284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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# DATA PACKAGE

## VOLATILE ORGANICS

**PROJECT NAME : USACE018-44 DOD**

**FIRST ENVIRONMENT, INC.**

**10 Park Place, Bldg 1A, Suite 504**

**Butler, NJ - 07405**

**Phone No: 973-334-0003**

**ORDER ID : Q2819**

**ATTENTION : Al Smith**

**Laboratory Certification ID # 20012**

Table Of Contents for Q2819


1) VOLATILES DATA 2

2) Signature Page 4

3) Case Narrative 5

4) Qualifier Page 7

5) Conformance/Non Conformance 8

6) QA Checklist 10

7) Chronicle 11

8) Hit Summary 13

9) QC Data Summary For VOC-TCLVOA-10 15

- 9.1) Deuterated Monitoring Compound Summary 16
- 9.2) LCS/LCSD Summary 19
- 9.3) Method Blank Summary 29
- 9.4) GS/MS Tune Summary 33
- 9.5) Internal Standard Area and RT Summary 38

10) Sample Data 46

- 10.1) 22BP-N 47
- 10.2) 22BP-E 61
- 10.3) 22BP-W 75
- 10.4) 22BP-S 89
- 10.5) 11M-W 103
- 10.6) 11M-S 116
- 10.7) 11M-N 129
- 10.8) 11M-E 158
- 10.9) 84SB-E 176
- 10.10) 84SB-S 190
- 10.11) 84SB-SRE 203
- 10.12) 84SB-W 212
- 10.13) 84SB-WRE 226
- 10.14) 17M-S 235
- 10.15) 17M-E 248
- 10.16) 17M-W 261
- 10.17) 17M-N 274
- 10.18) 38M-S 288
- 10.19) 38M-N 301
- 10.20) 38M-W 314

10.21) 38M-E 327
10.22) 82H-E 340
11) Calibration Data Summary 353
11.1) Initial Calibration Data 354
11.1.1) VW081125 354
11.1.2) VY081225 728
11.2) Continued Calibration Data 1103
11.2.1) VW032078.D 1103
11.2.2) VY023059.D 1163
11.2.3) VY023082.D 1223
11.2.4) VY023084.D 1283
11.2.5) VY023109.D 1343
11.2.6) VY023137.D 1403
11.2.7) VY023160.D 1463
12) QC Sample Data 1523
12.1) Tune Raw Data 1524
12.2) Method Blank Data 1529
12.3) LCS Data 1581
12.4) LCSD Data 1801
13) Manual Integration 1856
14) Analytical Runlogs 1861
15) Percent Solid 1879
16) Standard Prep Logs 1886
17) VOC Preservation Log 2012
18) Shipping Document 2014
18.1) Chain Of Custody 2015
18.2) Lab Certificate 2017
18.3) Internal COC 2018
19) Not Reviewed Data 2021

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# Cover Page

**Order ID :** Q2819

**Project ID :** USACE018-44 DOD

**Client :** First Environment, Inc.

| Lab Sample Number | Client Sample Number |
|---|---|
| Q2819-01 | 22BP-N |
| Q2819-02 | 22BP-E |
| Q2819-03 | 22BP-W |
| Q2819-04 | 22BP-S |
| Q2819-05 | 11M-W |
| Q2819-06 | 11M-S |
| Q2819-07 | 11M-N |
| Q2819-08 | 11M-E |
| Q2819-09 | 84SB-E |
| Q2819-10 | 84SB-S |
| Q2819-11 | 84SB-W |
| Q2819-12 | 17M-S |
| Q2819-13 | 17M-E |
| Q2819-14 | 17M-W |
| Q2819-15 | 17M-N |
| Q2819-16 | 38M-S |
| Q2819-17 | 38M-N |
| Q2819-18 | 38M-W |
| Q2819-19 | 38M-E |
| Q2819-20 | 82H-E |

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : APPROVED
*By Nimisha Pandya, QA/QC Supervisor at 12:52 pm, Aug 22, 2025*

Date: 8/21/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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# CASE NARRATIVE

**First Environment, Inc.**
**Project Name: USACE018-44 DOD**
**Project # N/A**
**Order ID # Q2819**
**Test Name: VOC-TCLVOA-10**

**A. Number of Samples and Date of Receipt:**
20 Solid samples were received on 08/08/2025.

**B. Parameters**
According to the Chain of Custody document, the following analyses were requested: VOC-TCLVOA-10. This data package contains results for VOC-TCLVOA-10.

**C. Analytical Techniques:**
The analysis performed on instrument MSVOA_W were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868.The analysis performed on instrument MSVOA_Y were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868.The analysis of VOC-TCLVOA-10 was based on method 8260D.

**D. QA/ QC Samples:**
The Holding Times were met for all analysis.
The Surrogate recoveries were met for all analysis except for
84SB-S [4-Bromofluorobenzene - 78%],
84SB-SRE [4-Bromofluorobenzene - 70%],
84SB-W [4-Bromofluorobenzene - 76%] and
84SB-WRE [4-Bromofluorobenzene - 50%]
Samples were reanalyzed to confirm the failure and reported.

The Internal Standards Areas were met for all analysis except for 84SB-W, 84SB-WRE sample was reanalyzed to confirm the failure and reported.
The Retention Times were met for all analysis.

The RPD were met for all analysis.
The Blank Spike met requirements for all compounds.
The Blank Spike Duplicate met requirements for all compounds.
The Blank analysis did not indicate the presence of lab contamination.

The %RSD is greater than 20% in the Initial Calibration method (82Y081225S.M) for Methylene chloride passing on Linear regression.

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The Continuous Calibration File ID VY023084.D met the requirements except for Chloroethane is failing high but no positive hit in associate sample therefore no corrective action taken.

The Tuning criteria met requirements.

**E. Additional Comments:**
The Sample #11M-E and 17M-N have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

Trip Blank was not provided with this set of samples.
The not QT review data is reported in the Miscellaneous.

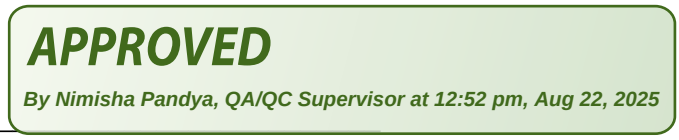
The soil samples results are based on a dry weight basis.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

**F. Manual Integration Comments:**
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

---

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature 

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# DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

| | |
|---|---|
| Value | If the result is a value greater than or equal to the detection limit, report the value |
| **U** | Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required. |
| **ND** | Indicates the analyte was analyzed for, but not detected |
| **J** | Indicates an estimated value. This flag is used:<br>(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)<br>(2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others. |
| **B** | Indicates the analyte was found in the blank as well as the sample report as "12 B". |
| **E** | Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis. |
| **D** | This flag identifies all compounds identified in an analysis at a secondary dilution factor. |
| **P** | This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P". |
| **N** | This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used. |
| **A** | This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product. |
| **Q** | Indicates the LCS did not meet the control limits requirements |

## GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDER ID: Q2819 MATRIX: Solid

METHOD: 8260D

| | | NA | NO | YES |
|---|---|---|---|---|
| 1. | Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks) | | | ✓ |
| 2. | GC/MS Tuning Specifications<br>BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ) | | | ✓ |
| 3. | GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series. | | | ✓ |
| 4. | GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series. | | | ✓ |
| 5. | GC/MS Calibration Requirements.<br>The %RSD is greater than 20% in the Initial Calibration method (82Y081225S.M) for Methylene chloride passing on Linear regression.<br>The Continuous Calibration File ID VY023084.D met the requirements except for Chloroethane is failing high but no positive hit in associate sample therefore no corrective action taken. | | | ✓ |
| 6. | Blank Contamination - If yes, list compounds and concentrations in each blank: | | ✓ | |
| 7. | Surrogate Recoveries Meet Criteria<br>If not met, list those compounds and their recoveries which fall outside the acceptable ranges.<br>The Surrogate recoveries were met for all analysis except for<br>84SB-S [4-Bromofluorobenzene - 78%],<br>84SB-SRE [4-Bromofluorobenzene - 70%],<br>84SB-W [4-Bromofluorobenzene - 76%] and<br>84SB-WRE [4-Bromofluorobenzene - 50%]<br>samples were reanalyzed to confirm the failure and reported. | | ✓ | |
| 8. | Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria<br>If not met, list those compounds and their recoveries which fall outside the acceptable range. | | | ✓ |
| 9. | Internal Standard Area/Retention Time Shift Meet Criteria<br>Comments: The Internal Standards Areas were met for all analysis except for 84SB-W, 84SB-WRE sample was reanalyzed to confirm the failure and reported. | | ✓ | |
| 10. | Analysis Holding Time Met<br>If not met, list number of days exceeded for each sample: | | | ✓ |

## GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

NA NO YES

ADDITIONAL COMMENTS:

The Sample #11M-E and 17M-N have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

Trip Blank was not provided with this set of samples.

The not QT review data is reported in the Miscellaneous.

The soil samples results are based on a dry weight basis.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

QA REVIEW

REVIEWED
Sohil Jodhani, QA/QC Director , 8/22/2025, 12:20:19 PM

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## APPENDIX A

## QA REVIEW GENERAL DOCUMENTATION

**Project #:** Q2819

| | Completed |
|---|---|
| **For thorough review, the report must have the following:** | |
| **GENERAL:** | |
| **Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)** | ✓ |
| **Check chain-of-custody for proper relinquish/return of samples** | ✓ |
| **Is the chain of custody signed and complete** | ✓ |
| **Check internal chain-of-custody for proper relinquish/return of samples /sample extracts** | ✓ |
| **Collect information for each project id from server. Were all requirements followed** | ✓ |
| **COVER PAGE:** | |
| **Do numbers of samples correspond to the number of samples in the Chain of Custody on login page** | ✓ |
| **Do lab numbers and client Ids on cover page agree with the Chain of Custody** | ✓ |
| **CHAIN OF CUSTODY:** | |
| **Do requested analyses on Chain of Custody agree with form I results** | ✓ |
| **Do requested analyses on Chain of Custody agree with the log-in page** | ✓ |
| **Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody** | ✓ |
| **Were the samples received within hold time** | ✓ |
| **Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle** | ✓ |
| **ANALYTICAL:** | |
| **Was method requirement followed?** | ✓ |
| **Was client requirement followed?** | ✓ |
| **Does the case narrative summarize all QC failure?** | ✓ |
| **All runlogs and manual integration are reviewed for requirements** | ✓ |
| **All manual calculations and /or hand notations verified** | ✓ |

**QA Review Signature:** SOHIL JODHANI **Date:** 08/21/2025

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q2819 | **OrderDate:** | 8/11/2025 12:06:00 PM |
| **Client:** | First Environment, Inc. | **Project:** | USACE018-44 DOD |
| **Contact:** | Al Smith | **Location:** | D31,VOA Ref. #2 Soil |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q2819-01** | **22BP-N** | **SOIL** | | | **08/04/25** | | | **08/08/25** |
| | | | VOC-TCLVOA-10 | 8260D | | | 08/11/25 | |
| **Q2819-02** | **22BP-E** | **SOIL** | | | **08/04/25** | | | **08/08/25** |
| | | | VOC-TCLVOA-10 | 8260D | | | 08/11/25 | |
| **Q2819-03** | **22BP-W** | **SOIL** | | | **08/04/25** | | | **08/08/25** |
| | | | VOC-TCLVOA-10 | 8260D | | | 08/11/25 | |
| **Q2819-04** | **22BP-S** | **SOIL** | | | **08/04/25** | | | **08/08/25** |
| | | | VOC-TCLVOA-10 | 8260D | | | 08/11/25 | |
| **Q2819-05** | **11M-W** | **SOIL** | | | **08/05/25** | | | **08/08/25** |
| | | | VOC-TCLVOA-10 | 8260D | | | 08/11/25 | |
| **Q2819-06** | **11M-S** | **SOIL** | | | **08/05/25** | | | **08/08/25** |
| | | | VOC-TCLVOA-10 | 8260D | | | 08/11/25 | |
| **Q2819-07** | **11M-N** | **SOIL** | | | **08/05/25** | | | **08/08/25** |
| | | | VOC-TCLVOA-10 | 8260D | | | 08/13/25 | |
| **Q2819-08** | **11M-E** | **SOIL** | | | **08/05/25** | | | **08/08/25** |
| | | | VOC-TCLVOA-10 | 8260D | | | 08/13/25 | |
| **Q2819-09** | **84SB-E** | **SOIL** | | | **08/05/25** | | | **08/08/25** |
| | | | VOC-TCLVOA-10 | 8260D | | | 08/13/25 | |
| **Q2819-10** | **84SB-S** | **SOIL** | | | **08/05/25** | | | **08/08/25** |
| | | | VOC-TCLVOA-10 | 8260D | | | 08/13/25 | |
| **Q2819-10RE** | **84SB-SRE** | **SOIL** | | | **08/05/25** | | | **08/08/25** |
| | | | VOC-TCLVOA-10 | 8260D | | | 08/14/25 | |
| **Q2819-11** | **84SB-W** | **SOIL** | | | **08/05/25** | | | **08/08/25** |

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## LAB CHRONICLE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | VOC-TCLVOA-10 | 8260D | | 08/13/25 | |
| **Q2819-11RE** | **84SB-WRE** | **SOIL** | | | **08/05/25** | | **08/08/25** |
| | | | VOC-TCLVOA-10 | 8260D | | 08/14/25 | |
| **Q2819-12** | **17M-S** | **SOIL** | | | **08/05/25** | | **08/08/25** |
| | | | VOC-TCLVOA-10 | 8260D | | 08/13/25 | |
| **Q2819-13** | **17M-E** | **SOIL** | | | **08/05/25** | | **08/08/25** |
| | | | VOC-TCLVOA-10 | 8260D | | 08/13/25 | |
| **Q2819-14** | **17M-W** | **SOIL** | | | **08/05/25** | | **08/08/25** |
| | | | VOC-TCLVOA-10 | 8260D | | 08/13/25 | |
| **Q2819-15** | **17M-N** | **SOIL** | | | **08/05/25** | | **08/08/25** |
| | | | VOC-TCLVOA-10 | 8260D | | 08/14/25 | |
| **Q2819-16** | **38M-S** | **SOIL** | | | **08/06/25** | | **08/08/25** |
| | | | VOC-TCLVOA-10 | 8260D | | 08/14/25 | |
| **Q2819-17** | **38M-N** | **SOIL** | | | **08/06/25** | | **08/08/25** |
| | | | VOC-TCLVOA-10 | 8260D | | 08/13/25 | |
| **Q2819-18** | **38M-W** | **SOIL** | | | **08/06/25** | | **08/08/25** |
| | | | VOC-TCLVOA-10 | 8260D | | 08/13/25 | |
| **Q2819-19** | **38M-E** | **SOIL** | | | **08/06/25** | | **08/08/25** |
| | | | VOC-TCLVOA-10 | 8260D | | 08/13/25 | |
| **Q2819-20** | **82H-E** | **SOIL** | | | **08/06/25** | | **08/08/25** |
| | | | VOC-TCLVOA-10 | 8260D | | 08/19/25 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q2819

**Client:** First Environment, Inc.

| Sample ID | Client ID | Matrix | Parameter | | Concentration | C | MDL | LOD | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|
| **Client ID:** | **22BP-N** | | | | | | | | | |
| Q2819-01 | 22BP-N | SOIL | Acetone | | 5.40 | J | 3.40 | 14.2 | 17.7 | ug/Kg |
| Q2819-01 | 22BP-N | SOIL | Methylene Chloride | | 5.70 | J | 2.50 | 5.70 | 7.10 | ug/Kg |
| | | | **Total Voc :** | | 11.1 | | | | | |
| | | | **Total Concentration:** | | 11.1 | | | | | |
| **Client ID:** | **22BP-E** | | | | | | | | | |
| Q2819-02 | 22BP-E | SOIL | Acetone | | 8.00 | J | 3.80 | 16.0 | 20.0 | ug/Kg |
| | | | **Total Voc :** | | 8.00 | | | | | |
| | | | **Total Concentration:** | | 8.00 | | | | | |
| **Client ID:** | **22BP-W** | | | | | | | | | |
| Q2819-03 | 22BP-W | SOIL | Carbon Disulfide | | 1.30 | J | 0.82 | 3.10 | 3.90 | ug/Kg |
| | | | **Total Voc :** | | 1.30 | | | | | |
| | | | **Total Concentration:** | | 1.30 | | | | | |
| **Client ID:** | **22BP-S** | | | | | | | | | |
| Q2819-04 | 22BP-S | SOIL | Carbon Disulfide | | 1.50 | J | 1.10 | 4.00 | 5.00 | ug/Kg |
| | | | **Total Voc :** | | 1.50 | | | | | |
| | | | **Total Concentration:** | | 1.50 | | | | | |
| **Client ID:** | **11M-N** | | | | | | | | | |
| Q2819-07 | 11M-N | SOIL | Acetone | | 51.1 | | 4.90 | 20.8 | 26.1 | ug/Kg |
| Q2819-07 | 11M-N | SOIL | Carbon Disulfide | | 1.60 | J | 1.10 | 4.20 | 5.20 | ug/Kg |
| Q2819-07 | 11M-N | SOIL | 2-Butanone | | 13.1 | J | 6.80 | 20.8 | 26.1 | ug/Kg |
| Q2819-07 | 11M-N | SOIL | Toluene | | 6.30 | | 0.81 | 2.60 | 5.20 | ug/Kg |
| Q2819-07 | 11M-N | SOIL | Ethyl Benzene | | 54.8 | | 0.70 | 2.60 | 5.20 | ug/Kg |
| Q2819-07 | 11M-N | SOIL | m/p-Xylenes | | 190 | | 1.30 | 5.20 | 10.4 | ug/Kg |
| Q2819-07 | 11M-N | SOIL | o-Xylene | | 85.7 | | 0.85 | 2.60 | 5.20 | ug/Kg |
| Q2819-07 | 11M-N | SOIL | Isopropylbenzene | | 89.9 | | 0.81 | 2.60 | 5.20 | ug/Kg |
| | | | **Total Voc :** | | 493 | | | | | |
| Q2819-07 | 11M-N | SOIL | Naphthalene, 1-methyl- | * | 2400 | J | 0 | | 0 | ug/Kg |
| Q2819-07 | 11M-N | SOIL | 2-Propenal, 3-phenyl- | * | 380 | J | 0 | | 0 | ug/Kg |
| Q2819-07 | 11M-N | SOIL | Benzo[c]thiophene | * | 470 | J | 0 | | 0 | ug/Kg |
| Q2819-07 | 11M-N | SOIL | Benzene, 1-ethyl-3-methyl- | * | 220 | J | 0 | | 0 | ug/Kg |
| Q2819-07 | 11M-N | SOIL | Benzene, 1-ethenyl-4-methyl- | * | 3500 | J | 0 | | 0 | ug/Kg |
| Q2819-07 | 11M-N | SOIL | Benzene, 2-ethenyl-1,4-dimeth | * | 200 | J | 0 | | 0 | ug/Kg |
| Q2819-07 | 11M-N | SOIL | 1H-Indene, 1-ethylidene- | * | 1100 | J | 0 | | 0 | ug/Kg |
| Q2819-07 | 11M-N | SOIL | Benzene, 1-ethenyl-4-ethyl- | * | 310 | J | 0 | | 0 | ug/Kg |
| Q2819-07 | 11M-N | SOIL | Benzene, 1-ethenyl-3-ethyl- | * | 130 | J | 0 | | 0 | ug/Kg |
| Q2819-07 | 11M-N | SOIL | n-propylbenzene | * | 11.2 | J | 0.76 | | 5.20 | ug/Kg |
| Q2819-07 | 11M-N | SOIL | 1,3,5-Trimethylbenzene | * | 150 | J | 0.85 | | 5.20 | ug/Kg |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q2819

**Client:** First Environment, Inc.

| Sample ID | Client ID | Matrix | Parameter | | Concentration | C | MDL | LOD | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|---|
| Q2819-07 | 11M-N | SOIL | 1,2,4-Trimethylbenzene | * | 410 | J | 0.67 | | 5.20 | ug/Kg |
| Q2819-07 | 11M-N | SOIL | p-Isopropyltoluene | * | 51.8 | J | 0.65 | | 5.20 | ug/Kg |
| Q2819-07 | 11M-N | SOIL | n-Butylbenzene | * | 2.40 | J | 1.50 | | 5.20 | ug/Kg |
| | | | **Total Tics :** | | 9340 | | | | | |
| | | | **Total Concentration:** | | 9830 | | | | | |
| **Client ID:** | **11M-E** | | | | | | | | | |
| Q2819-08 | 11M-E | SOIL | Acetone | | 20.7 | J | 6.00 | 25.5 | 31.8 | ug/Kg |
| | | | **Total Voc :** | | 20.7 | | | | | |
| Q2819-08 | 11M-E | SOIL | Naphthalene, 1-methyl- | * | 22.3 | J | 0 | | 0 | ug/Kg |
| Q2819-08 | 11M-E | SOIL | Naphthalene, 1,7-dimethyl- | * | 54.6 | J | 0 | | 0 | ug/Kg |
| Q2819-08 | 11M-E | SOIL | Naphthalene, 1,6-dimethyl- | * | 100 | J | 0 | | 0 | ug/Kg |
| Q2819-08 | 11M-E | SOIL | Naphthalene, 2,6-dimethyl- | * | 24.9 | J | 0 | | 0 | ug/Kg |
| Q2819-08 | 11M-E | SOIL | 1,1-Biphenyl, 4-methyl- | * | 14.8 | J | 0 | | 0 | ug/Kg |
| | | | **Total Tics :** | | 217 | | | | | |
| | | | **Total Concentration:** | | 237 | | | | | |
| **Client ID:** | **84SB-E** | | | | | | | | | |
| Q2819-09 | 84SB-E | SOIL | Carbon Disulfide | | 3.20 | J | 3.20 | 12.1 | 15.1 | ug/Kg |
| | | | **Total Voc :** | | 3.20 | | | | | |
| Q2819-09 | 84SB-E | SOIL | Naphthalene, 1-methyl- | * | 17.9 | J | 0 | | 0 | ug/Kg |
| | | | **Total Tics :** | | 17.9 | | | | | |
| | | | **Total Concentration:** | | 21.1 | | | | | |
| **Client ID:** | **84SB-W** | | | | | | | | | |
| Q2819-11 | 84SB-W | SOIL | Naphthalene, 1-methyl- | * | 7.40 | J | 0 | | 0 | ug/Kg |
| Q2819-11 | 84SB-W | SOIL | 3-Cyclohexyl-1-methyl-1-(2-ph | * | 5.70 | J | 0 | | 0 | ug/Kg |
| | | | **Total Tics :** | | 13.1 | | | | | |
| | | | **Total Concentration:** | | 13.1 | | | | | |

# QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

## Surrogate Summary

**SDG No.:** Q2819

**Client:** First Environment, Inc.

**Analytical Method:** SW8260D

| Lab Sample ID | Client ID | Parameter | Spike | Result | Recovery (%) | Qual | Limits (%) Low | High |
|---|---|---|---|---|---|---|---|---|
| Q2819-01 | 22BP-N | 1,2-Dichloroethane-d4 | 50 | 52.0 | 104 | | 71 | 136 |
| | | Dibromofluoromethane | 50 | 51.3 | 103 | | 78 | 119 |
| | | Toluene-d8 | 50 | 50.5 | 101 | | 85 | 116 |
| | | 4-Bromofluorobenzene | 50 | 48.4 | 97 | | 79 | 119 |
| Q2819-02 | 22BP-E | 1,2-Dichloroethane-d4 | 50 | 56.9 | 114 | | 71 | 136 |
| | | Dibromofluoromethane | 50 | 51.1 | 102 | | 78 | 119 |
| | | Toluene-d8 | 50 | 50.6 | 101 | | 85 | 116 |
| | | 4-Bromofluorobenzene | 50 | 54.6 | 109 | | 79 | 119 |
| Q2819-03 | 22BP-W | 1,2-Dichloroethane-d4 | 50 | 56.6 | 113 | | 71 | 136 |
| | | Dibromofluoromethane | 50 | 52.9 | 106 | | 78 | 119 |
| | | Toluene-d8 | 50 | 49.7 | 99 | | 85 | 116 |
| | | 4-Bromofluorobenzene | 50 | 51.4 | 103 | | 79 | 119 |
| Q2819-04 | 22BP-S | 1,2-Dichloroethane-d4 | 50 | 54.0 | 108 | | 71 | 136 |
| | | Dibromofluoromethane | 50 | 50.2 | 100 | | 78 | 119 |
| | | Toluene-d8 | 50 | 49.6 | 99 | | 85 | 116 |
| | | 4-Bromofluorobenzene | 50 | 51.6 | 103 | | 79 | 119 |
| Q2819-05 | 11M-W | 1,2-Dichloroethane-d4 | 50 | 59.2 | 118 | | 71 | 136 |
| | | Dibromofluoromethane | 50 | 54.3 | 109 | | 78 | 119 |
| | | Toluene-d8 | 50 | 52.7 | 105 | | 85 | 116 |
| | | 4-Bromofluorobenzene | 50 | 57.4 | 115 | | 79 | 119 |
| Q2819-06 | 11M-S | 1,2-Dichloroethane-d4 | 50 | 53.2 | 106 | | 71 | 136 |
| | | Dibromofluoromethane | 50 | 52.2 | 104 | | 78 | 119 |
| | | Toluene-d8 | 50 | 50.3 | 101 | | 85 | 116 |
| | | 4-Bromofluorobenzene | 50 | 51.3 | 102 | | 79 | 119 |
| Q2819-07 | 11M-N | 1,2-Dichloroethane-d4 | 50 | 66.6 | 133 | | 71 | 136 |
| | | Dibromofluoromethane | 50 | 55.2 | 110 | | 78 | 119 |
| | | Toluene-d8 | 50 | 51.4 | 103 | | 85 | 116 |
| | | 4-Bromofluorobenzene | 50 | 50.4 | 101 | | 79 | 119 |
| Q2819-08 | 11M-E | 1,2-Dichloroethane-d4 | 50 | 62.9 | 126 | | 71 | 136 |
| | | Dibromofluoromethane | 50 | 53.6 | 107 | | 78 | 119 |
| | | Toluene-d8 | 50 | 51.3 | 103 | | 85 | 116 |
| | | 4-Bromofluorobenzene | 50 | 44.9 | 90 | | 79 | 119 |
| Q2819-09 | 84SB-E | 1,2-Dichloroethane-d4 | 50 | 66.0 | 132 | | 71 | 136 |
| | | Dibromofluoromethane | 50 | 54.2 | 108 | | 78 | 119 |
| | | Toluene-d8 | 50 | 51.6 | 103 | | 85 | 116 |
| | | 4-Bromofluorobenzene | 50 | 43.8 | 88 | | 79 | 119 |
| Q2819-10 | 84SB-S | 1,2-Dichloroethane-d4 | 50 | 59.0 | 118 | | 71 | 136 |
| | | Dibromofluoromethane | 50 | 53.4 | 107 | | 78 | 119 |
| | | Toluene-d8 | 50 | 51.6 | 103 | | 85 | 116 |
| | | 4-Bromofluorobenzene | 50 | 38.9 | 78 | * | 79 | 119 |
| Q2819-10RE | 84SB-SRE | 1,2-Dichloroethane-d4 | 50 | 61.1 | 122 | | 71 | 136 |
| | | Dibromofluoromethane | 50 | 54.8 | 110 | | 78 | 119 |
| | | Toluene-d8 | 50 | 52.3 | 105 | | 85 | 116 |
| | | 4-Bromofluorobenzene | 50 | 35.0 | 70 | * | 79 | 119 |
| Q2819-11 | 84SB-W | 1,2-Dichloroethane-d4 | 50 | 53.1 | 106 | | 71 | 136 |
| | | Dibromofluoromethane | 50 | 54.4 | 109 | | 78 | 119 |
| | | Toluene-d8 | 50 | 49.1 | 98 | | 85 | 116 |
| | | 4-Bromofluorobenzene | 50 | 37.8 | 76 | * | 79 | 119 |
| Q2819-11RE | 84SB-WRE | 1,2-Dichloroethane-d4 | 50 | 38.6 | 77 | | 71 | 136 |
| | | Dibromofluoromethane | 50 | 52.7 | 105 | | 78 | 119 |

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## Surrogate Summary

**SDG No.:** Q2819

**Client:** First Environment, Inc.

**Analytical Method:** SW8260D

| Lab Sample ID | Client ID | Parameter | Spike | Result | Recovery (%) | Qual | Limits (%) Low | High |
|---|---|---|---|---|---|---|---|---|
| Q2819-11RE | 84SB-WRE | Toluene-d8 | 50 | 46.4 | 93 | | 85 | 116 |
| | | 4-Bromofluorobenzene | 50 | 24.8 | 50 | * | 79 | 119 |
| Q2819-12 | 17M-S | 1,2-Dichloroethane-d4 | 50 | 62.1 | 124 | | 71 | 136 |
| | | Dibromofluoromethane | 50 | 53.7 | 107 | | 78 | 119 |
| | | Toluene-d8 | 50 | 52.3 | 105 | | 85 | 116 |
| | | 4-Bromofluorobenzene | 50 | 48.5 | 97 | | 79 | 119 |
| Q2819-13 | 17M-E | 1,2-Dichloroethane-d4 | 50 | 62.5 | 125 | | 71 | 136 |
| | | Dibromofluoromethane | 50 | 53.4 | 107 | | 78 | 119 |
| | | Toluene-d8 | 50 | 51.9 | 104 | | 85 | 116 |
| | | 4-Bromofluorobenzene | 50 | 49.1 | 98 | | 79 | 119 |
| Q2819-14 | 17M-W | 1,2-Dichloroethane-d4 | 50 | 50.9 | 102 | | 71 | 136 |
| | | Dibromofluoromethane | 50 | 50.5 | 101 | | 78 | 119 |
| | | Toluene-d8 | 50 | 51.7 | 103 | | 85 | 116 |
| | | 4-Bromofluorobenzene | 50 | 41.3 | 83 | | 79 | 119 |
| Q2819-15 | 17M-N | 1,2-Dichloroethane-d4 | 50 | 62.3 | 125 | | 71 | 136 |
| | | Dibromofluoromethane | 50 | 54.5 | 109 | | 78 | 119 |
| | | Toluene-d8 | 50 | 51.8 | 104 | | 85 | 116 |
| | | 4-Bromofluorobenzene | 50 | 47.0 | 94 | | 79 | 119 |
| Q2819-16 | 38M-S | 1,2-Dichloroethane-d4 | 50 | 62.3 | 125 | | 71 | 136 |
| | | Dibromofluoromethane | 50 | 53.9 | 108 | | 78 | 119 |
| | | Toluene-d8 | 50 | 51.4 | 103 | | 85 | 116 |
| | | 4-Bromofluorobenzene | 50 | 40.0 | 80 | | 79 | 119 |
| Q2819-17 | 38M-N | 1,2-Dichloroethane-d4 | 50 | 65.0 | 130 | | 71 | 136 |
| | | Dibromofluoromethane | 50 | 53.4 | 107 | | 78 | 119 |
| | | Toluene-d8 | 50 | 52.8 | 105 | | 85 | 116 |
| | | 4-Bromofluorobenzene | 50 | 49.9 | 100 | | 79 | 119 |
| Q2819-18 | 38M-W | 1,2-Dichloroethane-d4 | 50 | 61.8 | 124 | | 71 | 136 |
| | | Dibromofluoromethane | 50 | 53.3 | 107 | | 78 | 119 |
| | | Toluene-d8 | 50 | 52.8 | 106 | | 85 | 116 |
| | | 4-Bromofluorobenzene | 50 | 47.9 | 96 | | 79 | 119 |
| Q2819-19 | 38M-E | 1,2-Dichloroethane-d4 | 50 | 62.0 | 124 | | 71 | 136 |
| | | Dibromofluoromethane | 50 | 53.3 | 107 | | 78 | 119 |
| | | Toluene-d8 | 50 | 52.4 | 105 | | 85 | 116 |
| | | 4-Bromofluorobenzene | 50 | 45.6 | 91 | | 79 | 119 |
| Q2819-20 | 82H-E | 1,2-Dichloroethane-d4 | 50 | 54.7 | 109 | | 71 | 136 |
| | | Dibromofluoromethane | 50 | 52.7 | 105 | | 78 | 119 |
| | | Toluene-d8 | 50 | 50.5 | 101 | | 85 | 116 |
| | | 4-Bromofluorobenzene | 50 | 43.3 | 87 | | 79 | 119 |
| VW0811SBL01 | VW0811SBL01 | 1,2-Dichloroethane-d4 | 50 | 52.6 | 105 | | 71 | 136 |
| | | Dibromofluoromethane | 50 | 47.8 | 96 | | 78 | 119 |
| | | Toluene-d8 | 50 | 49.1 | 98 | | 85 | 116 |
| | | 4-Bromofluorobenzene | 50 | 47.4 | 95 | | 79 | 119 |
| VW0811SBS01 | VW0811SBS01 | 1,2-Dichloroethane-d4 | 50 | 50.8 | 102 | | 71 | 136 |
| | | Dibromofluoromethane | 50 | 48.9 | 98 | | 78 | 119 |
| | | Toluene-d8 | 50 | 49.8 | 100 | | 85 | 116 |
| | | 4-Bromofluorobenzene | 50 | 52.4 | 105 | | 79 | 119 |
| VW0811SBSD0 | VW0811SBSD01 | 1,2-Dichloroethane-d4 | 50 | 49.8 | 100 | | 71 | 136 |
| | | Dibromofluoromethane | 50 | 47.0 | 94 | | 78 | 119 |
| | | Toluene-d8 | 50 | 48.3 | 97 | | 85 | 116 |
| | | 4-Bromofluorobenzene | 50 | 49.8 | 100 | | 79 | 119 |

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## Surrogate Summary

**SDG No.:** Q2819

**Client:** First Environment, Inc.

**Analytical Method:** SW8260D

| Lab Sample ID | Client ID | Parameter | Spike | Result | Recovery (%) | Qual | Limits (%) Low | Limits (%) High |
|---|---|---|---|---|---|---|---|---|
| VY0813SBL01 | VY0813SBL01 | 1,2-Dichloroethane-d4 | 50 | 57.2 | 114 | | 71 | 136 |
| | | Dibromofluoromethane | 50 | 53.5 | 107 | | 78 | 119 |
| | | Toluene-d8 | 50 | 47.4 | 95 | | 85 | 116 |
| | | 4-Bromofluorobenzene | 50 | 47.2 | 94 | | 79 | 119 |
| VY0813SBS01 | VY0813SBS01 | 1,2-Dichloroethane-d4 | 50 | 50.3 | 101 | | 71 | 136 |
| | | Dibromofluoromethane | 50 | 49.4 | 99 | | 78 | 119 |
| | | Toluene-d8 | 50 | 50.0 | 100 | | 85 | 116 |
| | | 4-Bromofluorobenzene | 50 | 47.9 | 96 | | 79 | 119 |
| VY0814SBL01 | VY0814SBL01 | 1,2-Dichloroethane-d4 | 50 | 57.9 | 116 | | 71 | 136 |
| | | Dibromofluoromethane | 50 | 53.5 | 107 | | 78 | 119 |
| | | Toluene-d8 | 50 | 53.0 | 106 | | 85 | 116 |
| | | 4-Bromofluorobenzene | 50 | 45.1 | 90 | | 79 | 119 |
| VY0814SBS01 | VY0814SBS01 | 1,2-Dichloroethane-d4 | 50 | 50.3 | 101 | | 71 | 136 |
| | | Dibromofluoromethane | 50 | 50.1 | 100 | | 78 | 119 |
| | | Toluene-d8 | 50 | 50.9 | 102 | | 85 | 116 |
| | | 4-Bromofluorobenzene | 50 | 47.7 | 95 | | 79 | 119 |
| VY0819SBL01 | VY0819SBL01 | 1,2-Dichloroethane-d4 | 50 | 53.4 | 107 | | 71 | 136 |
| | | Dibromofluoromethane | 50 | 52.4 | 105 | | 78 | 119 |
| | | Toluene-d8 | 50 | 51.3 | 103 | | 85 | 116 |
| | | 4-Bromofluorobenzene | 50 | 49.5 | 99 | | 79 | 119 |
| VY0819SBS01 | VY0819SBS01 | 1,2-Dichloroethane-d4 | 50 | 47.4 | 95 | | 71 | 136 |
| | | Dibromofluoromethane | 50 | 48.6 | 97 | | 78 | 119 |
| | | Toluene-d8 | 50 | 49.6 | 99 | | 85 | 116 |
| | | 4-Bromofluorobenzene | 50 | 48.5 | 97 | | 79 | 119 |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2819 **Analytical Method:** SW8260D

**Client:** First Environment, Inc. **Datafile :** VW032061.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VW0811SBS01 | Dichlorodifluoromethane | 20 | 21.3 | ug/Kg | 106 | | | 29 | 149 | |
| | Chloromethane | 20 | 20.8 | ug/Kg | 104 | | | 50 | 136 | |
| | Vinyl chloride | 20 | 21.1 | ug/Kg | 106 | | | 56 | 135 | |
| | Bromomethane | 20 | 21.5 | ug/Kg | 108 | | | 53 | 143 | |
| | Chloroethane | 20 | 20.8 | ug/Kg | 104 | | | 59 | 139 | |
| | Trichlorofluoromethane | 20 | 17.6 | ug/Kg | 88 | | | 62 | 140 | |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 20.1 | ug/Kg | 101 | | | 66 | 136 | |
| | 1,1-Dichloroethene | 20 | 20.4 | ug/Kg | 102 | | | 70 | 131 | |
| | Acetone | 100 | 120 | ug/Kg | 120 | | | 36 | 164 | |
| | Carbon disulfide | 20 | 20.2 | ug/Kg | 101 | | | 63 | 132 | |
| | Methyl tert-butyl Ether | 20 | 21.9 | ug/Kg | 110 | | | 73 | 125 | |
| | Methyl Acetate | 20 | 21.7 | ug/Kg | 109 | | | 53 | 144 | |
| | Methylene Chloride | 20 | 21.4 | ug/Kg | 107 | | | 70 | 128 | |
| | trans-1,2-Dichloroethene | 20 | 20.7 | ug/Kg | 104 | | | 74 | 125 | |
| | 1,1-Dichloroethane | 20 | 21.0 | ug/Kg | 105 | | | 76 | 125 | |
| | Cyclohexane | 20 | 20.0 | ug/Kg | 100 | | | 67 | 131 | |
| | 2-Butanone | 100 | 110 | ug/Kg | 110 | | | 51 | 148 | |
| | Carbon Tetrachloride | 20 | 20.0 | ug/Kg | 100 | | | 70 | 135 | |
| | cis-1,2-Dichloroethene | 20 | 21.2 | ug/Kg | 106 | | | 77 | 123 | |
| | Bromochloromethane | 20 | 20.5 | ug/Kg | 103 | | | 78 | 125 | |
| | Chloroform | 20 | 21.1 | ug/Kg | 106 | | | 78 | 123 | |
| | 1,1,1-Trichloroethane | 20 | 20.7 | ug/Kg | 104 | | | 73 | 130 | |
| | Methylcyclohexane | 20 | 20.0 | ug/Kg | 100 | | | 66 | 133 | |
| | Benzene | 20 | 21.0 | ug/Kg | 105 | | | 77 | 121 | |
| | 1,2-Dichloroethane | 20 | 20.9 | ug/Kg | 104 | | | 73 | 128 | |
| | Trichloroethene | 20 | 20.2 | ug/Kg | 101 | | | 77 | 123 | |
| | 1,2-Dichloropropane | 20 | 21.0 | ug/Kg | 105 | | | 76 | 123 | |
| | Bromodichloromethane | 20 | 20.4 | ug/Kg | 102 | | | 75 | 127 | |
| | 4-Methyl-2-Pentanone | 100 | 110 | ug/Kg | 110 | | | 65 | 135 | |
| | Toluene | 20 | 21.0 | ug/Kg | 105 | | | 77 | 121 | |
| | t-1,3-Dichloropropene | 20 | 20.4 | ug/Kg | 102 | | | 71 | 130 | |
| | cis-1,3-Dichloropropene | 20 | 20.9 | ug/Kg | 104 | | | 74 | 126 | |
| | 1,1,2-Trichloroethane | 20 | 20.8 | ug/Kg | 104 | | | 78 | 121 | |
| | 2-Hexanone | 100 | 110 | ug/Kg | 110 | | | 53 | 145 | |
| | Dibromochloromethane | 20 | 20.6 | ug/Kg | 103 | | | 74 | 126 | |
| | 1,2-Dibromoethane | 20 | 21.2 | ug/Kg | 106 | | | 78 | 122 | |
| | Tetrachloroethene | 20 | 21.1 | ug/Kg | 106 | | | 73 | 128 | |
| | Chlorobenzene | 20 | 20.2 | ug/Kg | 101 | | | 79 | 120 | |
| | Ethyl Benzene | 20 | 20.1 | ug/Kg | 101 | | | 76 | 122 | |
| | m/p-Xylenes | 40 | 40.9 | ug/Kg | 102 | | | 77 | 124 | |
| | o-Xylene | 20 | 21.2 | ug/Kg | 106 | | | 77 | 123 | |
| | Styrene | 20 | 20.9 | ug/Kg | 104 | | | 76 | 124 | |
| | Bromoform | 20 | 19.6 | ug/Kg | 98 | | | 67 | 132 | |
| | Isopropylbenzene | 20 | 19.9 | ug/Kg | 100 | | | 68 | 134 | |
| | 1,1,2,2-Tetrachloroethane | 20 | 20.1 | ug/Kg | 101 | | | 70 | 124 | |
| | 1,3-Dichlorobenzene | 20 | 20.4 | ug/Kg | 102 | | | 77 | 121 | |
| | 1,4-Dichlorobenzene | 20 | 20.7 | ug/Kg | 104 | | | 75 | 120 | |
| | 1,2-Dichlorobenzene | 20 | 20.3 | ug/Kg | 102 | | | 78 | 121 | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

| | | | |
|---|---|---|---|
| **SDG No.:** | **Q2819** | **Analytical Method:** | **SW8260D** |
| **Client:** | **First Environment, Inc.** | **Datafile :** | VW032061.D |

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| **VW0811SBS01** | 1,2-Dibromo-3-Chloropropane | 20 | 20.1 | ug/Kg | 101 | | | 61 | 132 | |
| | 1,2,4-Trichlorobenzene | 20 | 19.5 | ug/Kg | 98 | | | 67 | 129 | |
| | 1,2,3-Trichlorobenzene | 20 | 21.4 | ug/Kg | 107 | | | 66 | 130 | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2819 **Analytical Method:** SW8260D

**Client:** First Environment, Inc. **Datafile :** VW032062.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VW0811SBSD01 | Dichlorodifluoromethane | 20 | 20.4 | ug/Kg | 102 | 4 | | 29 | 149 | 20 |
| | Chloromethane | 20 | 21.5 | ug/Kg | 108 | 4 | | 50 | 136 | 20 |
| | Vinyl chloride | 20 | 20.6 | ug/Kg | 103 | 3 | | 56 | 135 | 20 |
| | Bromomethane | 20 | 21.1 | ug/Kg | 106 | 2 | | 53 | 143 | 20 |
| | Chloroethane | 20 | 20.9 | ug/Kg | 104 | 0 | | 59 | 139 | 20 |
| | Trichlorofluoromethane | 20 | 20.7 | ug/Kg | 104 | 17 | | 62 | 140 | 20 |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 19.8 | ug/Kg | 99 | 2 | | 66 | 136 | 20 |
| | 1,1-Dichloroethene | 20 | 20.2 | ug/Kg | 101 | 1 | | 70 | 131 | 20 |
| | Acetone | 100 | 110 | ug/Kg | 110 | 9 | | 36 | 164 | 20 |
| | Carbon disulfide | 20 | 20.0 | ug/Kg | 100 | 1 | | 63 | 132 | 20 |
| | Methyl tert-butyl Ether | 20 | 21.8 | ug/Kg | 109 | 1 | | 73 | 125 | 20 |
| | Methyl Acetate | 20 | 21.5 | ug/Kg | 108 | 1 | | 53 | 144 | 20 |
| | Methylene Chloride | 20 | 21.6 | ug/Kg | 108 | 1 | | 70 | 128 | 20 |
| | trans-1,2-Dichloroethene | 20 | 20.5 | ug/Kg | 103 | 1 | | 74 | 125 | 20 |
| | 1,1-Dichloroethane | 20 | 20.5 | ug/Kg | 103 | 2 | | 76 | 125 | 20 |
| | Cyclohexane | 20 | 20.1 | ug/Kg | 101 | 1 | | 67 | 131 | 20 |
| | 2-Butanone | 100 | 110 | ug/Kg | 110 | 0 | | 51 | 148 | 20 |
| | Carbon Tetrachloride | 20 | 19.8 | ug/Kg | 99 | 1 | | 70 | 135 | 20 |
| | cis-1,2-Dichloroethene | 20 | 20.8 | ug/Kg | 104 | 2 | | 77 | 123 | 20 |
| | Bromochloromethane | 20 | 20.0 | ug/Kg | 100 | 3 | | 78 | 125 | 20 |
| | Chloroform | 20 | 21.0 | ug/Kg | 105 | 1 | | 78 | 123 | 20 |
| | 1,1,1-Trichloroethane | 20 | 20.4 | ug/Kg | 102 | 2 | | 73 | 130 | 20 |
| | Methylcyclohexane | 20 | 20.1 | ug/Kg | 101 | 1 | | 66 | 133 | 20 |
| | Benzene | 20 | 20.2 | ug/Kg | 101 | 4 | | 77 | 121 | 20 |
| | 1,2-Dichloroethane | 20 | 20.8 | ug/Kg | 104 | 0 | | 73 | 128 | 20 |
| | Trichloroethene | 20 | 20.1 | ug/Kg | 101 | 0 | | 77 | 123 | 20 |
| | 1,2-Dichloropropane | 20 | 20.1 | ug/Kg | 101 | 4 | | 76 | 123 | 20 |
| | Bromodichloromethane | 20 | 20.0 | ug/Kg | 100 | 2 | | 75 | 127 | 20 |
| | 4-Methyl-2-Pentanone | 100 | 100 | ug/Kg | 100 | 10 | | 65 | 135 | 20 |
| | Toluene | 20 | 20.5 | ug/Kg | 103 | 2 | | 77 | 121 | 20 |
| | t-1,3-Dichloropropene | 20 | 20.0 | ug/Kg | 100 | 2 | | 71 | 130 | 20 |
| | cis-1,3-Dichloropropene | 20 | 20.4 | ug/Kg | 102 | 2 | | 74 | 126 | 20 |
| | 1,1,2-Trichloroethane | 20 | 20.7 | ug/Kg | 104 | 0 | | 78 | 121 | 20 |
| | 2-Hexanone | 100 | 110 | ug/Kg | 110 | 0 | | 53 | 145 | 20 |
| | Dibromochloromethane | 20 | 20.1 | ug/Kg | 101 | 2 | | 74 | 126 | 20 |
| | 1,2-Dibromoethane | 20 | 20.7 | ug/Kg | 104 | 2 | | 78 | 122 | 20 |
| | Tetrachloroethene | 20 | 20.5 | ug/Kg | 103 | 3 | | 73 | 128 | 20 |
| | Chlorobenzene | 20 | 20.2 | ug/Kg | 101 | 0 | | 79 | 120 | 20 |
| | Ethyl Benzene | 20 | 20.5 | ug/Kg | 103 | 2 | | 76 | 122 | 20 |
| | m/p-Xylenes | 40 | 40.7 | ug/Kg | 102 | 0 | | 77 | 124 | 20 |
| | o-Xylene | 20 | 20.4 | ug/Kg | 102 | 4 | | 77 | 123 | 20 |
| | Styrene | 20 | 20.8 | ug/Kg | 104 | 0 | | 76 | 124 | 20 |
| | Bromoform | 20 | 20.2 | ug/Kg | 101 | 3 | | 67 | 132 | 20 |
| | Isopropylbenzene | 20 | 19.5 | ug/Kg | 98 | 2 | | 68 | 134 | 20 |
| | 1,1,2,2-Tetrachloroethane | 20 | 20.5 | ug/Kg | 103 | 2 | | 70 | 124 | 20 |
| | 1,3-Dichlorobenzene | 20 | 20.7 | ug/Kg | 104 | 2 | | 77 | 121 | 20 |
| | 1,4-Dichlorobenzene | 20 | 20.7 | ug/Kg | 104 | 0 | | 75 | 120 | 20 |
| | 1,2-Dichlorobenzene | 20 | 20.8 | ug/Kg | 104 | 2 | | 78 | 121 | 20 |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2819 **Analytical Method:** SW8260D

**Client:** First Environment, Inc. **Datafile :** VW032062.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VW0811SBSD01 | 1,2-Dibromo-3-Chloropropane | 20 | 19.6 | ug/Kg | 98 | 3 | | 61 | 132 | 20 |
| | 1,2,4-Trichlorobenzene | 20 | 20.4 | ug/Kg | 102 | 4 | | 67 | 129 | 20 |
| | 1,2,3-Trichlorobenzene | 20 | 20.6 | ug/Kg | 103 | 4 | | 66 | 130 | 20 |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2819 **Analytical Method:** SW8260D

**Client:** First Environment, Inc. **Datafile :** VY023061.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY0813SBS01 | Dichlorodifluoromethane | 20 | 22.1 | ug/Kg | 111 | | | 29 | 149 | |
| | Chloromethane | 20 | 23.7 | ug/Kg | 119 | | | 50 | 136 | |
| | Vinyl chloride | 20 | 23.6 | ug/Kg | 118 | | | 56 | 135 | |
| | Bromomethane | 20 | 23.9 | ug/Kg | 119 | | | 53 | 143 | |
| | Chloroethane | 20 | 23.2 | ug/Kg | 116 | | | 59 | 139 | |
| | Trichlorofluoromethane | 20 | 22.5 | ug/Kg | 113 | | | 62 | 140 | |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 21.5 | ug/Kg | 108 | | | 66 | 136 | |
| | 1,1-Dichloroethene | 20 | 21.5 | ug/Kg | 108 | | | 70 | 131 | |
| | Acetone | 100 | 100 | ug/Kg | 100 | | | 36 | 164 | |
| | Carbon disulfide | 20 | 21.7 | ug/Kg | 109 | | | 63 | 132 | |
| | Methyl tert-butyl Ether | 20 | 19.9 | ug/Kg | 100 | | | 73 | 125 | |
| | Methyl Acetate | 20 | 19.0 | ug/Kg | 95 | | | 53 | 144 | |
| | Methylene Chloride | 20 | 21.6 | ug/Kg | 108 | | | 70 | 128 | |
| | trans-1,2-Dichloroethene | 20 | 21.2 | ug/Kg | 106 | | | 74 | 125 | |
| | 1,1-Dichloroethane | 20 | 21.3 | ug/Kg | 106 | | | 76 | 125 | |
| | Cyclohexane | 20 | 20.5 | ug/Kg | 103 | | | 67 | 131 | |
| | 2-Butanone | 100 | 97.4 | ug/Kg | 97 | | | 51 | 148 | |
| | Carbon Tetrachloride | 20 | 20.7 | ug/Kg | 104 | | | 70 | 135 | |
| | cis-1,2-Dichloroethene | 20 | 21.1 | ug/Kg | 106 | | | 77 | 123 | |
| | Bromochloromethane | 20 | 20.8 | ug/Kg | 104 | | | 78 | 125 | |
| | Chloroform | 20 | 21.6 | ug/Kg | 108 | | | 78 | 123 | |
| | 1,1,1-Trichloroethane | 20 | 21.4 | ug/Kg | 107 | | | 73 | 130 | |
| | Methylcyclohexane | 20 | 20.3 | ug/Kg | 102 | | | 66 | 133 | |
| | Benzene | 20 | 21.0 | ug/Kg | 105 | | | 77 | 121 | |
| | 1,2-Dichloroethane | 20 | 20.7 | ug/Kg | 104 | | | 73 | 128 | |
| | Trichloroethene | 20 | 20.7 | ug/Kg | 104 | | | 77 | 123 | |
| | 1,2-Dichloropropane | 20 | 21.1 | ug/Kg | 106 | | | 76 | 123 | |
| | Bromodichloromethane | 20 | 20.9 | ug/Kg | 104 | | | 75 | 127 | |
| | 4-Methyl-2-Pentanone | 100 | 93.2 | ug/Kg | 93 | | | 65 | 135 | |
| | Toluene | 20 | 20.8 | ug/Kg | 104 | | | 77 | 121 | |
| | t-1,3-Dichloropropene | 20 | 19.6 | ug/Kg | 98 | | | 71 | 130 | |
| | cis-1,3-Dichloropropene | 20 | 20.3 | ug/Kg | 102 | | | 74 | 126 | |
| | 1,1,2-Trichloroethane | 20 | 19.6 | ug/Kg | 98 | | | 78 | 121 | |
| | 2-Hexanone | 100 | 93.0 | ug/Kg | 93 | | | 53 | 145 | |
| | Dibromochloromethane | 20 | 19.8 | ug/Kg | 99 | | | 74 | 126 | |
| | 1,2-Dibromoethane | 20 | 19.6 | ug/Kg | 98 | | | 78 | 122 | |
| | Tetrachloroethene | 20 | 22.2 | ug/Kg | 111 | | | 73 | 128 | |
| | Chlorobenzene | 20 | 20.4 | ug/Kg | 102 | | | 79 | 120 | |
| | Ethyl Benzene | 20 | 20.4 | ug/Kg | 102 | | | 76 | 122 | |
| | m/p-Xylenes | 40 | 40.8 | ug/Kg | 102 | | | 77 | 124 | |
| | o-Xylene | 20 | 20.1 | ug/Kg | 101 | | | 77 | 123 | |
| | Styrene | 20 | 20.2 | ug/Kg | 101 | | | 76 | 124 | |
| | Bromoform | 20 | 19.0 | ug/Kg | 95 | | | 67 | 132 | |
| | Isopropylbenzene | 20 | 21.0 | ug/Kg | 105 | | | 68 | 134 | |
| | 1,1,2,2-Tetrachloroethane | 20 | 18.3 | ug/Kg | 92 | | | 70 | 124 | |
| | 1,3-Dichlorobenzene | 20 | 20.4 | ug/Kg | 102 | | | 77 | 121 | |
| | 1,4-Dichlorobenzene | 20 | 20.5 | ug/Kg | 103 | | | 75 | 120 | |
| | 1,2-Dichlorobenzene | 20 | 20.3 | ug/Kg | 102 | | | 78 | 121 | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

| | | | |
|---|---|---|---|
| **SDG No.:** | **Q2819** | **Analytical Method:** | **SW8260D** |
| **Client:** | **First Environment, Inc.** | **Datafile :** | VY023061.D |

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| **VY0813SBS01** | 1,2-Dibromo-3-Chloropropane | 20 | 19.5 | ug/Kg | 98 | | | 61 | 132 | |
| | 1,2,4-Trichlorobenzene | 20 | 18.9 | ug/Kg | 95 | | | 67 | 129 | |
| | 1,2,3-Trichlorobenzene | 20 | 18.5 | ug/Kg | 93 | | | 66 | 130 | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2819 **Analytical Method:** SW8260D

**Client:** First Environment, Inc. **Datafile :** VY023086.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY0814SBS01 | Dichlorodifluoromethane | 20 | 20.0 | ug/Kg | 100 | | | 29 | 149 | |
| | Chloromethane | 20 | 23.1 | ug/Kg | 116 | | | 50 | 136 | |
| | Vinyl chloride | 20 | 23.1 | ug/Kg | 116 | | | 56 | 135 | |
| | Bromomethane | 20 | 23.3 | ug/Kg | 117 | | | 53 | 143 | |
| | Chloroethane | 20 | 23.5 | ug/Kg | 117 | | | 59 | 139 | |
| | Trichlorofluoromethane | 20 | 21.8 | ug/Kg | 109 | | | 62 | 140 | |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 20.9 | ug/Kg | 104 | | | 66 | 136 | |
| | 1,1-Dichloroethene | 20 | 20.0 | ug/Kg | 100 | | | 70 | 131 | |
| | Acetone | 100 | 94.2 | ug/Kg | 94 | | | 36 | 164 | |
| | Carbon disulfide | 20 | 20.6 | ug/Kg | 103 | | | 63 | 132 | |
| | Methyl tert-butyl Ether | 20 | 17.9 | ug/Kg | 90 | | | 73 | 125 | |
| | Methyl Acetate | 20 | 17.8 | ug/Kg | 89 | | | 53 | 144 | |
| | Methylene Chloride | 20 | 20.4 | ug/Kg | 102 | | | 70 | 128 | |
| | trans-1,2-Dichloroethene | 20 | 20.2 | ug/Kg | 101 | | | 74 | 125 | |
| | 1,1-Dichloroethane | 20 | 20.7 | ug/Kg | 104 | | | 76 | 125 | |
| | Cyclohexane | 20 | 19.4 | ug/Kg | 97 | | | 67 | 131 | |
| | 2-Butanone | 100 | 88.8 | ug/Kg | 89 | | | 51 | 148 | |
| | Carbon Tetrachloride | 20 | 20.1 | ug/Kg | 101 | | | 70 | 135 | |
| | cis-1,2-Dichloroethene | 20 | 20.1 | ug/Kg | 101 | | | 77 | 123 | |
| | Bromochloromethane | 20 | 20.3 | ug/Kg | 102 | | | 78 | 125 | |
| | Chloroform | 20 | 20.6 | ug/Kg | 103 | | | 78 | 123 | |
| | 1,1,1-Trichloroethane | 20 | 20.5 | ug/Kg | 103 | | | 73 | 130 | |
| | Methylcyclohexane | 20 | 18.7 | ug/Kg | 94 | | | 66 | 133 | |
| | Benzene | 20 | 20.3 | ug/Kg | 102 | | | 77 | 121 | |
| | 1,2-Dichloroethane | 20 | 20.0 | ug/Kg | 100 | | | 73 | 128 | |
| | Trichloroethene | 20 | 20.5 | ug/Kg | 103 | | | 77 | 123 | |
| | 1,2-Dichloropropane | 20 | 20.6 | ug/Kg | 103 | | | 76 | 123 | |
| | Bromodichloromethane | 20 | 20.0 | ug/Kg | 100 | | | 75 | 127 | |
| | 4-Methyl-2-Pentanone | 100 | 83.5 | ug/Kg | 84 | | | 65 | 135 | |
| | Toluene | 20 | 19.8 | ug/Kg | 99 | | | 77 | 121 | |
| | t-1,3-Dichloropropene | 20 | 18.5 | ug/Kg | 93 | | | 71 | 130 | |
| | cis-1,3-Dichloropropene | 20 | 19.4 | ug/Kg | 97 | | | 74 | 126 | |
| | 1,1,2-Trichloroethane | 20 | 18.7 | ug/Kg | 94 | | | 78 | 121 | |
| | 2-Hexanone | 100 | 81.9 | ug/Kg | 82 | | | 53 | 145 | |
| | Dibromochloromethane | 20 | 18.8 | ug/Kg | 94 | | | 74 | 126 | |
| | 1,2-Dibromoethane | 20 | 18.5 | ug/Kg | 93 | | | 78 | 122 | |
| | Tetrachloroethene | 20 | 21.5 | ug/Kg | 108 | | | 73 | 128 | |
| | Chlorobenzene | 20 | 19.7 | ug/Kg | 99 | | | 79 | 120 | |
| | Ethyl Benzene | 20 | 19.4 | ug/Kg | 97 | | | 76 | 122 | |
| | m/p-Xylenes | 40 | 38.9 | ug/Kg | 97 | | | 77 | 124 | |
| | o-Xylene | 20 | 19.0 | ug/Kg | 95 | | | 77 | 123 | |
| | Styrene | 20 | 19.2 | ug/Kg | 96 | | | 76 | 124 | |
| | Bromoform | 20 | 18.2 | ug/Kg | 91 | | | 67 | 132 | |
| | Isopropylbenzene | 20 | 19.3 | ug/Kg | 97 | | | 68 | 134 | |
| | 1,1,2,2-Tetrachloroethane | 20 | 17.2 | ug/Kg | 86 | | | 70 | 124 | |
| | 1,3-Dichlorobenzene | 20 | 19.5 | ug/Kg | 98 | | | 77 | 121 | |
| | 1,4-Dichlorobenzene | 20 | 19.6 | ug/Kg | 98 | | | 75 | 120 | |
| | 1,2-Dichlorobenzene | 20 | 19.2 | ug/Kg | 96 | | | 78 | 121 | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2819 **Analytical Method:** SW8260D

**Client:** First Environment, Inc. **Datafile :** VY023086.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY0814SBS01 | 1,2-Dibromo-3-Chloropropane | 20 | 17.0 | ug/Kg | 85 | | | 61 | 132 | |
| | 1,2,4-Trichlorobenzene | 20 | 17.6 | ug/Kg | 88 | | | 67 | 129 | |
| | 1,2,3-Trichlorobenzene | 20 | 17.3 | ug/Kg | 86 | | | 66 | 130 | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2819 **Analytical Method:** SW8260D

**Client:** First Environment, Inc. **Datafile :** VY023139.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY0819SBS01 | Dichlorodifluoromethane | 20 | 20.7 | ug/Kg | 104 | | | 29 | 149 | |
| | Chloromethane | 20 | 20.2 | ug/Kg | 101 | | | 50 | 136 | |
| | Vinyl chloride | 20 | 20.6 | ug/Kg | 103 | | | 56 | 135 | |
| | Bromomethane | 20 | 23.2 | ug/Kg | 116 | | | 53 | 143 | |
| | Chloroethane | 20 | 20.8 | ug/Kg | 104 | | | 59 | 139 | |
| | Trichlorofluoromethane | 20 | 20.0 | ug/Kg | 100 | | | 62 | 140 | |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 21.5 | ug/Kg | 108 | | | 66 | 136 | |
| | 1,1-Dichloroethene | 20 | 20.8 | ug/Kg | 104 | | | 70 | 131 | |
| | Acetone | 100 | 110 | ug/Kg | 110 | | | 36 | 164 | |
| | Carbon disulfide | 20 | 19.9 | ug/Kg | 100 | | | 63 | 132 | |
| | Methyl tert-butyl Ether | 20 | 19.7 | ug/Kg | 99 | | | 73 | 125 | |
| | Methyl Acetate | 20 | 17.4 | ug/Kg | 87 | | | 53 | 144 | |
| | Methylene Chloride | 20 | 18.9 | ug/Kg | 95 | | | 70 | 128 | |
| | trans-1,2-Dichloroethene | 20 | 21.0 | ug/Kg | 105 | | | 74 | 125 | |
| | 1,1-Dichloroethane | 20 | 20.0 | ug/Kg | 100 | | | 76 | 125 | |
| | Cyclohexane | 20 | 19.6 | ug/Kg | 98 | | | 67 | 131 | |
| | 2-Butanone | 100 | 100 | ug/Kg | 100 | | | 51 | 148 | |
| | Carbon Tetrachloride | 20 | 21.4 | ug/Kg | 107 | | | 70 | 135 | |
| | cis-1,2-Dichloroethene | 20 | 20.6 | ug/Kg | 103 | | | 77 | 123 | |
| | Bromochloromethane | 20 | 19.5 | ug/Kg | 98 | | | 78 | 125 | |
| | Chloroform | 20 | 20.7 | ug/Kg | 104 | | | 78 | 123 | |
| | 1,1,1-Trichloroethane | 20 | 20.8 | ug/Kg | 104 | | | 73 | 130 | |
| | Methylcyclohexane | 20 | 20.8 | ug/Kg | 104 | | | 66 | 133 | |
| | Benzene | 20 | 21.1 | ug/Kg | 106 | | | 77 | 121 | |
| | 1,2-Dichloroethane | 20 | 20.2 | ug/Kg | 101 | | | 73 | 128 | |
| | Trichloroethene | 20 | 21.2 | ug/Kg | 106 | | | 77 | 123 | |
| | 1,2-Dichloropropane | 20 | 20.5 | ug/Kg | 103 | | | 76 | 123 | |
| | Bromodichloromethane | 20 | 20.7 | ug/Kg | 104 | | | 75 | 127 | |
| | 4-Methyl-2-Pentanone | 100 | 93.7 | ug/Kg | 94 | | | 65 | 135 | |
| | Toluene | 20 | 21.0 | ug/Kg | 105 | | | 77 | 121 | |
| | t-1,3-Dichloropropene | 20 | 20.1 | ug/Kg | 101 | | | 71 | 130 | |
| | cis-1,3-Dichloropropene | 20 | 20.5 | ug/Kg | 103 | | | 74 | 126 | |
| | 1,1,2-Trichloroethane | 20 | 20.4 | ug/Kg | 102 | | | 78 | 121 | |
| | 2-Hexanone | 100 | 99.0 | ug/Kg | 99 | | | 53 | 145 | |
| | Dibromochloromethane | 20 | 20.6 | ug/Kg | 103 | | | 74 | 126 | |
| | 1,2-Dibromoethane | 20 | 20.3 | ug/Kg | 102 | | | 78 | 122 | |
| | Tetrachloroethene | 20 | 20.5 | ug/Kg | 103 | | | 73 | 128 | |
| | Chlorobenzene | 20 | 21.3 | ug/Kg | 106 | | | 79 | 120 | |
| | Ethyl Benzene | 20 | 20.8 | ug/Kg | 104 | | | 76 | 122 | |
| | m/p-Xylenes | 40 | 42.0 | ug/Kg | 105 | | | 77 | 124 | |
| | o-Xylene | 20 | 21.0 | ug/Kg | 105 | | | 77 | 123 | |
| | Styrene | 20 | 21.0 | ug/Kg | 105 | | | 76 | 124 | |
| | Bromoform | 20 | 20.5 | ug/Kg | 103 | | | 67 | 132 | |
| | Isopropylbenzene | 20 | 21.2 | ug/Kg | 106 | | | 68 | 134 | |
| | 1,1,2,2-Tetrachloroethane | 20 | 20.7 | ug/Kg | 104 | | | 70 | 124 | |
| | 1,3-Dichlorobenzene | 20 | 20.9 | ug/Kg | 104 | | | 77 | 121 | |
| | 1,4-Dichlorobenzene | 20 | 20.8 | ug/Kg | 104 | | | 75 | 120 | |
| | 1,2-Dichlorobenzene | 20 | 20.5 | ug/Kg | 103 | | | 78 | 121 | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

| | | | |
|---|---|---|---|
| **SDG No.:** | **Q2819** | **Analytical Method:** | **SW8260D** |
| **Client:** | **First Environment, Inc.** | **Datafile :** | VY023139.D |

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| **VY0819SBS01** | 1,2-Dibromo-3-Chloropropane | 20 | 19.5 | ug/Kg | 98 | | | 61 | 132 | |
| | 1,2,4-Trichlorobenzene | 20 | 20.2 | ug/Kg | 101 | | | 67 | 129 | |
| | 1,2,3-Trichlorobenzene | 20 | 20.1 | ug/Kg | 101 | | | 66 | 130 | |

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# VOLATILE METHOD BLANK SUMMARY

Client ID: VW0811SBL01

Lab Name: Alliance | Contract: FIRS02

Lab Code: ACE | SDG NO.: Q2819

Lab File ID: VW032060.D | Lab Sample ID: VW0811SBL01

Date Analyzed: 08/11/2025 | Time Analyzed: 12:18

GC Column: RXI-624 ID: 0.25 (mm) | Heated Purge: (Y/N) Y

Instrument ID: MSVOA_W

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| VW0811SBS01 | VW0811SBS01 | VW032061.D | 08/11/2025 |
| VW0811SBSD01 | VW0811SBSD01 | VW032062.D | 08/11/2025 |
| 22BP-N | Q2819-01 | VW032071.D | 08/11/2025 |
| 22BP-E | Q2819-02 | VW032072.D | 08/11/2025 |
| 22BP-W | Q2819-03 | VW032073.D | 08/11/2025 |
| 22BP-S | Q2819-04 | VW032074.D | 08/11/2025 |
| 11M-W | Q2819-05 | VW032075.D | 08/11/2025 |
| 11M-S | Q2819-06 | VW032076.D | 08/11/2025 |

COMMENTS:

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# VOLATILE METHOD BLANK SUMMARY

Client ID: VY0813SBL01

Lab Name: Alliance | Contract: FIRS02

Lab Code: ACE | SDG NO.: Q2819

Lab File ID: VY023060.D | Lab Sample ID: VY0813SBL01

Date Analyzed: 08/13/2025 | Time Analyzed: 10:39

GC Column: RXI-624 ID: 0.25 (mm) | Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| VY0813SBS01 | VY0813SBS01 | VY023061.D | 08/13/2025 |
| 11M-N | Q2819-07 | VY023069.D | 08/13/2025 |
| 11M-E | Q2819-08 | VY023070.D | 08/13/2025 |
| 84SB-E | Q2819-09 | VY023071.D | 08/13/2025 |
| 84SB-S | Q2819-10 | VY023072.D | 08/13/2025 |
| 84SB-W | Q2819-11 | VY023073.D | 08/13/2025 |
| 17M-S | Q2819-12 | VY023074.D | 08/13/2025 |
| 17M-E | Q2819-13 | VY023075.D | 08/13/2025 |
| 17M-W | Q2819-14 | VY023076.D | 08/13/2025 |
| 38M-N | Q2819-17 | VY023079.D | 08/13/2025 |
| 38M-W | Q2819-18 | VY023080.D | 08/13/2025 |
| 38M-E | Q2819-19 | VY023081.D | 08/13/2025 |

COMMENTS:

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# VOLATILE METHOD BLANK SUMMARY

Client ID: VY0814SBL01

Lab Name: Alliance | Contract: FIRS02

Lab Code: ACE | SDG NO.: Q2819

Lab File ID: VY023085.D | Lab Sample ID: VY0814SBL01

Date Analyzed: 08/14/2025 | Time Analyzed: 10:50

GC Column: RXI-624 ID: 0.25 (mm) | Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| VY0814SBS01 | VY0814SBS01 | VY023086.D | 08/14/2025 |
| 84SB-SRE | Q2819-10RE | VY023089.D | 08/14/2025 |
| 84SB-WRE | Q2819-11RE | VY023090.D | 08/14/2025 |
| 17M-N | Q2819-15 | VY023091.D | 08/14/2025 |
| 38M-S | Q2819-16 | VY023092.D | 08/14/2025 |

COMMENTS:

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# VOLATILE METHOD BLANK SUMMARY

Client ID: VY0819SBL01

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG NO.: Q2819

Lab File ID: VY023138.D Lab Sample ID: VY0819SBL01

Date Analyzed: 08/19/2025 Time Analyzed: 09:49

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| VY0819SBS01 | VY0819SBS01 | VY023139.D | 08/19/2025 |
| 82H-E | Q2819-20 | VY023144.D | 08/19/2025 |

COMMENTS:

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## VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: FIRS02
Lab Code: ACE
SDG NO.: Q2819
Lab File ID: VW032051.D
BFB Injection Date: 08/11/2025
Instrument ID: MSVOA_W
BFB Injection Time: 07:53
GC Column: RXI-624 ID: 0.25 (mm)
Heated Purge: Y/N Y

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 18.3 |
| 75 | 30.0 - 60.0% of mass 95 | 51.9 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.8 |
| 173 | Less than 2.0% of mass 174 | 0.0 ( 0.0 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 67.1 |
| 175 | 5.0 - 9.0% of mass 174 | 4.9 ( 7.3 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 64.2 ( 95.6 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.2 ( 6.5 ) 2 |

1-Value is % mass 174
2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| CLIENT ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDICC005 | VSTDICC005 | VW032052.D | 08/11/2025 | 08:25 |
| VSTDICC010 | VSTDICC010 | VW032053.D | 08/11/2025 | 09:09 |
| VSTDICC020 | VSTDICC020 | VW032054.D | 08/11/2025 | 09:47 |
| VSTDICCC050 | VSTDICCC050 | VW032055.D | 08/11/2025 | 10:09 |
| VSTDICC100 | VSTDICC100 | VW032056.D | 08/11/2025 | 10:46 |
| VSTDICC150 | VSTDICC150 | VW032057.D | 08/11/2025 | 11:08 |
| VW0811SBL01 | VW0811SBL01 | VW032060.D | 08/11/2025 | 12:18 |
| VW0811SBS01 | VW0811SBS01 | VW032061.D | 08/11/2025 | 12:48 |
| VW0811SBSD01 | VW0811SBSD01 | VW032062.D | 08/11/2025 | 13:10 |
| 22BP-N | Q2819-01 | VW032071.D | 08/11/2025 | 16:56 |
| 22BP-E | Q2819-02 | VW032072.D | 08/11/2025 | 17:18 |
| 22BP-W | Q2819-03 | VW032073.D | 08/11/2025 | 17:41 |
| 22BP-S | Q2819-04 | VW032074.D | 08/11/2025 | 18:03 |
| 11M-W | Q2819-05 | VW032075.D | 08/11/2025 | 18:25 |
| 11M-S | Q2819-06 | VW032076.D | 08/11/2025 | 18:47 |
| VSTDCCC050EC | VSTDCCC050 | VW032078.D | 08/11/2025 | 19:31 |

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# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: FIRS02
Lab Code: ACE
SDG NO.: Q2819
Lab File ID: VY023048.D
BFB Injection Date: 08/12/2025
Instrument ID: MSVOA_Y
BFB Injection Time: 08:26
GC Column: RXI-624 ID: 0.25 (mm)
Heated Purge: Y/N Y

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 19.2 |
| 75 | 30.0 - 60.0% of mass 95 | 51.9 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.8 |
| 173 | Less than 2.0% of mass 174 | 0.9 ( 1.1 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 83.2 |
| 175 | 5.0 - 9.0% of mass 174 | 6.3 ( 7.6 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 80.9 ( 97.2 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.1 ( 6.4 ) 2 |

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| CLIENT ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDICC005 | VSTDICC005 | VY023050.D | 08/12/2025 | 14:54 |
| VSTDICC010 | VSTDICC010 | VY023051.D | 08/12/2025 | 15:17 |
| VSTDICC020 | VSTDICC020 | VY023052.D | 08/12/2025 | 15:40 |
| VSTDICCC050 | VSTDICCC050 | VY023053.D | 08/12/2025 | 16:02 |
| VSTDICC100 | VSTDICC100 | VY023054.D | 08/12/2025 | 16:25 |
| VSTDICC150 | VSTDICC150 | VY023055.D | 08/12/2025 | 16:47 |

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# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: FIRS02
Lab Code: ACE
SDG NO.: Q2819
Lab File ID: VY023058.D
BFB Injection Date: 08/13/2025
Instrument ID: MSVOA_Y
BFB Injection Time: 08:21
GC Column: RXI-624 ID: 0.25 (mm)
Heated Purge: Y/N Y

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 20.3 |
| 75 | 30.0 - 60.0% of mass 95 | 53.4 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.4 |
| 173 | Less than 2.0% of mass 174 | 0.8 ( 1 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 82.2 |
| 175 | 5.0 - 9.0% of mass 174 | 6.1 ( 7.4 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 79.6 ( 96.9 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.1 ( 6.4 ) 2 |

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| CLIENT ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC050 | VSTDCCC050 | VY023059.D | 08/13/2025 | 09:37 |
| VY0813SBL01 | VY0813SBL01 | VY023060.D | 08/13/2025 | 10:39 |
| VY0813SBS01 | VY0813SBS01 | VY023061.D | 08/13/2025 | 11:09 |
| 11M-N | Q2819-07 | VY023069.D | 08/13/2025 | 14:55 |
| 11M-E | Q2819-08 | VY023070.D | 08/13/2025 | 15:19 |
| 84SB-E | Q2819-09 | VY023071.D | 08/13/2025 | 15:43 |
| 84SB-S | Q2819-10 | VY023072.D | 08/13/2025 | 16:06 |
| 84SB-W | Q2819-11 | VY023073.D | 08/13/2025 | 16:30 |
| 17M-S | Q2819-12 | VY023074.D | 08/13/2025 | 16:53 |
| 17M-E | Q2819-13 | VY023075.D | 08/13/2025 | 17:17 |
| 17M-W | Q2819-14 | VY023076.D | 08/13/2025 | 17:40 |
| 38M-N | Q2819-17 | VY023079.D | 08/13/2025 | 18:51 |
| 38M-W | Q2819-18 | VY023080.D | 08/13/2025 | 19:14 |
| 38M-E | Q2819-19 | VY023081.D | 08/13/2025 | 19:38 |
| VSTDCCC050EC | VSTDCCC050 | VY023082.D | 08/13/2025 | 20:00 |

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# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: FIRS02
Lab Code: ACE
SDG NO.: Q2819
Lab File ID: VY023083.D
BFB Injection Date: 08/14/2025
Instrument ID: MSVOA_Y
BFB Injection Time: 09:48
GC Column: RXI-624 ID: 0.25 (mm)
Heated Purge: Y/N Y

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 20.5 |
| 75 | 30.0 - 60.0% of mass 95 | 52.9 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.5 |
| 173 | Less than 2.0% of mass 174 | 0.6 ( 0.7 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 84 |
| 175 | 5.0 - 9.0% of mass 174 | 6.4 ( 7.6 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 81.2 ( 96.6 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.2 ( 6.5 ) 2 |

1-Value is % mass 174
2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| CLIENT ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC050 | VSTDCCC050 | VY023084.D | 08/14/2025 | 10:17 |
| VY0814SBL01 | VY0814SBL01 | VY023085.D | 08/14/2025 | 10:50 |
| VY0814SBS01 | VY0814SBS01 | VY023086.D | 08/14/2025 | 11:22 |
| 84SB-SRE | Q2819-10RE | VY023089.D | 08/14/2025 | 12:50 |
| 84SB-WRE | Q2819-11RE | VY023090.D | 08/14/2025 | 13:13 |
| 17M-N | Q2819-15 | VY023091.D | 08/14/2025 | 13:37 |
| 38M-S | Q2819-16 | VY023092.D | 08/14/2025 | 14:00 |
| VSTDCCC050EC | VSTDCCC050 | VY023109.D | 08/14/2025 | 20:38 |

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# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Contract: FIRS02
Lab Code: ACE
SDG NO.: Q2819
Lab File ID: VY023136.D
BFB Injection Date: 08/19/2025
Instrument ID: MSVOA_Y
BFB Injection Time: 07:45
GC Column: RXI-624 ID: 0.25 (mm)
Heated Purge: Y/N Y

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 19.1 |
| 75 | 30.0 - 60.0% of mass 95 | 51.4 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.8 |
| 173 | Less than 2.0% of mass 174 | 0.8 ( 1 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 87.6 |
| 175 | 5.0 - 9.0% of mass 174 | 6.6 ( 7.5 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 84.1 ( 96.1 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.4 ( 6.4 ) 2 |

1-Value is % mass 174
2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| CLIENT ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC050 | VSTDCCC050 | VY023137.D | 08/19/2025 | 09:11 |
| VY0819SBL01 | VY0819SBL01 | VY023138.D | 08/19/2025 | 09:49 |
| VY0819SBS01 | VY0819SBS01 | VY023139.D | 08/19/2025 | 10:19 |
| 82H-E | Q2819-20 | VY023144.D | 08/19/2025 | 12:31 |
| VSTDCCC050EC | VSTDCCC050 | VY023160.D | 08/19/2025 | 19:08 |

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## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG NO.: Q2819

Lab File ID: VW032055.D Date Analyzed: 08/11/2025

Instrument ID: MSVOA_W Time Analyzed: 10:09

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

| | IS1 AREA # | RT # | IS2 AREA # | RT # | IS3 AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 223324 | 7.96 | 406973 | 8.85 | 378090 | 11.63 |
| UPPER LIMIT | 446648 | 8.459 | 813946 | 9.349 | 756180 | 12.129 |
| LOWER LIMIT | 111662 | 7.459 | 203487 | 8.349 | 189045 | 11.129 |
| EPA SAMPLE NO. | | | | | | |
| 22BP-N | 179118 | 7.97 | 369689 | 8.86 | 349416 | 11.64 |
| 22BP-E | 162255 | 7.96 | 348088 | 8.86 | 335072 | 11.64 |
| 22BP-W | 162776 | 7.97 | 351013 | 8.86 | 336246 | 11.63 |
| 22BP-S | 167919 | 7.96 | 354178 | 8.86 | 340658 | 11.63 |
| 11M-W | 160482 | 7.97 | 347658 | 8.85 | 344119 | 11.63 |
| 11M-S | 165877 | 7.96 | 348126 | 8.86 | 337870 | 11.63 |
| VW0811SBL01 | 176404 | 7.96 | 391811 | 8.85 | 359327 | 11.64 |
| VW0811SBS01 | 224181 | 7.96 | 427747 | 8.85 | 394820 | 11.63 |
| VW0811SBSD01 | 226773 | 7.96 | 441696 | 8.85 | 400240 | 11.64 |

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG NO.: Q2819

Lab File ID: VW032055.D Date Analyzed: 08/11/2025

Instrument ID: MSVOA_W Time Analyzed: 10:09

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

| | IS4 AREA # | RT # | | | | |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 178995 | 13.556 | | | | |
| UPPER LIMIT | 357990 | 14.056 | | | | |
| LOWER LIMIT | 89497.5 | 13.056 | | | | |
| EPA SAMPLE NO. | | | | | | |
| 22BP-N | 149992 | 13.56 | | | | |
| 22BP-E | 163221 | 13.56 | | | | |
| 22BP-W | 147943 | 13.56 | | | | |
| 22BP-S | 157540 | 13.56 | | | | |
| 11M-W | 158417 | 13.56 | | | | |
| 11M-S | 150514 | 13.56 | | | | |
| VW0811SBL01 | 169733 | 13.56 | | | | |
| VW0811SBS01 | 191594 | 13.56 | | | | |
| VW0811SBSD01 | 195548 | 13.56 | | | | |

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG NO.: Q2819

Lab File ID: VY023059.D Date Analyzed: 08/13/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:37

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

| | IS1 AREA # | RT # | IS2 AREA # | RT # | IS3 AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 535817 | 7.70 | 845865 | 8.61 | 741859 | 11.41 |
| UPPER LIMIT | 1071630 | 8.201 | 1691730 | 9.109 | 1483720 | 11.914 |
| LOWER LIMIT | 267909 | 7.201 | 422933 | 8.109 | 370930 | 10.914 |
| EPA SAMPLE NO. | | | | | | |
| 11M-N | 499481 | 7.71 | 998493 | 8.61 | 877177 | 11.41 |
| 11M-E | 520297 | 7.71 | 1036801 | 8.61 | 905464 | 11.41 |
| 84SB-E | 542397 | 7.71 | 1071198 | 8.61 | 903366 | 11.41 |
| 84SB-S | 616963 | 7.71 | 1186470 | 8.61 | 951178 | 11.41 |
| 84SB-W | 153832 * | 7.71 | 260153 * | 8.61 | 196566 * | 11.41 |
| 17M-S | 489566 | 7.71 | 943748 | 8.61 | 838550 | 11.41 |
| 17M-E | 658128 | 7.71 | 1324720 | 8.61 | 1172539 | 11.41 |
| 17M-W | 675805 | 7.70 | 1293758 | 8.61 | 1059306 | 11.41 |
| 38M-N | 669452 | 7.71 | 1354583 | 8.61 | 1228757 | 11.41 |
| 38M-W | 629431 | 7.71 | 1263312 | 8.61 | 1125973 | 11.41 |
| 38M-E | 641351 | 7.71 | 1276856 | 8.61 | 1106347 | 11.41 |
| VY0813SBL01 | 552605 | 7.71 | 1076478 | 8.61 | 906449 | 11.41 |
| VY0813SBS01 | 478194 | 7.71 | 775826 | 8.61 | 675926 | 11.41 |

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG NO.: Q2819

Lab File ID: VY023059.D Date Analyzed: 08/13/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:37

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

| | IS4 AREA # | | RT # | | | | |
|---|---|---|---|---|---|---|---|
| 12 HOUR STD | 361154 | | 13.346 | | | | |
| UPPER LIMIT | 722308 | | 13.846 | | | | |
| LOWER LIMIT | 180577 | | 12.846 | | | | |
| EPA SAMPLE NO. | | | | | | | |
| 11M-N | 339290 | | 13.34 | | | | |
| 11M-E | 338962 | | 13.34 | | | | |
| 84SB-E | 305266 | | 13.34 | | | | |
| 84SB-S | 298114 | | 13.34 | | | | |
| 84SB-W | 66820 | * | 13.34 | | | | |
| 17M-S | 344922 | | 13.34 | | | | |
| 17M-E | 487544 | | 13.34 | | | | |
| 17M-W | 379138 | | 13.34 | | | | |
| 38M-N | 509432 | | 13.34 | | | | |
| 38M-W | 453970 | | 13.34 | | | | |
| 38M-E | 424298 | | 13.34 | | | | |
| VY0813SBL01 | 384760 | | 13.34 | | | | |
| VY0813SBS01 | 325106 | | 13.34 | | | | |

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG NO.: Q2819

Lab File ID: VY023084.D Date Analyzed: 08/14/2025

Instrument ID: MSVOA_Y Time Analyzed: 10:17

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

| | IS1 AREA # | RT # | IS2 AREA # | RT # | IS3 AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 410930 | 7.71 | 647551 | 8.62 | 582049 | 11.41 |
| UPPER LIMIT | 821860 | 8.207 | 1295100 | 9.116 | 1164100 | 11.914 |
| LOWER LIMIT | 205465 | 7.207 | 323776 | 8.116 | 291025 | 10.914 |
| EPA SAMPLE NO. | | | | | | |
| 84SB-SRE | 511221 | 7.71 | 976224 | 8.61 | 768763 | 11.41 |
| 84SB-WRE | 64668 * | 7.71 | 91288 * | 8.62 | 57705 * | 11.41 |
| 17M-N | 551711 | 7.71 | 1101553 | 8.61 | 967632 | 11.41 |
| 38M-S | 501292 | 7.71 | 980075 | 8.61 | 813504 | 11.41 |
| VY0814SBL01 | 514218 | 7.71 | 1013413 | 8.62 | 885359 | 11.41 |
| VY0814SBS01 | 455827 | 7.71 | 734618 | 8.61 | 641778 | 11.41 |

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG NO.: Q2819

Lab File ID: VY023084.D Date Analyzed: 08/14/2025

Instrument ID: MSVOA_Y Time Analyzed: 10:17

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

| | IS4 AREA # | | RT # | | | | |
|---|---|---|---|---|---|---|---|
| 12 HOUR STD | 290049 | | 13.346 | | | | |
| UPPER LIMIT | 580098 | | 13.846 | | | | |
| LOWER LIMIT | 145025 | | 12.846 | | | | |
| EPA SAMPLE NO. | | | | | | | |
| 84SB-SRE | 212273 | | 13.34 | | | | |
| 84SB-WRE | 13403 | * | 13.35 | | | | |
| 17M-N | 381964 | | 13.34 | | | | |
| 38M-S | 246483 | | 13.34 | | | | |
| VY0814SBL01 | 340788 | | 13.35 | | | | |
| VY0814SBS01 | 309825 | | 13.34 | | | | |

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

**# Column used to flag values outside QC limits with an asterisk.**
*** Values outside of QC limits.**

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Fax : 908 789 8922

## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG NO.: Q2819

Lab File ID: VY023137.D Date Analyzed: 08/19/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:11

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

| | IS1 AREA # | RT # | IS2 AREA # | RT # | IS3 AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 560294 | 7.71 | 876189 | 8.62 | 761785 | 11.41 |
| UPPER LIMIT | 1120590 | 8.213 | 1752380 | 9.116 | 1523570 | 11.914 |
| LOWER LIMIT | 280147 | 7.213 | 438095 | 8.116 | 380893 | 10.914 |
| EPA SAMPLE NO. | | | | | | |
| 82H-E | 627655 | 7.71 | 1149795 | 8.62 | 978415 | 11.41 |
| VY0819SBL01 | 658468 | 7.71 | 1194271 | 8.62 | 1104701 | 11.41 |
| VY0819SBS01 | 517532 | 7.71 | 816918 | 8.62 | 707204 | 11.41 |

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG NO.: Q2819

Lab File ID: VY023137.D Date Analyzed: 08/19/2025

Instrument ID: MSVOA_Y Time Analyzed: 09:11

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

| | IS4 AREA # | RT # | | | | |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 392533 | 13.346 | | | | |
| UPPER LIMIT | 785066 | 13.846 | | | | |
| LOWER LIMIT | 196267 | 12.846 | | | | |
| EPA SAMPLE NO. | | | | | | |
| 82H-E | 336379 | 13.35 | | | | |
| VY0819SBL01 | 444569 | 13.35 | | | | |
| VY0819SBS01 | 352720 | 13.35 | | | | |

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

# SAMPLE DATA

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/04/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 22BP-N | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 82.9 |
| Sample Wt/Vol: | 8.52 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VW032071.D | 1 | 08/11/25 16:56 | VW081125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 2.80 | U | 0.81 | 2.80 | 3.50 | ug/Kg |
| 74-87-3 | Chloromethane | 1.80 | U | 0.81 | 1.80 | 3.50 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 1.80 | U | 0.56 | 1.80 | 3.50 | ug/Kg |
| 74-83-9 | Bromomethane | 2.80 | U | 0.76 | 2.80 | 3.50 | ug/Kg |
| 75-00-3 | Chloroethane | 1.80 | U | 0.89 | 1.80 | 3.50 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 2.80 | U | 0.86 | 2.80 | 3.50 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 1.80 | U | 0.75 | 1.80 | 3.50 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 1.80 | U | 0.71 | 1.80 | 3.50 | ug/Kg |
| 67-64-1 | Acetone | 5.40 | J | 3.40 | 14.2 | 17.7 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 2.80 | U | 0.75 | 2.80 | 3.50 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 1.80 | U | 0.52 | 1.80 | 3.50 | ug/Kg |
| 79-20-9 | Methyl Acetate | 2.80 | U | 1.10 | 2.80 | 3.50 | ug/Kg |
| 75-09-2 | Methylene Chloride | 5.70 | J | 2.50 | 5.70 | 7.10 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 1.80 | U | 0.61 | 1.80 | 3.50 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 1.80 | U | 0.57 | 1.80 | 3.50 | ug/Kg |
| 110-82-7 | Cyclohexane | 1.80 | U | 0.56 | 1.80 | 3.50 | ug/Kg |
| 78-93-3 | 2-Butanone | 14.2 | U | 4.60 | 14.2 | 17.7 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 1.80 | U | 0.69 | 1.80 | 3.50 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 1.80 | U | 0.53 | 1.80 | 3.50 | ug/Kg |
| 74-97-5 | Bromochloromethane | 2.80 | U | 0.81 | 2.80 | 3.50 | ug/Kg |
| 67-66-3 | Chloroform | 2.80 | U | 0.59 | 2.80 | 3.50 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 1.80 | U | 0.66 | 1.80 | 3.50 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 1.80 | U | 0.64 | 1.80 | 3.50 | ug/Kg |
| 71-43-2 | Benzene | 1.80 | U | 0.56 | 1.80 | 3.50 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 1.80 | U | 0.56 | 1.80 | 3.50 | ug/Kg |
| 79-01-6 | Trichloroethene | 1.80 | U | 0.57 | 1.80 | 3.50 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 1.80 | U | 0.64 | 1.80 | 3.50 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 1.80 | U | 0.55 | 1.80 | 3.50 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 8.80 | U | 2.50 | 8.80 | 17.7 | ug/Kg |
| 108-88-3 | Toluene | 1.80 | U | 0.55 | 1.80 | 3.50 | ug/Kg |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/04/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 22BP-N | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 82.9 |
| Sample Wt/Vol: | 8.52 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VW032071.D | 1 | 08/11/25 16:56 | VW081125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 1.80 | U | 0.46 | 1.80 | 3.50 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.80 | U | 0.44 | 1.80 | 3.50 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 1.80 | U | 0.65 | 1.80 | 3.50 | ug/Kg |
| 591-78-6 | 2-Hexanone | 8.80 | U | 2.60 | 8.80 | 17.7 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 1.80 | U | 0.62 | 1.80 | 3.50 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 1.80 | U | 0.62 | 1.80 | 3.50 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 1.80 | U | 0.74 | 1.80 | 3.50 | ug/Kg |
| 108-90-7 | Chlorobenzene | 1.80 | U | 0.64 | 1.80 | 3.50 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 1.80 | U | 0.47 | 1.80 | 3.50 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 3.50 | U | 0.88 | 3.50 | 7.10 | ug/Kg |
| 95-47-6 | o-Xylene | 1.80 | U | 0.58 | 1.80 | 3.50 | ug/Kg |
| 100-42-5 | Styrene | 1.80 | U | 0.50 | 1.80 | 3.50 | ug/Kg |
| 75-25-2 | Bromoform | 1.80 | U | 0.61 | 1.80 | 3.50 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 1.80 | U | 0.55 | 1.80 | 3.50 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.80 | U | 0.86 | 1.80 | 3.50 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 1.80 | U | 1.20 | 1.80 | 3.50 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 1.80 | U | 1.10 | 1.80 | 3.50 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 1.80 | U | 1.00 | 1.80 | 3.50 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 2.80 | U | 1.30 | 2.80 | 3.50 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 2.80 | U | 2.10 | 2.80 | 3.50 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 2.80 | U | 2.30 | 2.80 | 3.50 | ug/Kg |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 52.0 | | 71 - 136 | | 104% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 51.3 | | 78 - 119 | | 103% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.5 | | 85 - 116 | | 101% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 48.4 | | 79 - 119 | | 97% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 179000 | 7.965 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 370000 | 8.855 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 349000 | 11.635 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 150000 | 13.556 | | | | |

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/04/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 22BP-N | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 82.9 |
| Sample Wt/Vol: | 8.52 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VW032071.D | 1 | 08/11/25 16:56 | VW081125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032071.D
Acq On : 11 Aug 2025 16:56
Operator : SY/MD
Sample : Q2819-01
Misc : 8.52g/5mL/MSVOA_W/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-N

Quant Time: Aug 12 04:28:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

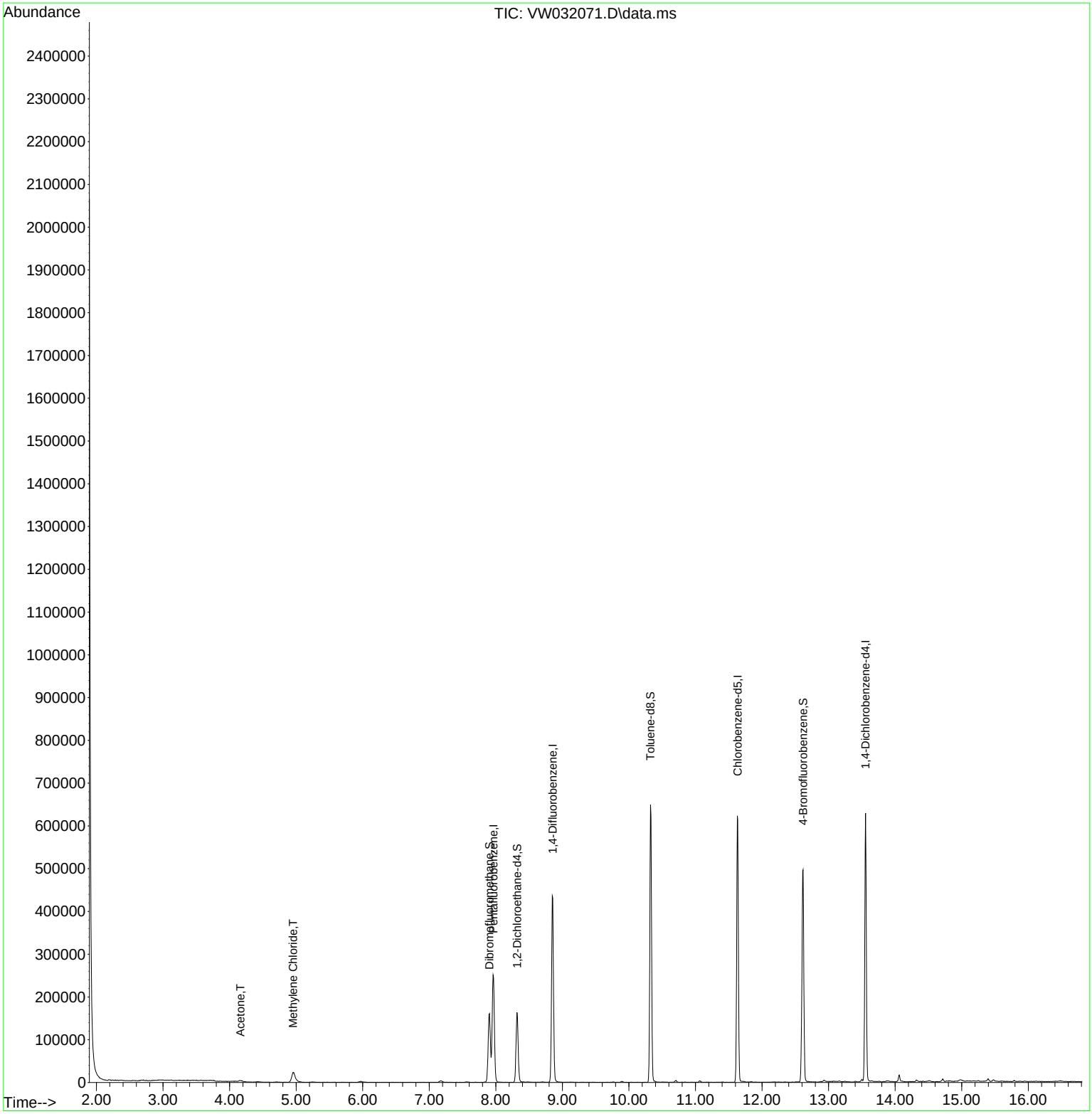
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.965 | 168 | 179118 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.855 | 114 | 369689 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.635 | 117 | 349416 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.556 | 152 | 149992 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.319 | 65 | 134686 | 51.991 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 63 - 155 | | Recovery = 103.980% | | | |
| 35) Dibromofluoromethane | 7.904 | 113 | 122452 | 51.271 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 70 - 134 | | Recovery = 102.540% | | | |
| 50) Toluene-d8 | 10.325 | 98 | 446094 | 50.499 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 123 | | Recovery = 101.000% | | | |
| 62) 4-Bromofluorobenzene | 12.617 | 95 | 157399 | 48.351 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 17 - 146 | | Recovery = 96.700% | | | |
| Target Compounds | | | | | | Qvalue |
| 16) Acetone | 4.161 | 43 | 4561 | 7.604 | ug/l | 90 |
| 20) Methylene Chloride | 4.954 | 84 | 22396 | 8.076 | ug/l | 97 |

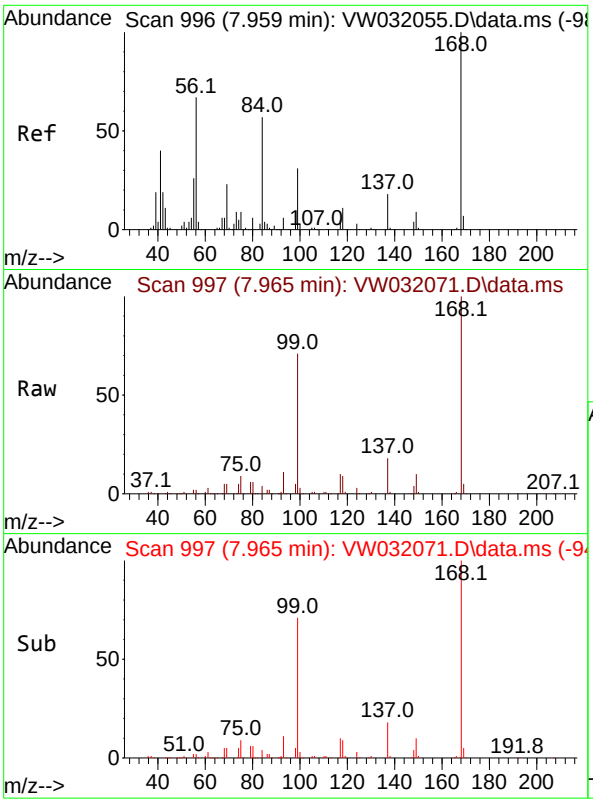
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032071.D
Acq On : 11 Aug 2025 16:56
Operator : SY/MD
Sample : Q2819-01
Misc : 8.52g/5mL/MSVOA_W/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-N

Quant Time: Aug 12 04:28:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration



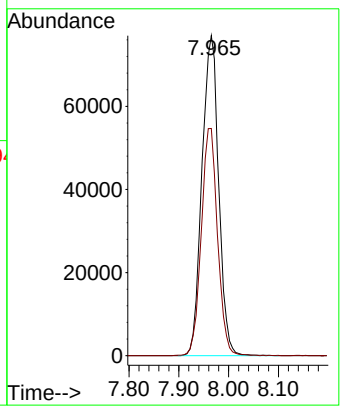


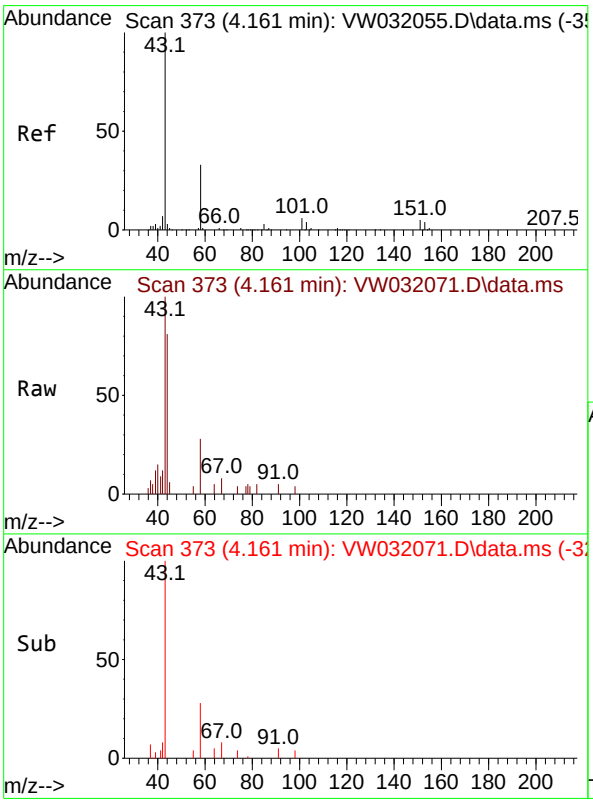

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032071.D
Acq: 11 Aug 2025 16:56

**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-N

Tgt Ion:168 Resp: 179118

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 70.9 | 56.0 | 84.0 |

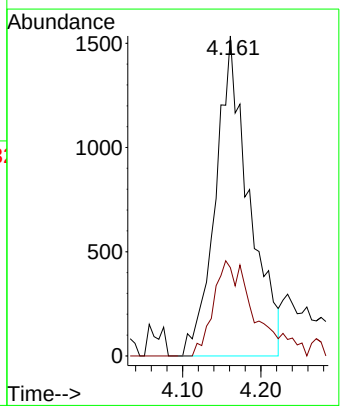


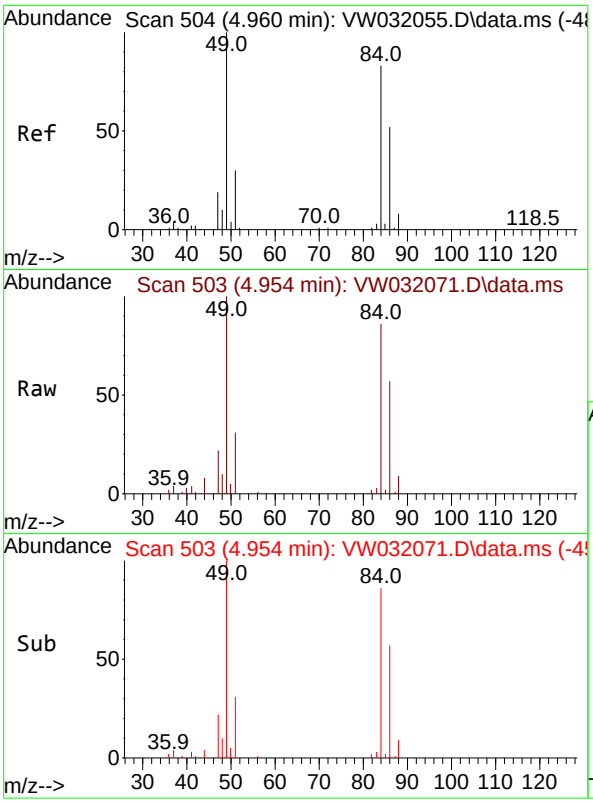




#16
Acetone
Concen: 7.604 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032071.D
Acq: 11 Aug 2025 16:56

Tgt Ion: 43 Resp: 4561

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.6 | 26.6 | 39.8 |



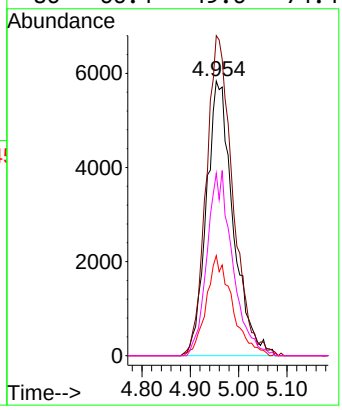


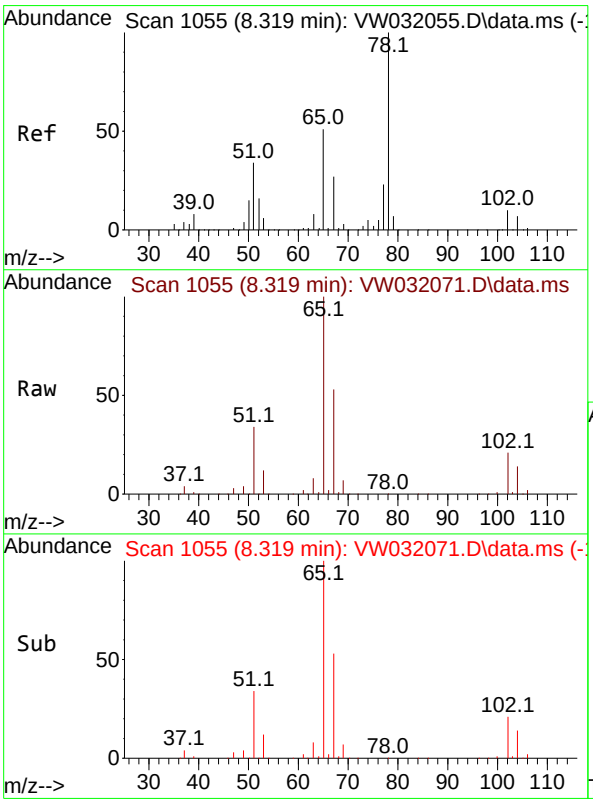

#20
Methylene Chloride
Concen: 8.076 ug/l
RT: 4.954 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032071.D
Acq: 11 Aug 2025 16:56

**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-N

Tgt Ion: 84 Resp: 22396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 116.6 | 95.9 | 143.9 |
| 51 | 36.4 | 28.6 | 43.0 |
| 86 | 66.4 | 49.6 | 74.4 |

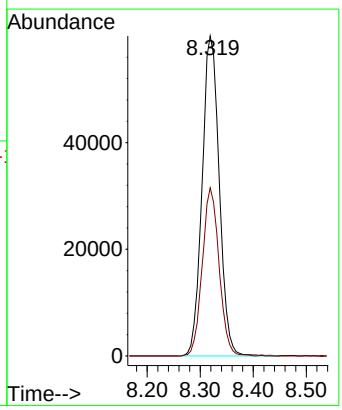


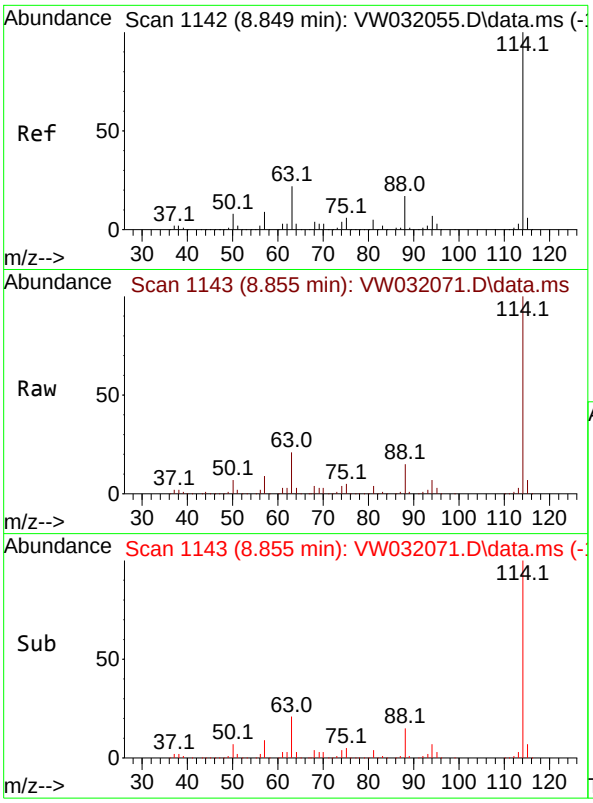




#33
1,2-Dichloroethane-d4
Concen: 51.991 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. -0.000 min
Lab File: VW032071.D
Acq: 11 Aug 2025 16:56

Tgt Ion: 65 Resp: 134686

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.4 | 0.0 | 102.4 |



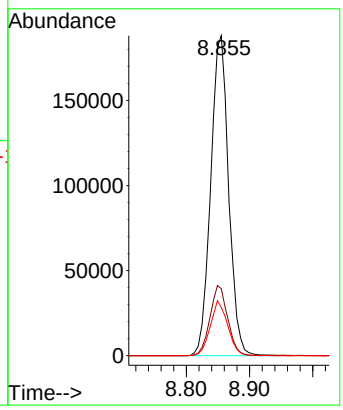


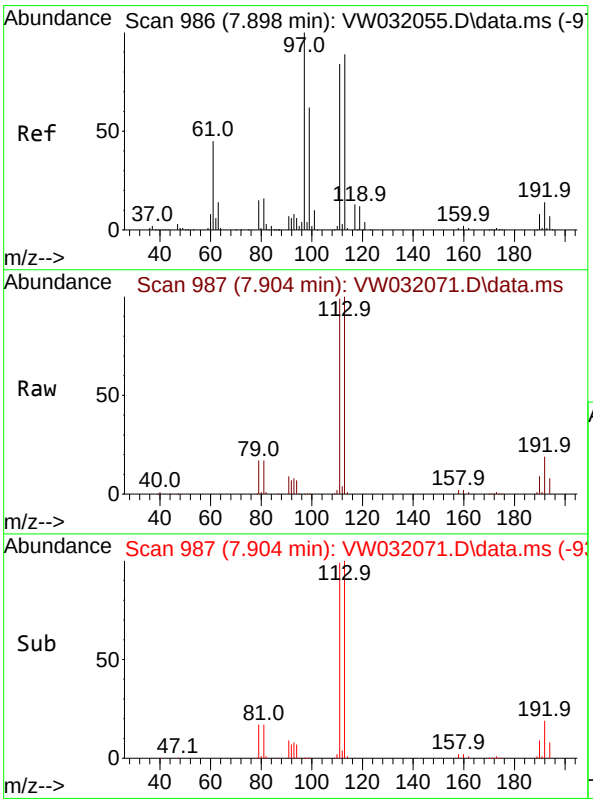

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.855 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032071.D
Acq: 11 Aug 2025 16:56

**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-N

Tgt Ion:114 Resp: 369689

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.0 | 0.0 | 43.0 |
| 88 | 15.1 | 0.0 | 33.8 |

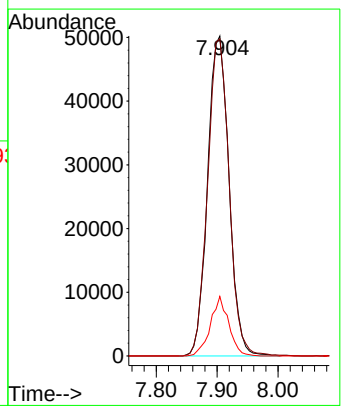


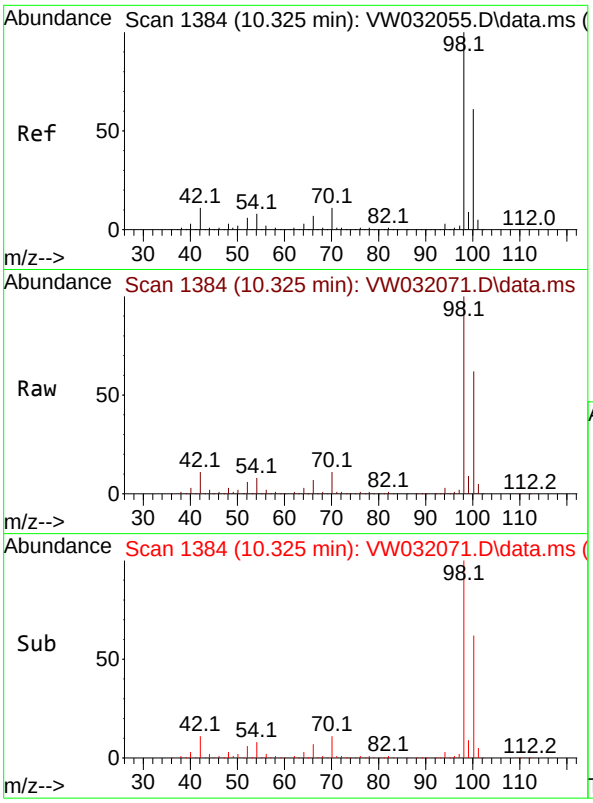




#35
Dibromofluoromethane
Concen: 51.271 ug/l
RT: 7.904 min Scan# 987
Delta R.T. 0.006 min
Lab File: VW032071.D
Acq: 11 Aug 2025 16:56

Tgt Ion:113 Resp: 122452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 99.7 | 80.1 | 120.1 |
| 192 | 16.0 | 13.1 | 19.7 |



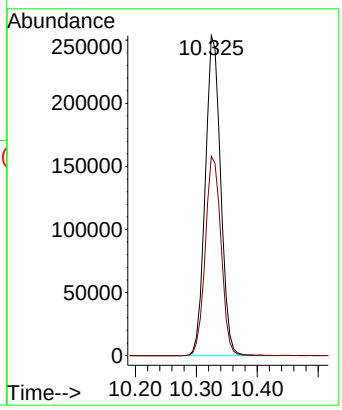


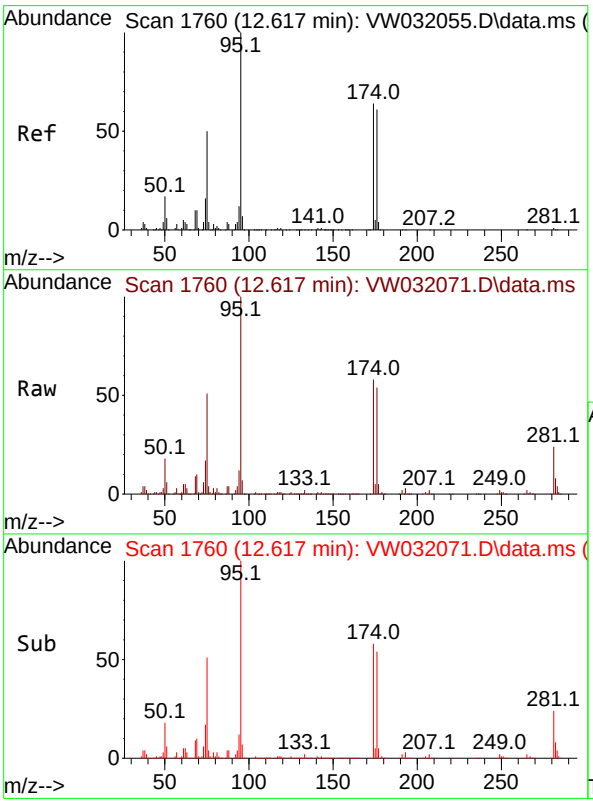

#50
Toluene-d8
Concen: 50.499 ug/l
RT: 10.325 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032071.D
Acq: 11 Aug 2025 16:56

**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-N

Tgt Ion: 98 Resp: 446094

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.8 | 51.1 | 76.7 |

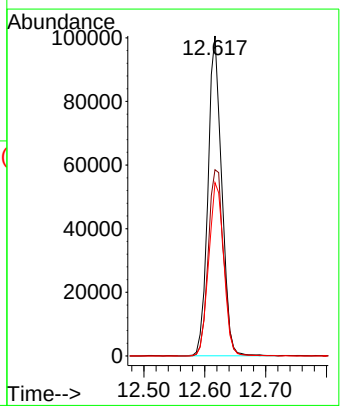


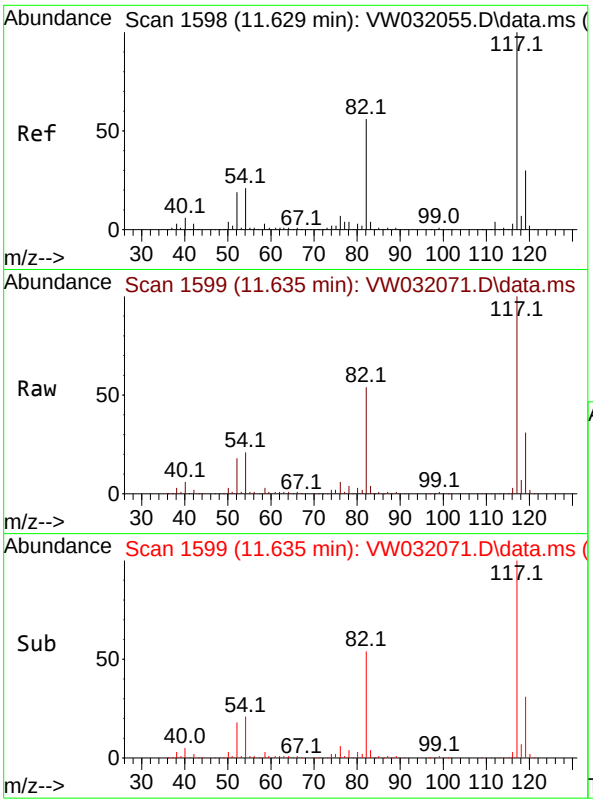




#62
4-Bromofluorobenzene
Concen: 48.351 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032071.D
Acq: 11 Aug 2025 16:56

Tgt Ion: 95 Resp: 157399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 65.4 | 0.0 | 129.0 |
| 176 | 59.3 | 0.0 | 124.6 |



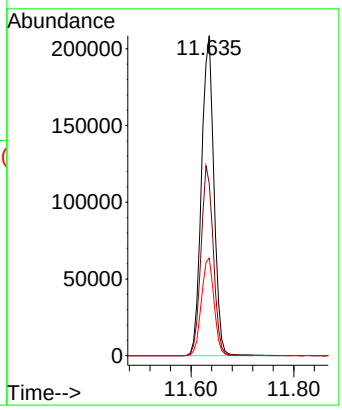


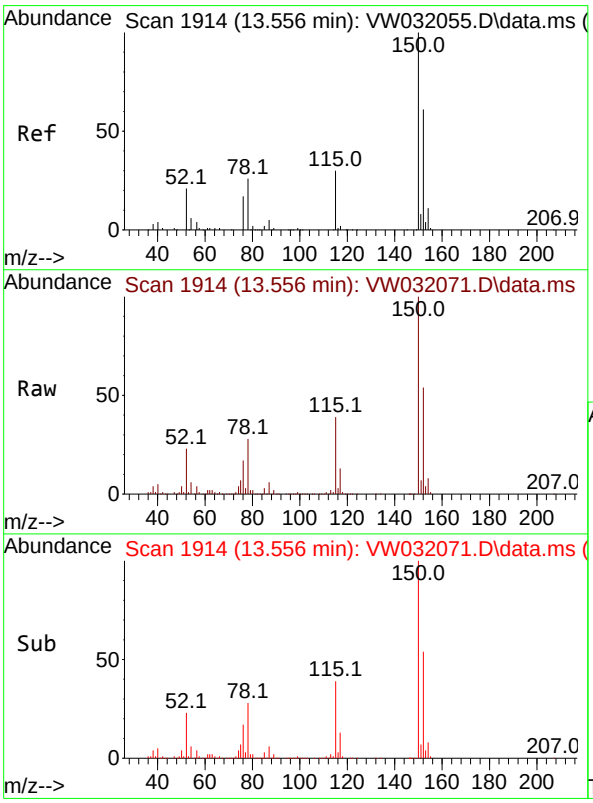

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032071.D
Acq: 11 Aug 2025 16:56

**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-N

Tgt Ion:117 Resp: 349416

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 53.8 | 45.0 | 67.4 |
| 119 | 30.5 | 24.2 | 36.4 |

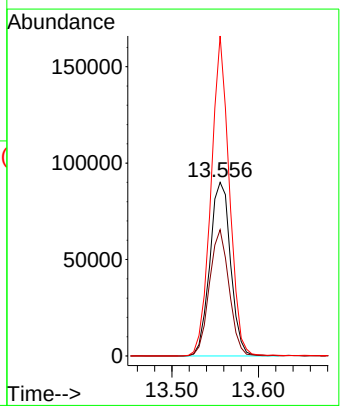



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032071.D
Acq: 11 Aug 2025 16:56

Tgt Ion:152 Resp: 149992

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 68.9 | 32.6 | 97.8 |
| 150 | 162.5 | 0.0 | 359.4 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032071.D
Acq On : 11 Aug 2025 16:56
Operator : SY/MD
Sample : Q2819-01
Misc : 8.52g/5mL/MSVOA_W/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-N

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Title : SW846 8260

Signal : TIC: VW032071.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.954 | 491 | 503 | 518 | rBV2 | 23311 | 90215 | 7.77% | 1.384% |
| 2 | 7.904 | 971 | 987 | 991 | rBV | 160257 | 387598 | 33.39% | 5.948% |
| 3 | 7.959 | 991 | 996 | 1008 | rVB2 | 250237 | 580499 | 50.01% | 8.908% |
| 4 | 8.319 | 1045 | 1055 | 1069 | rBV | 163302 | 364317 | 31.39% | 5.591% |
| 5 | 8.849 | 1134 | 1142 | 1153 | rBV | 435294 | 877368 | 75.59% | 13.464% |
| 6 | 10.325 | 1376 | 1384 | 1393 | rBV | 649126 | 1160710 | 100.00% | 17.812% |
| 7 | 11.629 | 1590 | 1598 | 1610 | rBV | 622810 | 1087142 | 93.66% | 16.683% |
| 8 | 12.617 | 1751 | 1760 | 1770 | rBV2 | 495939 | 963475 | 83.01% | 14.785% |
| 9 | 13.556 | 1907 | 1914 | 1926 | rVB | 626685 | 978035 | 84.26% | 15.008% |
| 10 | 14.062 | 1988 | 1997 | 2002 | rBV | 15850 | 27254 | 2.35% | 0.418% |

Sum of corrected areas: 6516613

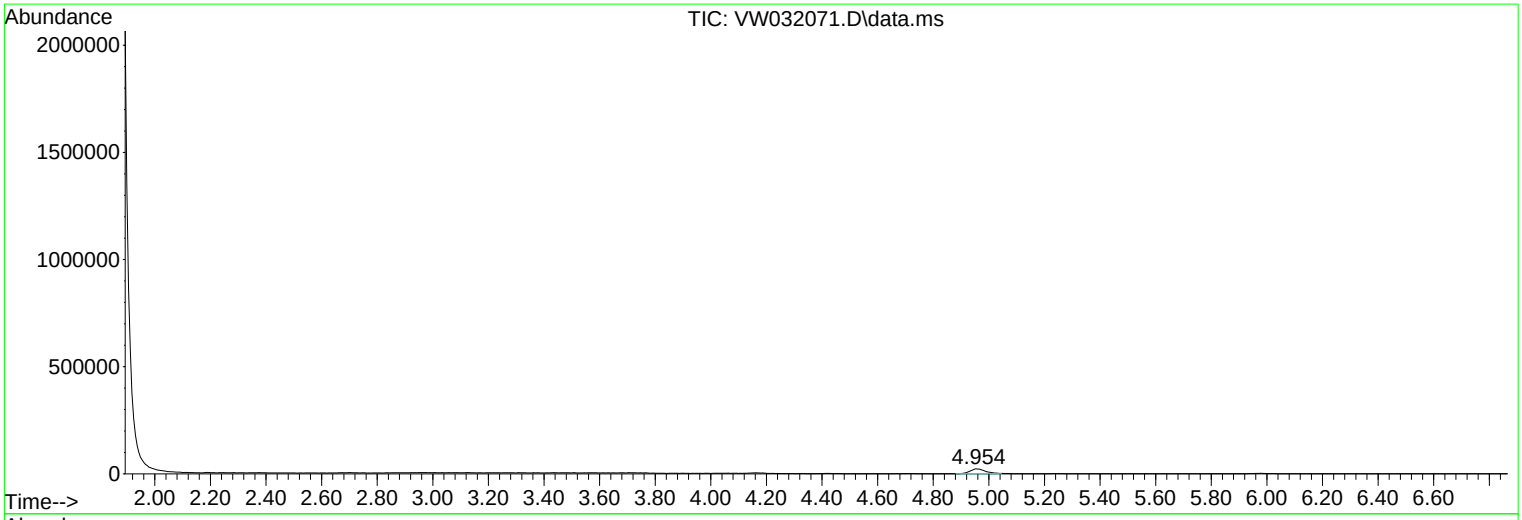
Sample Results: **VW032071.D**

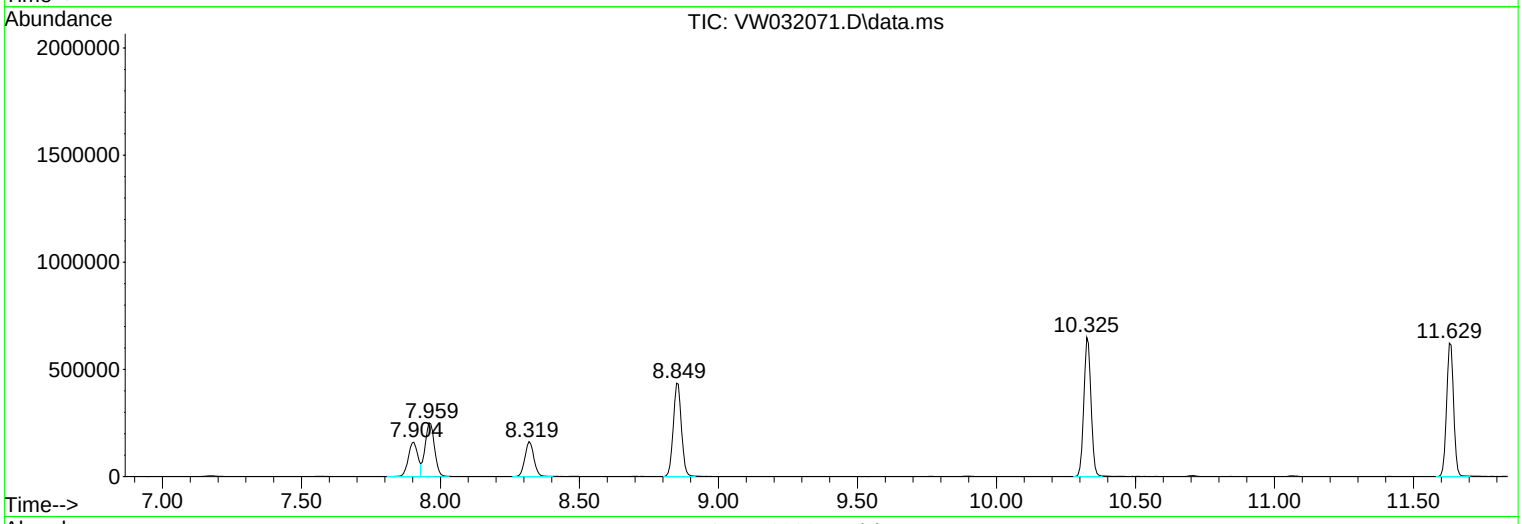
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032071.D
Acq On : 11 Aug 2025 16:56
Operator : SY/MD
Sample : Q2819-01
Misc : 8.52g/5mL/MSVOA_W/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

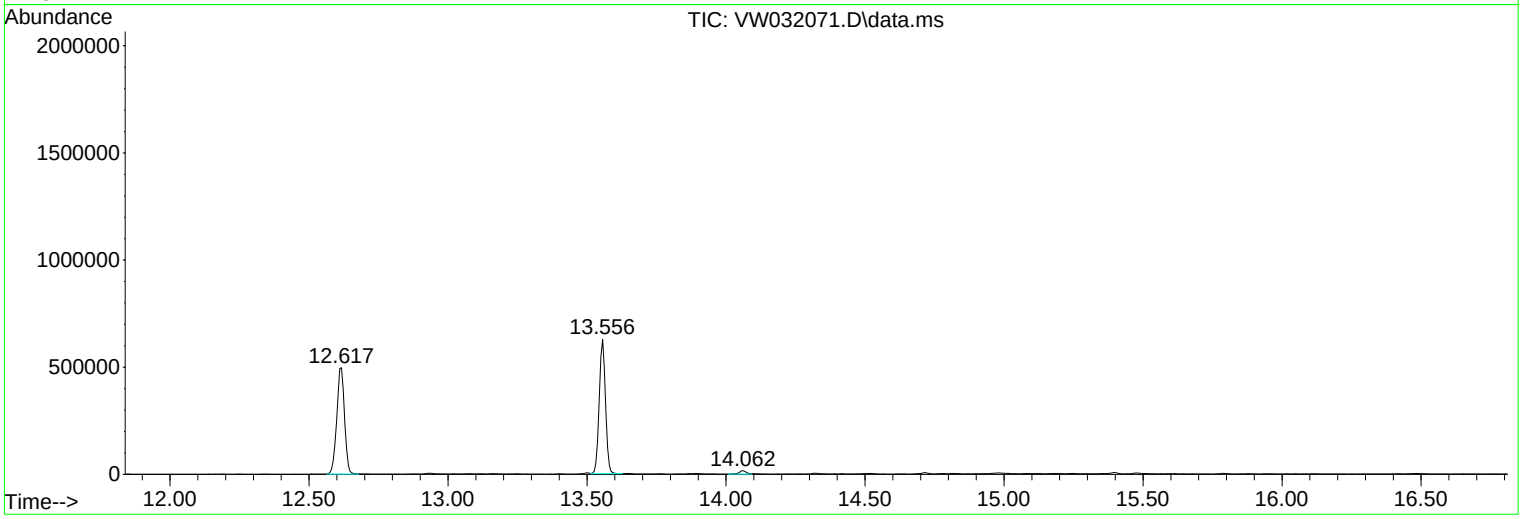
**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-N

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032071.D
Acq On : 11 Aug 2025 16:56
Operator : SY/MD
Sample : Q2819-01
Misc : 8.52g/5mL/MSVOA_W/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-N

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
**********

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032071.D
Acq On : 11 Aug 2025 16:56
Operator : SY/MD
Sample : Q2819-01
Misc : 8.52g/5mL/MSVOA_W/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-N

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/04/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 22BP-E | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-02 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 85.7 |
| Sample Wt/Vol: | 7.28 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VW032072.D | 1 | 08/11/25 17:18 | VW081125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 3.20 | U | 0.91 | 3.20 | 4.00 | ug/Kg |
| 74-87-3 | Chloromethane | 2.00 | U | 0.91 | 2.00 | 4.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 2.00 | U | 0.63 | 2.00 | 4.00 | ug/Kg |
| 74-83-9 | Bromomethane | 3.20 | U | 0.86 | 3.20 | 4.00 | ug/Kg |
| 75-00-3 | Chloroethane | 2.00 | U | 1.00 | 2.00 | 4.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 3.20 | U | 0.97 | 3.20 | 4.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 2.00 | U | 0.85 | 2.00 | 4.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 2.00 | U | 0.80 | 2.00 | 4.00 | ug/Kg |
| 67-64-1 | Acetone | 8.00 | J | 3.80 | 16.0 | 20.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 3.20 | U | 0.85 | 3.20 | 4.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 2.00 | U | 0.59 | 2.00 | 4.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 3.20 | U | 1.20 | 3.20 | 4.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 6.40 | U | 2.80 | 6.40 | 8.00 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 2.00 | U | 0.69 | 2.00 | 4.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 2.00 | U | 0.64 | 2.00 | 4.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 2.00 | U | 0.63 | 2.00 | 4.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 16.0 | U | 5.20 | 16.0 | 20.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 2.00 | U | 0.78 | 2.00 | 4.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 2.00 | U | 0.60 | 2.00 | 4.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 3.20 | U | 0.92 | 3.20 | 4.00 | ug/Kg |
| 67-66-3 | Chloroform | 3.20 | U | 0.67 | 3.20 | 4.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 2.00 | U | 0.75 | 2.00 | 4.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 2.00 | U | 0.73 | 2.00 | 4.00 | ug/Kg |
| 71-43-2 | Benzene | 2.00 | U | 0.63 | 2.00 | 4.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 2.00 | U | 0.63 | 2.00 | 4.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 2.00 | U | 0.65 | 2.00 | 4.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 2.00 | U | 0.73 | 2.00 | 4.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 2.00 | U | 0.63 | 2.00 | 4.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 10.0 | U | 2.90 | 10.0 | 20.0 | ug/Kg |
| 108-88-3 | Toluene | 2.00 | U | 0.63 | 2.00 | 4.00 | ug/Kg |

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/04/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 22BP-E | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-02 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 85.7 |
| Sample Wt/Vol: | 7.28 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VW032072.D | 1 | 08/11/25 17:18 | VW081125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 2.00 | U | 0.52 | 2.00 | 4.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 2.00 | U | 0.50 | 2.00 | 4.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 2.00 | U | 0.74 | 2.00 | 4.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 10.0 | U | 3.00 | 10.0 | 20.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 2.00 | U | 0.70 | 2.00 | 4.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 2.00 | U | 0.71 | 2.00 | 4.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 2.00 | U | 0.84 | 2.00 | 4.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 2.00 | U | 0.73 | 2.00 | 4.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 2.00 | U | 0.54 | 2.00 | 4.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 4.00 | U | 0.99 | 4.00 | 8.00 | ug/Kg |
| 95-47-6 | o-Xylene | 2.00 | U | 0.66 | 2.00 | 4.00 | ug/Kg |
| 100-42-5 | Styrene | 2.00 | U | 0.57 | 2.00 | 4.00 | ug/Kg |
| 75-25-2 | Bromoform | 2.00 | U | 0.69 | 2.00 | 4.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 2.00 | U | 0.63 | 2.00 | 4.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 2.00 | U | 0.97 | 2.00 | 4.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 2.00 | U | 1.40 | 2.00 | 4.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 2.00 | U | 1.30 | 2.00 | 4.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 2.00 | U | 1.20 | 2.00 | 4.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 3.20 | U | 1.50 | 3.20 | 4.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 3.20 | U | 2.40 | 3.20 | 4.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 3.20 | U | 2.50 | 3.20 | 4.00 | ug/Kg |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 56.9 | | 71 - 136 | | 114% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 51.1 | | 78 - 119 | | 102% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.6 | | 85 - 116 | | 101% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 54.6 | | 79 - 119 | | 109% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 162000 | 7.959 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 348000 | 8.855 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 335000 | 11.635 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 163000 | 13.556 | | | | |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/04/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 22BP-E | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-02 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 85.7 |
| Sample Wt/Vol: | 7.28 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VW032072.D | 1 | 08/11/25 17:18 | VW081125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032072.D
Acq On : 11 Aug 2025 17:18
Operator : SY/MD
Sample : Q2819-02
Misc : 7.28g/5mL/MSVOA_W/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-E

Quant Time: Aug 12 04:28:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

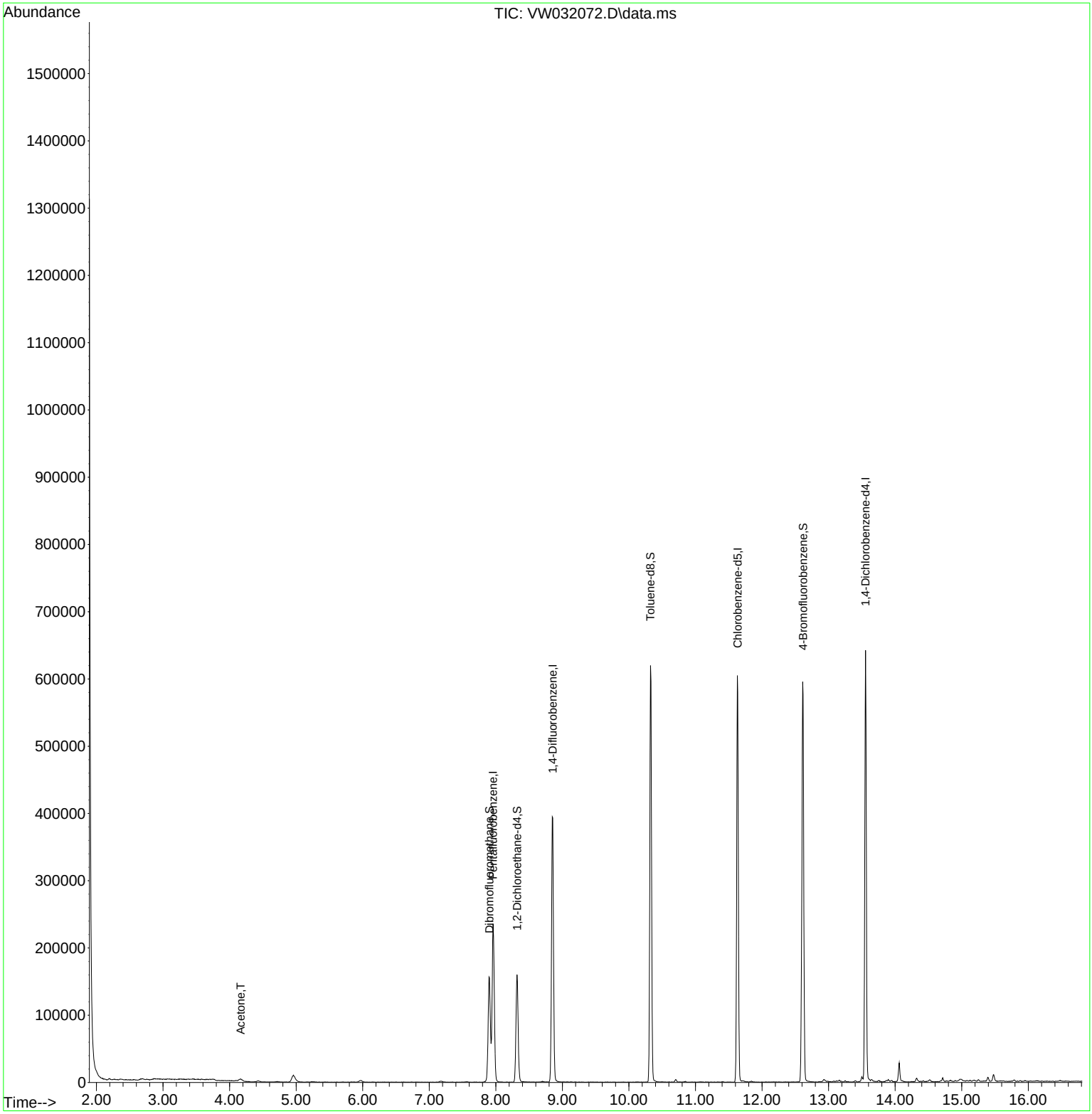
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.959 | 168 | 162255 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.855 | 114 | 348088 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.635 | 117 | 335072 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.556 | 152 | 163221 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.319 | 65 | 133481 | 56.881 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 63 - 155 | | Recovery = 113.760% | | | |
| 35) Dibromofluoromethane | 7.904 | 113 | 114977 | 51.128 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 70 - 134 | | Recovery = 102.260% | | | |
| 50) Toluene-d8 | 10.325 | 98 | 420764 | 50.587 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 123 | | Recovery = 101.180% | | | |
| 62) 4-Bromofluorobenzene | 12.617 | 95 | 167444 | 54.628 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 17 - 146 | | Recovery = 109.260% | | | |
| Target Compounds | | | | | | Qvalue |
| 16) Acetone | 4.167 | 43 | 5391 | 9.922 | ug/l | 89 |

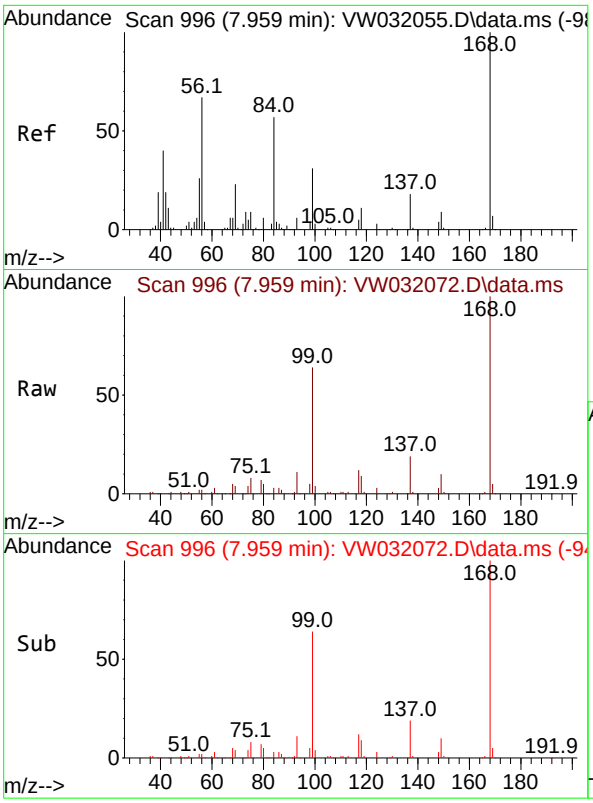
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032072.D
Acq On : 11 Aug 2025 17:18
Operator : SY/MD
Sample : Q2819-02
Misc : 7.28g/5mL/MSVOA_W/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-E

Quant Time: Aug 12 04:28:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration



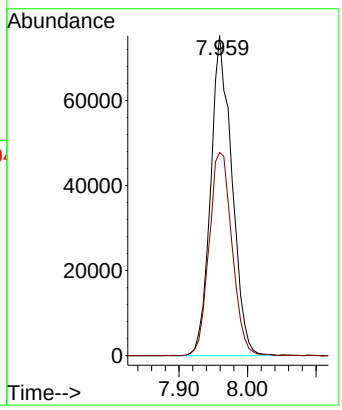


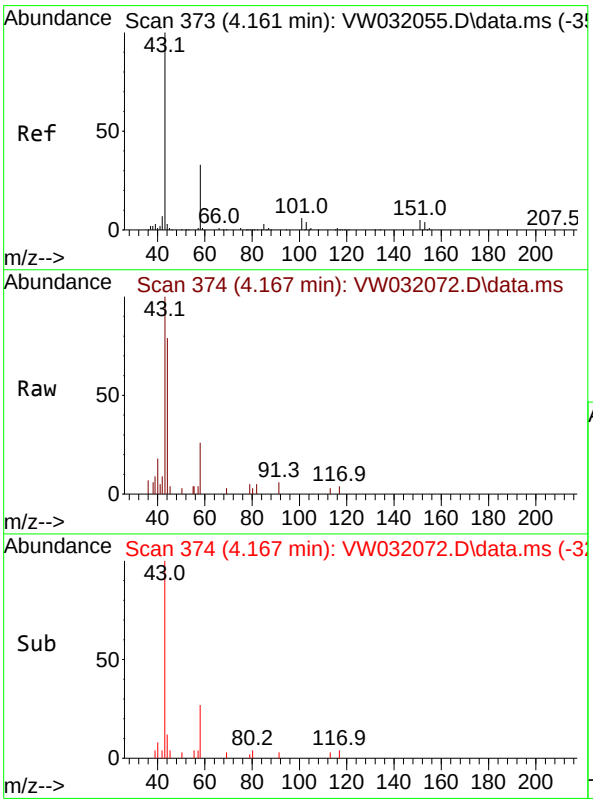

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032072.D
Acq: 11 Aug 2025 17:18

**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-E

Tgt Ion:168 Resp: 162255

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 63.5 | 56.0 | 84.0 |

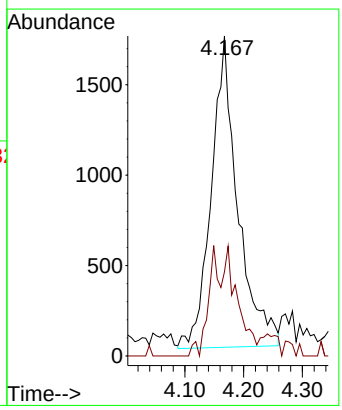


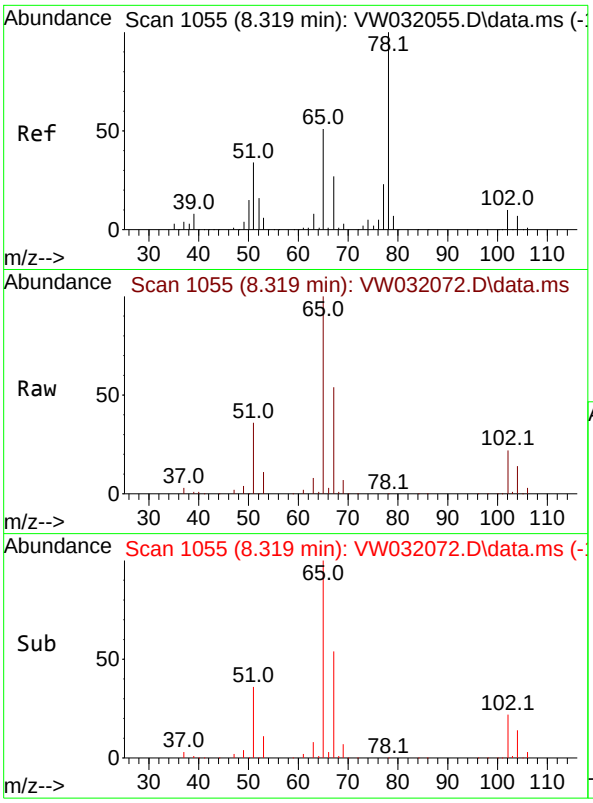




#16
Acetone
Concen: 9.922 ug/l
RT: 4.167 min Scan# 374
Delta R.T. 0.006 min
Lab File: VW032072.D
Acq: 11 Aug 2025 17:18

Tgt Ion: 43 Resp: 5391

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 27.1 | 26.6 | 39.8 |



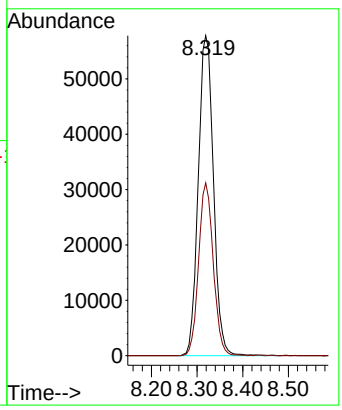


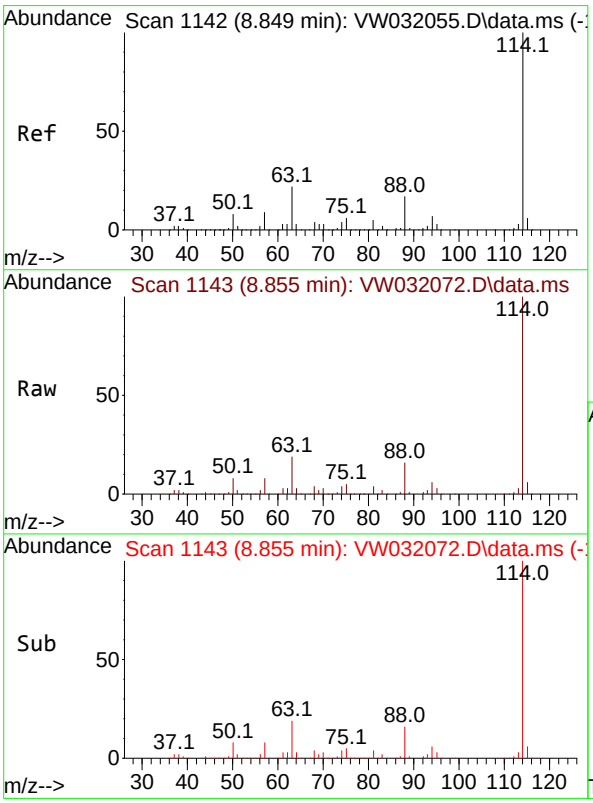

#33
1,2-Dichloroethane-d4
Concen: 56.881 ug/l
RT: 8.319 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032072.D
Acq: 11 Aug 2025 17:18

**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-E

Tgt Ion: 65 Resp: 133481

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.1 | 0.0 | 102.4 |

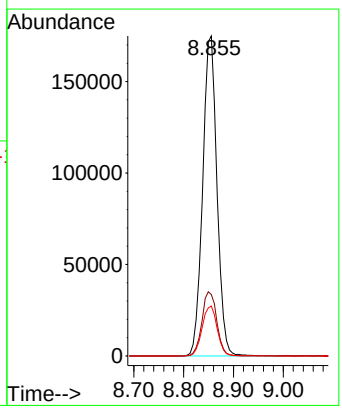


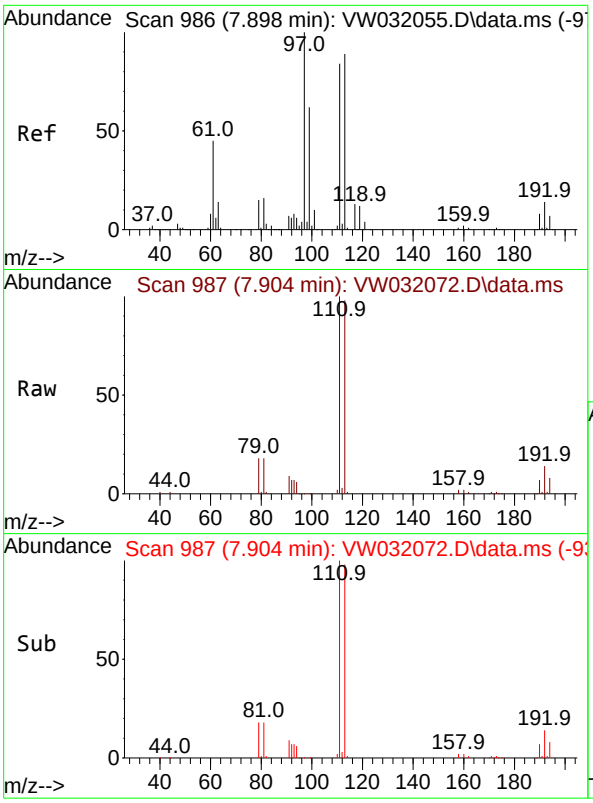




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.855 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VW032072.D
Acq: 11 Aug 2025 17:18

Tgt Ion:114 Resp: 348088

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.2 | 0.0 | 43.0 |
| 88 | 15.6 | 0.0 | 33.8 |



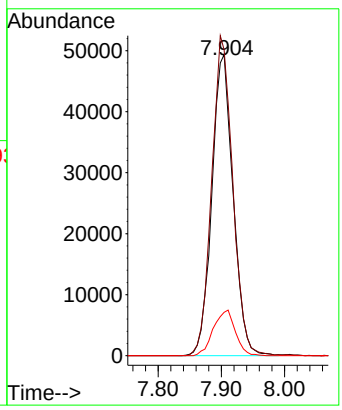


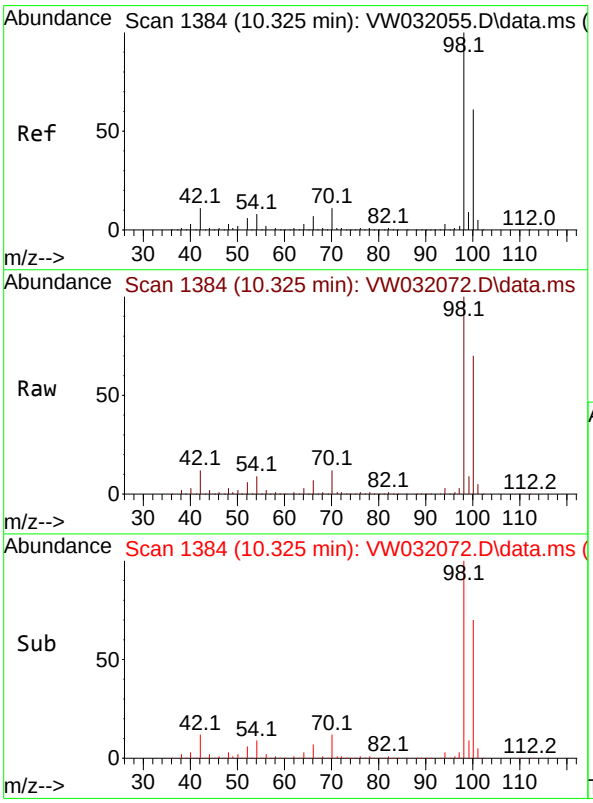

#35
Dibromofluoromethane
Concen: 51.128 ug/l
RT: 7.904 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032072.D
Acq: 11 Aug 2025 17:18

**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-E

Tgt Ion:113 Resp: 114977

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 105.1 | 80.1 | 120.1 |
| 192 | 15.6 | 13.1 | 19.7 |

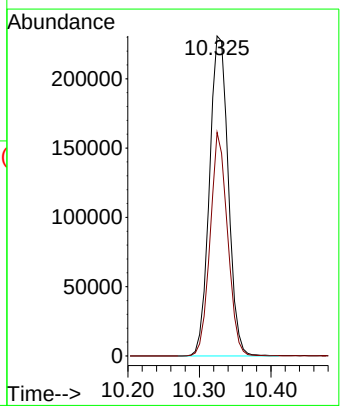


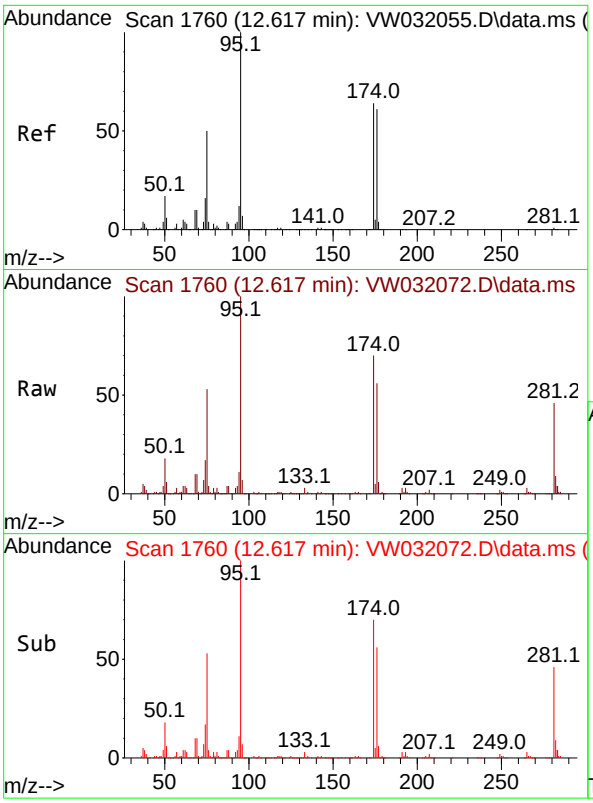




#50
Toluene-d8
Concen: 50.587 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032072.D
Acq: 11 Aug 2025 17:18

Tgt Ion: 98 Resp: 420764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.8 | 51.1 | 76.7 |



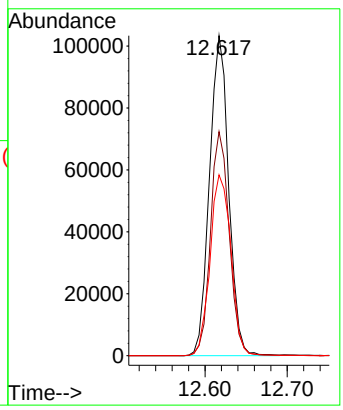


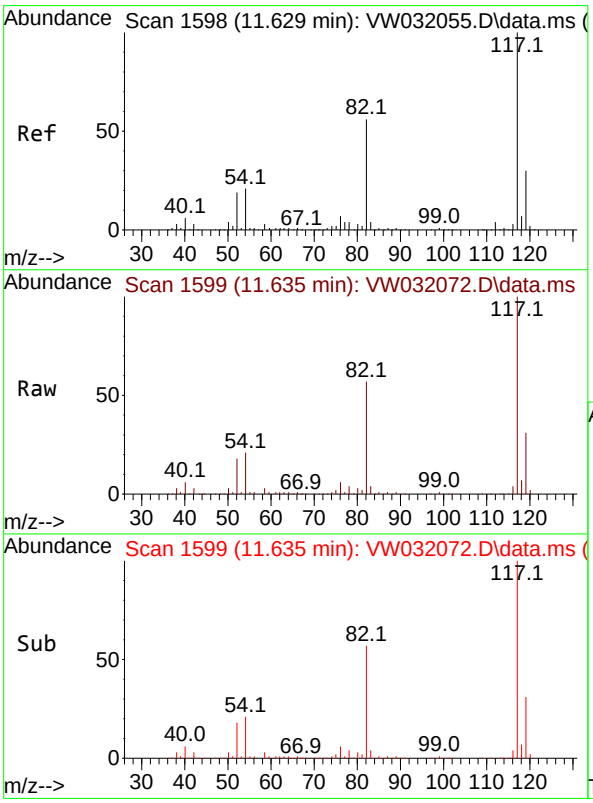

#62
4-Bromofluorobenzene
Concen: 54.628 ug/l
RT: 12.617 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032072.D
Acq: 11 Aug 2025 17:18

**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-E

Tgt Ion: 95 Resp: 167444

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 68.5 | 0.0 | 129.0 |
| 176 | 61.5 | 0.0 | 124.6 |

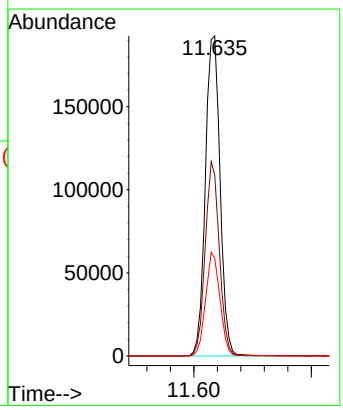


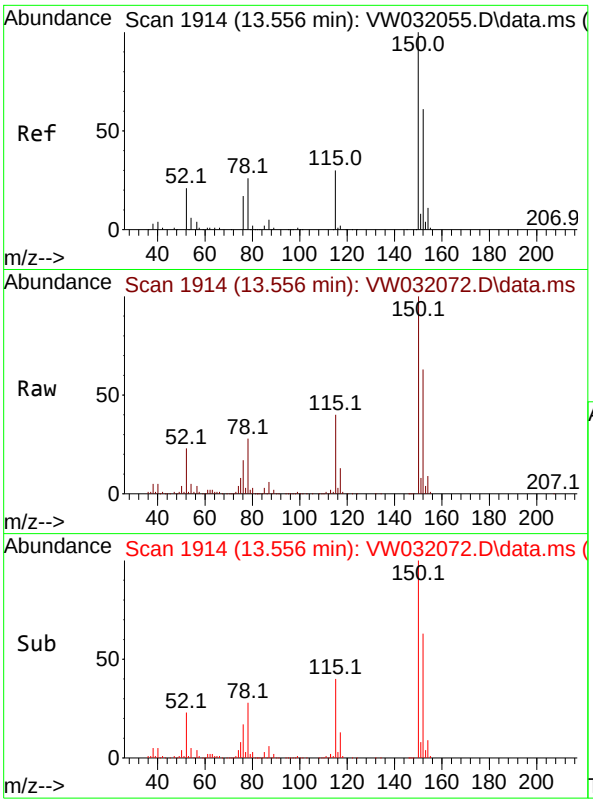




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 1599
Delta R.T. 0.006 min
Lab File: VW032072.D
Acq: 11 Aug 2025 17:18

Tgt Ion:117 Resp: 335072

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 56.7 | 45.0 | 67.4 |
| 119 | 30.6 | 24.2 | 36.4 |



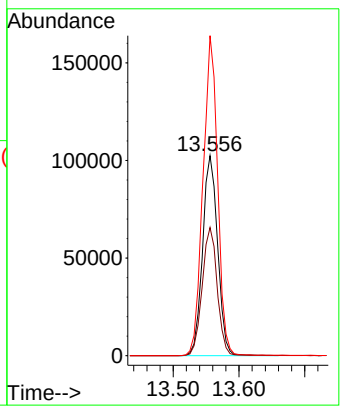



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032072.D
Acq: 11 Aug 2025 17:18

**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-E

Tgt Ion:152 Resp: 163221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 64.0 | 32.6 | 97.8 |
| 150 | 155.6 | 0.0 | 359.4 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032072.D
Acq On : 11 Aug 2025 17:18
Operator : SY/MD
Sample : Q2819-02
Misc : 7.28g/5mL/MSVOA_W/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-E

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Title : SW846 8260

Signal : TIC: VW032072.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.167 | 366 | 374 | 385 | rVB4 | 3958 | 14411 | 1.24% | 0.221% |
| 2 | 4.960 | 493 | 504 | 522 | rBV | 10472 | 40143 | 3.46% | 0.615% |
| 3 | 7.898 | 971 | 986 | 991 | rBV2 | 156549 | 372873 | 32.14% | 5.709% |
| 4 | 7.959 | 991 | 996 | 1010 | rVB | 235146 | 528740 | 45.58% | 8.096% |
| 5 | 8.319 | 1044 | 1055 | 1070 | rBV | 159713 | 361106 | 31.13% | 5.529% |
| 6 | 8.849 | 1133 | 1142 | 1155 | rBV | 394343 | 814037 | 70.17% | 12.464% |
| 7 | 10.325 | 1376 | 1384 | 1399 | rBV | 619383 | 1113741 | 96.01% | 17.053% |
| 8 | 11.629 | 1591 | 1598 | 1608 | rBV | 604159 | 1031178 | 88.89% | 15.789% |
| 9 | 12.611 | 1750 | 1759 | 1773 | rBV3 | 594576 | 1160023 | 100.00% | 17.762% |
| 10 | 13.501 | 1894 | 1905 | 1908 | rBV3 | 7740 | 14462 | 1.25% | 0.221% |
| 11 | 13.556 | 1908 | 1914 | 1926 | rVB | 640249 | 1020585 | 87.98% | 15.627% |
| 12 | 14.062 | 1990 | 1997 | 2002 | rBV | 27571 | 41774 | 3.60% | 0.640% |
| 13 | 15.476 | 2223 | 2229 | 2235 | rBV | 9640 | 17797 | 1.53% | 0.273% |

Sum of corrected areas: 6530870

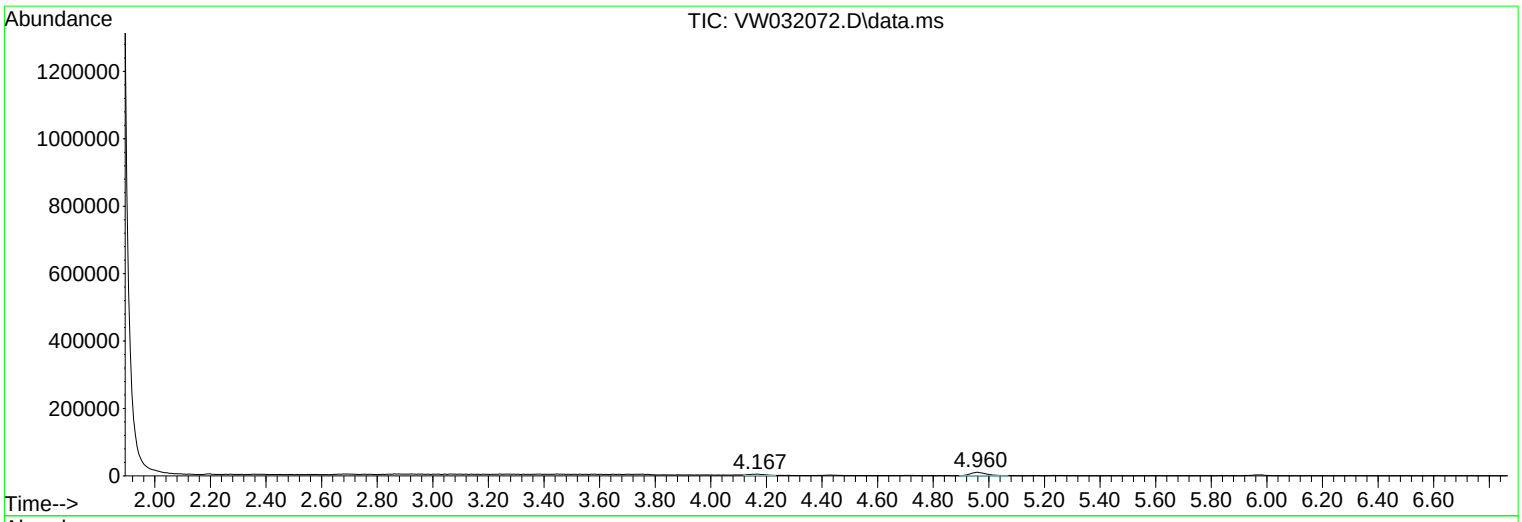
Sample Results: **VW032072.D**

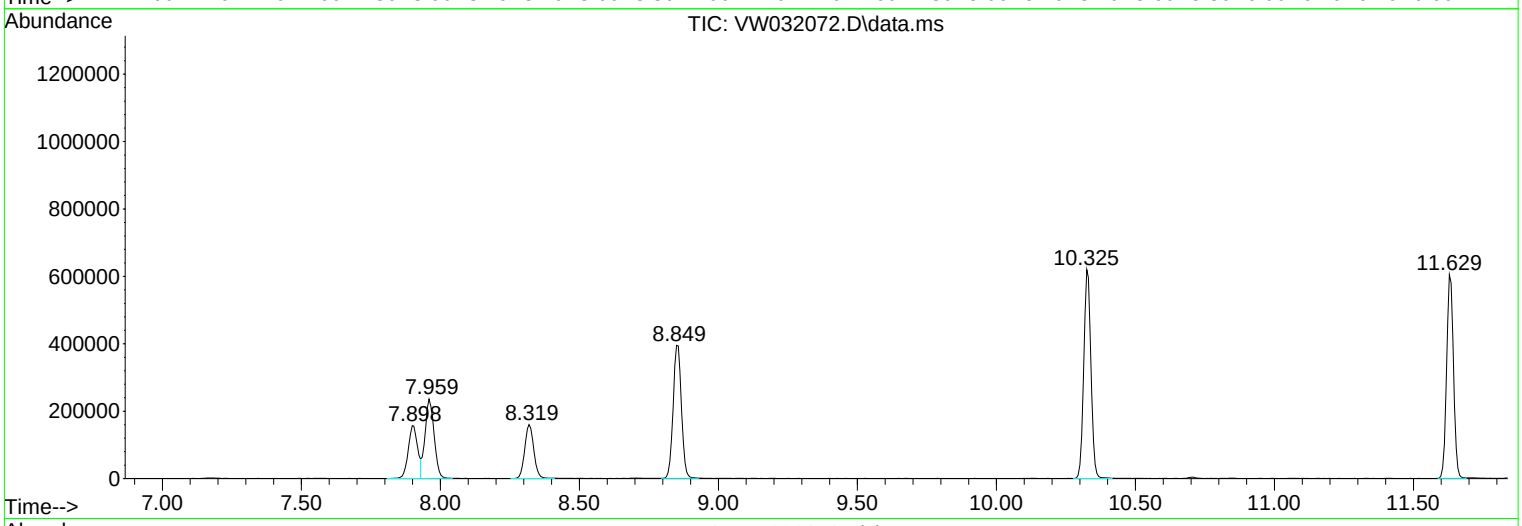
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032072.D
Acq On : 11 Aug 2025 17:18
Operator : SY/MD
Sample : Q2819-02
Misc : 7.28g/5mL/MSVOA_W/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

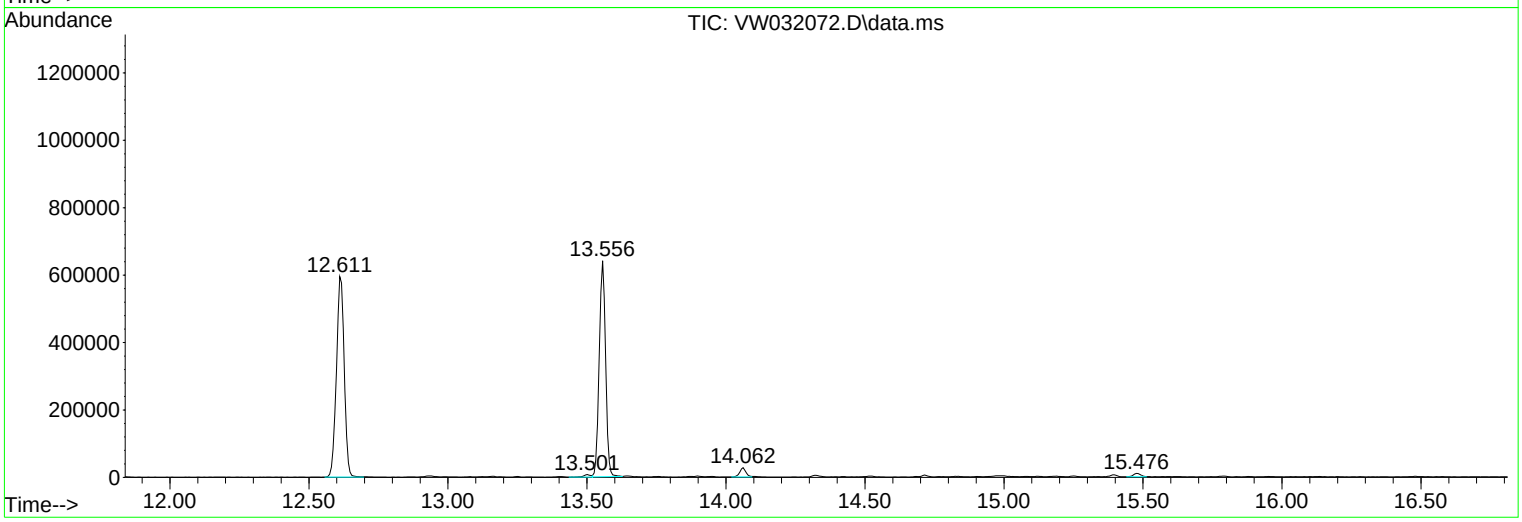
**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032072.D
Acq On : 11 Aug 2025 17:18
Operator : SY/MD
Sample : Q2819-02
Misc : 7.28g/5mL/MSVOA_W/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
**********

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032072.D
Acq On : 11 Aug 2025 17:18
Operator : SY/MD
Sample : Q2819-02
Misc : 7.28g/5mL/MSVOA_W/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/04/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 22BP-W | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-03 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 85.8 |
| Sample Wt/Vol: | 7.53 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VW032073.D | 1 | 08/11/25 17:41 | VW081125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 3.10 | U | 0.88 | 3.10 | 3.90 | ug/Kg |
| 74-87-3 | Chloromethane | 1.90 | U | 0.88 | 1.90 | 3.90 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 1.90 | U | 0.61 | 1.90 | 3.90 | ug/Kg |
| 74-83-9 | Bromomethane | 3.10 | U | 0.83 | 3.10 | 3.90 | ug/Kg |
| 75-00-3 | Chloroethane | 1.90 | U | 0.98 | 1.90 | 3.90 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 3.10 | U | 0.94 | 3.10 | 3.90 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 1.90 | U | 0.82 | 1.90 | 3.90 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 1.90 | U | 0.77 | 1.90 | 3.90 | ug/Kg |
| 67-64-1 | Acetone | 15.5 | U | 3.70 | 15.5 | 19.3 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 1.30 | J | 0.82 | 3.10 | 3.90 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 1.90 | U | 0.56 | 1.90 | 3.90 | ug/Kg |
| 79-20-9 | Methyl Acetate | 3.10 | U | 1.20 | 3.10 | 3.90 | ug/Kg |
| 75-09-2 | Methylene Chloride | 6.20 | U | 2.70 | 6.20 | 7.70 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 1.90 | U | 0.67 | 1.90 | 3.90 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 1.90 | U | 0.62 | 1.90 | 3.90 | ug/Kg |
| 110-82-7 | Cyclohexane | 1.90 | U | 0.61 | 1.90 | 3.90 | ug/Kg |
| 78-93-3 | 2-Butanone | 15.5 | U | 5.10 | 15.5 | 19.3 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 1.90 | U | 0.75 | 1.90 | 3.90 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 1.90 | U | 0.58 | 1.90 | 3.90 | ug/Kg |
| 74-97-5 | Bromochloromethane | 3.10 | U | 0.89 | 3.10 | 3.90 | ug/Kg |
| 67-66-3 | Chloroform | 3.10 | U | 0.65 | 3.10 | 3.90 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 1.90 | U | 0.72 | 1.90 | 3.90 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 1.90 | U | 0.70 | 1.90 | 3.90 | ug/Kg |
| 71-43-2 | Benzene | 1.90 | U | 0.61 | 1.90 | 3.90 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 1.90 | U | 0.61 | 1.90 | 3.90 | ug/Kg |
| 79-01-6 | Trichloroethene | 1.90 | U | 0.63 | 1.90 | 3.90 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 1.90 | U | 0.70 | 1.90 | 3.90 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 1.90 | U | 0.60 | 1.90 | 3.90 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 9.70 | U | 2.80 | 9.70 | 19.3 | ug/Kg |
| 108-88-3 | Toluene | 1.90 | U | 0.60 | 1.90 | 3.90 | ug/Kg |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/04/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 22BP-W | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-03 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 85.8 |
| Sample Wt/Vol: | 7.53 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VW032073.D | 1 | 08/11/25 17:41 | VW081125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 1.90 | U | 0.50 | 1.90 | 3.90 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.90 | U | 0.48 | 1.90 | 3.90 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 1.90 | U | 0.71 | 1.90 | 3.90 | ug/Kg |
| 591-78-6 | 2-Hexanone | 9.70 | U | 2.90 | 9.70 | 19.3 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 1.90 | U | 0.67 | 1.90 | 3.90 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 1.90 | U | 0.68 | 1.90 | 3.90 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 1.90 | U | 0.81 | 1.90 | 3.90 | ug/Kg |
| 108-90-7 | Chlorobenzene | 1.90 | U | 0.70 | 1.90 | 3.90 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 1.90 | U | 0.52 | 1.90 | 3.90 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 3.90 | U | 0.96 | 3.90 | 7.70 | ug/Kg |
| 95-47-6 | o-Xylene | 1.90 | U | 0.63 | 1.90 | 3.90 | ug/Kg |
| 100-42-5 | Styrene | 1.90 | U | 0.55 | 1.90 | 3.90 | ug/Kg |
| 75-25-2 | Bromoform | 1.90 | U | 0.67 | 1.90 | 3.90 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 1.90 | U | 0.60 | 1.90 | 3.90 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.90 | U | 0.94 | 1.90 | 3.90 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 1.90 | U | 1.30 | 1.90 | 3.90 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 1.90 | U | 1.20 | 1.90 | 3.90 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 1.90 | U | 1.10 | 1.90 | 3.90 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 3.10 | U | 1.40 | 3.10 | 3.90 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 3.10 | U | 2.30 | 3.10 | 3.90 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 3.10 | U | 2.50 | 3.10 | 3.90 | ug/Kg |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 56.6 | | 71 - 136 | | 113% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 52.9 | | 78 - 119 | | 106% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 49.7 | | 85 - 116 | | 99% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 51.4 | | 79 - 119 | | 103% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 163000 | 7.965 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 351000 | 8.855 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 336000 | 11.629 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 148000 | 13.556 | | | | |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/04/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 22BP-W | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-03 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 85.8 |
| Sample Wt/Vol: | 7.53 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VW032073.D | 1 | 08/11/25 17:41 | VW081125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032073.D
Acq On : 11 Aug 2025 17:41
Operator : SY/MD
Sample : Q2819-03
Misc : 7.53g/5mL/MSVOA_W/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-W

Quant Time: Aug 12 04:28:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

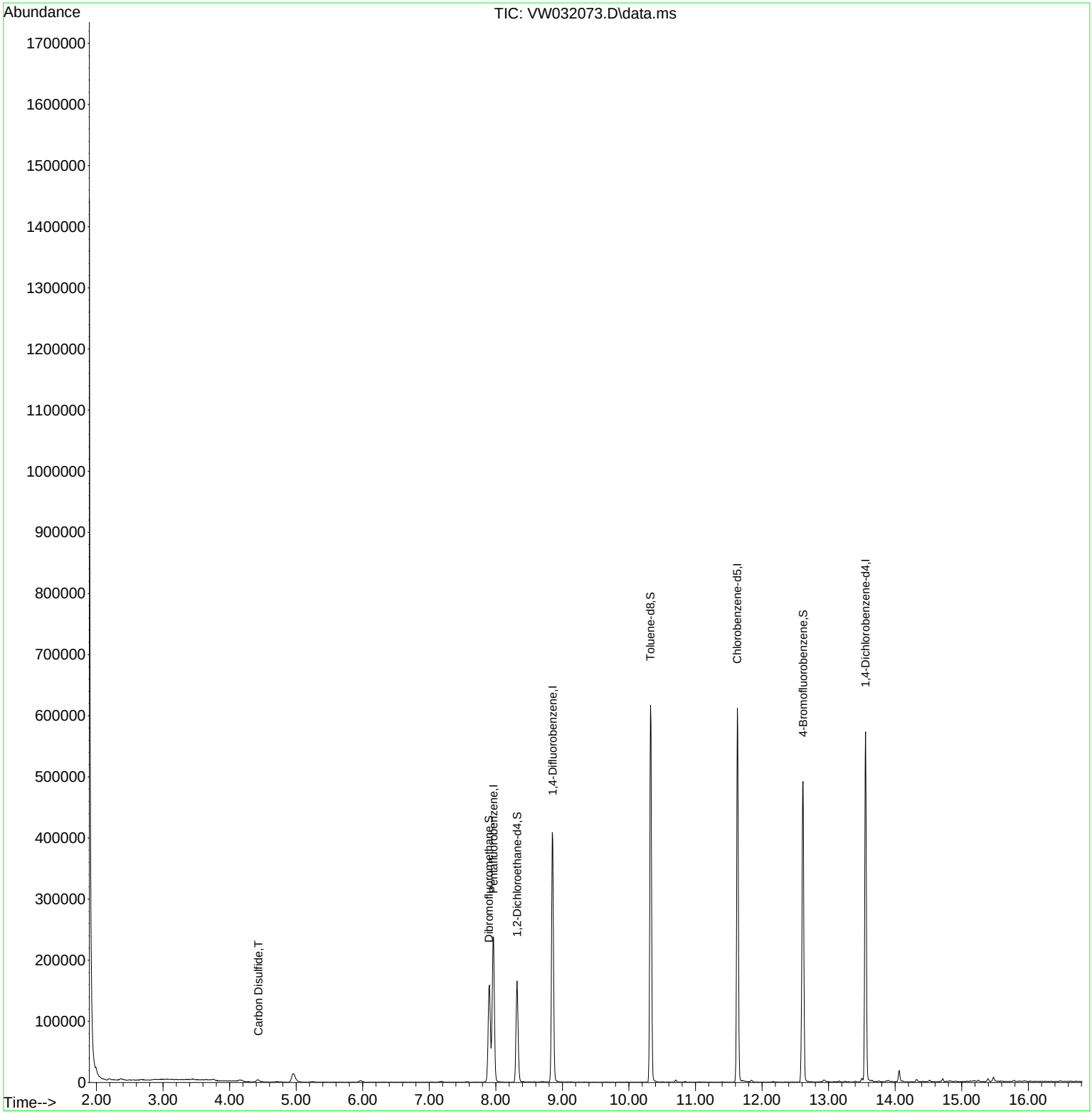
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.965 | 168 | 162776 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.855 | 114 | 351013 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.629 | 117 | 336246 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.556 | 152 | 147943 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.319 | 65 | 133180 | 56.571 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 63 - 155 | | Recovery = 113.140% | | | |
| 35) Dibromofluoromethane | 7.898 | 113 | 119888 | 52.868 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 70 - 134 | | Recovery = 105.740% | | | |
| 50) Toluene-d8 | 10.325 | 98 | 416921 | 49.708 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 123 | | Recovery = 99.420% | | | |
| 62) 4-Bromofluorobenzene | 12.617 | 95 | 158734 | 51.355 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 17 - 146 | | Recovery = 102.720% | | | |
| Target Compounds | | | | | | Qvalue |
| 17) Carbon Disulfide | 4.436 | 76 | 8722 | 1.646 | ug/l | 98 |

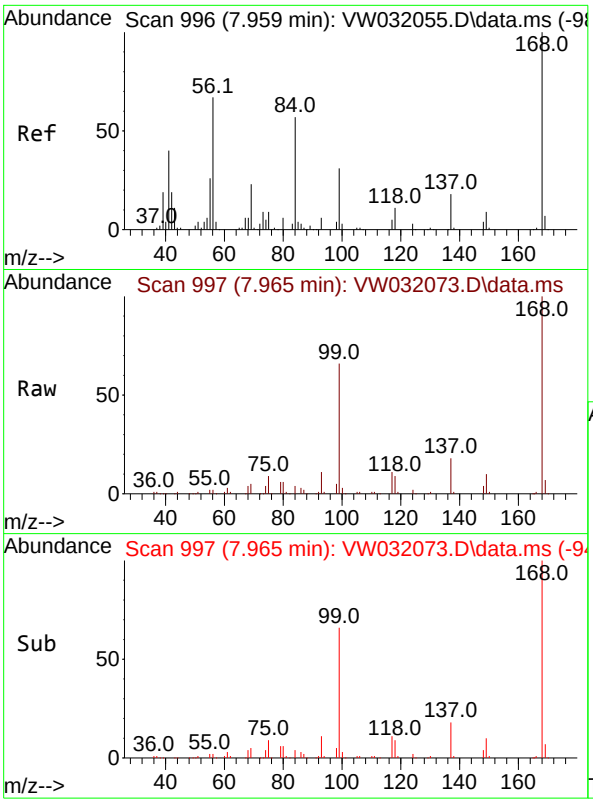
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032073.D
Acq On : 11 Aug 2025 17:41
Operator : SY/MD
Sample : Q2819-03
Misc : 7.53g/5mL/MSVOA_W/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-W

Quant Time: Aug 12 04:28:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration



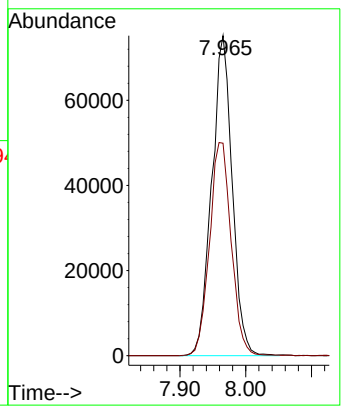


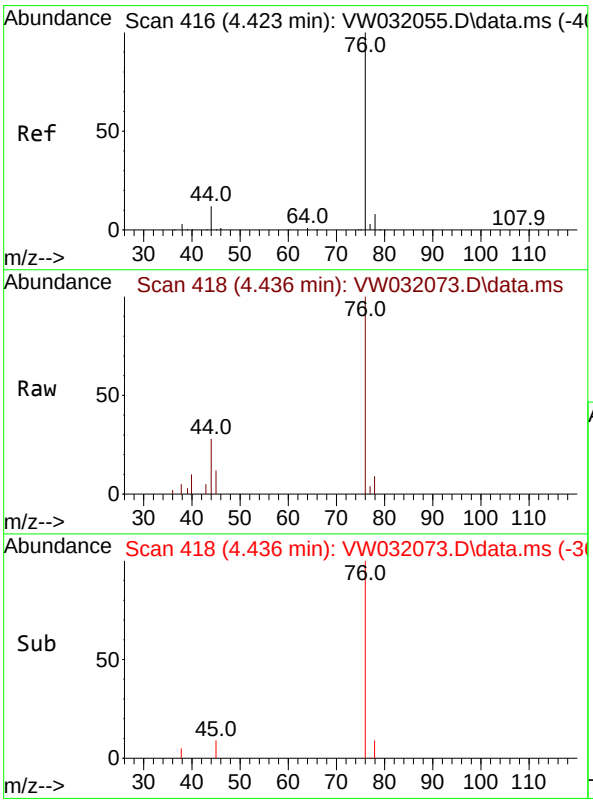

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032073.D
Acq: 11 Aug 2025 17:41

**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-W

Tgt Ion:168 Resp: 162776

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 66.4 | 56.0 | 84.0 |

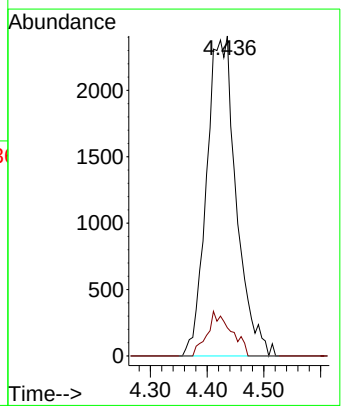


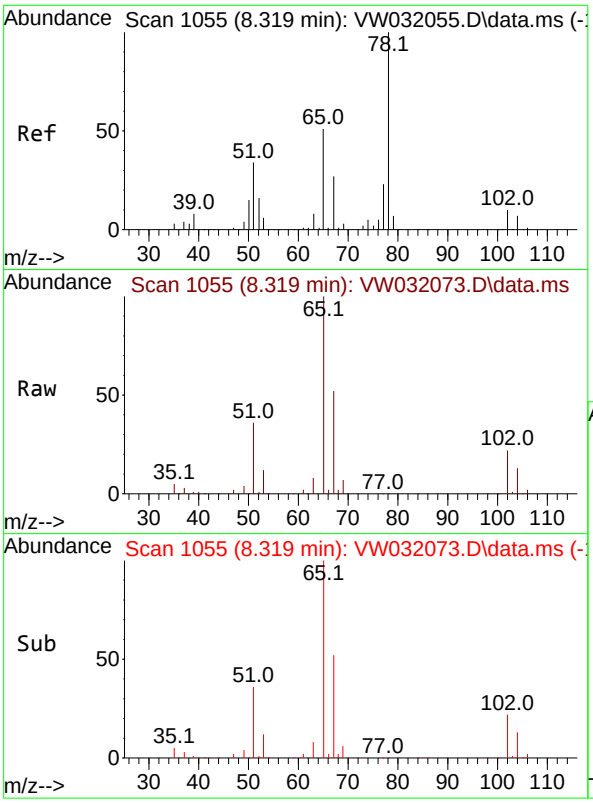




#17
Carbon Disulfide
Concen: 1.646 ug/l
RT: 4.436 min Scan# 418
Delta R.T. 0.012 min
Lab File: VW032073.D
Acq: 11 Aug 2025 17:41

Tgt Ion: 76 Resp: 8722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.8 | 6.4 | 9.6 |



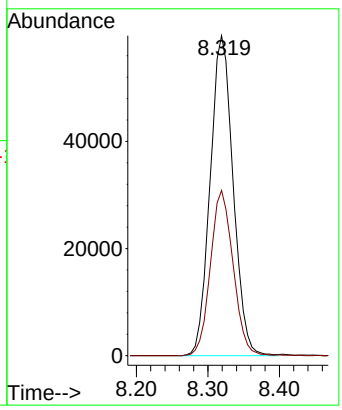


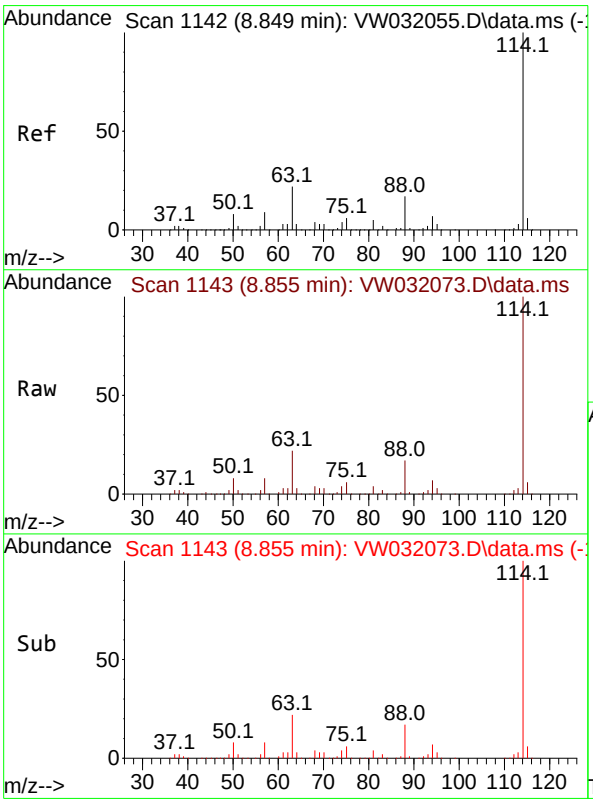

#33
1,2-Dichloroethane-d4
Concen: 56.571 ug/l
RT: 8.319 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032073.D
Acq: 11 Aug 2025 17:41

**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-W

Tgt Ion: 65 Resp: 133180

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.0 | 0.0 | 102.4 |

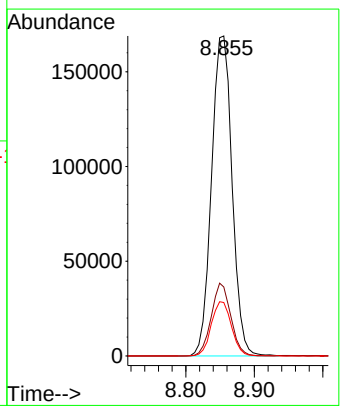


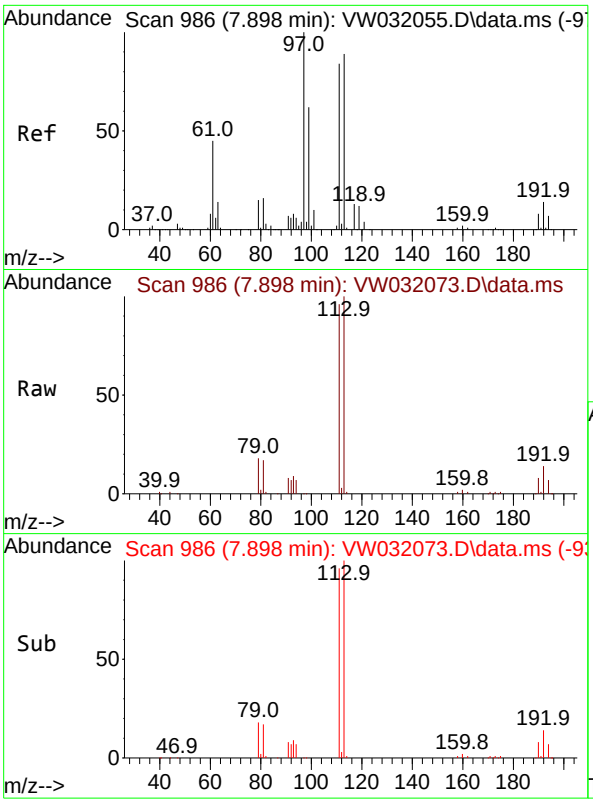




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.855 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VW032073.D
Acq: 11 Aug 2025 17:41

Tgt Ion:114 Resp: 351013

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.6 | 0.0 | 43.0 |
| 88 | 16.7 | 0.0 | 33.8 |



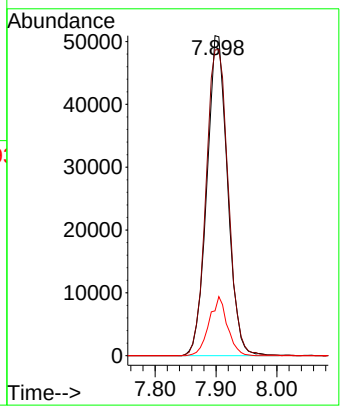


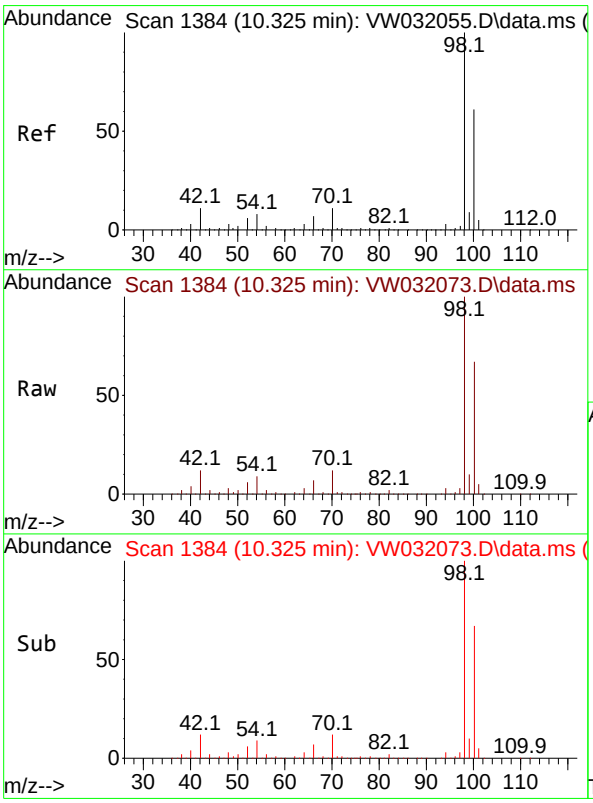

#35
Dibromofluoromethane
Concen: 52.868 ug/l
RT: 7.898 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032073.D
Acq: 11 Aug 2025 17:41

**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-W

Tgt Ion:113 Resp: 119888

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.8 | 80.1 | 120.1 |
| 192 | 16.3 | 13.1 | 19.7 |

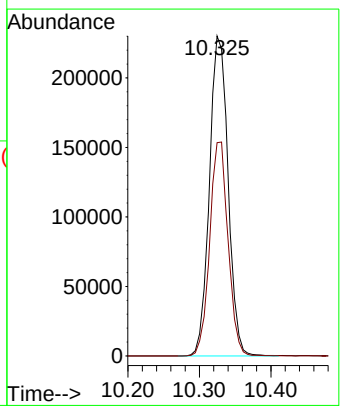


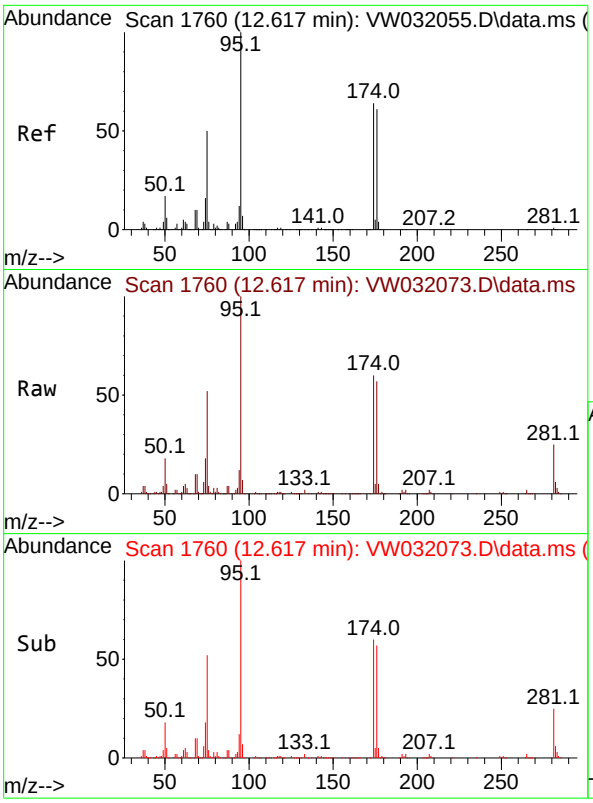




#50
Toluene-d8
Concen: 49.708 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032073.D
Acq: 11 Aug 2025 17:41

Tgt Ion: 98 Resp: 416921

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.7 | 51.1 | 76.7 |



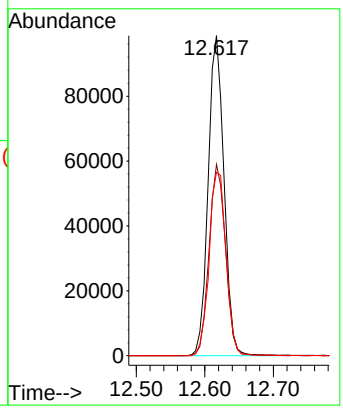


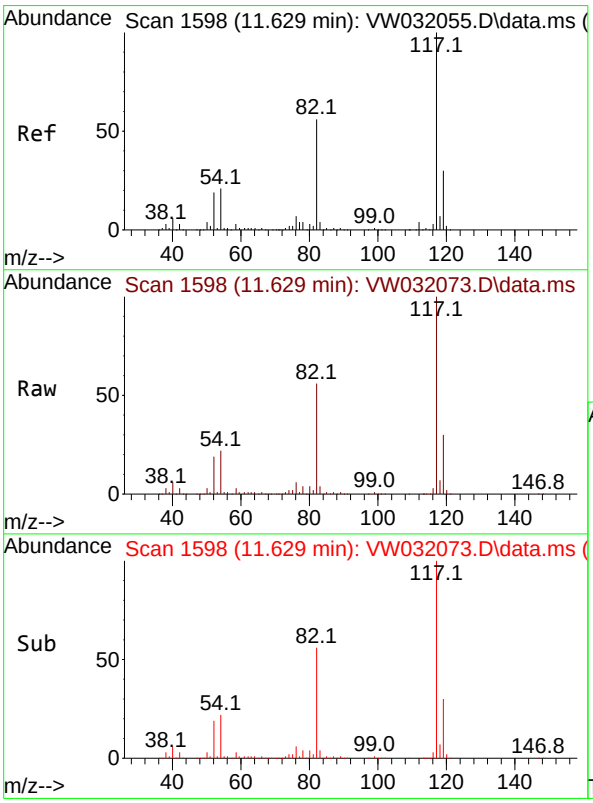

#62
4-Bromofluorobenzene
Concen: 51.355 ug/l
RT: 12.617 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032073.D
Acq: 11 Aug 2025 17:41

**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-W

Tgt Ion: 95 Resp: 158734

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 61.9 | 0.0 | 129.0 |
| 176 | 61.4 | 0.0 | 124.6 |

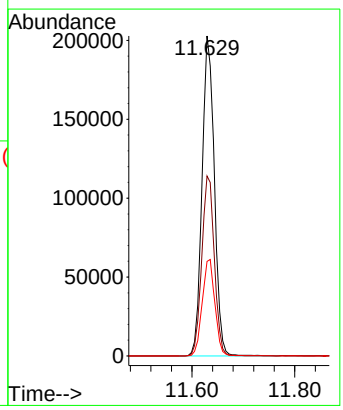


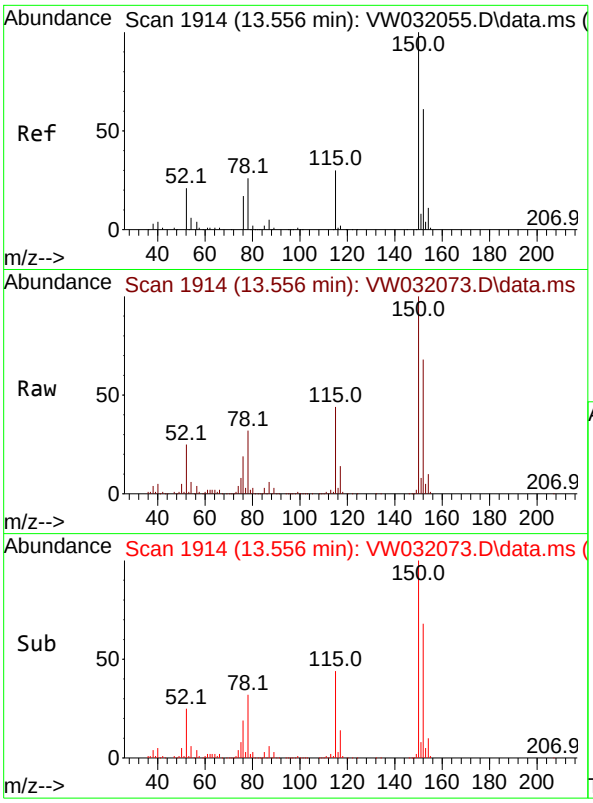




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VW032073.D
Acq: 11 Aug 2025 17:41

Tgt Ion:117 Resp: 336246

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 56.3 | 45.0 | 67.4 |
| 119 | 29.6 | 24.2 | 36.4 |



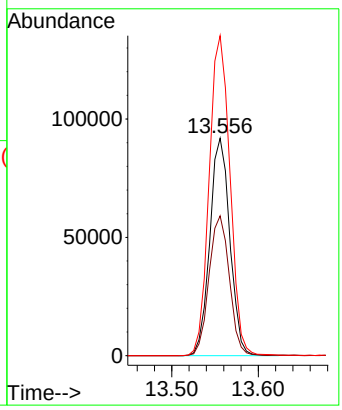



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032073.D
Acq: 11 Aug 2025 17:41

**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-W

Tgt Ion:152 Resp: 147943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 65.2 | 32.6 | 97.8 |
| 150 | 152.5 | 0.0 | 359.4 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032073.D
Acq On : 11 Aug 2025 17:41
Operator : SY/MD
Sample : Q2819-03
Misc : 7.53g/5mL/MSVOA_W/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-W

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Title : SW846 8260

Signal : TIC: VW032073.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.954 | 492 | 503 | 520 | rBV3 | 13800 | 56125 | 5.06% | 0.900% |
| 2 | 7.904 | 975 | 987 | 991 | rBV | 157683 | 379070 | 34.16% | 6.077% |
| 3 | 7.959 | 991 | 996 | 1011 | rVB | 236996 | 540810 | 48.73% | 8.671% |
| 4 | 8.319 | 1045 | 1055 | 1067 | rBV | 165725 | 360950 | 32.52% | 5.787% |
| 5 | 8.849 | 1133 | 1142 | 1161 | rVB | 408609 | 834963 | 75.23% | 13.387% |
| 6 | 10.325 | 1376 | 1384 | 1402 | rBV | 616742 | 1109810 | 100.00% | 17.793% |
| 7 | 11.629 | 1591 | 1598 | 1608 | rBV | 611852 | 1033499 | 93.12% | 16.570% |
| 8 | 12.617 | 1750 | 1760 | 1770 | rBV2 | 491825 | 948450 | 85.46% | 15.206% |
| 9 | 13.556 | 1908 | 1914 | 1926 | rVB | 571250 | 929902 | 83.79% | 14.909% |
| 10 | 14.062 | 1991 | 1997 | 2002 | rBV | 17877 | 29402 | 2.65% | 0.471% |
| 11 | 15.476 | 2222 | 2229 | 2237 | rBV | 7170 | 14326 | 1.29% | 0.230% |

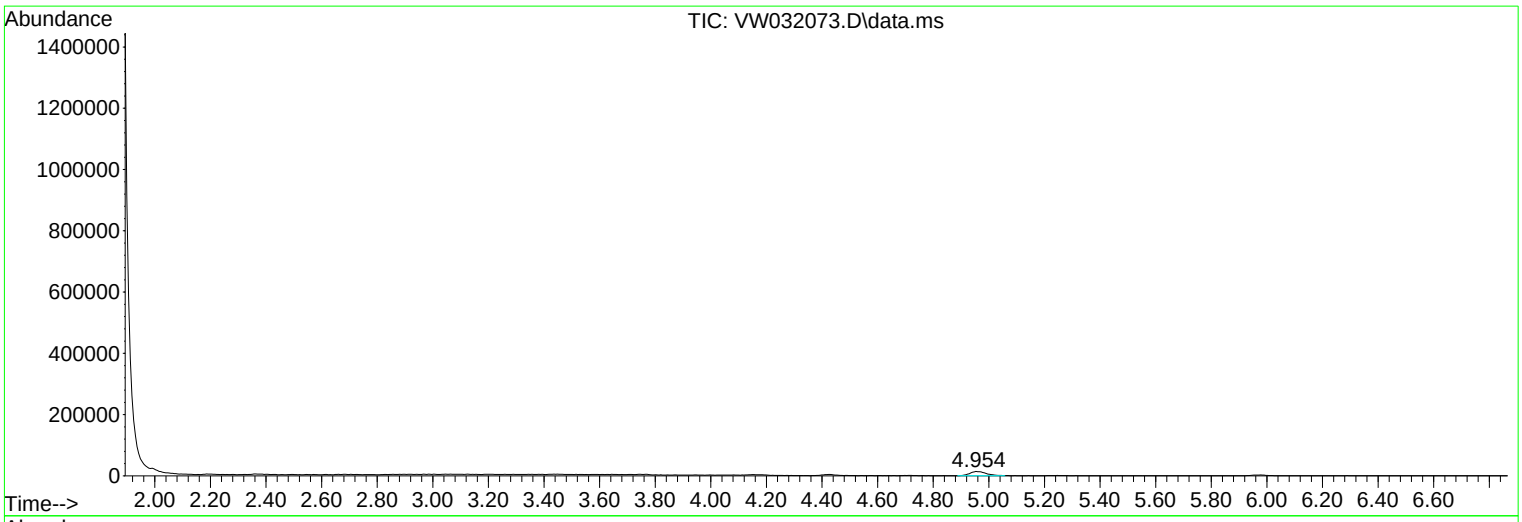
Sum of corrected areas: 6237307

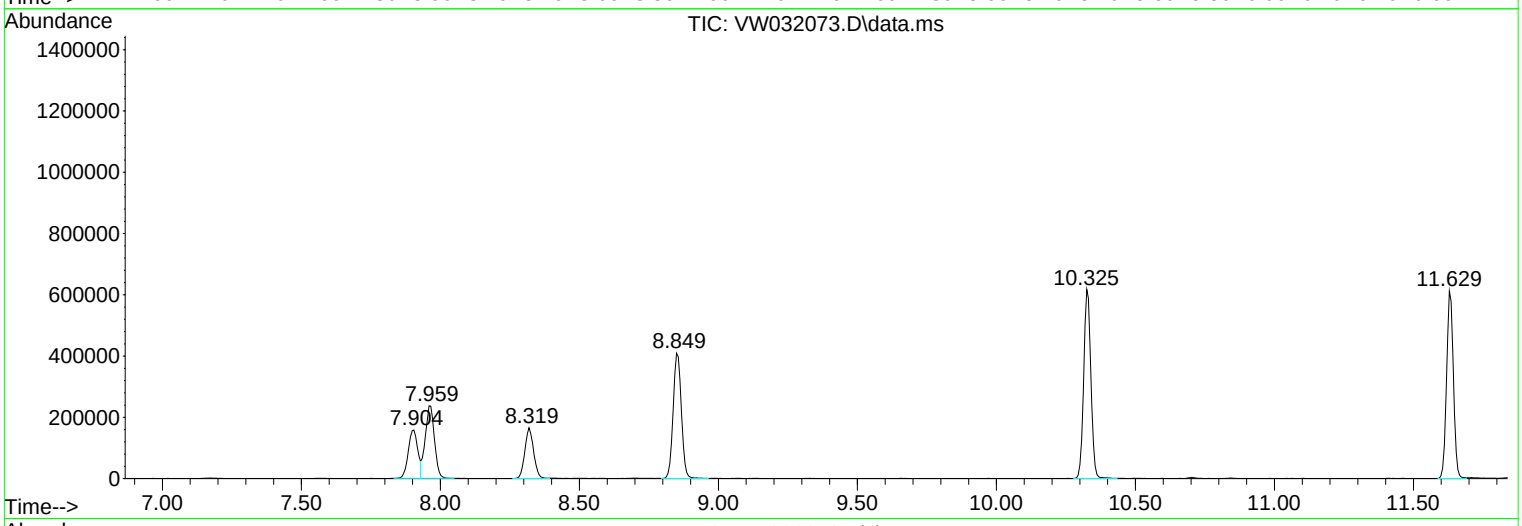
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032073.D
Acq On : 11 Aug 2025 17:41
Operator : SY/MD
Sample : Q2819-03
Misc : 7.53g/5mL/MSVOA_W/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

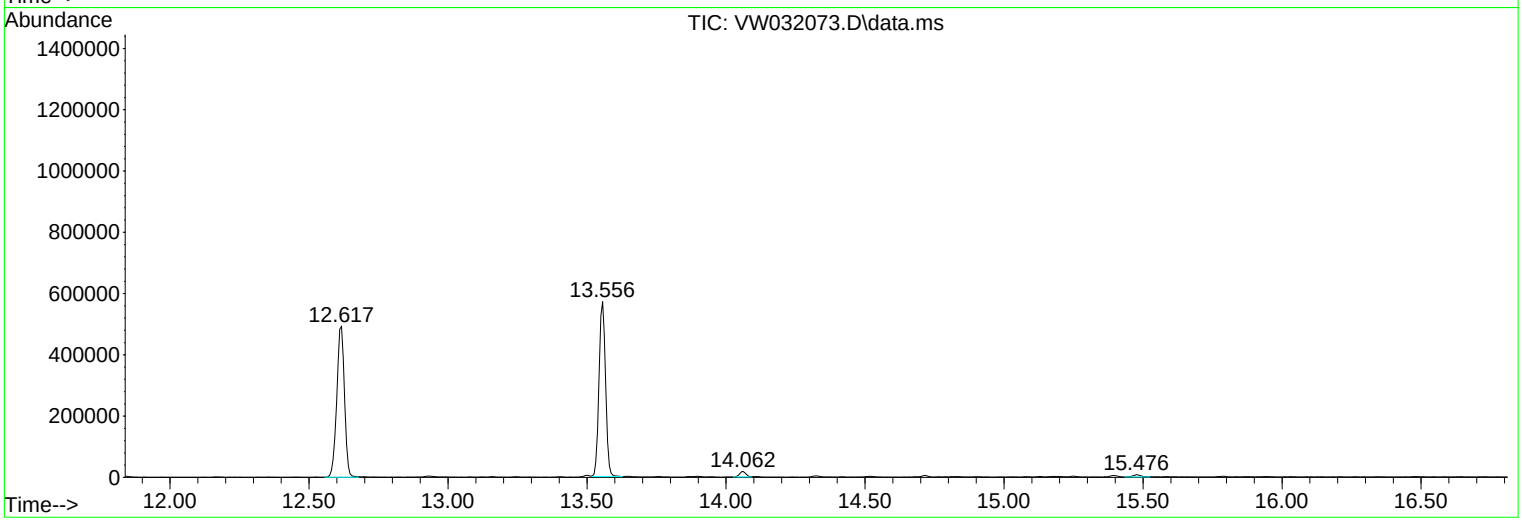
**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032073.D
Acq On : 11 Aug 2025 17:41
Operator : SY/MD
Sample : Q2819-03
Misc : 7.53g/5mL/MSVOA_W/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032073.D
Acq On : 11 Aug 2025 17:41
Operator : SY/MD
Sample : Q2819-03
Misc : 7.53g/5mL/MSVOA_W/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/04/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 22BP-S | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-04 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 88.1 |
| Sample Wt/Vol: | 5.68 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VW032074.D | 1 | 08/11/25 18:03 | VW081125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/Kg |
| 74-87-3 | Chloromethane | 2.50 | U | 1.10 | 2.50 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 2.50 | U | 0.79 | 2.50 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 2.50 | U | 1.30 | 2.50 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 4.00 | U | 1.20 | 4.00 | 5.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 2.50 | U | 1.10 | 2.50 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 2.50 | U | 1.00 | 2.50 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 20.0 | U | 4.70 | 20.0 | 25.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 1.50 | J | 1.10 | 4.00 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 2.50 | U | 0.73 | 2.50 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 4.00 | U | 1.50 | 4.00 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 8.00 | U | 3.50 | 8.00 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 2.50 | U | 0.86 | 2.50 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 2.50 | U | 0.80 | 2.50 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 2.50 | U | 0.79 | 2.50 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 20.0 | U | 6.50 | 20.0 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 2.50 | U | 0.97 | 2.50 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 2.50 | U | 0.75 | 2.50 | 5.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 4.00 | U | 0.84 | 4.00 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 2.50 | U | 0.93 | 2.50 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 2.50 | U | 0.91 | 2.50 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 2.50 | U | 0.79 | 2.50 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 2.50 | U | 0.79 | 2.50 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 2.50 | U | 0.81 | 2.50 | 5.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 2.50 | U | 0.91 | 2.50 | 5.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 2.50 | U | 0.78 | 2.50 | 5.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 12.5 | U | 3.60 | 12.5 | 25.0 | ug/Kg |
| 108-88-3 | Toluene | 2.50 | U | 0.78 | 2.50 | 5.00 | ug/Kg |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/04/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 22BP-S | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-04 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 88.1 |
| Sample Wt/Vol: | 5.68 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VW032074.D | 1 | 08/11/25 18:03 | VW081125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 2.50 | U | 0.65 | 2.50 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 2.50 | U | 0.62 | 2.50 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 2.50 | U | 0.92 | 2.50 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 12.5 | U | 3.70 | 12.5 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 2.50 | U | 0.87 | 2.50 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 2.50 | U | 0.88 | 2.50 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 2.50 | U | 1.00 | 2.50 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 2.50 | U | 0.91 | 2.50 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 2.50 | U | 0.67 | 2.50 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 5.00 | U | 1.20 | 5.00 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 2.50 | U | 0.82 | 2.50 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 2.50 | U | 0.71 | 2.50 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 2.50 | U | 0.86 | 2.50 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 2.50 | U | 0.78 | 2.50 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 2.50 | U | 1.20 | 2.50 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 2.50 | U | 1.70 | 2.50 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 2.50 | U | 1.60 | 2.50 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 2.50 | U | 1.40 | 2.50 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 4.00 | U | 1.80 | 4.00 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.00 | U | 3.00 | 4.00 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 4.00 | U | 3.20 | 4.00 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 54.0 | | 71 - 136 | | 108% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.2 | | 78 - 119 | | 100% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 49.6 | | 85 - 116 | | 99% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 51.6 | | 79 - 119 | | 103% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 168000 | 7.959 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 354000 | 8.855 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 341000 | 11.629 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 158000 | 13.556 | | | | |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/04/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 22BP-S | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-04 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 88.1 |
| Sample Wt/Vol: | 5.68 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VW032074.D | 1 | 08/11/25 18:03 | VW081125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032074.D
Acq On : 11 Aug 2025 18:03
Operator : SY/MD
Sample : Q2819-04
Misc : 5.68g/5mL/MSVOA_W/SOIL/A
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-S

Quant Time: Aug 12 04:29:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

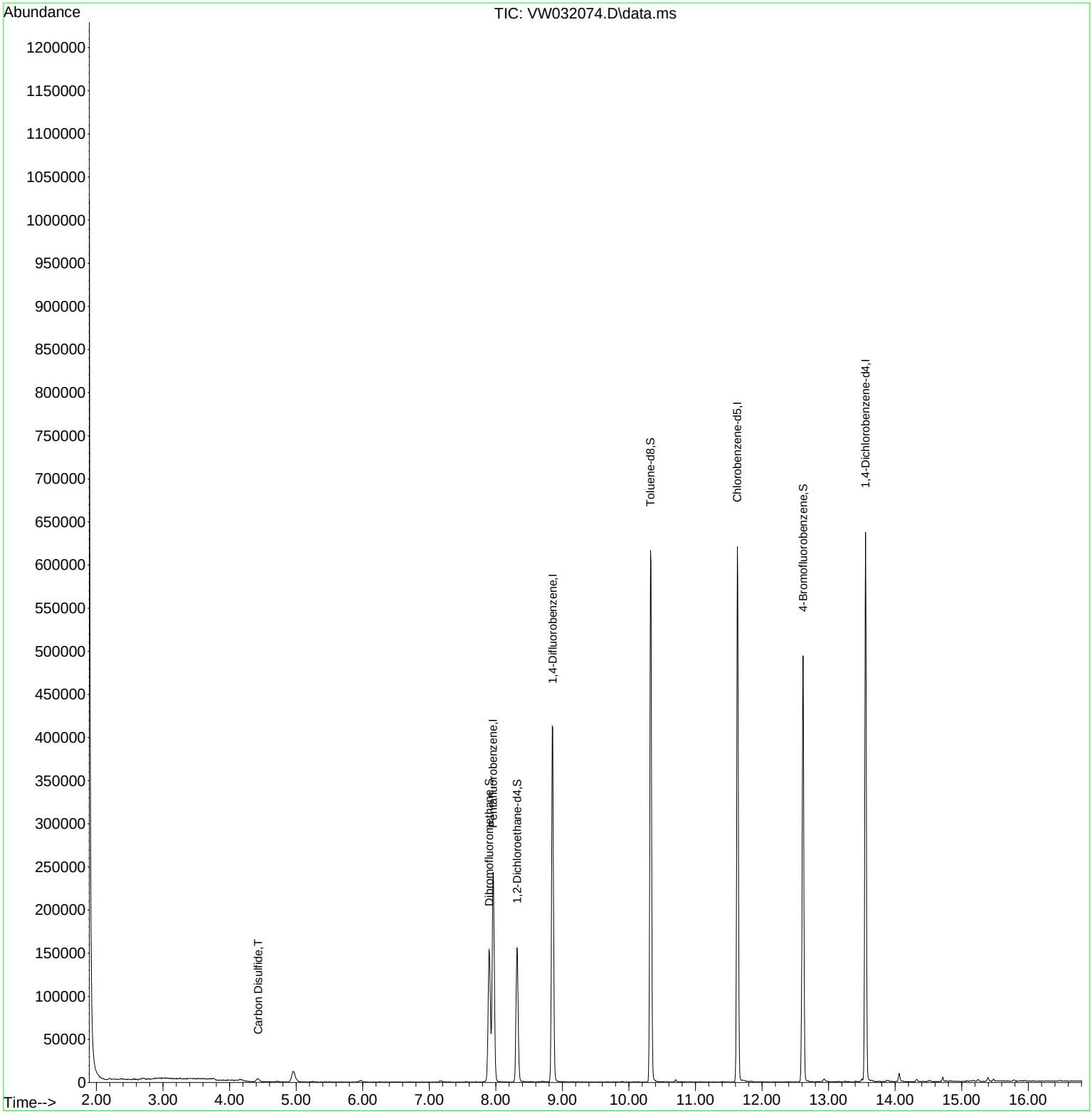
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.959 | 168 | 167919 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.855 | 114 | 354178 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.629 | 117 | 340658 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.556 | 152 | 157540 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.319 | 65 | 131102 | 53.983 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 63 - 155 | | Recovery = 107.960% | | | |
| 35) Dibromofluoromethane | 7.898 | 113 | 114884 | 50.209 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 70 - 134 | | Recovery = 100.420% | | | |
| 50) Toluene-d8 | 10.325 | 98 | 420096 | 49.639 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 123 | | Recovery = 99.280% | | | |
| 62) 4-Bromofluorobenzene | 12.617 | 95 | 161066 | 51.644 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 17 - 146 | | Recovery = 103.280% | | | |
| Target Compounds | | | | | | Qvalue |
| 17) Carbon Disulfide | 4.429 | 76 | 8408 | 1.538 | ug/l | 98 |

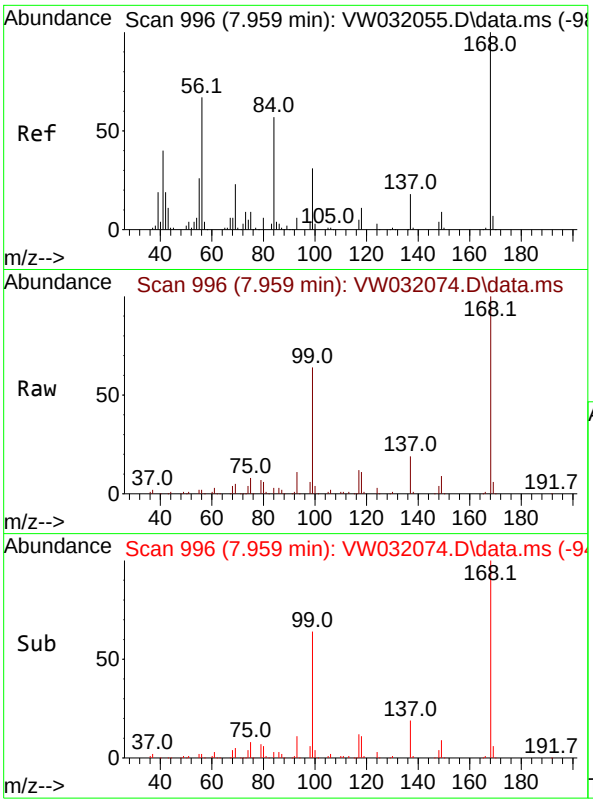
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032074.D
Acq On : 11 Aug 2025 18:03
Operator : SY/MD
Sample : Q2819-04
Misc : 5.68g/5mL/MSVOA_W/SOIL/A
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-S

Quant Time: Aug 12 04:29:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration



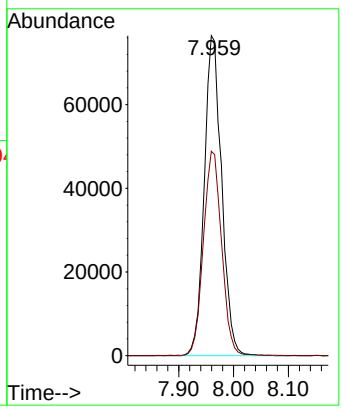


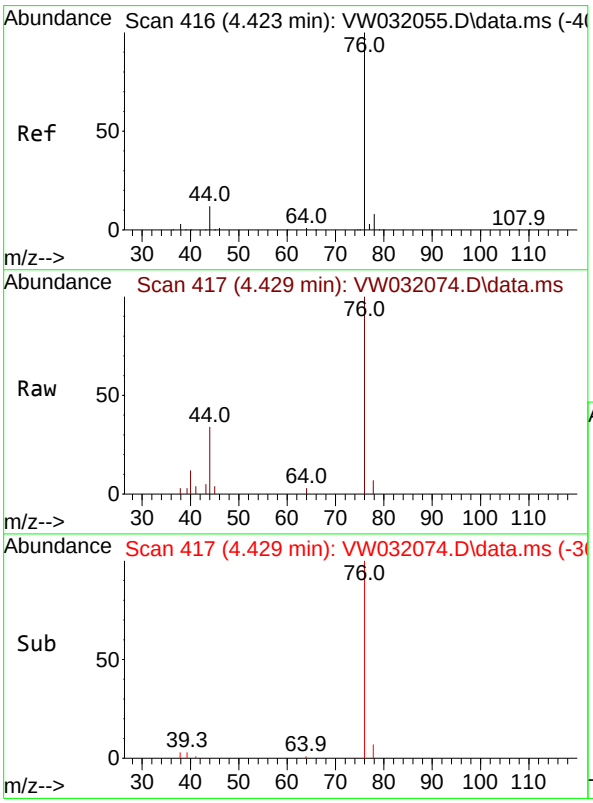

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032074.D
Acq: 11 Aug 2025 18:03

**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-S

Tgt Ion:168 Resp: 167919

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 63.8 | 56.0 | 84.0 |

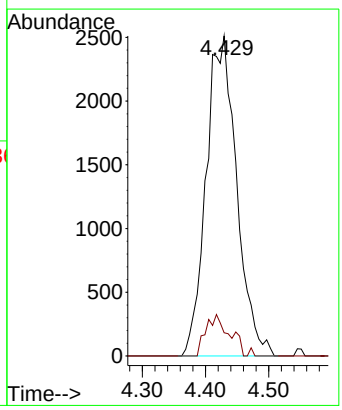


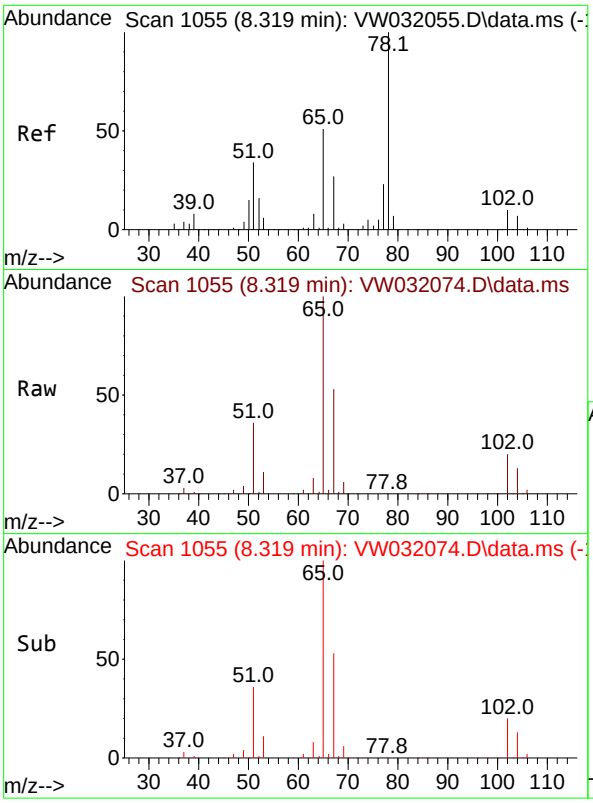




#17
Carbon Disulfide
Concen: 1.538 ug/l
RT: 4.429 min Scan# 417
Delta R.T. 0.006 min
Lab File: VW032074.D
Acq: 11 Aug 2025 18:03

Tgt Ion: 76 Resp: 8408

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 7.2 | 6.4 | 9.6 |



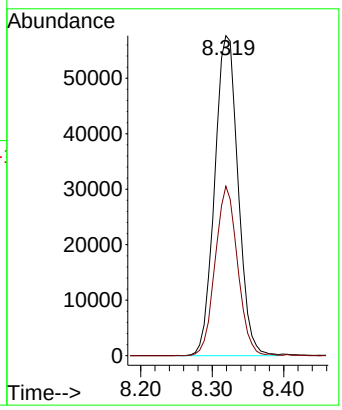


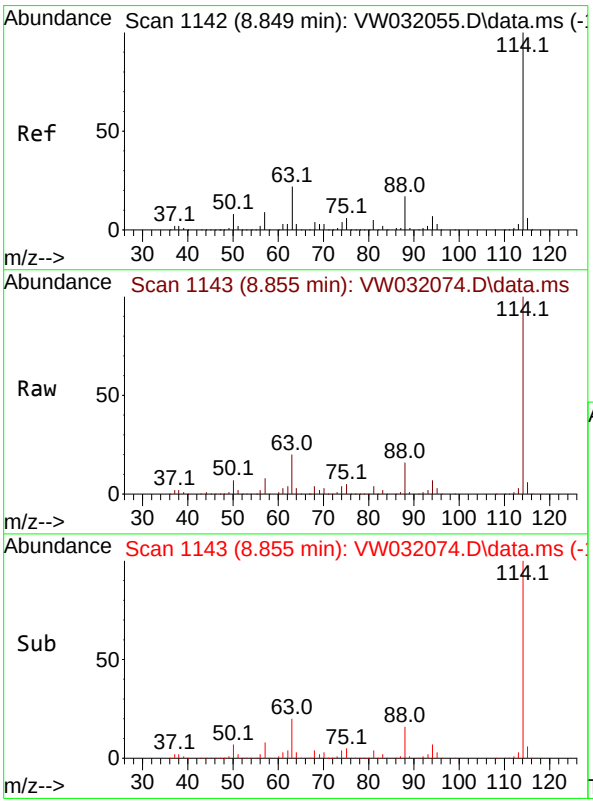

#33
1,2-Dichloroethane-d4
Concen: 53.983 ug/l
RT: 8.319 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032074.D
Acq: 11 Aug 2025 18:03

**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-S

Tgt Ion: 65 Resp: 131102

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 50.8 | 0.0 | 102.4 |

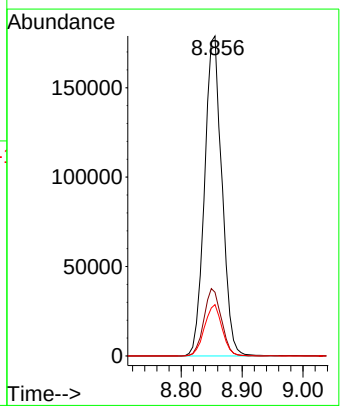


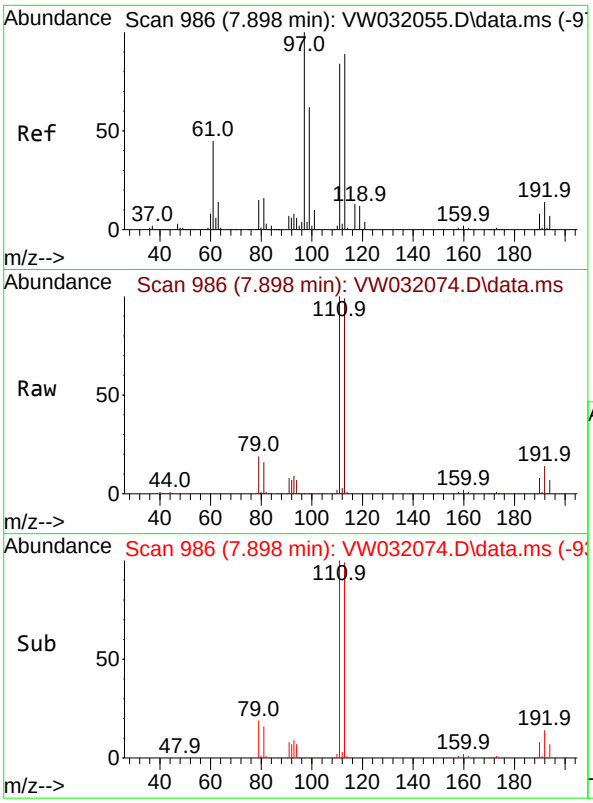




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.855 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VW032074.D
Acq: 11 Aug 2025 18:03

Tgt Ion:114 Resp: 354178

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.9 | 0.0 | 43.0 |
| 88 | 16.0 | 0.0 | 33.8 |



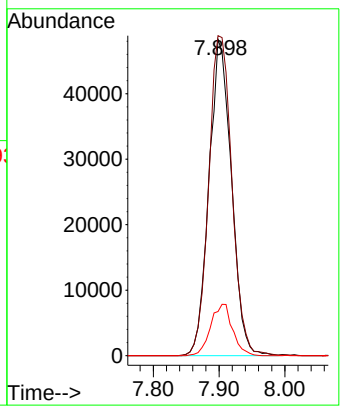


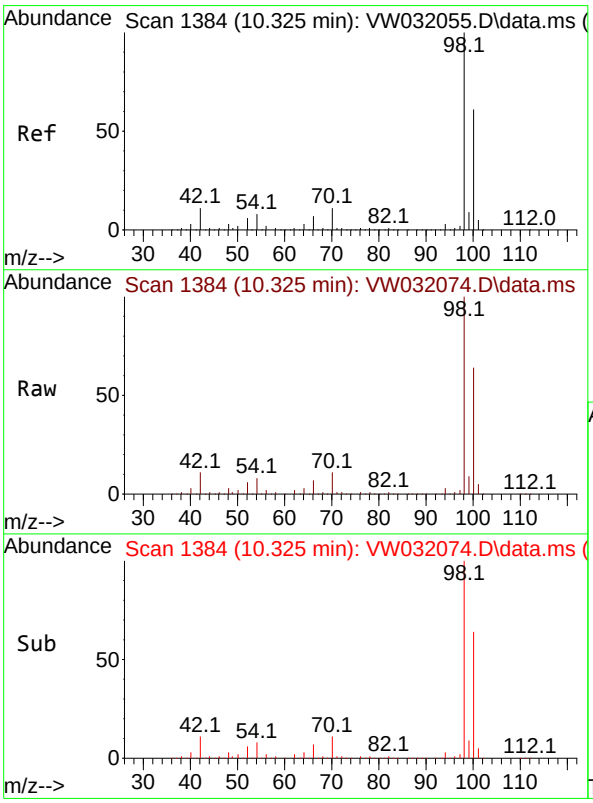

#35
Dibromofluoromethane
Concen: 50.209 ug/l
RT: 7.898 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032074.D
Acq: 11 Aug 2025 18:03

**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-S

Tgt Ion:113 Resp: 114884

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 104.4 | 80.1 | 120.1 |
| 192 | 15.9 | 13.1 | 19.7 |

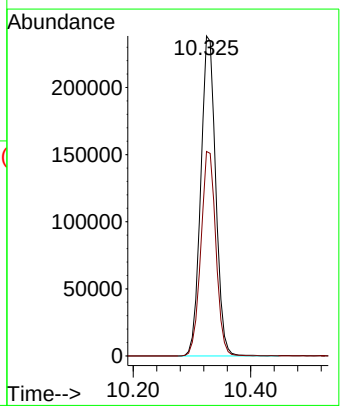


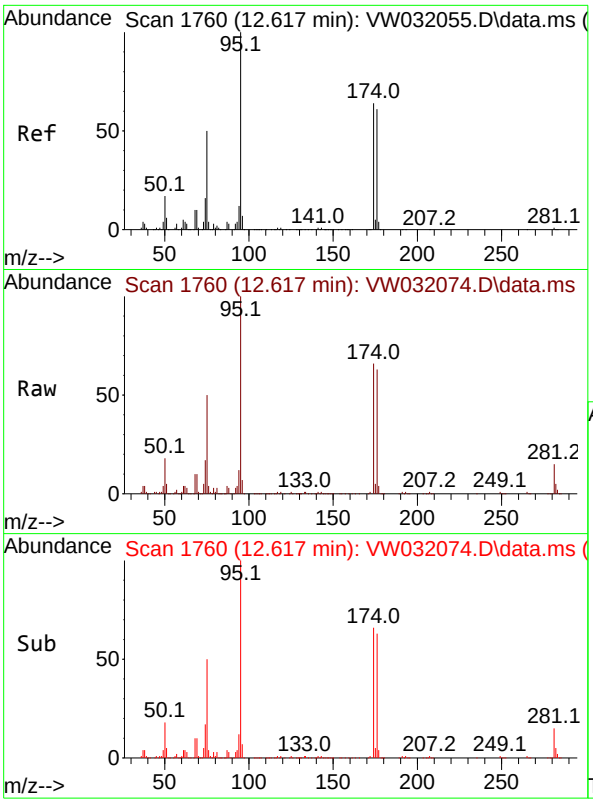




#50
Toluene-d8
Concen: 49.639 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032074.D
Acq: 11 Aug 2025 18:03

Tgt Ion: 98 Resp: 420096

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.2 | 51.1 | 76.7 |



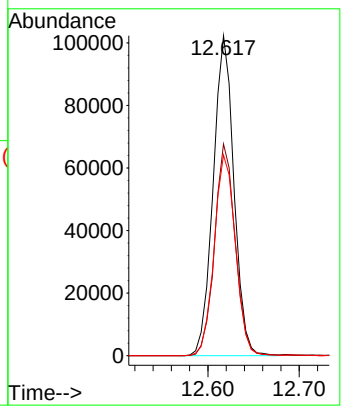


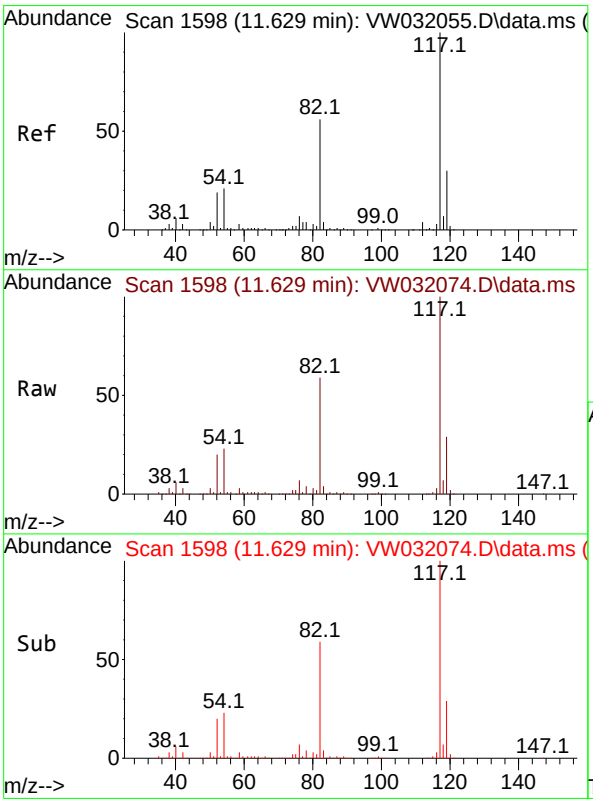

#62
4-Bromofluorobenzene
Concen: 51.644 ug/l
RT: 12.617 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032074.D
Acq: 11 Aug 2025 18:03

**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-S

Tgt Ion: 95 Resp: 161066

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 65.8 | 0.0 | 129.0 |
| 176 | 64.5 | 0.0 | 124.6 |

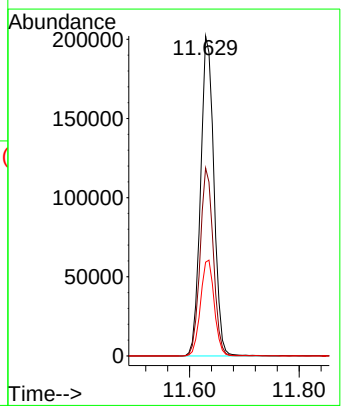


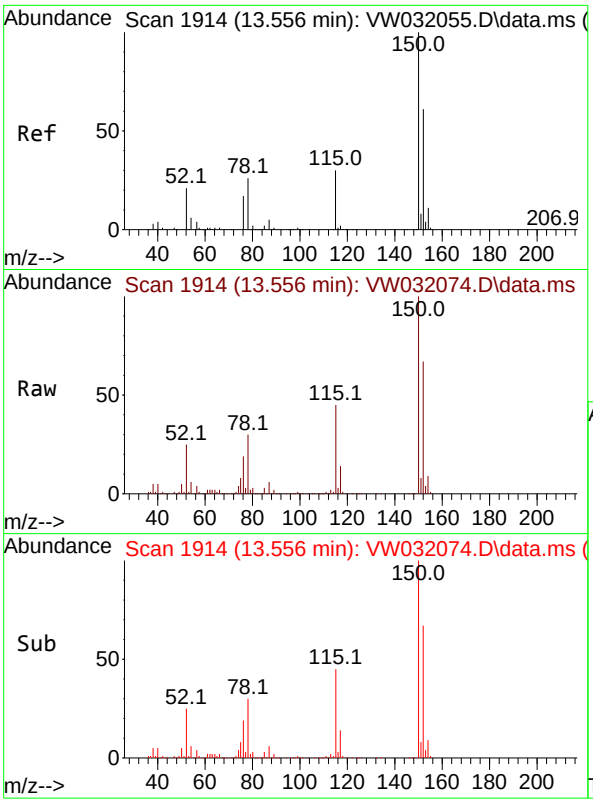




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1598
Delta R.T. 0.000 min
Lab File: VW032074.D
Acq: 11 Aug 2025 18:03

Tgt Ion:117 Resp: 340658

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 58.7 | 45.0 | 67.4 |
| 119 | 29.3 | 24.2 | 36.4 |



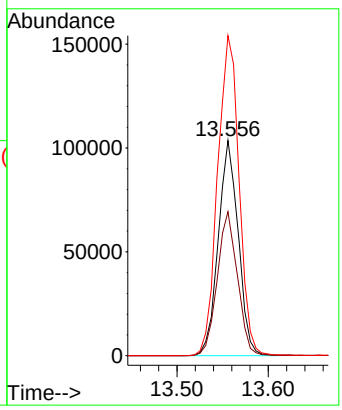



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032074.D
Acq: 11 Aug 2025 18:03

**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-S

Tgt Ion:152 Resp: 157540

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 67.5 | 32.6 | 97.8 |
| 150 | 159.8 | 0.0 | 359.4 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032074.D
Acq On : 11 Aug 2025 18:03
Operator : SY/MD
Sample : Q2819-04
Misc : 5.68g/5mL/MSVOA_W/SOIL/A
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-S

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Title : SW846 8260

Signal : TIC: VW032074.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.423 | 406 | 416 | 427 | rVB2 | 3599 | 12123 | 1.10% | 0.195% |
| 2 | 4.954 | 490 | 503 | 520 | rBV3 | 12434 | 49533 | 4.49% | 0.796% |
| 3 | 7.898 | 972 | 986 | 991 | rBV2 | 152681 | 369753 | 33.54% | 5.938% |
| 4 | 7.959 | 991 | 996 | 1008 | rVB | 242927 | 546052 | 49.53% | 8.770% |
| 5 | 8.319 | 1046 | 1055 | 1068 | rBV | 155862 | 351771 | 31.91% | 5.650% |
| 6 | 8.849 | 1134 | 1142 | 1154 | rBV | 412241 | 837475 | 75.96% | 13.450% |
| 7 | 10.325 | 1373 | 1384 | 1401 | rBV | 616542 | 1102470 | 100.00% | 17.706% |
| 8 | 11.629 | 1590 | 1598 | 1609 | rBV | 620633 | 1053617 | 95.57% | 16.922% |
| 9 | 12.617 | 1749 | 1760 | 1771 | rBV2 | 494457 | 876881 | 79.54% | 14.083% |
| 10 | 13.556 | 1907 | 1914 | 1926 | rVB | 636064 | 1011692 | 91.77% | 16.248% |
| 11 | 14.062 | 1992 | 1997 | 2004 | rBV2 | 8993 | 15008 | 1.36% | 0.241% |

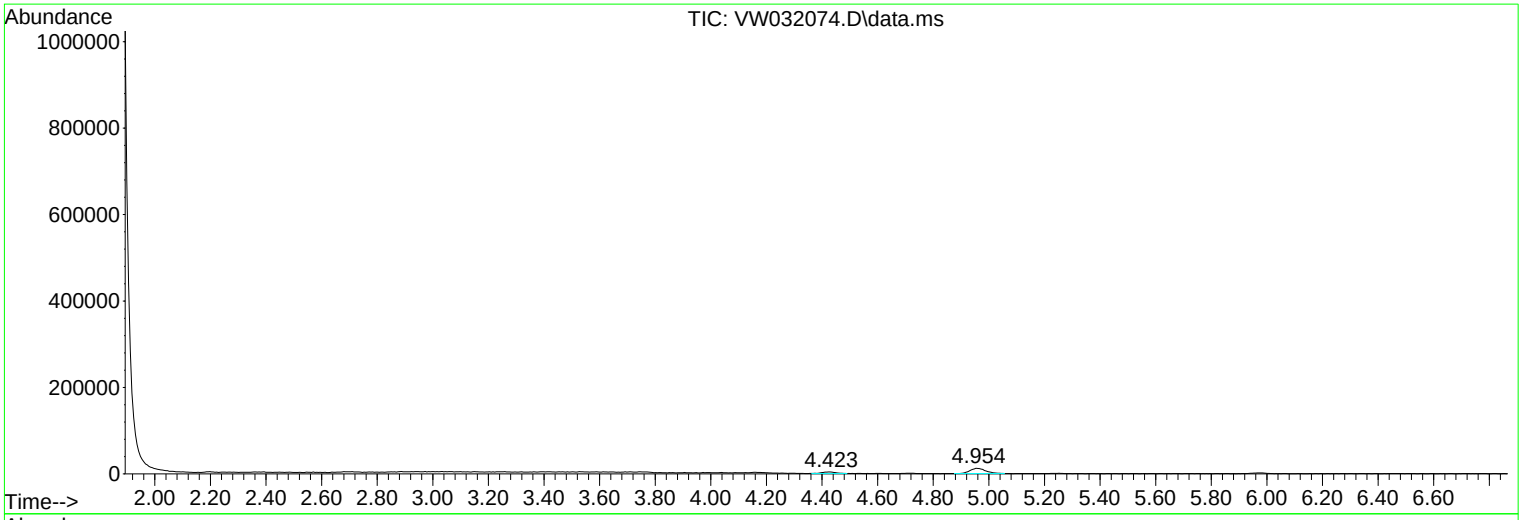
Sum of corrected areas: 6226375

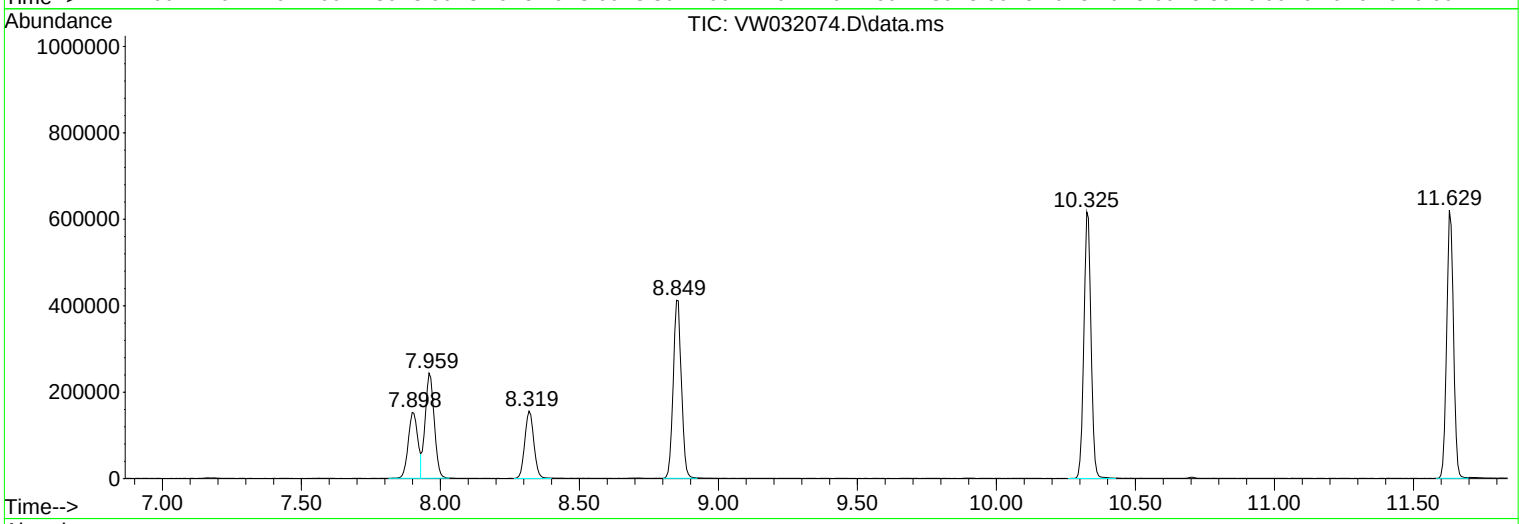
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032074.D
Acq On : 11 Aug 2025 18:03
Operator : SY/MD
Sample : Q2819-04
Misc : 5.68g/5mL/MSVOA_W/SOIL/A
ALS Vial : 25 Sample Multiplier: 1

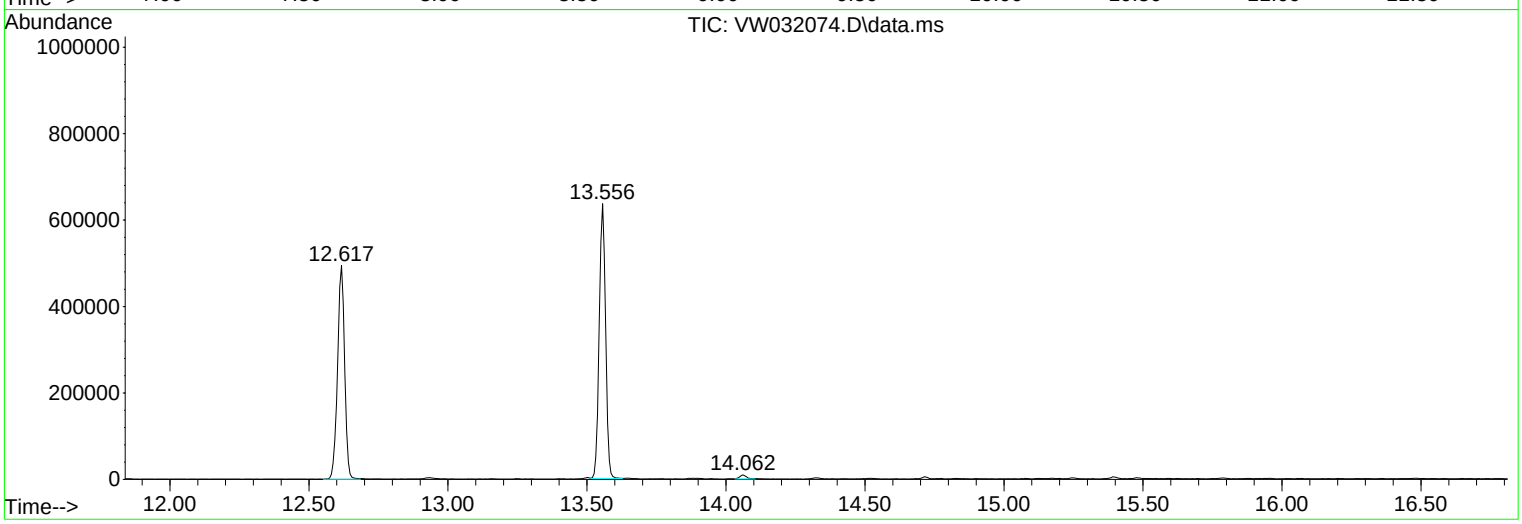
**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032074.D
Acq On : 11 Aug 2025 18:03
Operator : SY/MD
Sample : Q2819-04
Misc : 5.68g/5mL/MSVOA_W/SOIL/A
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
**********

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032074.D
Acq On : 11 Aug 2025 18:03
Operator : SY/MD
Sample : Q2819-04
Misc : 5.68g/5mL/MSVOA_W/SOIL/A
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
22BP-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 11M-W | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-05 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 91.5 |
| Sample Wt/Vol: | 6.21 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VW032075.D | 1 | 08/11/25 18:25 | VW081125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 3.50 | U | 1.00 | 3.50 | 4.40 | ug/Kg |
| 74-87-3 | Chloromethane | 2.20 | U | 1.00 | 2.20 | 4.40 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 2.20 | U | 0.70 | 2.20 | 4.40 | ug/Kg |
| 74-83-9 | Bromomethane | 3.50 | U | 0.94 | 3.50 | 4.40 | ug/Kg |
| 75-00-3 | Chloroethane | 2.20 | U | 1.10 | 2.20 | 4.40 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 3.50 | U | 1.10 | 3.50 | 4.40 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 2.20 | U | 0.93 | 2.20 | 4.40 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 2.20 | U | 0.88 | 2.20 | 4.40 | ug/Kg |
| 67-64-1 | Acetone | 17.6 | U | 4.20 | 17.6 | 22.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 3.50 | U | 0.93 | 3.50 | 4.40 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 2.20 | U | 0.64 | 2.20 | 4.40 | ug/Kg |
| 79-20-9 | Methyl Acetate | 3.50 | U | 1.40 | 3.50 | 4.40 | ug/Kg |
| 75-09-2 | Methylene Chloride | 7.00 | U | 3.10 | 7.00 | 8.80 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 2.20 | U | 0.76 | 2.20 | 4.40 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 2.20 | U | 0.70 | 2.20 | 4.40 | ug/Kg |
| 110-82-7 | Cyclohexane | 2.20 | U | 0.70 | 2.20 | 4.40 | ug/Kg |
| 78-93-3 | 2-Butanone | 17.6 | U | 5.80 | 17.6 | 22.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 2.20 | U | 0.85 | 2.20 | 4.40 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 2.20 | U | 0.66 | 2.20 | 4.40 | ug/Kg |
| 74-97-5 | Bromochloromethane | 3.50 | U | 1.00 | 3.50 | 4.40 | ug/Kg |
| 67-66-3 | Chloroform | 3.50 | U | 0.74 | 3.50 | 4.40 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 2.20 | U | 0.82 | 2.20 | 4.40 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 2.20 | U | 0.80 | 2.20 | 4.40 | ug/Kg |
| 71-43-2 | Benzene | 2.20 | U | 0.70 | 2.20 | 4.40 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 2.20 | U | 0.70 | 2.20 | 4.40 | ug/Kg |
| 79-01-6 | Trichloroethene | 2.20 | U | 0.71 | 2.20 | 4.40 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 2.20 | U | 0.80 | 2.20 | 4.40 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 2.20 | U | 0.69 | 2.20 | 4.40 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 11.0 | U | 3.20 | 11.0 | 22.0 | ug/Kg |
| 108-88-3 | Toluene | 2.20 | U | 0.69 | 2.20 | 4.40 | ug/Kg |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 11M-W | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-05 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 91.5 |
| Sample Wt/Vol: | 6.21 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VW032075.D | 1 | 08/11/25 18:25 | VW081125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 2.20 | U | 0.57 | 2.20 | 4.40 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 2.20 | U | 0.55 | 2.20 | 4.40 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 2.20 | U | 0.81 | 2.20 | 4.40 | ug/Kg |
| 591-78-6 | 2-Hexanone | 11.0 | U | 3.20 | 11.0 | 22.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 2.20 | U | 0.77 | 2.20 | 4.40 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 2.20 | U | 0.77 | 2.20 | 4.40 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 2.20 | U | 0.92 | 2.20 | 4.40 | ug/Kg |
| 108-90-7 | Chlorobenzene | 2.20 | U | 0.80 | 2.20 | 4.40 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 2.20 | U | 0.59 | 2.20 | 4.40 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 4.40 | U | 1.10 | 4.40 | 8.80 | ug/Kg |
| 95-47-6 | o-Xylene | 2.20 | U | 0.72 | 2.20 | 4.40 | ug/Kg |
| 100-42-5 | Styrene | 2.20 | U | 0.62 | 2.20 | 4.40 | ug/Kg |
| 75-25-2 | Bromoform | 2.20 | U | 0.76 | 2.20 | 4.40 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 2.20 | U | 0.69 | 2.20 | 4.40 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 2.20 | U | 1.10 | 2.20 | 4.40 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 2.20 | U | 1.50 | 2.20 | 4.40 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 2.20 | U | 1.40 | 2.20 | 4.40 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 2.20 | U | 1.30 | 2.20 | 4.40 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 3.50 | U | 1.60 | 3.50 | 4.40 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 3.50 | U | 2.60 | 3.50 | 4.40 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 3.50 | U | 2.80 | 3.50 | 4.40 | ug/Kg |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 59.2 | | 71 - 136 | | 118% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 54.3 | | 78 - 119 | | 109% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 52.7 | | 85 - 116 | | 105% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 57.4 | | 79 - 119 | | 115% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 160000 | 7.965 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 348000 | 8.849 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 344000 | 11.629 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 158000 | 13.562 | | | | |

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 11M-W | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-05 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 91.5 |
| Sample Wt/Vol: | 6.21 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VW032075.D | 1 | 08/11/25 18:25 | VW081125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032075.D
Acq On : 11 Aug 2025 18:25
Operator : SY/MD
Sample : Q2819-05
Misc : 6.21g/5mL/MSVOA_W/SOIL/A
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
11M-W

Quant Time: Aug 12 04:29:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.965 | 168 | 160482 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.849 | 114 | 347658 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.629 | 117 | 344119 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.562 | 152 | 158417 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.319 | 65 | 137449 | 59.219 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 63 - 155 | | Recovery = 118.440% | | | |
| 35) Dibromofluoromethane | 7.904 | 113 | 121861 | 54.257 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 70 - 134 | | Recovery = 108.520% | | | |
| 50) Toluene-d8 | 10.331 | 98 | 438005 | 52.725 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 123 | | Recovery = 105.460% | | | |
| 62) 4-Bromofluorobenzene | 12.617 | 95 | 175755 | 57.411 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 17 - 146 | | Recovery = 114.820% | | | |

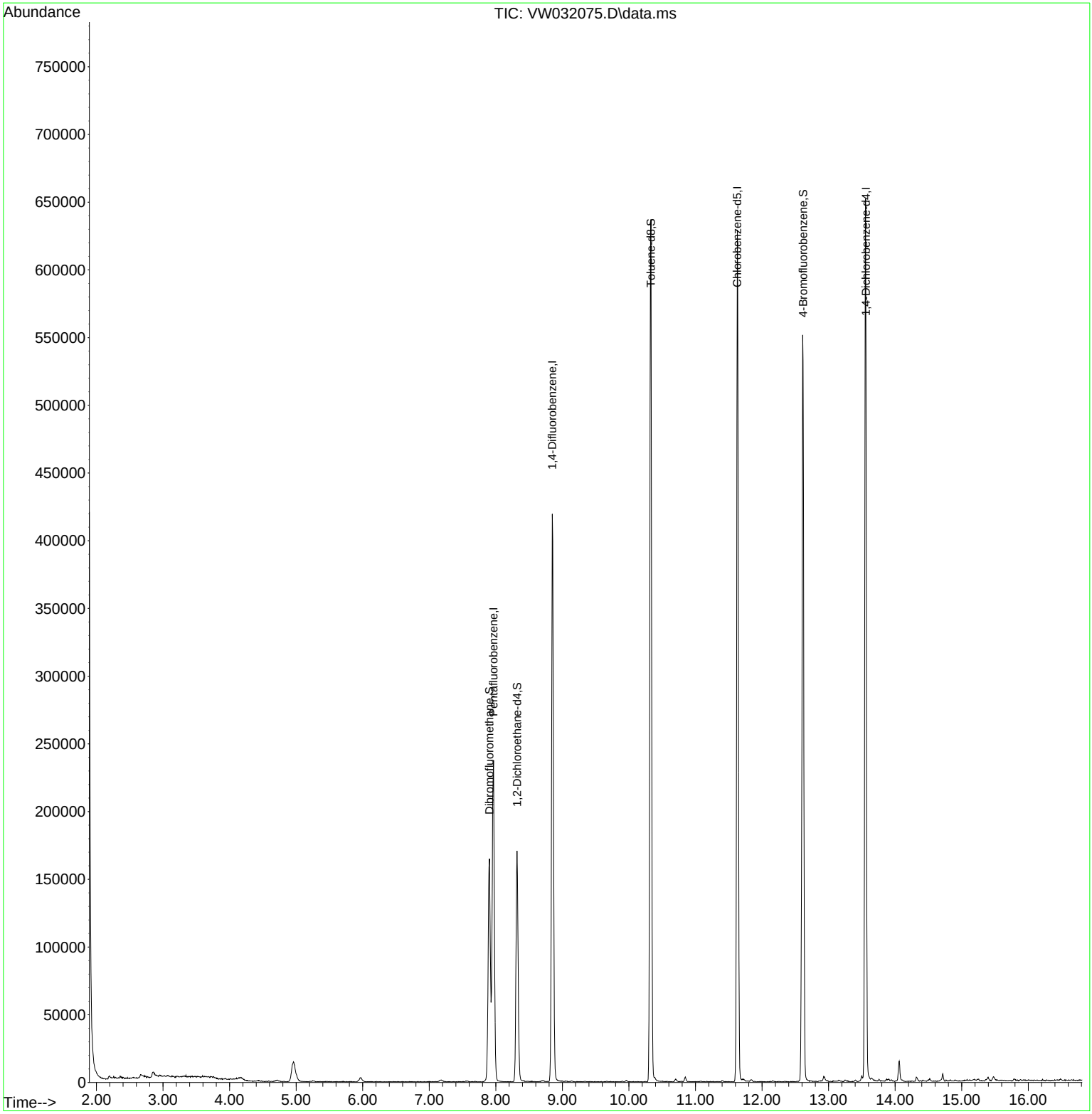
Target Compounds Qvalue

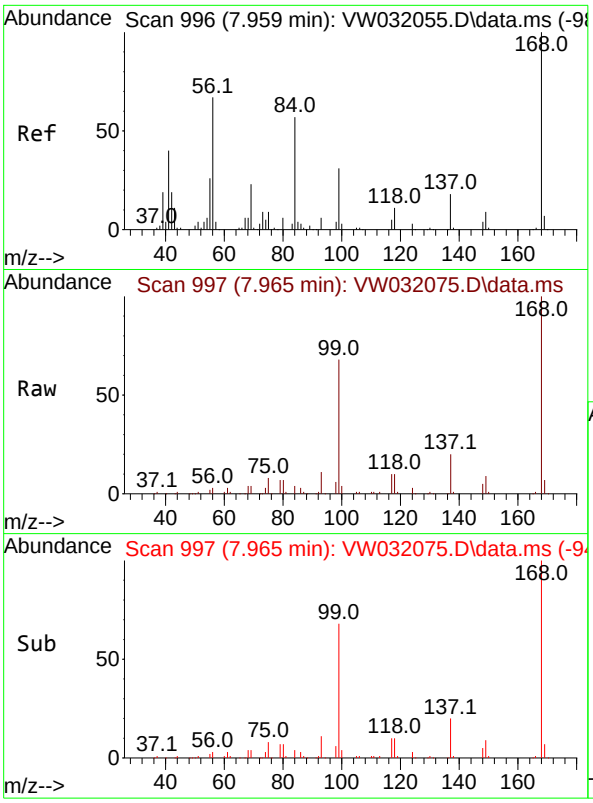
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032075.D
Acq On : 11 Aug 2025 18:25
Operator : SY/MD
Sample : Q2819-05
Misc : 6.21g/5mL/MSVOA_W/SOIL/A
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
11M-W

Quant Time: Aug 12 04:29:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration



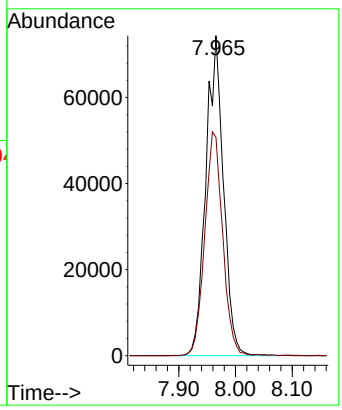


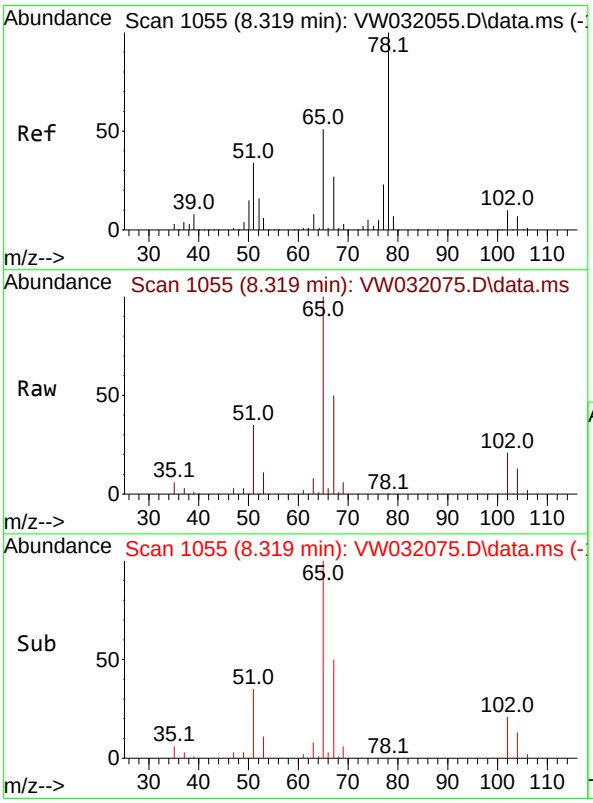

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032075.D
Acq: 11 Aug 2025 18:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
11M-W

Tgt Ion:168 Resp: 160482

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 68.2 | 56.0 | 84.0 |

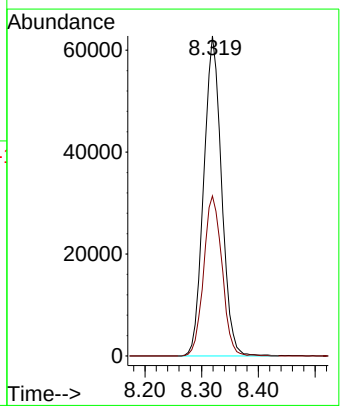


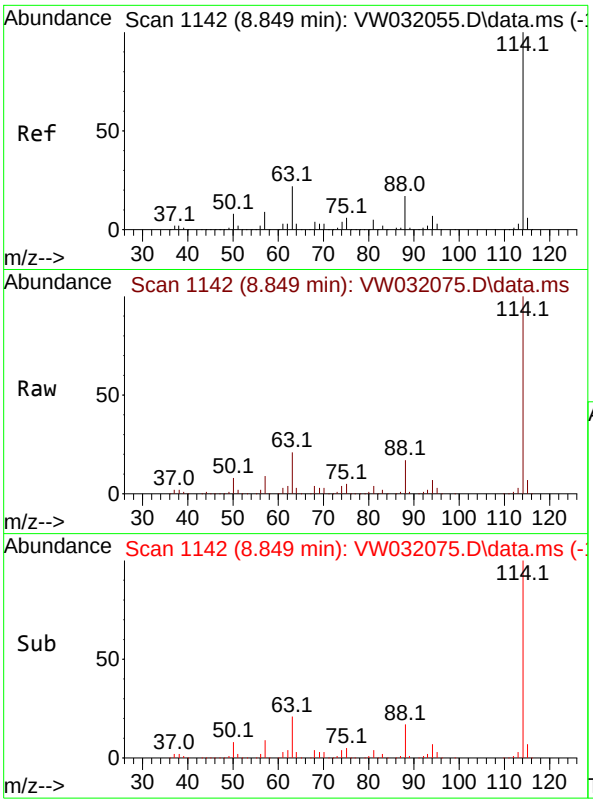




#33
1,2-Dichloroethane-d4
Concen: 59.219 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032075.D
Acq: 11 Aug 2025 18:25

Tgt Ion: 65 Resp: 137449

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.4 | 0.0 | 102.4 |



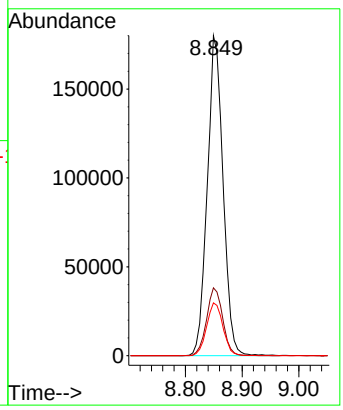


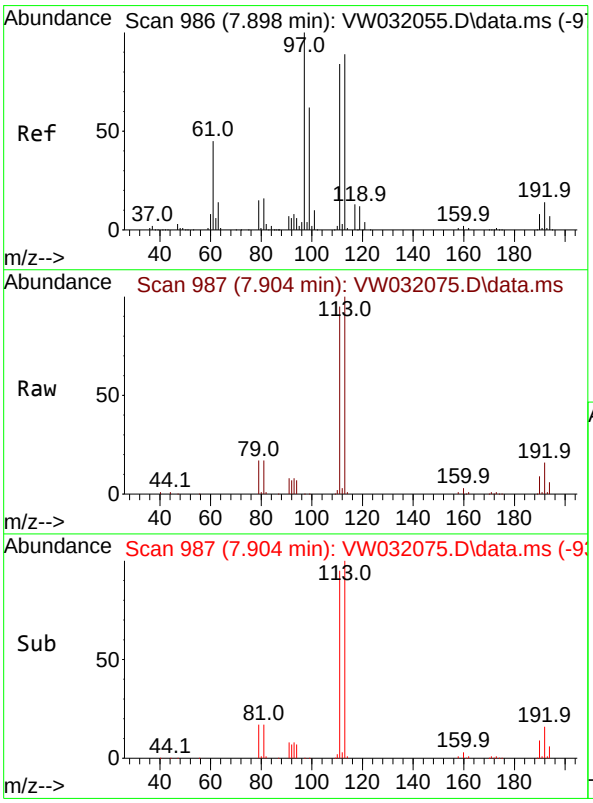

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW032075.D
Acq: 11 Aug 2025 18:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
11M-W

Tgt Ion:114 Resp: 347658

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.2 | 0.0 | 43.0 |
| 88 | 16.5 | 0.0 | 33.8 |

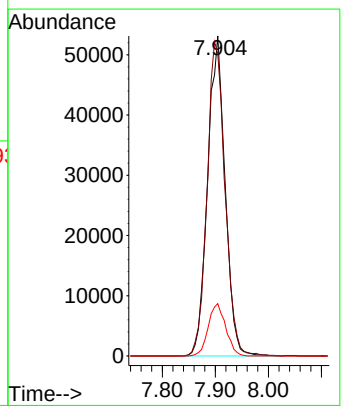


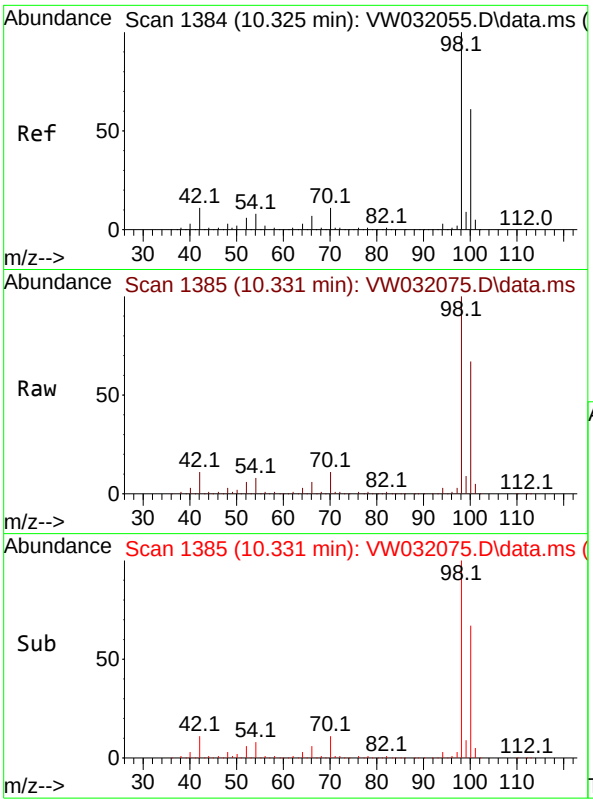




#35
Dibromofluoromethane
Concen: 54.257 ug/l
RT: 7.904 min Scan# 987
Delta R.T. 0.006 min
Lab File: VW032075.D
Acq: 11 Aug 2025 18:25

Tgt Ion:113 Resp: 121861

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 100.8 | 80.1 | 120.1 |
| 192 | 16.3 | 13.1 | 19.7 |



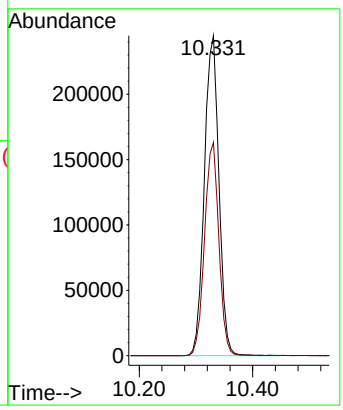


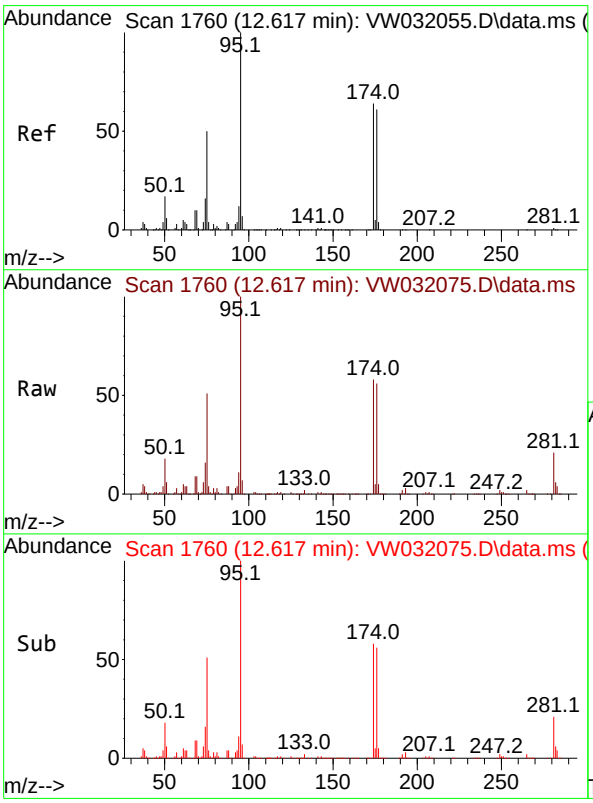

#50
Toluene-d8
Concen: 52.725 ug/l
RT: 10.331 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032075.D
Acq: 11 Aug 2025 18:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
11M-W

Tgt Ion: 98 Resp: 438005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.5 | 51.1 | 76.7 |

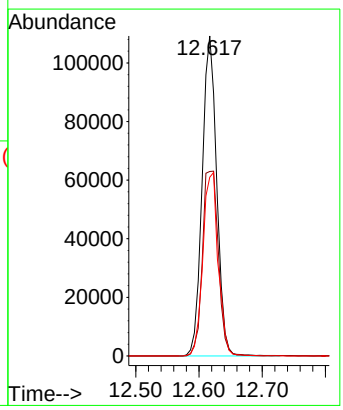


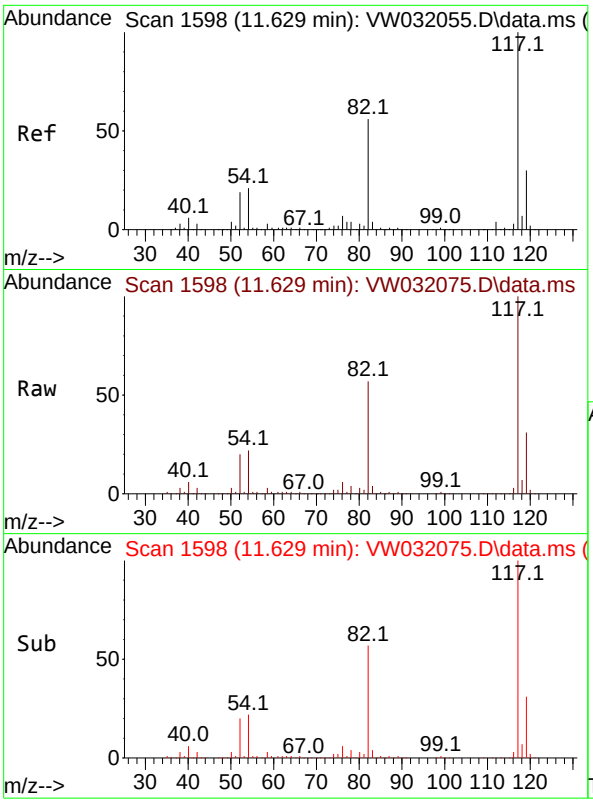




#62
4-Bromofluorobenzene
Concen: 57.411 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032075.D
Acq: 11 Aug 2025 18:25

Tgt Ion: 95 Resp: 175755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 63.2 | 0.0 | 129.0 |
| 176 | 60.1 | 0.0 | 124.6 |



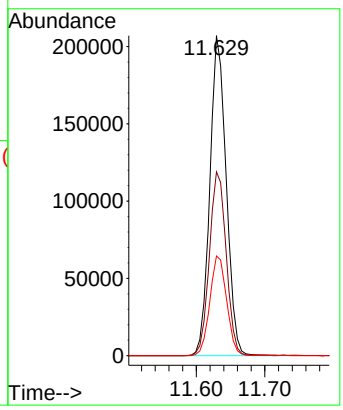


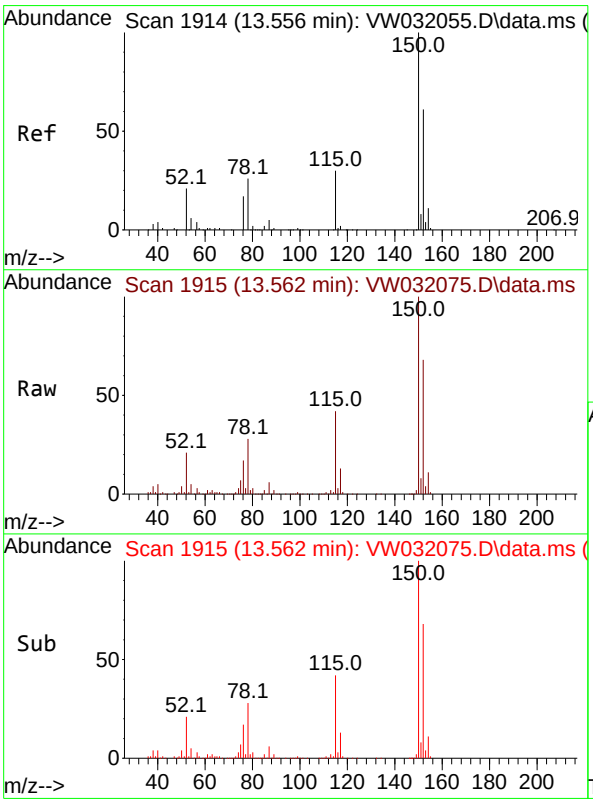

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032075.D
Acq: 11 Aug 2025 18:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
11M-W

Tgt Ion:117 Resp: 344119

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.4 | 45.0 | 67.4 |
| 119 | 31.2 | 24.2 | 36.4 |

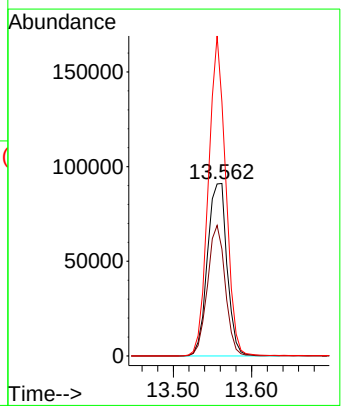



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.562 min Scan# 1915
Delta R.T. 0.006 min
Lab File: VW032075.D
Acq: 11 Aug 2025 18:25

Tgt Ion:152 Resp: 158417

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 68.8 | 32.6 | 97.8 |
| 150 | 163.5 | 0.0 | 359.4 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032075.D
Acq On : 11 Aug 2025 18:25
Operator : SY/MD
Sample : Q2819-05
Misc : 6.21g/5mL/MSVOA_W/SOIL/A
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
11M-W

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Title : SW846 8260

Signal : TIC: VW032075.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.960 | 490 | 504 | 518 | rBV3 | 14719 | 62023 | 5.36% | 0.950% |
| 2 | 7.904 | 972 | 987 | 991 | rBV | 164613 | 389799 | 33.71% | 5.970% |
| 3 | 7.965 | 991 | 997 | 1007 | rVB | 236675 | 535040 | 46.28% | 8.194% |
| 4 | 8.319 | 1046 | 1055 | 1068 | rBV | 170248 | 374231 | 32.37% | 5.731% |
| 5 | 8.849 | 1133 | 1142 | 1159 | rBV | 419029 | 830065 | 71.79% | 12.712% |
| 6 | 10.331 | 1376 | 1385 | 1393 | rBV | 636798 | 1156208 | 100.00% | 17.707% |
| 7 | 11.629 | 1589 | 1598 | 1608 | rBV | 628953 | 1071199 | 92.65% | 16.405% |
| 8 | 12.611 | 1748 | 1759 | 1774 | rBV4 | 551335 | 1040280 | 89.97% | 15.932% |
| 9 | 13.556 | 1907 | 1914 | 1926 | rVB2 | 650437 | 1046322 | 90.50% | 16.024% |
| 10 | 14.062 | 1990 | 1997 | 2003 | rBV2 | 14503 | 24469 | 2.12% | 0.375% |

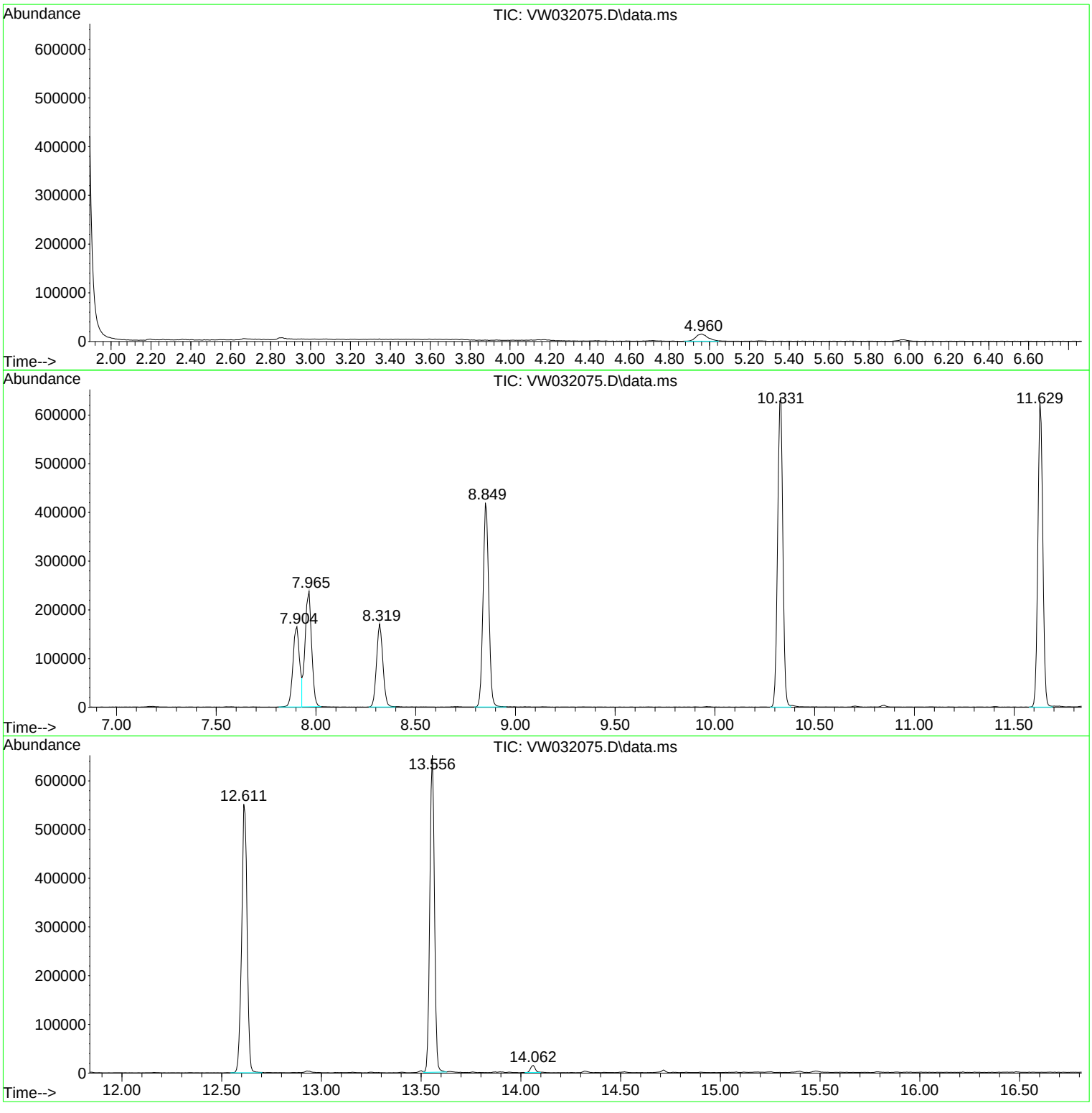
Sum of corrected areas: 6529636

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032075.D
Acq On : 11 Aug 2025 18:25
Operator : SY/MD
Sample : Q2819-05
Misc : 6.21g/5mL/MSVOA_W/SOIL/A
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
11M-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032075.D
Acq On : 11 Aug 2025 18:25
Operator : SY/MD
Sample : Q2819-05
Misc : 6.21g/5mL/MSVOA_W/SOIL/A
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
11M-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
**********

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032075.D
Acq On : 11 Aug 2025 18:25
Operator : SY/MD
Sample : Q2819-05
Misc : 6.21g/5mL/MSVOA_W/SOIL/A
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
11M-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 11M-S | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-06 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 90.5 |
| Sample Wt/Vol: | 5.71 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VW032076.D | 1 | 08/11/25 18:47 | VW081125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 3.90 | U | 1.10 | 3.90 | 4.80 | ug/Kg |
| 74-87-3 | Chloromethane | 2.40 | U | 1.10 | 2.40 | 4.80 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 2.40 | U | 0.76 | 2.40 | 4.80 | ug/Kg |
| 74-83-9 | Bromomethane | 3.90 | U | 1.00 | 3.90 | 4.80 | ug/Kg |
| 75-00-3 | Chloroethane | 2.40 | U | 1.20 | 2.40 | 4.80 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 3.90 | U | 1.20 | 3.90 | 4.80 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 2.40 | U | 1.00 | 2.40 | 4.80 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 2.40 | U | 0.97 | 2.40 | 4.80 | ug/Kg |
| 67-64-1 | Acetone | 19.4 | U | 4.60 | 19.4 | 24.2 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 3.90 | U | 1.00 | 3.90 | 4.80 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 2.40 | U | 0.71 | 2.40 | 4.80 | ug/Kg |
| 79-20-9 | Methyl Acetate | 3.90 | U | 1.50 | 3.90 | 4.80 | ug/Kg |
| 75-09-2 | Methylene Chloride | 7.70 | U | 3.40 | 7.70 | 9.70 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 2.40 | U | 0.83 | 2.40 | 4.80 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 2.40 | U | 0.77 | 2.40 | 4.80 | ug/Kg |
| 110-82-7 | Cyclohexane | 2.40 | U | 0.76 | 2.40 | 4.80 | ug/Kg |
| 78-93-3 | 2-Butanone | 19.4 | U | 6.30 | 19.4 | 24.2 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 2.40 | U | 0.94 | 2.40 | 4.80 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 2.40 | U | 0.73 | 2.40 | 4.80 | ug/Kg |
| 74-97-5 | Bromochloromethane | 3.90 | U | 1.10 | 3.90 | 4.80 | ug/Kg |
| 67-66-3 | Chloroform | 3.90 | U | 0.81 | 3.90 | 4.80 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 2.40 | U | 0.90 | 2.40 | 4.80 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 2.40 | U | 0.88 | 2.40 | 4.80 | ug/Kg |
| 71-43-2 | Benzene | 2.40 | U | 0.76 | 2.40 | 4.80 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 2.40 | U | 0.76 | 2.40 | 4.80 | ug/Kg |
| 79-01-6 | Trichloroethene | 2.40 | U | 0.78 | 2.40 | 4.80 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 2.40 | U | 0.88 | 2.40 | 4.80 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 2.40 | U | 0.75 | 2.40 | 4.80 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 12.1 | U | 3.50 | 12.1 | 24.2 | ug/Kg |
| 108-88-3 | Toluene | 2.40 | U | 0.75 | 2.40 | 4.80 | ug/Kg |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 11M-S | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-06 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 90.5 |
| Sample Wt/Vol: | 5.71 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VW032076.D | 1 | 08/11/25 18:47 | VW081125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 2.40 | U | 0.63 | 2.40 | 4.80 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 2.40 | U | 0.60 | 2.40 | 4.80 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 2.40 | U | 0.89 | 2.40 | 4.80 | ug/Kg |
| 591-78-6 | 2-Hexanone | 12.1 | U | 3.60 | 12.1 | 24.2 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 2.40 | U | 0.84 | 2.40 | 4.80 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 2.40 | U | 0.85 | 2.40 | 4.80 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 2.40 | U | 1.00 | 2.40 | 4.80 | ug/Kg |
| 108-90-7 | Chlorobenzene | 2.40 | U | 0.88 | 2.40 | 4.80 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 2.40 | U | 0.65 | 2.40 | 4.80 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 4.80 | U | 1.20 | 4.80 | 9.70 | ug/Kg |
| 95-47-6 | o-Xylene | 2.40 | U | 0.79 | 2.40 | 4.80 | ug/Kg |
| 100-42-5 | Styrene | 2.40 | U | 0.69 | 2.40 | 4.80 | ug/Kg |
| 75-25-2 | Bromoform | 2.40 | U | 0.83 | 2.40 | 4.80 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 2.40 | U | 0.75 | 2.40 | 4.80 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 2.40 | U | 1.20 | 2.40 | 4.80 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 2.40 | U | 1.70 | 2.40 | 4.80 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 2.40 | U | 1.50 | 2.40 | 4.80 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 2.40 | U | 1.40 | 2.40 | 4.80 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 3.90 | U | 1.80 | 3.90 | 4.80 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 3.90 | U | 2.90 | 3.90 | 4.80 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 3.90 | U | 3.10 | 3.90 | 4.80 | ug/Kg |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 53.2 | | 71 - 136 | | 106% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 52.2 | | 78 - 119 | | 104% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.3 | | 85 - 116 | | 101% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 51.2 | | 79 - 119 | | 102% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 166000 | 7.959 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 348000 | 8.855 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 338000 | 11.629 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 151000 | 13.556 | | | | |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 11M-S | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-06 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 90.5 |
| Sample Wt/Vol: | 5.71 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VW032076.D | 1 | 08/11/25 18:47 | VW081125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032076.D
Acq On : 11 Aug 2025 18:47
Operator : SY/MD
Sample : Q2819-06
Misc : 5.71g/5mL/MSVOA_W/SOIL/A
ALS Vial : 27 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
11M-S

Quant Time: Aug 12 04:29:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

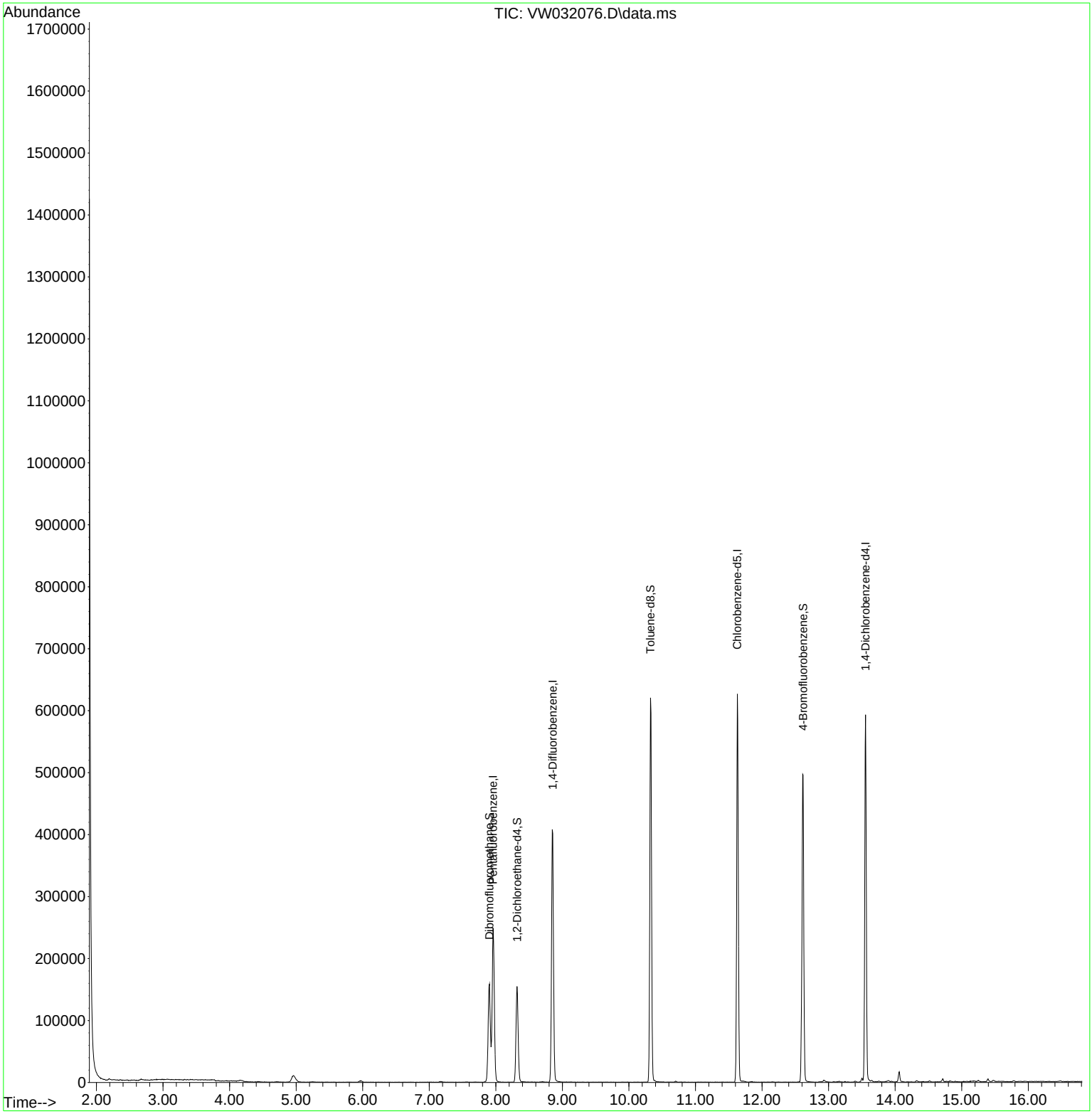
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.959 | 168 | 165877 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.855 | 114 | 348126 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.629 | 117 | 337870 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.556 | 152 | 150514 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.319 | 65 | 127564 | 53.173 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 63 - 155 | | Recovery = 106.340% | | | |
| 35) Dibromofluoromethane | 7.904 | 113 | 117342 | 52.174 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 70 - 134 | | Recovery = 104.340% | | | |
| 50) Toluene-d8 | 10.325 | 98 | 418630 | 50.325 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 123 | | Recovery = 100.660% | | | |
| 62) 4-Bromofluorobenzene | 12.617 | 95 | 157097 | 51.247 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 17 - 146 | | Recovery = 102.500% | | | |
| Target Compounds | | | | | | Qvalue |

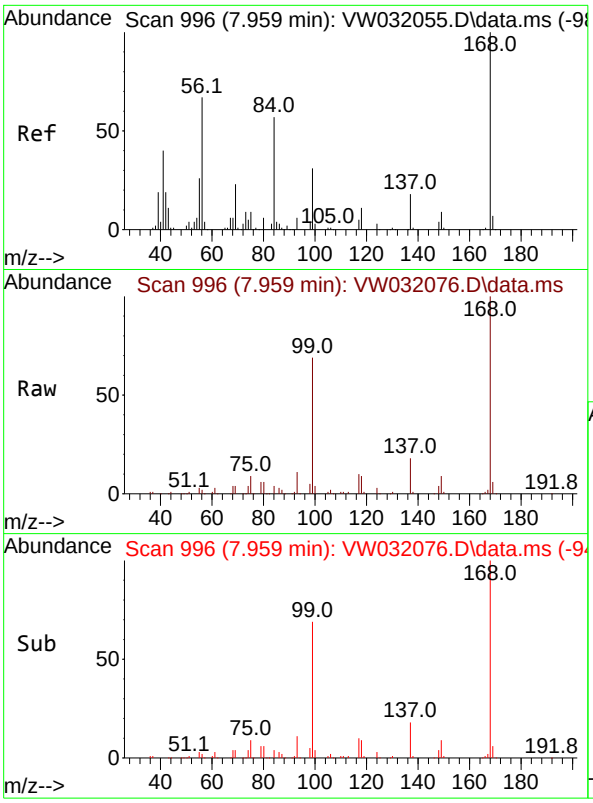
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032076.D
Acq On : 11 Aug 2025 18:47
Operator : SY/MD
Sample : Q2819-06
Misc : 5.71g/5mL/MSVOA_W/SOIL/A
ALS Vial : 27 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
11M-S

Quant Time: Aug 12 04:29:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration



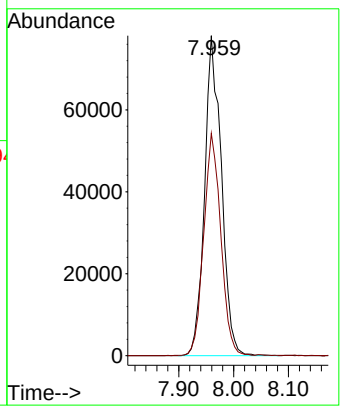


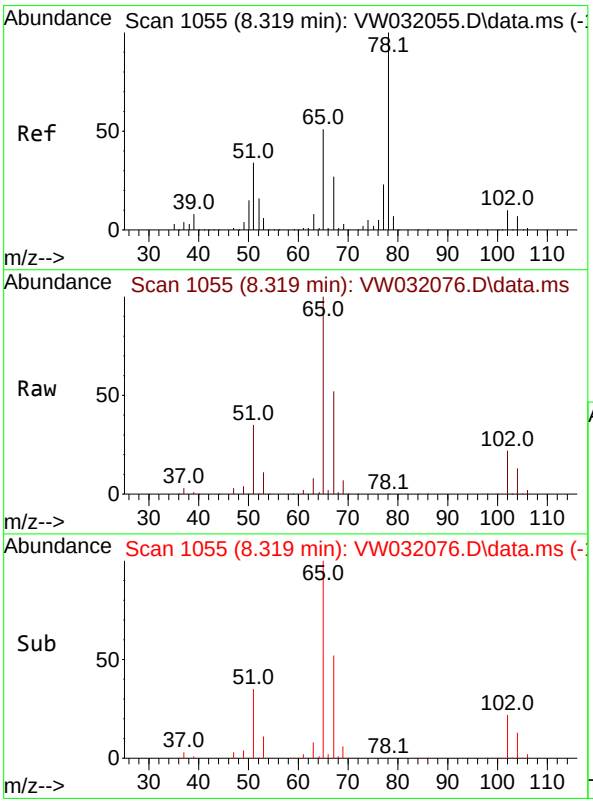

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032076.D
Acq: 11 Aug 2025 18:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
11M-S

Tgt Ion:168 Resp: 165877

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 69.3 | 56.0 | 84.0 |

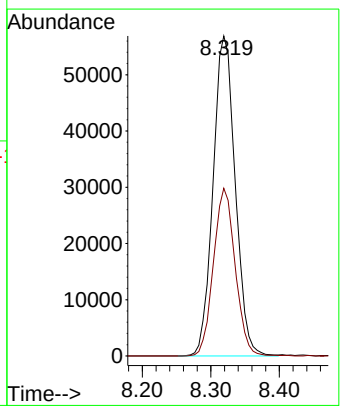


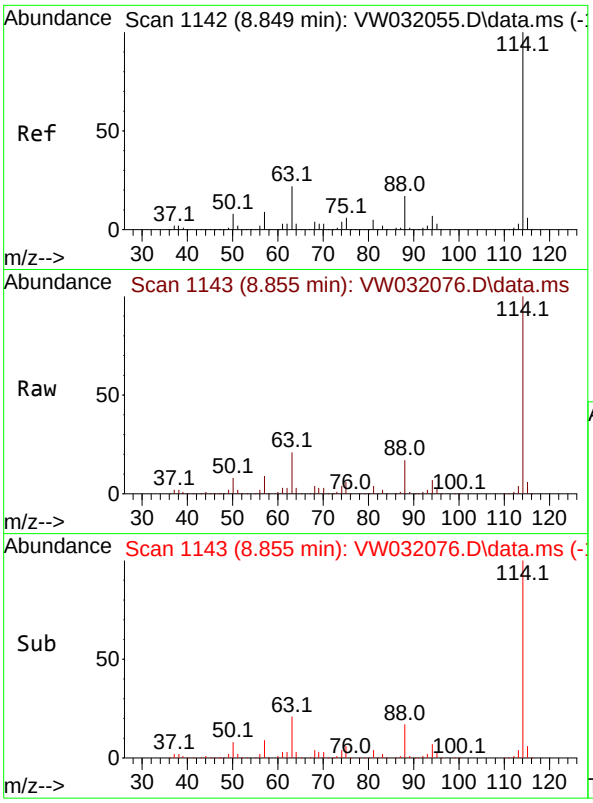




#33
1,2-Dichloroethane-d4
Concen: 53.173 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032076.D
Acq: 11 Aug 2025 18:47

Tgt Ion: 65 Resp: 127564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.4 | 0.0 | 102.4 |



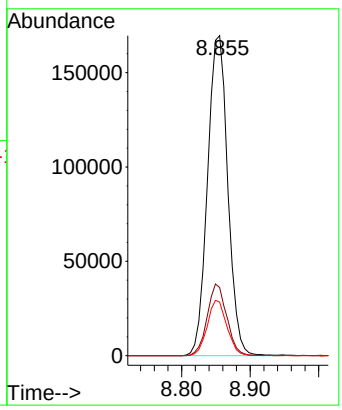


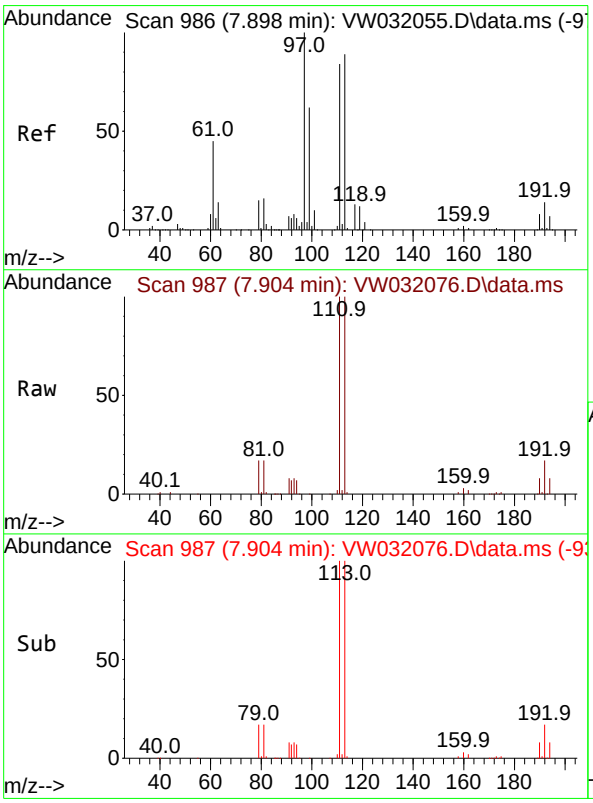

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.855 min Scan# 11
Delta R.T. 0.006 min
Lab File: VW032076.D
Acq: 11 Aug 2025 18:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
11M-S

Tgt Ion:114 Resp: 348126

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.3 | 0.0 | 43.0 |
| 88 | 16.8 | 0.0 | 33.8 |

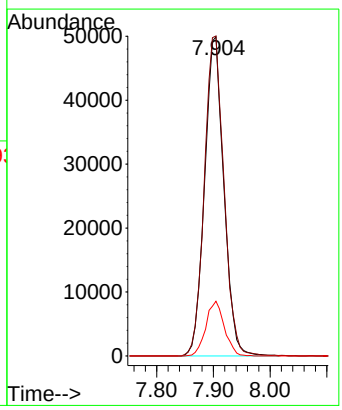


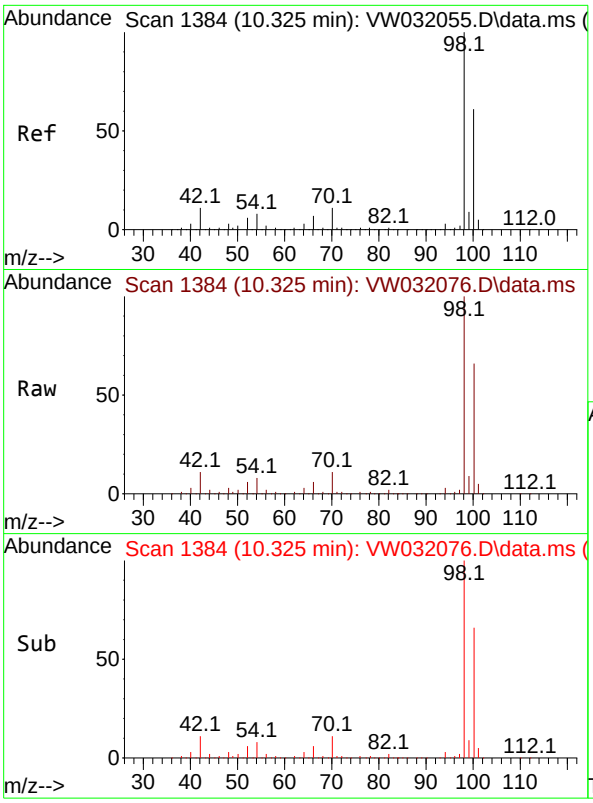




#35
Dibromofluoromethane
Concen: 52.174 ug/l
RT: 7.904 min Scan# 987
Delta R.T. 0.006 min
Lab File: VW032076.D
Acq: 11 Aug 2025 18:47

Tgt Ion:113 Resp: 117342

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.2 | 80.1 | 120.1 |
| 192 | 16.5 | 13.1 | 19.7 |



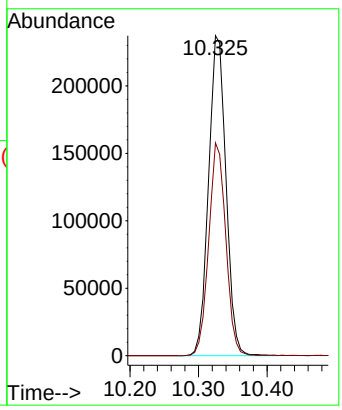


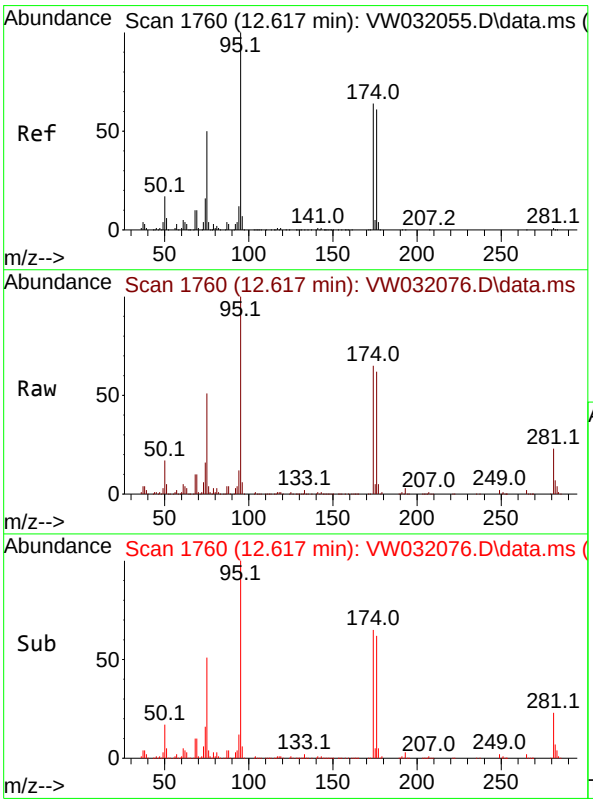

#50
Toluene-d8
Concen: 50.325 ug/l
RT: 10.325 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032076.D
Acq: 11 Aug 2025 18:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
11M-S

Tgt Ion: 98 Resp: 418630

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.2 | 51.1 | 76.7 |

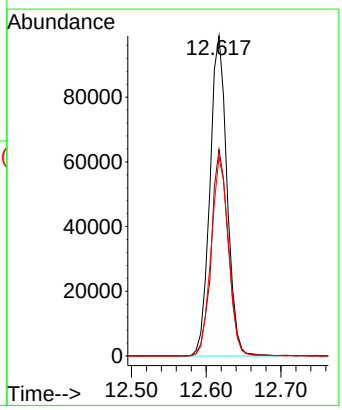


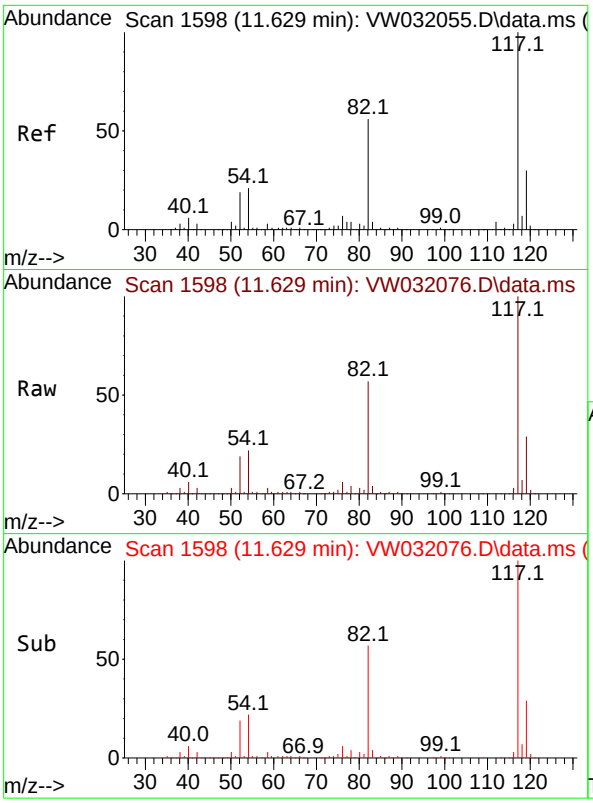




#62
4-Bromofluorobenzene
Concen: 51.247 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032076.D
Acq: 11 Aug 2025 18:47

Tgt Ion: 95 Resp: 157097

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 64.0 | 0.0 | 129.0 |
| 176 | 62.9 | 0.0 | 124.6 |



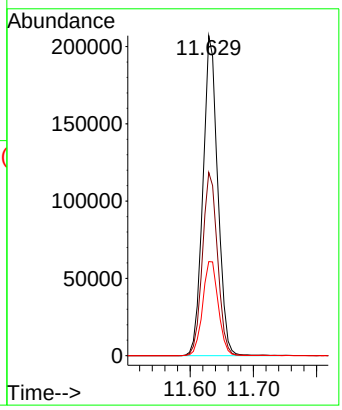


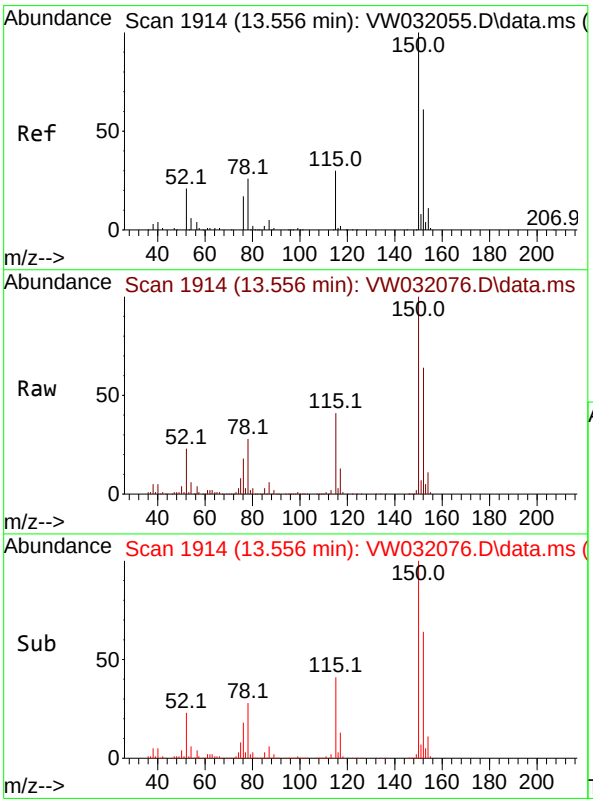

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032076.D
Acq: 11 Aug 2025 18:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
11M-S

Tgt Ion:117 Resp: 337870

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.3 | 45.0 | 67.4 |
| 119 | 29.4 | 24.2 | 36.4 |

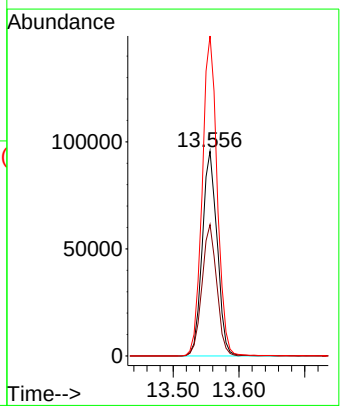



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032076.D
Acq: 11 Aug 2025 18:47

Tgt Ion:152 Resp: 150514

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 63.5 | 32.6 | 97.8 |
| 150 | 157.4 | 0.0 | 359.4 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032076.D
Acq On : 11 Aug 2025 18:47
Operator : SY/MD
Sample : Q2819-06
Misc : 5.71g/5mL/MSVOA_W/SOIL/A
ALS Vial : 27 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
11M-S

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Title : SW846 8260

Signal : TIC: VW032076.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.960 | 492 | 504 | 520 | rBV4 | 10580 | 44595 | 4.07% | 0.721% |
| 2 | 7.904 | 971 | 987 | 991 | rBV | 158241 | 375046 | 34.26% | 6.065% |
| 3 | 7.959 | 991 | 996 | 1012 | rVB | 248108 | 551525 | 50.38% | 8.918% |
| 4 | 8.319 | 1045 | 1055 | 1067 | rBV | 154534 | 345246 | 31.54% | 5.583% |
| 5 | 8.849 | 1132 | 1142 | 1157 | rBV | 407822 | 834023 | 76.19% | 13.487% |
| 6 | 10.325 | 1376 | 1384 | 1393 | rBV | 620030 | 1094688 | 100.00% | 17.702% |
| 7 | 11.629 | 1590 | 1598 | 1608 | rBV | 626267 | 1042215 | 95.21% | 16.853% |
| 8 | 12.611 | 1751 | 1759 | 1773 | rBV3 | 496260 | 929728 | 84.93% | 15.034% |
| 9 | 13.556 | 1907 | 1914 | 1926 | rVB | 591243 | 941328 | 85.99% | 15.222% |
| 10 | 14.062 | 1991 | 1997 | 2002 | rBV2 | 16067 | 25738 | 2.35% | 0.416% |

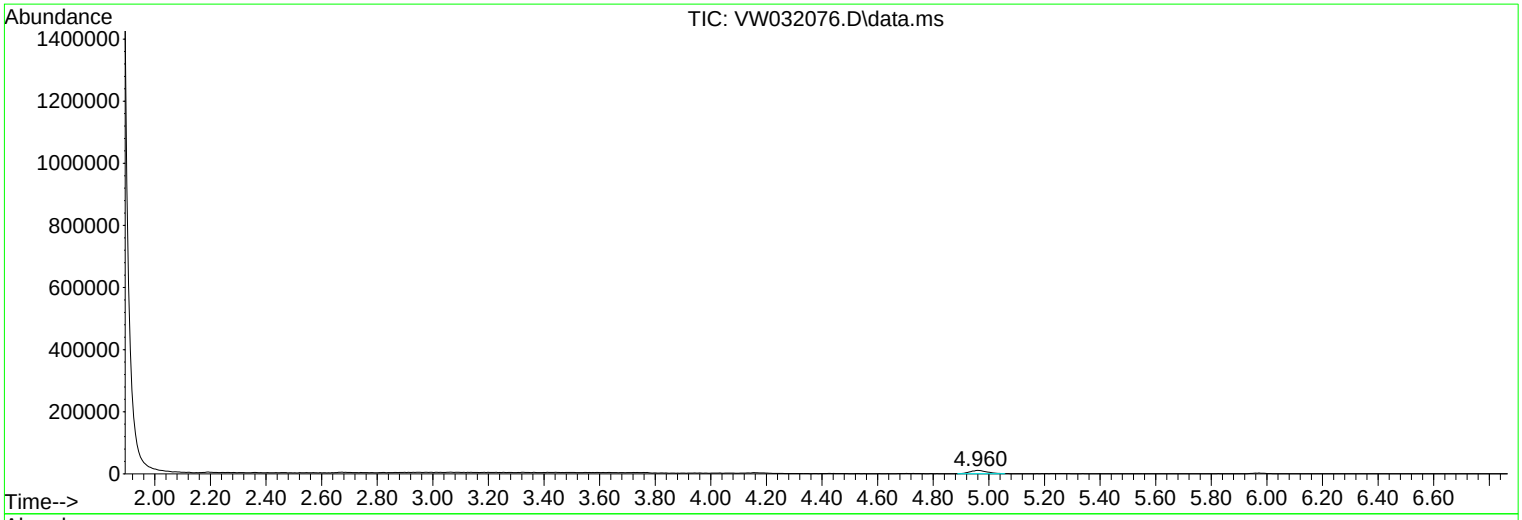
Sum of corrected areas: 6184132

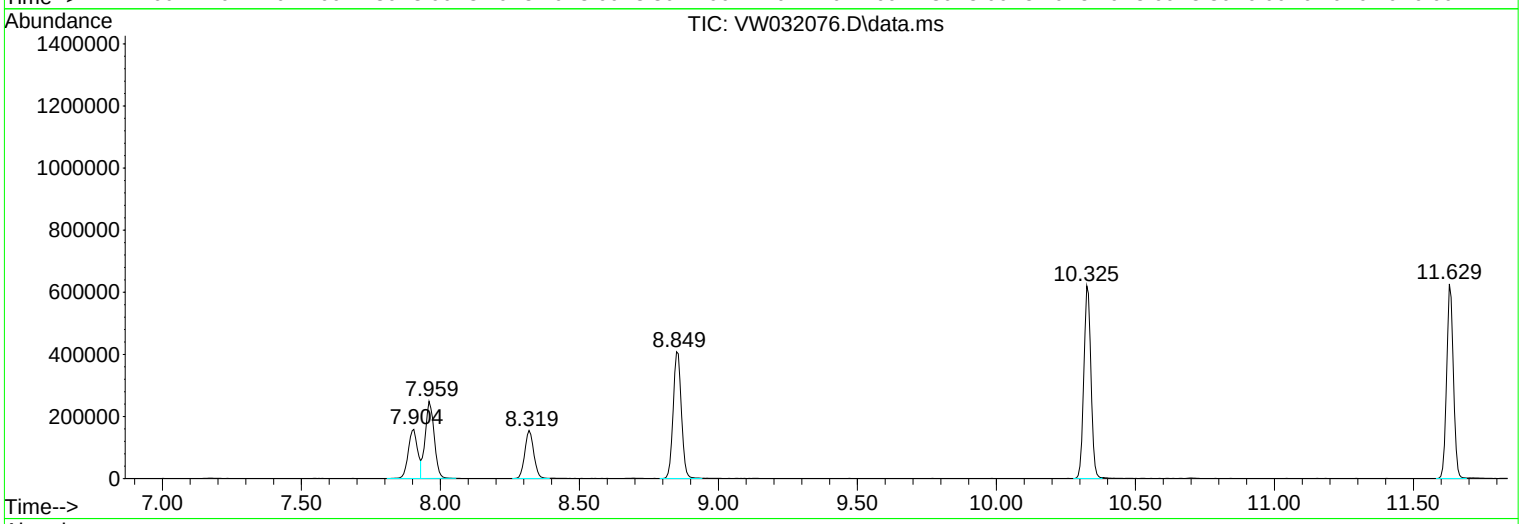
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032076.D
Acq On : 11 Aug 2025 18:47
Operator : SY/MD
Sample : Q2819-06
Misc : 5.71g/5mL/MSVOA_W/SOIL/A
ALS Vial : 27 Sample Multiplier: 1

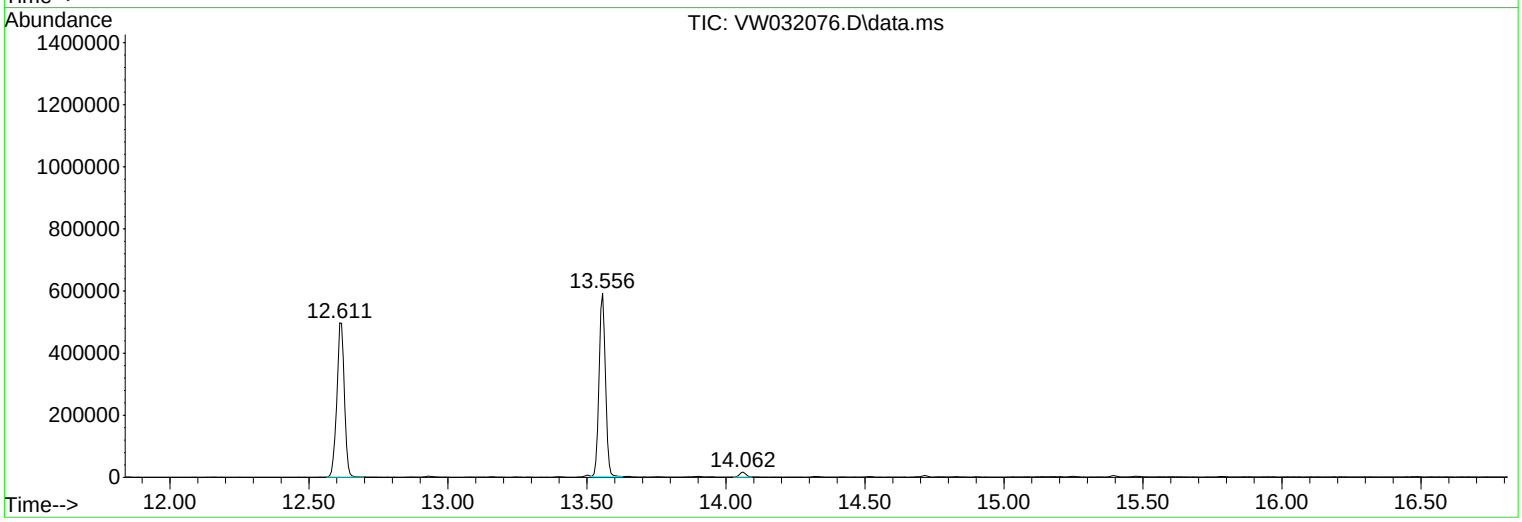
**Instrument :**
MSVOA_W
**ClientSampleId :**
11M-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032076.D
Acq On : 11 Aug 2025 18:47
Operator : SY/MD
Sample : Q2819-06
Misc : 5.71g/5mL/MSVOA_W/SOIL/A
ALS Vial : 27 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
11M-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
**********

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032076.D
Acq On : 11 Aug 2025 18:47
Operator : SY/MD
Sample : Q2819-06
Misc : 5.71g/5mL/MSVOA_W/SOIL/A
ALS Vial : 27 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
11M-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 11M-N | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-07 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 75.9 |
| Sample Wt/Vol: | 6.32 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023069.D | 1 | 08/13/25 14:55 | VY081325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 4.20 | U | 1.20 | 4.20 | 5.20 | ug/Kg |
| 74-87-3 | Chloromethane | 2.60 | U | 1.20 | 2.60 | 5.20 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 2.60 | U | 0.82 | 2.60 | 5.20 | ug/Kg |
| 74-83-9 | Bromomethane | 4.20 | U | 1.10 | 4.20 | 5.20 | ug/Kg |
| 75-00-3 | Chloroethane | 2.60 | U | 1.30 | 2.60 | 5.20 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 4.20 | U | 1.30 | 4.20 | 5.20 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 2.60 | U | 1.10 | 2.60 | 5.20 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 2.60 | U | 1.00 | 2.60 | 5.20 | ug/Kg |
| 67-64-1 | Acetone | 51.1 | | 4.90 | 20.8 | 26.1 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 1.60 | J | 1.10 | 4.20 | 5.20 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 2.60 | U | 0.76 | 2.60 | 5.20 | ug/Kg |
| 79-20-9 | Methyl Acetate | 4.20 | U | 1.60 | 4.20 | 5.20 | ug/Kg |
| 75-09-2 | Methylene Chloride | 8.30 | U | 3.70 | 8.30 | 10.4 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 2.60 | U | 0.90 | 2.60 | 5.20 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 2.60 | U | 0.83 | 2.60 | 5.20 | ug/Kg |
| 110-82-7 | Cyclohexane | 2.60 | U | 0.82 | 2.60 | 5.20 | ug/Kg |
| 78-93-3 | 2-Butanone | 13.1 | J | 6.80 | 20.8 | 26.1 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 2.60 | U | 1.00 | 2.60 | 5.20 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 2.60 | U | 0.78 | 2.60 | 5.20 | ug/Kg |
| 74-97-5 | Bromochloromethane | 4.20 | U | 1.20 | 4.20 | 5.20 | ug/Kg |
| 67-66-3 | Chloroform | 4.20 | U | 0.88 | 4.20 | 5.20 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 2.60 | U | 0.97 | 2.60 | 5.20 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 2.60 | U | 0.95 | 2.60 | 5.20 | ug/Kg |
| 71-43-2 | Benzene | 2.60 | U | 0.82 | 2.60 | 5.20 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 2.60 | U | 0.82 | 2.60 | 5.20 | ug/Kg |
| 79-01-6 | Trichloroethene | 2.60 | U | 0.84 | 2.60 | 5.20 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 2.60 | U | 0.95 | 2.60 | 5.20 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 2.60 | U | 0.81 | 2.60 | 5.20 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 13.0 | U | 3.70 | 13.0 | 26.1 | ug/Kg |
| 108-88-3 | Toluene | 6.30 | | 0.81 | 2.60 | 5.20 | ug/Kg |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 11M-N | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-07 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 75.9 |
| Sample Wt/Vol: | 6.32 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023069.D | 1 | 08/13/25 14:55 | VY081325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 2.60 | U | 0.68 | 2.60 | 5.20 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 2.60 | U | 0.65 | 2.60 | 5.20 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 2.60 | U | 0.96 | 2.60 | 5.20 | ug/Kg |
| 591-78-6 | 2-Hexanone | 13.0 | U | 3.80 | 13.0 | 26.1 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 2.60 | U | 0.91 | 2.60 | 5.20 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 2.60 | U | 0.92 | 2.60 | 5.20 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 2.60 | U | 1.10 | 2.60 | 5.20 | ug/Kg |
| 108-90-7 | Chlorobenzene | 2.60 | U | 0.95 | 2.60 | 5.20 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 54.8 | | 0.70 | 2.60 | 5.20 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 190 | | 1.30 | 5.20 | 10.4 | ug/Kg |
| 95-47-6 | o-Xylene | 85.7 | | 0.85 | 2.60 | 5.20 | ug/Kg |
| 100-42-5 | Styrene | 2.60 | U | 0.74 | 2.60 | 5.20 | ug/Kg |
| 75-25-2 | Bromoform | 2.60 | U | 0.90 | 2.60 | 5.20 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 89.9 | | 0.81 | 2.60 | 5.20 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 2.60 | U | 1.30 | 2.60 | 5.20 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 2.60 | U | 1.80 | 2.60 | 5.20 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 2.60 | U | 1.60 | 2.60 | 5.20 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 2.60 | U | 1.50 | 2.60 | 5.20 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 4.20 | U | 1.90 | 4.20 | 5.20 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.20 | U | 3.10 | 4.20 | 5.20 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 4.20 | U | 3.30 | 4.20 | 5.20 | ug/Kg |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 66.6 | | 71 - 136 | | 133% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 55.2 | | 78 - 119 | | 110% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 51.4 | | 85 - 116 | | 103% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 50.4 | | 79 - 119 | | 101% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 499000 | 7.707 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 998000 | 8.609 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 877000 | 11.414 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 339000 | 13.34 | | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | | |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 11M-N | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-07 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 75.9 |
| Sample Wt/Vol: | 6.32 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023069.D | 1 | 08/13/25 14:55 | VY081325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| 103-65-1 | n-propylbenzene | 11.2 | J | | | 12.6 | ug/Kg |
| 000620-14-4 | Benzene, 1-ethyl-3-methyl- | 220 | J | | | 12.7 | ug/Kg |
| 108-67-8 | 1,3,5-Trimethylbenzene | 150 | J | | | 12.7 | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | 410 | J | | | 13.0 | ug/Kg |
| 99-87-6 | p-Isopropyltoluene | 51.8 | J | | | 13.3 | ug/Kg |
| 000622-97-9 | Benzene, 1-ethenyl-4-methyl- | 3500 | J | | | 13.5 | ug/Kg |
| 104-51-8 | n-Butylbenzene | 2.40 | J | | | 13.6 | ug/Kg |
| 007525-62-4 | Benzene, 1-ethenyl-3-ethyl- | 130 | J | | | 14.0 | ug/Kg |
| 000104-55-2 | 2-Propenal, 3-phenyl- | 380 | J | | | 14.3 | ug/Kg |
| 002039-89-6 | Benzene, 2-ethenyl-1,4-dimethyl- | 200 | J | | | 14.5 | ug/Kg |
| 003454-07-7 | Benzene, 1-ethenyl-4-ethyl- | 310 | J | | | 14.6 | ug/Kg |
| 000270-82-6 | Benzo[c]thiophene | 470 | J | | | 15.2 | ug/Kg |
| 000090-12-0 | Naphthalene, 1-methyl- | 2400 | J | | | 16.2 | ug/Kg |
| 002471-83-2 | 1H-Indene, 1-ethylidene- | 1100 | J | | | 16.4 | ug/Kg |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023069.D
Acq On : 13 Aug 2025 14:55
Operator : SY/MD
Sample : Q2819-07
Misc : 6.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 14 01:24:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 499481 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 8.609 | 114 | 998493 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 877177 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 339290 | 50.000 | ug/l | # | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 316941 | 66.579 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 133.160% | | | | |
| 35) Dibromofluoromethane | 7.628 | 113 | 329759 | 55.193 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 110.380% | | | | |
| 50) Toluene-d8 | 10.103 | 98 | 1198822 | 51.362 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 102.720% | | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 378383 | 50.409 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 100.820% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 16) Acetone | 3.866 | 43 | 50603 | 49.067 | ug/l | | 97 |
| 17) Carbon Disulfide | 4.098 | 76 | 24835 | 1.582 | ug/l | | 97 |
| 25) 2-Butanone | 6.884 | 43 | 17580 | 12.534 | ug/l | | 95 |
| 52) Toluene | 10.164 | 92 | 104466 | 6.010 | ug/l | | 100 |
| 67) Ethyl Benzene | 11.511 | 91 | 1711204 | 52.554 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.621 | 106 | 2334647 | 183.584 | ug/l | | 99 |
| 69) o-Xylene | 11.950 | 106 | 979527 | 82.239 | ug/l | | 98 |
| 73) Isopropylbenzene | 12.255 | 105 | 2066252 | 86.285 | ug/l | | 76 |
| 78) n-propylbenzene | 12.590 | 91 | 304969 | 10.697 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.731 | 105 | 2717714 | 140.425 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.035 | 105 | 7563336 | 392.581 | ug/l | | 96 |
| 86) p-Isopropyltoluene | 13.285 | 119 | 1058617 | 49.669 | ug/l | # | 78 |
| 89) n-Butylbenzene | 13.609 | 91 | 44480m | 2.272 | ug/l | | |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023069.D
Acq On : 13 Aug 2025 14:55
Operator : SY/MD
Sample : Q2819-07
Misc : 6.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 14 01:24:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

**Manual Integrations APPROVED**

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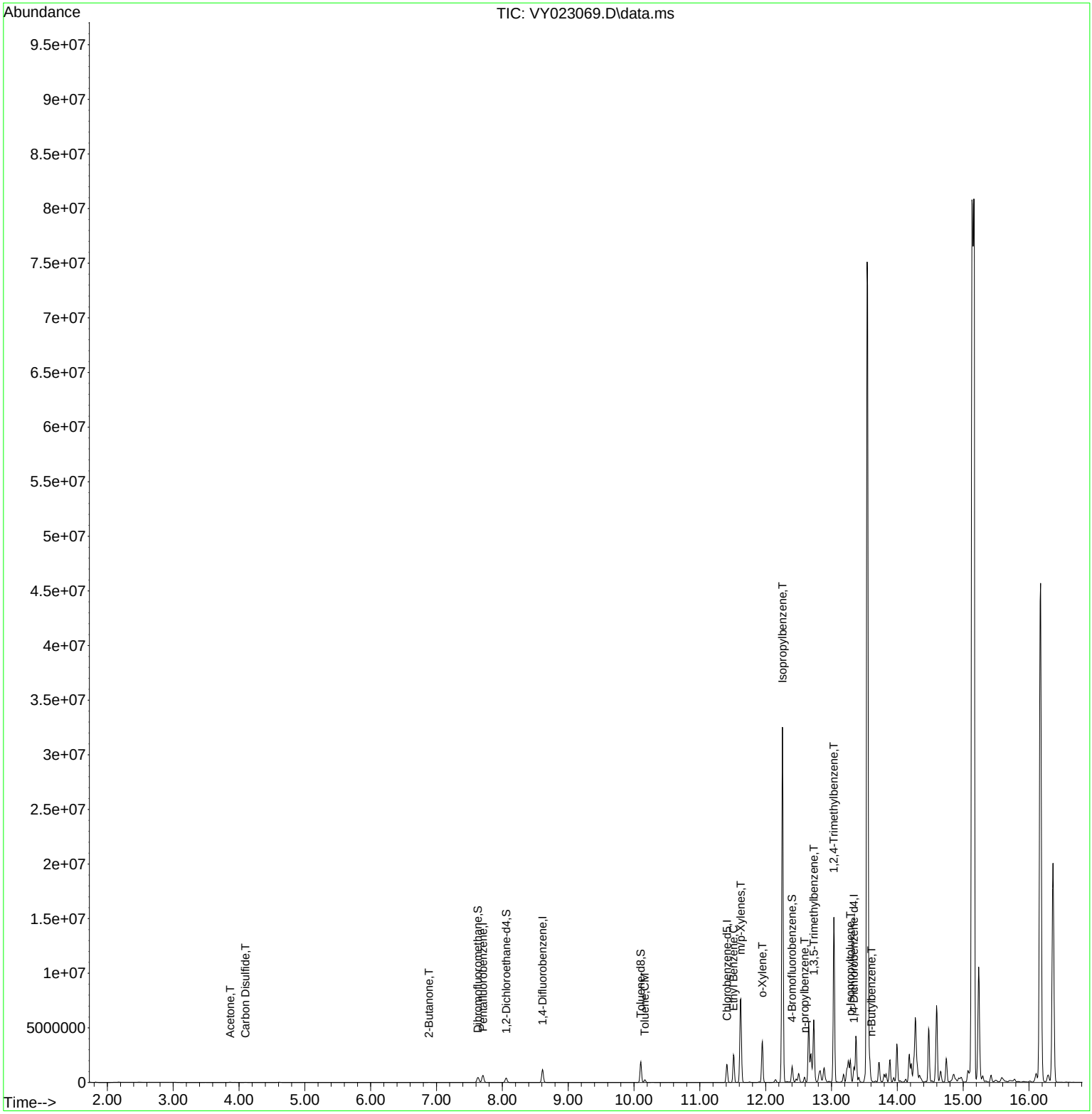
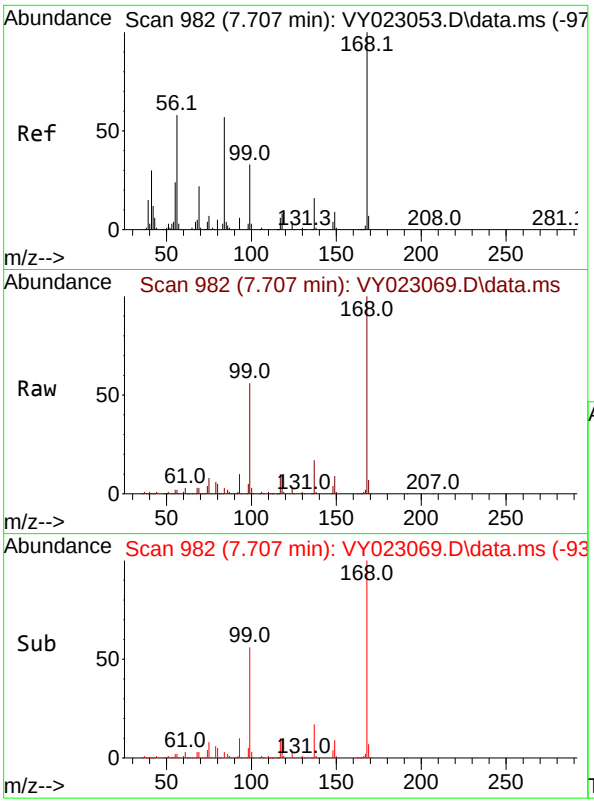
Supervised By :Semsettin Yesilyurt 08/19/2025






#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion:168 Resp: 49948

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 55.6 | 42.8 | 64.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

**Manual Integrations**
**APPROVED**

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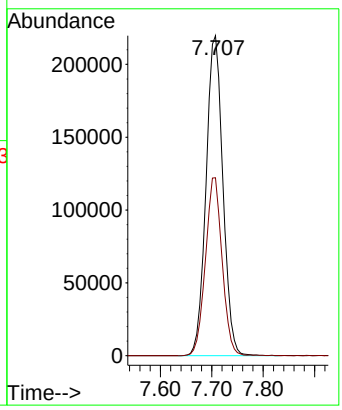
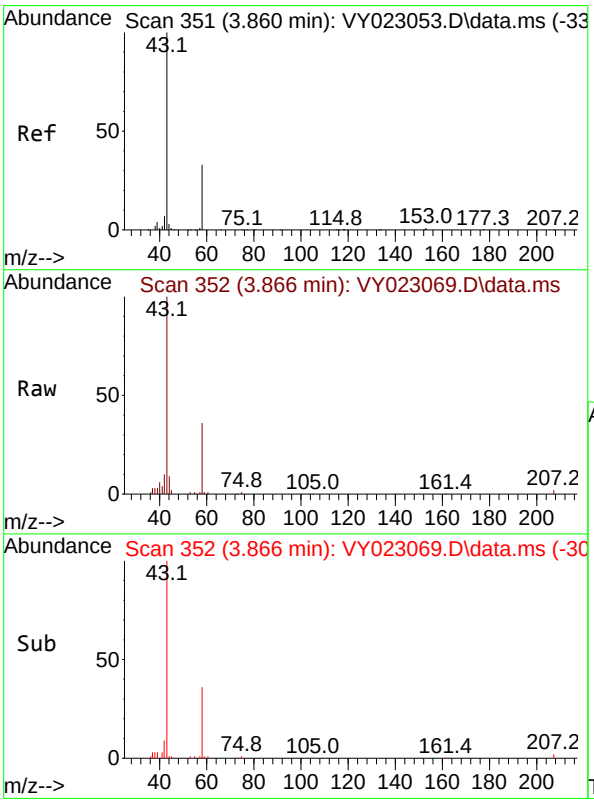
Supervised By :Semsettin Yesilyurt 08/19/2025

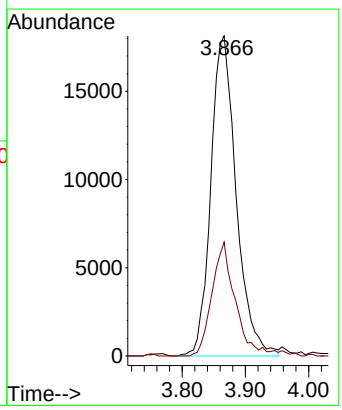


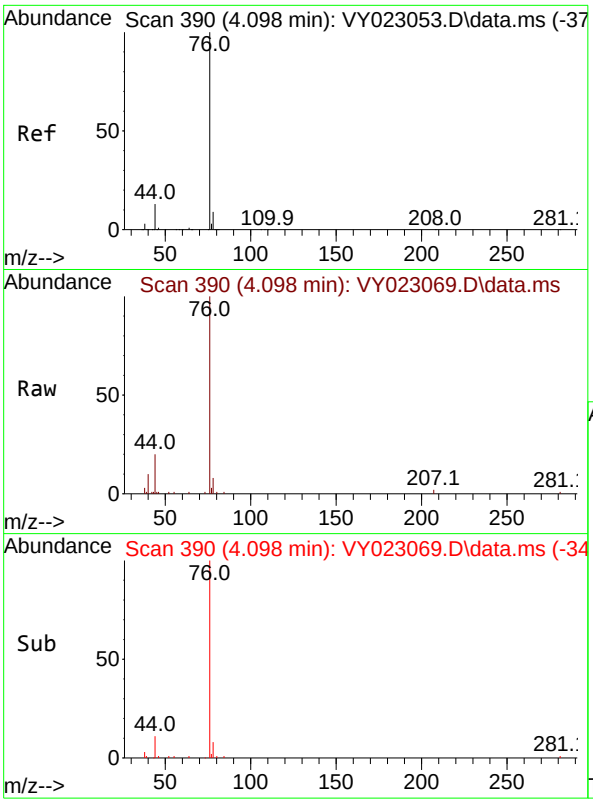




#16
Acetone
Concen: 49.067 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 43 Resp: 50603

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 35.5 | 27.1 | 40.7 |






#17
Carbon Disulfide
Concen: 1.582 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

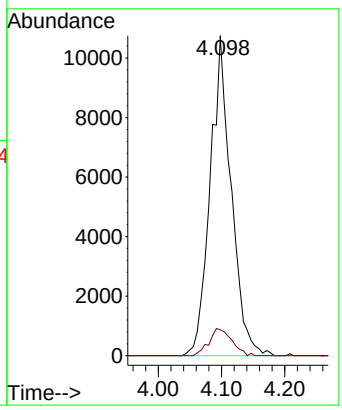
Tgt Ion: 76 Resp: 2483

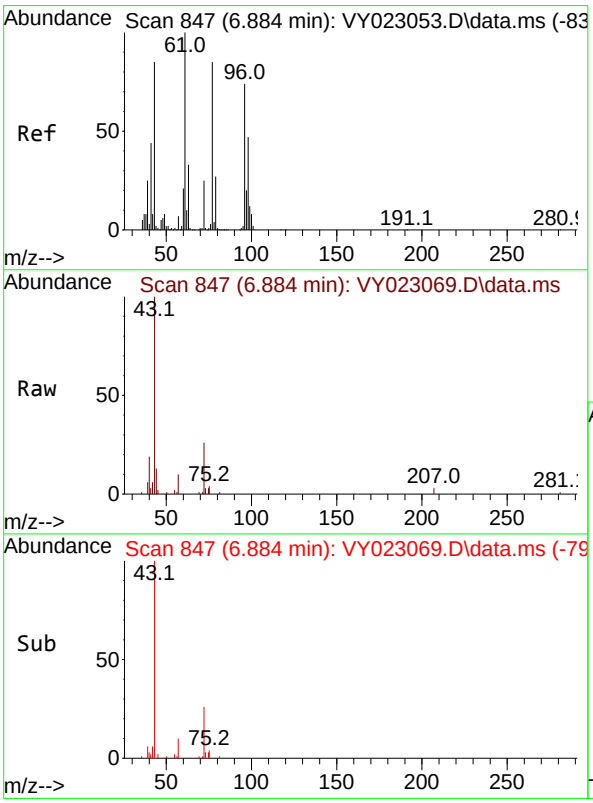
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.1 | 7.4 | 11.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

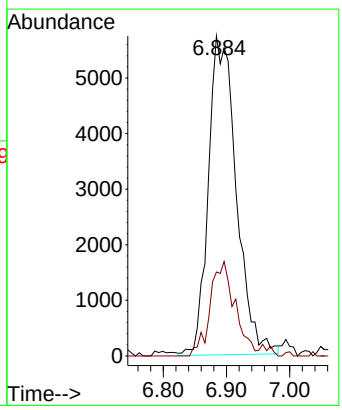


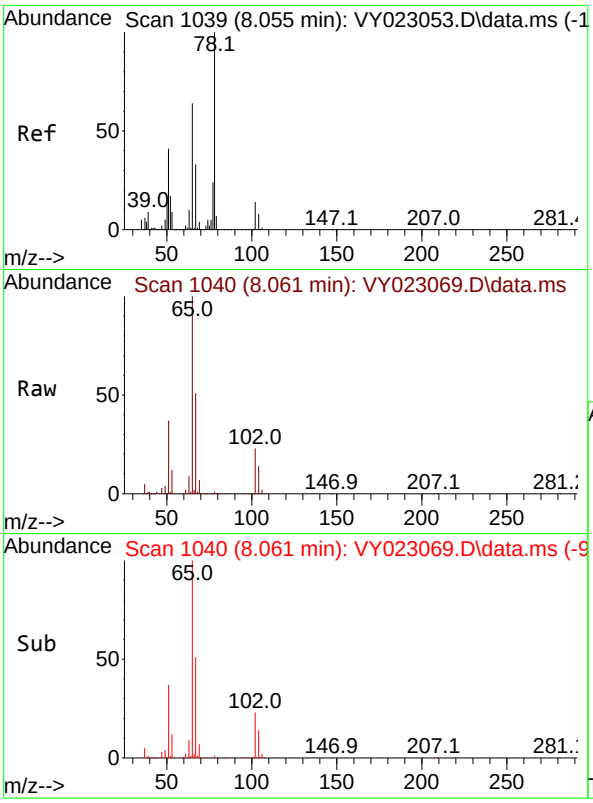




#25
2-Butanone
Concen: 12.534 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 43 Resp: 17580

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 26.5 | 23.5 | 35.3 |

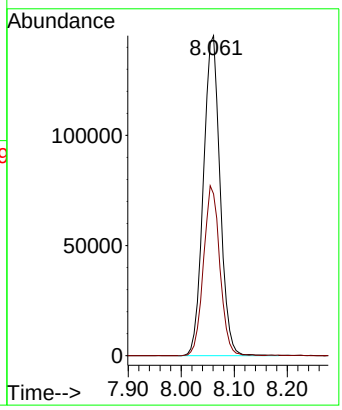





#33
1,2-Dichloroethane-d4
Concen: 66.579 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 65 Resp: 31694

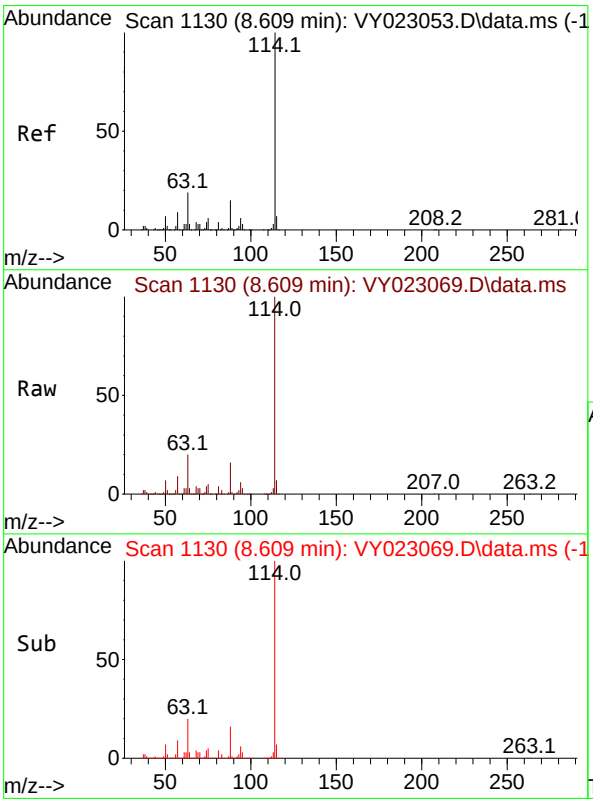
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.1 | 0.0 | 106.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

**Manual Integrations**
**APPROVED**

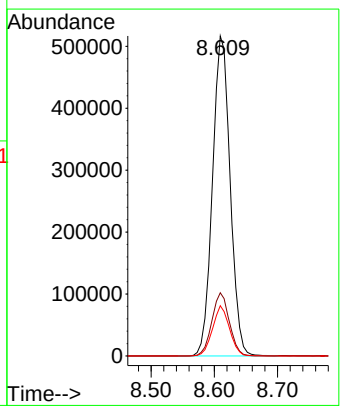
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

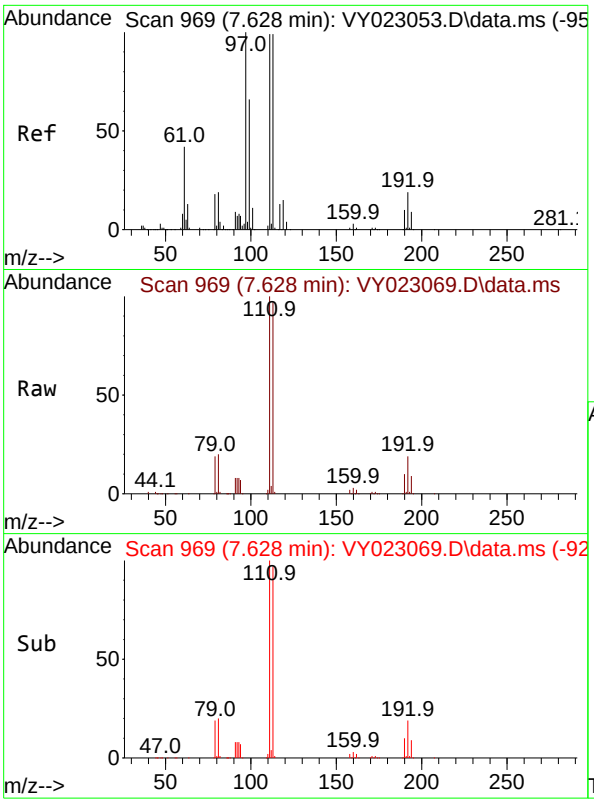



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion:114 Resp: 998493

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.8 | 0.0 | 38.4 |
| 88 | 15.7 | 0.0 | 30.0 |






#35
Dibromofluoromethane
Concen: 55.193 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion:113 Resp: 32975

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.2 | 81.1 | 121.7 |
| 192 | 19.7 | 16.2 | 24.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

**Manual Integrations**
**APPROVED**

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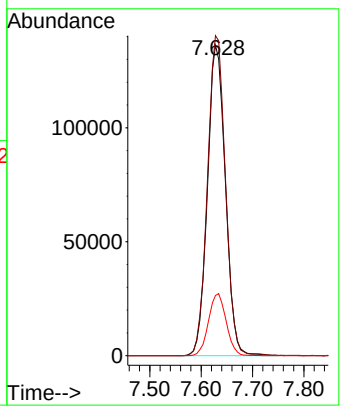
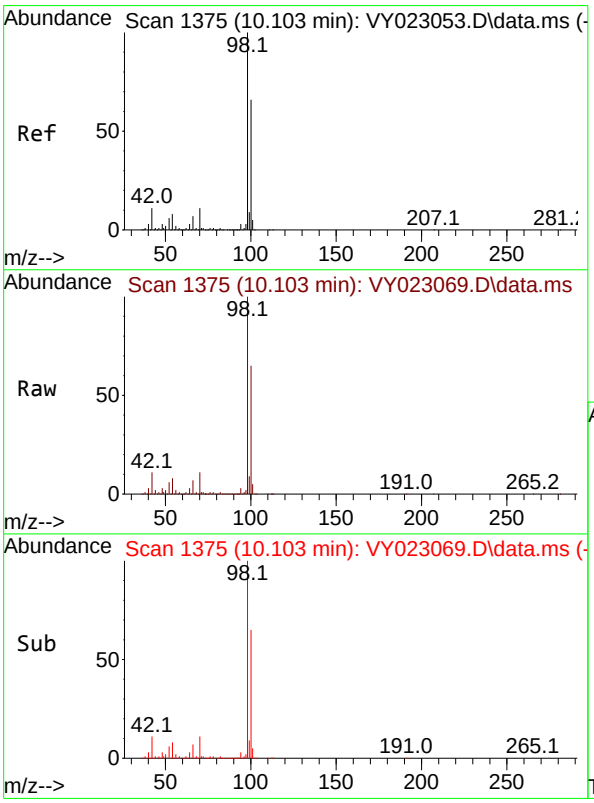
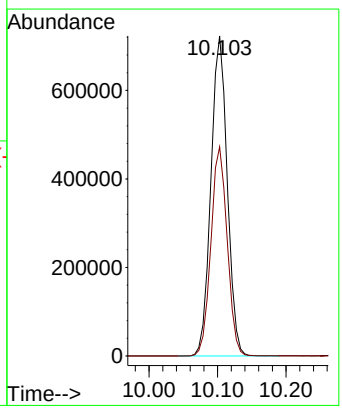


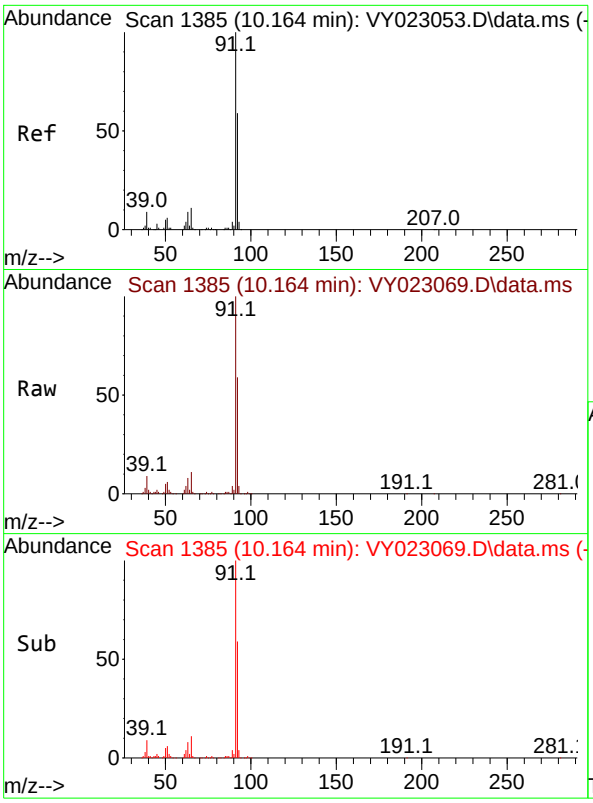




#50
Toluene-d8
Concen: 51.362 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 98 Resp: 1198822

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.0 | 52.3 | 78.5 |

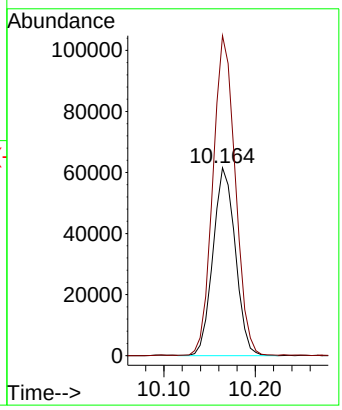





#52
Toluene
Concen: 6.010 ug/l
RT: 10.164 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 92 Resp: 10446

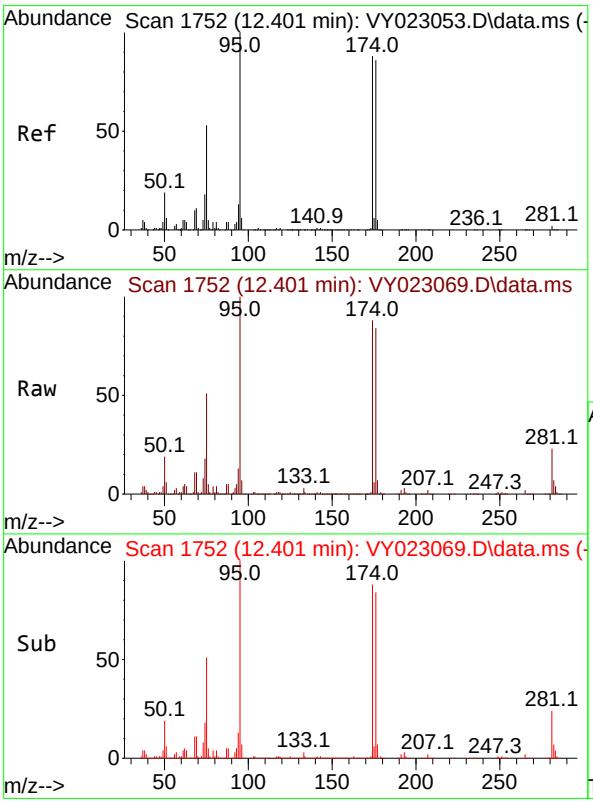
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 170.6 | 136.4 | 204.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

**Manual Integrations**
**APPROVED**

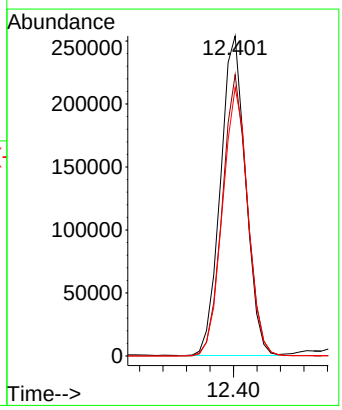
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

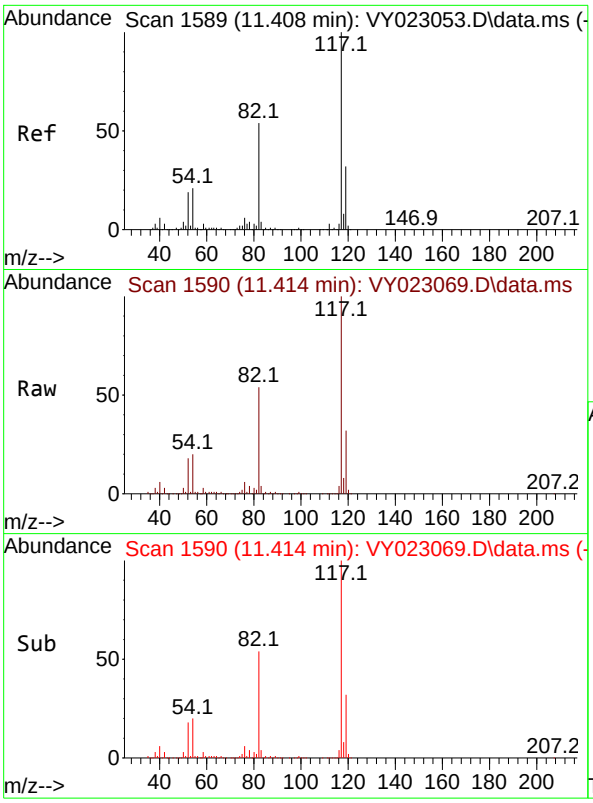



#62
4-Bromofluorobenzene
Concen: 50.409 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 95 Resp: 378383

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 87.1 | 0.0 | 171.6 |
| 176 | 84.7 | 0.0 | 167.6 |

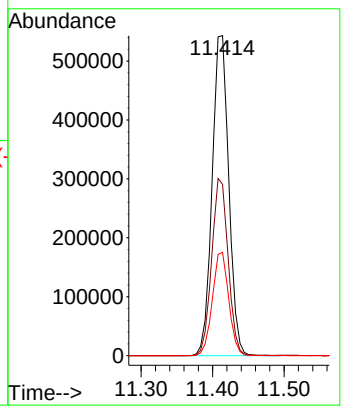





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion:117 Resp: 87717

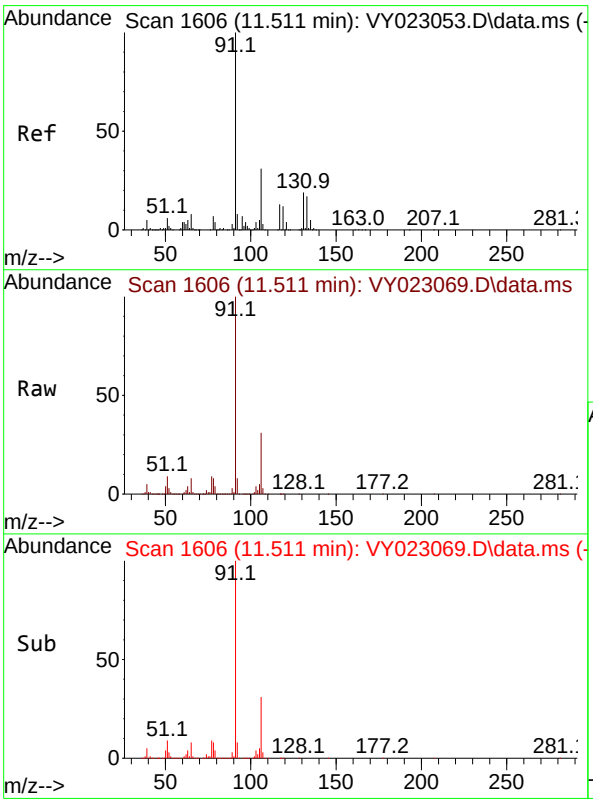
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 53.5 | 43.4 | 65.0 |
| 119 | 32.3 | 25.6 | 38.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

**Manual Integrations**
**APPROVED**

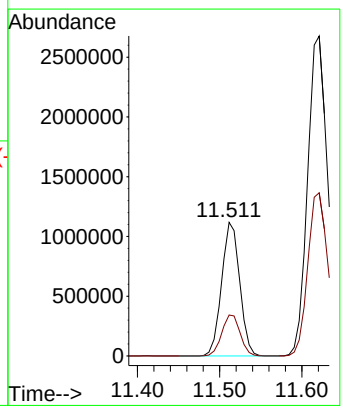
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

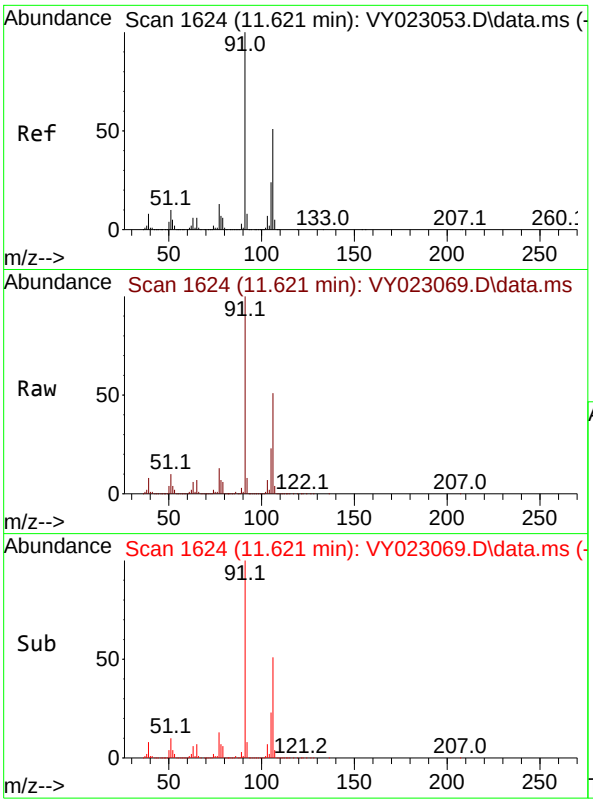



#67
Ethyl Benzene
Concen: 52.554 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 91 Resp: 1711204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.7 | 25.0 | 37.4 |

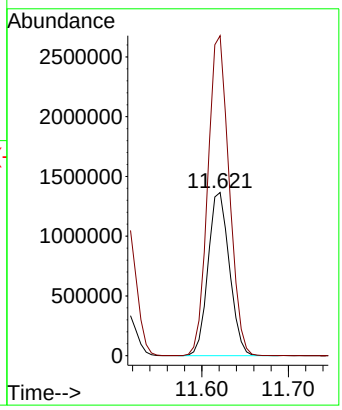





#68
m/p-Xylenes
Concen: 183.584 ug/l
RT: 11.621 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion:106 Resp: 233464

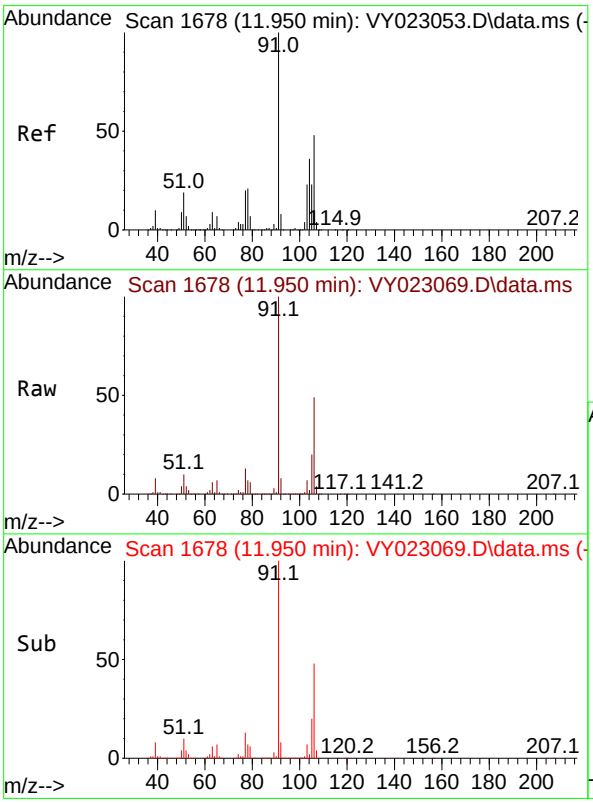
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 196.2 | 158.6 | 238.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

**Manual Integrations**
**APPROVED**

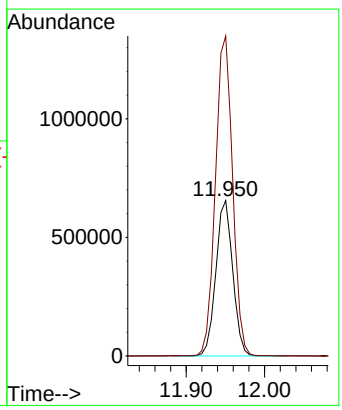
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

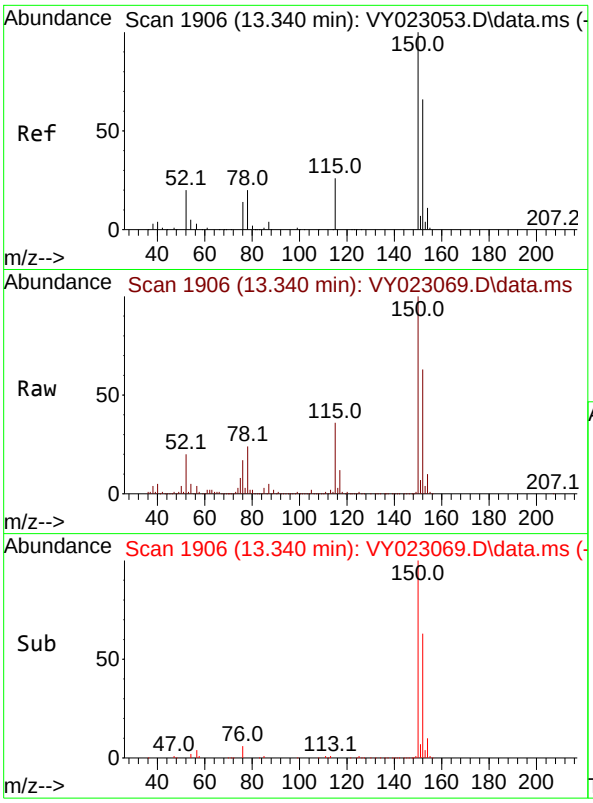



#69
o-Xylene
Concen: 82.239 ug/l
RT: 11.950 min Scan# 1678
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion:106 Resp: 979527

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 210.0 | 103.2 | 309.4 |

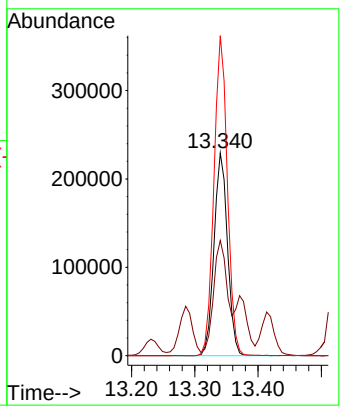





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

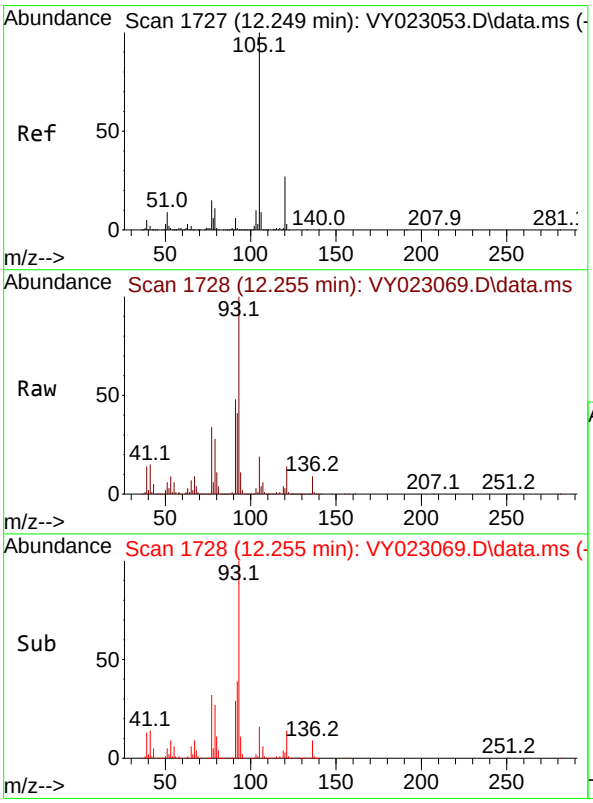
Tgt Ion:152 Resp: 33929

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 0.0 | 28.2 | 84.6# |
| 150 | 157.3 | 0.0 | 348.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

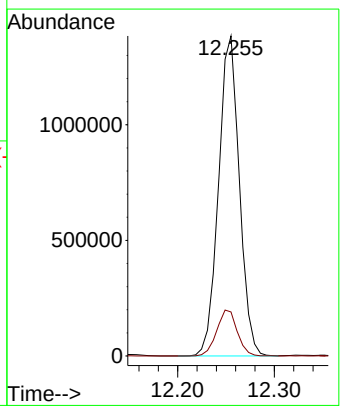
**Manual Integrations**
**APPROVED**
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

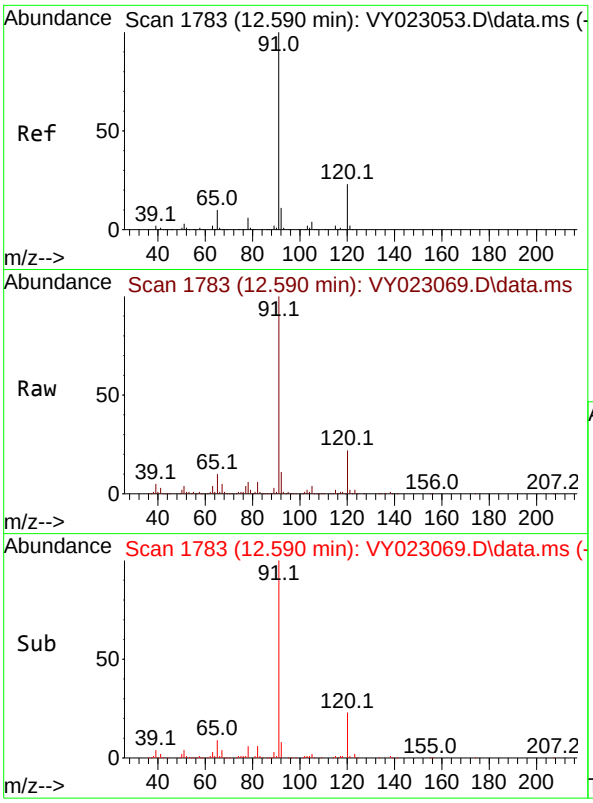



#73
Isopropylbenzene
Concen: 86.285 ug/l
RT: 12.255 min Scan# 1728
Delta R.T. 0.006 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion:105 Resp: 2066252

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 14.2 | 13.4 | 40.2 |

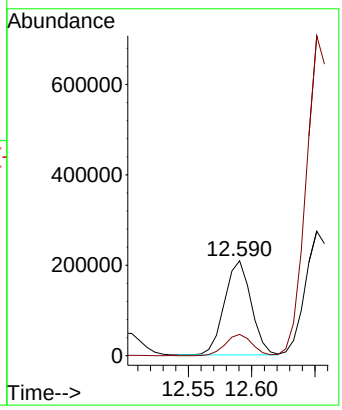





#78
n-propylbenzene
Concen: 10.697 ug/l
RT: 12.590 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

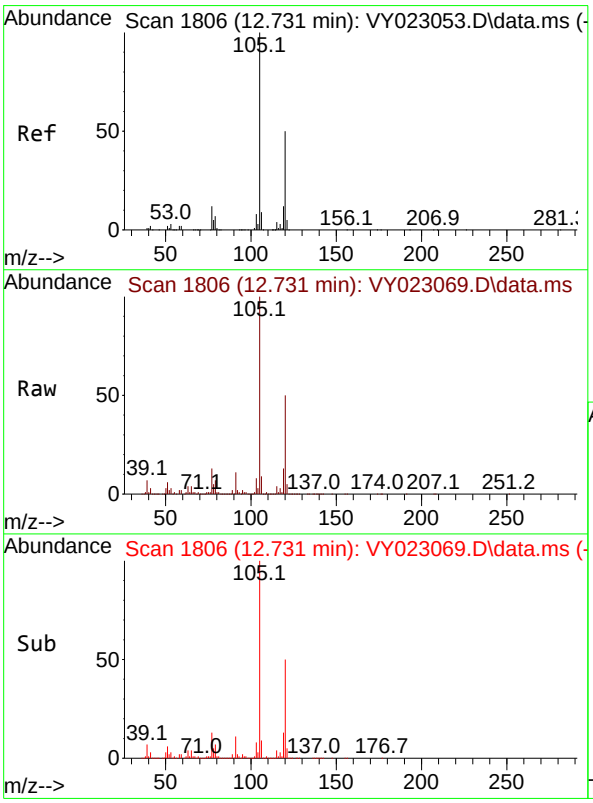
Tgt Ion: 91 Resp: 30496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.8 | 11.5 | 34.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

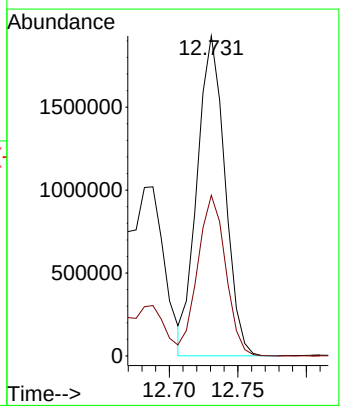
**Manual Integrations**
**APPROVED**
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

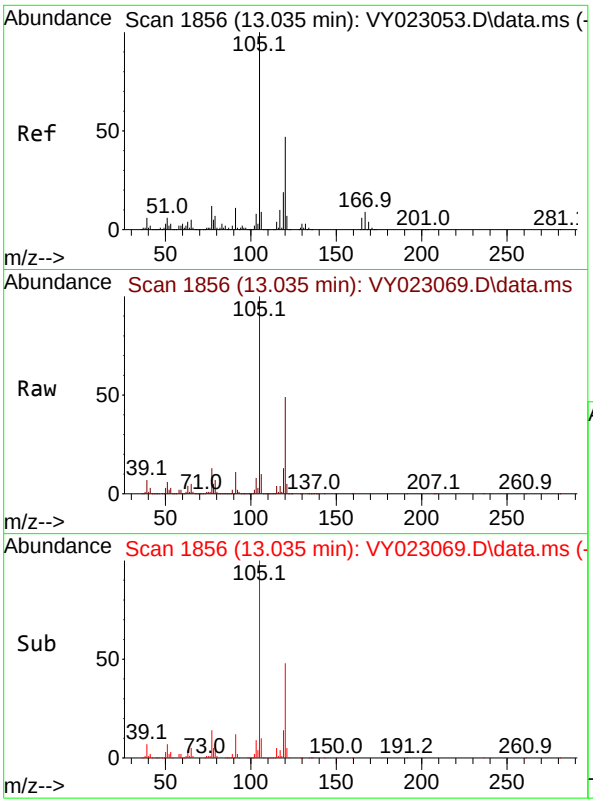



#80
1,3,5-Trimethylbenzene
Concen: 140.425 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion:105 Resp: 2717714

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 50.5 | 24.8 | 74.4 |

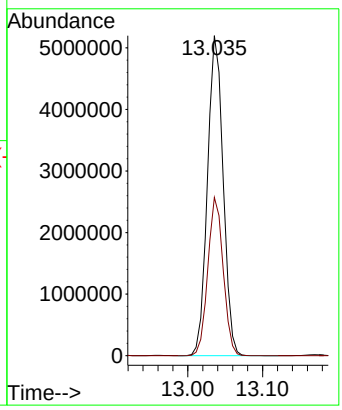





#84
1,2,4-Trimethylbenzene
Concen: 392.581 ug/l
RT: 13.035 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion:105 Resp: 756333

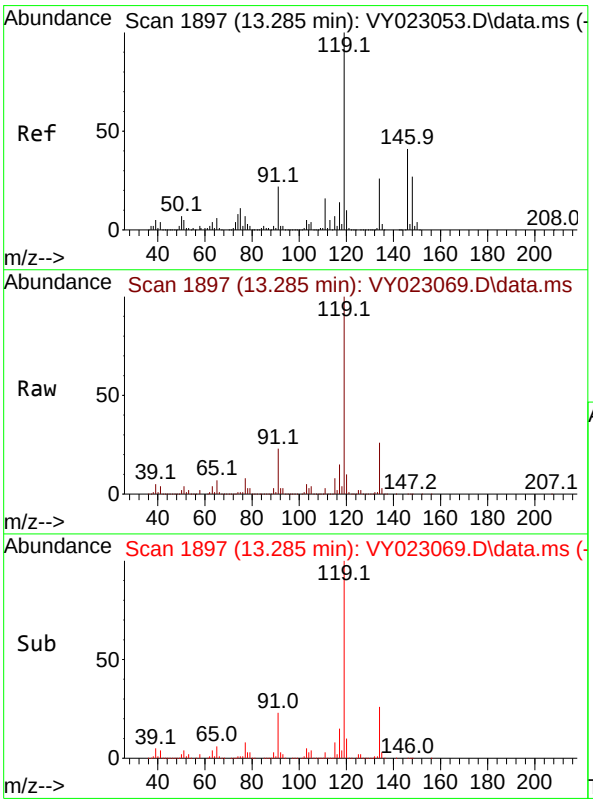
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.4 | 23.0 | 69.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

**Manual Integrations**
**APPROVED**

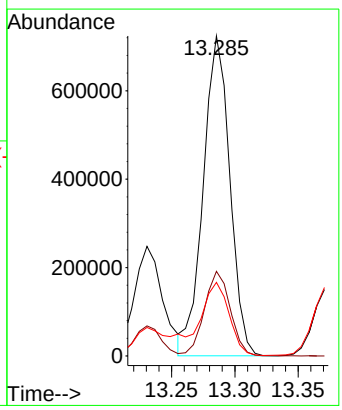
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

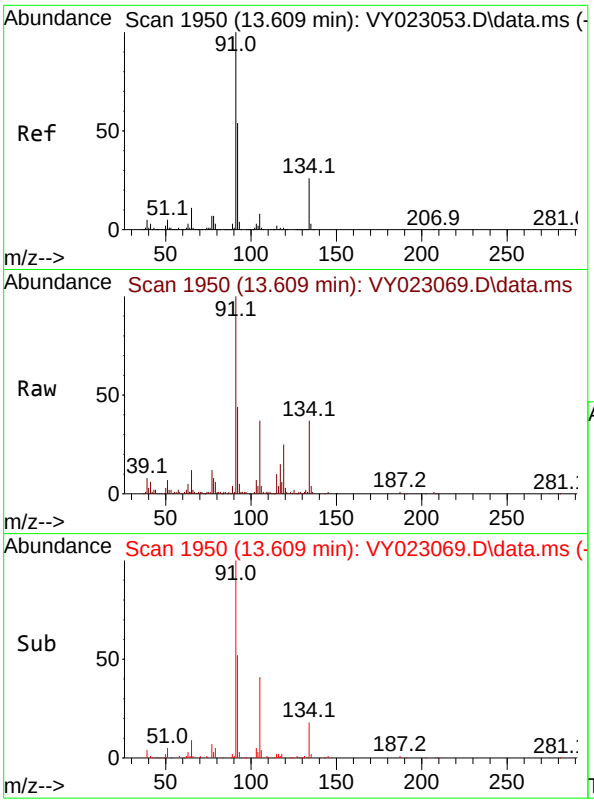



#86
p-Isopropyltoluene
Concen: 49.669 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion:119 Resp: 1058617

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.8 | 13.2 | 39.6 |
| 91 | 0.0 | 11.3 | 33.8# |

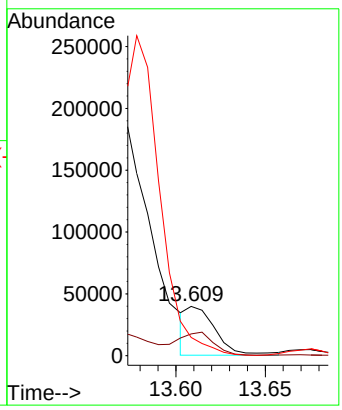





#89
n-Butylbenzene
Concen: 2.272 ug/l m
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 91 Resp: 4448

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 2105.1 | 26.9 | 80.1 |
| 134 | 162.9 | 13.2 | 39.5# |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023069.D
Acq On : 13 Aug 2025 14:55
Operator : SY/MD
Sample : Q2819-07
Misc : 6.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Title : SW846 8260

Signal : TIC: VY023069.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 7.707 | 975 | 982 | 994 | rVB | 640528 | 1465493 | 1.00% | 0.234% |
| 2 | 8.609 | 1121 | 1130 | 1144 | rBV | 1192443 | 2299267 | 1.57% | 0.367% |
| 3 | 10.103 | 1365 | 1375 | 1381 | rBV | 1882026 | 3158063 | 2.16% | 0.504% |
| 4 | 11.408 | 1581 | 1589 | 1599 | rBV | 1656961 | 2685080 | 1.84% | 0.429% |
| 5 | 11.511 | 1599 | 1606 | 1614 | rVV | 2521870 | 3882467 | 2.65% | 0.620% |
| 6 | 11.621 | 1614 | 1624 | 1635 | rVB | 7645675 | 13228639 | 9.04% | 2.112% |
| 7 | 11.950 | 1672 | 1678 | 1688 | rVB | 3741379 | 5708452 | 3.90% | 0.911% |
| 8 | 12.255 | 1719 | 1728 | 1736 | rBV | 32518009 | 47888370 | 32.73% | 7.644% |
| 9 | 12.401 | 1746 | 1752 | 1758 | rBV2 | 1445602 | 2400951 | 1.64% | 0.383% |
| 10 | 12.651 | 1788 | 1793 | 1796 | rBV | 5507560 | 8082457 | 5.52% | 1.290% |
| 11 | 12.688 | 1796 | 1799 | 1802 | rVV | 2562771 | 4257149 | 2.91% | 0.680% |
| 12 | 12.731 | 1802 | 1806 | 1814 | rVV | 5698182 | 8837439 | 6.04% | 1.411% |
| 13 | 12.828 | 1814 | 1822 | 1826 | rVV4 | 1042276 | 2431751 | 1.66% | 0.388% |
| 14 | 12.889 | 1826 | 1832 | 1840 | rVB2 | 1311751 | 2545538 | 1.74% | 0.406% |
| 15 | 13.035 | 1847 | 1856 | 1863 | rBV | 15086973 | 21534809 | 14.72% | 3.438% |
| 16 | 13.255 | 1884 | 1892 | 1895 | rVV2 | 1897277 | 4611162 | 3.15% | 0.736% |
| 17 | 13.285 | 1895 | 1897 | 1902 | rVB | 1933028 | 2287214 | 1.56% | 0.365% |
| 18 | 13.340 | 1902 | 1906 | 1908 | rBV | 1300626 | 1932456 | 1.32% | 0.308% |
| 19 | 13.371 | 1908 | 1911 | 1916 | rVB | 3992559 | 5567316 | 3.81% | 0.889% |
| 20 | 13.541 | 1928 | 1939 | 1954 | rBV3 | 75110711 | 128526521 | 87.85% | 20.517% |
| 21 | 13.724 | 1963 | 1969 | 1976 | rBV | 1779234 | 2824394 | 1.93% | 0.451% |
| 22 | 13.889 | 1991 | 1996 | 2001 | rVB | 2028479 | 2976250 | 2.03% | 0.475% |
| 23 | 13.993 | 2008 | 2013 | 2019 | rVB | 3431691 | 4959358 | 3.39% | 0.792% |
| 24 | 14.182 | 2039 | 2044 | 2047 | rBV | 2539329 | 4184281 | 2.86% | 0.668% |
| 25 | 14.212 | 2047 | 2049 | 2052 | rVV2 | 1645565 | 2094973 | 1.43% | 0.334% |
| 26 | 14.273 | 2052 | 2059 | 2067 | rVV2 | 5893453 | 14137476 | 9.66% | 2.257% |
| 27 | 14.474 | 2087 | 2092 | 2098 | rBV | 4834556 | 7238577 | 4.95% | 1.155% |
| 28 | 14.596 | 2104 | 2112 | 2117 | rBV2 | 7011926 | 11629595 | 7.95% | 1.856% |
| 29 | 14.657 | 2117 | 2122 | 2130 | rVB3 | 991819 | 1779665 | 1.22% | 0.284% |
| 30 | 14.742 | 2130 | 2136 | 2144 | rBV | 2133448 | 3326539 | 2.27% | 0.531% |
| 31 | 14.858 | 2144 | 2155 | 2163 | rBV4 | 680222 | 1943668 | 1.33% | 0.310% |
| 32 | 15.072 | 2184 | 2190 | 2193 | rBV2 | 1040308 | 1880328 | 1.29% | 0.300% |
| 33 | 15.133 | 2194 | 2200 | 2203 | rBV2 | 79930443 | 146304491 | 100.00% | 23.354% |
| 34 | 15.236 | 2211 | 2217 | 2224 | rBV | 10263826 | 17285549 | 11.81% | 2.759% |
| 35 | 16.108 | 2351 | 2360 | 2363 | rBV2 | 783023 | 1628574 | 1.11% | 0.260% |
| 36 | 16.175 | 2363 | 2371 | 2383 | rVV2 | 45674109 | 88287523 | 60.35% | 14.093% |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023069.D
Acq On : 13 Aug 2025 14:55
Operator : SY/MD
Sample : Q2819-07
Misc : 6.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Title : SW846 8260

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 37 | 16.291 | 2383 | 2390 | 2395 | rVV | 650436 | 1476483 | 1.01% | 0.236% |
| 38 | 16.364 | 2395 | 2402 | 2413 | rVB | 20051525 | 39164484 | 26.77% | 6.252% |

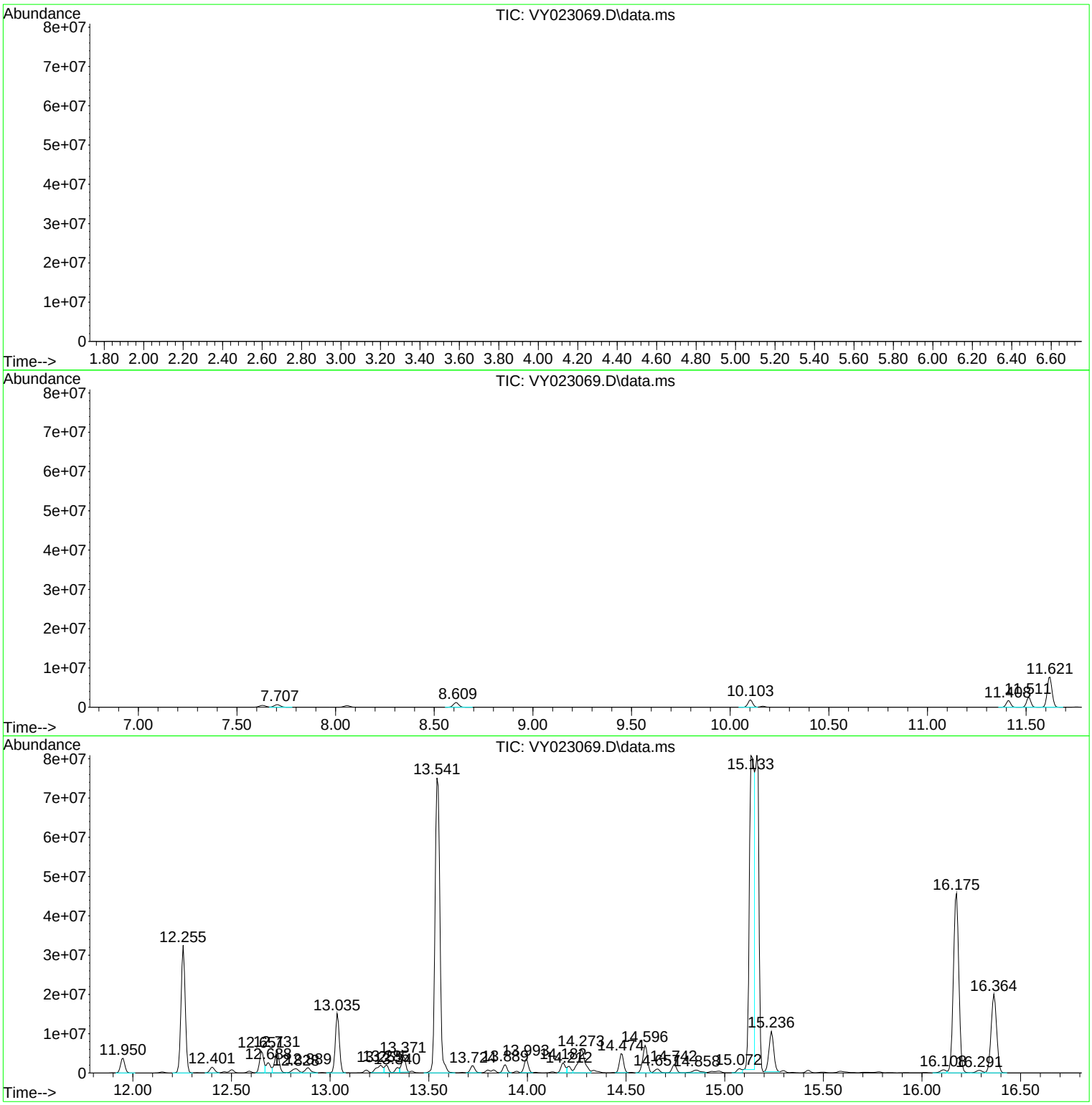
Sum of corrected areas: 626452802

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023069.D
Acq On : 13 Aug 2025 14:55
Operator : SY/MD
Sample : Q2819-07
Misc : 6.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023069.D
Acq On : 13 Aug 2025 14:55
Operator : SY/MD
Sample : Q2819-07
Misc : 6.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

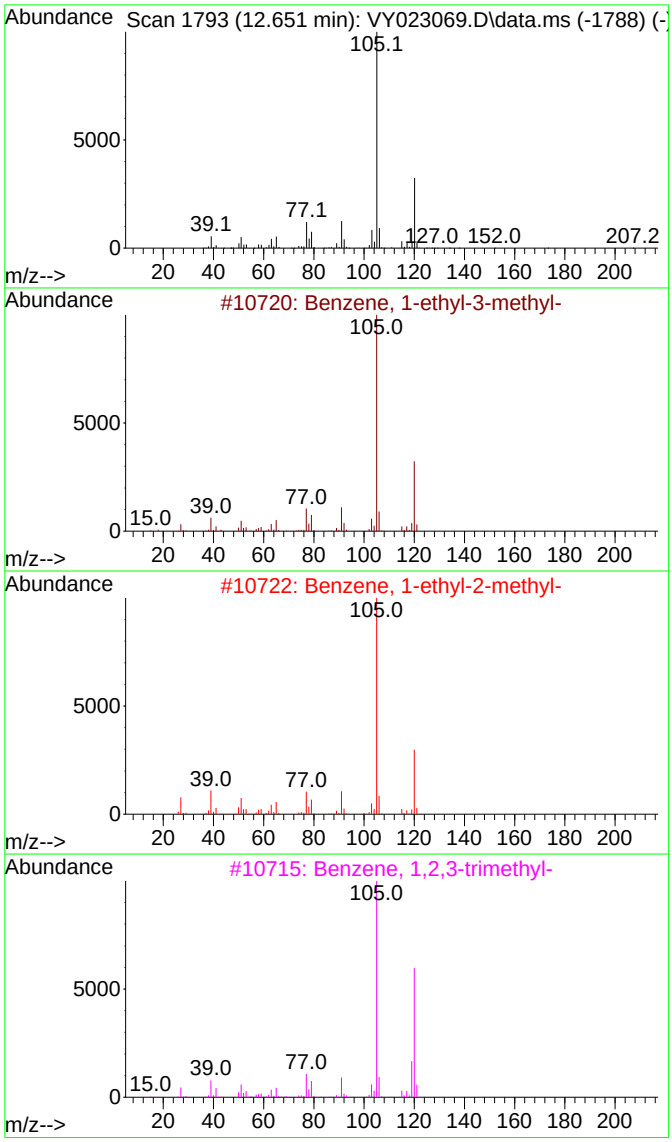
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

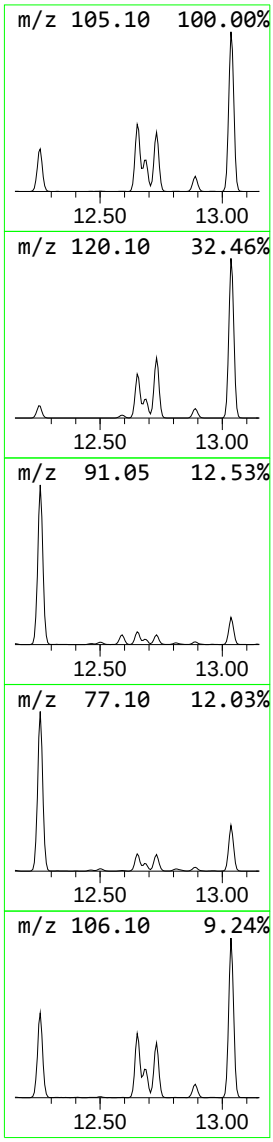
**********

Peak Number 1 Benzene, 1-ethyl-3-methyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.651 | 209.12 ug/l | 8082460 | 1,4-Dichlorobenzene-d4 | 13.340 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 95 |
| 2 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 95 |
| 3 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 91 |
| 4 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 91 |
| 5 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 91 |



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Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023069.D
Acq On    : 13 Aug 2025  14:55
Operator  : SY/MD
Sample    : Q2819-07
Misc      : 6.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial  : 12   Sample Multiplier: 1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title  : SW846 8260

TIC Library   : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P
```

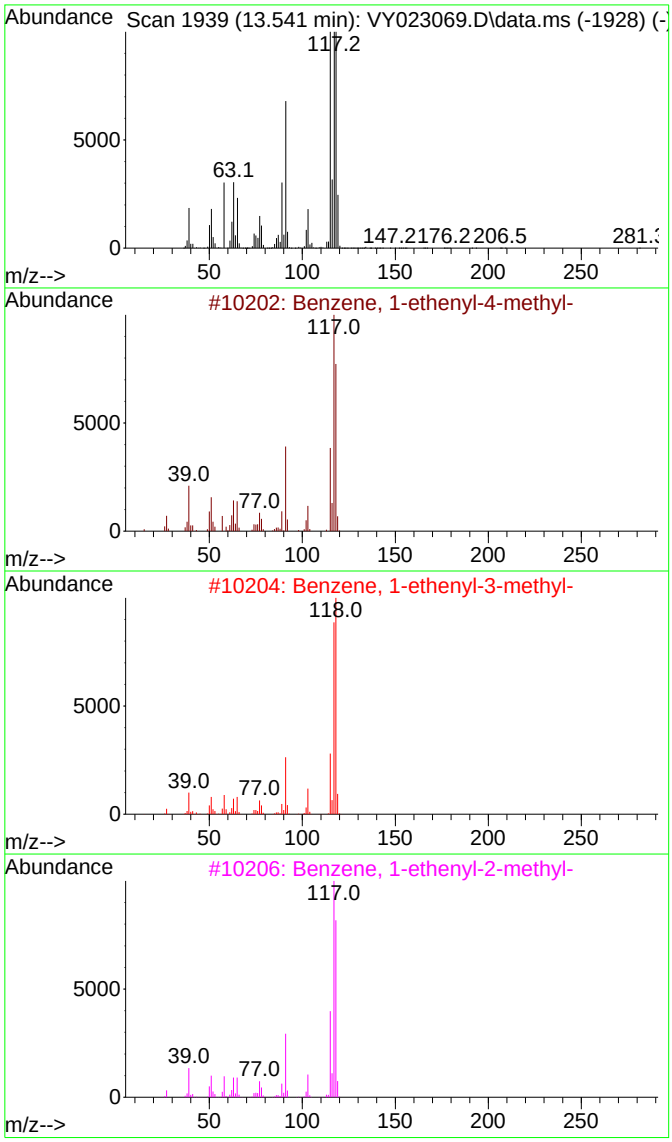
**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

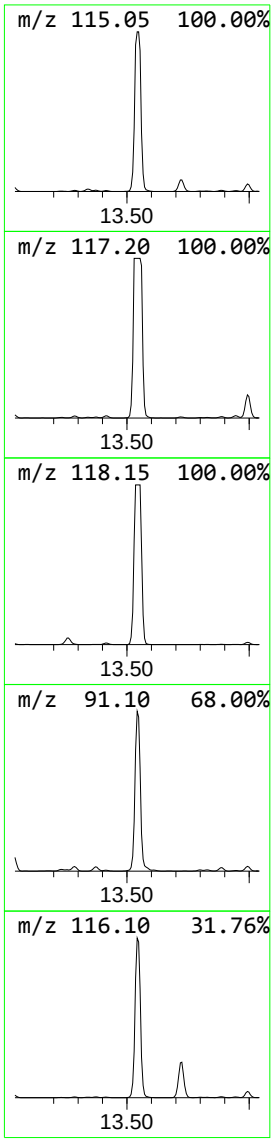
**********

Peak Number 2 Benzene, 1-ethenyl-4-methyl- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.541 | 3325.47 ug/l | 128527000 | 1,4-Dichlorobenzene-d4 | 13.340 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethenyl-4-methyl- | 118 | C9H10 | 000622-97-9 | 64 |
| 2 | Benzene, 1-ethenyl-3-methyl- | 118 | C9H10 | 000100-80-1 | 64 |
| 3 | Benzene, 1-ethenyl-2-methyl- | 118 | C9H10 | 000611-15-4 | 60 |
| 4 | Benzene, 2-propenyl- | 118 | C9H10 | 000300-57-2 | 50 |
| 5 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 118 | C9H10 | 022250-74-4 | 49 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023069.D
Acq On : 13 Aug 2025 14:55
Operator : SY/MD
Sample : Q2819-07
Misc : 6.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

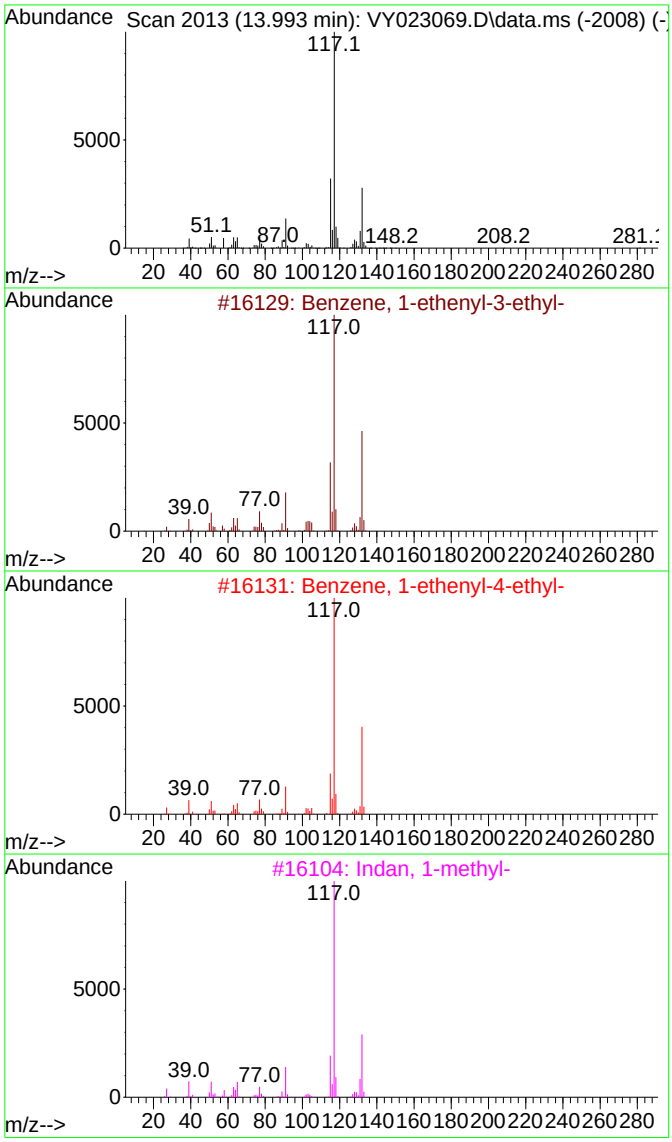
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

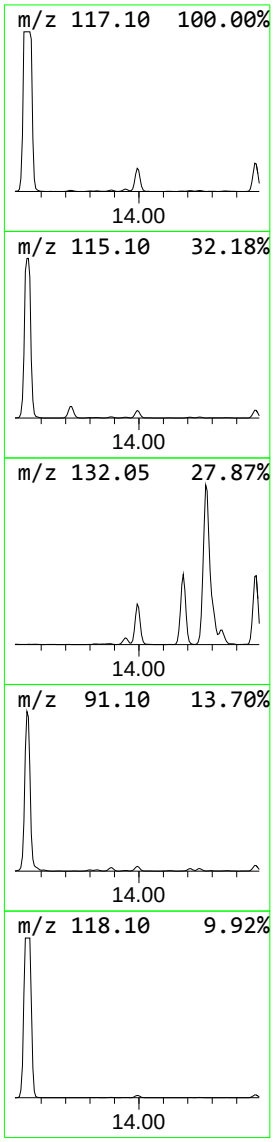
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 3 Benzene, 1-ethenyl-3-ethyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.993 | 128.32 ug/l | 4959360 | 1,4-Dichlorobenzene-d4 | 13.340 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethenyl-3-ethyl- | 132 | C10H12 | 007525-62-4 | 90 |
| 2 | Benzene, 1-ethenyl-4-ethyl- | 132 | C10H12 | 003454-07-7 | 87 |
| 3 | Indan, 1-methyl- | 132 | C10H12 | 000767-58-8 | 87 |
| 4 | Benzene, (2-methyl-1-propenyl)- | 132 | C10H12 | 000768-49-0 | 87 |
| 5 | Benzene, 2-butenyl- | 132 | C10H12 | 001560-06-1 | 83 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023069.D
Acq On : 13 Aug 2025 14:55
Operator : SY/MD
Sample : Q2819-07
Misc : 6.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

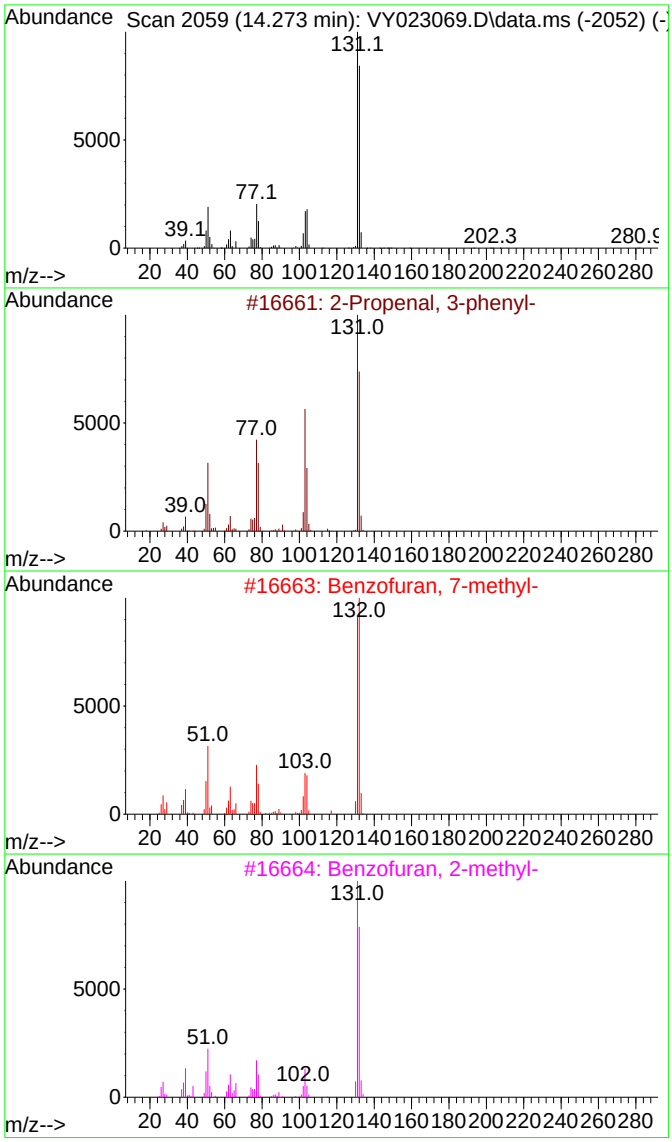
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

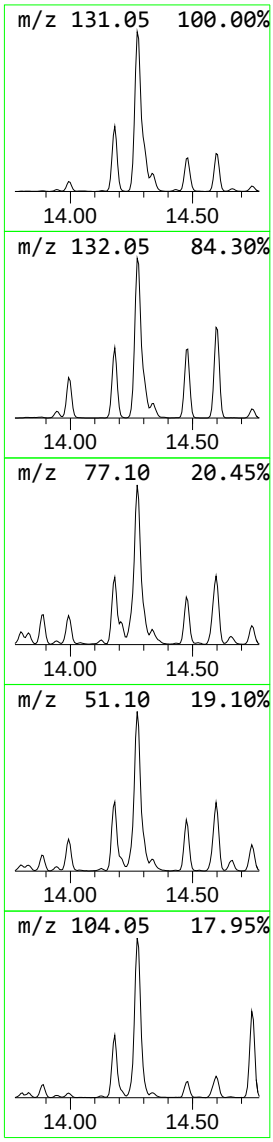
**********

Peak Number 4 2-Propenal, 3-phenyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.273 | 365.79 ug/l | 14137500 | 1,4-Dichlorobenzene-d4 | 13.340 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Propenal, 3-phenyl- | 132 | C9H8O | 000104-55-2 | 94 |
| 2 | Benzofuran, 7-methyl- | 132 | C9H8O | 017059-52-8 | 94 |
| 3 | Benzofuran, 2-methyl- | 132 | C9H8O | 004265-25-2 | 91 |
| 4 | Cinnamaldehyde, (E)- | 132 | C9H8O | 014371-10-9 | 91 |
| 5 | 3-Phenyl-2-propyn-1-ol | 132 | C9H8O | 001504-58-1 | 91 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023069.D
Acq On : 13 Aug 2025 14:55
Operator : SY/MD
Sample : Q2819-07
Misc : 6.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

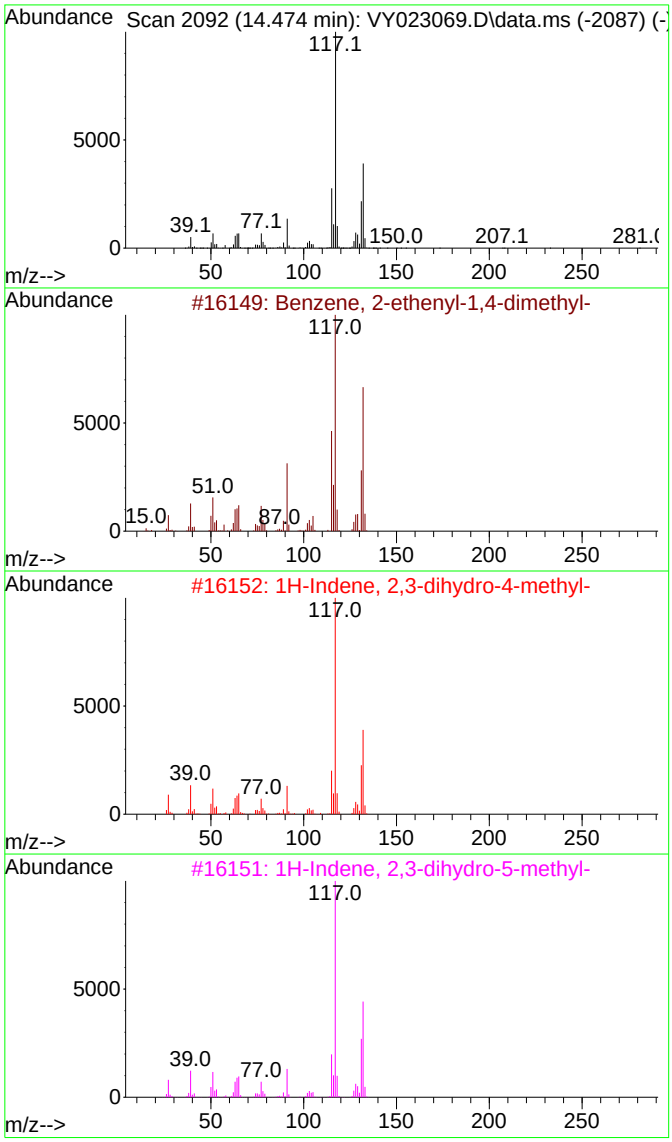
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

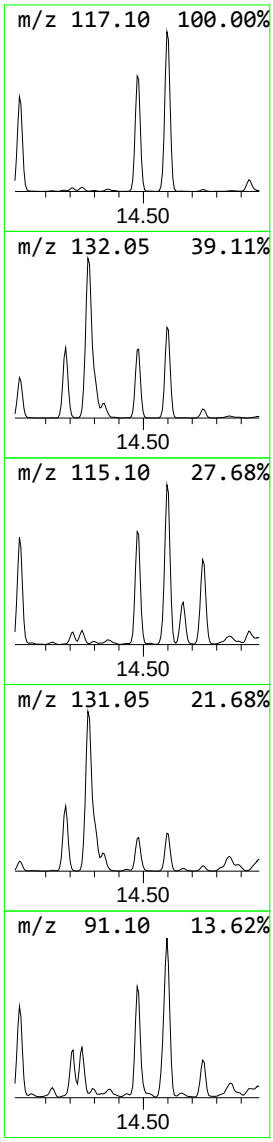
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 5 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.474 | 187.29 ug/l | 7238580 | 1,4-Dichlorobenzene-d4 | 13.340 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 2-ethenyl-1,4-dimethyl- | 132 | C10H12 | 002039-89-6 | 96 |
| 2 | 1H-Indene, 2,3-dihydro-4-methyl- | 132 | C10H12 | 000824-22-6 | 95 |
| 3 | 1H-Indene, 2,3-dihydro-5-methyl- | 132 | C10H12 | 000874-35-1 | 93 |
| 4 | Benzene, 1-ethenyl-3-ethyl- | 132 | C10H12 | 007525-62-4 | 90 |
| 5 | 3-Phenylbut-1-ene | 132 | C10H12 | 000934-10-1 | 90 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023069.D
Acq On : 13 Aug 2025 14:55
Operator : SY/MD
Sample : Q2819-07
Misc : 6.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

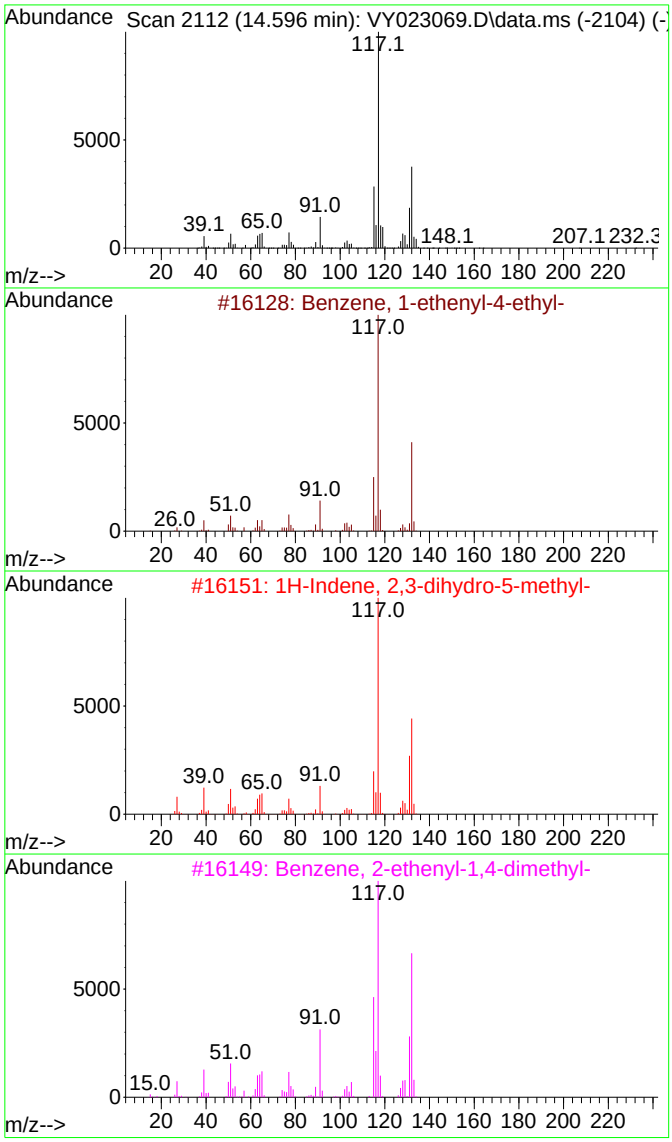
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

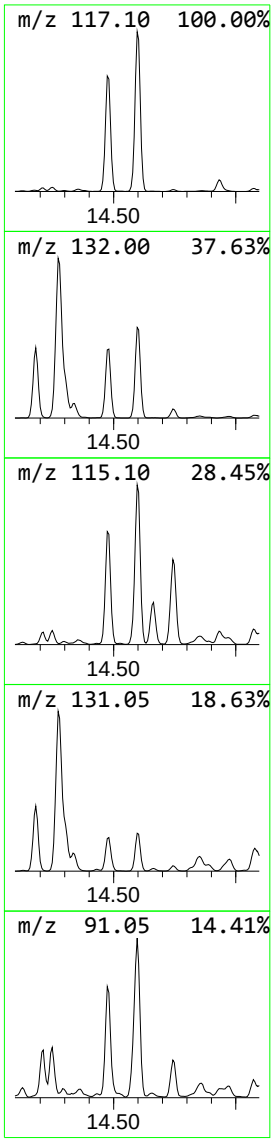
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 6 Benzene, 1-ethenyl-4-ethyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.596 | 300.90 ug/l | 11629600 | 1,4-Dichlorobenzene-d4 | 13.340 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethenyl-4-ethyl- | 132 | C10H12 | 003454-07-7 | 91 |
| 2 | 1H-Indene, 2,3-dihydro-5-methyl- | 132 | C10H12 | 000874-35-1 | 91 |
| 3 | Benzene, 2-ethenyl-1,4-dimethyl- | 132 | C10H12 | 002039-89-6 | 91 |
| 4 | 3-Phenylbut-1-ene | 132 | C10H12 | 000934-10-1 | 90 |
| 5 | 1-Phenyl-1-butene | 132 | C10H12 | 000824-90-8 | 87 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023069.D
Acq On : 13 Aug 2025 14:55
Operator : SY/MD
Sample : Q2819-07
Misc : 6.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

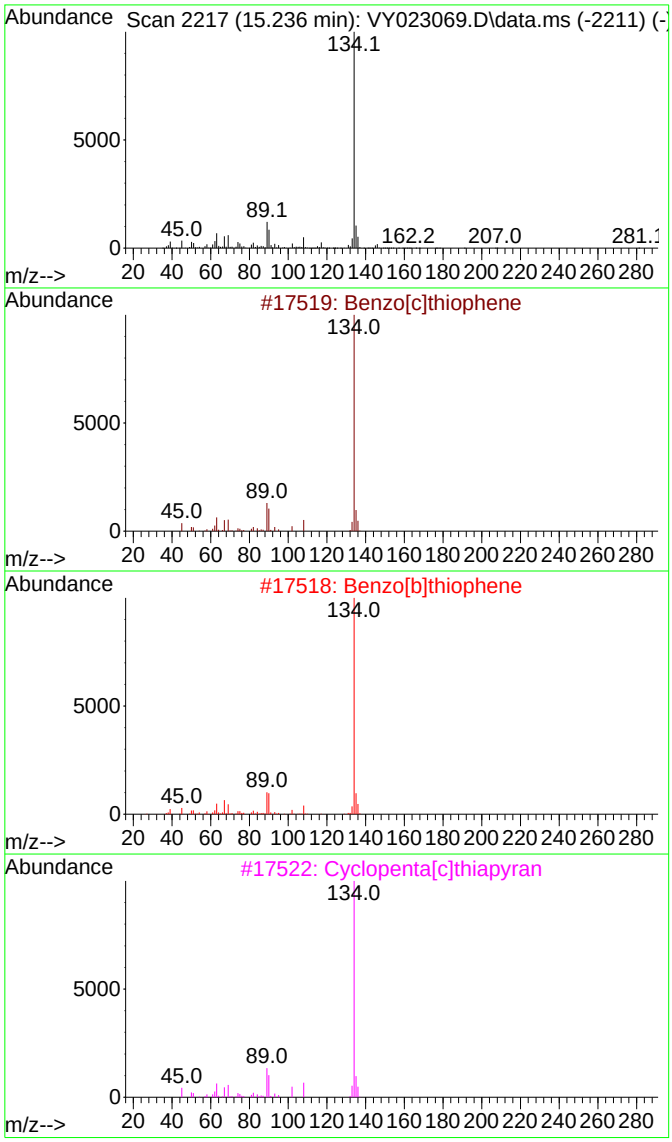
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

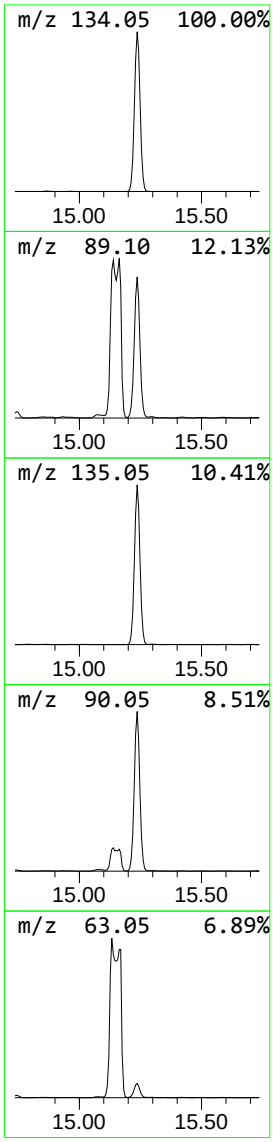
**********

Peak Number 8 Benzo[c]thiophene Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.236 | 447.24 ug/l | 17285500 | 1,4-Dichlorobenzene-d4 | 13.340 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[c]thiophene | 134 | C8H6S | 000270-82-6 | 97 |
| 2 | Benzo[b]thiophene | 134 | C8H6S | 000095-15-8 | 95 |
| 3 | Cyclopenta[c]thiapyran | 134 | C8H6S | 000270-63-3 | 94 |
| 4 | 5H-Pyrrolo(3,2-d)pyrimidin-4-amine | 134 | C6H6N4 | 002227-98-7 | 59 |
| 5 | 3-Deazaadenine | 134 | C6H6N4 | 006811-77-4 | 59 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023069.D
Acq On : 13 Aug 2025 14:55
Operator : SY/MD
Sample : Q2819-07
Misc : 6.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

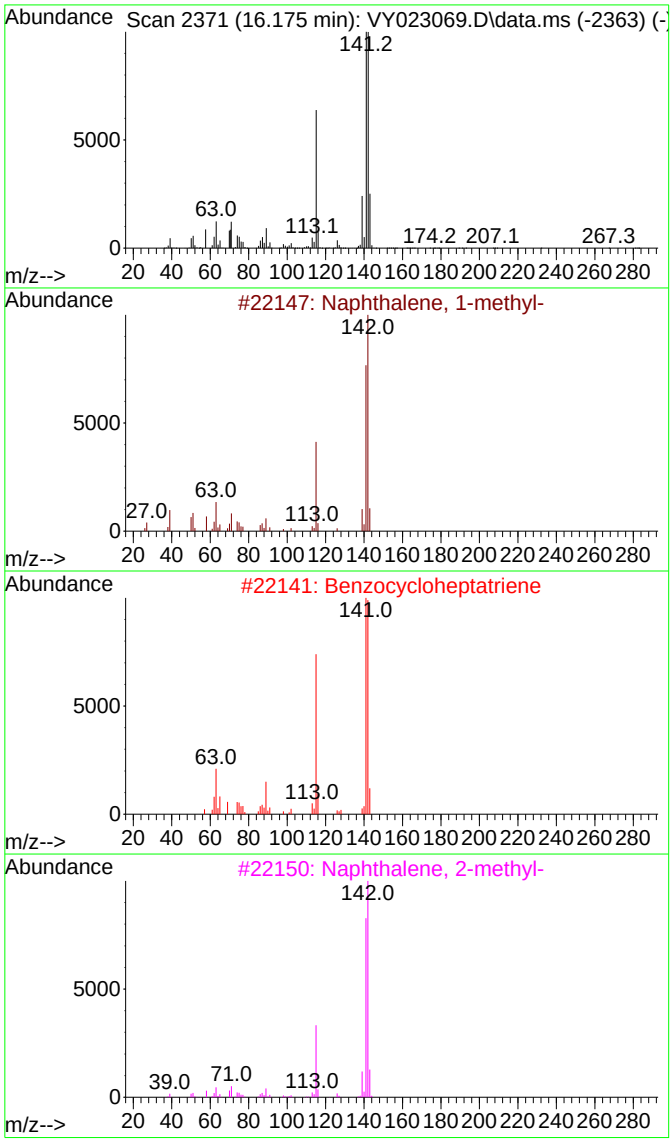
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

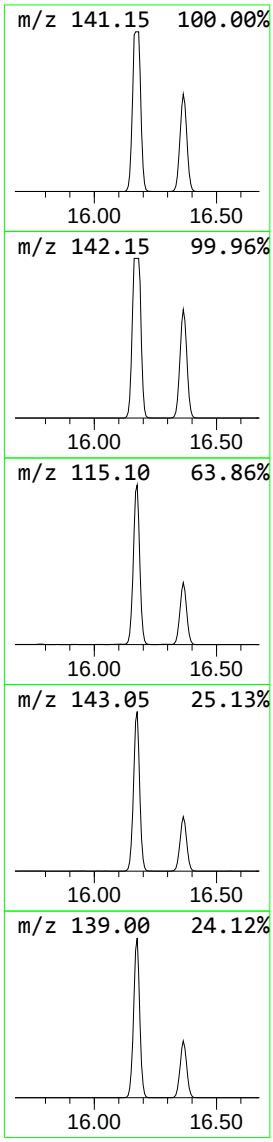
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 9 Naphthalene, 1-methyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.175 | 2284.33 ug/l | 88287500 | 1,4-Dichlorobenzene-d4 | 13.340 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 93 |
| 2 | Benzocycloheptatriene | 142 | C11H10 | 000264-09-5 | 91 |
| 3 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 90 |
| 4 | Bicyclo[4.4.1]undeca-1,3,5,7,9-p... | 142 | C11H10 | 002443-46-1 | 90 |
| 5 | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10 | 004453-90-1 | 87 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023069.D
Acq On : 13 Aug 2025 14:55
Operator : SY/MD
Sample : Q2819-07
Misc : 6.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

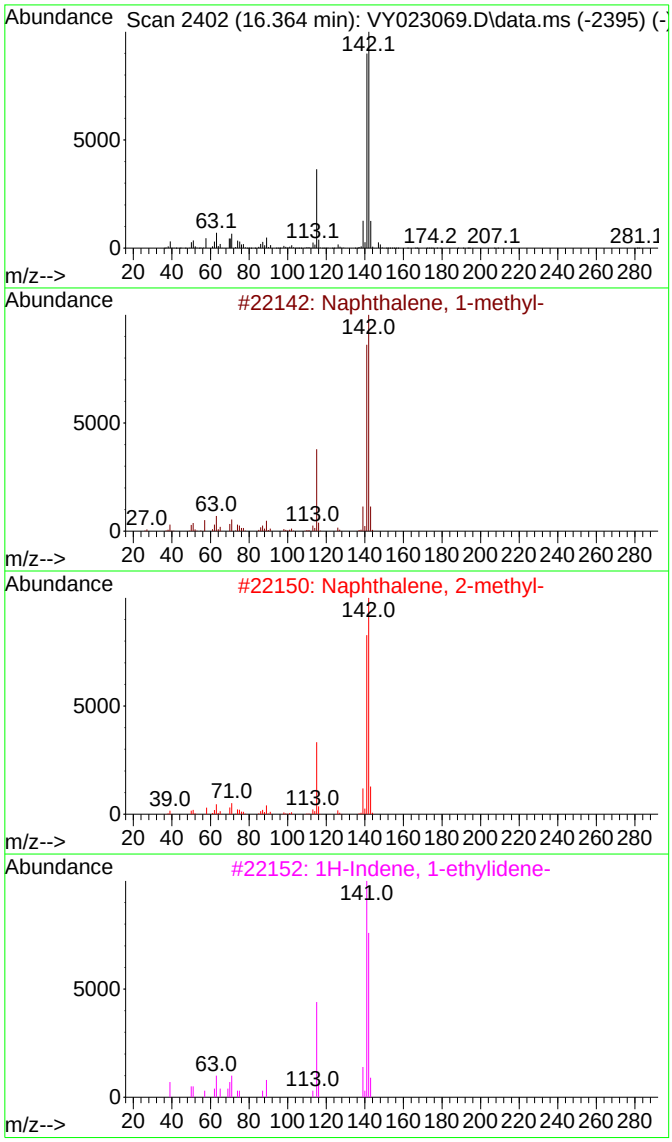
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

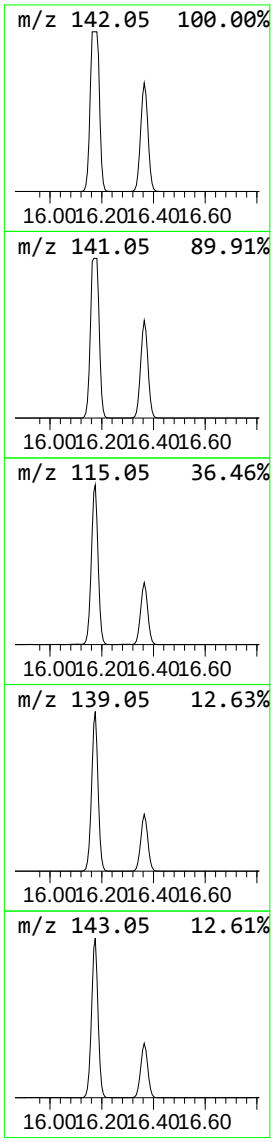
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 10 1H-Indene, 1-ethylidene- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.364 | 1013.33 ug/l | 39164500 | 1,4-Dichlorobenzene-d4 | 13.340 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 96 |
| 2 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 96 |
| 3 | 1H-Indene, 1-ethylidene- | 142 | C11H10 | 002471-83-2 | 94 |
| 4 | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10 | 004453-90-1 | 91 |
| 5 | Bicyclo[4.4.1]undeca-1,3,5,7,9-p... | 142 | C11H10 | 002443-46-1 | 91 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023069.D
Acq On : 13 Aug 2025 14:55
Operator : SY/MD
Sample : Q2819-07
Misc : 6.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Benzene, 1-ethy... | 12.651 | 209.1 | ug/l | 8082460 | 4 | 13.340 | 1932460 | 50.0 |
| Benzene, 1-ethe... | 13.541 | 3325.5 | ug/l | 128527000 | 4 | 13.340 | 1932460 | 50.0 |
| Benzene, 1-ethe... | 13.993 | 128.3 | ug/l | 4959360 | 4 | 13.340 | 1932460 | 50.0 |
| 2-Propenal, 3-p... | 14.273 | 365.8 | ug/l | 14137500 | 4 | 13.340 | 1932460 | 50.0 |
| Benzene, 2-ethe... | 14.474 | 187.3 | ug/l | 7238580 | 4 | 13.340 | 1932460 | 50.0 |
| Benzene, 1-ethe... | 14.596 | 300.9 | ug/l | 11629600 | 4 | 13.340 | 1932460 | 50.0 |
| Benzo[c]thiophene | 15.236 | 447.2 | ug/l | 17285500 | 4 | 13.340 | 1932460 | 50.0 |
| Naphthalene, 1-... | 16.175 | 2284.3 | ug/l | 88287500 | 4 | 13.340 | 1932460 | 50.0 |
| 1H-Indene, 1-et... | 16.364 | 1013.3 | ug/l | 39164500 | 4 | 13.340 | 1932460 | 50.0 |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 11M-E | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-08 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 71.8 |
| Sample Wt/Vol: | 5.47 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023070.D | 1 | 08/13/25 15:19 | VY081325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 5.10 | U | 1.50 | 5.10 | 6.40 | ug/Kg |
| 74-87-3 | Chloromethane | 3.20 | U | 1.50 | 3.20 | 6.40 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 3.20 | U | 1.00 | 3.20 | 6.40 | ug/Kg |
| 74-83-9 | Bromomethane | 5.10 | U | 1.40 | 5.10 | 6.40 | ug/Kg |
| 75-00-3 | Chloroethane | 3.20 | U | 1.60 | 3.20 | 6.40 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 5.10 | U | 1.50 | 5.10 | 6.40 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 3.20 | U | 1.30 | 3.20 | 6.40 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 3.20 | U | 1.30 | 3.20 | 6.40 | ug/Kg |
| 67-64-1 | Acetone | 20.7 | J | 6.00 | 25.5 | 31.8 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 5.10 | U | 1.30 | 5.10 | 6.40 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 3.20 | U | 0.93 | 3.20 | 6.40 | ug/Kg |
| 79-20-9 | Methyl Acetate | 5.10 | U | 2.00 | 5.10 | 6.40 | ug/Kg |
| 75-09-2 | Methylene Chloride | 10.2 | U | 4.50 | 10.2 | 12.7 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 3.20 | U | 1.10 | 3.20 | 6.40 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 3.20 | U | 1.00 | 3.20 | 6.40 | ug/Kg |
| 110-82-7 | Cyclohexane | 3.20 | U | 1.00 | 3.20 | 6.40 | ug/Kg |
| 78-93-3 | 2-Butanone | 25.5 | U | 8.30 | 25.5 | 31.8 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 3.20 | U | 1.20 | 3.20 | 6.40 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 3.20 | U | 0.95 | 3.20 | 6.40 | ug/Kg |
| 74-97-5 | Bromochloromethane | 5.10 | U | 1.50 | 5.10 | 6.40 | ug/Kg |
| 67-66-3 | Chloroform | 5.10 | U | 1.10 | 5.10 | 6.40 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 3.20 | U | 1.20 | 3.20 | 6.40 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 3.20 | U | 1.20 | 3.20 | 6.40 | ug/Kg |
| 71-43-2 | Benzene | 3.20 | U | 1.00 | 3.20 | 6.40 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 3.20 | U | 1.00 | 3.20 | 6.40 | ug/Kg |
| 79-01-6 | Trichloroethene | 3.20 | U | 1.00 | 3.20 | 6.40 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 3.20 | U | 1.20 | 3.20 | 6.40 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 3.20 | U | 0.99 | 3.20 | 6.40 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 15.9 | U | 4.60 | 15.9 | 31.8 | ug/Kg |
| 108-88-3 | Toluene | 3.20 | U | 0.99 | 3.20 | 6.40 | ug/Kg |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 11M-E | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-08 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 71.8 |
| Sample Wt/Vol: | 5.47 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023070.D | 1 | 08/13/25 15:19 | VY081325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 3.20 | U | 0.83 | 3.20 | 6.40 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 3.20 | U | 0.79 | 3.20 | 6.40 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 3.20 | U | 1.20 | 3.20 | 6.40 | ug/Kg |
| 591-78-6 | 2-Hexanone | 15.9 | U | 4.70 | 15.9 | 31.8 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 3.20 | U | 1.10 | 3.20 | 6.40 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 3.20 | U | 1.10 | 3.20 | 6.40 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 3.20 | U | 1.30 | 3.20 | 6.40 | ug/Kg |
| 108-90-7 | Chlorobenzene | 3.20 | U | 1.20 | 3.20 | 6.40 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 3.20 | U | 0.85 | 3.20 | 6.40 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 6.40 | U | 1.60 | 6.40 | 12.7 | ug/Kg |
| 95-47-6 | o-Xylene | 3.20 | U | 1.00 | 3.20 | 6.40 | ug/Kg |
| 100-42-5 | Styrene | 3.20 | U | 0.90 | 3.20 | 6.40 | ug/Kg |
| 75-25-2 | Bromoform | 3.20 | U | 1.10 | 3.20 | 6.40 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 3.20 | U | 0.99 | 3.20 | 6.40 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 3.20 | U | 1.50 | 3.20 | 6.40 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 3.20 | U | 2.20 | 3.20 | 6.40 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 3.20 | U | 2.00 | 3.20 | 6.40 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 3.20 | U | 1.80 | 3.20 | 6.40 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 5.10 | U | 2.30 | 5.10 | 6.40 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 5.10 | U | 3.80 | 5.10 | 6.40 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 5.10 | U | 4.00 | 5.10 | 6.40 | ug/Kg |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 62.9 | | 71 - 136 | | 126% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 53.6 | | 78 - 119 | | 107% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 51.3 | | 85 - 116 | | 103% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 44.9 | | 79 - 119 | | 90% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 520000 | 7.707 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 1040000 | 8.609 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 905000 | 11.407 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 339000 | 13.34 | | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | | |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 11M-E | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-08 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 71.8 |
| Sample Wt/Vol: | 5.47 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023070.D | 1 | 08/13/25 15:19 | VY081325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| 000581-42-0 | Naphthalene, 2,6-dimethyl- | 24.9 | J | | | 11.9 | ug/Kg |
| 000575-43-9 | Naphthalene, 1,6-dimethyl- | 100 | J | | | 12.6 | ug/Kg |
| 000575-37-1 | Naphthalene, 1,7-dimethyl- | 54.6 | J | | | 12.7 | ug/Kg |
| 000644-08-6 | 1,1-Biphenyl, 4-methyl- | 14.8 | J | | | 14.1 | ug/Kg |
| 000090-12-0 | Naphthalene, 1-methyl- | 22.3 | J | | | 16.4 | ug/Kg |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023070.D
Acq On : 13 Aug 2025 15:19
Operator : SY/MD
Sample : Q2819-08
Misc : 5.47g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-E

Quant Time: Aug 14 01:25:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

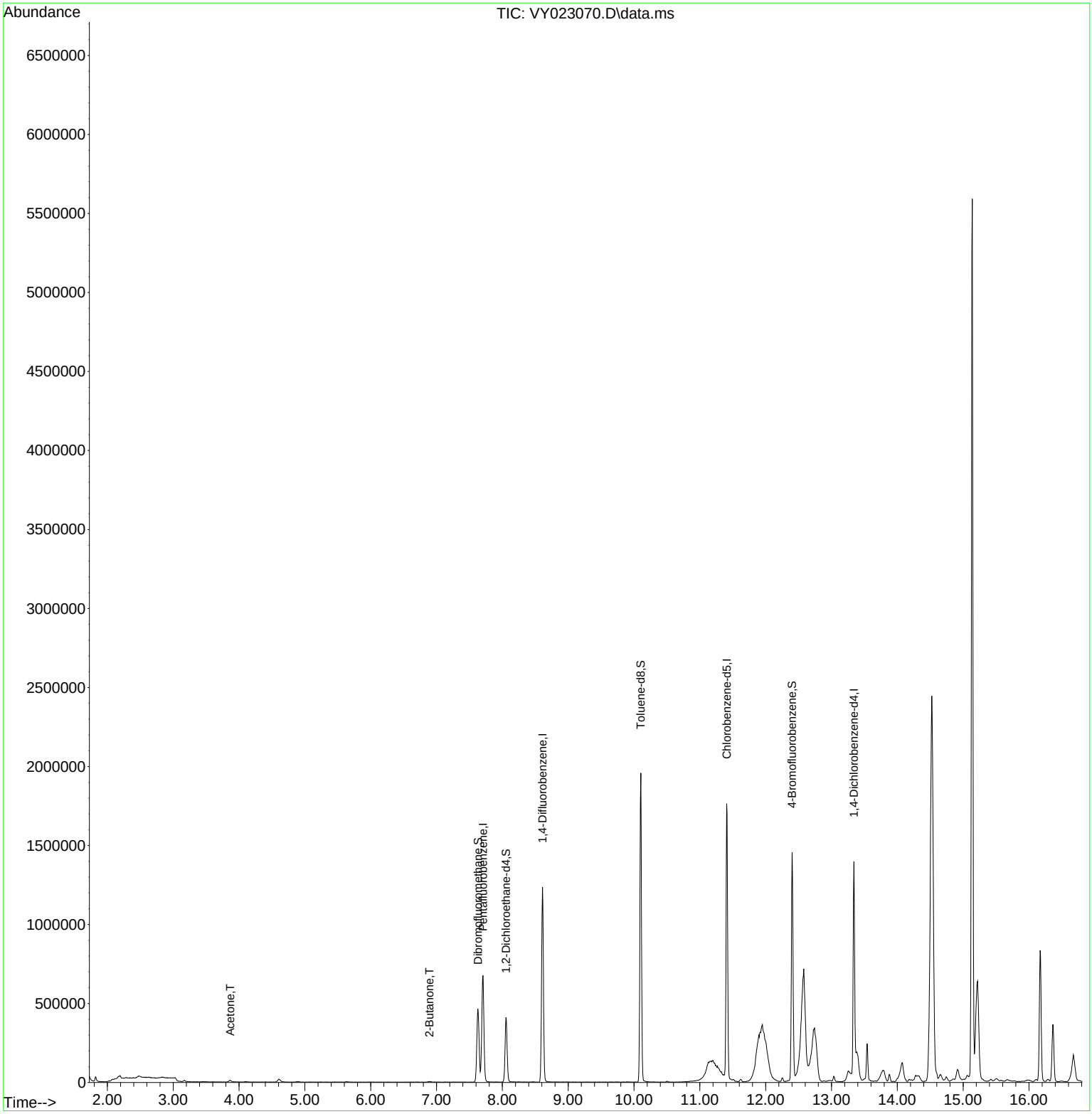
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 520297 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.609 | 114 | 1036801 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.407 | 117 | 905464 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 338962 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.054 | 65 | 311975 | 62.914 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 125.820% | | | |
| 35) Dibromofluoromethane | 7.628 | 113 | 332447 | 53.587 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 107.180% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 1243938 | 51.326 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 102.660% | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 349682 | 44.864 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 89.720% | | | |
| Target Compounds | | | | | | Qvalue |
| 16) Acetone | 3.866 | 43 | 17431 | 16.226 | ug/l | 97 |
| 25) 2-Butanone | 6.890 | 43 | 5327 | 3.646 | ug/l # | 88 |

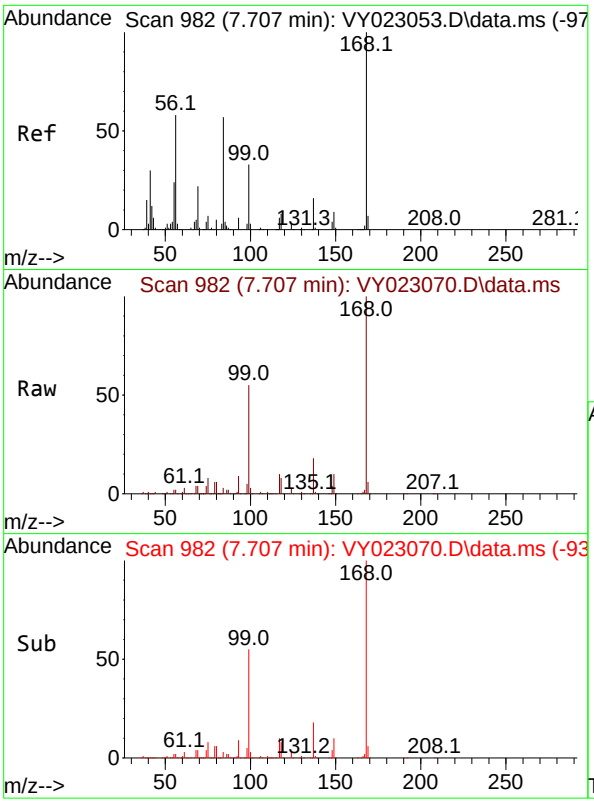
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023070.D
Acq On : 13 Aug 2025 15:19
Operator : SY/MD
Sample : Q2819-08
Misc : 5.47g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-E

Quant Time: Aug 14 01:25:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



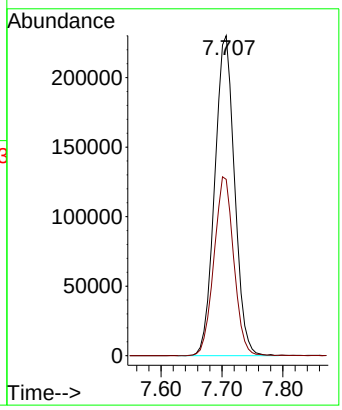


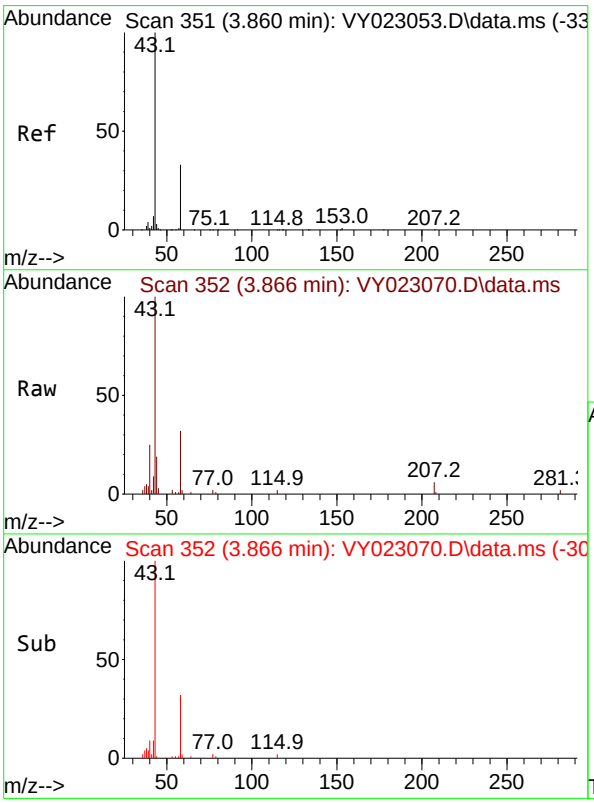

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023070.D
Acq: 13 Aug 2025 15:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-E

Tgt Ion:168 Resp: 520297

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 55.1 | 42.8 | 64.2 |

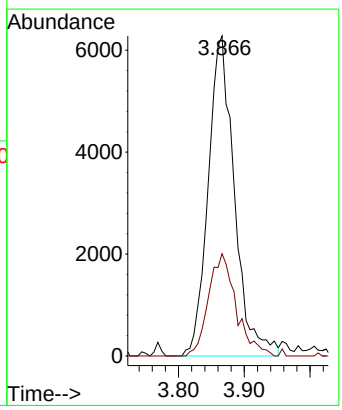


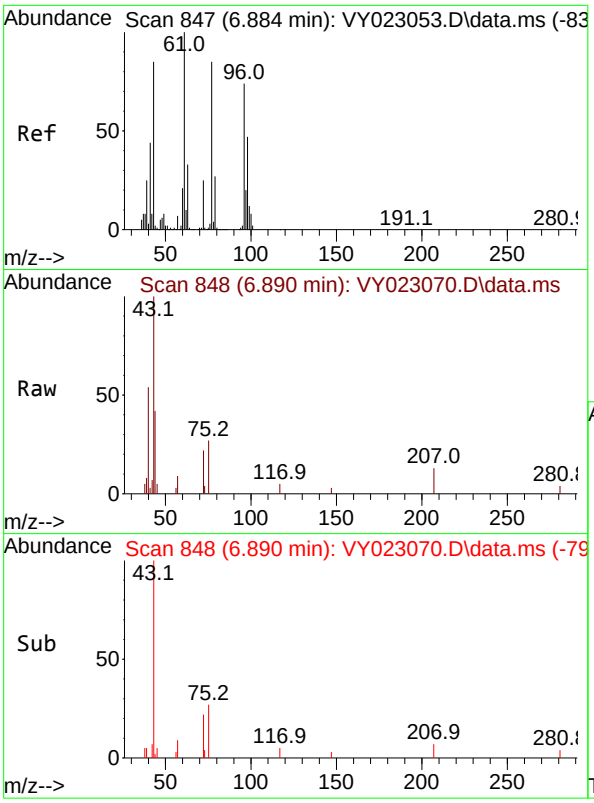




#16
Acetone
Concen: 16.226 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023070.D
Acq: 13 Aug 2025 15:19

Tgt Ion: 43 Resp: 17431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.0 | 27.1 | 40.7 |



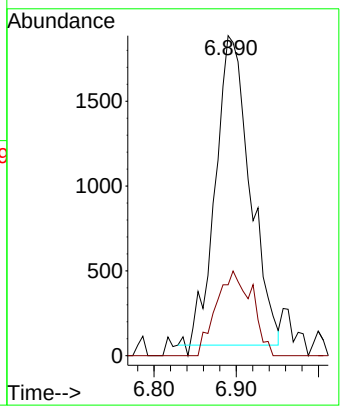


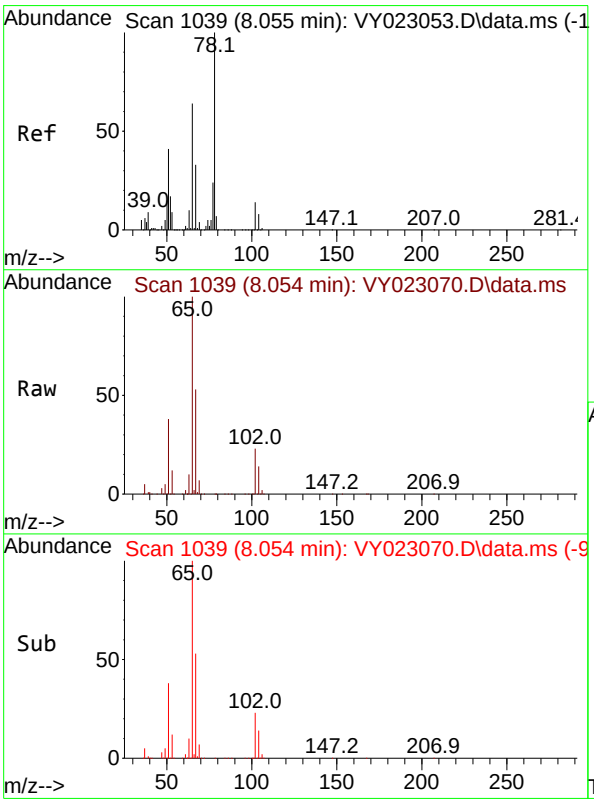

#25
2-Butanone
Concen: 3.646 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023070.D
Acq: 13 Aug 2025 15:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-E

Tgt Ion: 43 Resp: 5327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.9 | 23.5 | 35.3# |

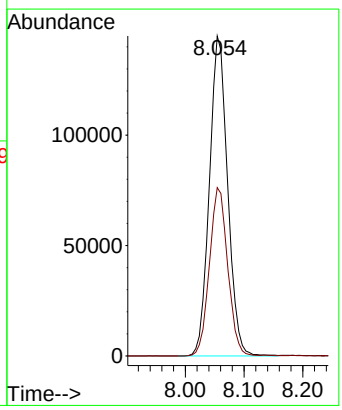


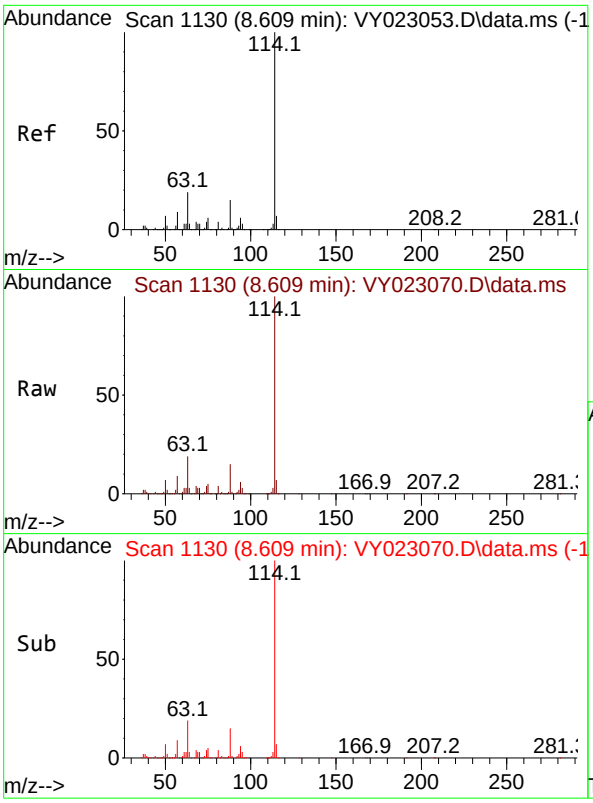




#33
1,2-Dichloroethane-d4
Concen: 62.914 ug/l
RT: 8.054 min Scan# 1039
Delta R.T. -0.000 min
Lab File: VY023070.D
Acq: 13 Aug 2025 15:19

Tgt Ion: 65 Resp: 311975

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.7 | 0.0 | 106.8 |



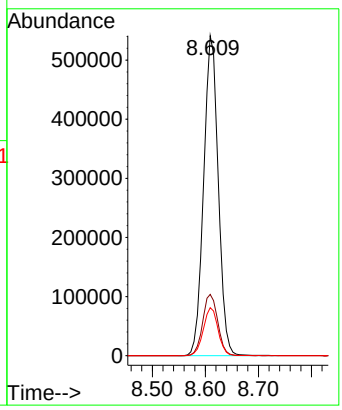


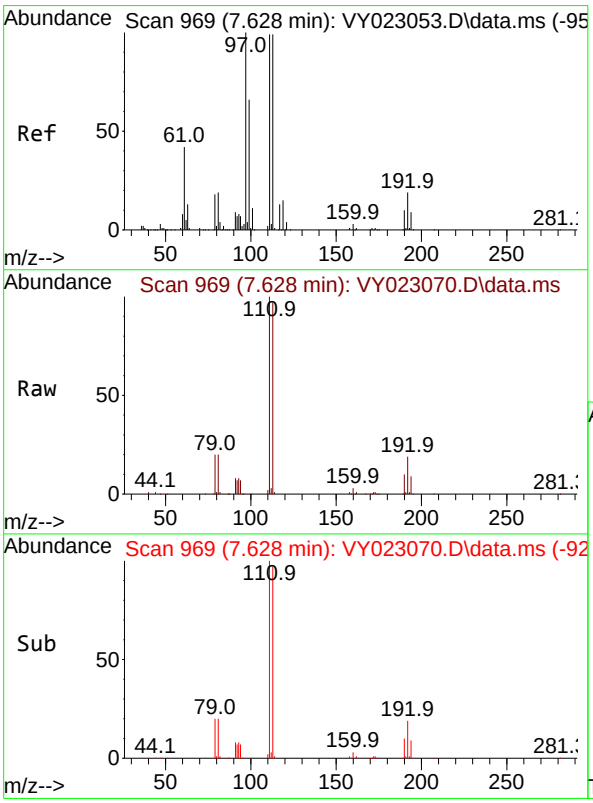

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023070.D
Acq: 13 Aug 2025 15:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-E

Tgt Ion:114 Resp: 1036801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.1 | 0.0 | 38.4 |
| 88 | 15.0 | 0.0 | 30.0 |

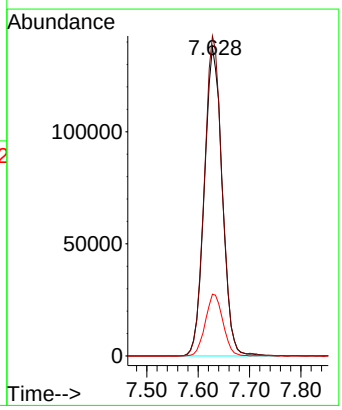


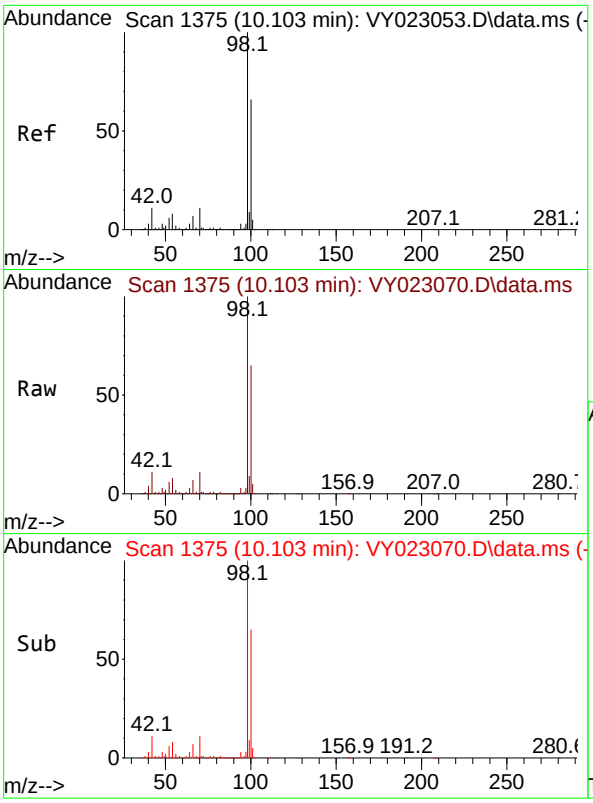




#35
Dibromofluoromethane
Concen: 53.587 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.000 min
Lab File: VY023070.D
Acq: 13 Aug 2025 15:19

Tgt Ion:113 Resp: 332447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.8 | 81.1 | 121.7 |
| 192 | 19.8 | 16.2 | 24.4 |



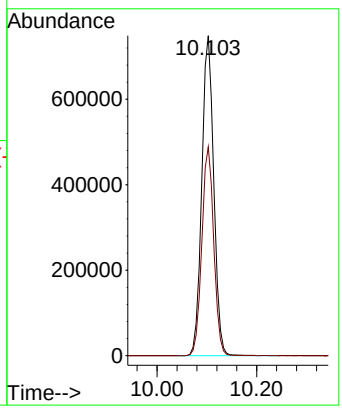


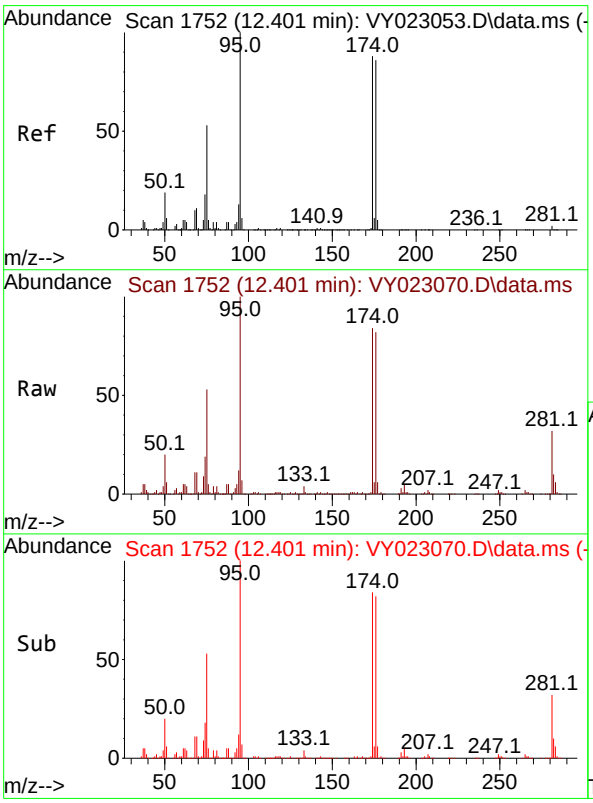

#50
Toluene-d8
Concen: 51.326 ug/l
RT: 10.103 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023070.D
Acq: 13 Aug 2025 15:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-E

Tgt Ion: 98 Resp: 1243938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.0 | 52.3 | 78.5 |

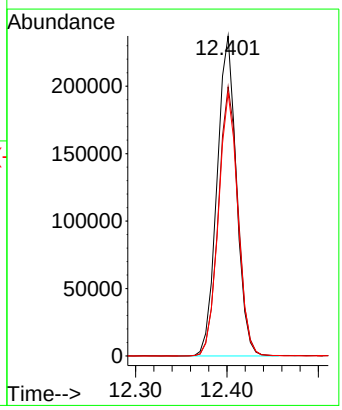


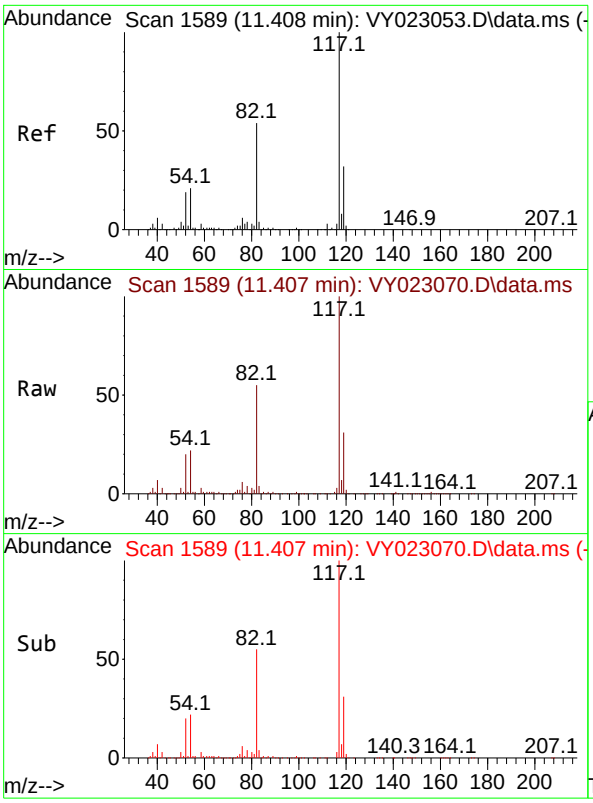




#62
4-Bromofluorobenzene
Concen: 44.864 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023070.D
Acq: 13 Aug 2025 15:19

Tgt Ion: 95 Resp: 349682

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 85.7 | 0.0 | 171.6 |
| 176 | 82.9 | 0.0 | 167.6 |



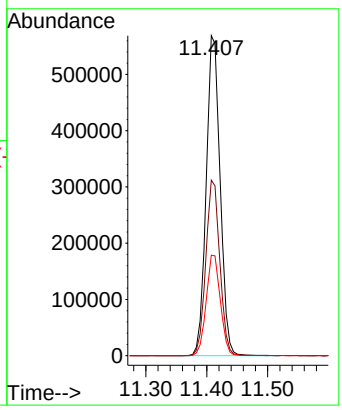


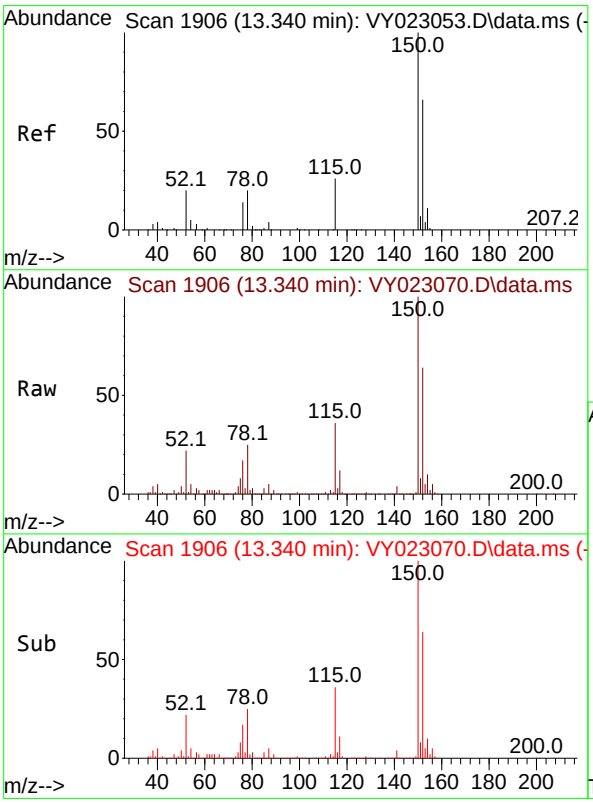

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.407 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023070.D
Acq: 13 Aug 2025 15:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-E

Tgt Ion:117 Resp: 905464

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.8 | 43.4 | 65.0 |
| 119 | 31.4 | 25.6 | 38.4 |

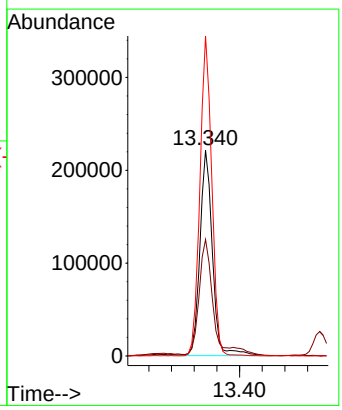



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. -0.000 min
Lab File: VY023070.D
Acq: 13 Aug 2025 15:19

Tgt Ion:152 Resp: 338962

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.7 | 28.2 | 84.6 |
| 150 | 147.7 | 0.0 | 348.0 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023070.D
Acq On : 13 Aug 2025 15:19
Operator : SY/MD
Sample : Q2819-08
Misc : 5.47g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-E

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Title : SW846 8260

Signal : TIC: VY023070.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 7.628 | 959 | 969 | 975 | rBV | 463794 | 1107748 | 12.48% | 2.371% |
| 2 | 7.707 | 975 | 982 | 999 | rVB | 672845 | 1548090 | 17.44% | 3.314% |
| 3 | 8.054 | 1030 | 1039 | 1052 | rBV | 408662 | 886812 | 9.99% | 1.898% |
| 4 | 8.609 | 1121 | 1130 | 1144 | rBV | 1234044 | 2377643 | 26.78% | 5.089% |
| 5 | 10.103 | 1367 | 1375 | 1398 | rBV | 1955637 | 3286410 | 37.02% | 7.034% |
| 6 | 11.133 | 1524 | 1544 | 1545 | rBV2 | 109929 | 367505 | 4.14% | 0.787% |
| 7 | 11.407 | 1583 | 1589 | 1601 | rVB | 1748271 | 2853332 | 32.14% | 6.107% |
| 8 | 11.895 | 1634 | 1669 | 1670 | rBV2 | 294246 | 1116340 | 12.57% | 2.389% |
| 9 | 12.401 | 1738 | 1752 | 1760 | rBV2 | 1447674 | 2597156 | 29.25% | 5.559% |
| 10 | 12.578 | 1760 | 1781 | 1792 | rVV | 711884 | 3401556 | 38.31% | 7.281% |
| 11 | 12.743 | 1796 | 1808 | 1826 | rVB2 | 338343 | 1798113 | 20.25% | 3.849% |
| 12 | 13.255 | 1882 | 1892 | 1900 | rBV6 | 63530 | 259219 | 2.92% | 0.555% |
| 13 | 13.340 | 1900 | 1906 | 1911 | rBV | 1342708 | 2094650 | 23.59% | 4.483% |
| 14 | 13.541 | 1933 | 1939 | 1949 | rVB | 236205 | 380661 | 4.29% | 0.815% |
| 15 | 13.791 | 1963 | 1980 | 1990 | rBV3 | 70761 | 329864 | 3.72% | 0.706% |
| 16 | 14.078 | 2007 | 2027 | 2039 | rBV2 | 120343 | 487779 | 5.49% | 1.044% |
| 17 | 14.523 | 2080 | 2100 | 2116 | rBV | 2439773 | 7729947 | 87.07% | 16.545% |
| 18 | 14.651 | 2116 | 2121 | 2130 | rVV3 | 42707 | 132840 | 1.50% | 0.284% |
| 19 | 14.913 | 2157 | 2164 | 2176 | rVB2 | 65686 | 187666 | 2.11% | 0.402% |
| 20 | 15.138 | 2193 | 2201 | 2206 | rVV | 5572980 | 8878240 | 100.00% | 19.003% |
| 21 | 15.218 | 2206 | 2214 | 2226 | rVB2 | 619333 | 1989573 | 22.41% | 4.258% |
| 22 | 16.169 | 2363 | 2370 | 2382 | rVB | 829339 | 1564655 | 17.62% | 3.349% |
| 23 | 16.364 | 2394 | 2402 | 2413 | rVB | 361987 | 733271 | 8.26% | 1.569% |
| 24 | 16.675 | 2436 | 2453 | 2468 | rBV3 | 169286 | 611277 | 6.89% | 1.308% |

Sum of corrected areas: 46720347

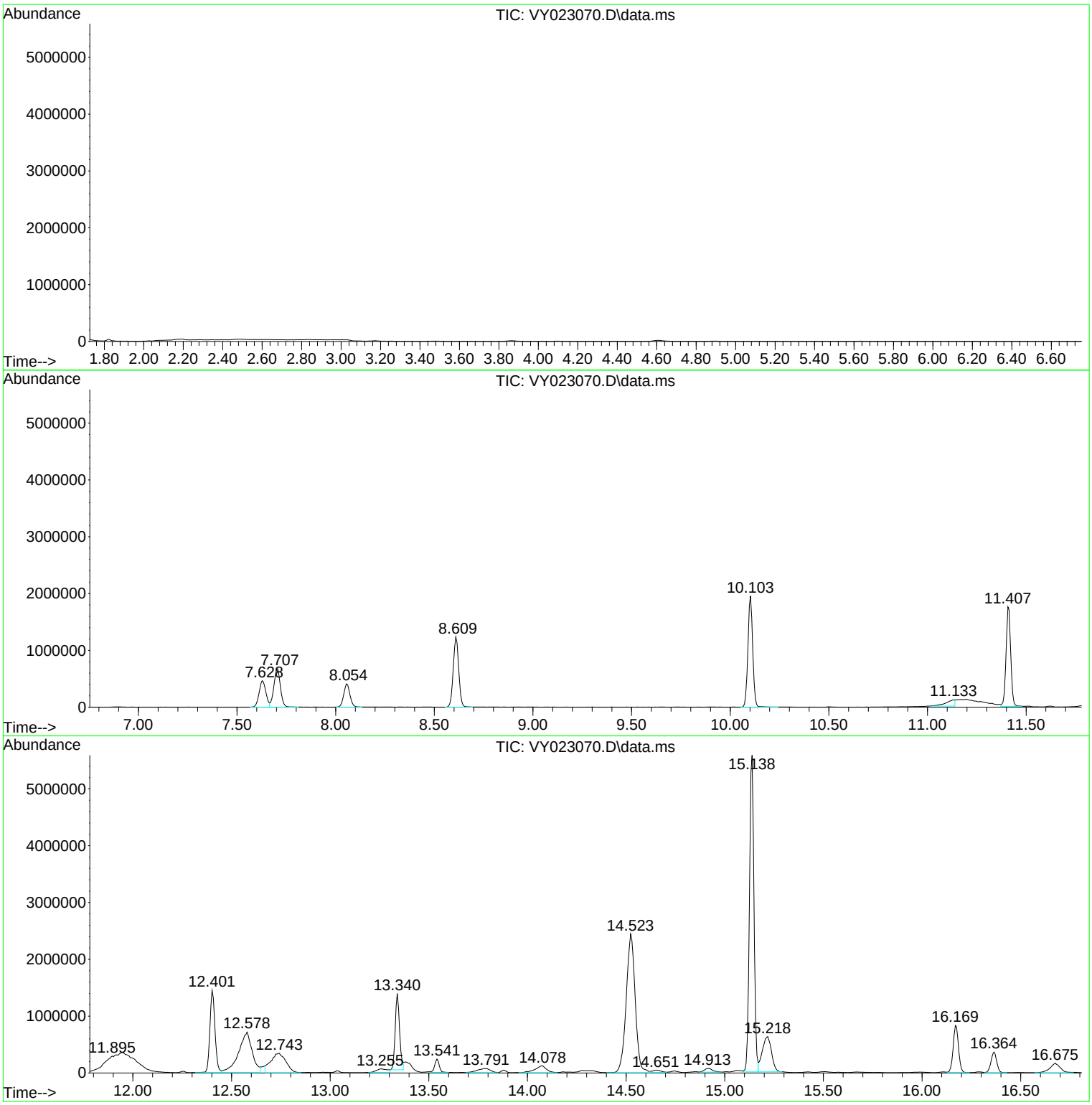
Sample Results: **VY023070.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023070.D
Acq On : 13 Aug 2025 15:19
Operator : SY/MD
Sample : Q2819-08
Misc : 5.47g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023070.D
Acq On    : 13 Aug 2025  15:19
Operator  : SY/MD
Sample    : Q2819-08
Misc      : 5.47g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial  : 13   Sample Multiplier: 1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title  : SW846 8260

TIC Library   : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P
```

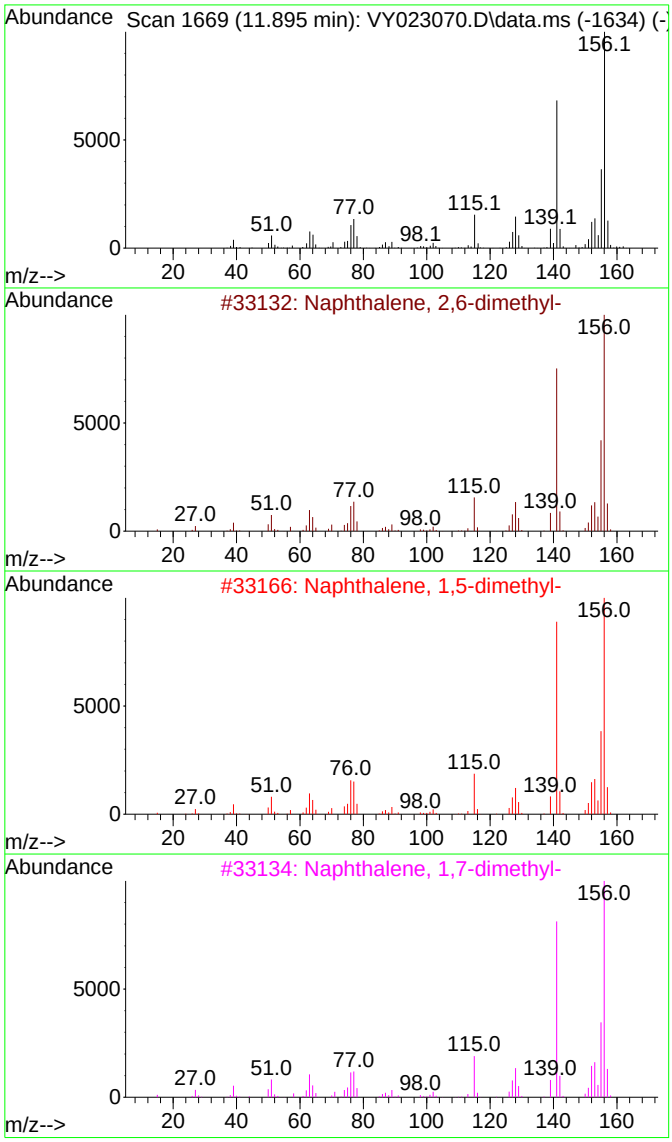
**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-E

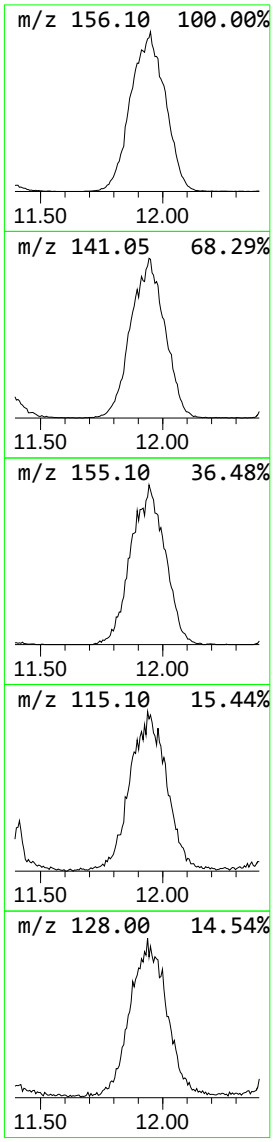
**********

Peak Number 1 Naphthalene, 2,6-dimethyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.895 | 19.56 ug/l | 1116340 | Chlorobenzene-d5 | 11.407 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 98 |
| 2 | Naphthalene, 1,5-dimethyl- | 156 | C12H12 | 000571-61-9 | 98 |
| 3 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 98 |
| 4 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 97 |
| 5 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 97 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023070.D
Acq On : 13 Aug 2025 15:19
Operator : SY/MD
Sample : Q2819-08
Misc : 5.47g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-E

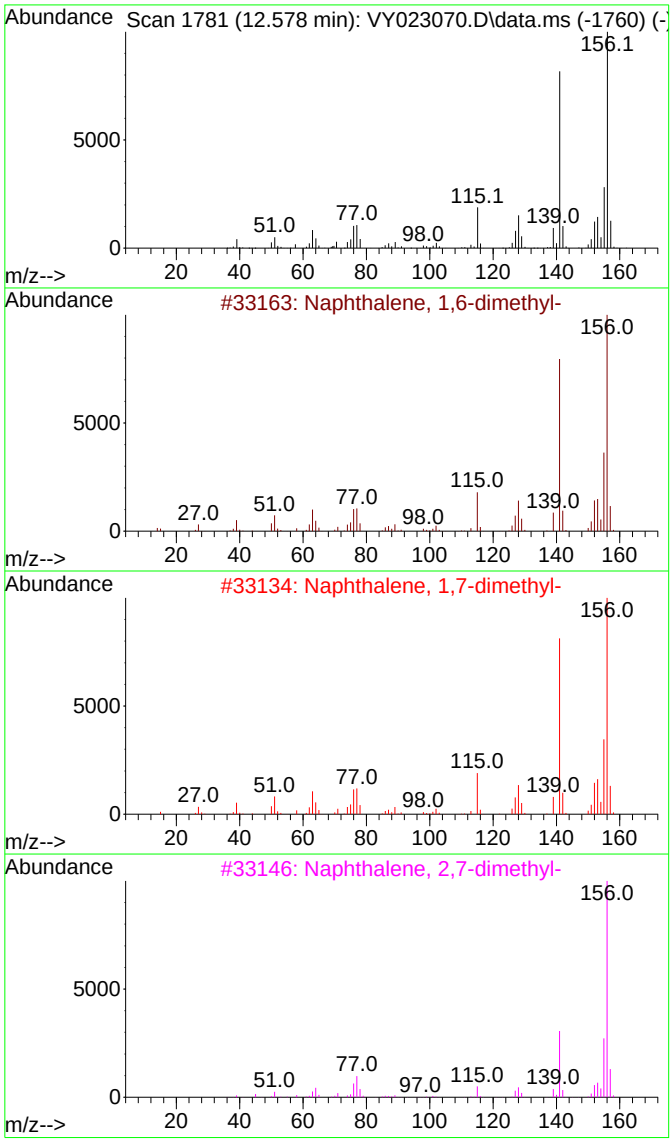
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

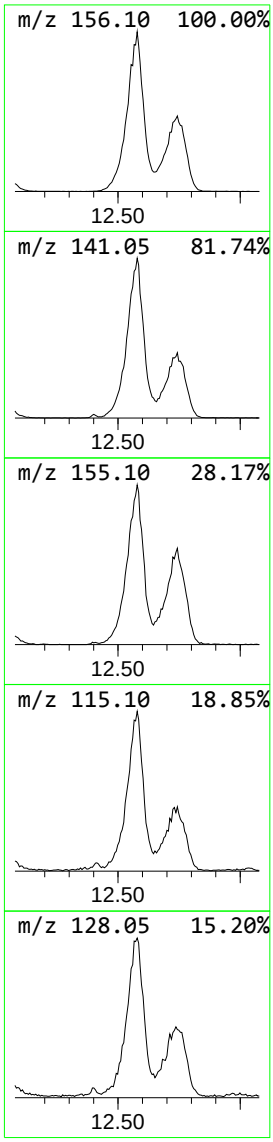
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 2 Naphthalene, 1,6-dimethyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.578 | 81.20 ug/l | 3401560 | 1,4-Dichlorobenzene-d4 | 13.340 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 98 |
| 2 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 98 |
| 3 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 97 |
| 4 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 97 |
| 5 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 97 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023070.D
Acq On : 13 Aug 2025 15:19
Operator : SY/MD
Sample : Q2819-08
Misc : 5.47g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

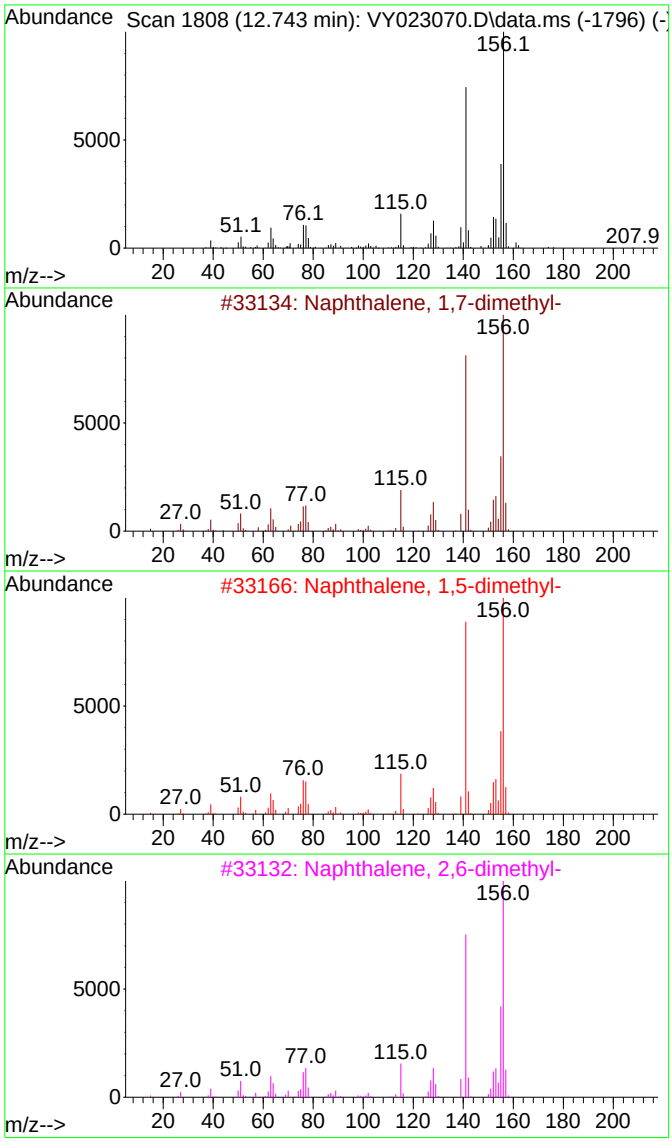
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

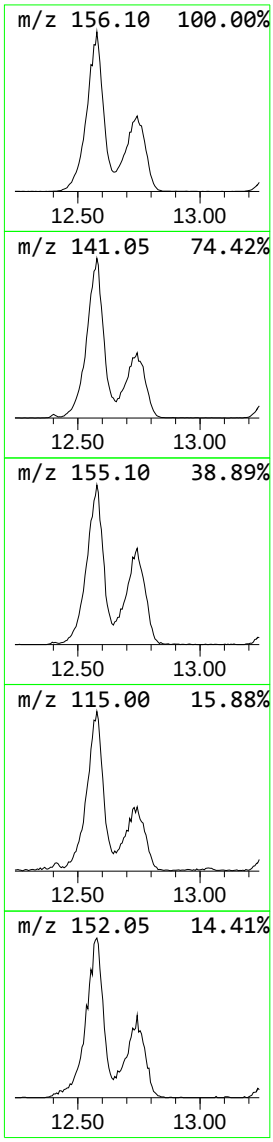
**********

Peak Number 3 Naphthalene, 1,7-dimethyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.743 | 42.92 ug/l | 1798110 | 1,4-Dichlorobenzene-d4 | 13.340 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 98 |
| 2 | Naphthalene, 1,5-dimethyl- | 156 | C12H12 | 000571-61-9 | 98 |
| 3 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 98 |
| 4 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 98 |
| 5 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 96 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023070.D
Acq On : 13 Aug 2025 15:19
Operator : SY/MD
Sample : Q2819-08
Misc : 5.47g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-E

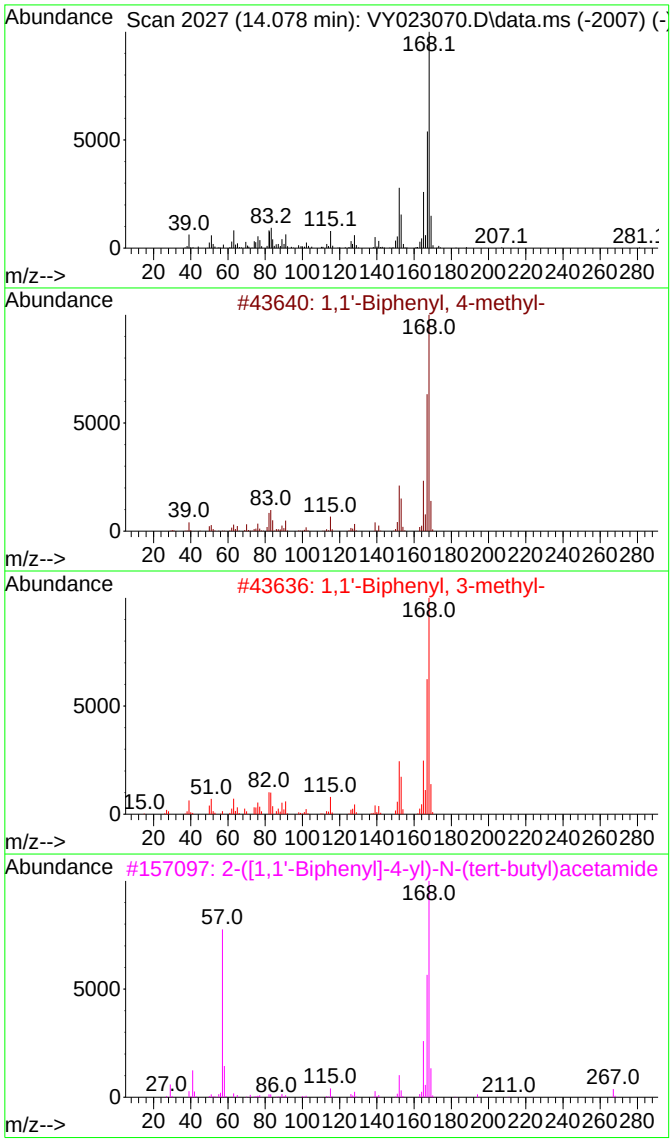
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

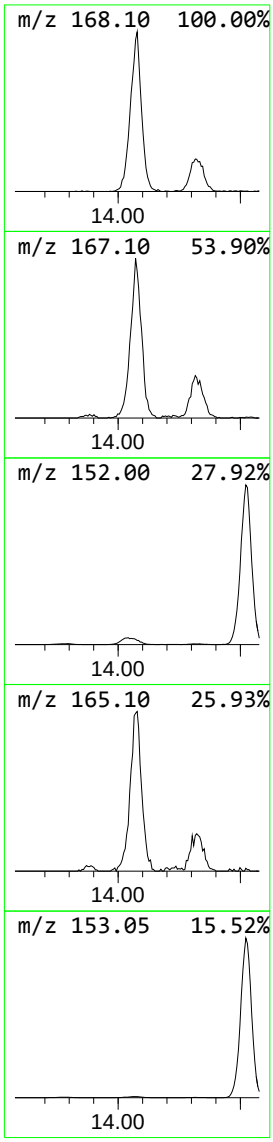
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 4 1,1'-Biphenyl, 4-methyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.078 | 11.64 ug/l | 487779 | 1,4-Dichlorobenzene-d4 | 13.340 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 4-methyl- | 168 | C13H12 | 000644-08-6 | 94 |
| 2 | 1,1'-Biphenyl, 3-methyl- | 168 | C13H12 | 000643-93-6 | 91 |
| 3 | 2-([1,1'-Biphenyl]-4-yl)-N-(tert... | 267 | C18H21NO | 1001477-17-3 | 72 |
| 4 | 1,1'-Biphenyl, 2-methyl- | 168 | C13H12 | 000643-58-3 | 64 |
| 5 | 2,4-Dimethoxy-5-pyrimidine carbo... | 168 | C7H8N2O3 | 052606-02-7 | 58 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023070.D
Acq On : 13 Aug 2025 15:19
Operator : SY/MD
Sample : Q2819-08
Misc : 5.47g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-E

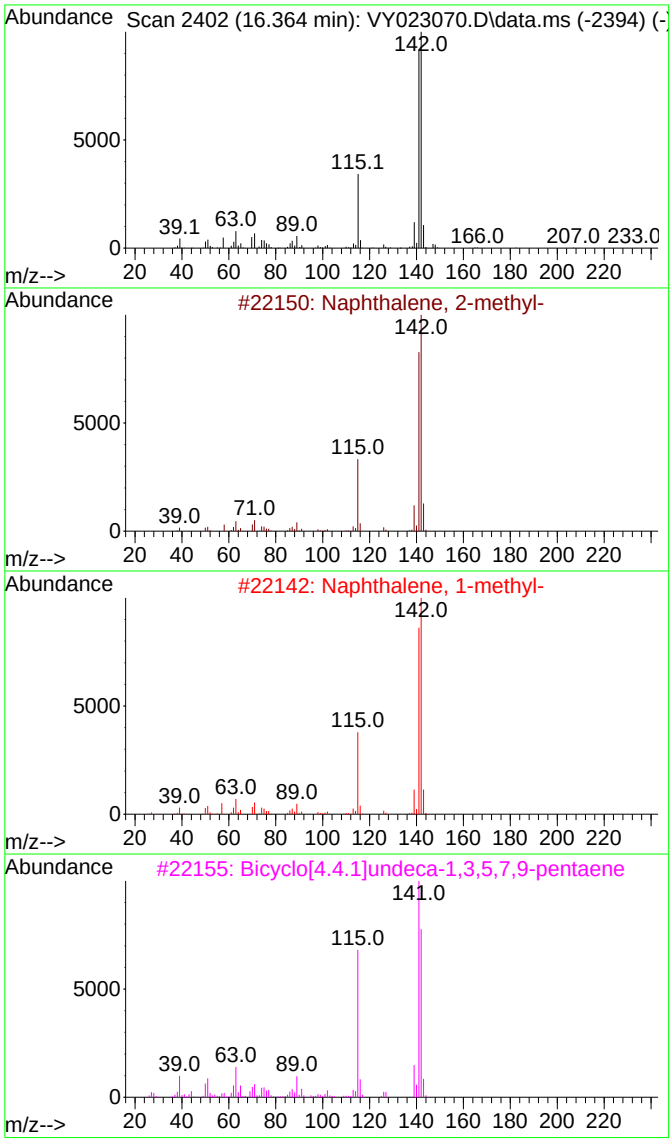
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

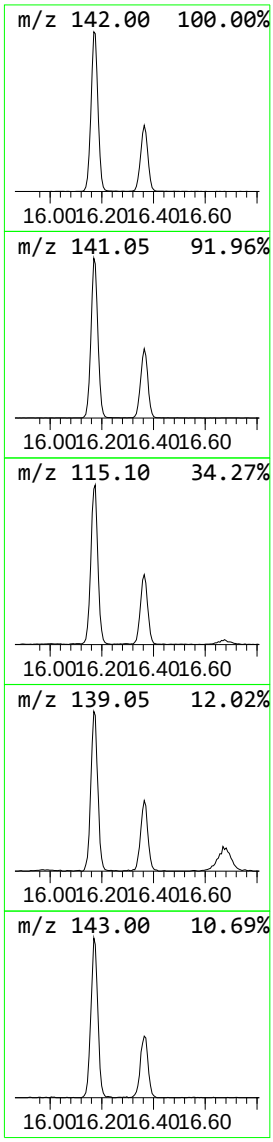
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 9 Naphthalene, 1-methyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.364 | 17.50 ug/l | 733271 | 1,4-Dichlorobenzene-d4 | 13.340 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 97 |
| 2 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 96 |
| 3 | Bicyclo[4.4.1]undeca-1,3,5,7,9-p... | 142 | C11H10 | 002443-46-1 | 91 |
| 4 | Benzocycloheptatriene | 142 | C11H10 | 000264-09-5 | 91 |
| 5 | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10 | 004453-90-1 | 91 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023070.D
Acq On : 13 Aug 2025 15:19
Operator : SY/MD
Sample : Q2819-08
Misc : 5.47g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Naphthalene, 2,... | 11.895 | 19.6 | ug/l | 1116340 | 3 | 11.407 | 2853330 | 50.0 |
| Naphthalene, 1,... | 12.578 | 81.2 | ug/l | 3401560 | 4 | 13.340 | 2094650 | 50.0 |
| Naphthalene, 1,... | 12.743 | 42.9 | ug/l | 1798110 | 4 | 13.340 | 2094650 | 50.0 |
| 1,1'-Biphenyl, ... | 14.078 | 11.6 | ug/l | 487779 | 4 | 13.340 | 2094650 | 50.0 |
| Naphthalene, 1-... | 16.364 | 17.5 | ug/l | 733271 | 4 | 13.340 | 2094650 | 50.0 |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 84SB-E | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-09 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 37.6 |
| Sample Wt/Vol: | 4.41 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023071.D | 1 | 08/13/25 15:43 | VY081325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 12.1 | U | 3.40 | 12.1 | 15.1 | ug/Kg |
| 74-87-3 | Chloromethane | 7.50 | U | 3.40 | 7.50 | 15.1 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 7.50 | U | 2.40 | 7.50 | 15.1 | ug/Kg |
| 74-83-9 | Bromomethane | 12.1 | U | 3.20 | 12.1 | 15.1 | ug/Kg |
| 75-00-3 | Chloroethane | 7.50 | U | 3.80 | 7.50 | 15.1 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 12.1 | U | 3.60 | 12.1 | 15.1 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 7.50 | U | 3.20 | 7.50 | 15.1 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 7.50 | U | 3.00 | 7.50 | 15.1 | ug/Kg |
| 67-64-1 | Acetone | 60.3 | U | 14.3 | 60.3 | 75.4 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 3.20 | J | 3.20 | 12.1 | 15.1 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 7.50 | U | 2.20 | 7.50 | 15.1 | ug/Kg |
| 79-20-9 | Methyl Acetate | 12.1 | U | 4.60 | 12.1 | 15.1 | ug/Kg |
| 75-09-2 | Methylene Chloride | 24.1 | U | 10.6 | 24.1 | 30.2 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 7.50 | U | 2.60 | 7.50 | 15.1 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 7.50 | U | 2.40 | 7.50 | 15.1 | ug/Kg |
| 110-82-7 | Cyclohexane | 7.50 | U | 2.40 | 7.50 | 15.1 | ug/Kg |
| 78-93-3 | 2-Butanone | 60.3 | U | 19.7 | 60.3 | 75.4 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 7.50 | U | 2.90 | 7.50 | 15.1 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 7.50 | U | 2.30 | 7.50 | 15.1 | ug/Kg |
| 74-97-5 | Bromochloromethane | 12.1 | U | 3.50 | 12.1 | 15.1 | ug/Kg |
| 67-66-3 | Chloroform | 12.1 | U | 2.50 | 12.1 | 15.1 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 7.50 | U | 2.80 | 7.50 | 15.1 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 7.50 | U | 2.70 | 7.50 | 15.1 | ug/Kg |
| 71-43-2 | Benzene | 7.50 | U | 2.40 | 7.50 | 15.1 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 7.50 | U | 2.40 | 7.50 | 15.1 | ug/Kg |
| 79-01-6 | Trichloroethene | 7.50 | U | 2.40 | 7.50 | 15.1 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 7.50 | U | 2.70 | 7.50 | 15.1 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 7.50 | U | 2.40 | 7.50 | 15.1 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 37.7 | U | 10.8 | 37.7 | 75.4 | ug/Kg |
| 108-88-3 | Toluene | 7.50 | U | 2.40 | 7.50 | 15.1 | ug/Kg |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 84SB-E | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-09 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 37.6 |
| Sample Wt/Vol: | 4.41 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023071.D | 1 | 08/13/25 15:43 | VY081325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 7.50 | U | 2.00 | 7.50 | 15.1 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 7.50 | U | 1.90 | 7.50 | 15.1 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 7.50 | U | 2.80 | 7.50 | 15.1 | ug/Kg |
| 591-78-6 | 2-Hexanone | 37.7 | U | 11.1 | 37.7 | 75.4 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 7.50 | U | 2.60 | 7.50 | 15.1 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 7.50 | U | 2.70 | 7.50 | 15.1 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 7.50 | U | 3.20 | 7.50 | 15.1 | ug/Kg |
| 108-90-7 | Chlorobenzene | 7.50 | U | 2.70 | 7.50 | 15.1 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 7.50 | U | 2.00 | 7.50 | 15.1 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 15.1 | U | 3.70 | 15.1 | 30.2 | ug/Kg |
| 95-47-6 | o-Xylene | 7.50 | U | 2.50 | 7.50 | 15.1 | ug/Kg |
| 100-42-5 | Styrene | 7.50 | U | 2.10 | 7.50 | 15.1 | ug/Kg |
| 75-25-2 | Bromoform | 7.50 | U | 2.60 | 7.50 | 15.1 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 7.50 | U | 2.40 | 7.50 | 15.1 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 7.50 | U | 3.60 | 7.50 | 15.1 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 7.50 | U | 5.20 | 7.50 | 15.1 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 7.50 | U | 4.70 | 7.50 | 15.1 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 7.50 | U | 4.40 | 7.50 | 15.1 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 12.1 | U | 5.50 | 12.1 | 15.1 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 12.1 | U | 9.00 | 12.1 | 15.1 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 12.1 | U | 9.60 | 12.1 | 15.1 | ug/Kg |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 66.0 | | 71 - 136 | | 132% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 54.2 | | 78 - 119 | | 108% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 51.6 | | 85 - 116 | | 103% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 43.8 | | 79 - 119 | | 88% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 542000 | 7.707 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 1070000 | 8.61 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 903000 | 11.414 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 305000 | 13.34 | | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | | |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 84SB-E | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-09 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 37.6 |
| Sample Wt/Vol: | 4.41 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023071.D | 1 | 08/13/25 15:43 | VY081325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| 000090-12-0 | Naphthalene, 1-methyl- | 17.9 | J | | | 16.4 | ug/Kg |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023071.D
Acq On : 13 Aug 2025 15:43
Operator : SY/MD
Sample : Q2819-09
Misc : 4.41g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-E

Quant Time: Aug 14 01:25:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

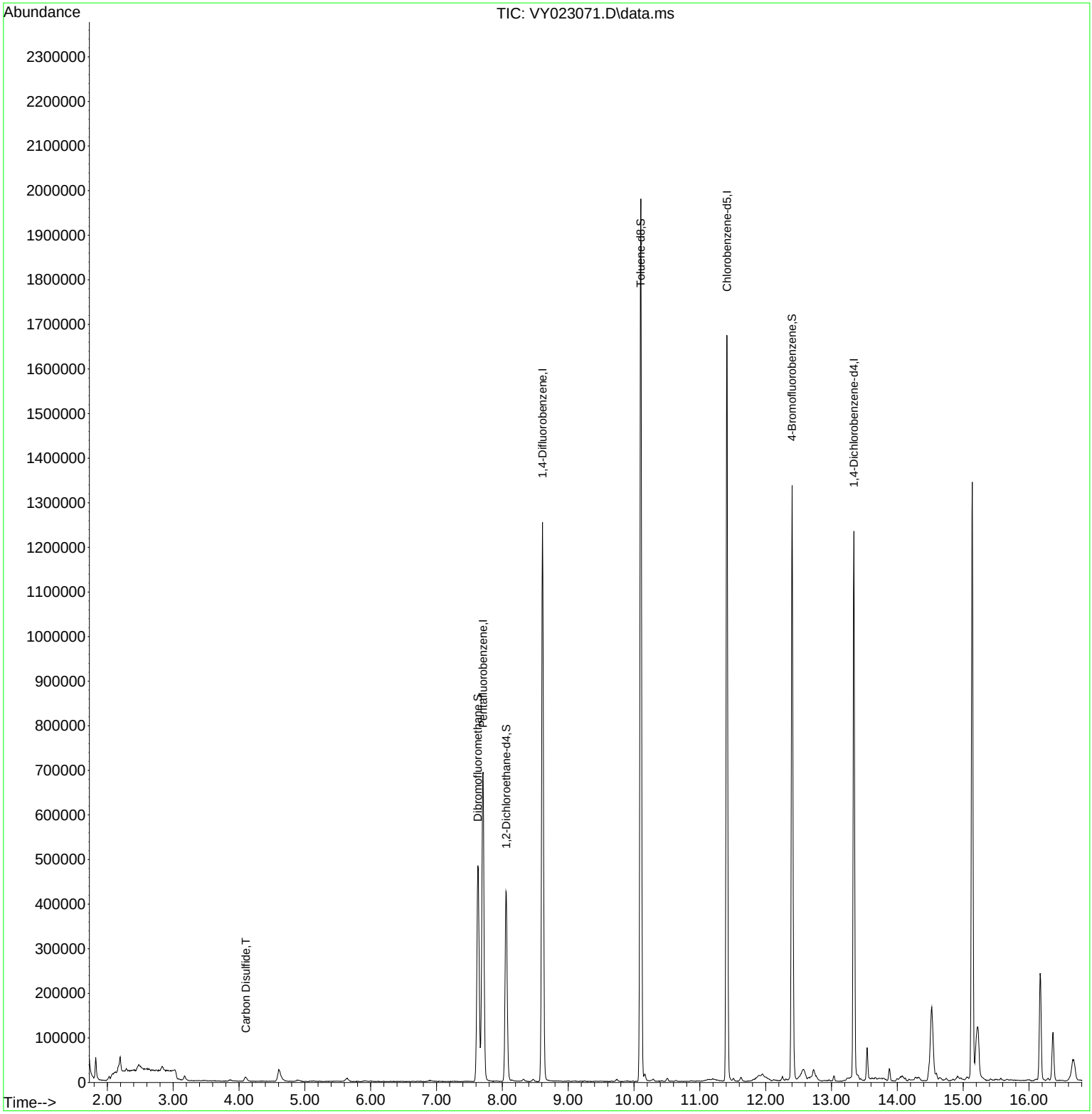
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 542397 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.610 | 114 | 1071198 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 903366 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 305266 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 341117 | 65.988 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 131.980% | | | |
| 35) Dibromofluoromethane | 7.628 | 113 | 347401 | 54.199 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 108.400% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 1291121 | 51.562 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 103.120% | | | |
| 62) 4-Bromofluorobenzene | 12.402 | 95 | 353063 | 43.843 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 87.680% | | | |
| Target Compounds | | | | | | Qvalue |
| 17) Carbon Disulfide | 4.104 | 76 | 18132 | 1.064 | ug/l | 98 |

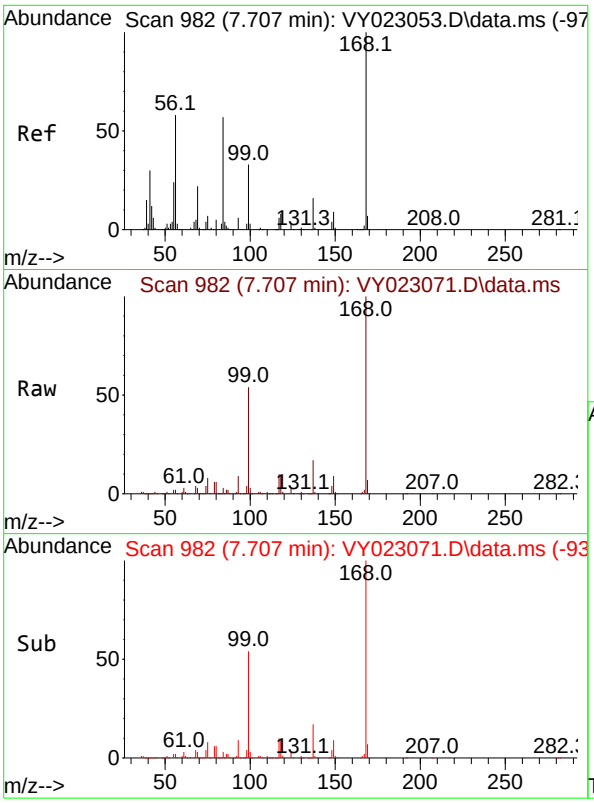
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023071.D
Acq On : 13 Aug 2025 15:43
Operator : SY/MD
Sample : Q2819-09
Misc : 4.41g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-E

Quant Time: Aug 14 01:25:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



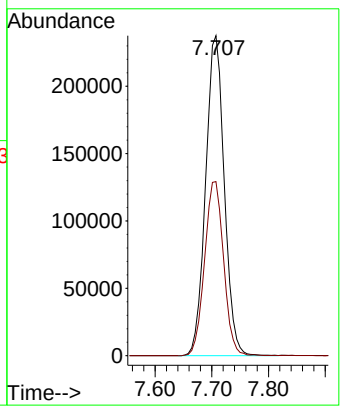


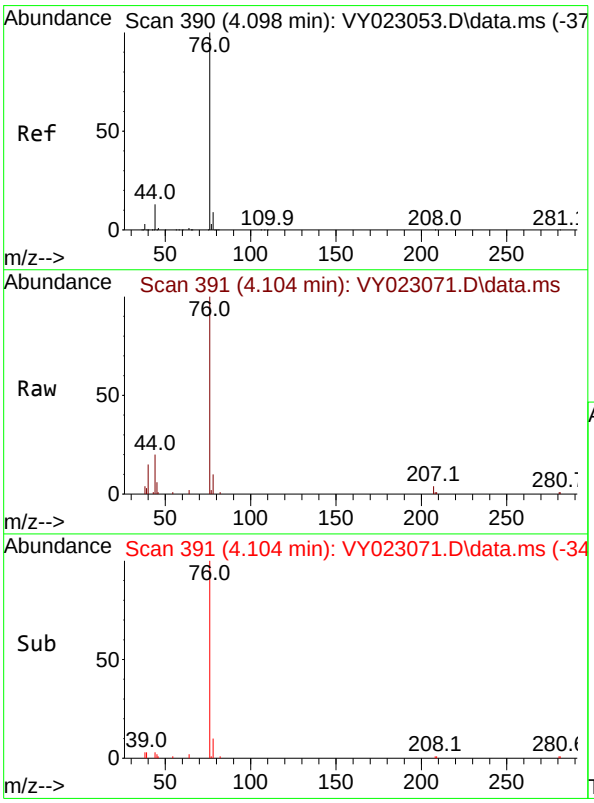

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023071.D
Acq: 13 Aug 2025 15:43

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-E

Tgt Ion:168 Resp: 542397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 54.4 | 42.8 | 64.2 |

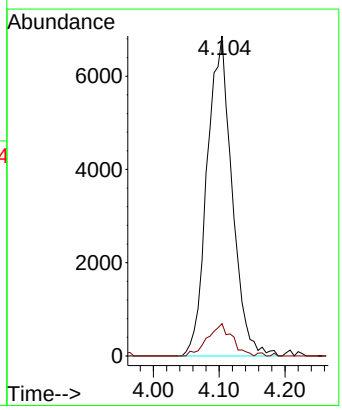


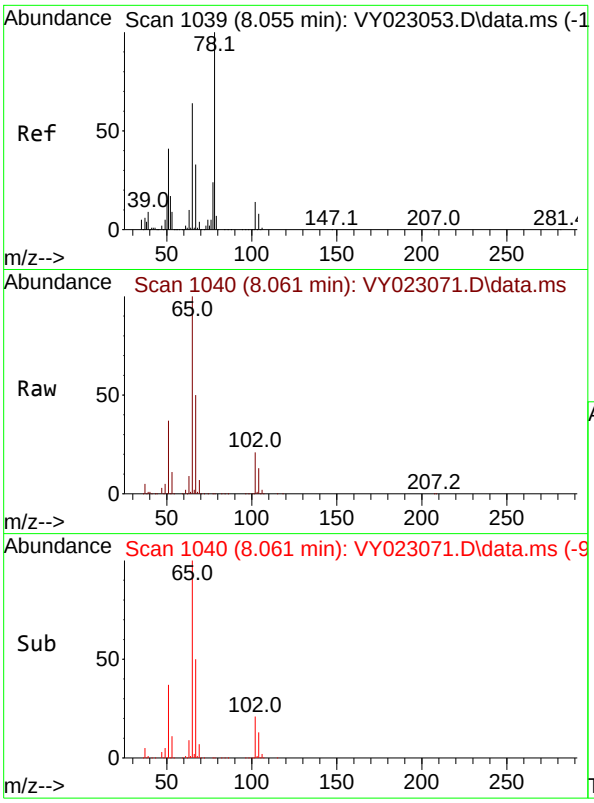




#17
Carbon Disulfide
Concen: 1.064 ug/l
RT: 4.104 min Scan# 391
Delta R.T. 0.006 min
Lab File: VY023071.D
Acq: 13 Aug 2025 15:43

Tgt Ion: 76 Resp: 18132

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 10.1 | 7.4 | 11.2 |



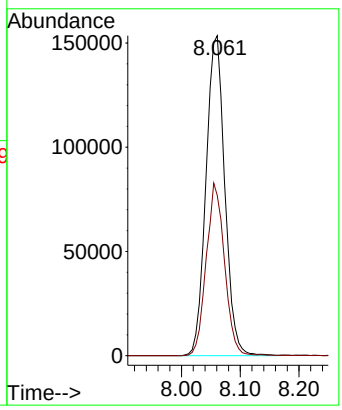


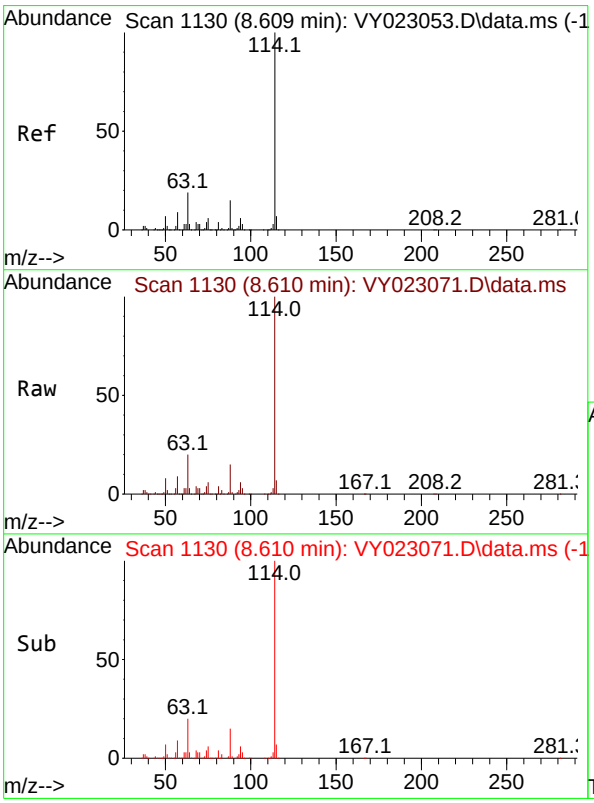

#33
1,2-Dichloroethane-d4
Concen: 65.988 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023071.D
Acq: 13 Aug 2025 15:43

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-E

Tgt Ion: 65 Resp: 341117

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.5 | 0.0 | 106.8 |

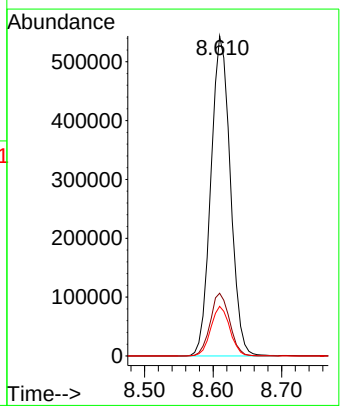


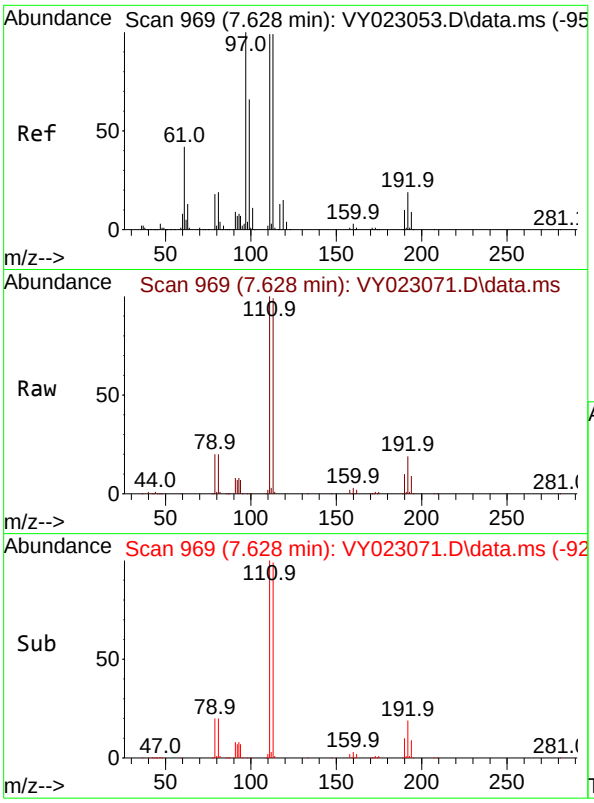




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023071.D
Acq: 13 Aug 2025 15:43

Tgt Ion:114 Resp: 1071198

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.6 | 0.0 | 38.4 |
| 88 | 15.5 | 0.0 | 30.0 |



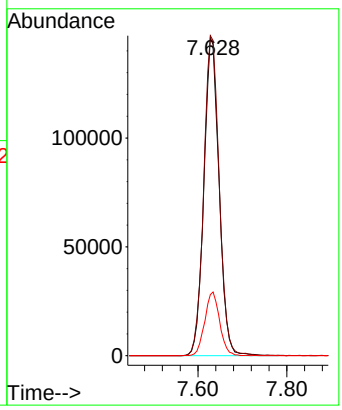


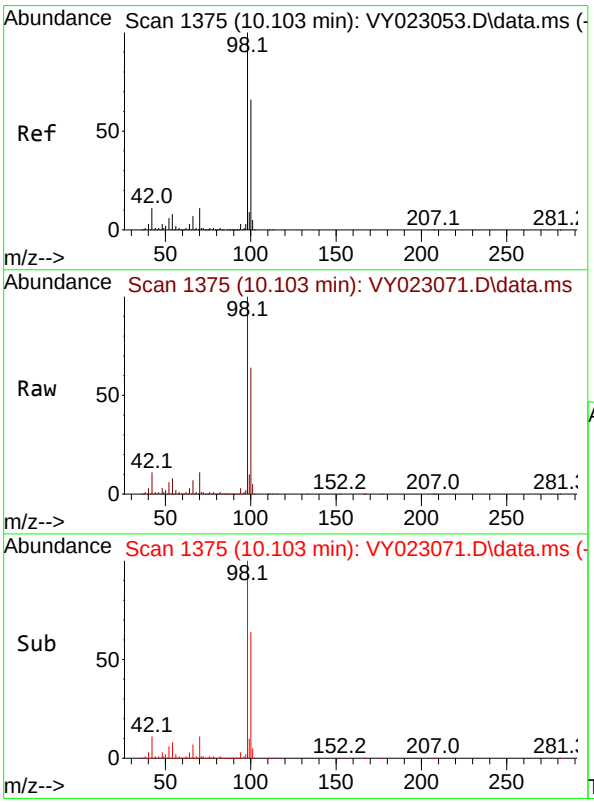

#35
Dibromofluoromethane
Concen: 54.199 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023071.D
Acq: 13 Aug 2025 15:43

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-E

Tgt Ion:113 Resp: 347401

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.5 | 81.1 | 121.7 |
| 192 | 19.6 | 16.2 | 24.4 |

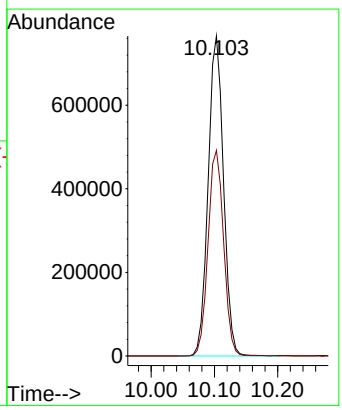


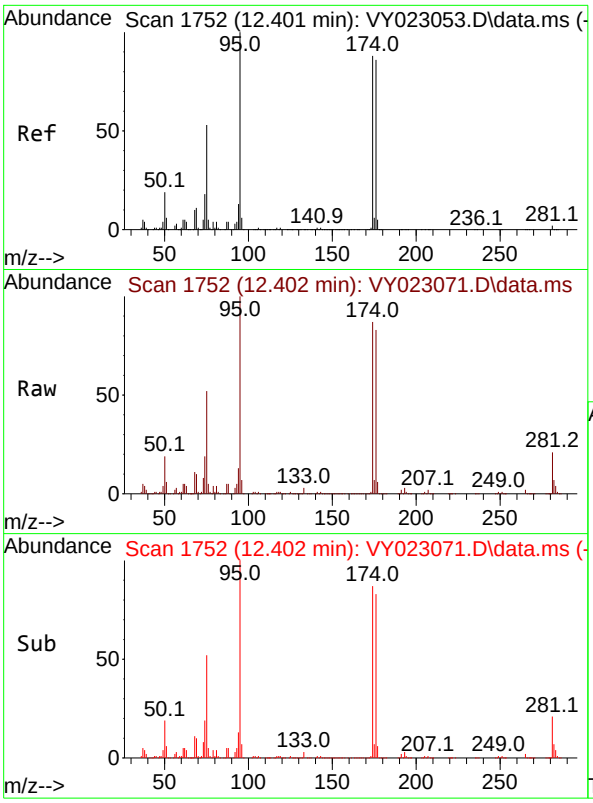




#50
Toluene-d8
Concen: 51.562 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023071.D
Acq: 13 Aug 2025 15:43

Tgt Ion: 98 Resp: 1291121

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.2 | 52.3 | 78.5 |



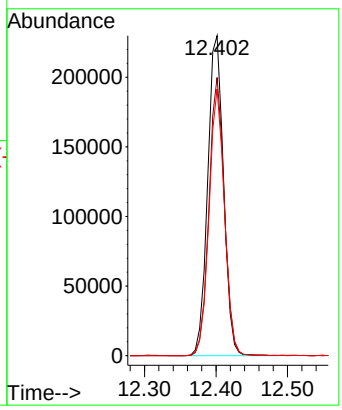


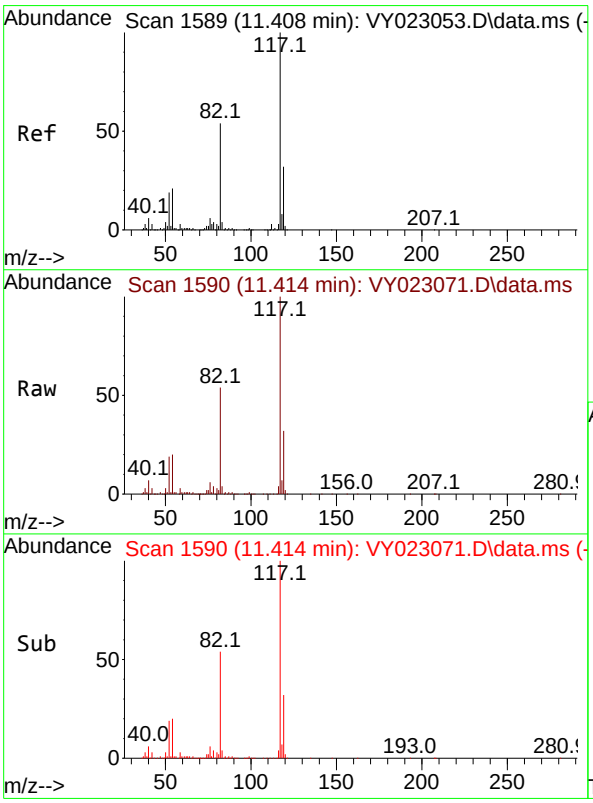

#62
4-Bromofluorobenzene
Concen: 43.843 ug/l
RT: 12.402 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023071.D
Acq: 13 Aug 2025 15:43

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-E

Tgt Ion: 95 Resp: 353063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 84.9 | 0.0 | 171.6 |
| 176 | 81.1 | 0.0 | 167.6 |

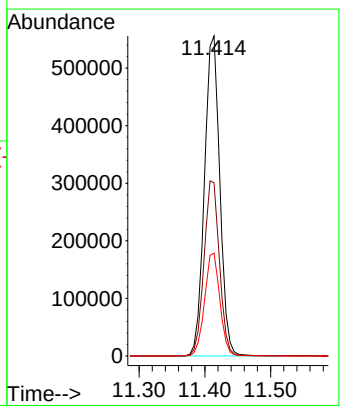


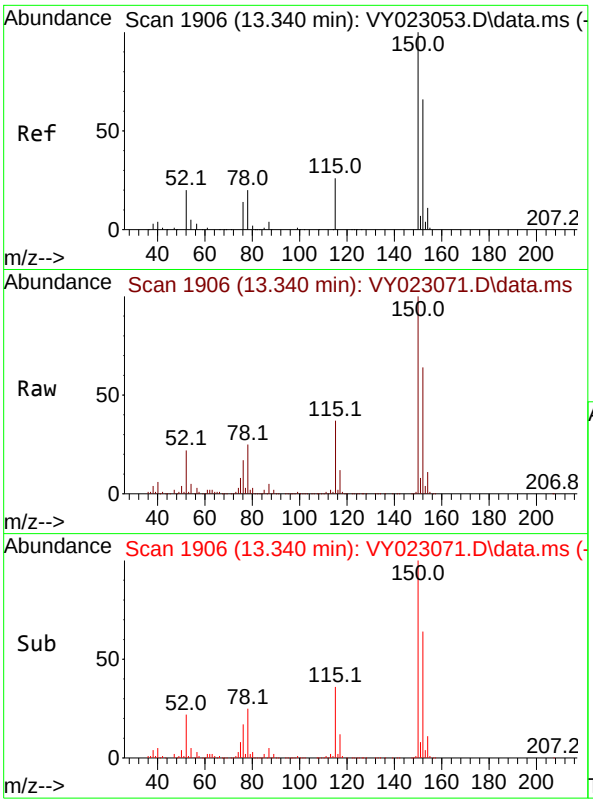




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. 0.006 min
Lab File: VY023071.D
Acq: 13 Aug 2025 15:43

Tgt Ion:117 Resp: 903366

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.1 | 43.4 | 65.0 |
| 119 | 32.2 | 25.6 | 38.4 |



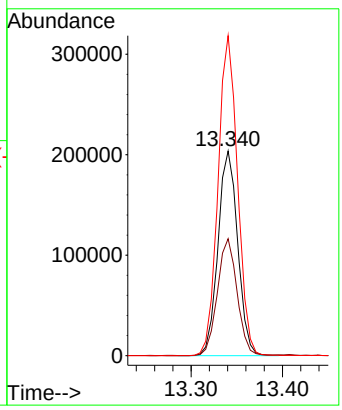



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023071.D
Acq: 13 Aug 2025 15:43

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-E

Tgt Ion:152 Resp: 305266

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.1 | 28.2 | 84.6 |
| 150 | 155.3 | 0.0 | 348.0 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023071.D
Acq On : 13 Aug 2025 15:43
Operator : SY/MD
Sample : Q2819-09
Misc : 4.41g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-E

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Title : SW846 8260

Signal : TIC: VY023071.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.824 | 12 | 17 | 26 | rVB2 | 50594 | 76875 | 2.28% | 0.364% |
| 2 | 2.196 | 68 | 78 | 84 | rBV2 | 35256 | 78958 | 2.34% | 0.374% |
| 3 | 2.477 | 117 | 124 | 137 | rBV10 | 13481 | 55079 | 1.63% | 0.261% |
| 4 | 4.604 | 461 | 473 | 497 | rVB5 | 26742 | 98016 | 2.90% | 0.465% |
| 5 | 7.628 | 959 | 969 | 975 | rBV | 484100 | 1153042 | 34.14% | 5.465% |
| 6 | 7.707 | 975 | 982 | 997 | rVB | 692352 | 1604631 | 47.51% | 7.606% |
| 7 | 8.055 | 1028 | 1039 | 1051 | rBV | 426252 | 965872 | 28.60% | 4.578% |
| 8 | 8.610 | 1121 | 1130 | 1145 | rBV | 1254317 | 2460067 | 72.84% | 11.661% |
| 9 | 10.103 | 1366 | 1375 | 1382 | rBV | 1979217 | 3377322 | 100.00% | 16.009% |
| 10 | 11.408 | 1582 | 1589 | 1602 | rBV | 1671765 | 2771806 | 82.07% | 13.138% |
| 11 | 12.402 | 1742 | 1752 | 1764 | rBV2 | 1333007 | 2278710 | 67.47% | 10.801% |
| 12 | 12.578 | 1764 | 1781 | 1789 | rVV6 | 21827 | 101746 | 3.01% | 0.482% |
| 13 | 12.725 | 1796 | 1805 | 1823 | rVB10 | 24909 | 98643 | 2.92% | 0.468% |
| 14 | 13.340 | 1895 | 1906 | 1914 | rBV | 1226870 | 1861769 | 55.13% | 8.825% |
| 15 | 13.542 | 1932 | 1939 | 1944 | rBV | 73820 | 118339 | 3.50% | 0.561% |
| 16 | 13.877 | 1988 | 1994 | 2001 | rVB | 27053 | 45110 | 1.34% | 0.214% |
| 17 | 14.523 | 2087 | 2100 | 2109 | rBV | 164833 | 531580 | 15.74% | 2.520% |
| 18 | 15.139 | 2192 | 2201 | 2207 | rBV | 1337953 | 2220135 | 65.74% | 10.523% |
| 19 | 15.218 | 2207 | 2214 | 2234 | rVB2 | 119731 | 427249 | 12.65% | 2.025% |
| 20 | 16.169 | 2363 | 2370 | 2380 | rVB | 238984 | 454192 | 13.45% | 2.153% |
| 21 | 16.364 | 2394 | 2402 | 2411 | rVB | 108263 | 220764 | 6.54% | 1.046% |
| 22 | 16.663 | 2436 | 2451 | 2452 | rBV | 46823 | 97127 | 2.88% | 0.460% |

Sum of corrected areas: 21097032

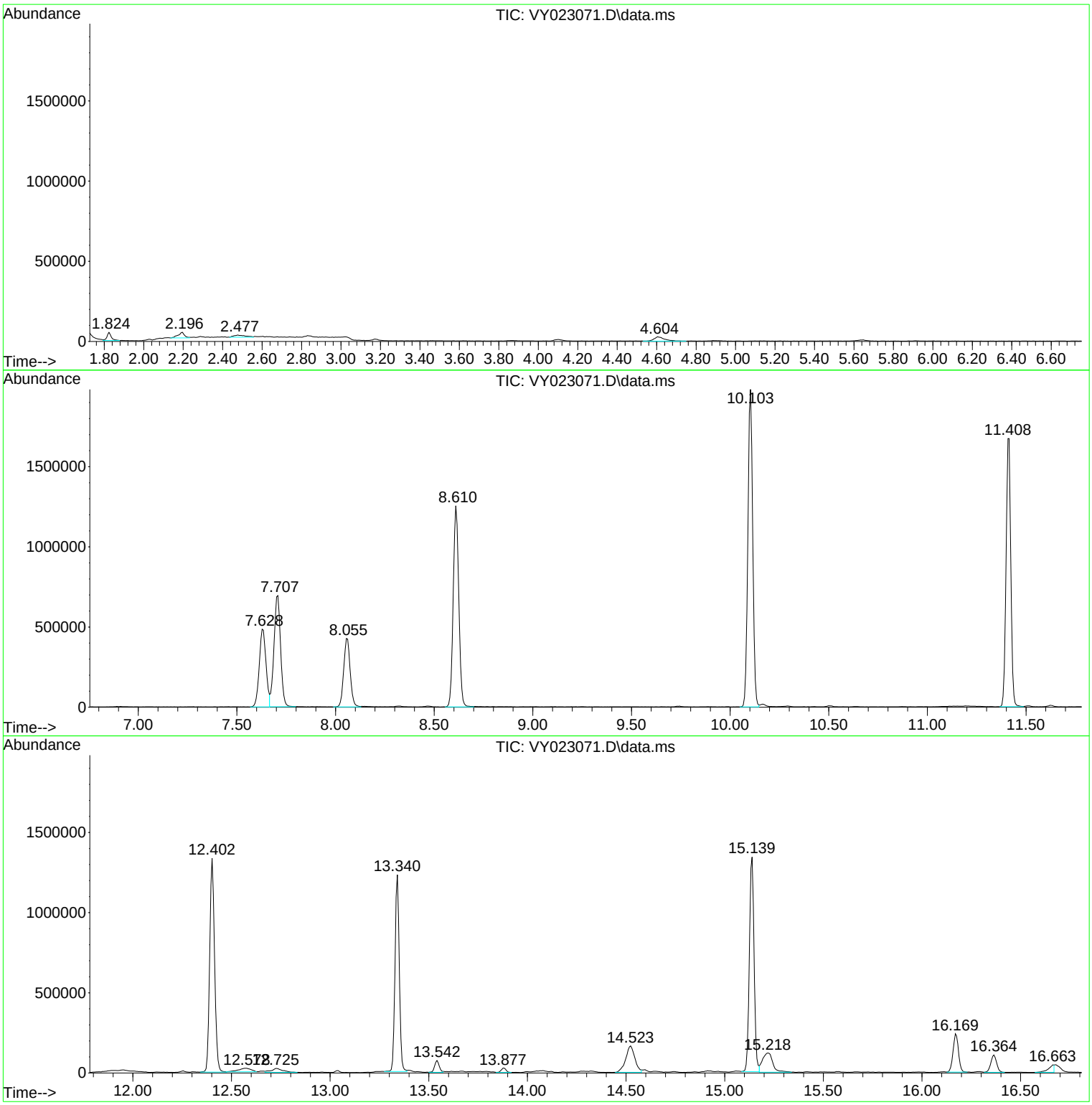
Sample Results: **VY023071.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023071.D
Acq On : 13 Aug 2025 15:43
Operator : SY/MD
Sample : Q2819-09
Misc : 4.41g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023071.D
Acq On : 13 Aug 2025 15:43
Operator : SY/MD
Sample : Q2819-09
Misc : 4.41g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

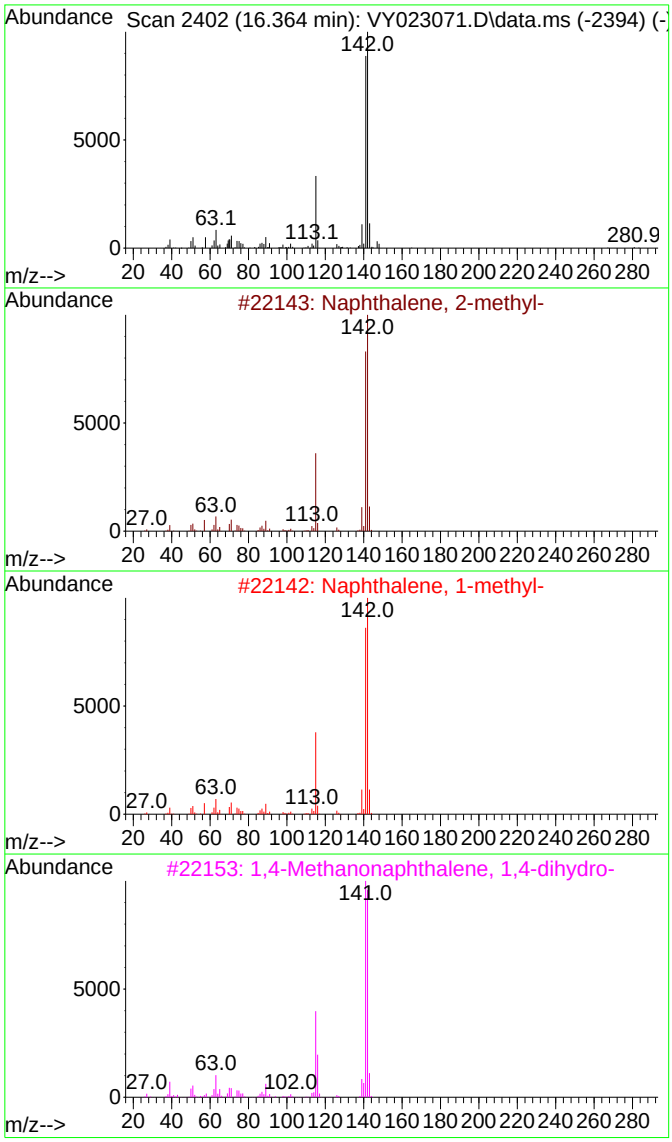
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

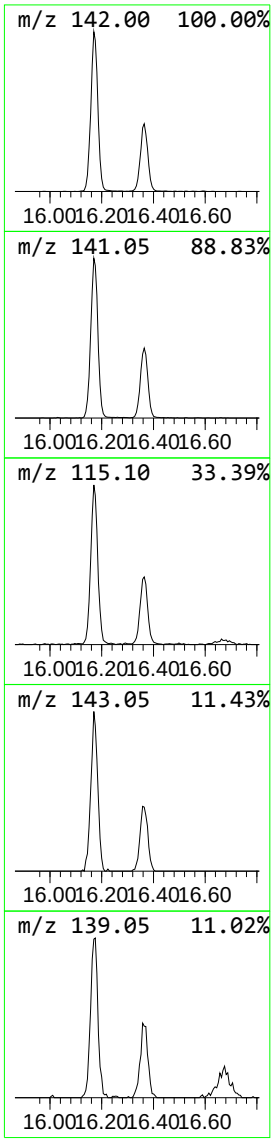
**********

Peak Number 5 Naphthalene, 1-methyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.364 | 5.93 ug/l | 220764 | 1,4-Dichlorobenzene-d4 | 13.340 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 97 |
| 2 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 97 |
| 3 | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10 | 004453-90-1 | 94 |
| 4 | Benzocycloheptatriene | 142 | C11H10 | 000264-09-5 | 91 |
| 5 | 1H-Indene, 1-ethylidene- | 142 | C11H10 | 002471-83-2 | 87 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023071.D
Acq On : 13 Aug 2025 15:43
Operator : SY/MD
Sample : Q2819-09
Misc : 4.41g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Naphthalene, 1-... | 16.364 | 5.9 | ug/l | 220764 | 4 | 13.340 | 1861770 | 50.0 |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 84SB-S | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-10 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 92.3 |
| Sample Wt/Vol: | 5.52 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023072.D | 1 | 08/13/25 16:06 | VY081325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 3.90 | U | 1.10 | 3.90 | 4.90 | ug/Kg |
| 74-87-3 | Chloromethane | 2.50 | U | 1.10 | 2.50 | 4.90 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 2.50 | U | 0.78 | 2.50 | 4.90 | ug/Kg |
| 74-83-9 | Bromomethane | 3.90 | U | 1.10 | 3.90 | 4.90 | ug/Kg |
| 75-00-3 | Chloroethane | 2.50 | U | 1.20 | 2.50 | 4.90 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 3.90 | U | 1.20 | 3.90 | 4.90 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 2.50 | U | 1.00 | 2.50 | 4.90 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 2.50 | U | 0.98 | 2.50 | 4.90 | ug/Kg |
| 67-64-1 | Acetone | 19.6 | U | 4.70 | 19.6 | 24.5 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 3.90 | U | 1.00 | 3.90 | 4.90 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 2.50 | U | 0.72 | 2.50 | 4.90 | ug/Kg |
| 79-20-9 | Methyl Acetate | 3.90 | U | 1.50 | 3.90 | 4.90 | ug/Kg |
| 75-09-2 | Methylene Chloride | 7.90 | U | 3.50 | 7.90 | 9.80 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 2.50 | U | 0.84 | 2.50 | 4.90 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 2.50 | U | 0.79 | 2.50 | 4.90 | ug/Kg |
| 110-82-7 | Cyclohexane | 2.50 | U | 0.78 | 2.50 | 4.90 | ug/Kg |
| 78-93-3 | 2-Butanone | 19.6 | U | 6.40 | 19.6 | 24.5 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 2.50 | U | 0.95 | 2.50 | 4.90 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 2.50 | U | 0.74 | 2.50 | 4.90 | ug/Kg |
| 74-97-5 | Bromochloromethane | 3.90 | U | 1.10 | 3.90 | 4.90 | ug/Kg |
| 67-66-3 | Chloroform | 3.90 | U | 0.82 | 3.90 | 4.90 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 2.50 | U | 0.91 | 2.50 | 4.90 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 2.50 | U | 0.89 | 2.50 | 4.90 | ug/Kg |
| 71-43-2 | Benzene | 2.50 | U | 0.78 | 2.50 | 4.90 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 2.50 | U | 0.78 | 2.50 | 4.90 | ug/Kg |
| 79-01-6 | Trichloroethene | 2.50 | U | 0.79 | 2.50 | 4.90 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 2.50 | U | 0.89 | 2.50 | 4.90 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 2.50 | U | 0.77 | 2.50 | 4.90 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 12.3 | U | 3.50 | 12.3 | 24.5 | ug/Kg |
| 108-88-3 | Toluene | 2.50 | U | 0.77 | 2.50 | 4.90 | ug/Kg |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 84SB-S | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-10 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 92.3 |
| Sample Wt/Vol: | 5.52 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023072.D | 1 | 08/13/25 16:06 | VY081325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 2.50 | U | 0.64 | 2.50 | 4.90 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 2.50 | U | 0.61 | 2.50 | 4.90 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 2.50 | U | 0.90 | 2.50 | 4.90 | ug/Kg |
| 591-78-6 | 2-Hexanone | 12.3 | U | 3.60 | 12.3 | 24.5 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 2.50 | U | 0.85 | 2.50 | 4.90 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 2.50 | U | 0.86 | 2.50 | 4.90 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 2.50 | U | 1.00 | 2.50 | 4.90 | ug/Kg |
| 108-90-7 | Chlorobenzene | 2.50 | U | 0.89 | 2.50 | 4.90 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 2.50 | U | 0.66 | 2.50 | 4.90 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 4.90 | U | 1.20 | 4.90 | 9.80 | ug/Kg |
| 95-47-6 | o-Xylene | 2.50 | U | 0.80 | 2.50 | 4.90 | ug/Kg |
| 100-42-5 | Styrene | 2.50 | U | 0.70 | 2.50 | 4.90 | ug/Kg |
| 75-25-2 | Bromoform | 2.50 | U | 0.84 | 2.50 | 4.90 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 2.50 | U | 0.77 | 2.50 | 4.90 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 2.50 | U | 1.20 | 2.50 | 4.90 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 2.50 | U | 1.70 | 2.50 | 4.90 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 2.50 | U | 1.50 | 2.50 | 4.90 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 2.50 | U | 1.40 | 2.50 | 4.90 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 3.90 | U | 1.80 | 3.90 | 4.90 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 3.90 | U | 2.90 | 3.90 | 4.90 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 3.90 | U | 3.10 | 3.90 | 4.90 | ug/Kg |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 59.0 | | 71 - 136 | | 118% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 53.4 | | 78 - 119 | | 107% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 51.6 | | 85 - 116 | | 103% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 38.9 | * | 79 - 119 | | 78% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 617000 | 7.707 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 1190000 | 8.61 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 951000 | 11.414 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 298000 | 13.34 | | | | |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 84SB-S | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-10 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 92.3 |
| Sample Wt/Vol: | 5.52 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023072.D | 1 | 08/13/25 16:06 | VY081325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023072.D
Acq On : 13 Aug 2025 16:06
Operator : SY/MD
Sample : Q2819-10
Misc : 5.52g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-S

Quant Time: Aug 14 01:25:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 616963 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.610 | 114 | 1186470 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 951178 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 298114 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.055 | 65 | 347001 | 59.013 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 118.020% | | | |
| 35) Dibromofluoromethane | 7.628 | 113 | 378899 | 53.370 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 106.740% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 1431015 | 51.597 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 103.200% | | | |
| 62) 4-Bromofluorobenzene | 12.402 | 95 | 346712 | 38.872 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 77.740% | | | |

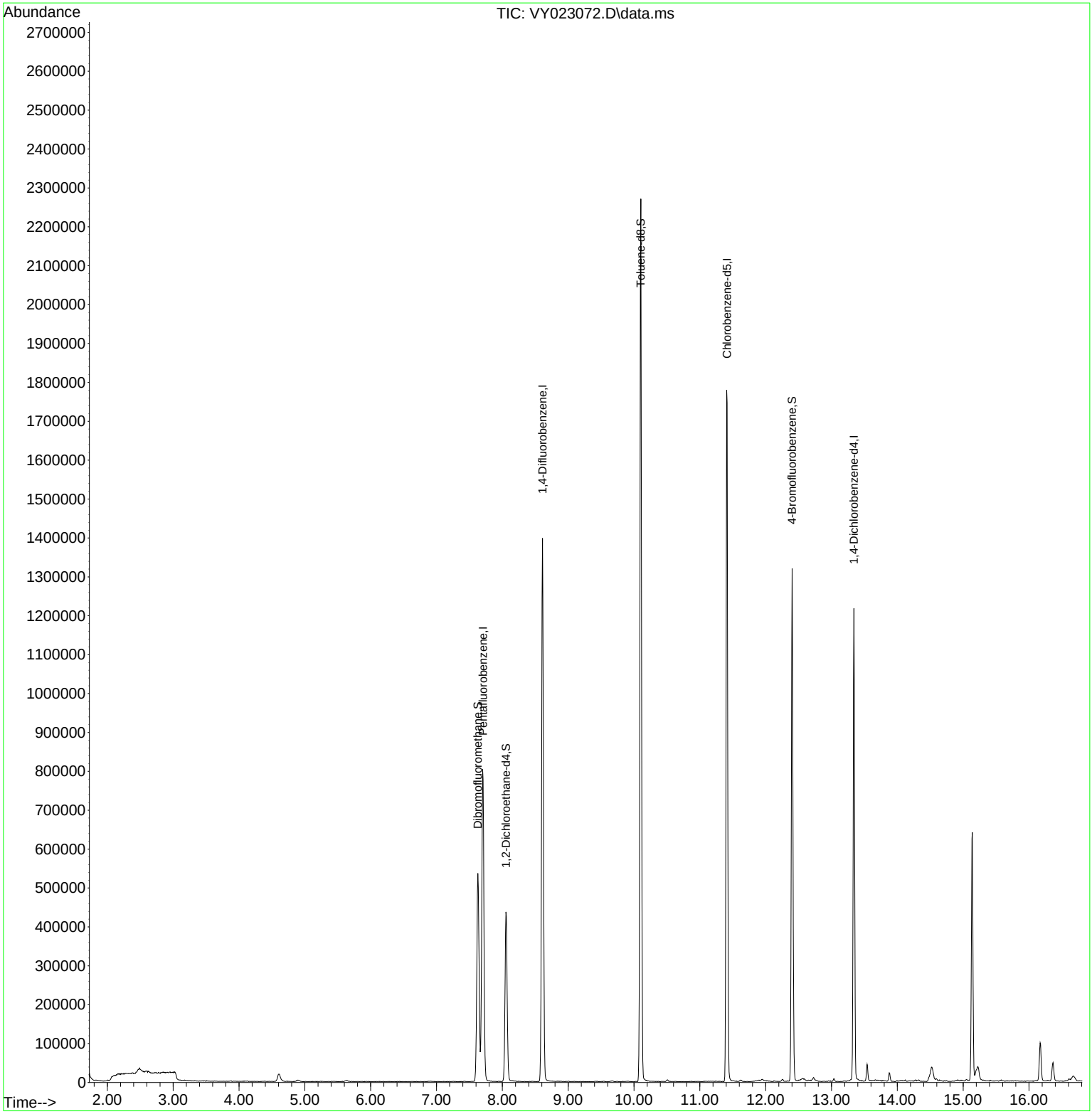
Target Compounds Qvalue

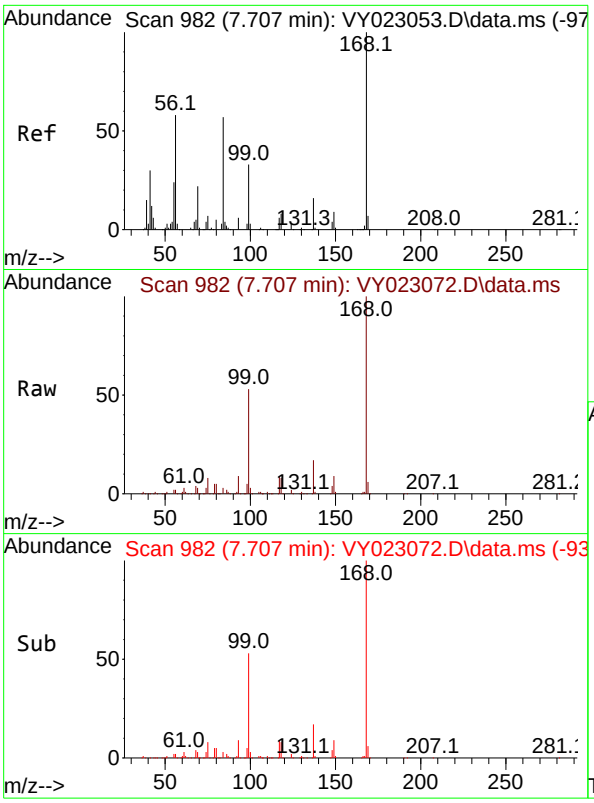
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023072.D
Acq On : 13 Aug 2025 16:06
Operator : SY/MD
Sample : Q2819-10
Misc : 5.52g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-S

Quant Time: Aug 14 01:25:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



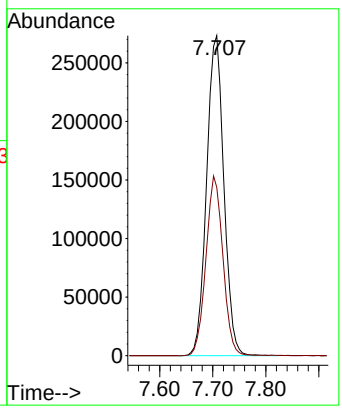


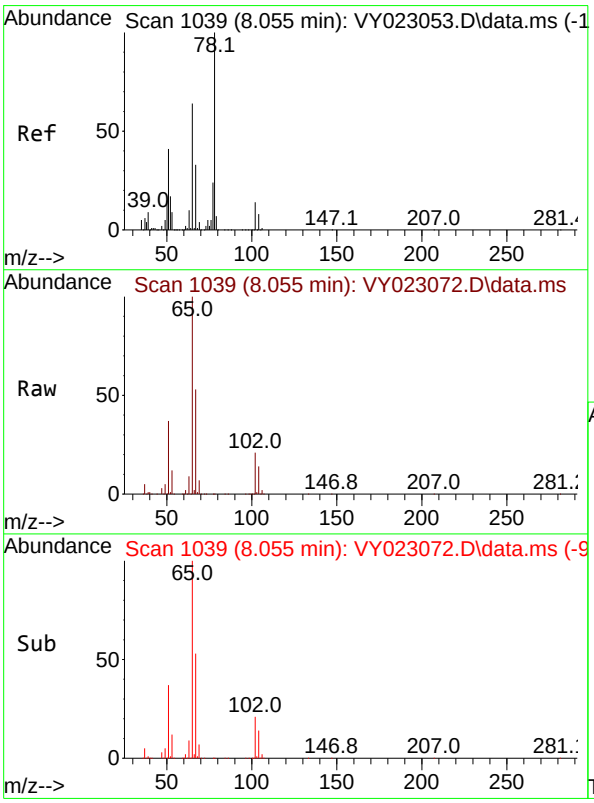

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023072.D
Acq: 13 Aug 2025 16:06

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-S

Tgt Ion:168 Resp: 616963

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 52.6 | 42.8 | 64.2 |

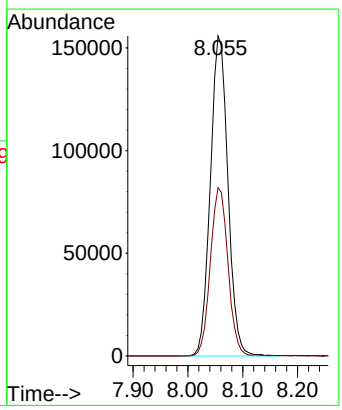


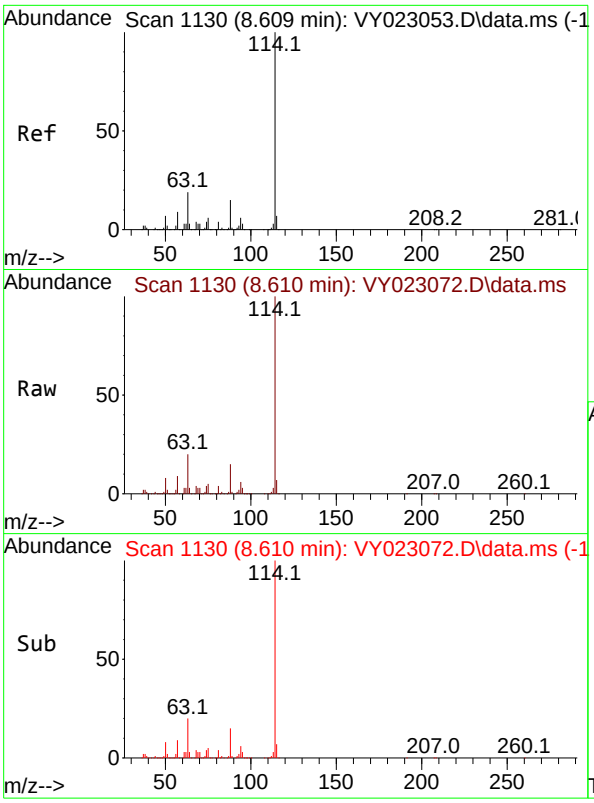




#33
1,2-Dichloroethane-d4
Concen: 59.013 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. 0.000 min
Lab File: VY023072.D
Acq: 13 Aug 2025 16:06

Tgt Ion: 65 Resp: 347001

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.7 | 0.0 | 106.8 |



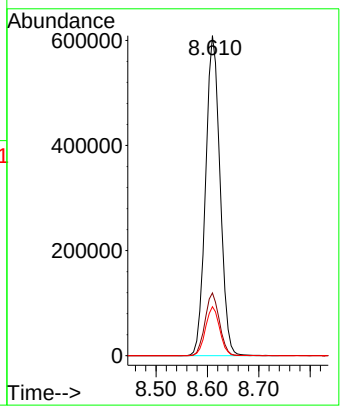


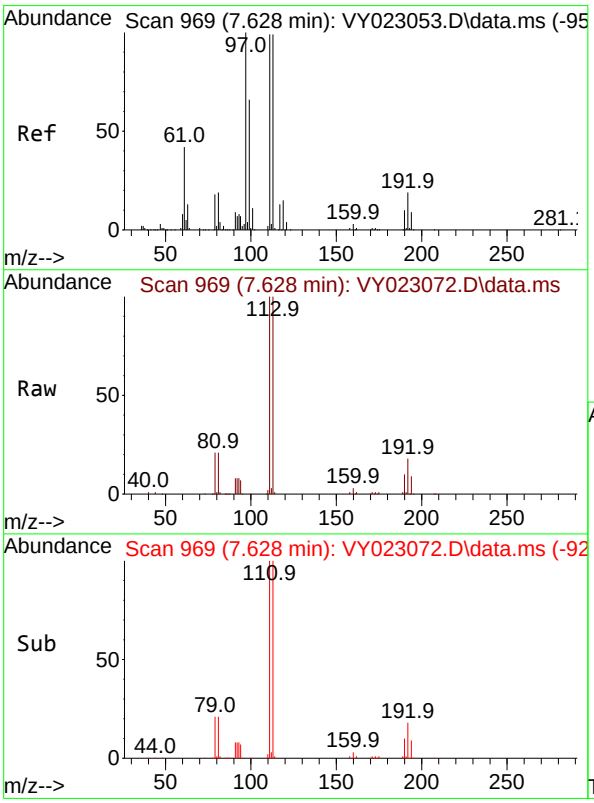

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023072.D
Acq: 13 Aug 2025 16:06

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-S

Tgt Ion:114 Resp: 1186470

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.6 | 0.0 | 38.4 |
| 88 | 15.3 | 0.0 | 30.0 |

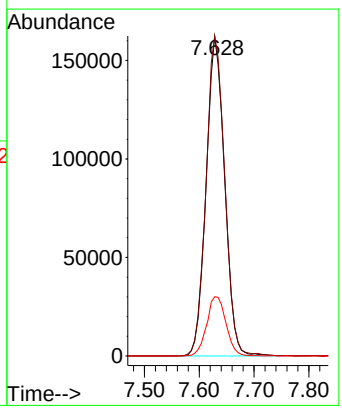


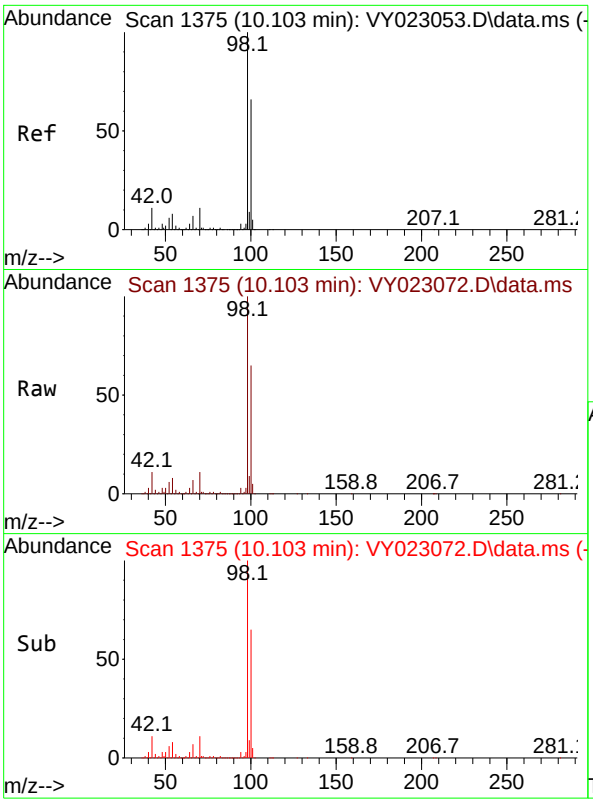




#35
Dibromofluoromethane
Concen: 53.370 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.000 min
Lab File: VY023072.D
Acq: 13 Aug 2025 16:06

Tgt Ion:113 Resp: 378899

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.9 | 81.1 | 121.7 |
| 192 | 19.4 | 16.2 | 24.4 |



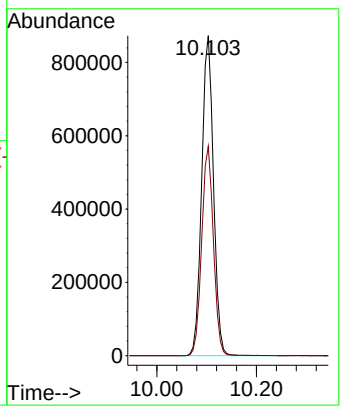


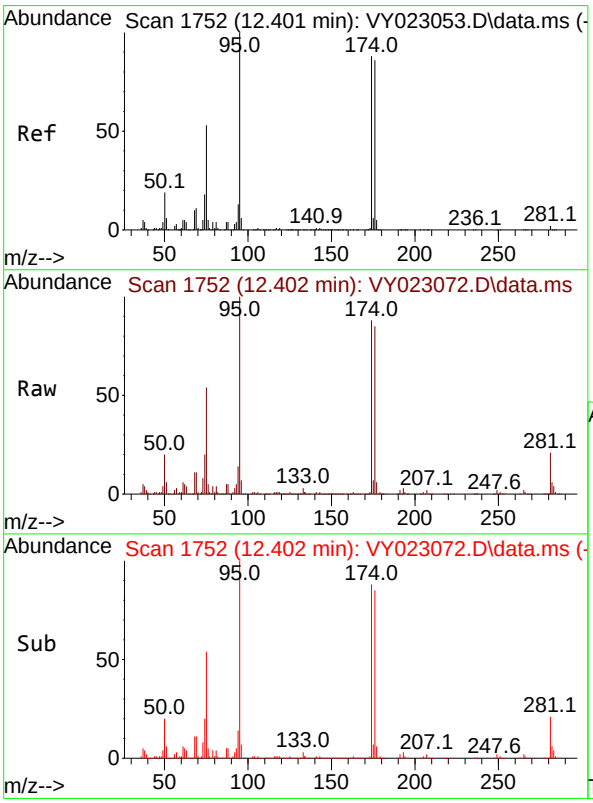

#50
Toluene-d8
Concen: 51.597 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023072.D
Acq: 13 Aug 2025 16:06

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-S

Tgt Ion: 98 Resp: 1431015

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.2 | 52.3 | 78.5 |

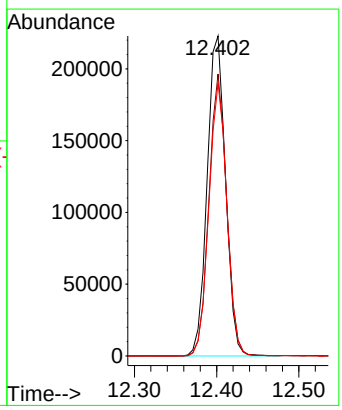


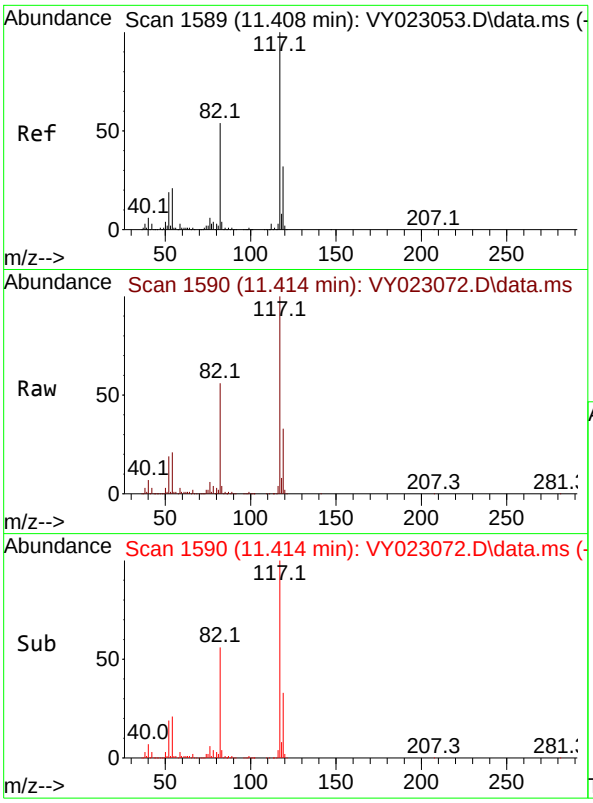




#62
4-Bromofluorobenzene
Concen: 38.872 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023072.D
Acq: 13 Aug 2025 16:06

Tgt Ion: 95 Resp: 346712

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 85.1 | 0.0 | 171.6 |
| 176 | 83.0 | 0.0 | 167.6 |



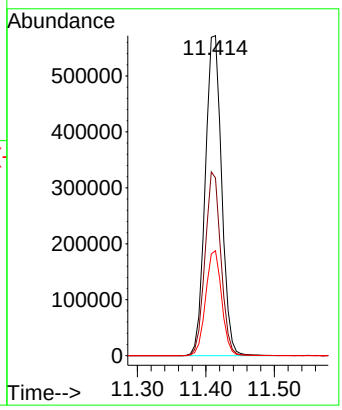


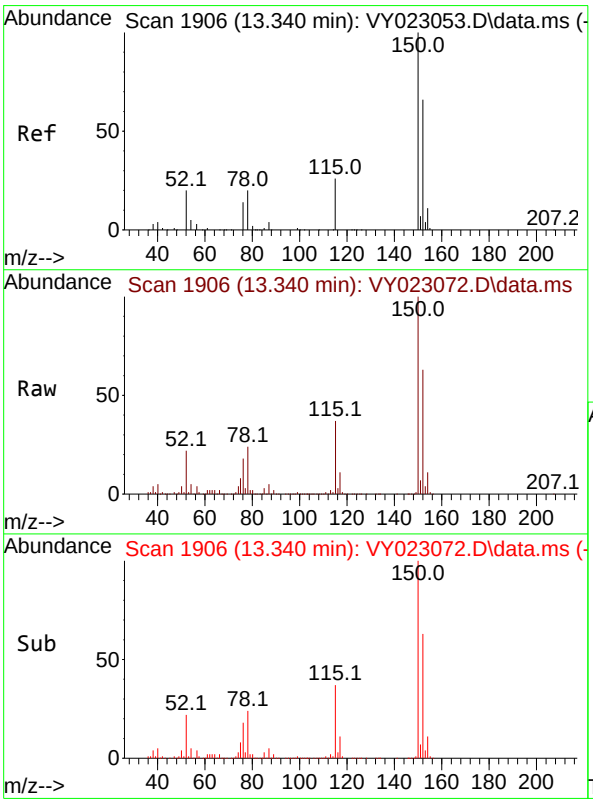

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023072.D
Acq: 13 Aug 2025 16:06

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-S

Tgt Ion:117 Resp: 951178

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 55.6 | 43.4 | 65.0 |
| 119 | 32.8 | 25.6 | 38.4 |

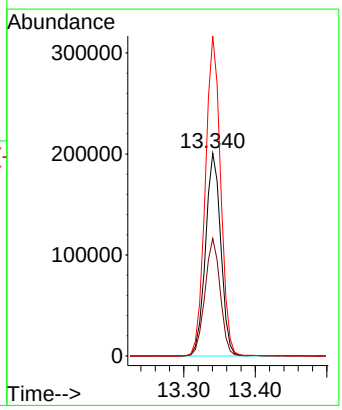



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023072.D
Acq: 13 Aug 2025 16:06

Tgt Ion:152 Resp: 298114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.8 | 28.2 | 84.6 |
| 150 | 157.6 | 0.0 | 348.0 |



Sample Results: **VY023072.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023072.D
Acq On : 13 Aug 2025 16:06
Operator : SY/MD
Sample : Q2819-10
Misc : 5.52g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-S

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Title : SW846 8260

Signal : TIC: VY023072.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.604 | 464 | 473 | 484 | rBV3 | 19029 | 62559 | 1.66% | 0.324% |
| 2 | 7.628 | 959 | 969 | 975 | rBV | 535064 | 1259937 | 33.47% | 6.531% |
| 3 | 7.701 | 975 | 981 | 993 | rVB | 801734 | 1806636 | 47.99% | 9.365% |
| 4 | 8.055 | 1030 | 1039 | 1051 | rBV | 436112 | 976269 | 25.93% | 5.061% |
| 5 | 8.610 | 1120 | 1130 | 1143 | rBV | 1397303 | 2718809 | 72.22% | 14.093% |
| 6 | 10.103 | 1367 | 1375 | 1392 | rBV | 2269571 | 3764541 | 100.00% | 19.514% |
| 7 | 11.408 | 1581 | 1589 | 1602 | rBV | 1777967 | 2939143 | 78.07% | 15.235% |
| 8 | 12.402 | 1744 | 1752 | 1764 | rBV2 | 1318412 | 2246893 | 59.69% | 11.647% |
| 9 | 13.340 | 1899 | 1906 | 1915 | rBV | 1211947 | 1811934 | 48.13% | 9.392% |
| 10 | 13.542 | 1934 | 1939 | 1945 | rBV | 42174 | 64916 | 1.72% | 0.336% |
| 11 | 14.523 | 2087 | 2100 | 2109 | rBV2 | 37634 | 136090 | 3.62% | 0.705% |
| 12 | 15.139 | 2191 | 2201 | 2207 | rBV | 638532 | 1047907 | 27.84% | 5.432% |
| 13 | 15.224 | 2207 | 2215 | 2227 | rVB4 | 35534 | 121990 | 3.24% | 0.632% |
| 14 | 16.169 | 2362 | 2370 | 2381 | rVB | 98377 | 193455 | 5.14% | 1.003% |
| 15 | 16.364 | 2394 | 2402 | 2411 | rVB | 47368 | 98241 | 2.61% | 0.509% |
| 16 | 16.675 | 2446 | 2453 | 2462 | rVB4 | 12567 | 42284 | 1.12% | 0.219% |

Sum of corrected areas: 19291604

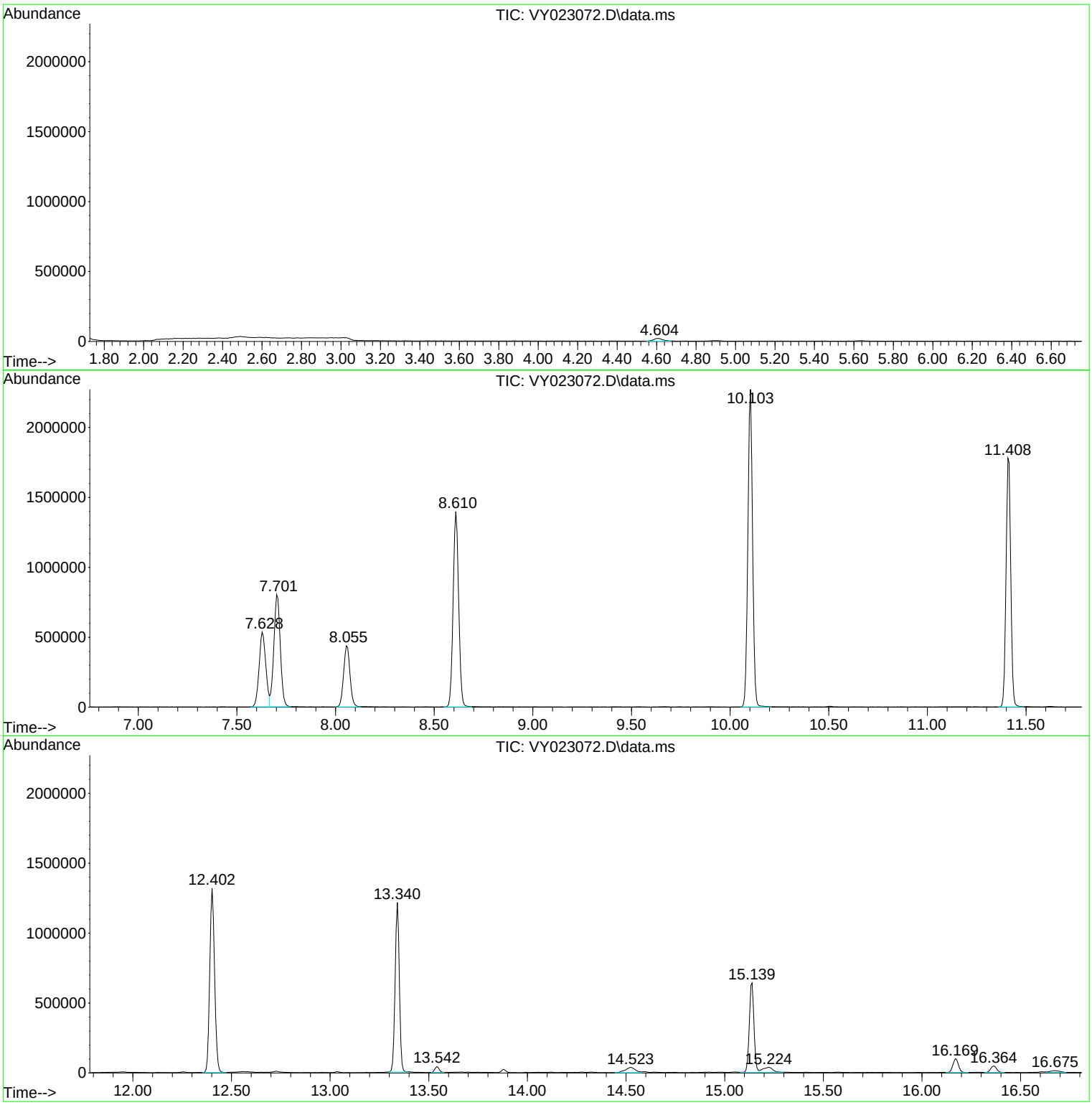
Sample Results: **VY023072.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023072.D
Acq On : 13 Aug 2025 16:06
Operator : SY/MD
Sample : Q2819-10
Misc : 5.52g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023072.D
Acq On : 13 Aug 2025 16:06
Operator : SY/MD
Sample : Q2819-10
Misc : 5.52g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
**********

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023072.D
Acq On : 13 Aug 2025 16:06
Operator : SY/MD
Sample : Q2819-10
Misc : 5.52g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name | RT | EstConc | Units | Response | Internal Standard # | Internal Standard RT | Internal Standard Resp | Internal Standard Conc |
|---|---|---|---|---|---|---|---|---|

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 84SB-SRE | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-10RE | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 92.3 |
| Sample Wt/Vol: | 4.96 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023089.D | 1 | 08/14/25 12:50 | VY081425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 4.40 | U | 1.20 | 4.40 | 5.50 | ug/Kg |
| 74-87-3 | Chloromethane | 2.70 | U | 1.20 | 2.70 | 5.50 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 2.70 | U | 0.86 | 2.70 | 5.50 | ug/Kg |
| 74-83-9 | Bromomethane | 4.40 | U | 1.20 | 4.40 | 5.50 | ug/Kg |
| 75-00-3 | Chloroethane | 2.70 | U | 1.40 | 2.70 | 5.50 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 4.40 | U | 1.30 | 4.40 | 5.50 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 2.70 | U | 1.20 | 2.70 | 5.50 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 2.70 | U | 1.10 | 2.70 | 5.50 | ug/Kg |
| 67-64-1 | Acetone | 21.8 | U | 5.20 | 21.8 | 27.3 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 4.40 | U | 1.20 | 4.40 | 5.50 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 2.70 | U | 0.80 | 2.70 | 5.50 | ug/Kg |
| 79-20-9 | Methyl Acetate | 4.40 | U | 1.70 | 4.40 | 5.50 | ug/Kg |
| 75-09-2 | Methylene Chloride | 8.70 | U | 3.90 | 8.70 | 10.9 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 2.70 | U | 0.94 | 2.70 | 5.50 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 2.70 | U | 0.87 | 2.70 | 5.50 | ug/Kg |
| 110-82-7 | Cyclohexane | 2.70 | U | 0.86 | 2.70 | 5.50 | ug/Kg |
| 78-93-3 | 2-Butanone | 21.8 | U | 7.10 | 21.8 | 27.3 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 2.70 | U | 1.10 | 2.70 | 5.50 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 2.70 | U | 0.82 | 2.70 | 5.50 | ug/Kg |
| 74-97-5 | Bromochloromethane | 4.40 | U | 1.30 | 4.40 | 5.50 | ug/Kg |
| 67-66-3 | Chloroform | 4.40 | U | 0.92 | 4.40 | 5.50 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 2.70 | U | 1.00 | 2.70 | 5.50 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 2.70 | U | 0.99 | 2.70 | 5.50 | ug/Kg |
| 71-43-2 | Benzene | 2.70 | U | 0.86 | 2.70 | 5.50 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 2.70 | U | 0.86 | 2.70 | 5.50 | ug/Kg |
| 79-01-6 | Trichloroethene | 2.70 | U | 0.88 | 2.70 | 5.50 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 2.70 | U | 0.99 | 2.70 | 5.50 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 2.70 | U | 0.85 | 2.70 | 5.50 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 13.7 | U | 3.90 | 13.7 | 27.3 | ug/Kg |
| 108-88-3 | Toluene | 2.70 | U | 0.85 | 2.70 | 5.50 | ug/Kg |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 84SB-SRE | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-10RE | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 92.3 |
| Sample Wt/Vol: | 4.96 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023089.D | 1 | 08/14/25 12:50 | VY081425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 2.70 | U | 0.71 | 2.70 | 5.50 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 2.70 | U | 0.68 | 2.70 | 5.50 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 2.70 | U | 1.00 | 2.70 | 5.50 | ug/Kg |
| 591-78-6 | 2-Hexanone | 13.7 | U | 4.00 | 13.7 | 27.3 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 2.70 | U | 0.95 | 2.70 | 5.50 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 2.70 | U | 0.96 | 2.70 | 5.50 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 2.70 | U | 1.10 | 2.70 | 5.50 | ug/Kg |
| 108-90-7 | Chlorobenzene | 2.70 | U | 0.99 | 2.70 | 5.50 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 2.70 | U | 0.73 | 2.70 | 5.50 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 5.50 | U | 1.40 | 5.50 | 10.9 | ug/Kg |
| 95-47-6 | o-Xylene | 2.70 | U | 0.90 | 2.70 | 5.50 | ug/Kg |
| 100-42-5 | Styrene | 2.70 | U | 0.78 | 2.70 | 5.50 | ug/Kg |
| 75-25-2 | Bromoform | 2.70 | U | 0.94 | 2.70 | 5.50 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 2.70 | U | 0.85 | 2.70 | 5.50 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 2.70 | U | 1.30 | 2.70 | 5.50 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 2.70 | U | 1.90 | 2.70 | 5.50 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 2.70 | U | 1.70 | 2.70 | 5.50 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 2.70 | U | 1.60 | 2.70 | 5.50 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 4.40 | U | 2.00 | 4.40 | 5.50 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.40 | U | 3.20 | 4.40 | 5.50 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 4.40 | U | 3.50 | 4.40 | 5.50 | ug/Kg |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 61.1 | | 71 - 136 | | 122% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 54.8 | | 78 - 119 | | 110% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 52.3 | | 85 - 116 | | 105% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 35.0 | * | 79 - 119 | | 70% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 511000 | 7.707 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 976000 | 8.609 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 769000 | 11.414 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 212000 | 13.34 | | | | |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 84SB-SRE | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-10RE | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 92.3 |
| Sample Wt/Vol: | 4.96 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023089.D | 1 | 08/14/25 12:50 | VY081425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023089.D
Acq On : 14 Aug 2025 12:50
Operator : SY/MD
Sample : Q2819-10RE
Misc : 4.96g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-SRE

Quant Time: Aug 14 14:47:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 511221 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.609 | 114 | 976224 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 768763 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 212273 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.055 | 65 | 297512 | 61.062 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 122.120% | | | |
| 35) Dibromofluoromethane | 7.628 | 113 | 320069 | 54.793 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 109.580% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 1193902 | 52.318 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 104.640% | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 256857 | 35.000 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 70.000% | | | |

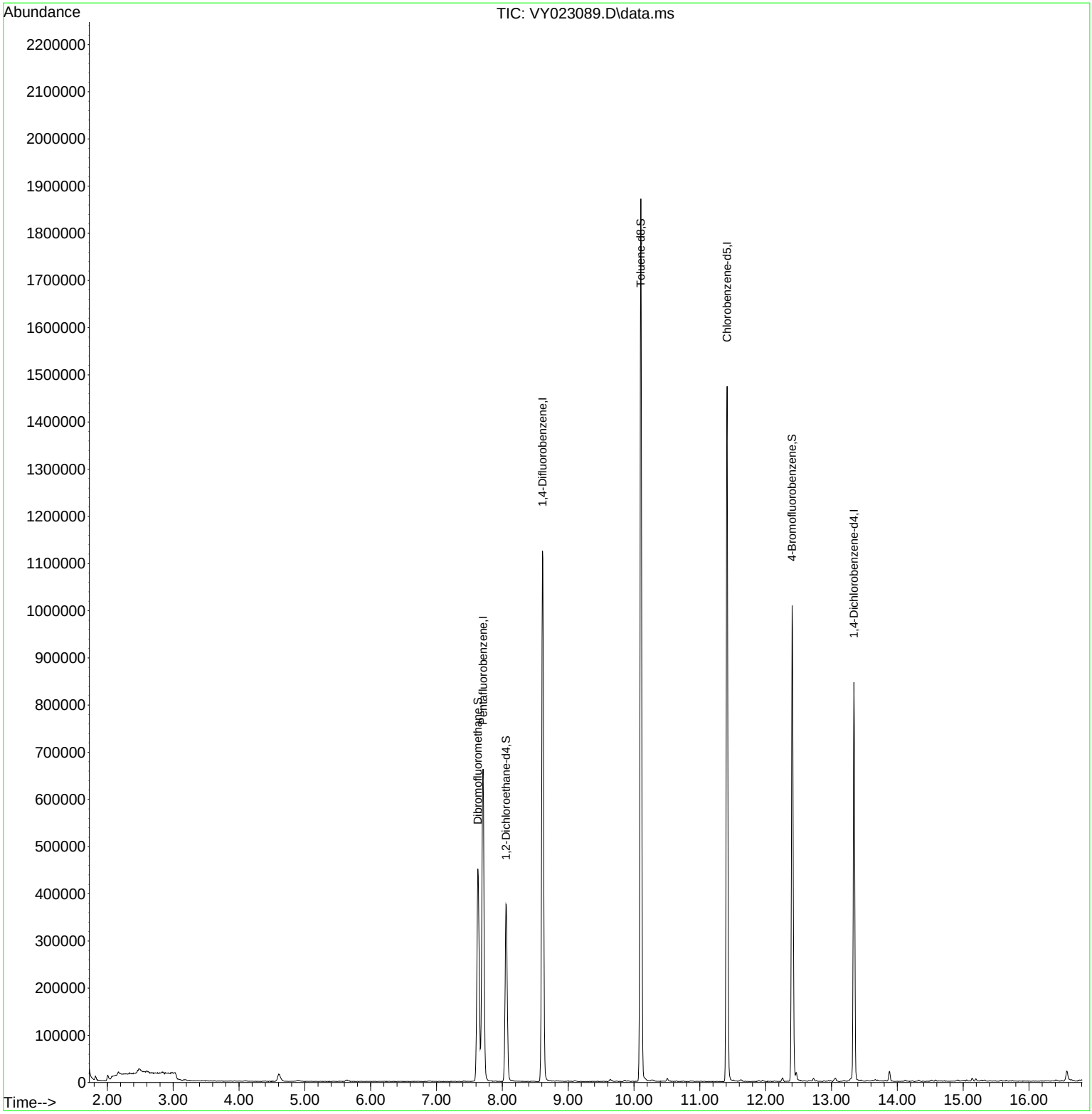
Target Compounds Qvalue

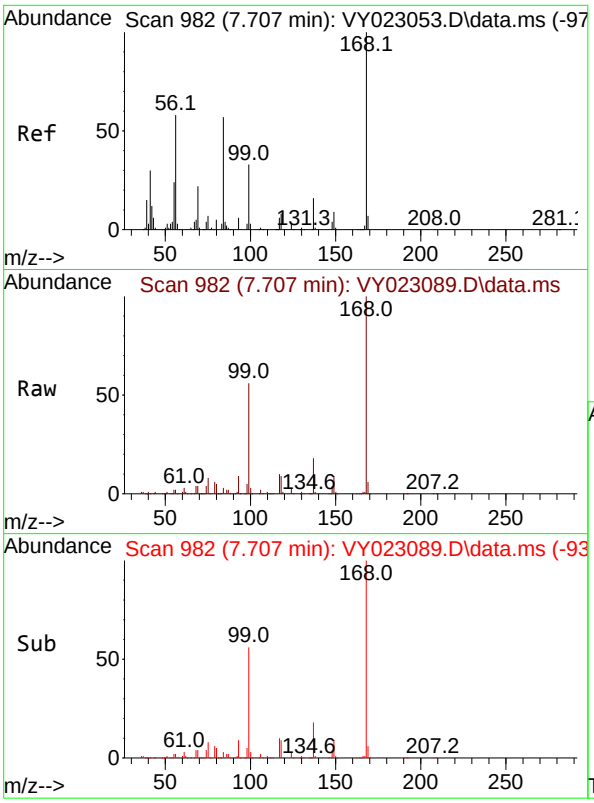
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023089.D
Acq On : 14 Aug 2025 12:50
Operator : SY/MD
Sample : Q2819-10RE
Misc : 4.96g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-SRE

Quant Time: Aug 14 14:47:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



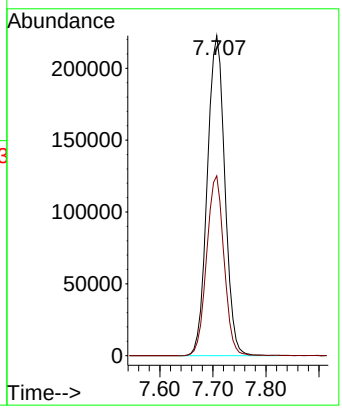


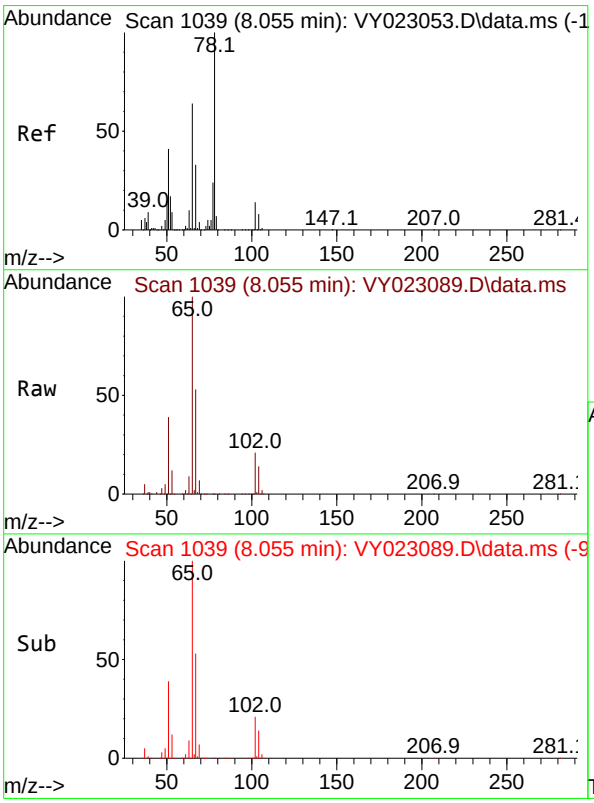

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023089.D
Acq: 14 Aug 2025 12:50

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-SRE

Tgt Ion:168 Resp: 511221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 56.2 | 42.8 | 64.2 |

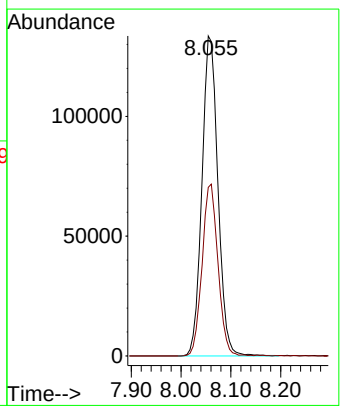


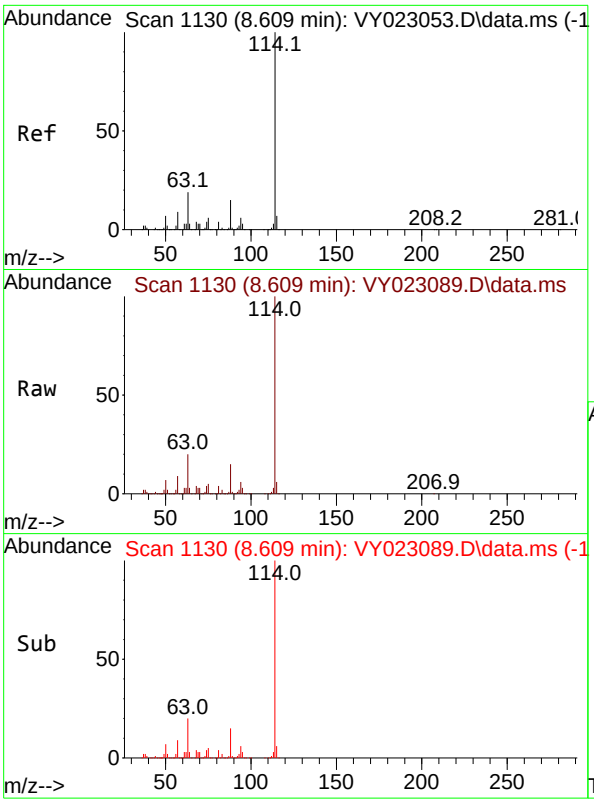




#33
1,2-Dichloroethane-d4
Concen: 61.062 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. 0.000 min
Lab File: VY023089.D
Acq: 14 Aug 2025 12:50

Tgt Ion: 65 Resp: 297512

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.3 | 0.0 | 106.8 |



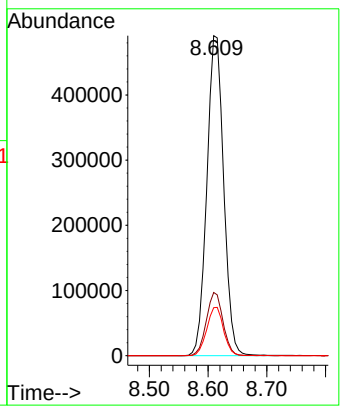


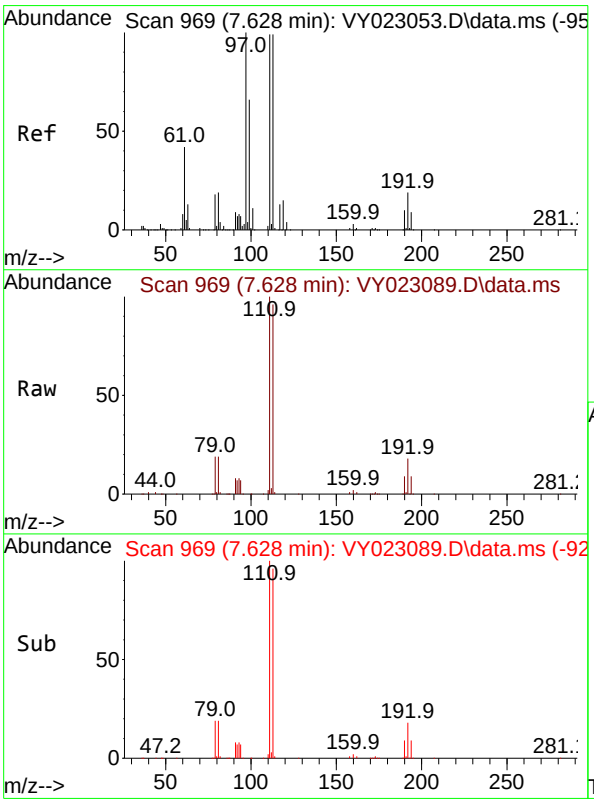

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023089.D
Acq: 14 Aug 2025 12:50

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-SRE

Tgt Ion:114 Resp: 976224

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.8 | 0.0 | 38.4 |
| 88 | 15.0 | 0.0 | 30.0 |

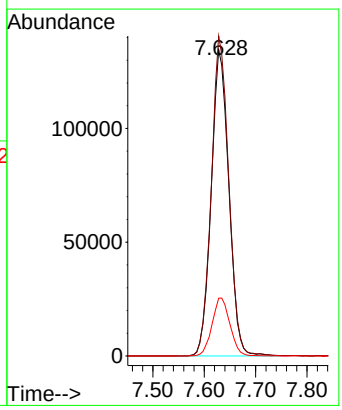


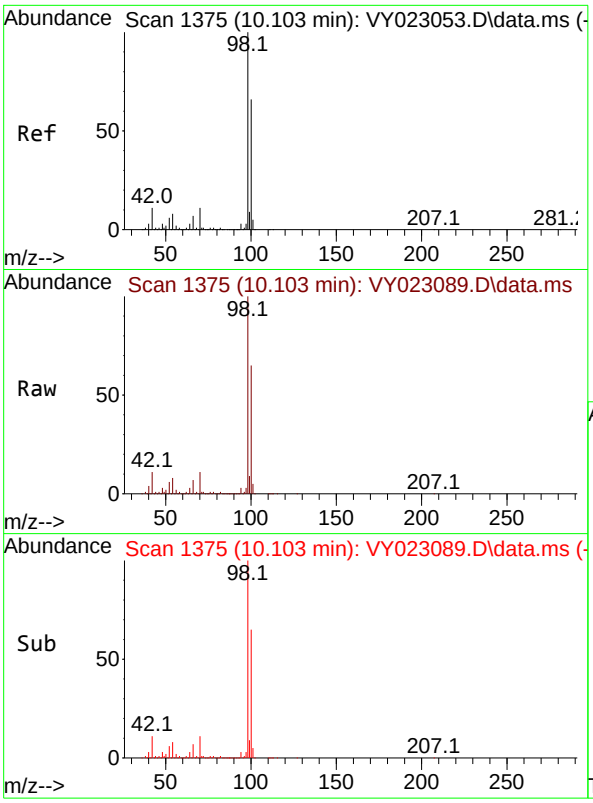




#35
Dibromofluoromethane
Concen: 54.793 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.000 min
Lab File: VY023089.D
Acq: 14 Aug 2025 12:50

Tgt Ion:113 Resp: 320069

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.8 | 81.1 | 121.7 |
| 192 | 19.3 | 16.2 | 24.4 |



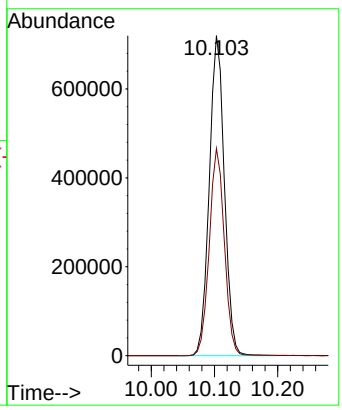


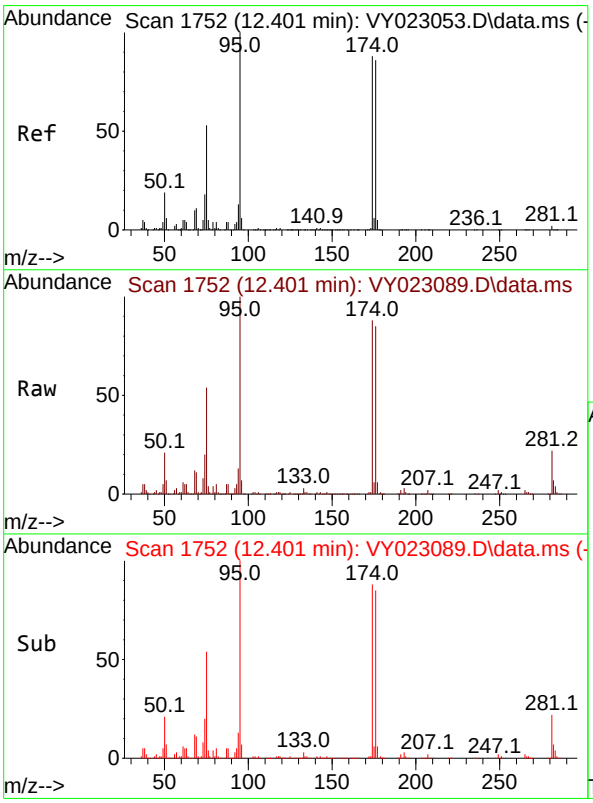

#50
Toluene-d8
Concen: 52.318 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023089.D
Acq: 14 Aug 2025 12:50

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-SRE

Tgt Ion: 98 Resp: 1193902

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.6 | 52.3 | 78.5 |

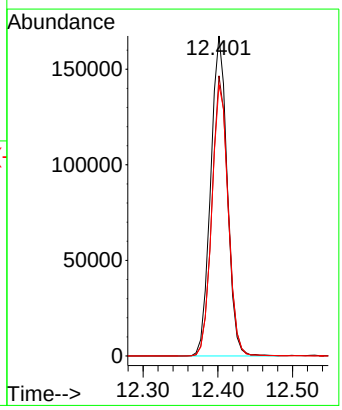


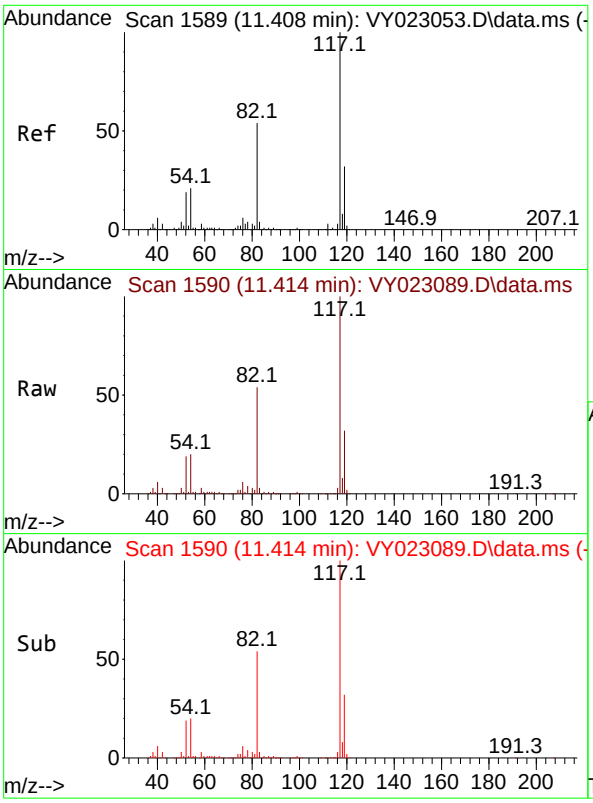




#62
4-Bromofluorobenzene
Concen: 35.000 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023089.D
Acq: 14 Aug 2025 12:50

Tgt Ion: 95 Resp: 256857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 85.7 | 0.0 | 171.6 |
| 176 | 84.2 | 0.0 | 167.6 |



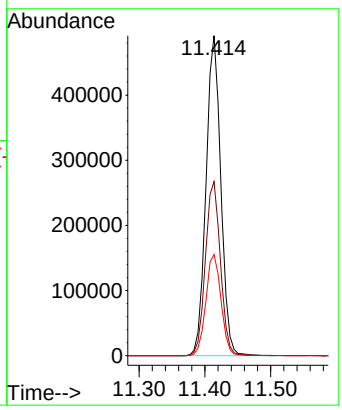


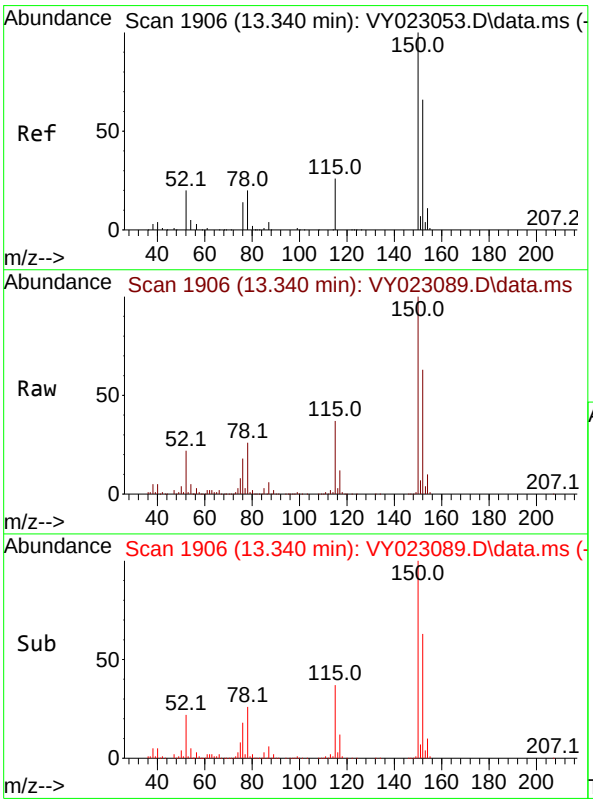

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023089.D
Acq: 14 Aug 2025 12:50

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-SRE

Tgt Ion:117 Resp: 768763

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.4 | 43.4 | 65.0 |
| 119 | 31.6 | 25.6 | 38.4 |

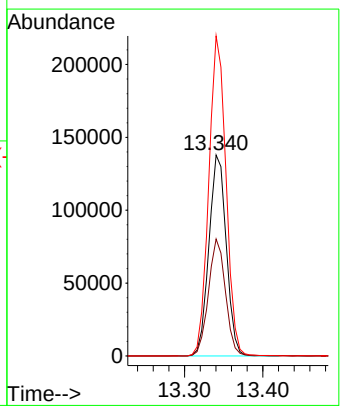



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023089.D
Acq: 14 Aug 2025 12:50

Tgt Ion:152 Resp: 212273

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.0 | 28.2 | 84.6 |
| 150 | 157.7 | 0.0 | 348.0 |



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 84SB-W | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-11 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 86.8 |
| Sample Wt/Vol: | 5.46 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023073.D | 1 | 08/13/25 16:30 | VY081325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 4.20 | U | 1.20 | 4.20 | 5.30 | ug/Kg |
| 74-87-3 | Chloromethane | 2.60 | U | 1.20 | 2.60 | 5.30 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 2.60 | U | 0.83 | 2.60 | 5.30 | ug/Kg |
| 74-83-9 | Bromomethane | 4.20 | U | 1.10 | 4.20 | 5.30 | ug/Kg |
| 75-00-3 | Chloroethane | 2.60 | U | 1.30 | 2.60 | 5.30 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 4.20 | U | 1.30 | 4.20 | 5.30 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 2.60 | U | 1.10 | 2.60 | 5.30 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 2.60 | U | 1.10 | 2.60 | 5.30 | ug/Kg |
| 67-64-1 | Acetone | 21.1 | U | 5.00 | 21.1 | 26.4 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 4.20 | U | 1.10 | 4.20 | 5.30 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 2.60 | U | 0.77 | 2.60 | 5.30 | ug/Kg |
| 79-20-9 | Methyl Acetate | 4.20 | U | 1.60 | 4.20 | 5.30 | ug/Kg |
| 75-09-2 | Methylene Chloride | 8.40 | U | 3.70 | 8.40 | 10.6 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 2.60 | U | 0.91 | 2.60 | 5.30 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 2.60 | U | 0.84 | 2.60 | 5.30 | ug/Kg |
| 110-82-7 | Cyclohexane | 2.60 | U | 0.83 | 2.60 | 5.30 | ug/Kg |
| 78-93-3 | 2-Butanone | 21.1 | U | 6.90 | 21.1 | 26.4 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 2.60 | U | 1.00 | 2.60 | 5.30 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 2.60 | U | 0.79 | 2.60 | 5.30 | ug/Kg |
| 74-97-5 | Bromochloromethane | 4.20 | U | 1.20 | 4.20 | 5.30 | ug/Kg |
| 67-66-3 | Chloroform | 4.20 | U | 0.89 | 4.20 | 5.30 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 2.60 | U | 0.98 | 2.60 | 5.30 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 2.60 | U | 0.96 | 2.60 | 5.30 | ug/Kg |
| 71-43-2 | Benzene | 2.60 | U | 0.83 | 2.60 | 5.30 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 2.60 | U | 0.83 | 2.60 | 5.30 | ug/Kg |
| 79-01-6 | Trichloroethene | 2.60 | U | 0.85 | 2.60 | 5.30 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 2.60 | U | 0.96 | 2.60 | 5.30 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 2.60 | U | 0.82 | 2.60 | 5.30 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 13.2 | U | 3.80 | 13.2 | 26.4 | ug/Kg |
| 108-88-3 | Toluene | 2.60 | U | 0.82 | 2.60 | 5.30 | ug/Kg |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 84SB-W | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-11 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 86.8 |
| Sample Wt/Vol: | 5.46 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023073.D | 1 | 08/13/25 16:30 | VY081325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 2.60 | U | 0.69 | 2.60 | 5.30 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 2.60 | U | 0.65 | 2.60 | 5.30 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 2.60 | U | 0.97 | 2.60 | 5.30 | ug/Kg |
| 591-78-6 | 2-Hexanone | 13.2 | U | 3.90 | 13.2 | 26.4 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 2.60 | U | 0.92 | 2.60 | 5.30 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 2.60 | U | 0.93 | 2.60 | 5.30 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 2.60 | U | 1.10 | 2.60 | 5.30 | ug/Kg |
| 108-90-7 | Chlorobenzene | 2.60 | U | 0.96 | 2.60 | 5.30 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 2.60 | U | 0.71 | 2.60 | 5.30 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 5.30 | U | 1.30 | 5.30 | 10.6 | ug/Kg |
| 95-47-6 | o-Xylene | 2.60 | U | 0.87 | 2.60 | 5.30 | ug/Kg |
| 100-42-5 | Styrene | 2.60 | U | 0.75 | 2.60 | 5.30 | ug/Kg |
| 75-25-2 | Bromoform | 2.60 | U | 0.91 | 2.60 | 5.30 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 2.60 | U | 0.82 | 2.60 | 5.30 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 2.60 | U | 1.30 | 2.60 | 5.30 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 2.60 | U | 1.80 | 2.60 | 5.30 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 2.60 | U | 1.60 | 2.60 | 5.30 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 2.60 | U | 1.50 | 2.60 | 5.30 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 4.20 | U | 1.90 | 4.20 | 5.30 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.20 | U | 3.10 | 4.20 | 5.30 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 4.20 | U | 3.40 | 4.20 | 5.30 | ug/Kg |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 53.1 | | 71 - 136 | | 106% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 54.4 | | 78 - 119 | | 109% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 49.1 | | 85 - 116 | | 98% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 37.8 | * | 79 - 119 | | 76% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 154000 | 7.707 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 260000 | 8.61 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 197000 | 11.408 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 66800 | 13.34 | | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | | |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 84SB-W | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-11 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 86.8 |
| Sample Wt/Vol: | 5.46 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023073.D | 1 | 08/13/25 16:30 | VY081325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| 1024470-80-1 | 3-Cyclohexyl-1-methyl-1-(2-phenyle | 5.70 | J | | | 2.12 | ug/Kg |
| 000090-12-0 | Naphthalene, 1-methyl- | 7.40 | J | | | 16.2 | ug/Kg |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023073.D
Acq On : 13 Aug 2025 16:30
Operator : SY/MD
Sample : Q2819-11
Misc : 5.46g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-W

Quant Time: Aug 14 01:26:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

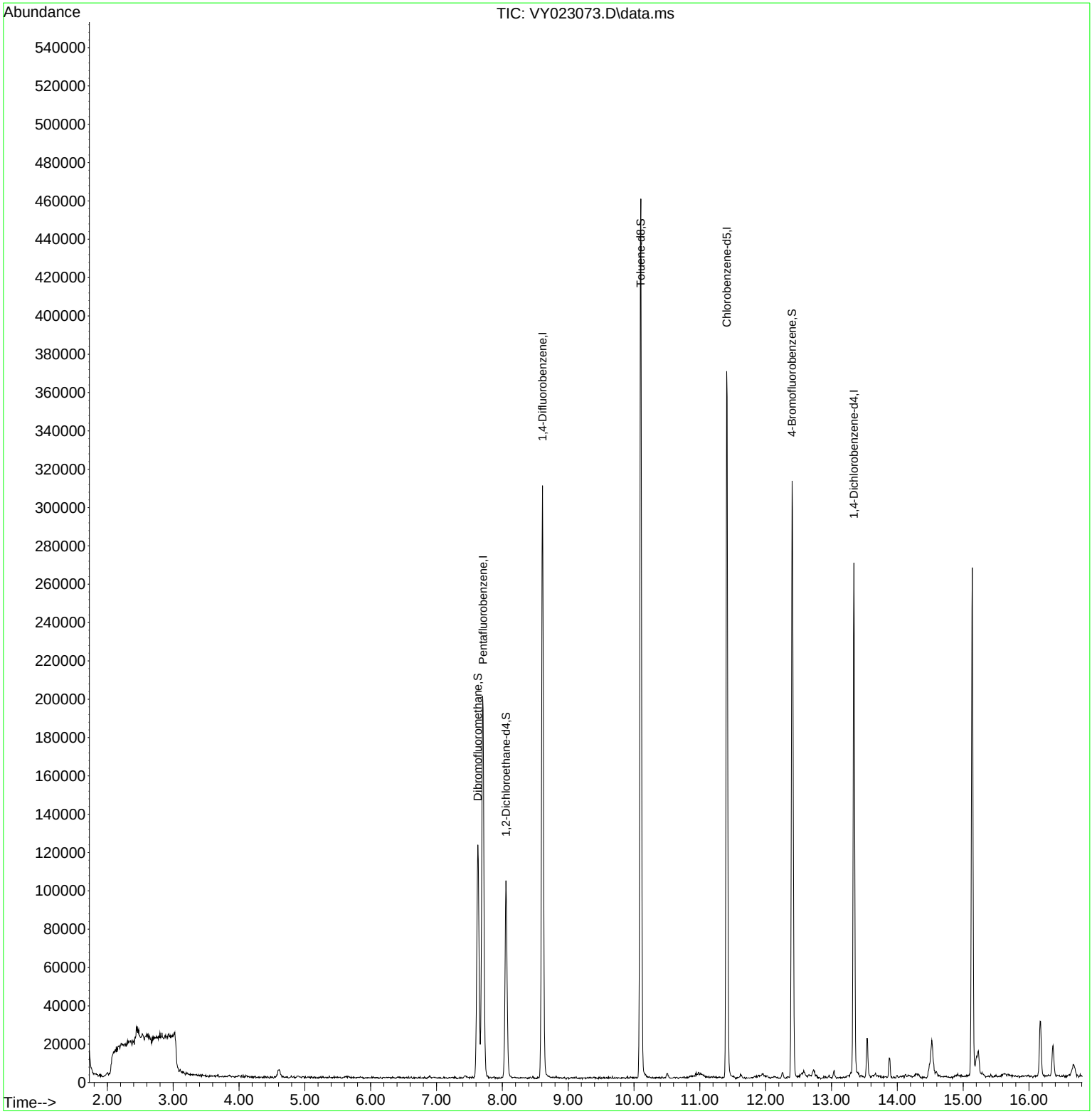
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 153832 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.610 | 114 | 260153 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.408 | 117 | 196566 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 66820 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.055 | 65 | 77906 | 53.137 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 106.280% | | | |
| 35) Dibromofluoromethane | 7.628 | 113 | 84686 | 54.402 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 108.800% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 298869 | 49.146 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 98.300% | | | |
| 62) 4-Bromofluorobenzene | 12.402 | 95 | 73961 | 37.818 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 75.640% | | | |
| Target Compounds | | | | | | Qvalue |

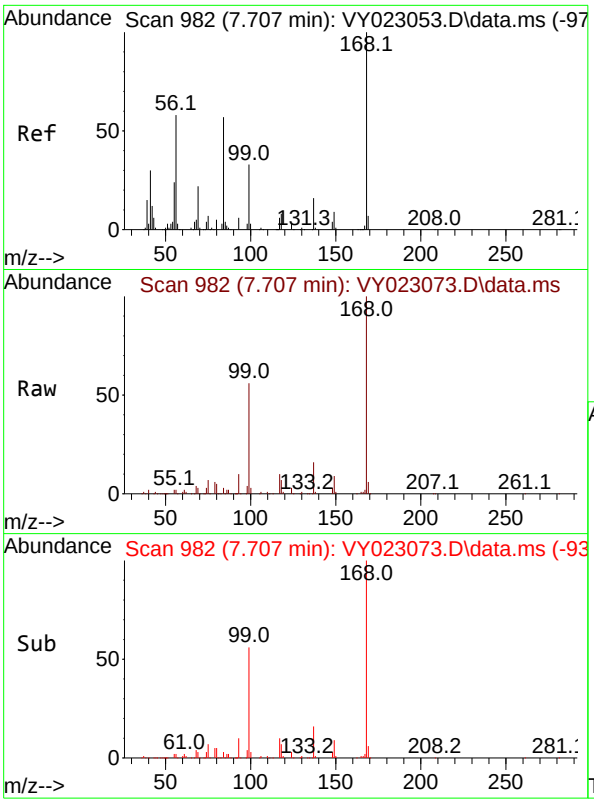
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023073.D
Acq On : 13 Aug 2025 16:30
Operator : SY/MD
Sample : Q2819-11
Misc : 5.46g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-W

Quant Time: Aug 14 01:26:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



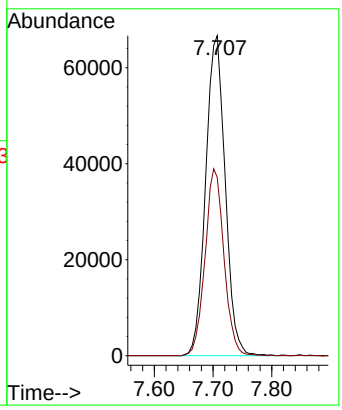


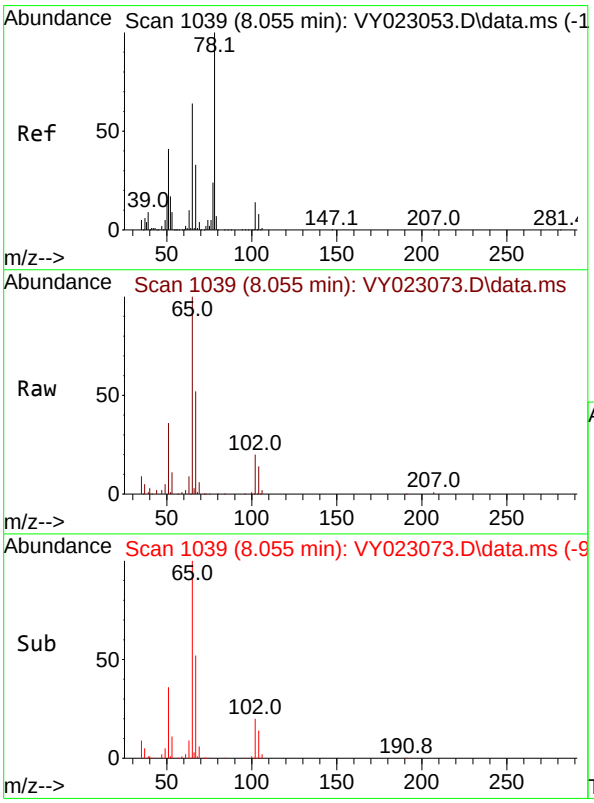

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023073.D
Acq: 13 Aug 2025 16:30

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-W

Tgt Ion:168 Resp: 153832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 55.7 | 42.8 | 64.2 |

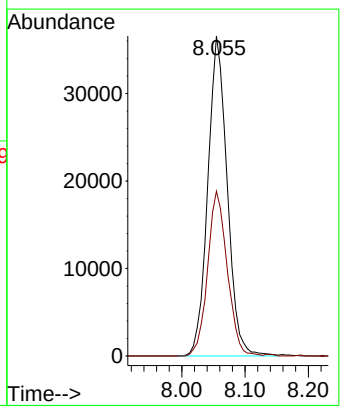


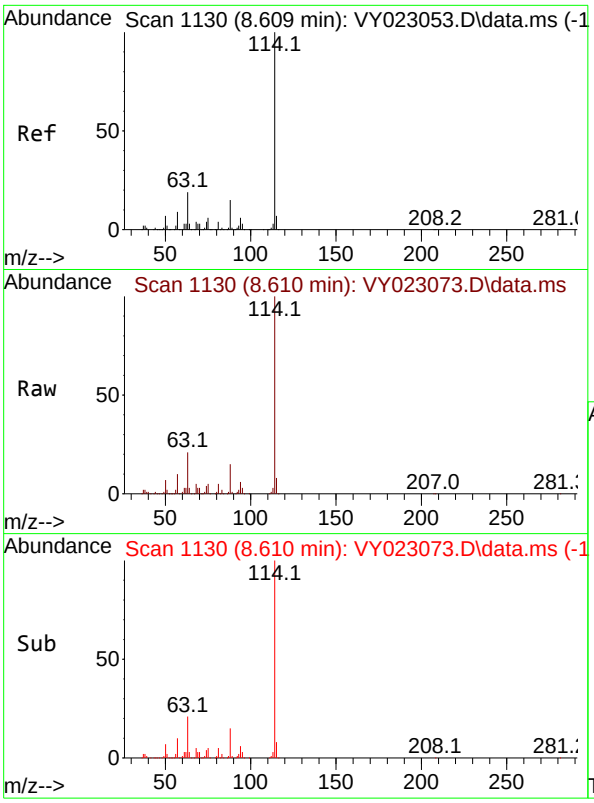




#33
1,2-Dichloroethane-d4
Concen: 53.137 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. 0.000 min
Lab File: VY023073.D
Acq: 13 Aug 2025 16:30

Tgt Ion: 65 Resp: 77906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.1 | 0.0 | 106.8 |



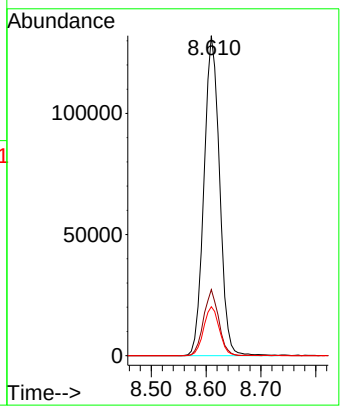


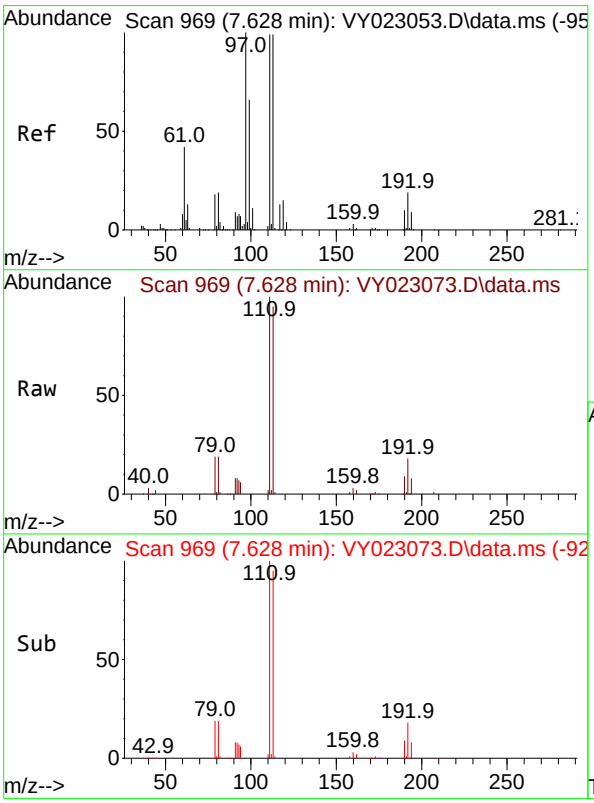

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023073.D
Acq: 13 Aug 2025 16:30

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-W

Tgt Ion:114 Resp: 260153

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.7 | 0.0 | 38.4 |
| 88 | 15.3 | 0.0 | 30.0 |

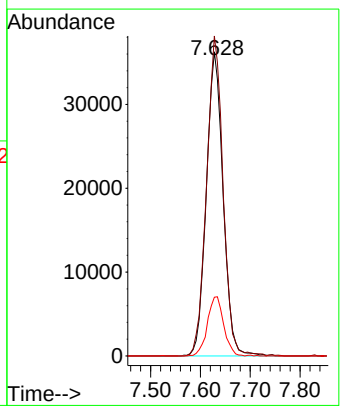


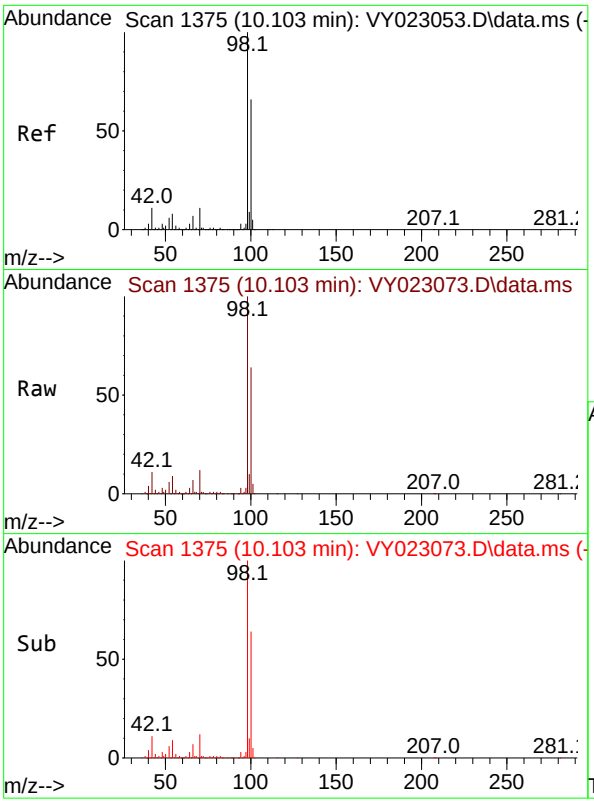




#35
Dibromofluoromethane
Concen: 54.402 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.000 min
Lab File: VY023073.D
Acq: 13 Aug 2025 16:30

Tgt Ion:113 Resp: 84686

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.9 | 81.1 | 121.7 |
| 192 | 19.0 | 16.2 | 24.4 |



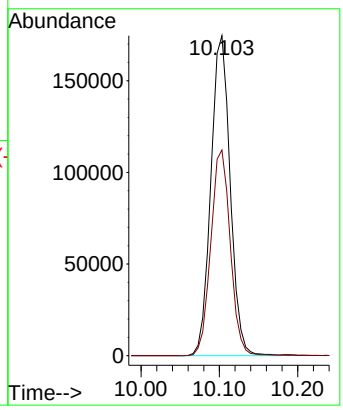


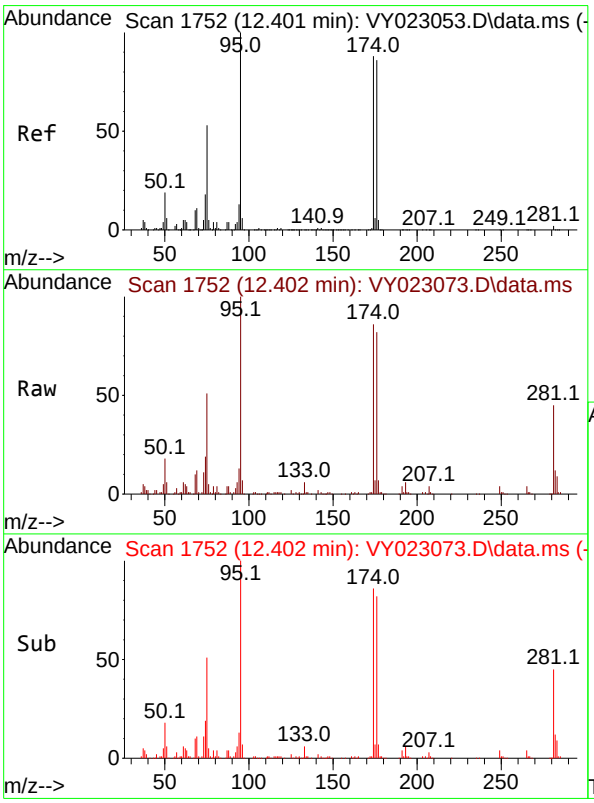

#50
Toluene-d8
Concen: 49.146 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023073.D
Acq: 13 Aug 2025 16:30

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-W

Tgt Ion: 98 Resp: 298869

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.9 | 52.3 | 78.5 |

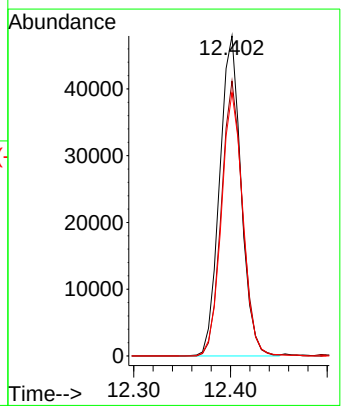


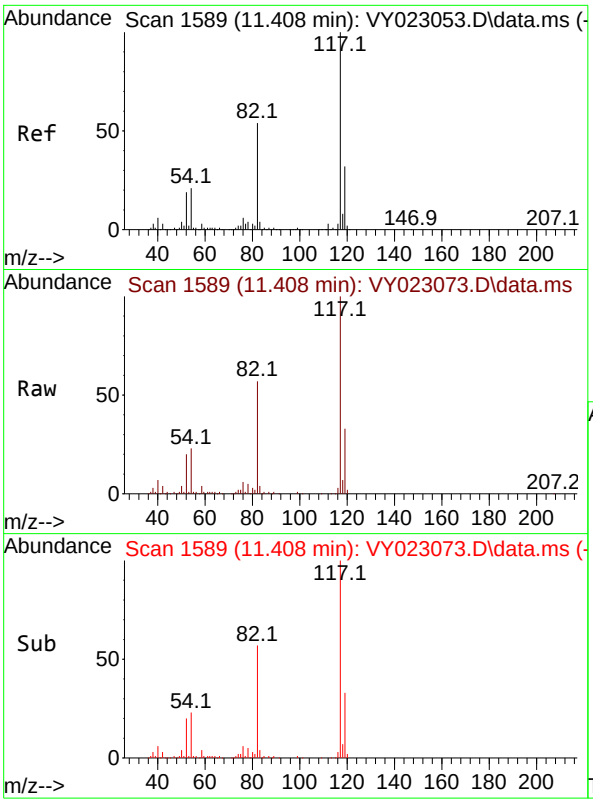




#62
4-Bromofluorobenzene
Concen: 37.818 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023073.D
Acq: 13 Aug 2025 16:30

Tgt Ion: 95 Resp: 73961

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 84.2 | 0.0 | 171.6 |
| 176 | 82.3 | 0.0 | 167.6 |



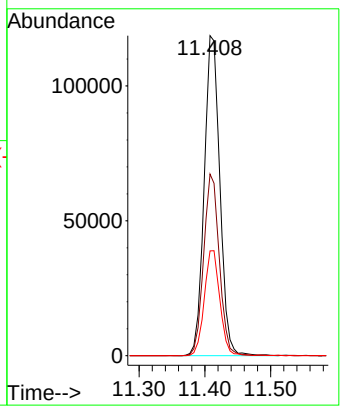


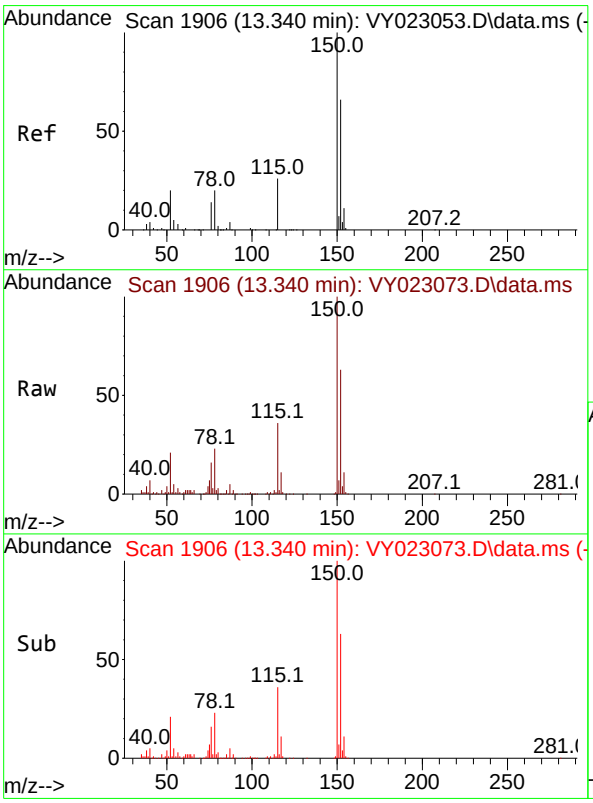

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023073.D
Acq: 13 Aug 2025 16:30

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-W

Tgt Ion:117 Resp: 196566

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 56.7 | 43.4 | 65.0 |
| 119 | 32.8 | 25.6 | 38.4 |

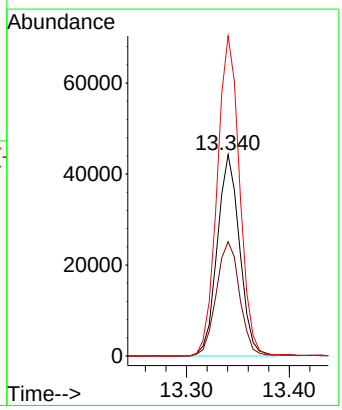



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023073.D
Acq: 13 Aug 2025 16:30

Tgt Ion:152 Resp: 66820

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 59.8 | 28.2 | 84.6 |
| 150 | 159.5 | 0.0 | 348.0 |



Sample Results: **VY023073.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023073.D
Acq On : 13 Aug 2025 16:30
Operator : SY/MD
Sample : Q2819-11
Misc : 5.46g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-W

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Title : SW846 8260

Signal : TIC: VY023073.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.123 | 52 | 66 | 67 | rBV5 | 12637 | 48960 | 6.15% | 1.030% |
| 2 | 2.452 | 113 | 120 | 121 | rBV3 | 9519 | 17172 | 2.16% | 0.361% |
| 3 | 7.628 | 959 | 969 | 975 | rBV | 121692 | 285931 | 35.94% | 6.018% |
| 4 | 7.701 | 975 | 981 | 992 | rVB | 198773 | 456479 | 57.37% | 9.607% |
| 5 | 8.055 | 1028 | 1039 | 1051 | rBV | 103013 | 222683 | 27.99% | 4.687% |
| 6 | 8.610 | 1121 | 1130 | 1140 | rBV | 309158 | 609022 | 76.55% | 12.818% |
| 7 | 10.103 | 1366 | 1375 | 1386 | rBV | 458870 | 795624 | 100.00% | 16.745% |
| 8 | 11.408 | 1582 | 1589 | 1600 | rBV | 368562 | 614721 | 77.26% | 12.938% |
| 9 | 12.402 | 1745 | 1752 | 1763 | rBV2 | 311422 | 586409 | 73.70% | 12.342% |
| 10 | 13.340 | 1899 | 1906 | 1915 | rBV | 266343 | 412886 | 51.89% | 8.690% |
| 11 | 13.542 | 1933 | 1939 | 1947 | rBV2 | 20736 | 35470 | 4.46% | 0.747% |
| 12 | 13.877 | 1988 | 1994 | 1999 | rBV2 | 10343 | 17174 | 2.16% | 0.361% |
| 13 | 14.523 | 2087 | 2100 | 2108 | rBV4 | 19761 | 63689 | 8.00% | 1.340% |
| 14 | 15.139 | 2194 | 2201 | 2208 | rBV | 264896 | 435255 | 54.71% | 9.161% |
| 15 | 15.230 | 2208 | 2216 | 2224 | rVB6 | 12204 | 37229 | 4.68% | 0.784% |
| 16 | 16.169 | 2363 | 2370 | 2378 | rBV | 28733 | 58242 | 7.32% | 1.226% |
| 17 | 16.364 | 2395 | 2402 | 2410 | rVB2 | 16183 | 34023 | 4.28% | 0.716% |
| 18 | 16.669 | 2444 | 2452 | 2461 | rVB7 | 6081 | 20454 | 2.57% | 0.430% |

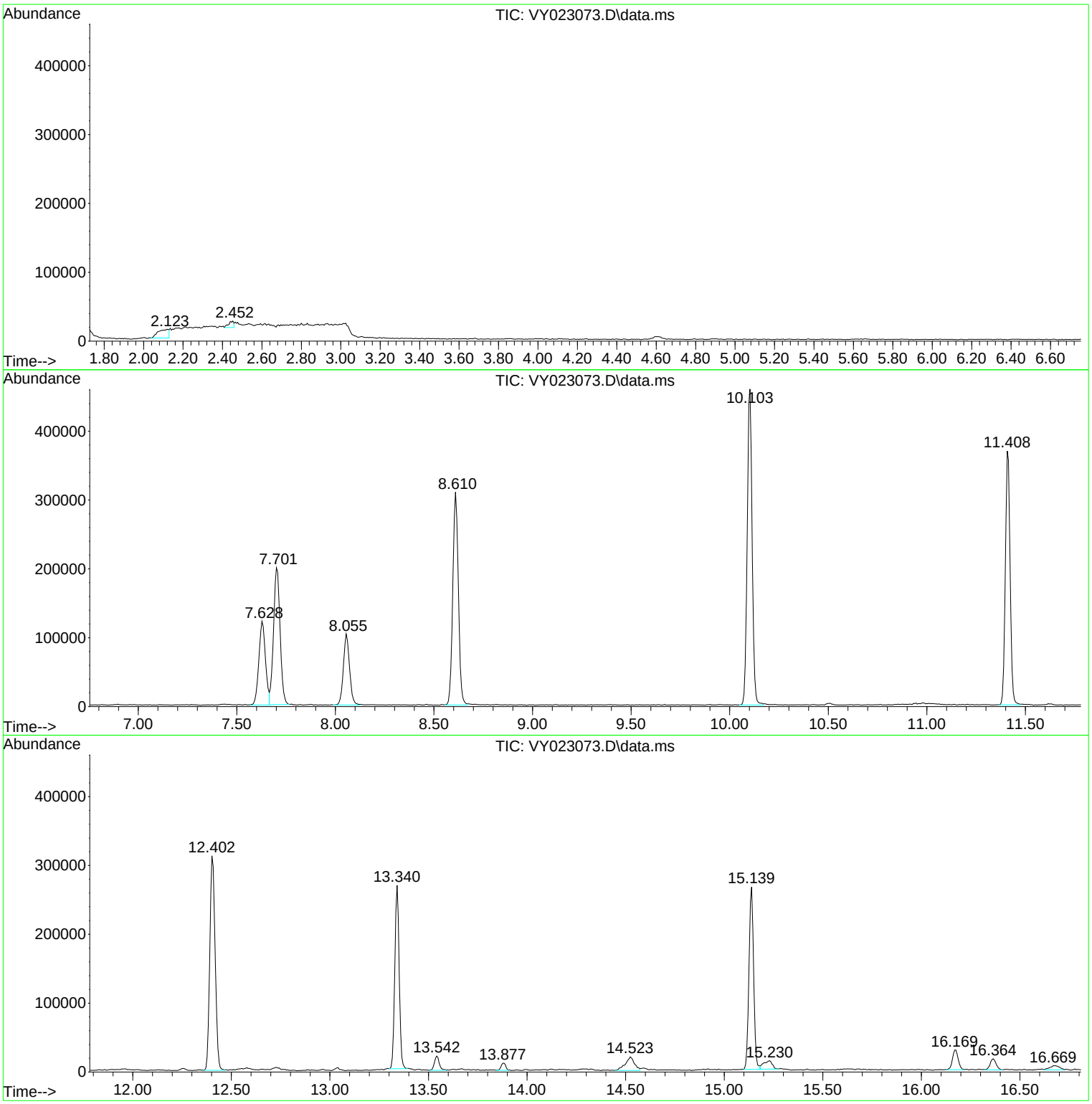
Sum of corrected areas: 4751423

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023073.D
Acq On : 13 Aug 2025 16:30
Operator : SY/MD
Sample : Q2819-11
Misc : 5.46g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023073.D
Acq On : 13 Aug 2025 16:30
Operator : SY/MD
Sample : Q2819-11
Misc : 5.46g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-W

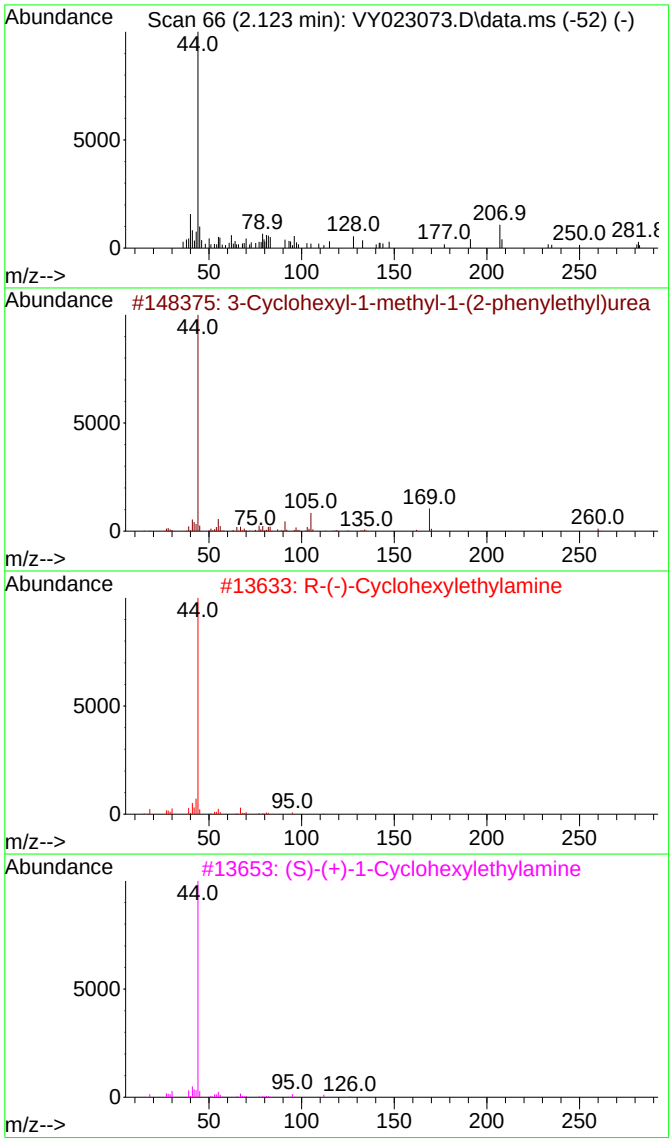
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

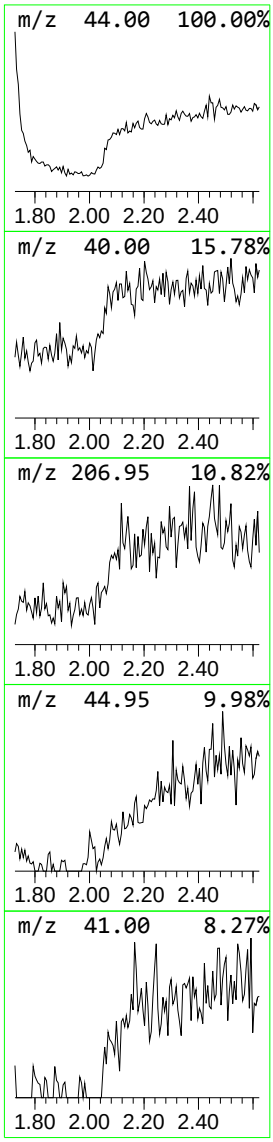
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 1 3-Cyclohexyl-1-methyl-1-(2-... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.123 | 5.36 ug/l | 48960 | Pentafluorobenzene | 7.707 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Cyclohexyl-1-methyl-1-(2-pheny... | 260 | C16H24N2O | 1024470-80-1 | 50 |
| 2 | R-(-)-Cyclohexylethylamine | 127 | C8H17N | 005913-13-3 | 40 |
| 3 | (S)-(+)-1-Cyclohexylethylamine | 127 | C8H17N | 017430-98-7 | 40 |
| 4 | 2-Butanamine, (S)- | 73 | C4H11N | 000513-49-5 | 40 |
| 5 | 2-Iodohiistidine | 281 | C6H8IN3O2 | 006996-15-2 | 38 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023073.D
Acq On : 13 Aug 2025 16:30
Operator : SY/MD
Sample : Q2819-11
Misc : 5.46g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

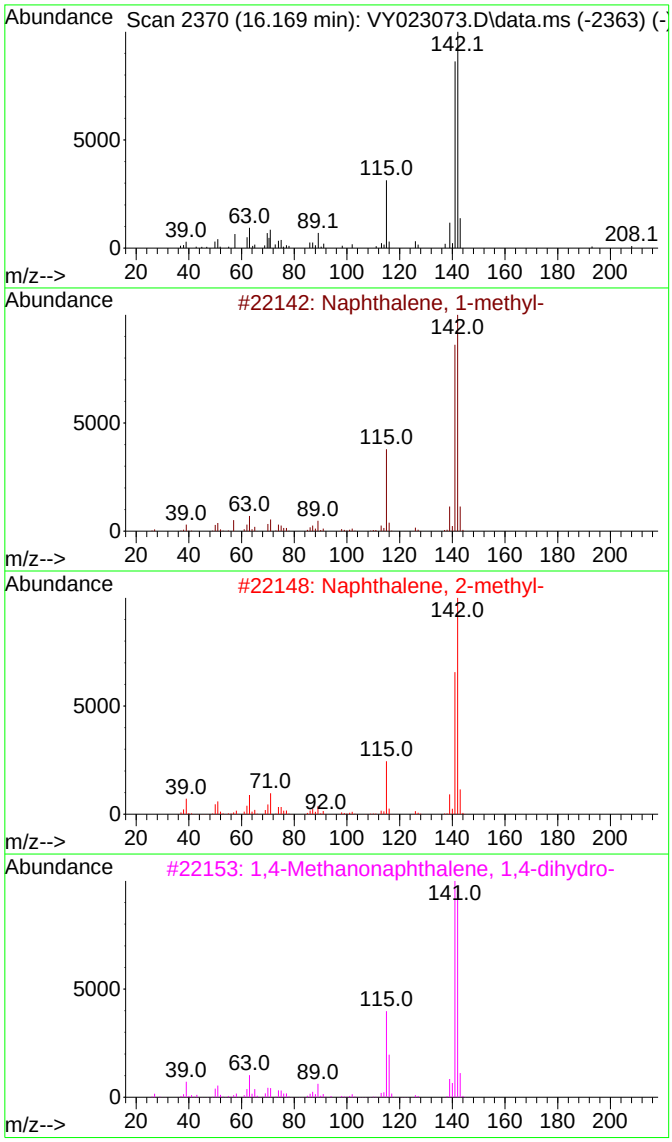
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

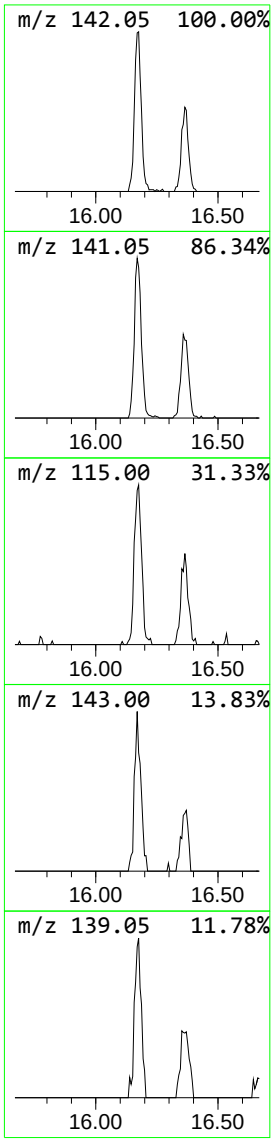
**********

Peak Number 4 Naphthalene, 1-methyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.169 | 7.05 ug/l | 58242 | 1,4-Dichlorobenzene-d4 | 13.340 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 95 |
| 2 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 95 |
| 3 | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10 | 004453-90-1 | 94 |
| 4 | Benzocycloheptatriene | 142 | C11H10 | 000264-09-5 | 91 |
| 5 | Naphthalene, 1-(2-hydroxypropyl) | 186 | C13H14O | 027653-13-0 | 64 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023073.D
Acq On : 13 Aug 2025 16:30
Operator : SY/MD
Sample : Q2819-11
Misc : 5.46g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| 3-Cyclohexyl-1-... | 2.123 | 5.4 | ug/l | 48960 | 1 | 7.707 | 456479 | 50.0 |
| Naphthalene, 1-... | 16.169 | 7.0 | ug/l | 58242 | 4 | 13.340 | 412886 | 50.0 |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 84SB-WRE | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-11RE | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 86.8 |
| Sample Wt/Vol: | 6.93 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023090.D | 1 | 08/14/25 13:13 | VY081425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 3.30 | U | 0.95 | 3.30 | 4.20 | ug/Kg |
| 74-87-3 | Chloromethane | 2.10 | U | 0.95 | 2.10 | 4.20 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 2.10 | U | 0.66 | 2.10 | 4.20 | ug/Kg |
| 74-83-9 | Bromomethane | 3.30 | U | 0.89 | 3.30 | 4.20 | ug/Kg |
| 75-00-3 | Chloroethane | 2.10 | U | 1.00 | 2.10 | 4.20 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 3.30 | U | 1.00 | 3.30 | 4.20 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 2.10 | U | 0.88 | 2.10 | 4.20 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 2.10 | U | 0.83 | 2.10 | 4.20 | ug/Kg |
| 67-64-1 | Acetone | 16.6 | U | 3.90 | 16.6 | 20.8 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 3.30 | U | 0.88 | 3.30 | 4.20 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 2.10 | U | 0.61 | 2.10 | 4.20 | ug/Kg |
| 79-20-9 | Methyl Acetate | 3.30 | U | 1.30 | 3.30 | 4.20 | ug/Kg |
| 75-09-2 | Methylene Chloride | 6.60 | U | 2.90 | 6.60 | 8.30 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 2.10 | U | 0.71 | 2.10 | 4.20 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 2.10 | U | 0.66 | 2.10 | 4.20 | ug/Kg |
| 110-82-7 | Cyclohexane | 2.10 | U | 0.66 | 2.10 | 4.20 | ug/Kg |
| 78-93-3 | 2-Butanone | 16.6 | U | 5.40 | 16.6 | 20.8 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 2.10 | U | 0.81 | 2.10 | 4.20 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 2.10 | U | 0.62 | 2.10 | 4.20 | ug/Kg |
| 74-97-5 | Bromochloromethane | 3.30 | U | 0.96 | 3.30 | 4.20 | ug/Kg |
| 67-66-3 | Chloroform | 3.30 | U | 0.70 | 3.30 | 4.20 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 2.10 | U | 0.77 | 2.10 | 4.20 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 2.10 | U | 0.76 | 2.10 | 4.20 | ug/Kg |
| 71-43-2 | Benzene | 2.10 | U | 0.66 | 2.10 | 4.20 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 2.10 | U | 0.66 | 2.10 | 4.20 | ug/Kg |
| 79-01-6 | Trichloroethene | 2.10 | U | 0.67 | 2.10 | 4.20 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 2.10 | U | 0.76 | 2.10 | 4.20 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 2.10 | U | 0.65 | 2.10 | 4.20 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 10.4 | U | 3.00 | 10.4 | 20.8 | ug/Kg |
| 108-88-3 | Toluene | 2.10 | U | 0.65 | 2.10 | 4.20 | ug/Kg |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 84SB-WRE | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-11RE | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 86.8 |
| Sample Wt/Vol: | 6.93 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023090.D | 1 | 08/14/25 13:13 | VY081425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 2.10 | U | 0.54 | 2.10 | 4.20 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 2.10 | U | 0.52 | 2.10 | 4.20 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 2.10 | U | 0.76 | 2.10 | 4.20 | ug/Kg |
| 591-78-6 | 2-Hexanone | 10.4 | U | 3.10 | 10.4 | 20.8 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 2.10 | U | 0.72 | 2.10 | 4.20 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 2.10 | U | 0.73 | 2.10 | 4.20 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 2.10 | U | 0.87 | 2.10 | 4.20 | ug/Kg |
| 108-90-7 | Chlorobenzene | 2.10 | U | 0.76 | 2.10 | 4.20 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 2.10 | U | 0.56 | 2.10 | 4.20 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 4.20 | U | 1.00 | 4.20 | 8.30 | ug/Kg |
| 95-47-6 | o-Xylene | 2.10 | U | 0.68 | 2.10 | 4.20 | ug/Kg |
| 100-42-5 | Styrene | 2.10 | U | 0.59 | 2.10 | 4.20 | ug/Kg |
| 75-25-2 | Bromoform | 2.10 | U | 0.71 | 2.10 | 4.20 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 2.10 | U | 0.65 | 2.10 | 4.20 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 2.10 | U | 1.00 | 2.10 | 4.20 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 2.10 | U | 1.40 | 2.10 | 4.20 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 2.10 | U | 1.30 | 2.10 | 4.20 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 2.10 | U | 1.20 | 2.10 | 4.20 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 3.30 | U | 1.50 | 3.30 | 4.20 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 3.30 | U | 2.50 | 3.30 | 4.20 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 3.30 | U | 2.60 | 3.30 | 4.20 | ug/Kg |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 38.6 | | 71 - 136 | | 77% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 52.7 | | 78 - 119 | | 105% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 46.4 | | 85 - 116 | | 93% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 24.8 | * | 79 - 119 | | 50% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 64700 | 7.707 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 91300 | 8.615 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 57700 | 11.414 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 13400 | 13.346 | | | | |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 84SB-WRE | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-11RE | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 86.8 |
| Sample Wt/Vol: | 6.93 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023090.D | 1 | 08/14/25 13:13 | VY081425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023090.D
Acq On : 14 Aug 2025 13:13
Operator : SY/MD
Sample : Q2819-11RE
Misc : 6.93g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-WRE

Quant Time: Aug 14 14:47:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

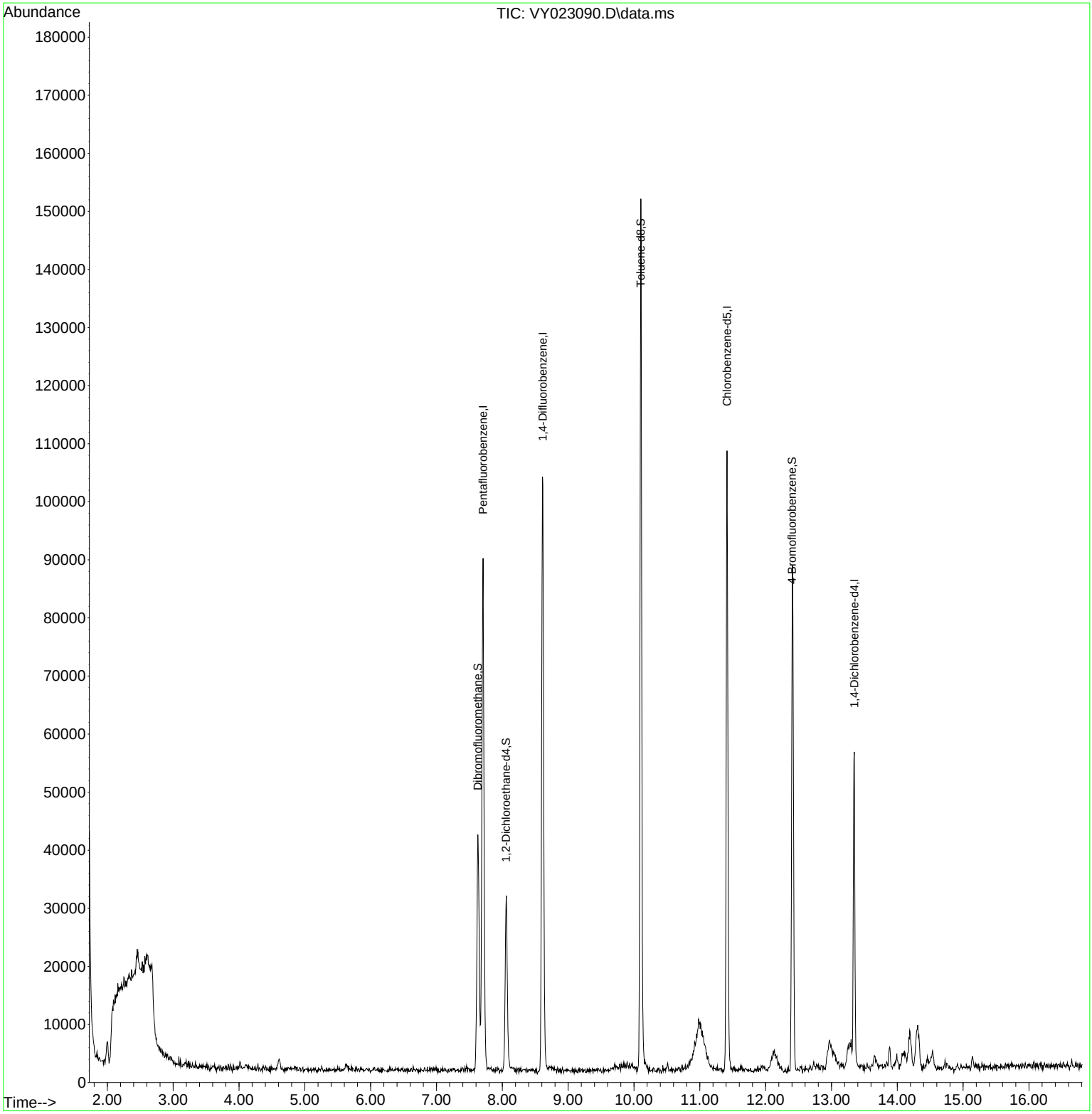
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 64668 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.615 | 114 | 91288 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 57705 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 13403 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.055 | 65 | 23814 | 38.638 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 77.280% | | | |
| 35) Dibromofluoromethane | 7.628 | 113 | 28787 | 52.700 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 105.400% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 99008 | 46.397 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 92.800% | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 17048 | 24.842 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 49.680% | | | |
| Target Compounds | | | | | | Qvalue |

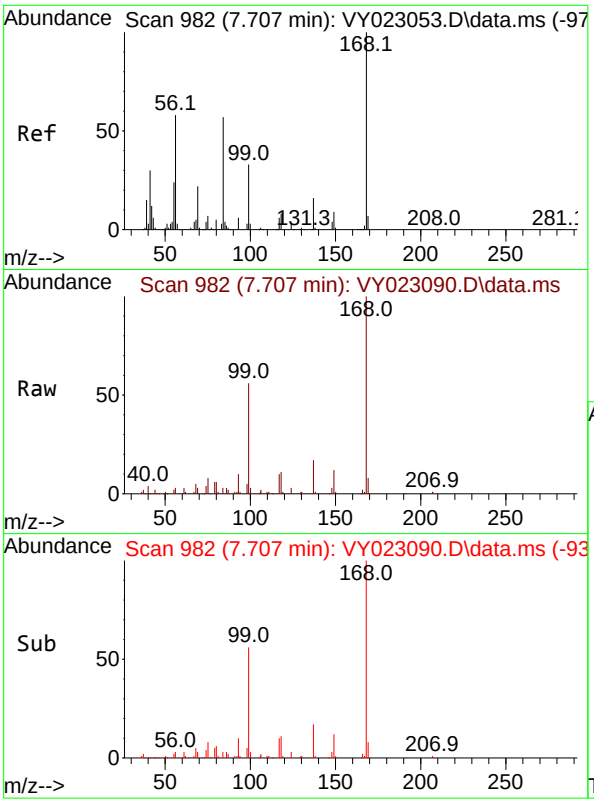
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023090.D
Acq On : 14 Aug 2025 13:13
Operator : SY/MD
Sample : Q2819-11RE
Misc : 6.93g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-WRE

Quant Time: Aug 14 14:47:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



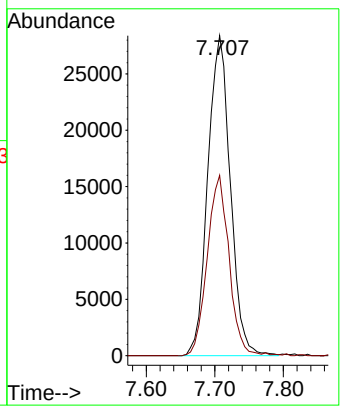


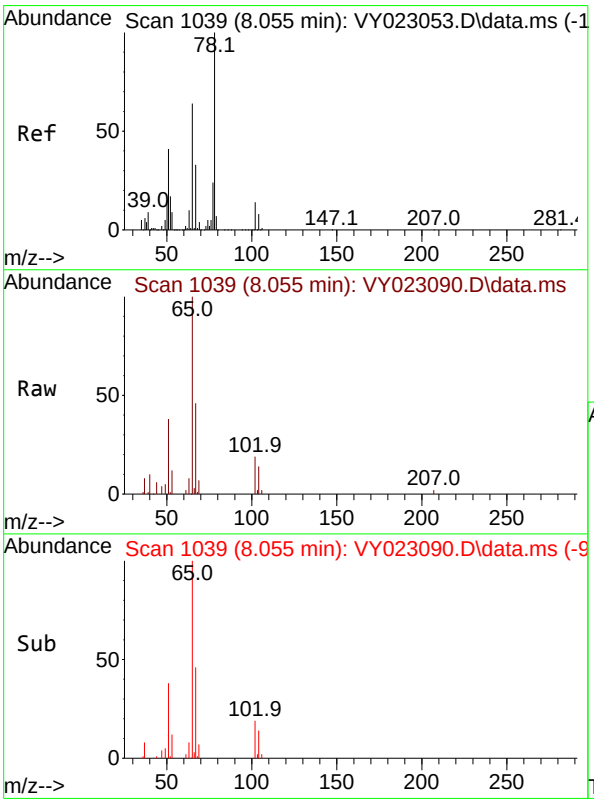

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023090.D
Acq: 14 Aug 2025 13:13

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-WRE

Tgt Ion:168 Resp: 64668

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 56.3 | 42.8 | 64.2 |

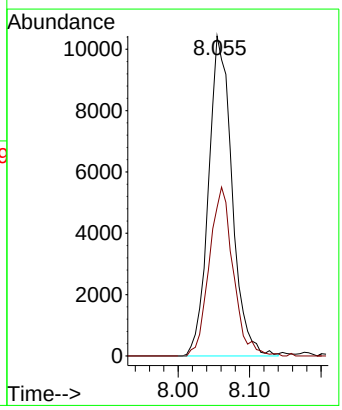


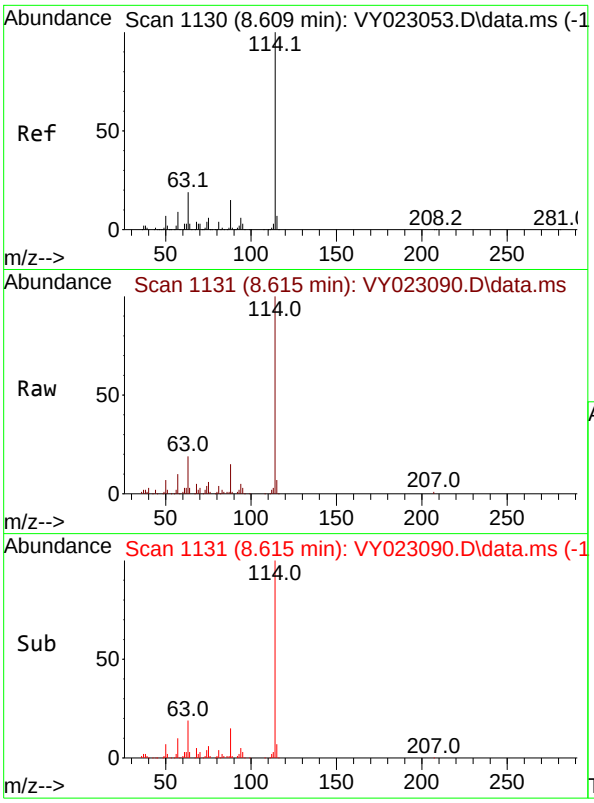




#33
1,2-Dichloroethane-d4
Concen: 38.638 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. -0.000 min
Lab File: VY023090.D
Acq: 14 Aug 2025 13:13

Tgt Ion: 65 Resp: 23814

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.6 | 0.0 | 106.8 |



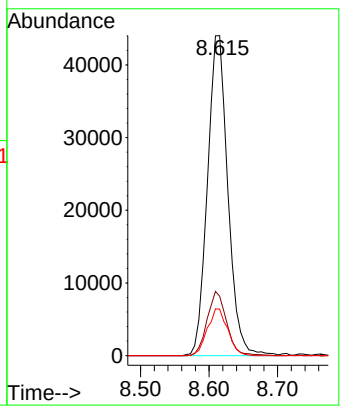


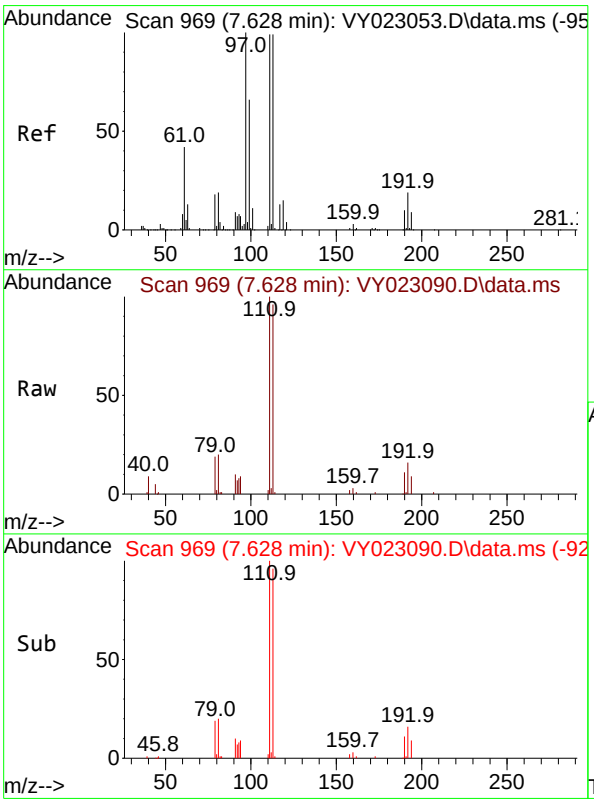

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023090.D
Acq: 14 Aug 2025 13:13

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-WRE

Tgt Ion:114 Resp: 91288

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.6 | 0.0 | 38.4 |
| 88 | 14.5 | 0.0 | 30.0 |

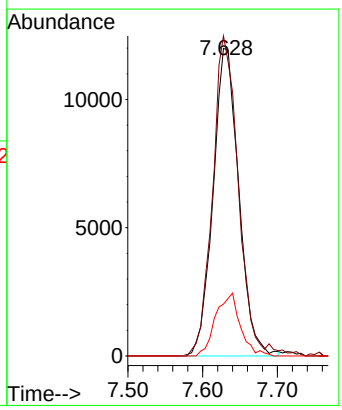


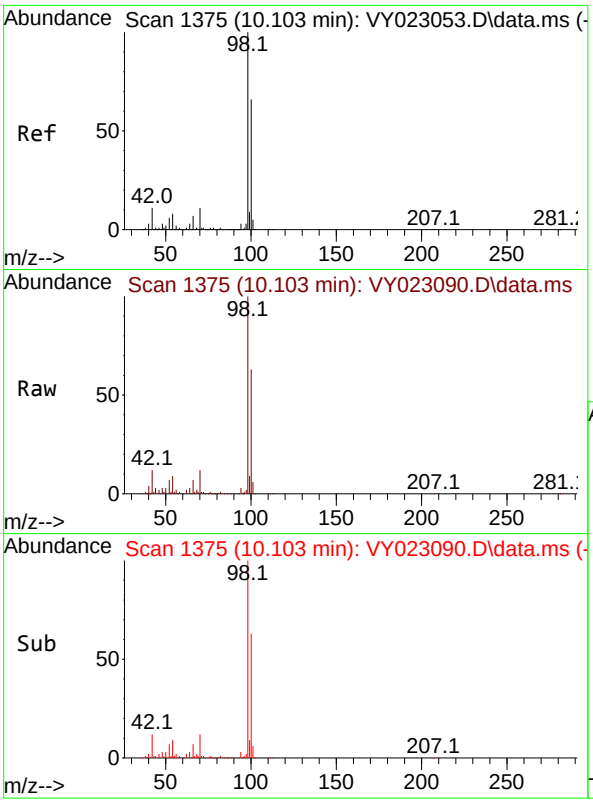




#35
Dibromofluoromethane
Concen: 52.700 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.000 min
Lab File: VY023090.D
Acq: 14 Aug 2025 13:13

Tgt Ion:113 Resp: 28787

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 104.3 | 81.1 | 121.7 |
| 192 | 19.5 | 16.2 | 24.4 |



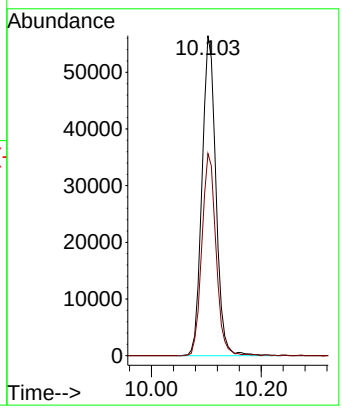


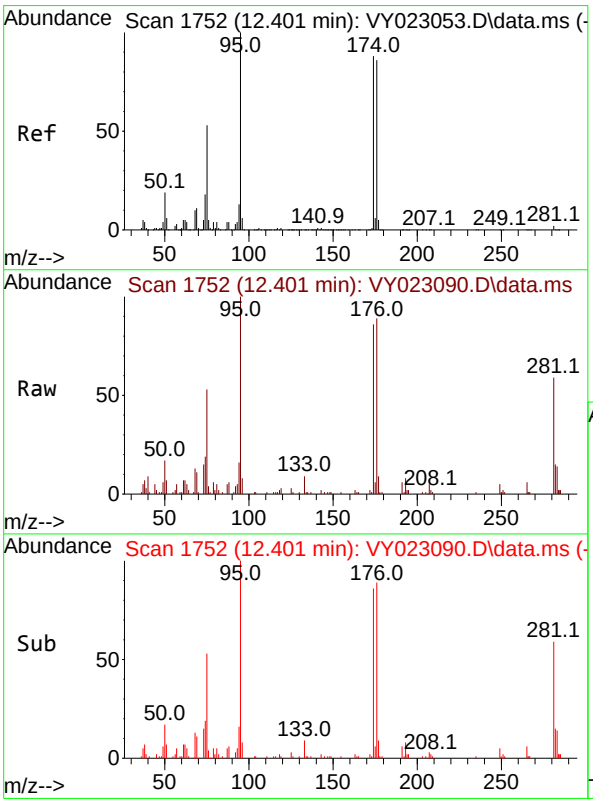

#50
Toluene-d8
Concen: 46.397 ug/l
RT: 10.103 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023090.D
Acq: 14 Aug 2025 13:13

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-WRE

Tgt Ion: 98 Resp: 99008

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.4 | 52.3 | 78.5 |

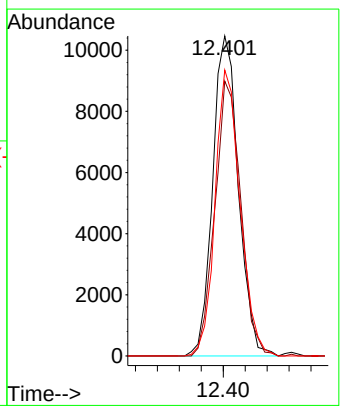


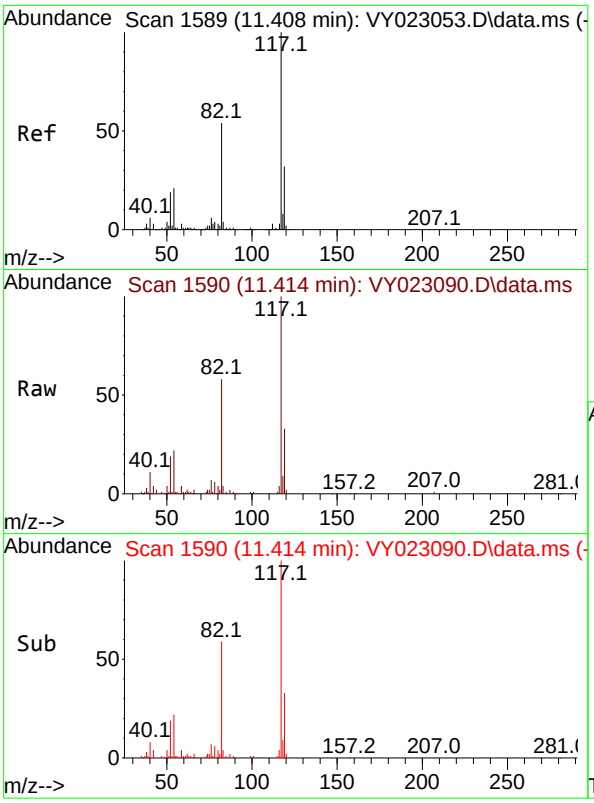




#62
4-Bromofluorobenzene
Concen: 24.842 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023090.D
Acq: 14 Aug 2025 13:13

Tgt Ion: 95 Resp: 17048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 86.3 | 0.0 | 171.6 |
| 176 | 86.9 | 0.0 | 167.6 |



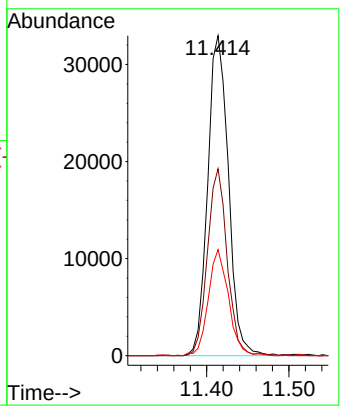


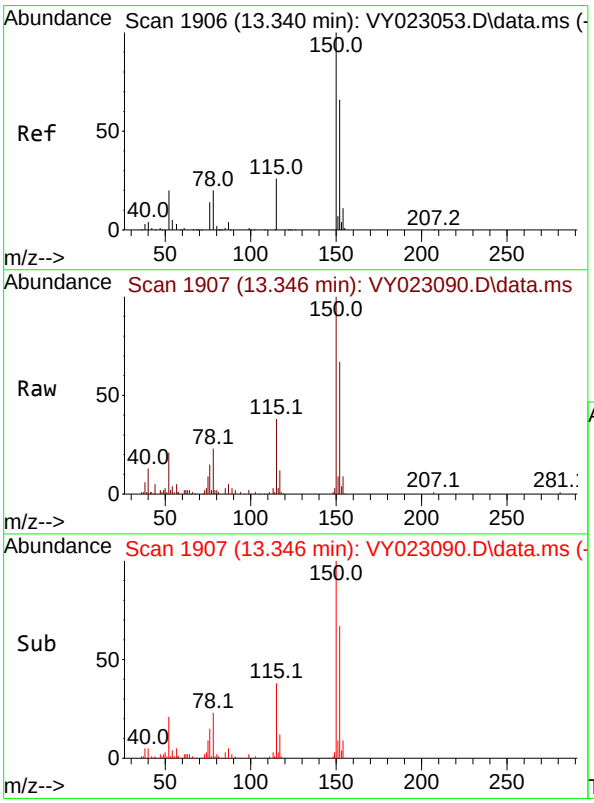

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023090.D
Acq: 14 Aug 2025 13:13

**Instrument :**
MSVOA_Y
**ClientSampleId :**
84SB-WRE

Tgt Ion:117 Resp: 57705

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 58.2 | 43.4 | 65.0 |
| 119 | 33.2 | 25.6 | 38.4 |

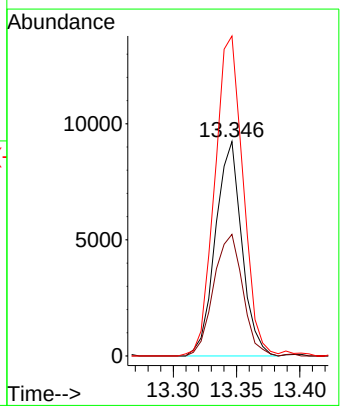



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023090.D
Acq: 14 Aug 2025 13:13

Tgt Ion:152 Resp: 13403

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 62.5 | 28.2 | 84.6 |
| 150 | 159.5 | 0.0 | 348.0 |



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 17M-S | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-12 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 93.4 |
| Sample Wt/Vol: | 6.51 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023074.D | 1 | 08/13/25 16:53 | VY081325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 3.30 | U | 0.94 | 3.30 | 4.10 | ug/Kg |
| 74-87-3 | Chloromethane | 2.10 | U | 0.94 | 2.10 | 4.10 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 2.10 | U | 0.65 | 2.10 | 4.10 | ug/Kg |
| 74-83-9 | Bromomethane | 3.30 | U | 0.88 | 3.30 | 4.10 | ug/Kg |
| 75-00-3 | Chloroethane | 2.10 | U | 1.00 | 2.10 | 4.10 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 3.30 | U | 1.00 | 3.30 | 4.10 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 2.10 | U | 0.87 | 2.10 | 4.10 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 2.10 | U | 0.82 | 2.10 | 4.10 | ug/Kg |
| 67-64-1 | Acetone | 16.4 | U | 3.90 | 16.4 | 20.6 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 3.30 | U | 0.87 | 3.30 | 4.10 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 2.10 | U | 0.60 | 2.10 | 4.10 | ug/Kg |
| 79-20-9 | Methyl Acetate | 3.30 | U | 1.30 | 3.30 | 4.10 | ug/Kg |
| 75-09-2 | Methylene Chloride | 6.60 | U | 2.90 | 6.60 | 8.20 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 2.10 | U | 0.71 | 2.10 | 4.10 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 2.10 | U | 0.66 | 2.10 | 4.10 | ug/Kg |
| 110-82-7 | Cyclohexane | 2.10 | U | 0.65 | 2.10 | 4.10 | ug/Kg |
| 78-93-3 | 2-Butanone | 16.4 | U | 5.40 | 16.4 | 20.6 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 2.10 | U | 0.80 | 2.10 | 4.10 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 2.10 | U | 0.62 | 2.10 | 4.10 | ug/Kg |
| 74-97-5 | Bromochloromethane | 3.30 | U | 0.95 | 3.30 | 4.10 | ug/Kg |
| 67-66-3 | Chloroform | 3.30 | U | 0.69 | 3.30 | 4.10 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 2.10 | U | 0.76 | 2.10 | 4.10 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 2.10 | U | 0.75 | 2.10 | 4.10 | ug/Kg |
| 71-43-2 | Benzene | 2.10 | U | 0.65 | 2.10 | 4.10 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 2.10 | U | 0.65 | 2.10 | 4.10 | ug/Kg |
| 79-01-6 | Trichloroethene | 2.10 | U | 0.67 | 2.10 | 4.10 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 2.10 | U | 0.75 | 2.10 | 4.10 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 2.10 | U | 0.64 | 2.10 | 4.10 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 10.3 | U | 2.90 | 10.3 | 20.6 | ug/Kg |
| 108-88-3 | Toluene | 2.10 | U | 0.64 | 2.10 | 4.10 | ug/Kg |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 17M-S | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-12 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 93.4 |
| Sample Wt/Vol: | 6.51 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023074.D | 1 | 08/13/25 16:53 | VY081325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 2.10 | U | 0.53 | 2.10 | 4.10 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 2.10 | U | 0.51 | 2.10 | 4.10 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 2.10 | U | 0.76 | 2.10 | 4.10 | ug/Kg |
| 591-78-6 | 2-Hexanone | 10.3 | U | 3.00 | 10.3 | 20.6 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 2.10 | U | 0.72 | 2.10 | 4.10 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 2.10 | U | 0.72 | 2.10 | 4.10 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 2.10 | U | 0.86 | 2.10 | 4.10 | ug/Kg |
| 108-90-7 | Chlorobenzene | 2.10 | U | 0.75 | 2.10 | 4.10 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 2.10 | U | 0.55 | 2.10 | 4.10 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 4.10 | U | 1.00 | 4.10 | 8.20 | ug/Kg |
| 95-47-6 | o-Xylene | 2.10 | U | 0.67 | 2.10 | 4.10 | ug/Kg |
| 100-42-5 | Styrene | 2.10 | U | 0.58 | 2.10 | 4.10 | ug/Kg |
| 75-25-2 | Bromoform | 2.10 | U | 0.71 | 2.10 | 4.10 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 2.10 | U | 0.64 | 2.10 | 4.10 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 2.10 | U | 1.00 | 2.10 | 4.10 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 2.10 | U | 1.40 | 2.10 | 4.10 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 2.10 | U | 1.30 | 2.10 | 4.10 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 2.10 | U | 1.20 | 2.10 | 4.10 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 3.30 | U | 1.50 | 3.30 | 4.10 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 3.30 | U | 2.40 | 3.30 | 4.10 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 3.30 | U | 2.60 | 3.30 | 4.10 | ug/Kg |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 62.1 | | 71 - 136 | | 124% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 53.7 | | 78 - 119 | | 107% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 52.3 | | 85 - 116 | | 105% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 48.5 | | 79 - 119 | | 97% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 490000 | 7.707 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 944000 | 8.609 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 839000 | 11.408 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 345000 | 13.34 | | | | |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 17M-S | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-12 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 93.4 |
| Sample Wt/Vol: | 6.51 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023074.D | 1 | 08/13/25 16:53 | VY081325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023074.D
Acq On : 13 Aug 2025 16:53
Operator : SY/MD
Sample : Q2819-12
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
17M-S

Quant Time: Aug 14 01:26:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

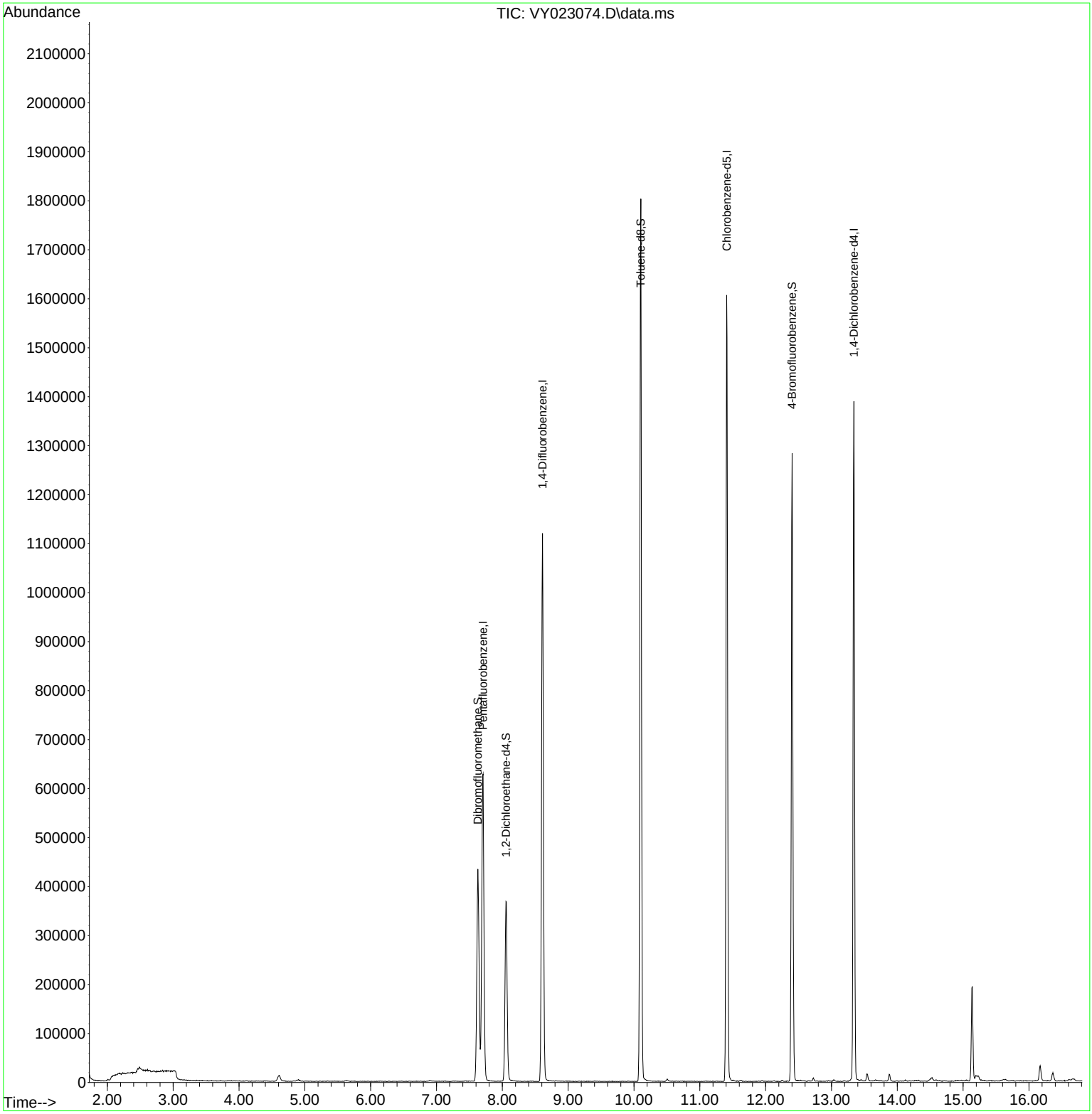
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 489566 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.609 | 114 | 943748 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.408 | 117 | 838550 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 344922 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.055 | 65 | 289607 | 62.069 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 124.140% | | | |
| 35) Dibromofluoromethane | 7.628 | 113 | 303187 | 53.689 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 107.380% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 1154374 | 52.327 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 104.660% | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 344204 | 48.516 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 97.040% | | | |
| Target Compounds | | | | | | Qvalue |

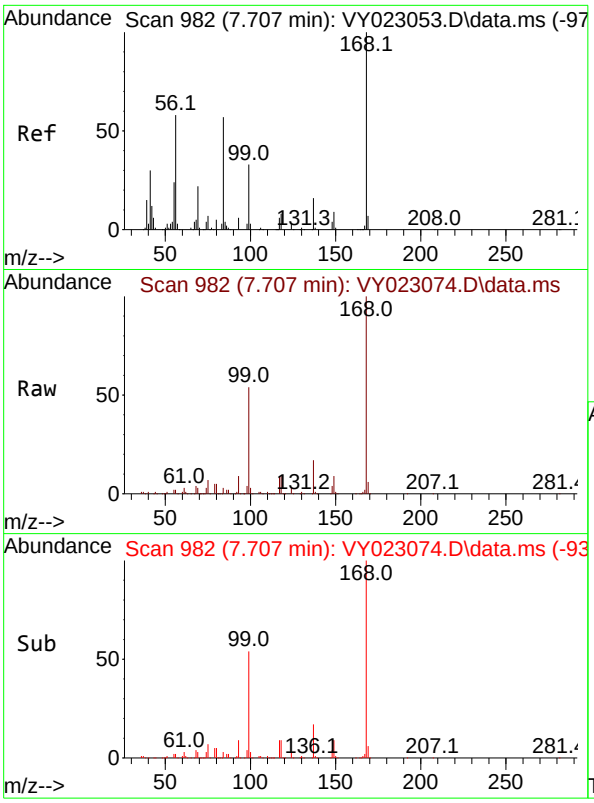
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023074.D
Acq On : 13 Aug 2025 16:53
Operator : SY/MD
Sample : Q2819-12
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
17M-S

Quant Time: Aug 14 01:26:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



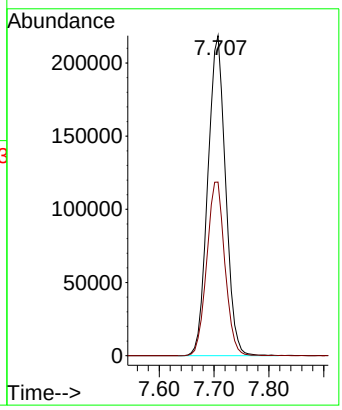


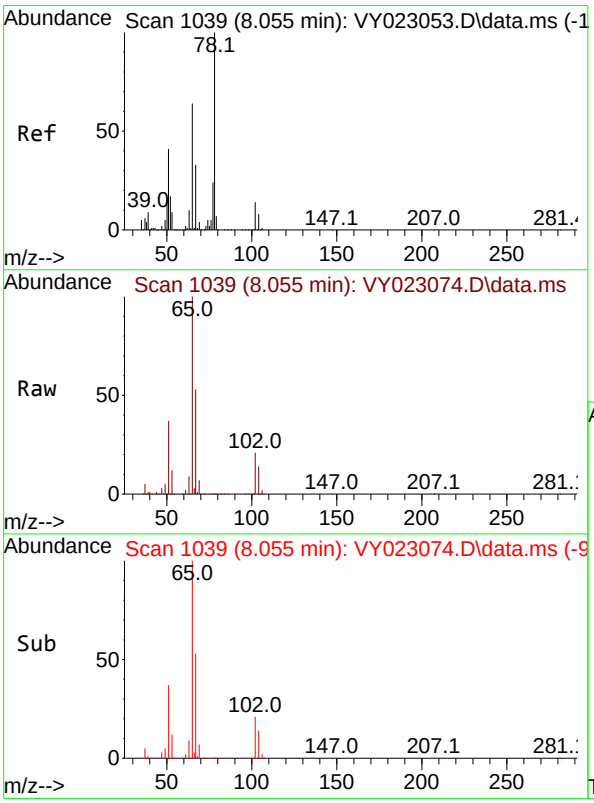

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023074.D
Acq: 13 Aug 2025 16:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
17M-S

Tgt Ion:168 Resp: 489566

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 54.3 | 42.8 | 64.2 |

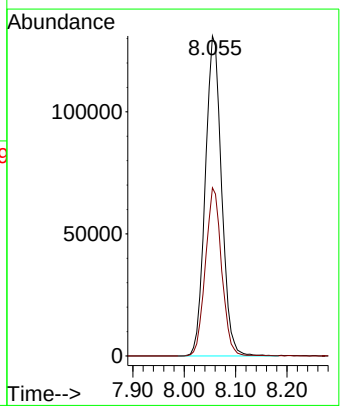


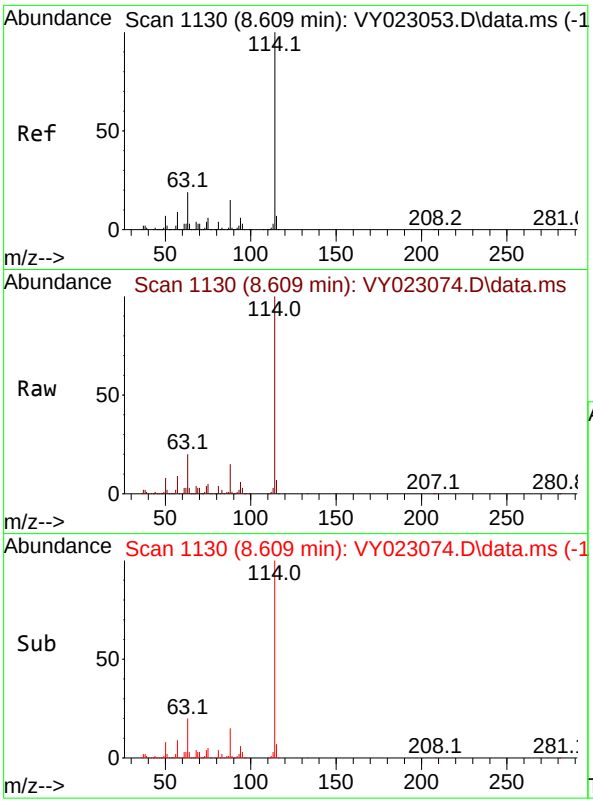




#33
1,2-Dichloroethane-d4
Concen: 62.069 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. 0.000 min
Lab File: VY023074.D
Acq: 13 Aug 2025 16:53

Tgt Ion: 65 Resp: 289607

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.3 | 0.0 | 106.8 |



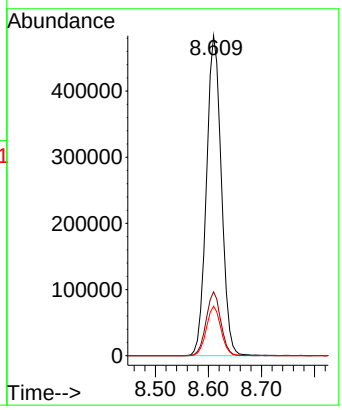


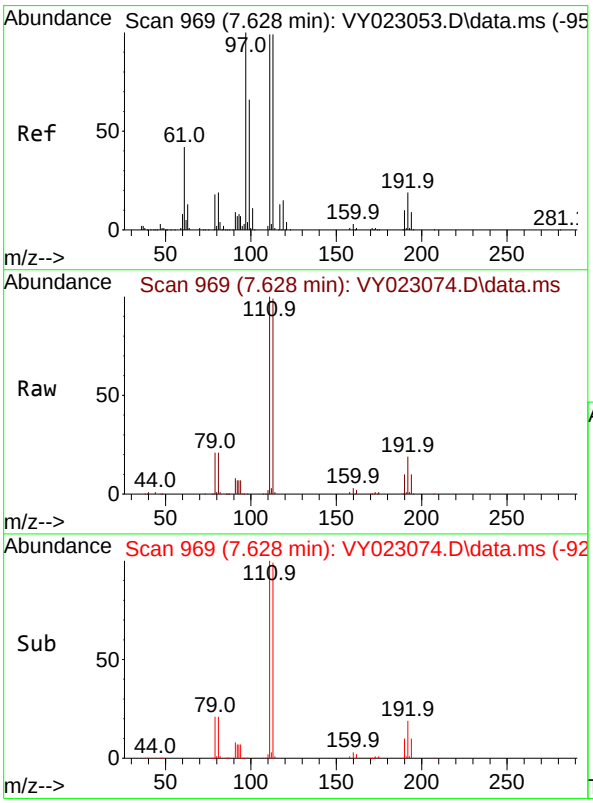

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023074.D
Acq: 13 Aug 2025 16:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
17M-S

Tgt Ion:114 Resp: 943748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.9 | 0.0 | 38.4 |
| 88 | 15.5 | 0.0 | 30.0 |

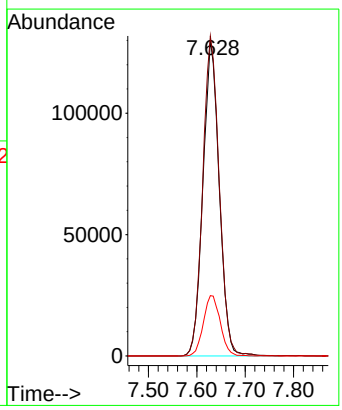


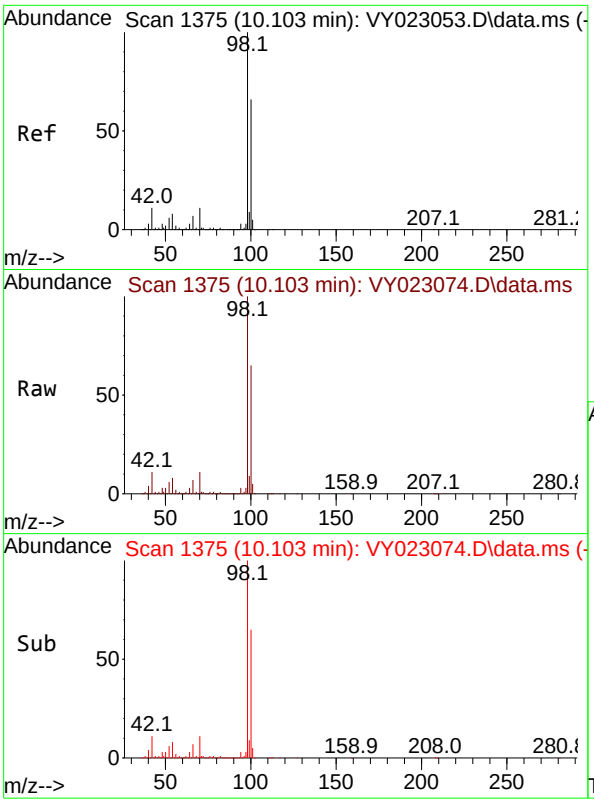




#35
Dibromofluoromethane
Concen: 53.689 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.000 min
Lab File: VY023074.D
Acq: 13 Aug 2025 16:53

Tgt Ion:113 Resp: 303187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.1 | 81.1 | 121.7 |
| 192 | 19.9 | 16.2 | 24.4 |



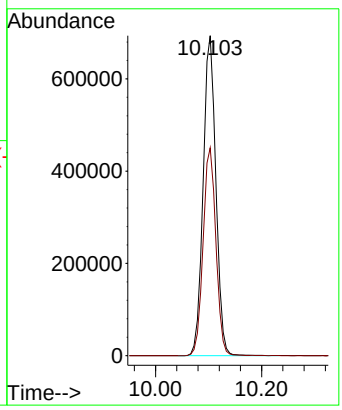


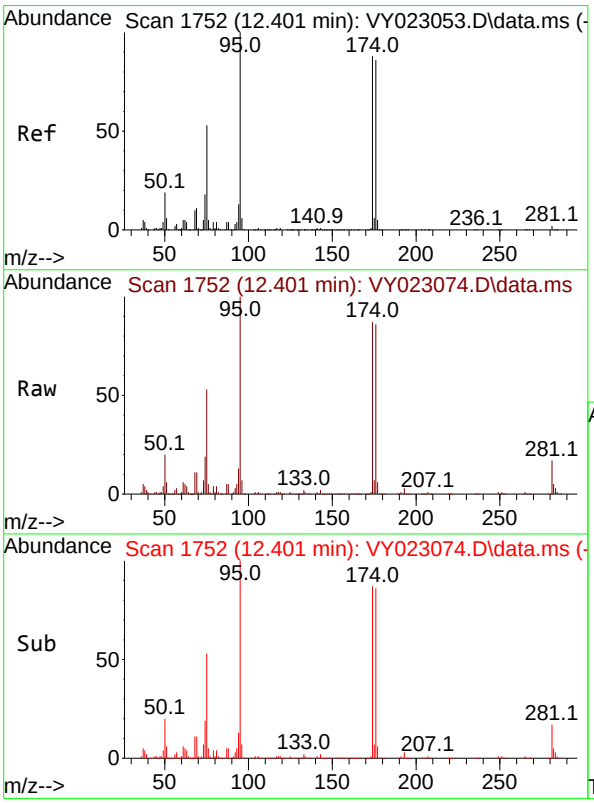

#50
Toluene-d8
Concen: 52.327 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023074.D
Acq: 13 Aug 2025 16:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
17M-S

Tgt Ion: 98 Resp: 1154374

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.3 | 52.3 | 78.5 |

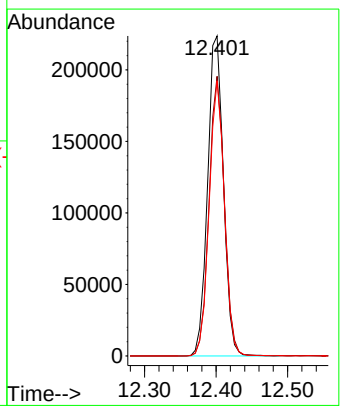


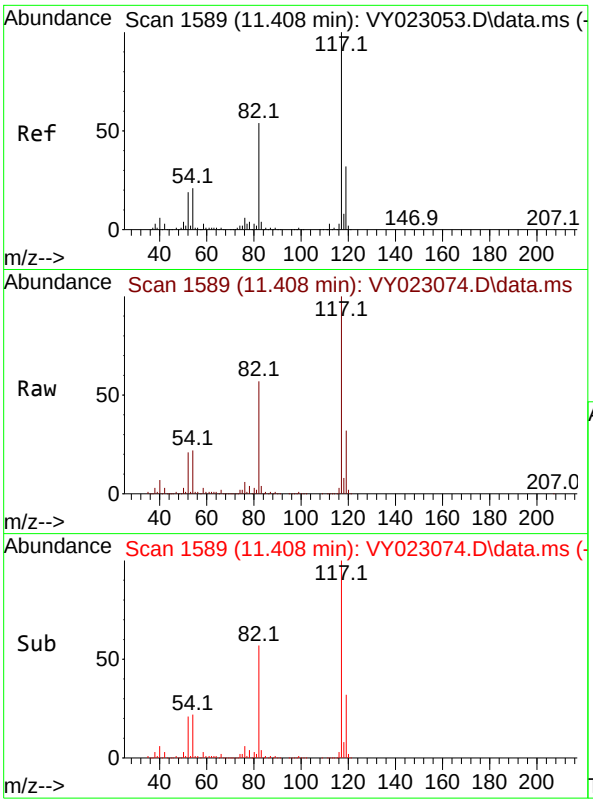




#62
4-Bromofluorobenzene
Concen: 48.516 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023074.D
Acq: 13 Aug 2025 16:53

Tgt Ion: 95 Resp: 344204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 85.0 | 0.0 | 171.6 |
| 176 | 82.7 | 0.0 | 167.6 |



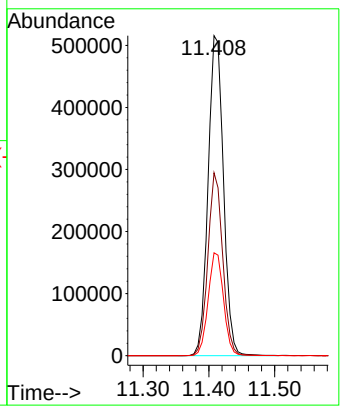


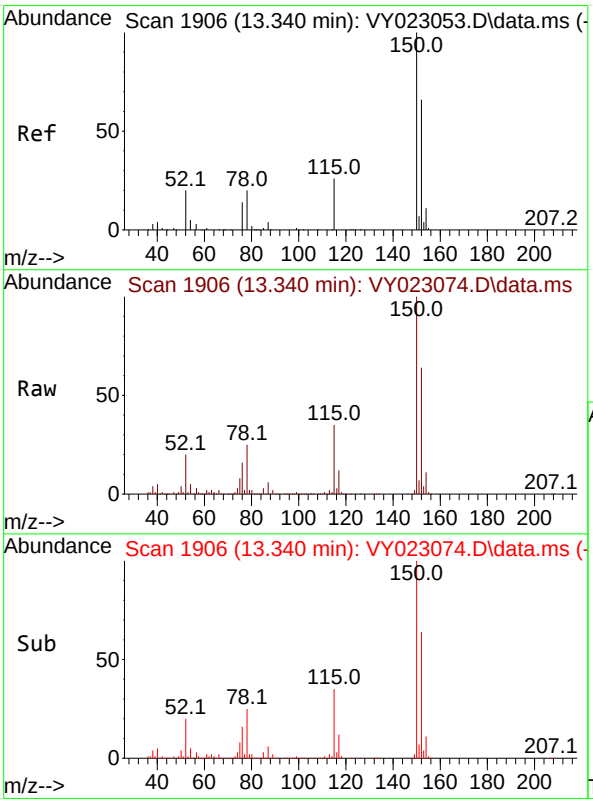

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023074.D
Acq: 13 Aug 2025 16:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
17M-S

Tgt Ion:117 Resp: 838550

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.2 | 43.4 | 65.0 |
| 119 | 32.2 | 25.6 | 38.4 |

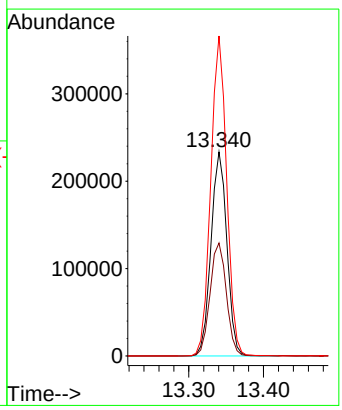



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023074.D
Acq: 13 Aug 2025 16:53

Tgt Ion:152 Resp: 344922

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.0 | 28.2 | 84.6 |
| 150 | 156.6 | 0.0 | 348.0 |



Sample Results: **VY023074.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023074.D
Acq On : 13 Aug 2025 16:53
Operator : SY/MD
Sample : Q2819-12
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
17M-S

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Title : SW846 8260

Signal : TIC: VY023074.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.610 | 464 | 474 | 483 | rBV3 | 11990 | 35538 | 1.17% | 0.226% |
| 2 | 7.628 | 959 | 969 | 975 | rBV | 433091 | 1014694 | 33.39% | 6.441% |
| 3 | 7.707 | 975 | 982 | 992 | rVB | 625241 | 1433843 | 47.18% | 9.101% |
| 4 | 8.055 | 1030 | 1039 | 1053 | rBV | 367164 | 824808 | 27.14% | 5.236% |
| 5 | 8.609 | 1119 | 1130 | 1144 | rBV | 1119201 | 2174482 | 71.55% | 13.803% |
| 6 | 10.103 | 1366 | 1375 | 1390 | rBV | 1801600 | 3039109 | 100.00% | 19.291% |
| 7 | 11.408 | 1580 | 1589 | 1602 | rBV | 1605417 | 2576872 | 84.79% | 16.357% |
| 8 | 12.401 | 1743 | 1752 | 1767 | rBV2 | 1282066 | 2120377 | 69.77% | 13.459% |
| 9 | 13.340 | 1892 | 1906 | 1915 | rBV | 1388338 | 2108370 | 69.37% | 13.383% |
| 10 | 15.139 | 2194 | 2201 | 2207 | rBV | 193188 | 330126 | 10.86% | 2.096% |
| 11 | 16.169 | 2365 | 2370 | 2379 | rVB | 30752 | 58956 | 1.94% | 0.374% |
| 12 | 16.364 | 2393 | 2402 | 2410 | rVB | 17360 | 36810 | 1.21% | 0.234% |

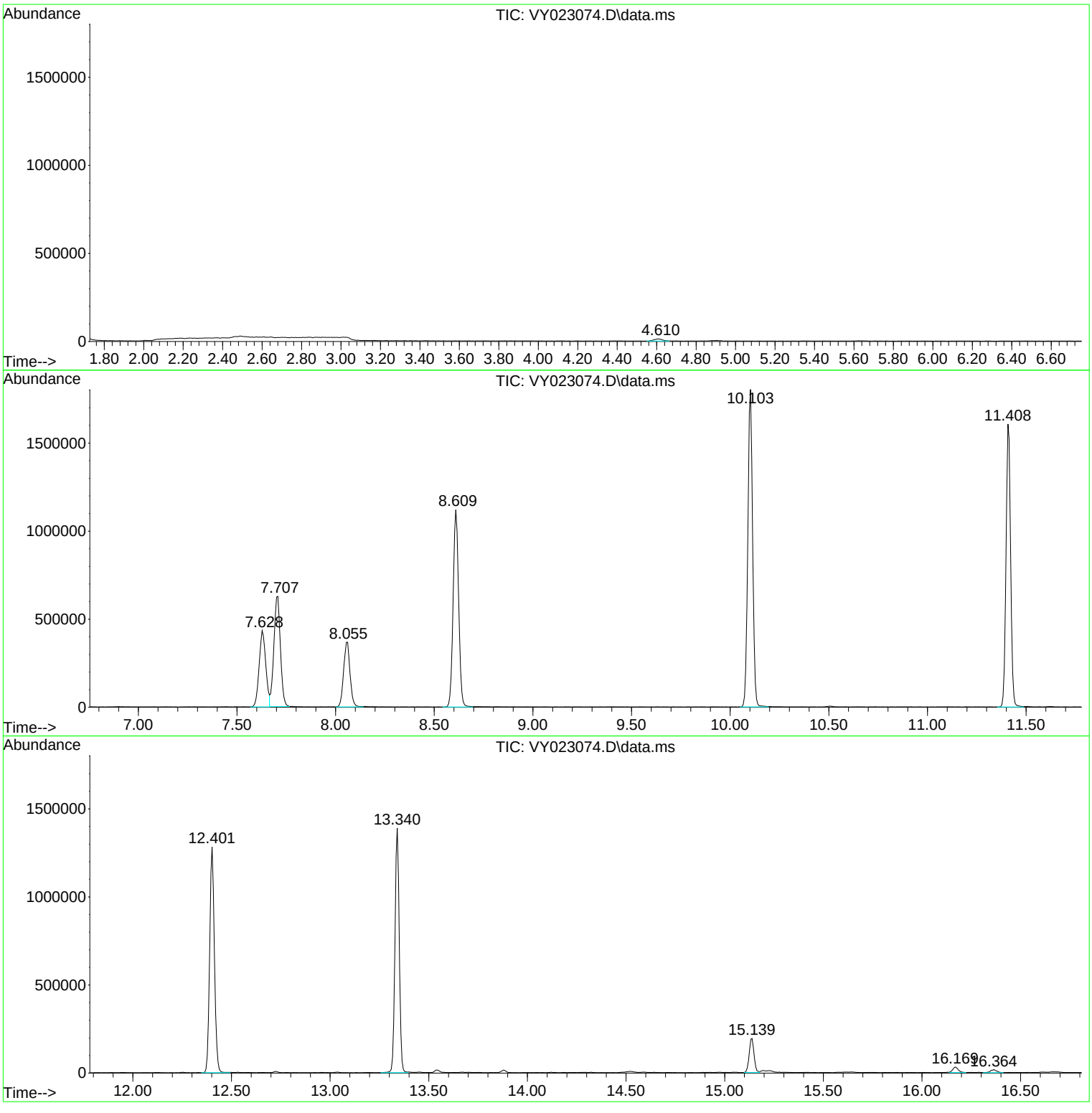
Sum of corrected areas: 15753985

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023074.D
Acq On : 13 Aug 2025 16:53
Operator : SY/MD
Sample : Q2819-12
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
17M-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023074.D
Acq On : 13 Aug 2025 16:53
Operator : SY/MD
Sample : Q2819-12
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
17M-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
**********

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023074.D
Acq On : 13 Aug 2025 16:53
Operator : SY/MD
Sample : Q2819-12
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
17M-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 17M-E | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-13 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 83.7 |
| Sample Wt/Vol: | 6.51 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023075.D | 1 | 08/13/25 17:17 | VY081325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 3.70 | U | 1.00 | 3.70 | 4.60 | ug/Kg |
| 74-87-3 | Chloromethane | 2.30 | U | 1.00 | 2.30 | 4.60 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 2.30 | U | 0.72 | 2.30 | 4.60 | ug/Kg |
| 74-83-9 | Bromomethane | 3.70 | U | 0.98 | 3.70 | 4.60 | ug/Kg |
| 75-00-3 | Chloroethane | 2.30 | U | 1.20 | 2.30 | 4.60 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 3.70 | U | 1.10 | 3.70 | 4.60 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 2.30 | U | 0.97 | 2.30 | 4.60 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 2.30 | U | 0.92 | 2.30 | 4.60 | ug/Kg |
| 67-64-1 | Acetone | 18.4 | U | 4.30 | 18.4 | 22.9 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 3.70 | U | 0.97 | 3.70 | 4.60 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 2.30 | U | 0.67 | 2.30 | 4.60 | ug/Kg |
| 79-20-9 | Methyl Acetate | 3.70 | U | 1.40 | 3.70 | 4.60 | ug/Kg |
| 75-09-2 | Methylene Chloride | 7.30 | U | 3.20 | 7.30 | 9.20 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 2.30 | U | 0.79 | 2.30 | 4.60 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 2.30 | U | 0.73 | 2.30 | 4.60 | ug/Kg |
| 110-82-7 | Cyclohexane | 2.30 | U | 0.72 | 2.30 | 4.60 | ug/Kg |
| 78-93-3 | 2-Butanone | 18.4 | U | 6.00 | 18.4 | 22.9 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 2.30 | U | 0.89 | 2.30 | 4.60 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 2.30 | U | 0.69 | 2.30 | 4.60 | ug/Kg |
| 74-97-5 | Bromochloromethane | 3.70 | U | 1.10 | 3.70 | 4.60 | ug/Kg |
| 67-66-3 | Chloroform | 3.70 | U | 0.77 | 3.70 | 4.60 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 2.30 | U | 0.85 | 2.30 | 4.60 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 2.30 | U | 0.84 | 2.30 | 4.60 | ug/Kg |
| 71-43-2 | Benzene | 2.30 | U | 0.72 | 2.30 | 4.60 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 2.30 | U | 0.72 | 2.30 | 4.60 | ug/Kg |
| 79-01-6 | Trichloroethene | 2.30 | U | 0.74 | 2.30 | 4.60 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 2.30 | U | 0.84 | 2.30 | 4.60 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 2.30 | U | 0.72 | 2.30 | 4.60 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 11.5 | U | 3.30 | 11.5 | 22.9 | ug/Kg |
| 108-88-3 | Toluene | 2.30 | U | 0.72 | 2.30 | 4.60 | ug/Kg |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 17M-E | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-13 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 83.7 |
| Sample Wt/Vol: | 6.51 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023075.D | 1 | 08/13/25 17:17 | VY081325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 2.30 | U | 0.60 | 2.30 | 4.60 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 2.30 | U | 0.57 | 2.30 | 4.60 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 2.30 | U | 0.84 | 2.30 | 4.60 | ug/Kg |
| 591-78-6 | 2-Hexanone | 11.5 | U | 3.40 | 11.5 | 22.9 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 2.30 | U | 0.80 | 2.30 | 4.60 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 2.30 | U | 0.81 | 2.30 | 4.60 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 2.30 | U | 0.96 | 2.30 | 4.60 | ug/Kg |
| 108-90-7 | Chlorobenzene | 2.30 | U | 0.84 | 2.30 | 4.60 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 2.30 | U | 0.61 | 2.30 | 4.60 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 4.60 | U | 1.10 | 4.60 | 9.20 | ug/Kg |
| 95-47-6 | o-Xylene | 2.30 | U | 0.75 | 2.30 | 4.60 | ug/Kg |
| 100-42-5 | Styrene | 2.30 | U | 0.65 | 2.30 | 4.60 | ug/Kg |
| 75-25-2 | Bromoform | 2.30 | U | 0.79 | 2.30 | 4.60 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 2.30 | U | 0.72 | 2.30 | 4.60 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 2.30 | U | 1.10 | 2.30 | 4.60 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 2.30 | U | 1.60 | 2.30 | 4.60 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 2.30 | U | 1.40 | 2.30 | 4.60 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 2.30 | U | 1.30 | 2.30 | 4.60 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 3.70 | U | 1.70 | 3.70 | 4.60 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 3.70 | U | 2.70 | 3.70 | 4.60 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 3.70 | U | 2.90 | 3.70 | 4.60 | ug/Kg |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 62.5 | | 71 - 136 | | 125% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 53.4 | | 78 - 119 | | 107% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 51.9 | | 85 - 116 | | 104% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 49.2 | | 79 - 119 | | 98% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 658000 | 7.707 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 1320000 | 8.609 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 1170000 | 11.408 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 488000 | 13.34 | | | | |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 17M-E | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-13 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 83.7 |
| Sample Wt/Vol: | 6.51 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023075.D | 1 | 08/13/25 17:17 | VY081325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023075.D
Acq On : 13 Aug 2025 17:17
Operator : SY/MD
Sample : Q2819-13
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
17M-E

Quant Time: Aug 14 01:27:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

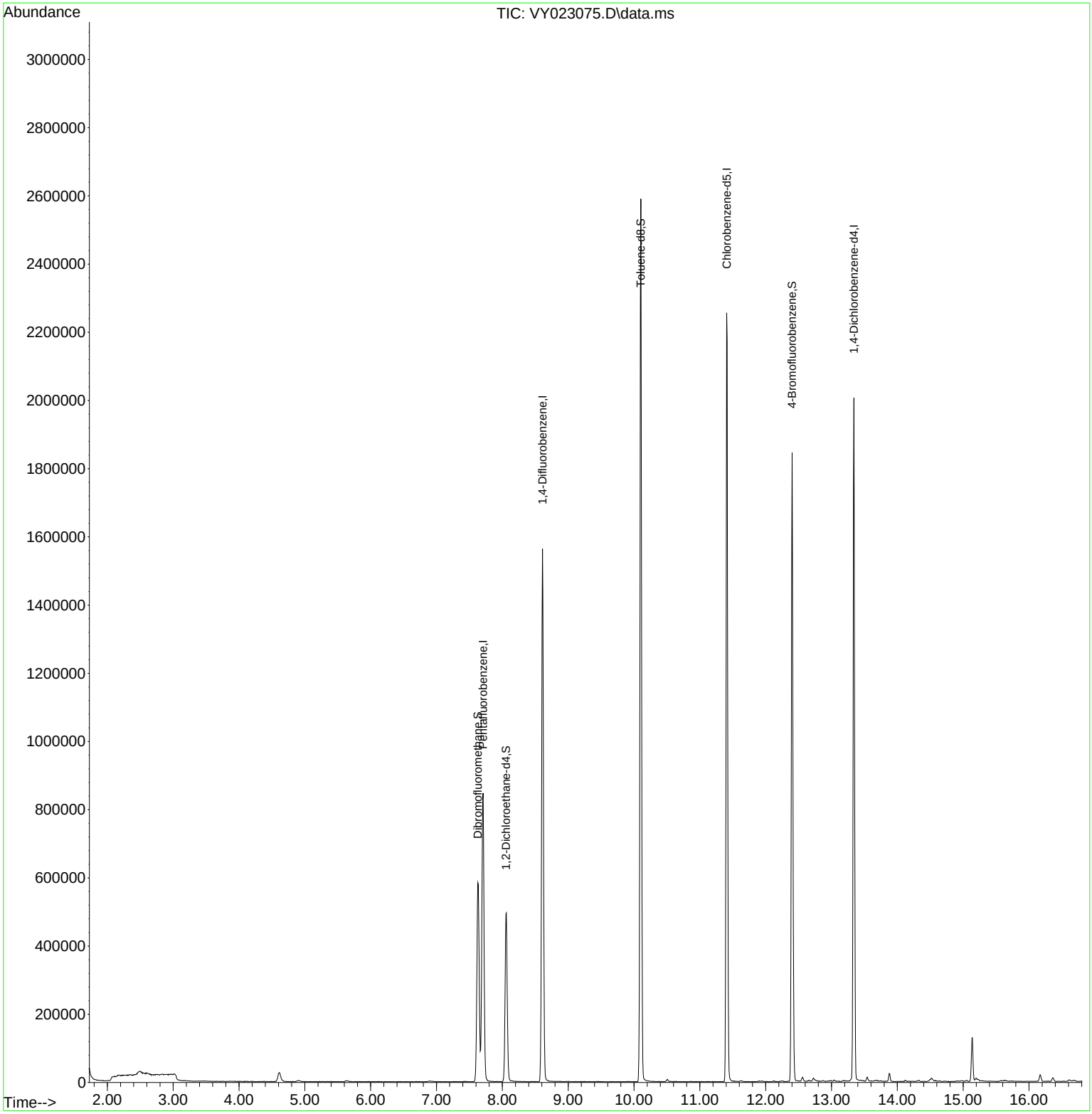
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 658128 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.609 | 114 | 1324720 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.408 | 117 | 1172539 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 487544 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.055 | 65 | 392233 | 62.533 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 125.060% | | | |
| 35) Dibromofluoromethane | 7.628 | 113 | 422956 | 53.358 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 106.720% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 1608522 | 51.944 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 103.880% | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 489471 | 49.150 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 98.300% | | | |
| Target Compounds | | | | | | Qvalue |

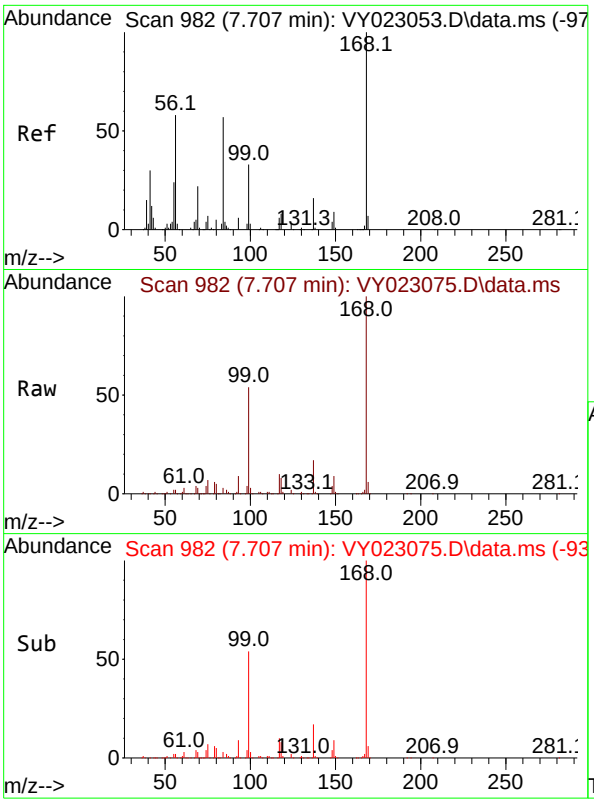
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023075.D
Acq On : 13 Aug 2025 17:17
Operator : SY/MD
Sample : Q2819-13
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
17M-E

Quant Time: Aug 14 01:27:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



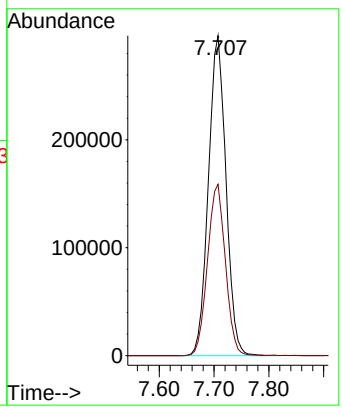


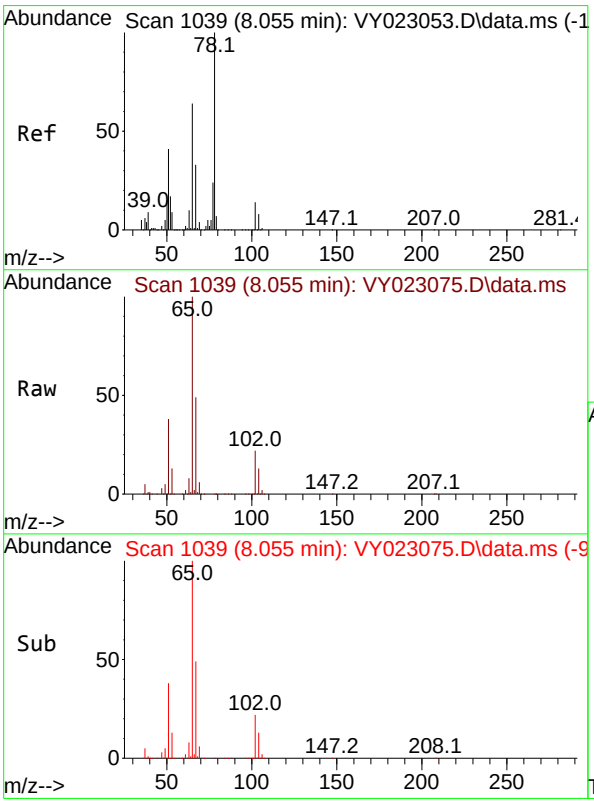

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023075.D
Acq: 13 Aug 2025 17:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
17M-E

Tgt Ion:168 Resp: 658128

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 53.5 | 42.8 | 64.2 |

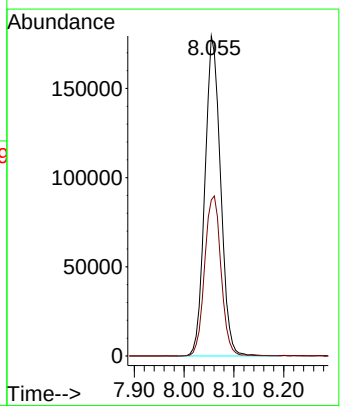


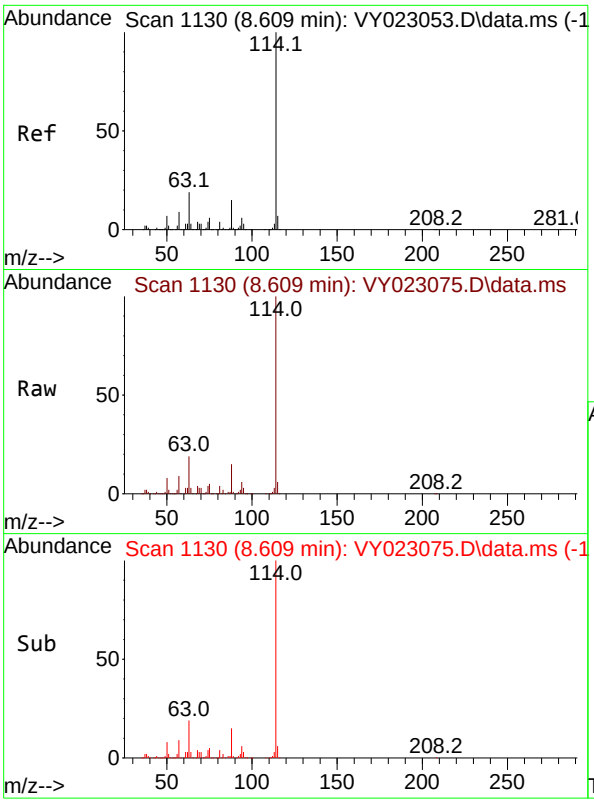




#33
1,2-Dichloroethane-d4
Concen: 62.533 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. 0.000 min
Lab File: VY023075.D
Acq: 13 Aug 2025 17:17

Tgt Ion: 65 Resp: 392233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.3 | 0.0 | 106.8 |



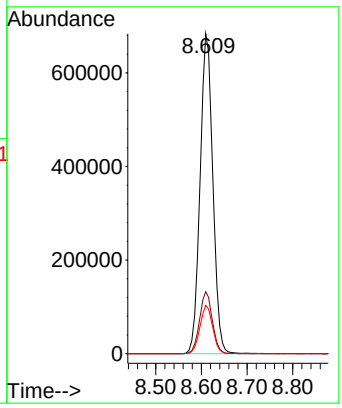


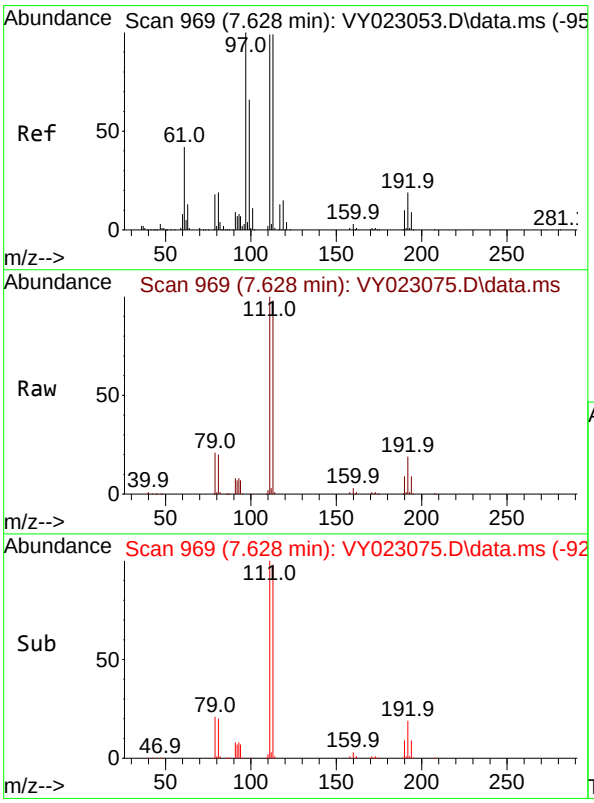

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023075.D
Acq: 13 Aug 2025 17:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
17M-E

Tgt Ion:114 Resp: 1324720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.4 | 0.0 | 38.4 |
| 88 | 15.1 | 0.0 | 30.0 |

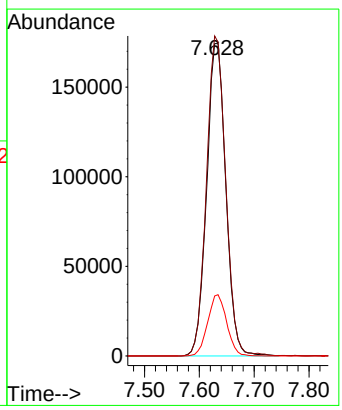


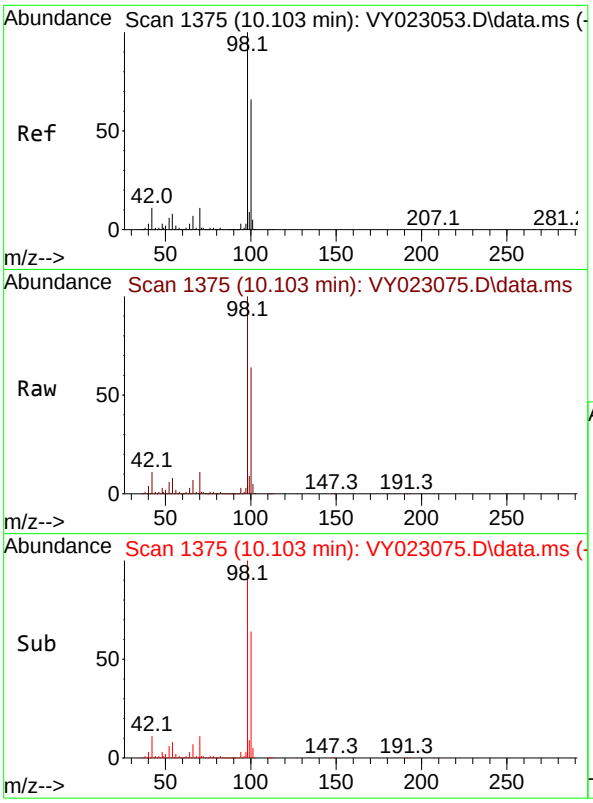




#35
Dibromofluoromethane
Concen: 53.358 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.000 min
Lab File: VY023075.D
Acq: 13 Aug 2025 17:17

Tgt Ion:113 Resp: 422956

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.7 | 81.1 | 121.7 |
| 192 | 19.4 | 16.2 | 24.4 |



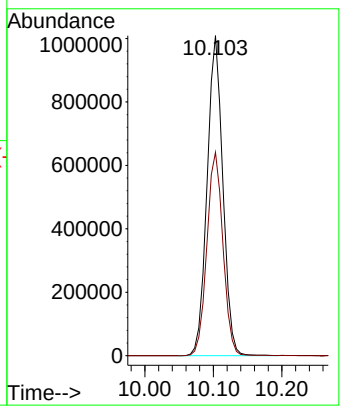


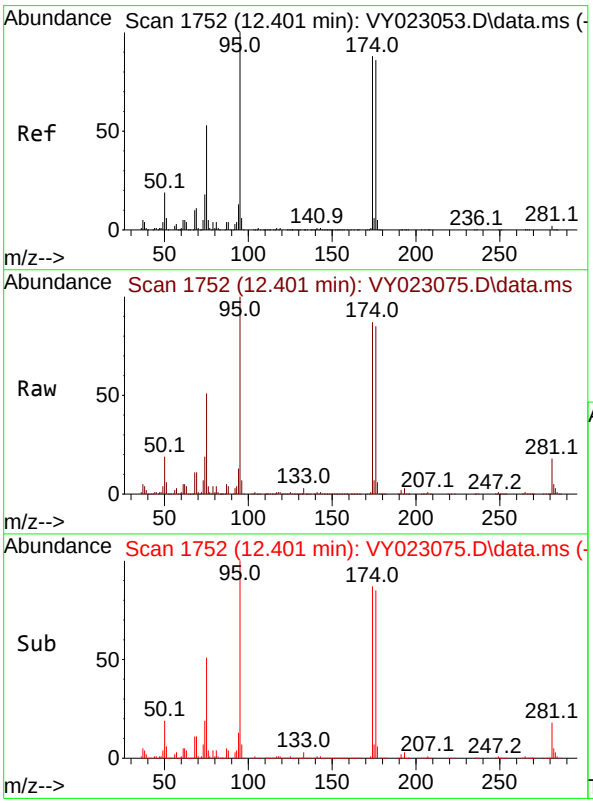

#50
Toluene-d8
Concen: 51.944 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023075.D
Acq: 13 Aug 2025 17:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
17M-E

Tgt Ion: 98 Resp: 1608522

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.0 | 52.3 | 78.5 |

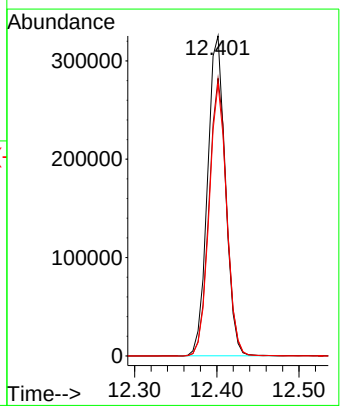


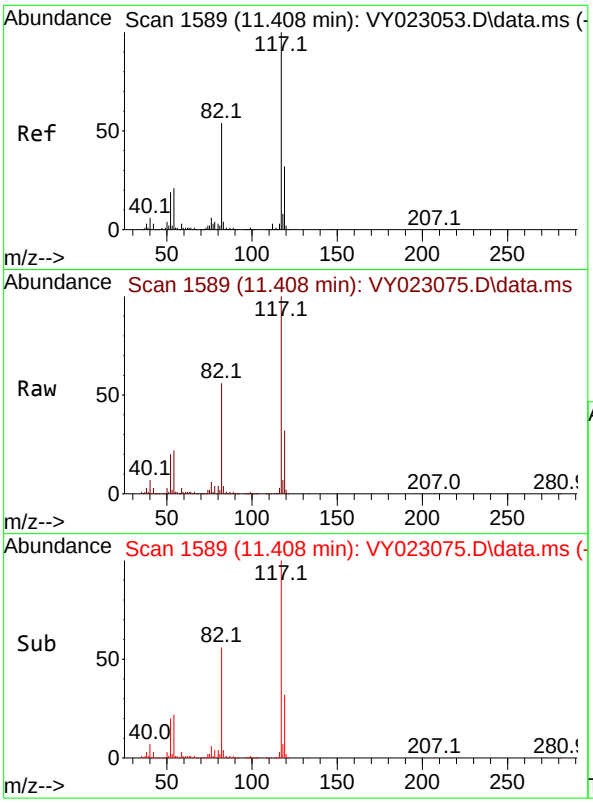




#62
4-Bromofluorobenzene
Concen: 49.150 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023075.D
Acq: 13 Aug 2025 17:17

Tgt Ion: 95 Resp: 489471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 86.2 | 0.0 | 171.6 |
| 176 | 83.3 | 0.0 | 167.6 |



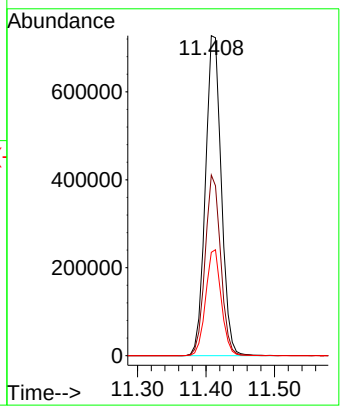


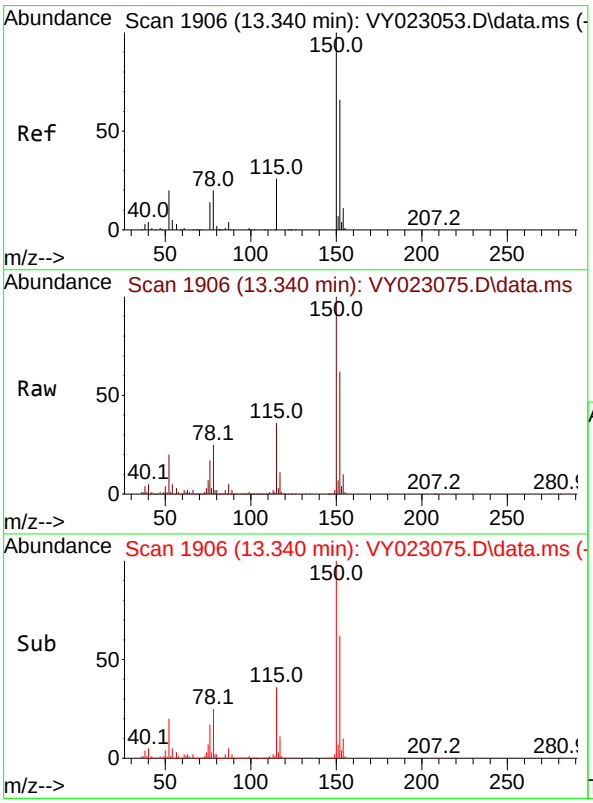

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023075.D
Acq: 13 Aug 2025 17:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
17M-E

Tgt Ion:117 Resp: 1172539

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 56.5 | 43.4 | 65.0 |
| 119 | 32.3 | 25.6 | 38.4 |

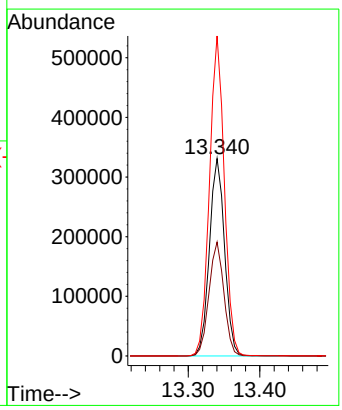



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023075.D
Acq: 13 Aug 2025 17:17

Tgt Ion:152 Resp: 487544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.1 | 28.2 | 84.6 |
| 150 | 158.5 | 0.0 | 348.0 |



Sample Results: **VY023075.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023075.D
Acq On : 13 Aug 2025 17:17
Operator : SY/MD
Sample : Q2819-13
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
17M-E

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Title : SW846 8260

Signal : TIC: VY023075.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.616 | 465 | 475 | 489 | rVB3 | 26213 | 83128 | 1.96% | 0.384% |
| 2 | 7.628 | 957 | 969 | 975 | rBV | 582871 | 1402355 | 33.11% | 6.475% |
| 3 | 7.707 | 975 | 982 | 995 | rVB | 844340 | 1928118 | 45.53% | 8.903% |
| 4 | 8.061 | 1030 | 1040 | 1051 | rBV | 493923 | 1108714 | 26.18% | 5.120% |
| 5 | 8.609 | 1120 | 1130 | 1146 | rBV | 1562882 | 3021888 | 71.36% | 13.954% |
| 6 | 10.103 | 1366 | 1375 | 1390 | rBV | 2589819 | 4234899 | 100.00% | 19.555% |
| 7 | 11.408 | 1582 | 1589 | 1603 | rBV | 2254016 | 3604732 | 85.12% | 16.645% |
| 8 | 12.401 | 1744 | 1752 | 1761 | rBV2 | 1843932 | 3068500 | 72.46% | 14.169% |
| 9 | 13.340 | 1894 | 1906 | 1921 | rBV | 2004190 | 2984250 | 70.47% | 13.780% |
| 10 | 15.139 | 2194 | 2201 | 2207 | rBV | 129503 | 219939 | 5.19% | 1.016% |

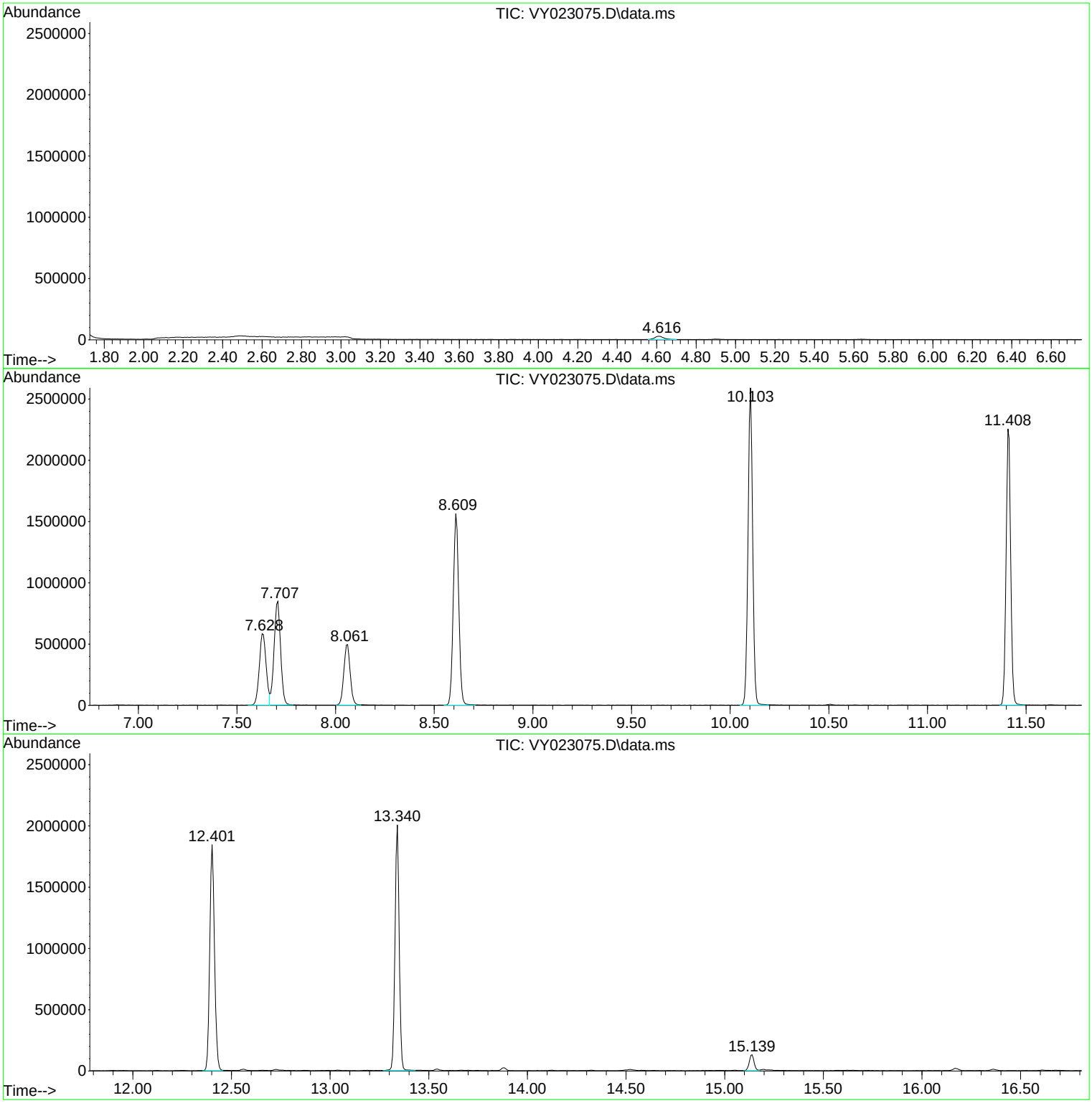
Sum of corrected areas: 21656523

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023075.D
Acq On : 13 Aug 2025 17:17
Operator : SY/MD
Sample : Q2819-13
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
17M-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023075.D
Acq On : 13 Aug 2025 17:17
Operator : SY/MD
Sample : Q2819-13
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
17M-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
**********

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023075.D
Acq On : 13 Aug 2025 17:17
Operator : SY/MD
Sample : Q2819-13
Misc : 6.51g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
17M-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 17M-W | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-14 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 85.6 |
| Sample Wt/Vol: | 6.72 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023076.D | 1 | 08/13/25 17:40 | VY081325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 3.50 | U | 0.99 | 3.50 | 4.30 | ug/Kg |
| 74-87-3 | Chloromethane | 2.20 | U | 0.99 | 2.20 | 4.30 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 2.20 | U | 0.69 | 2.20 | 4.30 | ug/Kg |
| 74-83-9 | Bromomethane | 3.50 | U | 0.93 | 3.50 | 4.30 | ug/Kg |
| 75-00-3 | Chloroethane | 2.20 | U | 1.10 | 2.20 | 4.30 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 3.50 | U | 1.10 | 3.50 | 4.30 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 2.20 | U | 0.92 | 2.20 | 4.30 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 2.20 | U | 0.87 | 2.20 | 4.30 | ug/Kg |
| 67-64-1 | Acetone | 17.4 | U | 4.10 | 17.4 | 21.7 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 3.50 | U | 0.92 | 3.50 | 4.30 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 2.20 | U | 0.63 | 2.20 | 4.30 | ug/Kg |
| 79-20-9 | Methyl Acetate | 3.50 | U | 1.30 | 3.50 | 4.30 | ug/Kg |
| 75-09-2 | Methylene Chloride | 7.00 | U | 3.10 | 7.00 | 8.70 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 2.20 | U | 0.75 | 2.20 | 4.30 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 2.20 | U | 0.70 | 2.20 | 4.30 | ug/Kg |
| 110-82-7 | Cyclohexane | 2.20 | U | 0.69 | 2.20 | 4.30 | ug/Kg |
| 78-93-3 | 2-Butanone | 17.4 | U | 5.70 | 17.4 | 21.7 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 2.20 | U | 0.84 | 2.20 | 4.30 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 2.20 | U | 0.65 | 2.20 | 4.30 | ug/Kg |
| 74-97-5 | Bromochloromethane | 3.50 | U | 1.00 | 3.50 | 4.30 | ug/Kg |
| 67-66-3 | Chloroform | 3.50 | U | 0.73 | 3.50 | 4.30 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 2.20 | U | 0.81 | 2.20 | 4.30 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 2.20 | U | 0.79 | 2.20 | 4.30 | ug/Kg |
| 71-43-2 | Benzene | 2.20 | U | 0.69 | 2.20 | 4.30 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 2.20 | U | 0.69 | 2.20 | 4.30 | ug/Kg |
| 79-01-6 | Trichloroethene | 2.20 | U | 0.70 | 2.20 | 4.30 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 2.20 | U | 0.79 | 2.20 | 4.30 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 2.20 | U | 0.68 | 2.20 | 4.30 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 10.9 | U | 3.10 | 10.9 | 21.7 | ug/Kg |
| 108-88-3 | Toluene | 2.20 | U | 0.68 | 2.20 | 4.30 | ug/Kg |

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 17M-W | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-14 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 85.6 |
| Sample Wt/Vol: | 6.72 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023076.D | 1 | 08/13/25 17:40 | VY081325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 2.20 | U | 0.56 | 2.20 | 4.30 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 2.20 | U | 0.54 | 2.20 | 4.30 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 2.20 | U | 0.80 | 2.20 | 4.30 | ug/Kg |
| 591-78-6 | 2-Hexanone | 10.9 | U | 3.20 | 10.9 | 21.7 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 2.20 | U | 0.76 | 2.20 | 4.30 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 2.20 | U | 0.76 | 2.20 | 4.30 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 2.20 | U | 0.91 | 2.20 | 4.30 | ug/Kg |
| 108-90-7 | Chlorobenzene | 2.20 | U | 0.79 | 2.20 | 4.30 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 2.20 | U | 0.58 | 2.20 | 4.30 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 4.30 | U | 1.10 | 4.30 | 8.70 | ug/Kg |
| 95-47-6 | o-Xylene | 2.20 | U | 0.71 | 2.20 | 4.30 | ug/Kg |
| 100-42-5 | Styrene | 2.20 | U | 0.62 | 2.20 | 4.30 | ug/Kg |
| 75-25-2 | Bromoform | 2.20 | U | 0.75 | 2.20 | 4.30 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 2.20 | U | 0.68 | 2.20 | 4.30 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 2.20 | U | 1.10 | 2.20 | 4.30 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 2.20 | U | 1.50 | 2.20 | 4.30 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 2.20 | U | 1.40 | 2.20 | 4.30 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 2.20 | U | 1.30 | 2.20 | 4.30 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 3.50 | U | 1.60 | 3.50 | 4.30 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 3.50 | U | 2.60 | 3.50 | 4.30 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 3.50 | U | 2.80 | 3.50 | 4.30 | ug/Kg |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50.9 | | 71 - 136 | | 102% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.5 | | 78 - 119 | | 101% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 51.7 | | 85 - 116 | | 103% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 41.3 | | 79 - 119 | | 83% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 676000 | 7.701 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 1290000 | 8.609 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 1060000 | 11.414 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 379000 | 13.34 | | | | |

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 17M-W | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-14 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 85.6 |
| Sample Wt/Vol: | 6.72 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023076.D | 1 | 08/13/25 17:40 | VY081325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023076.D
Acq On : 13 Aug 2025 17:40
Operator : SY/MD
Sample : Q2819-14
Misc : 6.72g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
17M-W

Quant Time: Aug 14 01:27:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

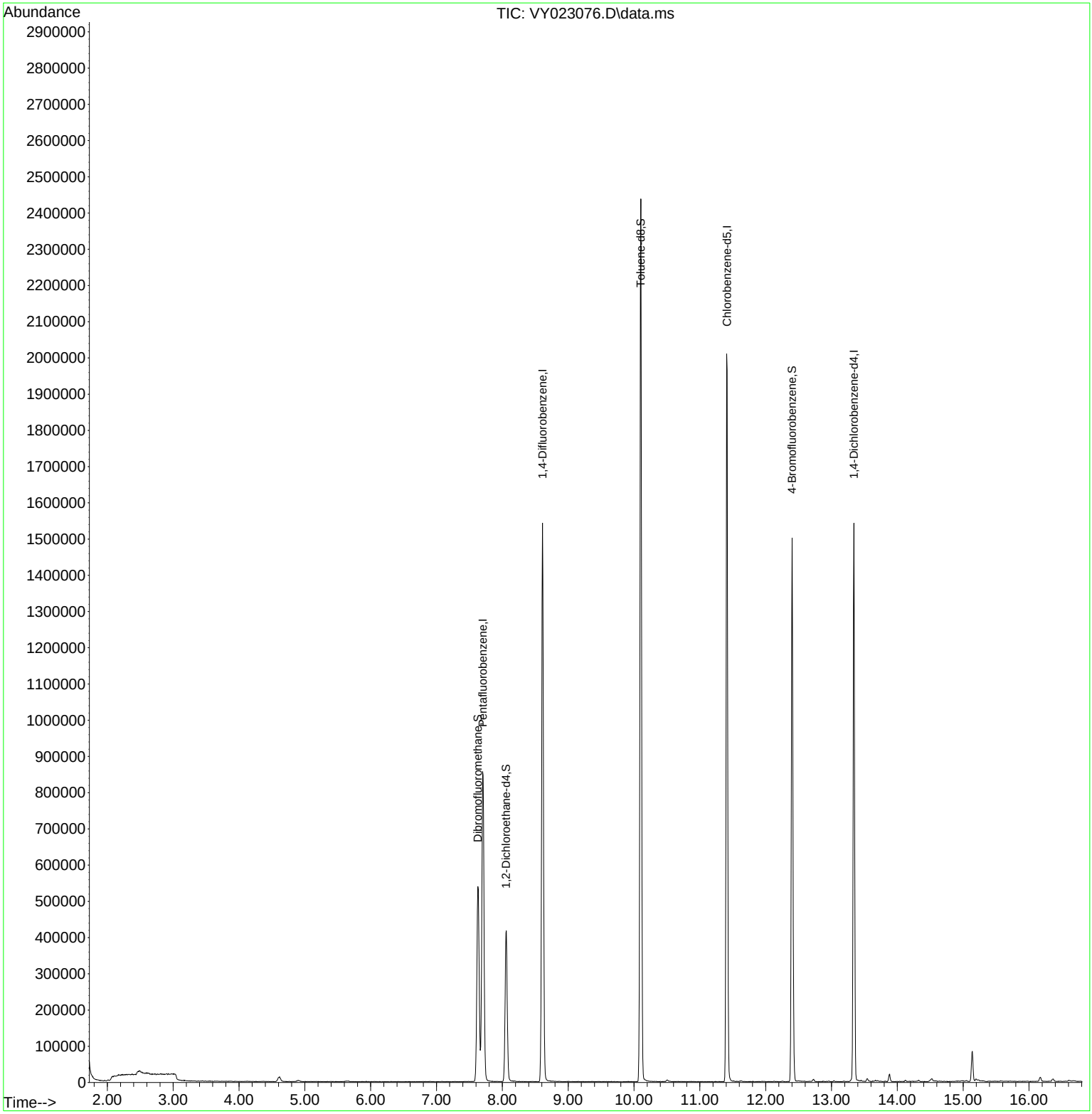
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.701 | 168 | 675805 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.609 | 114 | 1293758 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 1059306 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 379138 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.055 | 65 | 327850 | 50.901 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 101.800% | | | |
| 35) Dibromofluoromethane | 7.628 | 113 | 390959 | 50.502 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 101.000% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 1562265 | 51.658 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 103.320% | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 401739 | 41.306 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 82.620% | | | |
| Target Compounds | | | | | | Qvalue |

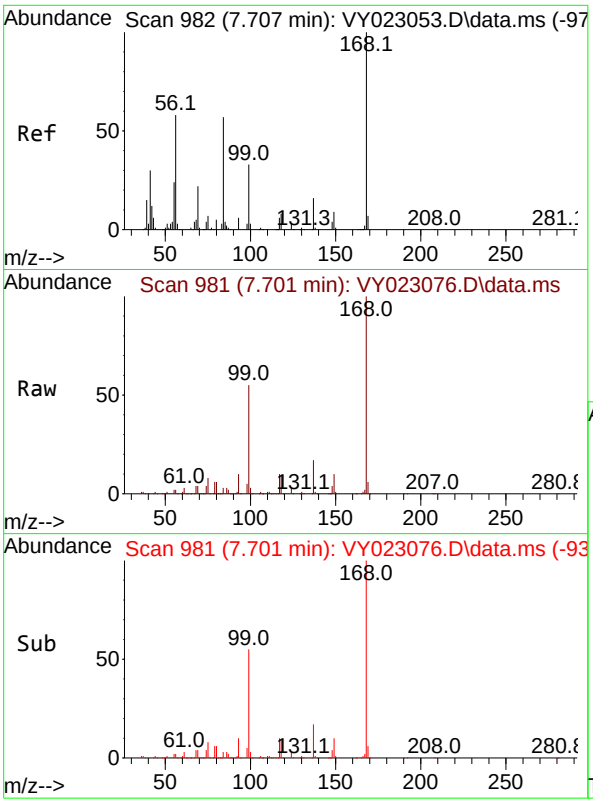
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023076.D
Acq On : 13 Aug 2025 17:40
Operator : SY/MD
Sample : Q2819-14
Misc : 6.72g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
17M-W

Quant Time: Aug 14 01:27:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



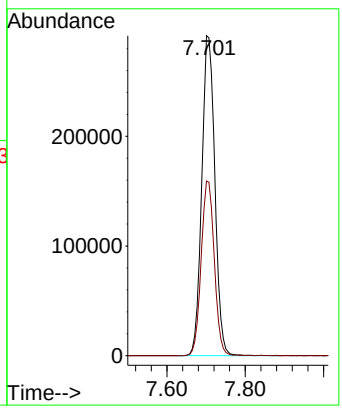


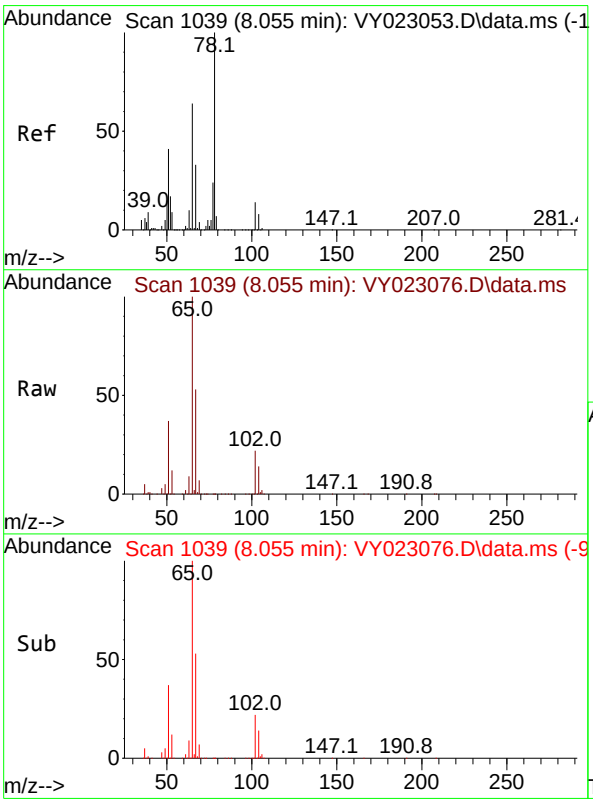

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY023076.D
Acq: 13 Aug 2025 17:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
17M-W

Tgt Ion:168 Resp: 675805

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 54.6 | 42.8 | 64.2 |

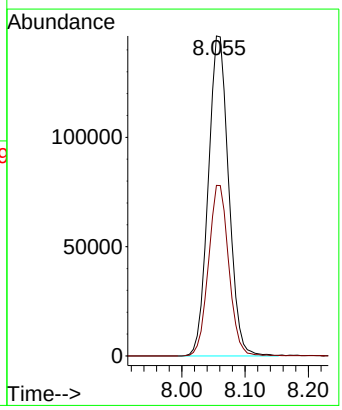


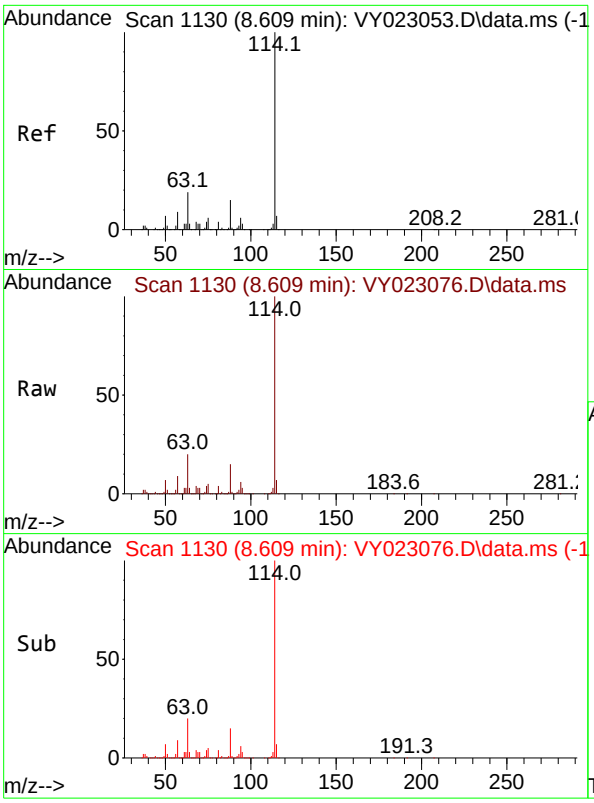




#33
1,2-Dichloroethane-d4
Concen: 50.901 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. 0.000 min
Lab File: VY023076.D
Acq: 13 Aug 2025 17:40

Tgt Ion: 65 Resp: 327850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.1 | 0.0 | 106.8 |



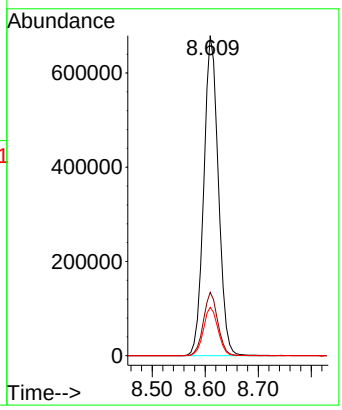


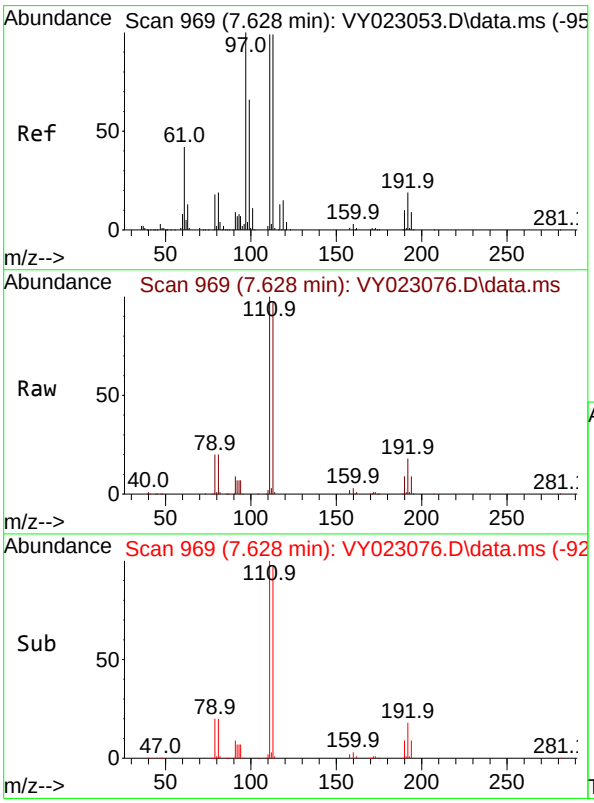

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023076.D
Acq: 13 Aug 2025 17:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
17M-W

Tgt Ion:114 Resp: 1293758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.8 | 0.0 | 38.4 |
| 88 | 15.1 | 0.0 | 30.0 |

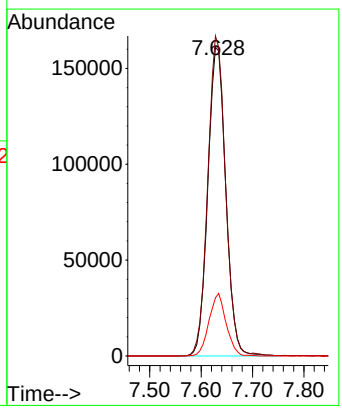


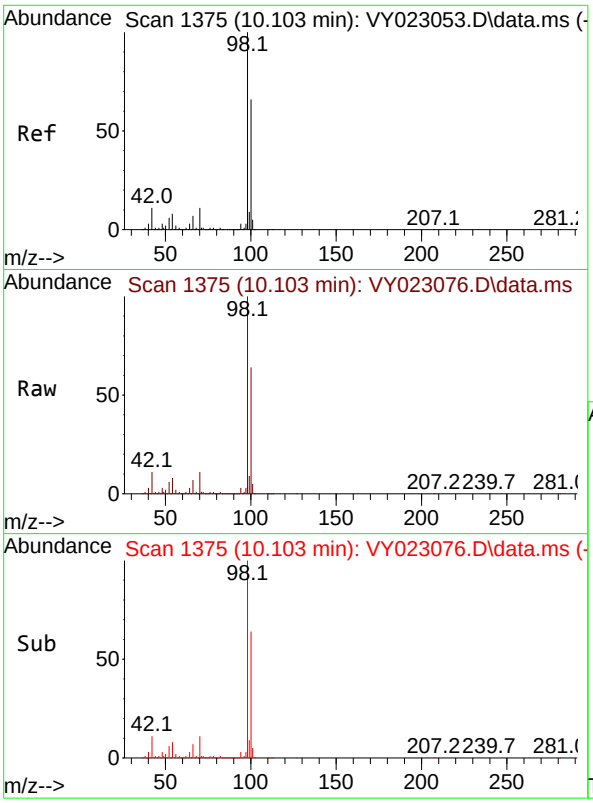




#35
Dibromofluoromethane
Concen: 50.502 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.000 min
Lab File: VY023076.D
Acq: 13 Aug 2025 17:40

Tgt Ion:113 Resp: 390959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.6 | 81.1 | 121.7 |
| 192 | 19.3 | 16.2 | 24.4 |



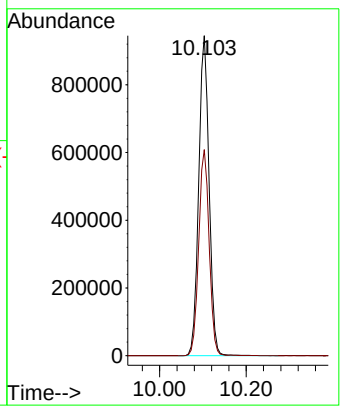


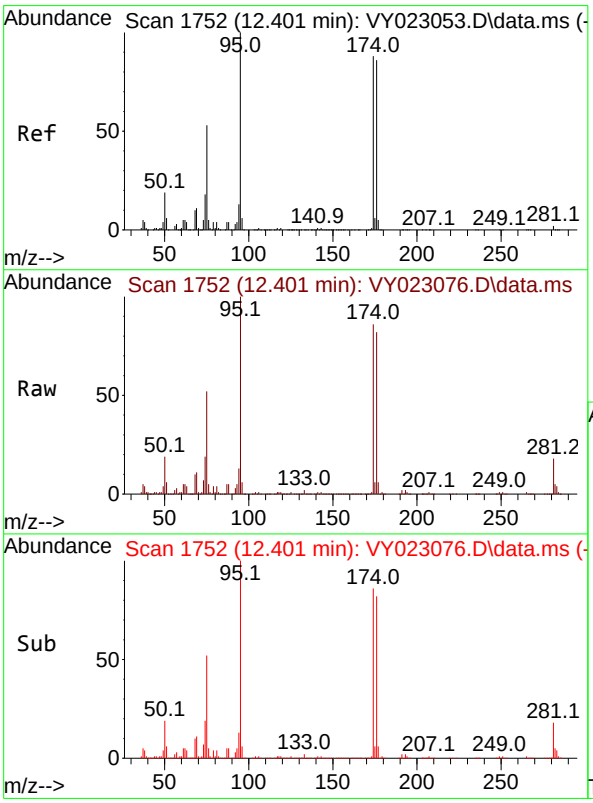

#50
Toluene-d8
Concen: 51.658 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023076.D
Acq: 13 Aug 2025 17:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
17M-W

Tgt Ion: 98 Resp: 1562265

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.0 | 52.3 | 78.5 |

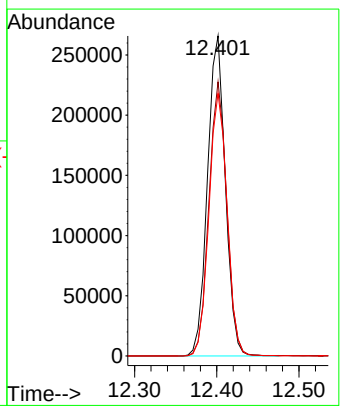


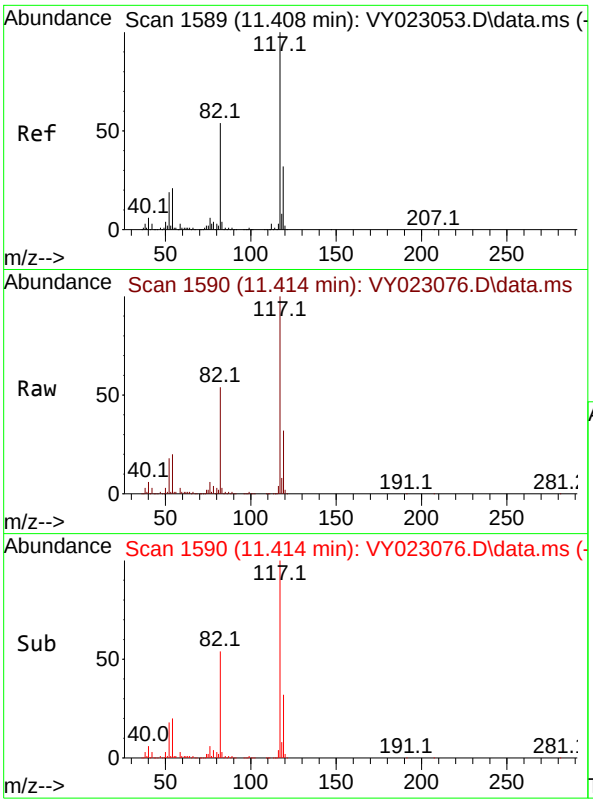




#62
4-Bromofluorobenzene
Concen: 41.306 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023076.D
Acq: 13 Aug 2025 17:40

Tgt Ion: 95 Resp: 401739

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 86.2 | 0.0 | 171.6 |
| 176 | 83.6 | 0.0 | 167.6 |



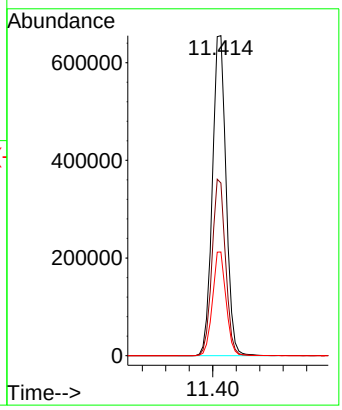


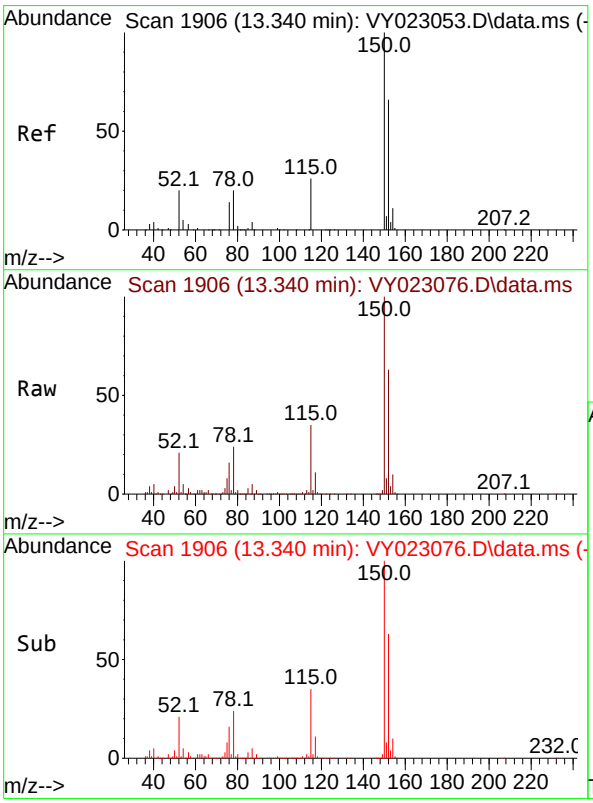

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023076.D
Acq: 13 Aug 2025 17:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
17M-W

Tgt Ion:117 Resp: 1059306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 53.9 | 43.4 | 65.0 |
| 119 | 32.4 | 25.6 | 38.4 |

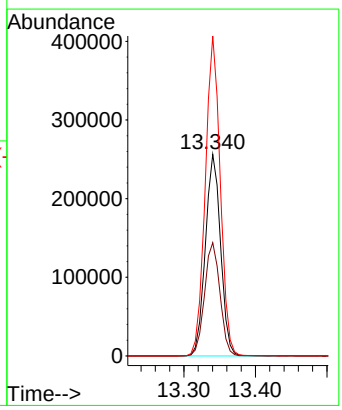



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023076.D
Acq: 13 Aug 2025 17:40

Tgt Ion:152 Resp: 379138

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.0 | 28.2 | 84.6 |
| 150 | 156.2 | 0.0 | 348.0 |



Sample Results: **VY023076.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023076.D
Acq On : 13 Aug 2025 17:40
Operator : SY/MD
Sample : Q2819-14
Misc : 6.72g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
17M-W

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Title : SW846 8260

Signal : TIC: VY023076.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 7.628 | 958 | 969 | 975 | rBV | 538621 | 1292645 | 31.67% | 6.647% |
| 2 | 7.701 | 975 | 981 | 995 | rVB | 853723 | 1979885 | 48.51% | 10.181% |
| 3 | 8.061 | 1029 | 1040 | 1054 | rBV | 416605 | 935672 | 22.93% | 4.811% |
| 4 | 8.609 | 1119 | 1130 | 1144 | rBV | 1542681 | 2952732 | 72.35% | 15.183% |
| 5 | 10.103 | 1367 | 1375 | 1390 | rBV | 2436760 | 4081196 | 100.00% | 20.986% |
| 6 | 11.408 | 1582 | 1589 | 1604 | rBV | 2009310 | 3229013 | 79.12% | 16.604% |
| 7 | 12.401 | 1744 | 1752 | 1761 | rBV2 | 1501167 | 2526864 | 61.91% | 12.993% |
| 8 | 13.340 | 1893 | 1906 | 1918 | rBV | 1541809 | 2304518 | 56.47% | 11.850% |
| 9 | 15.139 | 2194 | 2201 | 2208 | rBV | 83858 | 145035 | 3.55% | 0.746% |

Sum of corrected areas: 19447560

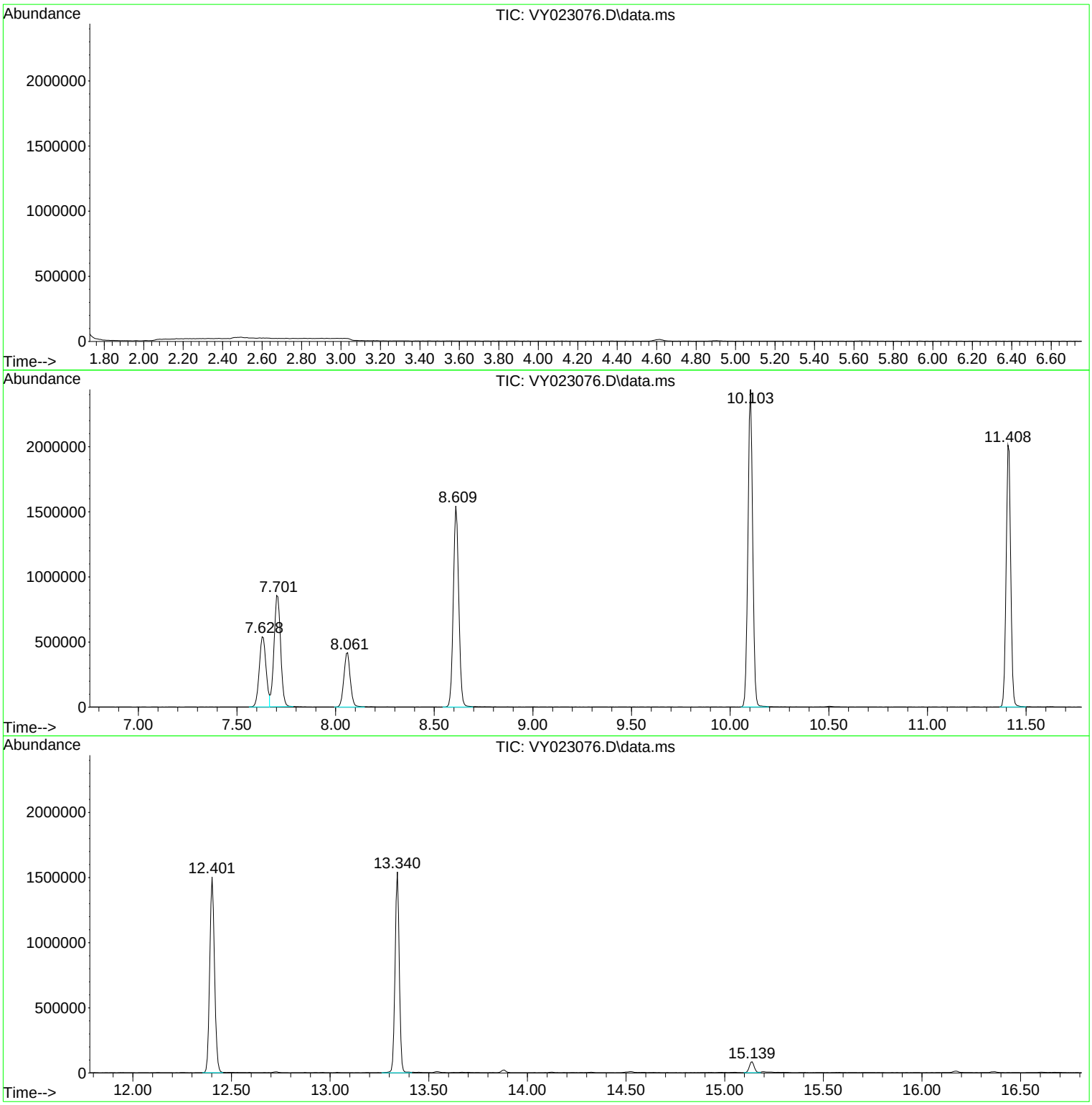
Sample Results: **VY023076.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023076.D
Acq On : 13 Aug 2025 17:40
Operator : SY/MD
Sample : Q2819-14
Misc : 6.72g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
17M-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023076.D
Acq On : 13 Aug 2025 17:40
Operator : SY/MD
Sample : Q2819-14
Misc : 6.72g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
17M-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
**********

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023076.D
Acq On : 13 Aug 2025 17:40
Operator : SY/MD
Sample : Q2819-14
Misc : 6.72g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
17M-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 17M-N | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-15 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 83.3 |
| Sample Wt/Vol: | 6.06 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023091.D | 1 | 08/14/25 13:37 | VY081425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/Kg |
| 74-87-3 | Chloromethane | 2.50 | U | 1.10 | 2.50 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 2.50 | U | 0.78 | 2.50 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 2.50 | U | 1.20 | 2.50 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 4.00 | U | 1.20 | 4.00 | 5.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 2.50 | U | 1.00 | 2.50 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 2.50 | U | 0.99 | 2.50 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 19.8 | U | 4.70 | 19.8 | 24.8 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 4.00 | U | 1.00 | 4.00 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 2.50 | U | 0.72 | 2.50 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 4.00 | U | 1.50 | 4.00 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 7.90 | U | 3.50 | 7.90 | 9.90 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 2.50 | U | 0.85 | 2.50 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 2.50 | U | 0.79 | 2.50 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 2.50 | U | 0.78 | 2.50 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 19.8 | U | 6.50 | 19.8 | 24.8 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 2.50 | U | 0.96 | 2.50 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 2.50 | U | 0.74 | 2.50 | 5.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 4.00 | U | 0.83 | 4.00 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 2.50 | U | 0.92 | 2.50 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 2.50 | U | 0.90 | 2.50 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 2.50 | U | 0.78 | 2.50 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 2.50 | U | 0.78 | 2.50 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 2.50 | U | 0.80 | 2.50 | 5.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 2.50 | U | 0.90 | 2.50 | 5.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 2.50 | U | 0.77 | 2.50 | 5.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 12.4 | U | 3.50 | 12.4 | 24.8 | ug/Kg |
| 108-88-3 | Toluene | 2.50 | U | 0.77 | 2.50 | 5.00 | ug/Kg |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 17M-N | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-15 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 83.3 |
| Sample Wt/Vol: | 6.06 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023091.D | 1 | 08/14/25 13:37 | VY081425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 2.50 | U | 0.64 | 2.50 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 2.50 | U | 0.61 | 2.50 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 2.50 | U | 0.91 | 2.50 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 12.4 | U | 3.70 | 12.4 | 24.8 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 2.50 | U | 0.86 | 2.50 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 2.50 | U | 0.87 | 2.50 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 2.50 | U | 1.00 | 2.50 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 2.50 | U | 0.90 | 2.50 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 2.50 | U | 0.66 | 2.50 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 5.00 | U | 1.20 | 5.00 | 9.90 | ug/Kg |
| 95-47-6 | o-Xylene | 2.50 | U | 0.81 | 2.50 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 2.50 | U | 0.70 | 2.50 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 2.50 | U | 0.85 | 2.50 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 2.50 | U | 0.77 | 2.50 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 2.50 | U | 1.20 | 2.50 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 2.50 | U | 1.70 | 2.50 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 2.50 | U | 1.50 | 2.50 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 2.50 | U | 1.40 | 2.50 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 4.00 | U | 1.80 | 4.00 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.00 | U | 2.90 | 4.00 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 4.00 | U | 3.10 | 4.00 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 62.3 | | 71 - 136 | | 125% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 54.5 | | 78 - 119 | | 109% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 51.8 | | 85 - 116 | | 104% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 47.0 | | 79 - 119 | | 94% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 552000 | 7.707 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 1100000 | 8.609 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 968000 | 11.414 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 382000 | 13.34 | | | | |

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/05/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 17M-N | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-15 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 83.3 |
| Sample Wt/Vol: | 6.06 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023091.D | 1 | 08/14/25 13:37 | VY081425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023091.D
Acq On : 14 Aug 2025 13:37
Operator : SY/MD
Sample : Q2819-15
Misc : 6.06g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
17M-N

Quant Time: Aug 14 14:48:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

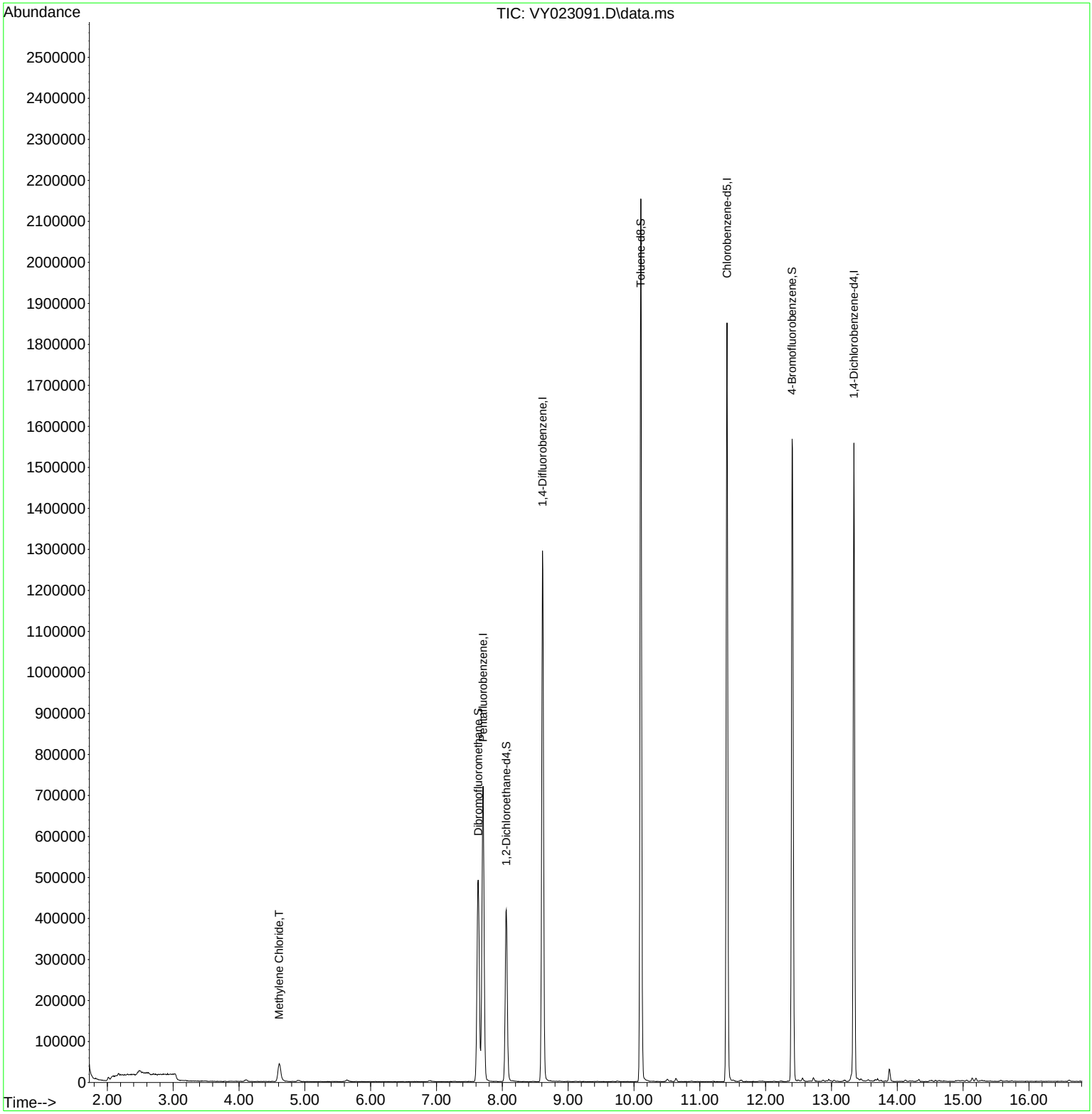
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 551711 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.609 | 114 | 1101553 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 967632 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 381964 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 327813 | 62.343 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 124.680% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 359196 | 54.495 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 109.000% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 1334904 | 51.842 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 103.680% | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 389251 | 47.005 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 94.020% | | | |
| Target Compounds | | | | | | Qvalue |
| 20) Methylene Chloride | 4.610 | 84 | 32918 | 3.006 | ug/l | 96 |

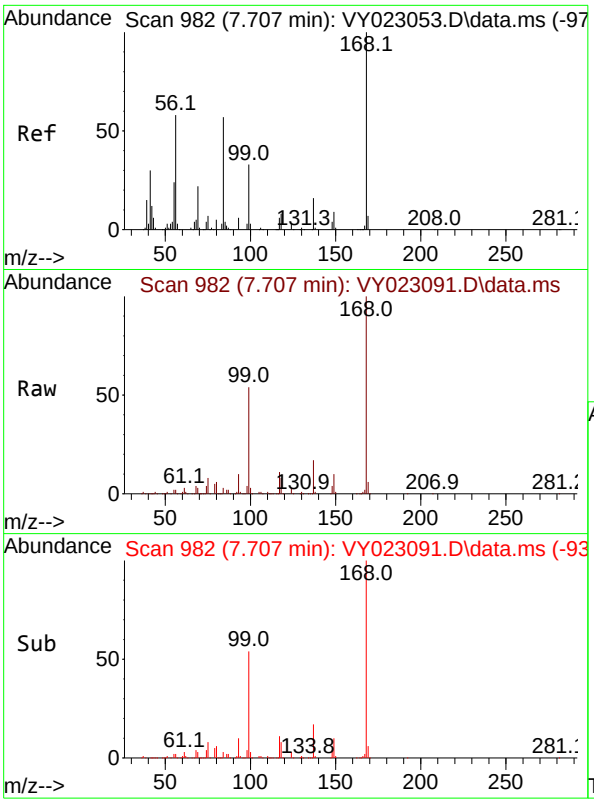
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023091.D
Acq On : 14 Aug 2025 13:37
Operator : SY/MD
Sample : Q2819-15
Misc : 6.06g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
17M-N

Quant Time: Aug 14 14:48:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



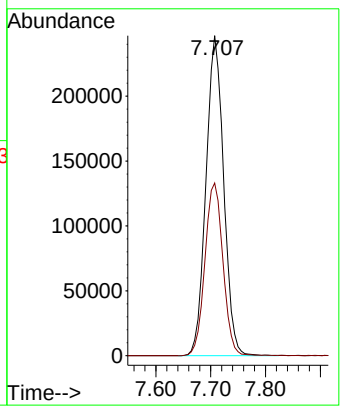


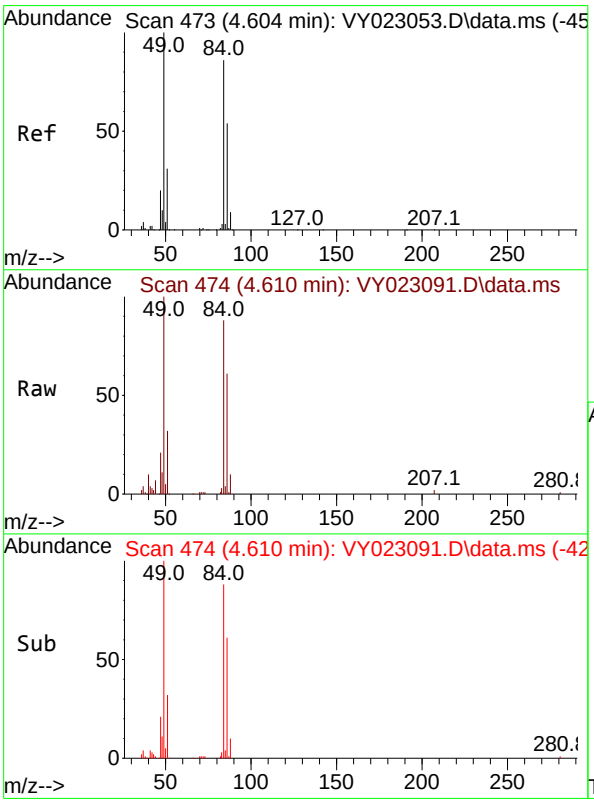

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023091.D
Acq: 14 Aug 2025 13:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
17M-N

Tgt Ion:168 Resp: 551711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 53.9 | 42.8 | 64.2 |

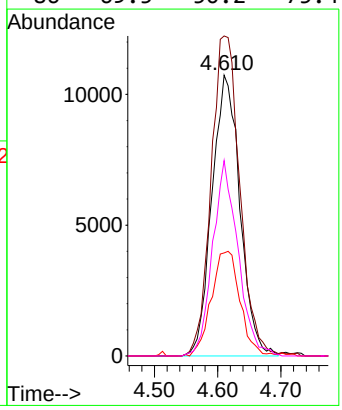


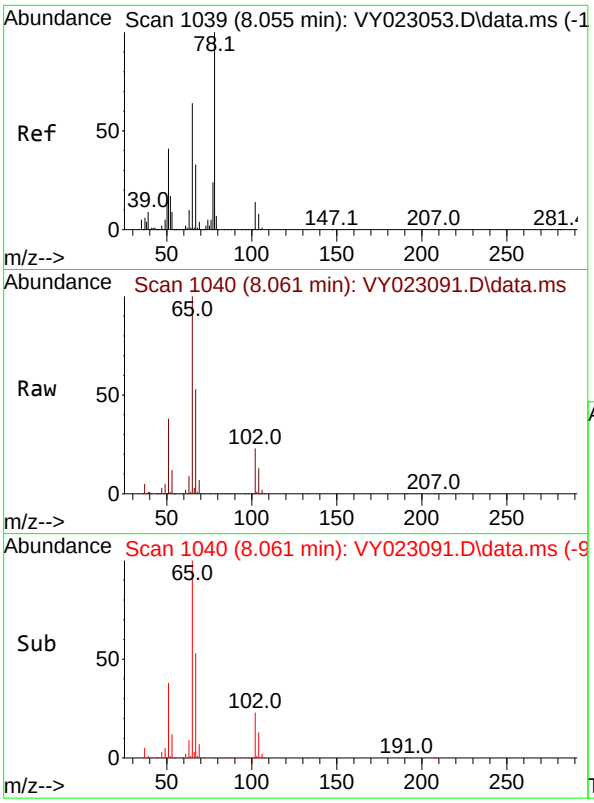




#20
Methylene Chloride
Concen: 3.006 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023091.D
Acq: 14 Aug 2025 13:37

Tgt Ion: 84 Resp: 32918

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 113.9 | 93.0 | 139.6 |
| 51 | 36.7 | 29.0 | 43.4 |
| 86 | 69.5 | 50.2 | 75.4 |



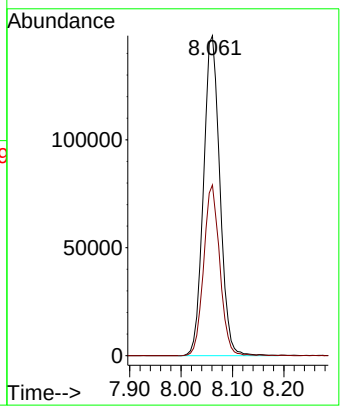


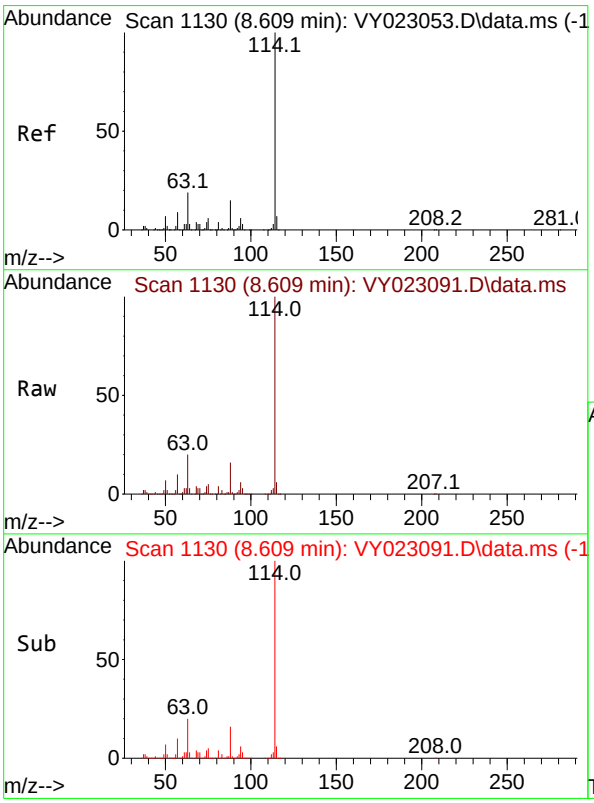

#33
1,2-Dichloroethane-d4
Concen: 62.343 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023091.D
Acq: 14 Aug 2025 13:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
17M-N

Tgt Ion: 65 Resp: 327813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.4 | 0.0 | 106.8 |

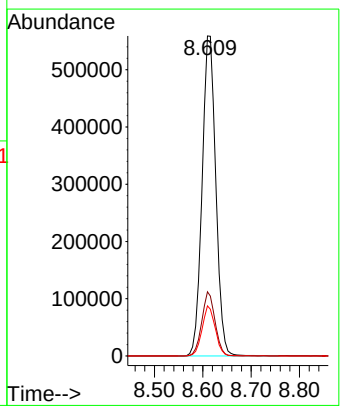


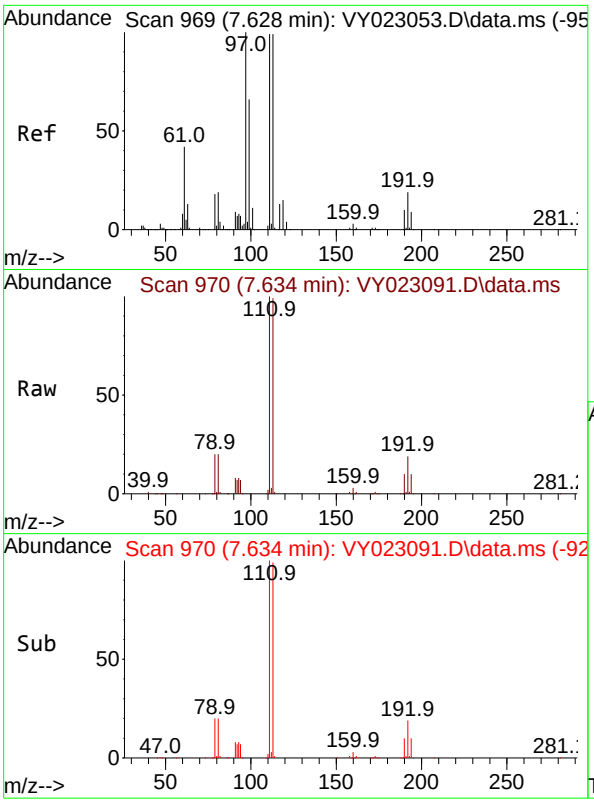




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023091.D
Acq: 14 Aug 2025 13:37

Tgt Ion:114 Resp: 1101553

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.0 | 0.0 | 38.4 |
| 88 | 15.6 | 0.0 | 30.0 |



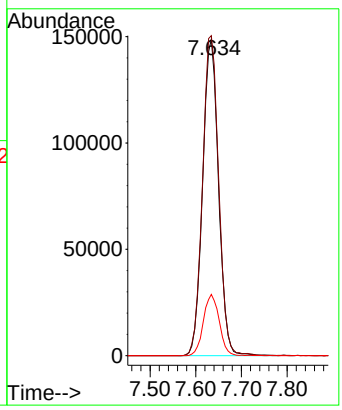


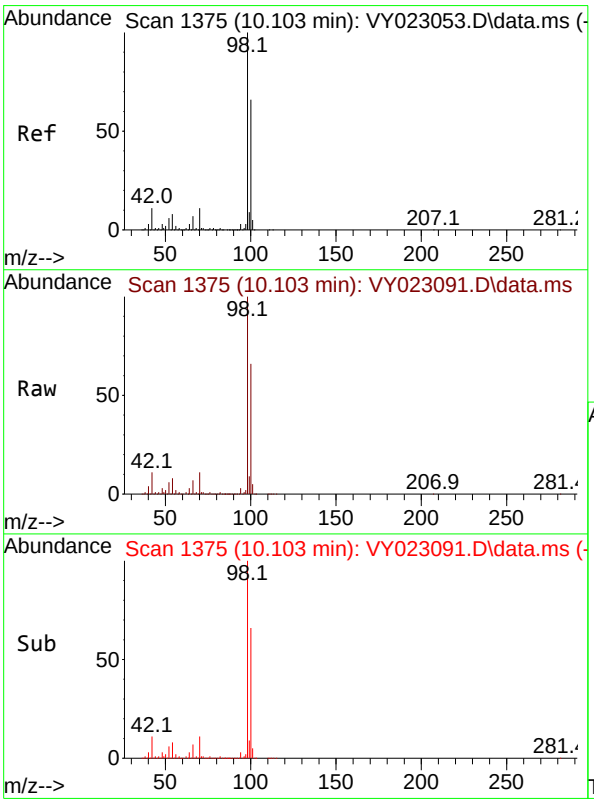

#35
Dibromofluoromethane
Concen: 54.495 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023091.D
Acq: 14 Aug 2025 13:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
17M-N

Tgt Ion:113 Resp: 359196

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.1 | 81.1 | 121.7 |
| 192 | 19.4 | 16.2 | 24.4 |

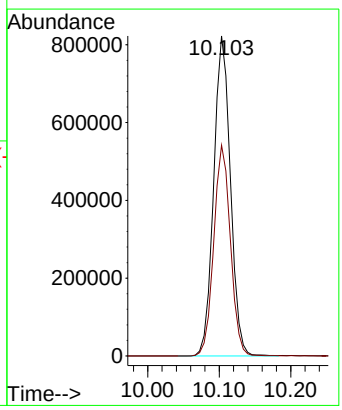


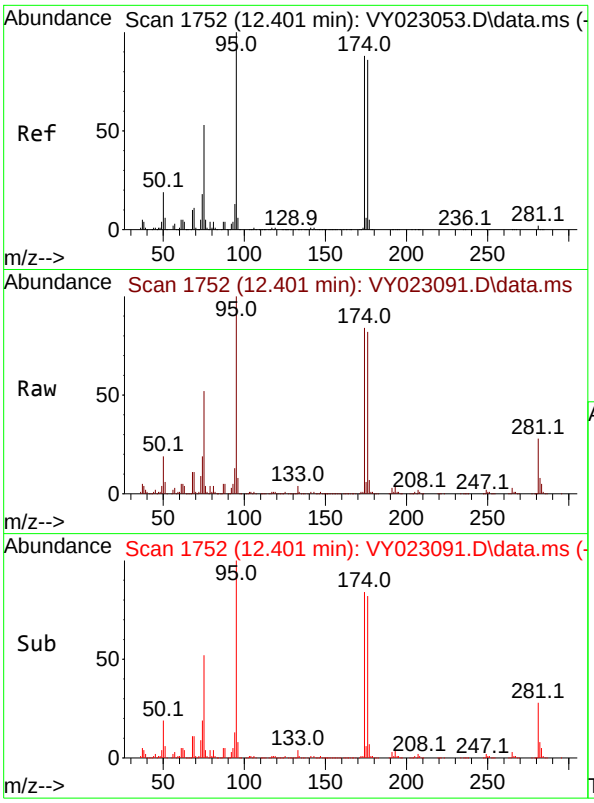




#50
Toluene-d8
Concen: 51.842 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023091.D
Acq: 14 Aug 2025 13:37

Tgt Ion: 98 Resp: 1334904

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.5 | 52.3 | 78.5 |



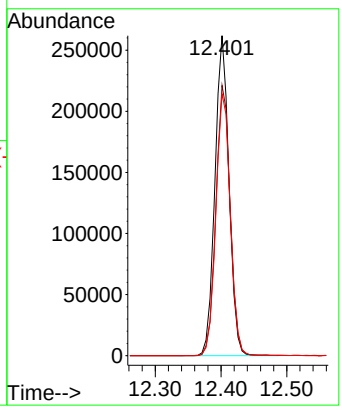


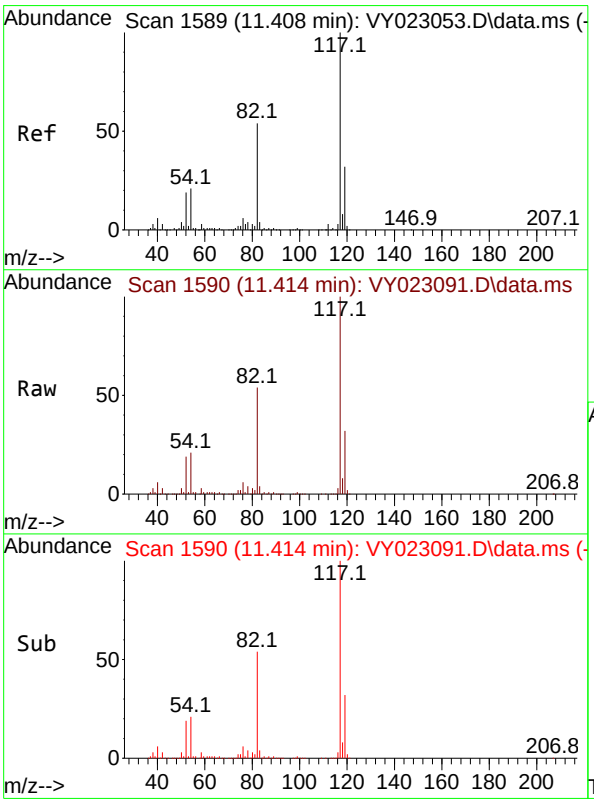

#62
4-Bromofluorobenzene
Concen: 47.005 ug/l
RT: 12.401 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023091.D
Acq: 14 Aug 2025 13:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
17M-N

Tgt Ion: 95 Resp: 389251

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 86.0 | 0.0 | 171.6 |
| 176 | 83.9 | 0.0 | 167.6 |

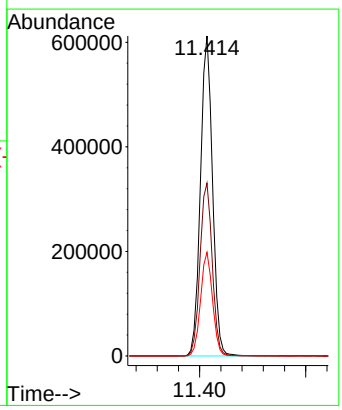


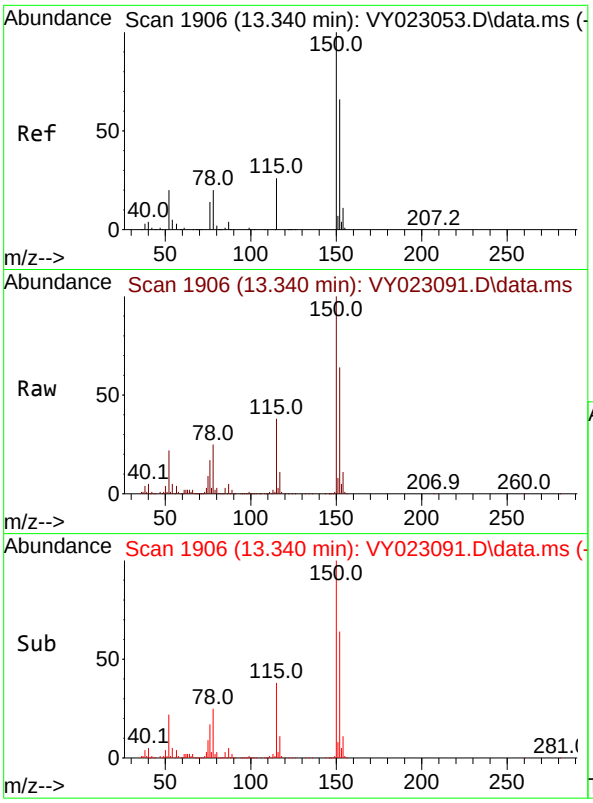




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. 0.006 min
Lab File: VY023091.D
Acq: 14 Aug 2025 13:37

Tgt Ion:117 Resp: 967632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.0 | 43.4 | 65.0 |
| 119 | 32.4 | 25.6 | 38.4 |



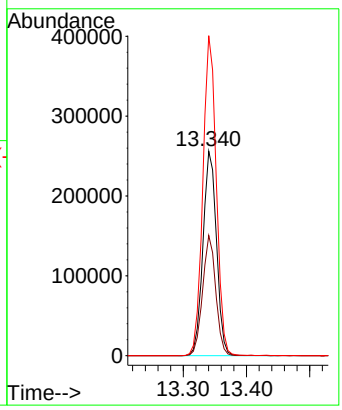



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023091.D
Acq: 14 Aug 2025 13:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
17M-N

Tgt Ion:152 Resp: 381964

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.1 | 28.2 | 84.6 |
| 150 | 155.3 | 0.0 | 348.0 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023091.D
Acq On : 14 Aug 2025 13:37
Operator : SY/MD
Sample : Q2819-15
Misc : 6.06g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
17M-N

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Title : SW846 8260

Signal : TIC: VY023091.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.610 | 463 | 474 | 489 | rBV | 43984 | 145096 | 4.12% | 0.798% |
| 2 | 7.634 | 958 | 970 | 976 | rBV | 491718 | 1209158 | 34.37% | 6.652% |
| 3 | 7.707 | 976 | 982 | 1000 | rVB | 719348 | 1623635 | 46.15% | 8.932% |
| 4 | 8.061 | 1030 | 1040 | 1051 | rBV | 418570 | 929793 | 26.43% | 5.115% |
| 5 | 8.609 | 1121 | 1130 | 1146 | rBV | 1295322 | 2528712 | 71.87% | 13.911% |
| 6 | 10.103 | 1367 | 1375 | 1395 | rBV | 2152692 | 3518536 | 100.00% | 19.356% |
| 7 | 11.414 | 1582 | 1590 | 1601 | rBV | 1850563 | 2962325 | 84.19% | 16.296% |
| 8 | 12.401 | 1742 | 1752 | 1761 | rBV2 | 1566475 | 2868649 | 81.53% | 15.781% |
| 9 | 13.340 | 1889 | 1906 | 1914 | rBV | 1557089 | 2337646 | 66.44% | 12.860% |
| 10 | 13.877 | 1988 | 1994 | 2005 | rVB2 | 30503 | 54342 | 1.54% | 0.299% |

Sum of corrected areas: 18177892

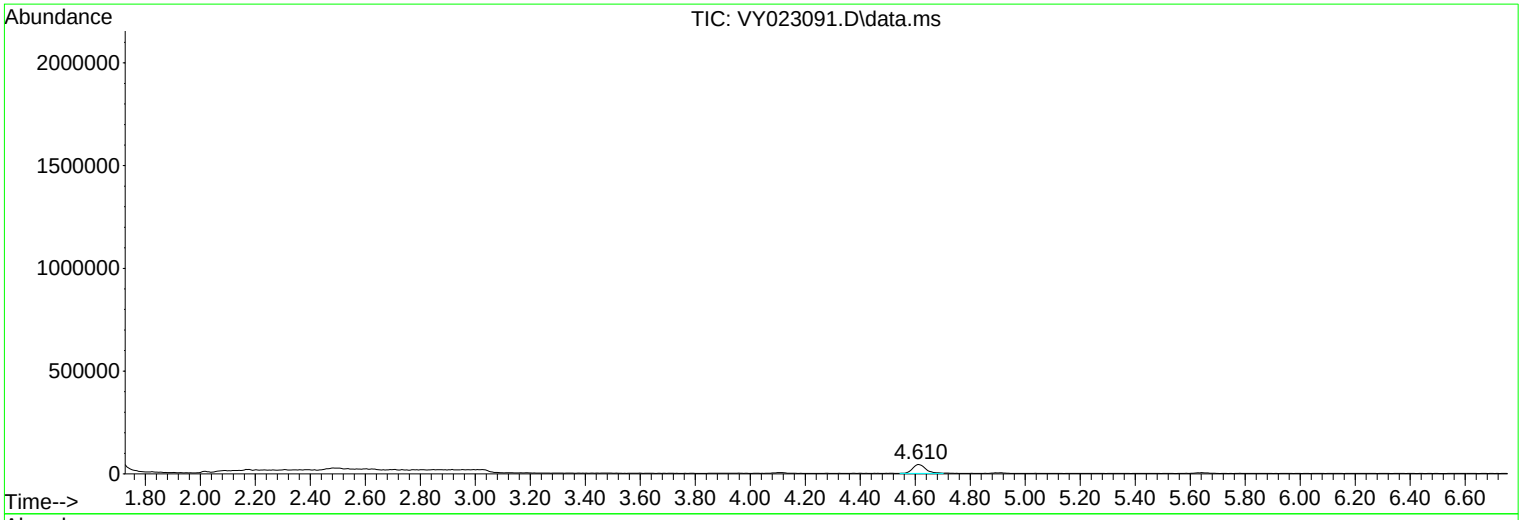
Sample Results: **VY023091.D**

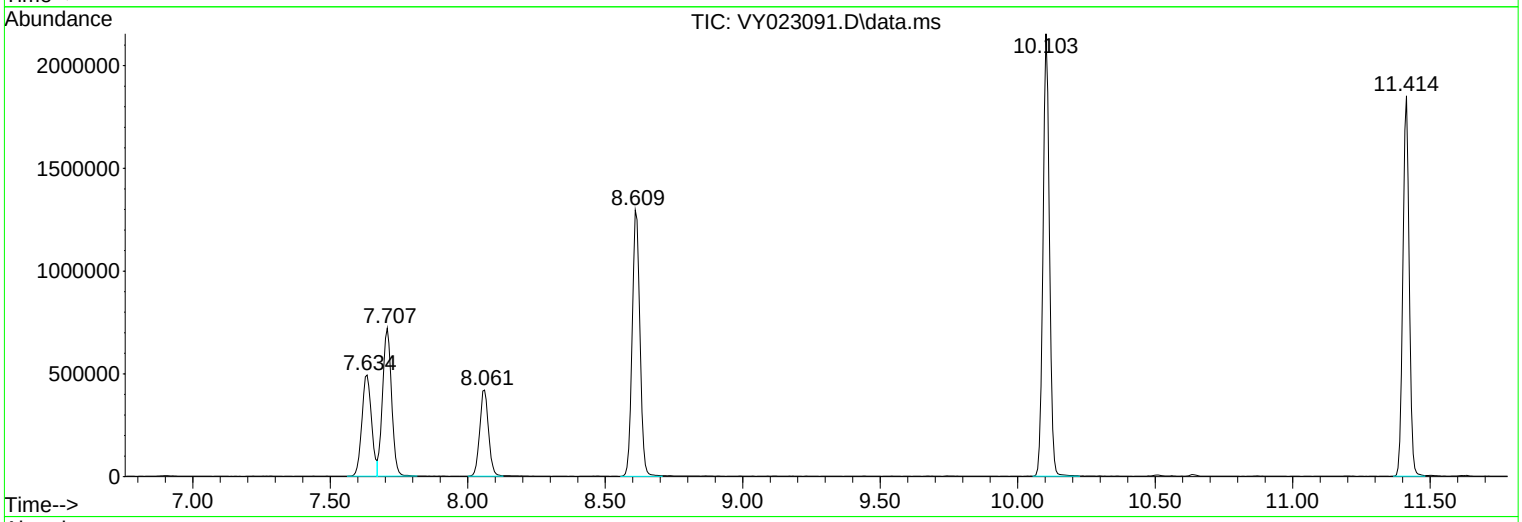
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023091.D
Acq On : 14 Aug 2025 13:37
Operator : SY/MD
Sample : Q2819-15
Misc : 6.06g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

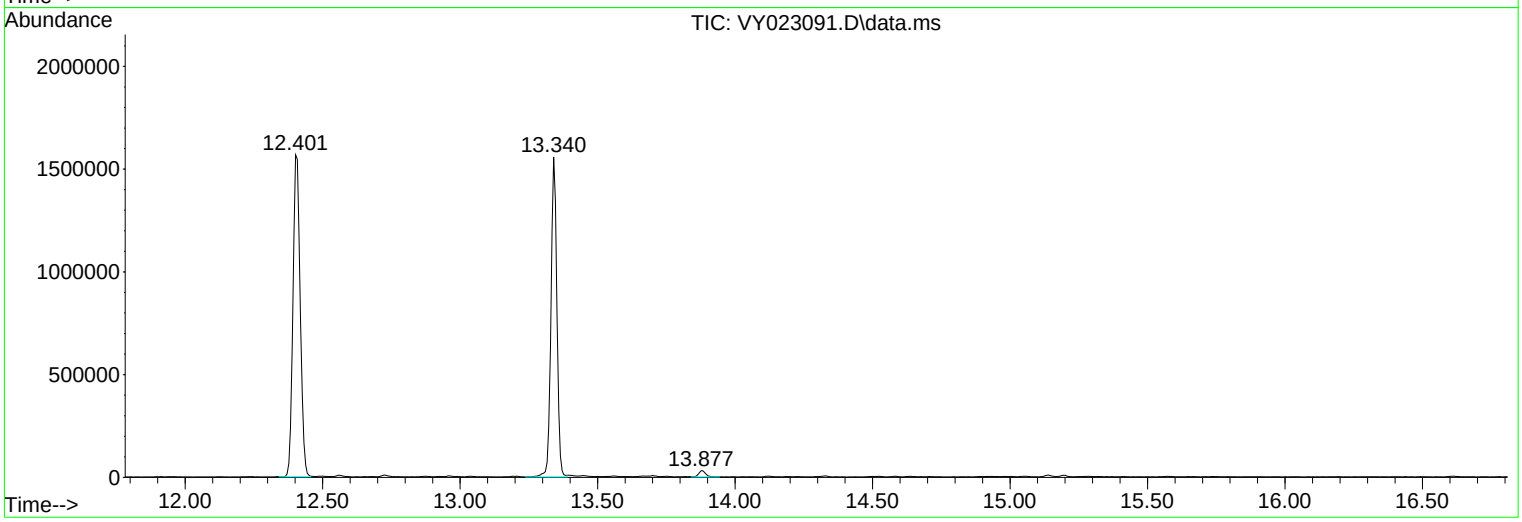
**Instrument :**
MSVOA_Y
**ClientSampleId :**
17M-N

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023091.D
Acq On : 14 Aug 2025 13:37
Operator : SY/MD
Sample : Q2819-15
Misc : 6.06g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
17M-N

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
**********

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023091.D
Acq On : 14 Aug 2025 13:37
Operator : SY/MD
Sample : Q2819-15
Misc : 6.06g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
17M-N

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name | RT | EstConc | Units | Response | Internal Standard # | Internal Standard RT | Internal Standard Resp | Internal Standard Conc |
|---|---|---|---|---|---|---|---|---|

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/06/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 38M-S | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-16 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 92.4 |
| Sample Wt/Vol: | 6.62 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023092.D | 1 | 08/14/25 14:00 | VY081425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 3.30 | U | 0.93 | 3.30 | 4.10 | ug/Kg |
| 74-87-3 | Chloromethane | 2.00 | U | 0.93 | 2.00 | 4.10 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 2.00 | U | 0.65 | 2.00 | 4.10 | ug/Kg |
| 74-83-9 | Bromomethane | 3.30 | U | 0.87 | 3.30 | 4.10 | ug/Kg |
| 75-00-3 | Chloroethane | 2.00 | U | 1.00 | 2.00 | 4.10 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 3.30 | U | 0.99 | 3.30 | 4.10 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 2.00 | U | 0.87 | 2.00 | 4.10 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 2.00 | U | 0.82 | 2.00 | 4.10 | ug/Kg |
| 67-64-1 | Acetone | 16.3 | U | 3.90 | 16.3 | 20.4 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 3.30 | U | 0.87 | 3.30 | 4.10 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 2.00 | U | 0.60 | 2.00 | 4.10 | ug/Kg |
| 79-20-9 | Methyl Acetate | 3.30 | U | 1.30 | 3.30 | 4.10 | ug/Kg |
| 75-09-2 | Methylene Chloride | 6.50 | U | 2.90 | 6.50 | 8.20 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 2.00 | U | 0.70 | 2.00 | 4.10 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 2.00 | U | 0.65 | 2.00 | 4.10 | ug/Kg |
| 110-82-7 | Cyclohexane | 2.00 | U | 0.65 | 2.00 | 4.10 | ug/Kg |
| 78-93-3 | 2-Butanone | 16.3 | U | 5.30 | 16.3 | 20.4 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 2.00 | U | 0.79 | 2.00 | 4.10 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 2.00 | U | 0.61 | 2.00 | 4.10 | ug/Kg |
| 74-97-5 | Bromochloromethane | 3.30 | U | 0.94 | 3.30 | 4.10 | ug/Kg |
| 67-66-3 | Chloroform | 3.30 | U | 0.69 | 3.30 | 4.10 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 2.00 | U | 0.76 | 2.00 | 4.10 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 2.00 | U | 0.74 | 2.00 | 4.10 | ug/Kg |
| 71-43-2 | Benzene | 2.00 | U | 0.65 | 2.00 | 4.10 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 2.00 | U | 0.65 | 2.00 | 4.10 | ug/Kg |
| 79-01-6 | Trichloroethene | 2.00 | U | 0.66 | 2.00 | 4.10 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 2.00 | U | 0.74 | 2.00 | 4.10 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 2.00 | U | 0.64 | 2.00 | 4.10 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 10.2 | U | 2.90 | 10.2 | 20.4 | ug/Kg |
| 108-88-3 | Toluene | 2.00 | U | 0.64 | 2.00 | 4.10 | ug/Kg |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/06/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 38M-S | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-16 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 92.4 |
| Sample Wt/Vol: | 6.62 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023092.D | 1 | 08/14/25 14:00 | VY081425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 2.00 | U | 0.53 | 2.00 | 4.10 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 2.00 | U | 0.51 | 2.00 | 4.10 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 2.00 | U | 0.75 | 2.00 | 4.10 | ug/Kg |
| 591-78-6 | 2-Hexanone | 10.2 | U | 3.00 | 10.2 | 20.4 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 2.00 | U | 0.71 | 2.00 | 4.10 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 2.00 | U | 0.72 | 2.00 | 4.10 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 2.00 | U | 0.86 | 2.00 | 4.10 | ug/Kg |
| 108-90-7 | Chlorobenzene | 2.00 | U | 0.74 | 2.00 | 4.10 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 2.00 | U | 0.55 | 2.00 | 4.10 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 4.10 | U | 1.00 | 4.10 | 8.20 | ug/Kg |
| 95-47-6 | o-Xylene | 2.00 | U | 0.67 | 2.00 | 4.10 | ug/Kg |
| 100-42-5 | Styrene | 2.00 | U | 0.58 | 2.00 | 4.10 | ug/Kg |
| 75-25-2 | Bromoform | 2.00 | U | 0.70 | 2.00 | 4.10 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 2.00 | U | 0.64 | 2.00 | 4.10 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 2.00 | U | 0.99 | 2.00 | 4.10 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 2.00 | U | 1.40 | 2.00 | 4.10 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 2.00 | U | 1.30 | 2.00 | 4.10 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 2.00 | U | 1.20 | 2.00 | 4.10 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 3.30 | U | 1.50 | 3.30 | 4.10 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 3.30 | U | 2.40 | 3.30 | 4.10 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 3.30 | U | 2.60 | 3.30 | 4.10 | ug/Kg |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 62.3 | | 71 - 136 | | 125% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 53.9 | | 78 - 119 | | 108% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 51.4 | | 85 - 116 | | 103% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 40.0 | | 79 - 119 | | 80% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 501000 | 7.707 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 980000 | 8.61 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 814000 | 11.414 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 246000 | 13.34 | | | | |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/06/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 38M-S | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-16 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 92.4 |
| Sample Wt/Vol: | 6.62 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023092.D | 1 | 08/14/25 14:00 | VY081425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023092.D
Acq On : 14 Aug 2025 14:00
Operator : SY/MD
Sample : Q2819-16
Misc : 6.62g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
38M-S

Quant Time: Aug 14 14:48:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

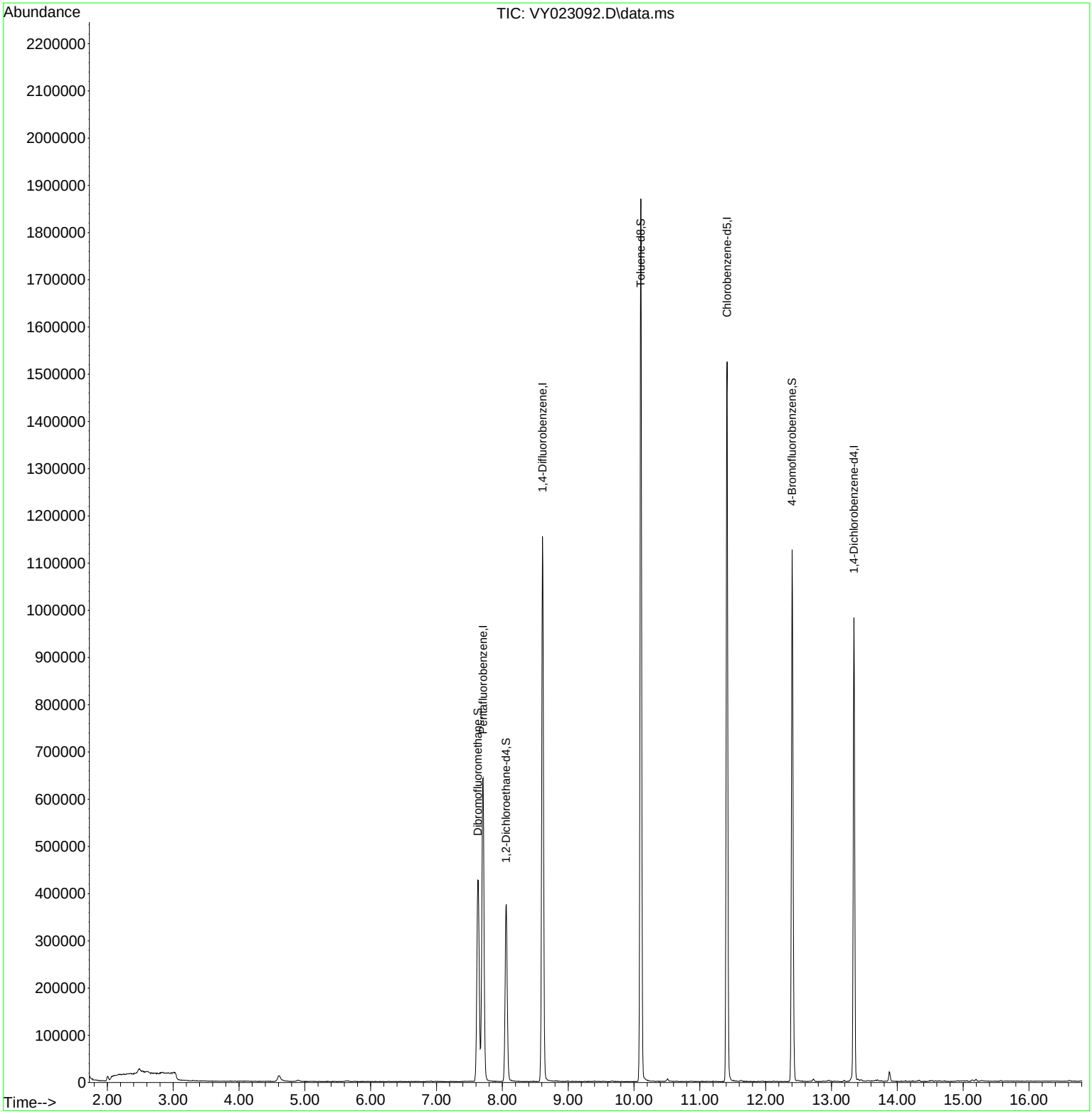
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 501292 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.610 | 114 | 980075 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 813504 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 246483 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.055 | 65 | 297813 | 62.335 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 124.660% | | | |
| 35) Dibromofluoromethane | 7.628 | 113 | 316246 | 53.926 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 107.860% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 1176737 | 51.363 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 102.720% | | | |
| 62) 4-Bromofluorobenzene | 12.402 | 95 | 294724 | 40.002 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 80.000% | | | |
| Target Compounds | | | | | | Qvalue |

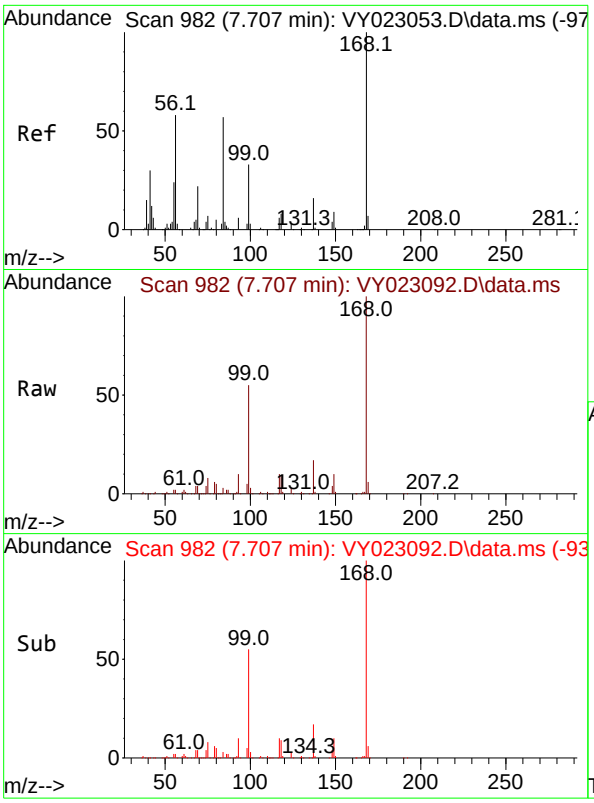
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023092.D
Acq On : 14 Aug 2025 14:00
Operator : SY/MD
Sample : Q2819-16
Misc : 6.62g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
38M-S

Quant Time: Aug 14 14:48:14 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



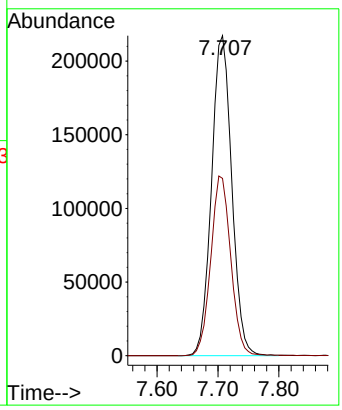


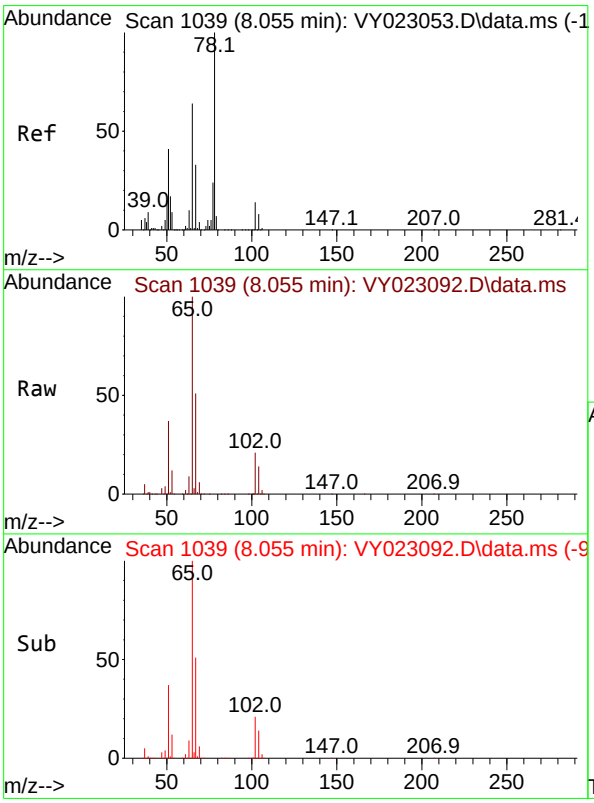

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023092.D
Acq: 14 Aug 2025 14:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
38M-S

Tgt Ion:168 Resp: 501292

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 55.4 | 42.8 | 64.2 |

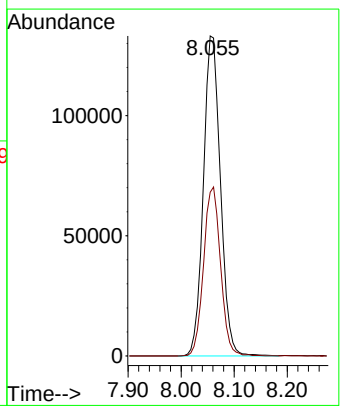


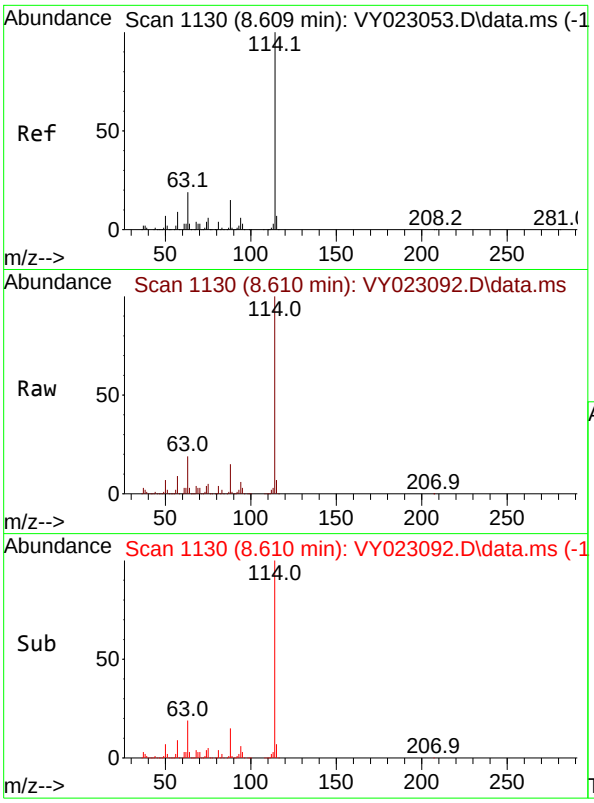




#33
1,2-Dichloroethane-d4
Concen: 62.335 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. 0.000 min
Lab File: VY023092.D
Acq: 14 Aug 2025 14:00

Tgt Ion: 65 Resp: 297813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.5 | 0.0 | 106.8 |



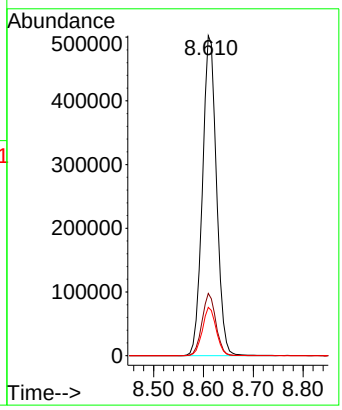


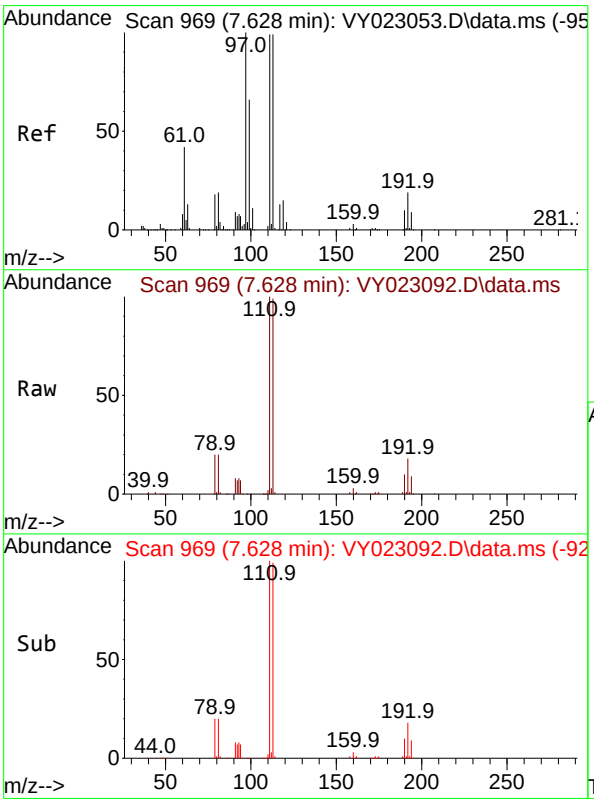

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023092.D
Acq: 14 Aug 2025 14:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
38M-S

Tgt Ion:114 Resp: 980075

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.5 | 0.0 | 38.4 |
| 88 | 15.1 | 0.0 | 30.0 |

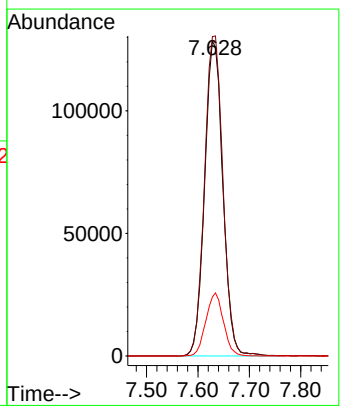


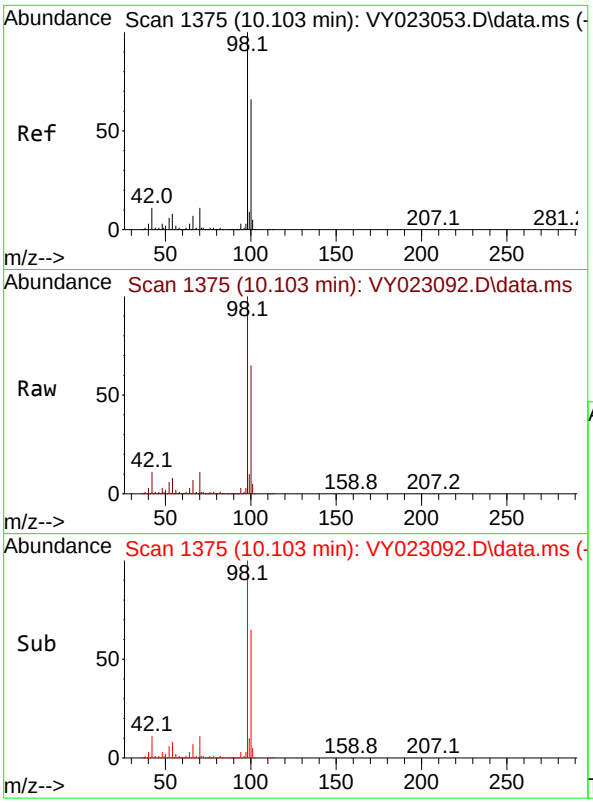




#35
Dibromofluoromethane
Concen: 53.926 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.000 min
Lab File: VY023092.D
Acq: 14 Aug 2025 14:00

Tgt Ion:113 Resp: 316246

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.3 | 81.1 | 121.7 |
| 192 | 19.3 | 16.2 | 24.4 |



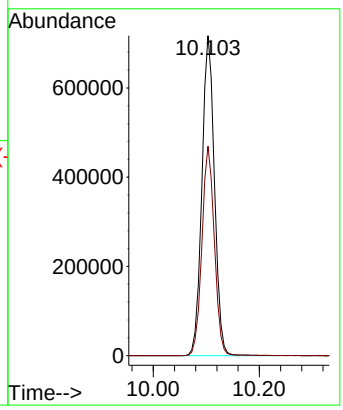


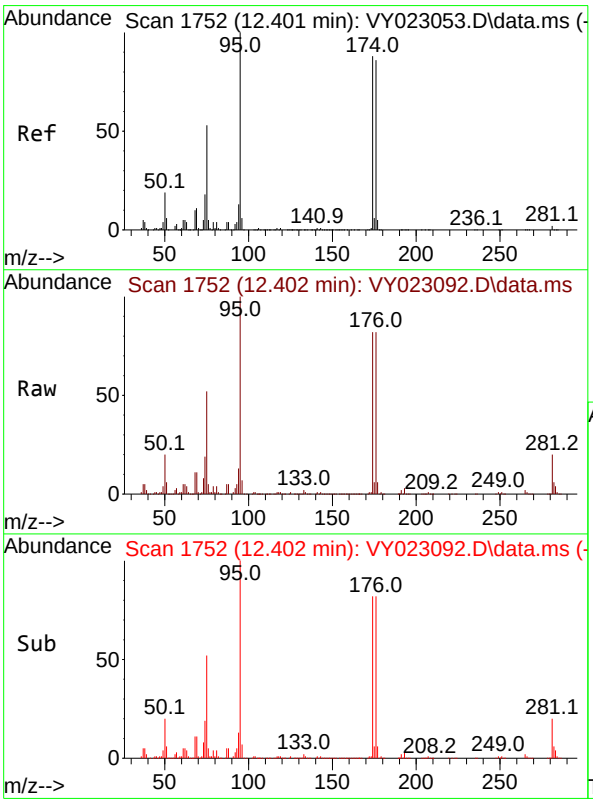

#50
Toluene-d8
Concen: 51.363 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023092.D
Acq: 14 Aug 2025 14:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
38M-S

Tgt Ion: 98 Resp: 1176737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.8 | 52.3 | 78.5 |

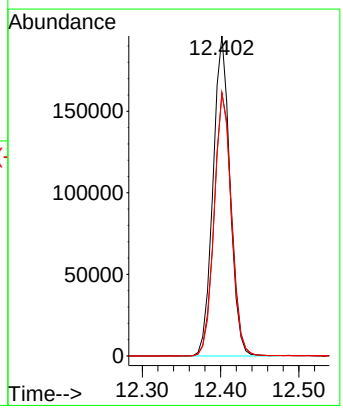


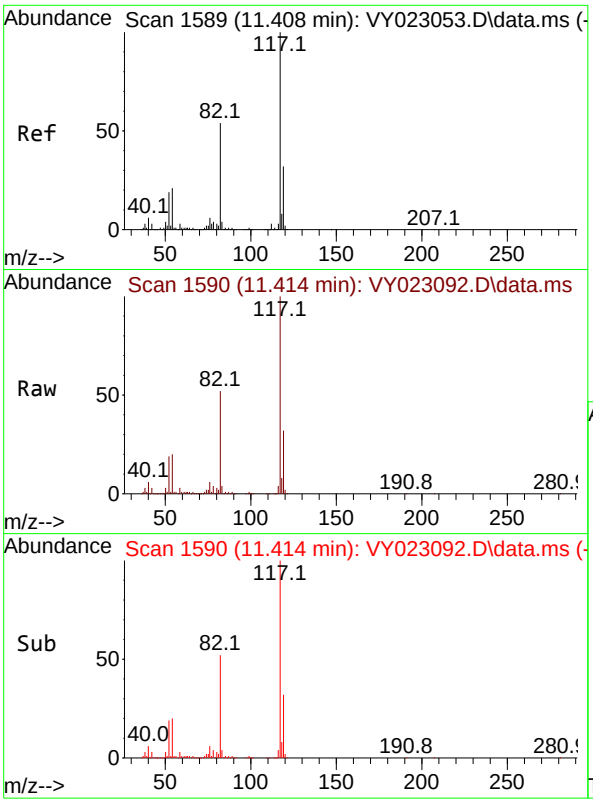




#62
4-Bromofluorobenzene
Concen: 40.002 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023092.D
Acq: 14 Aug 2025 14:00

Tgt Ion: 95 Resp: 294724

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 85.1 | 0.0 | 171.6 |
| 176 | 83.0 | 0.0 | 167.6 |



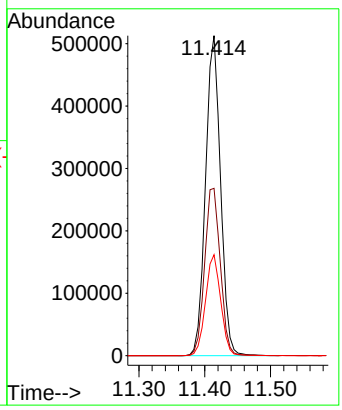


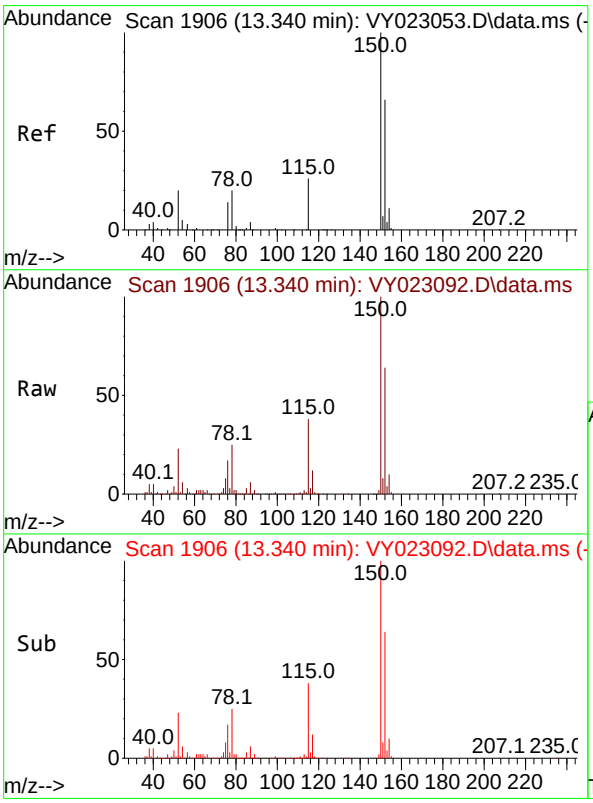

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023092.D
Acq: 14 Aug 2025 14:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
38M-S

Tgt Ion:117 Resp: 813504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 52.3 | 43.4 | 65.0 |
| 119 | 31.6 | 25.6 | 38.4 |

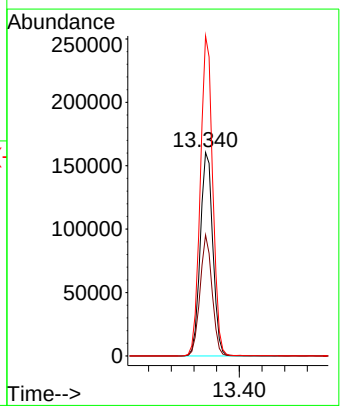



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023092.D
Acq: 14 Aug 2025 14:00

Tgt Ion:152 Resp: 246483

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 56.9 | 28.2 | 84.6 |
| 150 | 155.1 | 0.0 | 348.0 |



Sample Results: **VY023092.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023092.D
Acq On : 14 Aug 2025 14:00
Operator : SY/MD
Sample : Q2819-16
Misc : 6.62g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
38M-S

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Title : SW846 8260

Signal : TIC: VY023092.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 7.628 | 959 | 969 | 975 | rBV | 426171 | 1047753 | 33.92% | 7.129% |
| 2 | 7.707 | 975 | 982 | 996 | rVB | 640832 | 1491993 | 48.30% | 10.151% |
| 3 | 8.061 | 1030 | 1040 | 1051 | rBV | 374685 | 838961 | 27.16% | 5.708% |
| 4 | 8.610 | 1121 | 1130 | 1147 | rBV | 1154300 | 2243517 | 72.63% | 15.264% |
| 5 | 10.103 | 1365 | 1375 | 1389 | rBV | 1869499 | 3089067 | 100.00% | 21.017% |
| 6 | 11.414 | 1581 | 1590 | 1603 | rBV | 1524522 | 2497076 | 80.84% | 16.989% |
| 7 | 12.402 | 1745 | 1752 | 1762 | rBV2 | 1125728 | 1948506 | 63.08% | 13.257% |
| 8 | 13.340 | 1892 | 1906 | 1914 | rBV | 981819 | 1507341 | 48.80% | 10.255% |
| 9 | 13.877 | 1989 | 1994 | 2002 | rVB2 | 20187 | 33852 | 1.10% | 0.230% |

Sum of corrected areas: 14698066

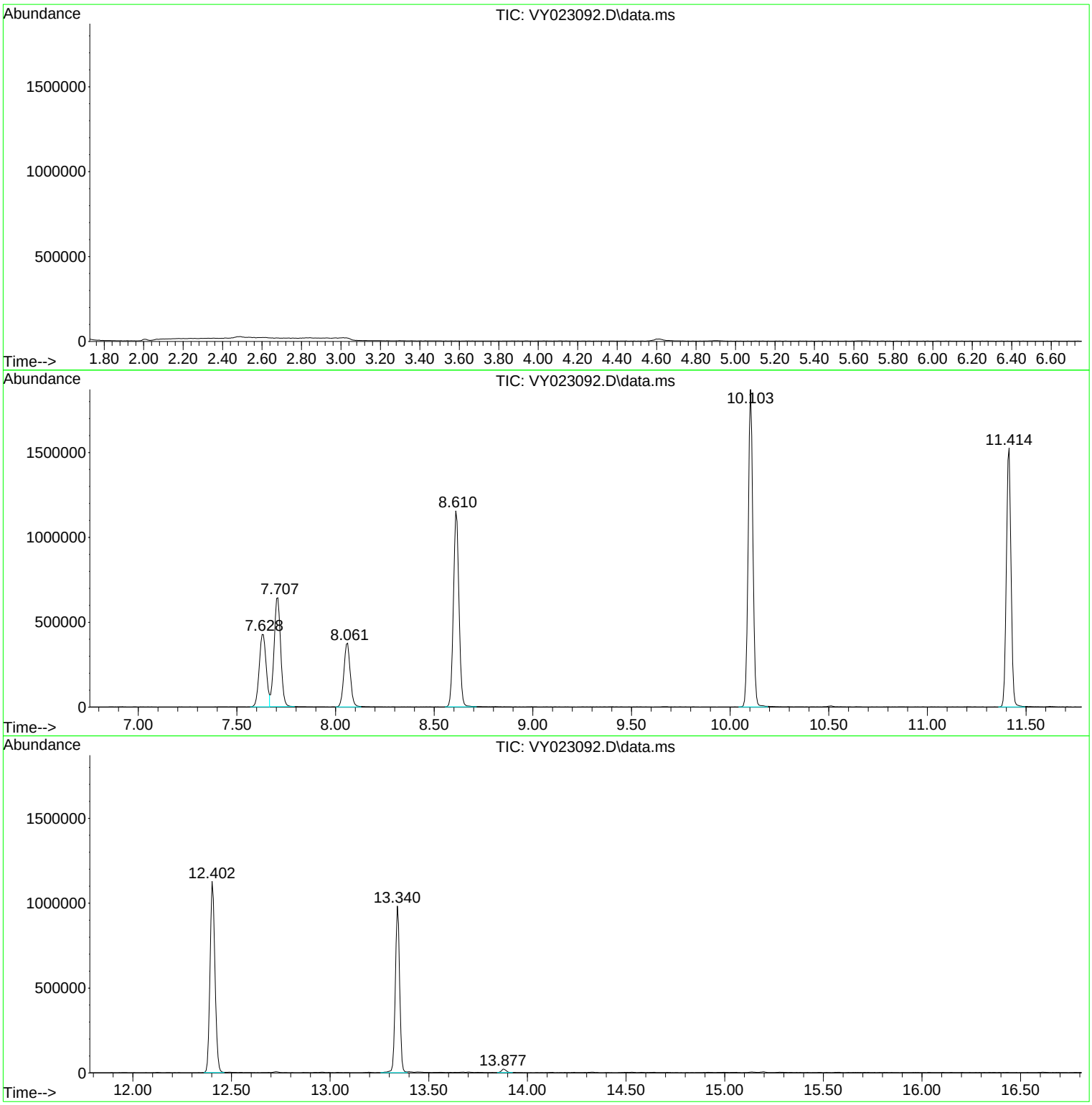
Sample Results: **VY023092.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023092.D
Acq On : 14 Aug 2025 14:00
Operator : SY/MD
Sample : Q2819-16
Misc : 6.62g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
38M-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023092.D
Acq On : 14 Aug 2025 14:00
Operator : SY/MD
Sample : Q2819-16
Misc : 6.62g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
38M-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
**********

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023092.D
Acq On : 14 Aug 2025 14:00
Operator : SY/MD
Sample : Q2819-16
Misc : 6.62g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
38M-S

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/06/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 38M-N | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-17 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 87.5 |
| Sample Wt/Vol: | 9.4 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023079.D | 1 | 08/13/25 18:51 | VY081325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 2.40 | U | 0.69 | 2.40 | 3.00 | ug/Kg |
| 74-87-3 | Chloromethane | 1.50 | U | 0.69 | 1.50 | 3.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 1.50 | U | 0.48 | 1.50 | 3.00 | ug/Kg |
| 74-83-9 | Bromomethane | 2.40 | U | 0.65 | 2.40 | 3.00 | ug/Kg |
| 75-00-3 | Chloroethane | 1.50 | U | 0.77 | 1.50 | 3.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 2.40 | U | 0.74 | 2.40 | 3.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 1.50 | U | 0.64 | 1.50 | 3.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 1.50 | U | 0.61 | 1.50 | 3.00 | ug/Kg |
| 67-64-1 | Acetone | 12.2 | U | 2.90 | 12.2 | 15.2 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 2.40 | U | 0.64 | 2.40 | 3.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 1.50 | U | 0.44 | 1.50 | 3.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 2.40 | U | 0.94 | 2.40 | 3.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 4.90 | U | 2.10 | 4.90 | 6.10 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 1.50 | U | 0.52 | 1.50 | 3.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 1.50 | U | 0.49 | 1.50 | 3.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 1.50 | U | 0.48 | 1.50 | 3.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 12.2 | U | 4.00 | 12.2 | 15.2 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 1.50 | U | 0.59 | 1.50 | 3.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 1.50 | U | 0.46 | 1.50 | 3.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 2.40 | U | 0.70 | 2.40 | 3.00 | ug/Kg |
| 67-66-3 | Chloroform | 2.40 | U | 0.51 | 2.40 | 3.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 1.50 | U | 0.57 | 1.50 | 3.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 1.50 | U | 0.55 | 1.50 | 3.00 | ug/Kg |
| 71-43-2 | Benzene | 1.50 | U | 0.48 | 1.50 | 3.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 1.50 | U | 0.48 | 1.50 | 3.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 1.50 | U | 0.49 | 1.50 | 3.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 1.50 | U | 0.55 | 1.50 | 3.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 1.50 | U | 0.47 | 1.50 | 3.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 7.60 | U | 2.20 | 7.60 | 15.2 | ug/Kg |
| 108-88-3 | Toluene | 1.50 | U | 0.47 | 1.50 | 3.00 | ug/Kg |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/06/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 38M-N | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-17 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 87.5 |
| Sample Wt/Vol: | 9.4 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023079.D | 1 | 08/13/25 18:51 | VY081325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 1.50 | U | 0.40 | 1.50 | 3.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.50 | U | 0.38 | 1.50 | 3.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 1.50 | U | 0.56 | 1.50 | 3.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 7.60 | U | 2.20 | 7.60 | 15.2 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 1.50 | U | 0.53 | 1.50 | 3.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 1.50 | U | 0.53 | 1.50 | 3.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 1.50 | U | 0.64 | 1.50 | 3.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 1.50 | U | 0.55 | 1.50 | 3.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 1.50 | U | 0.41 | 1.50 | 3.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 3.00 | U | 0.75 | 3.00 | 6.10 | ug/Kg |
| 95-47-6 | o-Xylene | 1.50 | U | 0.50 | 1.50 | 3.00 | ug/Kg |
| 100-42-5 | Styrene | 1.50 | U | 0.43 | 1.50 | 3.00 | ug/Kg |
| 75-25-2 | Bromoform | 1.50 | U | 0.52 | 1.50 | 3.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 1.50 | U | 0.47 | 1.50 | 3.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.50 | U | 0.74 | 1.50 | 3.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 1.50 | U | 1.00 | 1.50 | 3.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 1.50 | U | 0.95 | 1.50 | 3.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 1.50 | U | 0.88 | 1.50 | 3.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 2.40 | U | 1.10 | 2.40 | 3.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 2.40 | U | 1.80 | 2.40 | 3.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 2.40 | U | 1.90 | 2.40 | 3.00 | ug/Kg |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 65.0 | | 71 - 136 | | 130% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 53.4 | | 78 - 119 | | 107% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 52.8 | | 85 - 116 | | 105% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 49.9 | | 79 - 119 | | 100% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 669000 | 7.707 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 1350000 | 8.61 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 1230000 | 11.414 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 509000 | 13.34 | | | | |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/06/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 38M-N | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-17 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 87.5 |
| Sample Wt/Vol: | 9.4 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023079.D | 1 | 08/13/25 18:51 | VY081325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023079.D
Acq On : 13 Aug 2025 18:51
Operator : SY/MD
Sample : Q2819-17
Misc : 9.40g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
38M-N

Quant Time: Aug 14 01:28:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

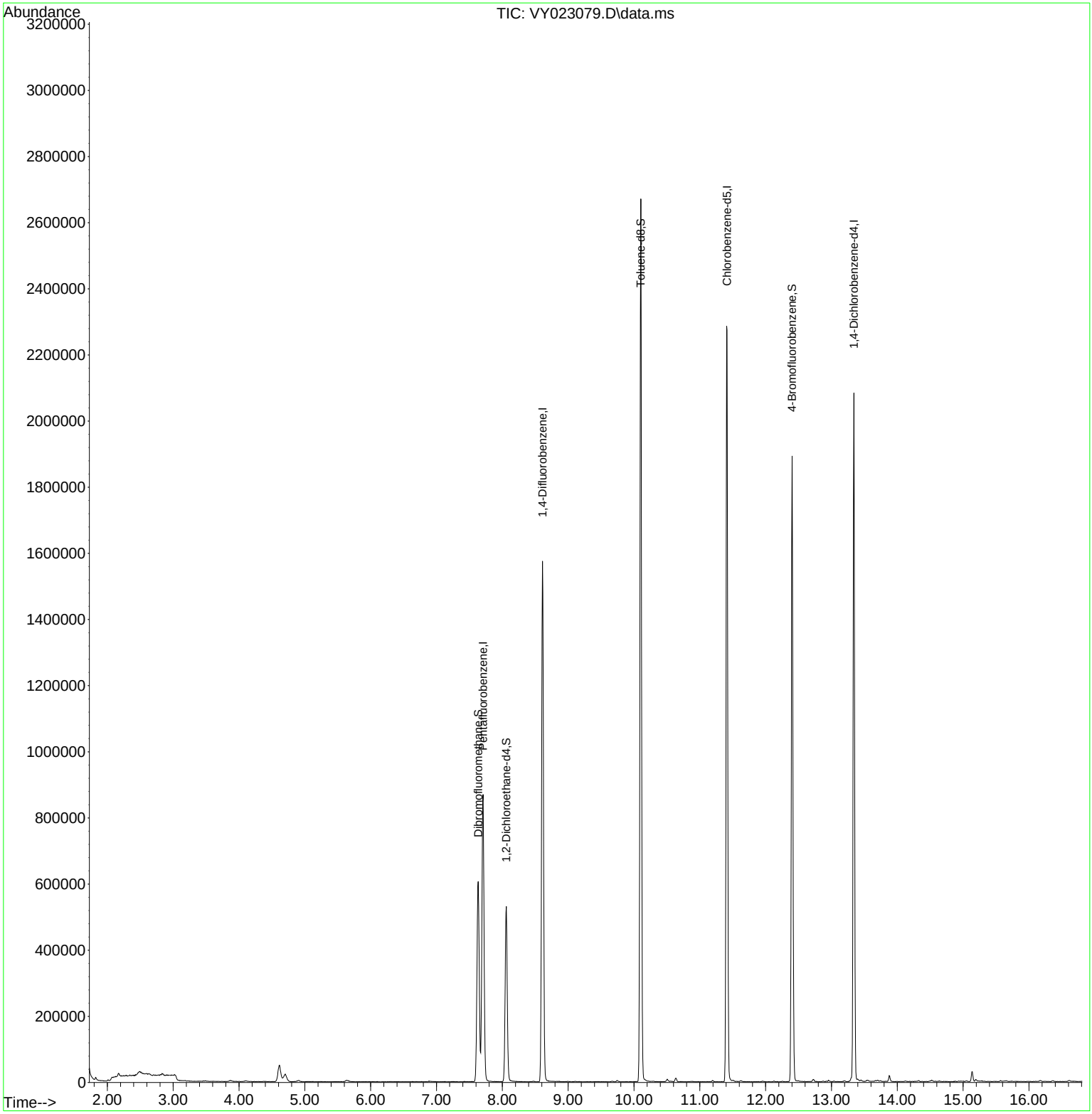
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 669452 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.610 | 114 | 1354583 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 1228757 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 509432 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 414417 | 64.952 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 129.900% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 432425 | 53.350 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 106.700% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 1670308 | 52.750 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 105.500% | | | |
| 62) 4-Bromofluorobenzene | 12.402 | 95 | 508089 | 49.895 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 99.780% | | | |
| Target Compounds | | | | | | Qvalue |

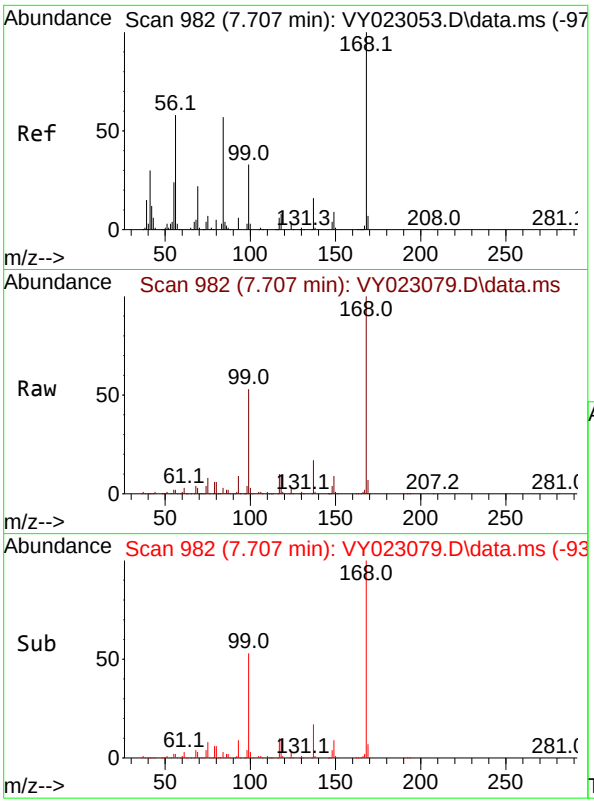
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023079.D
Acq On : 13 Aug 2025 18:51
Operator : SY/MD
Sample : Q2819-17
Misc : 9.40g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
38M-N

Quant Time: Aug 14 01:28:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



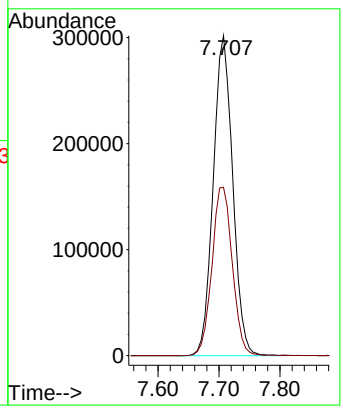


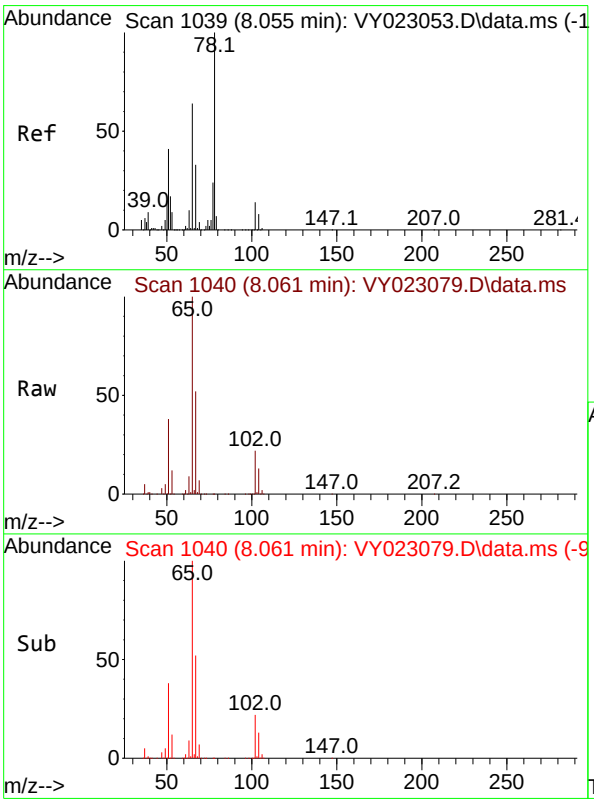

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023079.D
Acq: 13 Aug 2025 18:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
38M-N

Tgt Ion:168 Resp: 669452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 52.7 | 42.8 | 64.2 |

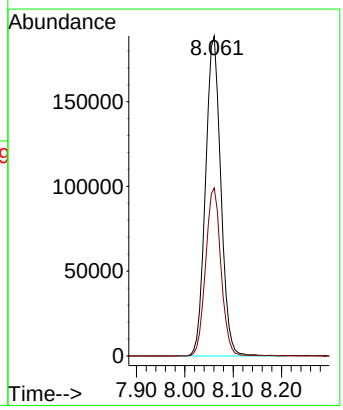


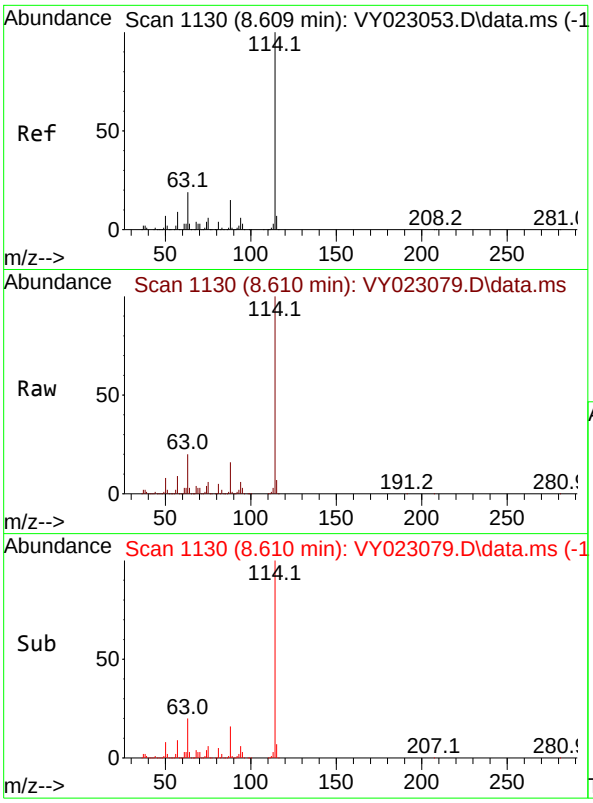




#33
1,2-Dichloroethane-d4
Concen: 64.952 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY023079.D
Acq: 13 Aug 2025 18:51

Tgt Ion: 65 Resp: 414417

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.7 | 0.0 | 106.8 |



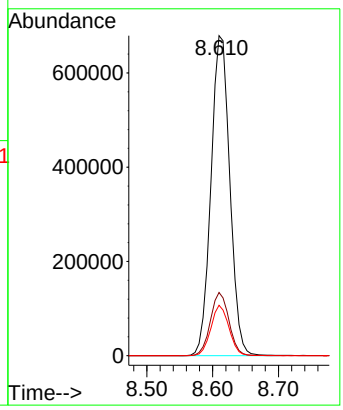


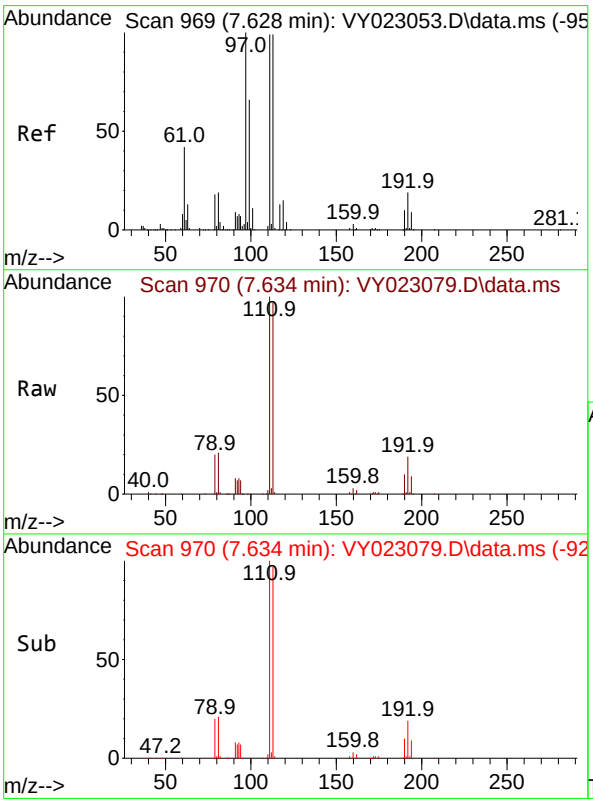

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023079.D
Acq: 13 Aug 2025 18:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
38M-N

Tgt Ion:114 Resp: 1354583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.7 | 0.0 | 38.4 |
| 88 | 15.7 | 0.0 | 30.0 |

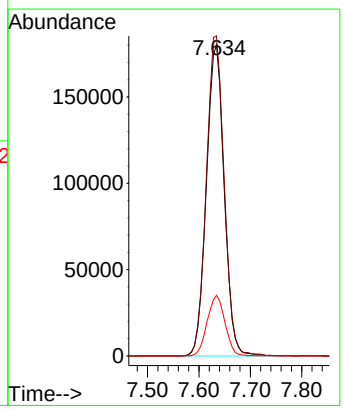


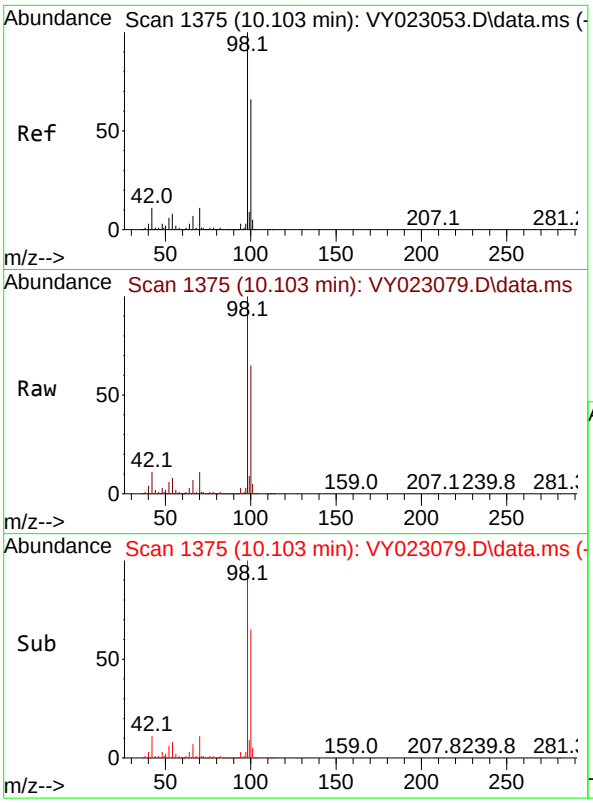




#35
Dibromofluoromethane
Concen: 53.350 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.006 min
Lab File: VY023079.D
Acq: 13 Aug 2025 18:51

Tgt Ion:113 Resp: 432425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.7 | 81.1 | 121.7 |
| 192 | 19.5 | 16.2 | 24.4 |



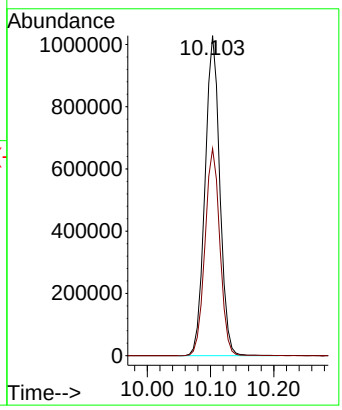


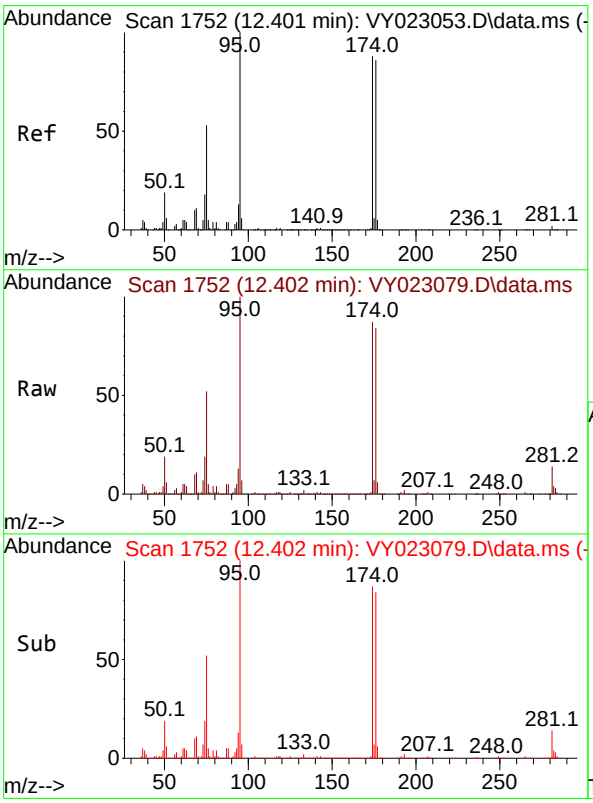

#50
Toluene-d8
Concen: 52.750 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023079.D
Acq: 13 Aug 2025 18:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
38M-N

Tgt Ion: 98 Resp: 1670308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.2 | 52.3 | 78.5 |

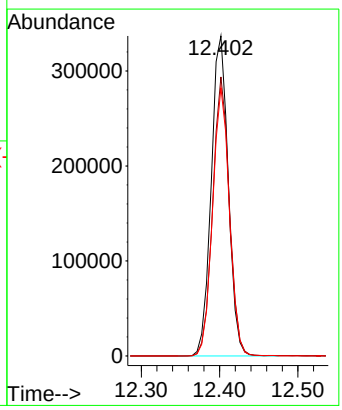


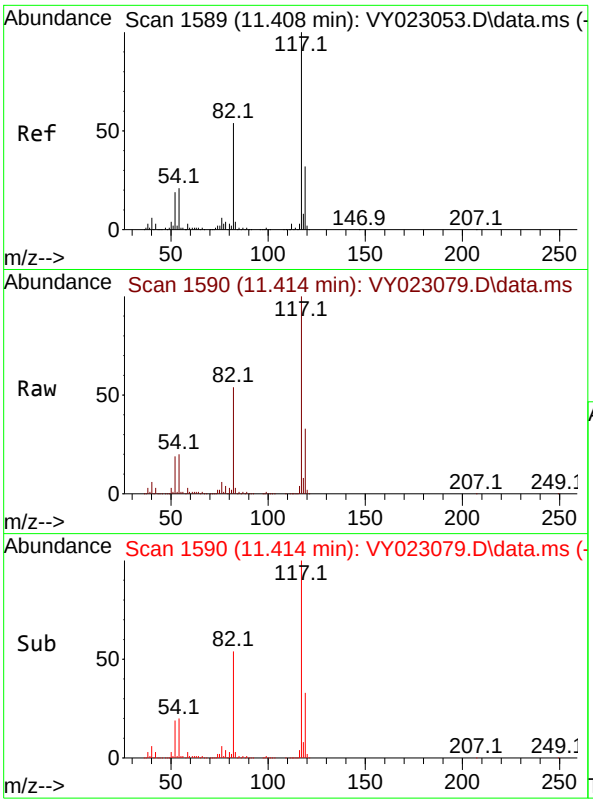




#62
4-Bromofluorobenzene
Concen: 49.895 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023079.D
Acq: 13 Aug 2025 18:51

Tgt Ion: 95 Resp: 508089

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 85.6 | 0.0 | 171.6 |
| 176 | 82.9 | 0.0 | 167.6 |



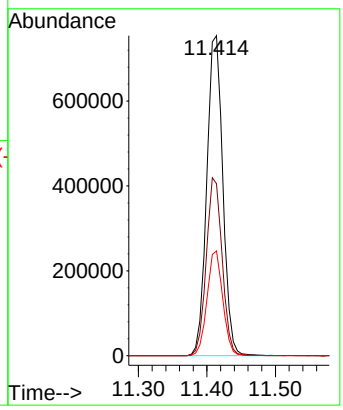


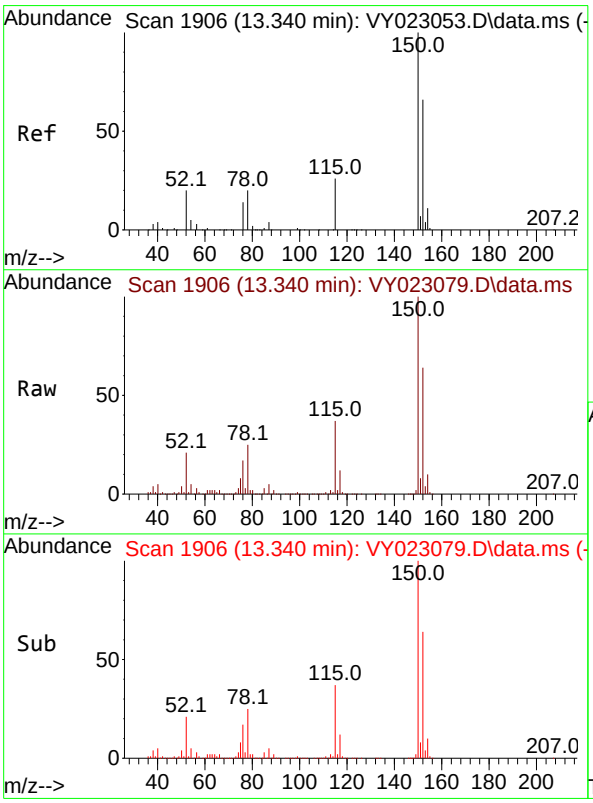

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023079.D
Acq: 13 Aug 2025 18:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
38M-N

Tgt Ion:117 Resp: 1228757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 53.7 | 43.4 | 65.0 |
| 119 | 32.7 | 25.6 | 38.4 |

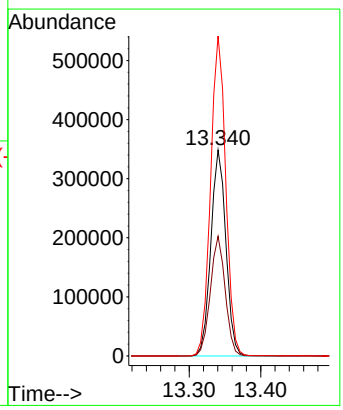



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023079.D
Acq: 13 Aug 2025 18:51

Tgt Ion:152 Resp: 509432

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.5 | 28.2 | 84.6 |
| 150 | 156.3 | 0.0 | 348.0 |



Sample Results: **VY023079.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023079.D
Acq On : 13 Aug 2025 18:51
Operator : SY/MD
Sample : Q2819-17
Misc : 9.40g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
38M-N

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Title : SW846 8260

Signal : TIC: VY023079.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.610 | 463 | 474 | 482 | rBV | 49575 | 153928 | 3.50% | 0.689% |
| 2 | 4.702 | 483 | 489 | 503 | rVB3 | 22791 | 73445 | 1.67% | 0.329% |
| 3 | 7.634 | 958 | 970 | 976 | rBV | 605399 | 1468048 | 33.41% | 6.576% |
| 4 | 7.707 | 976 | 982 | 993 | rVB | 866218 | 1943161 | 44.22% | 8.704% |
| 5 | 8.061 | 1029 | 1040 | 1052 | rBV | 530358 | 1174427 | 26.73% | 5.261% |
| 6 | 8.610 | 1121 | 1130 | 1142 | rBV | 1574614 | 3104458 | 70.64% | 13.906% |
| 7 | 10.103 | 1366 | 1375 | 1392 | rBV | 2669785 | 4394455 | 100.00% | 19.684% |
| 8 | 11.408 | 1582 | 1589 | 1602 | rBV | 2284205 | 3750588 | 85.35% | 16.800% |
| 9 | 12.402 | 1742 | 1752 | 1764 | rBV2 | 1892445 | 3105679 | 70.67% | 13.911% |
| 10 | 13.340 | 1892 | 1906 | 1914 | rBV | 2082756 | 3105953 | 70.68% | 13.913% |
| 11 | 15.139 | 2195 | 2201 | 2206 | rBV | 30136 | 50763 | 1.16% | 0.227% |

Sum of corrected areas: 22324905

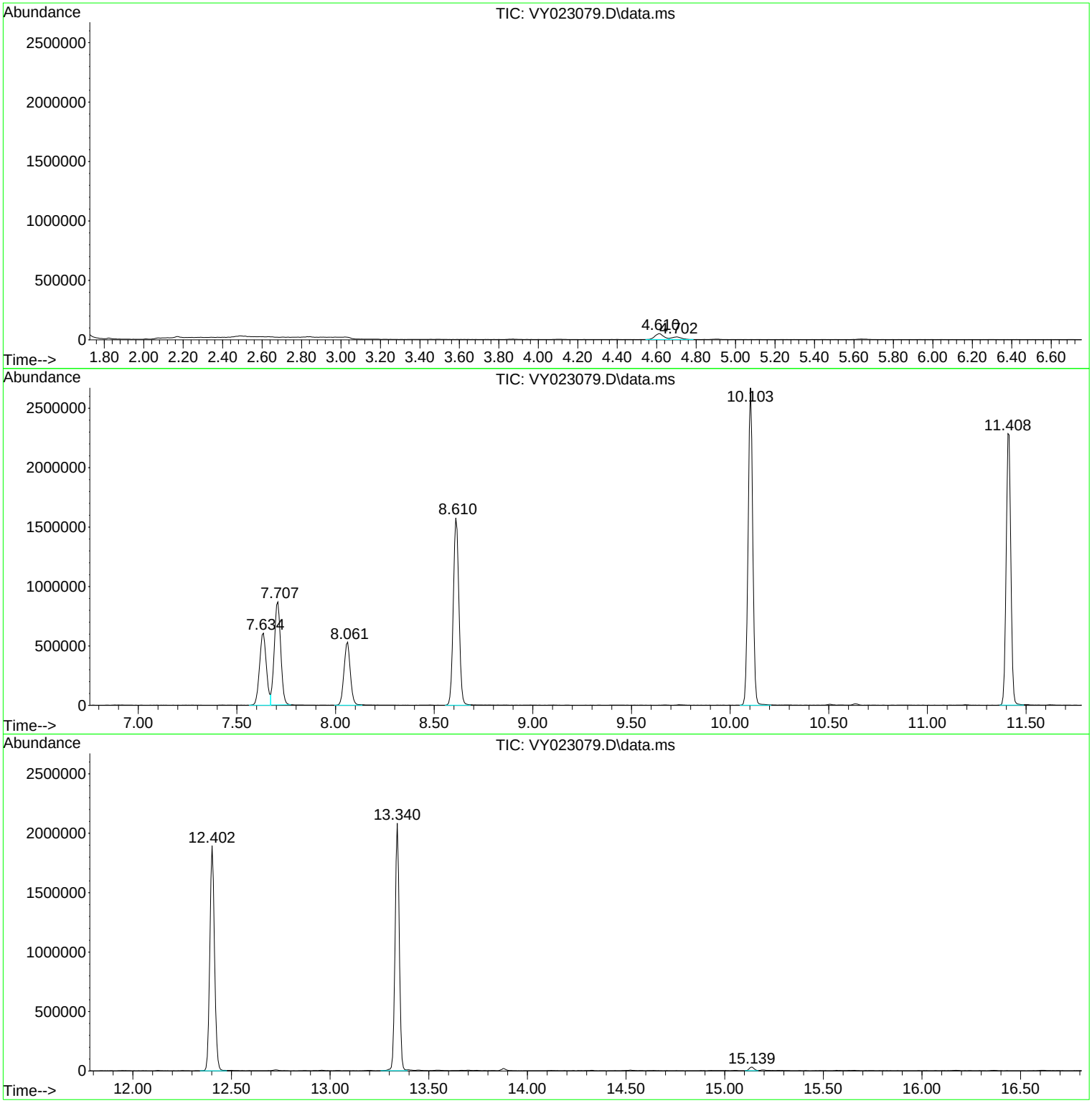
Sample Results: **VY023079.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023079.D
Acq On : 13 Aug 2025 18:51
Operator : SY/MD
Sample : Q2819-17
Misc : 9.40g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
38M-N

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023079.D
Acq On : 13 Aug 2025 18:51
Operator : SY/MD
Sample : Q2819-17
Misc : 9.40g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
38M-N

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
**********

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023079.D
Acq On : 13 Aug 2025 18:51
Operator : SY/MD
Sample : Q2819-17
Misc : 9.40g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 22 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
38M-N

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name | RT | EstConc | Units | Response | Internal Standard # | Internal Standard RT | Internal Standard Resp | Internal Standard Conc |
|---|---|---|---|---|---|---|---|---|

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/06/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 38M-W | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-18 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 86.3 |
| Sample Wt/Vol: | 9.39 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023080.D | 1 | 08/13/25 19:14 | VY081325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 2.50 | U | 0.70 | 2.50 | 3.10 | ug/Kg |
| 74-87-3 | Chloromethane | 1.50 | U | 0.70 | 1.50 | 3.10 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 1.50 | U | 0.49 | 1.50 | 3.10 | ug/Kg |
| 74-83-9 | Bromomethane | 2.50 | U | 0.66 | 2.50 | 3.10 | ug/Kg |
| 75-00-3 | Chloroethane | 1.50 | U | 0.78 | 1.50 | 3.10 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 2.50 | U | 0.75 | 2.50 | 3.10 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 1.50 | U | 0.65 | 1.50 | 3.10 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 1.50 | U | 0.62 | 1.50 | 3.10 | ug/Kg |
| 67-64-1 | Acetone | 12.3 | U | 2.90 | 12.3 | 15.4 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 2.50 | U | 0.65 | 2.50 | 3.10 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 1.50 | U | 0.45 | 1.50 | 3.10 | ug/Kg |
| 79-20-9 | Methyl Acetate | 2.50 | U | 0.95 | 2.50 | 3.10 | ug/Kg |
| 75-09-2 | Methylene Chloride | 4.90 | U | 2.20 | 4.90 | 6.20 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 1.50 | U | 0.53 | 1.50 | 3.10 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 1.50 | U | 0.49 | 1.50 | 3.10 | ug/Kg |
| 110-82-7 | Cyclohexane | 1.50 | U | 0.49 | 1.50 | 3.10 | ug/Kg |
| 78-93-3 | 2-Butanone | 12.3 | U | 4.00 | 12.3 | 15.4 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 1.50 | U | 0.60 | 1.50 | 3.10 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 1.50 | U | 0.46 | 1.50 | 3.10 | ug/Kg |
| 74-97-5 | Bromochloromethane | 2.50 | U | 0.71 | 2.50 | 3.10 | ug/Kg |
| 67-66-3 | Chloroform | 2.50 | U | 0.52 | 2.50 | 3.10 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 1.50 | U | 0.57 | 1.50 | 3.10 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 1.50 | U | 0.56 | 1.50 | 3.10 | ug/Kg |
| 71-43-2 | Benzene | 1.50 | U | 0.49 | 1.50 | 3.10 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 1.50 | U | 0.49 | 1.50 | 3.10 | ug/Kg |
| 79-01-6 | Trichloroethene | 1.50 | U | 0.50 | 1.50 | 3.10 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 1.50 | U | 0.56 | 1.50 | 3.10 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 1.50 | U | 0.48 | 1.50 | 3.10 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 7.70 | U | 2.20 | 7.70 | 15.4 | ug/Kg |
| 108-88-3 | Toluene | 1.50 | U | 0.48 | 1.50 | 3.10 | ug/Kg |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/06/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 38M-W | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-18 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 86.3 |
| Sample Wt/Vol: | 9.39 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023080.D | 1 | 08/13/25 19:14 | VY081325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 1.50 | U | 0.40 | 1.50 | 3.10 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.50 | U | 0.38 | 1.50 | 3.10 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 1.50 | U | 0.57 | 1.50 | 3.10 | ug/Kg |
| 591-78-6 | 2-Hexanone | 7.70 | U | 2.30 | 7.70 | 15.4 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 1.50 | U | 0.54 | 1.50 | 3.10 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 1.50 | U | 0.54 | 1.50 | 3.10 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 1.50 | U | 0.65 | 1.50 | 3.10 | ug/Kg |
| 108-90-7 | Chlorobenzene | 1.50 | U | 0.56 | 1.50 | 3.10 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 1.50 | U | 0.41 | 1.50 | 3.10 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 3.10 | U | 0.77 | 3.10 | 6.20 | ug/Kg |
| 95-47-6 | o-Xylene | 1.50 | U | 0.51 | 1.50 | 3.10 | ug/Kg |
| 100-42-5 | Styrene | 1.50 | U | 0.44 | 1.50 | 3.10 | ug/Kg |
| 75-25-2 | Bromoform | 1.50 | U | 0.53 | 1.50 | 3.10 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 1.50 | U | 0.48 | 1.50 | 3.10 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.50 | U | 0.75 | 1.50 | 3.10 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 1.50 | U | 1.10 | 1.50 | 3.10 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 1.50 | U | 0.96 | 1.50 | 3.10 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 1.50 | U | 0.89 | 1.50 | 3.10 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 2.50 | U | 1.10 | 2.50 | 3.10 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 2.50 | U | 1.80 | 2.50 | 3.10 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 2.50 | U | 2.00 | 2.50 | 3.10 | ug/Kg |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 61.8 | | 71 - 136 | | 124% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 53.3 | | 78 - 119 | | 107% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 52.8 | | 85 - 116 | | 106% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 47.9 | | 79 - 119 | | 96% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 629000 | 7.707 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 1260000 | 8.609 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 1130000 | 11.414 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 454000 | 13.34 | | | | |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/06/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 38M-W | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-18 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 86.3 |
| Sample Wt/Vol: | 9.39 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023080.D | 1 | 08/13/25 19:14 | VY081325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023080.D
Acq On : 13 Aug 2025 19:14
Operator : SY/MD
Sample : Q2819-18
Misc : 9.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
38M-W

Quant Time: Aug 14 01:28:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 629431 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.609 | 114 | 1263312 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 1125973 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 453970 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 370843 | 61.818 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 123.640% | | | |
| 35) Dibromofluoromethane | 7.628 | 113 | 403184 | 53.336 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 106.680% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 1558908 | 52.789 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 105.580% | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 454520 | 47.859 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 95.720% | | | |

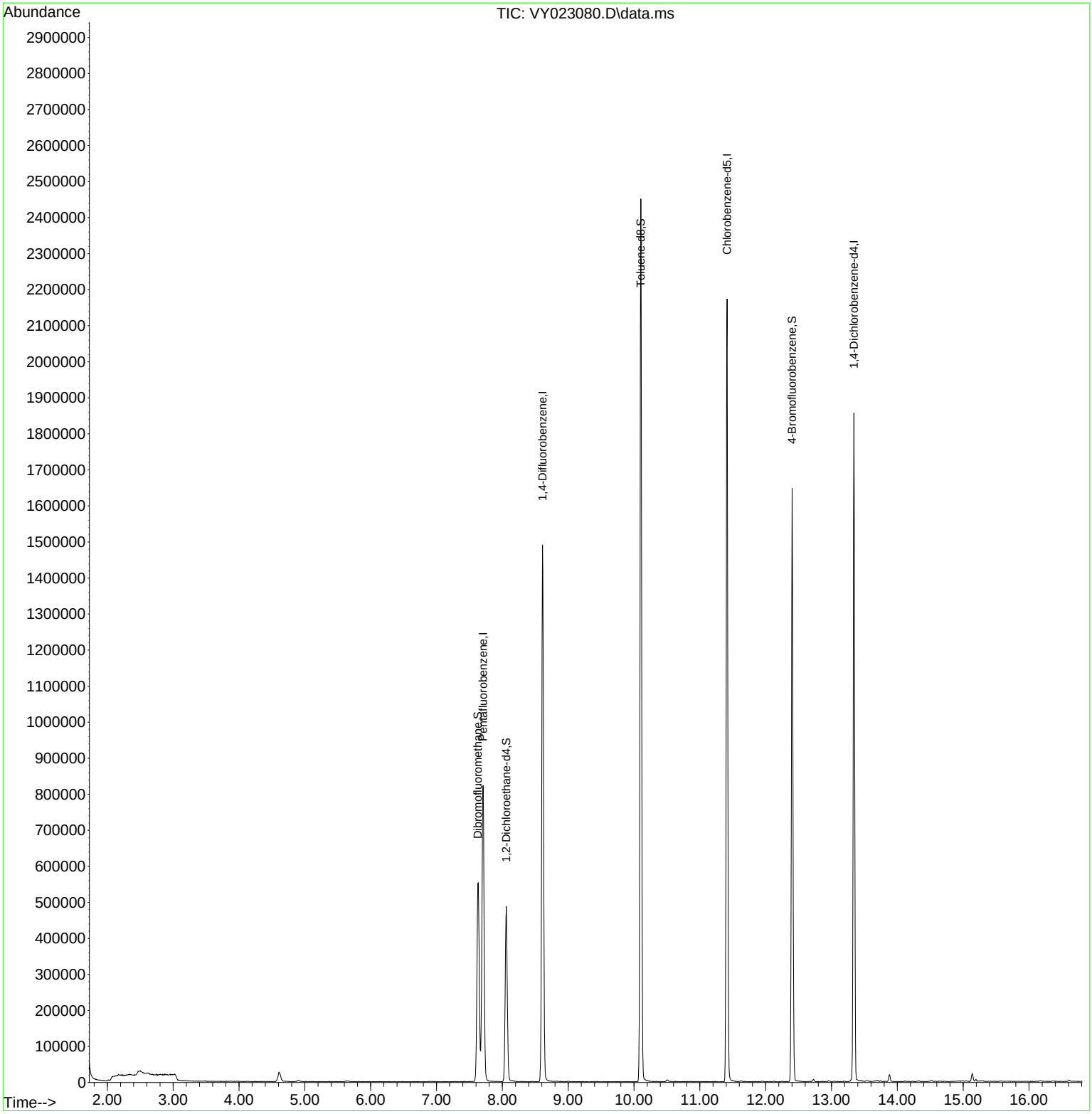
Target Compounds Qvalue

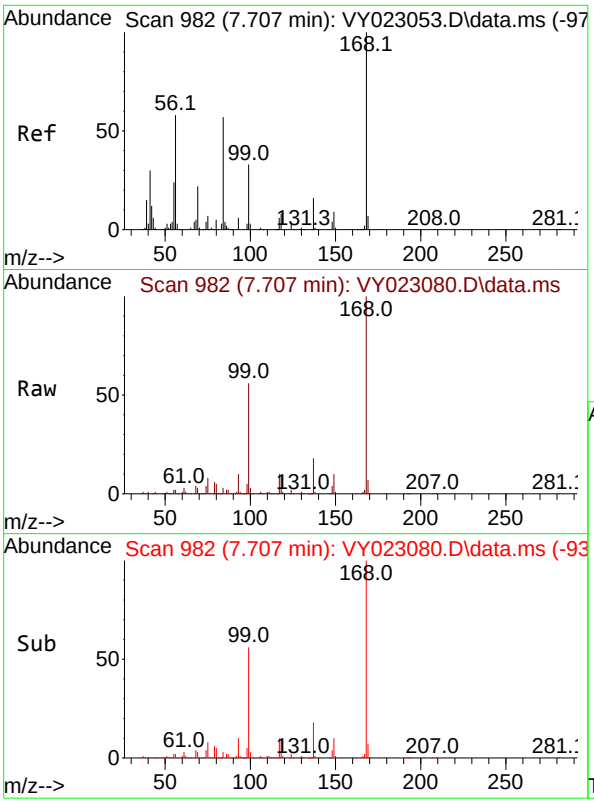
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023080.D
Acq On : 13 Aug 2025 19:14
Operator : SY/MD
Sample : Q2819-18
Misc : 9.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
38M-W

Quant Time: Aug 14 01:28:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



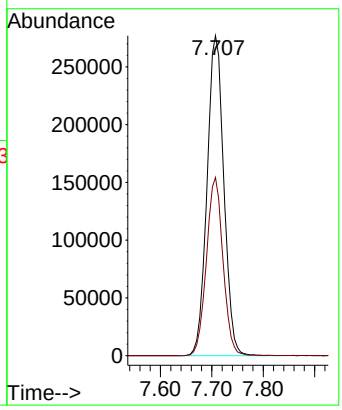


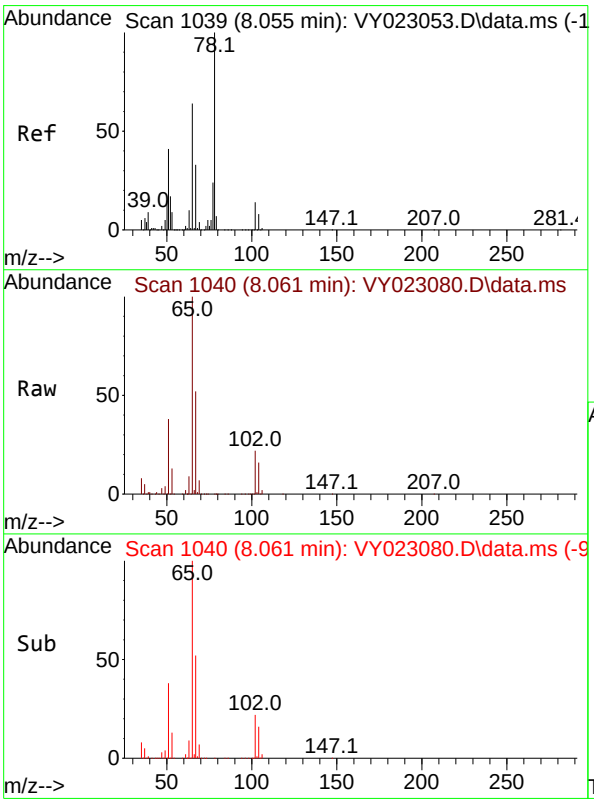

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023080.D
Acq: 13 Aug 2025 19:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
38M-W

Tgt Ion:168 Resp: 629431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 55.7 | 42.8 | 64.2 |

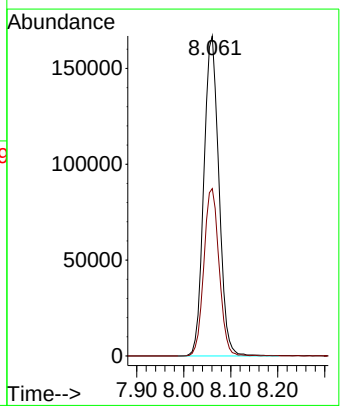


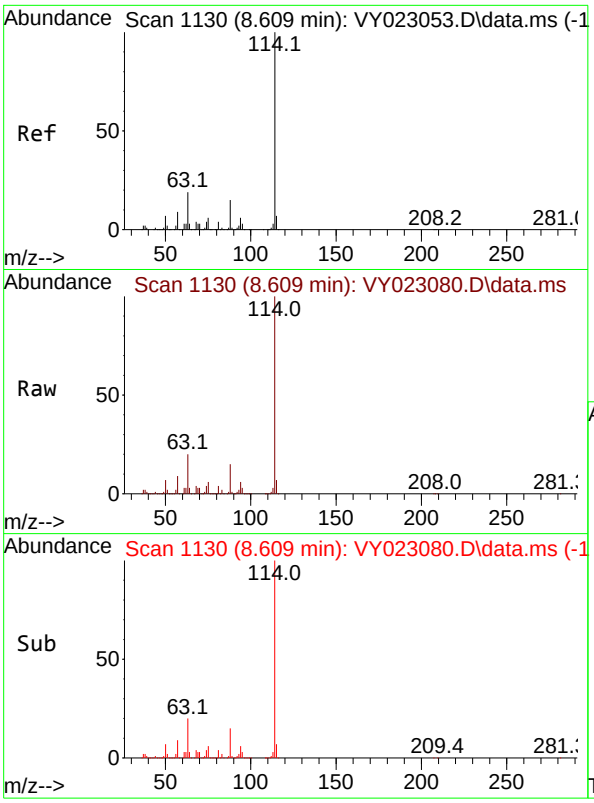




#33
1,2-Dichloroethane-d4
Concen: 61.818 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY023080.D
Acq: 13 Aug 2025 19:14

Tgt Ion: 65 Resp: 370843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.8 | 0.0 | 106.8 |



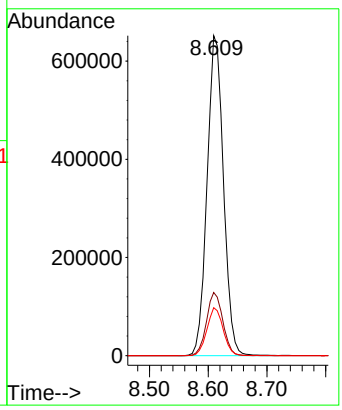


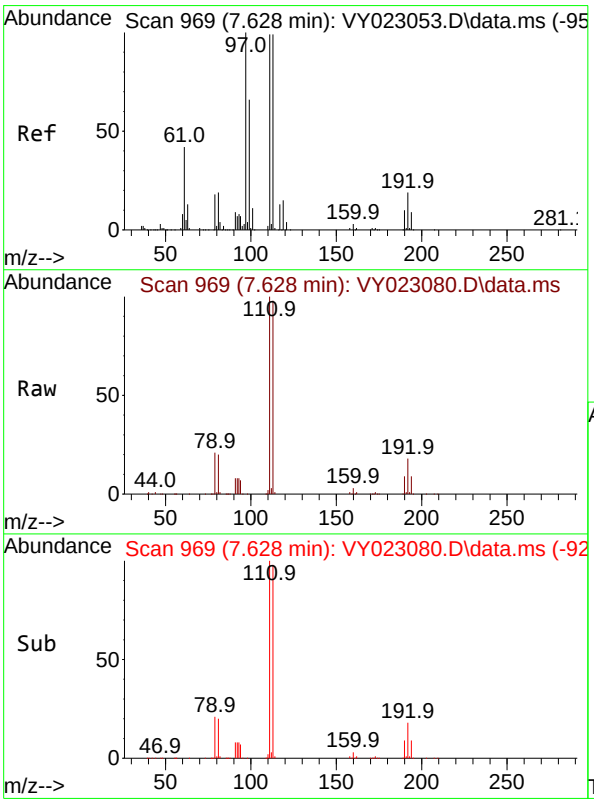

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023080.D
Acq: 13 Aug 2025 19:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
38M-W

Tgt Ion:114 Resp: 1263312

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.7 | 0.0 | 38.4 |
| 88 | 15.0 | 0.0 | 30.0 |

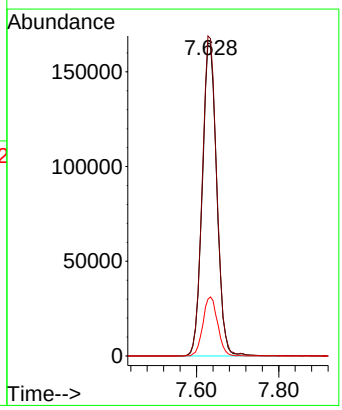


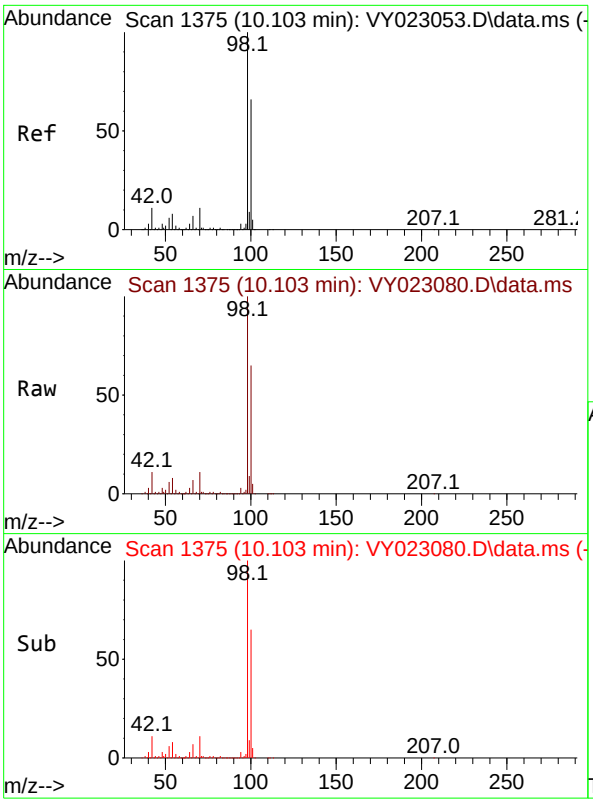




#35
Dibromofluoromethane
Concen: 53.336 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.000 min
Lab File: VY023080.D
Acq: 13 Aug 2025 19:14

Tgt Ion:113 Resp: 403184

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.7 | 81.1 | 121.7 |
| 192 | 19.1 | 16.2 | 24.4 |



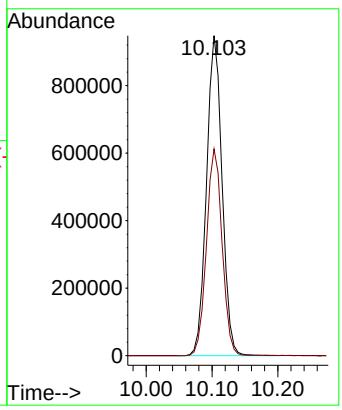


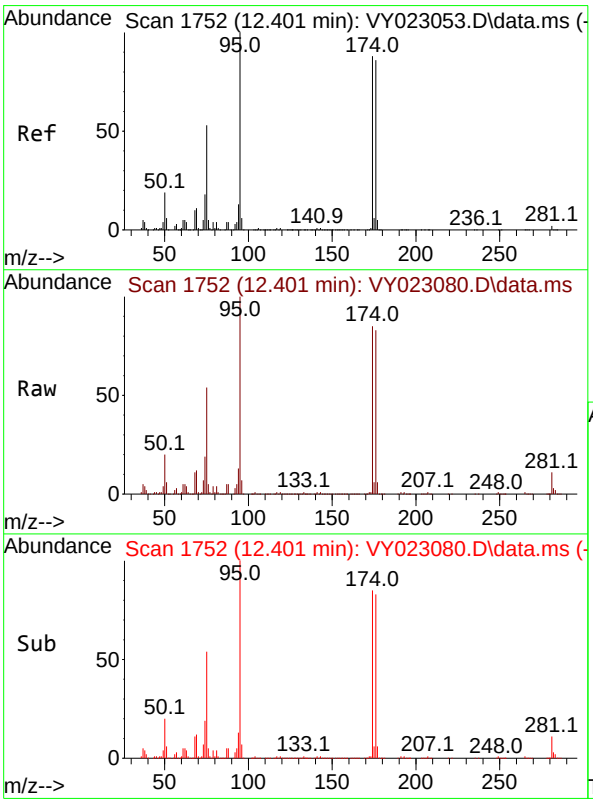

#50
Toluene-d8
Concen: 52.789 ug/l
RT: 10.103 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023080.D
Acq: 13 Aug 2025 19:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
38M-W

Tgt Ion: 98 Resp: 1558908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.1 | 52.3 | 78.5 |

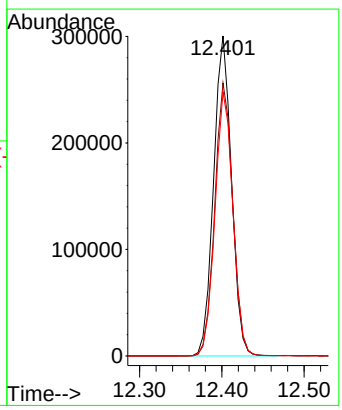


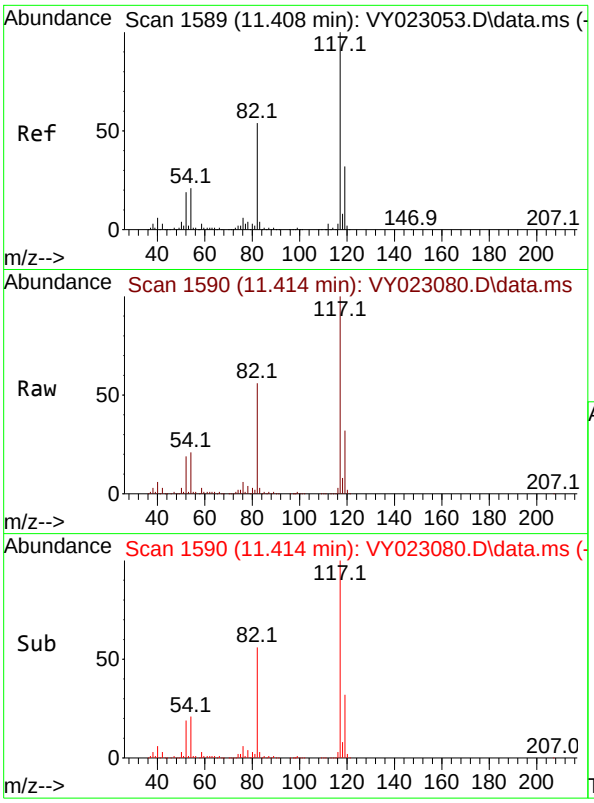




#62
4-Bromofluorobenzene
Concen: 47.859 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023080.D
Acq: 13 Aug 2025 19:14

Tgt Ion: 95 Resp: 454520

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 86.1 | 0.0 | 171.6 |
| 176 | 82.7 | 0.0 | 167.6 |



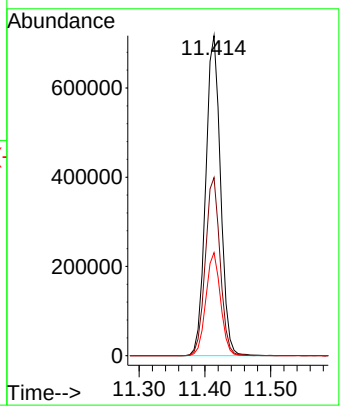


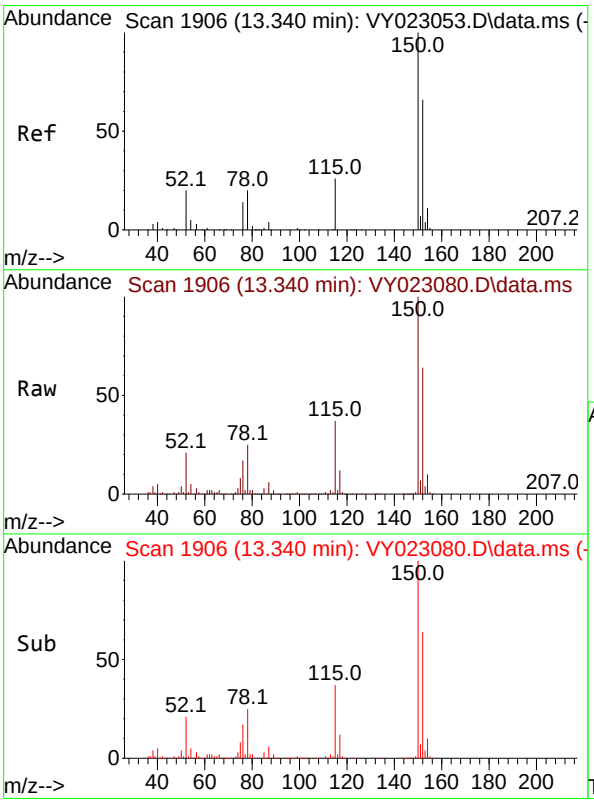

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023080.D
Acq: 13 Aug 2025 19:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
38M-W

Tgt Ion:117 Resp: 1125973

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 55.6 | 43.4 | 65.0 |
| 119 | 32.2 | 25.6 | 38.4 |

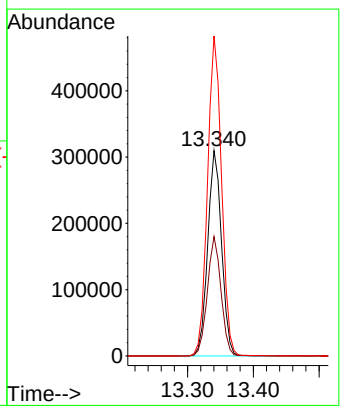



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. -0.000 min
Lab File: VY023080.D
Acq: 13 Aug 2025 19:14

Tgt Ion:152 Resp: 453970

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.3 | 28.2 | 84.6 |
| 150 | 157.5 | 0.0 | 348.0 |



Sample Results: **VY023080.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023080.D
Acq On : 13 Aug 2025 19:14
Operator : SY/MD
Sample : Q2819-18
Misc : 9.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
38M-W

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Title : SW846 8260

Signal : TIC: VY023080.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.604 | 464 | 473 | 485 | rBV3 | 25893 | 78248 | 1.91% | 0.387% |
| 2 | 7.634 | 958 | 970 | 976 | rBV | 551376 | 1354289 | 33.11% | 6.693% |
| 3 | 7.707 | 976 | 982 | 998 | rVB | 821069 | 1840072 | 44.99% | 9.094% |
| 4 | 8.061 | 1029 | 1040 | 1054 | rBV | 486143 | 1063876 | 26.01% | 5.258% |
| 5 | 8.609 | 1120 | 1130 | 1146 | rBV | 1489860 | 2897683 | 70.84% | 14.321% |
| 6 | 10.103 | 1367 | 1375 | 1395 | rBV | 2449861 | 4090412 | 100.00% | 20.216% |
| 7 | 11.414 | 1582 | 1590 | 1602 | rBV | 2172936 | 3436880 | 84.02% | 16.986% |
| 8 | 12.401 | 1741 | 1752 | 1765 | rBV2 | 1647218 | 2695833 | 65.91% | 13.324% |
| 9 | 13.340 | 1893 | 1906 | 1921 | rBV | 1855044 | 2775852 | 67.86% | 13.719% |

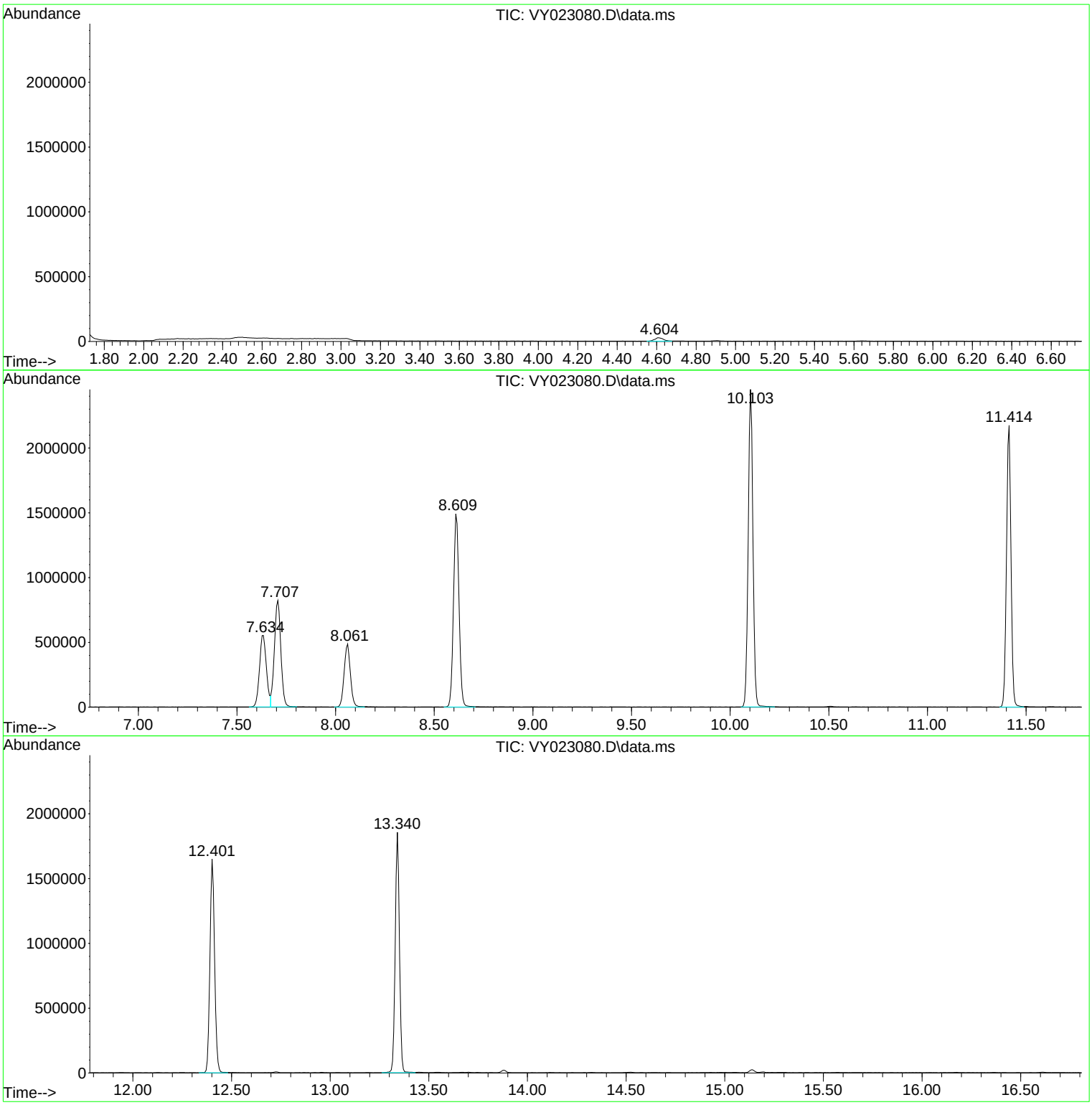
Sum of corrected areas: 20233145

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023080.D
Acq On : 13 Aug 2025 19:14
Operator : SY/MD
Sample : Q2819-18
Misc : 9.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
38M-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023080.D
Acq On : 13 Aug 2025 19:14
Operator : SY/MD
Sample : Q2819-18
Misc : 9.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
38M-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
**********

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023080.D
Acq On : 13 Aug 2025 19:14
Operator : SY/MD
Sample : Q2819-18
Misc : 9.39g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
38M-W

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name | RT | EstConc | Units | Response | Internal Standard # | Internal Standard RT | Internal Standard Resp | Internal Standard Conc |
|---|---|---|---|---|---|---|---|---|

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/06/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 38M-E | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-19 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 87.8 |
| Sample Wt/Vol: | 6.73 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023081.D | 1 | 08/13/25 19:38 | VY081325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 3.40 | U | 0.96 | 3.40 | 4.20 | ug/Kg |
| 74-87-3 | Chloromethane | 2.10 | U | 0.96 | 2.10 | 4.20 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 2.10 | U | 0.67 | 2.10 | 4.20 | ug/Kg |
| 74-83-9 | Bromomethane | 3.40 | U | 0.91 | 3.40 | 4.20 | ug/Kg |
| 75-00-3 | Chloroethane | 2.10 | U | 1.10 | 2.10 | 4.20 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 3.40 | U | 1.00 | 3.40 | 4.20 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 2.10 | U | 0.90 | 2.10 | 4.20 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 2.10 | U | 0.85 | 2.10 | 4.20 | ug/Kg |
| 67-64-1 | Acetone | 16.9 | U | 4.00 | 16.9 | 21.2 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 3.40 | U | 0.90 | 3.40 | 4.20 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 2.10 | U | 0.62 | 2.10 | 4.20 | ug/Kg |
| 79-20-9 | Methyl Acetate | 3.40 | U | 1.30 | 3.40 | 4.20 | ug/Kg |
| 75-09-2 | Methylene Chloride | 6.80 | U | 3.00 | 6.80 | 8.50 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 2.10 | U | 0.73 | 2.10 | 4.20 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 2.10 | U | 0.68 | 2.10 | 4.20 | ug/Kg |
| 110-82-7 | Cyclohexane | 2.10 | U | 0.67 | 2.10 | 4.20 | ug/Kg |
| 78-93-3 | 2-Butanone | 16.9 | U | 5.50 | 16.9 | 21.2 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 2.10 | U | 0.82 | 2.10 | 4.20 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 2.10 | U | 0.63 | 2.10 | 4.20 | ug/Kg |
| 74-97-5 | Bromochloromethane | 3.40 | U | 0.97 | 3.40 | 4.20 | ug/Kg |
| 67-66-3 | Chloroform | 3.40 | U | 0.71 | 3.40 | 4.20 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 2.10 | U | 0.79 | 2.10 | 4.20 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 2.10 | U | 0.77 | 2.10 | 4.20 | ug/Kg |
| 71-43-2 | Benzene | 2.10 | U | 0.67 | 2.10 | 4.20 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 2.10 | U | 0.67 | 2.10 | 4.20 | ug/Kg |
| 79-01-6 | Trichloroethene | 2.10 | U | 0.69 | 2.10 | 4.20 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 2.10 | U | 0.77 | 2.10 | 4.20 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 2.10 | U | 0.66 | 2.10 | 4.20 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 10.6 | U | 3.00 | 10.6 | 21.2 | ug/Kg |
| 108-88-3 | Toluene | 2.10 | U | 0.66 | 2.10 | 4.20 | ug/Kg |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/06/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 38M-E | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-19 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 87.8 |
| Sample Wt/Vol: | 6.73 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023081.D | 1 | 08/13/25 19:38 | VY081325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 2.10 | U | 0.55 | 2.10 | 4.20 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 2.10 | U | 0.52 | 2.10 | 4.20 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 2.10 | U | 0.78 | 2.10 | 4.20 | ug/Kg |
| 591-78-6 | 2-Hexanone | 10.6 | U | 3.10 | 10.6 | 21.2 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 2.10 | U | 0.74 | 2.10 | 4.20 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 2.10 | U | 0.74 | 2.10 | 4.20 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 2.10 | U | 0.89 | 2.10 | 4.20 | ug/Kg |
| 108-90-7 | Chlorobenzene | 2.10 | U | 0.77 | 2.10 | 4.20 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 2.10 | U | 0.57 | 2.10 | 4.20 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 4.20 | U | 1.00 | 4.20 | 8.50 | ug/Kg |
| 95-47-6 | o-Xylene | 2.10 | U | 0.69 | 2.10 | 4.20 | ug/Kg |
| 100-42-5 | Styrene | 2.10 | U | 0.60 | 2.10 | 4.20 | ug/Kg |
| 75-25-2 | Bromoform | 2.10 | U | 0.73 | 2.10 | 4.20 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 2.10 | U | 0.66 | 2.10 | 4.20 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 2.10 | U | 1.00 | 2.10 | 4.20 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 2.10 | U | 1.40 | 2.10 | 4.20 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 2.10 | U | 1.30 | 2.10 | 4.20 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 2.10 | U | 1.20 | 2.10 | 4.20 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 3.40 | U | 1.60 | 3.40 | 4.20 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 3.40 | U | 2.50 | 3.40 | 4.20 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 3.40 | U | 2.70 | 3.40 | 4.20 | ug/Kg |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 62.0 | | 71 - 136 | | 124% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 53.3 | | 78 - 119 | | 107% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 52.4 | | 85 - 116 | | 105% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 45.6 | | 79 - 119 | | 91% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 641000 | 7.707 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 1280000 | 8.61 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 1110000 | 11.414 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 424000 | 13.34 | | | | |

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/06/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 38M-E | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-19 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 87.8 |
| Sample Wt/Vol: | 6.73 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023081.D | 1 | 08/13/25 19:38 | VY081325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023081.D
Acq On : 13 Aug 2025 19:38
Operator : SY/MD
Sample : Q2819-19
Misc : 6.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
38M-E

Quant Time: Aug 14 01:29:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 641351 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.610 | 114 | 1276856 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 1106347 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 424298 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.055 | 65 | 379278 | 62.049 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 124.100% | | | |
| 35) Dibromofluoromethane | 7.628 | 113 | 407347 | 53.316 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 106.640% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 1563625 | 52.387 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 104.780% | | | |
| 62) 4-Bromofluorobenzene | 12.402 | 95 | 438170 | 45.648 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 91.300% | | | |

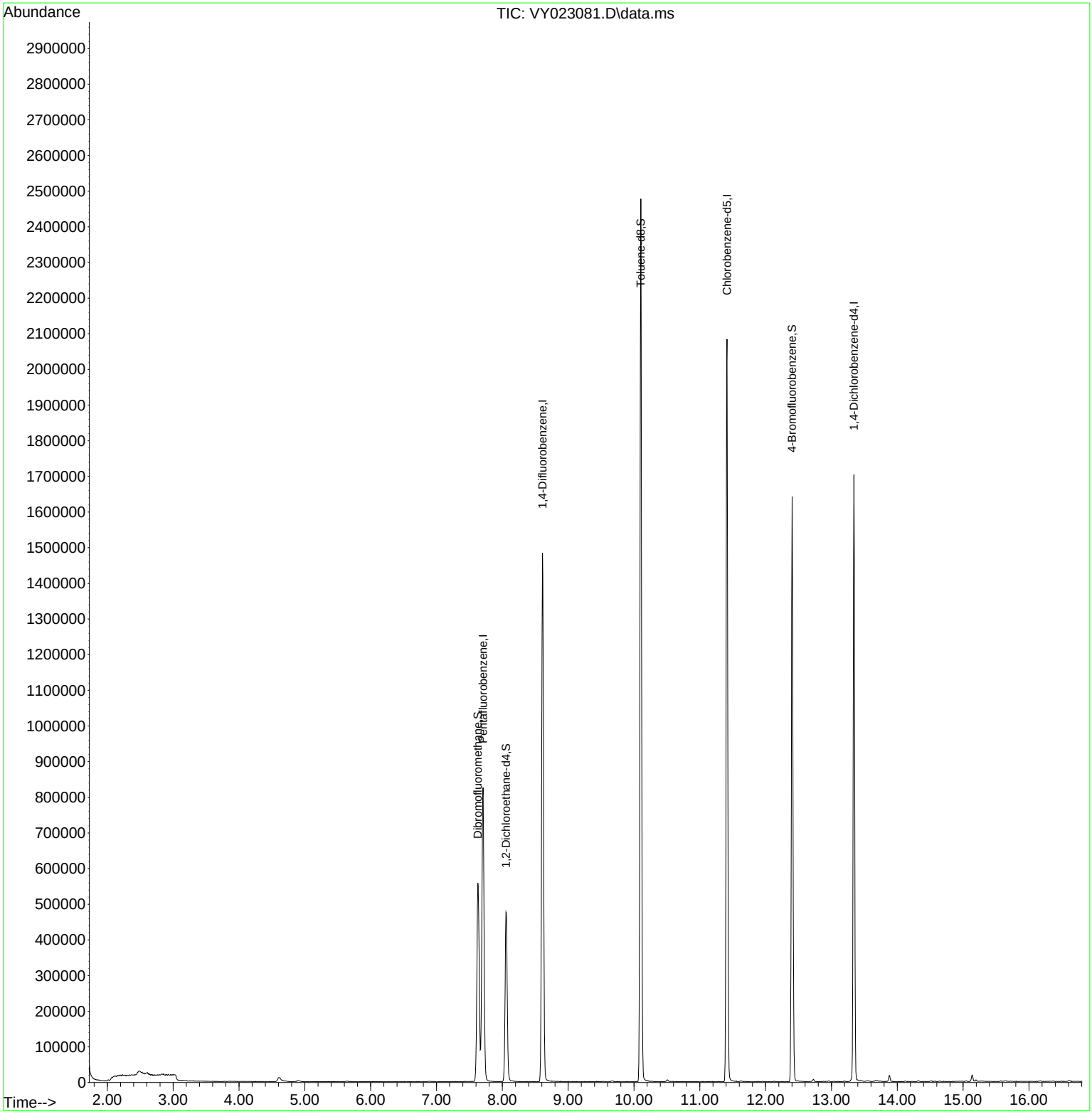
Target Compounds Qvalue

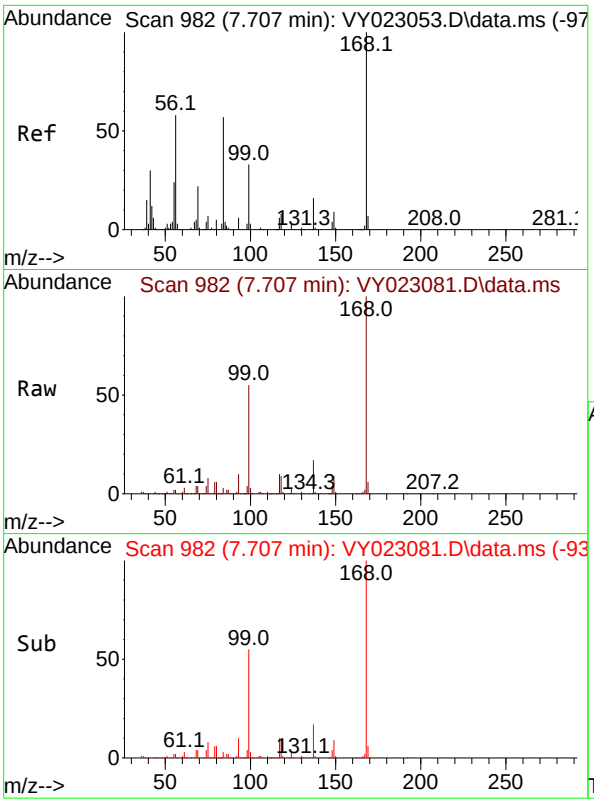
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023081.D
Acq On : 13 Aug 2025 19:38
Operator : SY/MD
Sample : Q2819-19
Misc : 6.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
38M-E

Quant Time: Aug 14 01:29:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



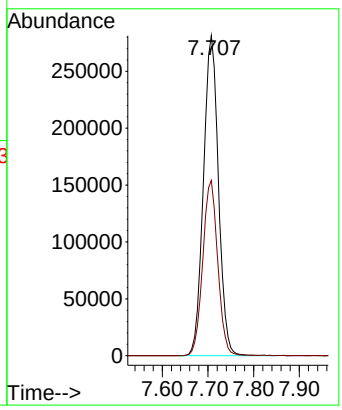


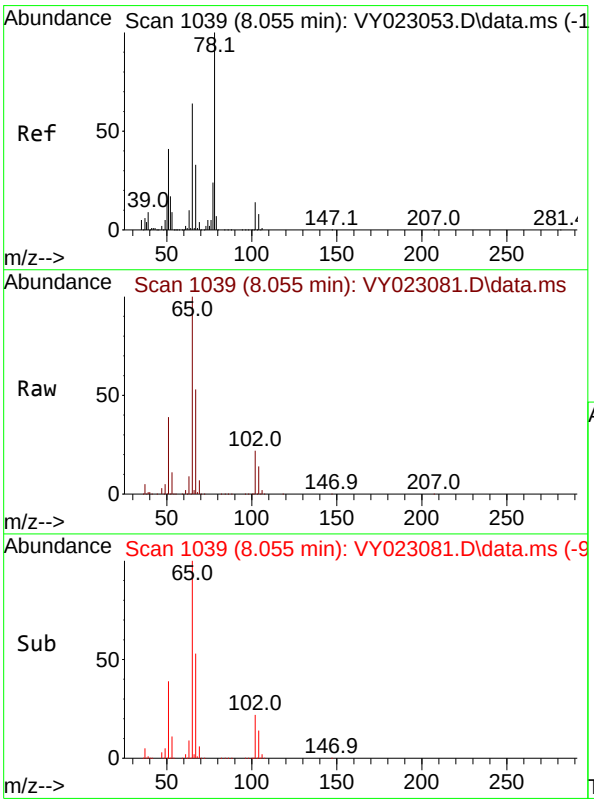

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023081.D
Acq: 13 Aug 2025 19:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
38M-E

Tgt Ion:168 Resp: 641351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 54.7 | 42.8 | 64.2 |

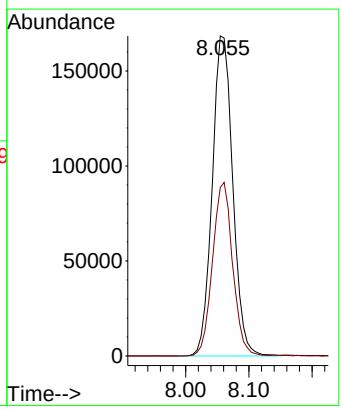


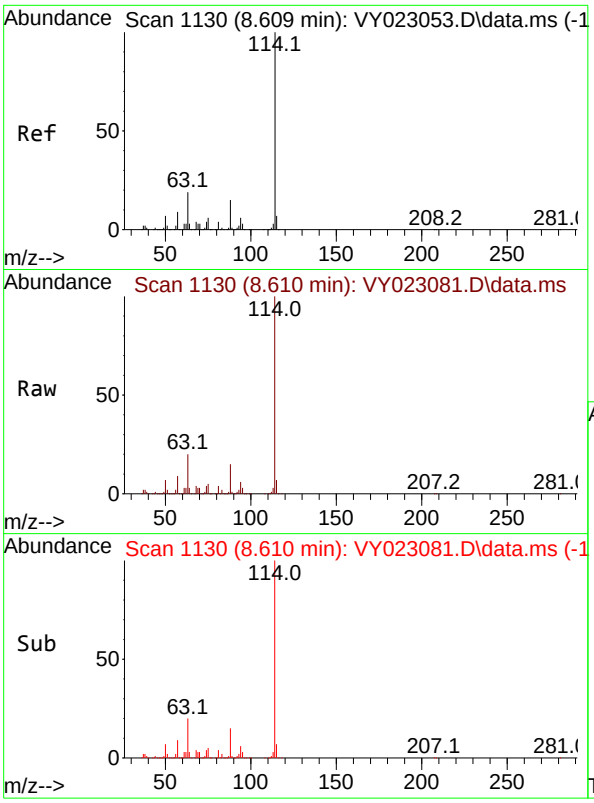




#33
1,2-Dichloroethane-d4
Concen: 62.049 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. 0.000 min
Lab File: VY023081.D
Acq: 13 Aug 2025 19:38

Tgt Ion: 65 Resp: 379278

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.2 | 0.0 | 106.8 |



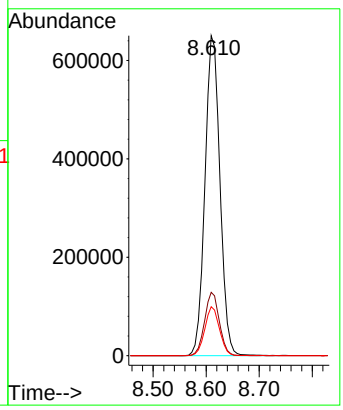


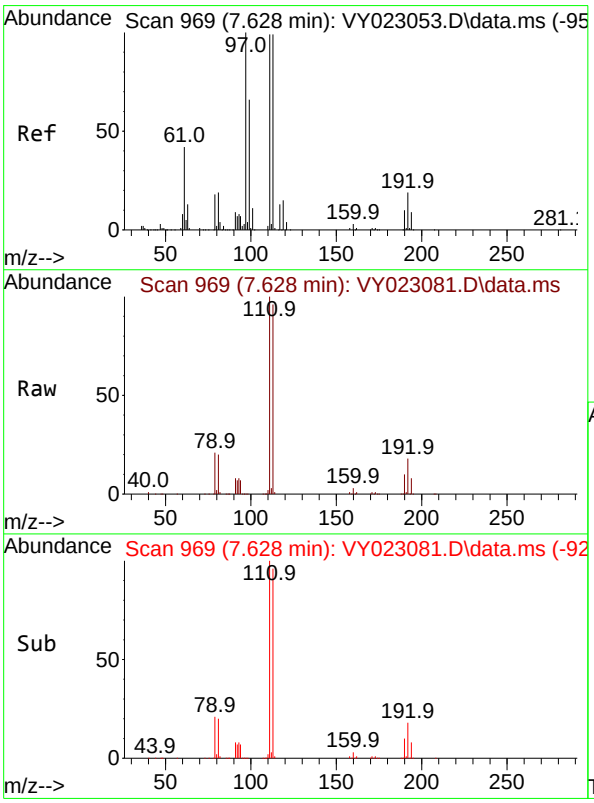

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023081.D
Acq: 13 Aug 2025 19:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
38M-E

Tgt Ion:114 Resp: 1276856

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.8 | 0.0 | 38.4 |
| 88 | 15.3 | 0.0 | 30.0 |

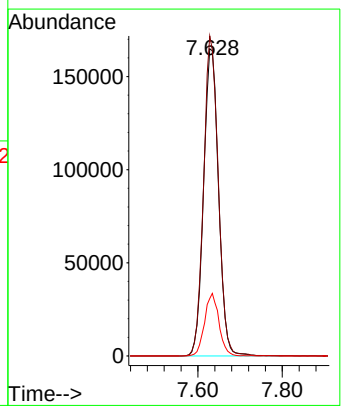


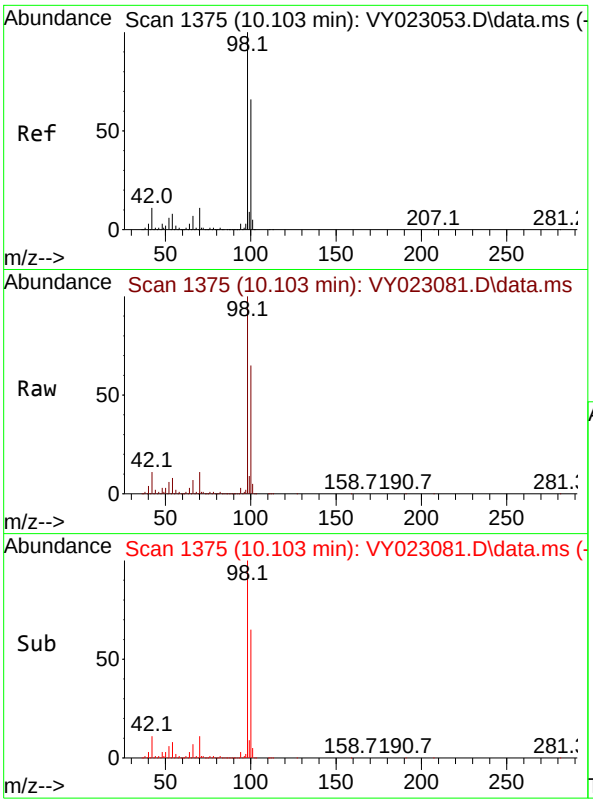




#35
Dibromofluoromethane
Concen: 53.316 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.000 min
Lab File: VY023081.D
Acq: 13 Aug 2025 19:38

Tgt Ion:113 Resp: 407347

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.4 | 81.1 | 121.7 |
| 192 | 19.6 | 16.2 | 24.4 |



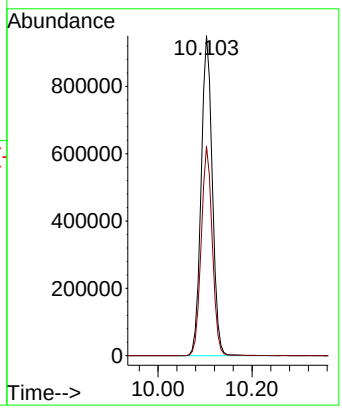


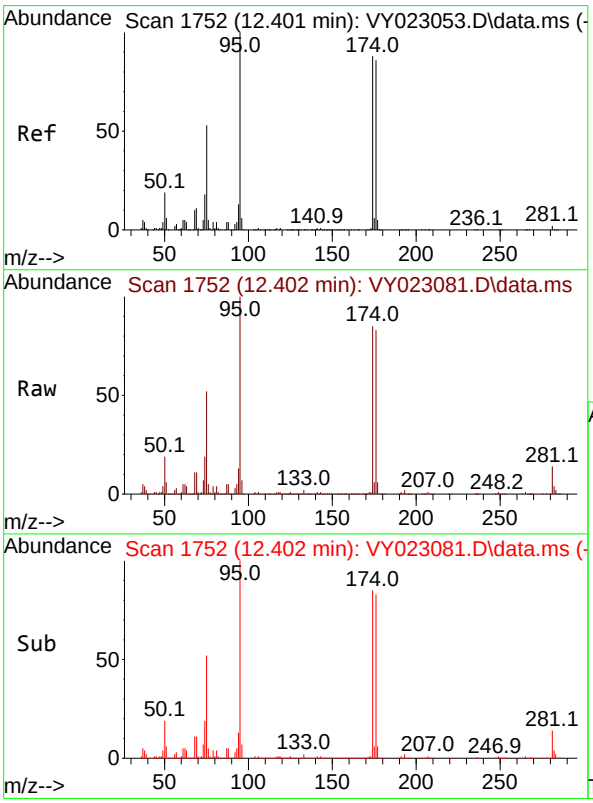

#50
Toluene-d8
Concen: 52.387 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023081.D
Acq: 13 Aug 2025 19:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
38M-E

Tgt Ion: 98 Resp: 1563625

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.9 | 52.3 | 78.5 |

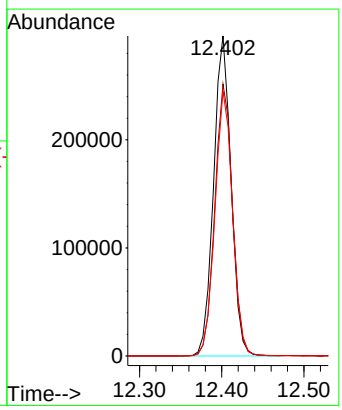


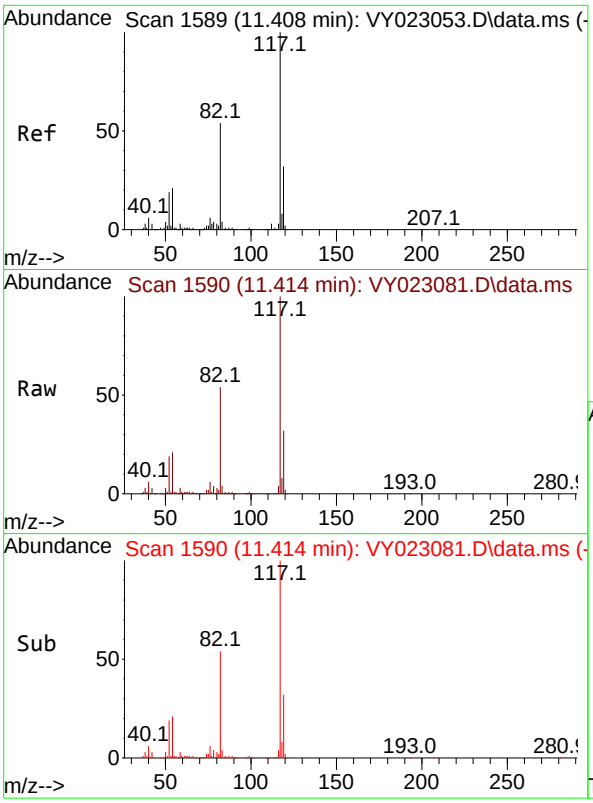




#62
4-Bromofluorobenzene
Concen: 45.648 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023081.D
Acq: 13 Aug 2025 19:38

Tgt Ion: 95 Resp: 438170

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 86.1 | 0.0 | 171.6 |
| 176 | 83.5 | 0.0 | 167.6 |



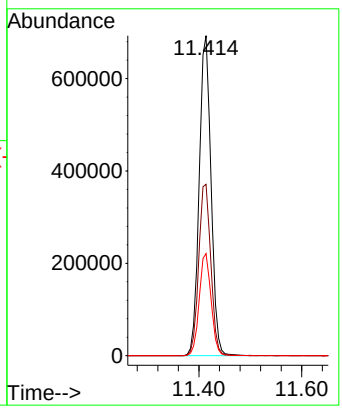


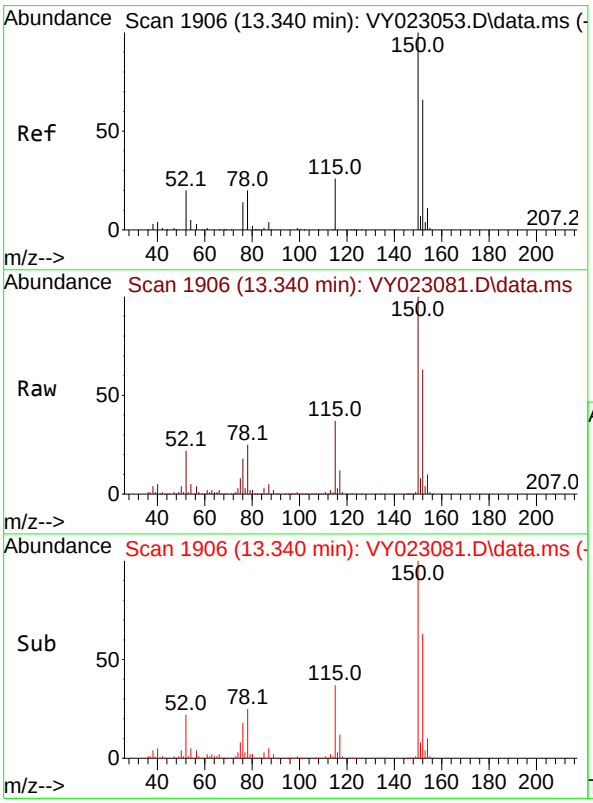

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023081.D
Acq: 13 Aug 2025 19:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
38M-E

Tgt Ion:117 Resp: 1106347

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 53.6 | 43.4 | 65.0 |
| 119 | 31.9 | 25.6 | 38.4 |

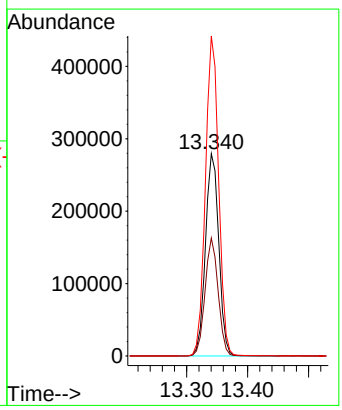



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023081.D
Acq: 13 Aug 2025 19:38

Tgt Ion:152 Resp: 424298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.3 | 28.2 | 84.6 |
| 150 | 156.7 | 0.0 | 348.0 |



Sample Results: **VY023081.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023081.D
Acq On : 13 Aug 2025 19:38
Operator : SY/MD
Sample : Q2819-19
Misc : 6.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
38M-E

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Title : SW846 8260

Signal : TIC: VY023081.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.604 | 464 | 473 | 482 | rBV4 | 11617 | 42046 | 1.03% | 0.210% |
| 2 | 7.628 | 958 | 969 | 975 | rBV | 557103 | 1344468 | 32.81% | 6.700% |
| 3 | 7.707 | 975 | 982 | 998 | rVB | 823772 | 1899804 | 46.36% | 9.467% |
| 4 | 8.055 | 1030 | 1039 | 1058 | rBV | 475187 | 1081050 | 26.38% | 5.387% |
| 5 | 8.610 | 1121 | 1130 | 1151 | rBV | 1482736 | 2927186 | 71.43% | 14.587% |
| 6 | 10.103 | 1367 | 1375 | 1392 | rBV | 2476240 | 4098097 | 100.00% | 20.422% |
| 7 | 11.414 | 1582 | 1590 | 1603 | rBV | 2082502 | 3385855 | 82.62% | 16.873% |
| 8 | 12.402 | 1744 | 1752 | 1763 | rBV2 | 1640709 | 2697809 | 65.83% | 13.444% |
| 9 | 13.340 | 1890 | 1906 | 1914 | rBV | 1702834 | 2590838 | 63.22% | 12.911% |

Sum of corrected areas: 20067153

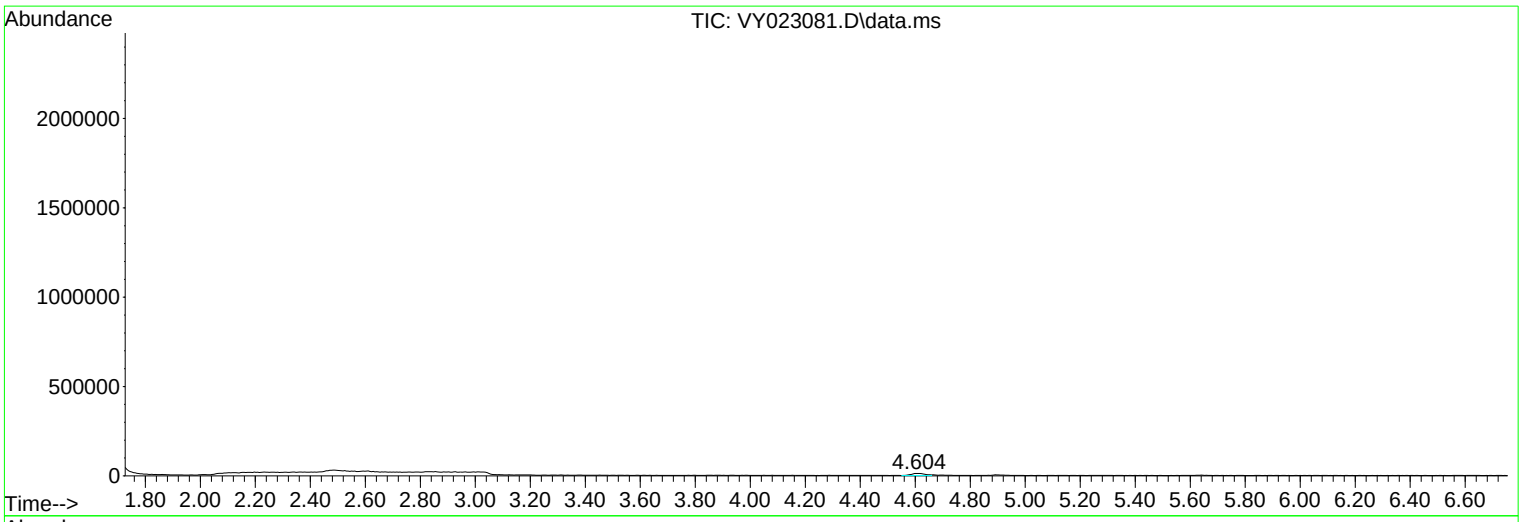
Sample Results: **VY023081.D**

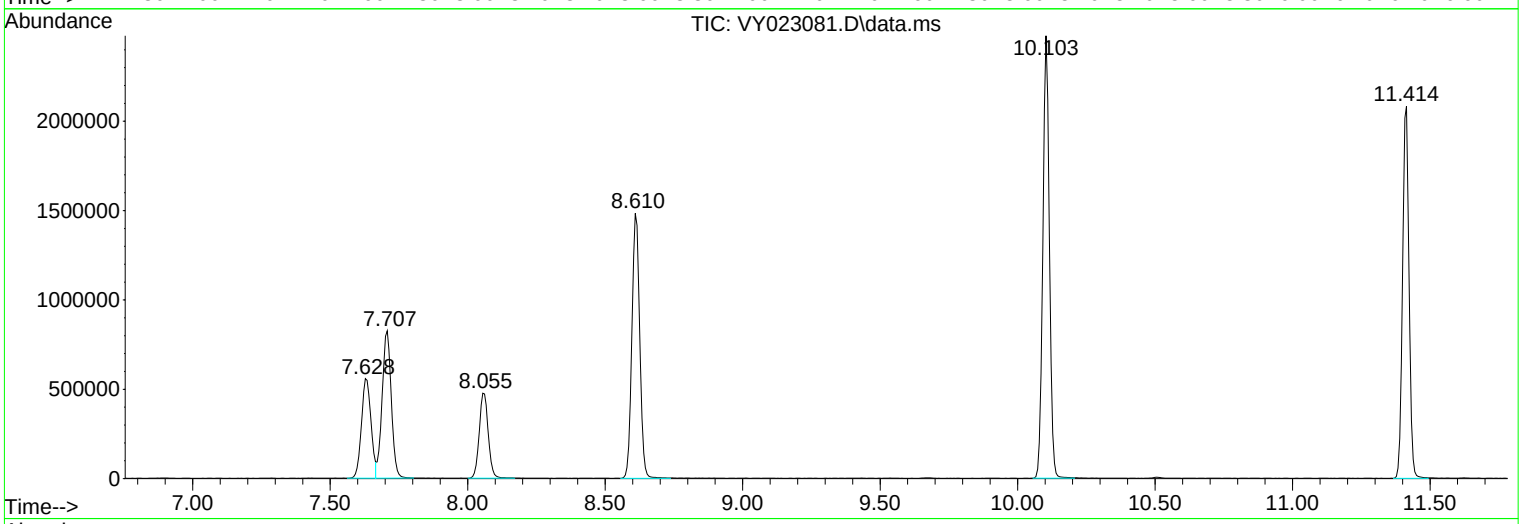
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023081.D
Acq On : 13 Aug 2025 19:38
Operator : SY/MD
Sample : Q2819-19
Misc : 6.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

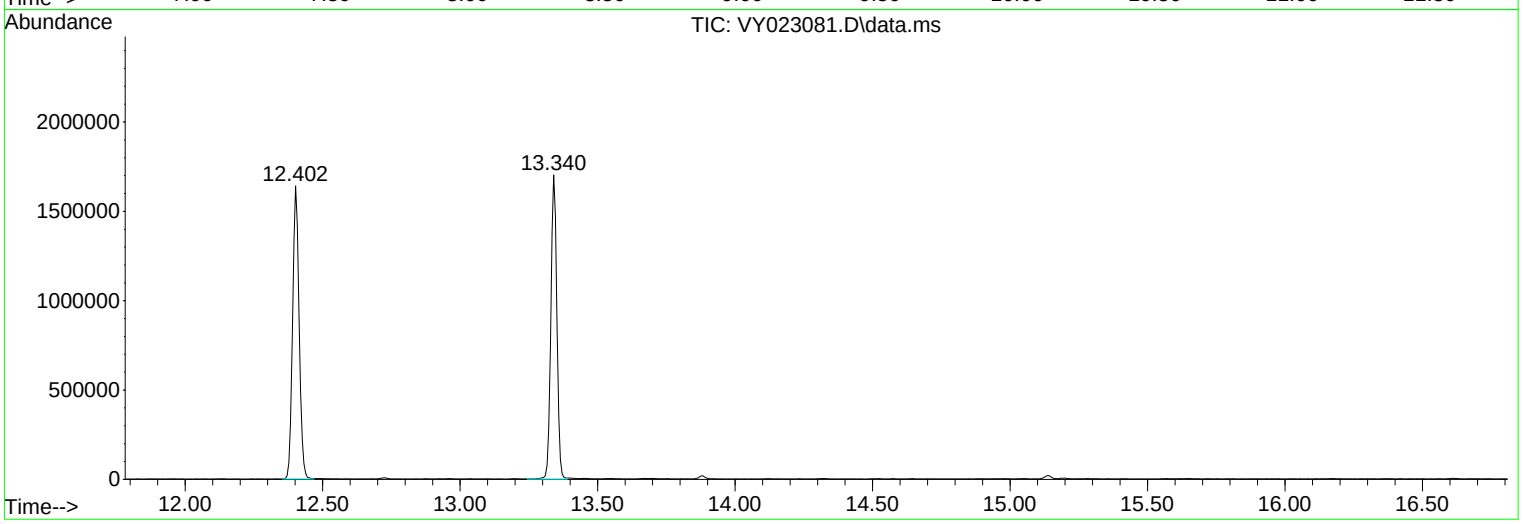
**Instrument :**
MSVOA_Y
**ClientSampleId :**
38M-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023081.D
Acq On : 13 Aug 2025 19:38
Operator : SY/MD
Sample : Q2819-19
Misc : 6.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
38M-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
**********

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023081.D
Acq On : 13 Aug 2025 19:38
Operator : SY/MD
Sample : Q2819-19
Misc : 6.73g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
38M-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/06/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 82H-E | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-20 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 77.2 |
| Sample Wt/Vol: | 7.36 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023144.D | 1 | 08/19/25 12:31 | VY081925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 3.50 | U | 1.00 | 3.50 | 4.40 | ug/Kg |
| 74-87-3 | Chloromethane | 2.20 | U | 1.00 | 2.20 | 4.40 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 2.20 | U | 0.70 | 2.20 | 4.40 | ug/Kg |
| 74-83-9 | Bromomethane | 3.50 | U | 0.94 | 3.50 | 4.40 | ug/Kg |
| 75-00-3 | Chloroethane | 2.20 | U | 1.10 | 2.20 | 4.40 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 3.50 | U | 1.10 | 3.50 | 4.40 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 2.20 | U | 0.93 | 2.20 | 4.40 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 2.20 | U | 0.88 | 2.20 | 4.40 | ug/Kg |
| 67-64-1 | Acetone | 17.6 | U | 4.20 | 17.6 | 22.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 3.50 | U | 0.93 | 3.50 | 4.40 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 2.20 | U | 0.64 | 2.20 | 4.40 | ug/Kg |
| 79-20-9 | Methyl Acetate | 3.50 | U | 1.40 | 3.50 | 4.40 | ug/Kg |
| 75-09-2 | Methylene Chloride | 7.00 | U | 3.10 | 7.00 | 8.80 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 2.20 | U | 0.76 | 2.20 | 4.40 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 2.20 | U | 0.70 | 2.20 | 4.40 | ug/Kg |
| 110-82-7 | Cyclohexane | 2.20 | U | 0.70 | 2.20 | 4.40 | ug/Kg |
| 78-93-3 | 2-Butanone | 17.6 | U | 5.80 | 17.6 | 22.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 2.20 | U | 0.85 | 2.20 | 4.40 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 2.20 | U | 0.66 | 2.20 | 4.40 | ug/Kg |
| 74-97-5 | Bromochloromethane | 3.50 | U | 1.00 | 3.50 | 4.40 | ug/Kg |
| 67-66-3 | Chloroform | 3.50 | U | 0.74 | 3.50 | 4.40 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 2.20 | U | 0.82 | 2.20 | 4.40 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 2.20 | U | 0.80 | 2.20 | 4.40 | ug/Kg |
| 71-43-2 | Benzene | 2.20 | U | 0.70 | 2.20 | 4.40 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 2.20 | U | 0.70 | 2.20 | 4.40 | ug/Kg |
| 79-01-6 | Trichloroethene | 2.20 | U | 0.71 | 2.20 | 4.40 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 2.20 | U | 0.80 | 2.20 | 4.40 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 2.20 | U | 0.69 | 2.20 | 4.40 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 11.0 | U | 3.20 | 11.0 | 22.0 | ug/Kg |
| 108-88-3 | Toluene | 2.20 | U | 0.69 | 2.20 | 4.40 | ug/Kg |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/06/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 82H-E | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-20 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 77.2 |
| Sample Wt/Vol: | 7.36 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023144.D | 1 | 08/19/25 12:31 | VY081925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 2.20 | U | 0.57 | 2.20 | 4.40 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 2.20 | U | 0.55 | 2.20 | 4.40 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 2.20 | U | 0.81 | 2.20 | 4.40 | ug/Kg |
| 591-78-6 | 2-Hexanone | 11.0 | U | 3.20 | 11.0 | 22.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 2.20 | U | 0.77 | 2.20 | 4.40 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 2.20 | U | 0.77 | 2.20 | 4.40 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 2.20 | U | 0.92 | 2.20 | 4.40 | ug/Kg |
| 108-90-7 | Chlorobenzene | 2.20 | U | 0.80 | 2.20 | 4.40 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 2.20 | U | 0.59 | 2.20 | 4.40 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 4.40 | U | 1.10 | 4.40 | 8.80 | ug/Kg |
| 95-47-6 | o-Xylene | 2.20 | U | 0.72 | 2.20 | 4.40 | ug/Kg |
| 100-42-5 | Styrene | 2.20 | U | 0.62 | 2.20 | 4.40 | ug/Kg |
| 75-25-2 | Bromoform | 2.20 | U | 0.76 | 2.20 | 4.40 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 2.20 | U | 0.69 | 2.20 | 4.40 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 2.20 | U | 1.10 | 2.20 | 4.40 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 2.20 | U | 1.50 | 2.20 | 4.40 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 2.20 | U | 1.40 | 2.20 | 4.40 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 2.20 | U | 1.30 | 2.20 | 4.40 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 3.50 | U | 1.60 | 3.50 | 4.40 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 3.50 | U | 2.60 | 3.50 | 4.40 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 3.50 | U | 2.80 | 3.50 | 4.40 | ug/Kg |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 54.7 | | 71 - 136 | | 109% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 52.7 | | 78 - 119 | | 105% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.5 | | 85 - 116 | | 101% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 43.3 | | 79 - 119 | | 87% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 628000 | 7.707 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 1150000 | 8.616 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 978000 | 11.414 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 336000 | 13.347 | | | | |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | 08/06/25 |
| Project: | USACE018-44 DOD | Date Received: | 08/08/25 |
| Client Sample ID: | 82H-E | SDG No.: | Q2819 |
| Lab Sample ID: | Q2819-20 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 77.2 |
| Sample Wt/Vol: | 7.36 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023144.D | 1 | 08/19/25 12:31 | VY081925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023144.D
Acq On : 19 Aug 2025 12:31
Operator : SY/MD
Sample : Q2819-20
Misc : 7.36g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
82H-E

Quant Time: Aug 20 01:28:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 627655 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 1149795 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 978415 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152 | 336379 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 327124 | 54.685 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 109.360% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 362558 | 52.697 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 105.400% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 1358340 | 50.538 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 101.080% | | | |
| 62) 4-Bromofluorobenzene | 12.402 | 95 | 374379 | 43.312 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 86.620% | | | |

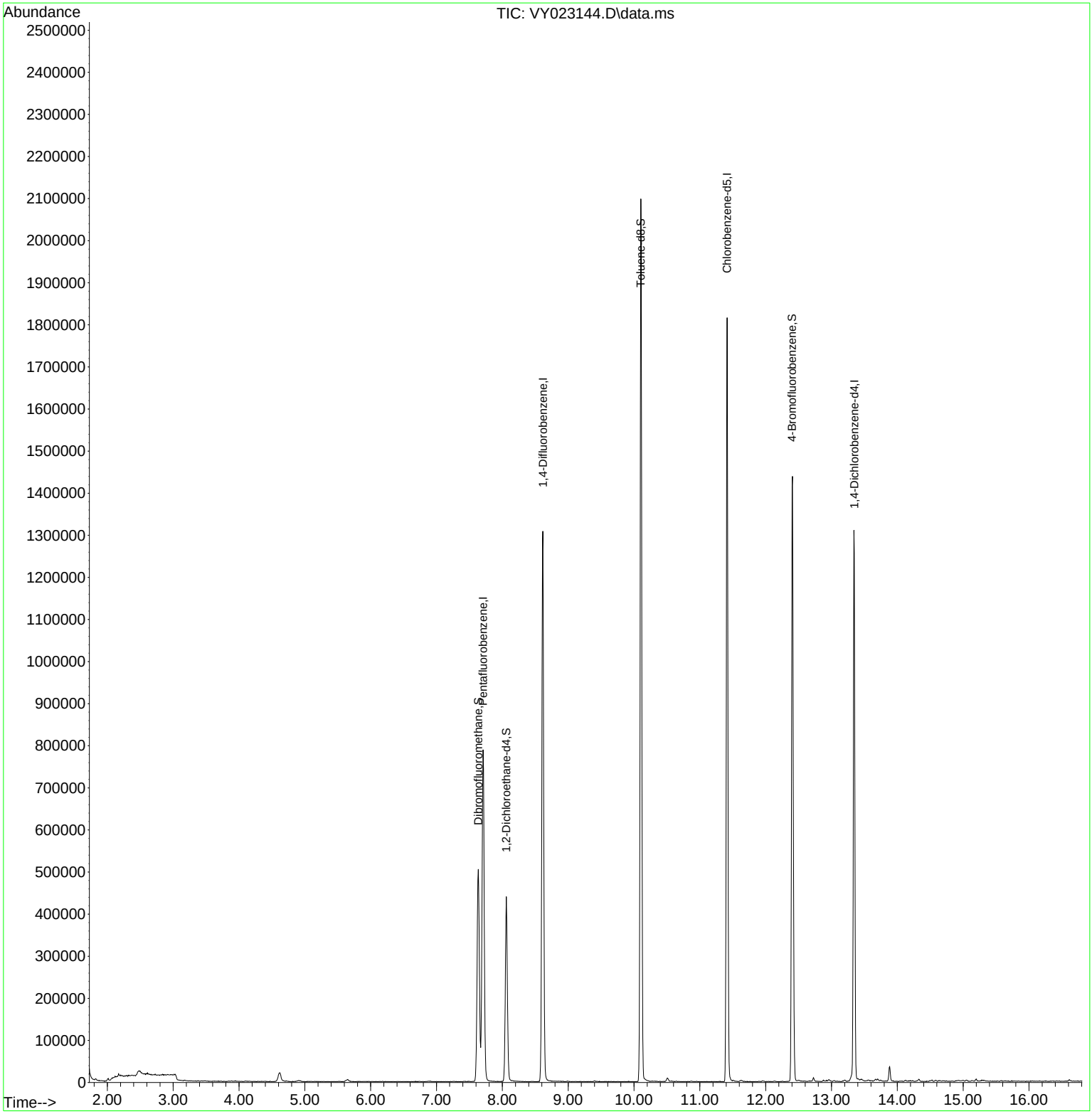
Target Compounds Qvalue

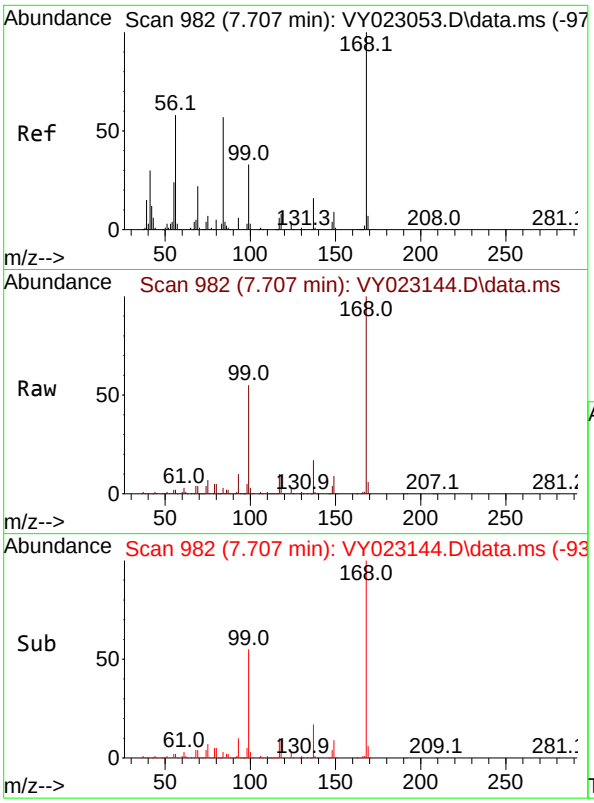
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023144.D
Acq On : 19 Aug 2025 12:31
Operator : SY/MD
Sample : Q2819-20
Misc : 7.36g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
82H-E

Quant Time: Aug 20 01:28:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



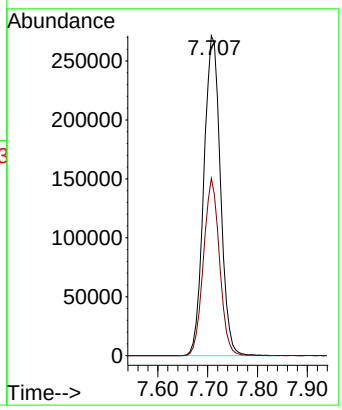


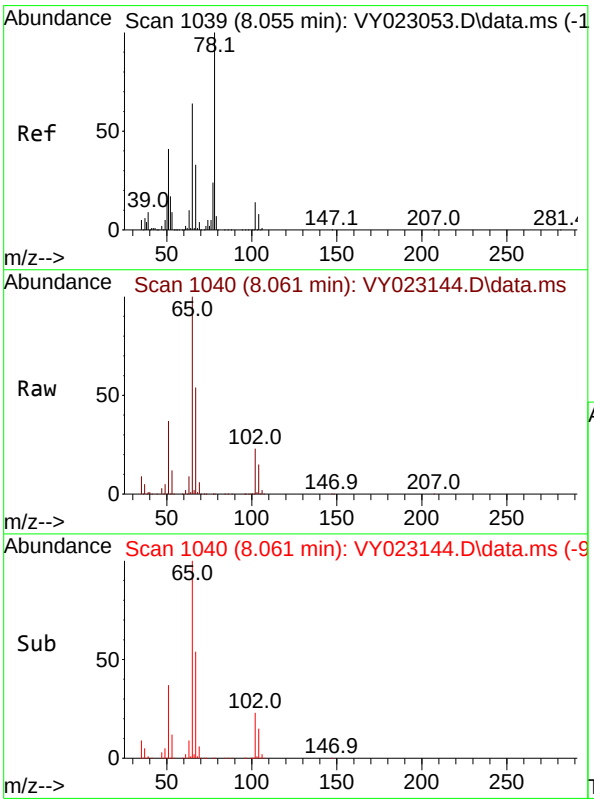

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023144.D
Acq: 19 Aug 2025 12:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
82H-E

Tgt Ion:168 Resp: 627655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 55.4 | 42.8 | 64.2 |

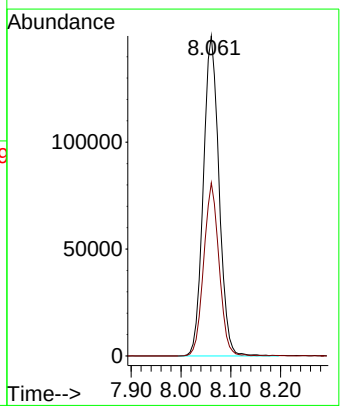


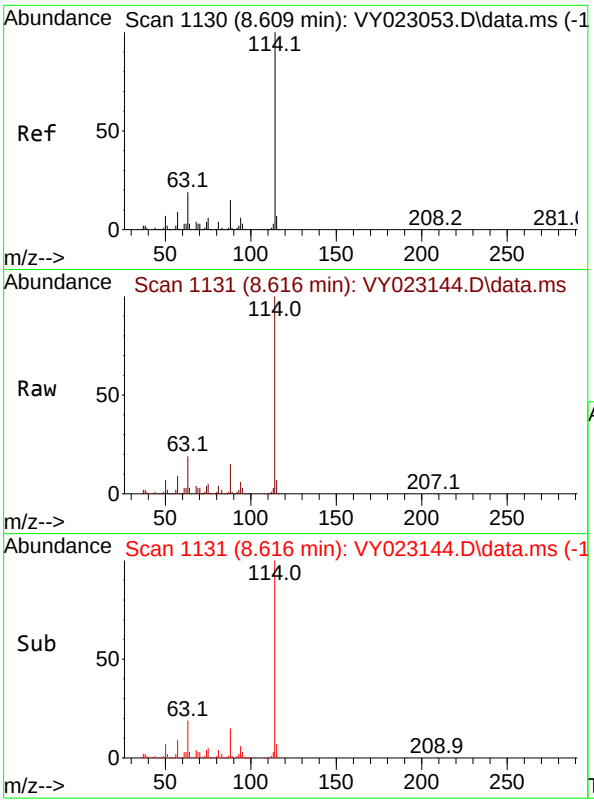




#33
1,2-Dichloroethane-d4
Concen: 54.685 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY023144.D
Acq: 19 Aug 2025 12:31

Tgt Ion: 65 Resp: 327124

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.9 | 0.0 | 106.8 |



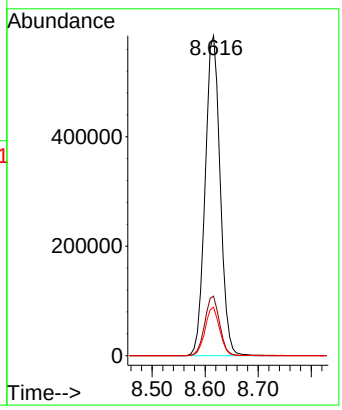


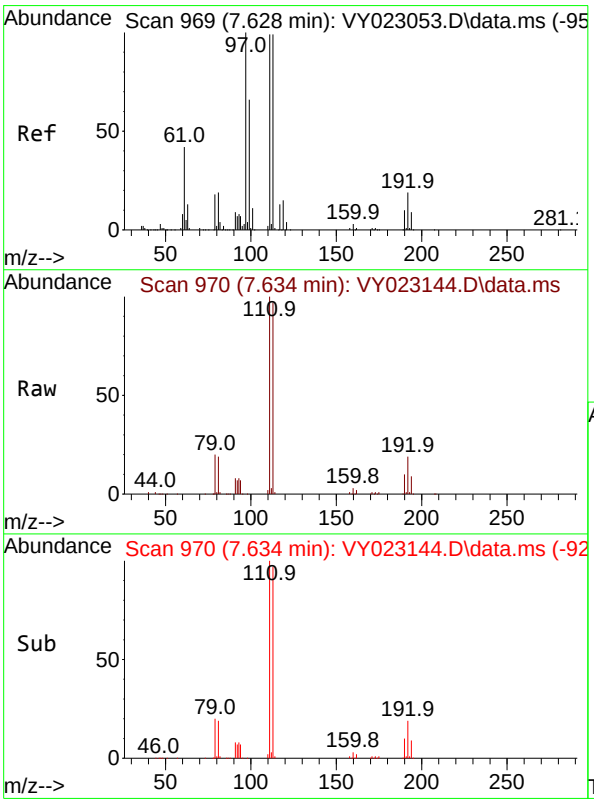

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023144.D
Acq: 19 Aug 2025 12:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
82H-E

Tgt Ion:114 Resp: 1149795

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.6 | 0.0 | 38.4 |
| 88 | 15.2 | 0.0 | 30.0 |

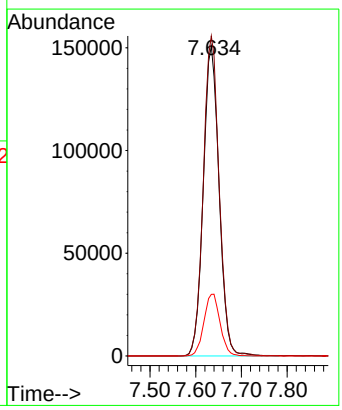


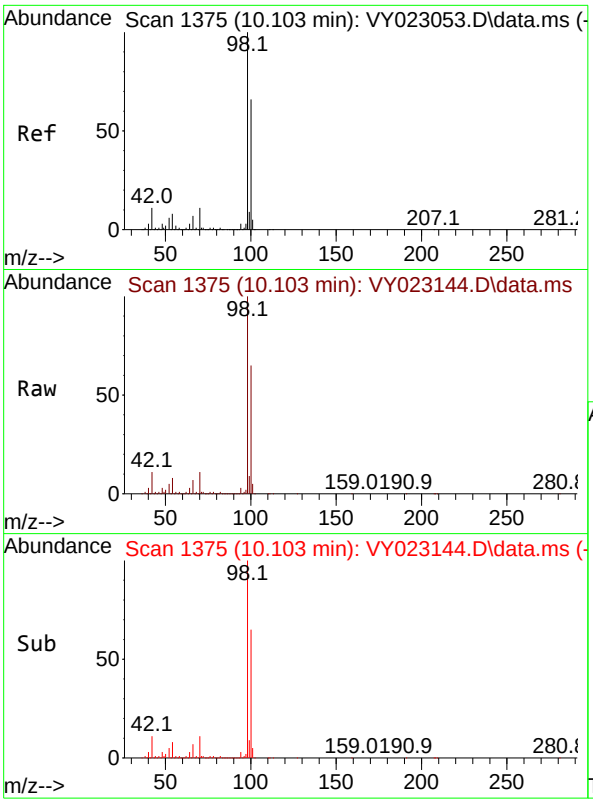




#35
Dibromofluoromethane
Concen: 52.697 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.006 min
Lab File: VY023144.D
Acq: 19 Aug 2025 12:31

Tgt Ion:113 Resp: 362558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.5 | 81.1 | 121.7 |
| 192 | 20.4 | 16.2 | 24.4 |



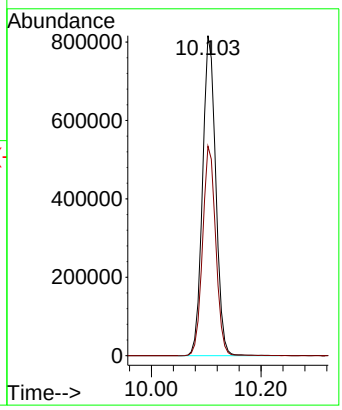


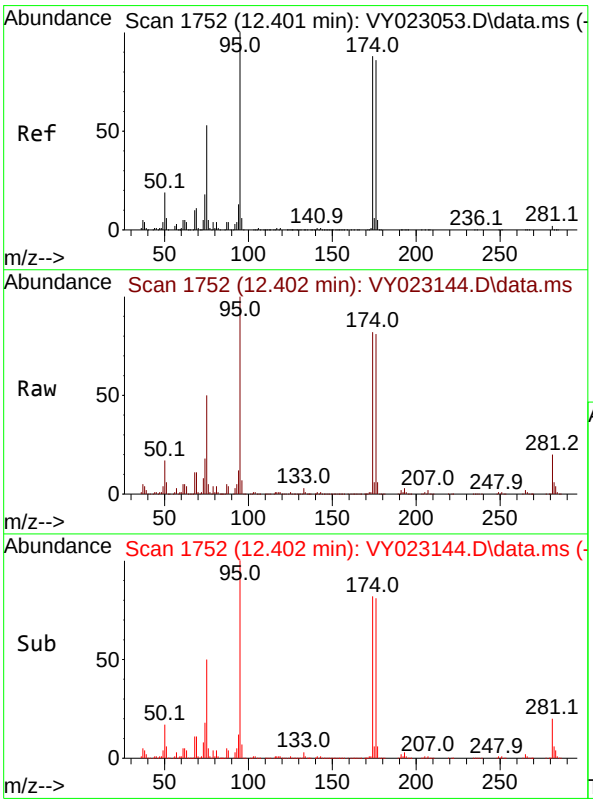

#50
Toluene-d8
Concen: 50.538 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023144.D
Acq: 19 Aug 2025 12:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
82H-E

Tgt Ion: 98 Resp: 1358340

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.3 | 52.3 | 78.5 |

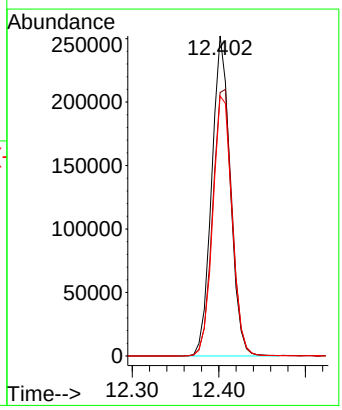


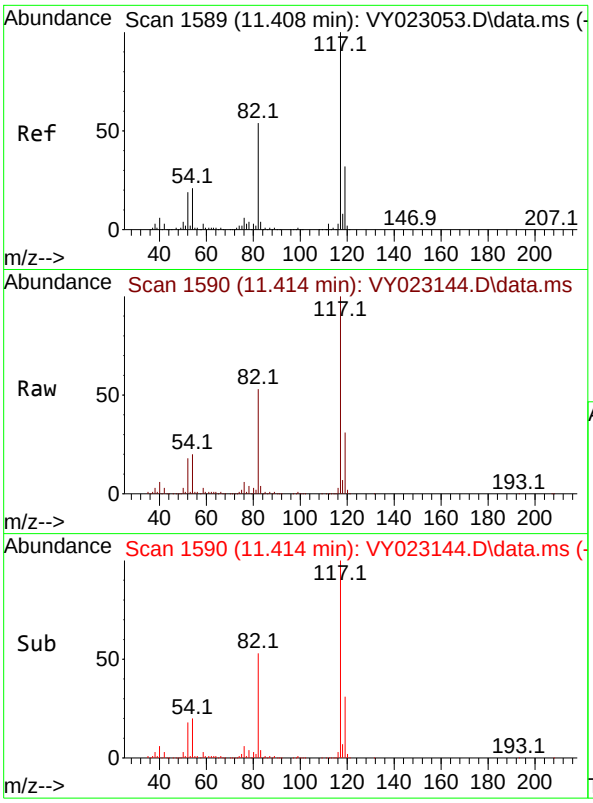




#62
4-Bromofluorobenzene
Concen: 43.312 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023144.D
Acq: 19 Aug 2025 12:31

Tgt Ion: 95 Resp: 374379

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 87.8 | 0.0 | 171.6 |
| 176 | 84.5 | 0.0 | 167.6 |



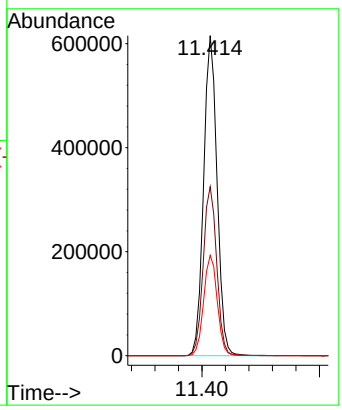


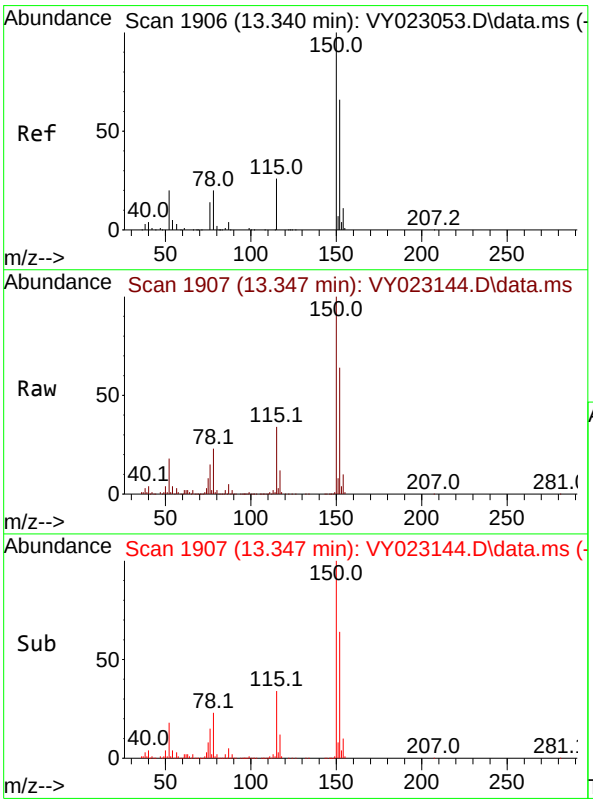

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023144.D
Acq: 19 Aug 2025 12:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
82H-E

Tgt Ion:117 Resp: 978415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 52.8 | 43.4 | 65.0 |
| 119 | 31.4 | 25.6 | 38.4 |

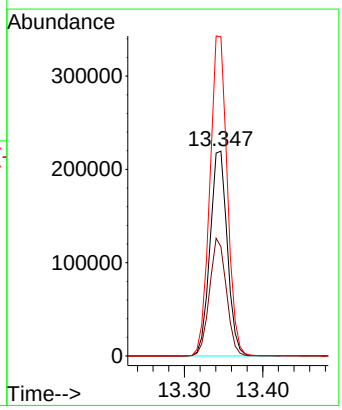



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023144.D
Acq: 19 Aug 2025 12:31

Tgt Ion:152 Resp: 336379

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 56.2 | 28.2 | 84.6 |
| 150 | 157.1 | 0.0 | 348.0 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023144.D
Acq On : 19 Aug 2025 12:31
Operator : SY/MD
Sample : Q2819-20
Misc : 7.36g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
82H-E

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Title : SW846 8260

Signal : TIC: VY023144.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.616 | 463 | 475 | 484 | rBV2 | 20702 | 66871 | 1.90% | 0.378% |
| 2 | 7.634 | 959 | 970 | 976 | rBV2 | 504123 | 1212617 | 34.38% | 6.851% |
| 3 | 7.707 | 976 | 982 | 997 | rVB | 787033 | 1795653 | 50.91% | 10.146% |
| 4 | 8.061 | 1031 | 1040 | 1052 | rBV | 438704 | 928359 | 26.32% | 5.245% |
| 5 | 8.616 | 1120 | 1131 | 1147 | rBV | 1307609 | 2570637 | 72.88% | 14.524% |
| 6 | 10.103 | 1366 | 1375 | 1394 | rBV | 2097442 | 3527409 | 100.00% | 19.930% |
| 7 | 11.414 | 1581 | 1590 | 1603 | rBV | 1815272 | 2915864 | 82.66% | 16.475% |
| 8 | 12.408 | 1743 | 1753 | 1764 | rBV2 | 1437465 | 2595872 | 73.59% | 14.667% |
| 9 | 13.340 | 1894 | 1906 | 1915 | rBV | 1308287 | 2028941 | 57.52% | 11.464% |
| 10 | 13.883 | 1989 | 1995 | 2002 | rBV2 | 34467 | 56493 | 1.60% | 0.319% |

Sum of corrected areas: 17698716

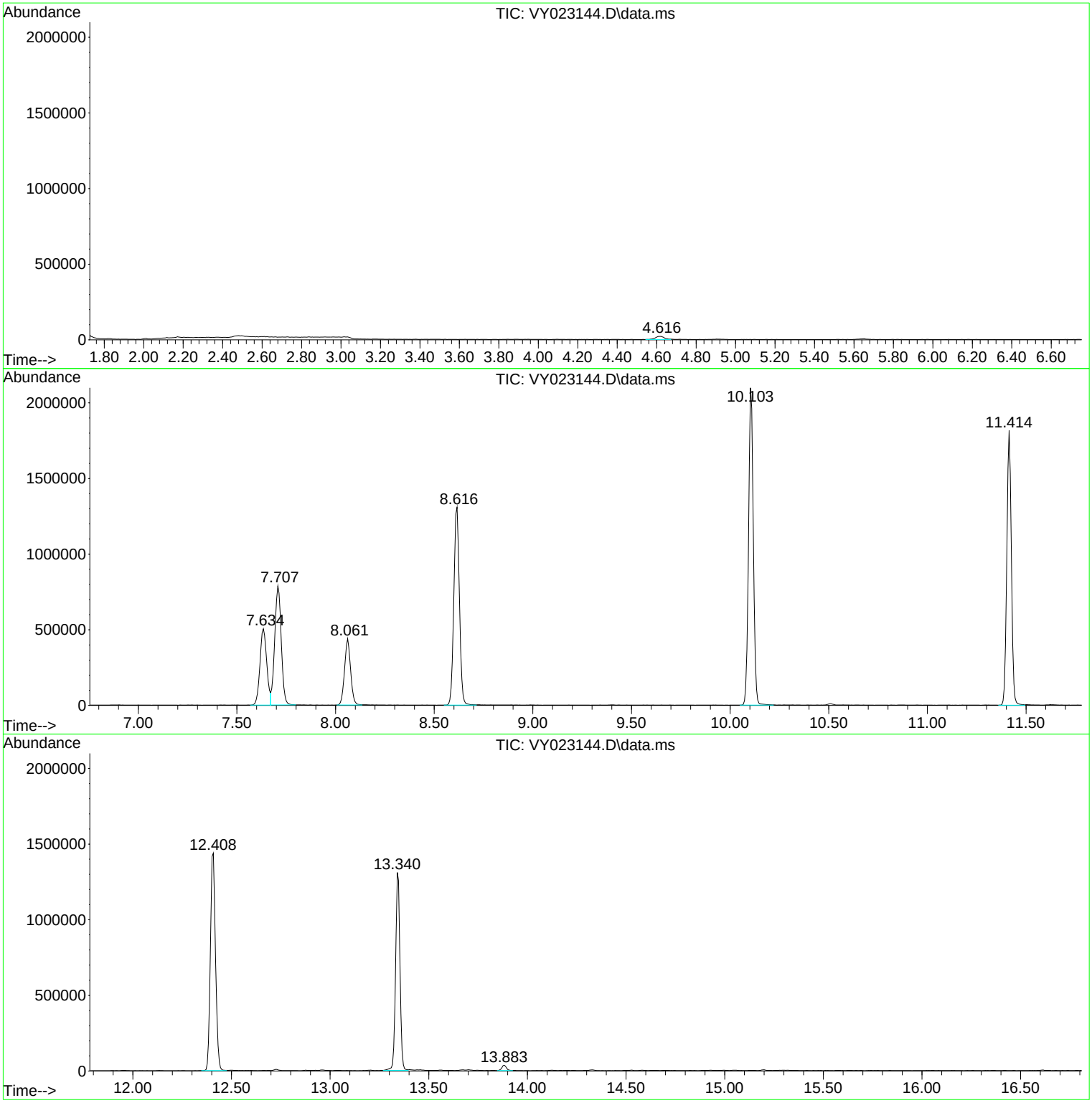
Sample Results: **VY023144.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023144.D
Acq On : 19 Aug 2025 12:31
Operator : SY/MD
Sample : Q2819-20
Misc : 7.36g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
82H-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023144.D
Acq On : 19 Aug 2025 12:31
Operator : SY/MD
Sample : Q2819-20
Misc : 7.36g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
82H-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
**********

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023144.D
Acq On : 19 Aug 2025 12:31
Operator : SY/MD
Sample : Q2819-20
Misc : 7.36g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
82H-E

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |

# CALIBRATION SUMMARY

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG No.: Q2819

Instrument ID: MSVOA_W Calibration Date(s): 08/11/2025 08/11/2025

Heated Purge: (Y/N) Y Calibration Time(s): 08:25 11:08

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VW032052.D RRF010 = VW032053.D RRF020 = VW032054.D
RRF050 = VW032055.D RRF100 = VW032056.D RRF150 = VW032057.D

| COMPOUND | RRF005 | RRF010 | RRF020 | RRF050 | RRF100 | RRF150 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.399 | 0.383 | 0.385 | 0.336 | 0.317 | 0.325 | 0.358 | 9.9 |
| Chloromethane | 0.549 | 0.482 | 0.501 | 0.438 | 0.452 | 0.469 | 0.482 | 8.2 |
| Vinyl Chloride | 0.622 | 0.621 | 0.646 | 0.530 | 0.540 | 0.537 | 0.583 | 9 |
| Bromomethane | 0.482 | 0.452 | 0.462 | 0.411 | 0.413 | 0.403 | 0.437 | 7.5 |
| Chloroethane | 0.409 | 0.389 | 0.408 | 0.367 | 0.373 | 0.368 | 0.386 | 5 |
| Trichlorofluoromethane | 0.545 | 0.436 | 0.439 | 0.464 | 0.413 | 0.504 | 0.467 | 10.6 |
| 1,1,2-Trichlorotrifluoroethane | 0.616 | 0.566 | 0.588 | 0.517 | 0.507 | 0.510 | 0.551 | 8.4 |
| 1,1-Dichloroethene | 0.650 | 0.620 | 0.649 | 0.575 | 0.568 | 0.577 | 0.606 | 6.3 |
| Acetone | 0.203 | 0.181 | 0.151 | 0.163 | 0.148 | 0.157 | 0.167 | 12.6 |
| Carbon Disulfide | 1.694 | 1.616 | 1.727 | 1.557 | 1.567 | 1.605 | 1.628 | 4.2 |
| Methyl tert-butyl Ether | 1.022 | 1.063 | 1.085 | 1.102 | 1.070 | 1.068 | 1.068 | 2.5 |
| Methyl Acetate | 0.485 | 0.604 | 0.491 | 0.555 | 0.494 | 0.551 | 0.530 | 9 |
| Methylene Chloride | 1.043 | 0.787 | 0.840 | 0.681 | 0.644 | 0.649 | 0.774 | 19.9 |
| trans-1,2-Dichloroethene | 0.650 | 0.641 | 0.673 | 0.627 | 0.636 | 0.634 | 0.644 | 2.6 |
| 1,1-Dichloroethane | 1.193 | 1.200 | 1.249 | 1.157 | 1.173 | 1.161 | 1.189 | 2.9 |
| Cyclohexane | 1.170 | 1.080 | 1.073 | 0.961 | 0.941 | 0.958 | 1.031 | 8.9 |
| 2-Butanone | 0.233 | 0.241 | 0.217 | 0.255 | 0.233 | 0.249 | 0.238 | 5.7 |
| Carbon Tetrachloride | 0.441 | 0.440 | 0.451 | 0.448 | 0.426 | 0.430 | 0.439 | 2.2 |
| cis-1,2-Dichloroethene | 0.711 | 0.736 | 0.772 | 0.749 | 0.775 | 0.769 | 0.752 | 3.3 |
| Bromochloromethane | 0.561 | 0.542 | 0.549 | 0.543 | 0.521 | 0.529 | 0.541 | 2.6 |
| Chloroform | 1.267 | 1.269 | 1.324 | 1.235 | 1.243 | 1.223 | 1.260 | 2.9 |
| 1,1,1-Trichloroethane | 0.960 | 0.949 | 0.965 | 0.872 | 0.869 | 0.878 | 0.915 | 5.1 |
| Methylcyclohexane | 0.525 | 0.540 | 0.568 | 0.578 | 0.540 | 0.578 | 0.555 | 4.1 |
| Benzene | 1.399 | 1.423 | 1.439 | 1.469 | 1.365 | 1.398 | 1.415 | 2.6 |
| 1,2-Dichloroethane | 0.461 | 0.467 | 0.458 | 0.466 | 0.429 | 0.436 | 0.453 | 3.6 |
| Trichloroethene | 0.353 | 0.334 | 0.342 | 0.339 | 0.319 | 0.335 | 0.337 | 3.3 |
| 1,2-Dichloropropane | 0.339 | 0.342 | 0.352 | 0.352 | 0.327 | 0.339 | 0.342 | 2.8 |
| Bromodichloromethane | 0.501 | 0.499 | 0.505 | 0.532 | 0.498 | 0.516 | 0.509 | 2.6 |
| 4-Methyl-2-Pentanone | 0.265 | 0.284 | 0.258 | 0.312 | 0.265 | 0.287 | 0.279 | 7.3 |
| Toluene | 0.837 | 0.882 | 0.910 | 0.932 | 0.887 | 0.902 | 0.892 | 3.6 |

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG No.: Q2819

Instrument ID: MSVOA_W Calibration Date(s): 08/11/2025 08/11/2025

Heated Purge: (Y/N) Y Calibration Time(s): 08:25 11:08

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VW032052.D RRF010 = VW032053.D RRF020 = VW032054.D
RRF050 = VW032055.D RRF100 = VW032056.D RRF150 = VW032057.D

| COMPOUND | RRF005 | RRF010 | RRF020 | RRF050 | RRF100 | RRF150 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 0.430 | 0.450 | 0.464 | 0.515 | 0.483 | 0.517 | 0.476 | 7.4 |
| cis-1,3-Dichloropropene | 0.499 | 0.516 | 0.530 | 0.581 | 0.552 | 0.566 | 0.541 | 5.8 |
| 1,1,2-Trichloroethane | 0.297 | 0.296 | 0.292 | 0.306 | 0.282 | 0.288 | 0.293 | 2.8 |
| 2-Hexanone | 0.178 | 0.194 | 0.177 | 0.220 | 0.187 | 0.202 | 0.193 | 8.5 |
| Dibromochloromethane | 0.322 | 0.327 | 0.330 | 0.349 | 0.332 | 0.349 | 0.335 | 3.5 |
| 1,2-Dibromoethane | 0.282 | 0.283 | 0.276 | 0.299 | 0.283 | 0.287 | 0.285 | 2.7 |
| Tetrachloroethene | 0.293 | 0.301 | 0.295 | 0.279 | 0.275 | 0.290 | 0.289 | 3.5 |
| Chlorobenzene | 1.112 | 1.116 | 1.098 | 1.068 | 1.043 | 1.093 | 1.088 | 2.6 |
| Ethyl Benzene | 1.714 | 1.806 | 1.921 | 1.870 | 1.830 | 1.921 | 1.843 | 4.3 |
| m/p-Xylenes | 0.645 | 0.707 | 0.754 | 0.731 | 0.702 | 0.730 | 0.711 | 5.3 |
| o-Xylene | 0.578 | 0.639 | 0.673 | 0.681 | 0.675 | 0.699 | 0.657 | 6.6 |
| Styrene | 1.004 | 1.135 | 1.226 | 1.211 | 1.181 | 1.249 | 1.168 | 7.7 |
| Bromoform | 0.186 | 0.189 | 0.184 | 0.206 | 0.188 | 0.212 | 0.194 | 6 |
| Isopropylbenzene | 2.910 | 3.454 | 3.525 | 3.657 | 3.595 | 3.825 | 3.494 | 9 |
| 1,1,2,2-Tetrachloroethane | 0.803 | 0.871 | 0.769 | 0.872 | 0.794 | 0.870 | 0.830 | 5.6 |
| 1,3-Dichlorobenzene | 1.546 | 1.721 | 1.684 | 1.752 | 1.583 | 1.679 | 1.661 | 4.8 |
| 1,4-Dichlorobenzene | 1.653 | 1.733 | 1.739 | 1.673 | 1.625 | 1.646 | 1.678 | 2.8 |
| 1,2-Dichlorobenzene | 1.455 | 1.558 | 1.490 | 1.528 | 1.450 | 1.544 | 1.504 | 3.1 |
| 1,2-Dibromo-3-Chloropropane | 0.151 | 0.146 | 0.131 | 0.159 | 0.141 | 0.157 | 0.147 | 7.1 |
| 1,2,4-Trichlorobenzene | 0.794 | 0.878 | 0.905 | 0.920 | 0.937 | 0.966 | 0.900 | 6.6 |
| 1,2,3-Trichlorobenzene | 0.714 | 0.791 | 0.804 | 0.836 | 0.866 | 0.903 | 0.819 | 8 |
| 1,2-Dichloroethane-d4 | 0.746 | 0.748 | 0.720 | 0.716 | 0.712 | 0.697 | 0.723 | 2.7 |
| Dibromofluoromethane | 0.336 | 0.328 | 0.326 | 0.325 | 0.313 | 0.311 | 0.323 | 3 |
| Toluene-d8 | 1.175 | 1.180 | 1.207 | 1.245 | 1.184 | 1.178 | 1.195 | 2.3 |
| 4-Bromofluorobenzene | 0.428 | 0.431 | 0.444 | 0.460 | 0.438 | 0.441 | 0.440 | 2.6 |

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

# Response Factor Report MSVOA_W

Method Path : Z:\voasrv\HPCHEM1\MSVOA_W\Method\
Method File : 82W081125S.M
Title : SW846 8260
Last Update : Tue Aug 12 04:04:48 2025
Response Via : Initial Calibration

Calibration Files
5 =VW032052.D 10 =VW032053.D 20 =VW032054.D 50 =VW032055.D 100 =VW032056.D 150 =VW032057.D

| | | Compound | 5 | 10 | 20 | 50 | 100 | 150 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | Pentafluorobenzene | ----------ISTD---------- | | | | | | | |
| 2) | T | Dichlorodifluo... | 0.399 | 0.383 | 0.385 | 0.336 | 0.317 | 0.325 | 0.358 | 9.94 |
| 3) | P | Chloromethane | 0.549 | 0.482 | 0.501 | 0.438 | 0.452 | 0.469 | 0.482 | 8.23 |
| 4) | C | Vinyl Chloride | 0.622 | 0.621 | 0.646 | 0.530 | 0.540 | 0.537 | 0.583 | 8.96# |
| 5) | T | Bromomethane | 0.482 | 0.452 | 0.462 | 0.411 | 0.413 | 0.403 | 0.437 | 7.45 |
| 6) | T | Chloroethane | 0.409 | 0.389 | 0.408 | 0.367 | 0.373 | 0.368 | 0.386 | 5.01 |
| 7) | T | Trichlorofluor... | 0.545 | 0.436 | 0.439 | 0.464 | 0.413 | 0.504 | 0.467 | 10.57 |
| 8) | T | Diethyl Ether | 0.391 | 0.382 | 0.392 | 0.380 | 0.372 | 0.378 | 0.382 | 2.05 |
| 9) | T | 1,1,2-Trichlor... | 0.616 | 0.566 | 0.588 | 0.517 | 0.507 | 0.510 | 0.551 | 8.37 |
| 10) | T | Methyl Iodide | 0.789 | 0.788 | 0.836 | 0.748 | 0.759 | 0.764 | 0.781 | 4.05 |
| 11) | T | Tert butyl alc... | 0.047 | 0.048 | 0.042 | 0.050 | 0.045 | 0.049 | 0.047 | 6.50 |
| 12) | CM | 1,1-Dichloroet... | 0.650 | 0.620 | 0.649 | 0.575 | 0.568 | 0.577 | 0.606 | 6.31# |
| 13) | T | Acrolein | 0.087 | 0.083 | 0.073 | 0.071 | 0.067 | 0.067 | 0.075 | 11.40 |
| 14) | T | Allyl chloride | 0.887 | 0.868 | 0.918 | 0.862 | 0.870 | 0.891 | 0.883 | 2.35 |
| 15) | T | Acrylonitrile | 0.180 | 0.189 | 0.170 | 0.192 | 0.175 | 0.187 | 0.182 | 4.66 |
| 16) | T | Acetone | 0.203 | 0.181 | 0.151 | 0.163 | 0.148 | 0.157 | 0.167 | 12.57 |
| 17) | T | Carbon Disulfide | 1.694 | 1.616 | 1.727 | 1.557 | 1.567 | 1.605 | 1.628 | 4.23 |
| 18) | T | Methyl Acetate | 0.485 | 0.604 | 0.491 | 0.555 | 0.494 | 0.551 | 0.530 | 8.98 |
| 19) | T | Methyl tert-bu... | 1.022 | 1.063 | 1.085 | 1.102 | 1.070 | 1.068 | 1.068 | 2.49 |
| 20) | T | Methylene Chlo... | 1.043 | 0.787 | 0.840 | 0.681 | 0.644 | 0.649 | 0.774 | 19.85 |
| 21) | T | trans-1,2-Dich... | 0.650 | 0.641 | 0.673 | 0.627 | 0.636 | 0.634 | 0.644 | 2.55 |
| 22) | T | Diisopropyl ether | 1.724 | 1.866 | 1.939 | 1.888 | 1.874 | 1.871 | 1.860 | 3.87 |
| 23) | T | Vinyl Acetate | 1.104 | 1.150 | 1.217 | 1.299 | 1.266 | 1.293 | 1.222 | 6.56 |
| 24) | P | 1,1-Dichloroet... | 1.193 | 1.200 | 1.249 | 1.157 | 1.173 | 1.161 | 1.189 | 2.88 |
| 25) | T | 2-Butanone | 0.233 | 0.241 | 0.217 | 0.255 | 0.233 | 0.249 | 0.238 | 5.68 |
| 26) | T | 2,2-Dichloropr... | 0.635 | 0.610 | 0.606 | 0.579 | 0.563 | 0.585 | 0.596 | 4.32 |
| 27) | T | cis-1,2-Dichlo... | 0.711 | 0.736 | 0.772 | 0.749 | 0.775 | 0.769 | 0.752 | 3.35 |
| 28) | T | Bromochloromet... | 0.561 | 0.542 | 0.549 | 0.543 | 0.521 | 0.529 | 0.541 | 2.63 |
| 29) | T | Tetrahydrofuran | 0.150 | 0.159 | 0.145 | 0.171 | 0.153 | 0.163 | 0.157 | 5.96 |
| 30) | C | Chloroform | 1.267 | 1.269 | 1.324 | 1.235 | 1.243 | 1.223 | 1.260 | 2.87# |
| 31) | T | Cyclohexane | 1.170 | 1.080 | 1.073 | 0.961 | 0.941 | 0.958 | 1.031 | 8.88 |
| 32) | T | 1,1,1-Trichlor... | 0.960 | 0.949 | 0.965 | 0.872 | 0.869 | 0.878 | 0.915 | 5.14 |
| 33) | S | 1,2-Dichloroet... | 0.746 | 0.748 | 0.720 | 0.716 | 0.712 | 0.697 | 0.723 | 2.75 |
| 34) | I | 1,4-Difluorobenzene | ----------ISTD---------- | | | | | | | |
| 35) | S | Dibromofluorom... | 0.336 | 0.328 | 0.326 | 0.325 | 0.313 | 0.311 | 0.323 | 2.97 |
| 36) | T | 1,1-Dichloropr... | 0.458 | 0.457 | 0.472 | 0.467 | 0.439 | 0.439 | 0.455 | 3.00 |
| 37) | T | Ethyl Acetate | 0.268 | 0.270 | 0.241 | 0.294 | 0.261 | 0.276 | 0.268 | 6.54 |
| 38) | T | Carbon Tetrach... | 0.441 | 0.440 | 0.451 | 0.448 | 0.426 | 0.430 | 0.439 | 2.21 |
| 39) | T | Methylcyclohexane | 0.525 | 0.540 | 0.568 | 0.578 | 0.540 | 0.578 | 0.555 | 4.12 |
| 40) | TM | Benzene | 1.399 | 1.423 | 1.439 | 1.469 | 1.365 | 1.398 | 1.415 | 2.56 |
| 41) | T | Methacrylonitrile | 0.139 | 0.137 | 0.146 | 0.167 | 0.160 | 0.162 | 0.152 | 8.40 |
| 42) | TM | 1,2-Dichloroet... | 0.461 | 0.467 | 0.458 | 0.466 | 0.429 | 0.436 | 0.453 | 3.59 |
| 43) | T | Isopropyl Acetate | 0.469 | 0.481 | 0.460 | 0.538 | 0.486 | 0.526 | 0.493 | 6.37 |
| 44) | TM | Trichloroethene | 0.353 | 0.334 | 0.342 | 0.339 | 0.319 | 0.335 | 0.337 | 3.34 |
| 45) | C | 1,2-Dichloropr... | 0.339 | 0.342 | 0.352 | 0.352 | 0.327 | 0.339 | 0.342 | 2.77# |
| 46) | T | Dibromomethane | 0.230 | 0.219 | 0.219 | 0.229 | 0.209 | 0.219 | 0.221 | 3.39 |
| 47) | T | Bromodichlorom... | 0.501 | 0.499 | 0.505 | 0.532 | 0.498 | 0.516 | 0.509 | 2.60 |
| 48) | T | Methyl methacr... | 0.211 | 0.230 | 0.223 | 0.266 | 0.238 | 0.261 | 0.238 | 9.10 |
| 49) | T | 1,4-Dioxane | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 9.50 |
| 50) | S | Toluene-d8 | 1.175 | 1.180 | 1.207 | 1.245 | 1.184 | 1.178 | 1.195 | 2.28 |
| 51) | T | 4-Methyl-2-Pen... | 0.265 | 0.284 | 0.258 | 0.312 | 0.265 | 0.287 | 0.279 | 7.26 |
| 52) | CM | Toluene | 0.837 | 0.882 | 0.910 | 0.932 | 0.887 | 0.902 | 0.892 | 3.63# |
| 53) | T | t-1,3-Dichloro... | 0.430 | 0.450 | 0.464 | 0.515 | 0.483 | 0.517 | 0.476 | 7.39 |
| 54) | T | cis-1,3-Dichlo... | 0.499 | 0.516 | 0.530 | 0.581 | 0.552 | 0.566 | 0.541 | 5.78 |
| 55) | T | 1,1,2-Trichlor... | 0.297 | 0.296 | 0.292 | 0.306 | 0.282 | 0.288 | 0.293 | 2.78 |
| 56) | T | Ethyl methacry... | 0.339 | 0.363 | 0.366 | 0.440 | 0.410 | 0.437 | 0.392 | 10.78 |

Method Path : Z:\voasrv\HPCHEM1\MSVOA_W\Method\
Method File : 82W081125S.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 57) | T | 1,3-Dichloropr... | 0.510 | 0.524 | 0.506 | 0.533 | 0.486 | 0.509 | 0.511 | 3.15 |
| 58) | T | 2-Chloroethyl ... | 0.198 | 0.208 | 0.206 | 0.241 | 0.223 | 0.227 | 0.217 | 7.42 |
| 59) | T | 2-Hexanone | 0.178 | 0.194 | 0.177 | 0.220 | 0.187 | 0.202 | 0.193 | 8.48 |
| 60) | T | Dibromochlorom... | 0.322 | 0.327 | 0.330 | 0.349 | 0.332 | 0.349 | 0.335 | 3.49 |
| 61) | T | 1,2-Dibromoethane | 0.282 | 0.283 | 0.276 | 0.299 | 0.283 | 0.287 | 0.285 | 2.67 |
| 62) | S | 4-Bromofluorob... | 0.428 | 0.431 | 0.444 | 0.460 | 0.438 | 0.441 | 0.440 | 2.60 |
| 63) | I | Chlorobenzene-d5 | ----------ISTD---------- | | | | | | | |
| 64) | T | Tetrachloroethene | 0.293 | 0.301 | 0.295 | 0.279 | 0.275 | 0.290 | 0.289 | 3.46 |
| 65) | PM | Chlorobenzene | 1.112 | 1.116 | 1.097 | 1.068 | 1.043 | 1.093 | 1.088 | 2.58 |
| 66) | T | 1,1,1,2-Tetrac... | 0.333 | 0.341 | 0.342 | 0.339 | 0.327 | 0.355 | 0.340 | 2.85 |
| 67) | C | Ethyl Benzene | 1.714 | 1.806 | 1.921 | 1.870 | 1.830 | 1.921 | 1.843 | 4.27# |
| 68) | T | m/p-Xylenes | 0.645 | 0.707 | 0.754 | 0.731 | 0.702 | 0.730 | 0.711 | 5.25 |
| 69) | T | o-Xylene | 0.578 | 0.639 | 0.673 | 0.681 | 0.675 | 0.699 | 0.657 | 6.65 |
| 70) | T | Styrene | 1.004 | 1.135 | 1.226 | 1.211 | 1.181 | 1.249 | 1.168 | 7.65 |
| 71) | P | Bromoform | 0.186 | 0.189 | 0.184 | 0.206 | 0.188 | 0.212 | 0.194 | 6.05 |
| 72) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | |
| 73) | T | Isopropylbenzene | 2.910 | 3.454 | 3.525 | 3.657 | 3.595 | 3.825 | 3.494 | 8.96 |
| 74) | T | N-amyl acetate | 0.829 | 0.983 | 0.903 | 1.113 | 1.048 | 1.140 | 1.003 | 12.11 |
| 75) | P | 1,1,2,2-Tetrac... | 0.803 | 0.871 | 0.769 | 0.872 | 0.794 | 0.870 | 0.830 | 5.62 |
| 76) | T | 1,2,3-Trichlor... | 0.702 | 0.703 | 0.672 | 0.769 | 0.578 | 0.648 | 0.679 | 9.43 |
| 77) | T | Bromobenzene | 0.746 | 0.873 | 0.802 | 0.873 | 0.860 | 0.852 | 0.835 | 6.07 |
| 78) | T | n-propylbenzene | 3.663 | 4.310 | 4.404 | 4.500 | 4.396 | 4.539 | 4.302 | 7.52 |
| 79) | T | 2-Chlorotoluene | 2.380 | 2.674 | 2.664 | 2.741 | 2.695 | 2.776 | 2.655 | 5.31 |
| 80) | T | 1,3,5-Trimethy... | 2.519 | 2.982 | 3.000 | 3.103 | 3.023 | 3.172 | 2.967 | 7.77 |
| 81) | T | trans-1,4-Dich... | 0.230 | 0.246 | 0.229 | 0.289 | 0.274 | 0.305 | 0.262 | 12.22 |
| 82) | T | 4-Chlorotoluene | 2.579 | 2.850 | 2.857 | 2.905 | 2.804 | 2.931 | 2.821 | 4.49 |
| 83) | T | tert-Butylbenzene | 2.031 | 2.395 | 2.537 | 2.583 | 2.550 | 2.675 | 2.462 | 9.34 |
| 84) | T | 1,2,4-Trimethy... | 2.533 | 3.053 | 3.137 | 3.198 | 3.013 | 3.185 | 3.020 | 8.25 |
| 85) | T | sec-Butylbenzene | 3.263 | 3.631 | 3.824 | 3.858 | 3.796 | 3.961 | 3.722 | 6.70 |
| 86) | T | p-Isopropyltol... | 2.637 | 3.049 | 3.202 | 3.295 | 3.123 | 3.313 | 3.103 | 8.03 |
| 87) | T | 1,3-Dichlorobe... | 1.546 | 1.721 | 1.684 | 1.752 | 1.583 | 1.679 | 1.661 | 4.83 |
| 88) | T | 1,4-Dichlorobe... | 1.653 | 1.733 | 1.739 | 1.673 | 1.625 | 1.646 | 1.678 | 2.83 |
| 89) | T | n-Butylbenzene | 2.606 | 2.979 | 3.064 | 3.181 | 3.052 | 3.206 | 3.015 | 7.21 |
| 90) | T | Hexachloroethane | 0.527 | 0.556 | 0.565 | 0.567 | 0.567 | 0.624 | 0.568 | 5.55 |
| 91) | T | 1,2-Dichlorobe... | 1.455 | 1.558 | 1.490 | 1.528 | 1.450 | 1.544 | 1.504 | 3.07 |
| 92) | T | 1,2-Dibromo-3-... | 0.151 | 0.146 | 0.131 | 0.159 | 0.141 | 0.157 | 0.147 | 7.12 |
| 93) | T | 1,2,4-Trichlor... | 0.794 | 0.878 | 0.905 | 0.920 | 0.937 | 0.966 | 0.900 | 6.63 |
| 94) | T | Hexachlorobuta... | 0.412 | 0.413 | 0.397 | 0.385 | 0.383 | 0.424 | 0.402 | 4.10 |
| 95) | T | Naphthalene | 1.760 | 2.104 | 2.001 | 2.430 | 2.327 | 2.608 | 2.205 | 14.02 |
| 96) | T | 1,2,3-Trichlor... | 0.714 | 0.791 | 0.804 | 0.836 | 0.866 | 0.903 | 0.819 | 8.04 |

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032052.D
Acq On : 11 Aug 2025 08:25
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Quant Time: Aug 12 03:36:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.959 | 168 | 225574 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.849 | 114 | 424617 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.629 | 117 | 391234 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.556 | 152 | 196943 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.313 | 65 | 16827 | 5.158 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 63 - 155 | | Recovery = 10.320%# | | | |
| 35) Dibromofluoromethane | 7.898 | 113 | 14278 | 5.205 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 70 - 134 | | Recovery = 10.400%# | | | |
| 50) Toluene-d8 | 10.331 | 98 | 49876 | 4.916 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 123 | | Recovery = 9.840%# | | | |
| 62) 4-Bromofluorobenzene | 12.617 | 95 | 18184 | 4.863 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 17 - 146 | | Recovery = 9.720%# | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.046 | 85 | 9007 | 5.583 | ug/l | 100 |
| 3) Chloromethane | 2.253 | 50 | 12377 | 5.695 | ug/l | 95 |
| 4) Vinyl Chloride | 2.399 | 62 | 14029 | 5.337 | ug/l | 91 |
| 5) Bromomethane | 2.826 | 94 | 10878 | 5.516 | ug/l | 95 |
| 6) Chloroethane | 2.966 | 64 | 9219 | 5.300 | ug/l | 98 |
| 7) Trichlorofluoromethane | 3.302 | 101 | 12298 | 5.840 | ug/l | 94 |
| 8) Diethyl Ether | 3.716 | 74 | 8824 | 5.114 | ug/l | 98 |
| 9) 1,1,2-Trichlorotrifluo... | 4.100 | 101 | 13903 | 5.596 | ug/l | 94 |
| 10) Methyl Iodide | 4.301 | 142 | 17789 | 5.050 | ug/l | 99 |
| 11) Tert butyl alcohol | 5.222 | 59 | 5328 | 25.221 | ug/l | 94 |
| 12) 1,1-Dichloroethene | 4.076 | 96 | 14655 | 5.357 | ug/l | 94 |
| 13) Acrolein | 3.929 | 56 | 9831 | 29.207 | ug/l | 89 |
| 14) Allyl chloride | 4.698 | 41 | 19999 | 5.023 | ug/l | 98 |
| 15) Acrylonitrile | 5.399 | 53 | 20340 | 24.751 | ug/l | 99 |
| 16) Acetone | 4.161 | 43 | 22915 | 30.337 | ug/l | 99 |
| 17) Carbon Disulfide | 4.417 | 76 | 38213 | 5.204 | ug/l | 96 |
| 18) Methyl Acetate | 4.704 | 43 | 10943 | 4.578 | ug/l # | 76 |
| 19) Methyl tert-butyl Ether | 5.460 | 73 | 23062 | 4.785 | ug/l | 99 |
| 20) Methylene Chloride | 4.954 | 84 | 23529 | 6.737 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 5.454 | 96 | 14671 | 5.053 | ug/l | 93 |
| 22) Diisopropyl ether | 6.338 | 45 | 38895 | 4.634 | ug/l | 94 |
| 23) Vinyl Acetate | 6.283 | 43 | 124477 | 22.588 | ug/l | 98 |
| 24) 1,1-Dichloroethane | 6.246 | 63 | 26909 | 5.018 | ug/l | 99 |
| 25) 2-Butanone | 7.197 | 43 | 26284 | 24.484 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 7.185 | 77 | 14330 | 5.326 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 7.191 | 96 | 16041 | 4.727 | ug/l | 98 |
| 28) Bromochloromethane | 7.526 | 49 | 12660 | 5.188 | ug/l | 98 |
| 29) Tetrahydrofuran | 7.551 | 42 | 16965 | 23.963 | ug/l | 96 |
| 30) Chloroform | 7.691 | 83 | 28586 | 5.028 | ug/l | 99 |
| 31) Cyclohexane | 7.959 | 56 | 26393 | 5.677 | ug/l # | 83 |
| 32) 1,1,1-Trichloroethane | 7.880 | 97 | 21662 | 5.246 | ug/l | 96 |
| 36) 1,1-Dichloropropene | 8.099 | 75 | 19468 | 5.034 | ug/l | 99 |
| 37) Ethyl Acetate | 7.276 | 43 | 11365 | 4.990 | ug/l | 99 |
| 38) Carbon Tetrachloride | 8.081 | 117 | 18734 | 5.020 | ug/l | 92 |
| 39) Methylcyclohexane | 9.337 | 83 | 22284 | 4.728 | ug/l | 94 |
| 40) Benzene | 8.331 | 78 | 59395 | 4.941 | ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032052.D
Acq On : 11 Aug 2025 08:25
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Quant Time: Aug 12 03:36:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.496 | 41 | 5910 | 4.576 ug/l # | 95 |
| 42) 1,2-Dichloroethane | 8.410 | 62 | 19560 | 5.085 ug/l | 99 |
| 43) Isopropyl Acetate | 8.435 | 43 | 19928 | 4.756 ug/l | 98 |
| 44) Trichloroethene | 9.093 | 130 | 14999 | 5.240 ug/l | 93 |
| 45) 1,2-Dichloropropane | 9.374 | 63 | 14387 | 4.954 ug/l | 98 |
| 46) Dibromomethane | 9.465 | 93 | 9753 | 5.204 ug/l | 97 |
| 47) Bromodichloromethane | 9.648 | 83 | 21279 | 4.927 ug/l | 100 |
| 48) Methyl methacrylate | 9.441 | 41 | 8949 | 4.424 ug/l | 97 |
| 49) 1,4-Dioxane | 9.465 | 88 | 2259 | 93.217 ug/l # | 85 |
| 51) 4-Methyl-2-Pentanone | 10.215 | 43 | 56184 | 23.755 ug/l | 98 |
| 52) Toluene | 10.386 | 92 | 35525 | 4.692 ug/l | 96 |
| 53) t-1,3-Dichloropropene | 10.611 | 75 | 18259 | 4.513 ug/l | 100 |
| 54) cis-1,3-Dichloropropene | 10.075 | 75 | 21173 | 4.612 ug/l | 97 |
| 55) 1,1,2-Trichloroethane | 10.788 | 97 | 12594 | 5.057 ug/l | 95 |
| 56) Ethyl methacrylate | 10.648 | 69 | 14387 | 4.317 ug/l | 95 |
| 57) 1,3-Dichloropropane | 10.934 | 76 | 21654 | 4.988 ug/l | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.928 | 63 | 41991 | 22.777 ug/l | 98 |
| 59) 2-Hexanone | 10.971 | 43 | 37796 | 23.074 ug/l | 95 |
| 60) Dibromochloromethane | 11.129 | 129 | 13654 | 4.799 ug/l | 98 |
| 61) 1,2-Dibromoethane | 11.239 | 107 | 11992 | 4.955 ug/l | 100 |
| 64) Tetrachloroethene | 10.861 | 164 | 11449 | 5.066 ug/l | 93 |
| 65) Chlorobenzene | 11.654 | 112 | 43515 | 5.110 ug/l | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 11.733 | 131 | 13037 | 4.907 ug/l | 98 |
| 67) Ethyl Benzene | 11.727 | 91 | 67071 | 4.650 ug/l | 97 |
| 68) m/p-Xylenes | 11.837 | 106 | 50482 | 9.070 ug/l | 96 |
| 69) o-Xylene | 12.166 | 106 | 22602 | 4.393 ug/l | 97 |
| 70) Styrene | 12.178 | 104 | 39288 | 4.300 ug/l | 98 |
| 71) Bromoform | 12.349 | 173 | 7283 | 4.792 ug/l # | 95 |
| 73) Isopropylbenzene | 12.458 | 105 | 57306 | 4.164 ug/l | 98 |
| 74) N-amyl acetate | 12.269 | 43 | 16327 | 4.135 ug/l | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.708 | 83 | 15805 | 4.836 ug/l | 98 |
| 76) 1,2,3-Trichloropropane | 12.763 | 75 | 13829m | 4.568 ug/l | |
| 77) Bromobenzene | 12.745 | 156 | 14698 | 4.471 ug/l | 97 |
| 78) n-propylbenzene | 12.800 | 91 | 72140 | 4.257 ug/l | 99 |
| 79) 2-Chlorotoluene | 12.885 | 91 | 46879 | 4.483 ug/l | 98 |
| 80) 1,3,5-Trimethylbenzene | 12.940 | 105 | 49607 | 4.245 ug/l | 97 |
| 81) trans-1,4-Dichloro-2-b... | 12.513 | 75 | 4520 | 4.378 ug/l | 92 |
| 82) 4-Chlorotoluene | 12.983 | 91 | 50782 | 4.570 ug/l | 100 |
| 83) tert-Butylbenzene | 13.202 | 119 | 39993 | 4.124 ug/l | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.245 | 105 | 49891 | 4.194 ug/l | 100 |
| 85) sec-Butylbenzene | 13.379 | 105 | 64254 | 4.382 ug/l | 98 |
| 86) p-Isopropyltoluene | 13.495 | 119 | 51939 | 4.249 ug/l | 97 |
| 87) 1,3-Dichlorobenzene | 13.495 | 146 | 30445 | 4.654 ug/l | 94 |
| 88) 1,4-Dichlorobenzene | 13.574 | 146 | 32554 | 4.925 ug/l | 95 |
| 89) n-Butylbenzene | 13.818 | 91 | 51328 | 4.323 ug/l | 99 |
| 90) Hexachloroethane | 14.086 | 117 | 10372 | 4.640 ug/l | 99 |
| 91) 1,2-Dichlorobenzene | 13.867 | 146 | 28653 | 4.836 ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.476 | 75 | 2976 | 5.123 ug/l | 93 |
| 93) 1,2,4-Trichlorobenzene | 15.123 | 180 | 15646 | 4.414 ug/l | 99 |
| 94) Hexachlorobutadiene | 15.226 | 225 | 8109 | 5.118 ug/l | 98 |
| 95) Naphthalene | 15.360 | 128 | 34667 | 3.991 ug/l | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.549 | 180 | 14053 | 4.357 ug/l | 92 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032052.D
Acq On : 11 Aug 2025 08:25
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Quant Time: Aug 12 03:36:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

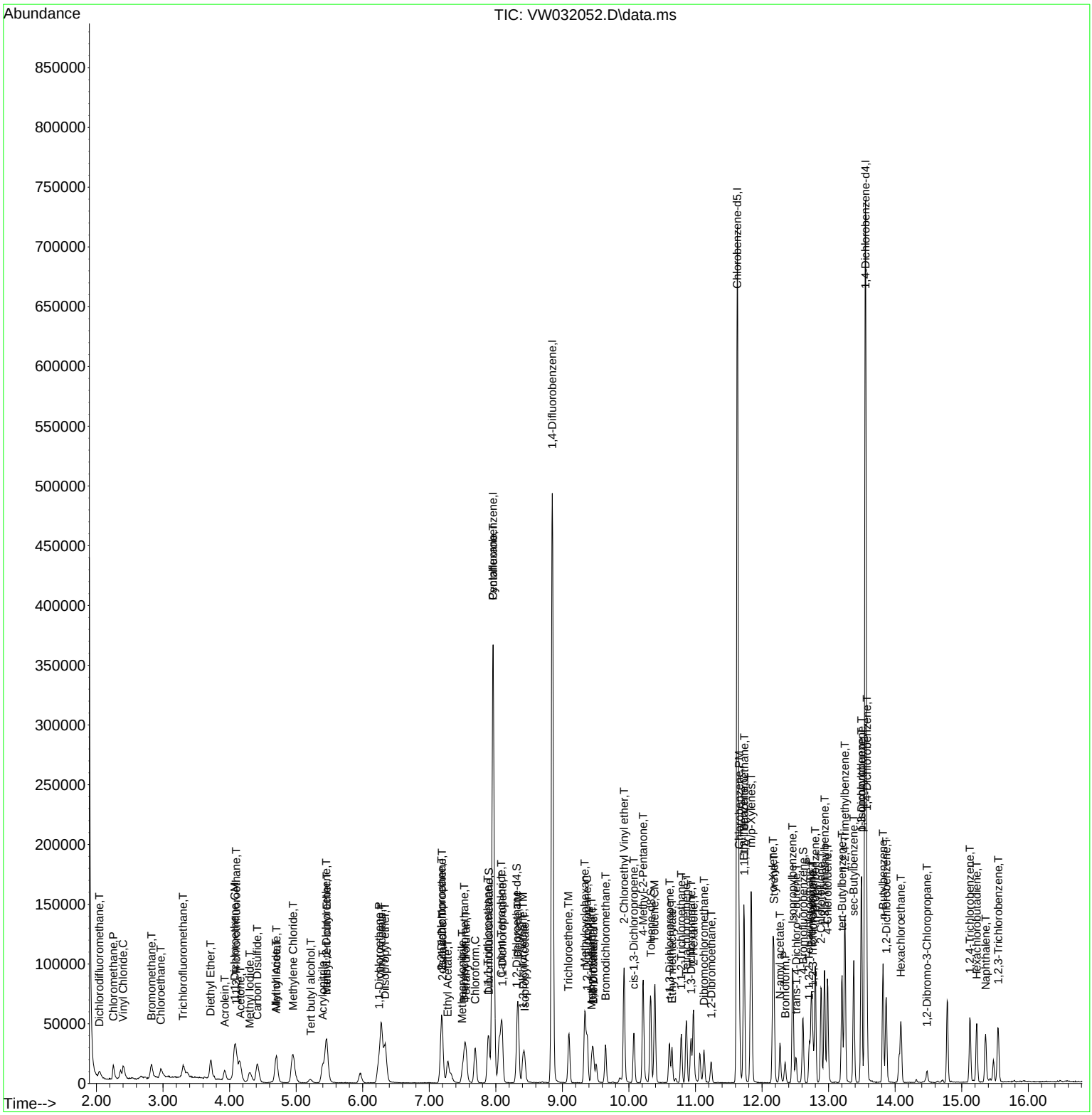
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032052.D
Acq On : 11 Aug 2025 08:25
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

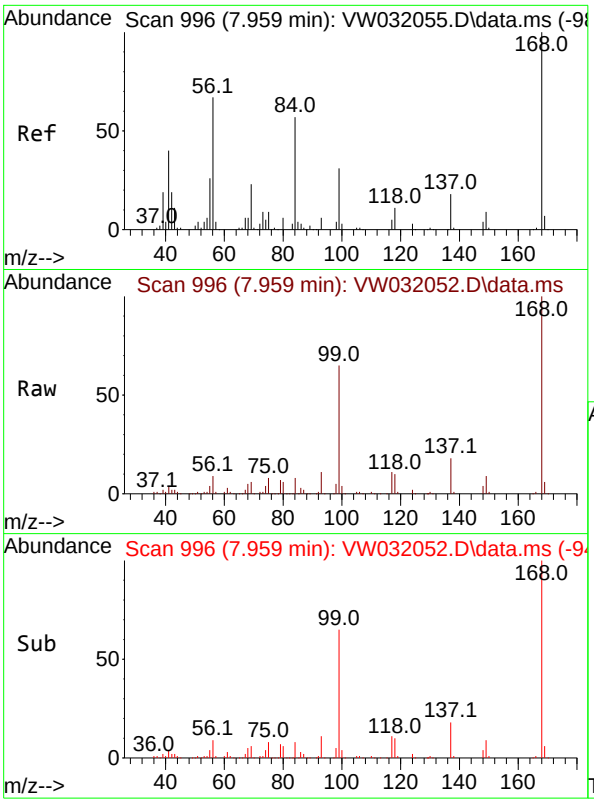
Quant Time: Aug 12 03:36:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

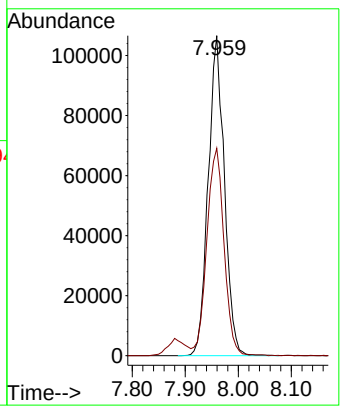





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:168 Resp: 22557

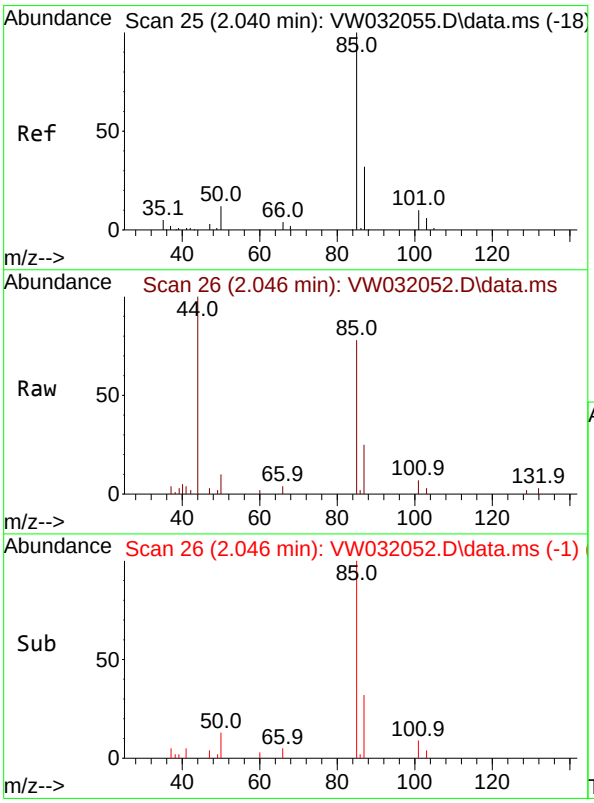
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 64.7 | 56.0 | 84.0 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

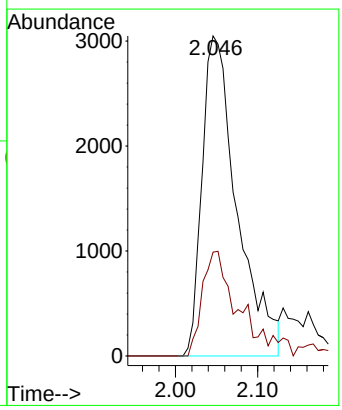
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

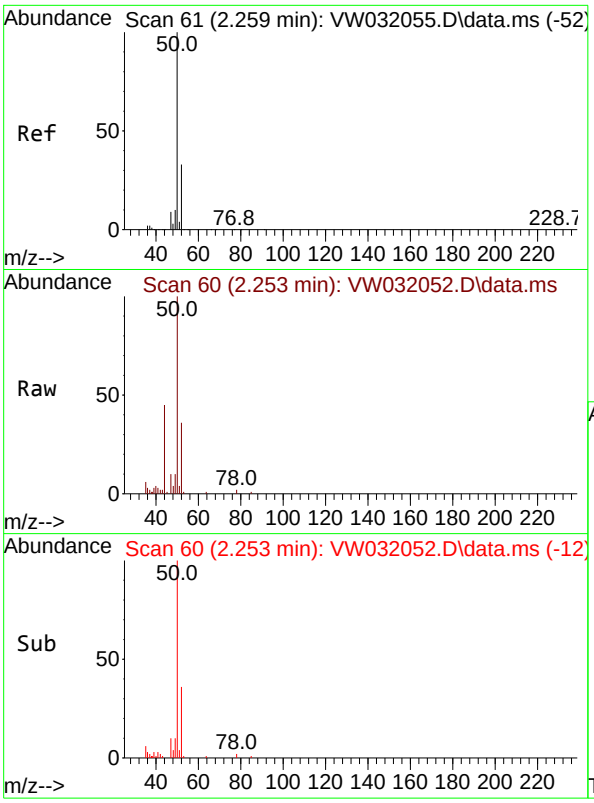



#2
Dichlorodifluoromethane
Concen: 5.583 ug/l
RT: 2.046 min Scan# 26
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 85 Resp: 9007

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.5 | 16.2 | 48.6 |

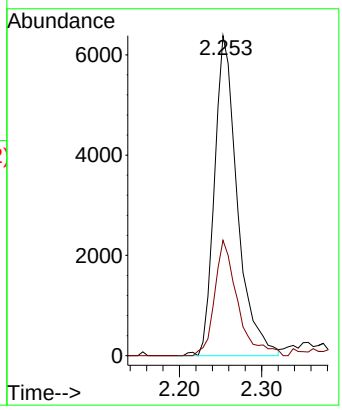





#3
Chloromethane
Concen: 5.695 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 50 Resp: 1237

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 36.1 | 26.6 | 39.8 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
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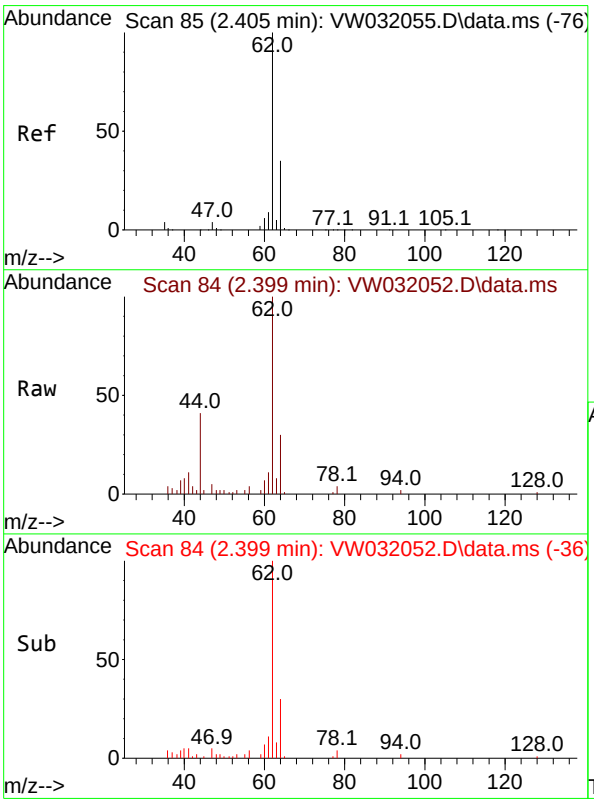
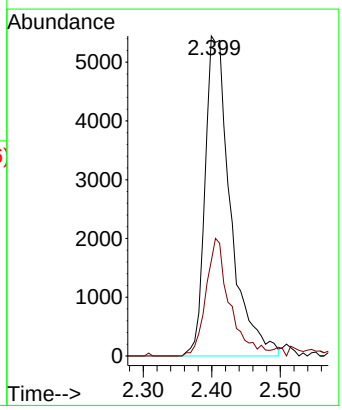
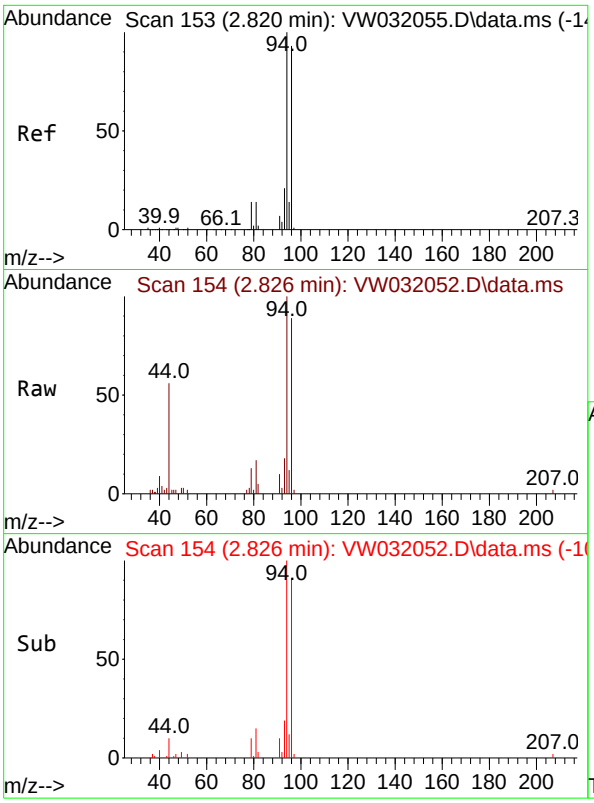



#4
Vinyl Chloride
Concen: 5.337 ug/l
RT: 2.399 min Scan# 84
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 62 Resp: 14029

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 29.8 | 27.8 | 41.6 |






#5
Bromomethane
Concen: 5.516 ug/l
RT: 2.826 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

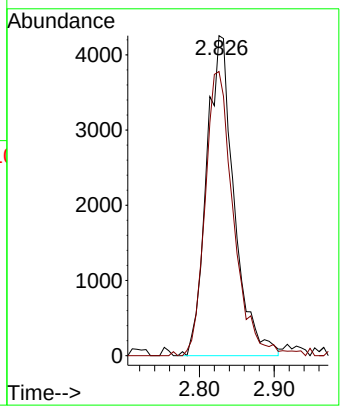
Tgt Ion: 94 Resp: 1087

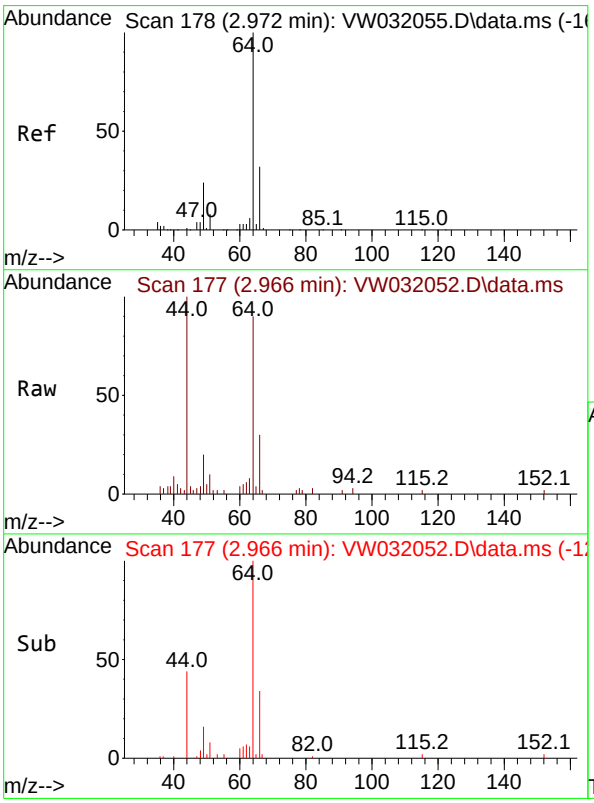
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 88.8 | 74.7 | 112.1 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

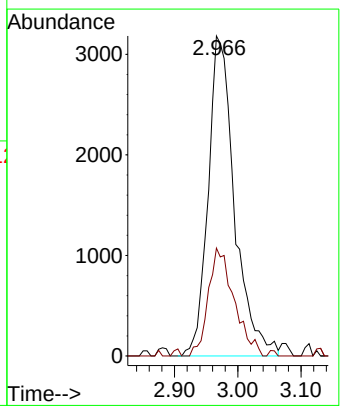


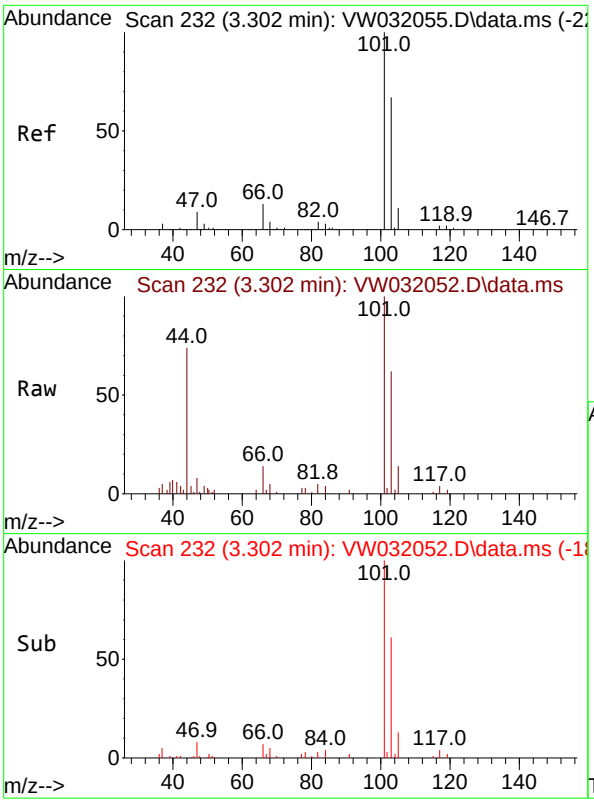




#6
Chloroethane
Concen: 5.300 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 64 Resp: 9219

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 33.7 | 26.0 | 39.0 |

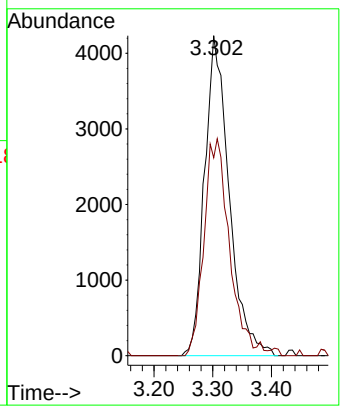





#7
Trichlorofluoromethane
Concen: 5.840 ug/l
RT: 3.302 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:101 Resp: 1229

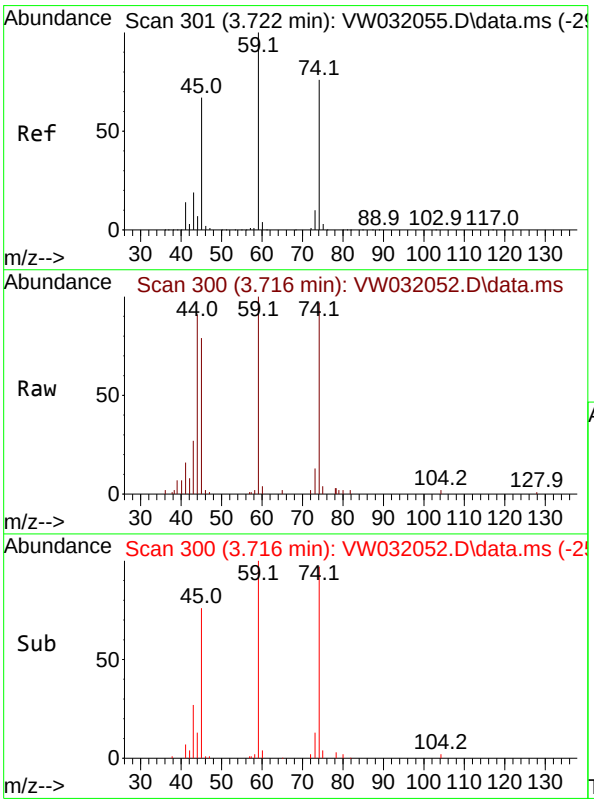
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 61.8 | 53.4 | 80.0 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

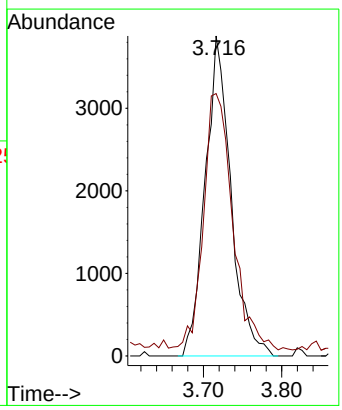
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

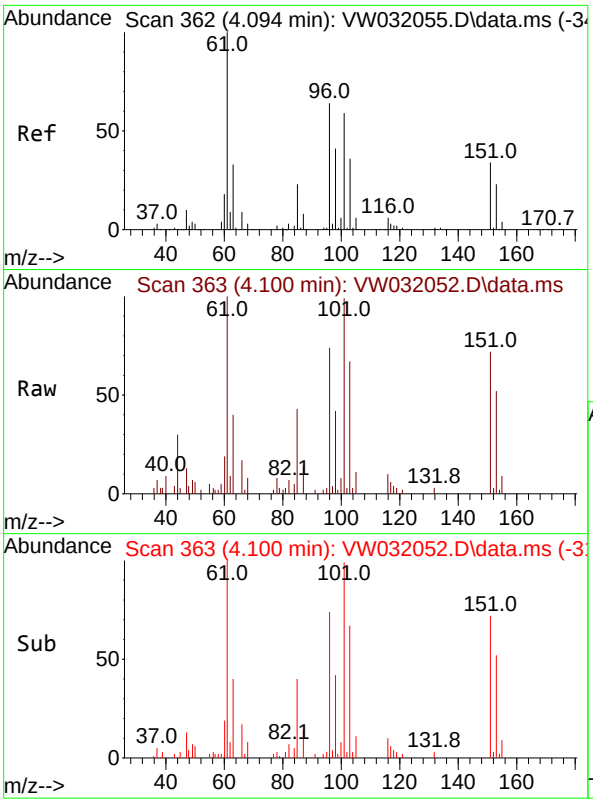



#8
Diethyl Ether
Concen: 5.114 ug/l
RT: 3.716 min Scan# 300
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 74 Resp: 8824

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 92.8 | 45.4 | 136.2 |

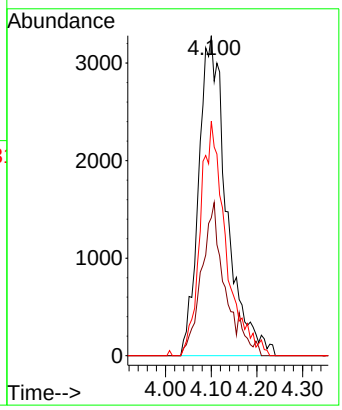





#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.596 ug/l
RT: 4.100 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:101 Resp: 1390

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 36.9 | 34.9 | 52.3 |
| 151 | 67.0 | 56.2 | 84.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
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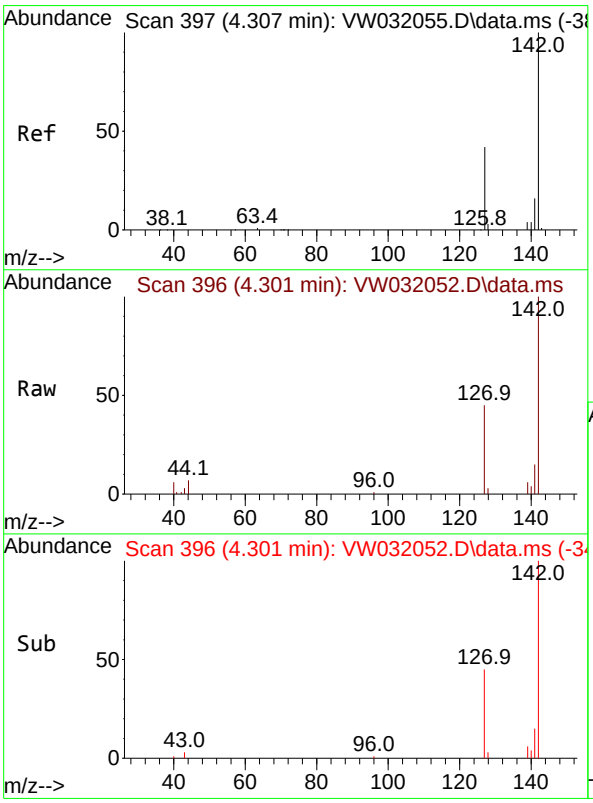
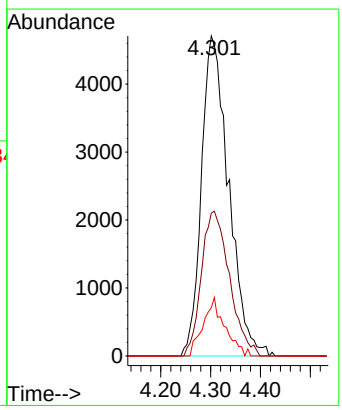
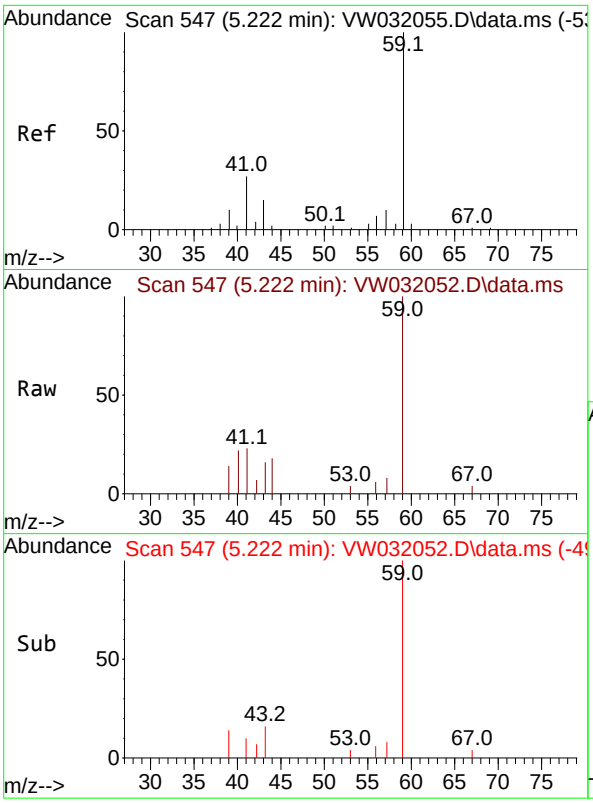



#10
Methyl Iodide
Concen: 5.050 ug/l
RT: 4.301 min Scan# 396
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:142 Resp: 17789

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 46.8 | 36.6 | 55.0 |
| 141 | 14.6 | 12.1 | 18.1 |

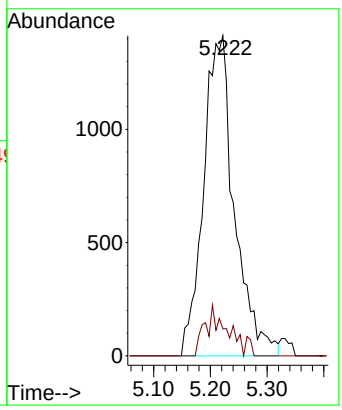





#11
Tert butyl alcohol
Concen: 25.221 ug/l
RT: 5.222 min Scan# 54
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 59 Resp: 532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 8.7 | 8.7 | 13.1 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

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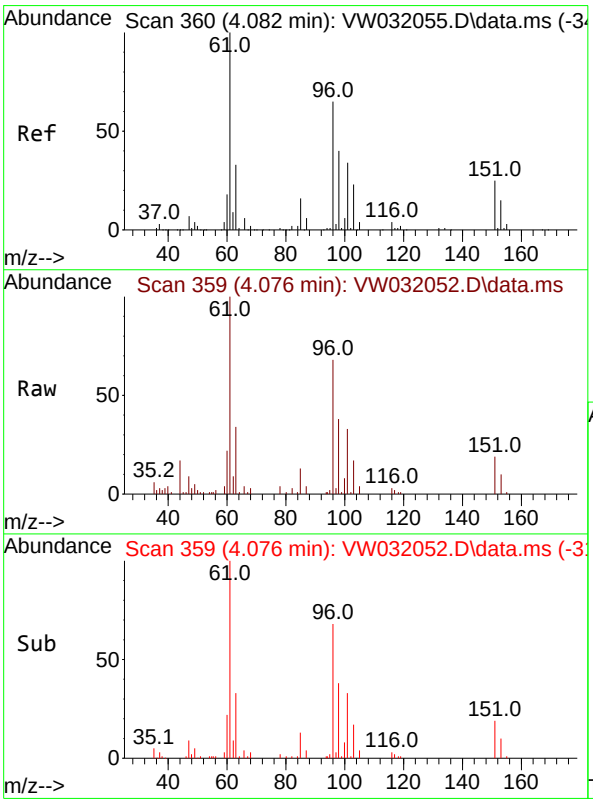
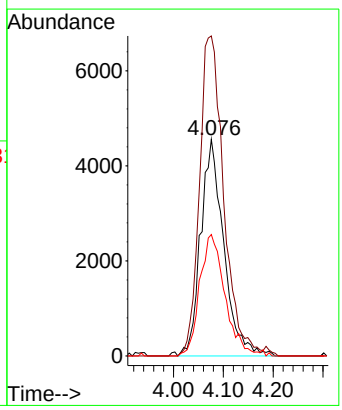
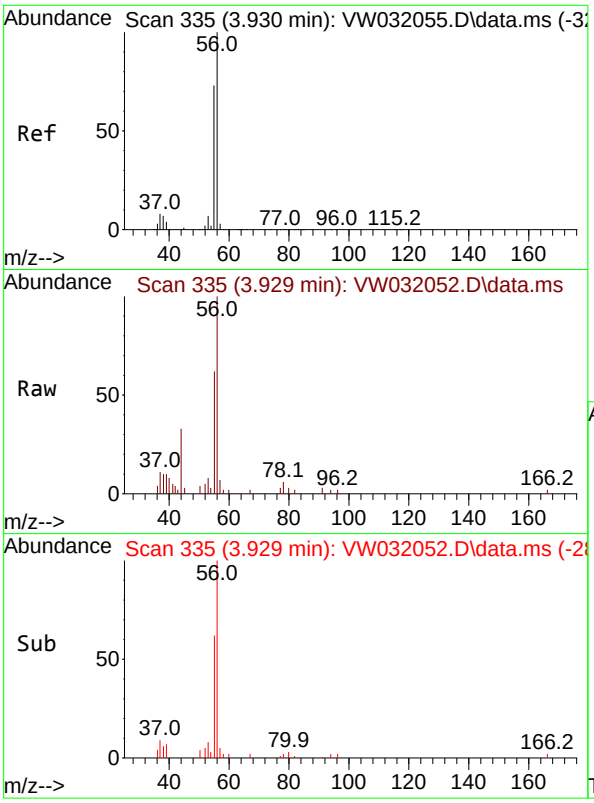



#12
1,1-Dichloroethene
Concen: 5.357 ug/l
RT: 4.076 min Scan# 359
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 96 Resp: 14655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 147.7 | 123.4 | 185.2 |
| 98 | 56.0 | 49.5 | 74.3 |






#13
Acrolein
Concen: 29.207 ug/l
RT: 3.929 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 56 Resp: 983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 78.5 | 55.4 | 83.2 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

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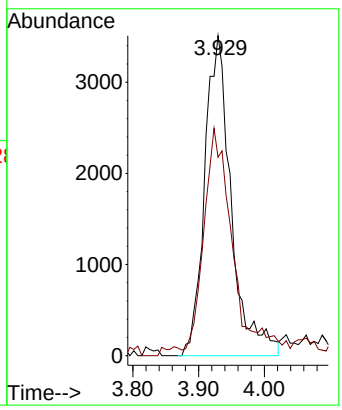
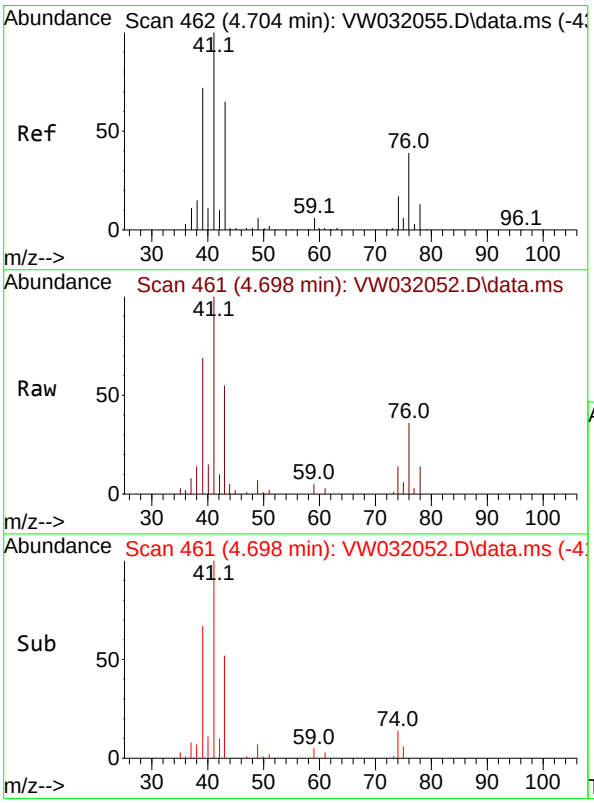
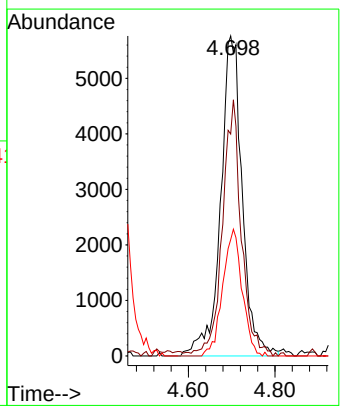


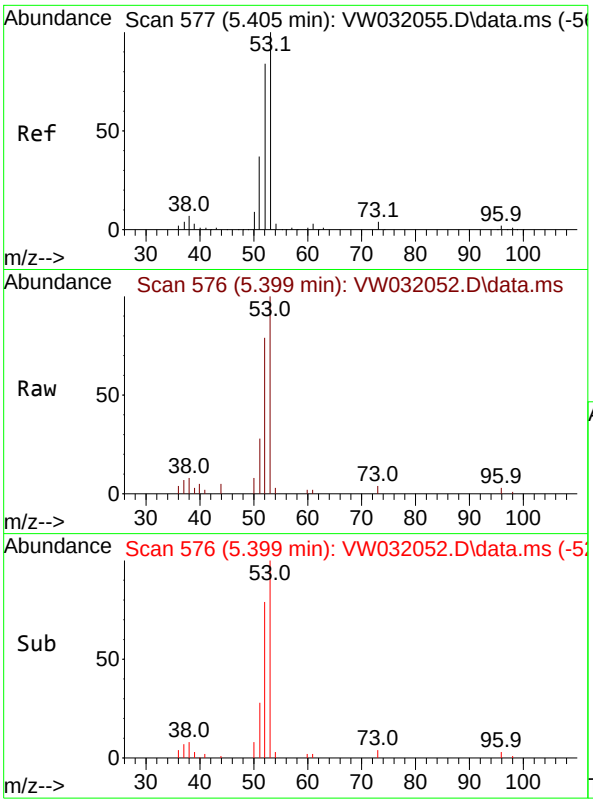




#14
Allyl chloride
Concen: 5.023 ug/l
RT: 4.698 min Scan# 461
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 41 Resp: 19999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 70.2 | 54.5 | 81.7 |
| 76 | 35.7 | 29.3 | 43.9 |

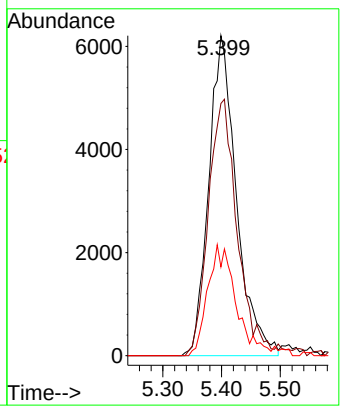





#15
Acrylonitrile
Concen: 24.751 ug/l
RT: 5.399 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 53 Resp: 2034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 83.0 | 66.1 | 99.1 |
| 51 | 35.2 | 29.2 | 43.8 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

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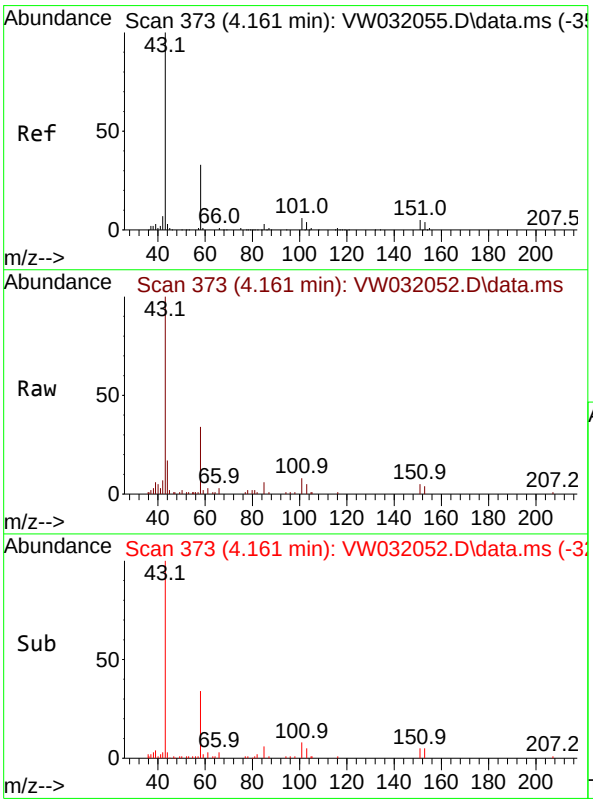
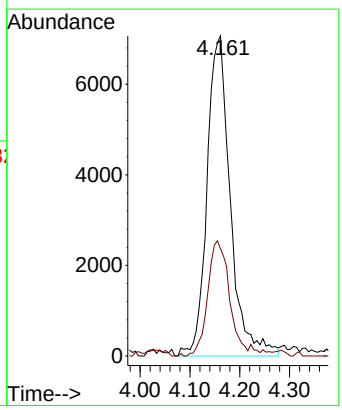
Supervised By :Semsettin Yesilyurt 08/12/2025

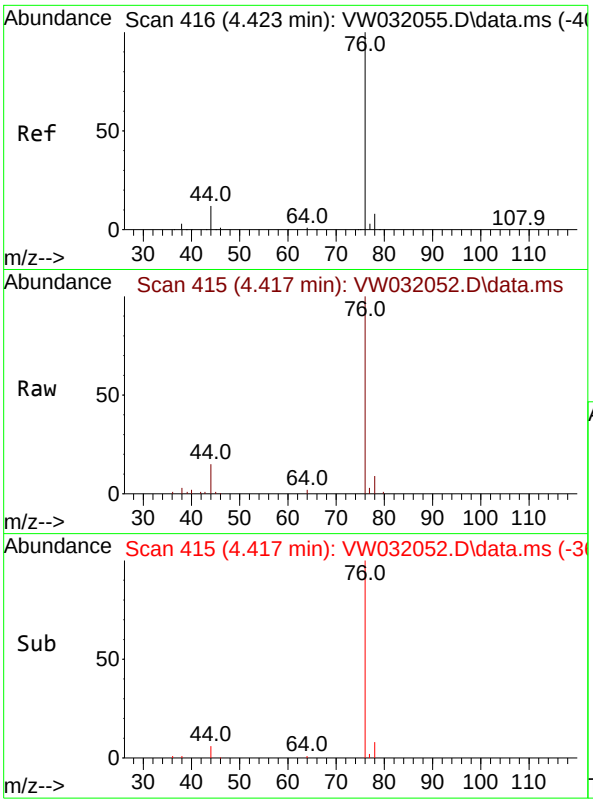



#16
Acetone
Concen: 30.337 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 43 Resp: 22915

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.5 | 26.6 | 39.8 |






#17
Carbon Disulfide
Concen: 5.204 ug/l
RT: 4.417 min Scan# 4
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 76 Resp: 3821

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.4 | 6.4 | 9.6 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

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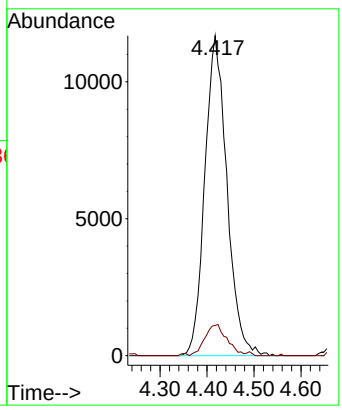
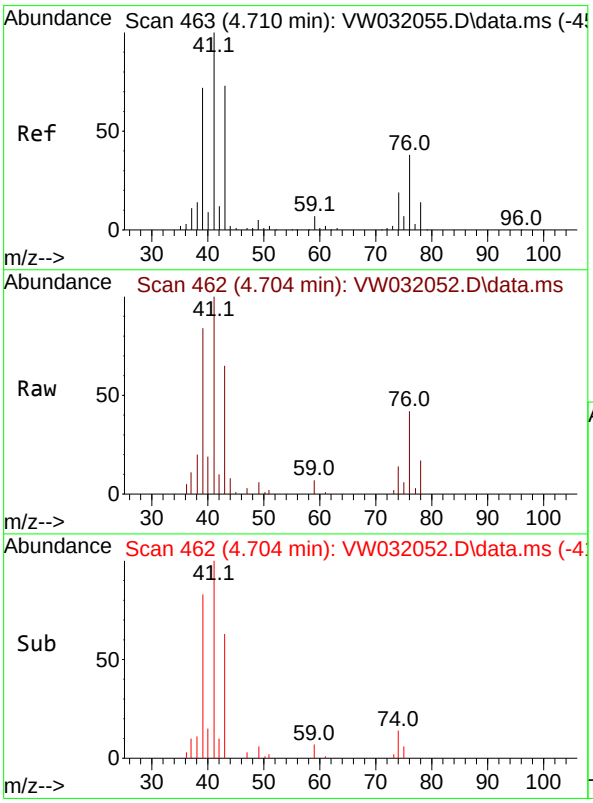
Supervised By :Semsettin Yesilyurt 08/12/2025

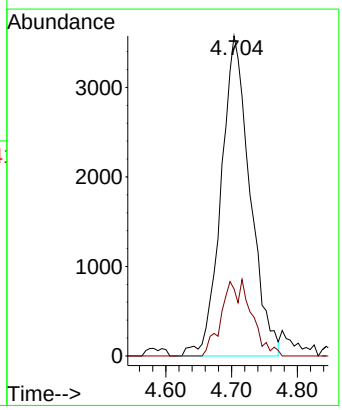


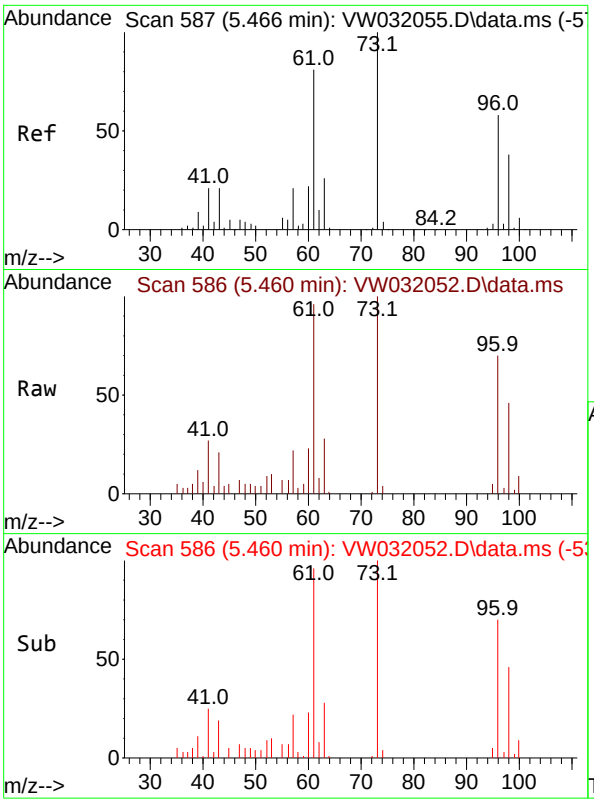




#18
Methyl Acetate
Concen: 4.578 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 43 Resp: 10943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 13.7 | 20.6 | 31.0# |

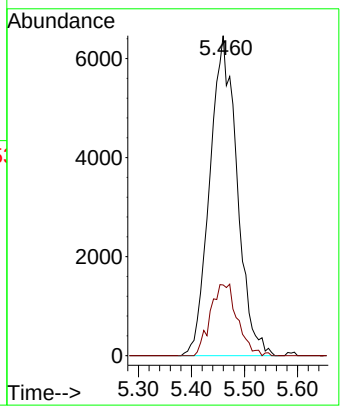





#19
Methyl tert-butyl Ether
Concen: 4.785 ug/l
RT: 5.460 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 73 Resp: 2306

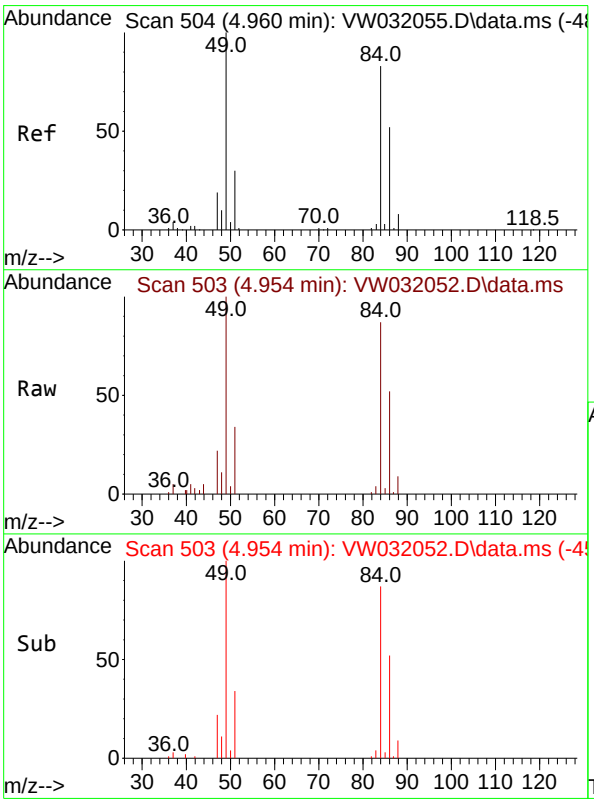
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.1 | 17.2 | 25.8 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

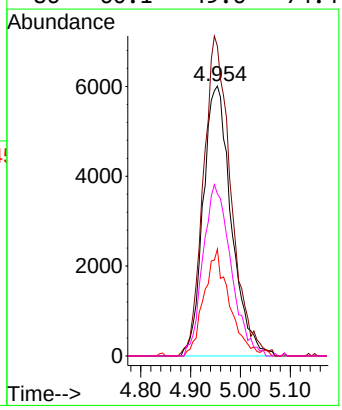
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

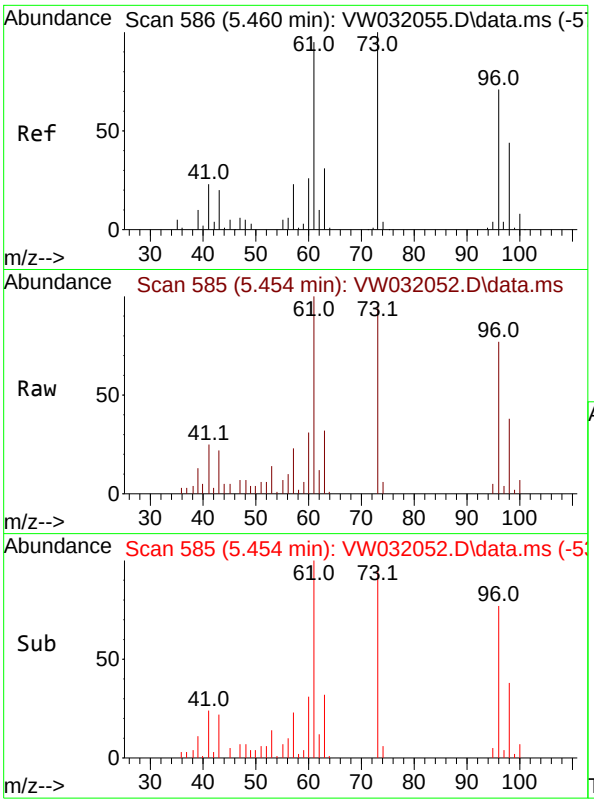



#20
Methylene Chloride
Concen: 6.737 ug/l
RT: 4.954 min Scan# 503
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 84 Resp: 23529

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 114.8 | 95.9 | 143.9 |
| 51 | 39.6 | 28.6 | 43.0 |
| 86 | 60.1 | 49.6 | 74.4 |

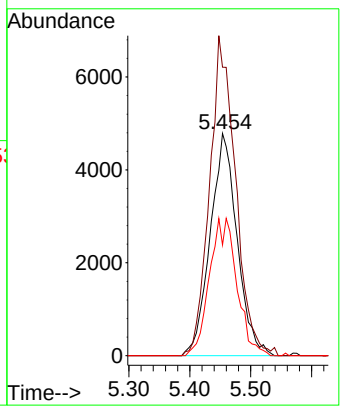





#21
trans-1,2-Dichloroethene
Concen: 5.053 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 96 Resp: 1467

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 129.9 | 106.8 | 160.2 |
| 98 | 49.8 | 49.6 | 74.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
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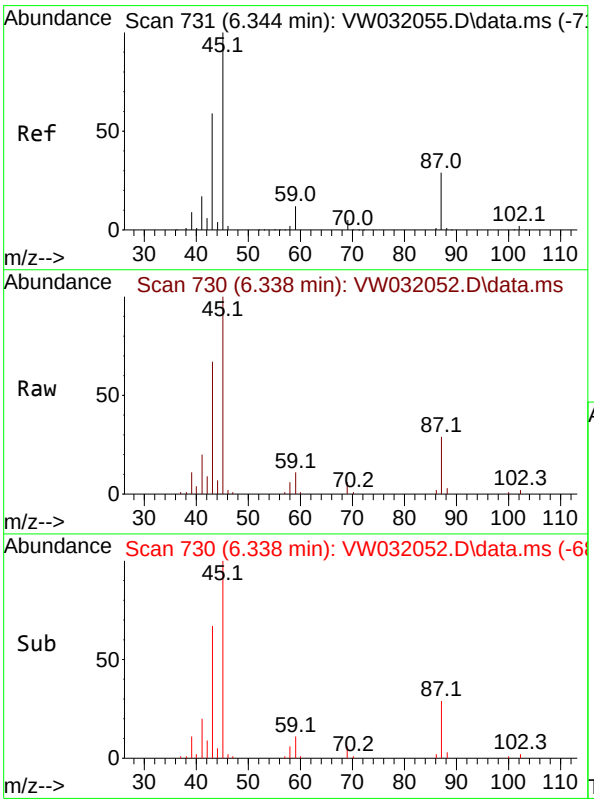
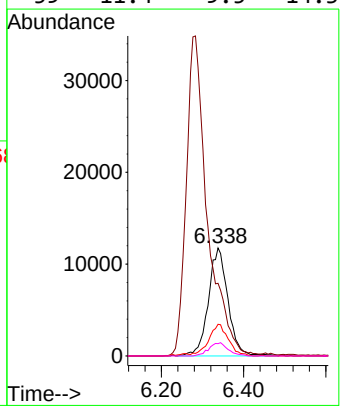
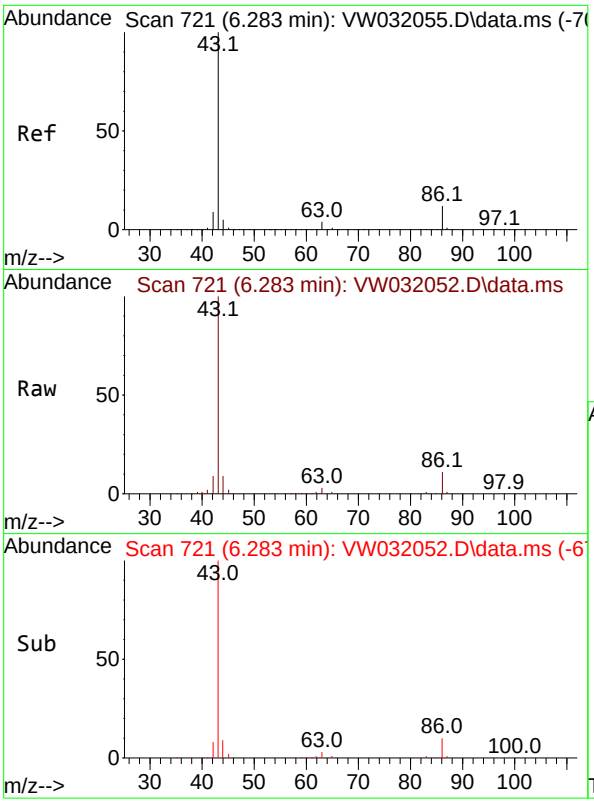



#22
Diisopropyl ether
Concen: 4.634 ug/l
RT: 6.338 min Scan# 730
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 45 Resp: 38895

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 66.3 | 47.0 | 70.4 |
| 87 | 29.4 | 23.8 | 35.8 |
| 59 | 11.4 | 9.5 | 14.3 |






#23
Vinyl Acetate
Concen: 22.588 ug/l
RT: 6.283 min Scan# 7
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 43 Resp: 12447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.9 | 9.4 | 14.0 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

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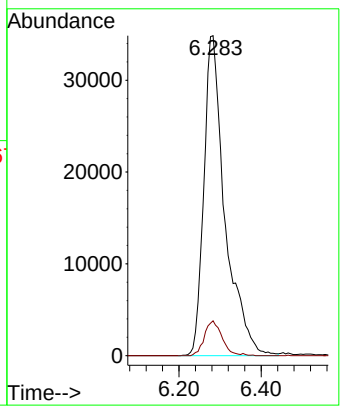
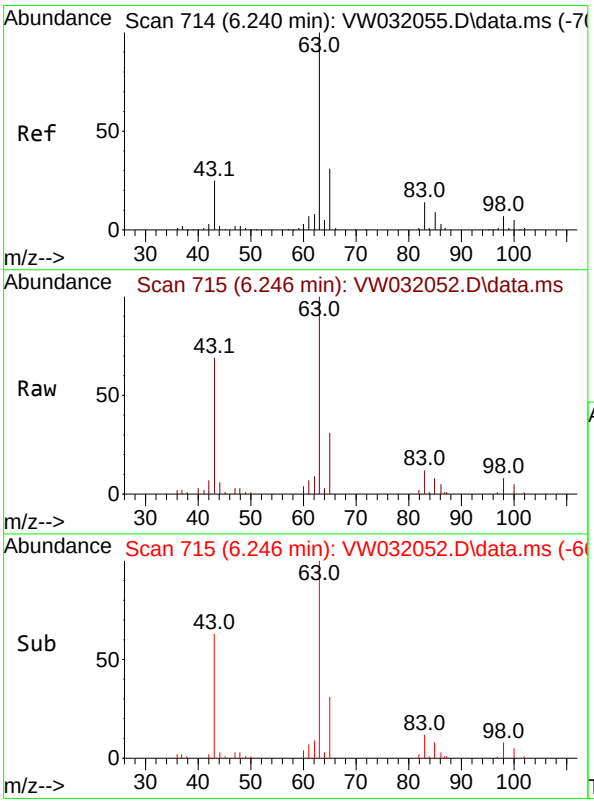
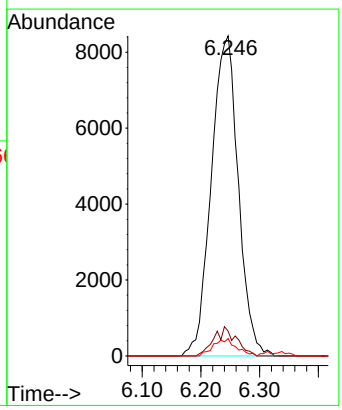


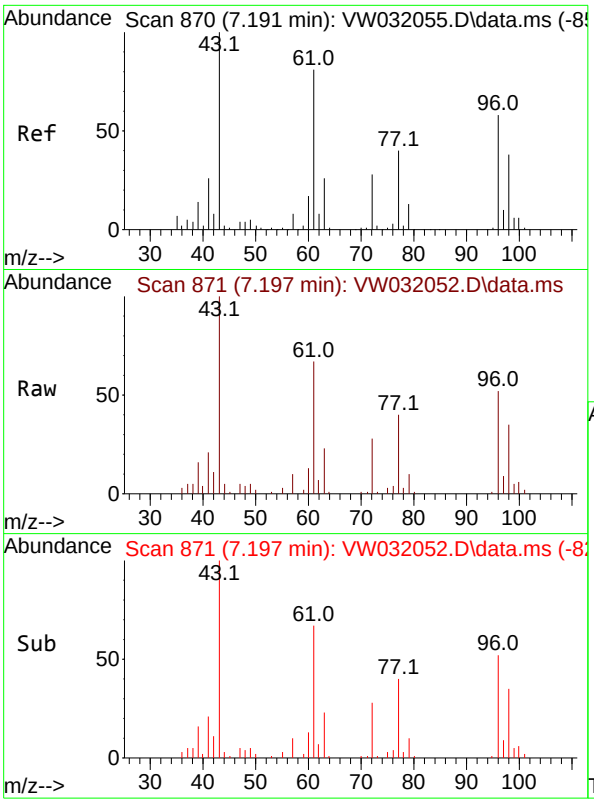




#24
1,1-Dichloroethane
Concen: 5.018 ug/l
RT: 6.246 min Scan# 715
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 63 Resp: 26909

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.8 | 3.7 | 11.1 |
| 100 | 5.4 | 2.5 | 7.4 |






#25
2-Butanone
Concen: 24.484 ug/l
RT: 7.197 min Scan# 8
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 43 Resp: 2628

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 27.8 | 22.3 | 33.5 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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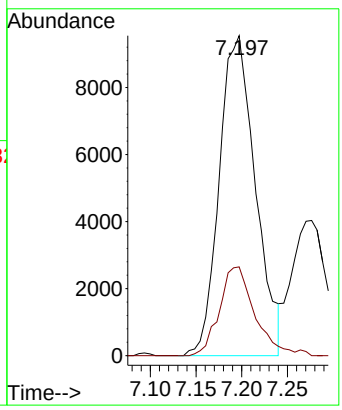
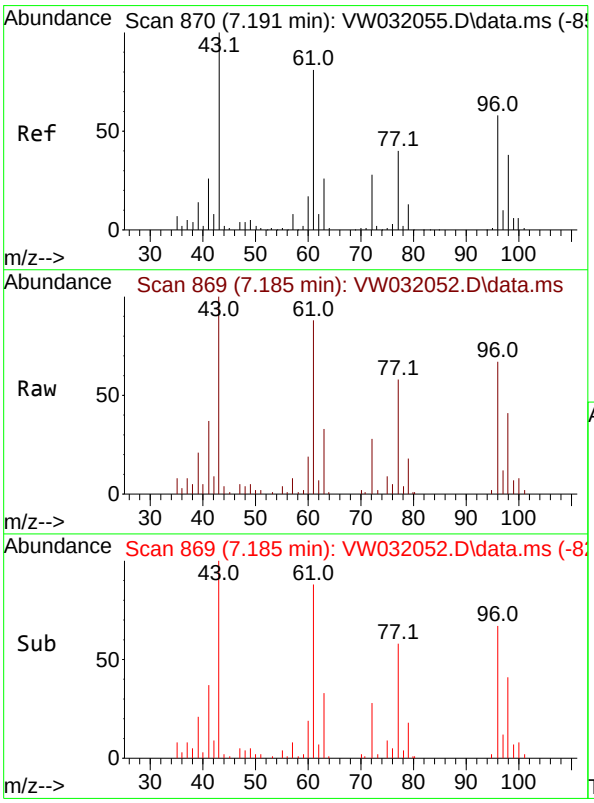
Supervised By :Semsettin Yesilyurt 08/12/2025

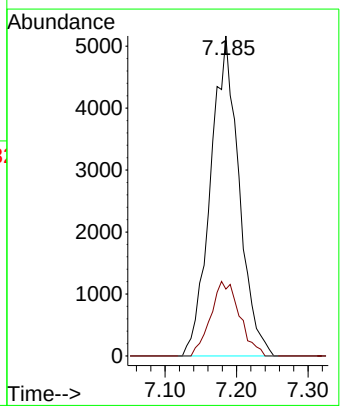


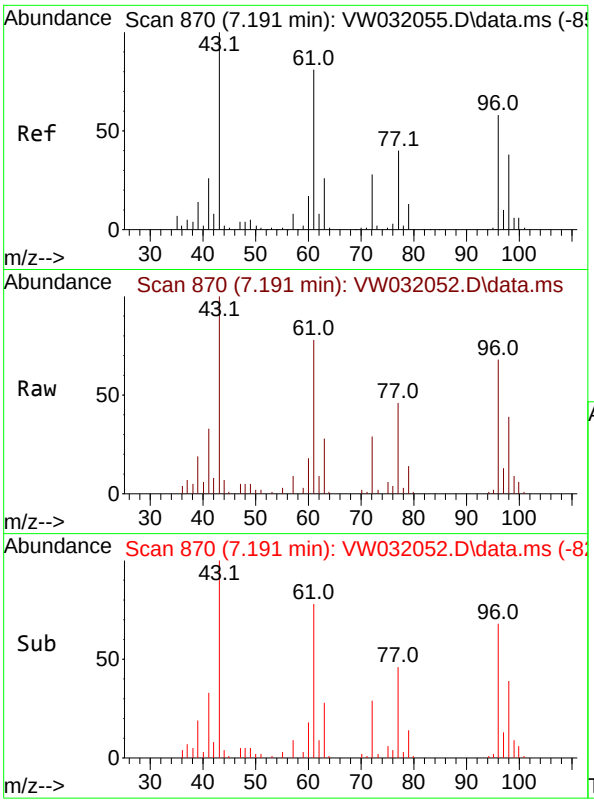




#26
2,2-Dichloropropane
Concen: 5.326 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 77 Resp: 14330

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.6 | 12.3 | 36.9 |

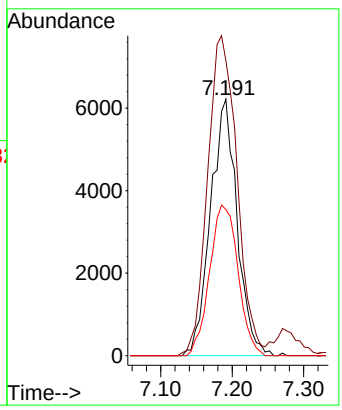





#27
cis-1,2-Dichloroethene
Concen: 4.727 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 96 Resp: 1604

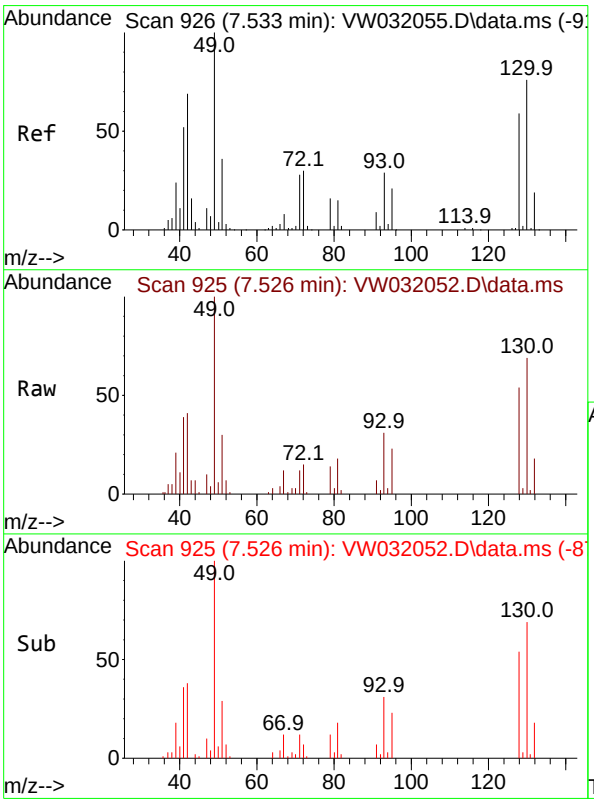
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 138.1 | 0.0 | 281.2 |
| 98 | 62.9 | 0.0 | 130.8 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

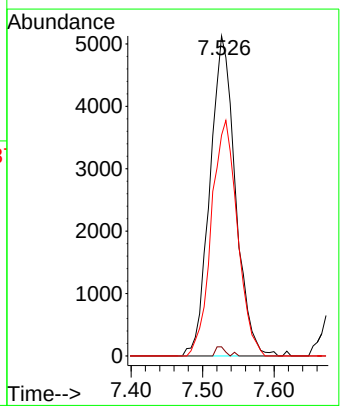
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

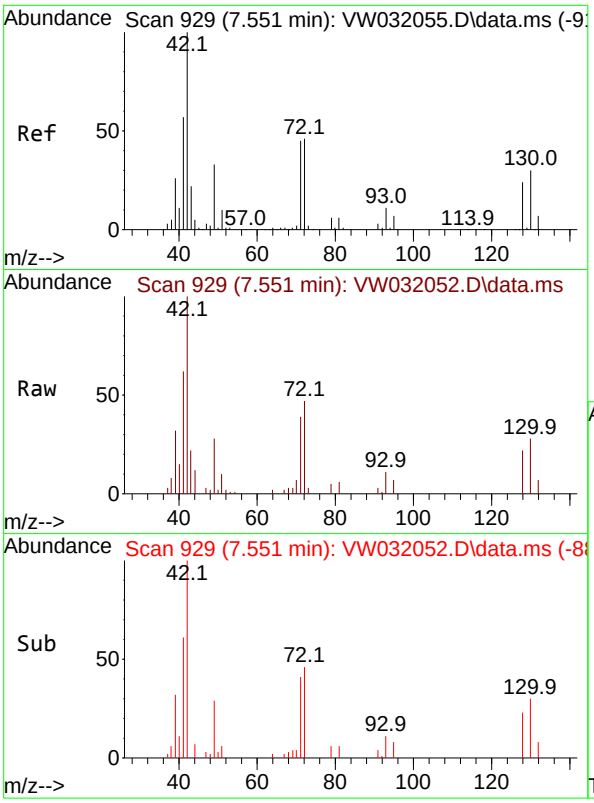



#28
Bromochloromethane
Concen: 5.188 ug/l
RT: 7.526 min Scan# 925
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 49 Resp: 12660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.2 | 0.0 | 4.2 |
| 130 | 75.4 | 61.9 | 92.9 |

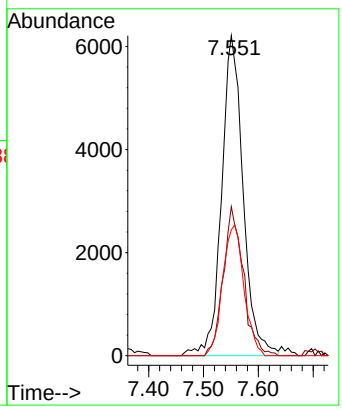





#29
Tetrahydrofuran
Concen: 23.963 ug/l
RT: 7.551 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 42 Resp: 1696

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 43.6 | 36.6 | 55.0 |
| 71 | 40.3 | 34.7 | 52.1 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

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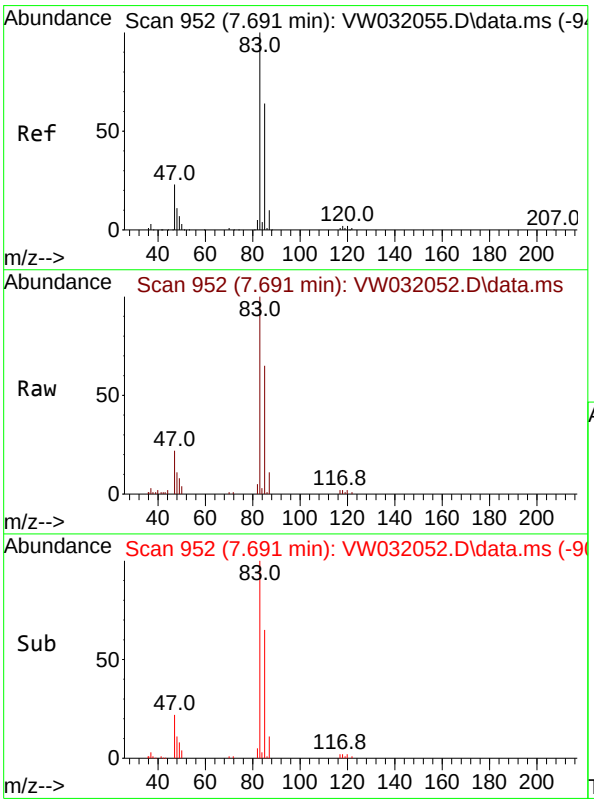
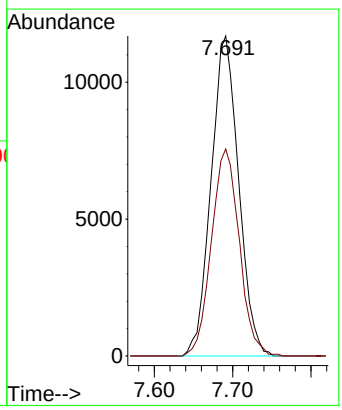
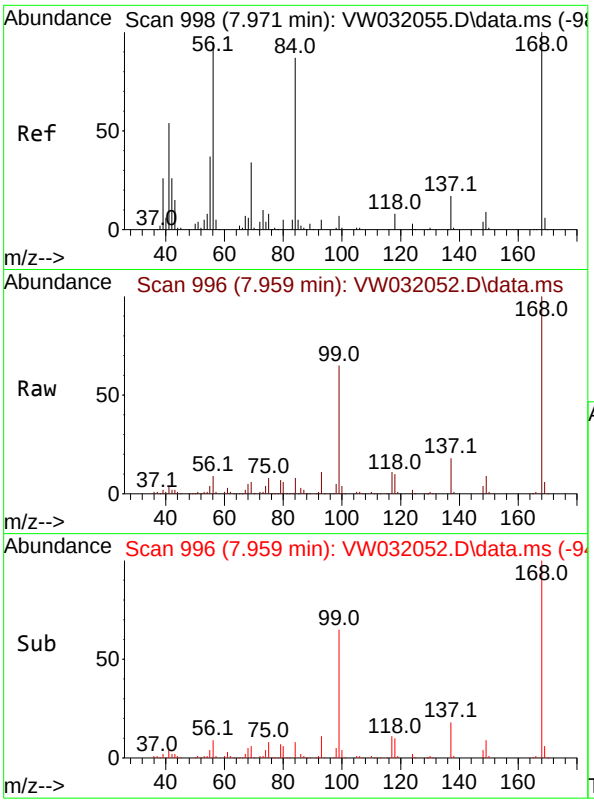



#30
Chloroform
Concen: 5.028 ug/l
RT: 7.691 min Scan# 952
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 83 Resp: 28586

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.7 | 51.0 | 76.4 |

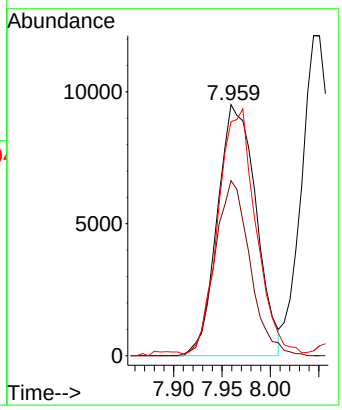





#31
Cyclohexane
Concen: 5.677 ug/l
RT: 7.959 min Scan# 9
Delta R.T. -0.012 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 56 Resp: 2639

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 69.7 | 28.6 | 42.8 |
| 84 | 91.7 | 73.0 | 109.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

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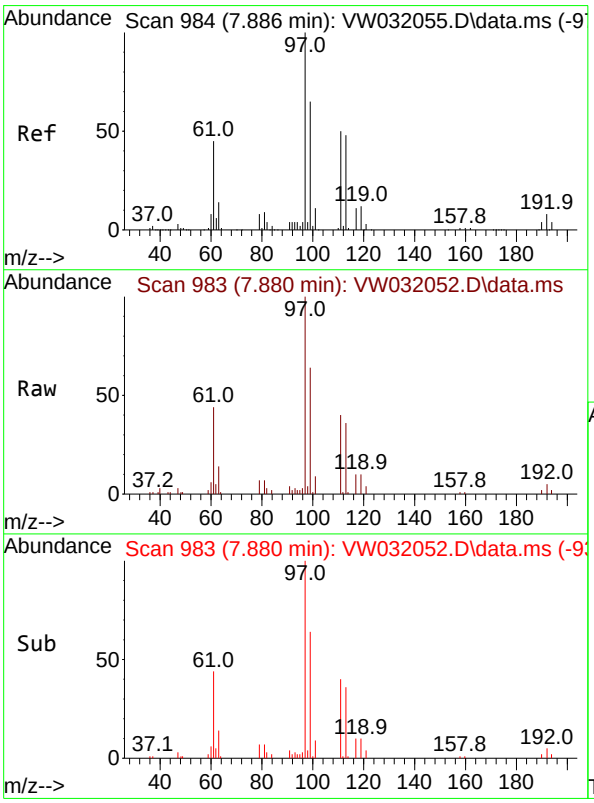
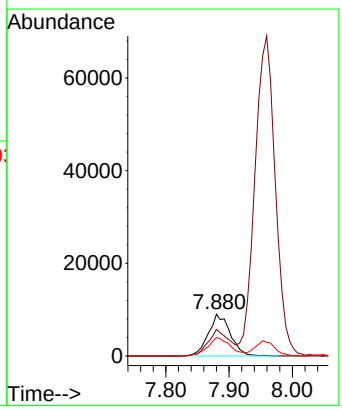
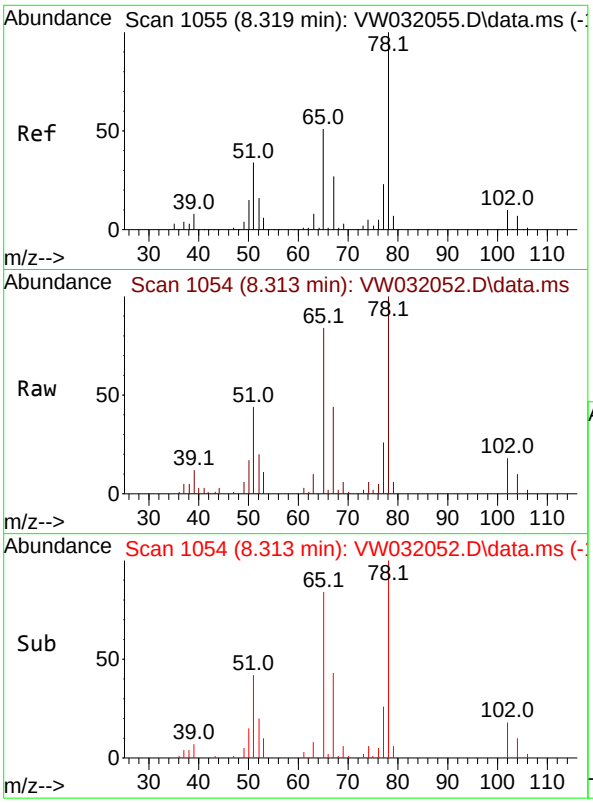



#32
1,1,1-Trichloroethane
Concen: 5.246 ug/l
RT: 7.880 min Scan# 983
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 97 Resp: 21662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 60.6 | 51.8 | 77.8 |
| 61 | 46.4 | 35.9 | 53.9 |

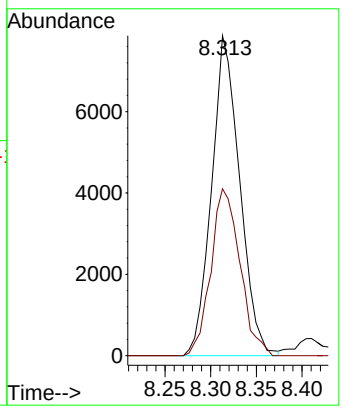





#33
1,2-Dichloroethane-d4
Concen: 5.158 ug/l
RT: 8.313 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 65 Resp: 1682

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 54.0 | 0.0 | 102.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

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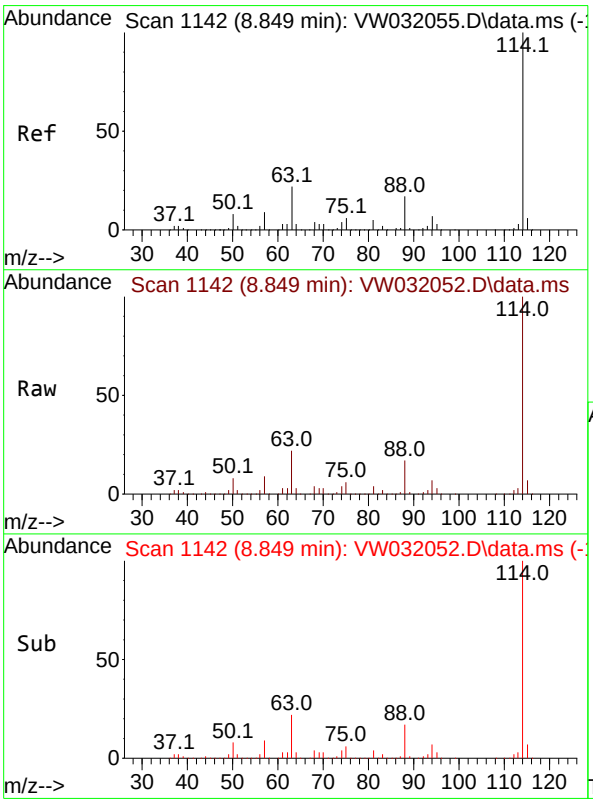
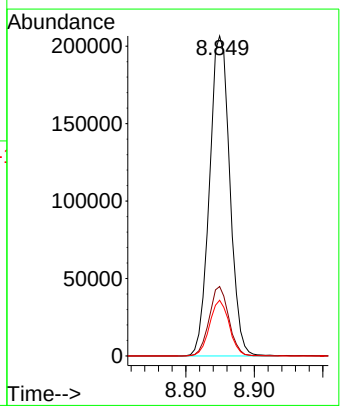
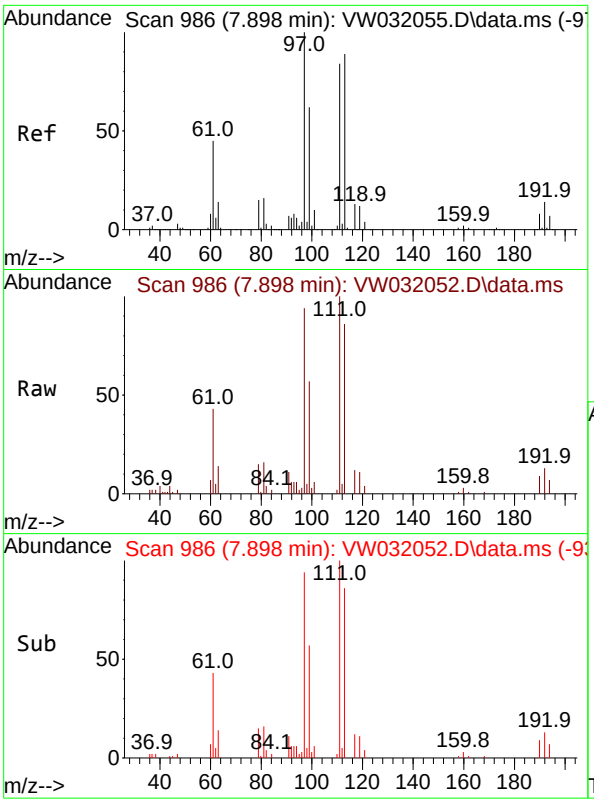



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:114 Resp: 424617

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.7 | 0.0 | 43.0 |
| 88 | 17.4 | 0.0 | 33.8 |

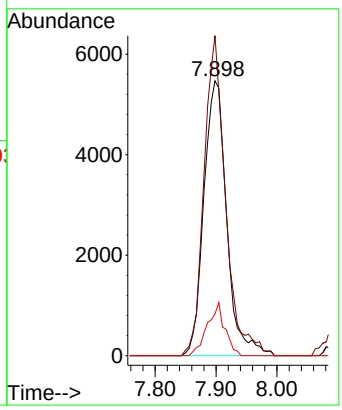





#35
Dibromofluoromethane
Concen: 5.205 ug/l
RT: 7.898 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:113 Resp: 1427

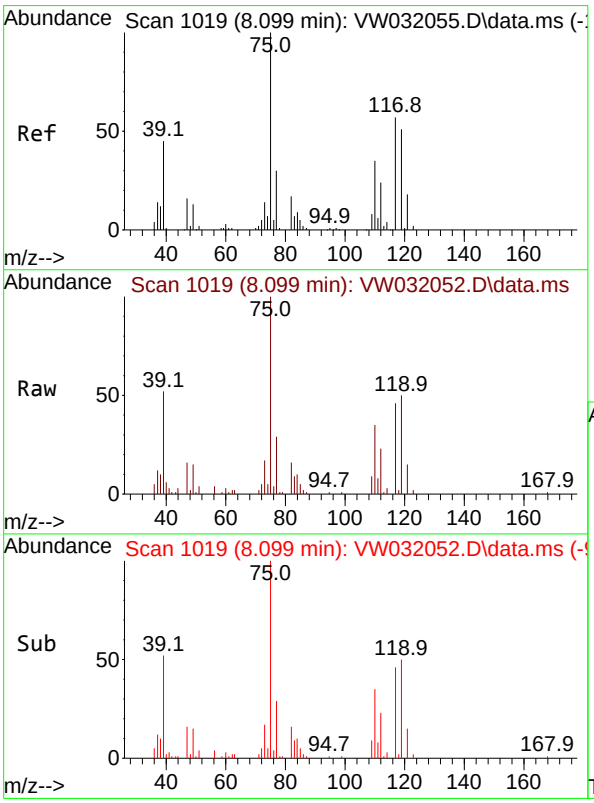
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 109.4 | 80.1 | 120.1 |
| 192 | 14.8 | 13.1 | 19.7 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

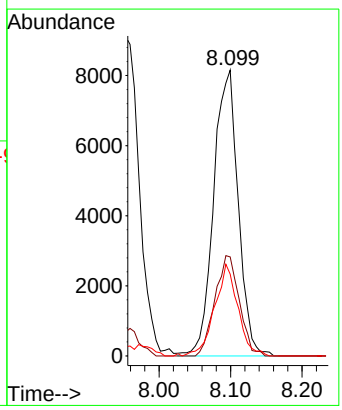
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

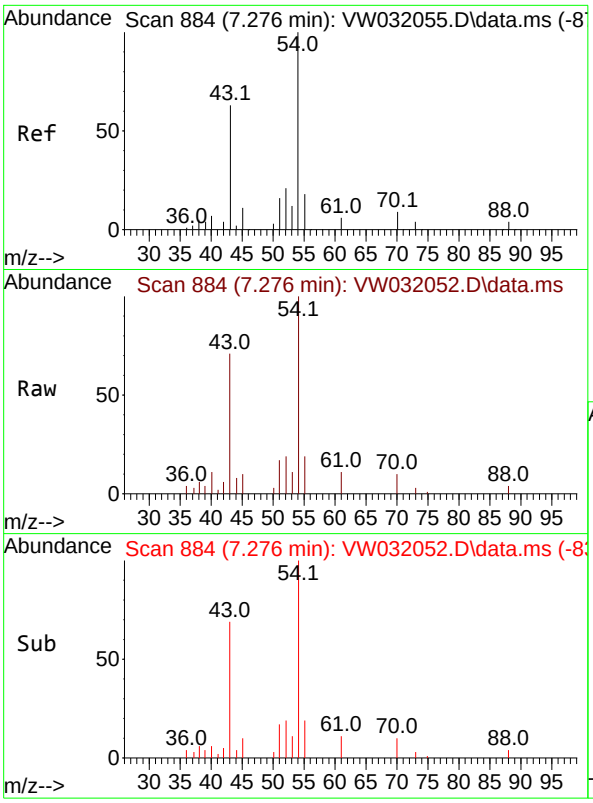



#36
1,1-Dichloropropene
Concen: 5.034 ug/l
RT: 8.099 min Scan# 1019
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 75 Resp: 19468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 34.7 | 17.4 | 52.2 |
| 77 | 30.4 | 24.7 | 37.1 |

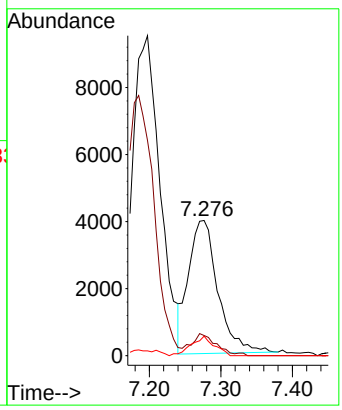





#37
Ethyl Acetate
Concen: 4.990 ug/l
RT: 7.276 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 43 Resp: 1136

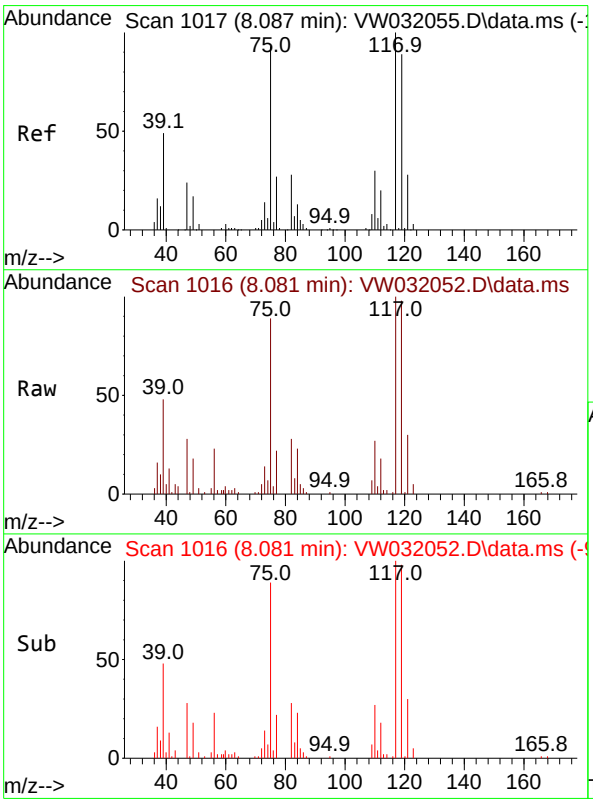
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.9 | 11.8 | 17.6 |
| 70 | 11.4 | 9.4 | 14.0 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

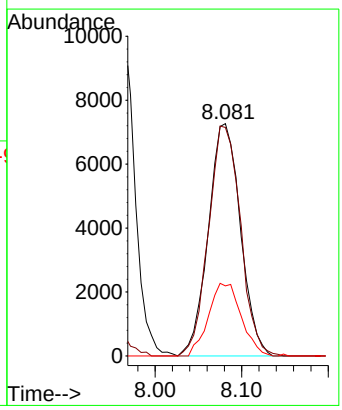
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

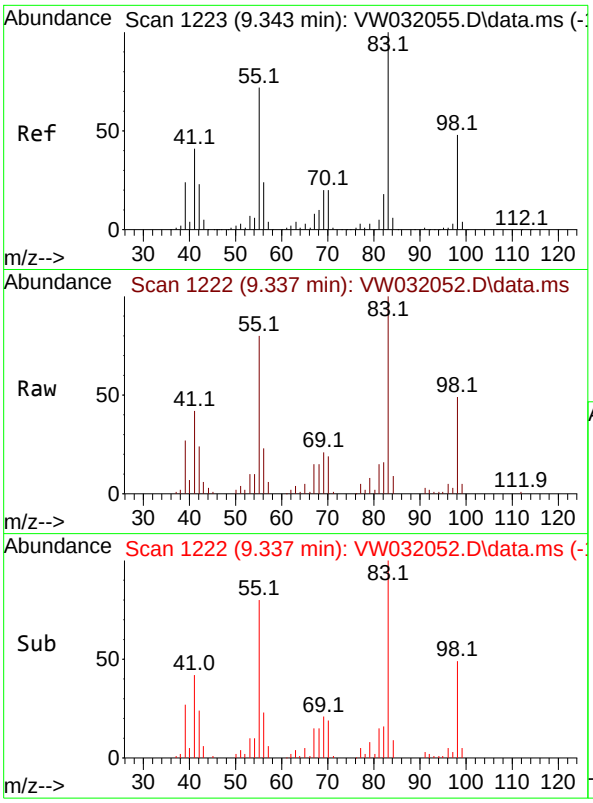



#38
Carbon Tetrachloride
Concen: 5.020 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:117 Resp: 18734

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 98.3 | 71.4 | 107.2 |
| 121 | 30.2 | 22.3 | 33.5 |

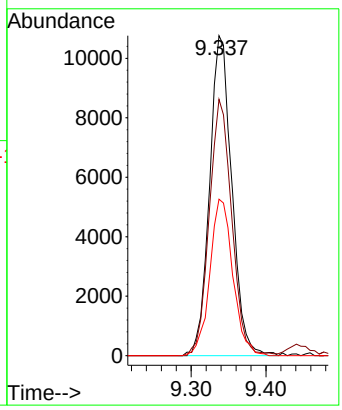





#39
Methylcyclohexane
Concen: 4.728 ug/l
RT: 9.337 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 83 Resp: 2228

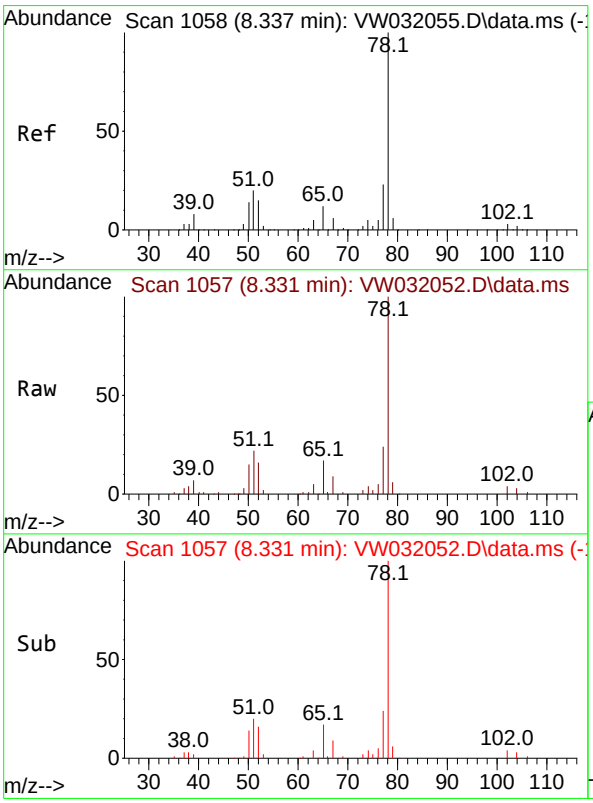
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 80.1 | 57.9 | 86.9 |
| 98 | 48.9 | 38.3 | 57.5 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

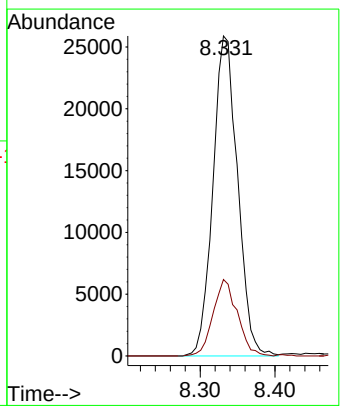
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

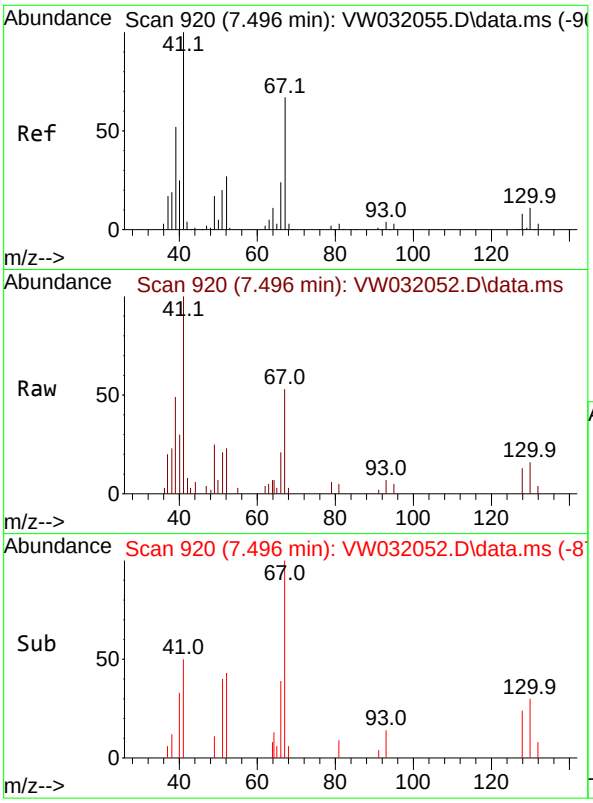



#40
Benzene
Concen: 4.941 ug/l
RT: 8.331 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 78 Resp: 59395

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.9 | 18.4 | 27.6 |

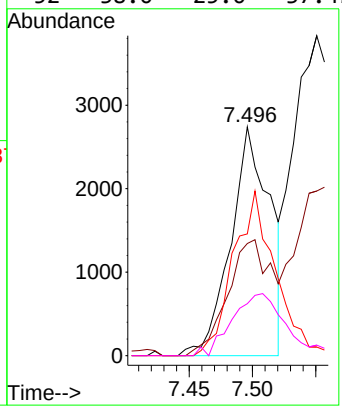





#41
Methacrylonitrile
Concen: 4.576 ug/l
RT: 7.496 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 41 Resp: 591

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 57.0 | 42.6 | 63.8 |
| 67 | 78.0 | 61.0 | 91.4 |
| 52 | 38.0 | 25.0 | 37.4# |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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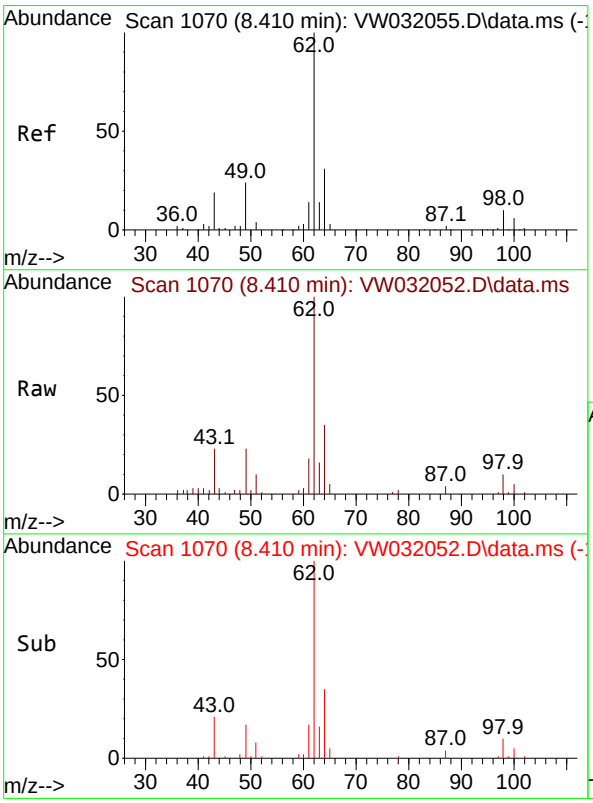
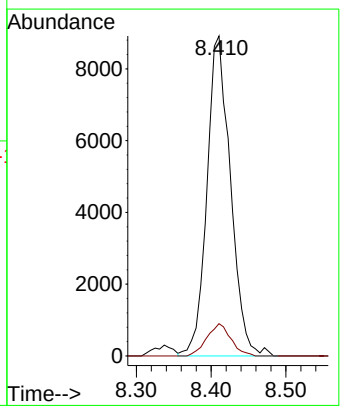
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

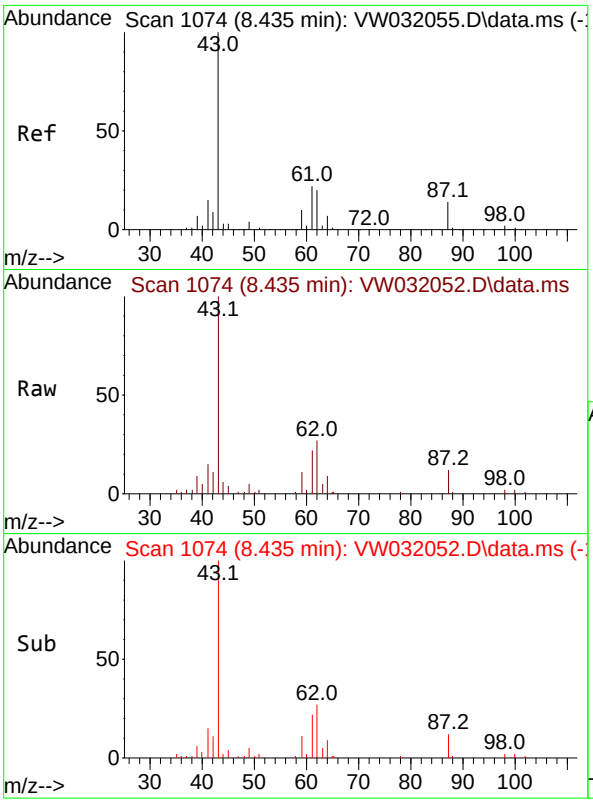



#42
1,2-Dichloroethane
Concen: 5.085 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 62 Resp: 19560

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.2 | 0.0 | 19.8 |

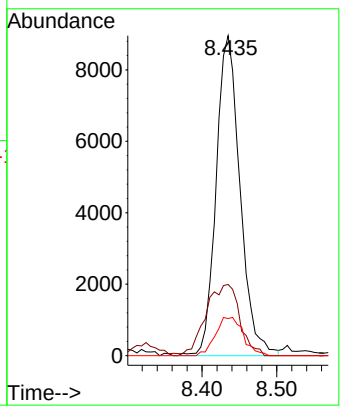





#43
Isopropyl Acetate
Concen: 4.756 ug/l
RT: 8.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 43 Resp: 1992

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 31.3 | 23.8 | 35.8 |
| 87 | 13.9 | 11.7 | 17.5 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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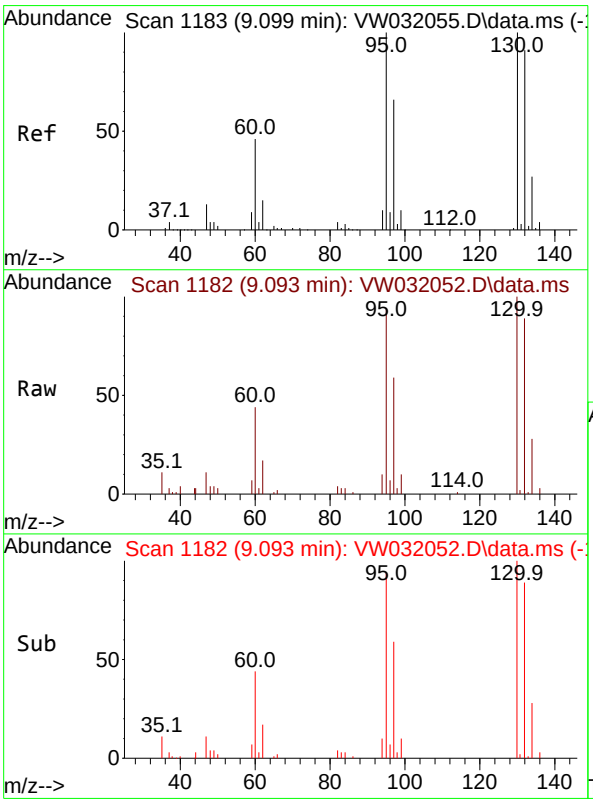
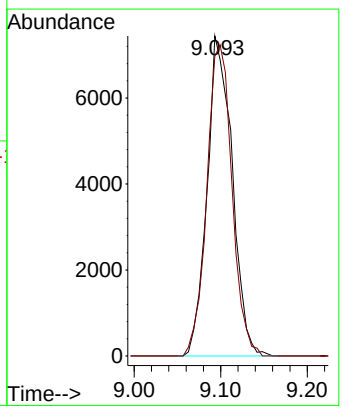
Supervised By :Semsettin Yesilyurt 08/12/2025

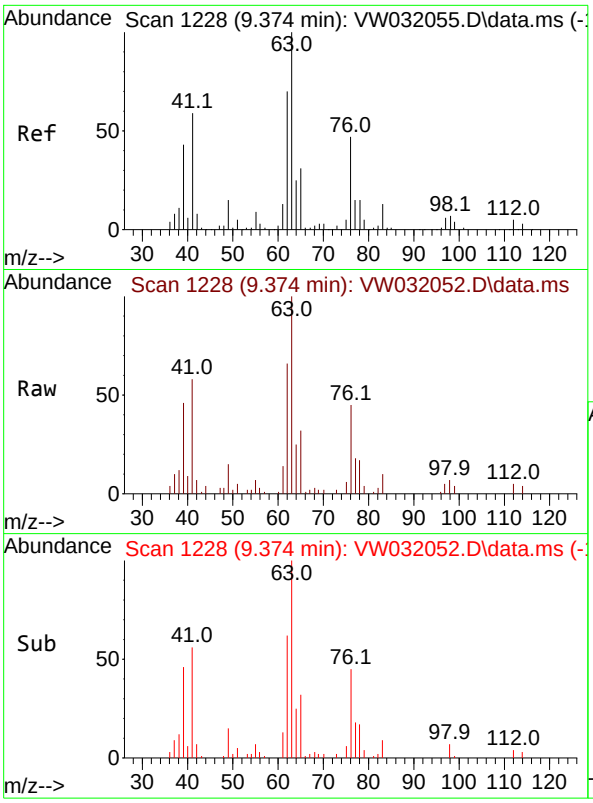



#44
Trichloroethene
Concen: 5.240 ug/l
RT: 9.093 min Scan# 1182
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:130 Resp: 14999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 93.7 | 0.0 | 200.6 |

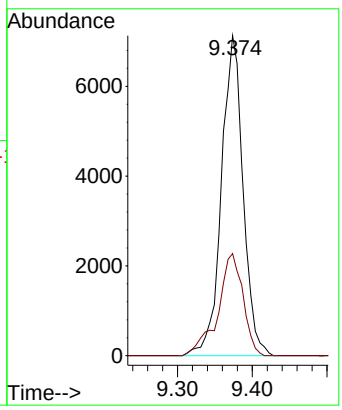





#45
1,2-Dichloropropane
Concen: 4.954 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 63 Resp: 1438

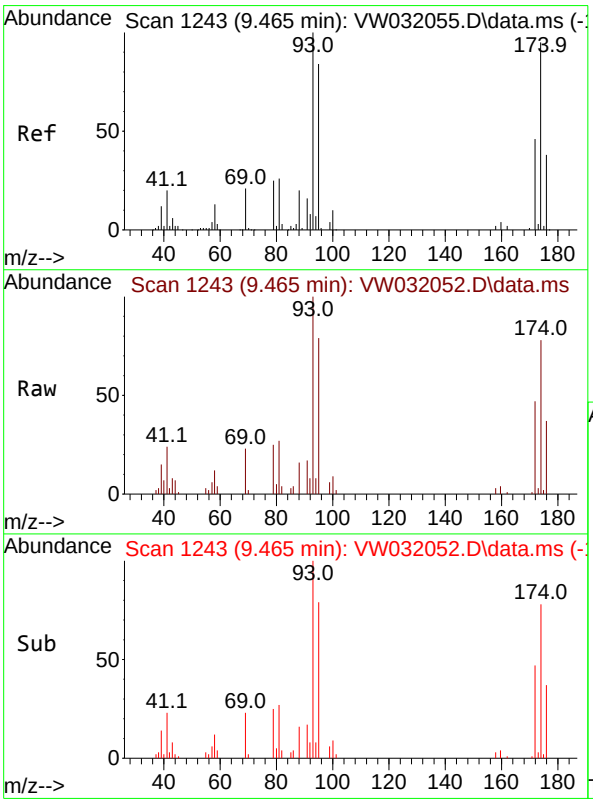
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.9 | 24.6 | 36.8 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

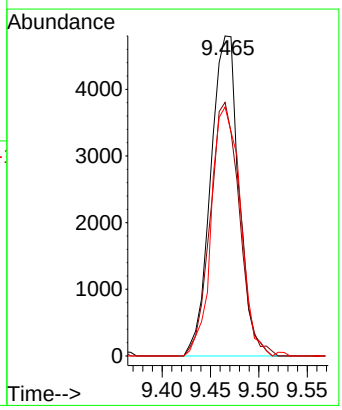
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

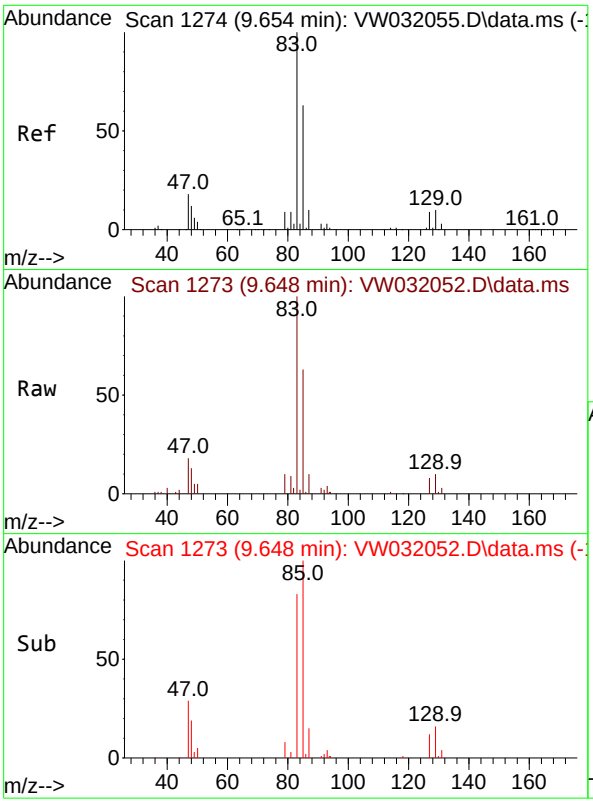



#46
Dibromomethane
Concen: 5.204 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 93 Resp: 9753

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.0 | 65.3 | 97.9 |
| 174 | 80.1 | 68.6 | 102.8 |

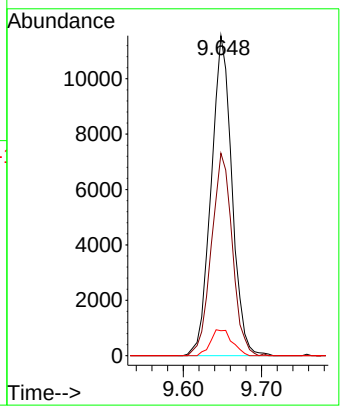





#47
Bromodichloromethane
Concen: 4.927 ug/l
RT: 9.648 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 83 Resp: 2127

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.3 | 50.6 | 75.8 |
| 127 | 7.8 | 6.9 | 10.3 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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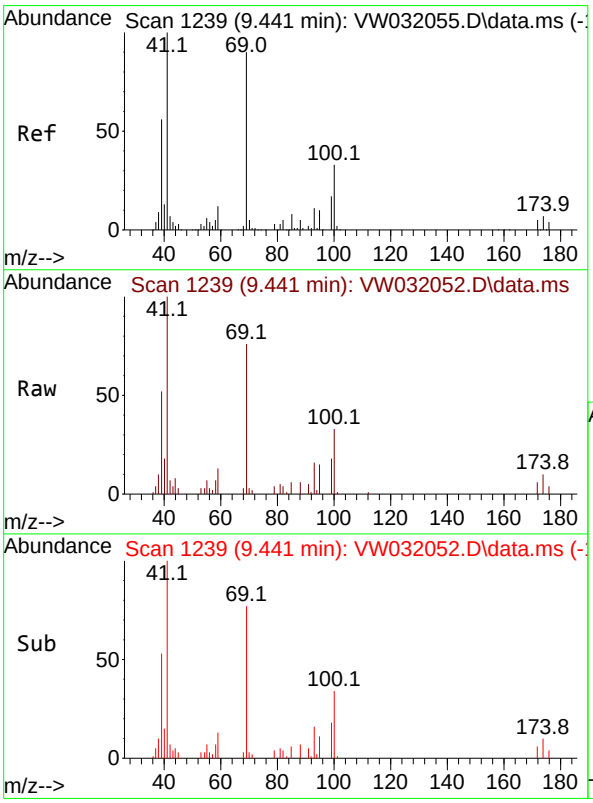
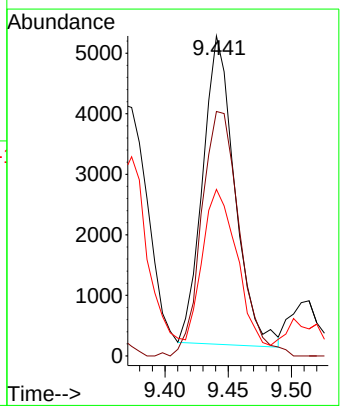
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

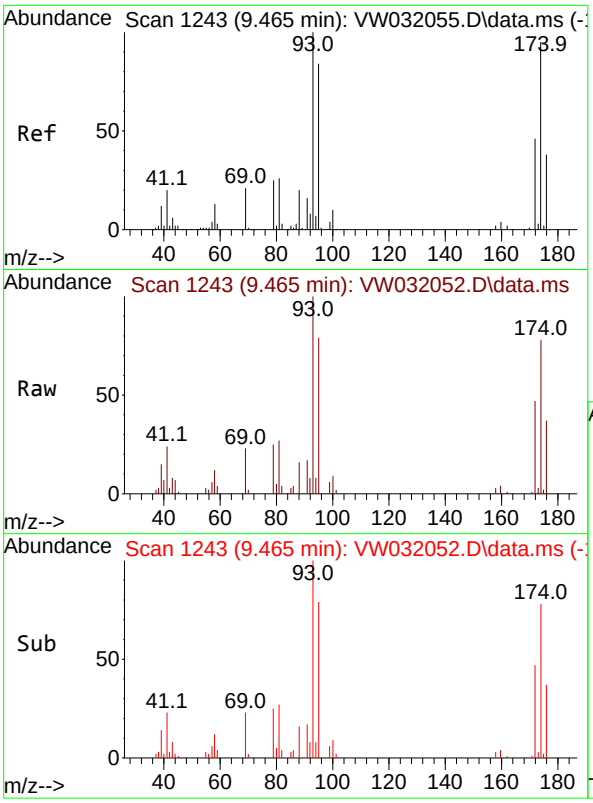



#48
Methyl methacrylate
Concen: 4.424 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 41 Resp: 8949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 93.4 | 73.0 | 109.6 |
| 39 | 53.4 | 45.0 | 67.4 |






#49
1,4-Dioxane
Concen: 93.217 ug/l
RT: 9.465 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 88 Resp: 225

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 35.9 | 20.6 | 30.8 |
| 58 | 87.2 | 60.4 | 90.6 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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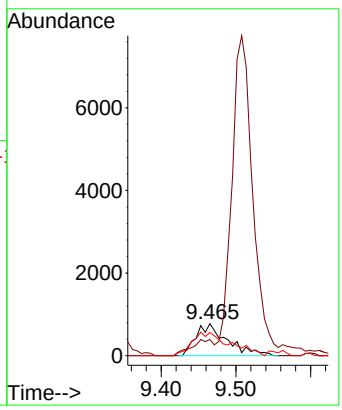
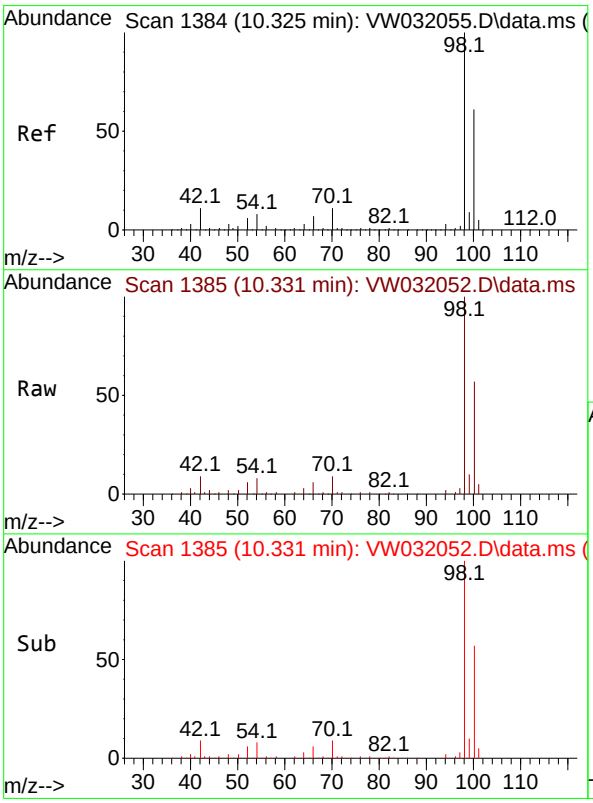
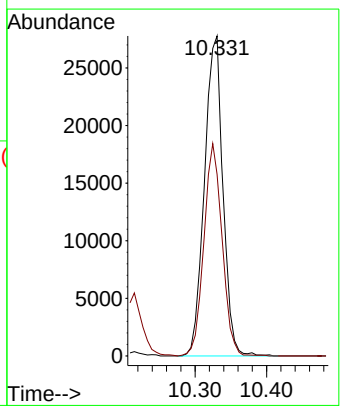


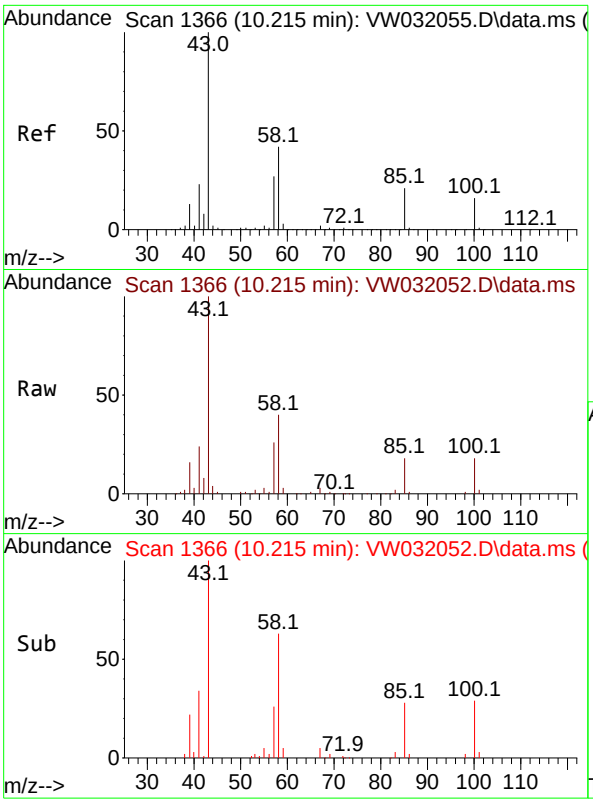




#50
Toluene-d8
Concen: 4.916 ug/l
RT: 10.331 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 98 Resp: 49876

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.4 | 51.1 | 76.7 |

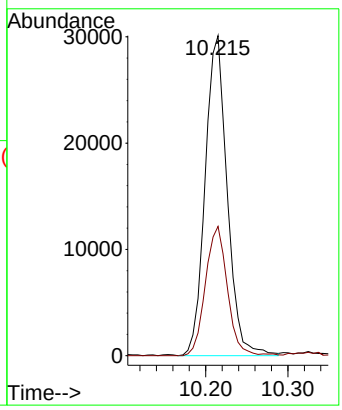





#51
4-Methyl-2-Pentanone
Concen: 23.755 ug/l
RT: 10.215 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 43 Resp: 5618

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 40.2 | 33.1 | 49.7 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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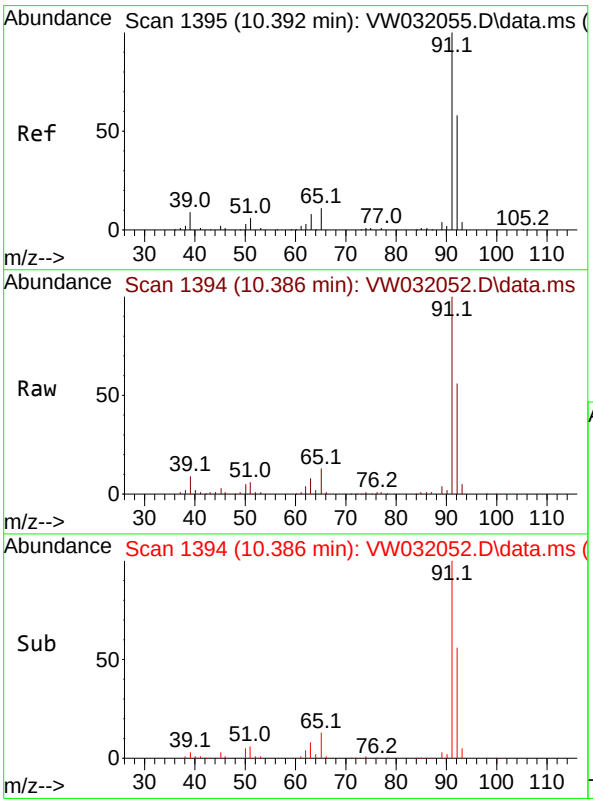
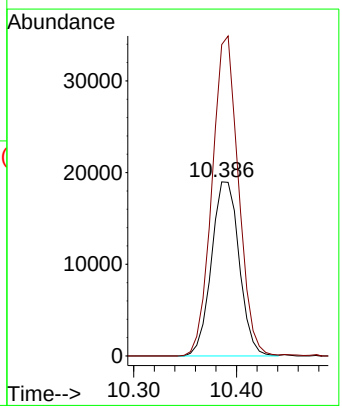
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

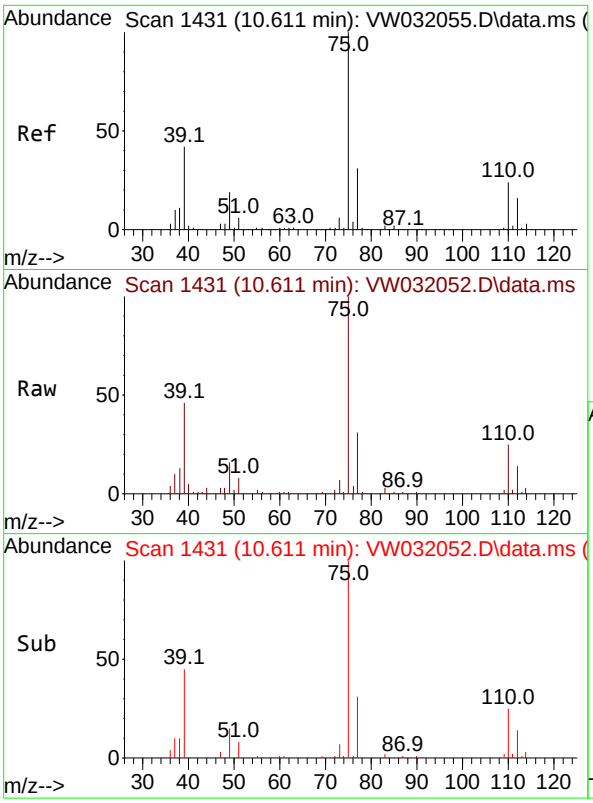



#52
Toluene
Concen: 4.692 ug/l
RT: 10.386 min Scan# 1394
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 92 Resp: 35525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 175.5 | 136.3 | 204.5 |

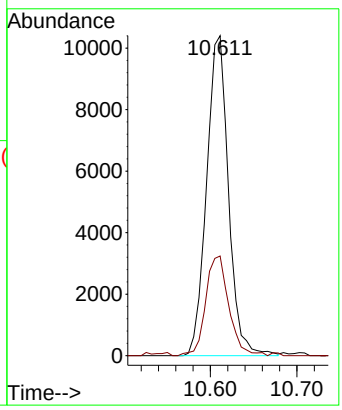





#53
t-1,3-Dichloropropene
Concen: 4.513 ug/l
RT: 10.611 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 75 Resp: 1825

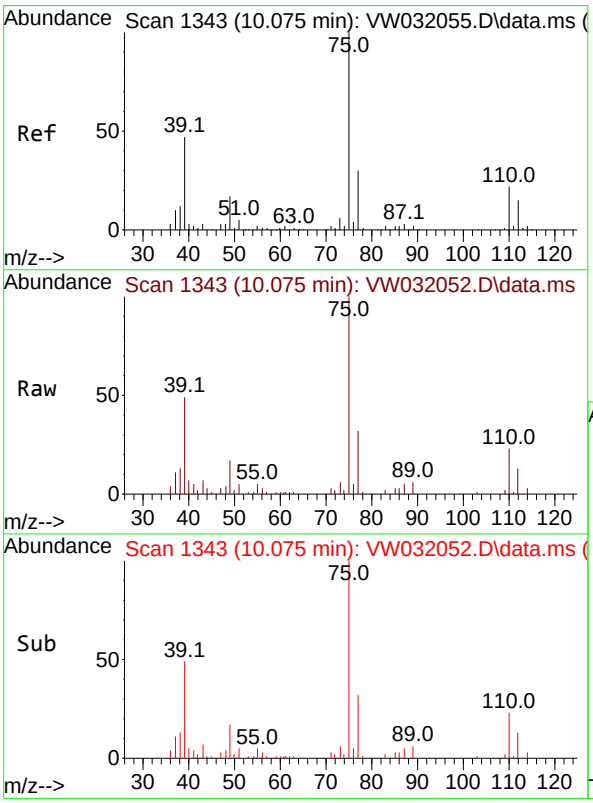
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.2 | 25.0 | 37.6 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

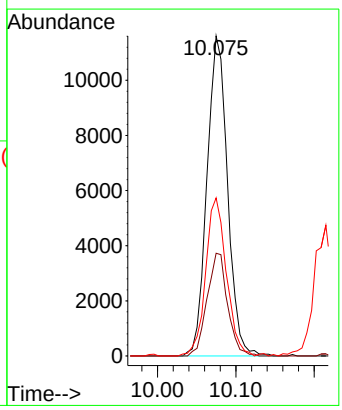
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

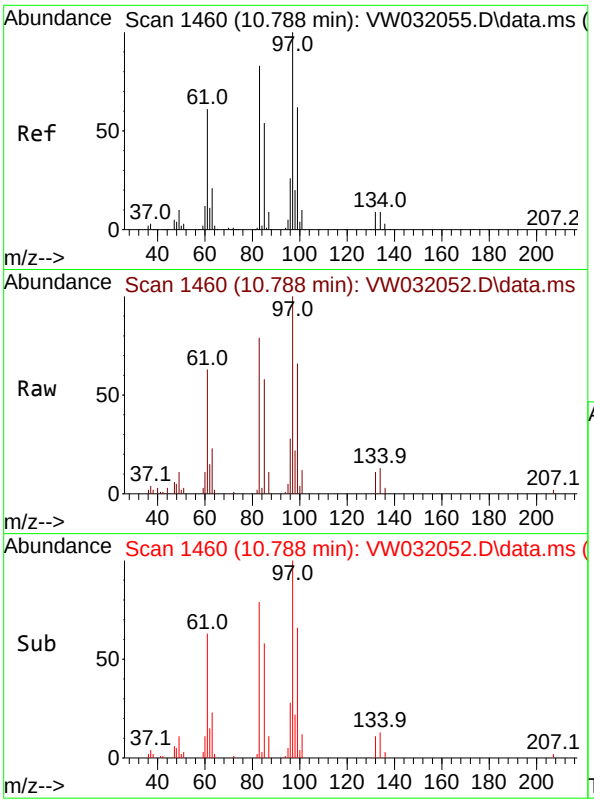



#54
cis-1,3-Dichloropropene
Concen: 4.612 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 75 Resp: 21173

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.1 | 24.0 | 36.0 |
| 39 | 49.4 | 37.8 | 56.8 |

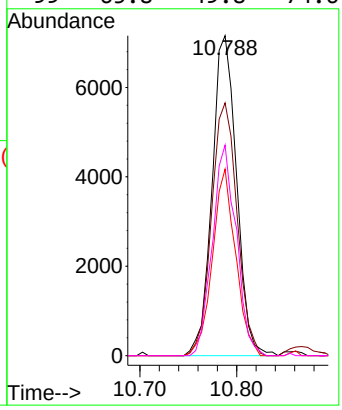





#55
1,1,2-Trichloroethane
Concen: 5.057 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 97 Resp: 1259

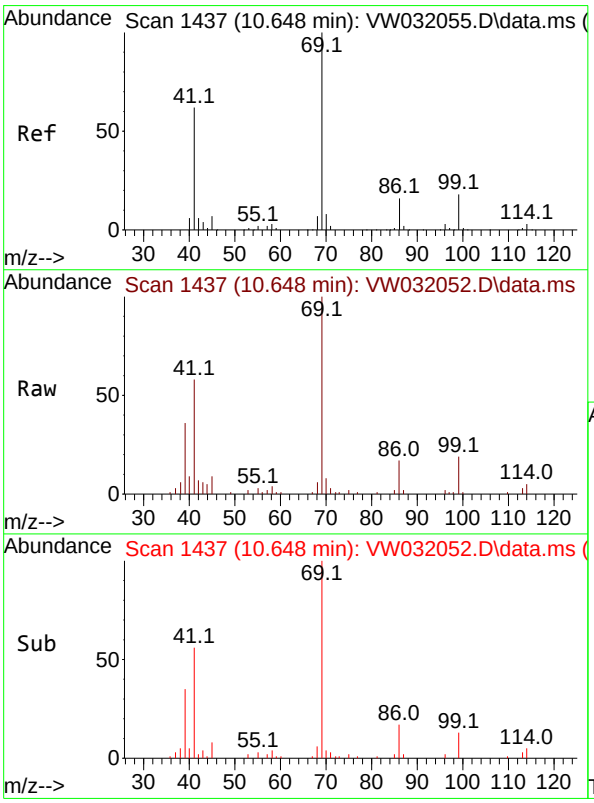
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 79.0 | 66.4 | 99.6 |
| 85 | 58.3 | 43.1 | 64.7 |
| 99 | 65.8 | 49.8 | 74.6 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

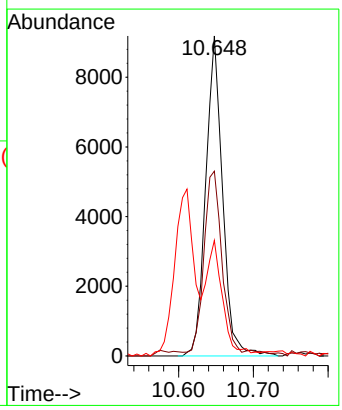
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

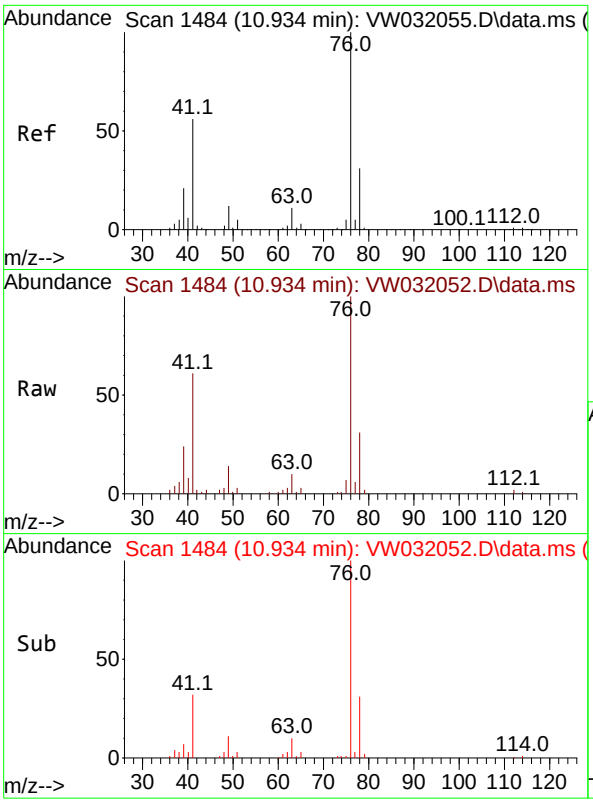



#56
Ethyl methacrylate
Concen: 4.317 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 69 Resp: 14387

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 59.2 | 51.2 | 76.8 |
| 39 | 32.8 | 25.4 | 38.0 |

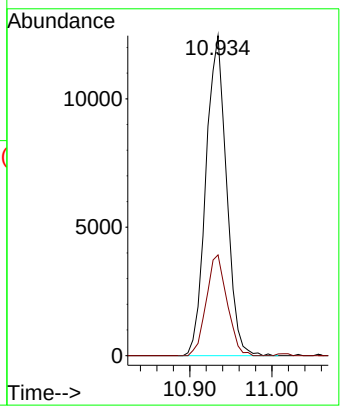





#57
1,3-Dichloropropane
Concen: 4.988 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 76 Resp: 2165

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 31.8 | 25.8 | 38.6 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
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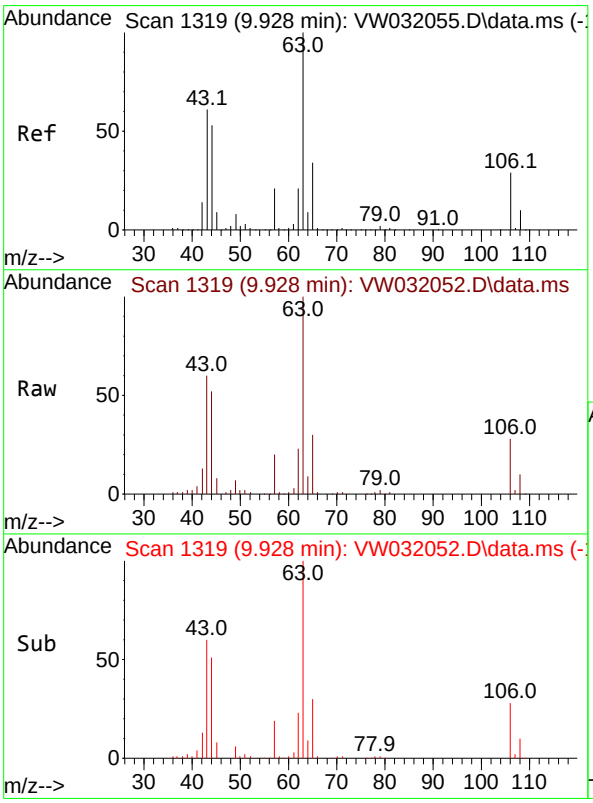
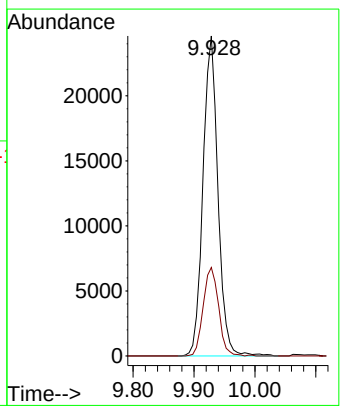
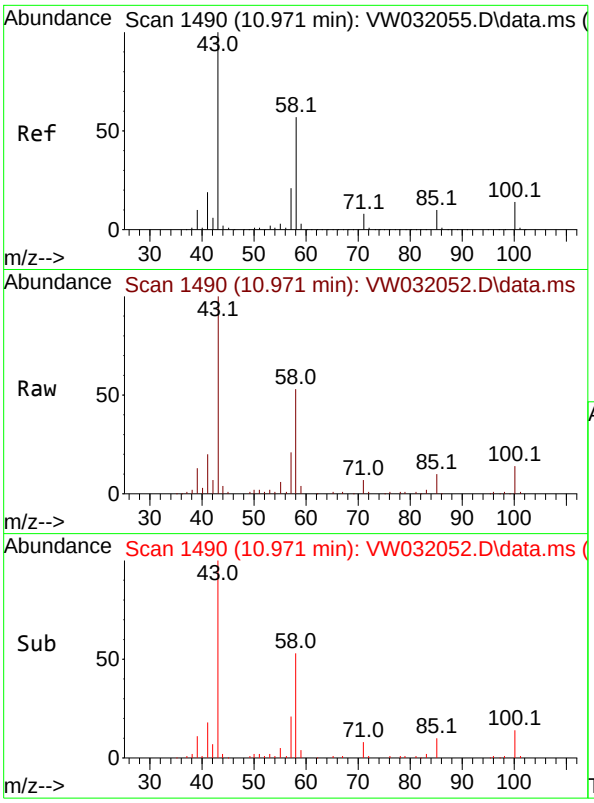



#58
2-Chloroethyl Vinyl ether
Concen: 22.777 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 63 Resp: 41991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 28.4 | 23.5 | 35.3 |






#59
2-Hexanone
Concen: 23.074 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 43 Resp: 3779

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 53.3 | 28.3 | 85.0 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

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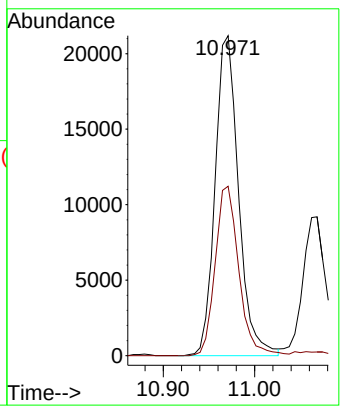
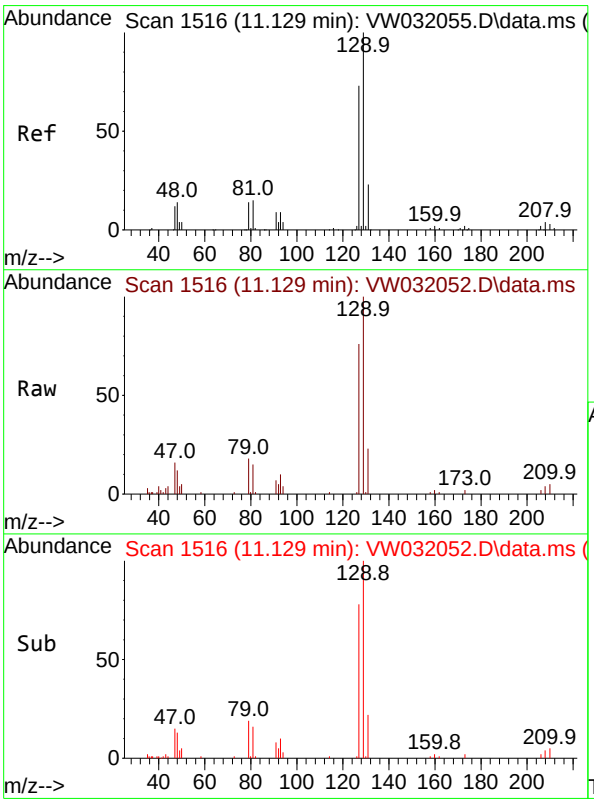
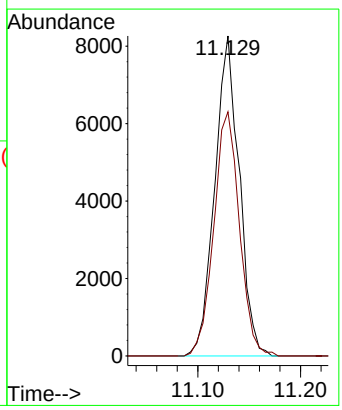


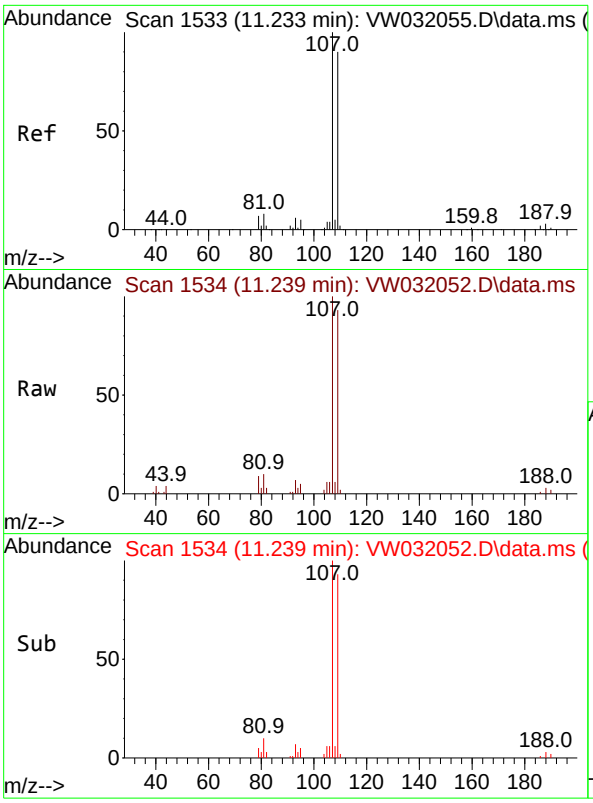




#60
Dibromochloromethane
Concen: 4.799 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:129 Resp: 13654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 79.8 | 39.0 | 116.9 |






#61
1,2-Dibromoethane
Concen: 4.955 ug/l
RT: 11.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:107 Resp: 1199

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 92.8 | 74.2 | 111.4 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

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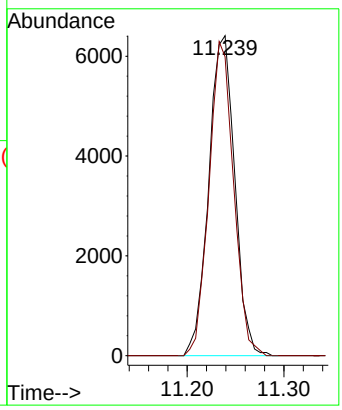
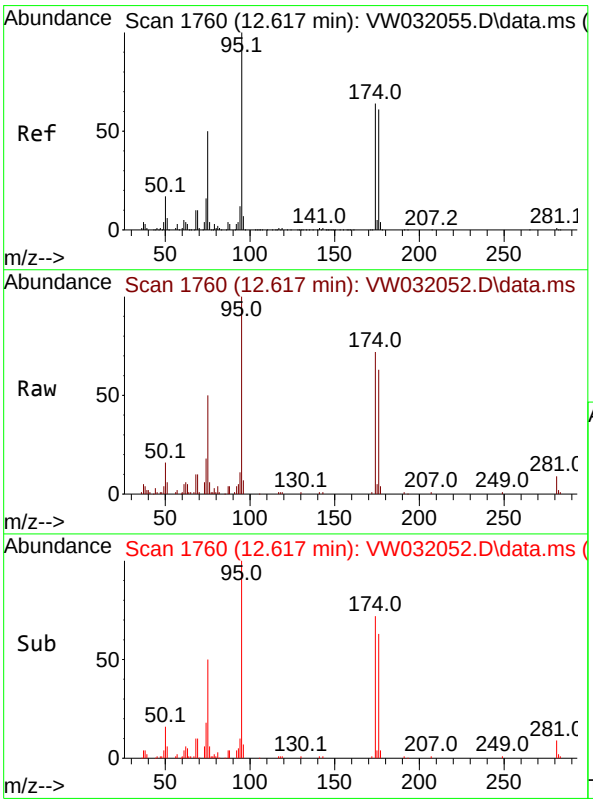
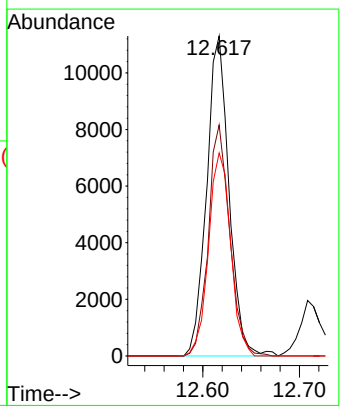


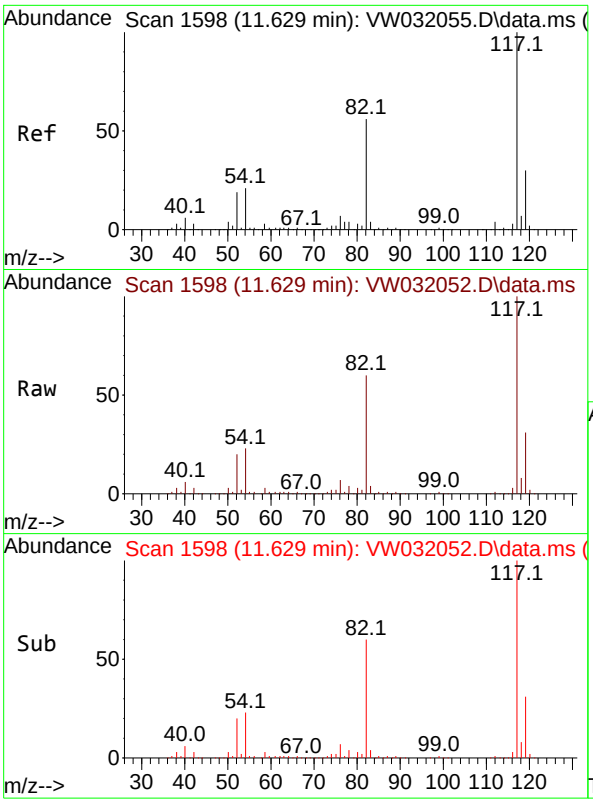




#62
4-Bromofluorobenzene
Concen: 4.863 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 95 Resp: 18184

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 69.1 | 0.0 | 129.0 |
| 176 | 62.7 | 0.0 | 124.6 |

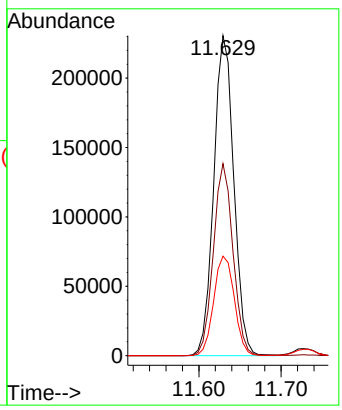





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:117 Resp: 39123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 60.0 | 45.0 | 67.4 |
| 119 | 31.1 | 24.2 | 36.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

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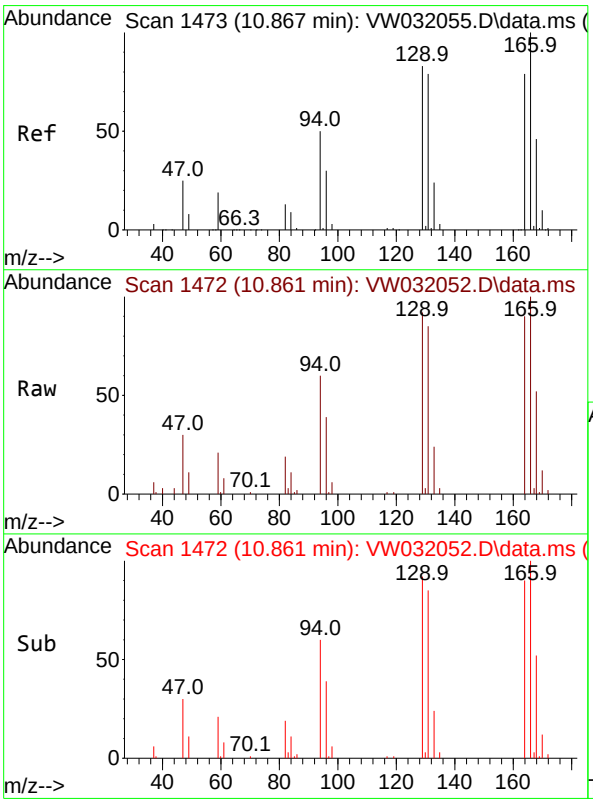
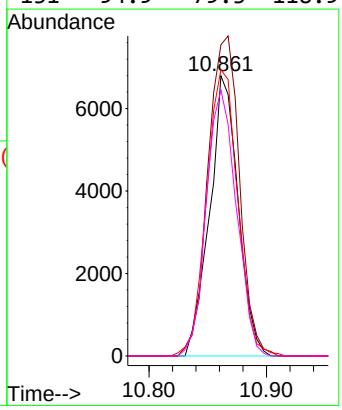
Supervised By :Semsettin Yesilyurt 08/12/2025

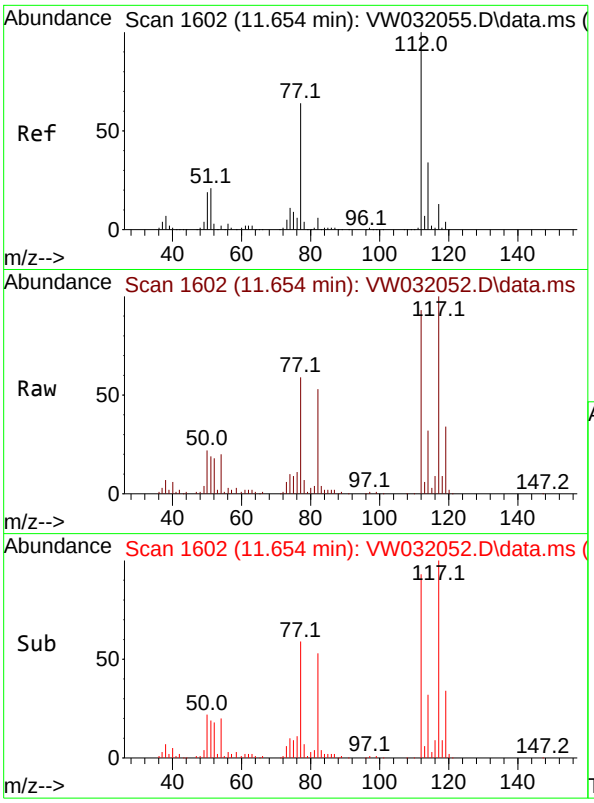



#64
Tetrachloroethene
Concen: 5.066 ug/l
RT: 10.861 min Scan# 1472
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:164 Resp: 11449

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 111.1 | 100.9 | 151.3 |
| 129 | 101.3 | 83.6 | 125.4 |
| 131 | 94.9 | 79.3 | 118.9 |

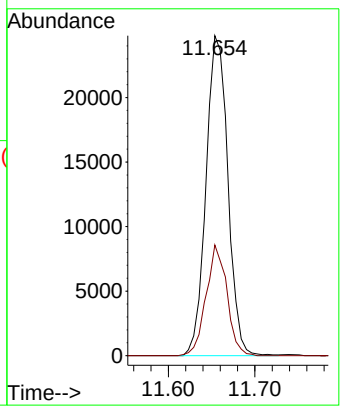





#65
Chlorobenzene
Concen: 5.110 ug/l
RT: 11.654 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:112 Resp: 4351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 34.6 | 26.9 | 40.3 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

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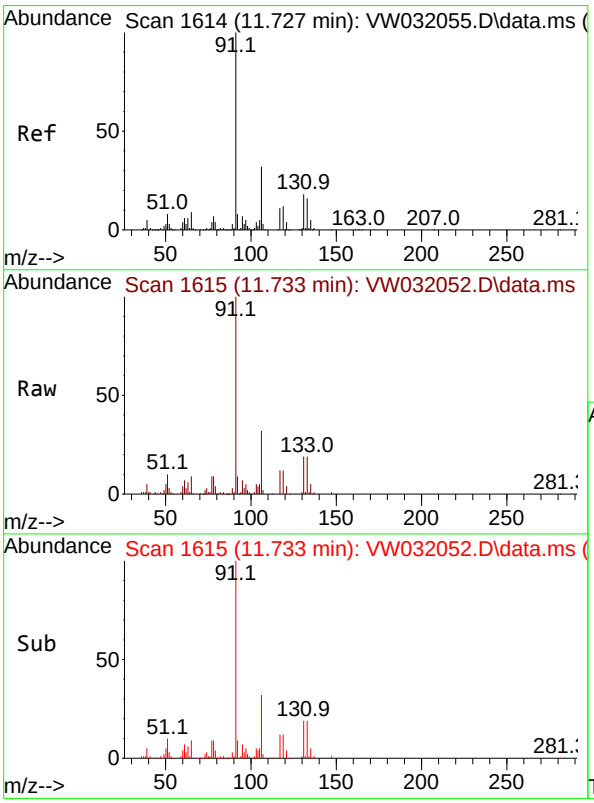
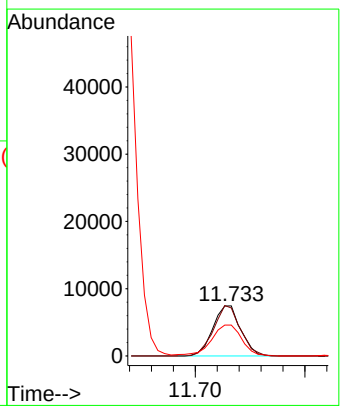
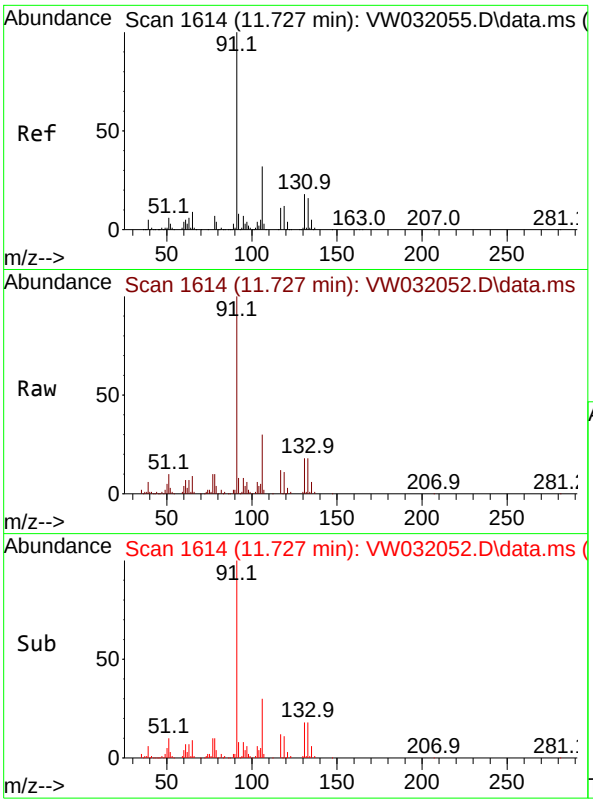



#66
1,1,1,2-Tetrachloroethane
Concen: 4.907 ug/l
RT: 11.733 min Scan# 1615
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:131 Resp: 13037

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 97.4 | 47.3 | 142.0 |
| 119 | 67.3 | 34.5 | 103.5 |






#67
Ethyl Benzene
Concen: 4.650 ug/l
RT: 11.727 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 91 Resp: 6707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.2 | 25.4 | 38.0 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

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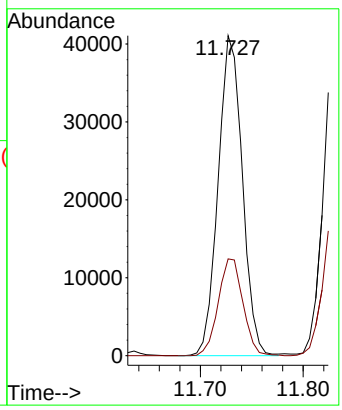
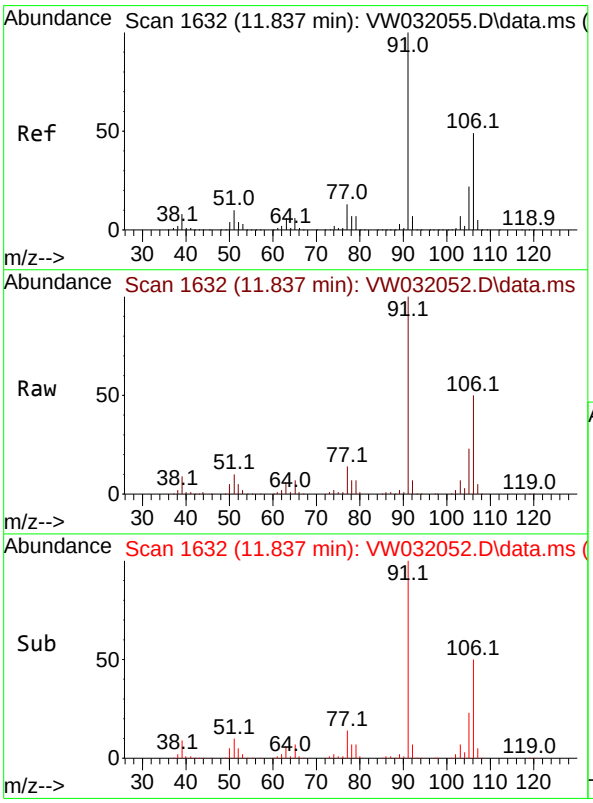
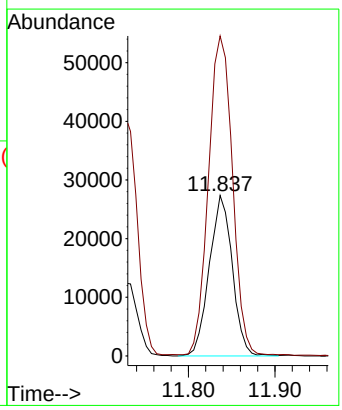


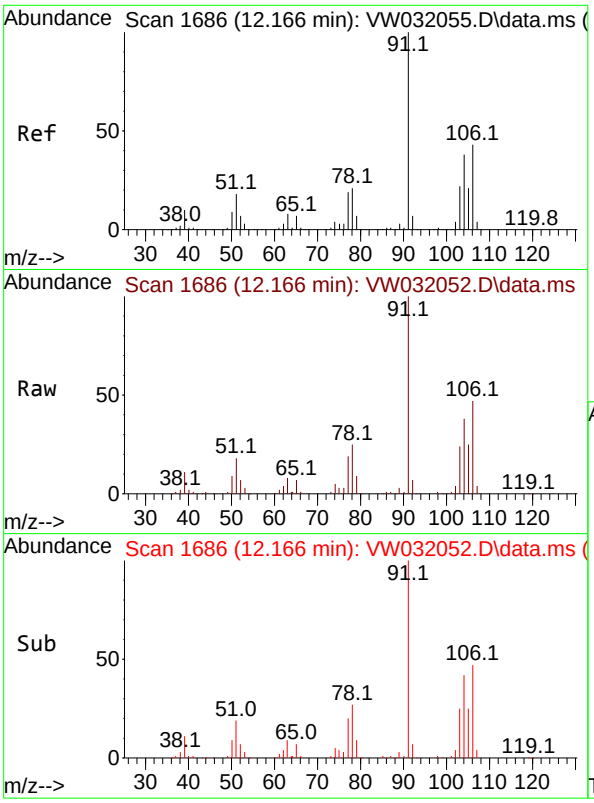




#68
m/p-Xylenes
Concen: 9.070 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:106 Resp: 50482

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 209.1 | 162.2 | 243.2 |

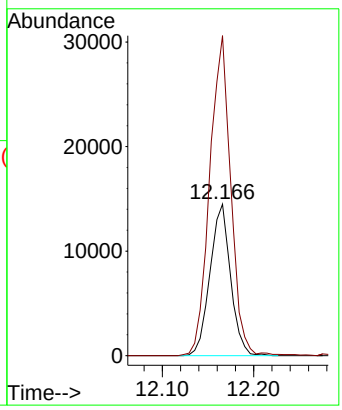





#69
o-Xylene
Concen: 4.393 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:106 Resp: 2260

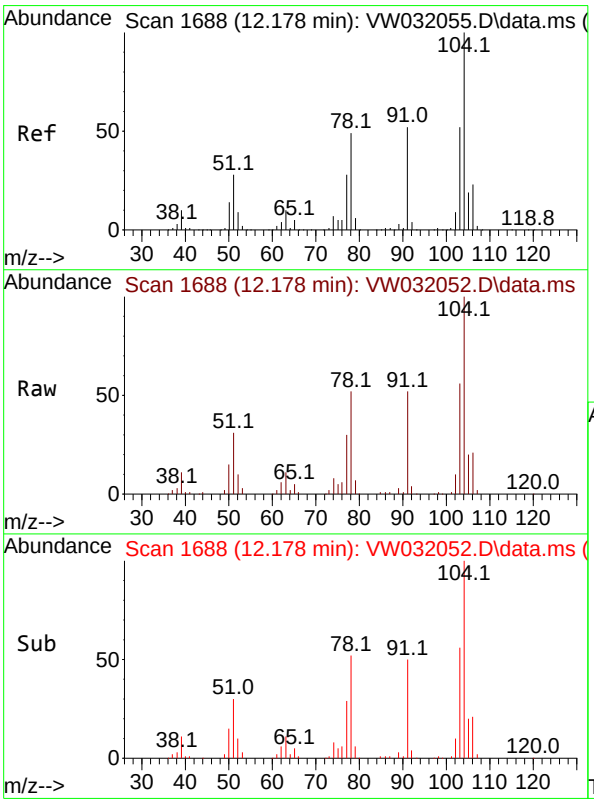
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 217.4 | 110.8 | 332.3 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

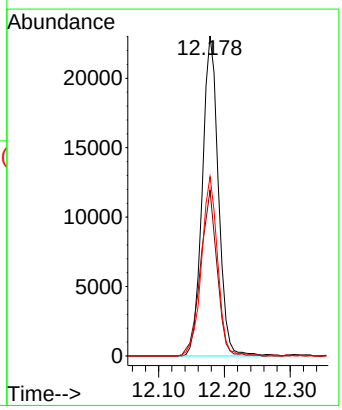
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

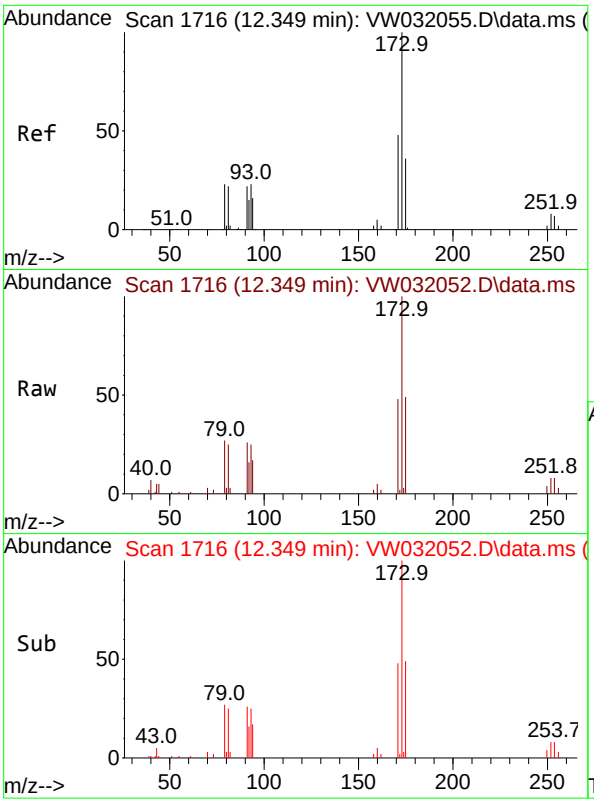



#70
Styrene
Concen: 4.300 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:104 Resp: 39288

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 53.3 | 41.2 | 61.8 |
| 103 | 56.1 | 43.8 | 65.8 |

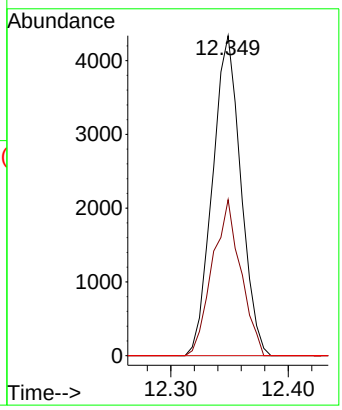





#71
Bromoform
Concen: 4.792 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:173 Resp: 728

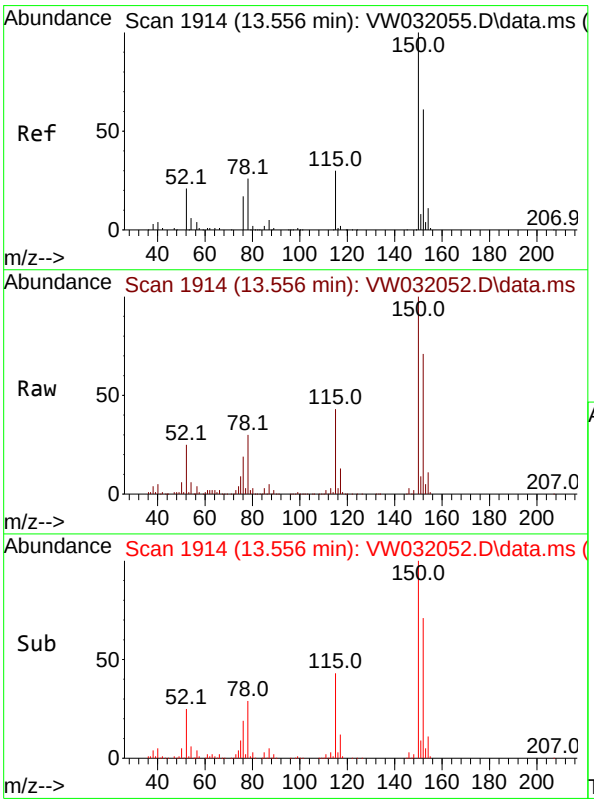
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.9 | 22.9 | 68.7 |
| 254 | 0.0 | 0.0 | 0.0 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

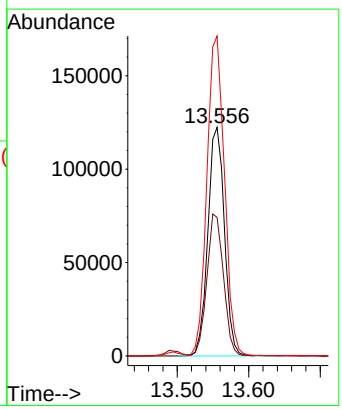
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

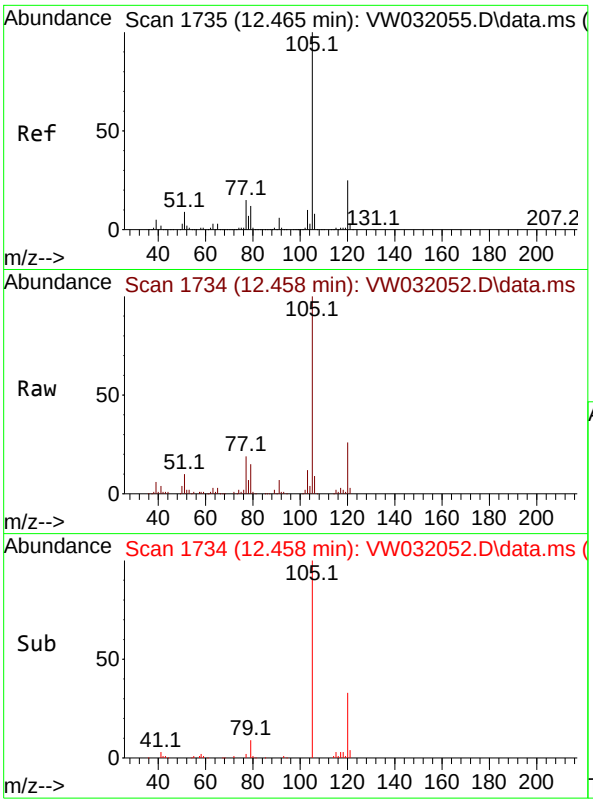



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:152 Resp: 196943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 62.0 | 32.6 | 97.8 |
| 150 | 147.8 | 0.0 | 359.4 |

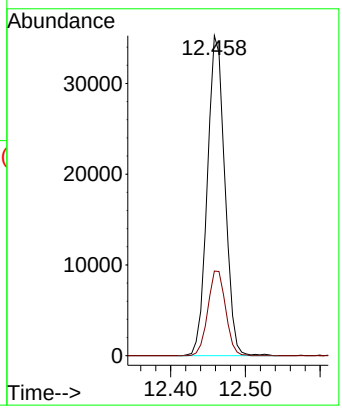





#73
Isopropylbenzene
Concen: 4.164 ug/l
RT: 12.458 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:105 Resp: 5730

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.8 | 12.8 | 38.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

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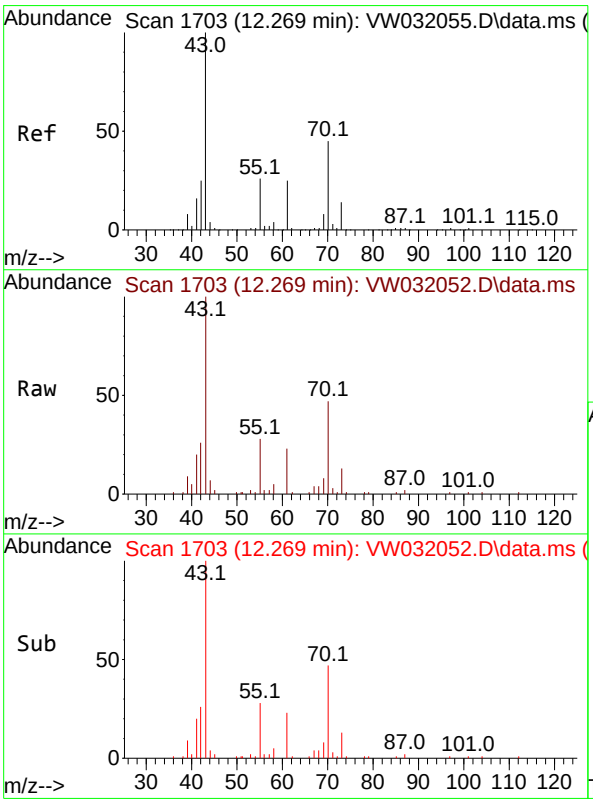
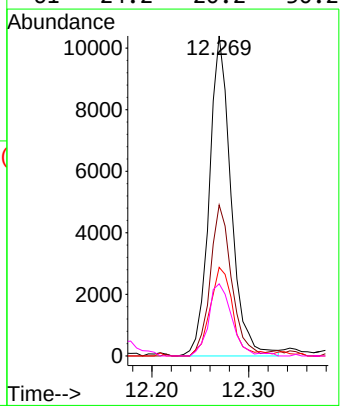
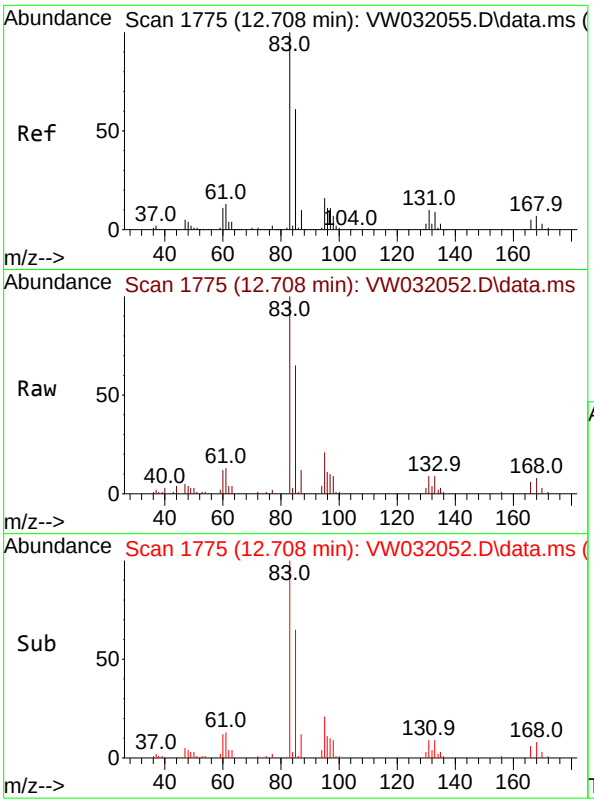



#74
N-amyl acetate
Concen: 4.135 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 43 Resp: 16327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 45.9 | 37.0 | 55.4 |
| 55 | 28.8 | 21.1 | 31.7 |
| 61 | 24.2 | 20.2 | 30.2 |

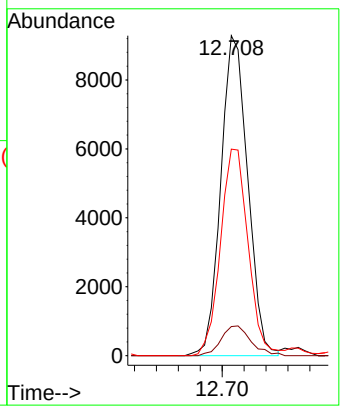





#75
1,1,2,2-Tetrachloroethane
Concen: 4.836 ug/l
RT: 12.708 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 83 Resp: 1580

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.3 | 5.1 | 15.4 |
| 85 | 66.7 | 32.2 | 96.6 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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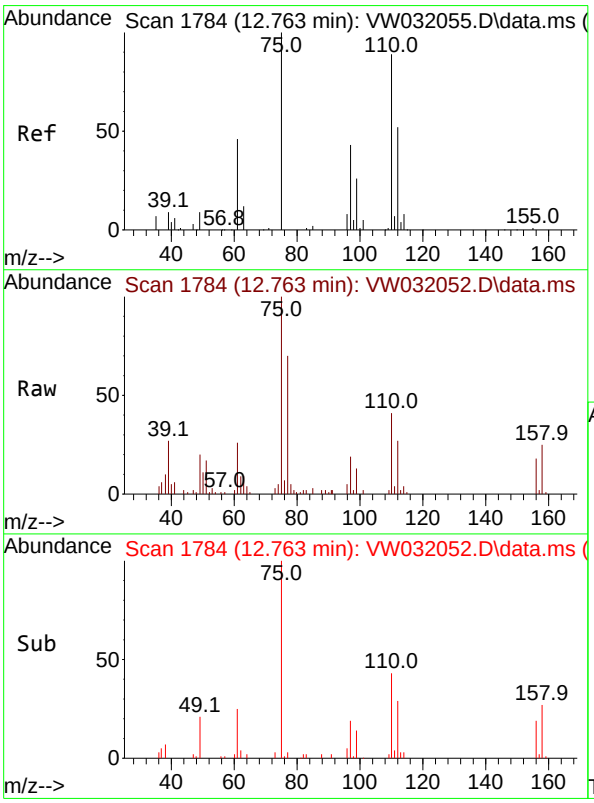
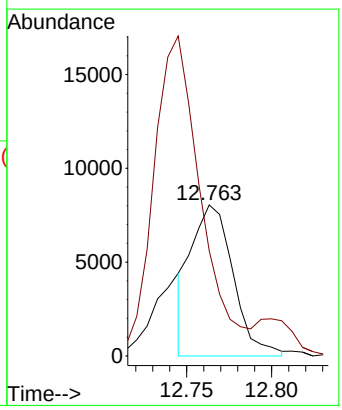
Supervised By :Semsettin Yesilyurt 08/12/2025

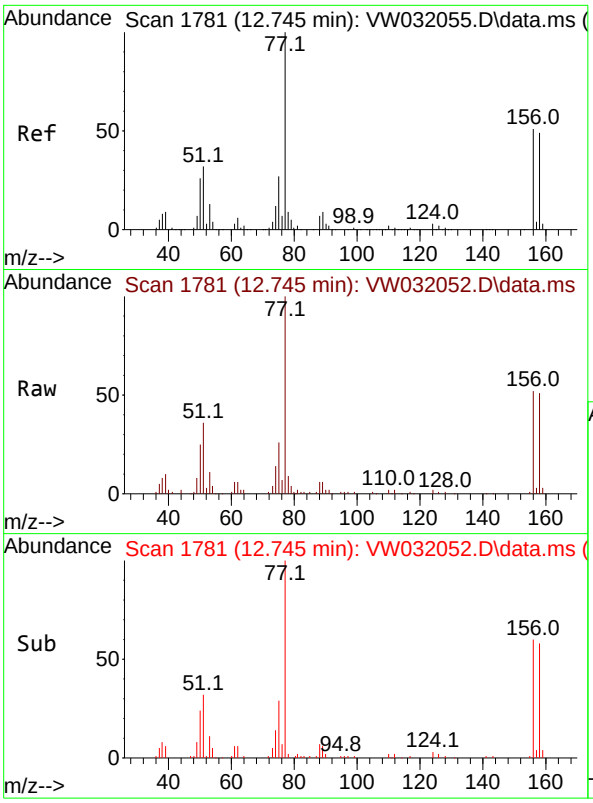



#76
1,2,3-Trichloropropane
Concen: 4.568 ug/l m
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 75 Resp: 13829

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 238.4 | 123.5 | 370.5 |

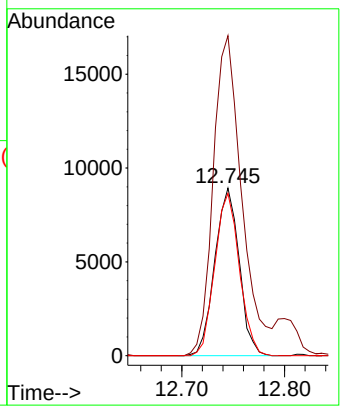





#77
Bromobenzene
Concen: 4.471 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:156 Resp: 1469

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 224.3 | 108.7 | 326.3 |
| 158 | 97.7 | 48.3 | 144.9 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

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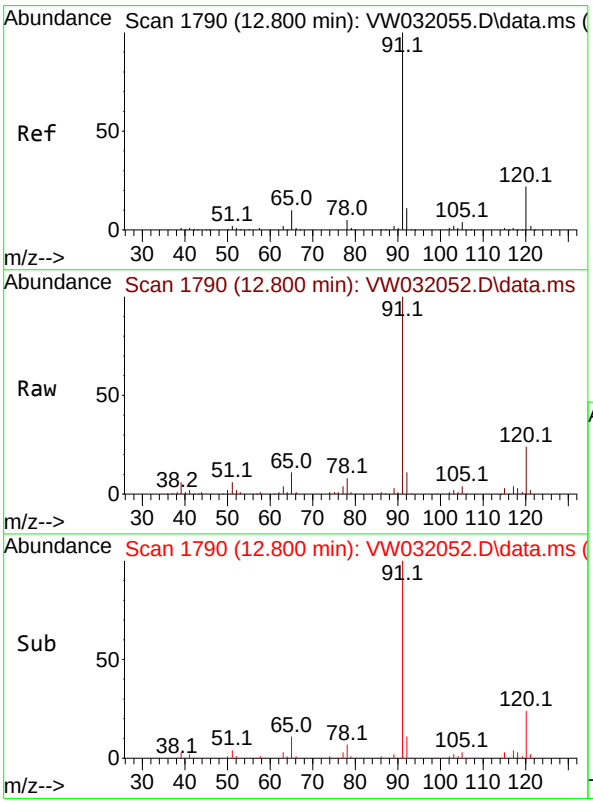
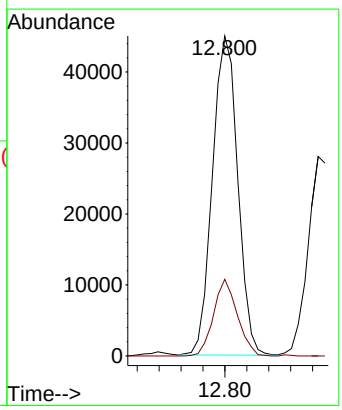
Supervised By :Semsettin Yesilyurt 08/12/2025

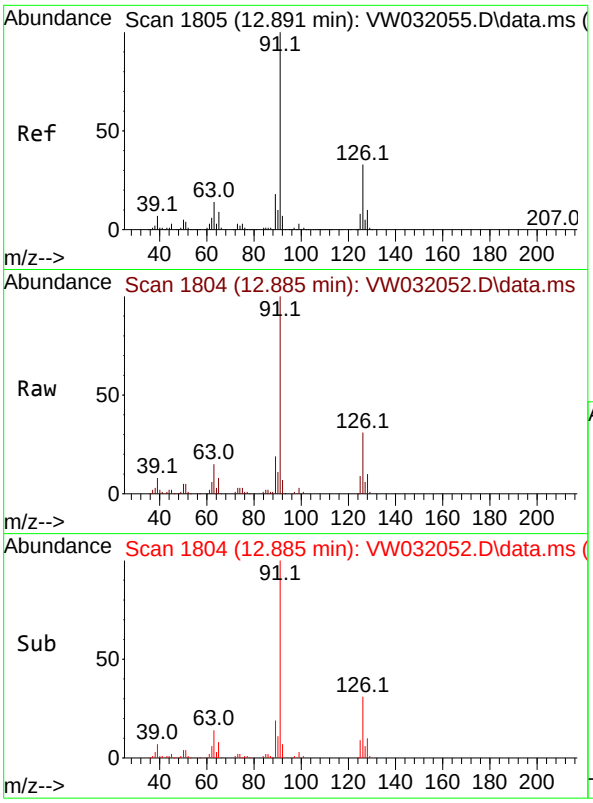



#78
n-propylbenzene
Concen: 4.257 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 91 Resp: 72140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.6 | 11.1 | 33.3 |

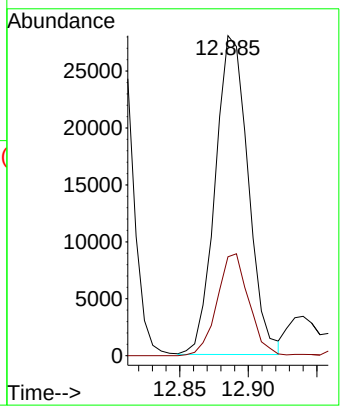





#79
2-Chlorotoluene
Concen: 4.483 ug/l
RT: 12.885 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 91 Resp: 4687

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 30.8 | 15.9 | 47.7 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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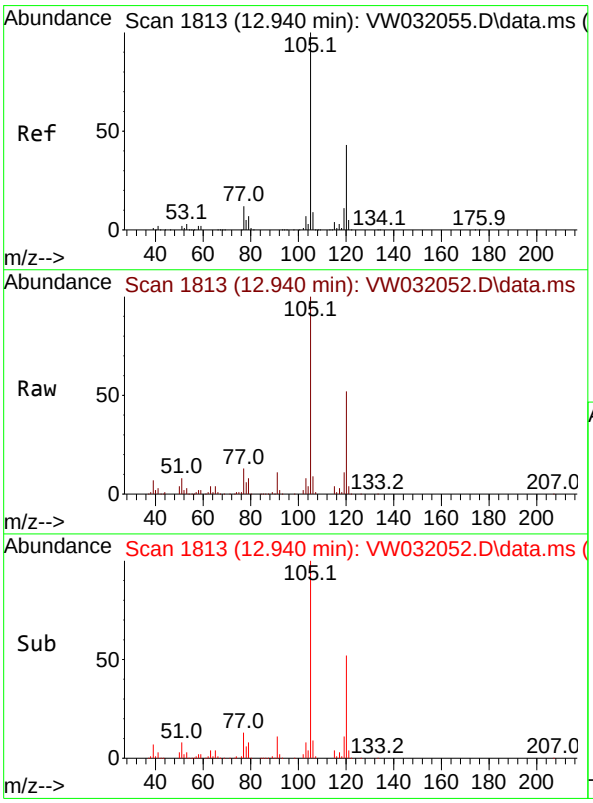
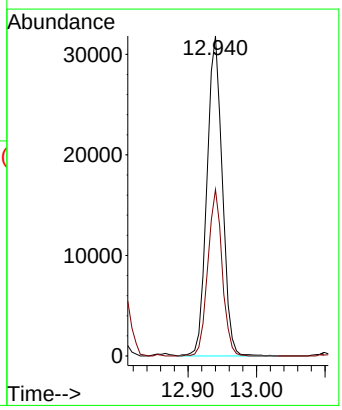
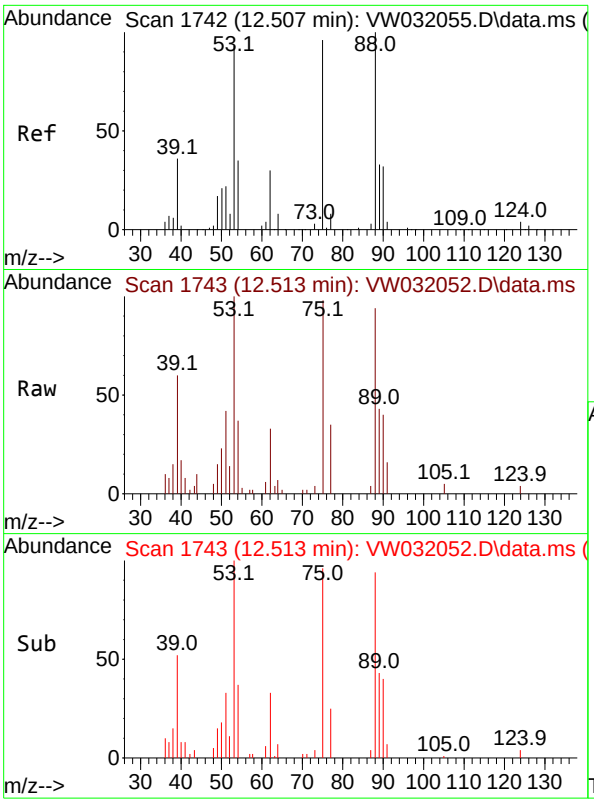



#80
1,3,5-Trimethylbenzene
Concen: 4.245 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:105 Resp: 49607

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.6 | 23.4 | 70.0 |

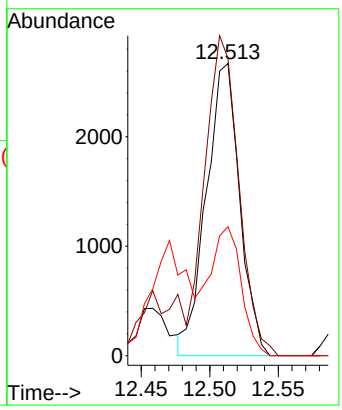





#81
trans-1,4-Dichloro-2-butene
Concen: 4.378 ug/l
RT: 12.513 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 75 Resp: 452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 110.7 | 81.0 | 121.6 |
| 89 | 43.0 | 37.3 | 55.9 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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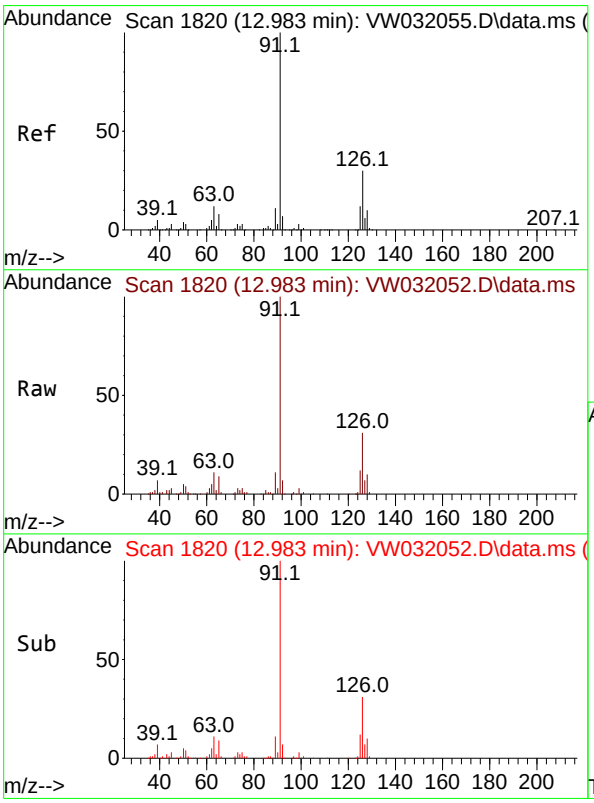
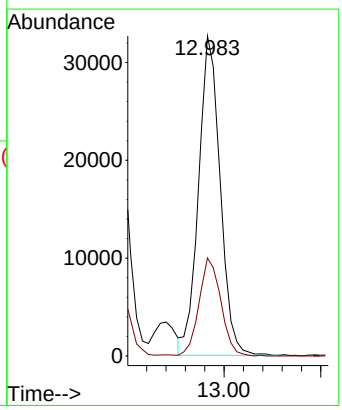
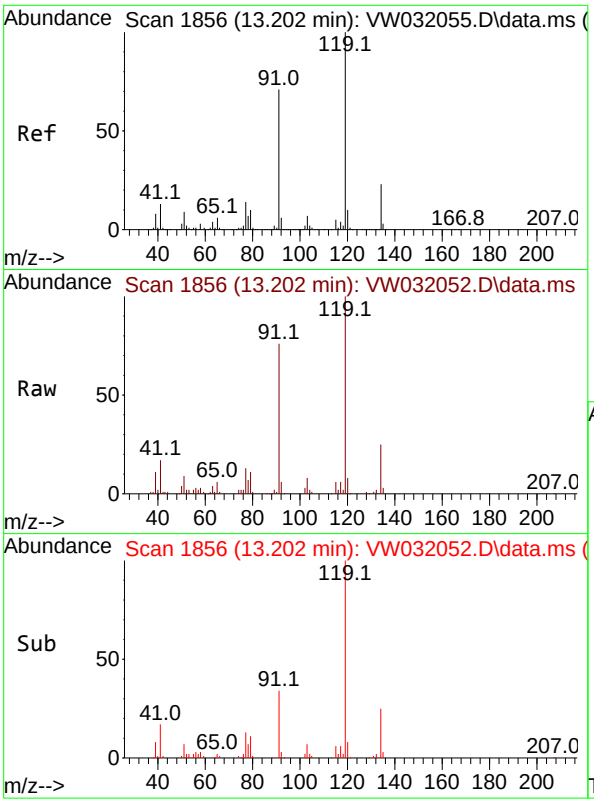



#82
4-Chlorotoluene
Concen: 4.570 ug/l
RT: 12.983 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 91 Resp: 50782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.1 | 15.5 | 46.5 |

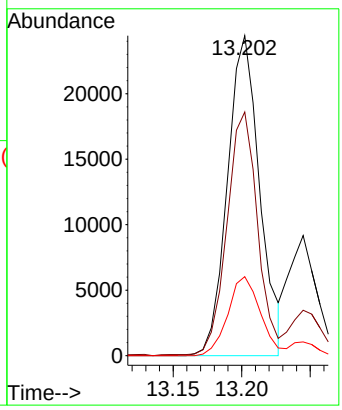





#83
tert-Butylbenzene
Concen: 4.124 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:119 Resp: 3999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 72.6 | 35.3 | 105.9 |
| 134 | 25.1 | 12.1 | 36.3 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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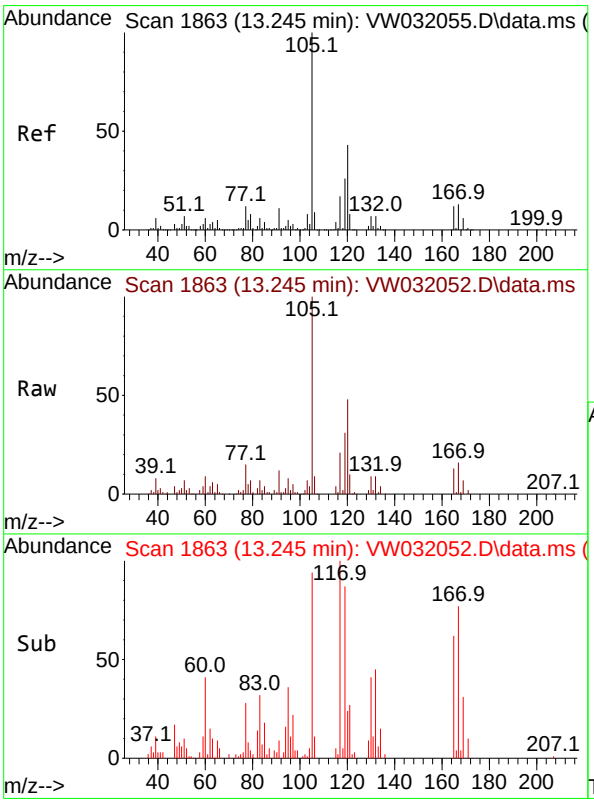
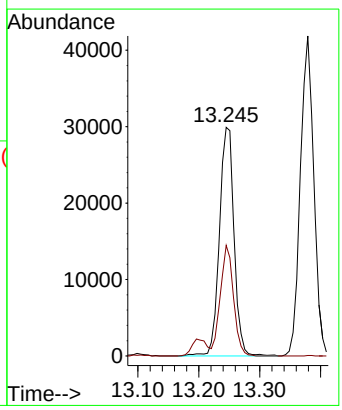
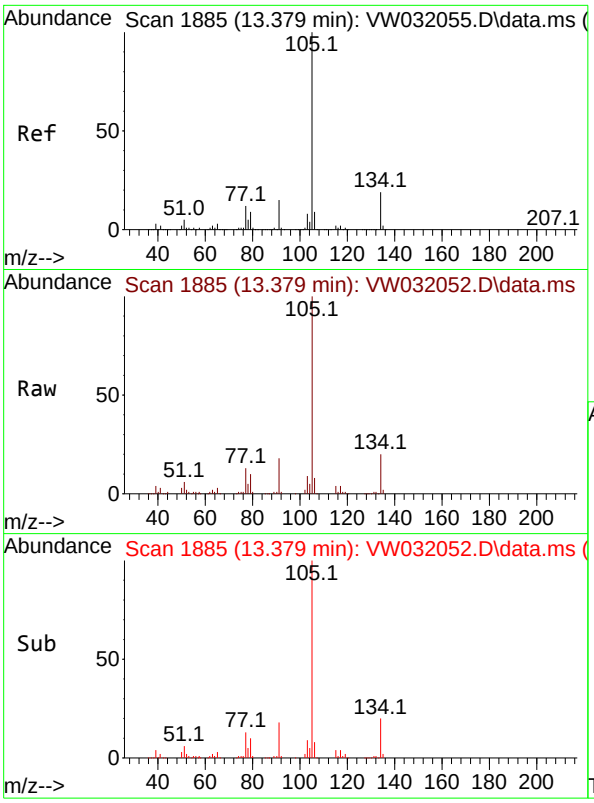



#84
1,2,4-Trimethylbenzene
Concen: 4.194 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:105 Resp: 49891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.4 | 21.6 | 64.8 |

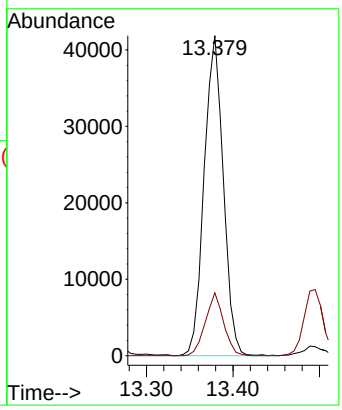





#85
sec-Butylbenzene
Concen: 4.382 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:105 Resp: 6425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 18.7 | 9.9 | 29.7 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

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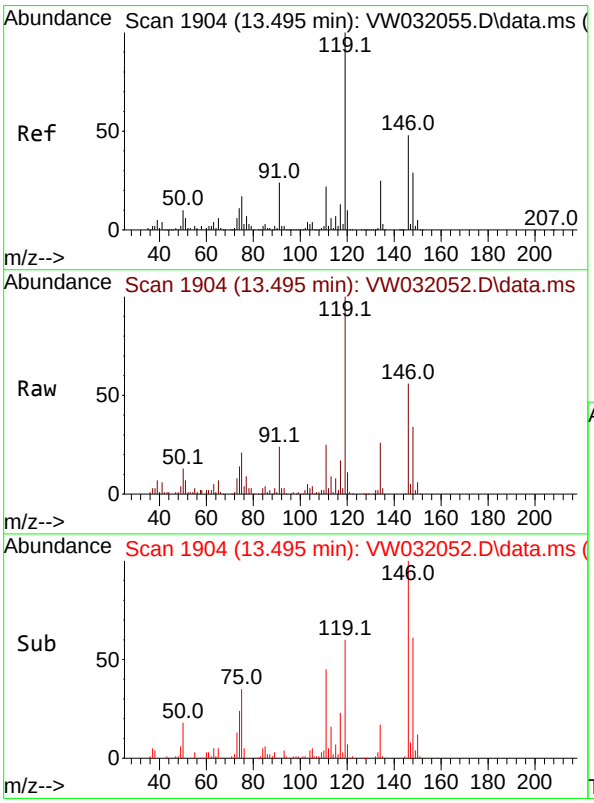
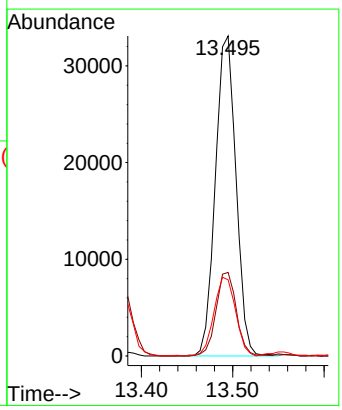
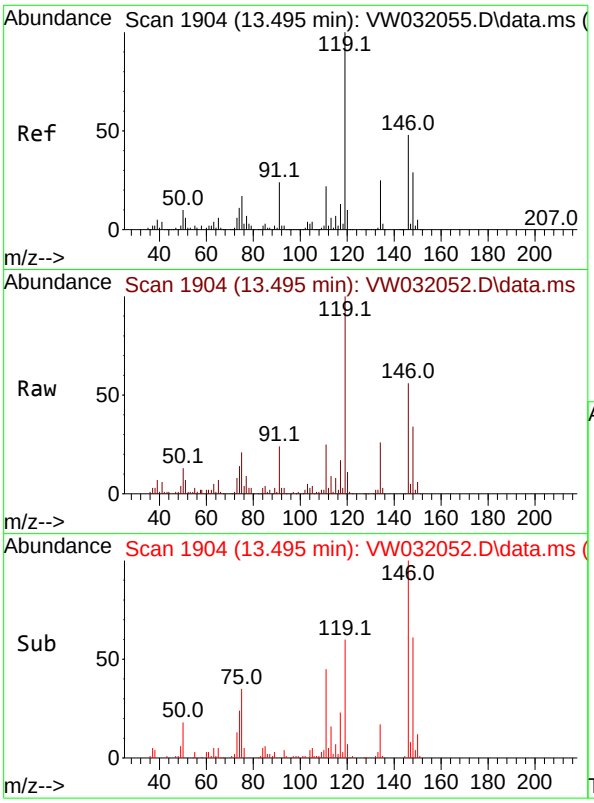



#86
p-Isopropyltoluene
Concen: 4.249 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:119 Resp: 51939

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.8 | 12.4 | 37.0 |
| 91 | 25.7 | 12.1 | 36.3 |

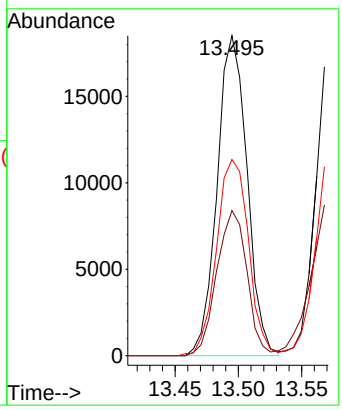





#87
1,3-Dichlorobenzene
Concen: 4.654 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:146 Resp: 3044

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.7 | 21.2 | 63.6 |
| 148 | 65.5 | 30.3 | 90.8 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

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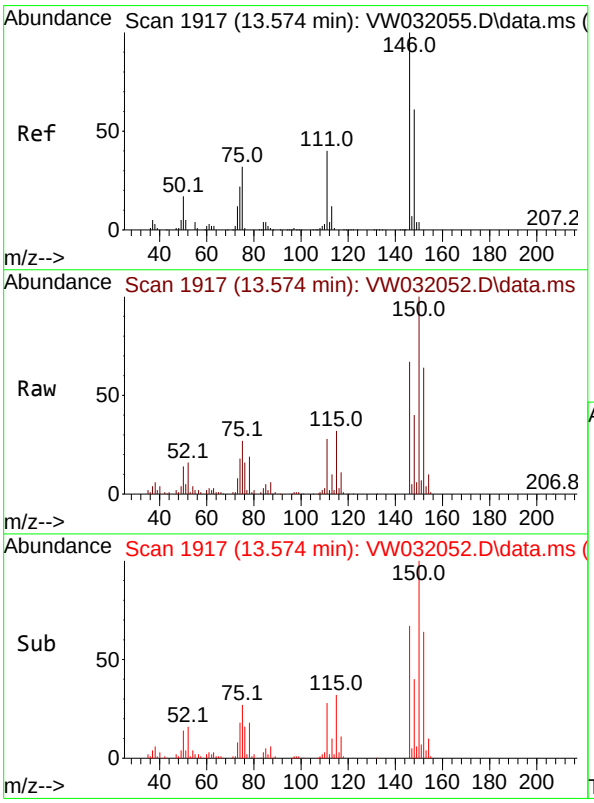
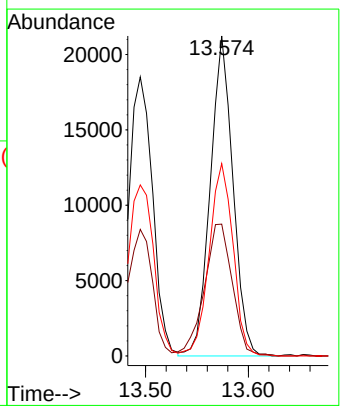
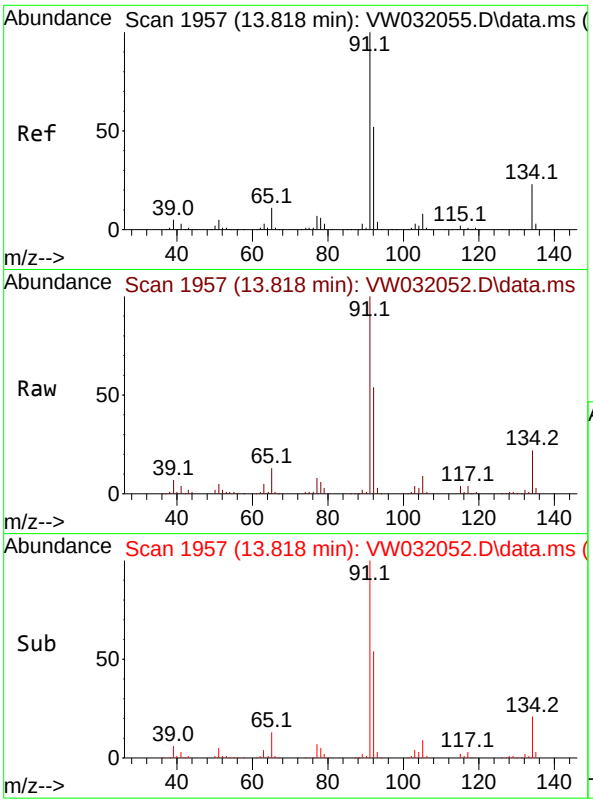



#88
1,4-Dichlorobenzene
Concen: 4.925 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:146 Resp: 32554

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 51.0 | 21.6 | 64.6 |
| 148 | 63.5 | 32.0 | 96.2 |

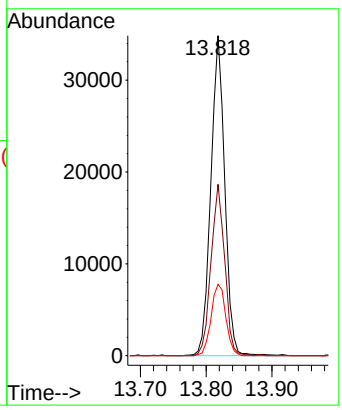





#89
n-Butylbenzene
Concen: 4.323 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 91 Resp: 5132

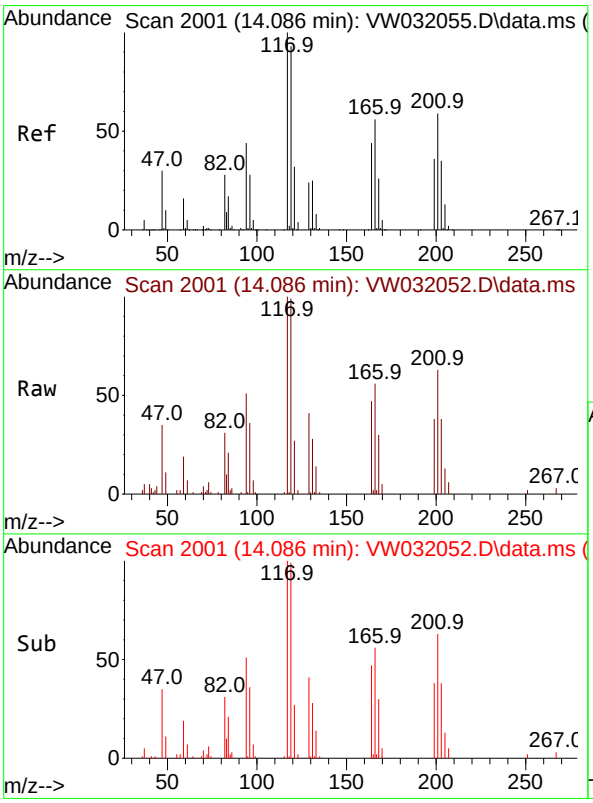
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.6 | 26.7 | 80.1 |
| 134 | 23.5 | 12.0 | 36.1 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

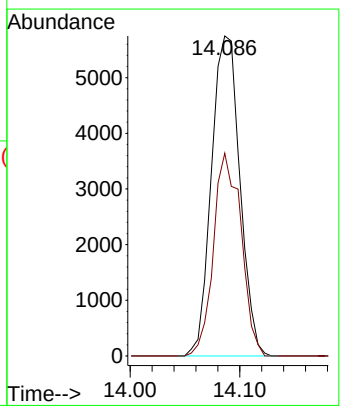
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

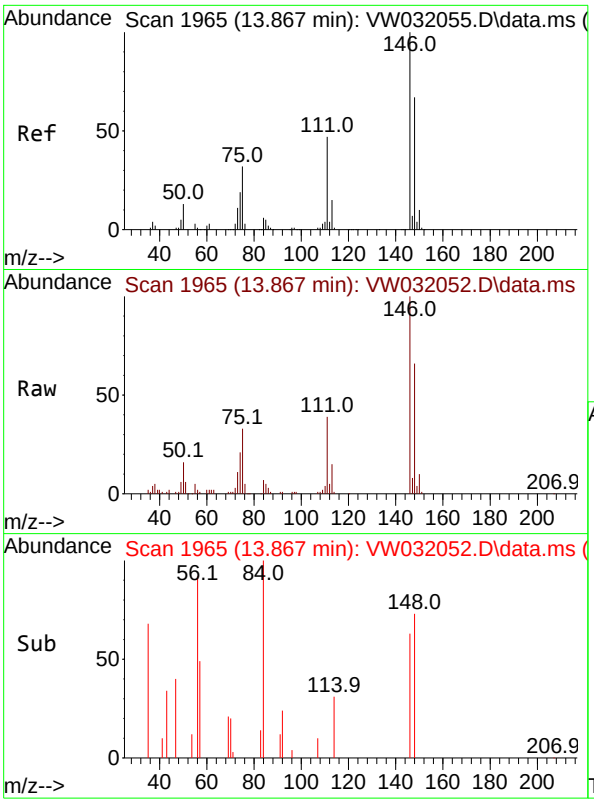



#90
Hexachloroethane
Concen: 4.640 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:117 Resp: 10372

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 61.2 | 30.9 | 92.5 |

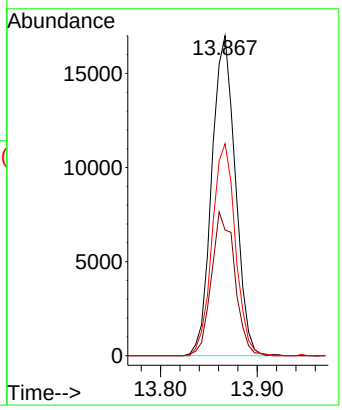





#91
1,2-Dichlorobenzene
Concen: 4.836 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:146 Resp: 2865

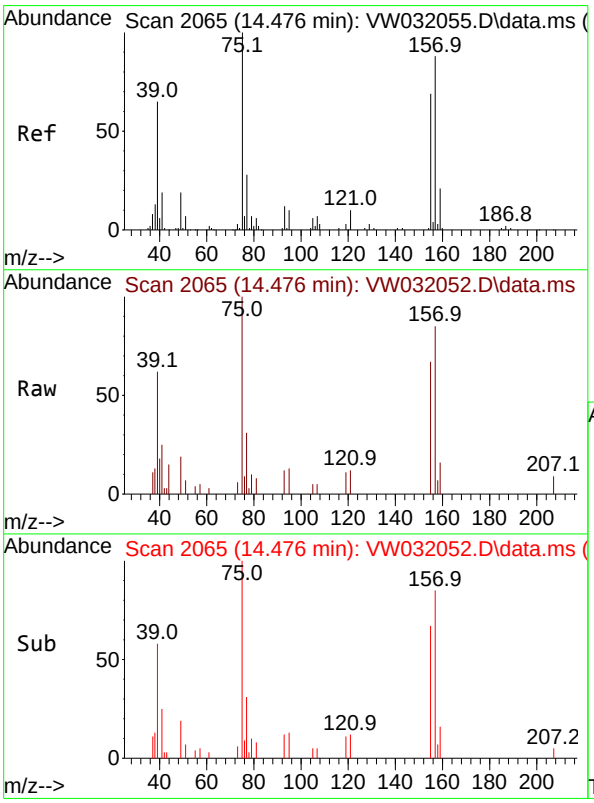
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.7 | 23.1 | 69.3 |
| 148 | 65.7 | 32.9 | 98.6 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

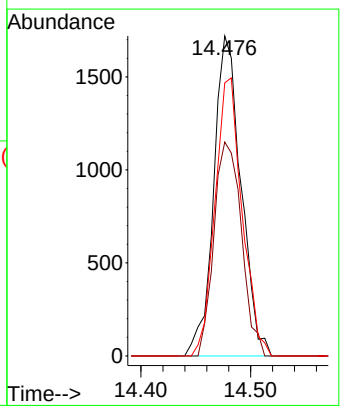
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

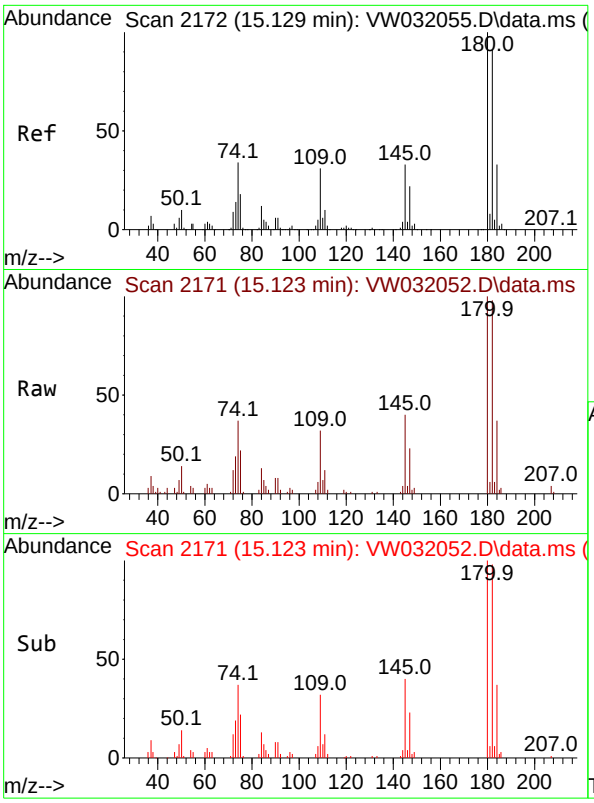



#92
1,2-Dibromo-3-Chloropropane
Concen: 5.123 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 75 Resp: 2976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 67.4 | 35.2 | 105.6 |
| 157 | 86.2 | 47.5 | 142.6 |

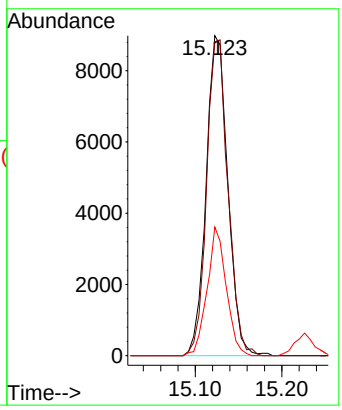





#93
1,2,4-Trichlorobenzene
Concen: 4.414 ug/l
RT: 15.123 min Scan# 21
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:180 Resp: 1564

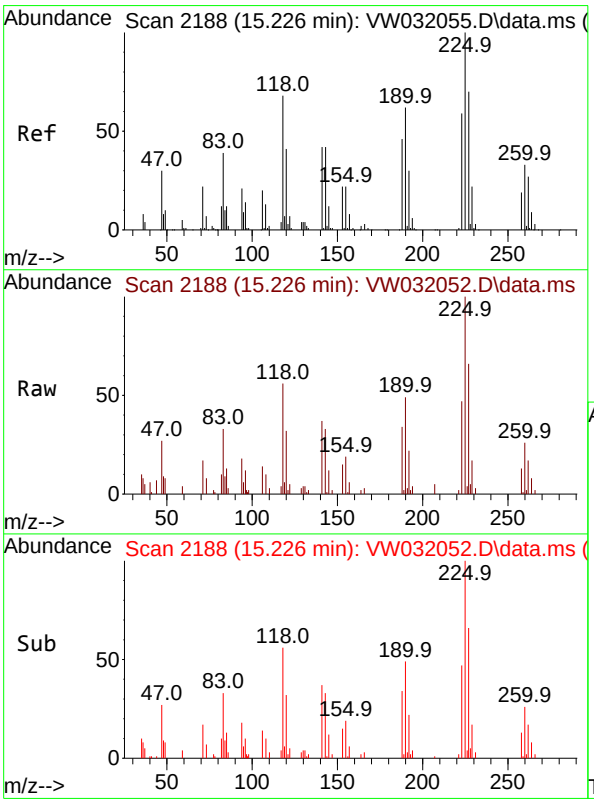
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.8 | 49.0 | 147.0 |
| 145 | 35.4 | 17.3 | 51.9 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

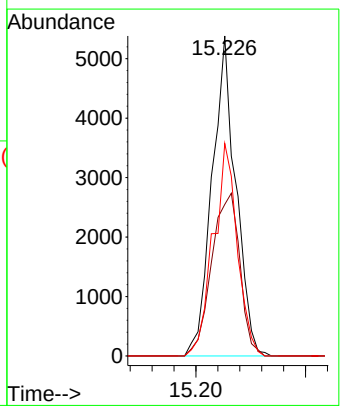
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

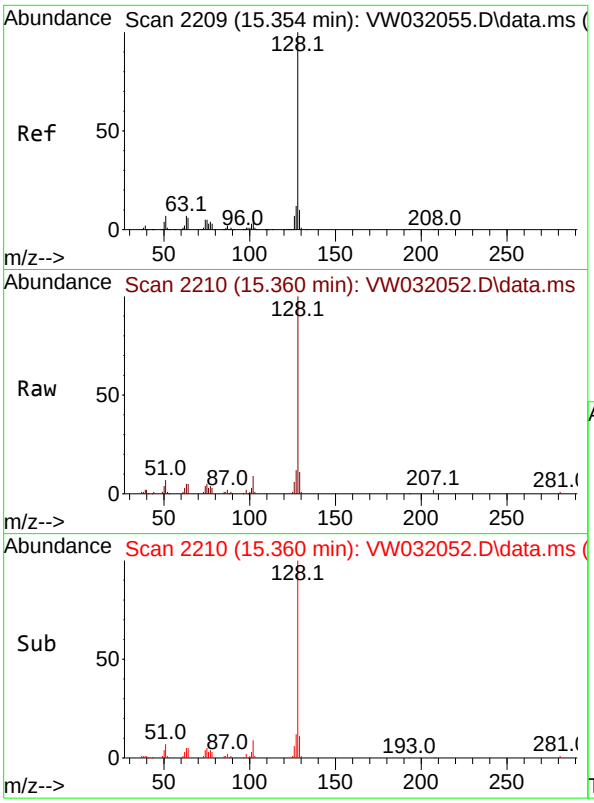



#94
Hexachlorobutadiene
Concen: 5.118 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:225 Resp: 8109

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 60.1 | 31.8 | 95.3 |
| 227 | 66.8 | 33.5 | 100.5 |

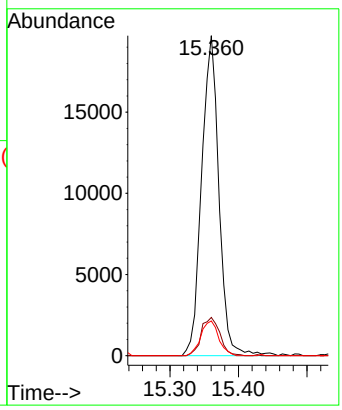





#95
Naphthalene
Concen: 3.991 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:128 Resp: 3466

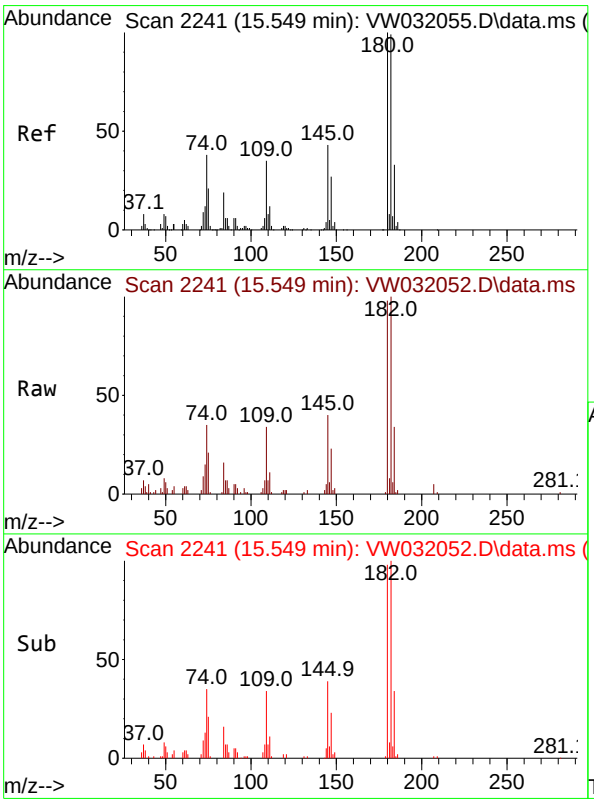
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.9 | 10.5 | 15.7 |
| 129 | 11.2 | 8.2 | 12.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

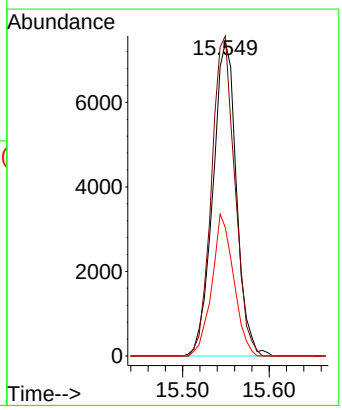
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025




#96
1,2,3-Trichlorobenzene
Concen: 4.357 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:180 Resp: 14053

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 100.4 | 46.0 | 138.0 |
| 145 | 41.7 | 19.2 | 57.6 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032053.D
Acq On : 11 Aug 2025 09:09
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Quant Time: Aug 12 03:37:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.959 | 168 | 225221 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.849 | 114 | 426784 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.629 | 117 | 385631 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.556 | 152 | 181281 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.319 | 65 | 33671 | 10.337 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 63 - 155 | | Recovery = | 20.680%# | | |
| 35) Dibromofluoromethane | 7.904 | 113 | 27978 | 10.147 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 70 - 134 | | Recovery = | 20.300%# | | |
| 50) Toluene-d8 | 10.331 | 98 | 100702 | 9.875 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 123 | | Recovery = | 19.740%# | | |
| 62) 4-Bromofluorobenzene | 12.617 | 95 | 36748 | 9.778 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 17 - 146 | | Recovery = | 19.560% | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.039 | 85 | 17258 | 10.714 | ug/l | 99 |
| 3) Chloromethane | 2.253 | 50 | 21693 | 9.998 | ug/l | 91 |
| 4) Vinyl Chloride | 2.405 | 62 | 27978 | 10.660 | ug/l | 92 |
| 5) Bromomethane | 2.826 | 94 | 20345 | 10.332 | ug/l | 93 |
| 6) Chloroethane | 2.966 | 64 | 17509 | 10.081 | ug/l | 98 |
| 7) Trichlorofluoromethane | 3.301 | 101 | 19623 | 9.333 | ug/l | 99 |
| 8) Diethyl Ether | 3.716 | 74 | 17227 | 10.000 | ug/l | 95 |
| 9) 1,1,2-Trichlorotrifluo... | 4.100 | 101 | 25491 | 10.276 | ug/l | 99 |
| 10) Methyl Iodide | 4.301 | 142 | 35515 | 10.098 | ug/l | 98 |
| 11) Tert butyl alcohol | 5.228 | 59 | 10754 | 50.985 | ug/l | 98 |
| 12) 1,1-Dichloroethene | 4.082 | 96 | 27944 | 10.231 | ug/l | 99 |
| 13) Acrolein | 3.929 | 56 | 18650 | 55.493 | ug/l | 94 |
| 14) Allyl chloride | 4.704 | 41 | 39114 | 9.839 | ug/l | 100 |
| 15) Acrylonitrile | 5.405 | 53 | 42536 | 51.842 | ug/l | 100 |
| 16) Acetone | 4.161 | 43 | 40816 | 54.122 | ug/l | 99 |
| 17) Carbon Disulfide | 4.423 | 76 | 72806 | 9.931 | ug/l | 97 |
| 18) Methyl Acetate | 4.716 | 43 | 27191 | 11.394 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.460 | 73 | 47872 | 9.947 | ug/l | 97 |
| 20) Methylene Chloride | 4.960 | 84 | 35462 | 10.170 | ug/l | 95 |
| 21) trans-1,2-Dichloroethene | 5.454 | 96 | 28875 | 9.962 | ug/l | 93 |
| 22) Diisopropyl ether | 6.344 | 45 | 84045 | 10.029 | ug/l | 97 |
| 23) Vinyl Acetate | 6.283 | 43 | 259050 | 47.081 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 6.240 | 63 | 54051 | 10.095 | ug/l | 98 |
| 25) 2-Butanone | 7.197 | 43 | 54327 | 50.685 | ug/l | 98 |
| 26) 2,2-Dichloropropane | 7.185 | 77 | 27463 | 10.224 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 7.191 | 96 | 33173 | 9.791 | ug/l | 99 |
| 28) Bromochloromethane | 7.532 | 49 | 24412 | 10.019 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.557 | 42 | 35909 | 50.800 | ug/l | 99 |
| 30) Chloroform | 7.697 | 83 | 57170 | 10.071 | ug/l | 99 |
| 31) Cyclohexane | 7.971 | 56 | 48633 | 10.477 | ug/l # | 95 |
| 32) 1,1,1-Trichloroethane | 7.886 | 97 | 42747 | 10.368 | ug/l | 97 |
| 36) 1,1-Dichloropropene | 8.093 | 75 | 38994 | 10.032 | ug/l | 99 |
| 37) Ethyl Acetate | 7.276 | 43 | 23053 | 10.070 | ug/l | 96 |
| 38) Carbon Tetrachloride | 8.081 | 117 | 37535 | 10.007 | ug/l | 91 |
| 39) Methylcyclohexane | 9.343 | 83 | 46100 | 9.731 | ug/l | 96 |
| 40) Benzene | 8.337 | 78 | 121462 | 10.053 | ug/l | 95 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032053.D
Acq On : 11 Aug 2025 09:09
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Quant Time: Aug 12 03:37:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.502 | 41 | 11729 | 9.035 | ug/l | # | 90 |
| 42) 1,2-Dichloroethane | 8.410 | 62 | 39882 | 10.316 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.435 | 43 | 41036 | 9.743 | ug/l | | 98 |
| 44) Trichloroethene | 9.105 | 130 | 28498 | 9.905 | ug/l | | 99 |
| 45) 1,2-Dichloropropane | 9.374 | 63 | 29199 | 10.004 | ug/l | | 98 |
| 46) Dibromomethane | 9.471 | 93 | 18653 | 9.901 | ug/l | | 98 |
| 47) Bromodichloromethane | 9.654 | 83 | 42618 | 9.818 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.441 | 41 | 19654 | 9.666 | ug/l | | 98 |
| 49) 1,4-Dioxane | 9.465 | 88 | 4684 | 192.302 | ug/l | | 99 |
| 51) 4-Methyl-2-Pentanone | 10.215 | 43 | 121419 | 51.075 | ug/l | | 99 |
| 52) Toluene | 10.392 | 92 | 75250 | 9.888 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.605 | 75 | 38397 | 9.441 | ug/l | | 96 |
| 54) cis-1,3-Dichloropropene | 10.075 | 75 | 44031 | 9.543 | ug/l | | 97 |
| 55) 1,1,2-Trichloroethane | 10.788 | 97 | 25277 | 10.097 | ug/l | | 96 |
| 56) Ethyl methacrylate | 10.648 | 69 | 31022 | 9.260 | ug/l | | 97 |
| 57) 1,3-Dichloropropane | 10.934 | 76 | 44743 | 10.254 | ug/l | | 98 |
| 58) 2-Chloroethyl Vinyl ether | 9.928 | 63 | 88627 | 47.830 | ug/l | | 100 |
| 59) 2-Hexanone | 10.971 | 43 | 82830 | 50.310 | ug/l | | 97 |
| 60) Dibromochloromethane | 11.129 | 129 | 27954 | 9.776 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 11.239 | 107 | 24146 | 9.926 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.867 | 164 | 23235 | 10.431 | ug/l | | 90 |
| 65) Chlorobenzene | 11.660 | 112 | 86096 | 10.257 | ug/l | | 96 |
| 66) 1,1,1,2-Tetrachloroethane | 11.733 | 131 | 26286 | 10.037 | ug/l | | 97 |
| 67) Ethyl Benzene | 11.733 | 91 | 139254 | 9.794 | ug/l | | 98 |
| 68) m/p-Xylenes | 11.837 | 106 | 108990 | 19.866 | ug/l | | 98 |
| 69) o-Xylene | 12.166 | 106 | 49259 | 9.714 | ug/l | | 97 |
| 70) Styrene | 12.184 | 104 | 87542 | 9.719 | ug/l | | 99 |
| 71) Bromoform | 12.349 | 173 | 14547 | 9.711 | ug/l | # | 97 |
| 73) Isopropylbenzene | 12.464 | 105 | 125246 | 9.886 | ug/l | | 98 |
| 74) N-amyl acetate | 12.269 | 43 | 35636 | 9.804 | ug/l | | 97 |
| 75) 1,1,2,2-Tetrachloroethane | 12.714 | 83 | 31581 | 10.499 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.763 | 75 | 25489m | 9.147 | ug/l | | |
| 77) Bromobenzene | 12.745 | 156 | 31656 | 10.462 | ug/l | | 98 |
| 78) n-propylbenzene | 12.800 | 91 | 156266 | 10.019 | ug/l | | 98 |
| 79) 2-Chlorotoluene | 12.891 | 91 | 96942 | 10.071 | ug/l | | 98 |
| 80) 1,3,5-Trimethylbenzene | 12.940 | 105 | 108123 | 10.053 | ug/l | | 97 |
| 81) trans-1,4-Dichloro-2-b... | 12.513 | 75 | 8936 | 9.403 | ug/l | | 90 |
| 82) 4-Chlorotoluene | 12.989 | 91 | 103329 | 10.103 | ug/l | | 100 |
| 83) tert-Butylbenzene | 13.202 | 119 | 86848 | 9.729 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.245 | 105 | 110697 | 10.110 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.379 | 105 | 131663 | 9.756 | ug/l | | 98 |
| 86) p-Isopropyltoluene | 13.495 | 119 | 110557 | 9.827 | ug/l | | 98 |
| 87) 1,3-Dichlorobenzene | 13.495 | 146 | 62383 | 10.361 | ug/l | | 97 |
| 88) 1,4-Dichlorobenzene | 13.574 | 146 | 62843 | 10.328 | ug/l | | 98 |
| 89) n-Butylbenzene | 13.818 | 91 | 108004 | 9.881 | ug/l | | 99 |
| 90) Hexachloroethane | 14.086 | 117 | 20175 | 9.805 | ug/l | | 96 |
| 91) 1,2-Dichlorobenzene | 13.867 | 146 | 56501 | 10.359 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.482 | 75 | 5305 | 9.920 | ug/l | | 95 |
| 93) 1,2,4-Trichlorobenzene | 15.129 | 180 | 31816 | 9.751 | ug/l | | 97 |
| 94) Hexachlorobutadiene | 15.232 | 225 | 14987 | 10.276 | ug/l | | 98 |
| 95) Naphthalene | 15.360 | 128 | 76287 | 9.542 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.549 | 180 | 28678 | 9.660 | ug/l | | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032053.D
Acq On : 11 Aug 2025 09:09
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Quant Time: Aug 12 03:37:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

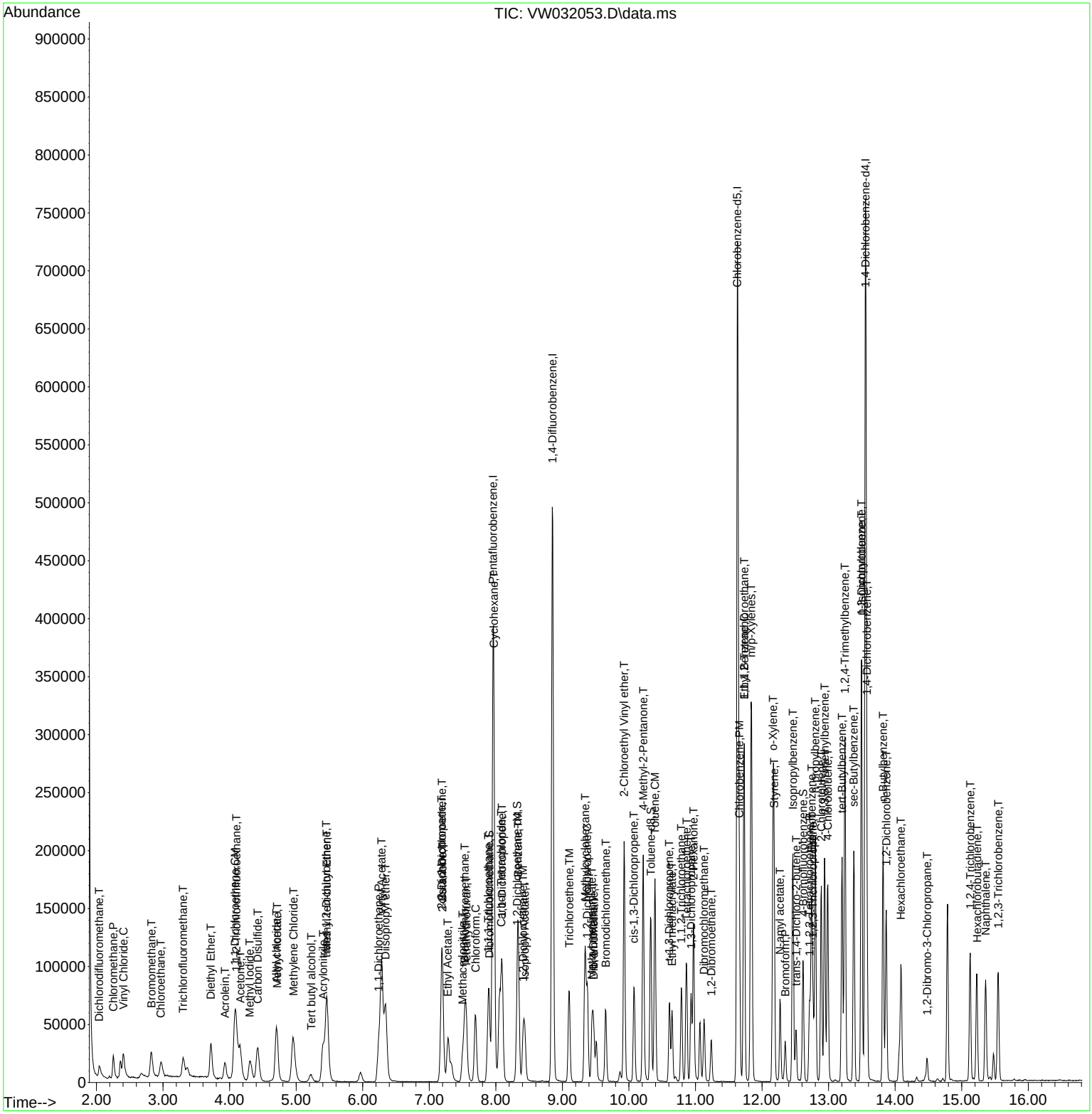
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032053.D
Acq On : 11 Aug 2025 09:09
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

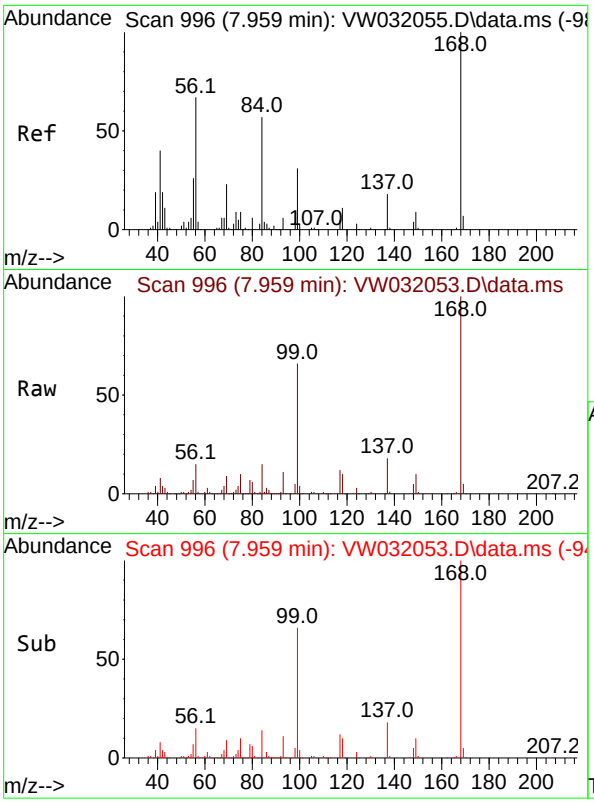
Quant Time: Aug 12 03:37:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

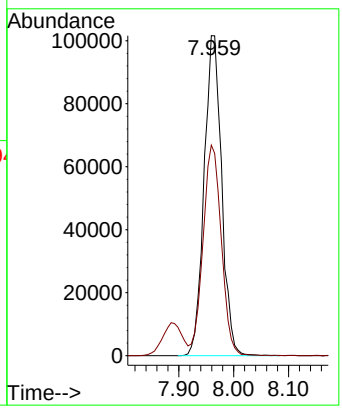





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:168 Resp: 22522

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 65.7 | 56.0 | 84.0 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

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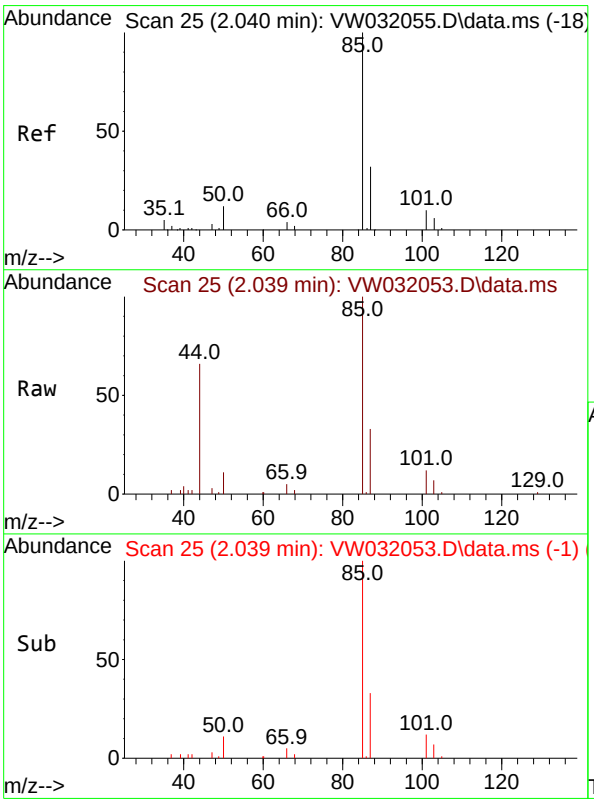
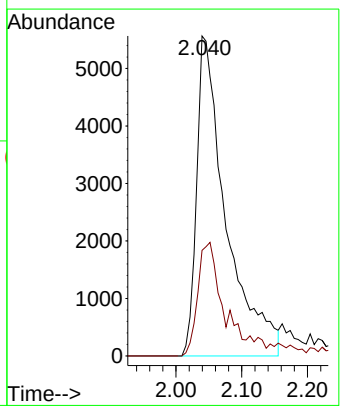
Supervised By :Semsettin Yesilyurt 08/12/2025

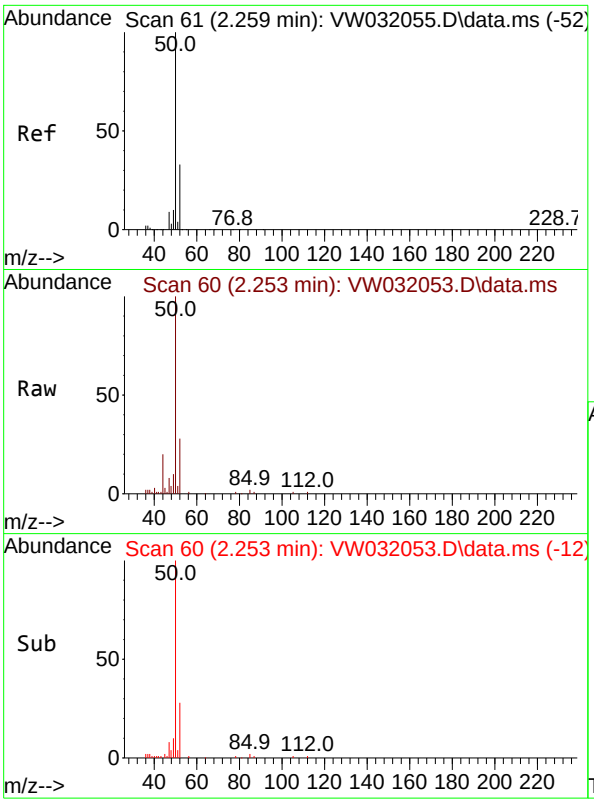



#2
Dichlorodifluoromethane
Concen: 10.714 ug/l
RT: 2.039 min Scan# 25
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 85 Resp: 17258

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.0 | 16.2 | 48.6 |

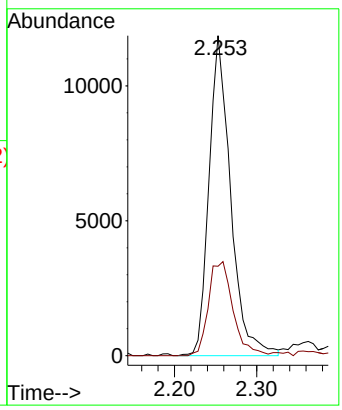





#3
Chloromethane
Concen: 9.998 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 50 Resp: 2169

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 27.9 | 26.6 | 39.8 |

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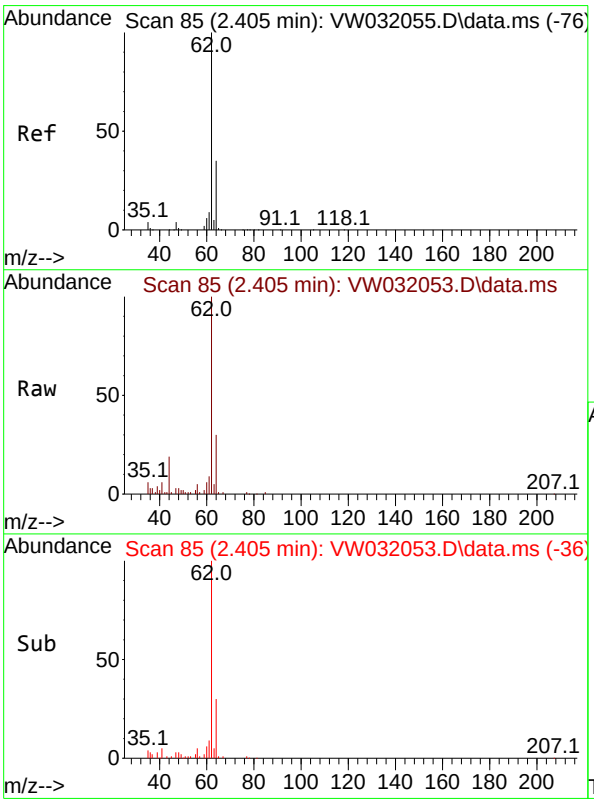
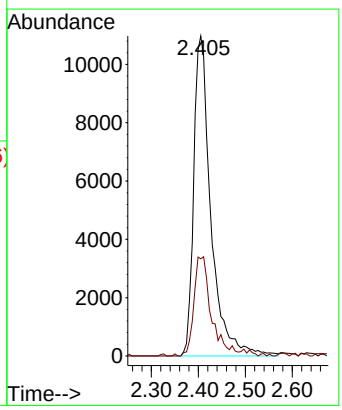
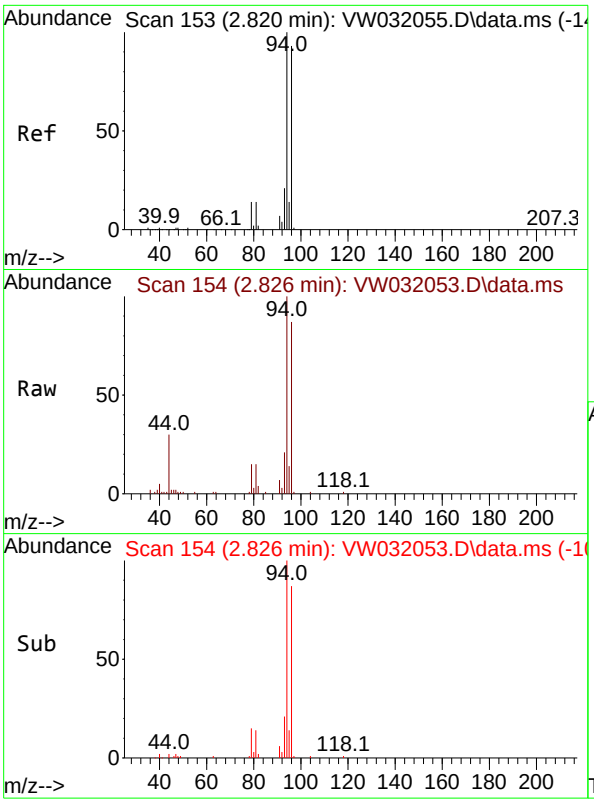



#4
Vinyl Chloride
Concen: 10.660 ug/l
RT: 2.405 min Scan# 85
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 62 Resp: 27978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 30.3 | 27.8 | 41.6 |

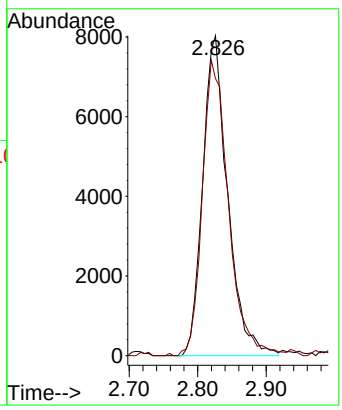





#5
Bromomethane
Concen: 10.332 ug/l
RT: 2.826 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 94 Resp: 2034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 86.6 | 74.7 | 112.1 |




**Instrument :**
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VSTDICC010

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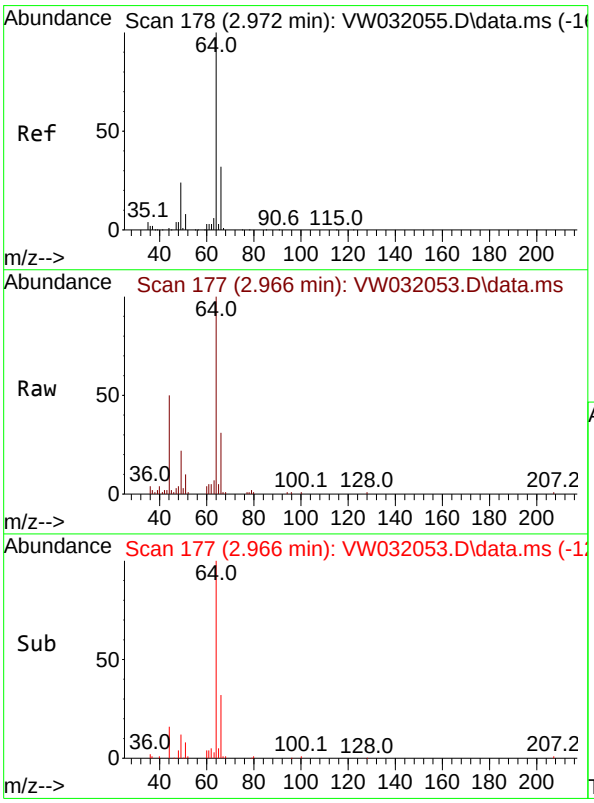
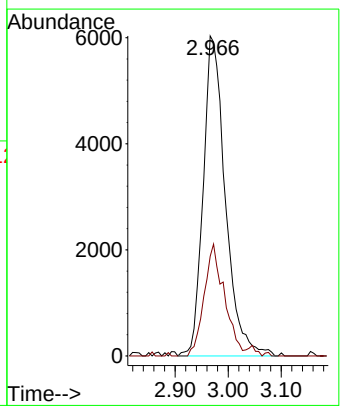
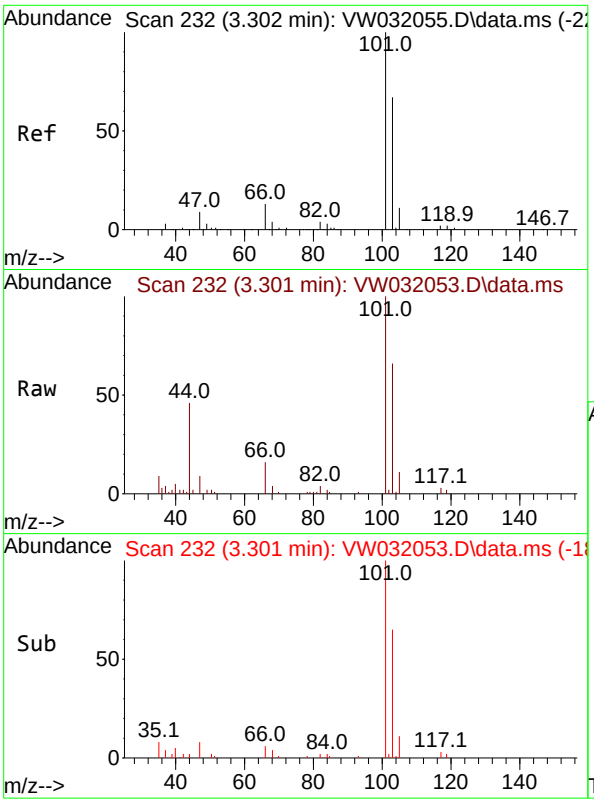



#6
Chloroethane
Concen: 10.081 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 64 Resp: 17509

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.2 | 26.0 | 39.0 |

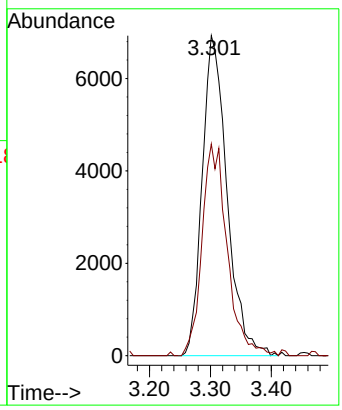





#7
Trichlorofluoromethane
Concen: 9.333 ug/l
RT: 3.301 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:101 Resp: 1962

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 66.2 | 53.4 | 80.0 |




**Instrument :**
MSVOA_W
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VSTDICC010

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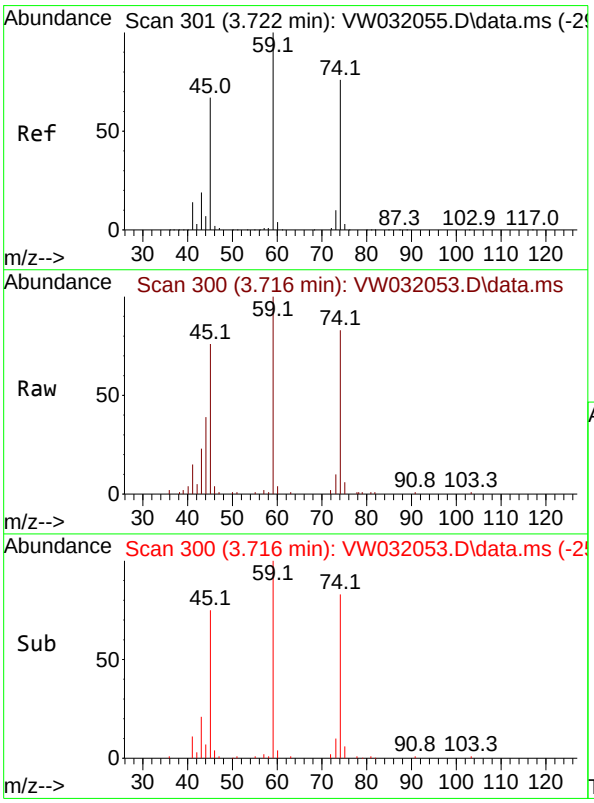
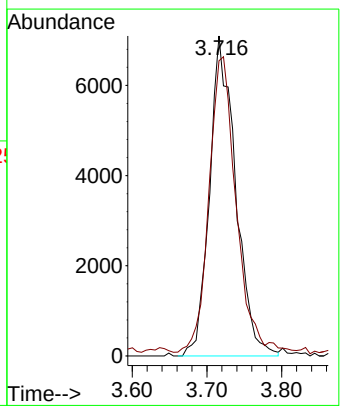
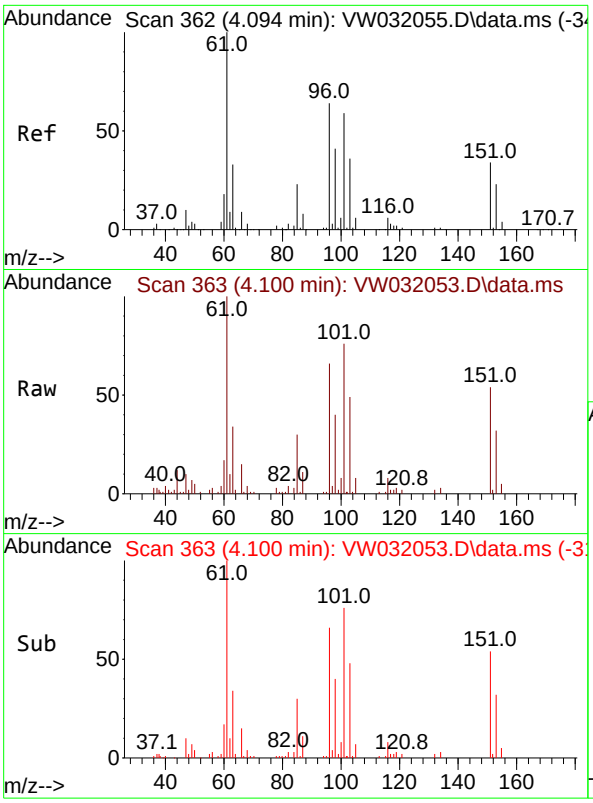



#8
Diethyl Ether
Concen: 10.000 ug/l
RT: 3.716 min Scan# 300
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 74 Resp: 17227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 95.9 | 45.4 | 136.2 |

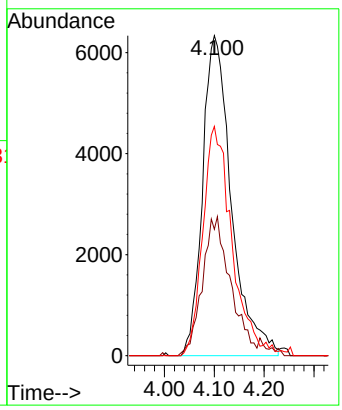





#9
1,1,2-Trichlorotrifluoroethane
Concen: 10.276 ug/l
RT: 4.100 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:101 Resp: 2549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 42.4 | 34.9 | 52.3 |
| 151 | 70.9 | 56.2 | 84.4 |




**Instrument :**
MSVOA_W
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VSTDICC010

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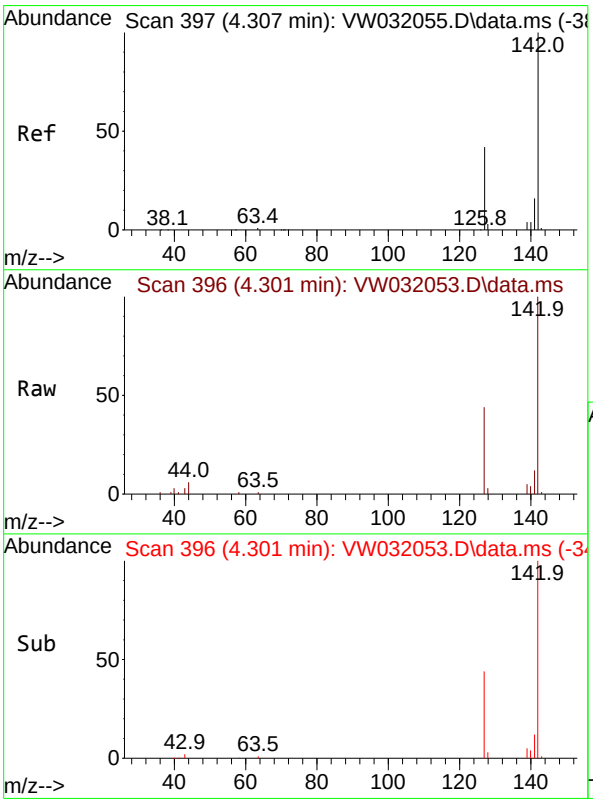
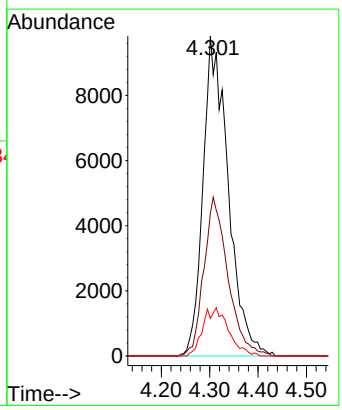
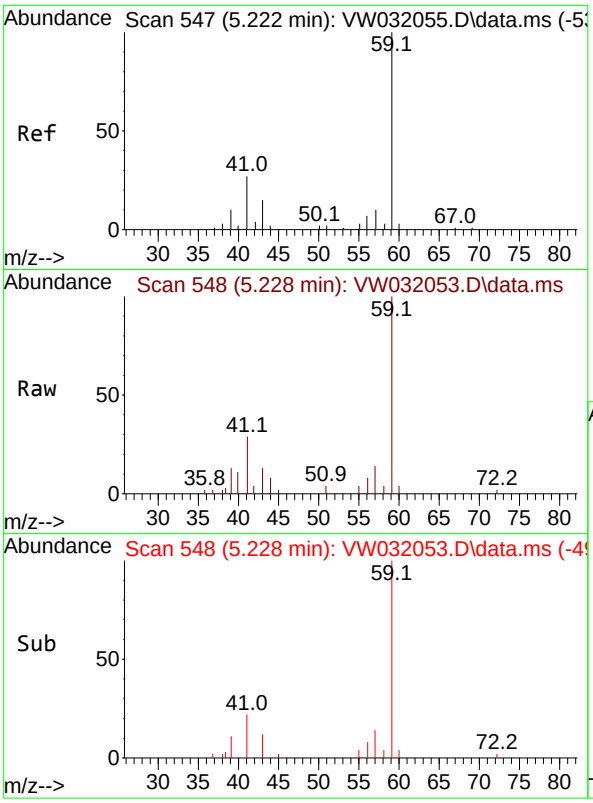



#10
Methyl Iodide
Concen: 10.098 ug/l
RT: 4.301 min Scan# 396
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:142 Resp: 35515

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 47.6 | 36.6 | 55.0 |
| 141 | 15.4 | 12.1 | 18.1 |

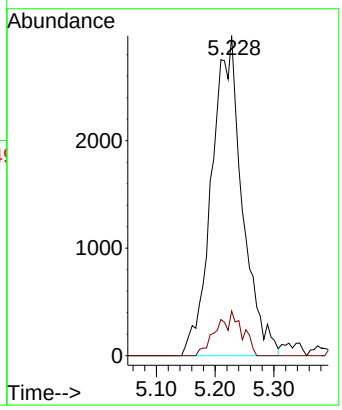





#11
Tert butyl alcohol
Concen: 50.985 ug/l
RT: 5.228 min Scan# 54
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 59 Resp: 1075

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 11.7 | 8.7 | 13.1 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

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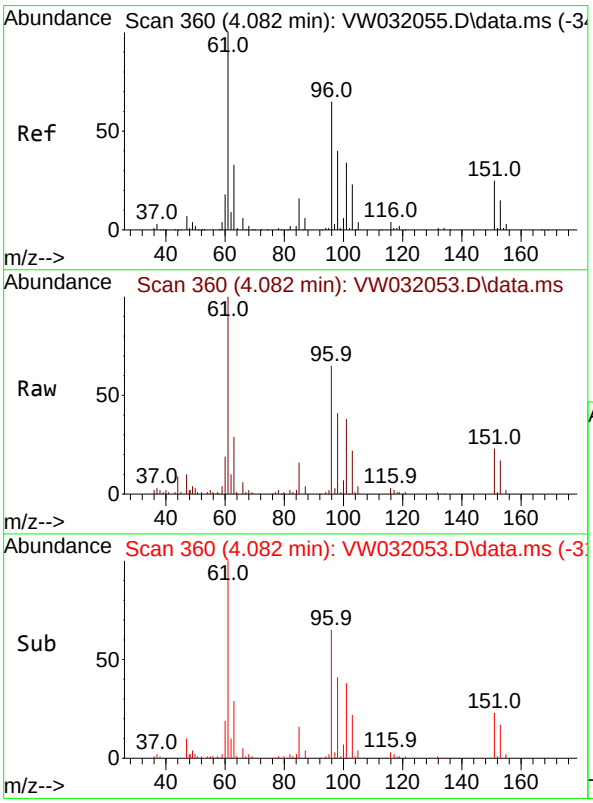
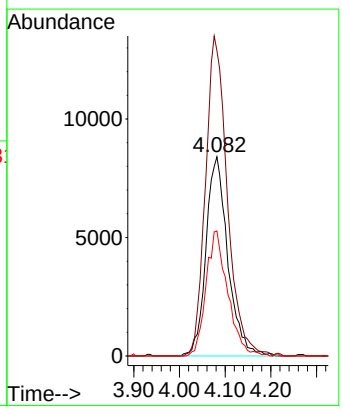
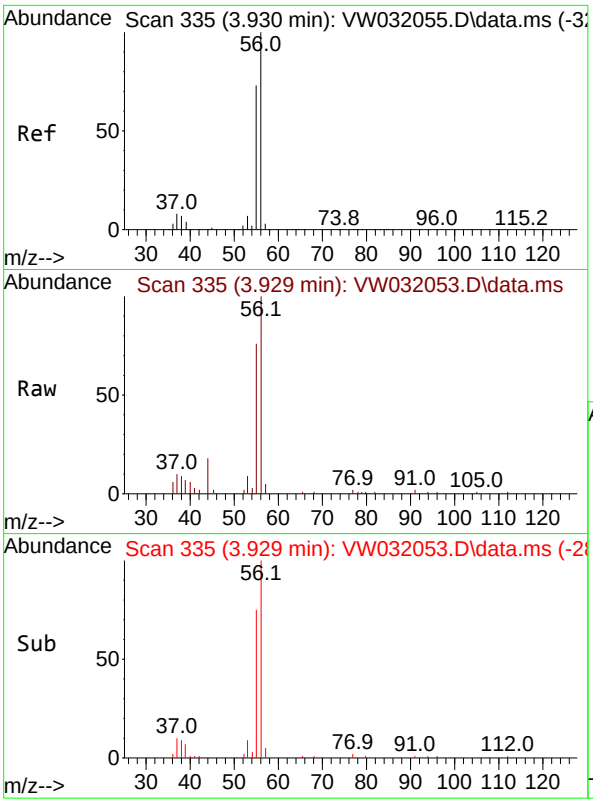



#12
1,1-Dichloroethene
Concen: 10.231 ug/l
RT: 4.082 min Scan# 360
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 96 Resp: 27944

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 153.3 | 123.4 | 185.2 |
| 98 | 62.7 | 49.5 | 74.3 |

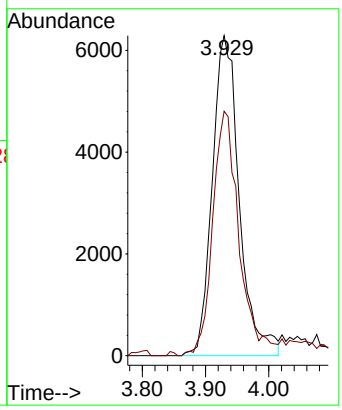





#13
Acrolein
Concen: 55.493 ug/l
RT: 3.929 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 56 Resp: 1865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 74.5 | 55.4 | 83.2 |

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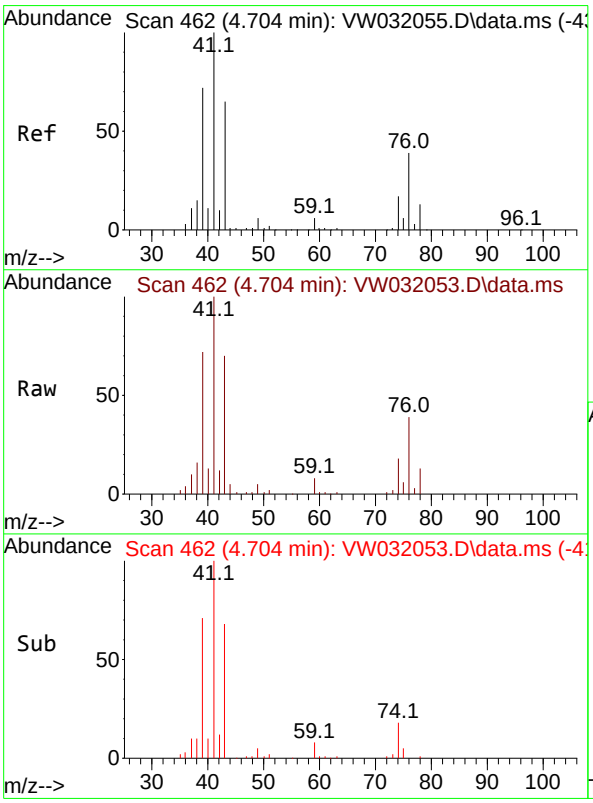
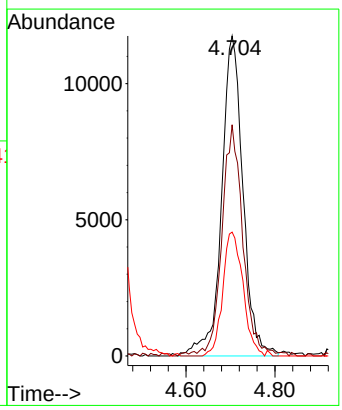
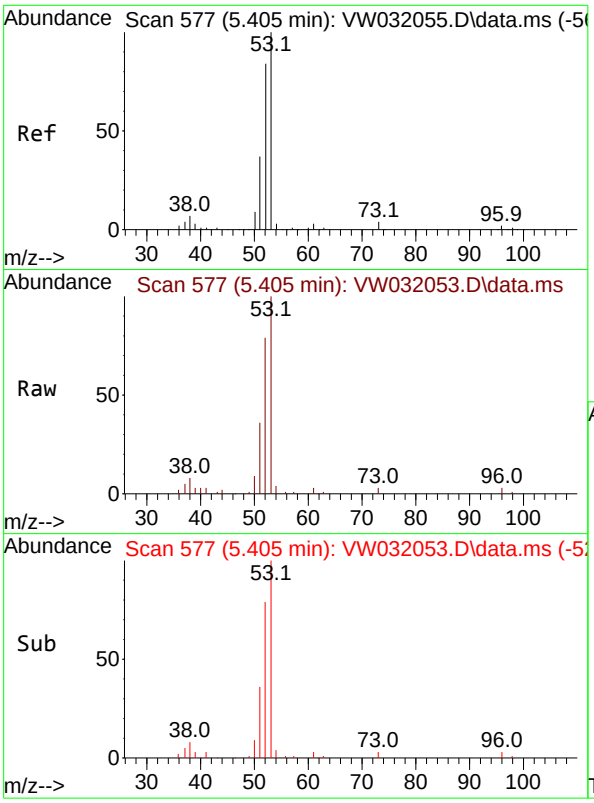



#14
Allyl chloride
Concen: 9.839 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 41 Resp: 39114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 68.2 | 54.5 | 81.7 |
| 76 | 36.6 | 29.3 | 43.9 |

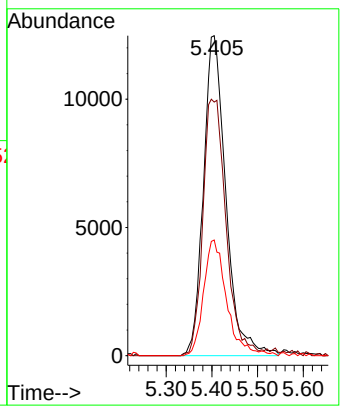





#15
Acrylonitrile
Concen: 51.842 ug/l
RT: 5.405 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 53 Resp: 4253

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.5 | 66.1 | 99.1 |
| 51 | 37.3 | 29.2 | 43.8 |

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VSTDICC010

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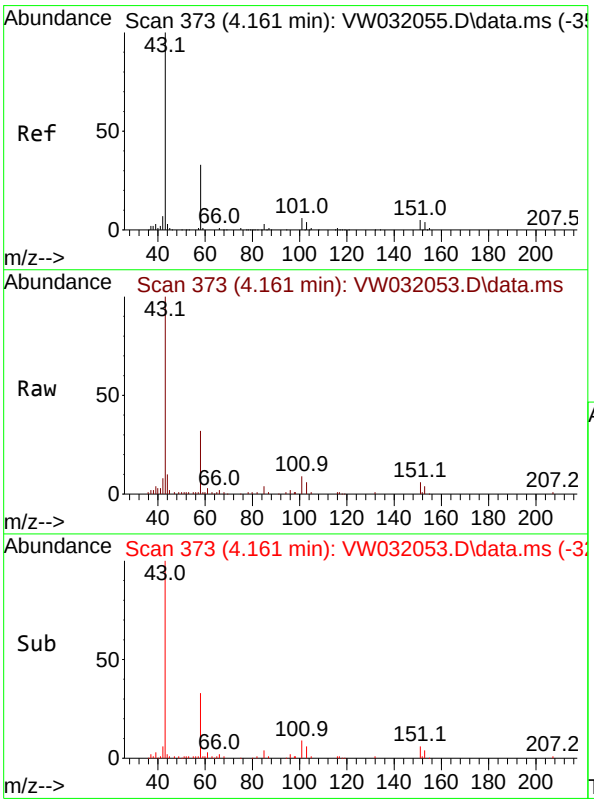
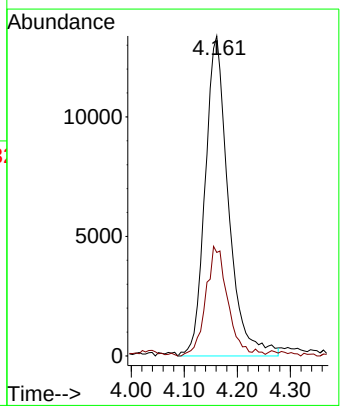
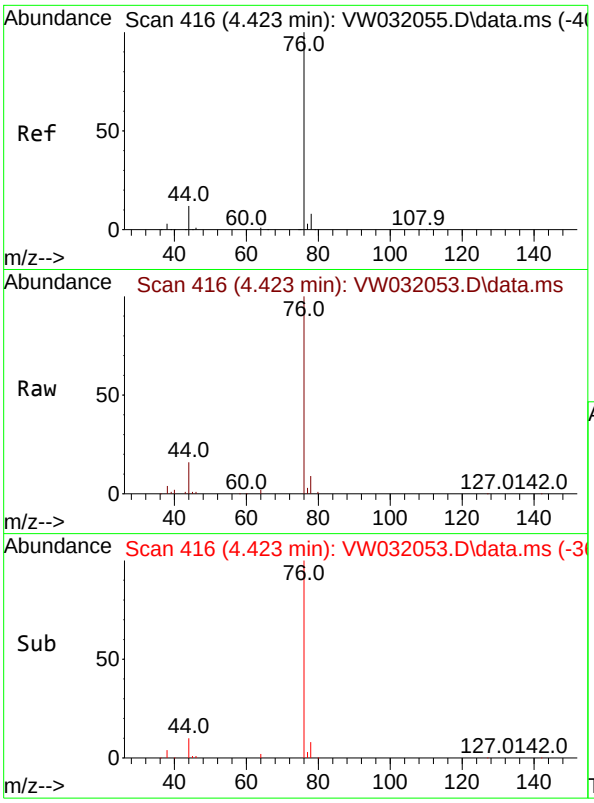



#16
Acetone
Concen: 54.122 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 43 Resp: 40816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.4 | 26.6 | 39.8 |

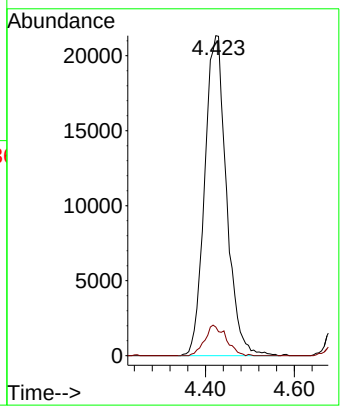





#17
Carbon Disulfide
Concen: 9.931 ug/l
RT: 4.423 min Scan# 4
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 76 Resp: 7280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.0 | 6.4 | 9.6 |

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VSTDICC010

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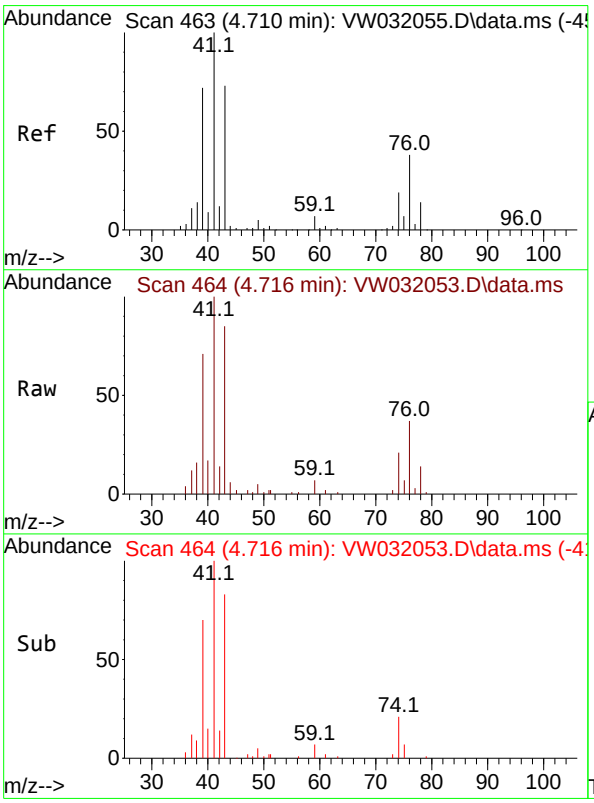
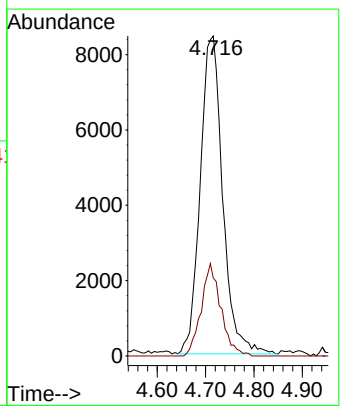
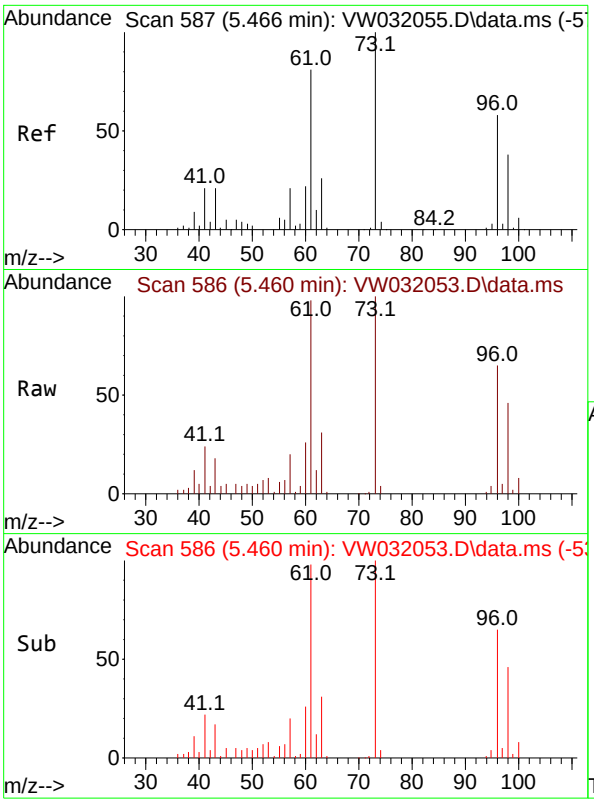



#18
Methyl Acetate
Concen: 11.394 ug/l
RT: 4.716 min Scan# 464
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 43 Resp: 27191

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 25.5 | 20.6 | 31.0 |

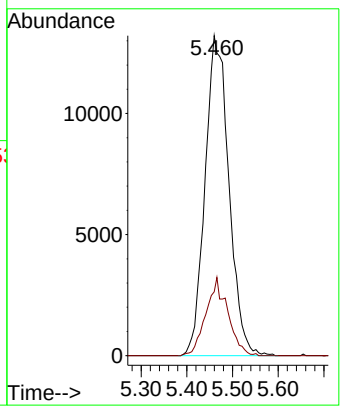





#19
Methyl tert-butyl Ether
Concen: 9.947 ug/l
RT: 5.460 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 73 Resp: 4787

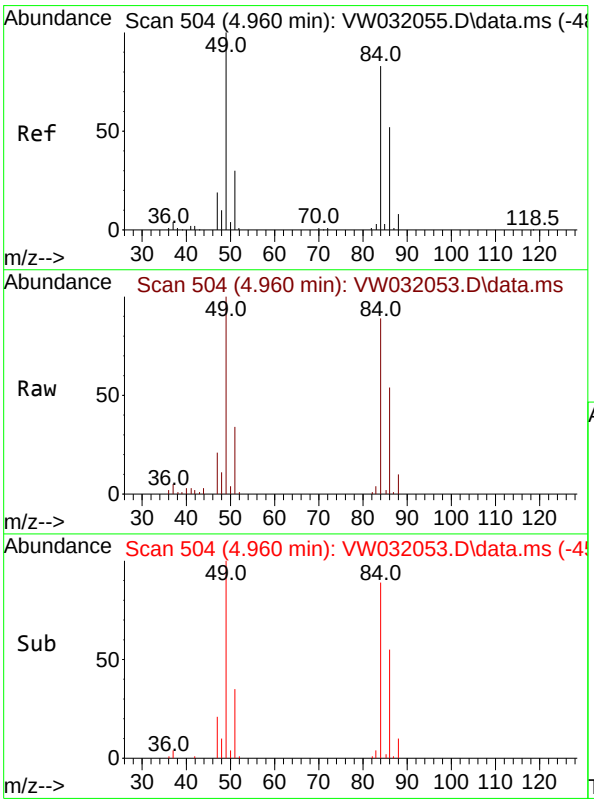
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 20.0 | 17.2 | 25.8 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

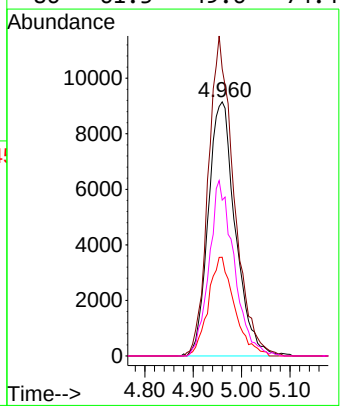
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

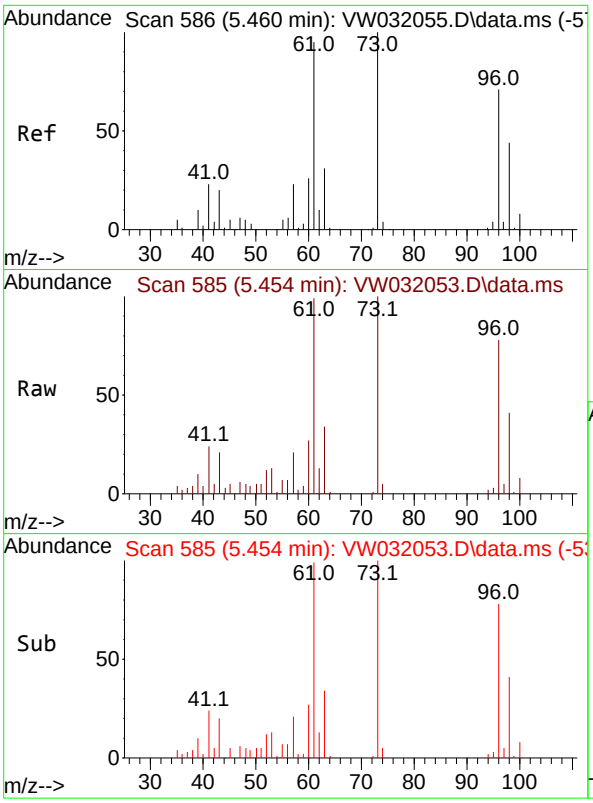



#20
Methylene Chloride
Concen: 10.170 ug/l
RT: 4.960 min Scan# 504
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 84 Resp: 35462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 113.0 | 95.9 | 143.9 |
| 51 | 38.9 | 28.6 | 43.0 |
| 86 | 61.3 | 49.6 | 74.4 |

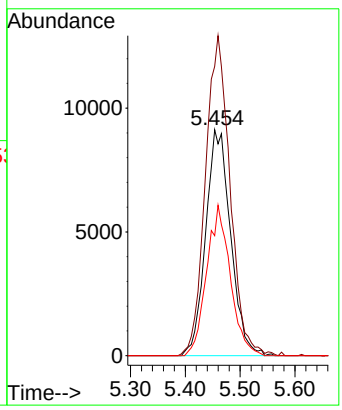





#21
trans-1,2-Dichloroethene
Concen: 9.962 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 96 Resp: 2887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 128.0 | 106.8 | 160.2 |
| 98 | 53.2 | 49.6 | 74.4 |

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**Manual Integrations**
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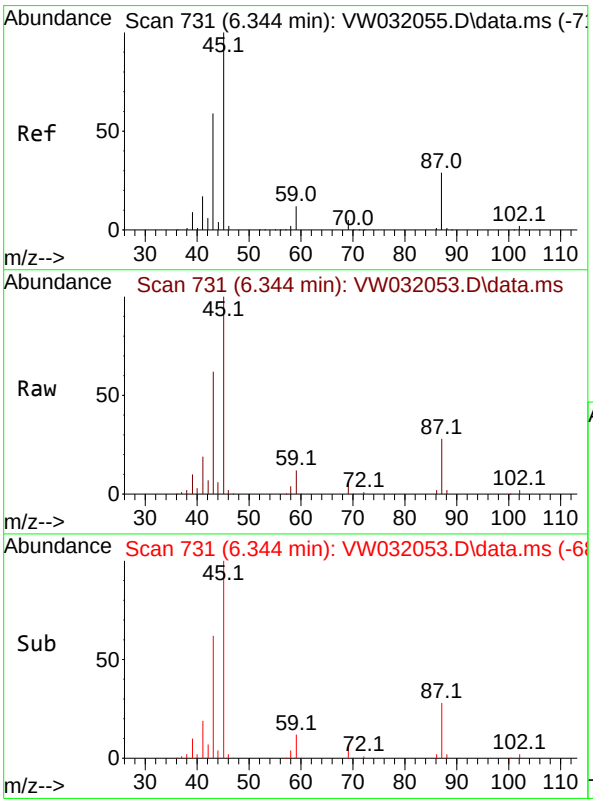
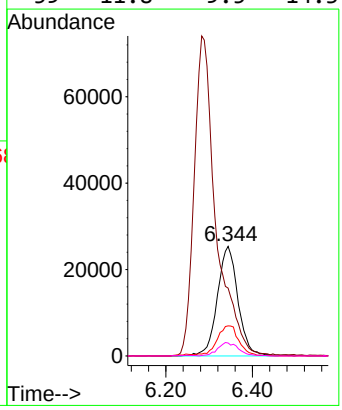
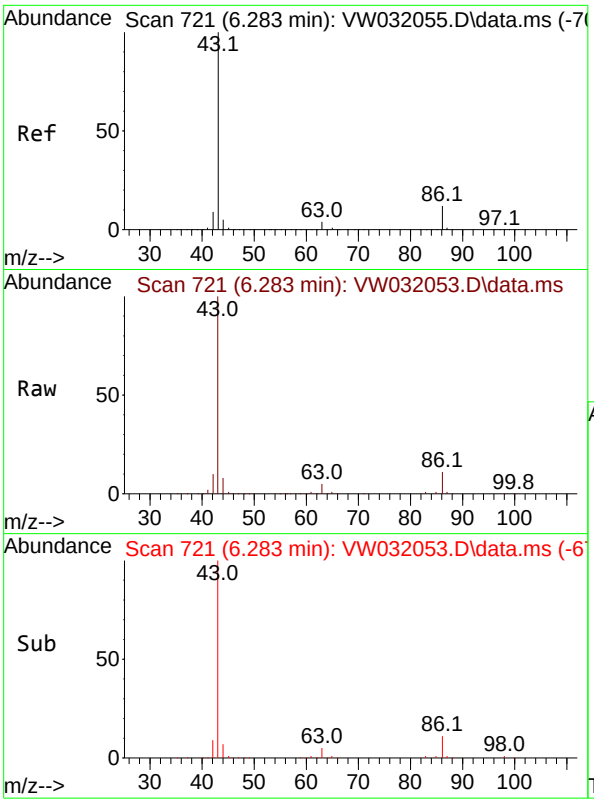



#22
Diisopropyl ether
Concen: 10.029 ug/l
RT: 6.344 min Scan# 731
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 45 Resp: 84045

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 61.0 | 47.0 | 70.4 |
| 87 | 27.5 | 23.8 | 35.8 |
| 59 | 11.8 | 9.5 | 14.3 |






#23
Vinyl Acetate
Concen: 47.081 ug/l
RT: 6.283 min Scan# 7
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 43 Resp: 25905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.2 | 9.4 | 14.0 |

**Instrument :**
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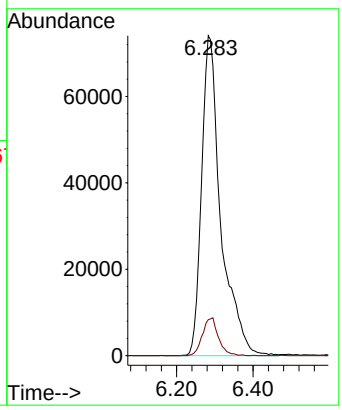
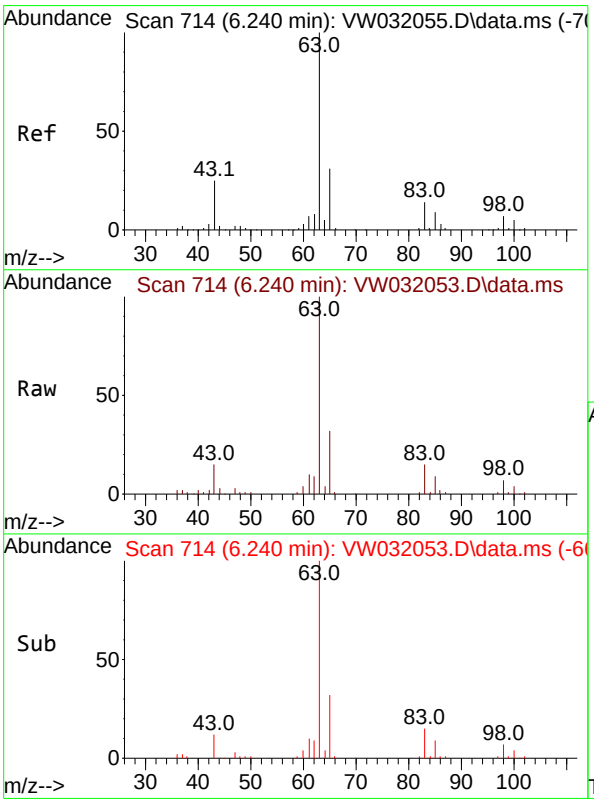
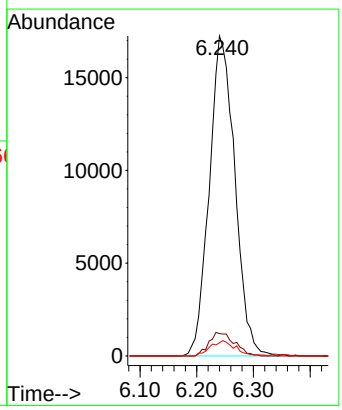


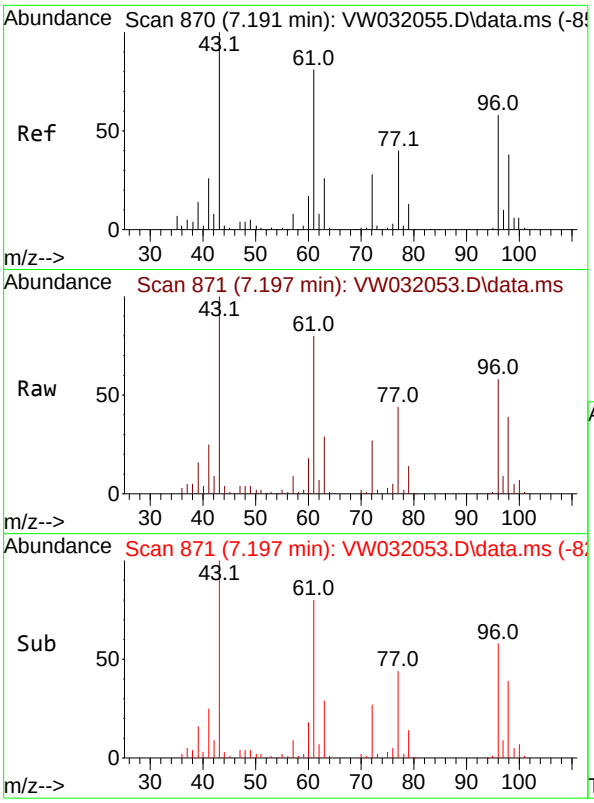




#24
1,1-Dichloroethane
Concen: 10.095 ug/l
RT: 6.240 min Scan# 714
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 63 Resp: 54051

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.0 | 3.7 | 11.1 |
| 100 | 4.1 | 2.5 | 7.4 |

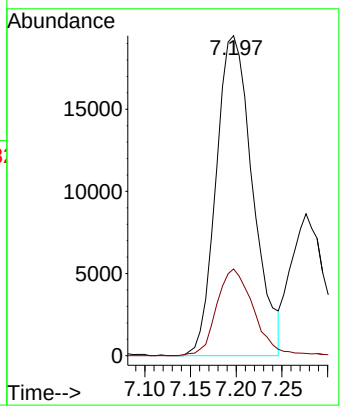





#25
2-Butanone
Concen: 50.685 ug/l
RT: 7.197 min Scan# 8
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 43 Resp: 5432

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 27.1 | 22.3 | 33.5 |




**Instrument :**
MSVOA_W
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VSTDICC010

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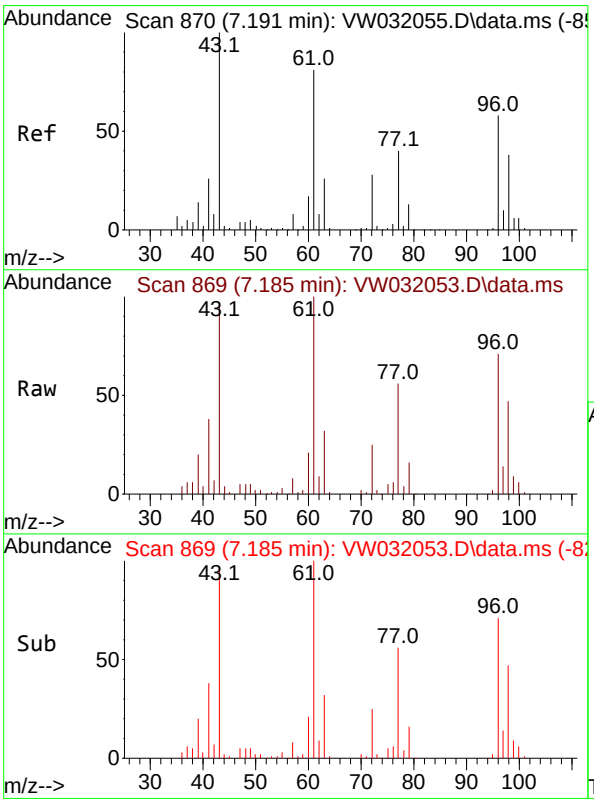
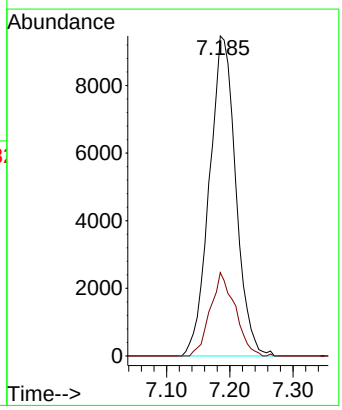
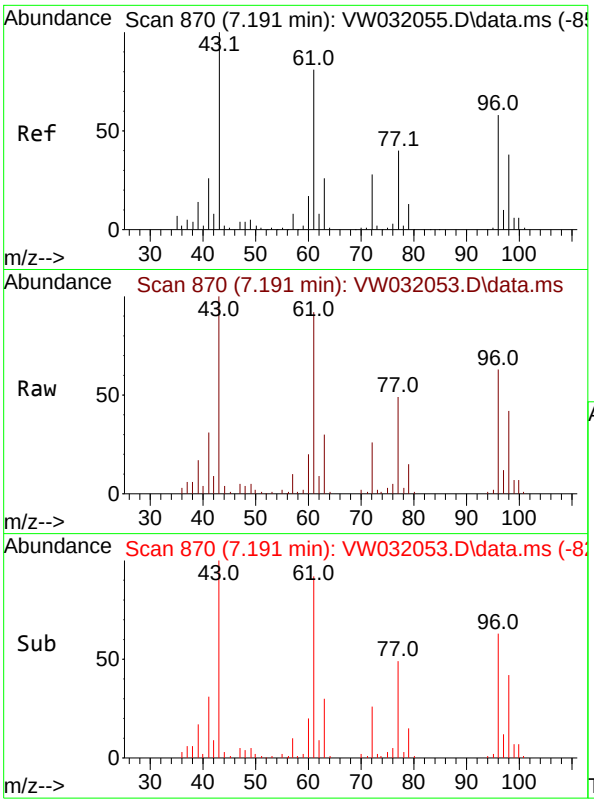



#26
2,2-Dichloropropane
Concen: 10.224 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 77 Resp: 27463

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 24.5 | 12.3 | 36.9 |

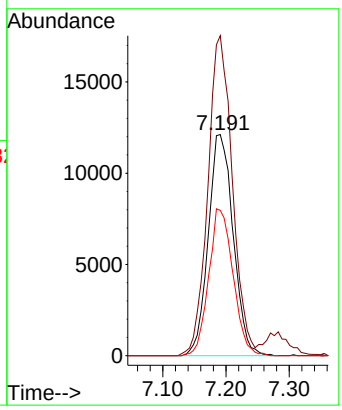





#27
cis-1,2-Dichloroethene
Concen: 9.791 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 96 Resp: 3317

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 142.3 | 0.0 | 281.2 |
| 98 | 64.9 | 0.0 | 130.8 |

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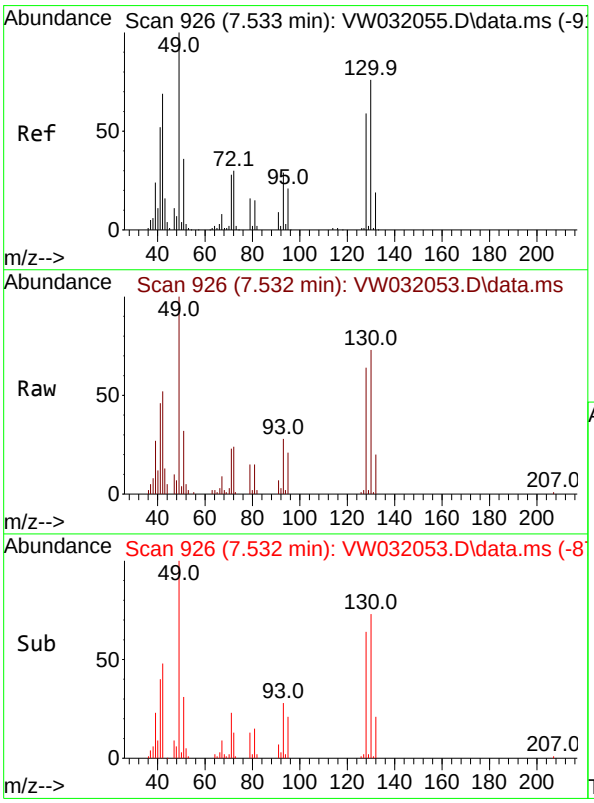
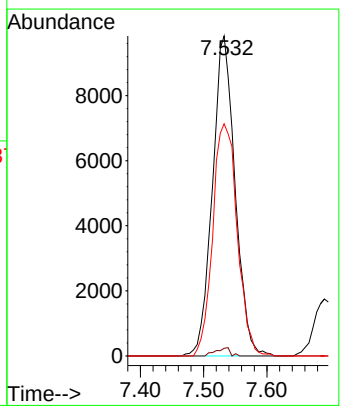
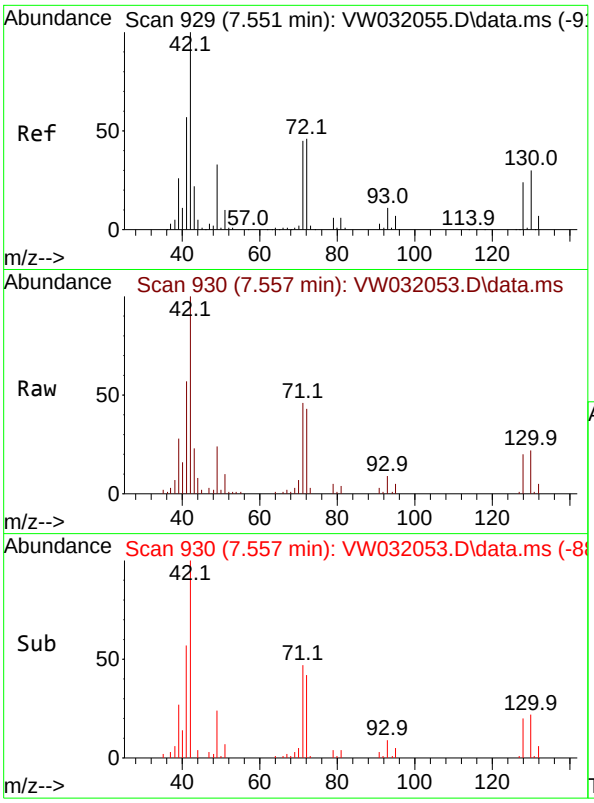



#28
Bromochloromethane
Concen: 10.019 ug/l
RT: 7.532 min Scan# 926
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 49 Resp: 24412

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.6 | 0.0 | 4.2 |
| 130 | 78.2 | 61.9 | 92.9 |

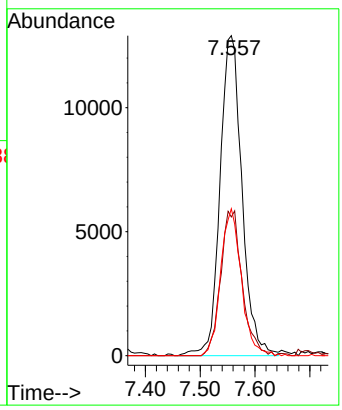





#29
Tetrahydrofuran
Concen: 50.800 ug/l
RT: 7.557 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 42 Resp: 3590

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 44.5 | 36.6 | 55.0 |
| 71 | 43.3 | 34.7 | 52.1 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

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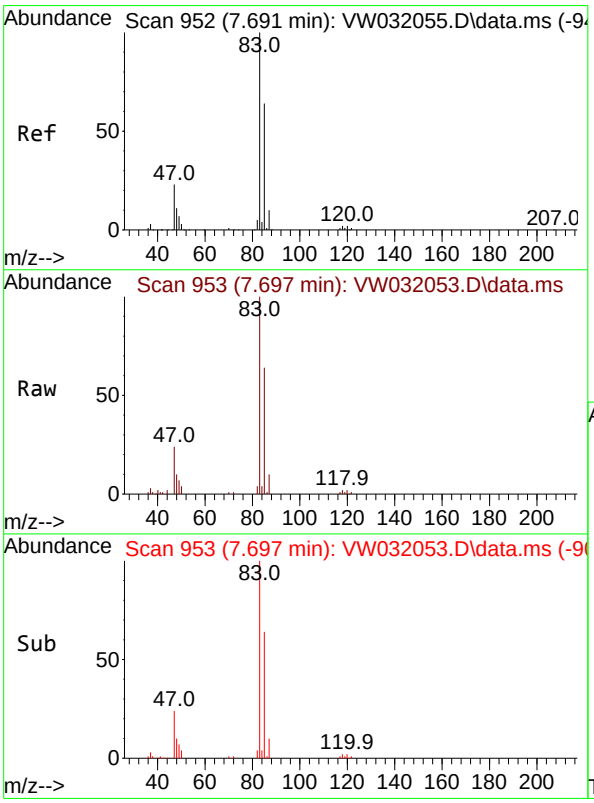
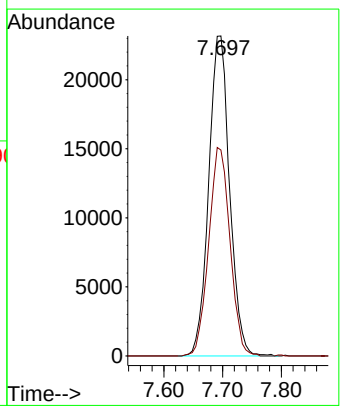
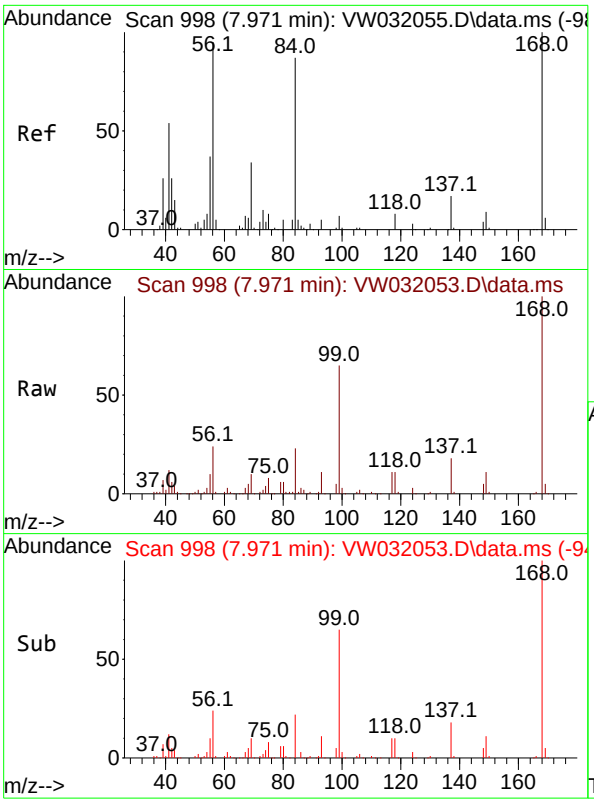



#30
Chloroform
Concen: 10.071 ug/l
RT: 7.697 min Scan# 953
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 83 Resp: 57170

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.3 | 51.0 | 76.4 |

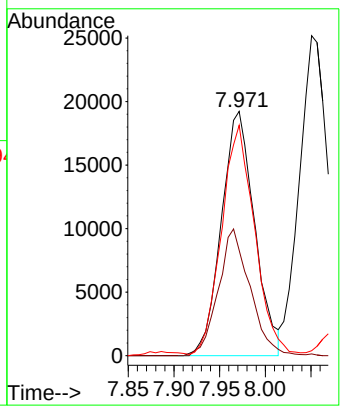





#31
Cyclohexane
Concen: 10.477 ug/l
RT: 7.971 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 56 Resp: 4863

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 43.1 | 28.6 | 42.8 |
| 84 | 93.2 | 73.0 | 109.4 |

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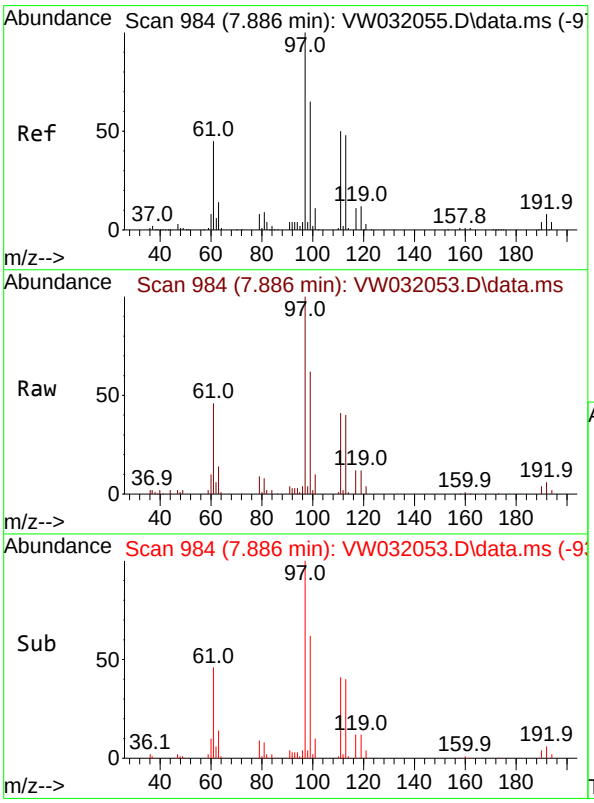
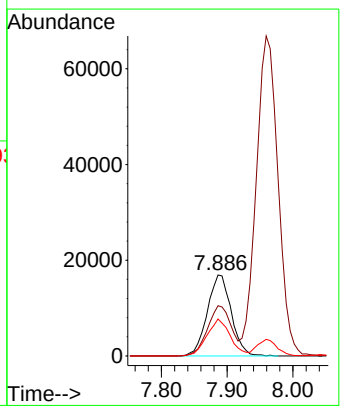
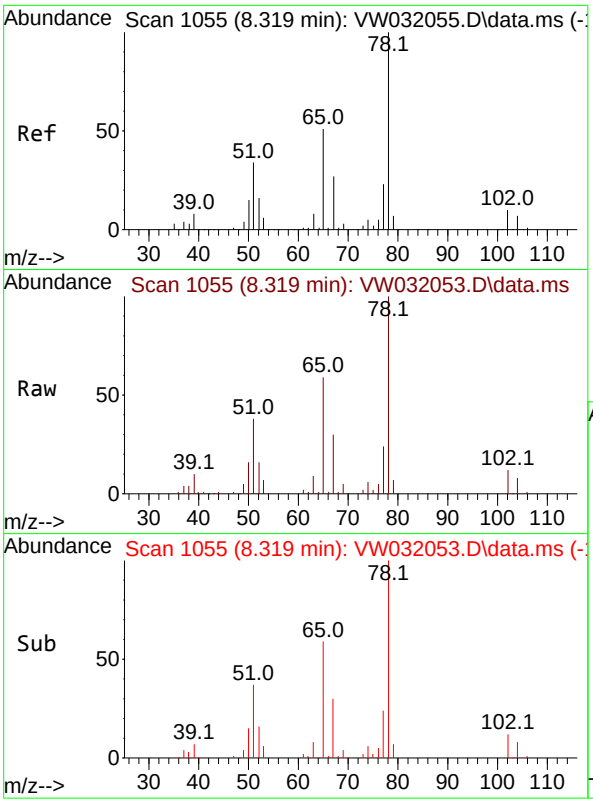



#32
1,1,1-Trichloroethane
Concen: 10.368 ug/l
RT: 7.886 min Scan# 984
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 97 Resp: 42747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 61.1 | 51.8 | 77.8 |
| 61 | 45.0 | 35.9 | 53.9 |

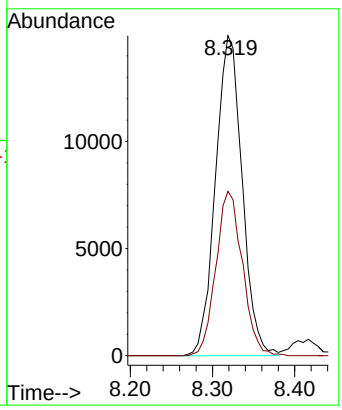





#33
1,2-Dichloroethane-d4
Concen: 10.337 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 65 Resp: 3367

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.0 | 0.0 | 102.4 |

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MSVOA_W
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VSTDICC010

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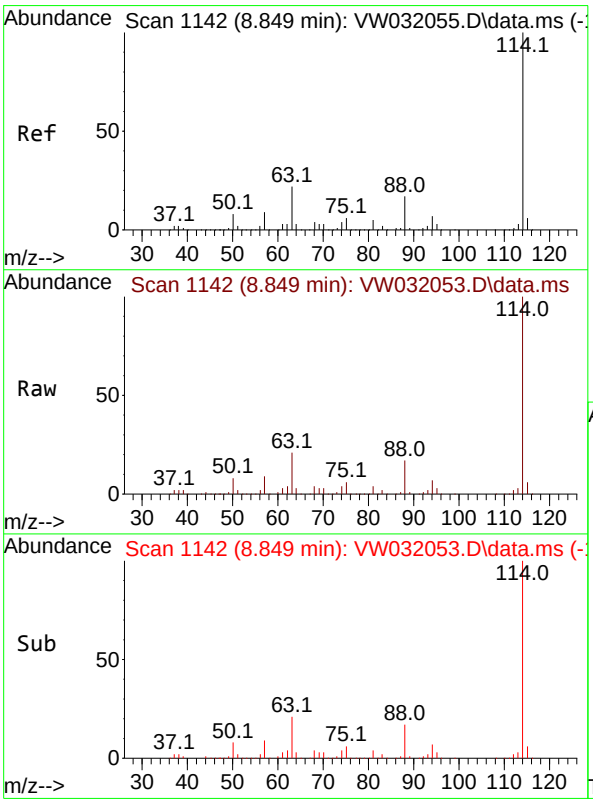
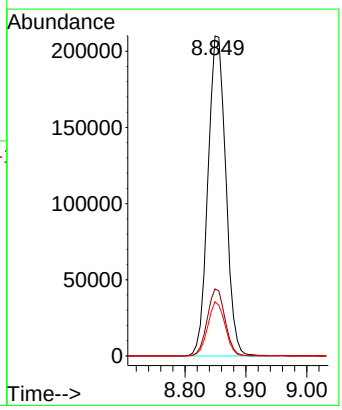
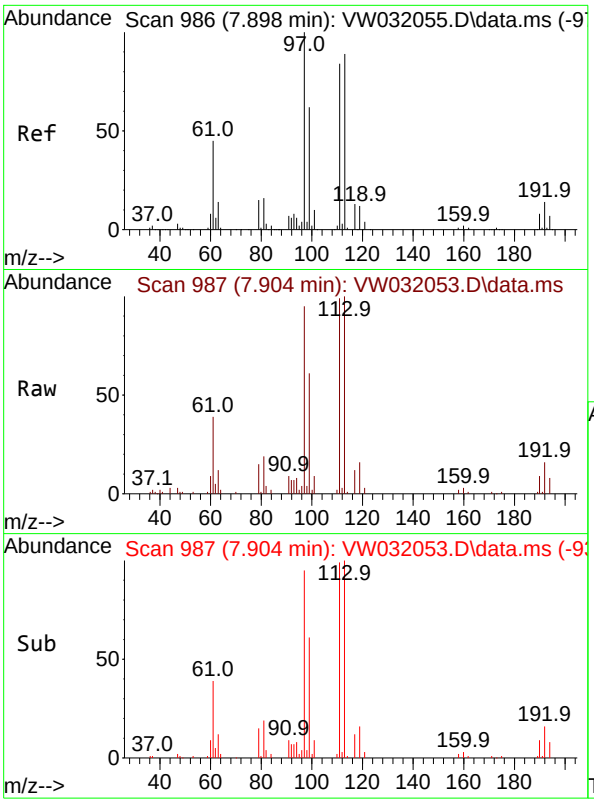



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:114 Resp: 426784

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.0 | 0.0 | 43.0 |
| 88 | 17.0 | 0.0 | 33.8 |

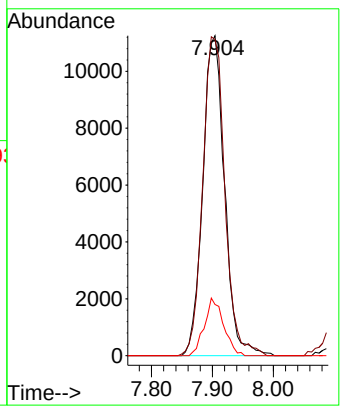





#35
Dibromofluoromethane
Concen: 10.147 ug/l
RT: 7.904 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:113 Resp: 2797

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.3 | 80.1 | 120.1 |
| 192 | 15.8 | 13.1 | 19.7 |

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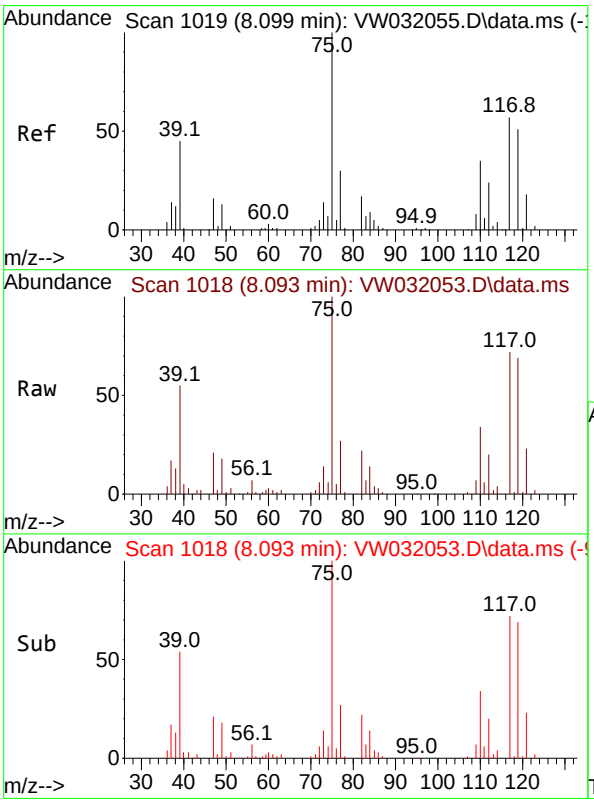
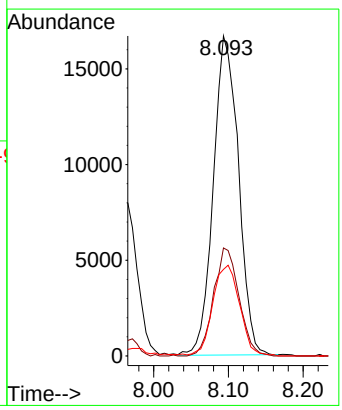
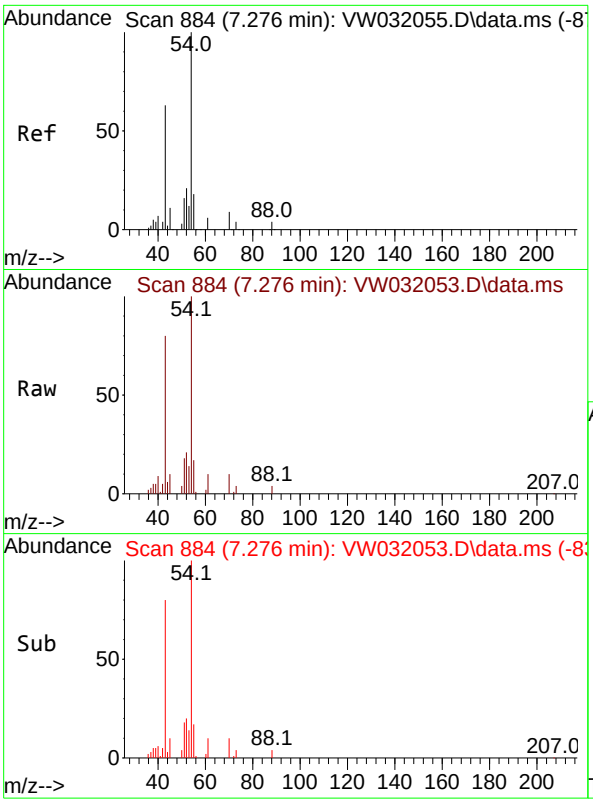



#36
1,1-Dichloropropene
Concen: 10.032 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 75 Resp: 38994

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 34.1 | 17.4 | 52.2 |
| 77 | 30.6 | 24.7 | 37.1 |






#37
Ethyl Acetate
Concen: 10.070 ug/l
RT: 7.276 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

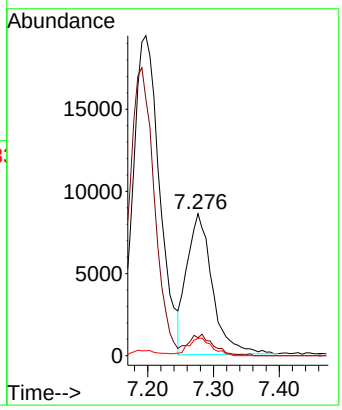
Tgt Ion: 43 Resp: 2305

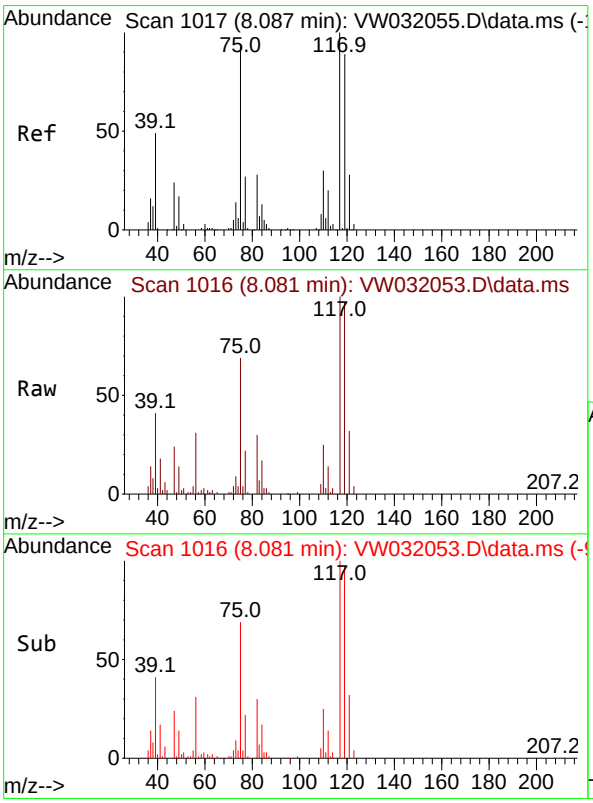
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 11.8 | 11.8 | 17.6 |
| 70 | 11.8 | 9.4 | 14.0 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

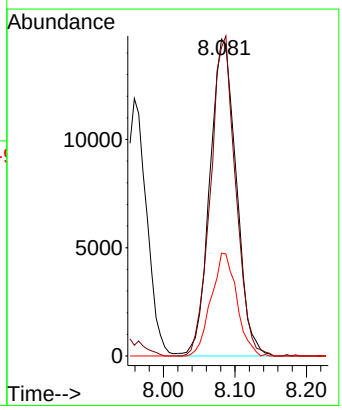


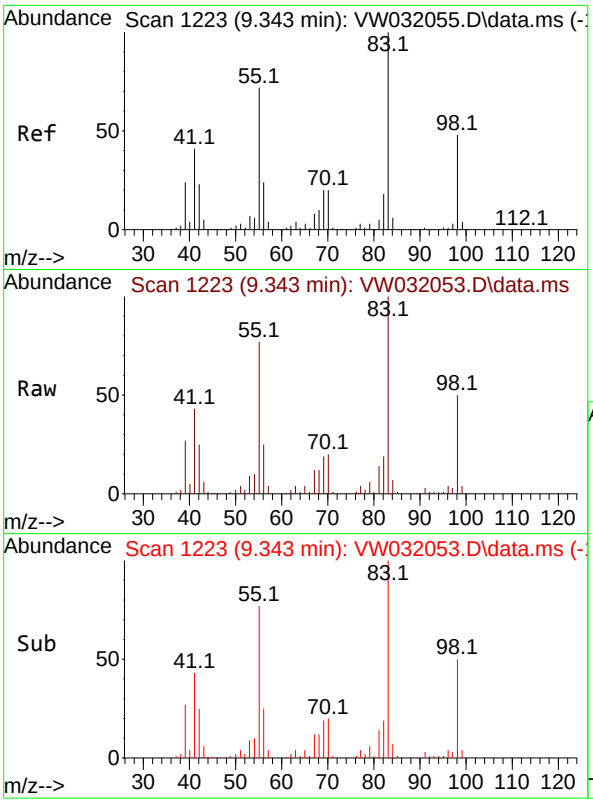




#38
Carbon Tetrachloride
Concen: 10.007 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:117 Resp: 37535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 97.5 | 71.4 | 107.2 |
| 121 | 32.5 | 22.3 | 33.5 |

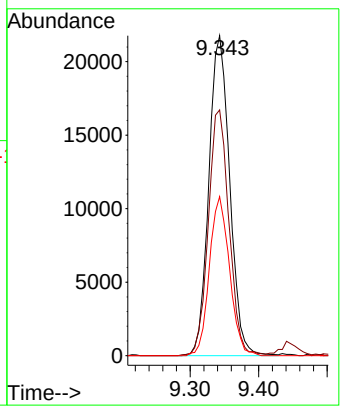





#39
Methylcyclohexane
Concen: 9.731 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 83 Resp: 4610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 76.8 | 57.9 | 86.9 |
| 98 | 49.7 | 38.3 | 57.5 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
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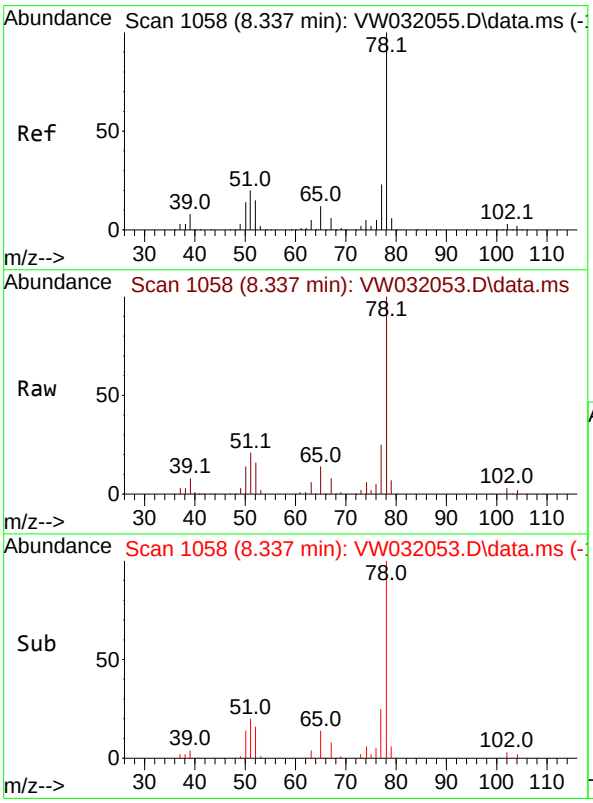
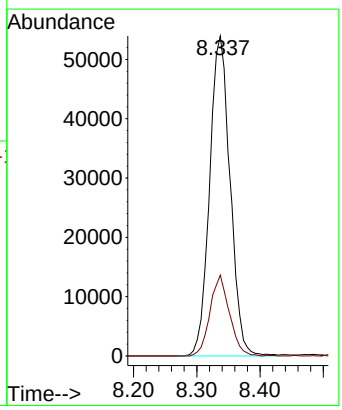
Supervised By :Semsettin Yesilyurt 08/12/2025

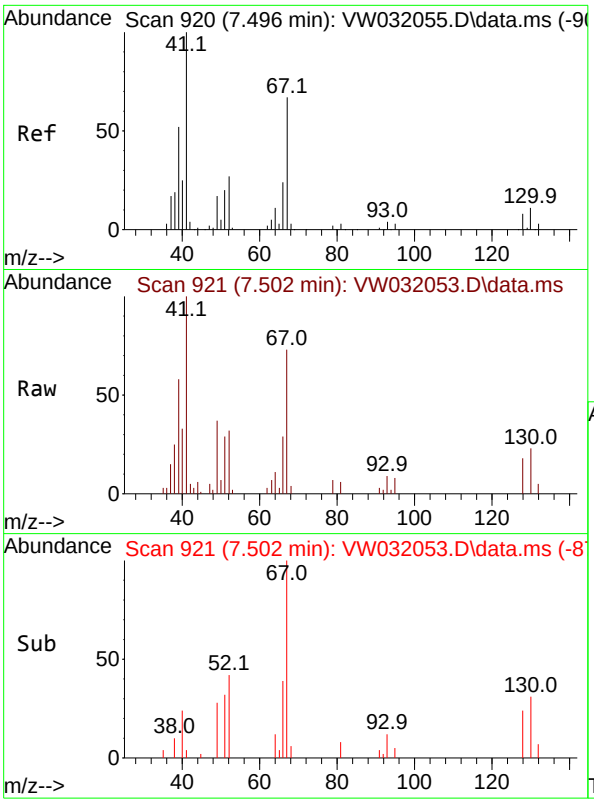



#40
Benzene
Concen: 10.053 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 78 Resp: 121462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 25.3 | 18.4 | 27.6 |

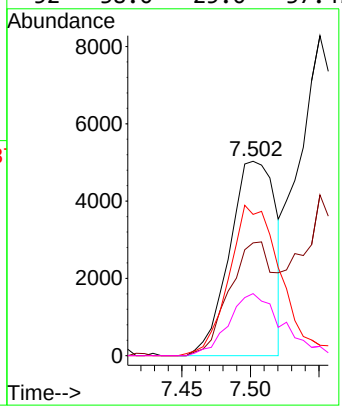





#41
Methacrylonitrile
Concen: 9.035 ug/l
RT: 7.502 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 41 Resp: 1172

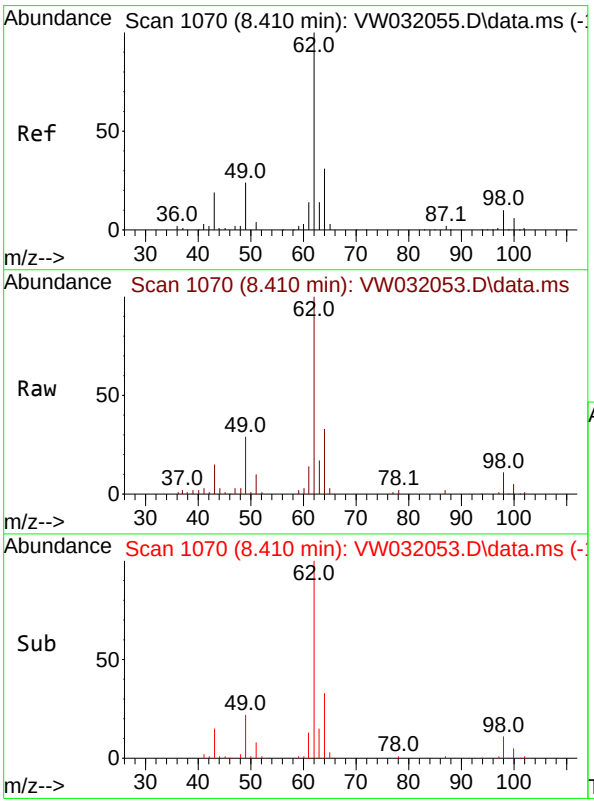
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 57.4 | 42.6 | 63.8 |
| 67 | 87.3 | 61.0 | 91.4 |
| 52 | 38.0 | 25.0 | 37.4# |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

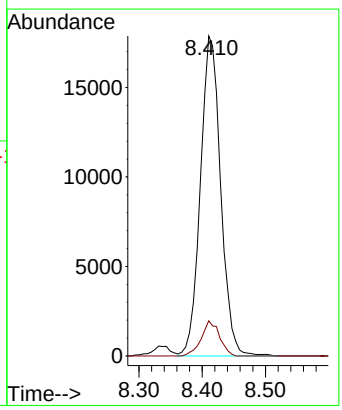
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

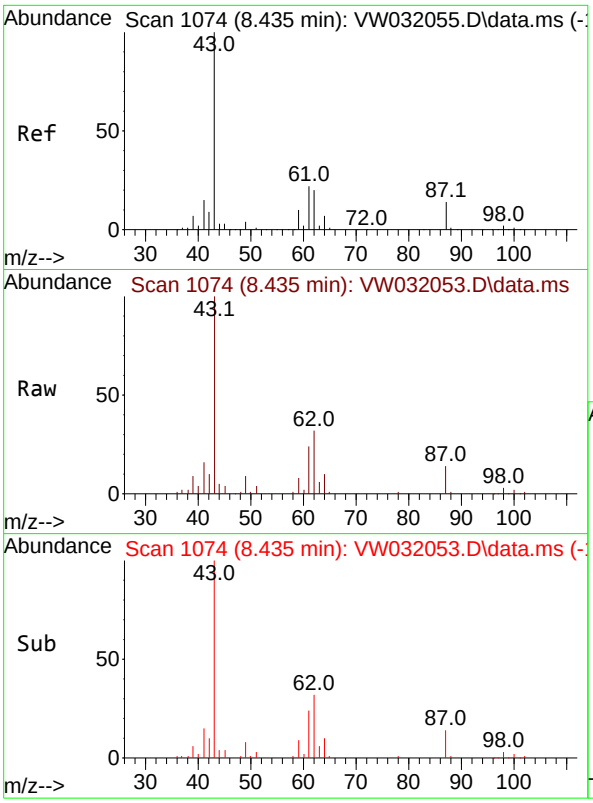



#42
1,2-Dichloroethane
Concen: 10.316 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 62 Resp: 39882

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.9 | 0.0 | 19.8 |






#43
Isopropyl Acetate
Concen: 9.743 ug/l
RT: 8.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 43 Resp: 4103

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 30.5 | 23.8 | 35.8 |
| 87 | 13.7 | 11.7 | 17.5 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

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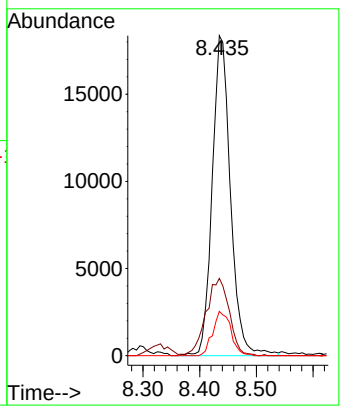
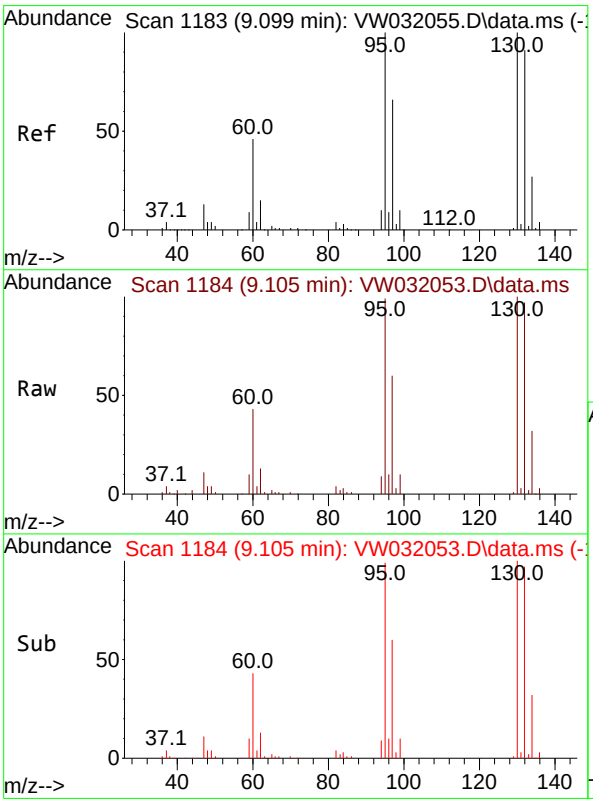
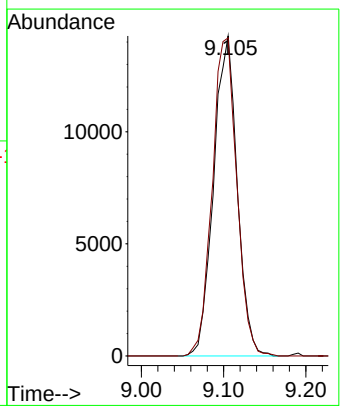


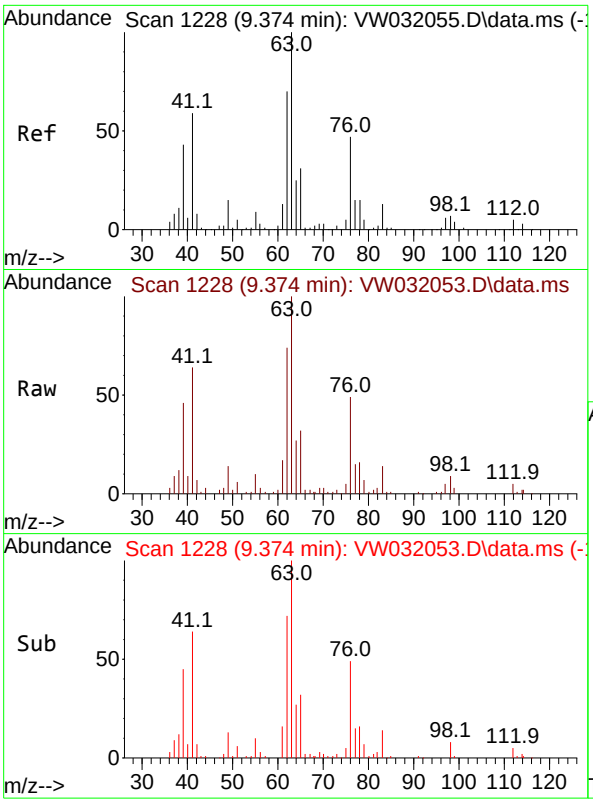




#44
Trichloroethene
Concen: 9.905 ug/l
RT: 9.105 min Scan# 1184
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:130 Resp: 28498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 99.4 | 0.0 | 200.6 |

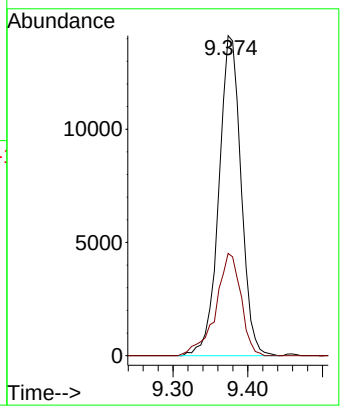





#45
1,2-Dichloropropane
Concen: 10.004 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 63 Resp: 2919

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.9 | 24.6 | 36.8 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
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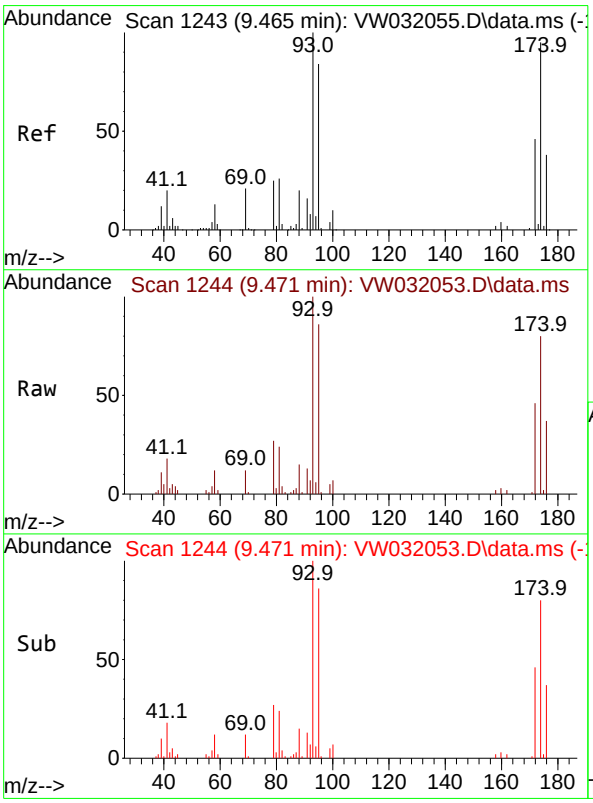
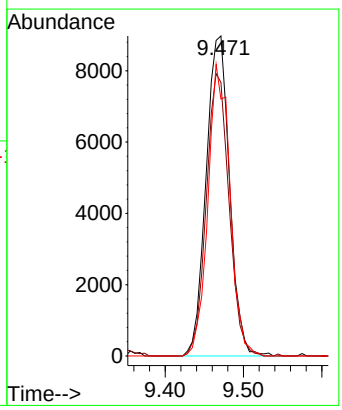
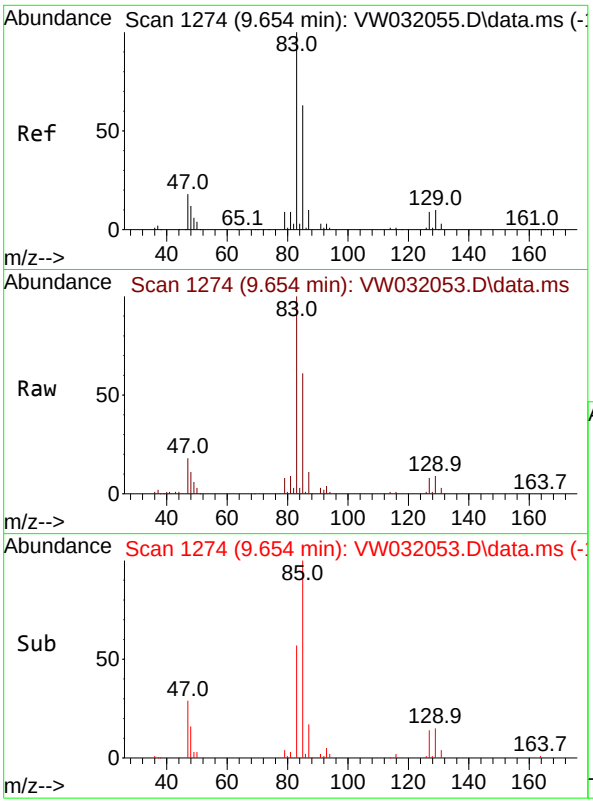



#46
Dibromomethane
Concen: 9.901 ug/l
RT: 9.471 min Scan# 1244
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 93 Resp: 18653

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 85.8 | 65.3 | 97.9 |
| 174 | 85.7 | 68.6 | 102.8 |

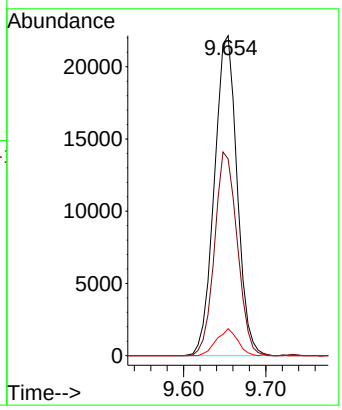





#47
Bromodichloromethane
Concen: 9.818 ug/l
RT: 9.654 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 83 Resp: 4261

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 61.5 | 50.6 | 75.8 |
| 127 | 8.5 | 6.9 | 10.3 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
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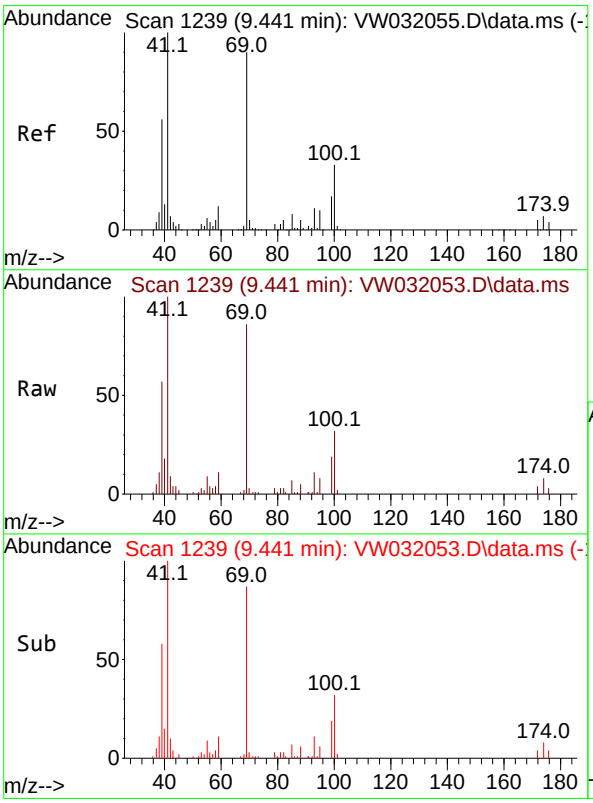
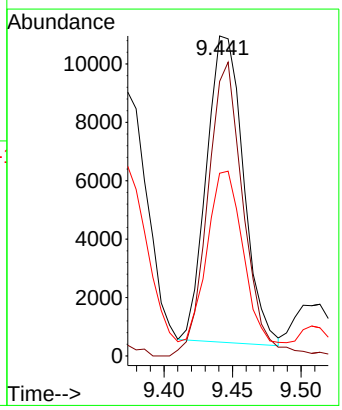
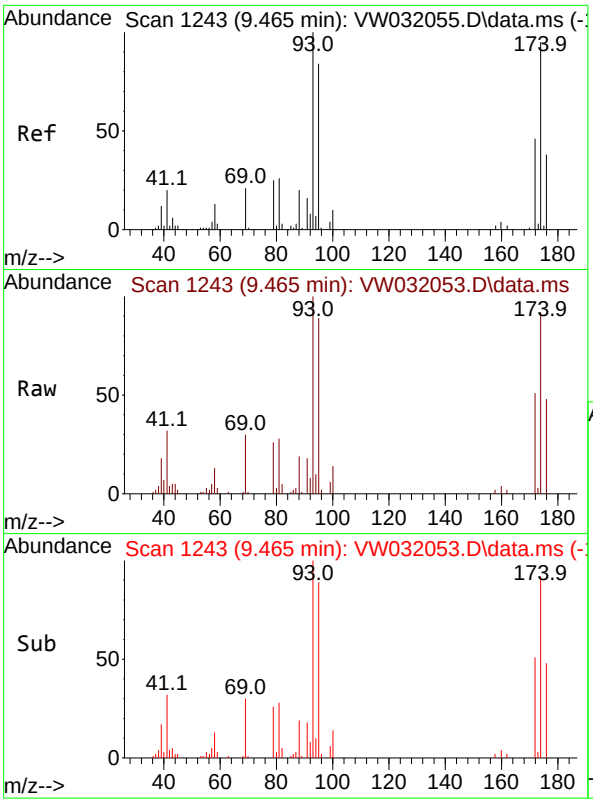



#48
Methyl methacrylate
Concen: 9.666 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 41 Resp: 19654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 92.9 | 73.0 | 109.6 |
| 39 | 55.1 | 45.0 | 67.4 |

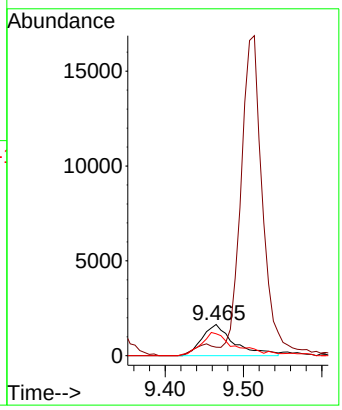





#49
1,4-Dioxane
Concen: 192.302 ug/l
RT: 9.465 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 88 Resp: 468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 27.6 | 20.6 | 30.8 |
| 58 | 75.1 | 60.4 | 90.6 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

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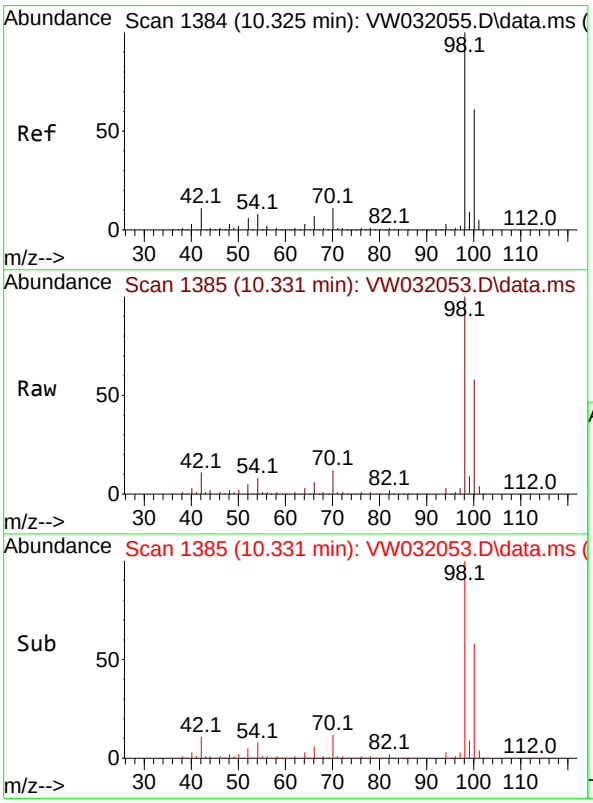
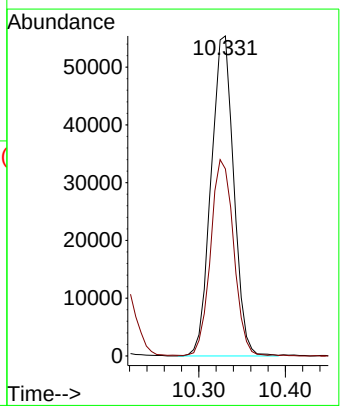
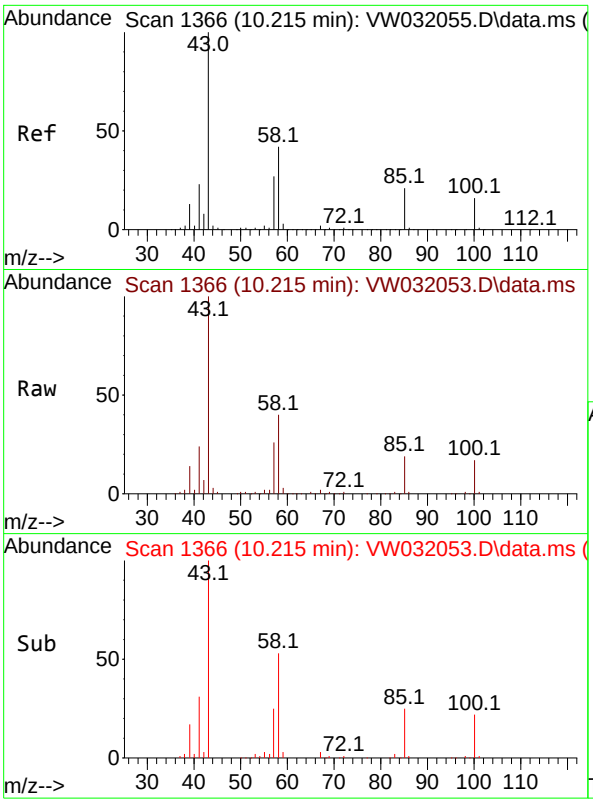



#50
Toluene-d8
Concen: 9.875 ug/l
RT: 10.331 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 98 Resp: 100702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 62.7 | 51.1 | 76.7 |






#51
4-Methyl-2-Pentanone
Concen: 51.075 ug/l
RT: 10.215 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 43 Resp: 12141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 40.7 | 33.1 | 49.7 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
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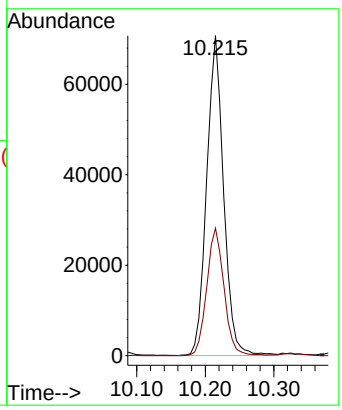
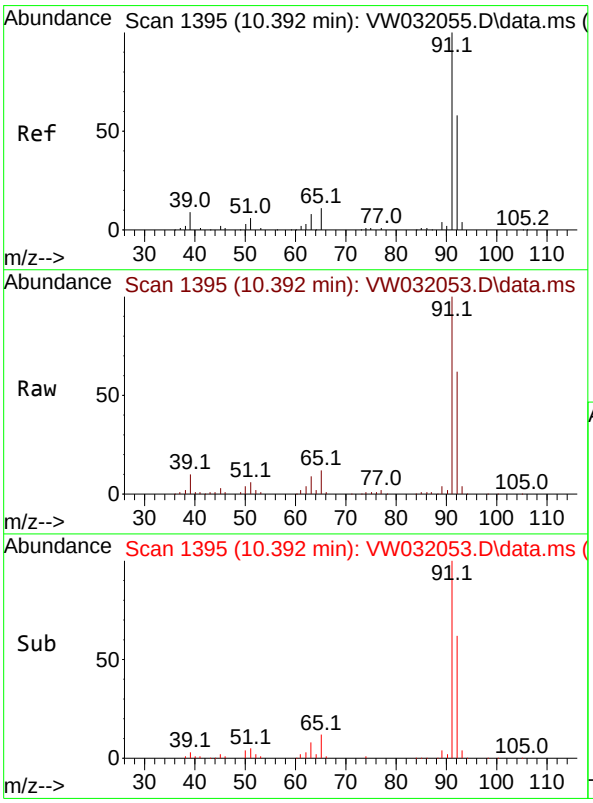
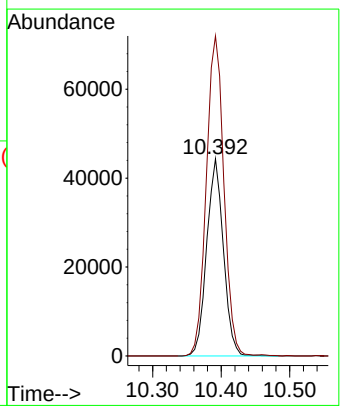


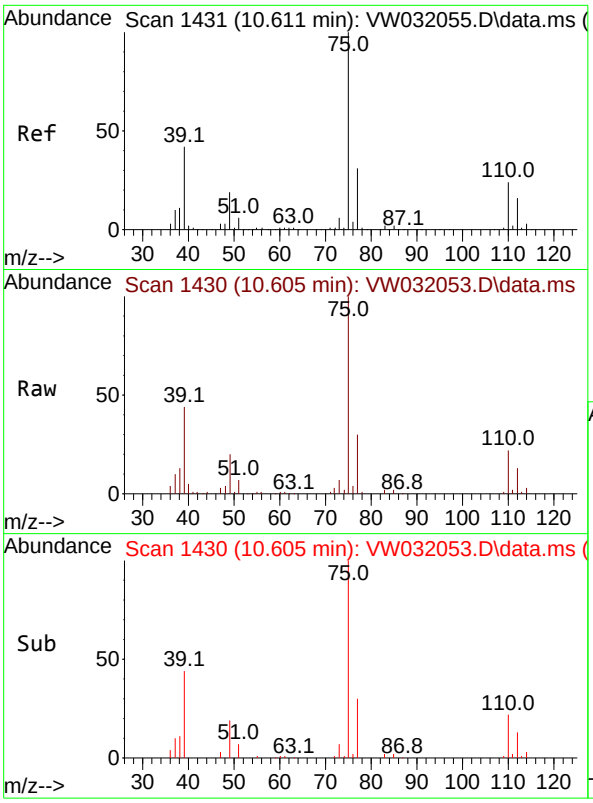




#52
Toluene
Concen: 9.888 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 92 Resp: 75250

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 170.3 | 136.3 | 204.5 |

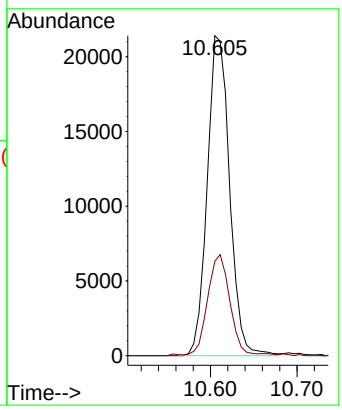





#53
t-1,3-Dichloropropene
Concen: 9.441 ug/l
RT: 10.605 min Scan# 14
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 75 Resp: 3839

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 29.2 | 25.0 | 37.6 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

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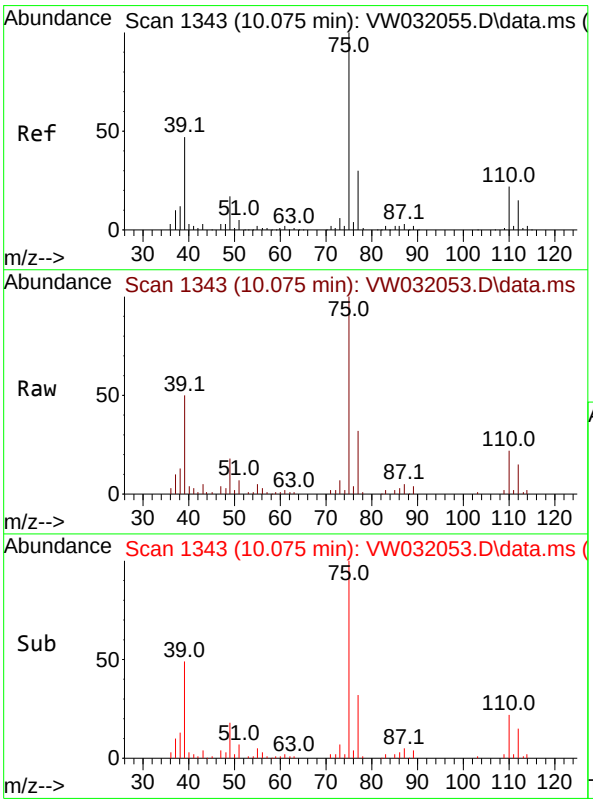
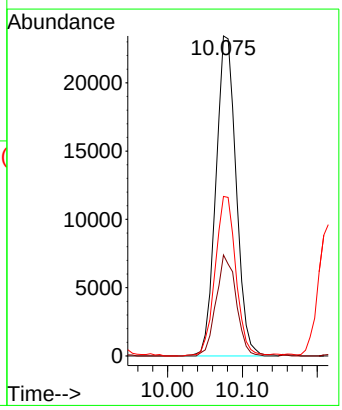
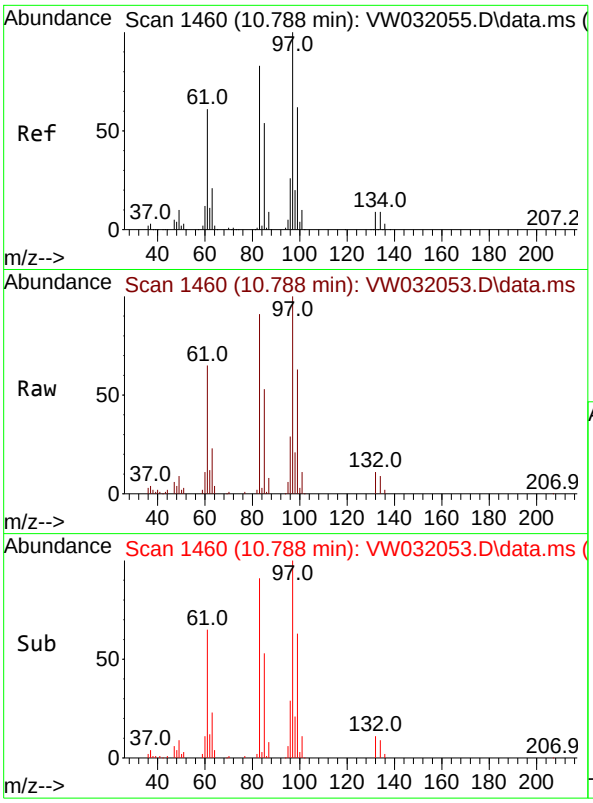



#54
cis-1,3-Dichloropropene
Concen: 9.543 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 75 Resp: 44031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.6 | 24.0 | 36.0 |
| 39 | 49.9 | 37.8 | 56.8 |

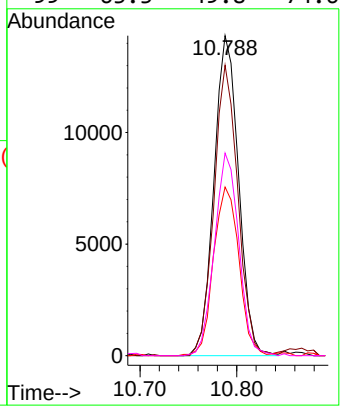





#55
1,1,2-Trichloroethane
Concen: 10.097 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 97 Resp: 2527

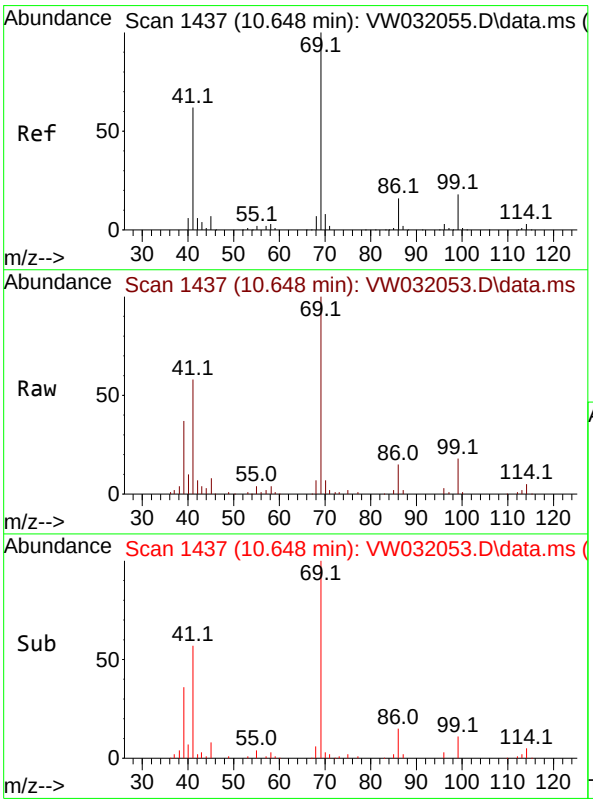
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 90.7 | 66.4 | 99.6 |
| 85 | 52.7 | 43.1 | 64.7 |
| 99 | 63.3 | 49.8 | 74.6 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

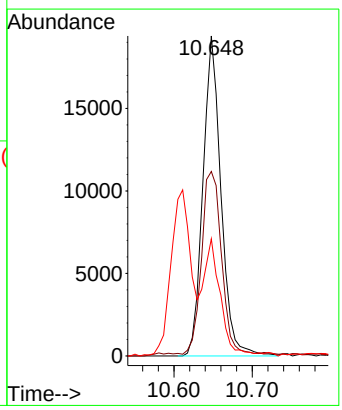
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

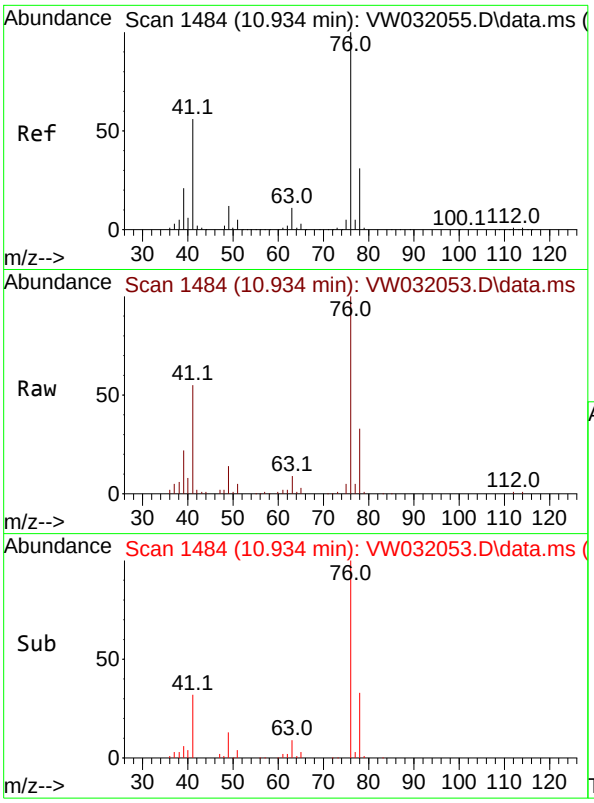



#56
Ethyl methacrylate
Concen: 9.260 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 69 Resp: 31022

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 62.3 | 51.2 | 76.8 |
| 39 | 35.0 | 25.4 | 38.0 |






#57
1,3-Dichloropropane
Concen: 10.254 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 76 Resp: 4474

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 33.2 | 25.8 | 38.6 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
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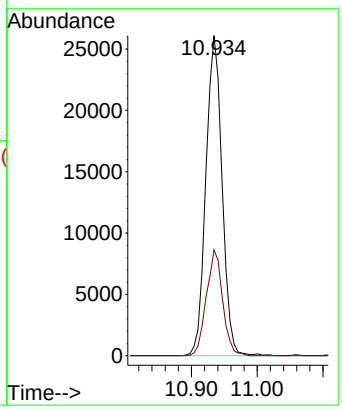
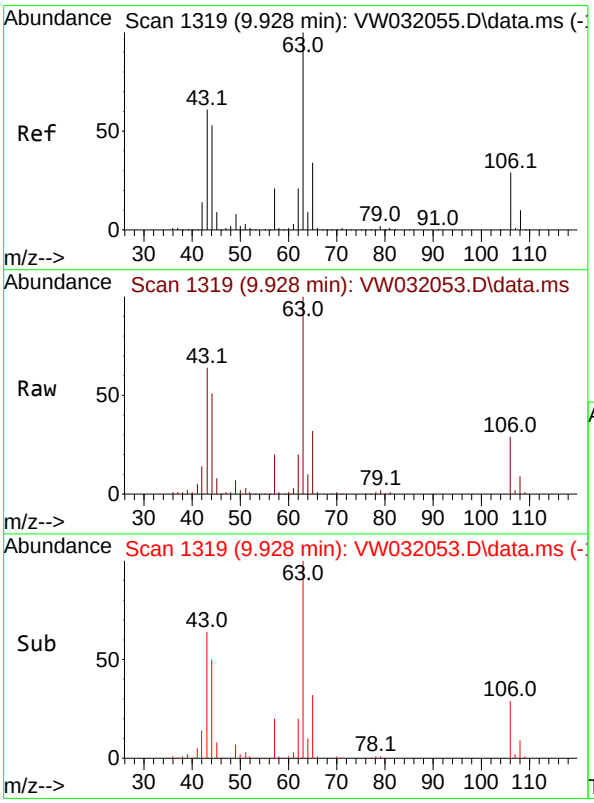
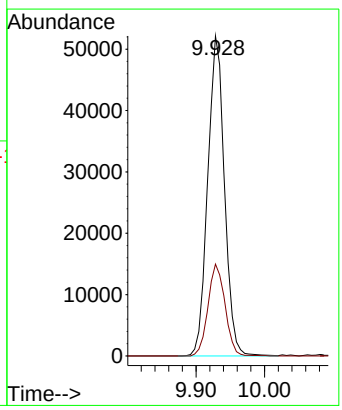


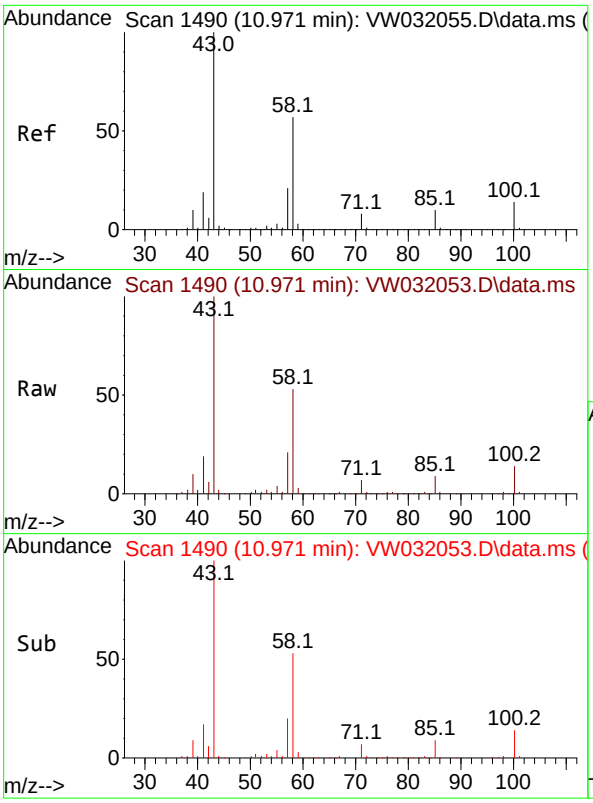




#58
2-Chloroethyl Vinyl ether
Concen: 47.830 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 63 Resp: 88627

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 29.2 | 23.5 | 35.3 |






#59
2-Hexanone
Concen: 50.310 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 43 Resp: 8283

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 54.2 | 28.3 | 85.0 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
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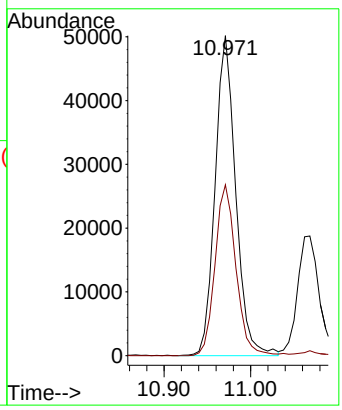
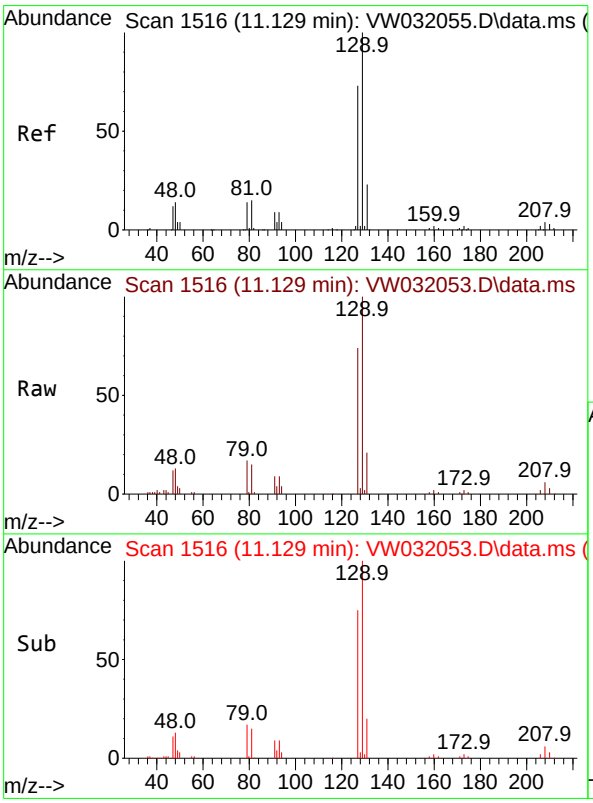
Supervised By :Semsettin Yesilyurt 08/12/2025

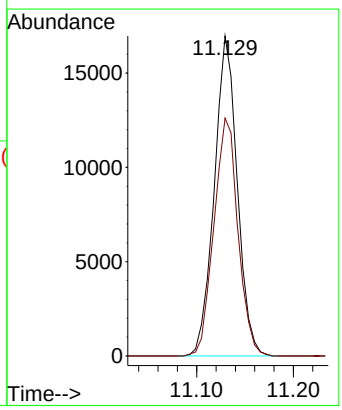


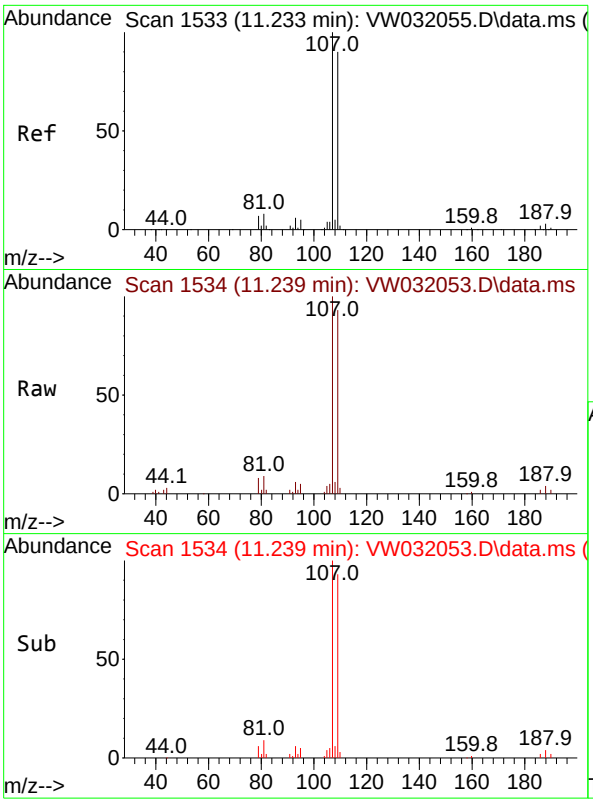




#60
Dibromochloromethane
Concen: 9.776 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:129 Resp: 27954

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.7 | 39.0 | 116.9 |

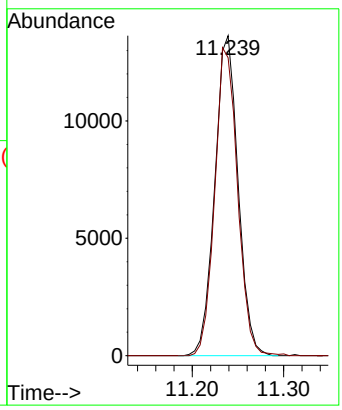





#61
1,2-Dibromoethane
Concen: 9.926 ug/l
RT: 11.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:107 Resp: 2414

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.2 | 74.2 | 111.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
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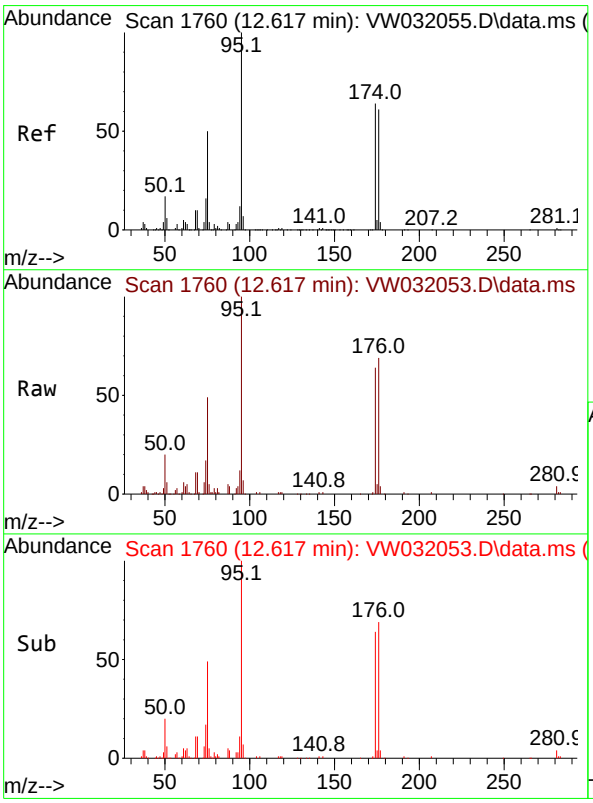
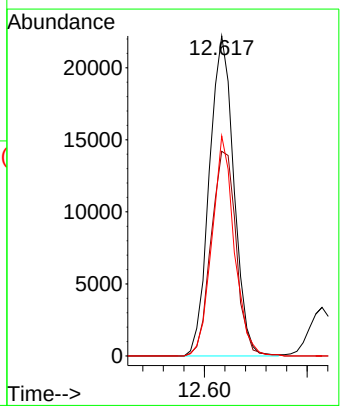
Supervised By :Semsettin Yesilyurt 08/12/2025

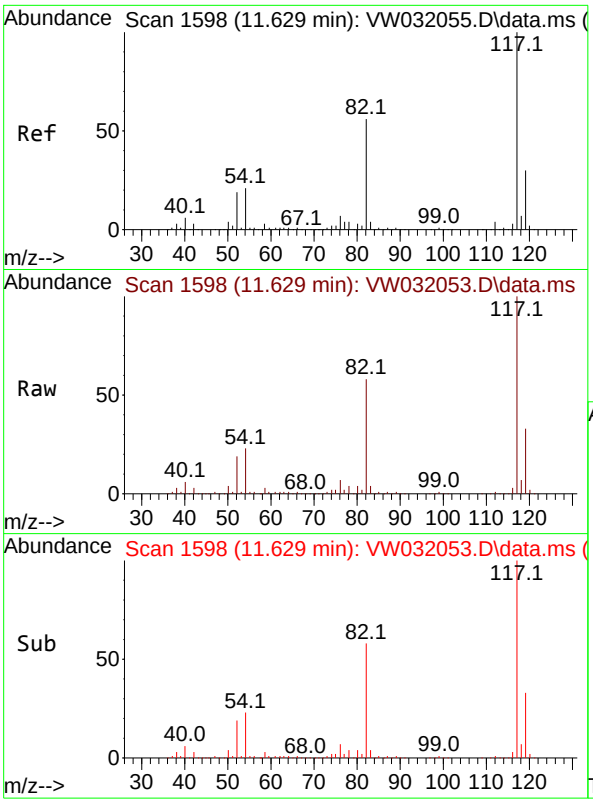



#62
4-Bromofluorobenzene
Concen: 9.778 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 95 Resp: 36748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 65.3 | 0.0 | 129.0 |
| 176 | 62.4 | 0.0 | 124.6 |

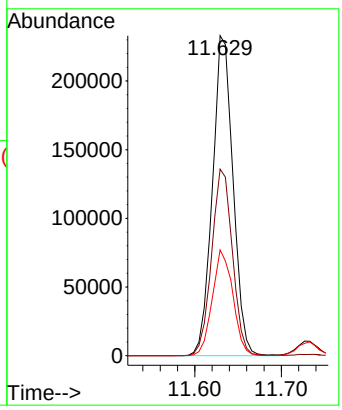





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:117 Resp: 38563

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 58.3 | 45.0 | 67.4 |
| 119 | 33.0 | 24.2 | 36.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

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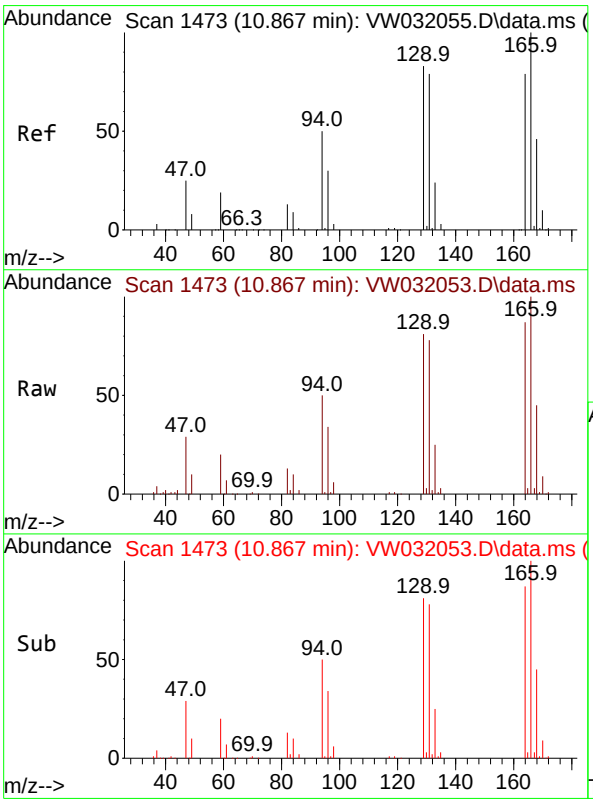
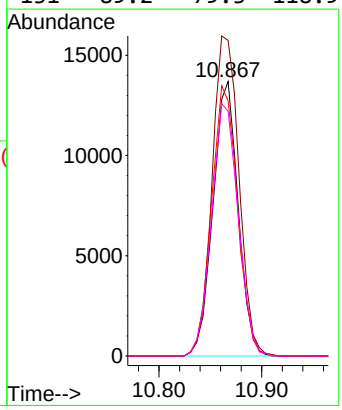
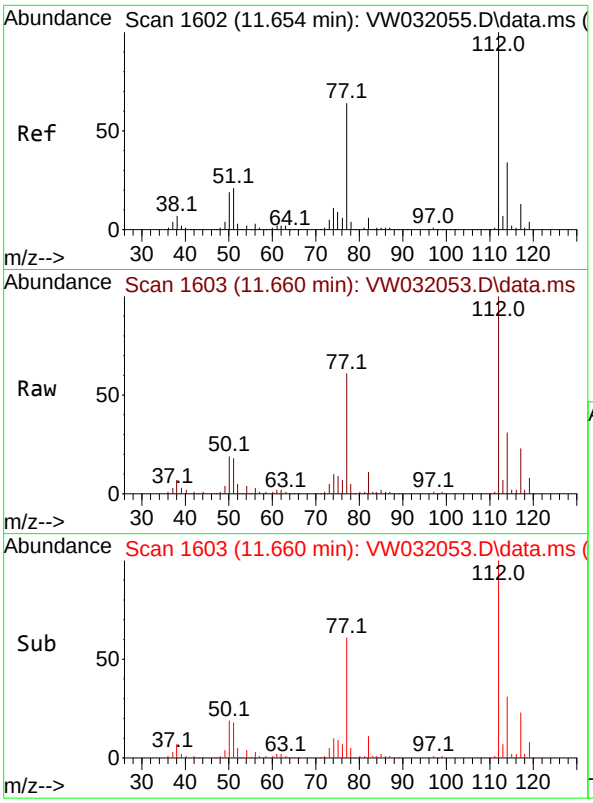



#64
Tetrachloroethene
Concen: 10.431 ug/l
RT: 10.867 min Scan# 1473
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:164 Resp: 23235

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 115.0 | 100.9 | 151.3 |
| 129 | 92.9 | 83.6 | 125.4 |
| 131 | 89.2 | 79.3 | 118.9 |

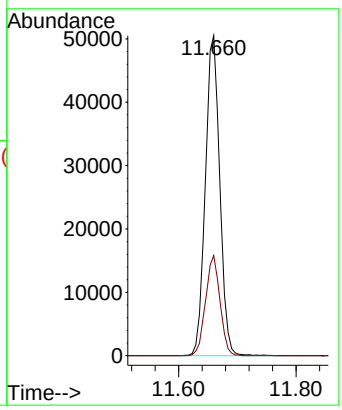





#65
Chlorobenzene
Concen: 10.257 ug/l
RT: 11.660 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:112 Resp: 8609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.3 | 26.9 | 40.3 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
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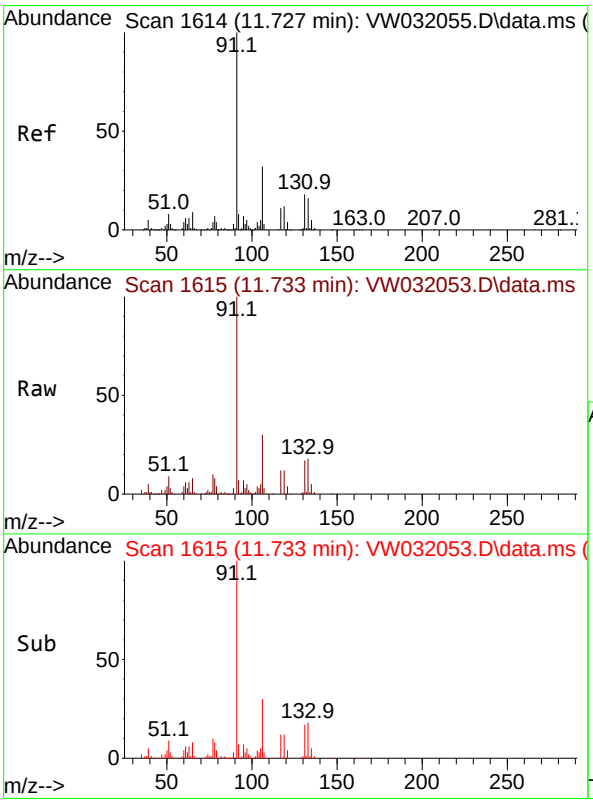
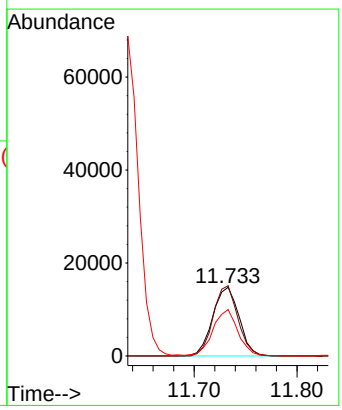
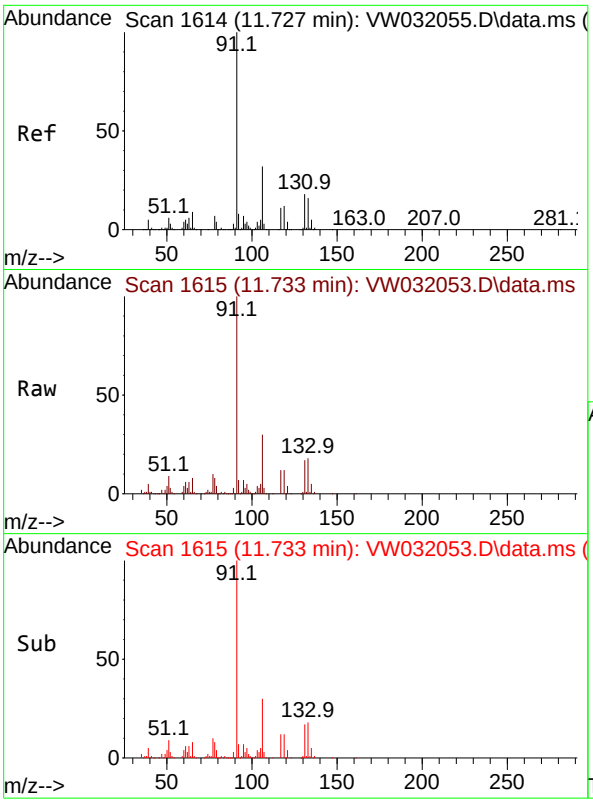



#66
1,1,1,2-Tetrachloroethane
Concen: 10.037 ug/l
RT: 11.733 min Scan# 1615
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:131 Resp: 26286

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.6 | 47.3 | 142.0 |
| 119 | 64.5 | 34.5 | 103.5 |

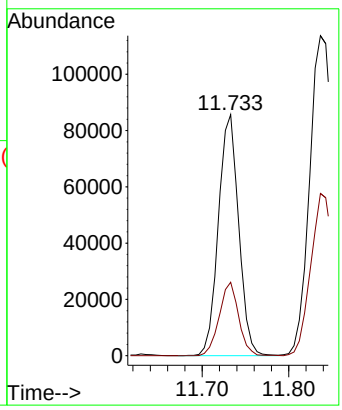





#67
Ethyl Benzene
Concen: 9.794 ug/l
RT: 11.733 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 91 Resp: 13925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.5 | 25.4 | 38.0 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

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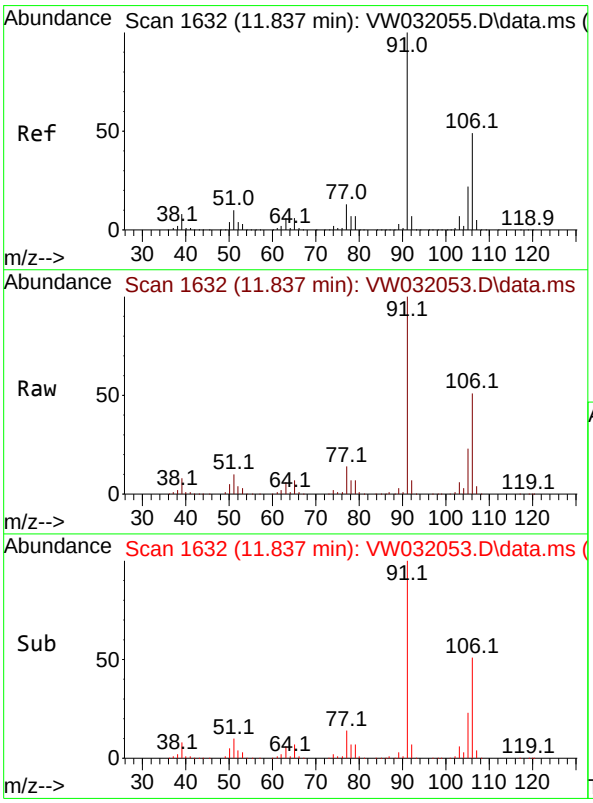
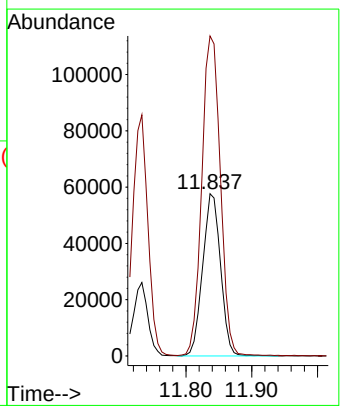
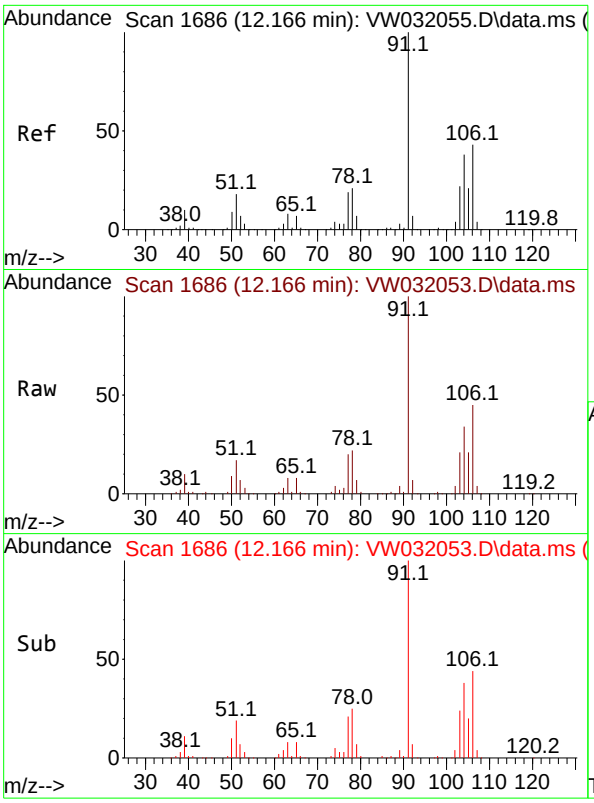



#68
m/p-Xylenes
Concen: 19.866 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:106 Resp: 108990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 205.0 | 162.2 | 243.2 |

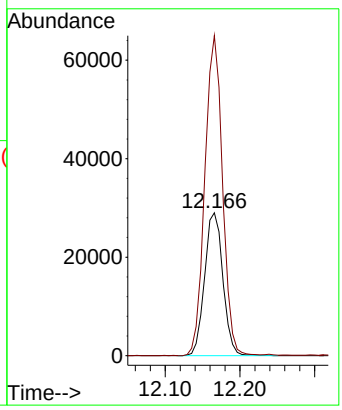





#69
o-Xylene
Concen: 9.714 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:106 Resp: 4925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 216.8 | 110.8 | 332.3 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

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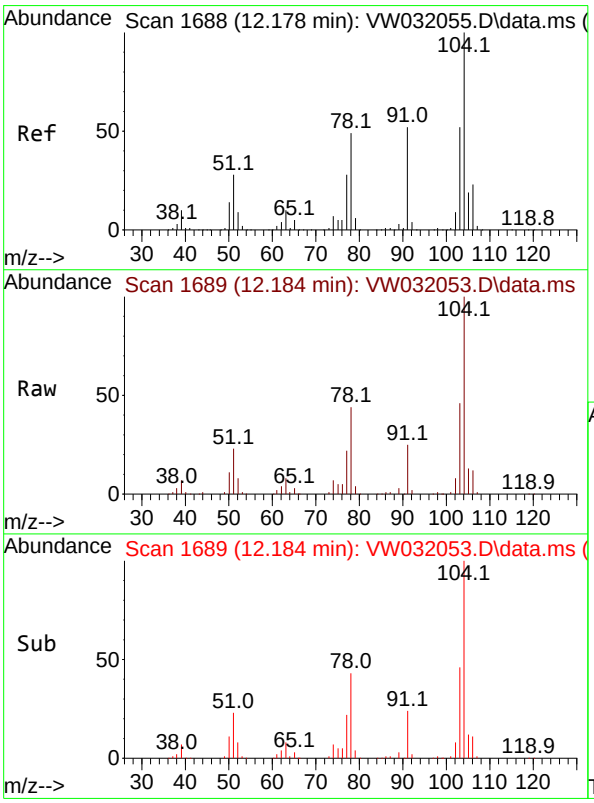
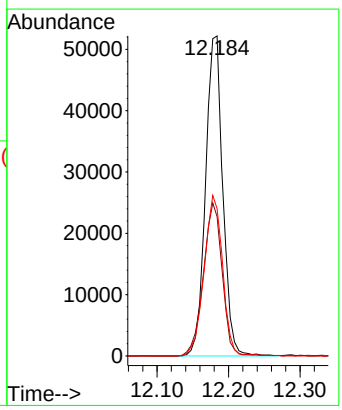
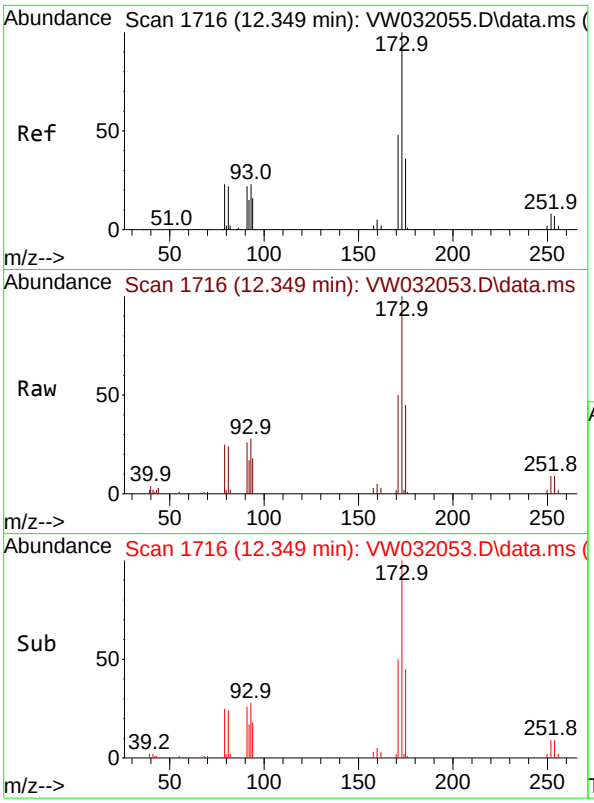



#70
Styrene
Concen: 9.719 ug/l
RT: 12.184 min Scan# 1689
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:104 Resp: 87542

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 52.1 | 41.2 | 61.8 |
| 103 | 53.8 | 43.8 | 65.8 |

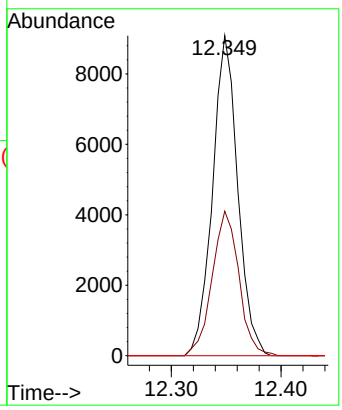





#71
Bromoform
Concen: 9.711 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:173 Resp: 1454

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.8 | 22.9 | 68.7 |
| 254 | 0.0 | 0.0 | 0.0 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

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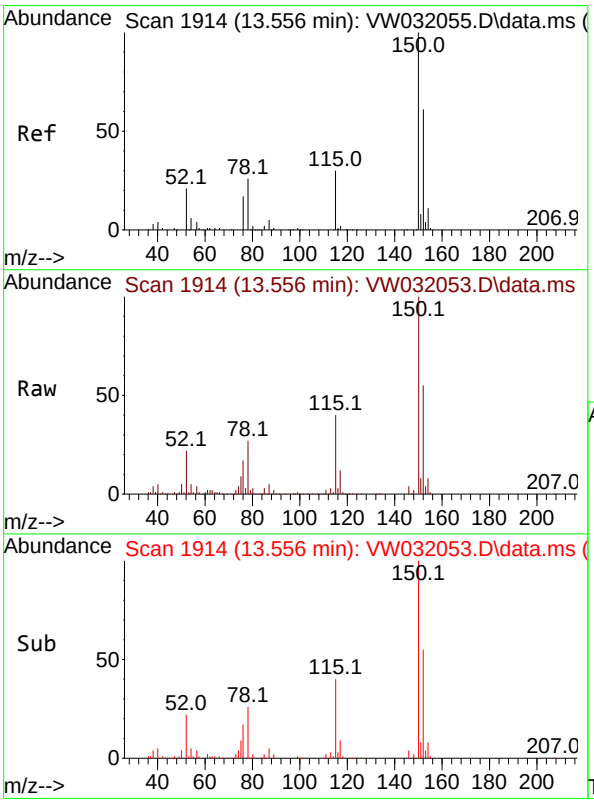
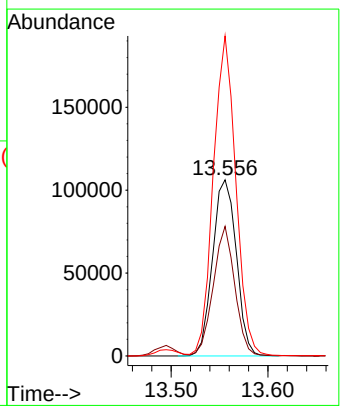
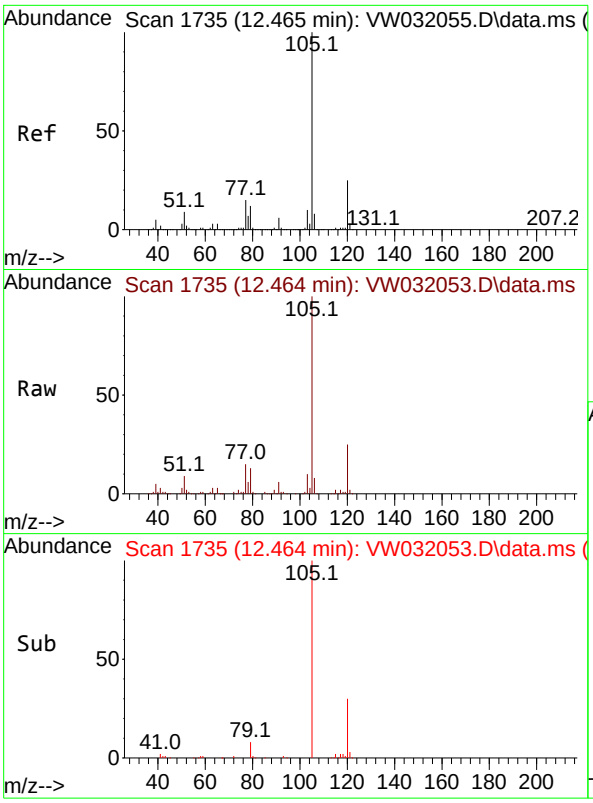



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:152 Resp: 181281

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 66.5 | 32.6 | 97.8 |
| 150 | 171.8 | 0.0 | 359.4 |

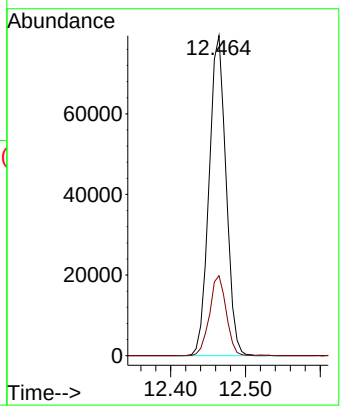





#73
Isopropylbenzene
Concen: 9.886 ug/l
RT: 12.464 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:105 Resp: 12524

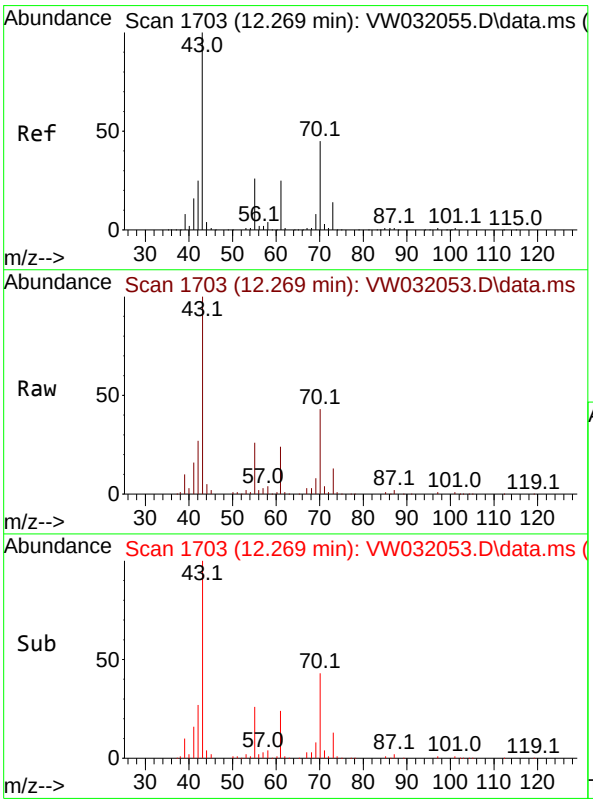
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 24.6 | 12.8 | 38.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

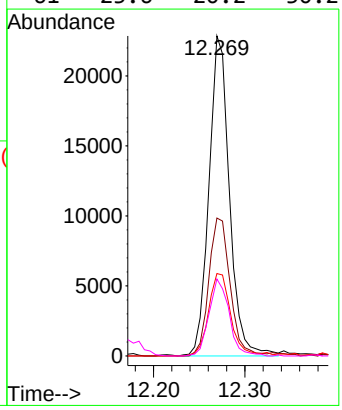
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

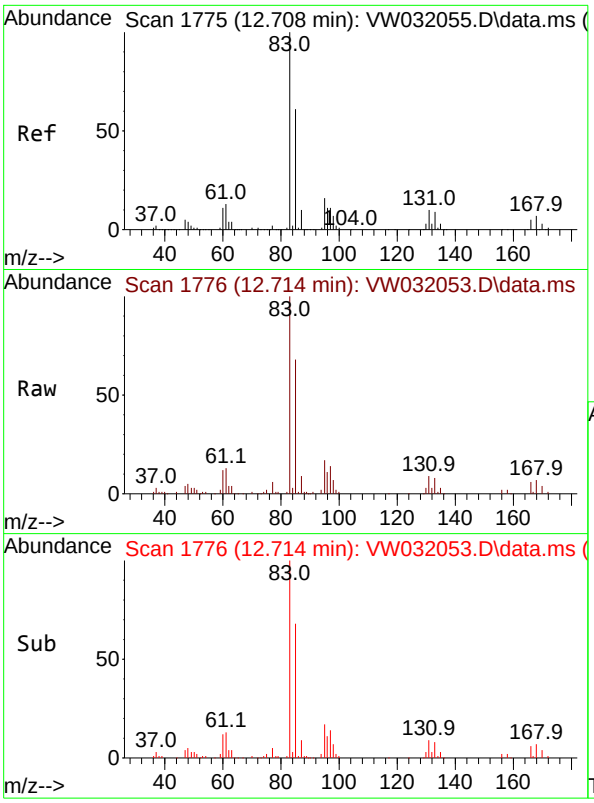



#74
N-amyl acetate
Concen: 9.804 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 43 Resp: 35636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 44.7 | 37.0 | 55.4 |
| 55 | 28.3 | 21.1 | 31.7 |
| 61 | 23.6 | 20.2 | 30.2 |

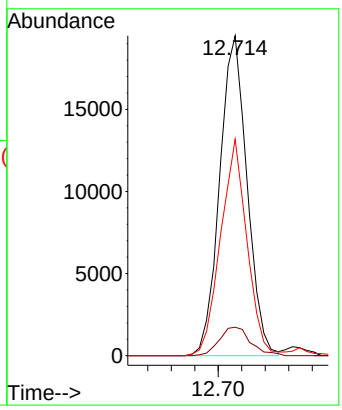





#75
1,1,2,2-Tetrachloroethane
Concen: 10.499 ug/l
RT: 12.714 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 83 Resp: 3158

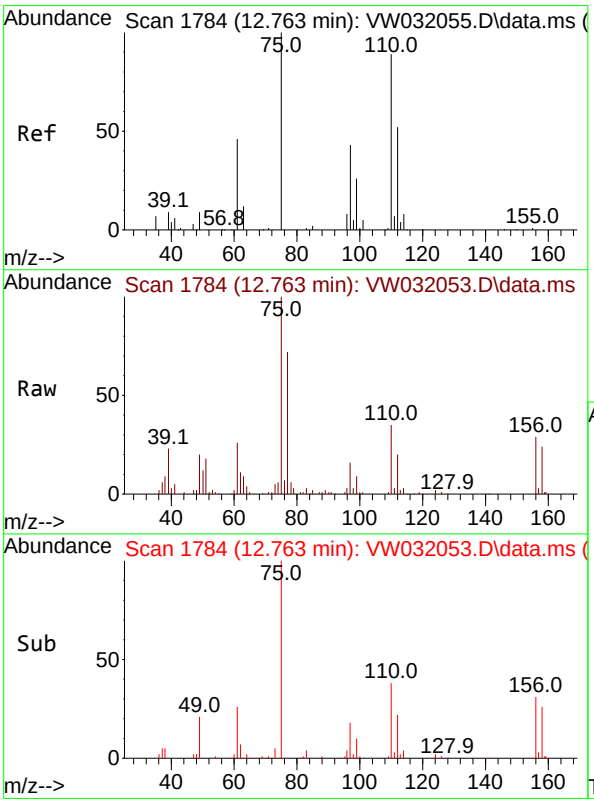
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.1 | 5.1 | 15.4 |
| 85 | 65.0 | 32.2 | 96.6 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

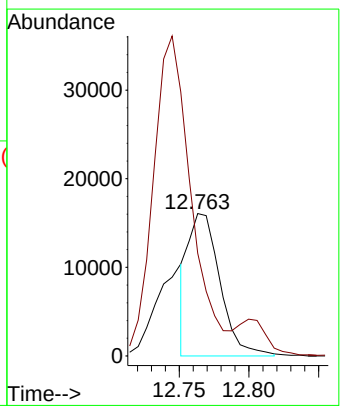
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

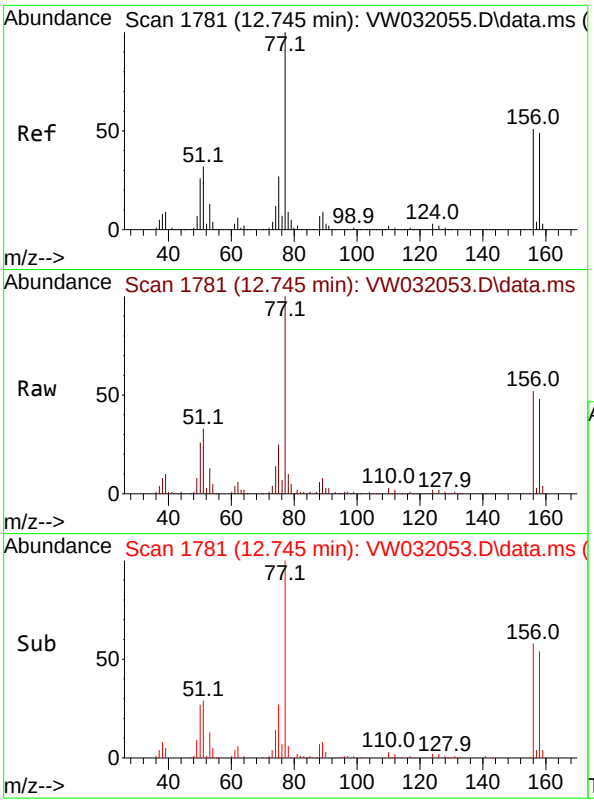



#76
1,2,3-Trichloropropane
Concen: 9.147 ug/l m
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 75 Resp: 25489

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 269.3 | 123.5 | 370.5 |

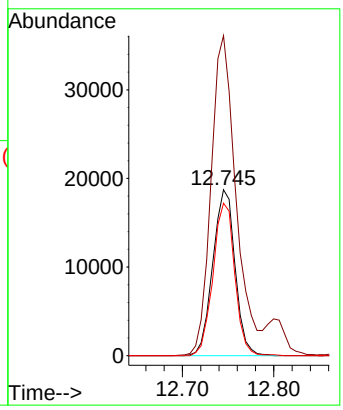





#77
Bromobenzene
Concen: 10.462 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:156 Resp: 3165

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 216.8 | 108.7 | 326.3 |
| 158 | 90.0 | 48.3 | 144.9 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

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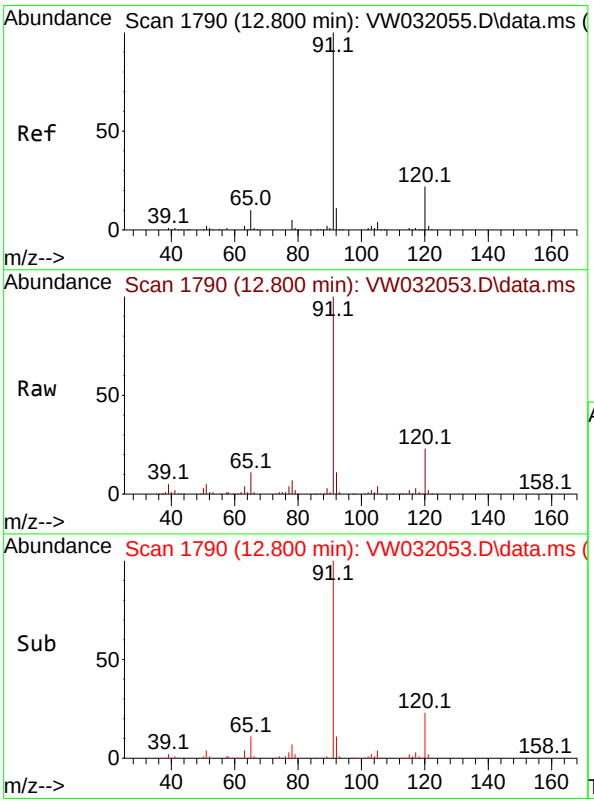
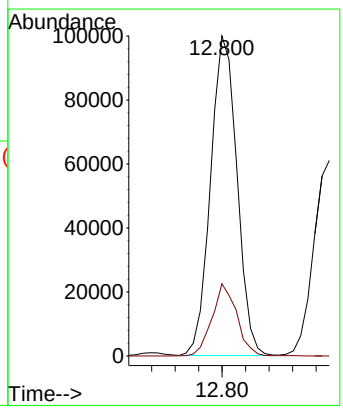
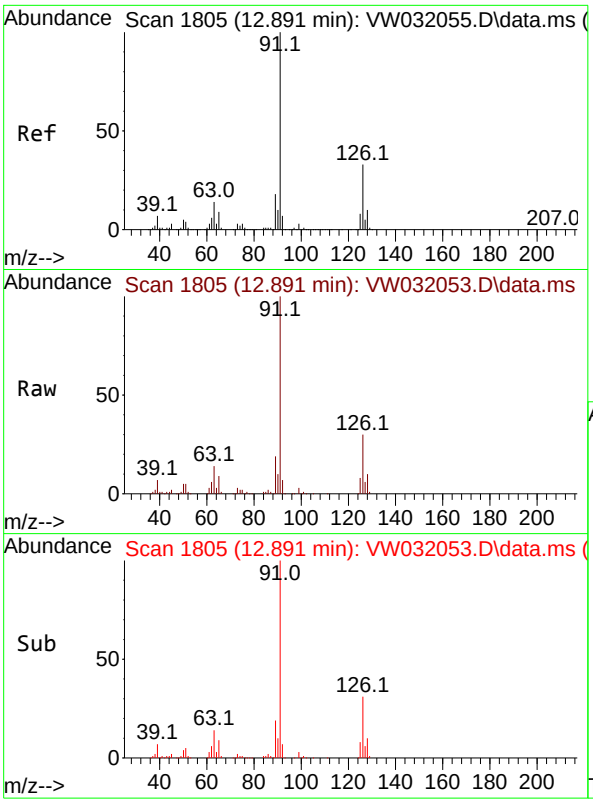



#78
n-propylbenzene
Concen: 10.019 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 91 Resp: 156266

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 21.1 | 11.1 | 33.3 |

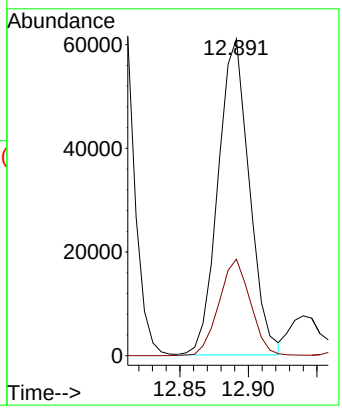





#79
2-Chlorotoluene
Concen: 10.071 ug/l
RT: 12.891 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 91 Resp: 9694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 30.8 | 15.9 | 47.7 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

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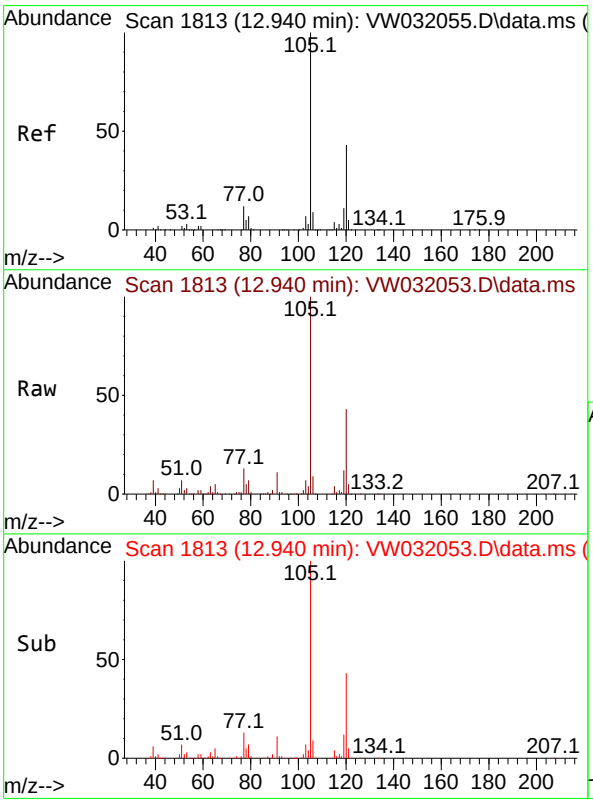
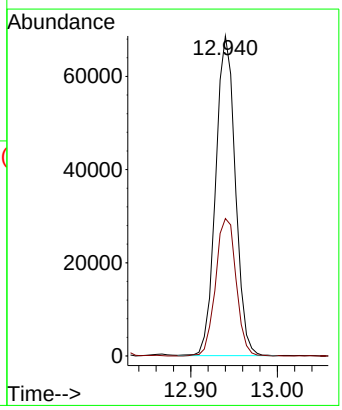
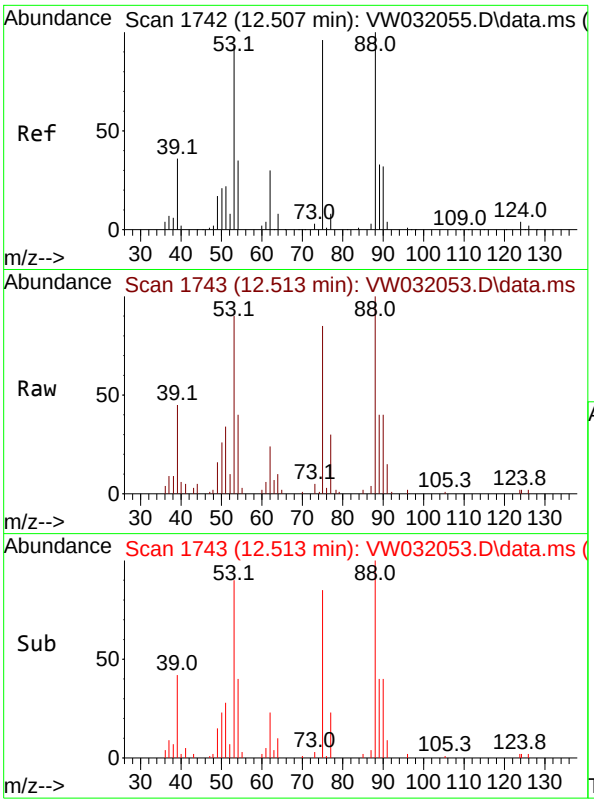



#80
1,3,5-Trimethylbenzene
Concen: 10.053 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:105 Resp: 108123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.0 | 23.4 | 70.0 |






#81
trans-1,4-Dichloro-2-butene
Concen: 9.403 ug/l
RT: 12.513 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 75 Resp: 893

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 115.3 | 81.0 | 121.6 |
| 89 | 47.3 | 37.3 | 55.9 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

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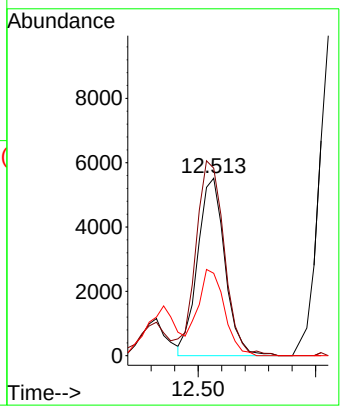
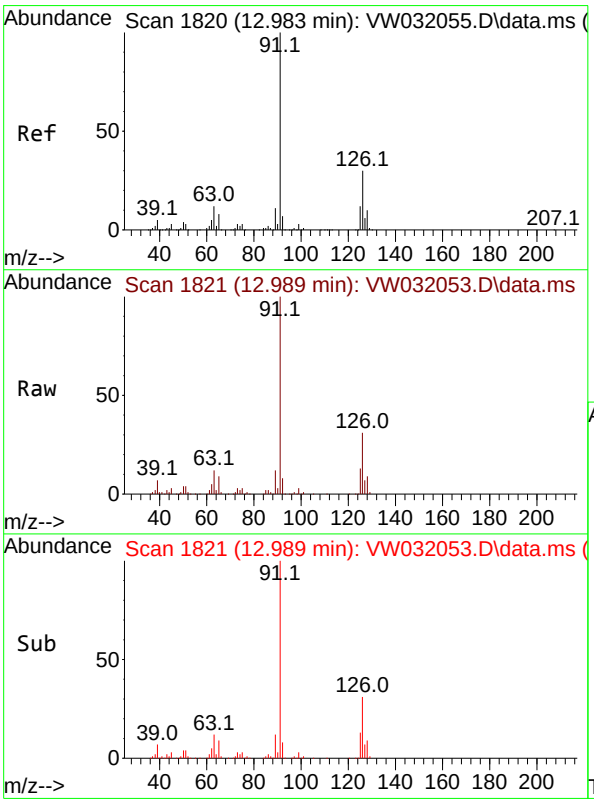
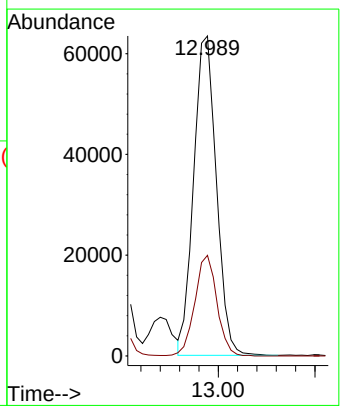


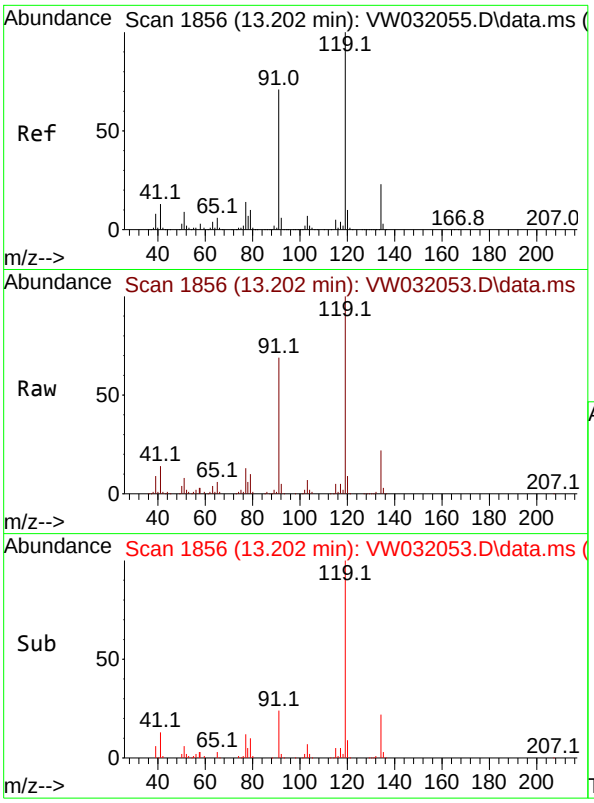




#82
4-Chlorotoluene
Concen: 10.103 ug/l
RT: 12.989 min Scan# 1821
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 91 Resp: 103329

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 30.8 | 15.5 | 46.5 |

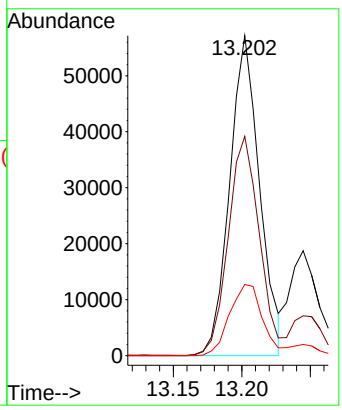





#83
tert-Butylbenzene
Concen: 9.729 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:119 Resp: 8684

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 70.7 | 35.3 | 105.9 |
| 134 | 24.8 | 12.1 | 36.3 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

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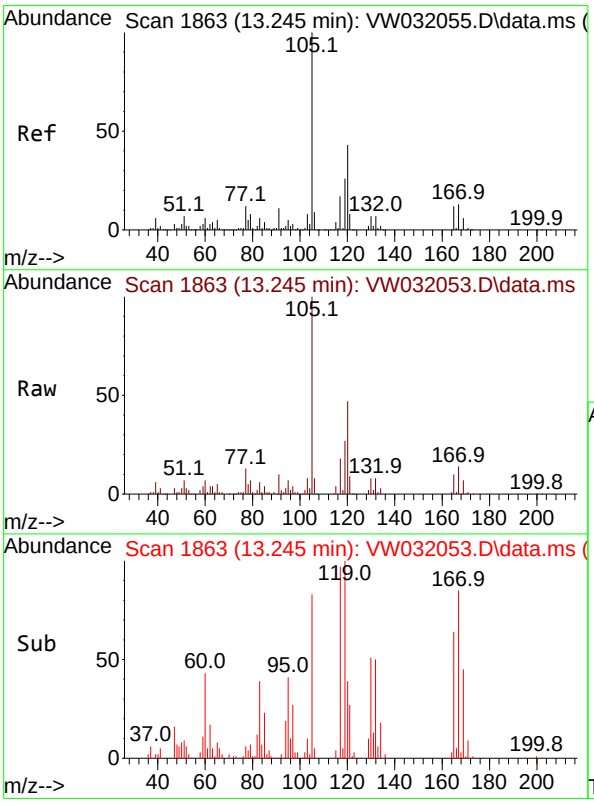
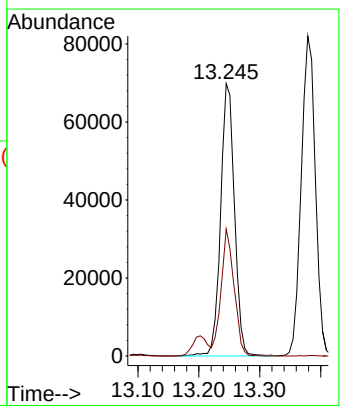
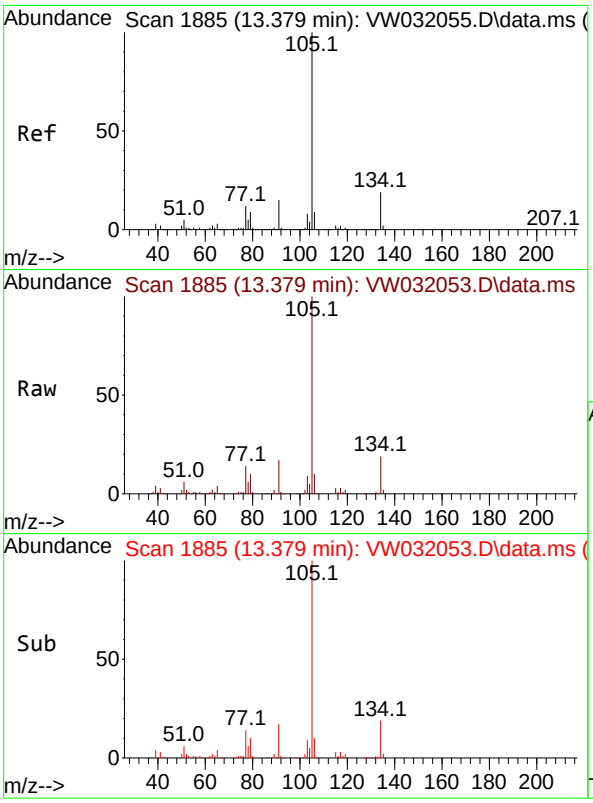



#84
1,2,4-Trimethylbenzene
Concen: 10.110 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:105 Resp: 110697

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.5 | 21.6 | 64.8 |






#85
sec-Butylbenzene
Concen: 9.756 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:105 Resp: 13166

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 18.7 | 9.9 | 29.7 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

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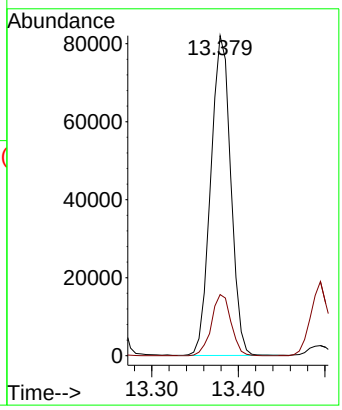
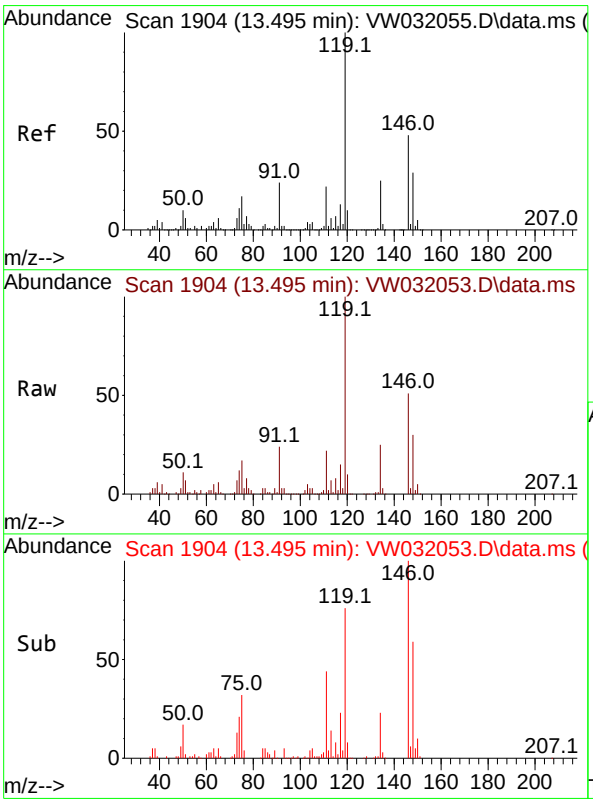
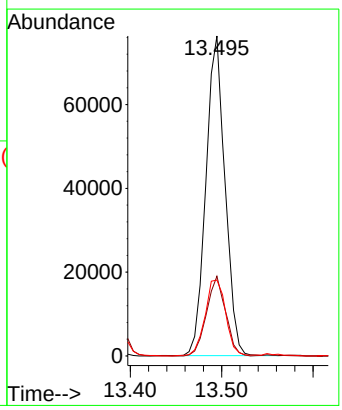


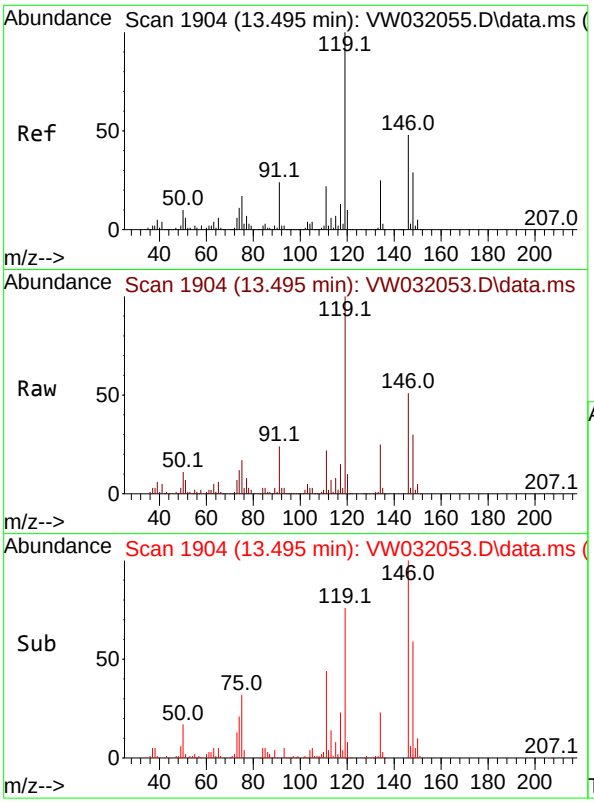




#86
p-Isopropyltoluene
Concen: 9.827 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:119 Resp: 110557

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 24.8 | 12.4 | 37.0 |
| 91 | 25.8 | 12.1 | 36.3 |

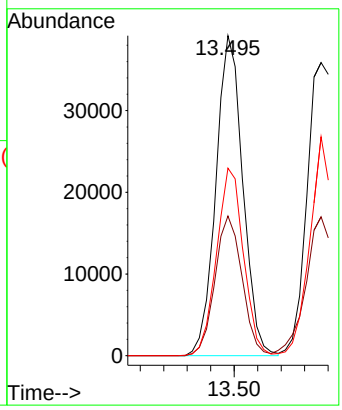





#87
1,3-Dichlorobenzene
Concen: 10.361 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:146 Resp: 6238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.9 | 21.2 | 63.6 |
| 148 | 58.5 | 30.3 | 90.8 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

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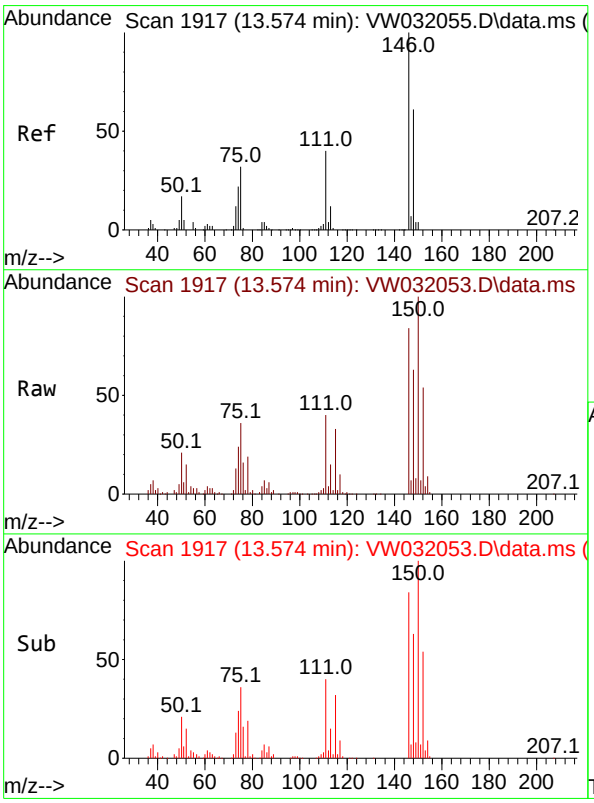
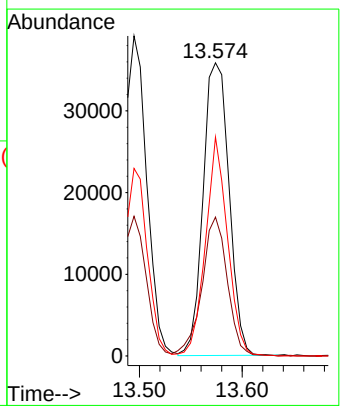
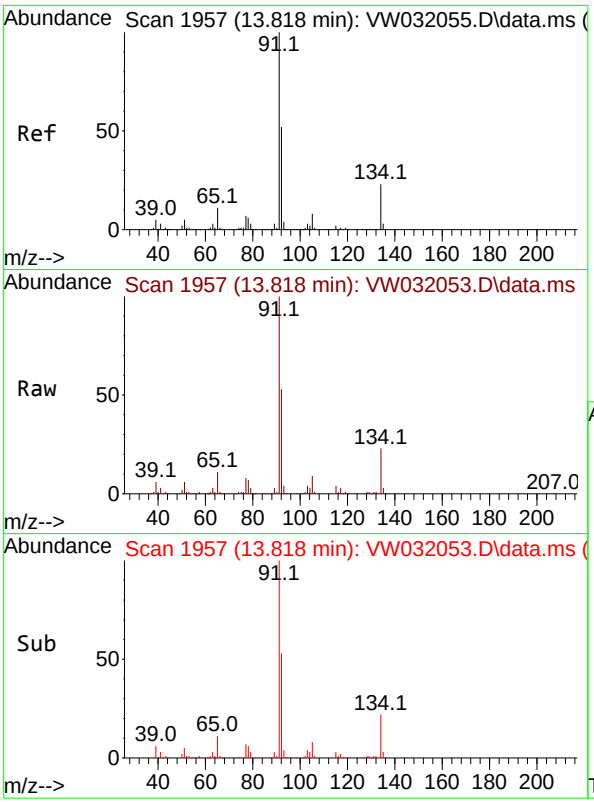



#88
1,4-Dichlorobenzene
Concen: 10.328 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:146 Resp: 62843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 46.7 | 21.6 | 64.6 |
| 148 | 63.8 | 32.0 | 96.2 |

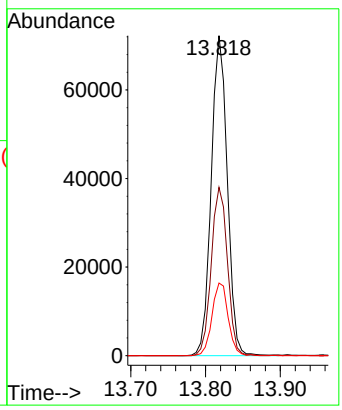





#89
n-Butylbenzene
Concen: 9.881 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 91 Resp: 10800

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.0 | 26.7 | 80.1 |
| 134 | 22.8 | 12.0 | 36.1 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
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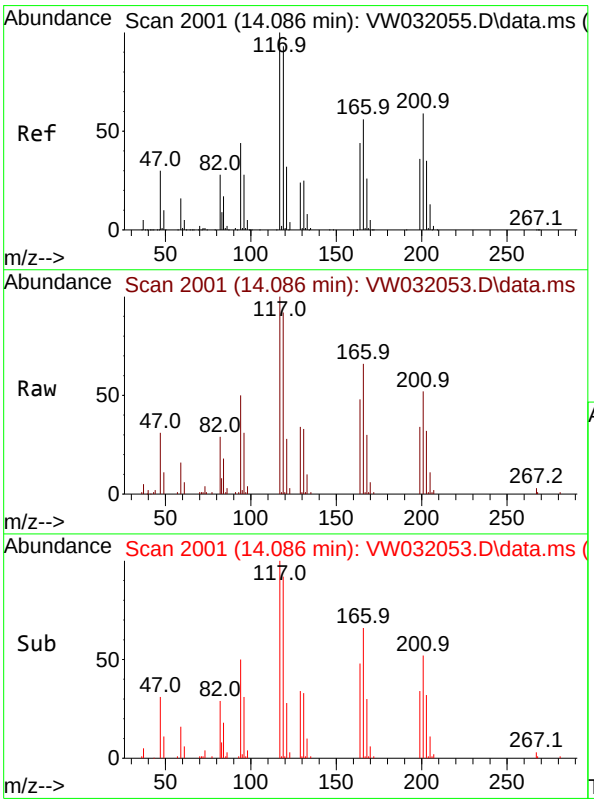
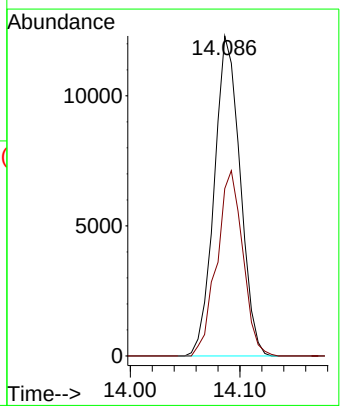
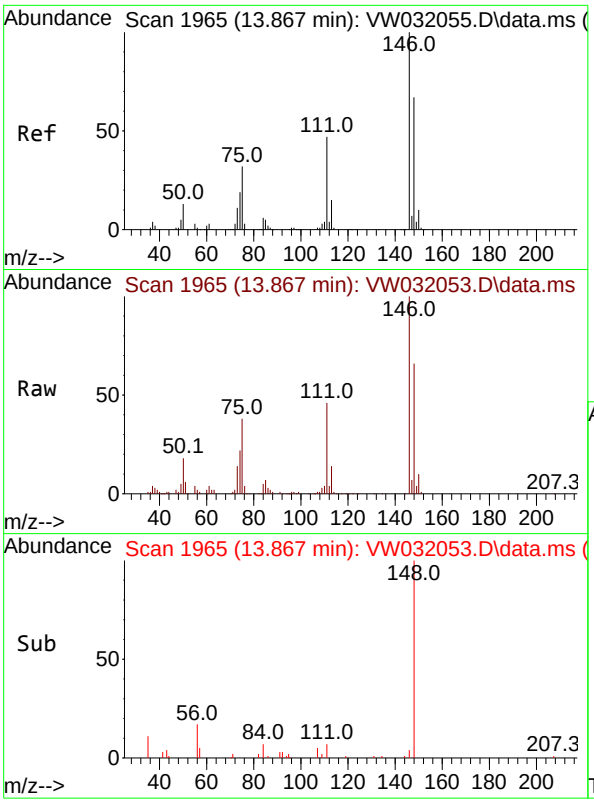



#90
Hexachloroethane
Concen: 9.805 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:117 Resp: 20175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 58.3 | 30.9 | 92.5 |

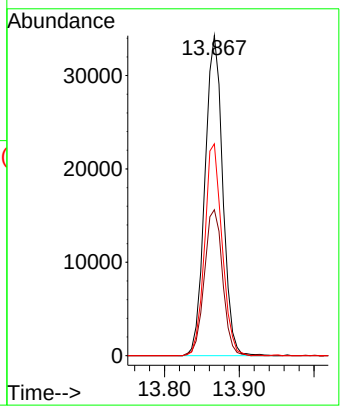





#91
1,2-Dichlorobenzene
Concen: 10.359 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:146 Resp: 5650

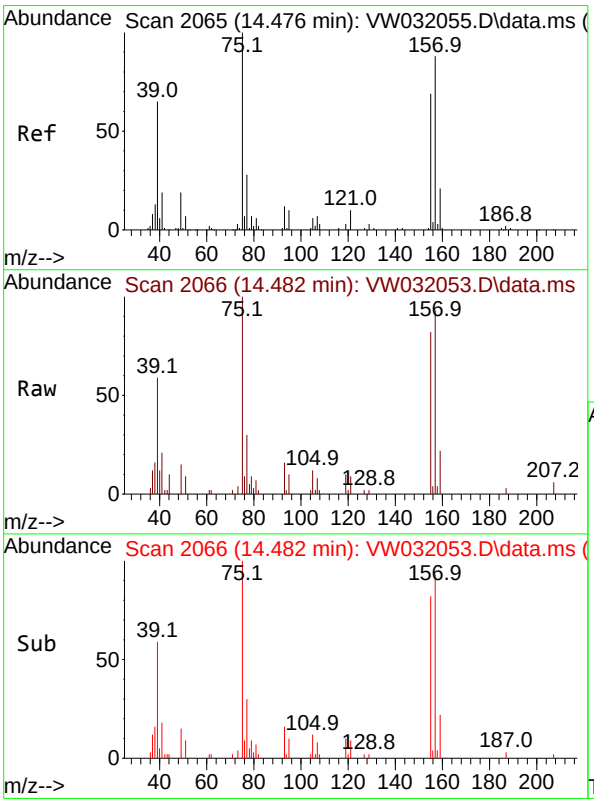
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 46.8 | 23.1 | 69.3 |
| 148 | 64.9 | 32.9 | 98.6 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

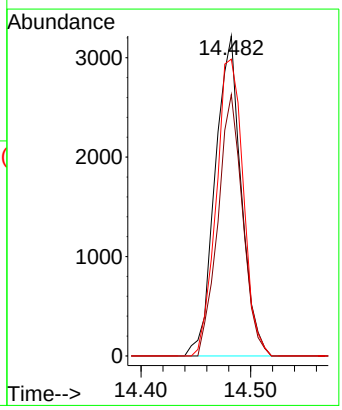
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

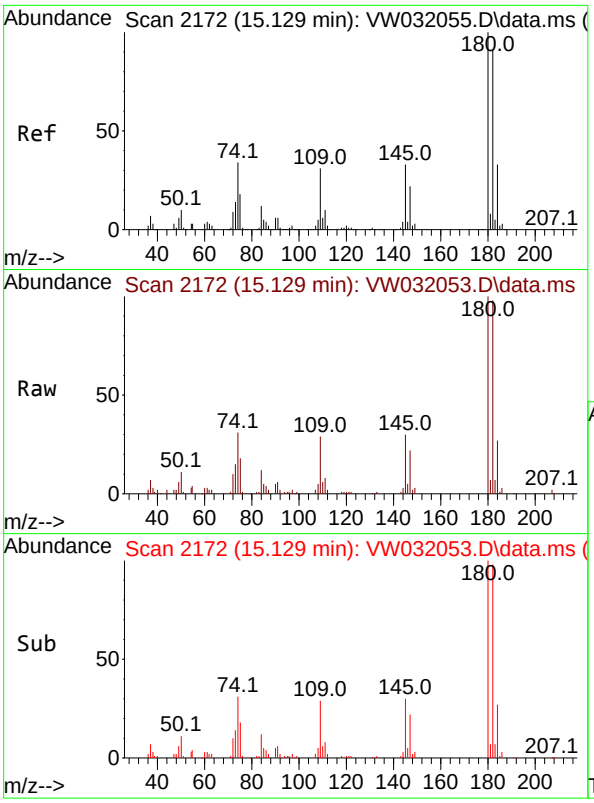



#92
1,2-Dibromo-3-Chloropropane
Concen: 9.920 ug/l
RT: 14.482 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 75 Resp: 5305

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 77.5 | 35.2 | 105.6 |
| 157 | 96.6 | 47.5 | 142.6 |

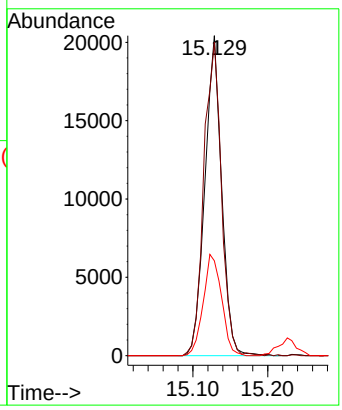





#93
1,2,4-Trichlorobenzene
Concen: 9.751 ug/l
RT: 15.129 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:180 Resp: 3181

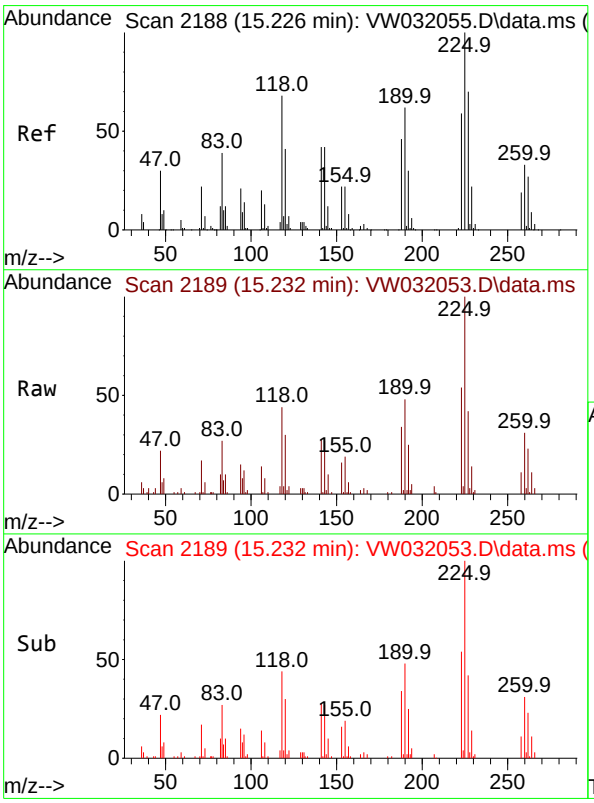
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 102.4 | 49.0 | 147.0 |
| 145 | 34.6 | 17.3 | 51.9 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

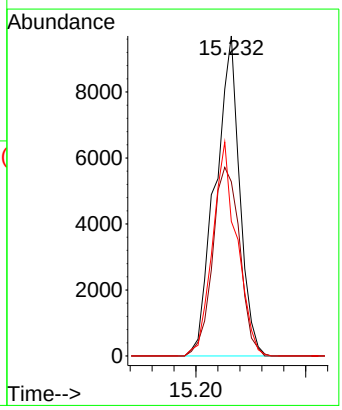
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

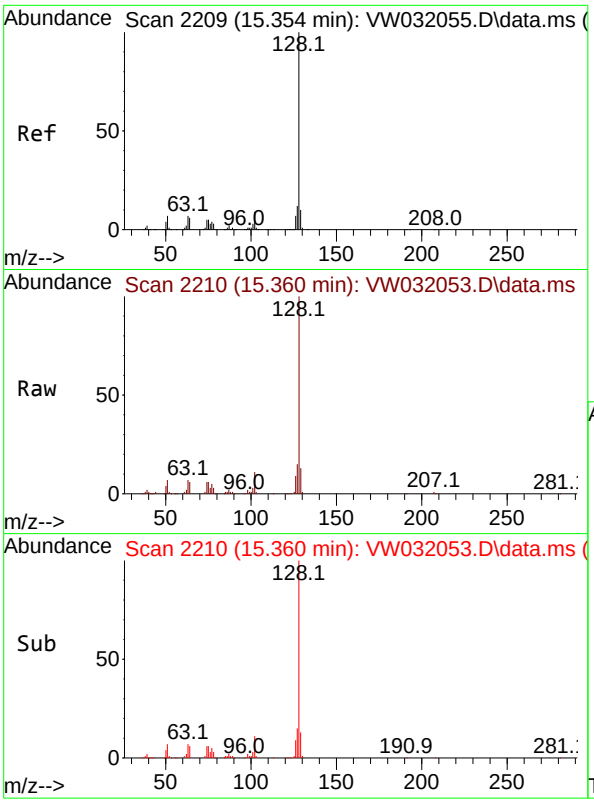



#94
Hexachlorobutadiene
Concen: 10.276 ug/l
RT: 15.232 min Scan# 2189
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:225 Resp: 14987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 65.5 | 31.8 | 95.3 |
| 227 | 66.4 | 33.5 | 100.5 |

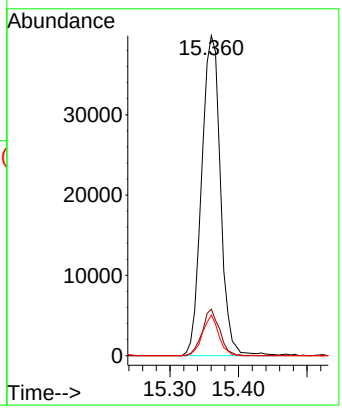





#95
Naphthalene
Concen: 9.542 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:128 Resp: 7628

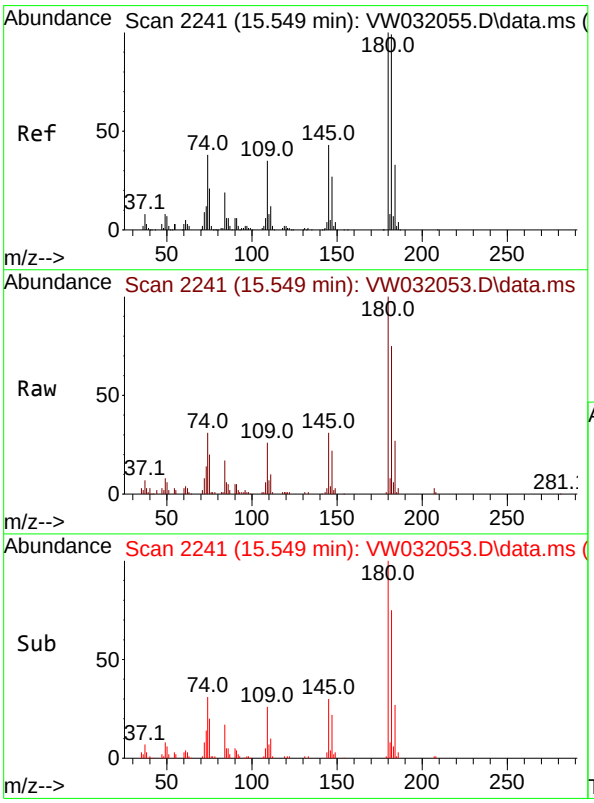
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.3 | 10.5 | 15.7 |
| 129 | 10.9 | 8.2 | 12.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

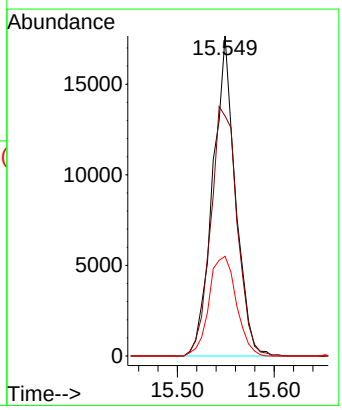
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025




#96
1,2,3-Trichlorobenzene
Concen: 9.660 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:180 Resp: 28678

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 91.5 | 46.0 | 138.0 |
| 145 | 37.6 | 19.2 | 57.6 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032054.D
Acq On : 11 Aug 2025 09:47
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Quant Time: Aug 12 03:37:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.959 | 168 | 221832 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.849 | 114 | 428395 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.629 | 117 | 386857 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.550 | 152 | 191343 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.313 | 65 | 63857 | 19.904 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 63 - 155 | | Recovery = | 39.800%# | | |
| 35) Dibromofluoromethane | 7.898 | 113 | 55788 | 20.158 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 70 - 134 | | Recovery = | 40.320%# | | |
| 50) Toluene-d8 | 10.325 | 98 | 206901 | 20.212 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 123 | | Recovery = | 40.420%# | | |
| 62) 4-Bromofluorobenzene | 12.617 | 95 | 76008 | 20.149 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 17 - 146 | | Recovery = | 40.300% | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.046 | 85 | 34171 | 21.537 | ug/l | 94 |
| 3) Chloromethane | 2.253 | 50 | 44499 | 20.821 | ug/l | 99 |
| 4) Vinyl Chloride | 2.405 | 62 | 57293 | 22.162 | ug/l | 91 |
| 5) Bromomethane | 2.814 | 94 | 41008 | 21.144 | ug/l | 93 |
| 6) Chloroethane | 2.966 | 64 | 36220 | 21.173 | ug/l | 100 |
| 7) Trichlorofluoromethane | 3.302 | 101 | 38977 | 18.821 | ug/l | 99 |
| 8) Diethyl Ether | 3.716 | 74 | 34764 | 20.489 | ug/l | 96 |
| 9) 1,1,2-Trichlorotrifluo... | 4.088 | 101 | 52165 | 21.351 | ug/l | 99 |
| 10) Methyl Iodide | 4.308 | 142 | 74197 | 21.419 | ug/l | 99 |
| 11) Tert butyl alcohol | 5.216 | 59 | 18539 | 89.237 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 4.076 | 96 | 57624 | 21.419 | ug/l | 98 |
| 13) Acrolein | 3.923 | 56 | 32512 | 98.218 | ug/l | 96 |
| 14) Allyl chloride | 4.698 | 41 | 81458 | 20.804 | ug/l | 99 |
| 15) Acrylonitrile | 5.393 | 53 | 75311 | 93.190 | ug/l | 98 |
| 16) Acetone | 4.155 | 43 | 67134 | 90.379 | ug/l | 99 |
| 17) Carbon Disulfide | 4.417 | 76 | 153247 | 21.222 | ug/l | 97 |
| 18) Methyl Acetate | 4.704 | 43 | 43536 | 18.522 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.466 | 73 | 96253 | 20.306 | ug/l | 99 |
| 20) Methylene Chloride | 4.948 | 84 | 74547 | 21.706 | ug/l | 94 |
| 21) trans-1,2-Dichloroethene | 5.454 | 96 | 59717 | 20.917 | ug/l | 97 |
| 22) Diisopropyl ether | 6.338 | 45 | 172071 | 20.846 | ug/l | 99 |
| 23) Vinyl Acetate | 6.277 | 43 | 539862 | 99.617 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 6.240 | 63 | 110835 | 21.016 | ug/l | 98 |
| 25) 2-Butanone | 7.191 | 43 | 96191 | 91.114 | ug/l | 97 |
| 26) 2,2-Dichloropropane | 7.179 | 77 | 53780 | 20.327 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 7.191 | 96 | 68545 | 20.540 | ug/l | 99 |
| 28) Bromochloromethane | 7.527 | 49 | 48715 | 20.298 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.551 | 42 | 64317 | 92.379 | ug/l | 98 |
| 30) Chloroform | 7.691 | 83 | 117474 | 21.011 | ug/l | 97 |
| 31) Cyclohexane | 7.965 | 56 | 95253 | 20.833 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.880 | 97 | 85600 | 21.078 | ug/l | 97 |
| 36) 1,1-Dichloropropene | 8.087 | 75 | 80811 | 20.712 | ug/l | 99 |
| 37) Ethyl Acetate | 7.270 | 43 | 41235 | 17.945 | ug/l | 98 |
| 38) Carbon Tetrachloride | 8.081 | 117 | 77289 | 20.527 | ug/l | 91 |
| 39) Methylcyclohexane | 9.337 | 83 | 97412 | 20.484 | ug/l | 94 |
| 40) Benzene | 8.331 | 78 | 246590 | 20.333 | ug/l | 98 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032054.D
Acq On : 11 Aug 2025 09:47
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Quant Time: Aug 12 03:37:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.496 | 41 | 25075 | 19.242 ug/l | | 97 |
| 42) 1,2-Dichloroethane | 8.410 | 62 | 78543 | 20.239 ug/l | | 99 |
| 43) Isopropyl Acetate | 8.435 | 43 | 78887 | 18.660 ug/l | | 98 |
| 44) Trichloroethene | 9.099 | 130 | 58636 | 20.302 ug/l | | 99 |
| 45) 1,2-Dichloropropane | 9.374 | 63 | 60346 | 20.597 ug/l | | 100 |
| 46) Dibromomethane | 9.465 | 93 | 37580 | 19.873 ug/l | | 98 |
| 47) Bromodichloromethane | 9.648 | 83 | 86577 | 19.869 ug/l | | 92 |
| 48) Methyl methacrylate | 9.441 | 41 | 38175 | 18.704 ug/l | | 97 |
| 49) 1,4-Dioxane | 9.459 | 88 | 8924 | 364.998 ug/l | | 97 |
| 51) 4-Methyl-2-Pentanone | 10.209 | 43 | 220661 | 92.472 ug/l | | 99 |
| 52) Toluene | 10.392 | 92 | 155974 | 20.418 ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 10.605 | 75 | 79452 | 19.463 ug/l | | 97 |
| 54) cis-1,3-Dichloropropene | 10.075 | 75 | 90828 | 19.612 ug/l | | 96 |
| 55) 1,1,2-Trichloroethane | 10.788 | 97 | 49974 | 19.888 ug/l | | 95 |
| 56) Ethyl methacrylate | 10.648 | 69 | 62694 | 18.645 ug/l | | 97 |
| 57) 1,3-Dichloropropane | 10.934 | 76 | 86678 | 19.790 ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.928 | 63 | 176339 | 94.809 ug/l | | 98 |
| 59) 2-Hexanone | 10.971 | 43 | 151264 | 91.530 ug/l | | 100 |
| 60) Dibromochloromethane | 11.130 | 129 | 56607 | 19.721 ug/l | | 100 |
| 61) 1,2-Dibromoethane | 11.233 | 107 | 47302 | 19.371 ug/l | | 100 |
| 64) Tetrachloroethene | 10.861 | 164 | 45660 | 20.434 ug/l | | 99 |
| 65) Chlorobenzene | 11.654 | 112 | 169830 | 20.169 ug/l | | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 11.727 | 131 | 52937 | 20.150 ug/l | | 98 |
| 67) Ethyl Benzene | 11.727 | 91 | 297193 | 20.836 ug/l | | 97 |
| 68) m/p-Xylenes | 11.837 | 106 | 233224 | 42.376 ug/l | | 98 |
| 69) o-Xylene | 12.166 | 106 | 104192 | 20.482 ug/l | | 100 |
| 70) Styrene | 12.178 | 104 | 189664 | 20.991 ug/l | | 98 |
| 71) Bromoform | 12.349 | 173 | 28540 | 18.991 ug/l | # | 96 |
| 73) Isopropylbenzene | 12.459 | 105 | 269829 | 20.178 ug/l | | 99 |
| 74) N-amyl acetate | 12.270 | 43 | 69075 | 18.005 ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.709 | 83 | 58836 | 18.531 ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.763 | 75 | 51456m | 17.494 ug/l | | |
| 77) Bromobenzene | 12.745 | 156 | 61389 | 19.221 ug/l | | 98 |
| 78) n-propylbenzene | 12.800 | 91 | 337098 | 20.476 ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.885 | 91 | 203918 | 20.069 ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.940 | 105 | 229615 | 20.226 ug/l | | 97 |
| 81) trans-1,4-Dichloro-2-b... | 12.507 | 75 | 17512 | 17.458 ug/l | | 92 |
| 82) 4-Chlorotoluene | 12.983 | 91 | 218637 | 20.253 ug/l | | 98 |
| 83) tert-Butylbenzene | 13.202 | 119 | 194168 | 20.608 ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.245 | 105 | 240078 | 20.774 ug/l | | 100 |
| 85) sec-Butylbenzene | 13.379 | 105 | 292689 | 20.547 ug/l | | 97 |
| 86) p-Isopropyltoluene | 13.495 | 119 | 245081 | 20.638 ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.495 | 146 | 128893 | 20.282 ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.574 | 146 | 133097 | 20.724 ug/l | | 97 |
| 89) n-Butylbenzene | 13.818 | 91 | 234522 | 20.328 ug/l | | 99 |
| 90) Hexachloroethane | 14.086 | 117 | 43226 | 19.904 ug/l | | 93 |
| 91) 1,2-Dichlorobenzene | 13.861 | 146 | 114056 | 19.812 ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.476 | 75 | 10011 | 17.736 ug/l | | 95 |
| 93) 1,2,4-Trichlorobenzene | 15.123 | 180 | 69229 | 20.102 ug/l | | 95 |
| 94) Hexachlorobutadiene | 15.226 | 225 | 30358 | 19.720 ug/l | | 91 |
| 95) Naphthalene | 15.360 | 128 | 153137 | 18.147 ug/l | | 98 |
| 96) 1,2,3-Trichlorobenzene | 15.543 | 180 | 61526 | 19.635 ug/l | | 97 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032054.D
Acq On : 11 Aug 2025 09:47
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Quant Time: Aug 12 03:37:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

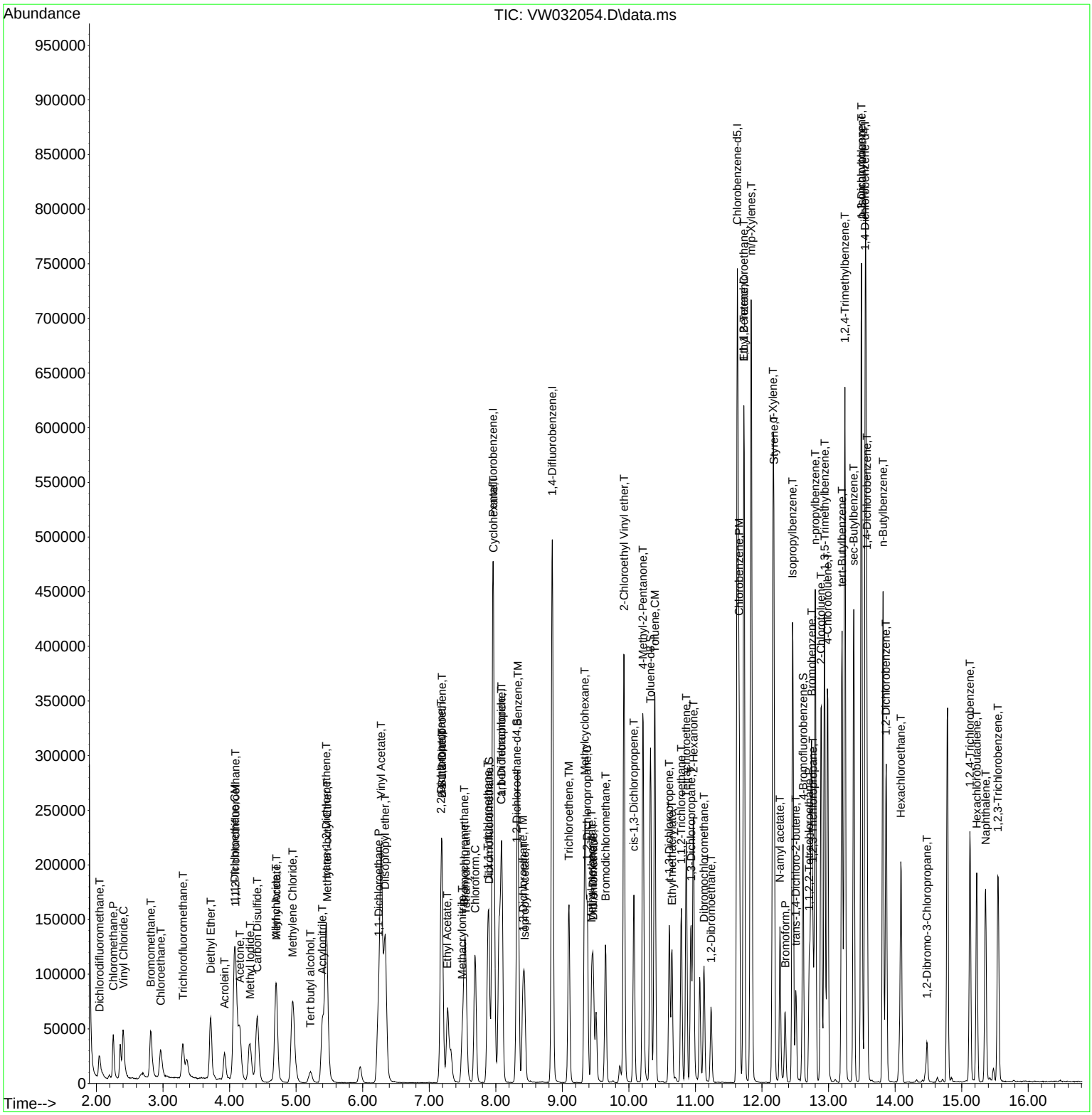
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032054.D
Acq On : 11 Aug 2025 09:47
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

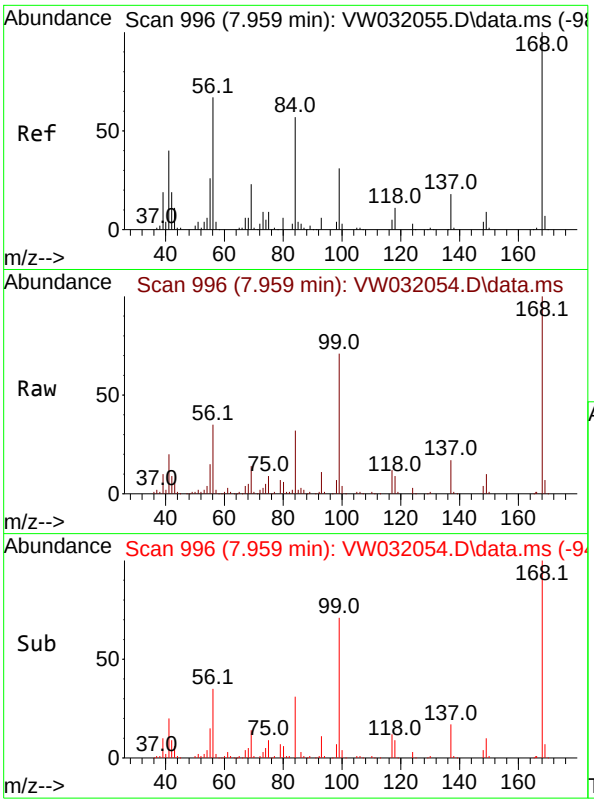
Quant Time: Aug 12 03:37:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

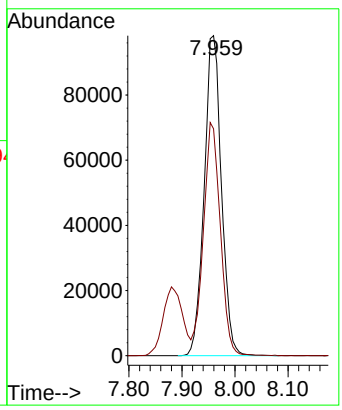





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:168 Resp: 22183

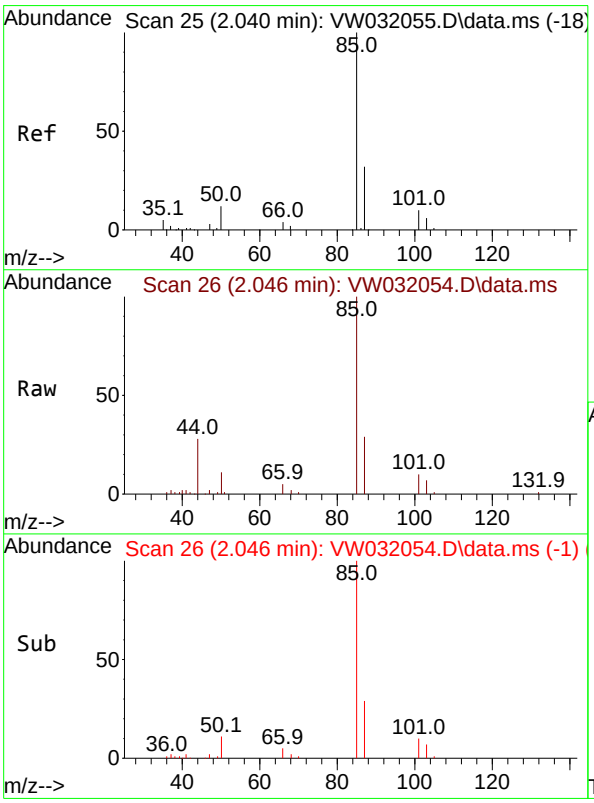
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 70.9 | 56.0 | 84.0 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

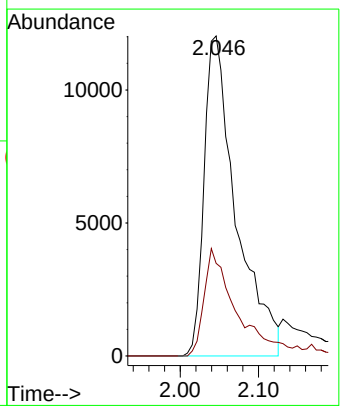
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

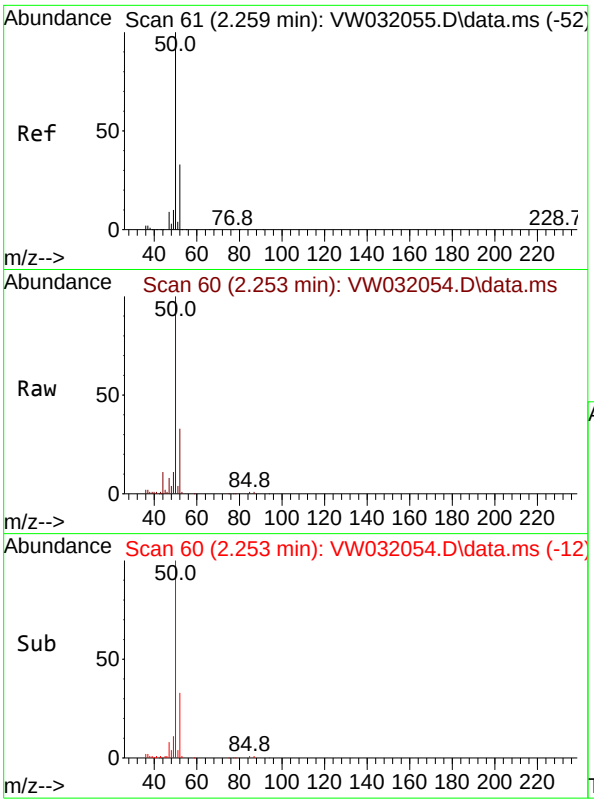



#2
Dichlorodifluoromethane
Concen: 21.537 ug/l
RT: 2.046 min Scan# 26
Delta R.T. 0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 85 Resp: 34171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 29.0 | 16.2 | 48.6 |

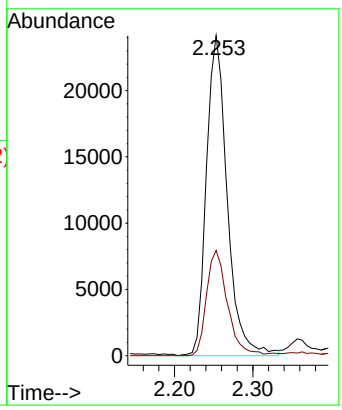





#3
Chloromethane
Concen: 20.821 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 50 Resp: 4449

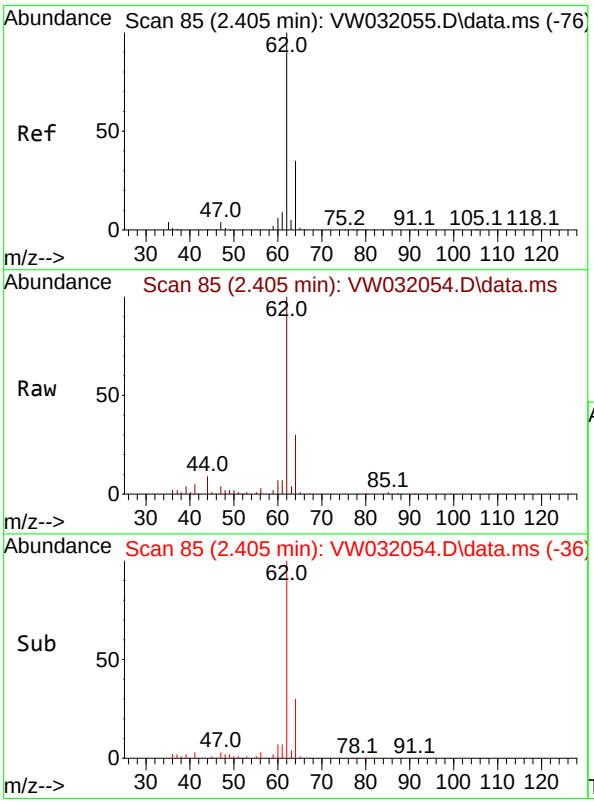
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.9 | 26.6 | 39.8 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

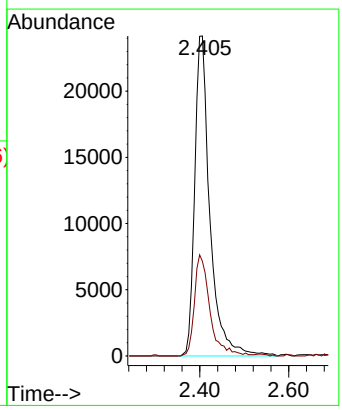
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

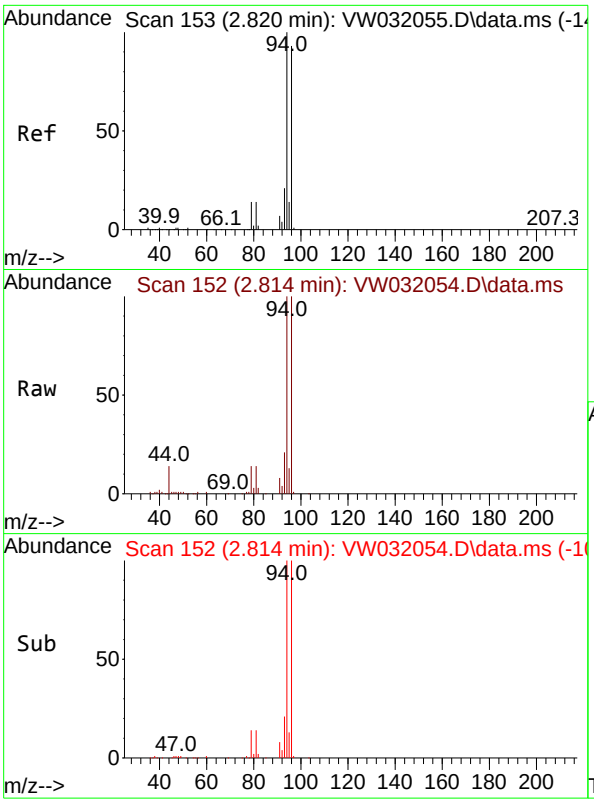



#4
Vinyl Chloride
Concen: 22.162 ug/l
RT: 2.405 min Scan# 85
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 62 Resp: 57293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 29.6 | 27.8 | 41.6 |

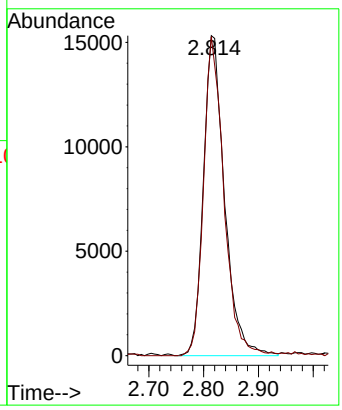





#5
Bromomethane
Concen: 21.144 ug/l
RT: 2.814 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 94 Resp: 4100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 99.7 | 74.7 | 112.1 |




**Instrument :**
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VSTDICC020

**Manual Integrations APPROVED**

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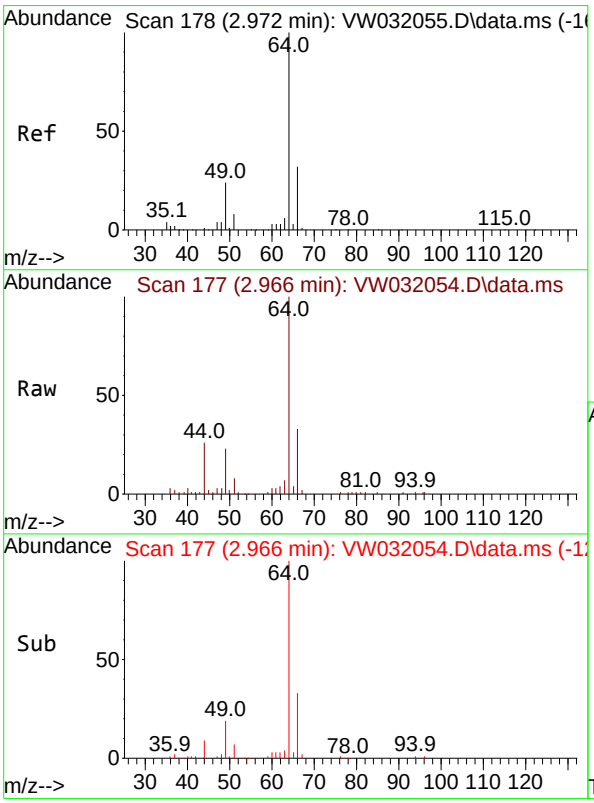
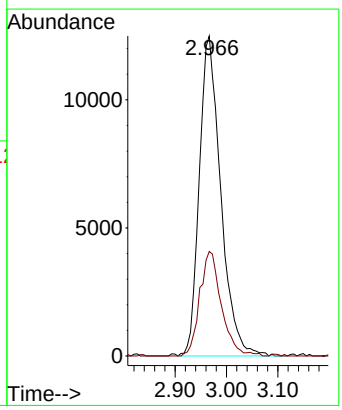
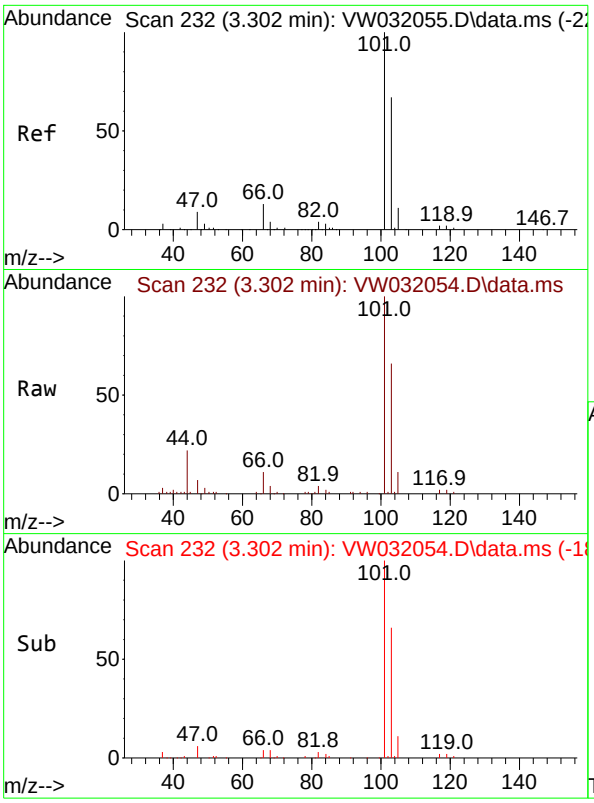



#6
Chloroethane
Concen: 21.173 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 64 Resp: 36220

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.7 | 26.0 | 39.0 |

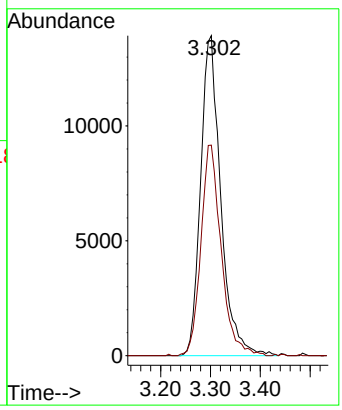





#7
Trichlorofluoromethane
Concen: 18.821 ug/l
RT: 3.302 min Scan# 2
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:101 Resp: 3897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.8 | 53.4 | 80.0 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

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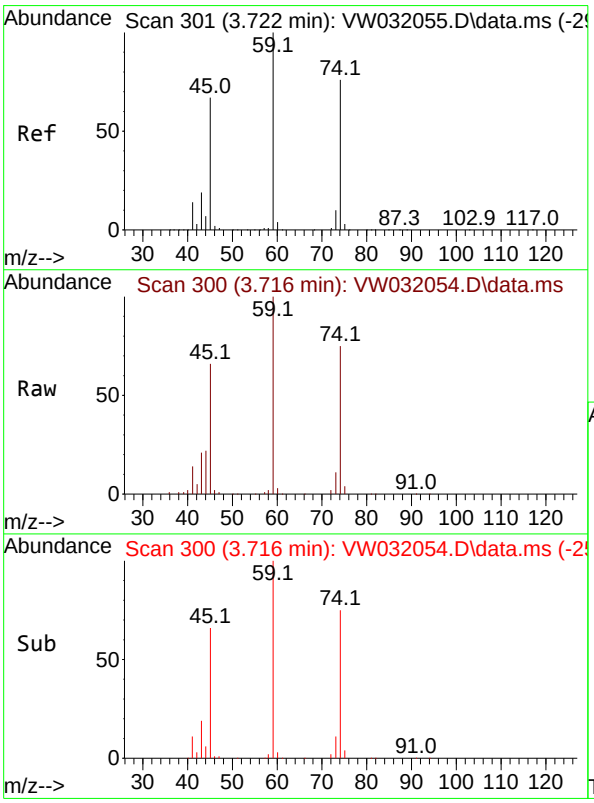
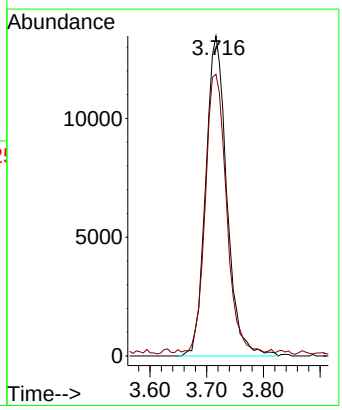
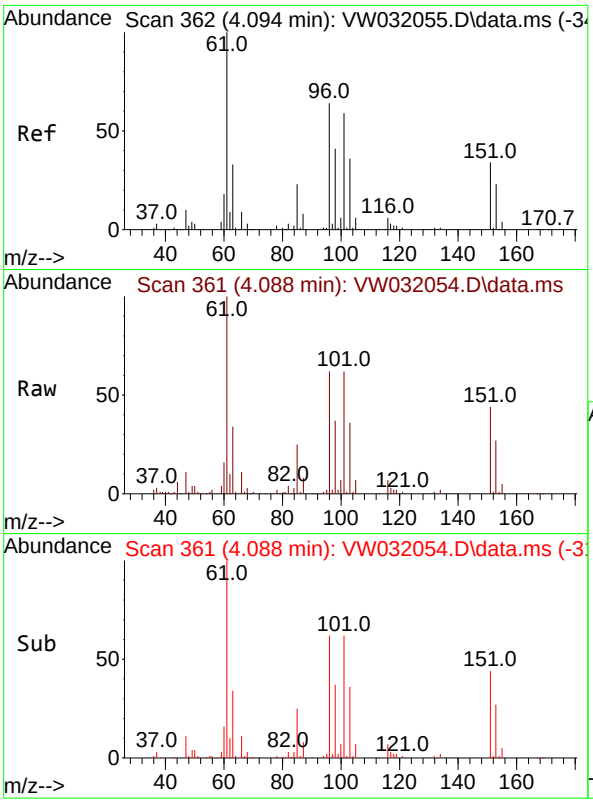



#8
Diethyl Ether
Concen: 20.489 ug/l
RT: 3.716 min Scan# 300
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 74 Resp: 34764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 86.6 | 45.4 | 136.2 |

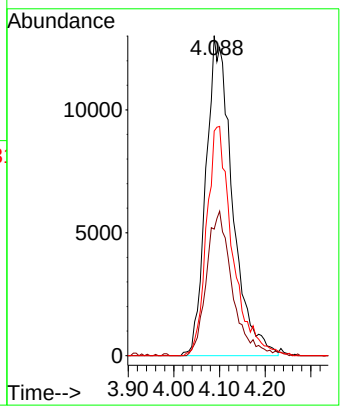





#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.351 ug/l
RT: 4.088 min Scan# 3
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:101 Resp: 5216

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 44.1 | 34.9 | 52.3 |
| 151 | 70.0 | 56.2 | 84.4 |




**Instrument :**
MSVOA_W
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VSTDICC020

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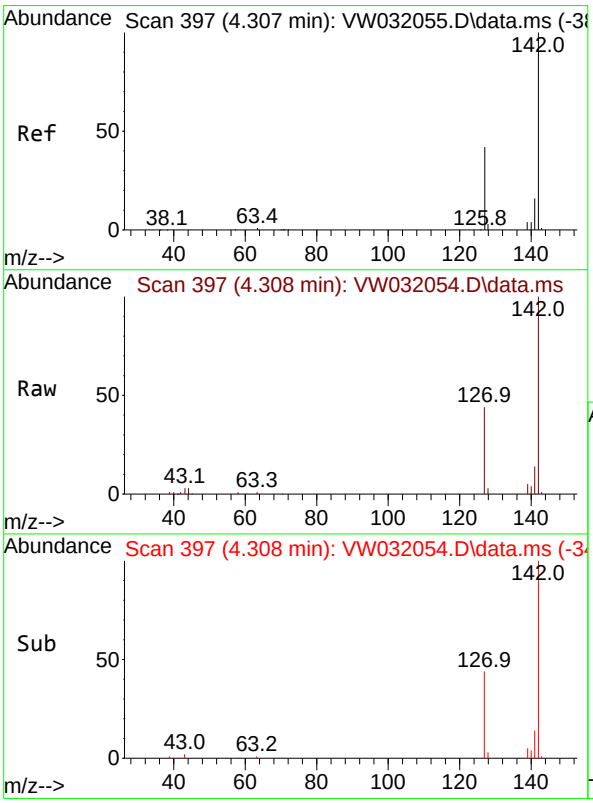
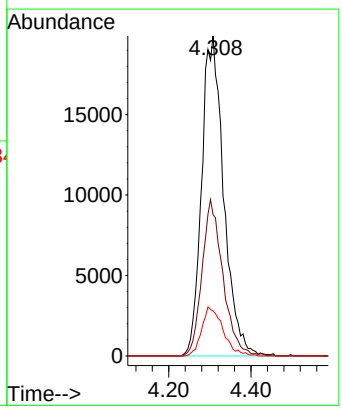
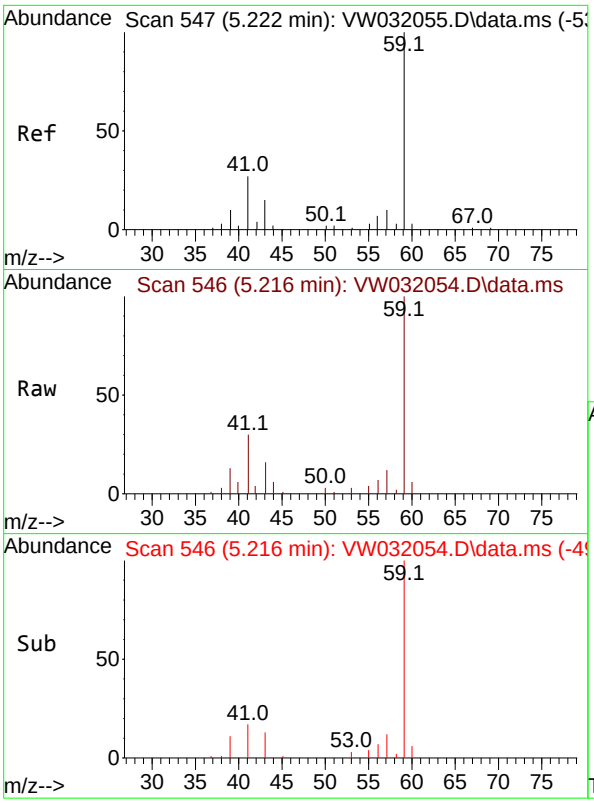



#10
Methyl Iodide
Concen: 21.419 ug/l
RT: 4.308 min Scan# 397
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:142 Resp: 74197

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 46.1 | 36.6 | 55.0 |
| 141 | 14.8 | 12.1 | 18.1 |

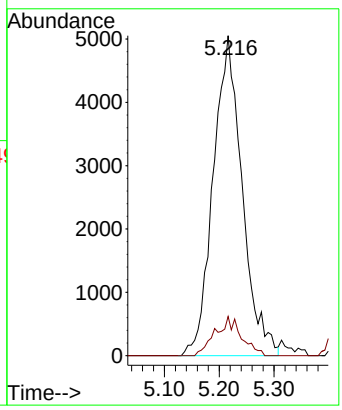





#11
Tert butyl alcohol
Concen: 89.237 ug/l
RT: 5.216 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 59 Resp: 1853

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.9 | 8.7 | 13.1 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

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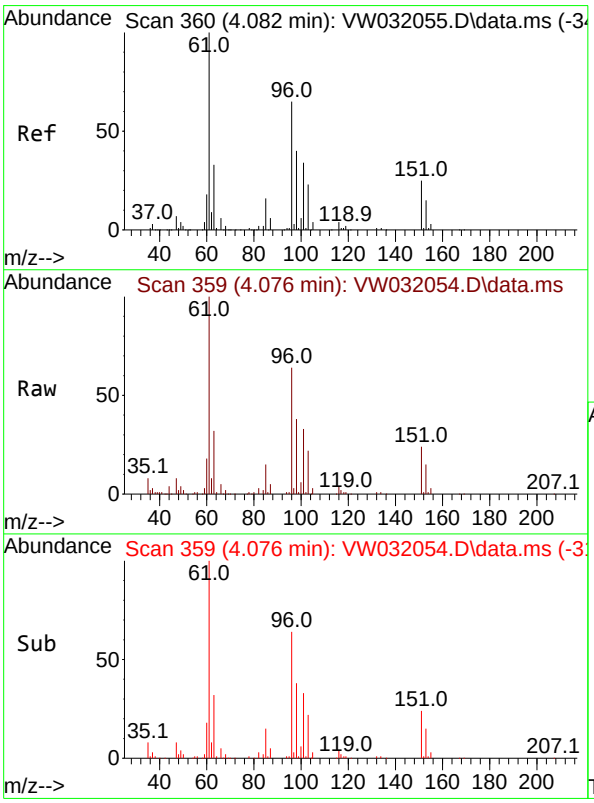
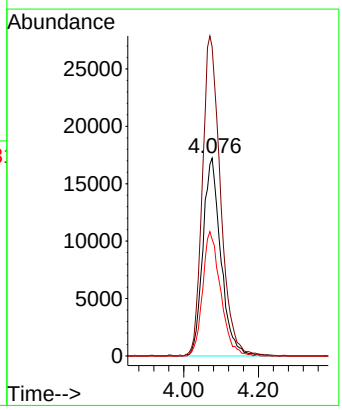
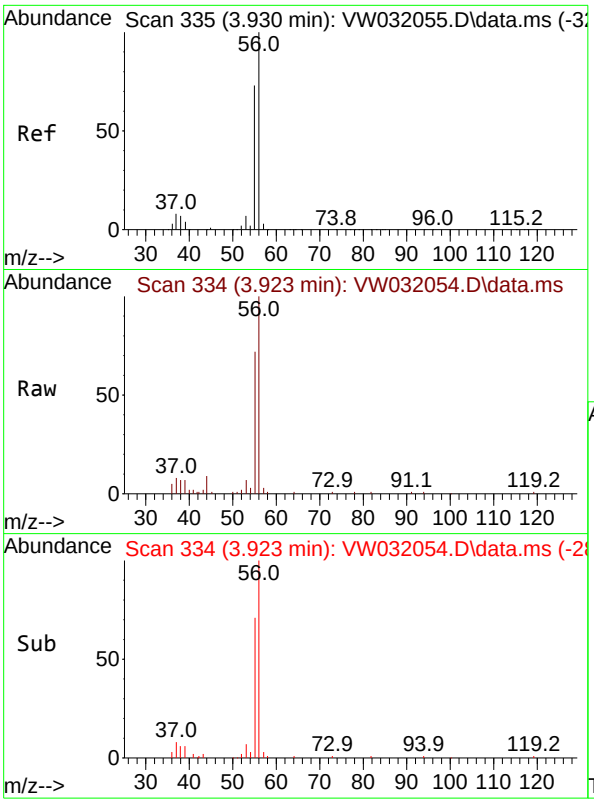



#12
1,1-Dichloroethene
Concen: 21.419 ug/l
RT: 4.076 min Scan# 359
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 96 Resp: 57624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 156.3 | 123.4 | 185.2 |
| 98 | 59.0 | 49.5 | 74.3 |






#13
Acrolein
Concen: 98.218 ug/l
RT: 3.923 min Scan# 3
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 56 Resp: 3251

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 72.7 | 55.4 | 83.2 |

**Instrument :**
MSVOA_W
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VSTDICC020

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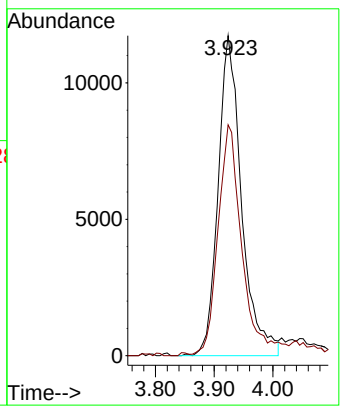
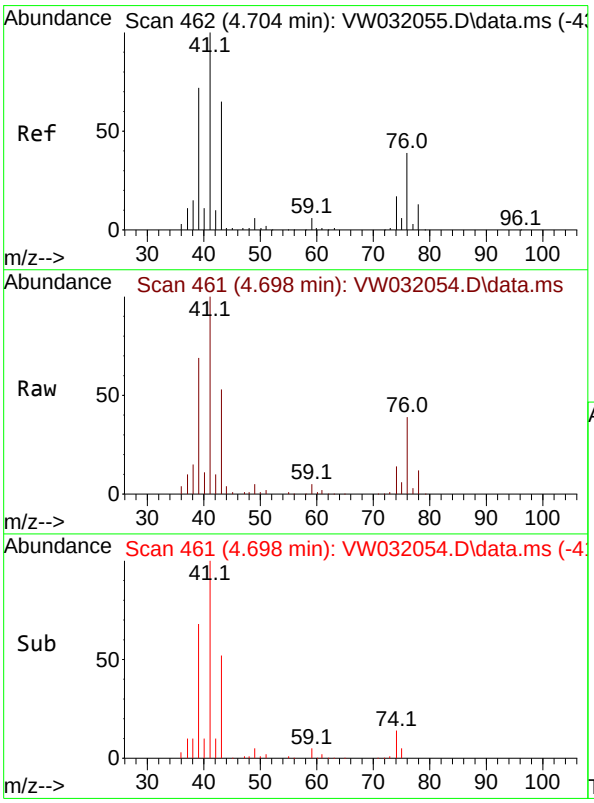
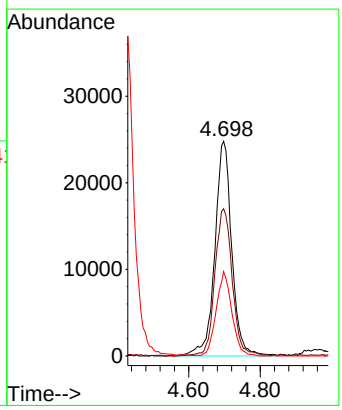


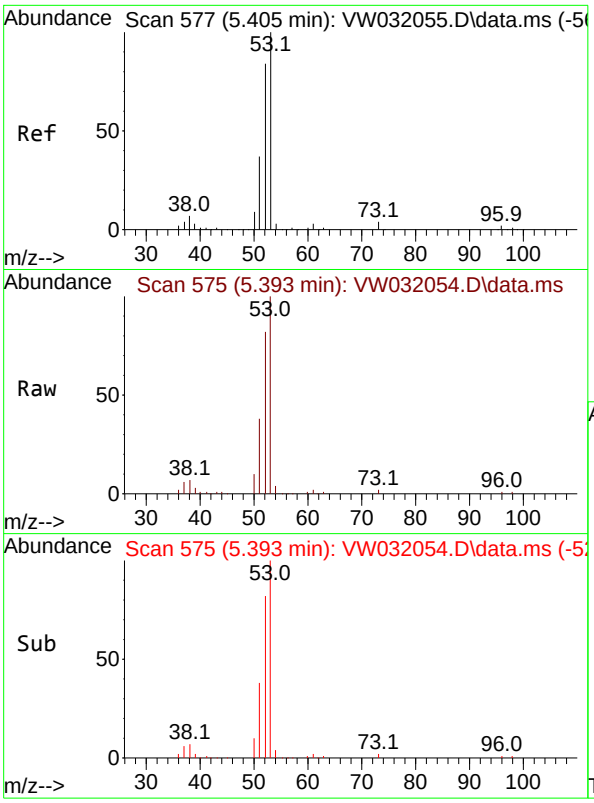




#14
Allyl chloride
Concen: 20.804 ug/l
RT: 4.698 min Scan# 461
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 41 Resp: 81458

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 69.3 | 54.5 | 81.7 |
| 76 | 36.3 | 29.3 | 43.9 |

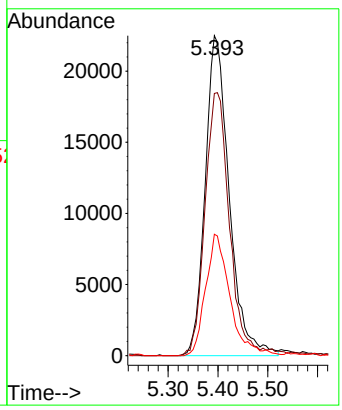





#15
Acrylonitrile
Concen: 93.190 ug/l
RT: 5.393 min Scan# 5
Delta R.T. -0.012 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 53 Resp: 7531

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 84.2 | 66.1 | 99.1 |
| 51 | 38.4 | 29.2 | 43.8 |

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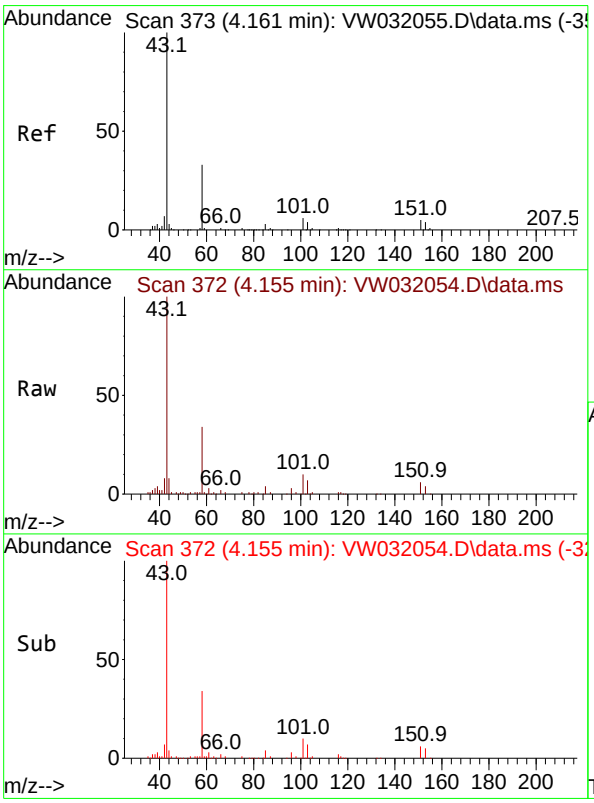
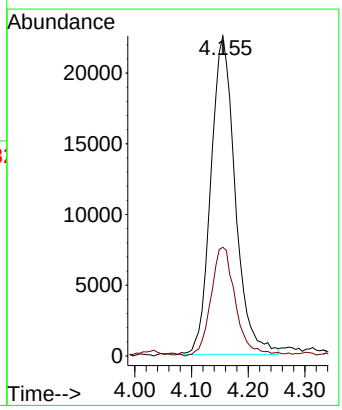
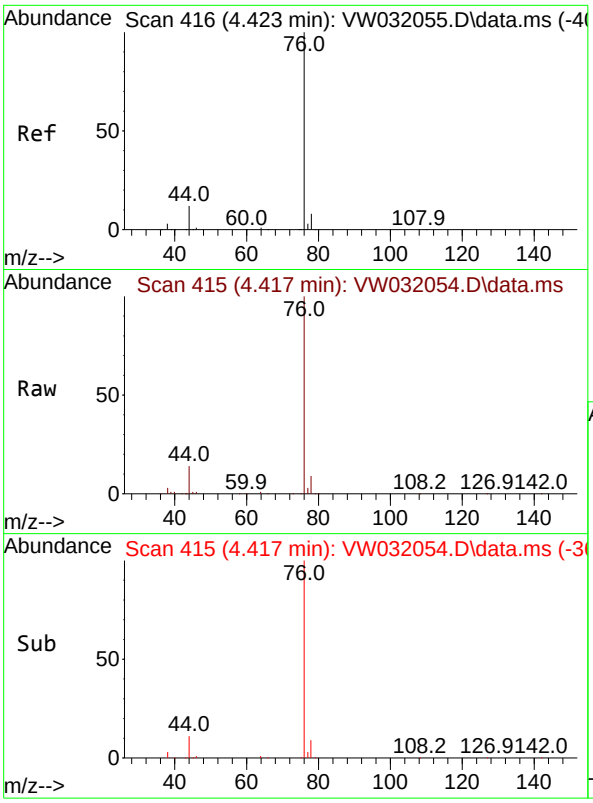



#16
Acetone
Concen: 90.379 ug/l
RT: 4.155 min Scan# 372
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 43 Resp: 67134

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.6 | 26.6 | 39.8 |

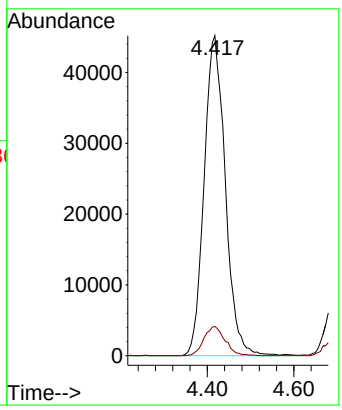





#17
Carbon Disulfide
Concen: 21.222 ug/l
RT: 4.417 min Scan# 4
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 76 Resp: 15324

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.2 | 6.4 | 9.6 |

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VSTDICC020

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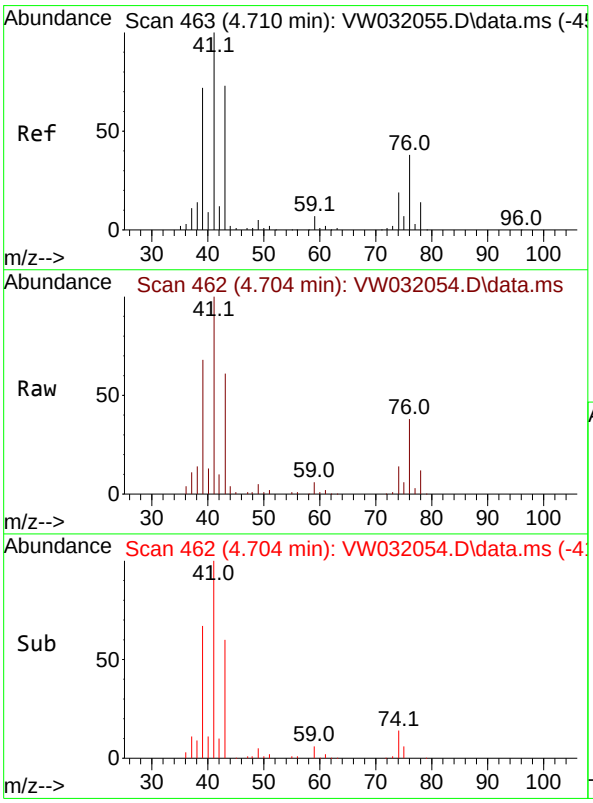
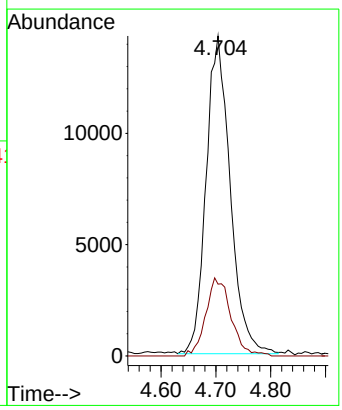
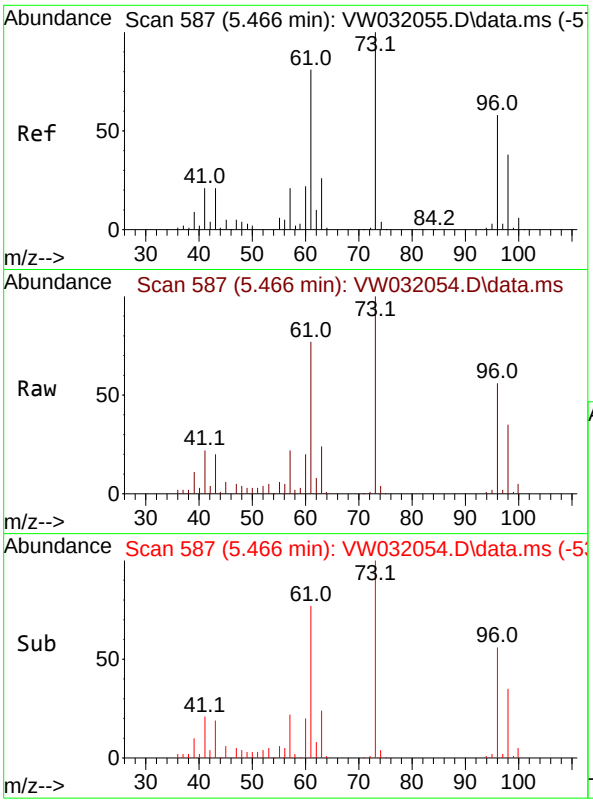



#18
Methyl Acetate
Concen: 18.522 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 43 Resp: 43536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 25.7 | 20.6 | 31.0 |






#19
Methyl tert-butyl Ether
Concen: 20.306 ug/l
RT: 5.466 min Scan# 5
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 73 Resp: 9625

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.9 | 17.2 | 25.8 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

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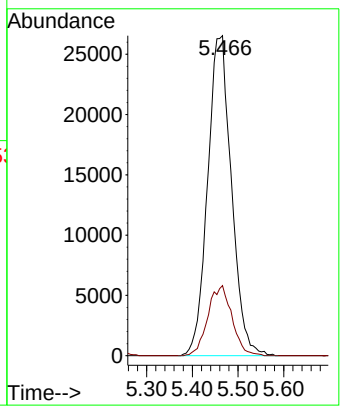
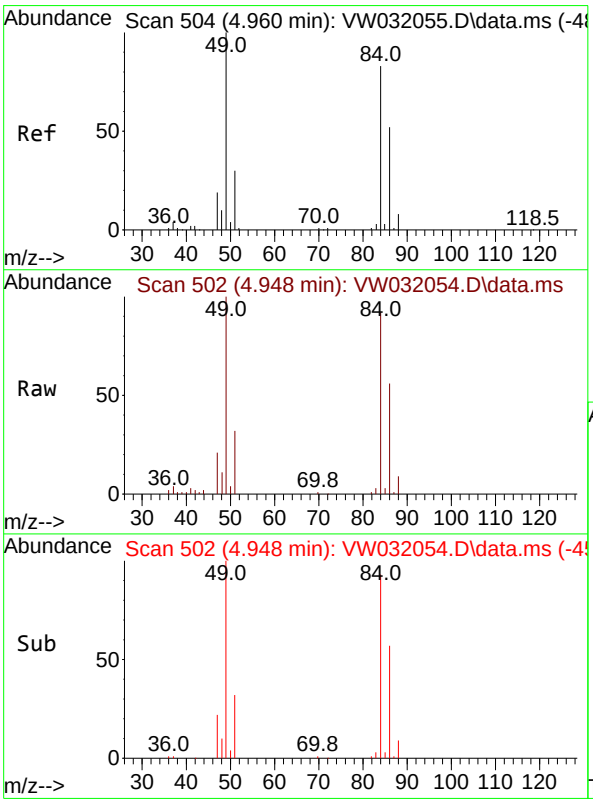
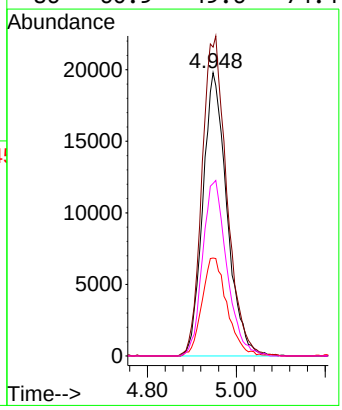


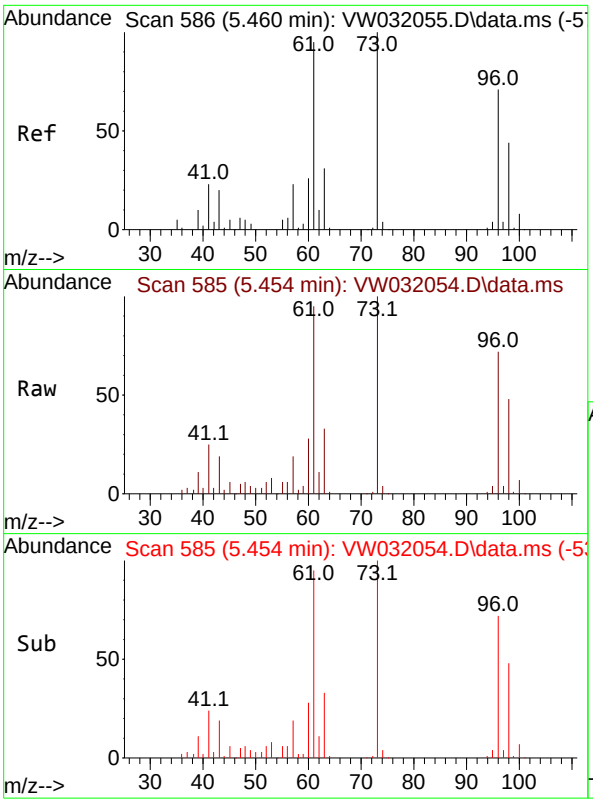




#20
Methylene Chloride
Concen: 21.706 ug/l
RT: 4.948 min Scan# 502
Delta R.T. -0.012 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 84 Resp: 74547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 109.1 | 95.9 | 143.9 |
| 51 | 34.6 | 28.6 | 43.0 |
| 86 | 60.9 | 49.6 | 74.4 |

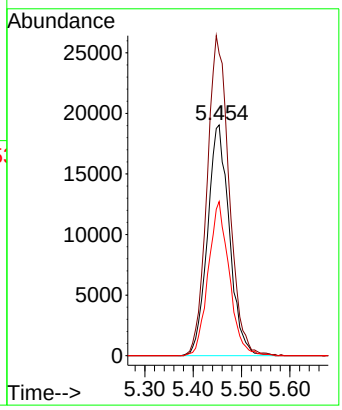





#21
trans-1,2-Dichloroethene
Concen: 20.917 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 96 Resp: 5971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 131.0 | 106.8 | 160.2 |
| 98 | 66.8 | 49.6 | 74.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

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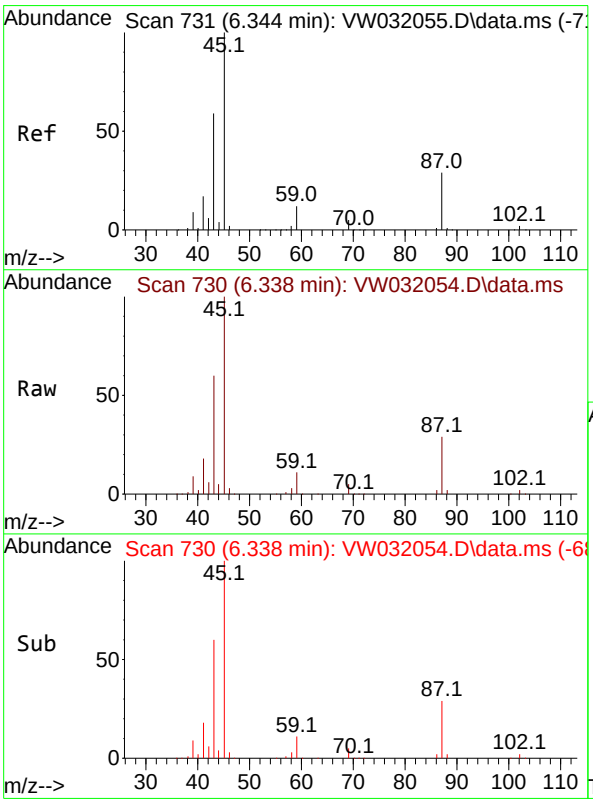
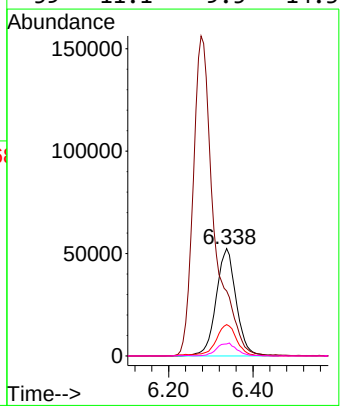
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

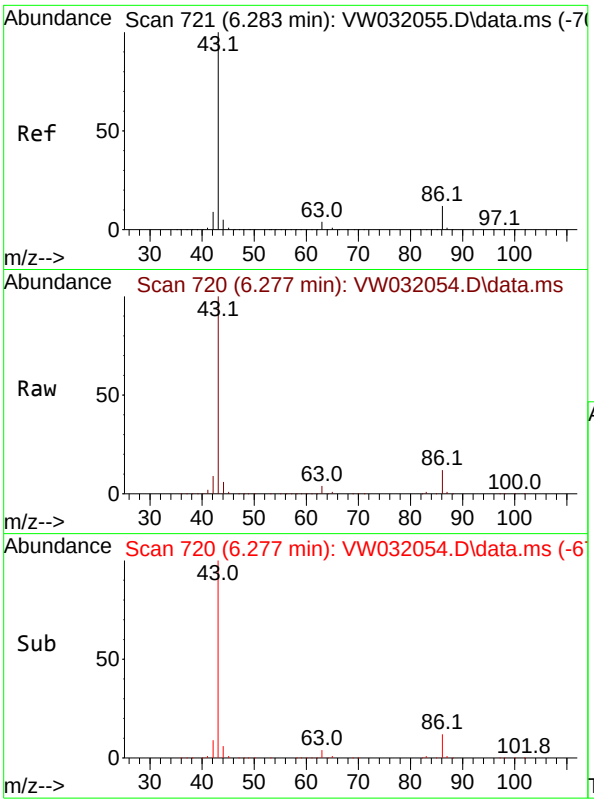



#22
Diisopropyl ether
Concen: 20.846 ug/l
RT: 6.338 min Scan# 730
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 45 Resp: 172071

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 59.6 | 47.0 | 70.4 |
| 87 | 29.2 | 23.8 | 35.8 |
| 59 | 11.1 | 9.5 | 14.3 |






#23
Vinyl Acetate
Concen: 99.617 ug/l
RT: 6.277 min Scan# 7
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 43 Resp: 53986

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 12.0 | 9.4 | 14.0 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

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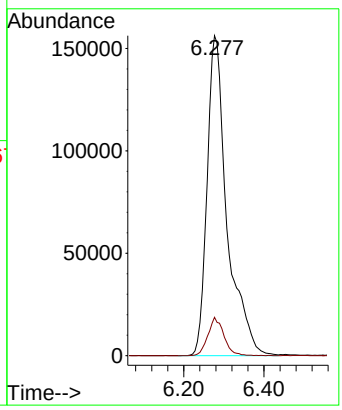
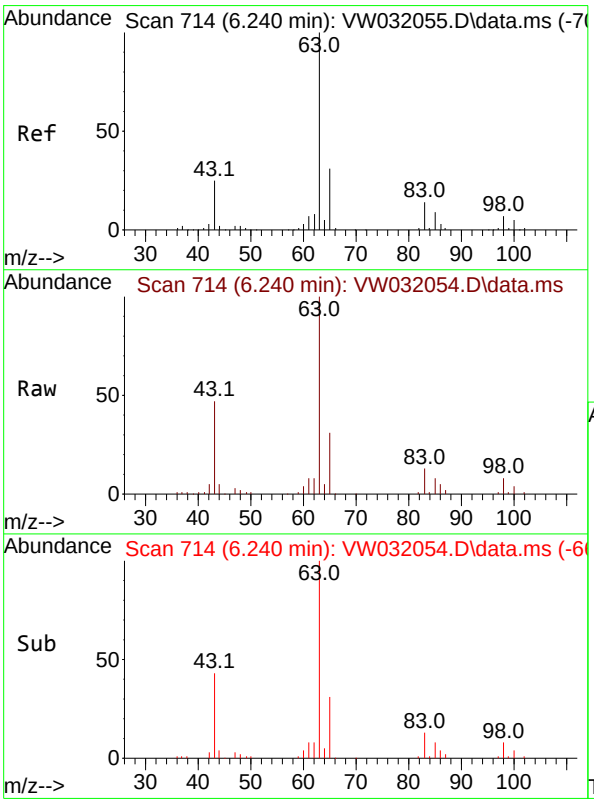
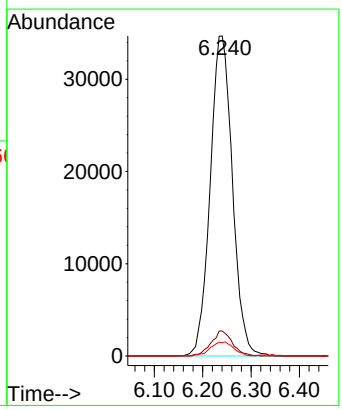


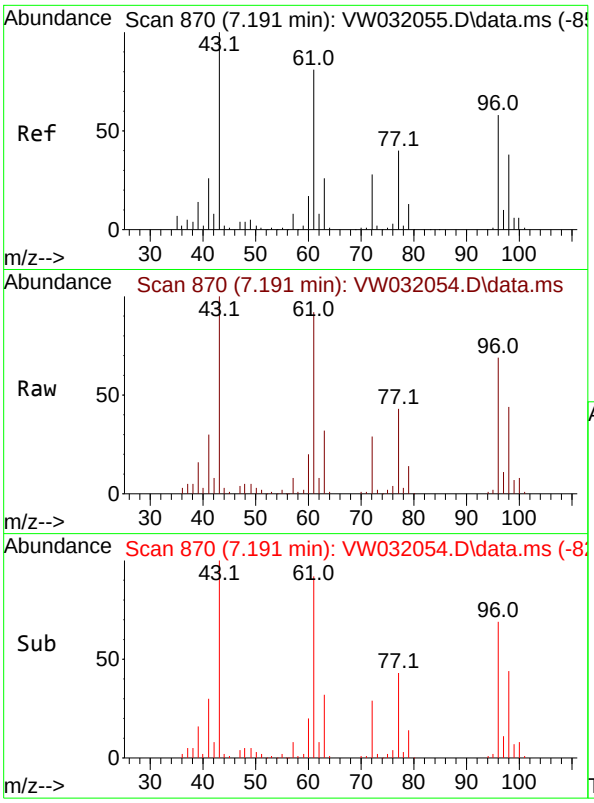




#24
1,1-Dichloroethane
Concen: 21.016 ug/l
RT: 6.240 min Scan# 714
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 63 Resp: 110835

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.8 | 3.7 | 11.1 |
| 100 | 4.1 | 2.5 | 7.4 |






#25
2-Butanone
Concen: 91.114 ug/l
RT: 7.191 min Scan# 8
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 43 Resp: 9619

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 29.2 | 22.3 | 33.5 |

**Instrument :**
MSVOA_W
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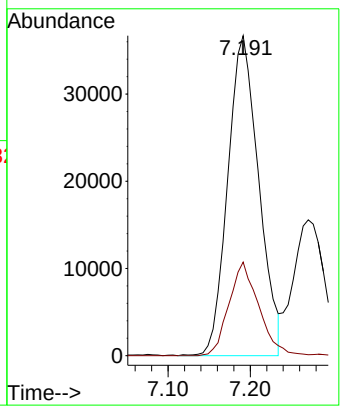
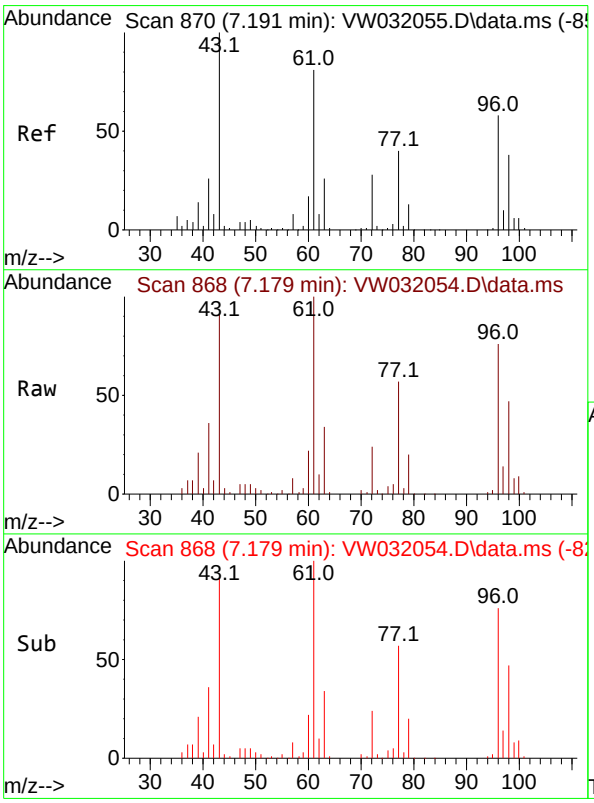
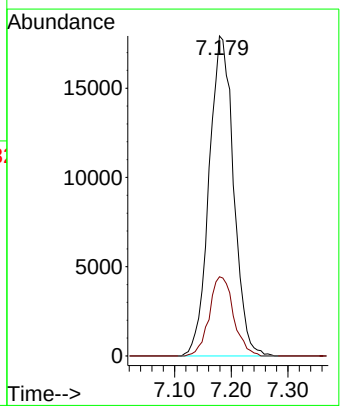


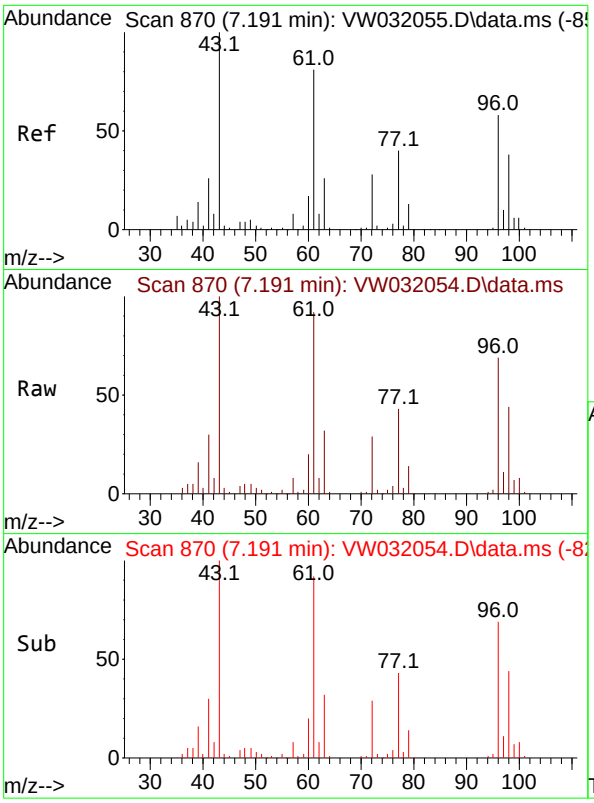




#26
2,2-Dichloropropane
Concen: 20.327 ug/l
RT: 7.179 min Scan# 868
Delta R.T. -0.012 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 77 Resp: 53780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 24.5 | 12.3 | 36.9 |

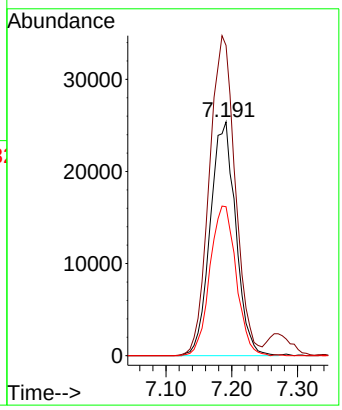





#27
cis-1,2-Dichloroethene
Concen: 20.540 ug/l
RT: 7.191 min Scan# 8
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 96 Resp: 6854

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 139.8 | 0.0 | 281.2 |
| 98 | 65.7 | 0.0 | 130.8 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
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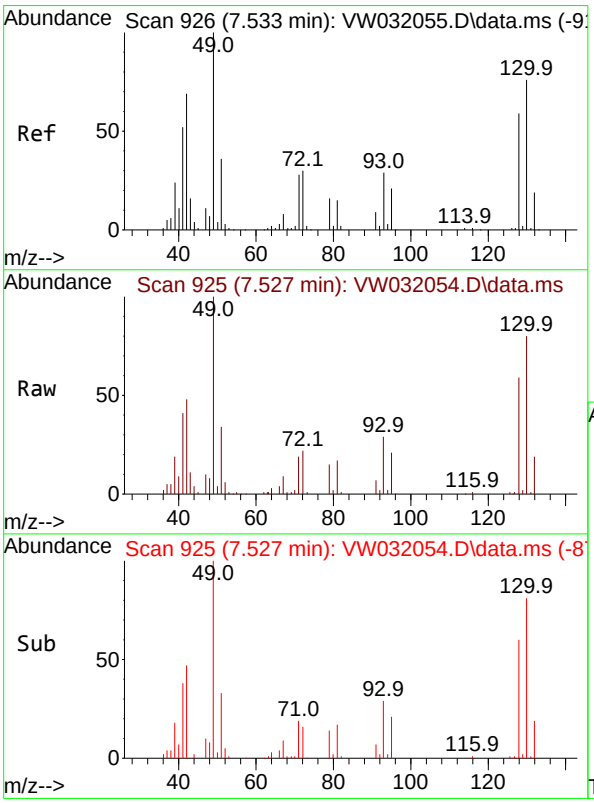
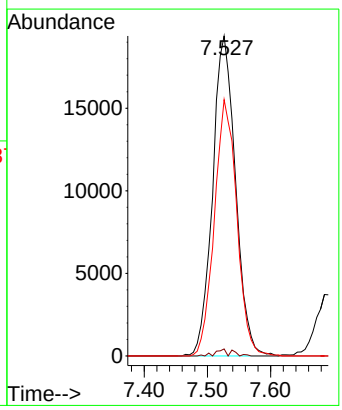
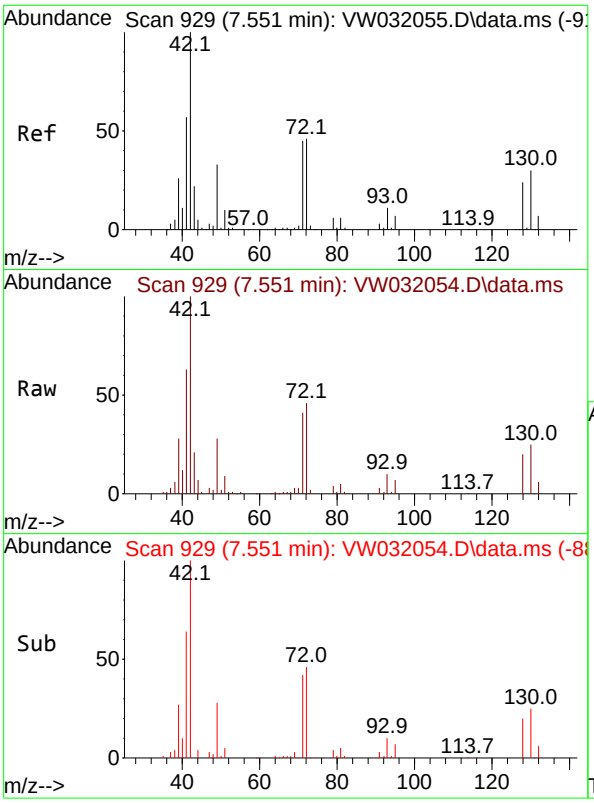



#28
Bromochloromethane
Concen: 20.298 ug/l
RT: 7.527 min Scan# 925
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 49 Resp: 48715

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.0 | 0.0 | 4.2 |
| 130 | 78.4 | 61.9 | 92.9 |

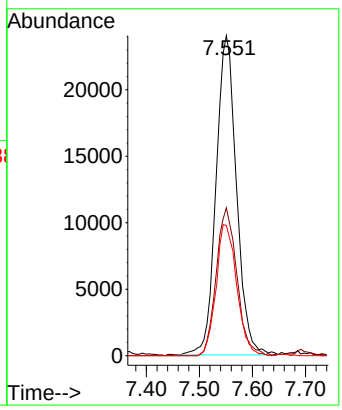





#29
Tetrahydrofuran
Concen: 92.379 ug/l
RT: 7.551 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 42 Resp: 6431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 46.7 | 36.6 | 55.0 |
| 71 | 41.5 | 34.7 | 52.1 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

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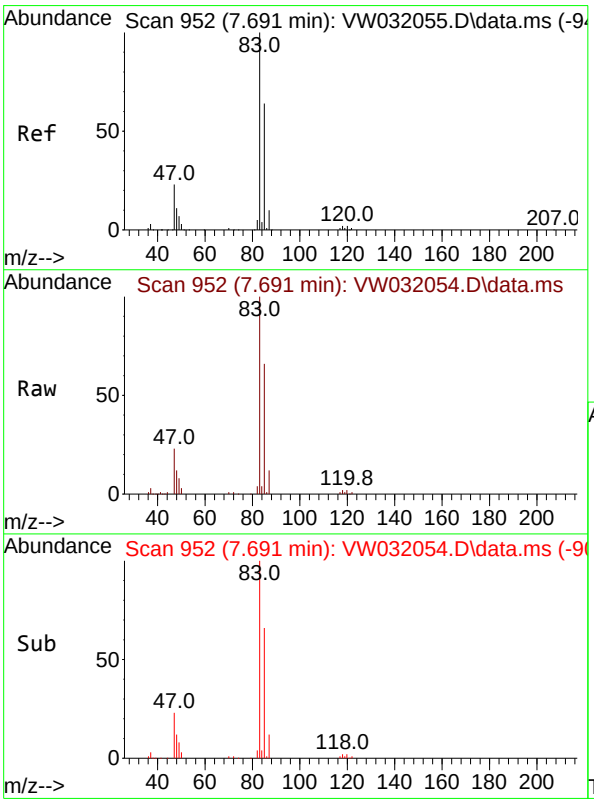
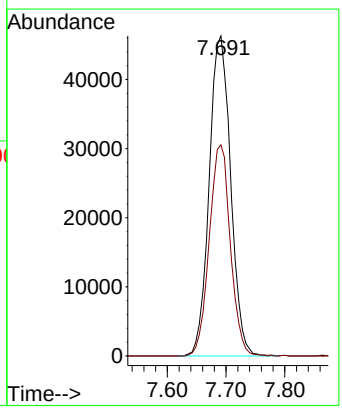
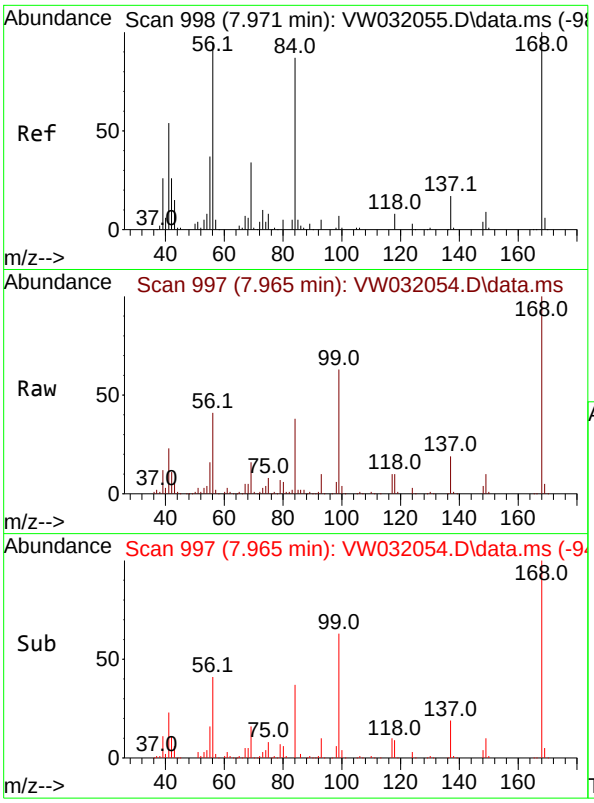



#30
Chloroform
Concen: 21.011 ug/l
RT: 7.691 min Scan# 952
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 83 Resp: 117474

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 66.0 | 51.0 | 76.4 |

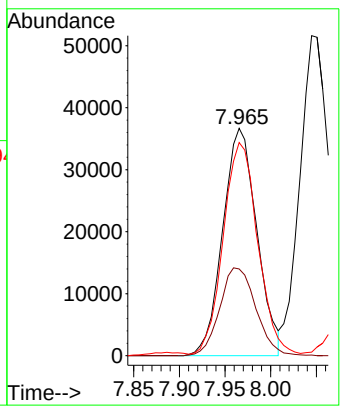





#31
Cyclohexane
Concen: 20.833 ug/l
RT: 7.965 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 56 Resp: 9525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 38.2 | 28.6 | 42.8 |
| 84 | 92.4 | 73.0 | 109.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
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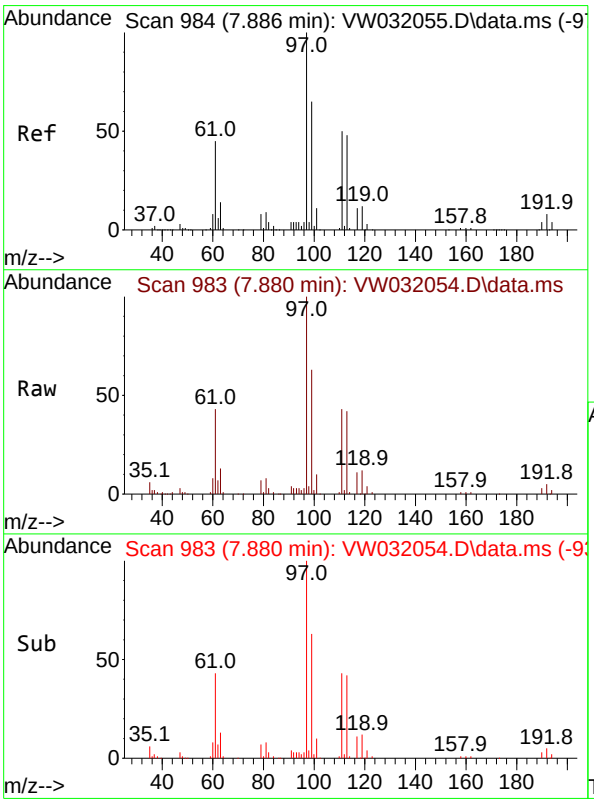
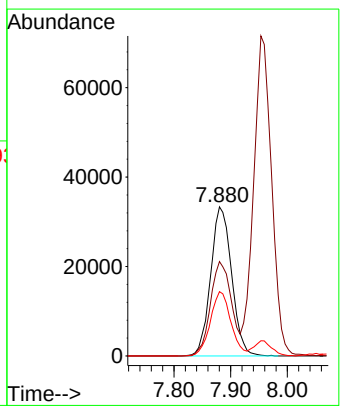
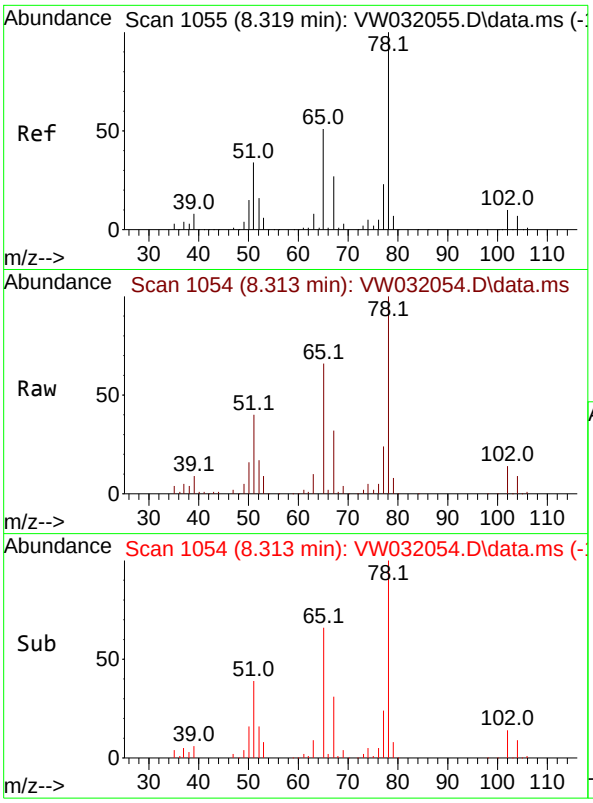



#32
1,1,1-Trichloroethane
Concen: 21.078 ug/l
RT: 7.880 min Scan# 983
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 97 Resp: 85600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.5 | 51.8 | 77.8 |
| 61 | 42.4 | 35.9 | 53.9 |

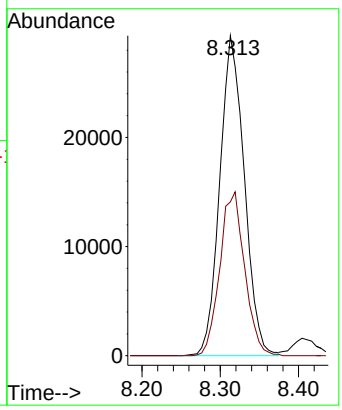





#33
1,2-Dichloroethane-d4
Concen: 19.904 ug/l
RT: 8.313 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 65 Resp: 6385

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.8 | 0.0 | 102.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
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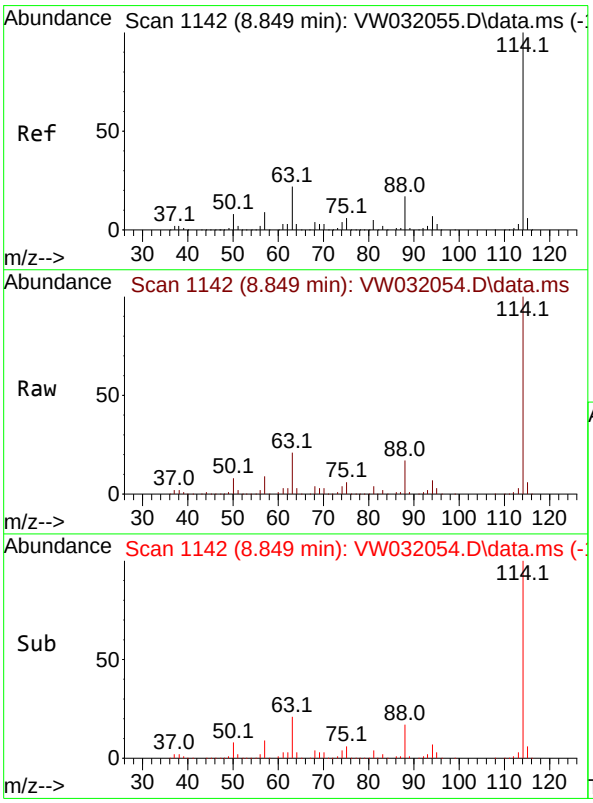
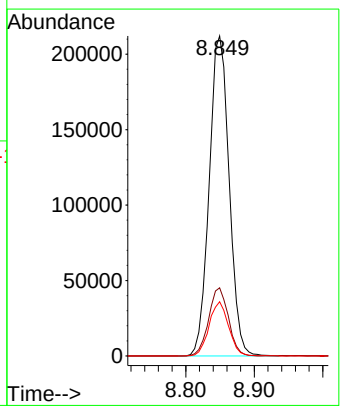
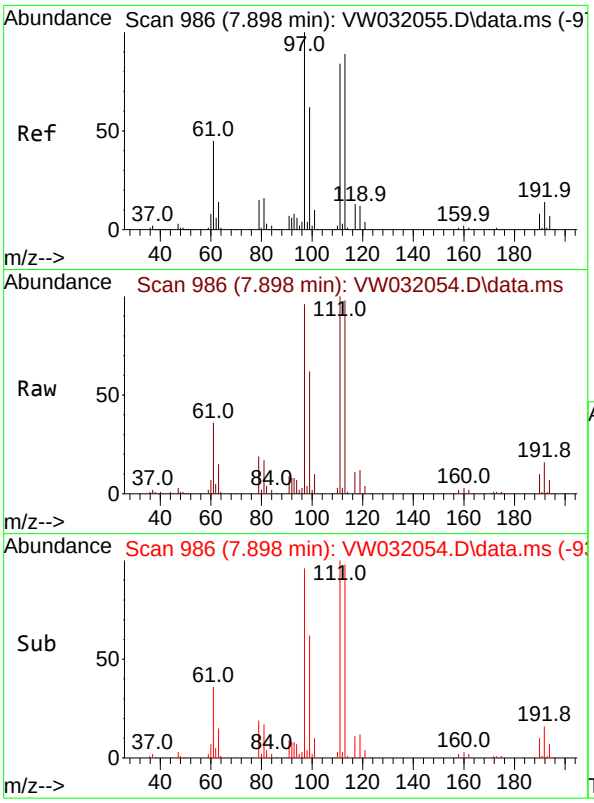



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:114 Resp: 428395

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.3 | 0.0 | 43.0 |
| 88 | 16.9 | 0.0 | 33.8 |

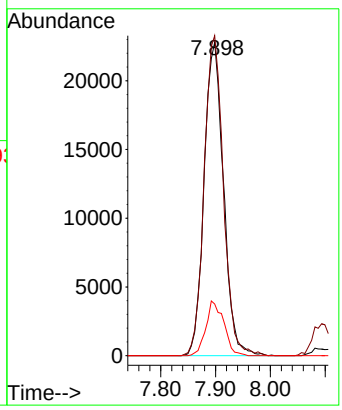





#35
Dibromofluoromethane
Concen: 20.158 ug/l
RT: 7.898 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:113 Resp: 5578

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.5 | 80.1 | 120.1 |
| 192 | 16.3 | 13.1 | 19.7 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
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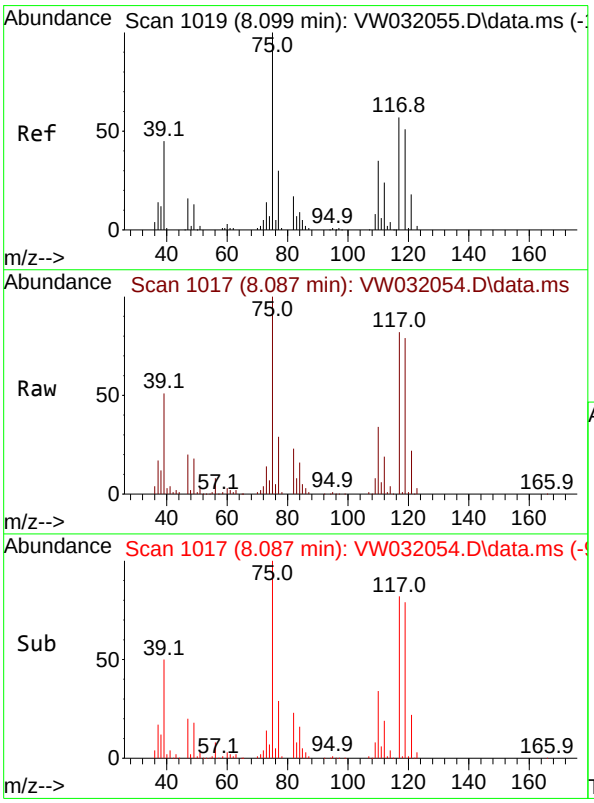
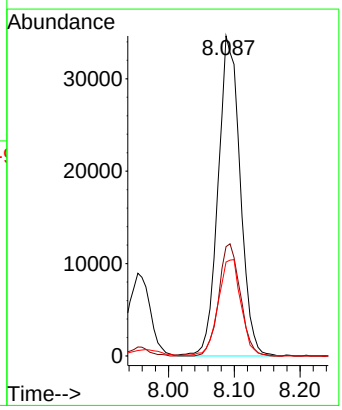
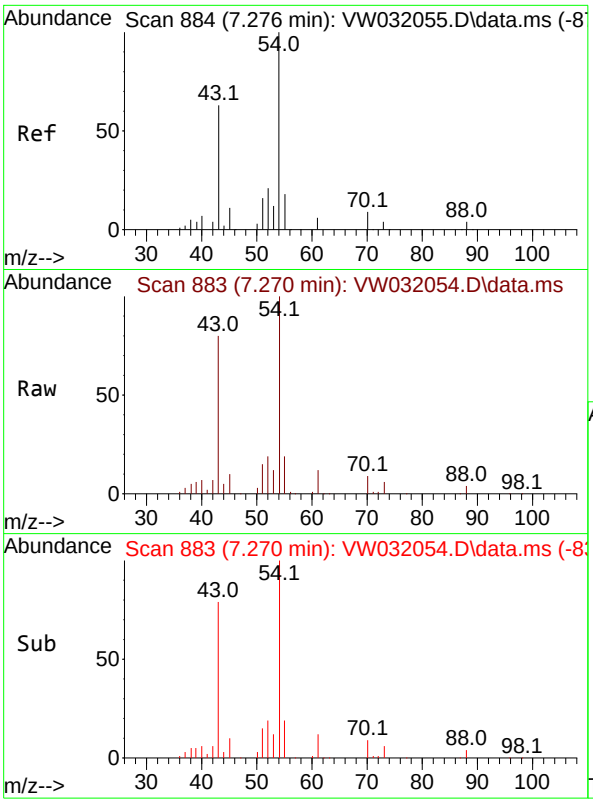



#36
1,1-Dichloropropene
Concen: 20.712 ug/l
RT: 8.087 min Scan# 1017
Delta R.T. -0.012 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 75 Resp: 80811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 34.4 | 17.4 | 52.2 |
| 77 | 31.4 | 24.7 | 37.1 |

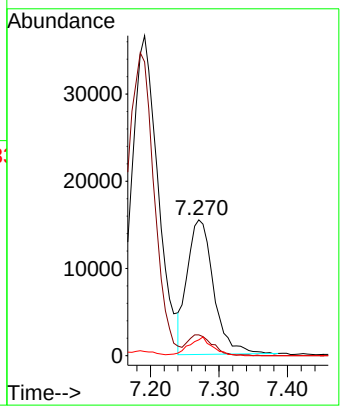





#37
Ethyl Acetate
Concen: 17.945 ug/l
RT: 7.270 min Scan# 8
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 43 Resp: 4123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.7 | 11.8 | 17.6 |
| 70 | 12.3 | 9.4 | 14.0 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
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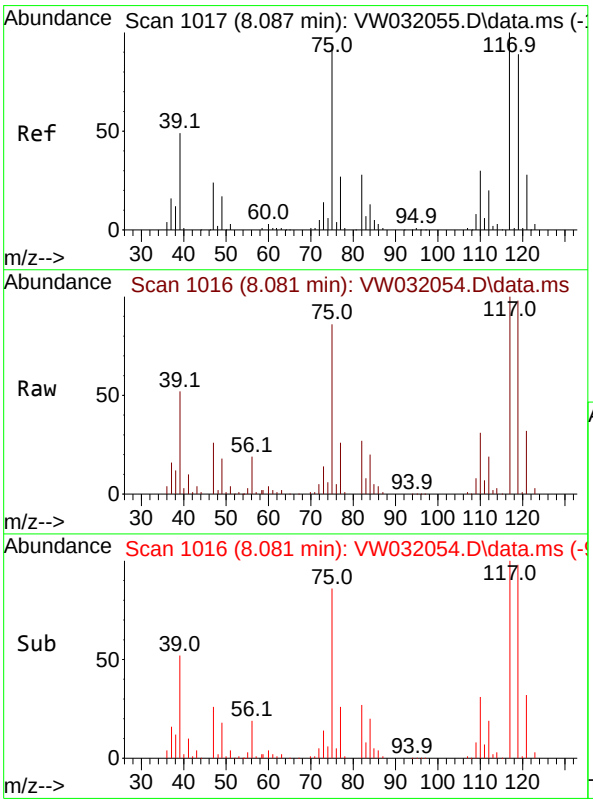
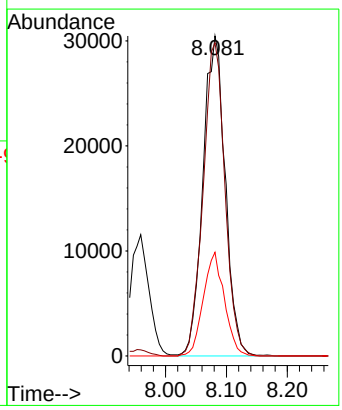
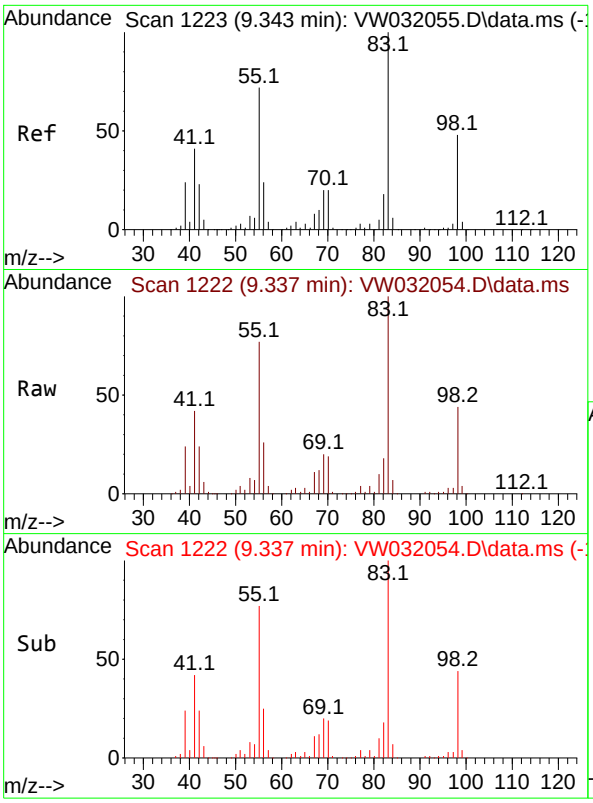



#38
Carbon Tetrachloride
Concen: 20.527 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:117 Resp: 77289

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 97.8 | 71.4 | 107.2 |
| 121 | 32.4 | 22.3 | 33.5 |

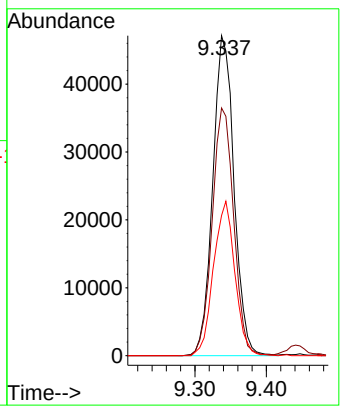





#39
Methylcyclohexane
Concen: 20.484 ug/l
RT: 9.337 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 83 Resp: 9741

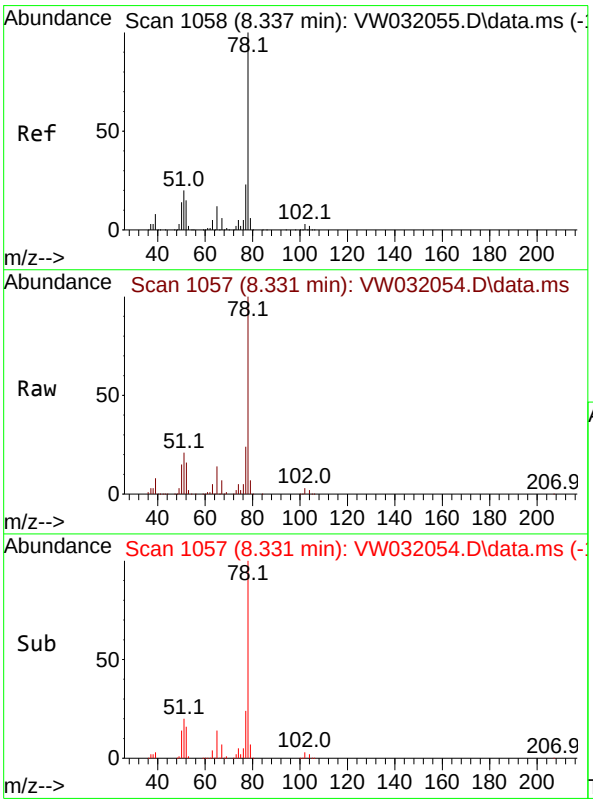
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 77.4 | 57.9 | 86.9 |
| 98 | 43.8 | 38.3 | 57.5 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

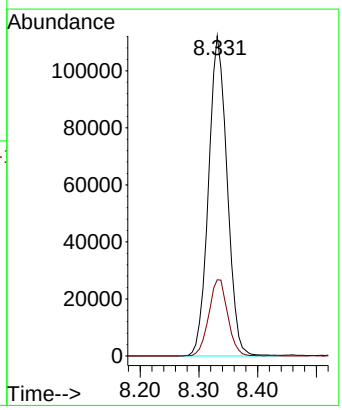
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

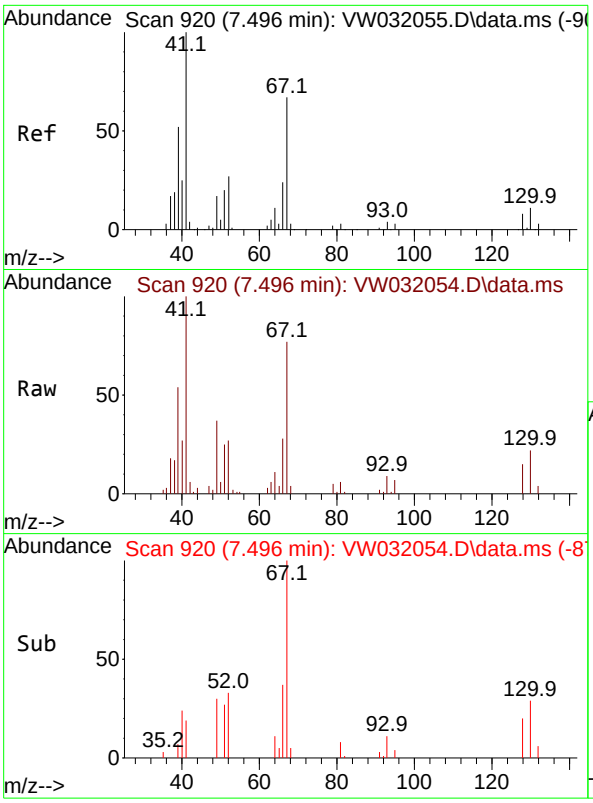



#40
Benzene
Concen: 20.333 ug/l
RT: 8.331 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 78 Resp: 246590

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.8 | 18.4 | 27.6 |

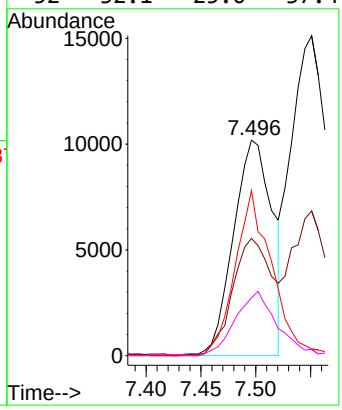





#41
Methacrylonitrile
Concen: 19.242 ug/l
RT: 7.496 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 41 Resp: 2507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 55.4 | 42.6 | 63.8 |
| 67 | 73.2 | 61.0 | 91.4 |
| 52 | 32.1 | 25.0 | 37.4 |




**Instrument :**
MSVOA_W
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VSTDICC020

**Manual Integrations**
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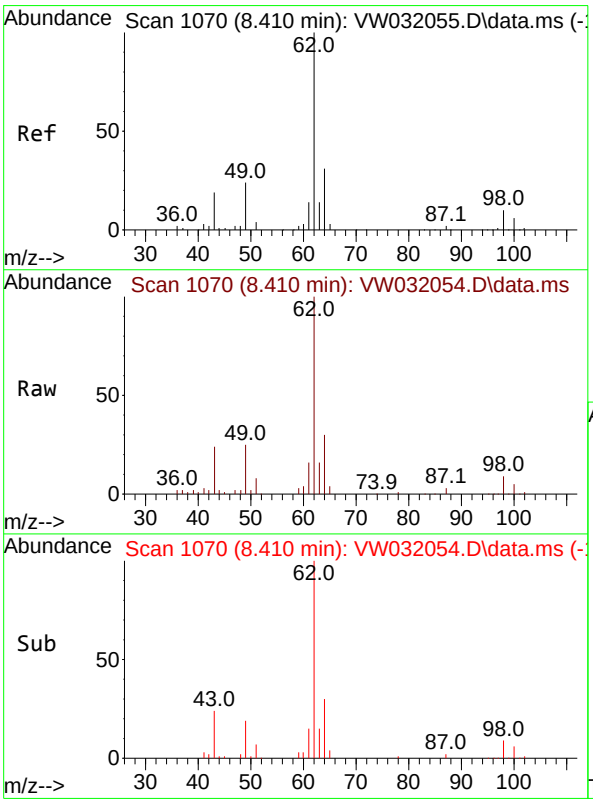
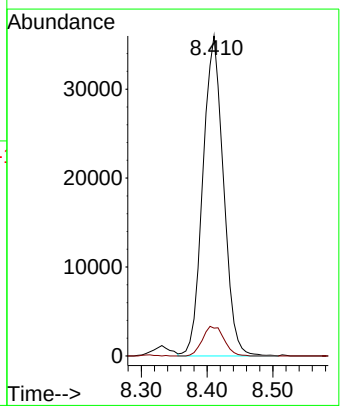
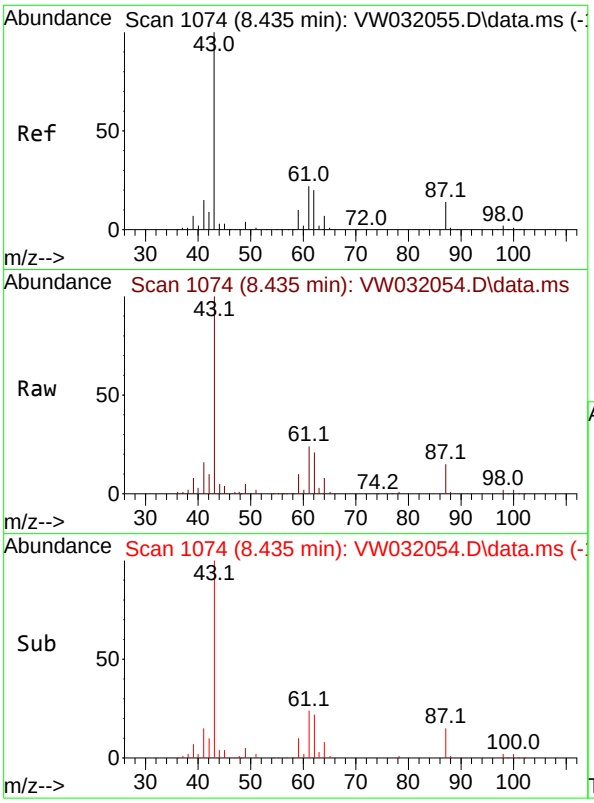



#42
1,2-Dichloroethane
Concen: 20.239 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 62 Resp: 78543

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.7 | 0.0 | 19.8 |

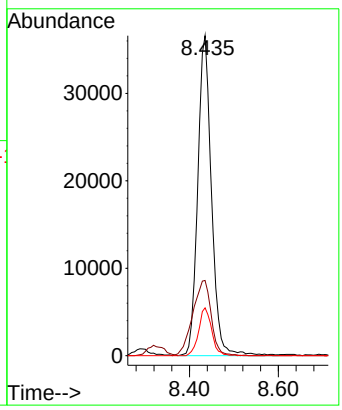





#43
Isopropyl Acetate
Concen: 18.660 ug/l
RT: 8.435 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 43 Resp: 7888

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 31.3 | 23.8 | 35.8 |
| 87 | 14.1 | 11.7 | 17.5 |




**Instrument :**
MSVOA_W
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VSTDICC020

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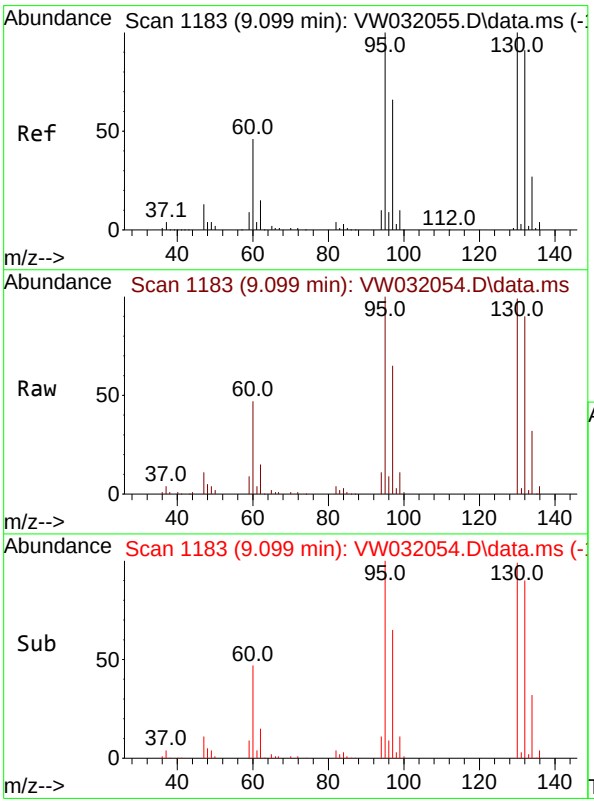
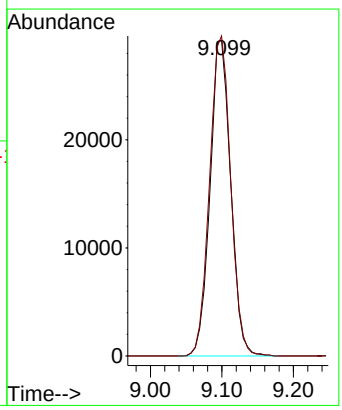
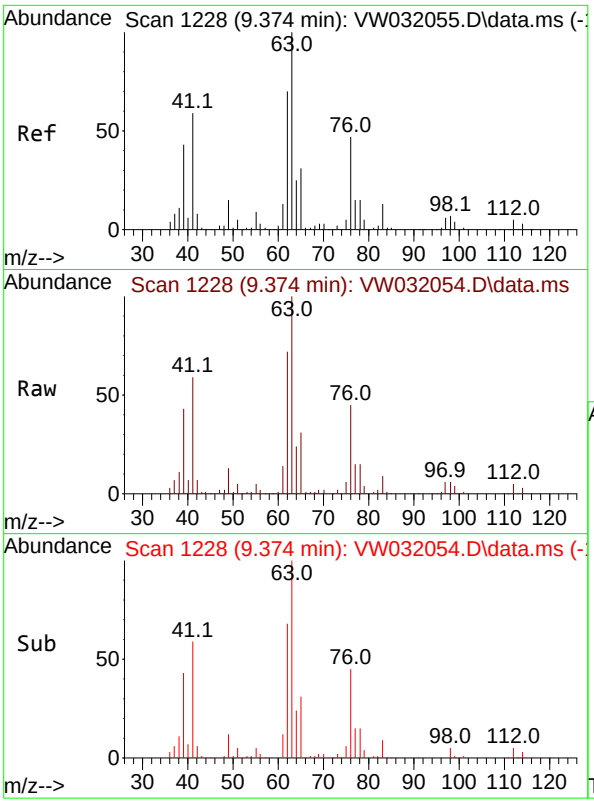



#44
Trichloroethene
Concen: 20.302 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:130 Resp: 58636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 101.3 | 0.0 | 200.6 |

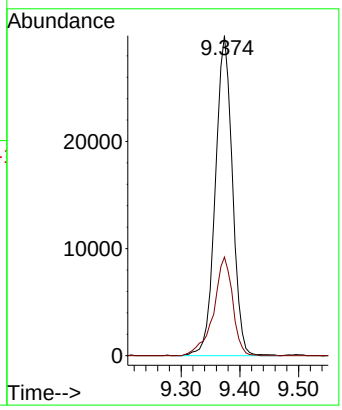





#45
1,2-Dichloropropane
Concen: 20.597 ug/l
RT: 9.374 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 63 Resp: 6034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.8 | 24.6 | 36.8 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

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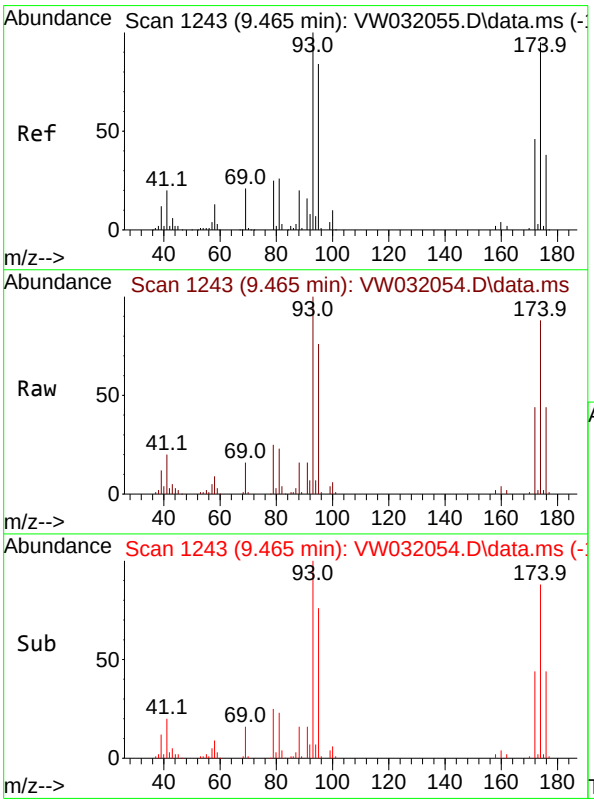
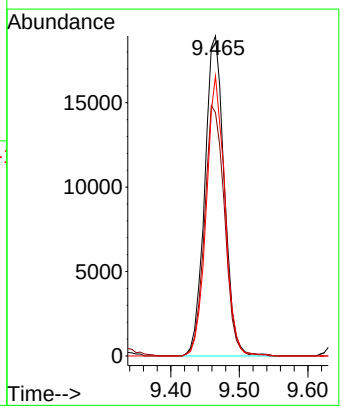
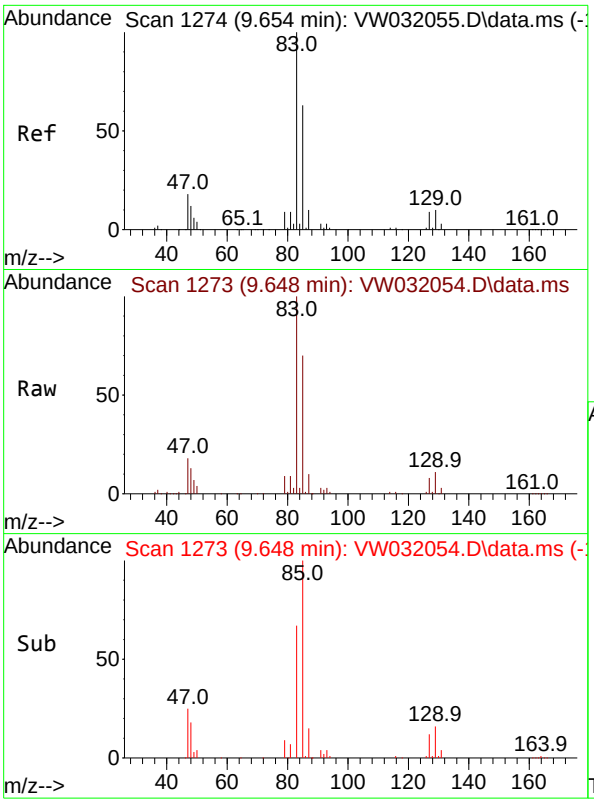



#46
Dibromomethane
Concen: 19.873 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 93 Resp: 37580

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 80.1 | 65.3 | 97.9 |
| 174 | 83.3 | 68.6 | 102.8 |

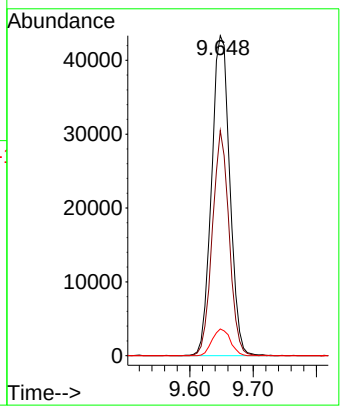





#47
Bromodichloromethane
Concen: 19.869 ug/l
RT: 9.648 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 83 Resp: 8657

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 70.4 | 50.6 | 75.8 |
| 127 | 8.3 | 6.9 | 10.3 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

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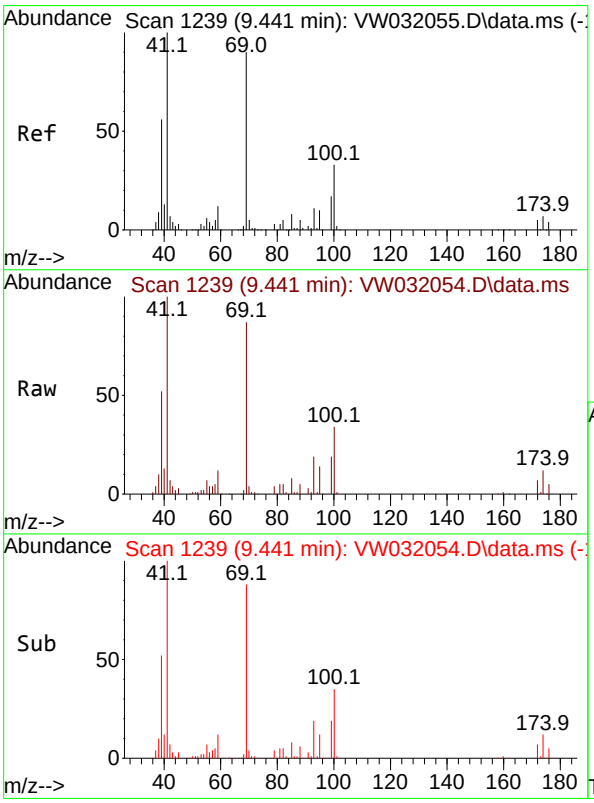
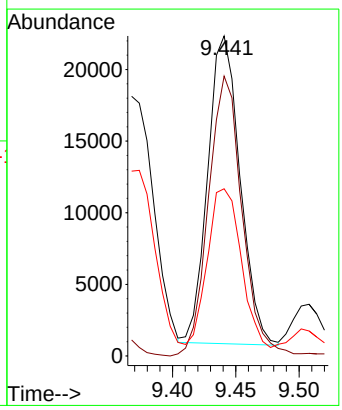
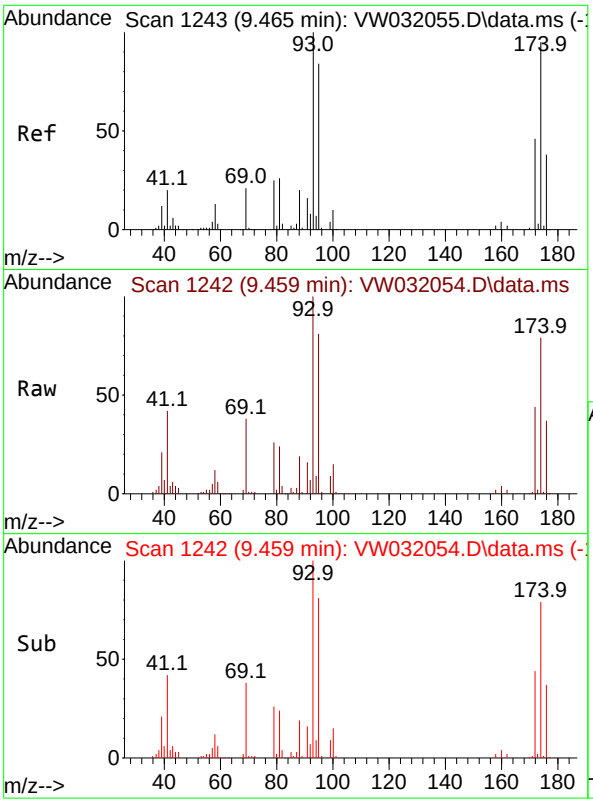



#48
Methyl methacrylate
Concen: 18.704 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 41 Resp: 38175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 94.6 | 73.0 | 109.6 |
| 39 | 53.7 | 45.0 | 67.4 |






#49
1,4-Dioxane
Concen: 364.998 ug/l
RT: 9.459 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 88 Resp: 892

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 24.7 | 20.6 | 30.8 |
| 58 | 78.5 | 60.4 | 90.6 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
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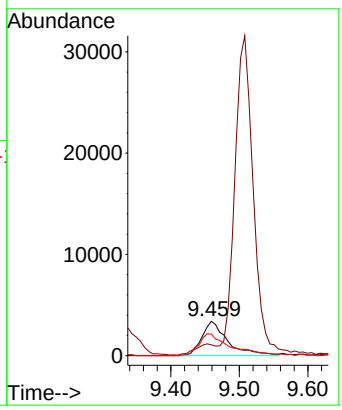
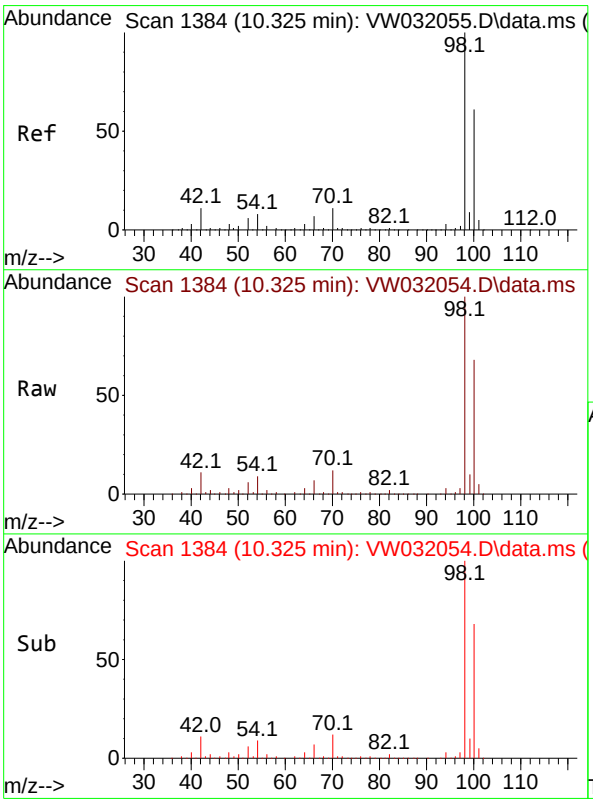
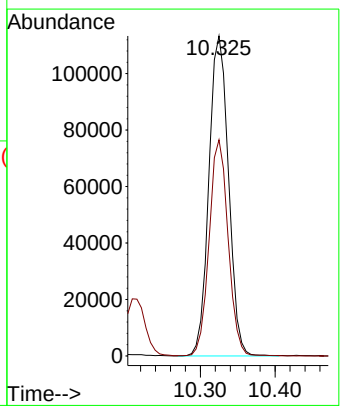


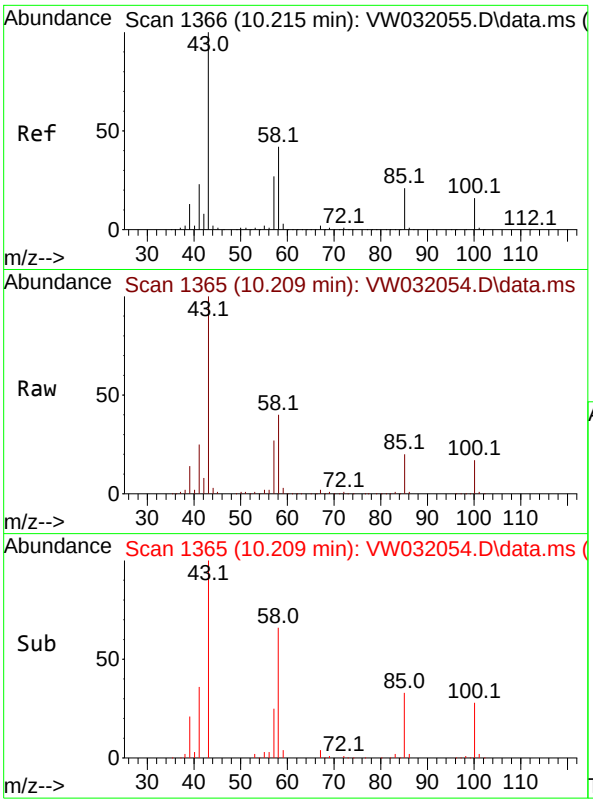




#50
Toluene-d8
Concen: 20.212 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 98 Resp: 206901

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.5 | 51.1 | 76.7 |






#51
4-Methyl-2-Pentanone
Concen: 92.472 ug/l
RT: 10.209 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 43 Resp: 22066

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 40.7 | 33.1 | 49.7 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

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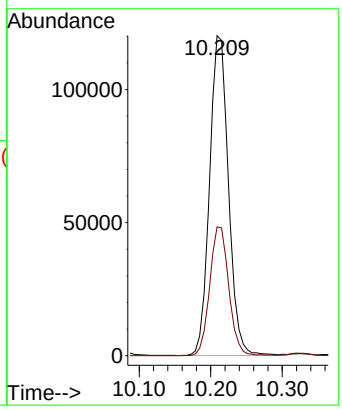
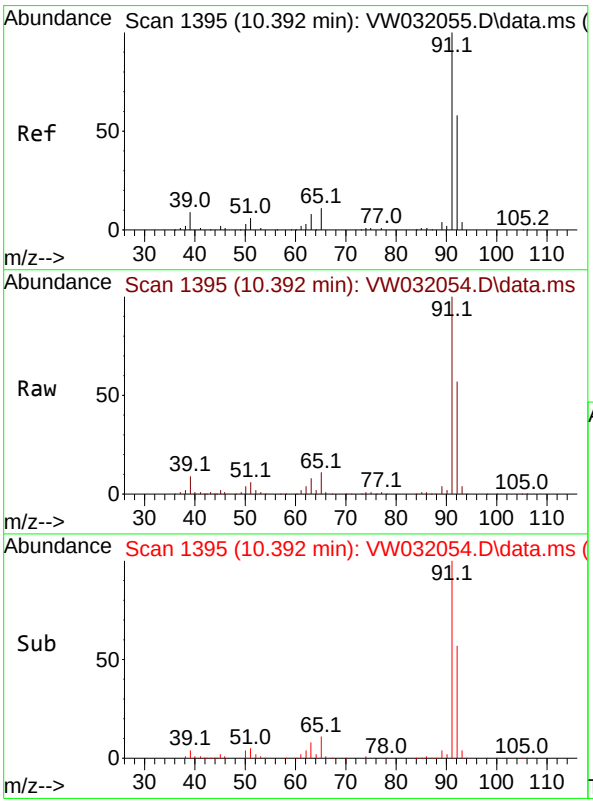
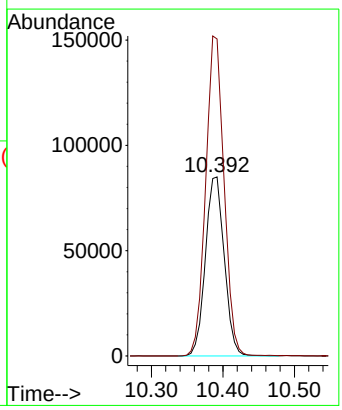


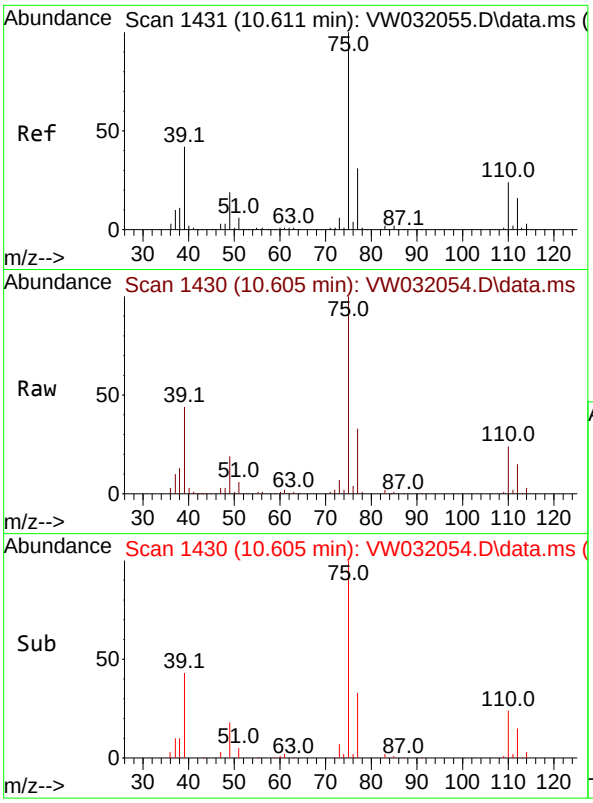




#52
Toluene
Concen: 20.418 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 92 Resp: 155974

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 173.6 | 136.3 | 204.5 |

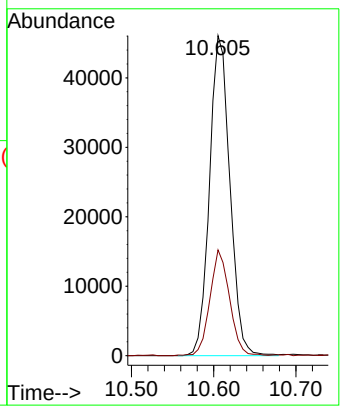





#53
t-1,3-Dichloropropene
Concen: 19.463 ug/l
RT: 10.605 min Scan# 14
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 75 Resp: 7945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.9 | 25.0 | 37.6 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
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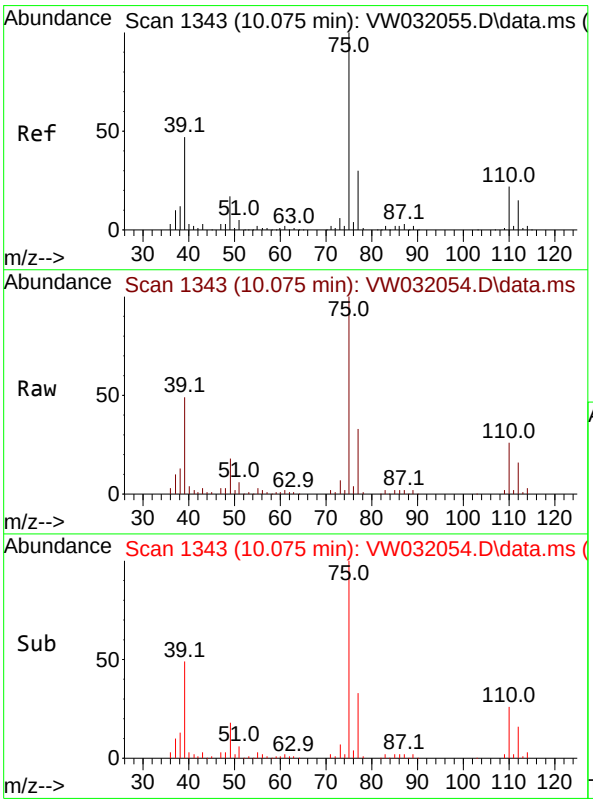
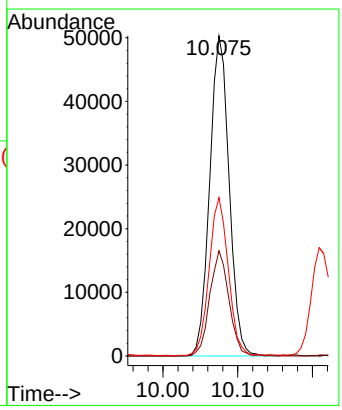
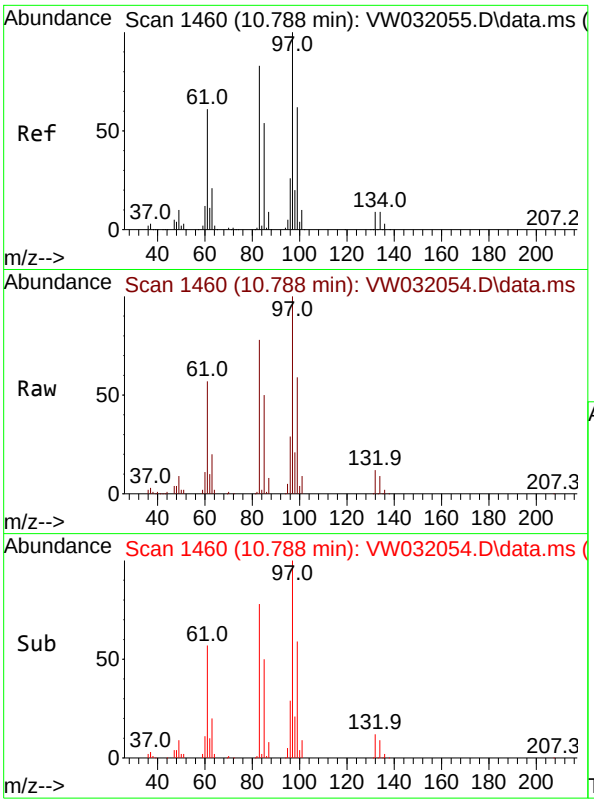



#54
cis-1,3-Dichloropropene
Concen: 19.612 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 75 Resp: 90828

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.9 | 24.0 | 36.0 |
| 39 | 49.3 | 37.8 | 56.8 |

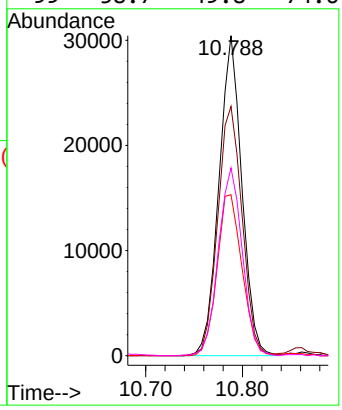





#55
1,1,2-Trichloroethane
Concen: 19.888 ug/l
RT: 10.788 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 97 Resp: 4997

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 77.9 | 66.4 | 99.6 |
| 85 | 50.3 | 43.1 | 64.7 |
| 99 | 58.7 | 49.8 | 74.6 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

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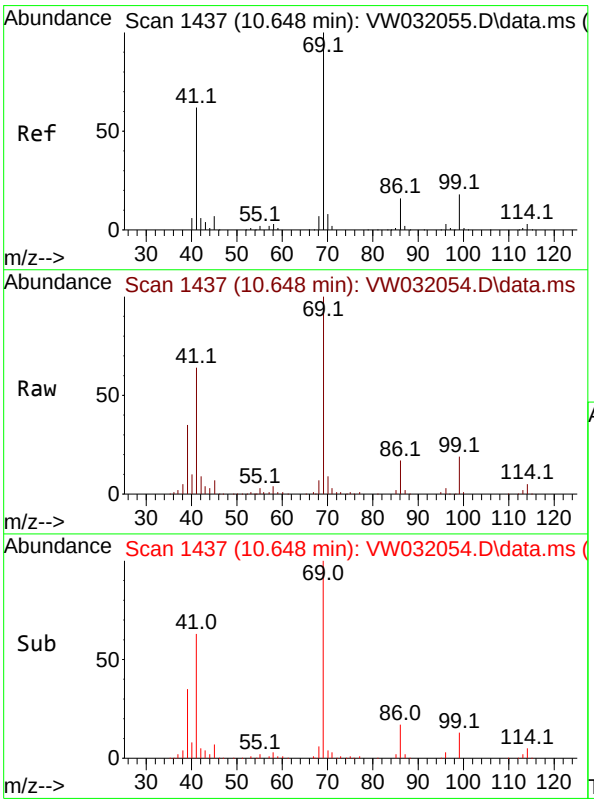
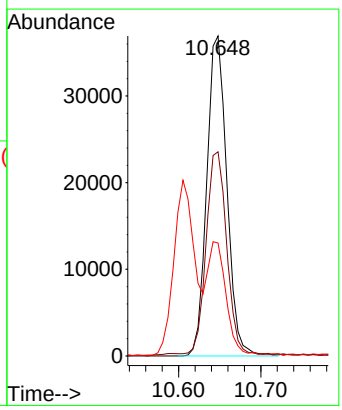
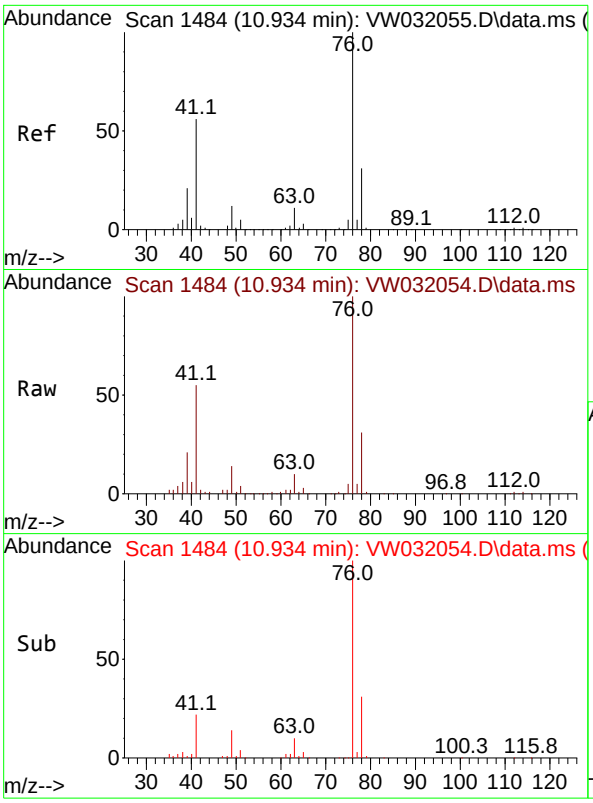



#56
Ethyl methacrylate
Concen: 18.645 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 69 Resp: 62694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 67.2 | 51.2 | 76.8 |
| 39 | 31.8 | 25.4 | 38.0 |

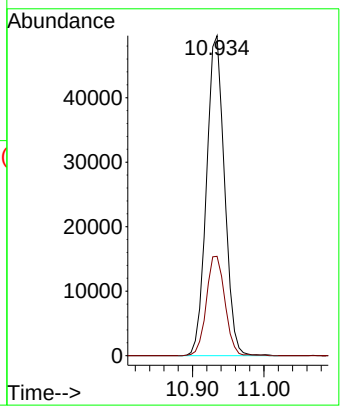





#57
1,3-Dichloropropane
Concen: 19.790 ug/l
RT: 10.934 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 76 Resp: 8667

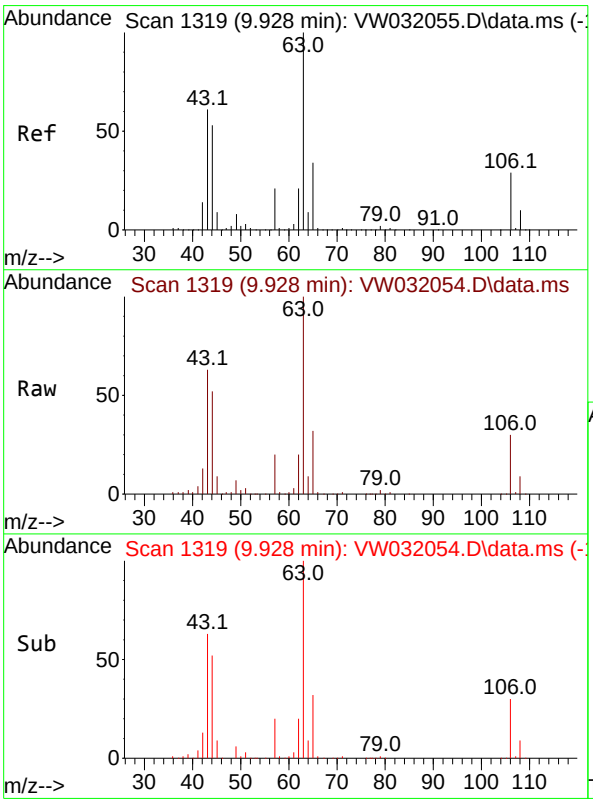
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.2 | 25.8 | 38.6 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

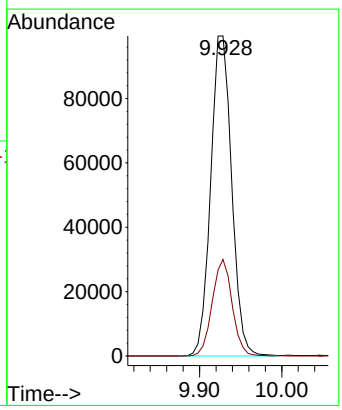
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

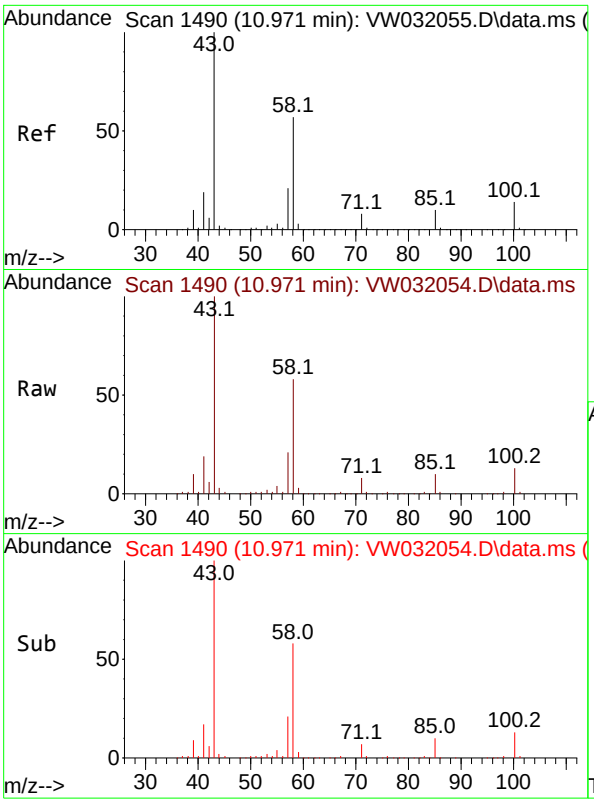



#58
2-Chloroethyl Vinyl ether
Concen: 94.809 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 63 Resp: 176339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 28.5 | 23.5 | 35.3 |

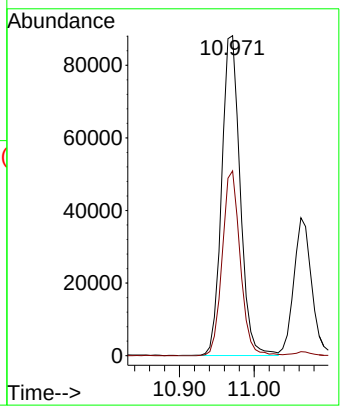





#59
2-Hexanone
Concen: 91.530 ug/l
RT: 10.971 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 43 Resp: 15126

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 56.4 | 28.3 | 85.0 |




**Instrument :**
MSVOA_W
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VSTDICC020

**Manual Integrations**
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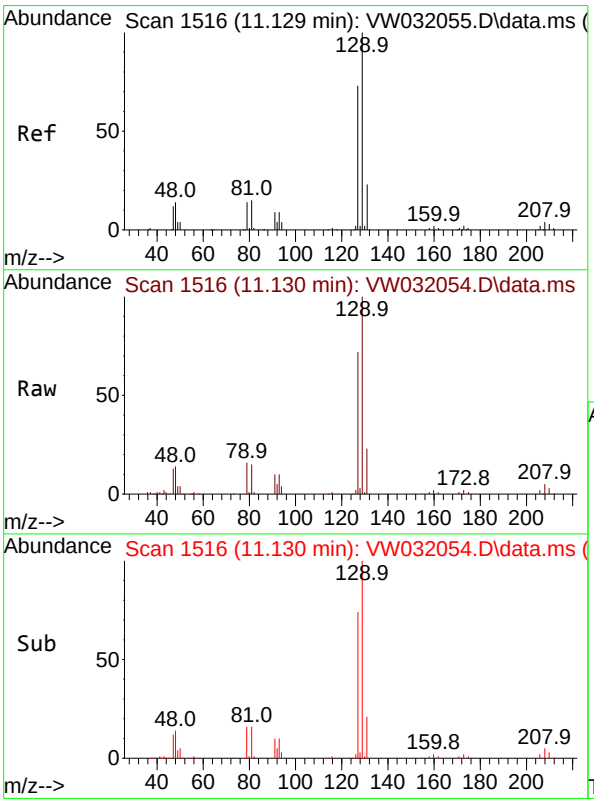
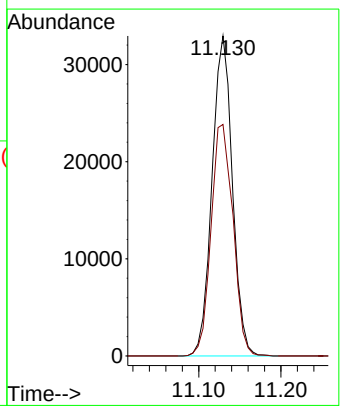
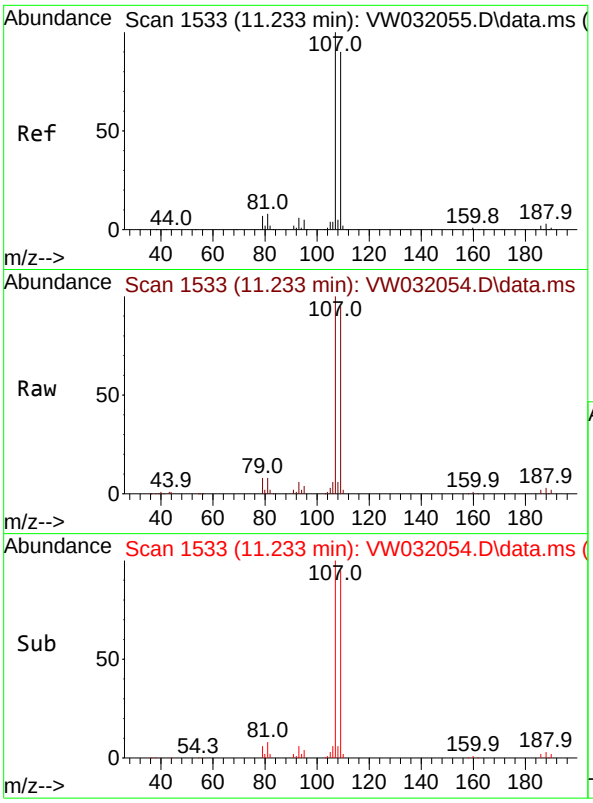



#60
Dibromochloromethane
Concen: 19.721 ug/l
RT: 11.130 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:129 Resp: 56607

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.0 | 39.0 | 116.9 |

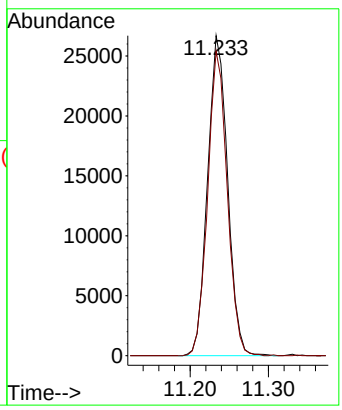





#61
1,2-Dibromoethane
Concen: 19.371 ug/l
RT: 11.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:107 Resp: 4730

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.0 | 74.2 | 111.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
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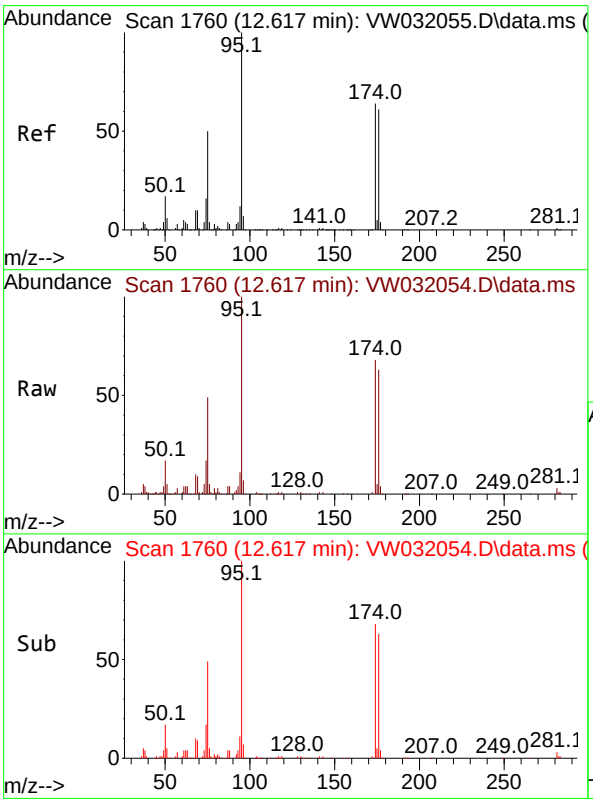
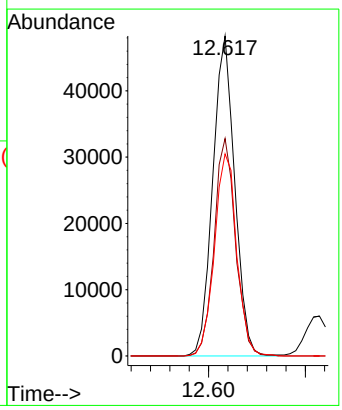
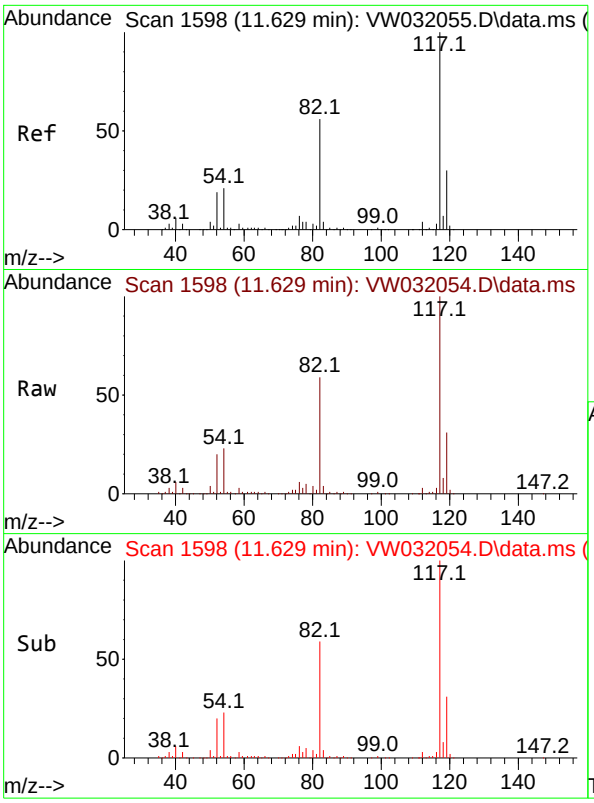



#62
4-Bromofluorobenzene
Concen: 20.149 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 95 Resp: 76008

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 66.3 | 0.0 | 129.0 |
| 176 | 64.1 | 0.0 | 124.6 |

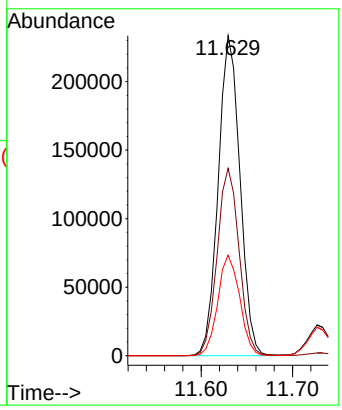





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:117 Resp: 38685

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 58.5 | 45.0 | 67.4 |
| 119 | 31.4 | 24.2 | 36.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

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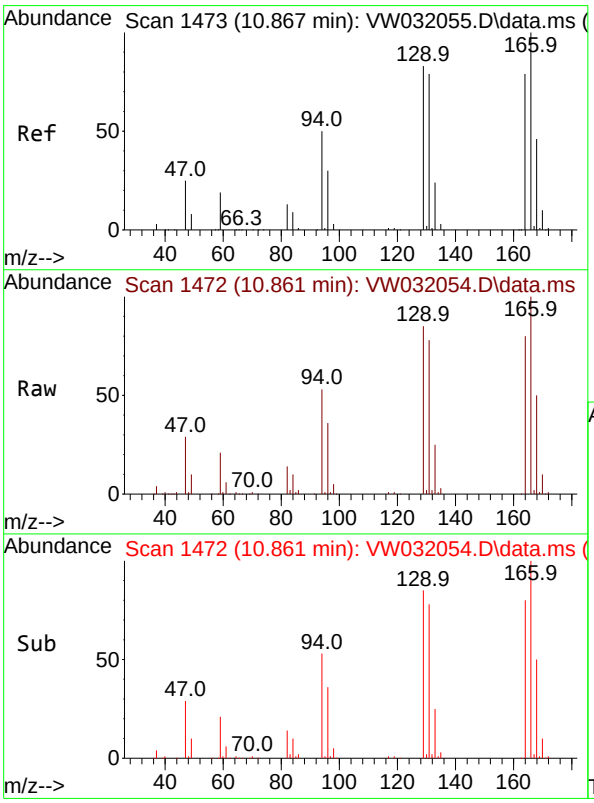
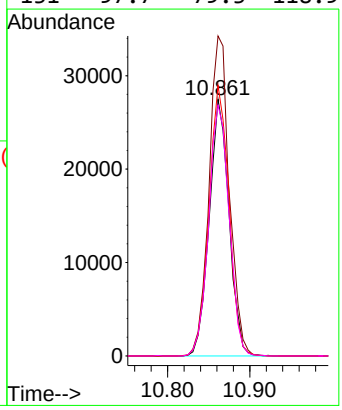
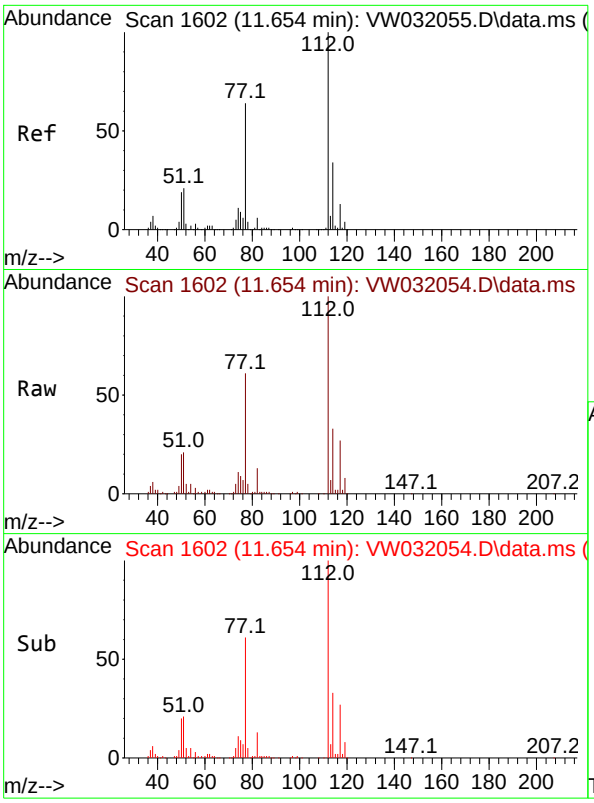



#64
Tetrachloroethene
Concen: 20.434 ug/l
RT: 10.861 min Scan# 1472
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:164 Resp: 45660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 124.7 | 100.9 | 151.3 |
| 129 | 105.4 | 83.6 | 125.4 |
| 131 | 97.7 | 79.3 | 118.9 |

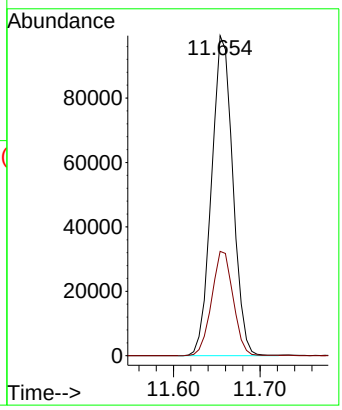





#65
Chlorobenzene
Concen: 20.169 ug/l
RT: 11.654 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:112 Resp: 16983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.6 | 26.9 | 40.3 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

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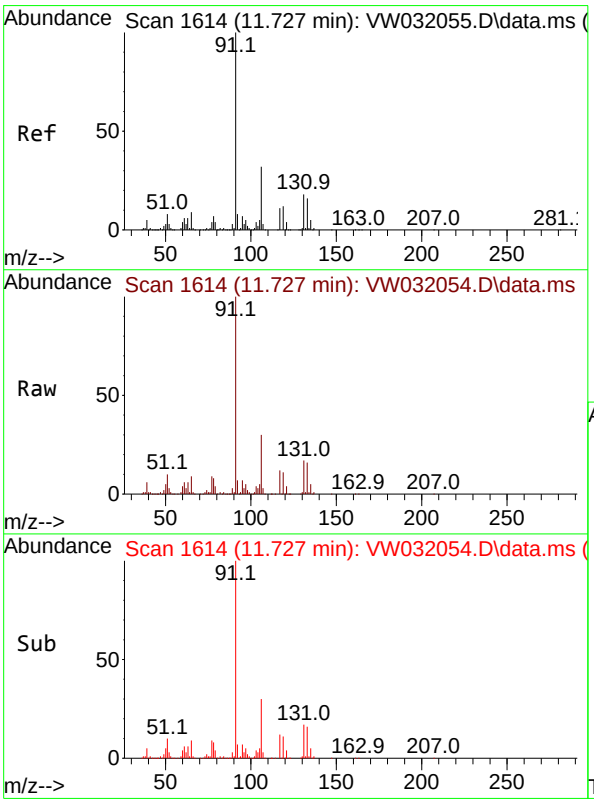
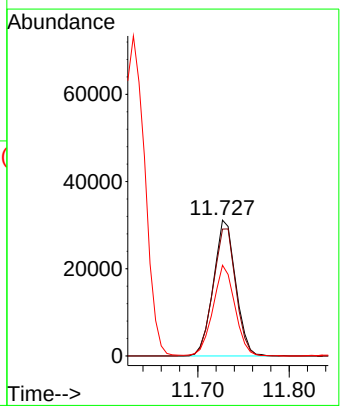
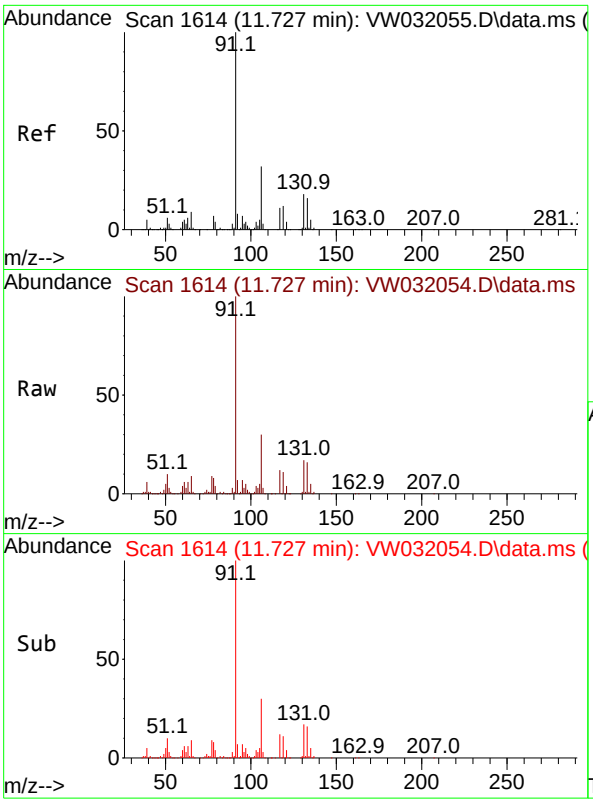



#66
1,1,1,2-Tetrachloroethane
Concen: 20.150 ug/l
RT: 11.727 min Scan# 1614
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:131 Resp: 52937

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.2 | 47.3 | 142.0 |
| 119 | 65.6 | 34.5 | 103.5 |






#67
Ethyl Benzene
Concen: 20.836 ug/l
RT: 11.727 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

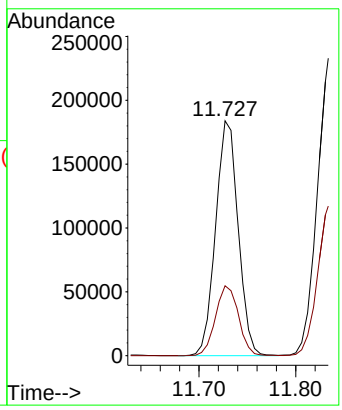
Tgt Ion: 91 Resp: 29719

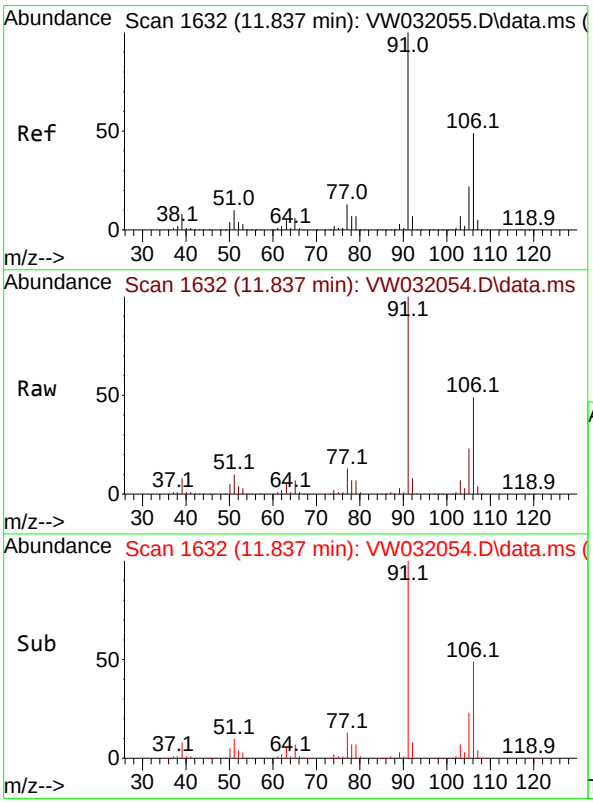
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.8 | 25.4 | 38.0 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

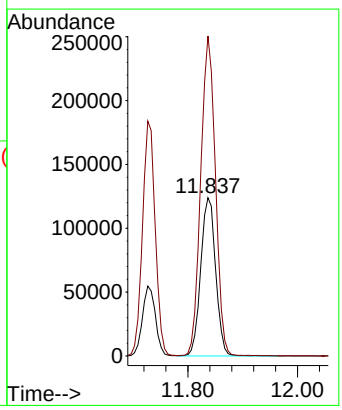


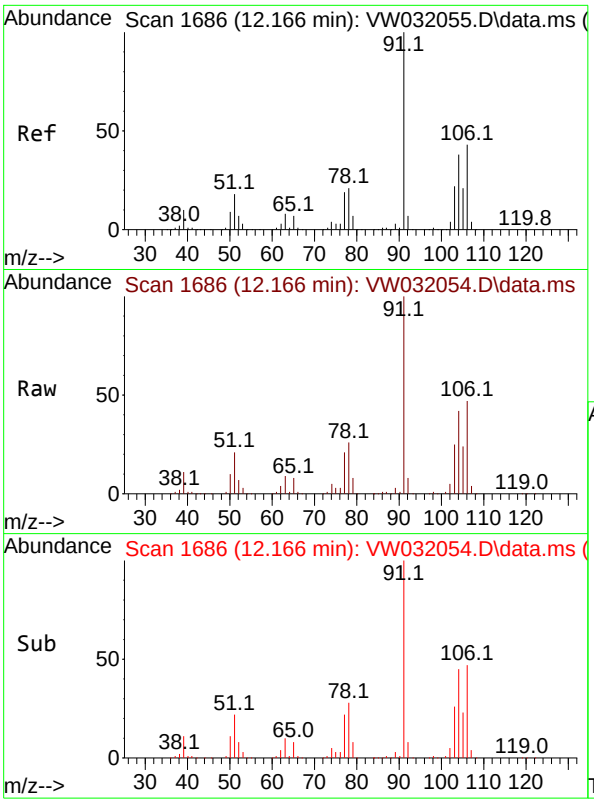




#68
m/p-Xylenes
Concen: 42.376 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:106 Resp: 233224

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 199.8 | 162.2 | 243.2 |

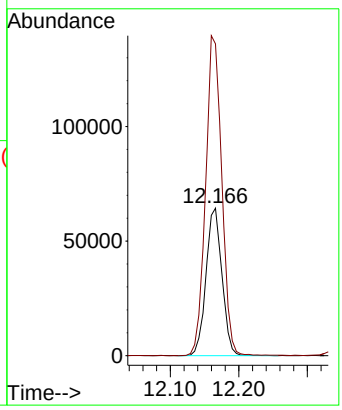





#69
o-Xylene
Concen: 20.482 ug/l
RT: 12.166 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:106 Resp: 10419

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 220.7 | 110.8 | 332.3 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

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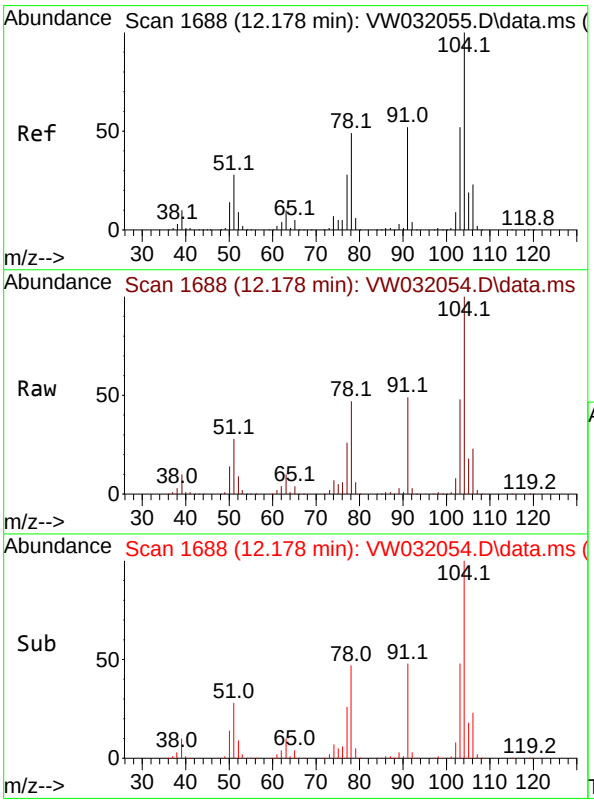
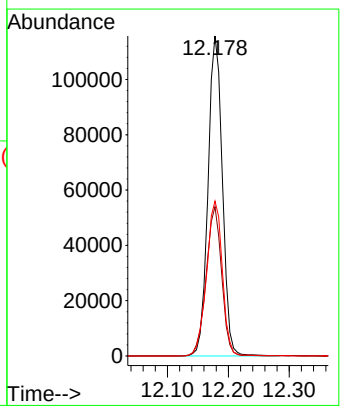
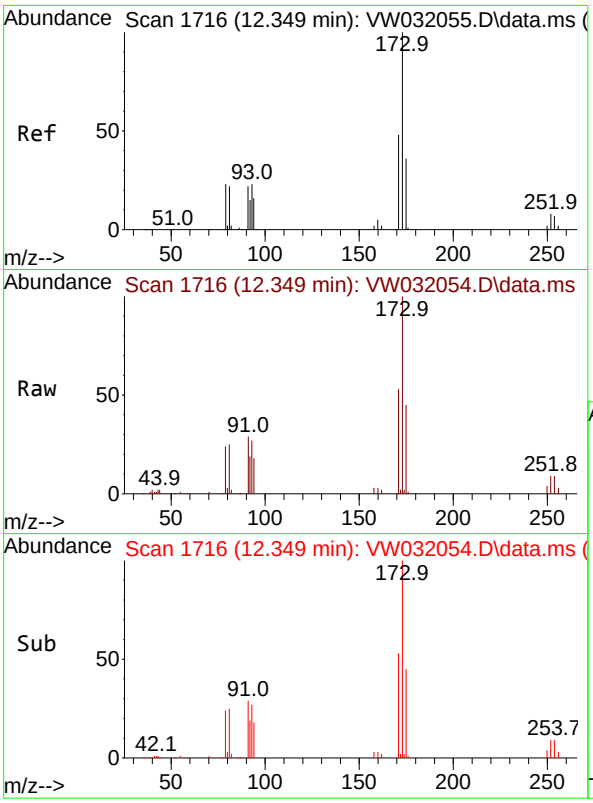



#70
Styrene
Concen: 20.991 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:104 Resp: 189664

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 50.1 | 41.2 | 61.8 |
| 103 | 53.2 | 43.8 | 65.8 |

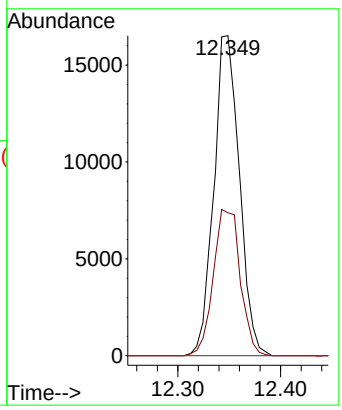





#71
Bromoform
Concen: 18.991 ug/l
RT: 12.349 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:173 Resp: 2854

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.1 | 22.9 | 68.7 |
| 254 | 0.0 | 0.0 | 0.0 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
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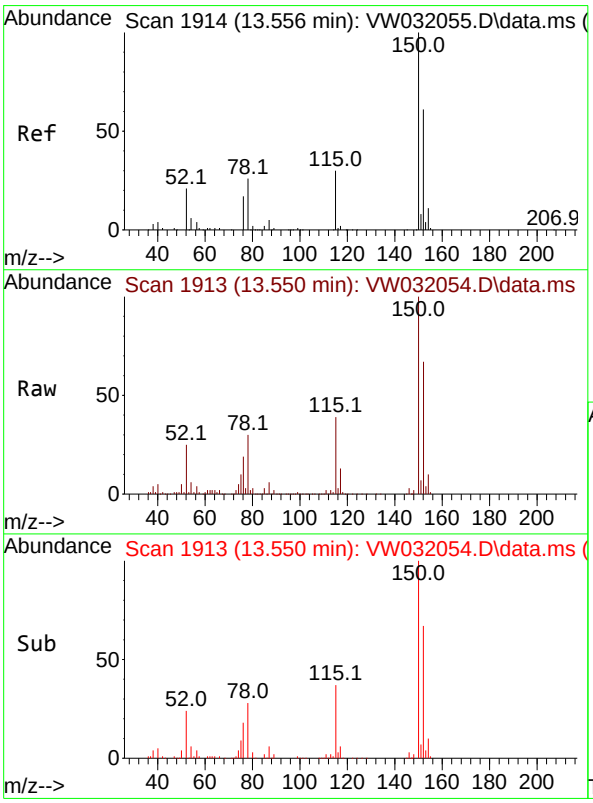
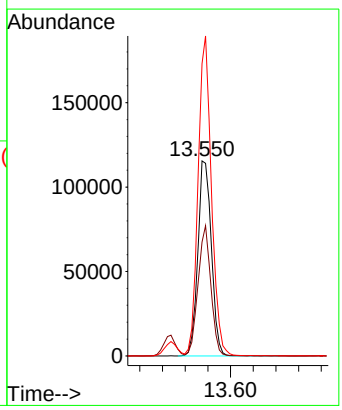
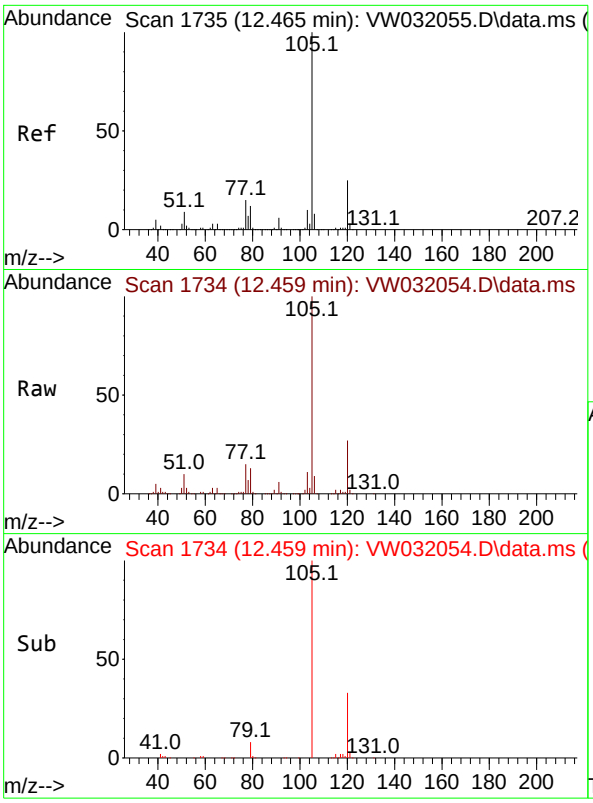



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.550 min Scan# 1913
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:152 Resp: 191343

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 63.0 | 32.6 | 97.8 |
| 150 | 161.1 | 0.0 | 359.4 |

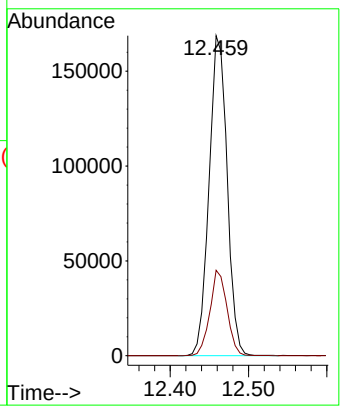





#73
Isopropylbenzene
Concen: 20.178 ug/l
RT: 12.459 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:105 Resp: 26982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.3 | 12.8 | 38.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

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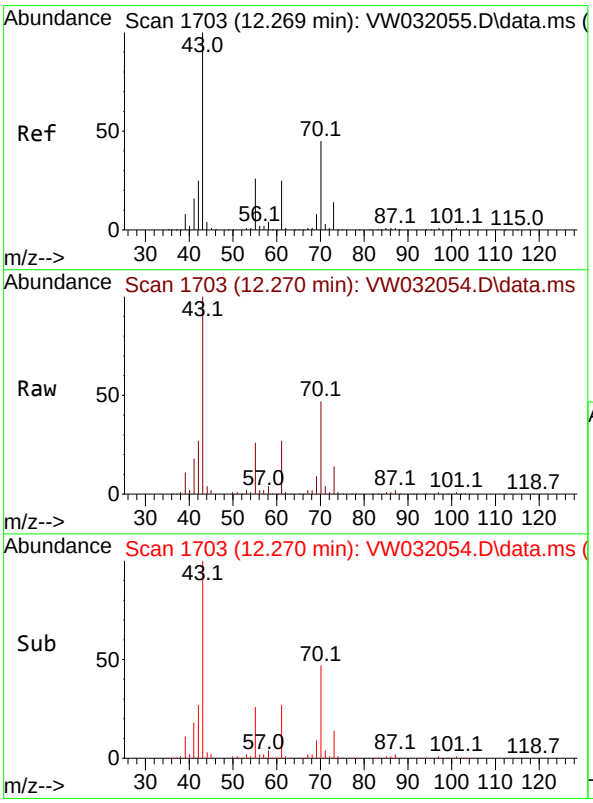
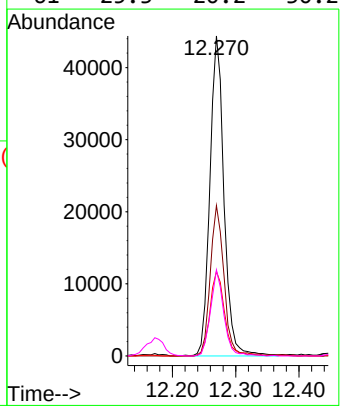
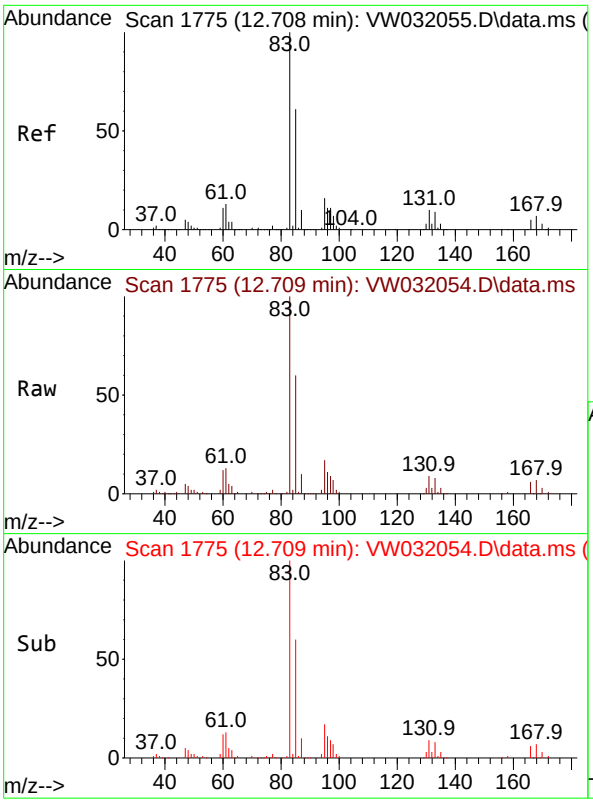



#74
N-amyl acetate
Concen: 18.005 ug/l
RT: 12.270 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 43 Resp: 69075

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 45.7 | 37.0 | 55.4 |
| 55 | 27.7 | 21.1 | 31.7 |
| 61 | 25.3 | 20.2 | 30.2 |






#75
1,1,2,2-Tetrachloroethane
Concen: 18.531 ug/l
RT: 12.709 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

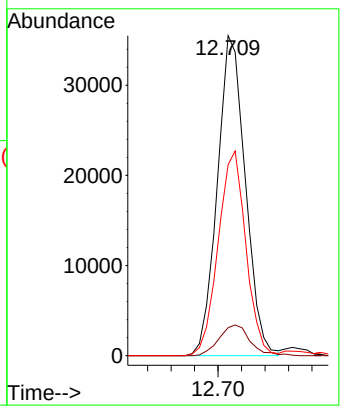
Tgt Ion: 83 Resp: 5883

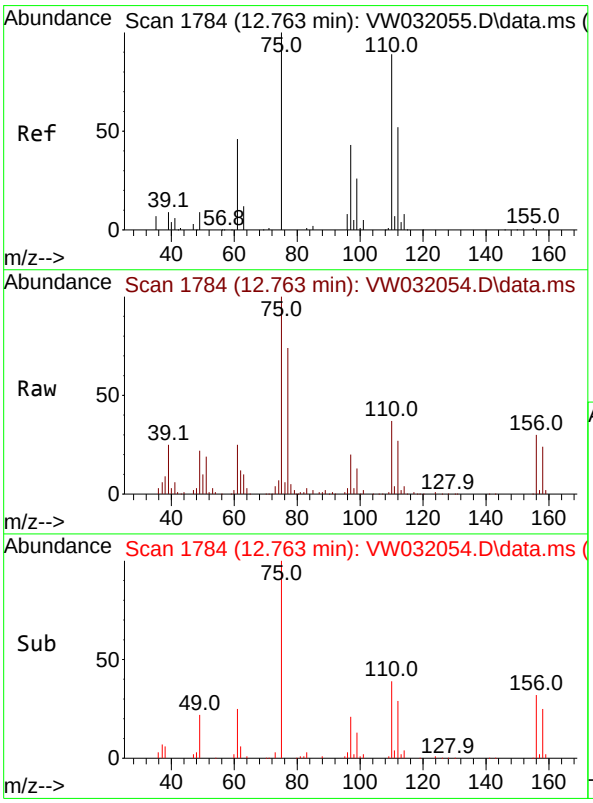
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.6 | 5.1 | 15.4 |
| 85 | 63.2 | 32.2 | 96.6 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

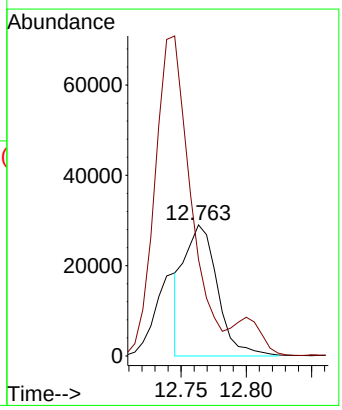


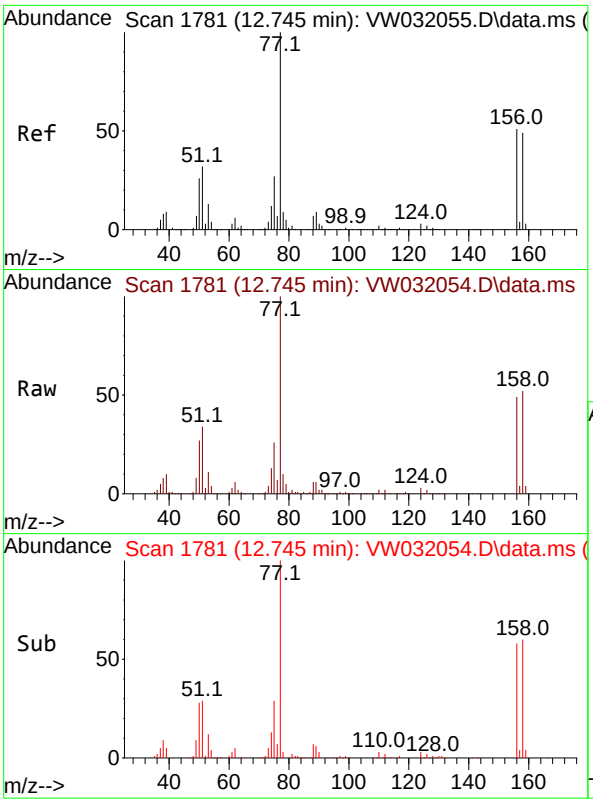




#76
1,2,3-Trichloropropane
Concen: 17.494 ug/l m
RT: 12.763 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 75 Resp: 51456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 262.8 | 123.5 | 370.5 |

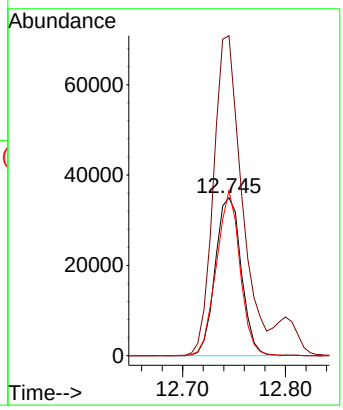





#77
Bromobenzene
Concen: 19.221 ug/l
RT: 12.745 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:156 Resp: 6138

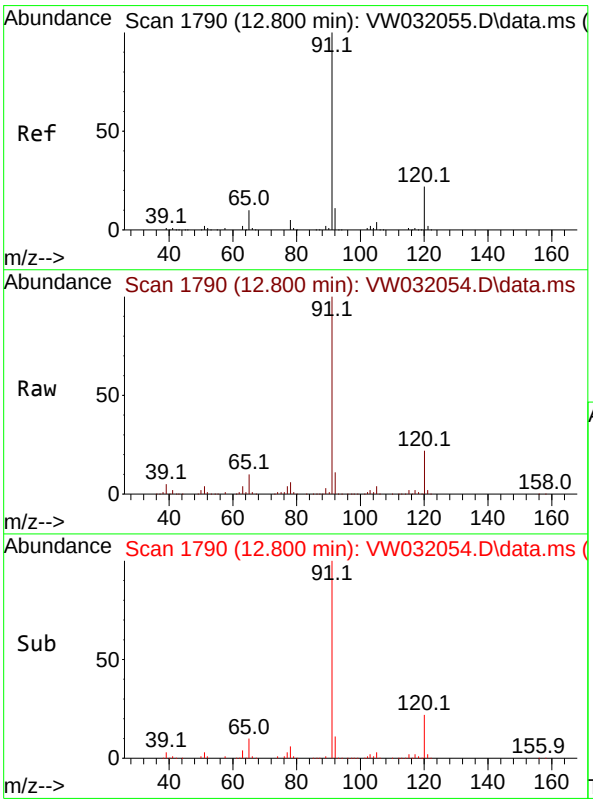
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 220.3 | 108.7 | 326.3 |
| 158 | 95.2 | 48.3 | 144.9 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

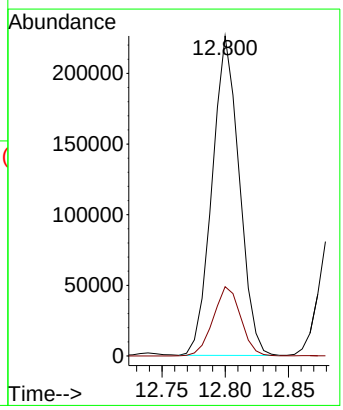
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

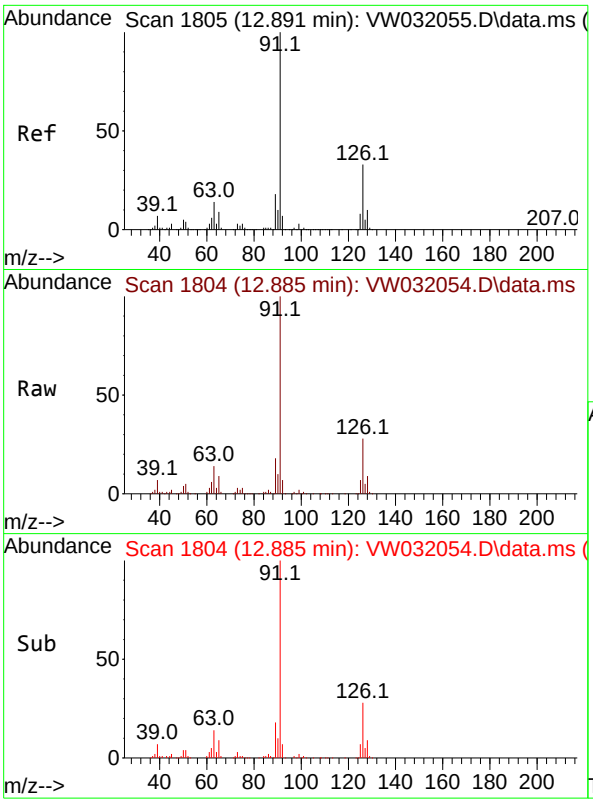



#78
n-propylbenzene
Concen: 20.476 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 91 Resp: 337098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.0 | 11.1 | 33.3 |

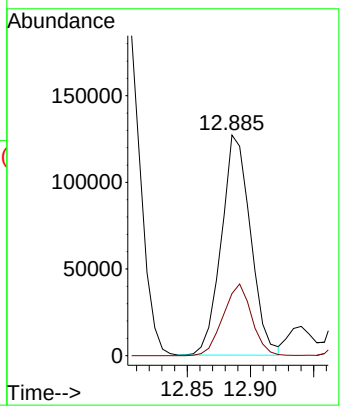





#79
2-Chlorotoluene
Concen: 20.069 ug/l
RT: 12.885 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 91 Resp: 20391

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.0 | 15.9 | 47.7 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

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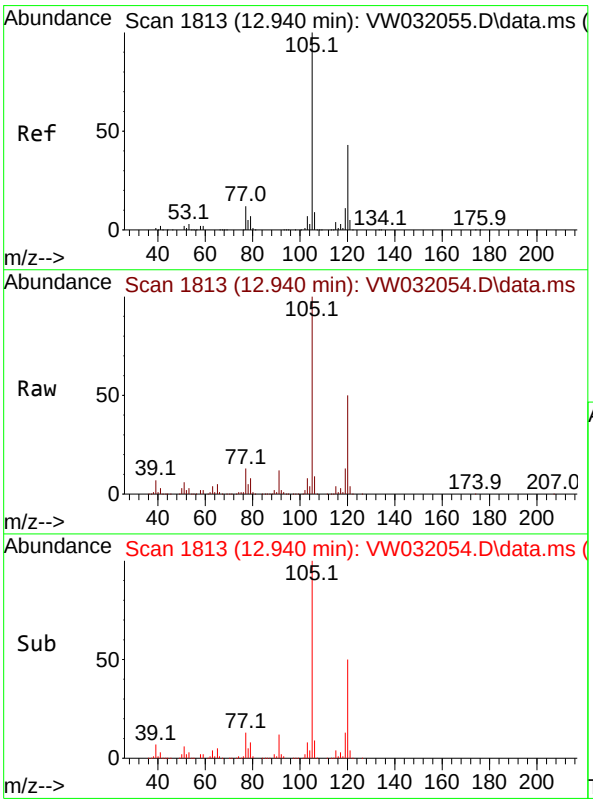
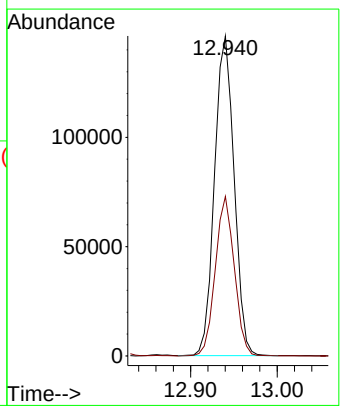
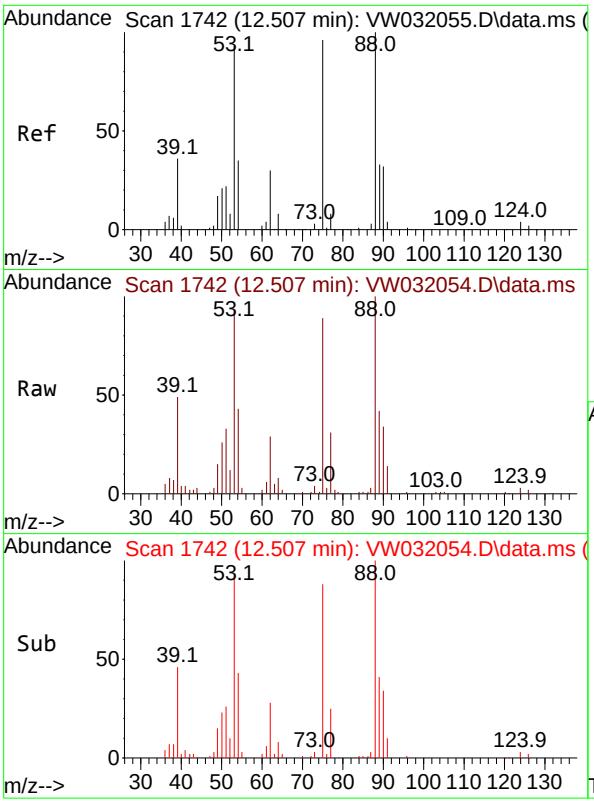



#80
1,3,5-Trimethylbenzene
Concen: 20.226 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:105 Resp: 229615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.5 | 23.4 | 70.0 |






#81
trans-1,4-Dichloro-2-butene
Concen: 17.458 ug/l
RT: 12.507 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 75 Resp: 1751

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 110.9 | 81.0 | 121.6 |
| 89 | 48.9 | 37.3 | 55.9 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

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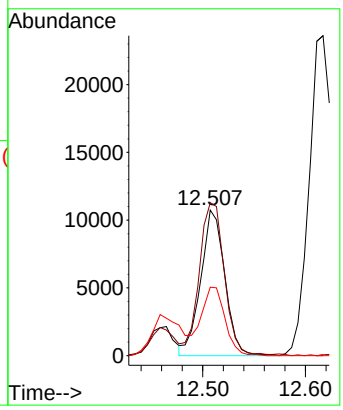
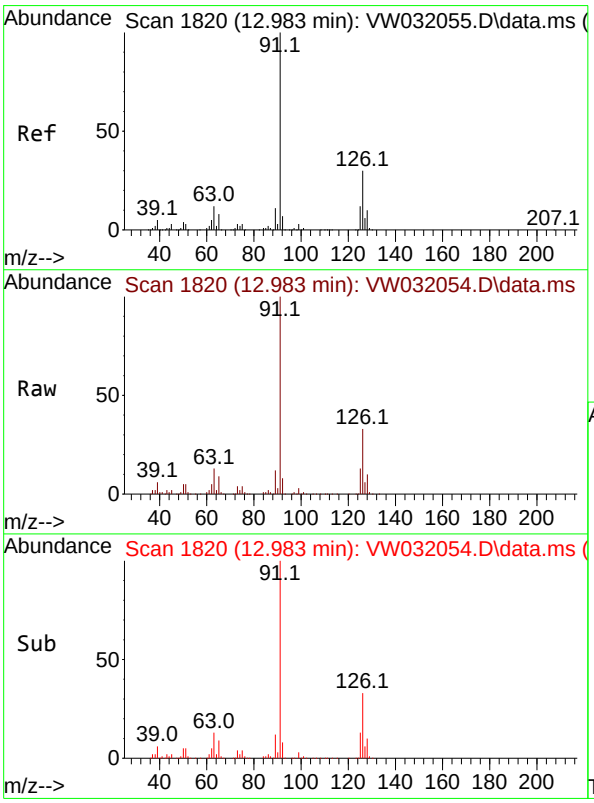
Supervised By :Semsettin Yesilyurt 08/12/2025

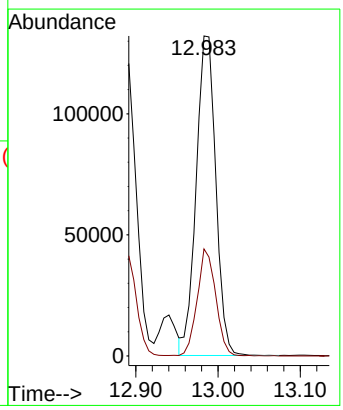


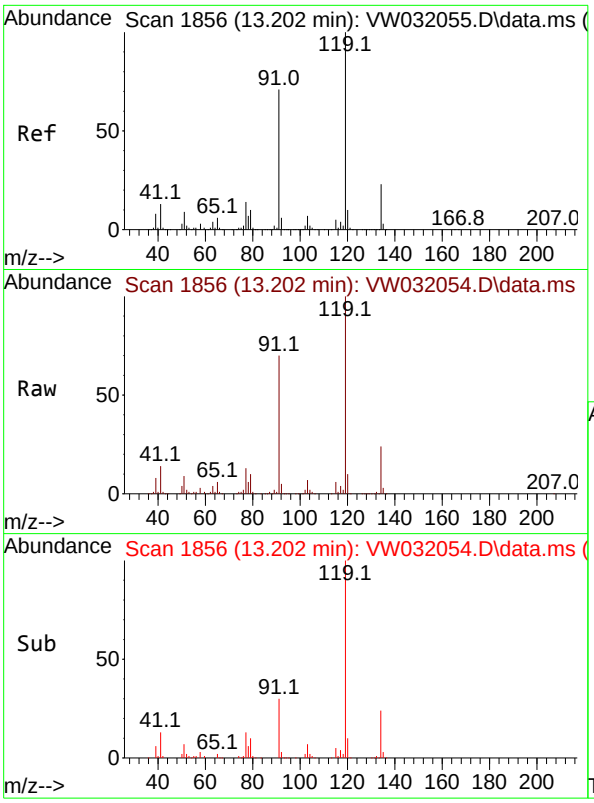




#82
4-Chlorotoluene
Concen: 20.253 ug/l
RT: 12.983 min Scan# 1820
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 91 Resp: 218637

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.9 | 15.5 | 46.5 |

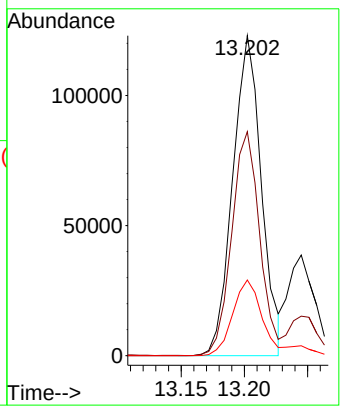





#83
tert-Butylbenzene
Concen: 20.608 ug/l
RT: 13.202 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:119 Resp: 19416

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 68.1 | 35.3 | 105.9 |
| 134 | 24.2 | 12.1 | 36.3 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

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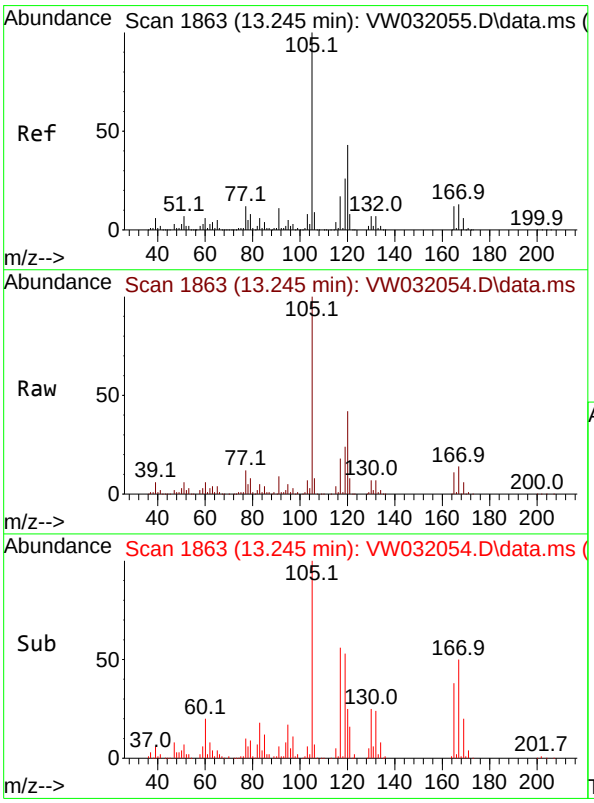
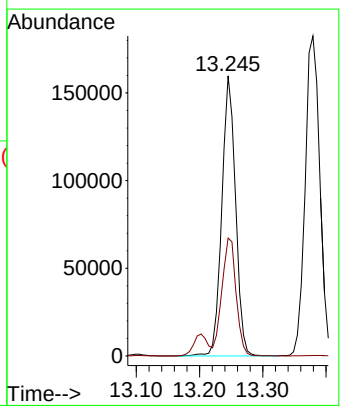
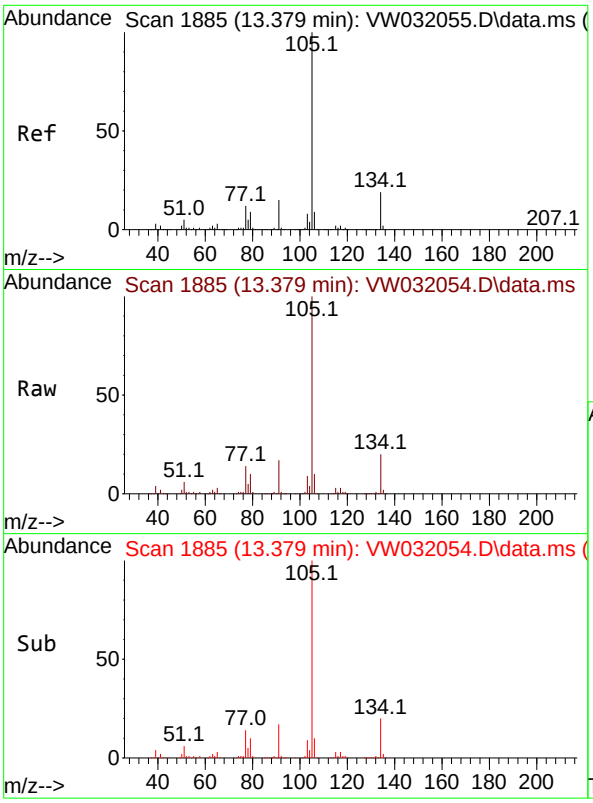



#84
1,2,4-Trimethylbenzene
Concen: 20.774 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:105 Resp: 240078

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.5 | 21.6 | 64.8 |

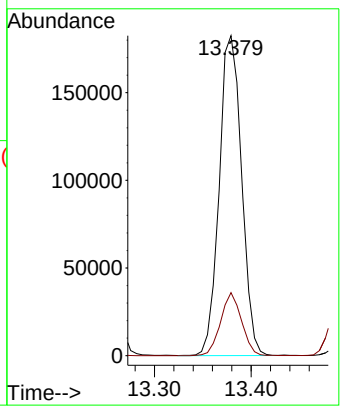





#85
sec-Butylbenzene
Concen: 20.547 ug/l
RT: 13.379 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:105 Resp: 29268

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 18.5 | 9.9 | 29.7 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
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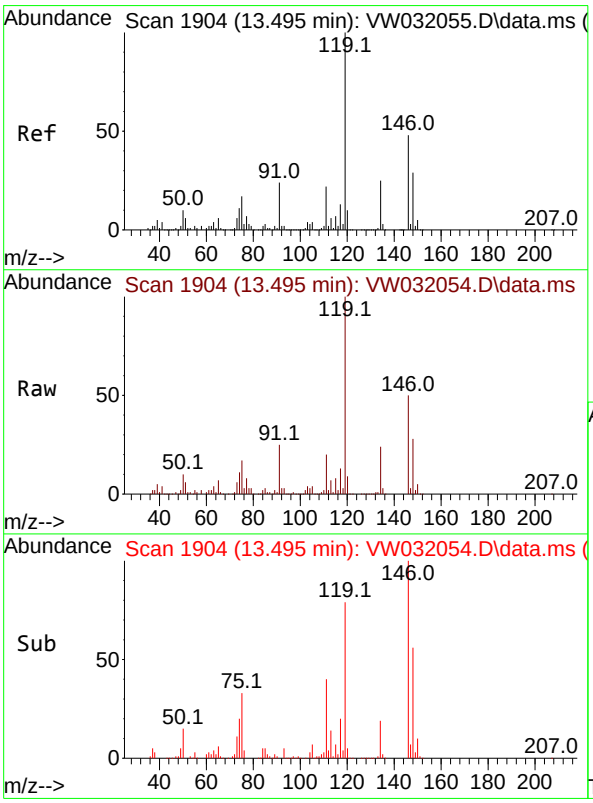
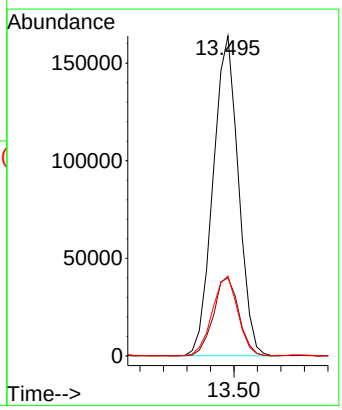
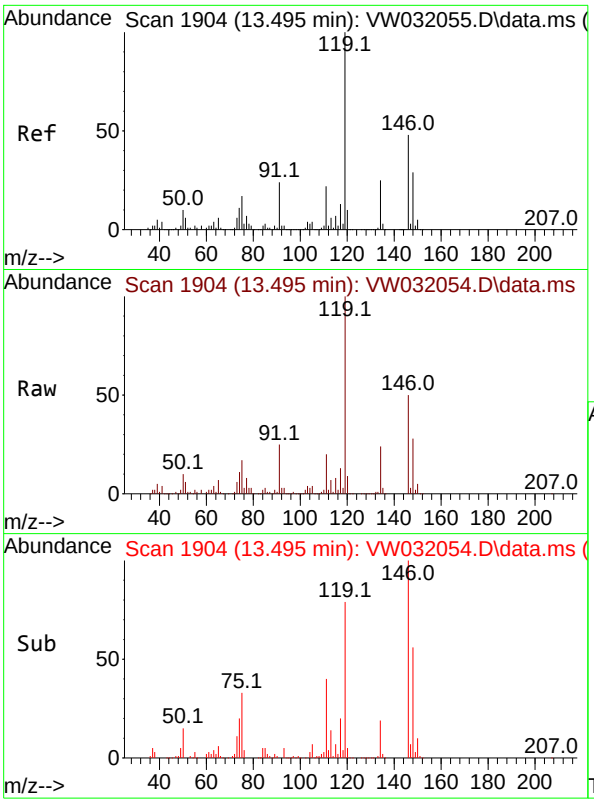



#86
p-Isopropyltoluene
Concen: 20.638 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:119 Resp: 245081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 24.5 | 12.4 | 37.0 |
| 91 | 25.1 | 12.1 | 36.3 |

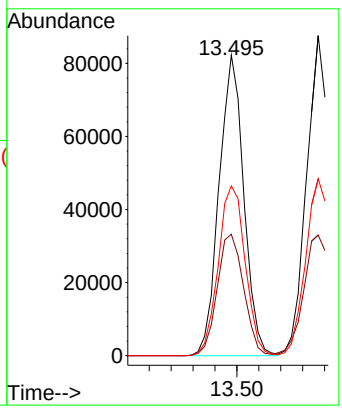





#87
1,3-Dichlorobenzene
Concen: 20.282 ug/l
RT: 13.495 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:146 Resp: 12889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.2 | 21.2 | 63.6 |
| 148 | 61.5 | 30.3 | 90.8 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

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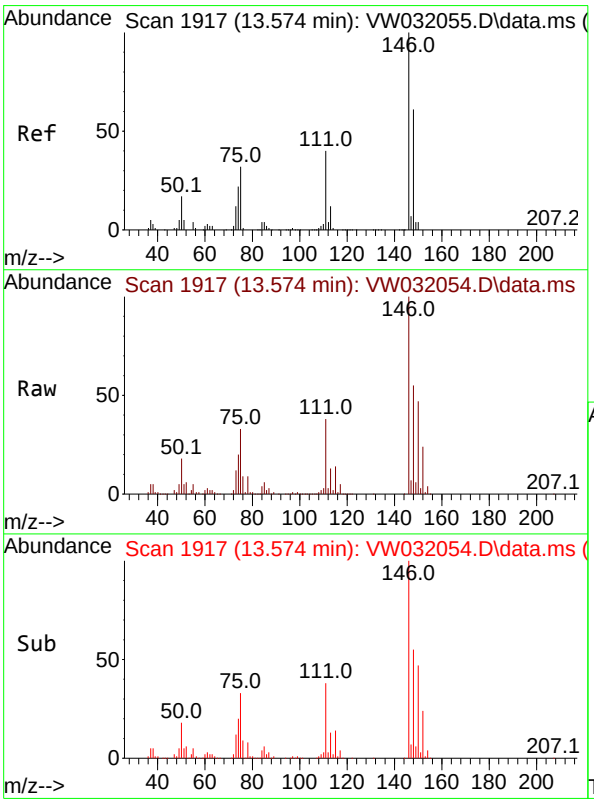
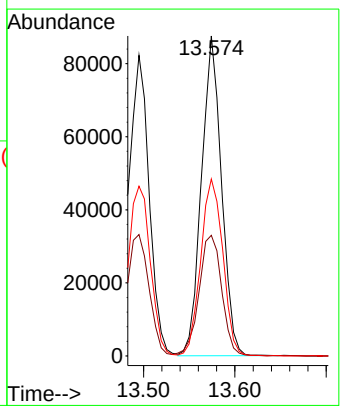
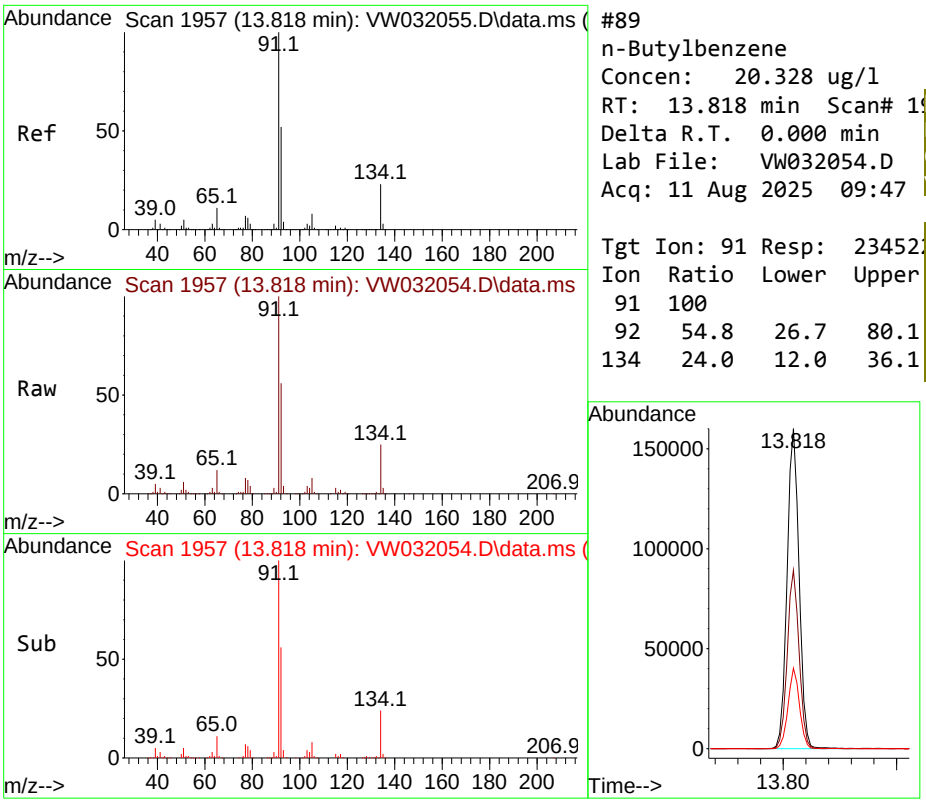



#88
1,4-Dichlorobenzene
Concen: 20.724 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:146 Resp: 133097

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.7 | 21.6 | 64.6 |
| 148 | 61.1 | 32.0 | 96.2 |






#89
n-Butylbenzene
Concen: 20.328 ug/l
RT: 13.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 91 Resp: 23452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.8 | 26.7 | 80.1 |
| 134 | 24.0 | 12.0 | 36.1 |




**Instrument :**
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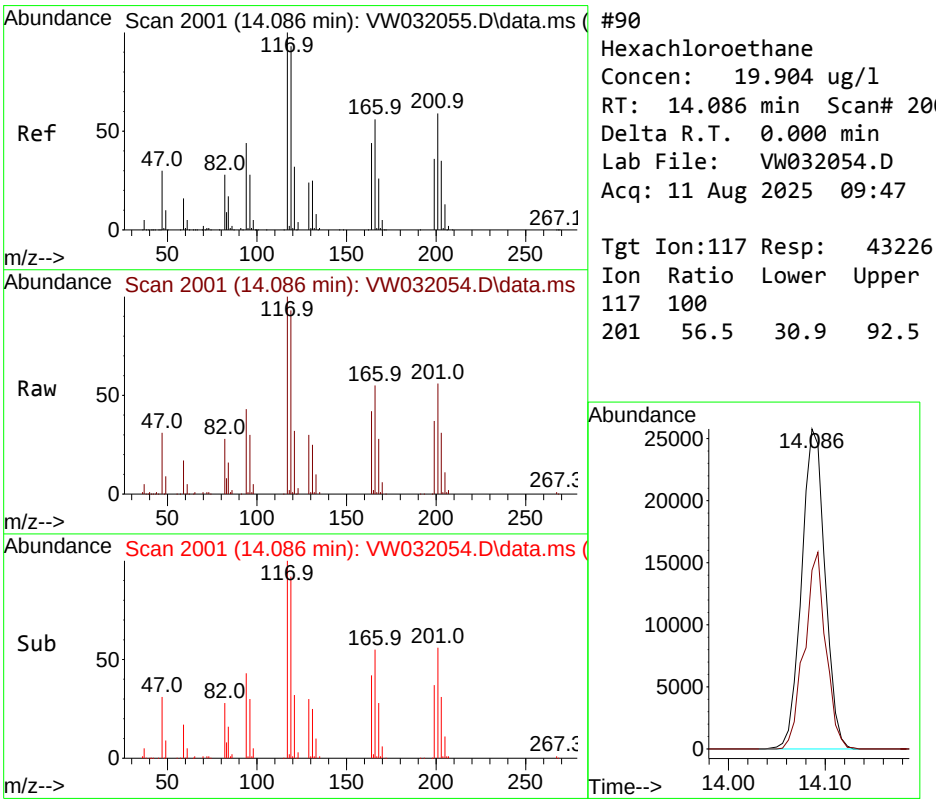
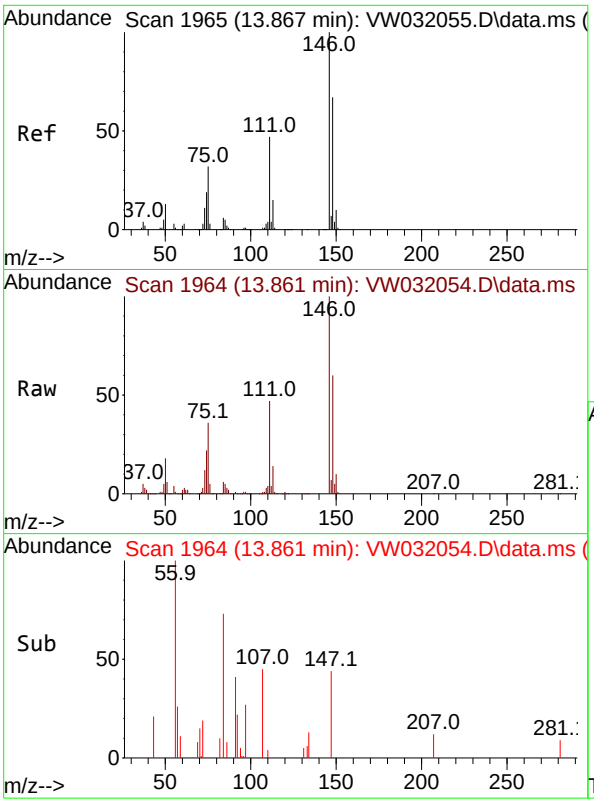



#90
Hexachloroethane
Concen: 19.904 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:117 Resp: 43226

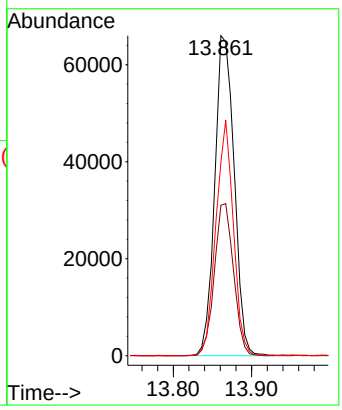
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 56.5 | 30.9 | 92.5 |




#91
1,2-Dichlorobenzene
Concen: 19.812 ug/l
RT: 13.861 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:146 Resp: 11405

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 46.8 | 23.1 | 69.3 |
| 148 | 66.0 | 32.9 | 98.6 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

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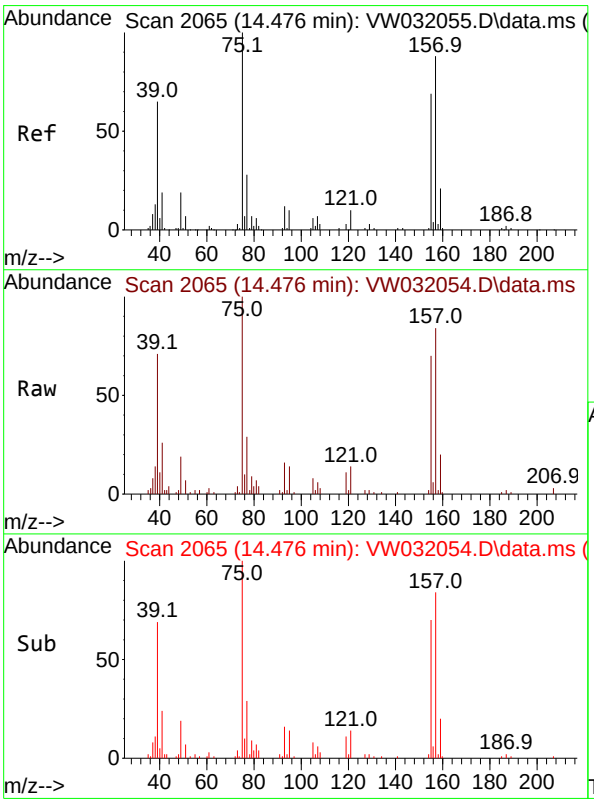
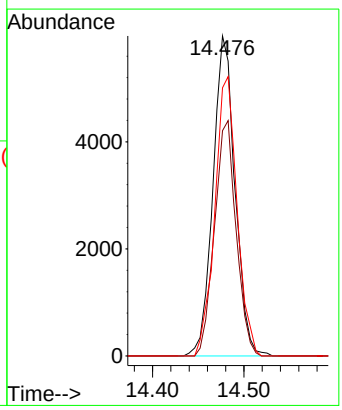
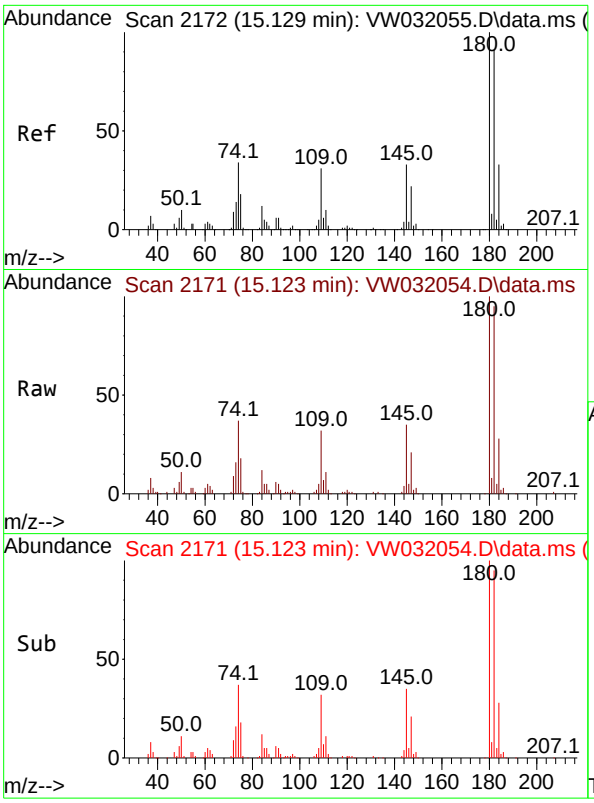



#92
1,2-Dibromo-3-Chloropropane
Concen: 17.736 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 75 Resp: 10011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 72.2 | 35.2 | 105.6 |
| 157 | 88.0 | 47.5 | 142.6 |

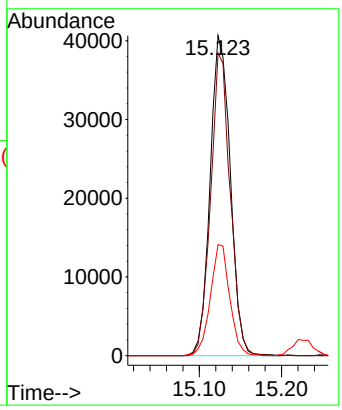





#93
1,2,4-Trichlorobenzene
Concen: 20.102 ug/l
RT: 15.123 min Scan# 21
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:180 Resp: 6922

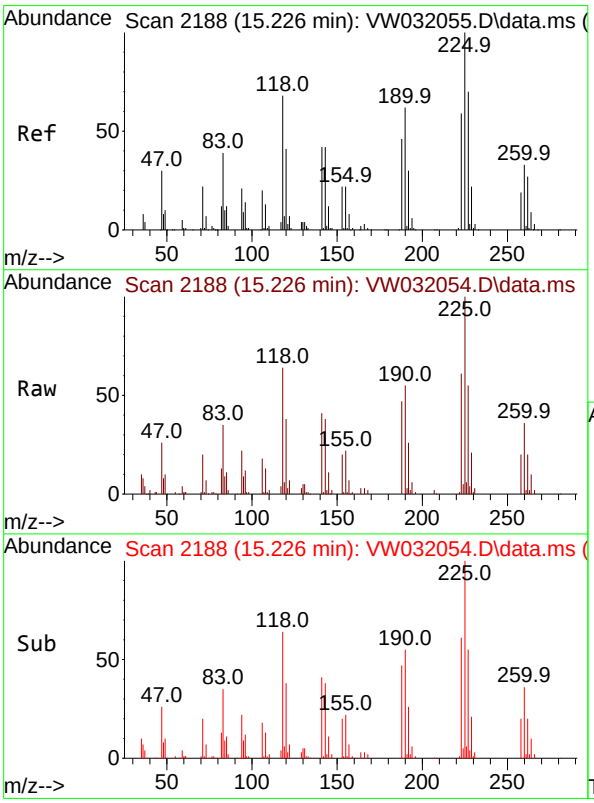
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 91.7 | 49.0 | 147.0 |
| 145 | 33.4 | 17.3 | 51.9 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

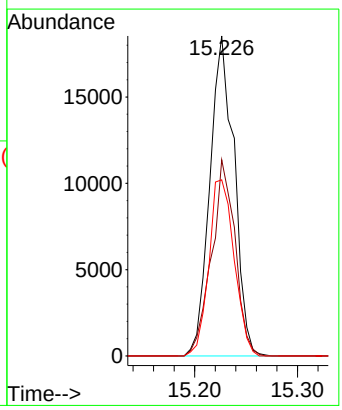
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

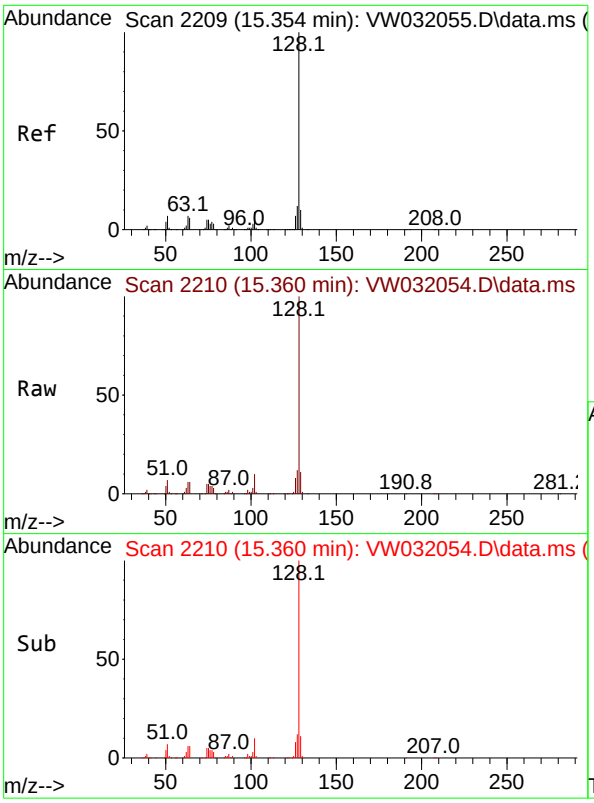



#94
Hexachlorobutadiene
Concen: 19.720 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:225 Resp: 30358

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 59.4 | 31.8 | 95.3 |
| 227 | 57.4 | 33.5 | 100.5 |

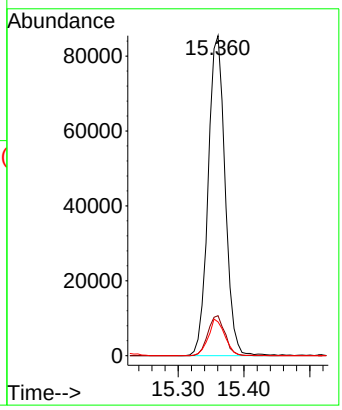





#95
Naphthalene
Concen: 18.147 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:128 Resp: 15313

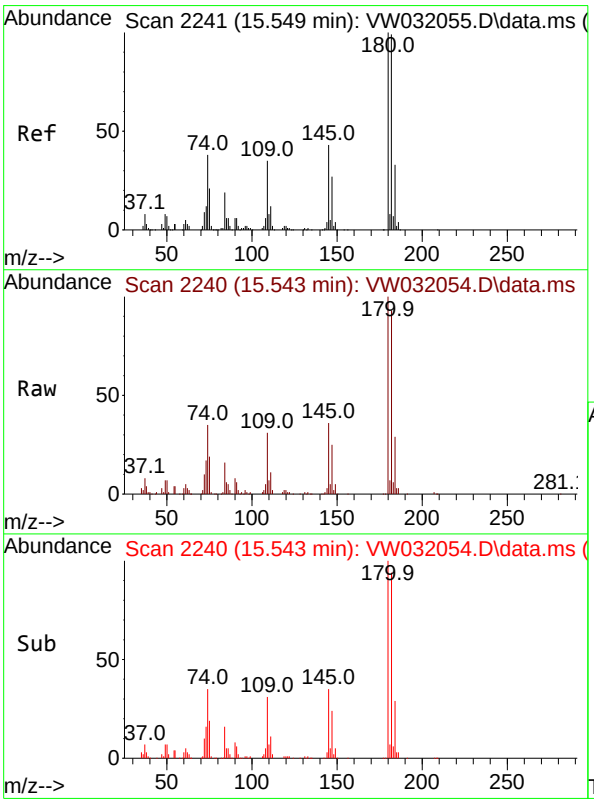
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.6 | 10.5 | 15.7 |
| 129 | 11.1 | 8.2 | 12.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

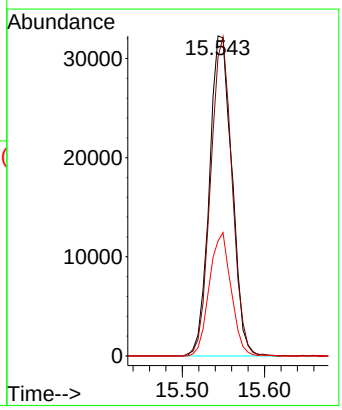
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025




#96
1,2,3-Trichlorobenzene
Concen: 19.635 ug/l
RT: 15.543 min Scan# 2240
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:180 Resp: 61526

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.0 | 46.0 | 138.0 |
| 145 | 37.1 | 19.2 | 57.6 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032055.D
Acq On : 11 Aug 2025 10:09
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Quant Time: Aug 12 03:38:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.959 | 168 | 223324 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.849 | 114 | 406973 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.629 | 117 | 378090 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.556 | 152 | 178995 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.319 | 65 | 159972 | 49.529 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 63 - 155 | | Recovery = 99.060% | | | |
| 35) Dibromofluoromethane | 7.898 | 113 | 132195 | 50.279 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 70 - 134 | | Recovery = 100.560% | | | |
| 50) Toluene-d8 | 10.325 | 98 | 506634 | 52.098 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 123 | | Recovery = 104.200% | | | |
| 62) 4-Bromofluorobenzene | 12.617 | 95 | 187331 | 52.274 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 17 - 146 | | Recovery = 104.540% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.040 | 85 | 75096 | 47.015 | ug/l | 100 |
| 3) Chloromethane | 2.259 | 50 | 97719 | 45.418 | ug/l | 100 |
| 4) Vinyl Chloride | 2.405 | 62 | 118378 | 45.486 | ug/l | 100 |
| 5) Bromomethane | 2.820 | 94 | 91749 | 46.991 | ug/l | 100 |
| 6) Chloroethane | 2.972 | 64 | 82045 | 47.641 | ug/l | 100 |
| 7) Trichlorofluoromethane | 3.302 | 101 | 103706 | 49.743 | ug/l | 100 |
| 8) Diethyl Ether | 3.722 | 74 | 84764 | 49.624 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 4.094 | 101 | 115526 | 46.968 | ug/l | 100 |
| 10) Methyl Iodide | 4.307 | 142 | 167079 | 47.909 | ug/l | 100 |
| 11) Tert butyl alcohol | 5.222 | 59 | 56322 | 269.294 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 4.082 | 96 | 128304 | 47.373 | ug/l | 100 |
| 13) Acrolein | 3.930 | 56 | 78858 | 236.637 | ug/l | 100 |
| 14) Allyl chloride | 4.704 | 41 | 192434 | 48.819 | ug/l | 100 |
| 15) Acrylonitrile | 5.405 | 53 | 213941 | 262.963 | ug/l | 100 |
| 16) Acetone | 4.161 | 43 | 182559 | 244.127 | ug/l | 100 |
| 17) Carbon Disulfide | 4.423 | 76 | 347752 | 47.836 | ug/l | 100 |
| 18) Methyl Acetate | 4.710 | 43 | 123902 | 52.361 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.466 | 73 | 246045 | 51.560 | ug/l | 100 |
| 20) Methylene Chloride | 4.960 | 84 | 152186 | 44.016 | ug/l | 100 |
| 21) trans-1,2-Dichloroethene | 5.460 | 96 | 139994 | 48.707 | ug/l | 100 |
| 22) Diisopropyl ether | 6.344 | 45 | 421731 | 50.751 | ug/l | 100 |
| 23) Vinyl Acetate | 6.283 | 43 | 1450553 | 265.873 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 6.240 | 63 | 258279 | 48.646 | ug/l | 100 |
| 25) 2-Butanone | 7.191 | 43 | 284711 | 267.883 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 7.191 | 77 | 129390 | 48.578 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 7.191 | 96 | 167240 | 49.779 | ug/l | 100 |
| 28) Bromochloromethane | 7.533 | 49 | 121266 | 50.191 | ug/l | 100 |
| 29) Tetrahydrofuran | 7.551 | 42 | 190719 | 272.100 | ug/l | 100 |
| 30) Chloroform | 7.691 | 83 | 275905 | 49.018 | ug/l | 100 |
| 31) Cyclohexane | 7.971 | 56 | 214597 | 46.622 | ug/l | 100 |
| 32) 1,1,1-Trichloroethane | 7.886 | 97 | 194676 | 47.617 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 8.099 | 75 | 190046 | 51.274 | ug/l | 100 |
| 37) Ethyl Acetate | 7.276 | 43 | 119689 | 54.829 | ug/l | 100 |
| 38) Carbon Tetrachloride | 8.087 | 117 | 182422 | 51.000 | ug/l | 100 |
| 39) Methylcyclohexane | 9.343 | 83 | 235341 | 52.093 | ug/l | 100 |
| 40) Benzene | 8.337 | 78 | 597760 | 51.883 | ug/l | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032055.D
Acq On : 11 Aug 2025 10:09
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 12 03:38:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.496 | 41 | 68136 | 55.039 | ug/l | | 100 |
| 42) 1,2-Dichloroethane | 8.410 | 62 | 189755 | 51.471 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.435 | 43 | 219064 | 54.544 | ug/l | | 100 |
| 44) Trichloroethene | 9.099 | 130 | 137910 | 50.264 | ug/l | | 100 |
| 45) 1,2-Dichloropropane | 9.374 | 63 | 143446 | 51.537 | ug/l | | 100 |
| 46) Dibromomethane | 9.465 | 93 | 93001 | 51.770 | ug/l | | 100 |
| 47) Bromodichloromethane | 9.654 | 83 | 216521 | 52.307 | ug/l | | 100 |
| 48) Methyl methacrylate | 9.441 | 41 | 108287 | 55.849 | ug/l | | 100 |
| 49) 1,4-Dioxane | 9.465 | 88 | 26579 | 1144.321 | ug/l | | 100 |
| 51) 4-Methyl-2-Pentanone | 10.215 | 43 | 635174 | 280.194 | ug/l | | 100 |
| 52) Toluene | 10.392 | 92 | 379230 | 52.258 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.611 | 75 | 209555 | 54.035 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 10.075 | 75 | 236454 | 53.744 | ug/l | | 100 |
| 55) 1,1,2-Trichloroethane | 10.788 | 97 | 124341 | 52.088 | ug/l | | 100 |
| 56) Ethyl methacrylate | 10.648 | 69 | 178974 | 56.027 | ug/l | | 100 |
| 57) 1,3-Dichloropropane | 10.934 | 76 | 216719 | 52.084 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.928 | 63 | 490522 | 277.613 | ug/l | | 100 |
| 59) 2-Hexanone | 10.971 | 43 | 447423 | 284.986 | ug/l | | 100 |
| 60) Dibromochloromethane | 11.129 | 129 | 142234 | 52.161 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 11.233 | 107 | 121625 | 52.430 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.867 | 164 | 105400 | 48.263 | ug/l | | 100 |
| 65) Chlorobenzene | 11.654 | 112 | 403926 | 49.082 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.727 | 131 | 128215 | 49.935 | ug/l | | 100 |
| 67) Ethyl Benzene | 11.727 | 91 | 706877 | 50.709 | ug/l | | 100 |
| 68) m/p-Xylenes | 11.837 | 106 | 552442 | 102.704 | ug/l | | 100 |
| 69) o-Xylene | 12.166 | 106 | 257591 | 51.812 | ug/l | | 100 |
| 70) Styrene | 12.178 | 104 | 457949 | 51.858 | ug/l | | 100 |
| 71) Bromoform | 12.349 | 173 | 77959 | 53.078 | ug/l | # | 100 |
| 73) Isopropylbenzene | 12.465 | 105 | 654522 | 52.323 | ug/l | | 100 |
| 74) N-amyl acetate | 12.269 | 43 | 199256 | 55.520 | ug/l | | 100 |
| 75) 1,1,2,2-Tetrachloroethane | 12.708 | 83 | 156076 | 52.549 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.763 | 75 | 137632m | 50.019 | ug/l | | |
| 77) Bromobenzene | 12.745 | 156 | 156335 | 52.326 | ug/l | | 100 |
| 78) n-propylbenzene | 12.800 | 91 | 805515 | 52.304 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.891 | 91 | 490665 | 51.622 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.940 | 105 | 555481 | 52.305 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.507 | 75 | 51811 | 55.213 | ug/l | | 100 |
| 82) 4-Chlorotoluene | 12.983 | 91 | 519957 | 51.488 | ug/l | | 100 |
| 83) tert-Butylbenzene | 13.202 | 119 | 462373 | 52.460 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.245 | 105 | 572429 | 52.950 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.379 | 105 | 690647 | 51.829 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.495 | 119 | 589769 | 53.089 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.495 | 146 | 313624 | 52.754 | ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 13.574 | 146 | 299453 | 49.844 | ug/l | | 100 |
| 89) n-Butylbenzene | 13.818 | 91 | 569364 | 52.756 | ug/l | | 100 |
| 90) Hexachloroethane | 14.086 | 117 | 101464 | 49.942 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 13.867 | 146 | 273581 | 50.801 | ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.476 | 75 | 28437 | 53.857 | ug/l | | 100 |
| 93) 1,2,4-Trichlorobenzene | 15.129 | 180 | 164726 | 51.132 | ug/l | | 100 |
| 94) Hexachlorobutadiene | 15.226 | 225 | 68983 | 47.902 | ug/l | | 100 |
| 95) Naphthalene | 15.354 | 128 | 434944 | 55.099 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.549 | 180 | 149556 | 51.022 | ug/l | | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032055.D
Acq On : 11 Aug 2025 10:09
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Quant Time: Aug 12 03:38:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

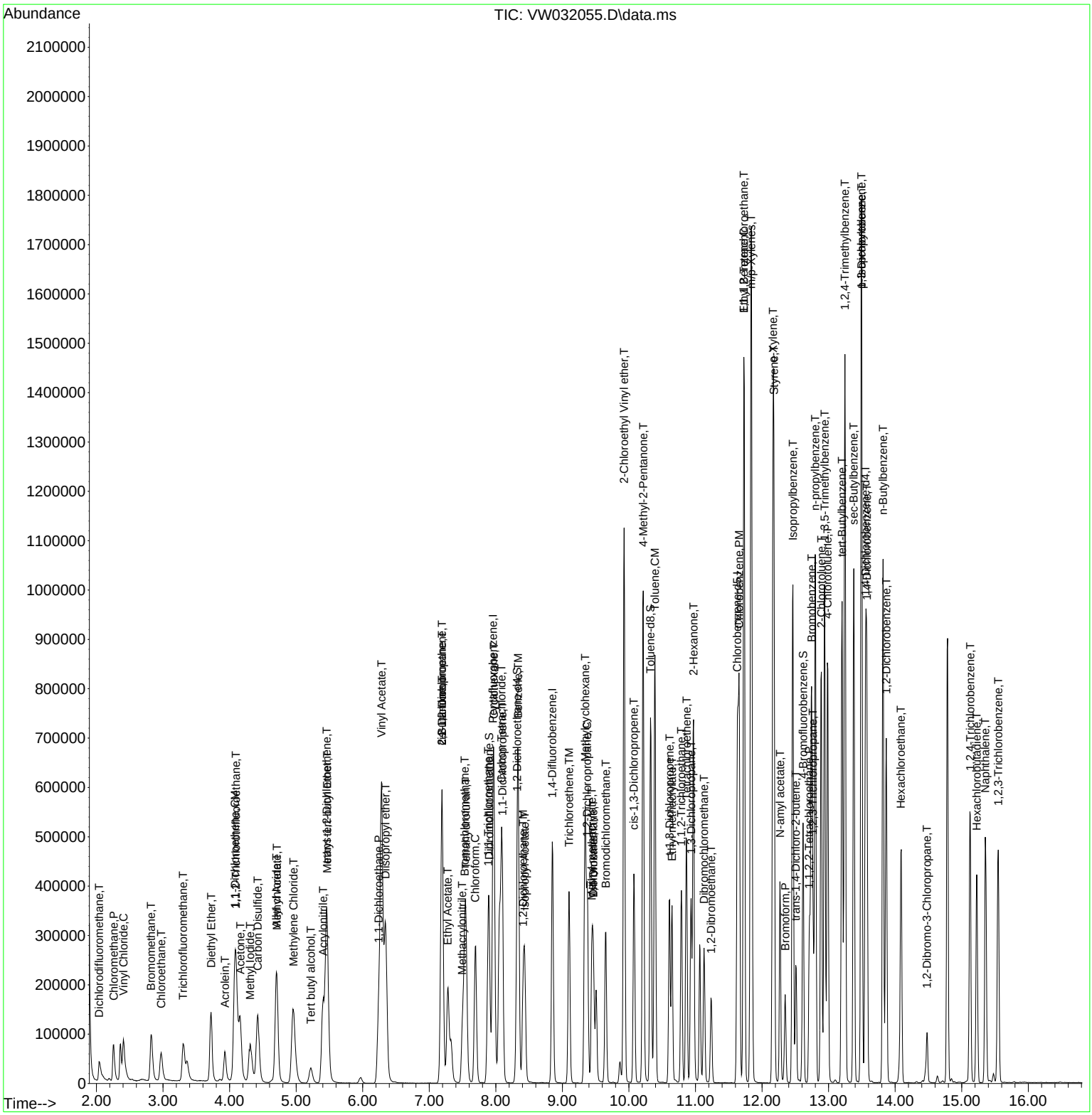
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032055.D
Acq On : 11 Aug 2025 10:09
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

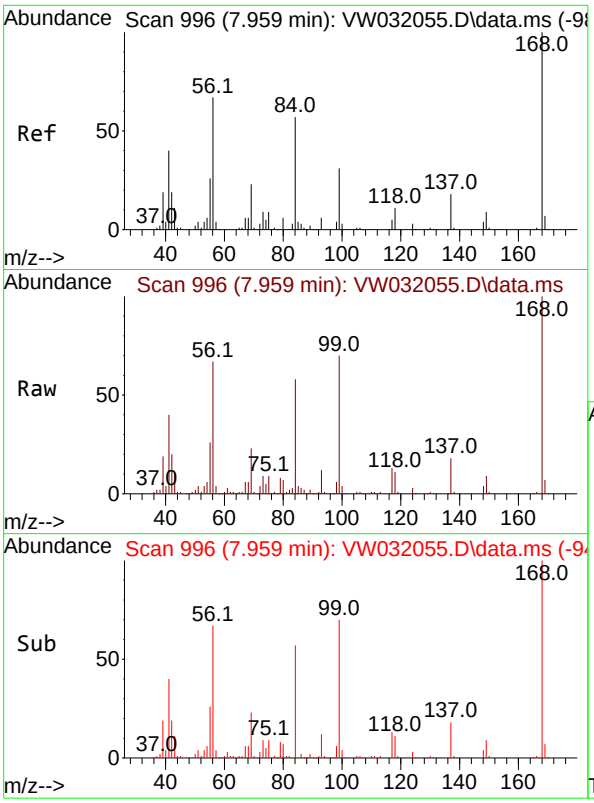
Quant Time: Aug 12 03:38:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

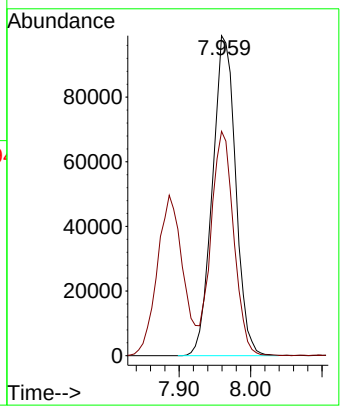





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:168 Resp: 22332

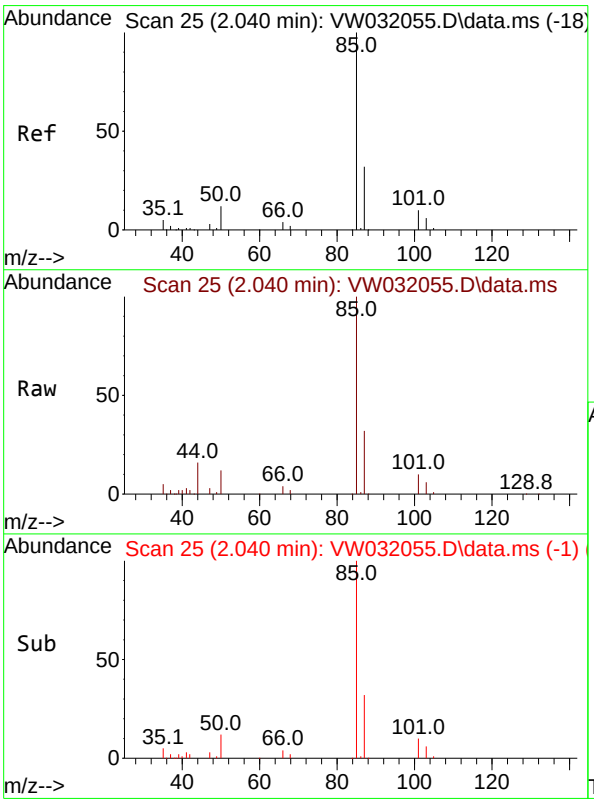
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 70.0 | 56.0 | 84.0 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

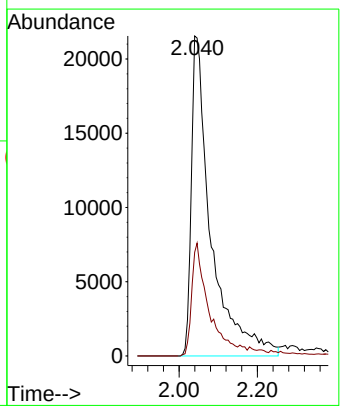
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

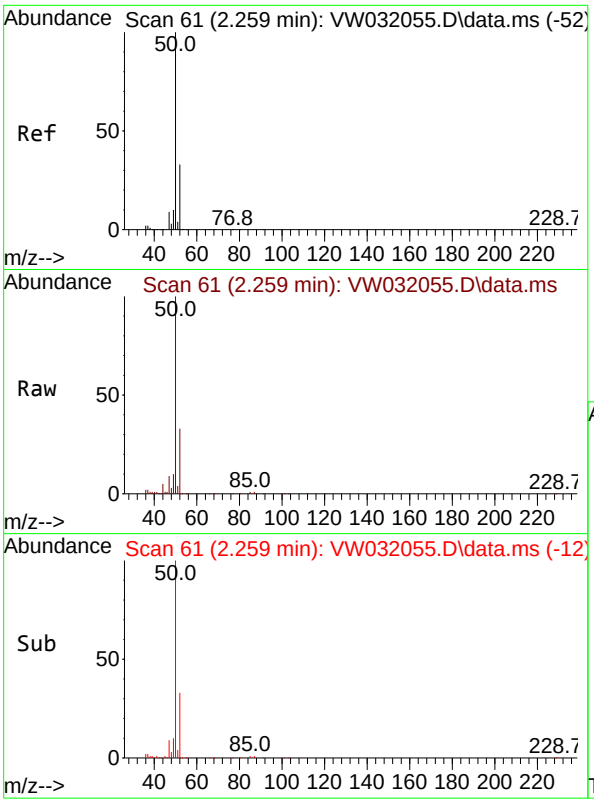



#2
Dichlorodifluoromethane
Concen: 47.015 ug/l
RT: 2.040 min Scan# 25
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 85 Resp: 75096

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.4 | 16.2 | 48.6 |

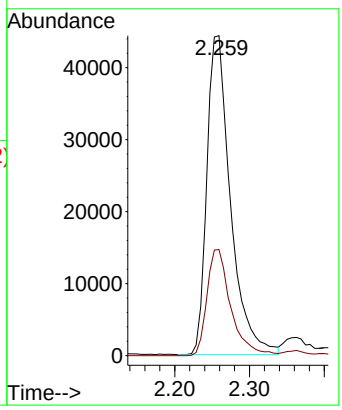





#3
Chloromethane
Concen: 45.418 ug/l
RT: 2.259 min Scan# 6
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 50 Resp: 9771

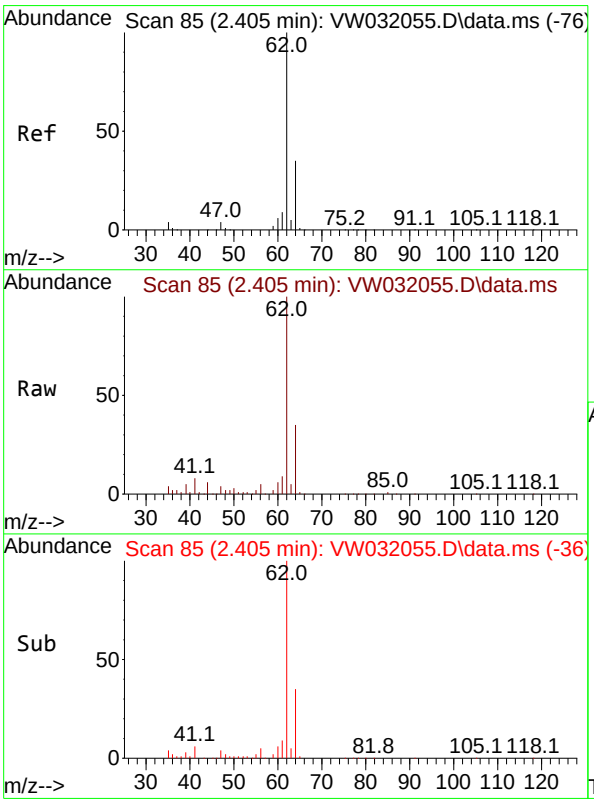
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.2 | 26.6 | 39.8 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

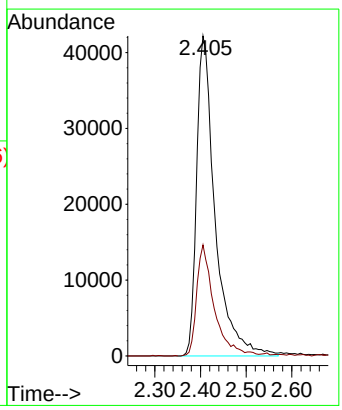
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

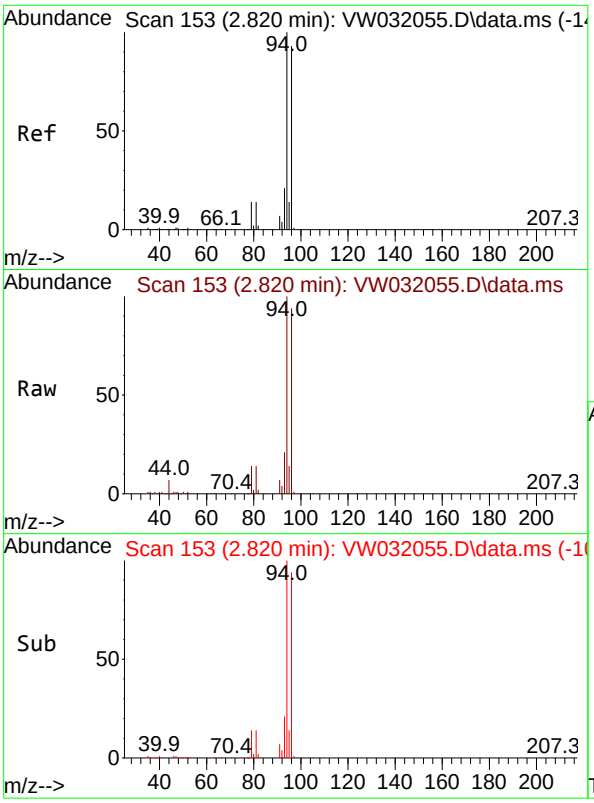



#4
Vinyl Chloride
Concen: 45.486 ug/l
RT: 2.405 min Scan# 85
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 62 Resp: 118378

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 34.7 | 27.8 | 41.6 |

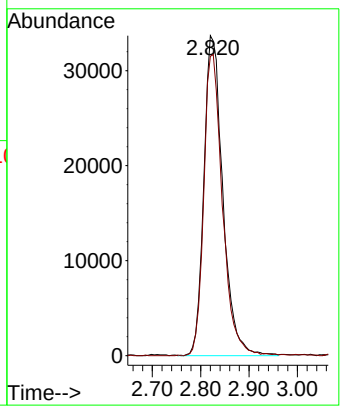





#5
Bromomethane
Concen: 46.991 ug/l
RT: 2.820 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 94 Resp: 9174

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 93.4 | 74.7 | 112.1 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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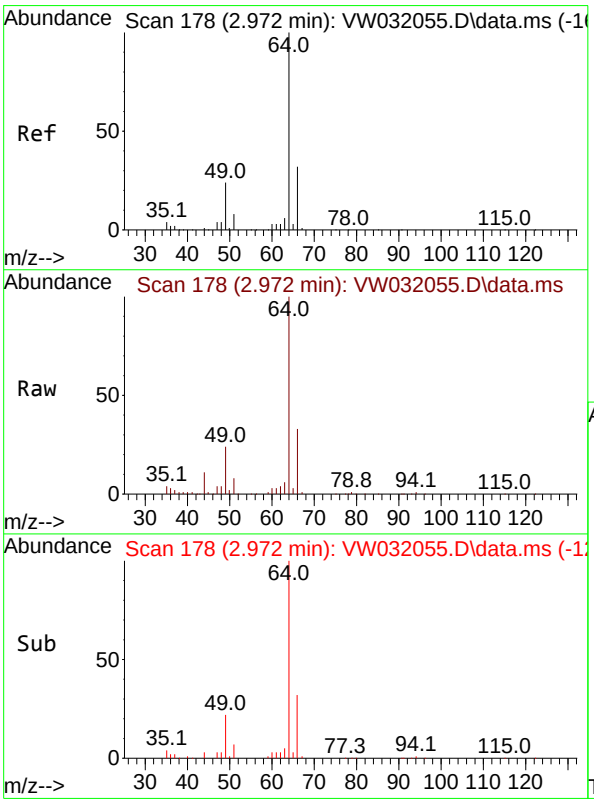
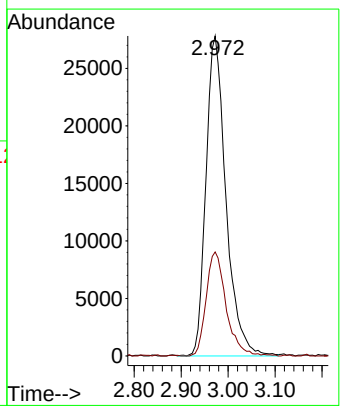
Supervised By :Semsettin Yesilyurt 08/12/2025

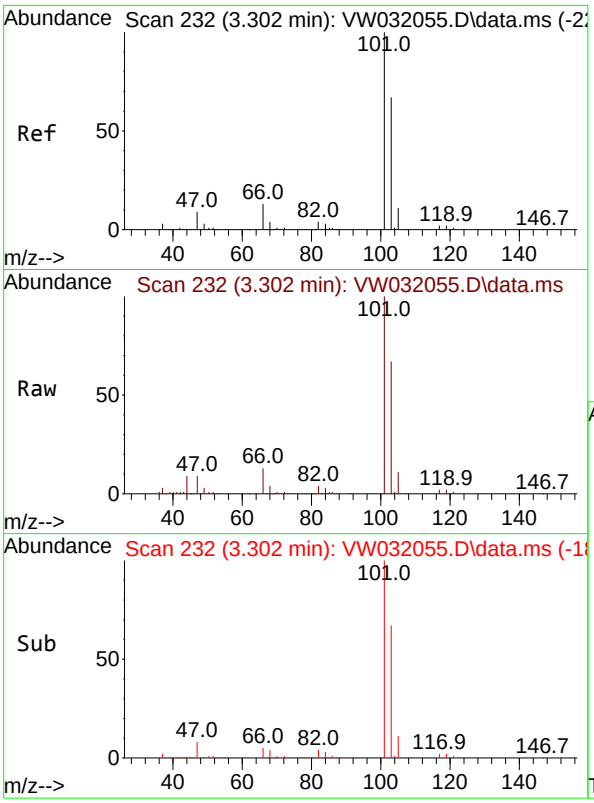



#6
Chloroethane
Concen: 47.641 ug/l
RT: 2.972 min Scan# 178
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 64 Resp: 82045

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.5 | 26.0 | 39.0 |

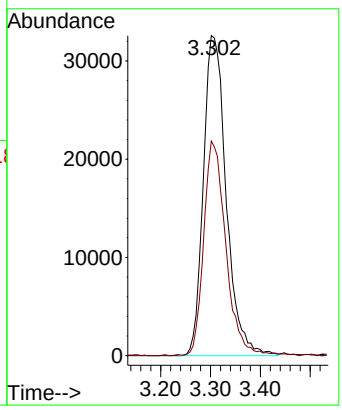





#7
Trichlorofluoromethane
Concen: 49.743 ug/l
RT: 3.302 min Scan# 2
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:101 Resp: 10370

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 66.7 | 53.4 | 80.0 |

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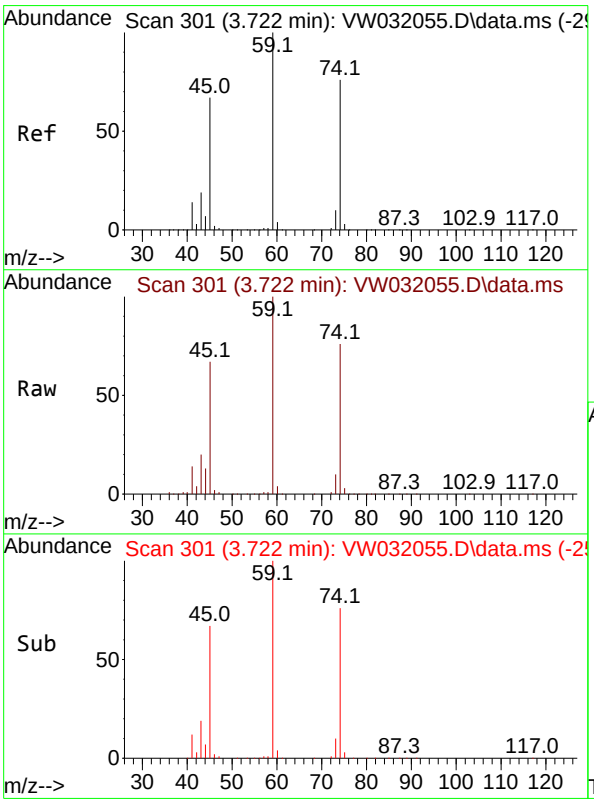
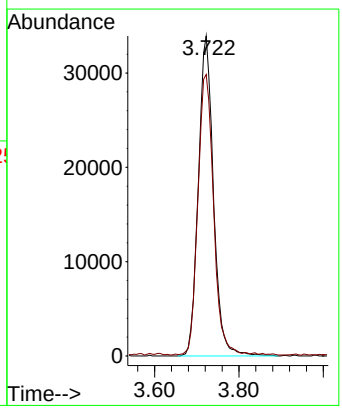
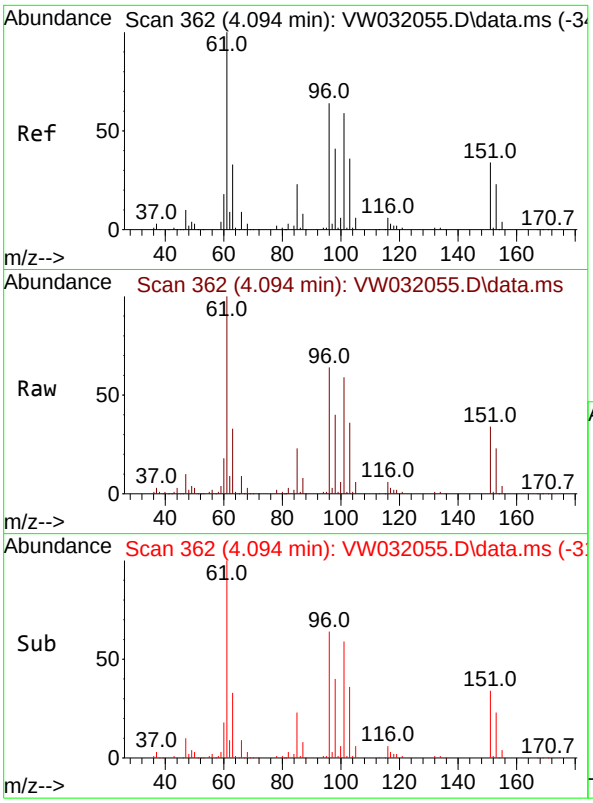



#8
Diethyl Ether
Concen: 49.624 ug/l
RT: 3.722 min Scan# 301
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 74 Resp: 84764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 90.8 | 45.4 | 136.2 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 46.968 ug/l
RT: 4.094 min Scan# 3
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:101 Resp: 11552

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 43.6 | 34.9 | 52.3 |
| 151 | 70.3 | 56.2 | 84.4 |

**Instrument :**
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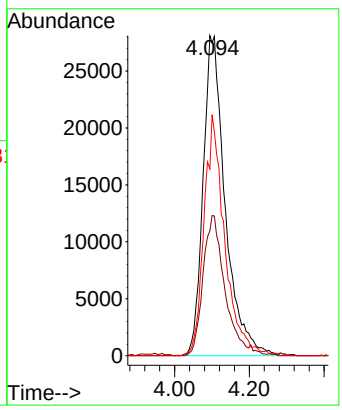
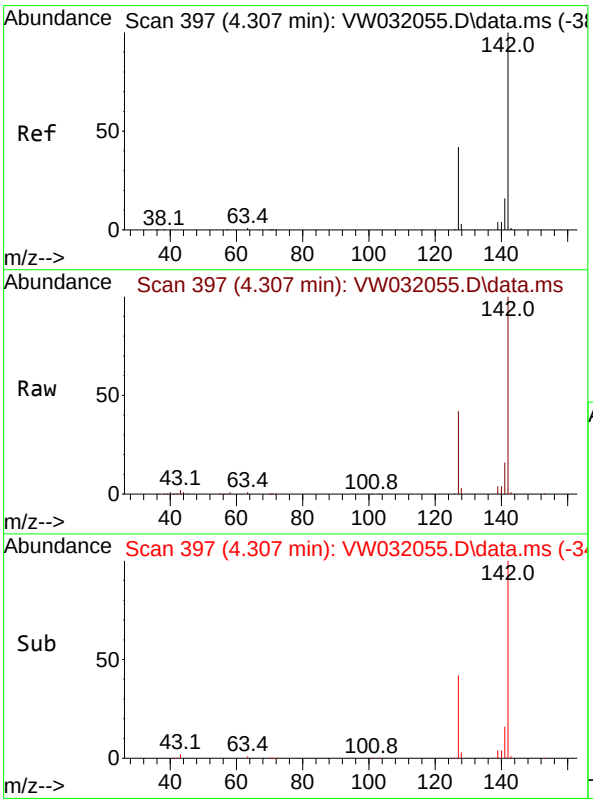
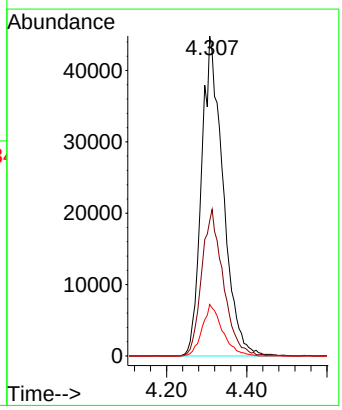


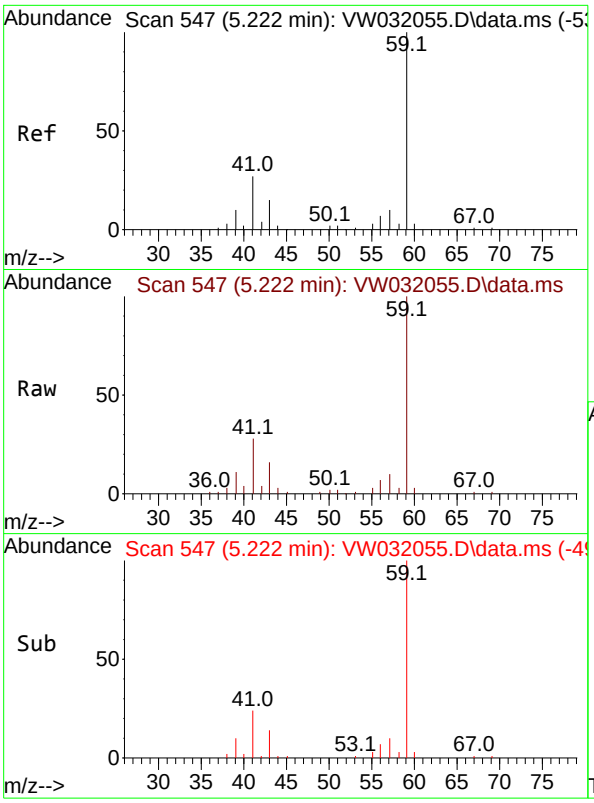




#10
Methyl Iodide
Concen: 47.909 ug/l
RT: 4.307 min Scan# 397
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:142 Resp: 167079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 45.8 | 36.6 | 55.0 |
| 141 | 15.1 | 12.1 | 18.1 |

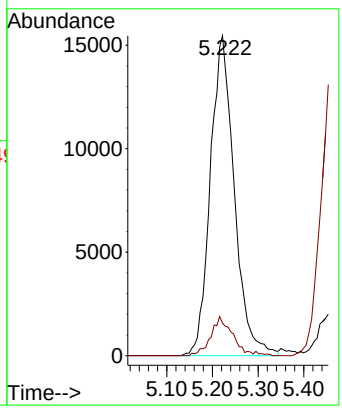





#11
Tert butyl alcohol
Concen: 269.294 ug/l
RT: 5.222 min Scan# 54
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 59 Resp: 5632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.9 | 8.7 | 13.1 |

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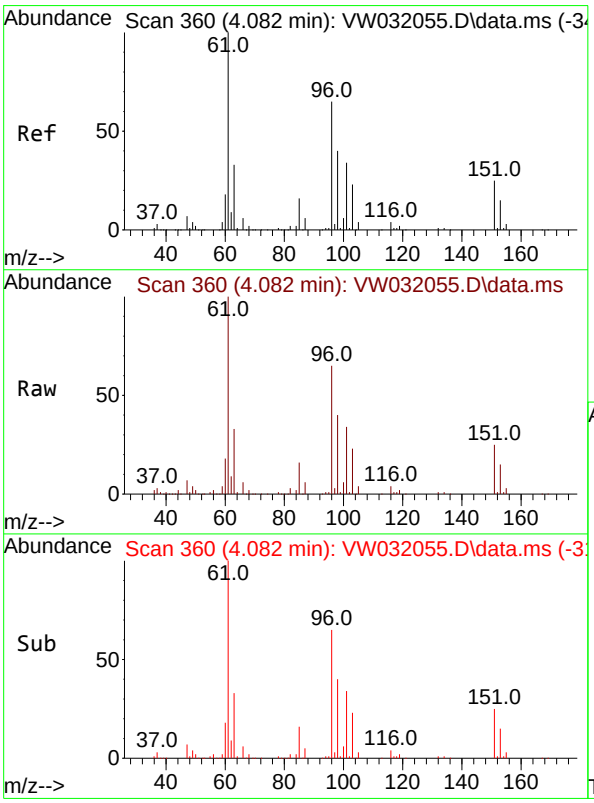
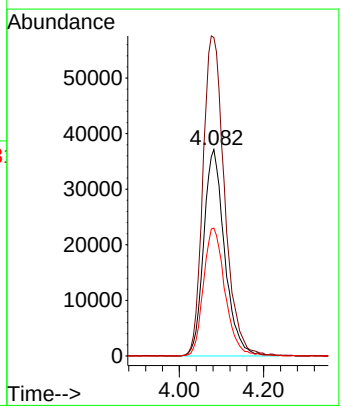
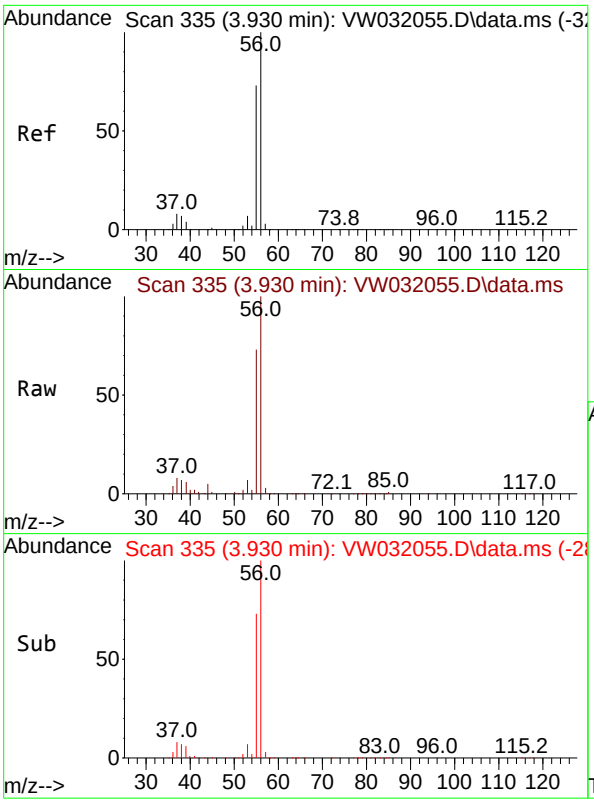



#12
1,1-Dichloroethene
Concen: 47.373 ug/l
RT: 4.082 min Scan# 360
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 96 Resp: 128304

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 154.3 | 123.4 | 185.2 |
| 98 | 61.9 | 49.5 | 74.3 |

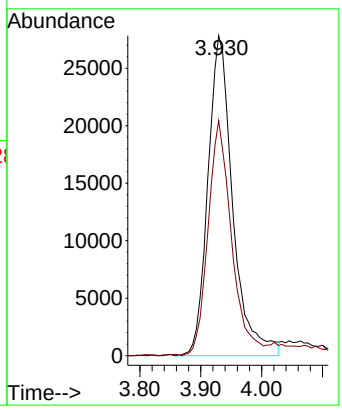





#13
Acrolein
Concen: 236.637 ug/l
RT: 3.930 min Scan# 3
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 56 Resp: 7885

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 69.3 | 55.4 | 83.2 |




**Instrument :**
MSVOA_W
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VSTDICCC050

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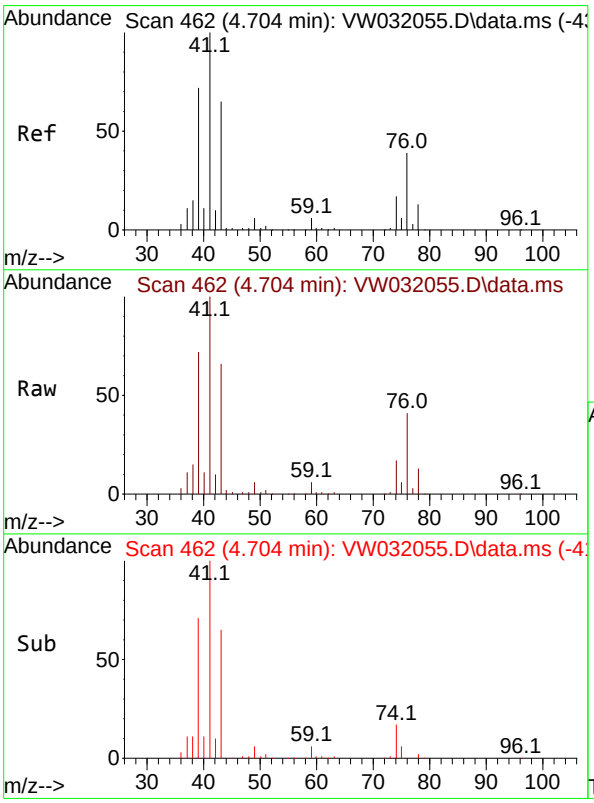
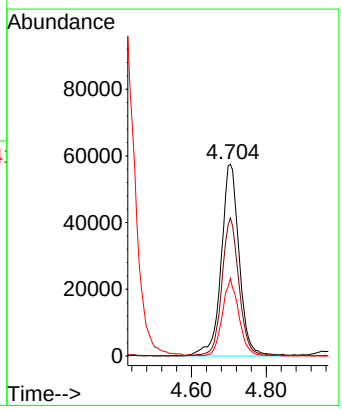
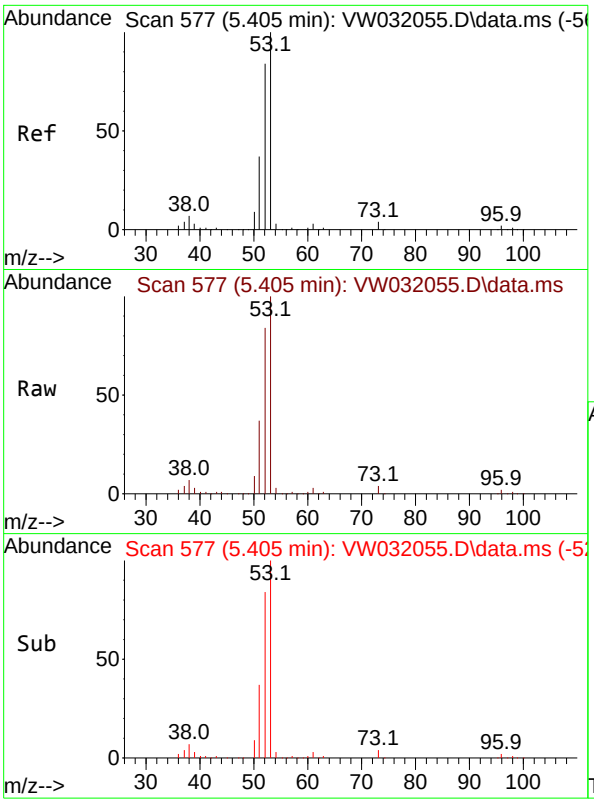



#14
Allyl chloride
Concen: 48.819 ug/l
RT: 4.704 min Scan# 462
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 41 Resp: 192434

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 68.1 | 54.5 | 81.7 |
| 76 | 36.6 | 29.3 | 43.9 |

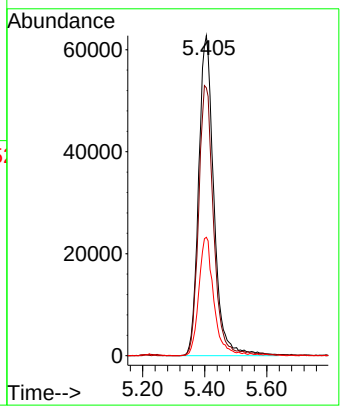





#15
Acrylonitrile
Concen: 262.963 ug/l
RT: 5.405 min Scan# 5
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 53 Resp: 21394

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.6 | 66.1 | 99.1 |
| 51 | 36.5 | 29.2 | 43.8 |




**Instrument :**
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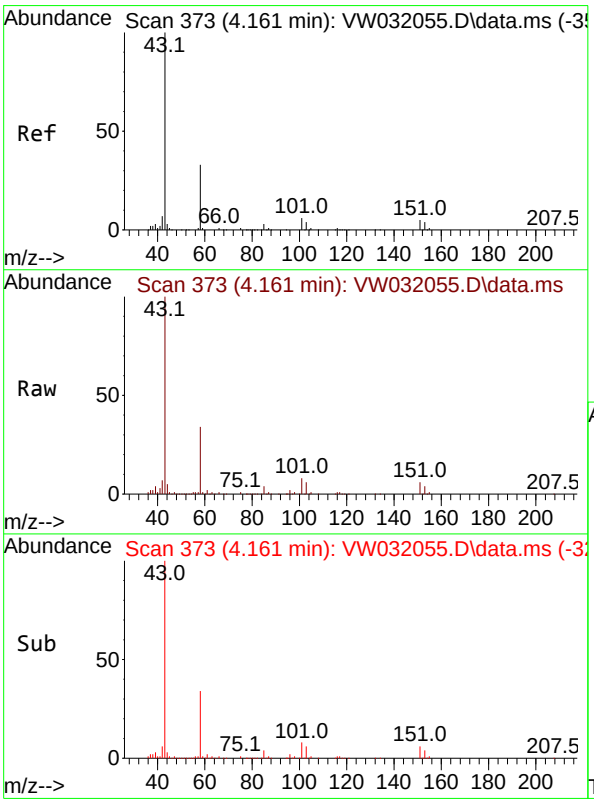
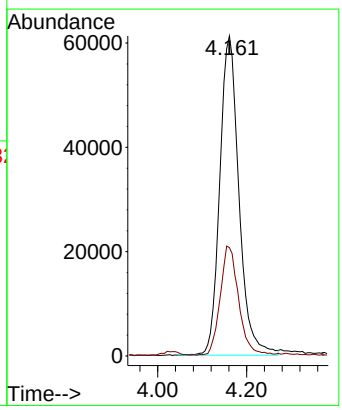
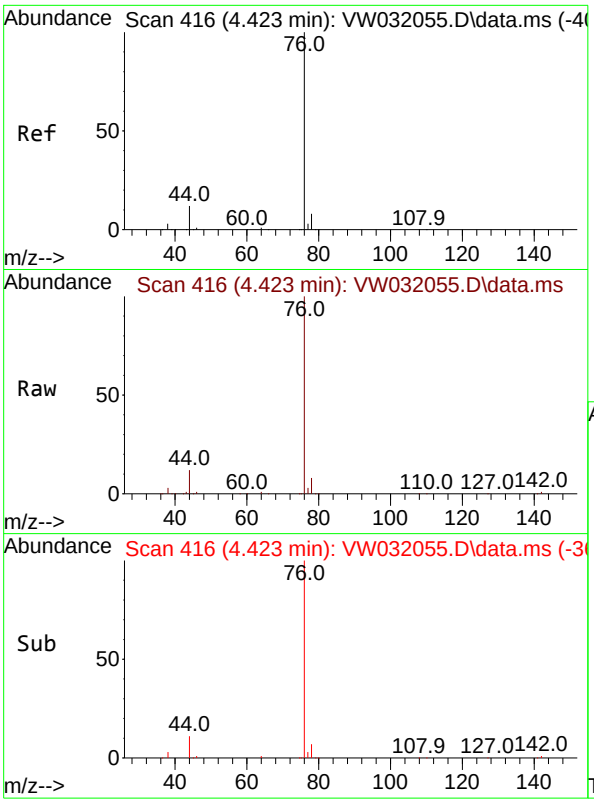



#16
Acetone
Concen: 244.127 ug/l
RT: 4.161 min Scan# 373
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 43 Resp: 182559

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.2 | 26.6 | 39.8 |

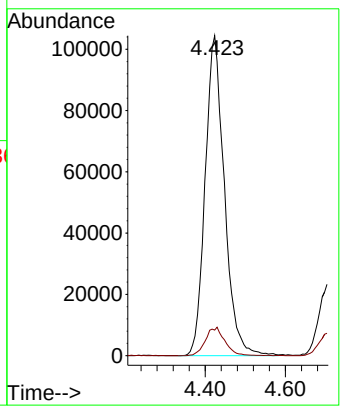





#17
Carbon Disulfide
Concen: 47.836 ug/l
RT: 4.423 min Scan# 4
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 76 Resp: 34775

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.0 | 6.4 | 9.6 |




**Instrument :**
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VSTDICCC050

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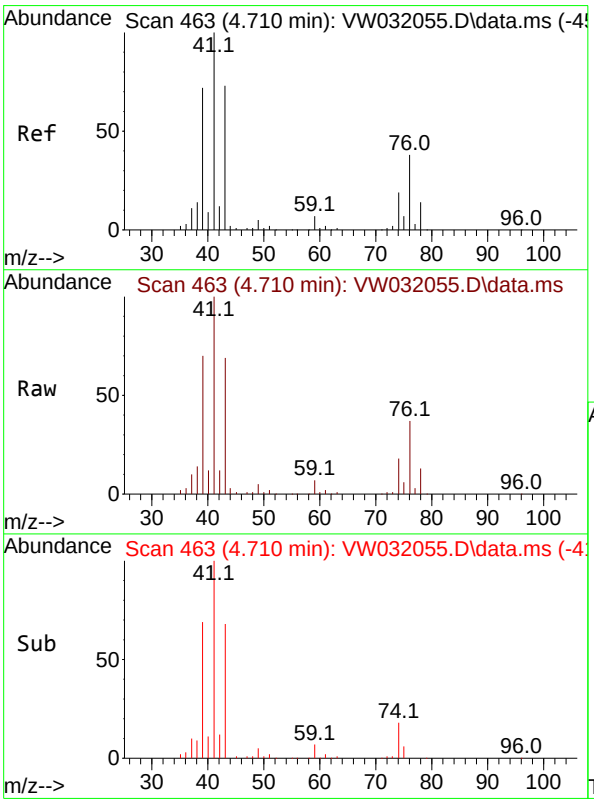
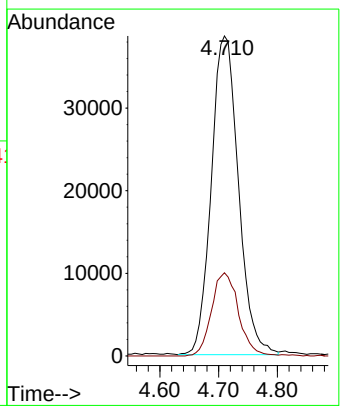
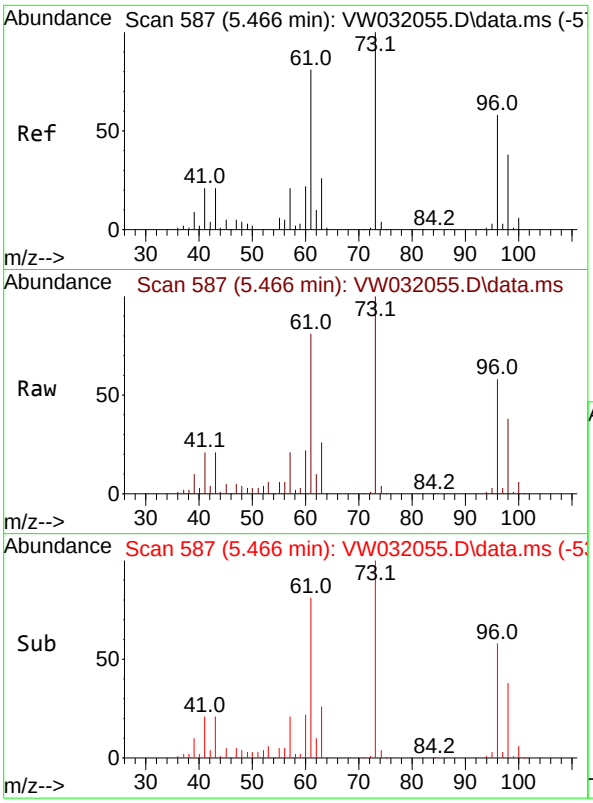



#18
Methyl Acetate
Concen: 52.361 ug/l
RT: 4.710 min Scan# 463
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 43 Resp: 123902

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 25.8 | 20.6 | 31.0 |

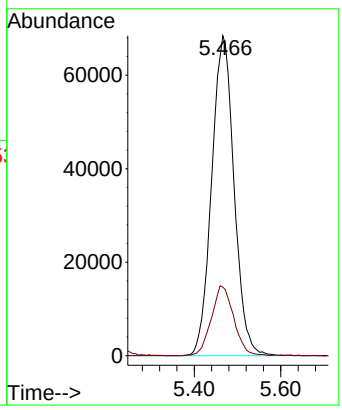





#19
Methyl tert-butyl Ether
Concen: 51.560 ug/l
RT: 5.466 min Scan# 5
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 73 Resp: 24604

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.5 | 17.2 | 25.8 |

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VSTDICCC050

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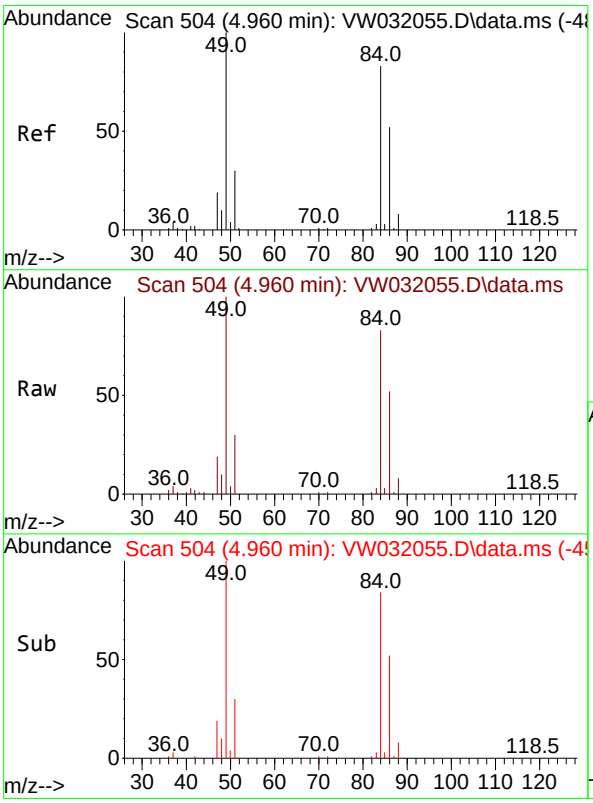
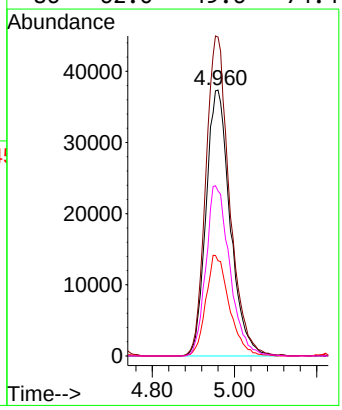
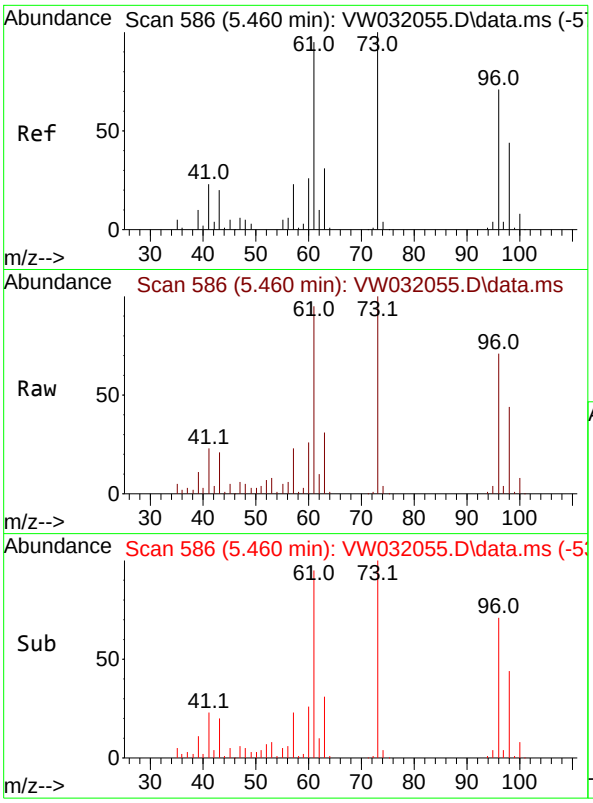



#20
Methylene Chloride
Concen: 44.016 ug/l
RT: 4.960 min Scan# 504
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 84 Resp: 152186

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 119.9 | 95.9 | 143.9 |
| 51 | 35.8 | 28.6 | 43.0 |
| 86 | 62.0 | 49.6 | 74.4 |

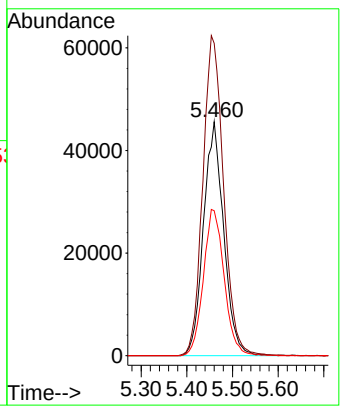





#21
trans-1,2-Dichloroethene
Concen: 48.707 ug/l
RT: 5.460 min Scan# 5
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 96 Resp: 13999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 133.5 | 106.8 | 160.2 |
| 98 | 62.0 | 49.6 | 74.4 |

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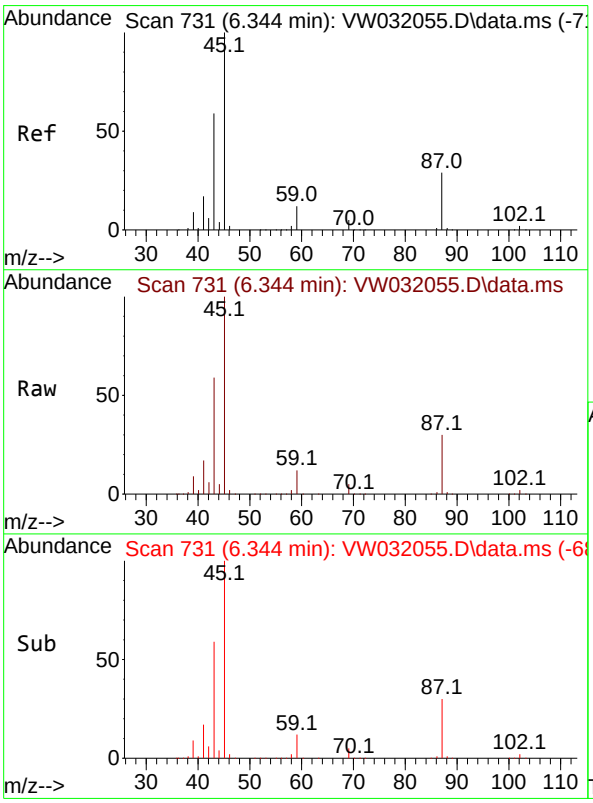
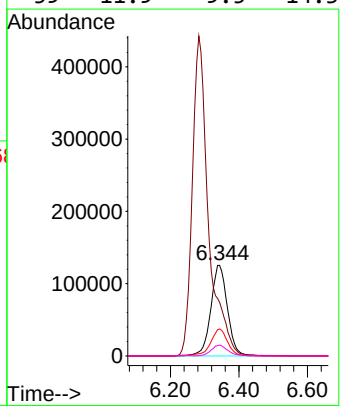
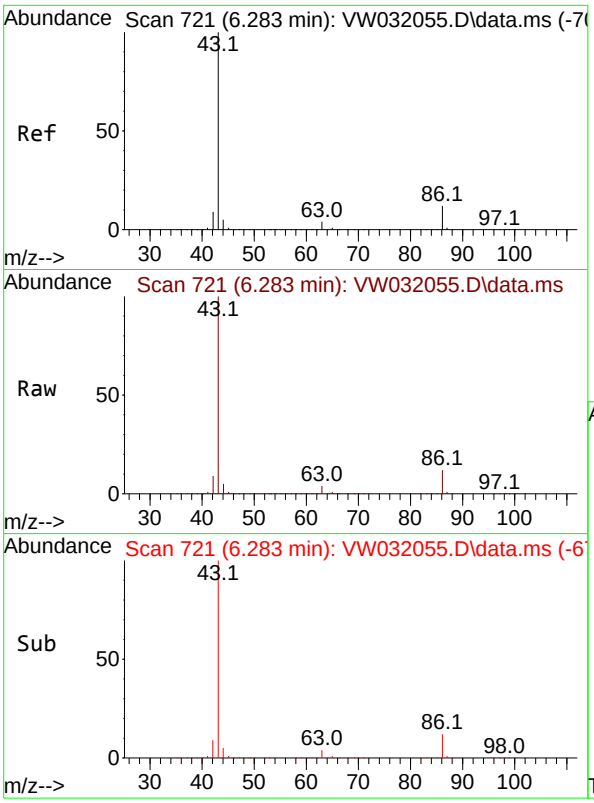



#22
Diisopropyl ether
Concen: 50.751 ug/l
RT: 6.344 min Scan# 731
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 45 Resp: 421731

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 58.7 | 47.0 | 70.4 |
| 87 | 29.8 | 23.8 | 35.8 |
| 59 | 11.9 | 9.5 | 14.3 |

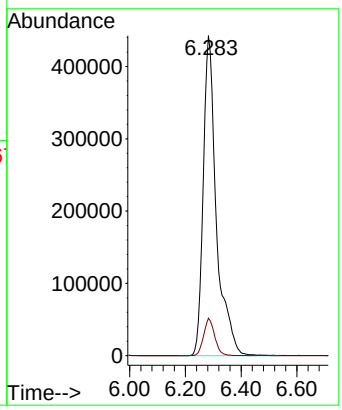





#23
Vinyl Acetate
Concen: 265.873 ug/l
RT: 6.283 min Scan# 7
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 43 Resp: 145055

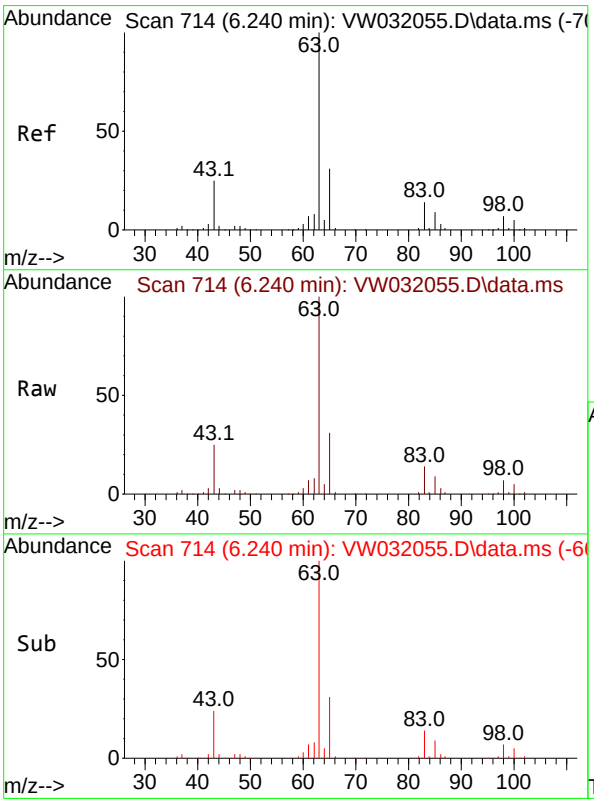
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.7 | 9.4 | 14.0 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

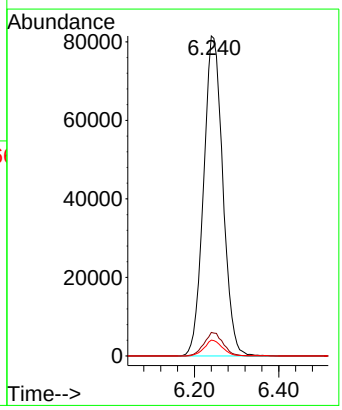
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

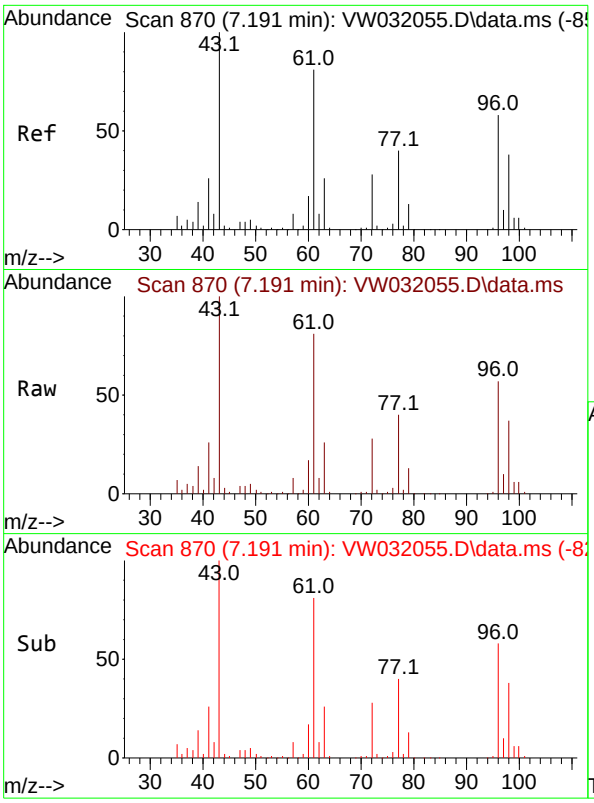



#24
1,1-Dichloroethane
Concen: 48.646 ug/l
RT: 6.240 min Scan# 714
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 63 Resp: 258279

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.4 | 3.7 | 11.1 |
| 100 | 4.9 | 2.5 | 7.4 |






#25
2-Butanone
Concen: 267.883 ug/l
RT: 7.191 min Scan# 8
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 43 Resp: 28471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 27.9 | 22.3 | 33.5 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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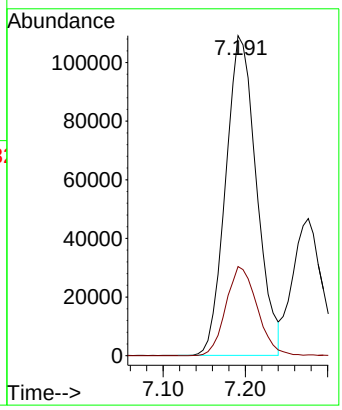
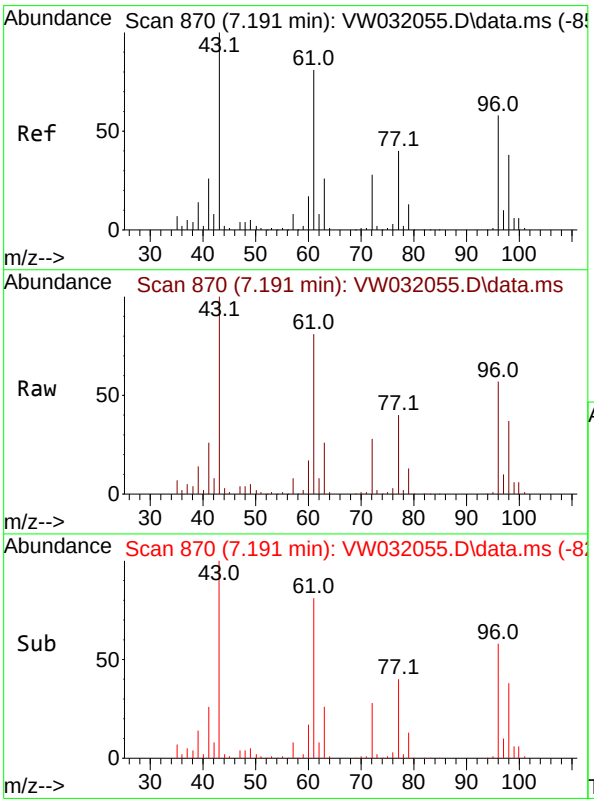
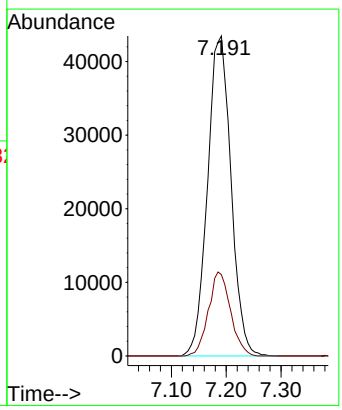


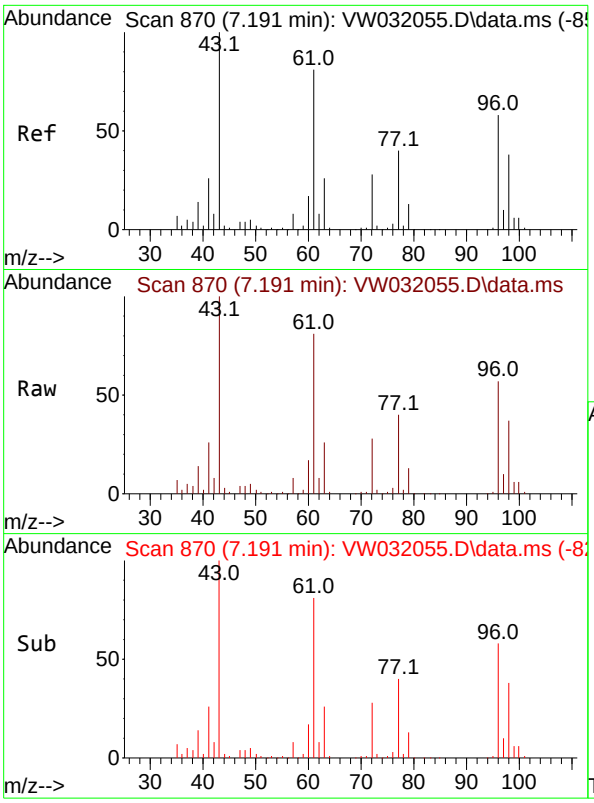




#26
2,2-Dichloropropane
Concen: 48.578 ug/l
RT: 7.191 min Scan# 870
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 77 Resp: 129390

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 24.6 | 12.3 | 36.9 |

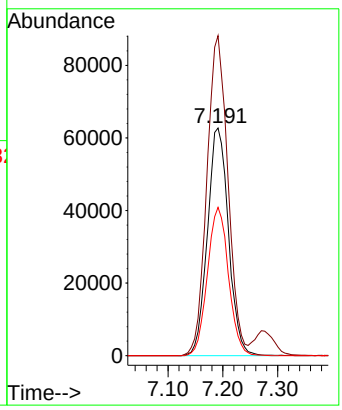





#27
cis-1,2-Dichloroethene
Concen: 49.779 ug/l
RT: 7.191 min Scan# 8
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 96 Resp: 16724

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 140.6 | 0.0 | 281.2 |
| 98 | 65.4 | 0.0 | 130.8 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

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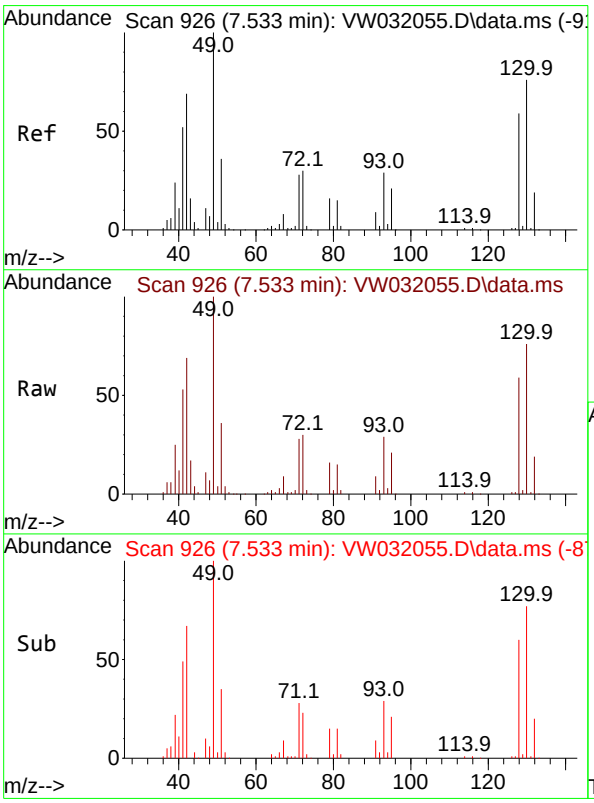
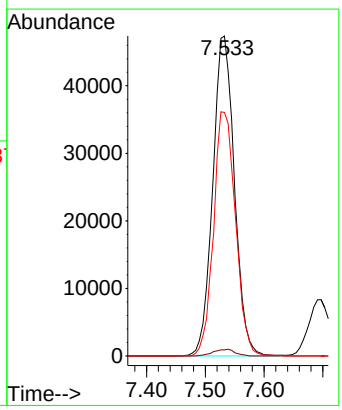
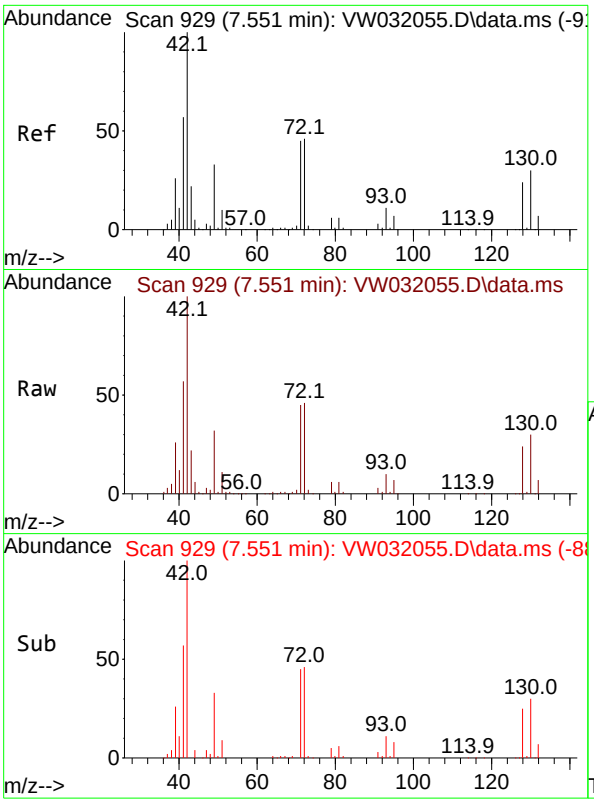



#28
Bromochloromethane
Concen: 50.191 ug/l
RT: 7.533 min Scan# 926
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 49 Resp: 121266

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.1 | 0.0 | 4.2 |
| 130 | 77.4 | 61.9 | 92.9 |

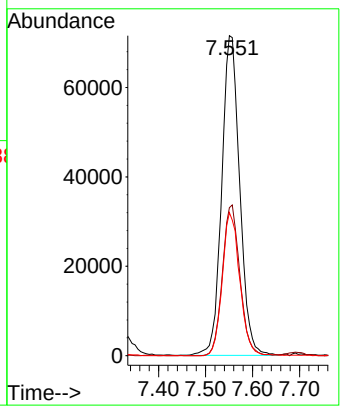





#29
Tetrahydrofuran
Concen: 272.100 ug/l
RT: 7.551 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 42 Resp: 19071

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 45.8 | 36.6 | 55.0 |
| 71 | 43.4 | 34.7 | 52.1 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

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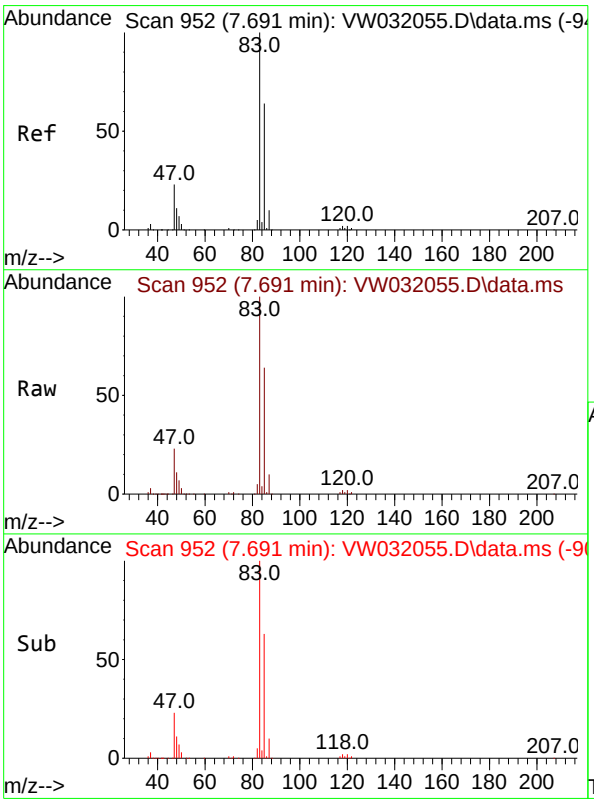
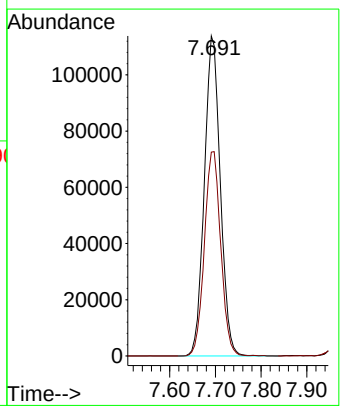
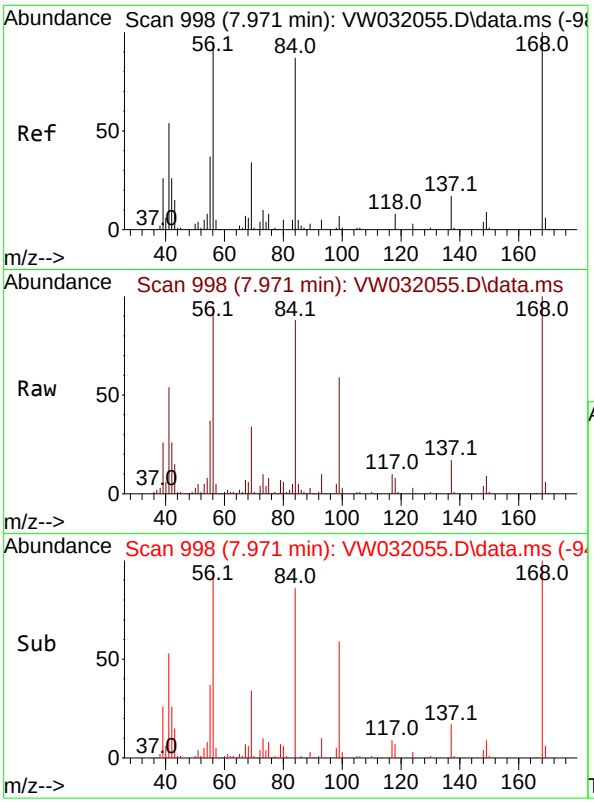



#30
Chloroform
Concen: 49.018 ug/l
RT: 7.691 min Scan# 952
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 83 Resp: 275905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.7 | 51.0 | 76.4 |

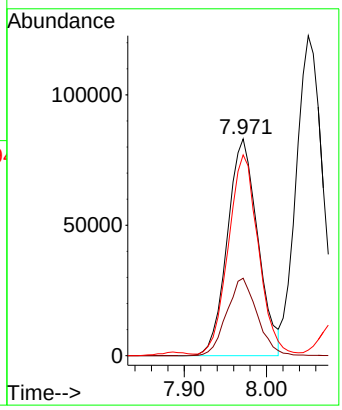





#31
Cyclohexane
Concen: 46.622 ug/l
RT: 7.971 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 56 Resp: 21459

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 35.7 | 28.6 | 42.8 |
| 84 | 91.2 | 73.0 | 109.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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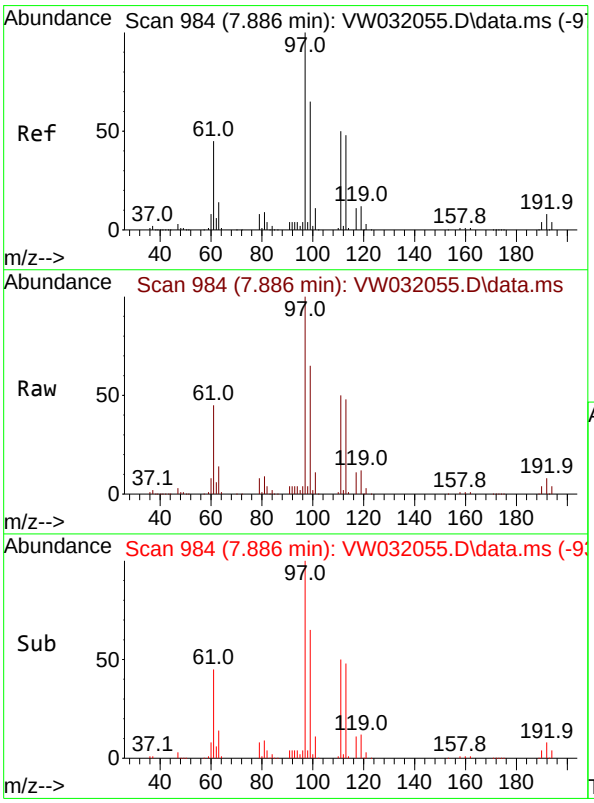
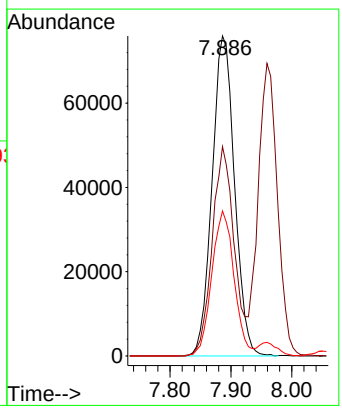
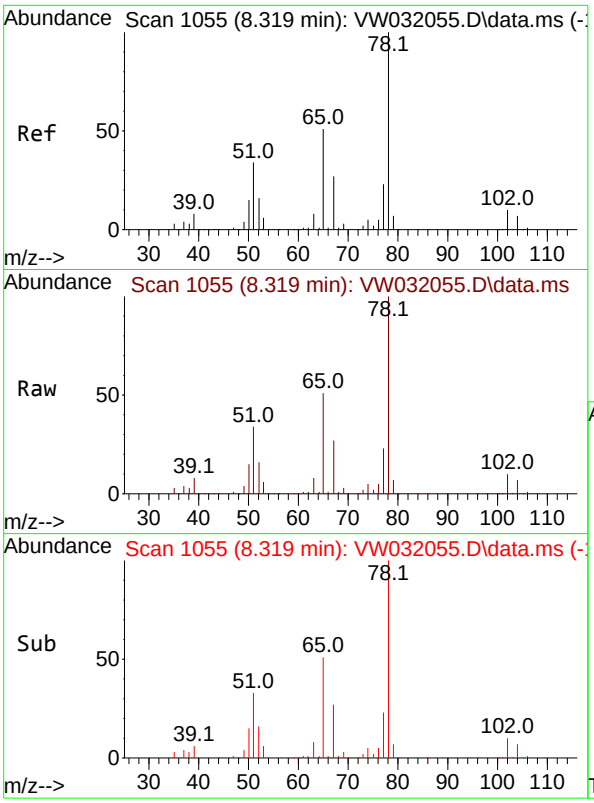



#32
1,1,1-Trichloroethane
Concen: 47.617 ug/l
RT: 7.886 min Scan# 984
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 97 Resp: 194676

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.8 | 51.8 | 77.8 |
| 61 | 44.9 | 35.9 | 53.9 |

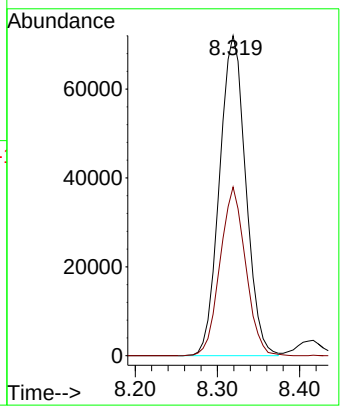





#33
1,2-Dichloroethane-d4
Concen: 49.529 ug/l
RT: 8.319 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 65 Resp: 15997

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.2 | 0.0 | 102.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

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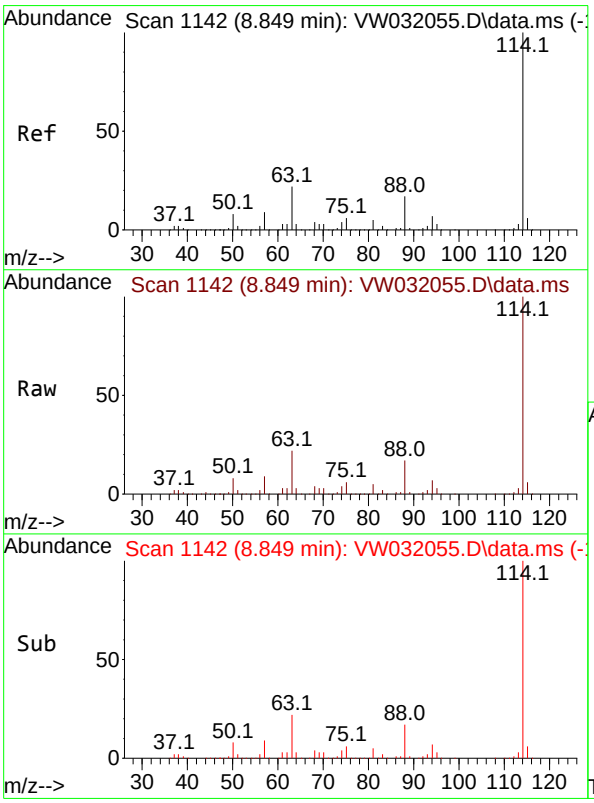
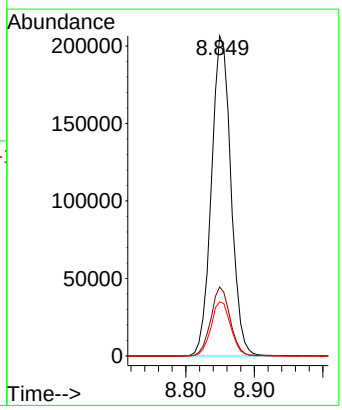
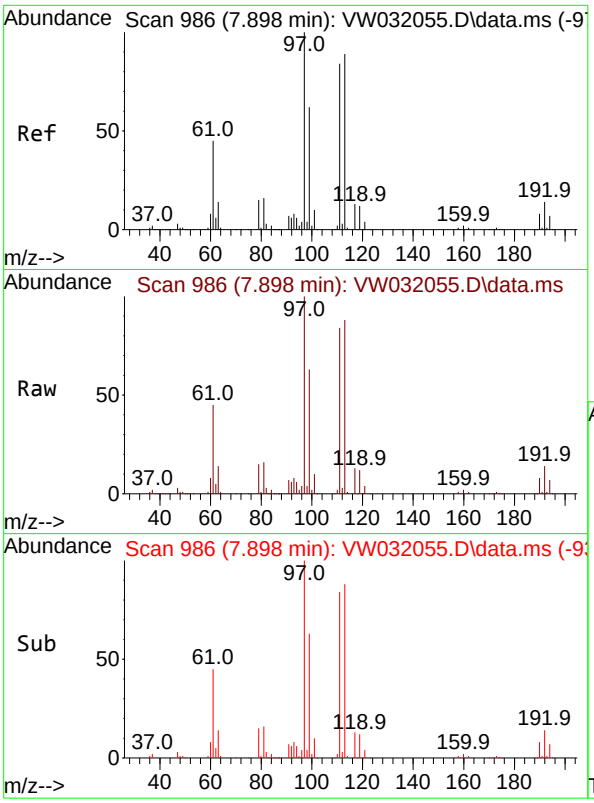



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:114 Resp: 406973

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.5 | 0.0 | 43.0 |
| 88 | 16.9 | 0.0 | 33.8 |

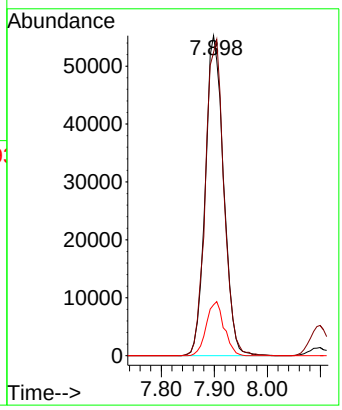





#35
Dibromofluoromethane
Concen: 50.279 ug/l
RT: 7.898 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:113 Resp: 13219

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 100.1 | 80.1 | 120.1 |
| 192 | 16.4 | 13.1 | 19.7 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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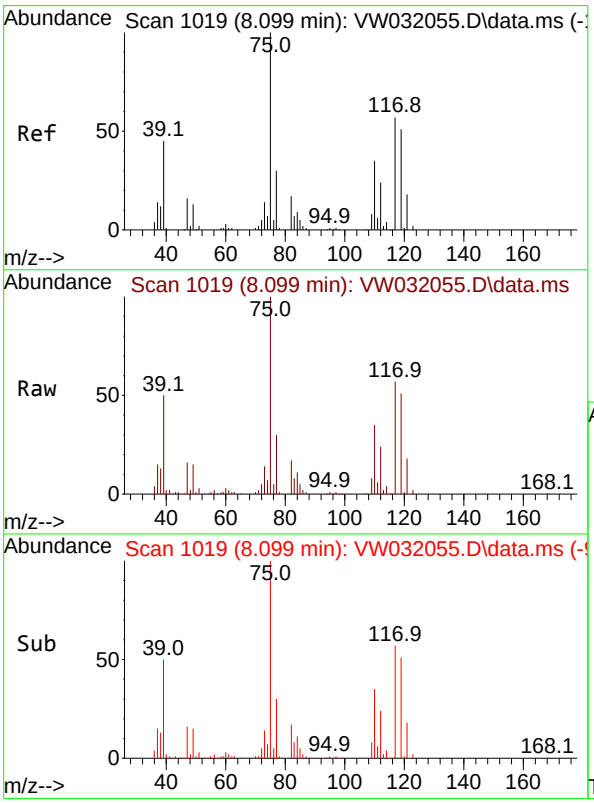
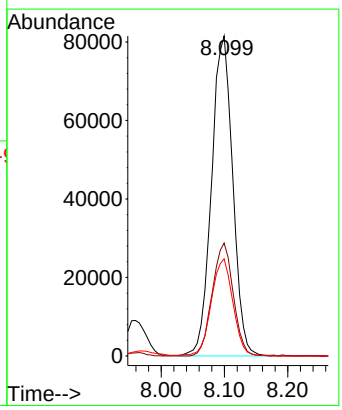
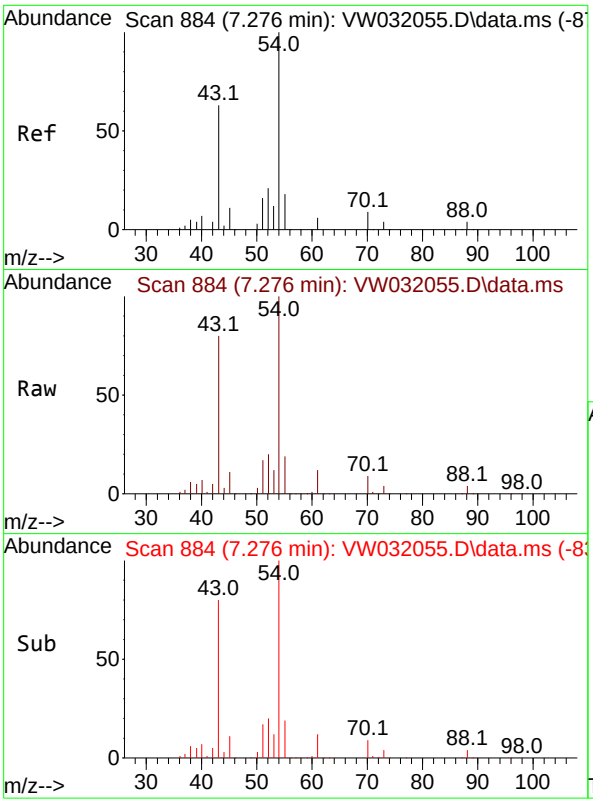



#36
1,1-Dichloropropene
Concen: 51.274 ug/l
RT: 8.099 min Scan# 1019
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 75 Resp: 190046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 34.8 | 17.4 | 52.2 |
| 77 | 30.9 | 24.7 | 37.1 |






#37
Ethyl Acetate
Concen: 54.829 ug/l
RT: 7.276 min Scan# 8
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 43 Resp: 11968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.7 | 11.8 | 17.6 |
| 70 | 11.7 | 9.4 | 14.0 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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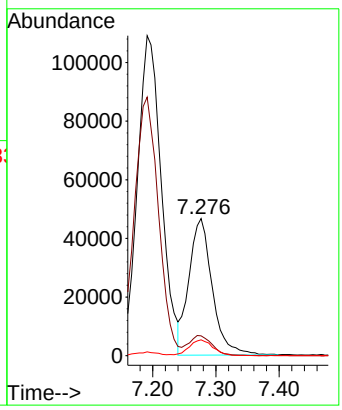
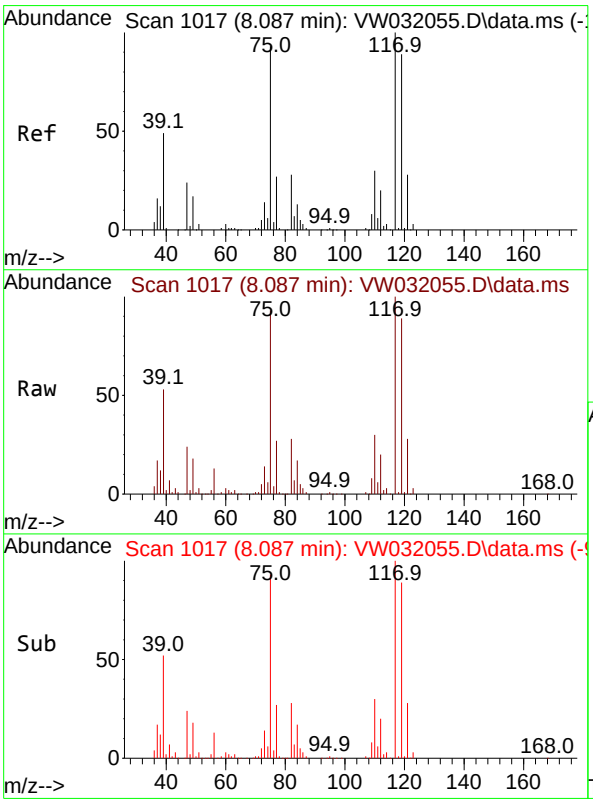
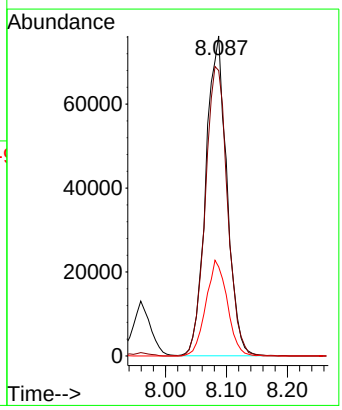


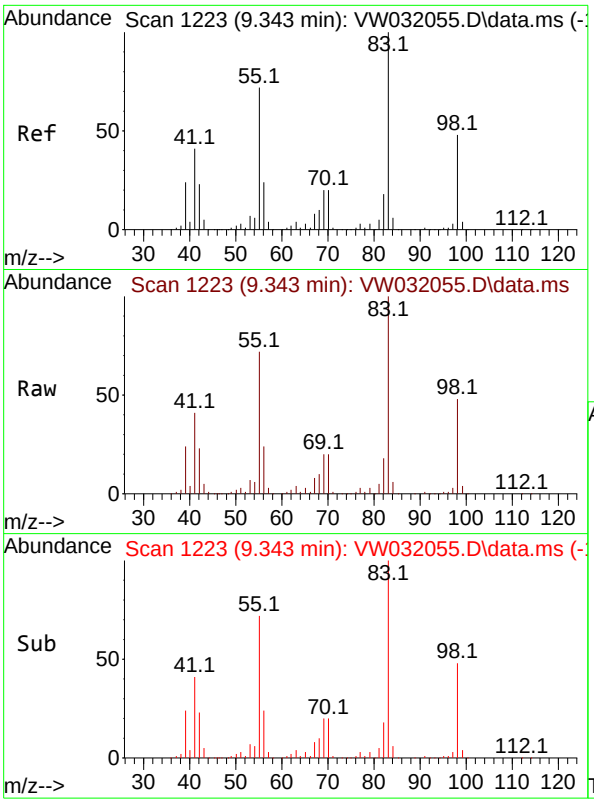




#38
Carbon Tetrachloride
Concen: 51.000 ug/l
RT: 8.087 min Scan# 1017
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:117 Resp: 182422

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 89.3 | 71.4 | 107.2 |
| 121 | 27.9 | 22.3 | 33.5 |






#39
Methylcyclohexane
Concen: 52.093 ug/l
RT: 9.343 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 83 Resp: 23534

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 72.4 | 57.9 | 86.9 |
| 98 | 47.9 | 38.3 | 57.5 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

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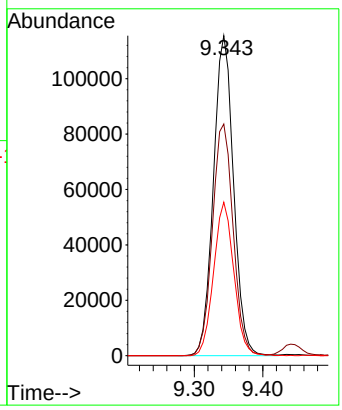
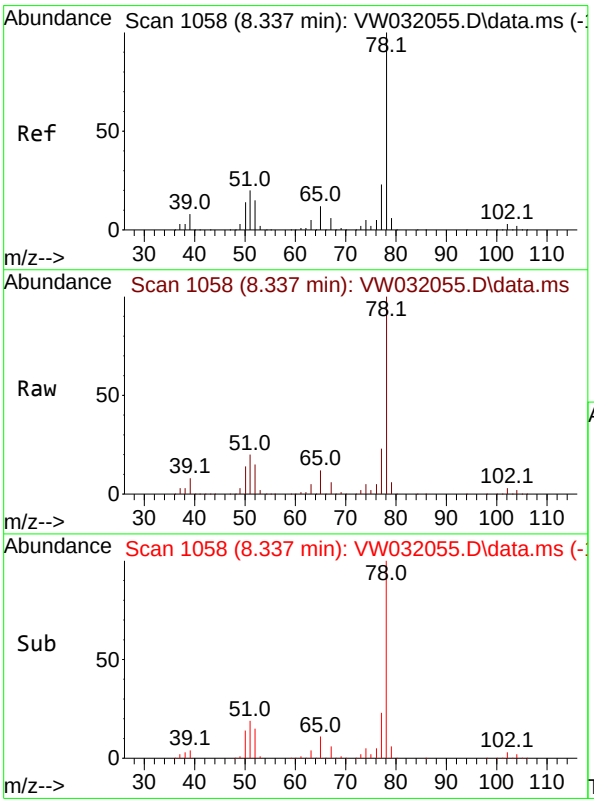
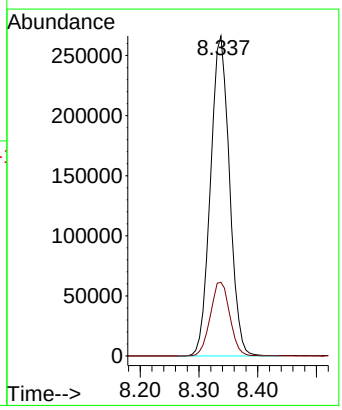


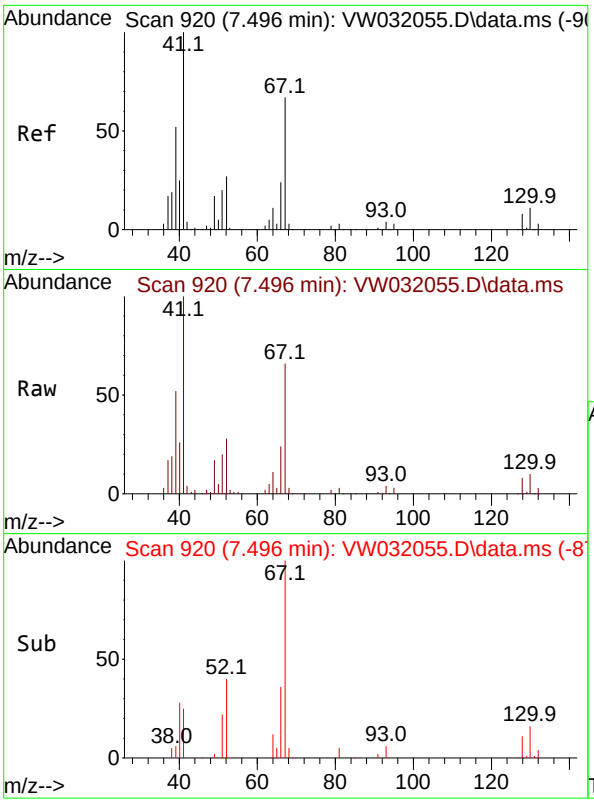




#40
Benzene
Concen: 51.883 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 78 Resp: 597760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.0 | 18.4 | 27.6 |

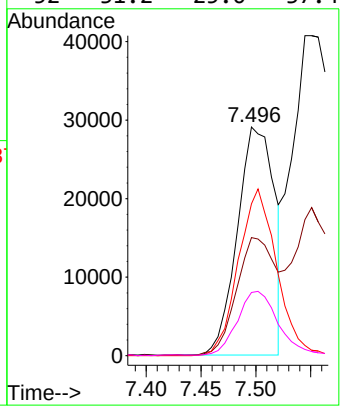





#41
Methacrylonitrile
Concen: 55.039 ug/l
RT: 7.496 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 41 Resp: 6813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 53.2 | 42.6 | 63.8 |
| 67 | 76.2 | 61.0 | 91.4 |
| 52 | 31.2 | 25.0 | 37.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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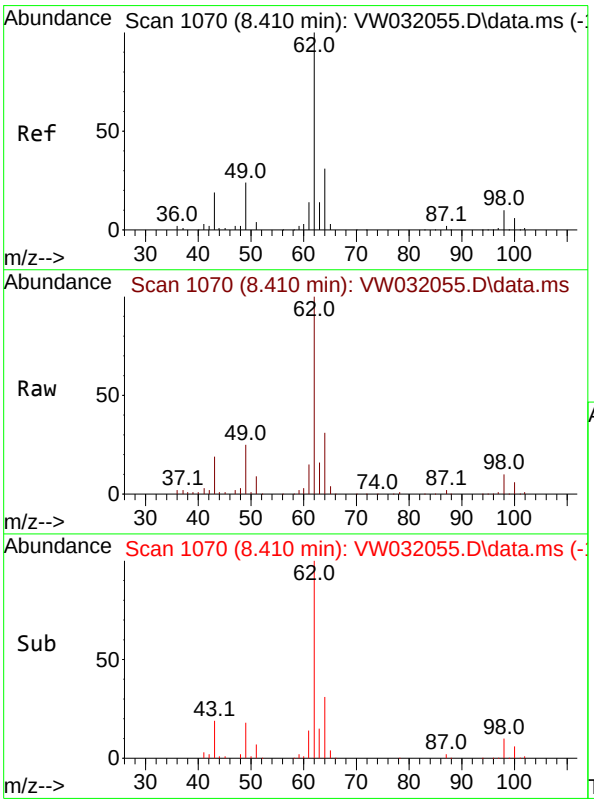
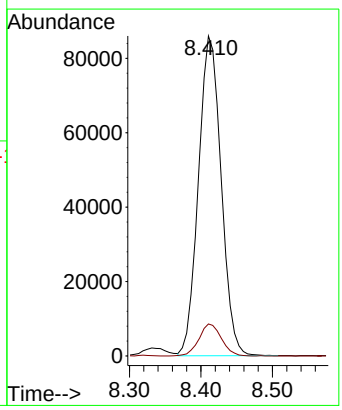
Supervised By :Semsettin Yesilyurt 08/12/2025

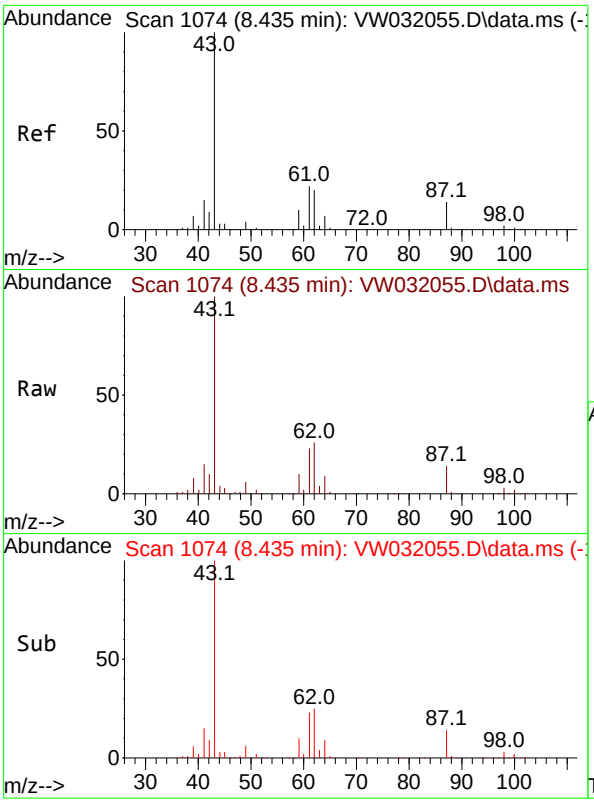



#42
1,2-Dichloroethane
Concen: 51.471 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 62 Resp: 189755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.9 | 0.0 | 19.8 |

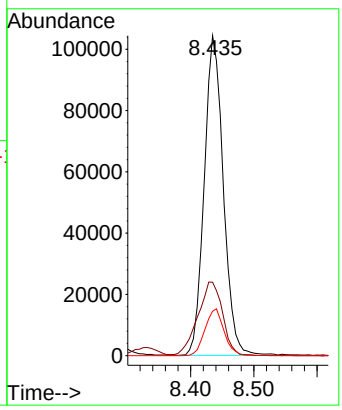





#43
Isopropyl Acetate
Concen: 54.544 ug/l
RT: 8.435 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 43 Resp: 21906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 29.8 | 23.8 | 35.8 |
| 87 | 14.6 | 11.7 | 17.5 |




**Instrument :**
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VSTDICCC050

**Manual Integrations APPROVED**

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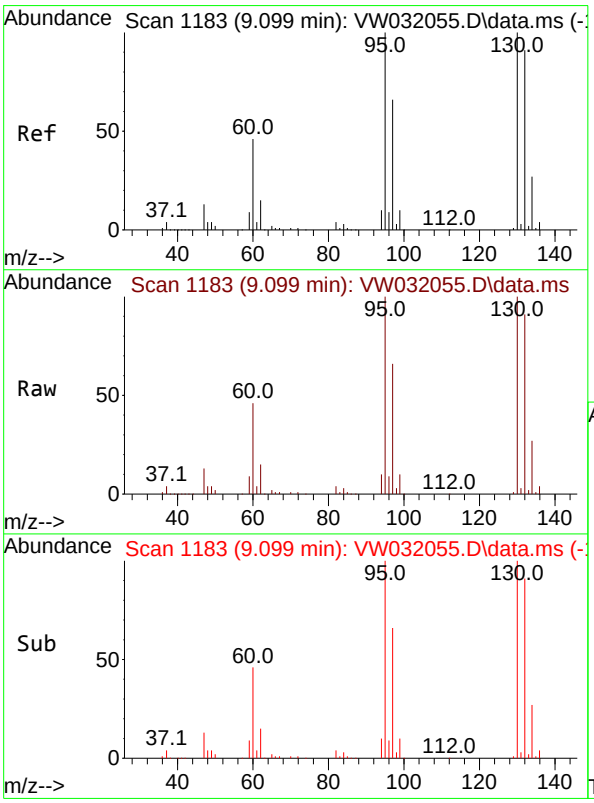
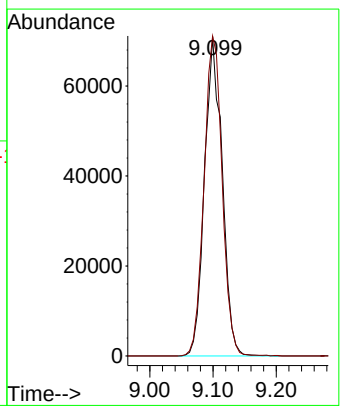
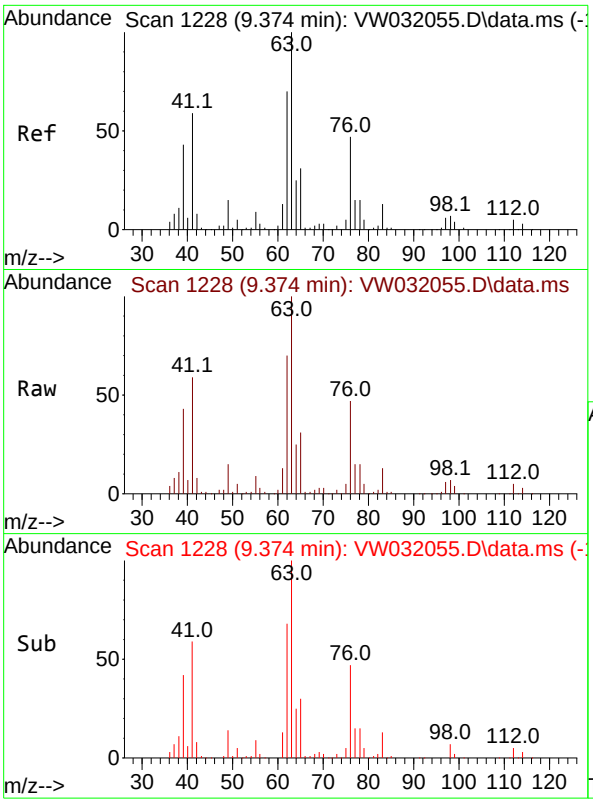



#44
Trichloroethene
Concen: 50.264 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:130 Resp: 137910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 100.3 | 0.0 | 200.6 |

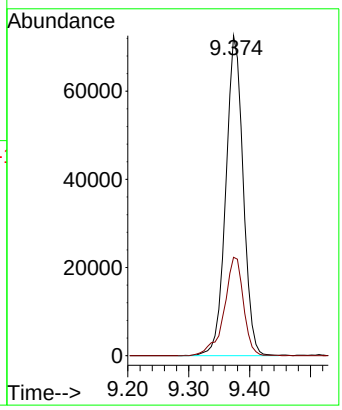





#45
1,2-Dichloropropane
Concen: 51.537 ug/l
RT: 9.374 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 63 Resp: 14344

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.7 | 24.6 | 36.8 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

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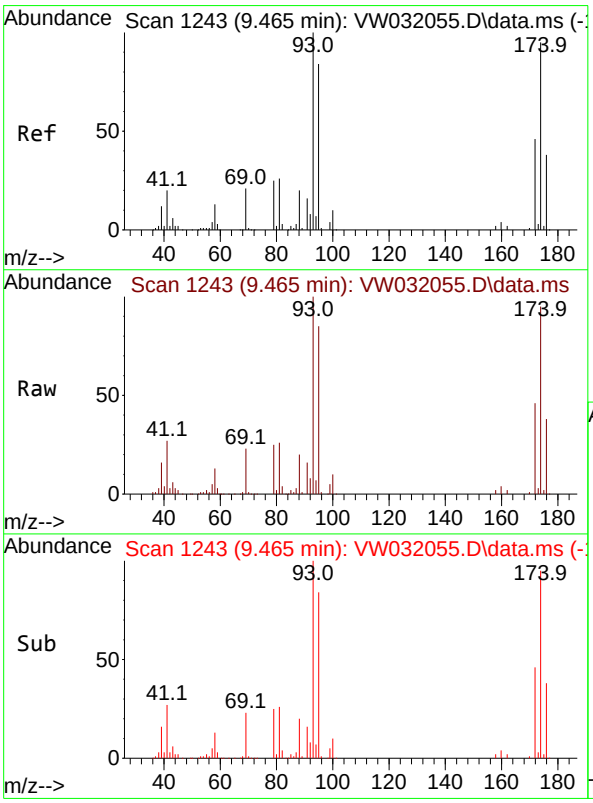
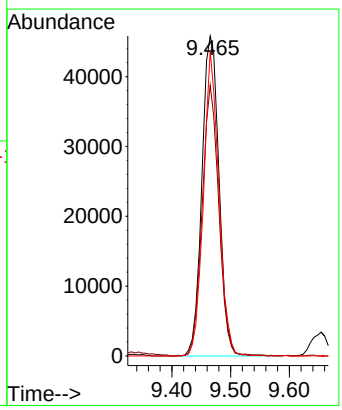
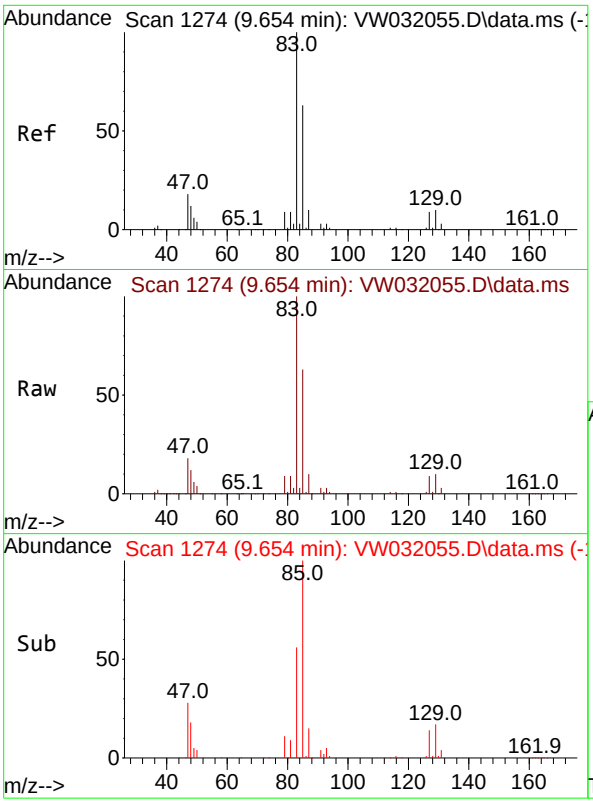



#46
Dibromomethane
Concen: 51.770 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 93 Resp: 93001

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 81.6 | 65.3 | 97.9 |
| 174 | 85.7 | 68.6 | 102.8 |

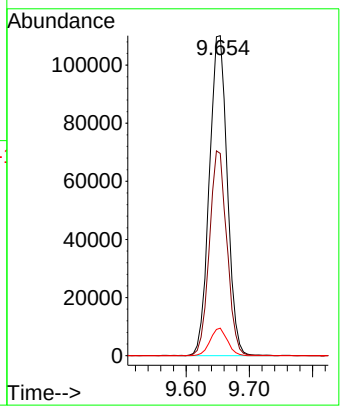





#47
Bromodichloromethane
Concen: 52.307 ug/l
RT: 9.654 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 83 Resp: 21652

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.2 | 50.6 | 75.8 |
| 127 | 8.6 | 6.9 | 10.3 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

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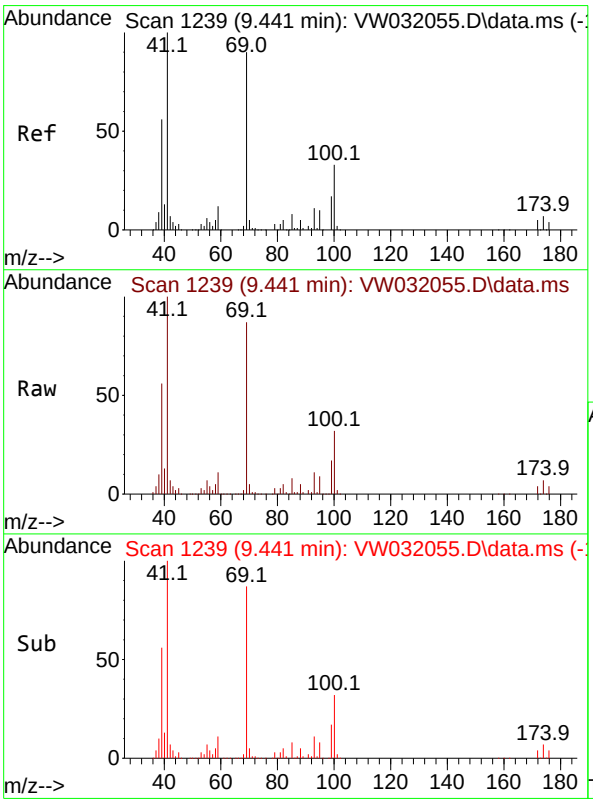
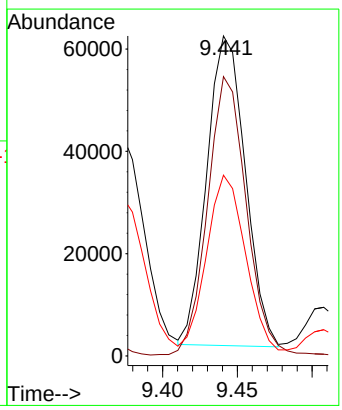
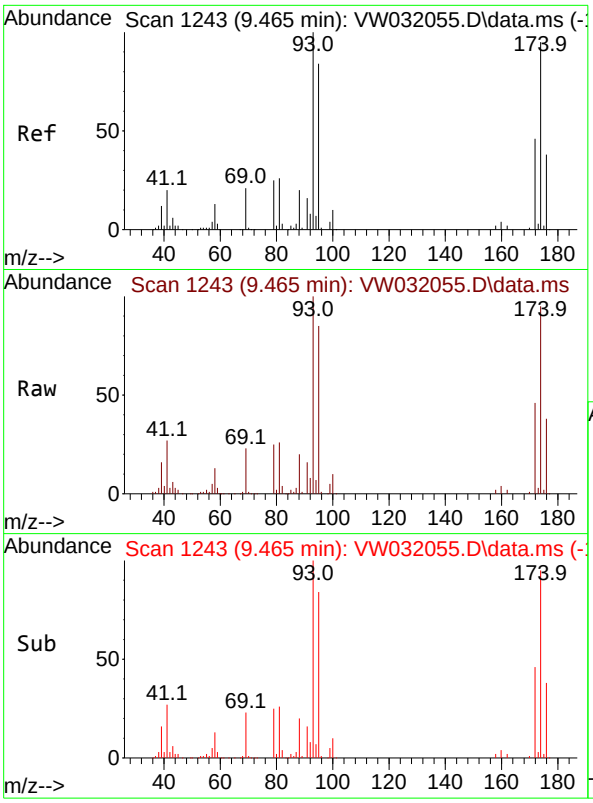



#48
Methyl methacrylate
Concen: 55.849 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 41 Resp: 108287

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 91.3 | 73.0 | 109.6 |
| 39 | 56.2 | 45.0 | 67.4 |

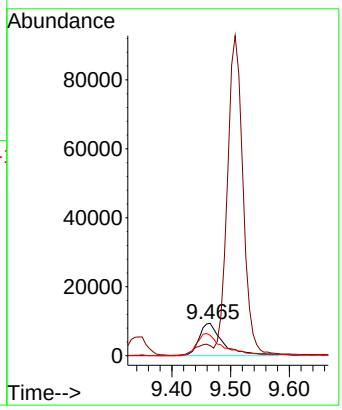





#49
1,4-Dioxane
Concen: 1144.321 ug/l
RT: 9.465 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 88 Resp: 2657

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 25.7 | 20.6 | 30.8 |
| 58 | 75.5 | 60.4 | 90.6 |




**Instrument :**
MSVOA_W
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VSTDICCC050

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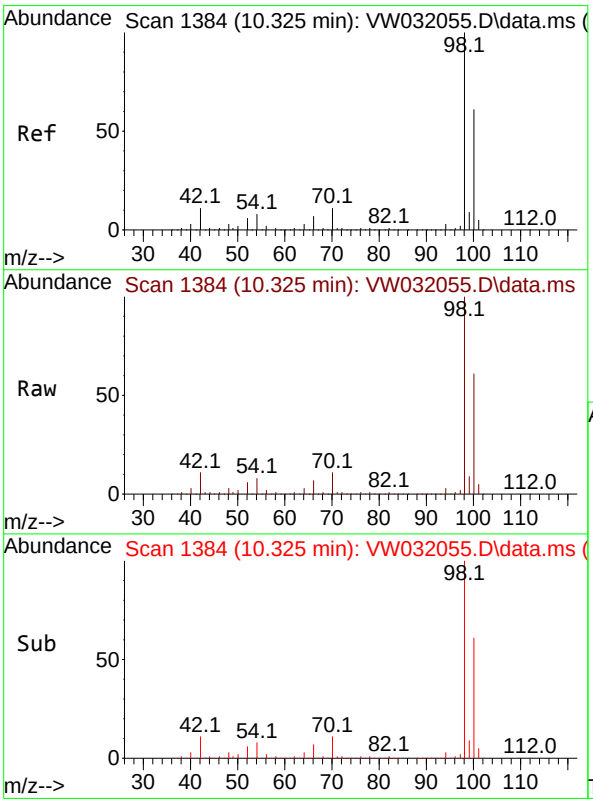
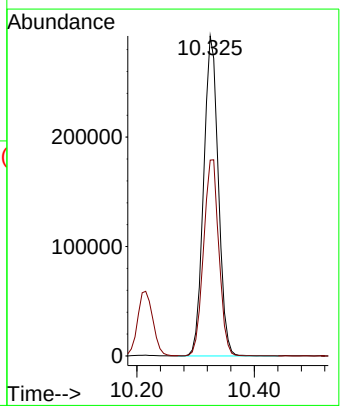
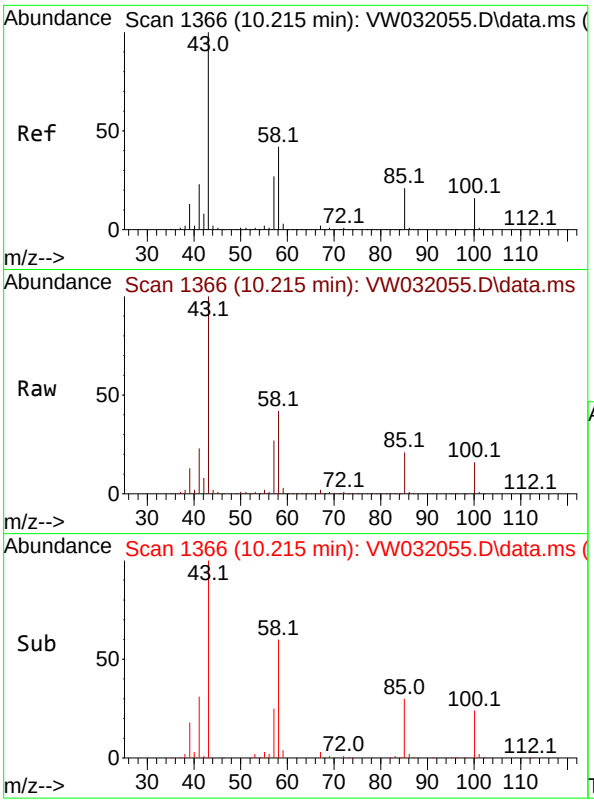



#50
Toluene-d8
Concen: 52.098 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 98 Resp: 506634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.9 | 51.1 | 76.7 |






#51
4-Methyl-2-Pentanone
Concen: 280.194 ug/l
RT: 10.215 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 43 Resp: 63517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 41.4 | 33.1 | 49.7 |

**Instrument :**
MSVOA_W
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VSTDICCC050

**Manual Integrations**
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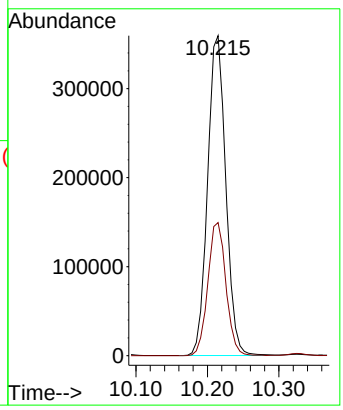
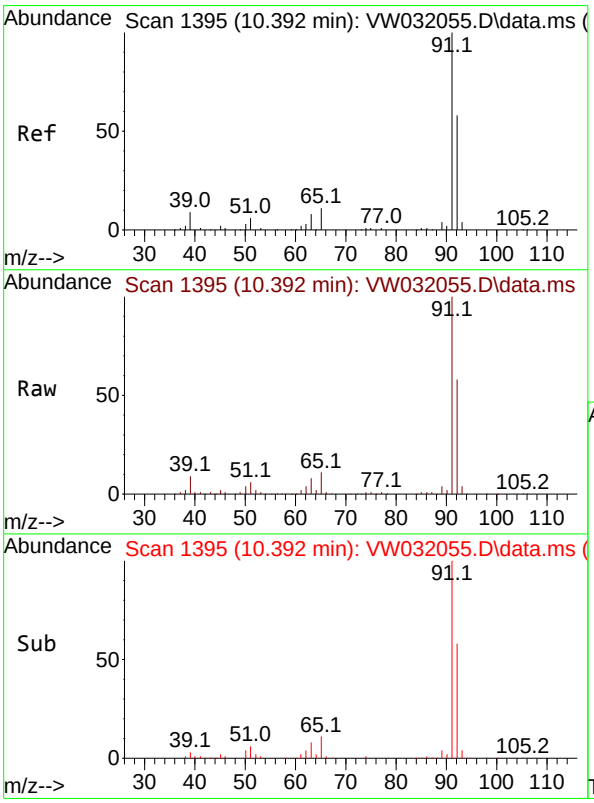
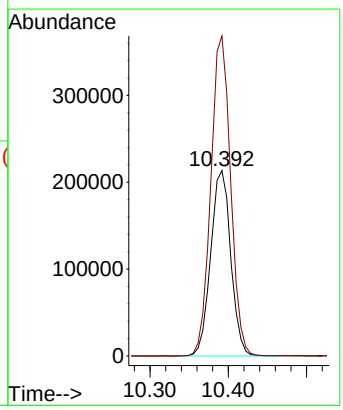


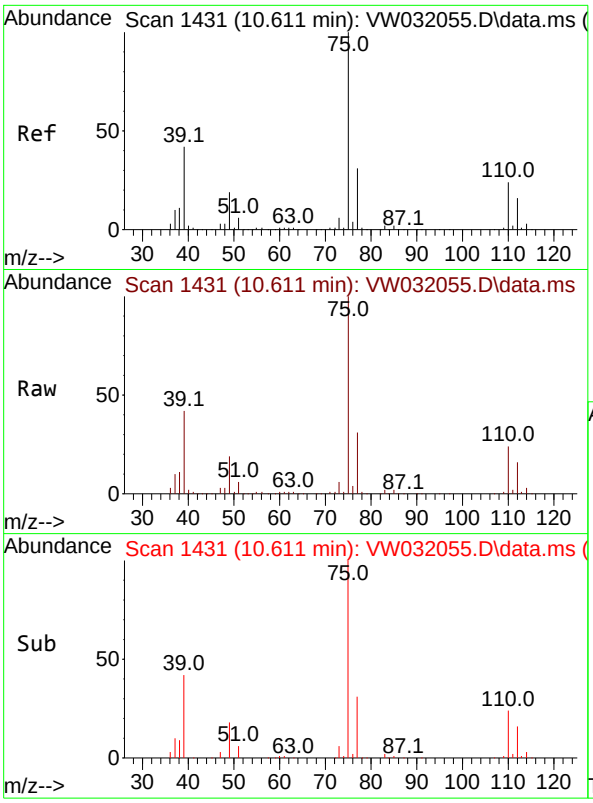




#52
Toluene
Concen: 52.258 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 92 Resp: 379230

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 170.4 | 136.3 | 204.5 |

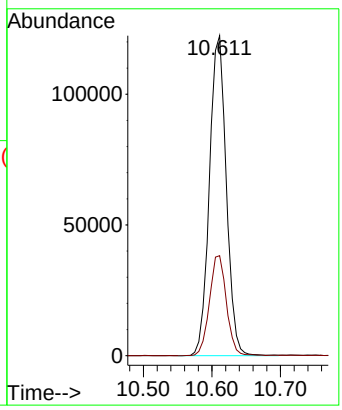





#53
t-1,3-Dichloropropene
Concen: 54.035 ug/l
RT: 10.611 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 75 Resp: 20955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.3 | 25.0 | 37.6 |

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MSVOA_W
**ClientSampleId :**
VSTDICCC050

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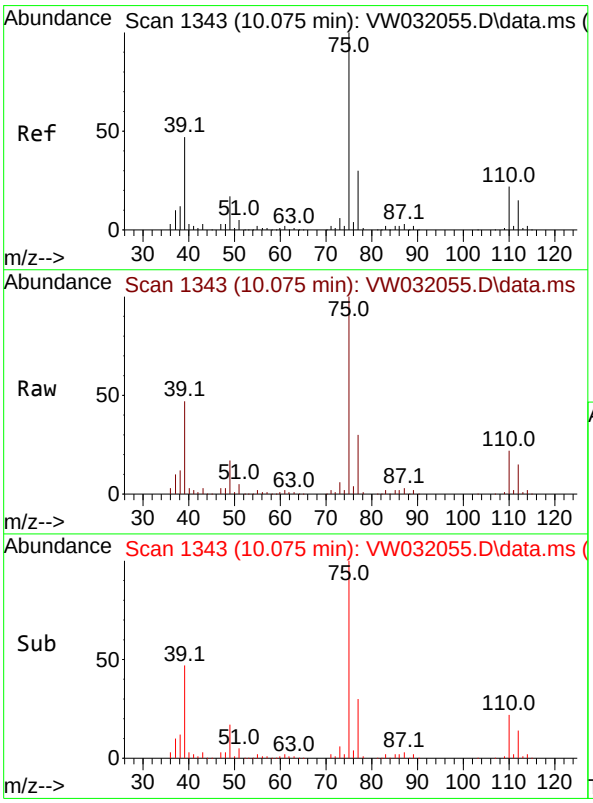
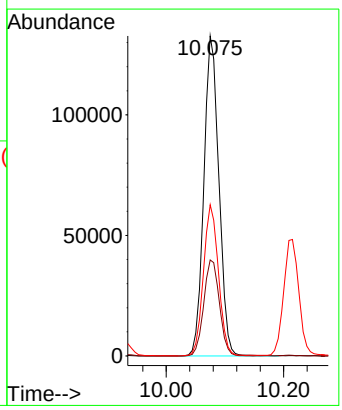
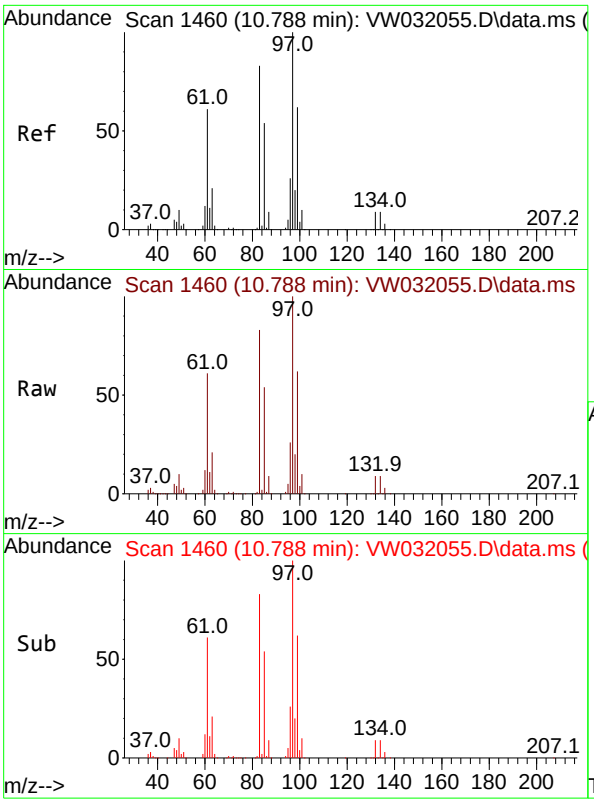



#54
cis-1,3-Dichloropropene
Concen: 53.744 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 75 Resp: 236454

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.0 | 24.0 | 36.0 |
| 39 | 47.3 | 37.8 | 56.8 |

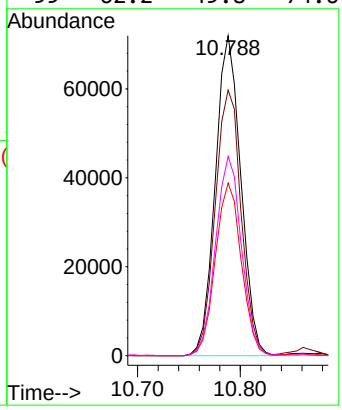





#55
1,1,2-Trichloroethane
Concen: 52.088 ug/l
RT: 10.788 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 97 Resp: 12434

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 83.0 | 66.4 | 99.6 |
| 85 | 53.9 | 43.1 | 64.7 |
| 99 | 62.2 | 49.8 | 74.6 |

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**ClientSampleId :**
VSTDICCC050

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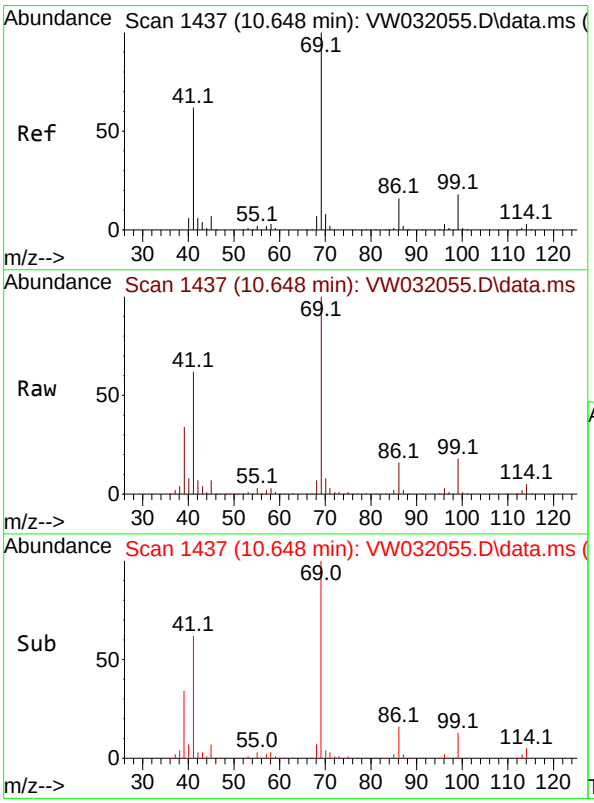
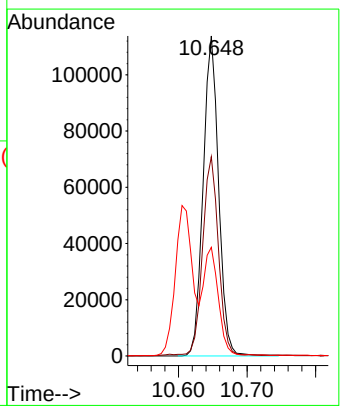
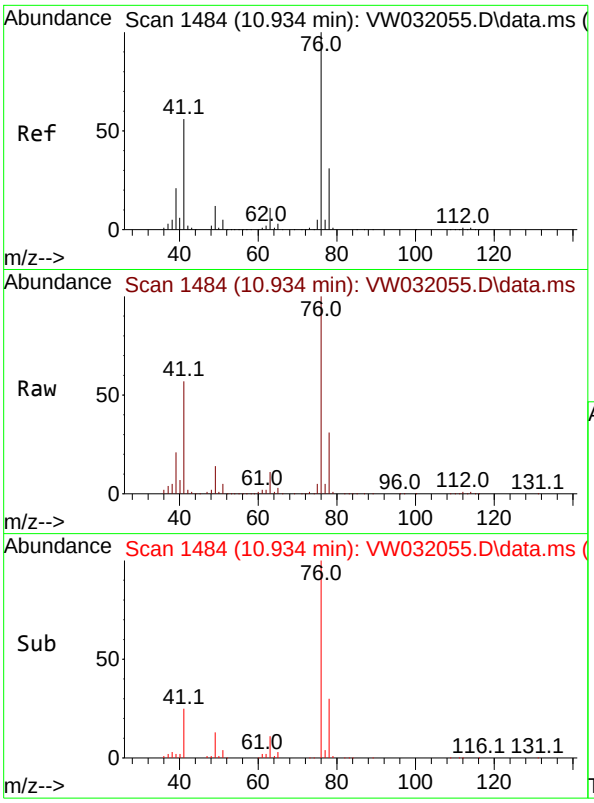



#56
Ethyl methacrylate
Concen: 56.027 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 69 Resp: 178974

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 64.0 | 51.2 | 76.8 |
| 39 | 31.7 | 25.4 | 38.0 |






#57
1,3-Dichloropropane
Concen: 52.084 ug/l
RT: 10.934 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 76 Resp: 21671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.2 | 25.8 | 38.6 |

**Instrument :**
MSVOA_W
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VSTDICCC050

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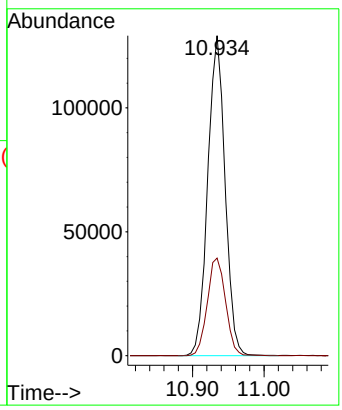
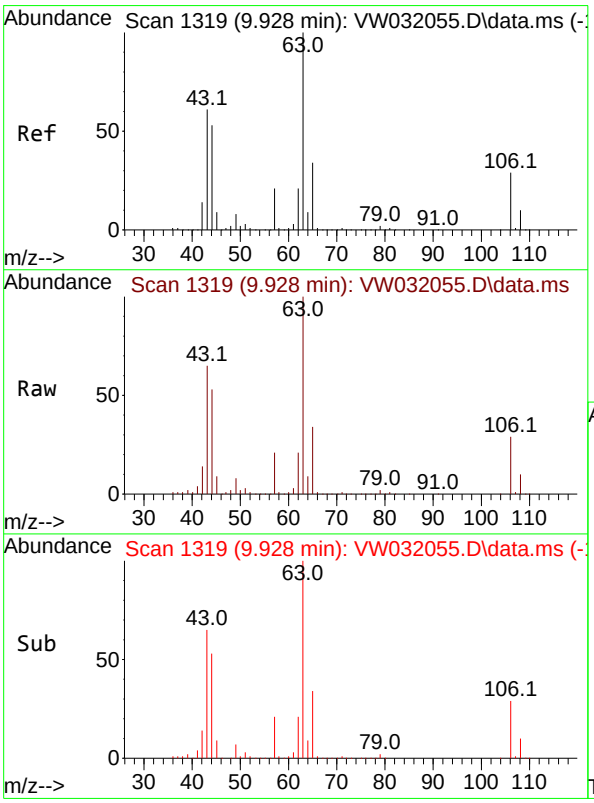
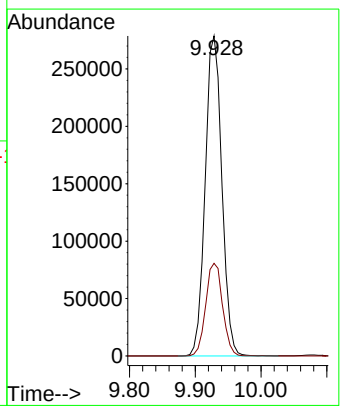


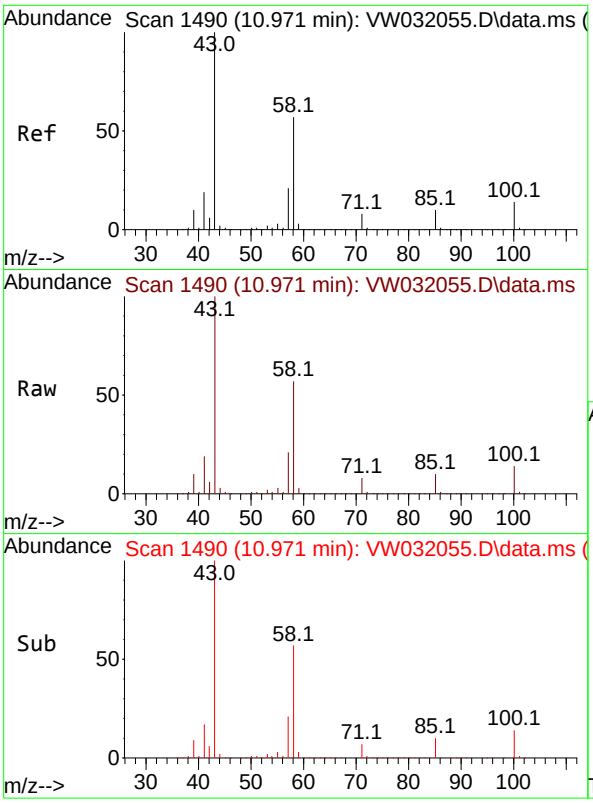




#58
2-Chloroethyl Vinyl ether
Concen: 277.613 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 63 Resp: 490522

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 29.4 | 23.5 | 35.3 |

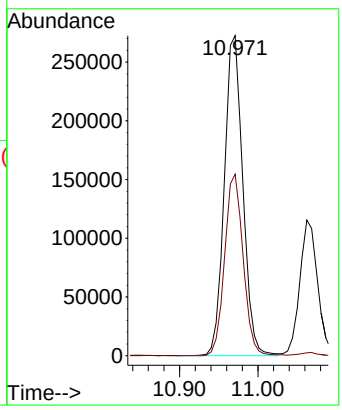





#59
2-Hexanone
Concen: 284.986 ug/l
RT: 10.971 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 43 Resp: 44742

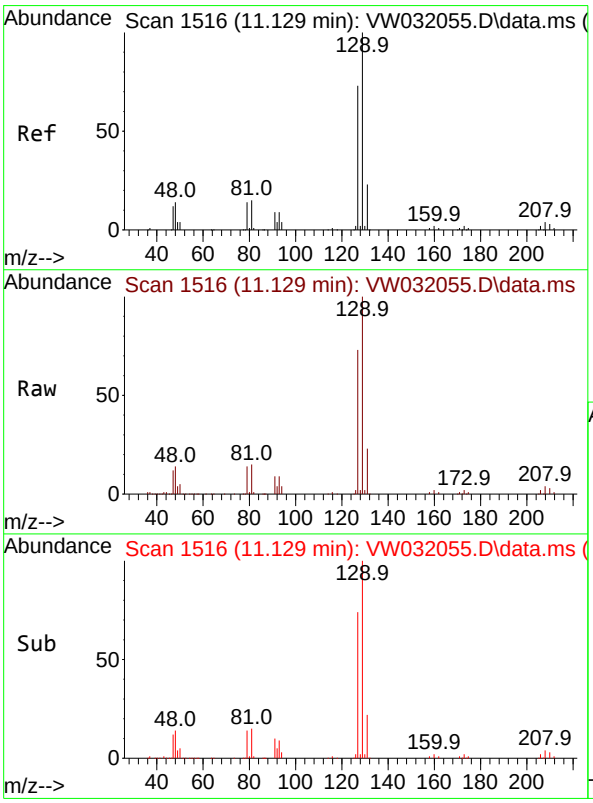
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 56.7 | 28.3 | 85.0 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

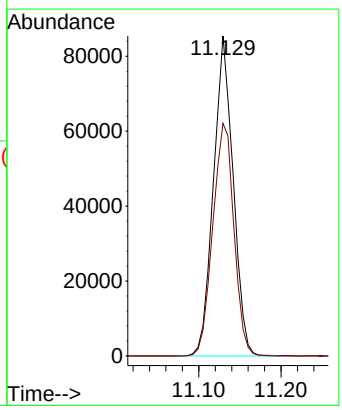
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

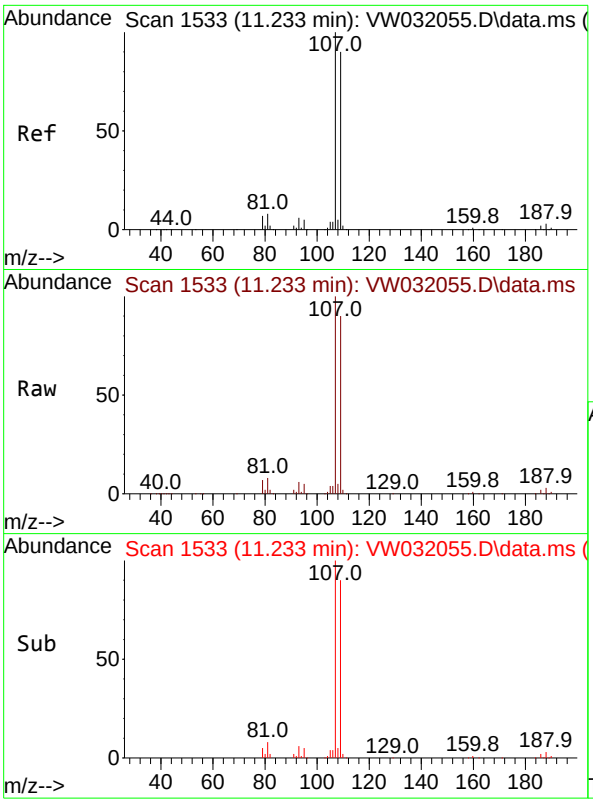



#60
Dibromochloromethane
Concen: 52.161 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:129 Resp: 142234

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.9 | 39.0 | 116.9 |

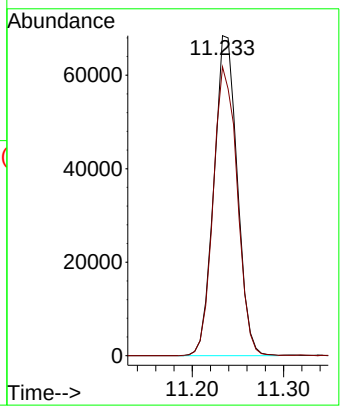





#61
1,2-Dibromoethane
Concen: 52.430 ug/l
RT: 11.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:107 Resp: 12162

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 92.8 | 74.2 | 111.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

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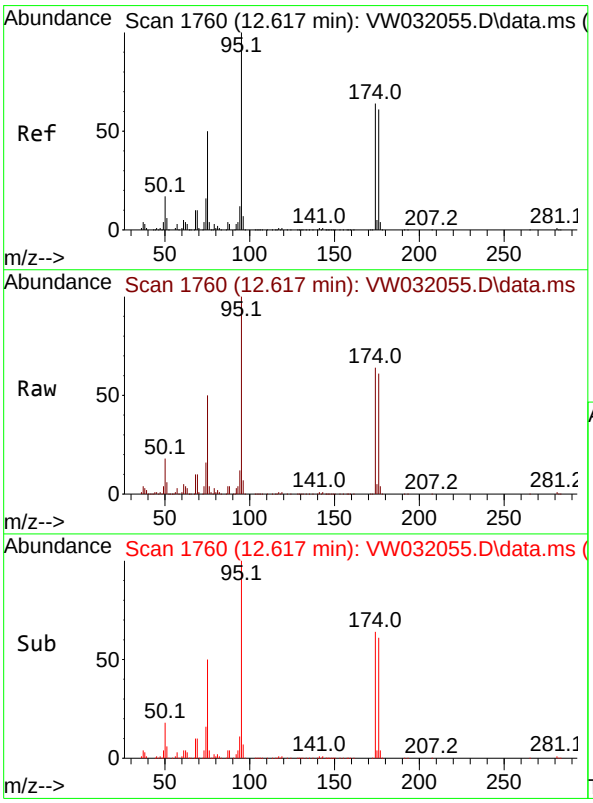
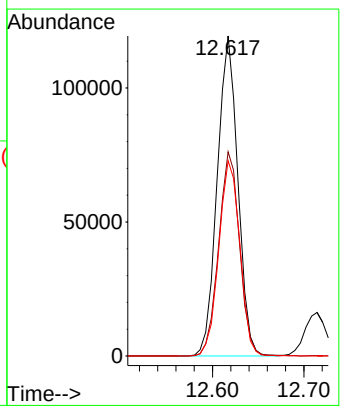
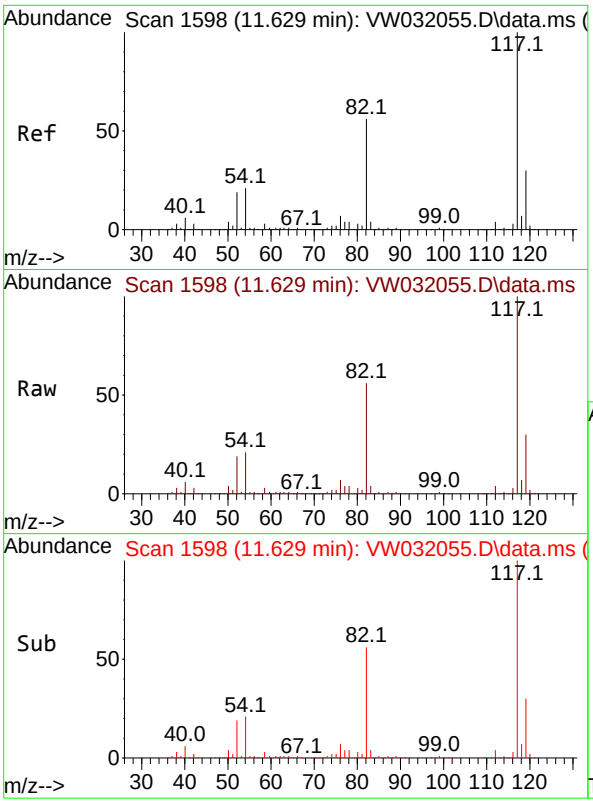



#62
4-Bromofluorobenzene
Concen: 52.274 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 95 Resp: 187331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 64.5 | 0.0 | 129.0 |
| 176 | 62.3 | 0.0 | 124.6 |

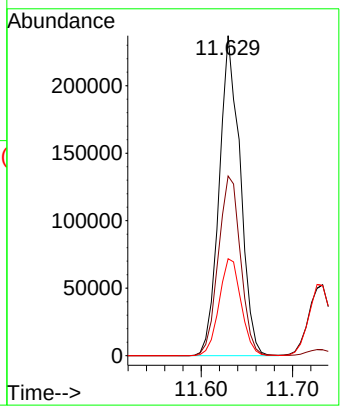





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:117 Resp: 37809

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 56.2 | 45.0 | 67.4 |
| 119 | 30.3 | 24.2 | 36.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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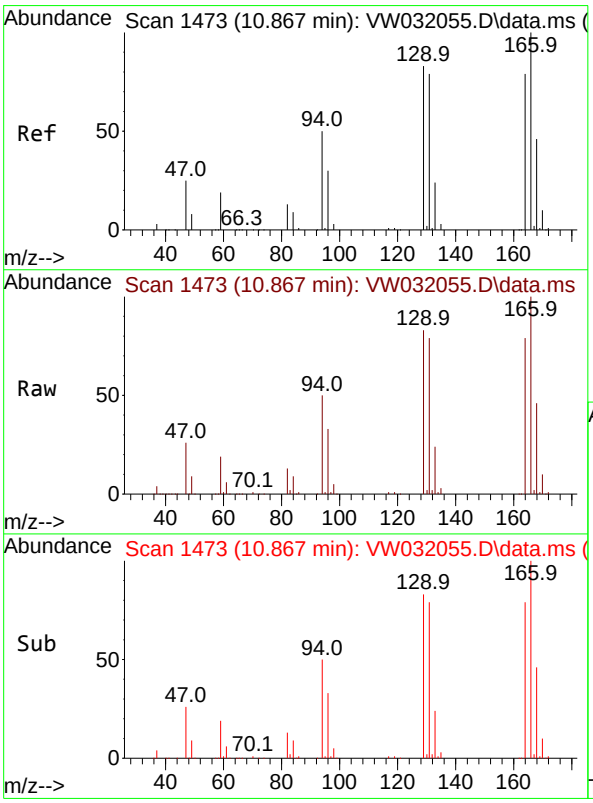
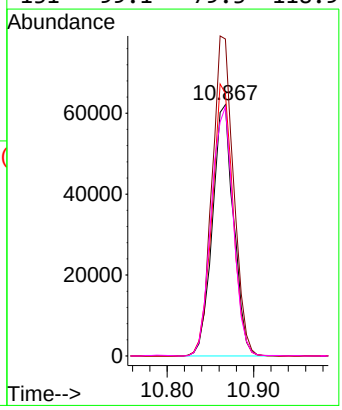
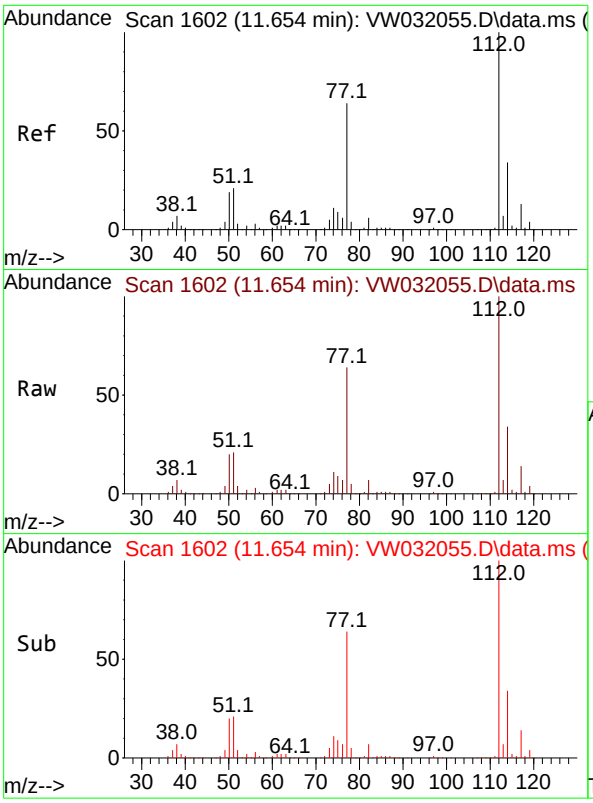



#64
Tetrachloroethene
Concen: 48.263 ug/l
RT: 10.867 min Scan# 1473
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:164 Resp: 105400

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 126.1 | 100.9 | 151.3 |
| 129 | 104.5 | 83.6 | 125.4 |
| 131 | 99.1 | 79.3 | 118.9 |

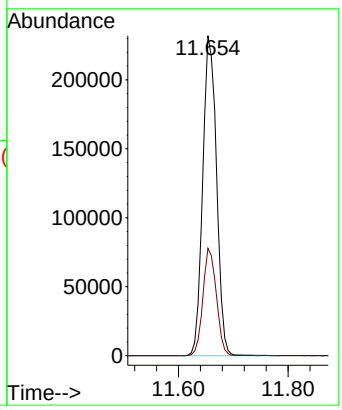





#65
Chlorobenzene
Concen: 49.082 ug/l
RT: 11.654 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:112 Resp: 40392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 33.6 | 26.9 | 40.3 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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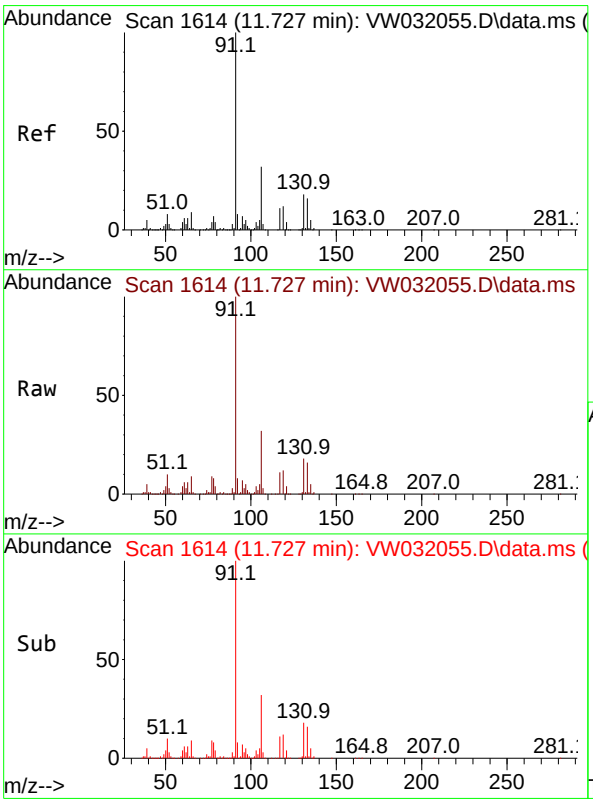
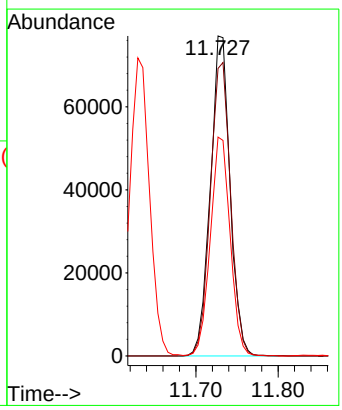
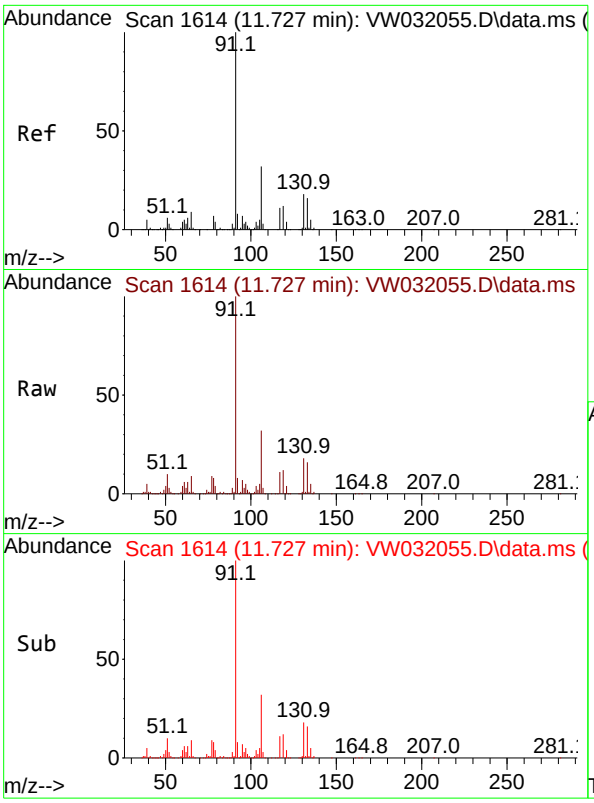



#66
1,1,1,2-Tetrachloroethane
Concen: 49.935 ug/l
RT: 11.727 min Scan# 1614
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:131 Resp: 128215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.7 | 47.3 | 142.0 |
| 119 | 69.0 | 34.5 | 103.5 |

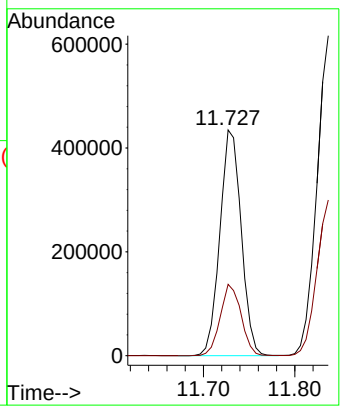





#67
Ethyl Benzene
Concen: 50.709 ug/l
RT: 11.727 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 91 Resp: 7068

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.7 | 25.4 | 38.0 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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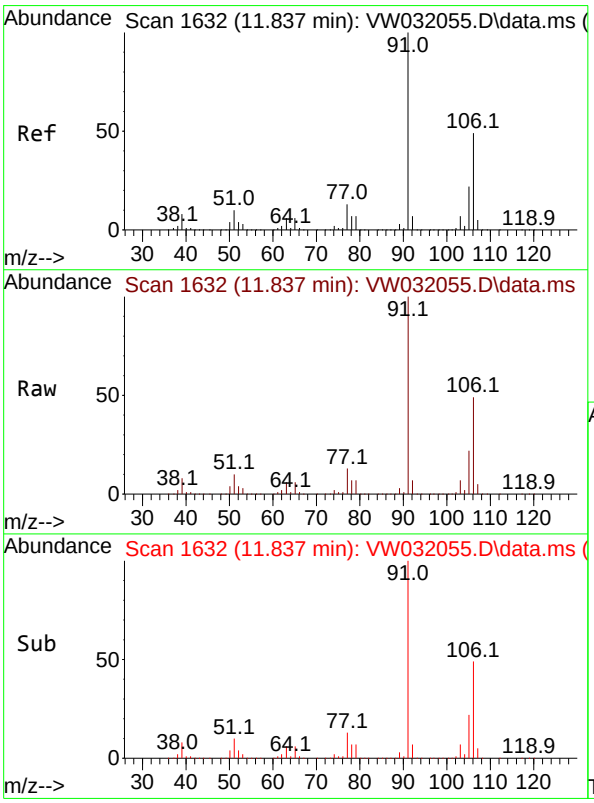
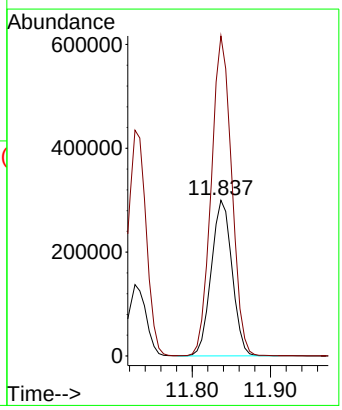
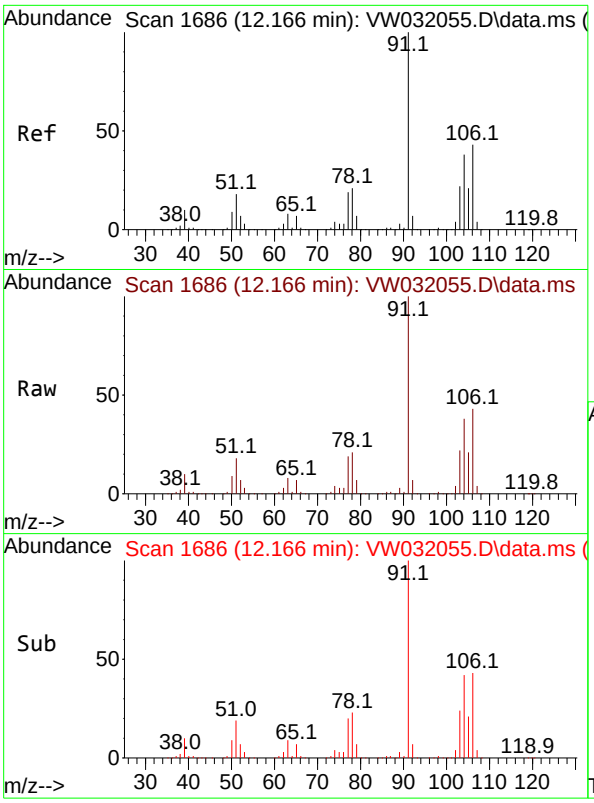



#68
m/p-Xylenes
Concen: 102.704 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:106 Resp: 552442

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 202.7 | 162.2 | 243.2 |






#69
o-Xylene
Concen: 51.812 ug/l
RT: 12.166 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:106 Resp: 25759

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 221.5 | 110.8 | 332.3 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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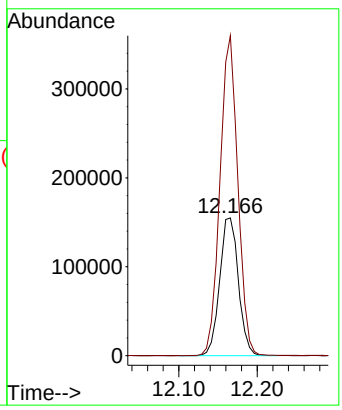
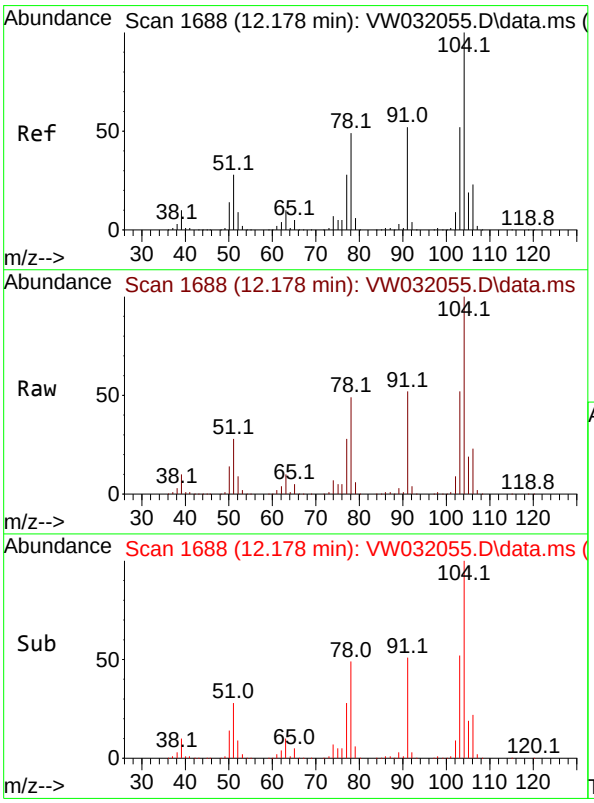
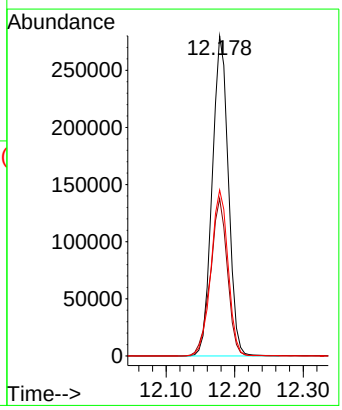


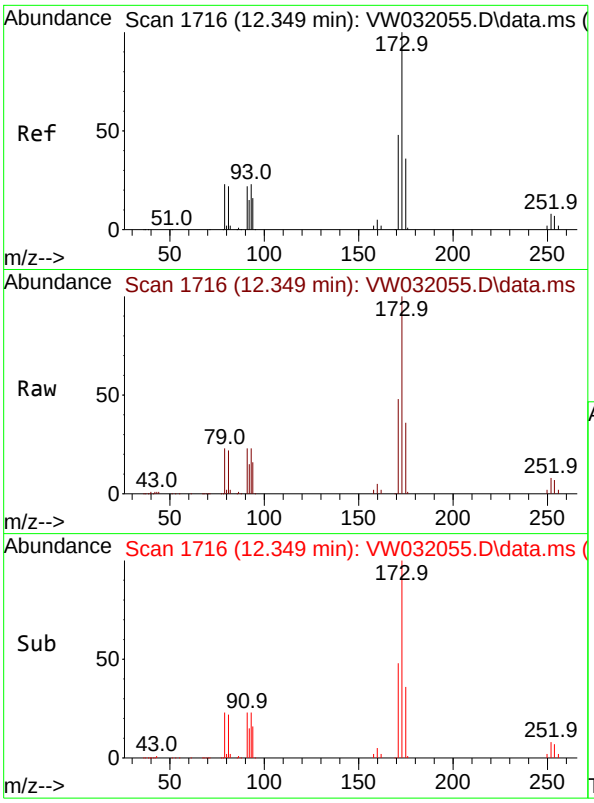




#70
Styrene
Concen: 51.858 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:104 Resp: 457949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 51.5 | 41.2 | 61.8 |
| 103 | 54.8 | 43.8 | 65.8 |

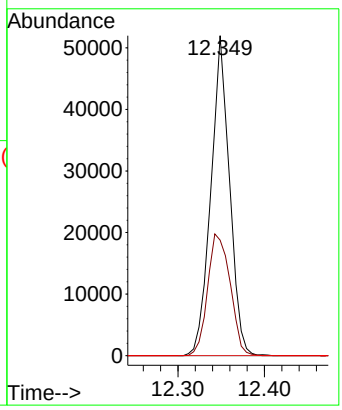





#71
Bromoform
Concen: 53.078 ug/l
RT: 12.349 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:173 Resp: 7795

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 45.8 | 22.9 | 68.7 |
| 254 | 0.0 | 0.0 | 0.0 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

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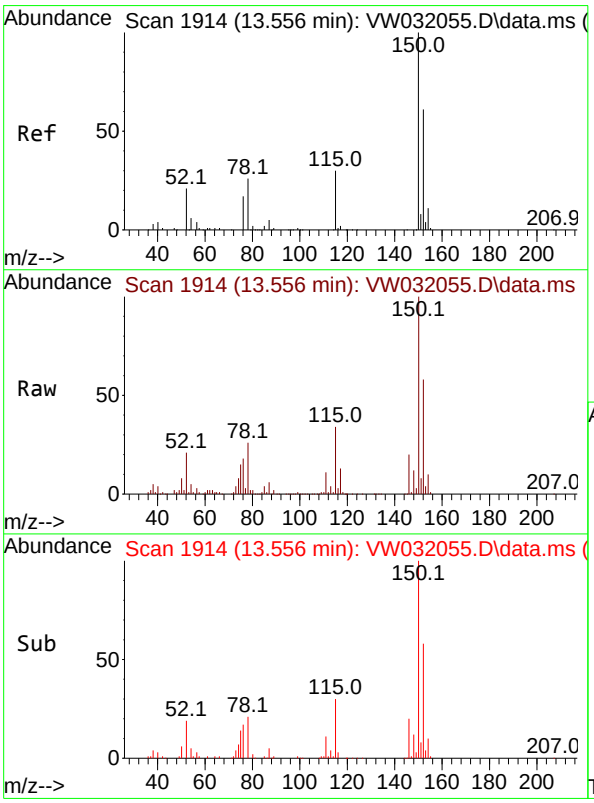
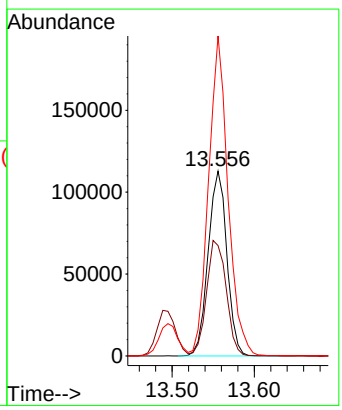
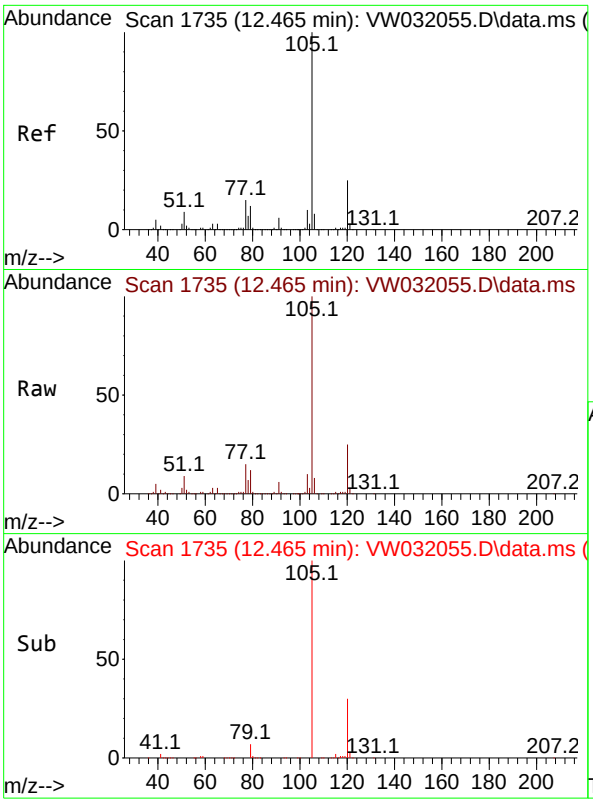



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:152 Resp: 178995

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 65.2 | 32.6 | 97.8 |
| 150 | 179.7 | 0.0 | 359.4 |

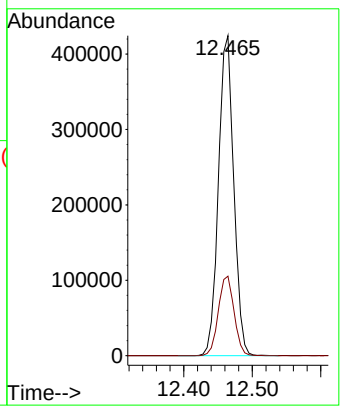





#73
Isopropylbenzene
Concen: 52.323 ug/l
RT: 12.465 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:105 Resp: 65452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.6 | 12.8 | 38.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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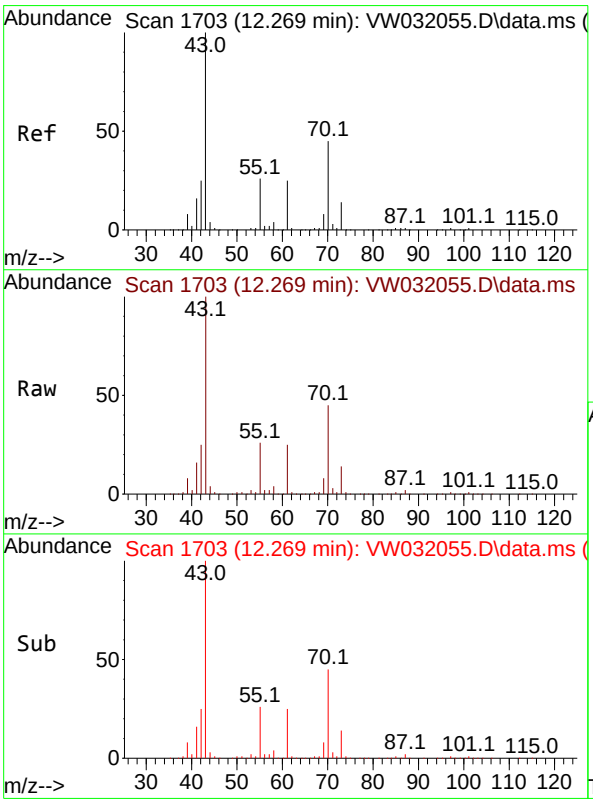
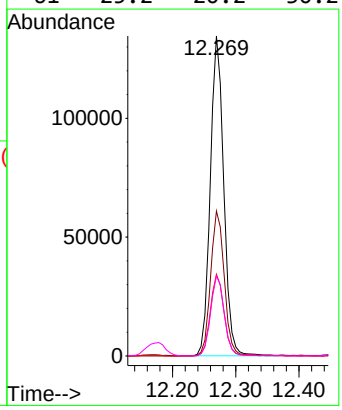
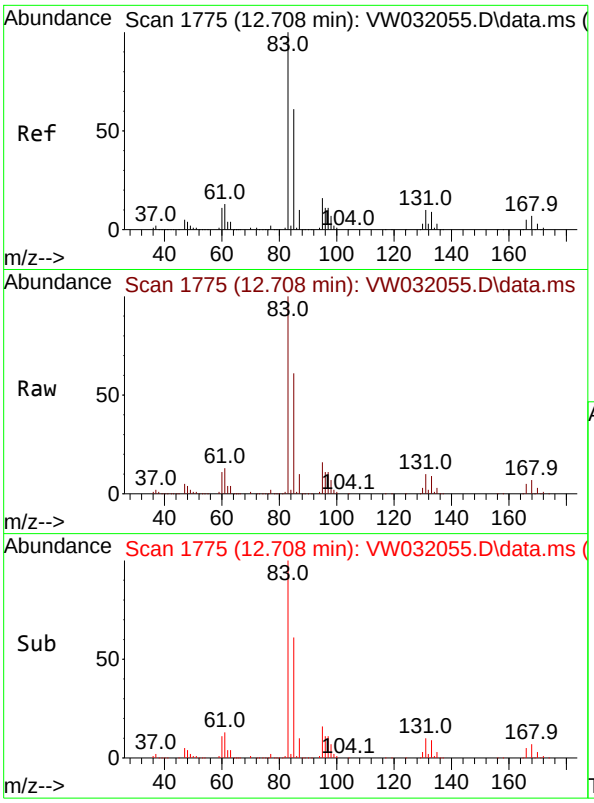



#74
N-amyl acetate
Concen: 55.520 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 43 Resp: 199256

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 46.2 | 37.0 | 55.4 |
| 55 | 26.4 | 21.1 | 31.7 |
| 61 | 25.2 | 20.2 | 30.2 |






#75
1,1,2,2-Tetrachloroethane
Concen: 52.549 ug/l
RT: 12.708 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 83 Resp: 15607

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.3 | 5.1 | 15.4 |
| 85 | 64.4 | 32.2 | 96.6 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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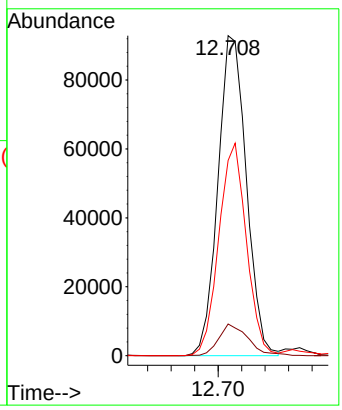
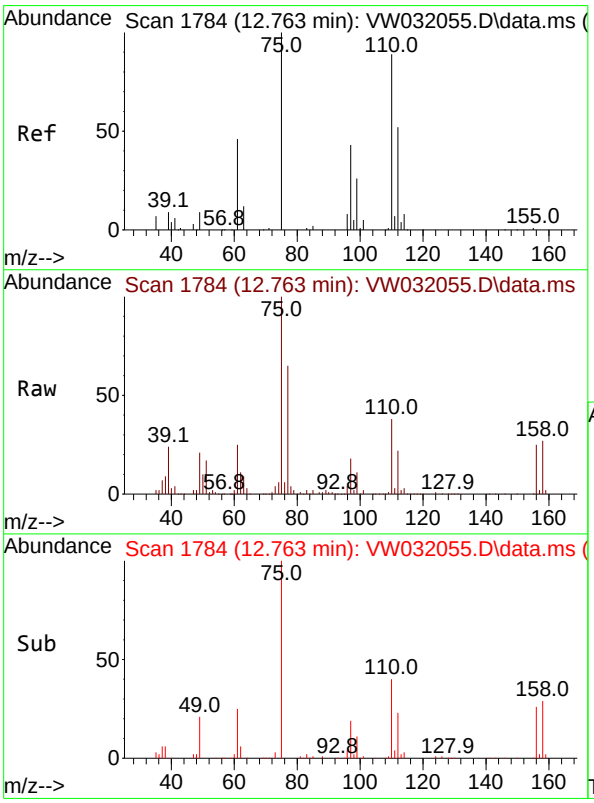
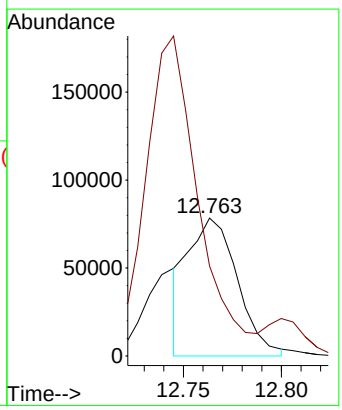


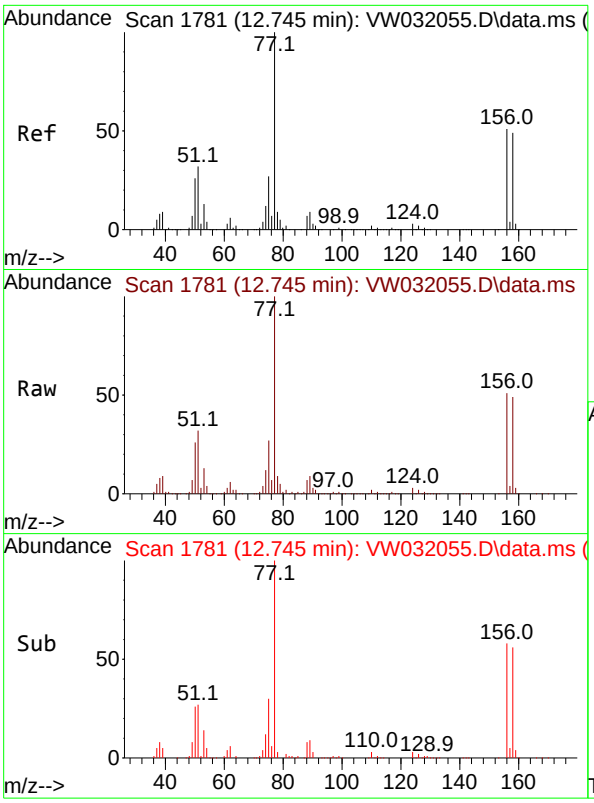




#76
1,2,3-Trichloropropane
Concen: 50.019 ug/l m
RT: 12.763 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 75 Resp: 137632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 247.0 | 123.5 | 370.5 |

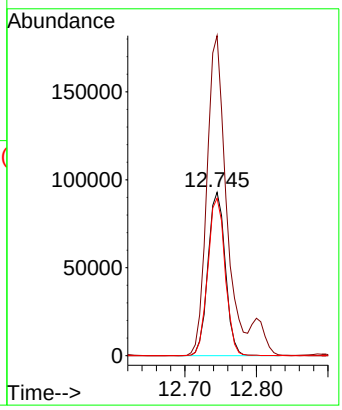





#77
Bromobenzene
Concen: 52.326 ug/l
RT: 12.745 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:156 Resp: 15633

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 217.5 | 108.7 | 326.3 |
| 158 | 96.6 | 48.3 | 144.9 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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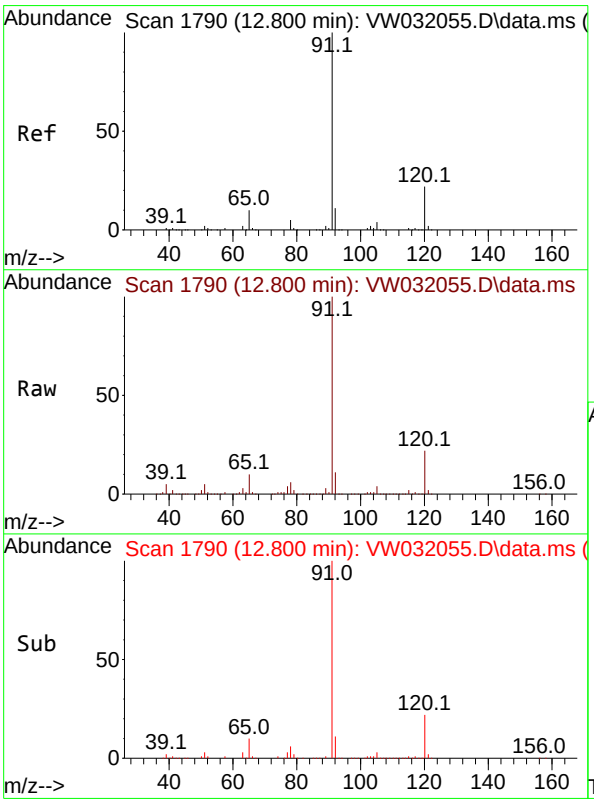
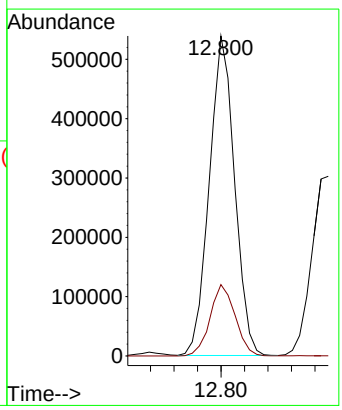
Supervised By :Semsettin Yesilyurt 08/12/2025

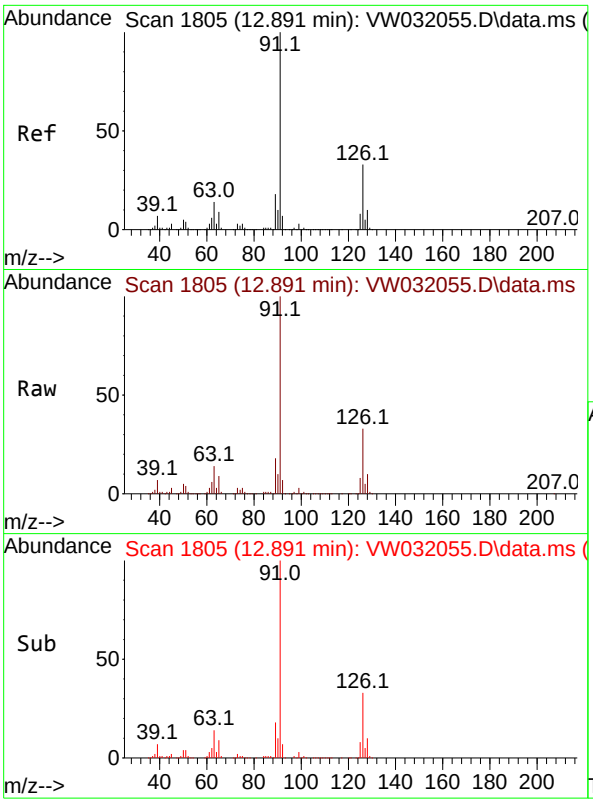



#78
n-propylbenzene
Concen: 52.304 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 91 Resp: 805515

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.2 | 11.1 | 33.3 |

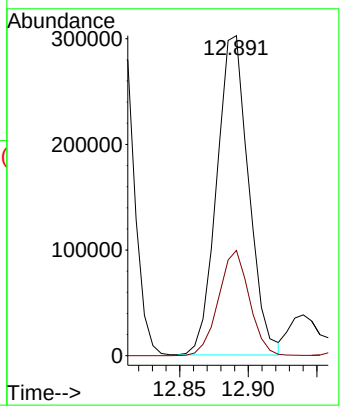





#79
2-Chlorotoluene
Concen: 51.622 ug/l
RT: 12.891 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 91 Resp: 49066

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.8 | 15.9 | 47.7 |




**Instrument :**
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VSTDICCC050

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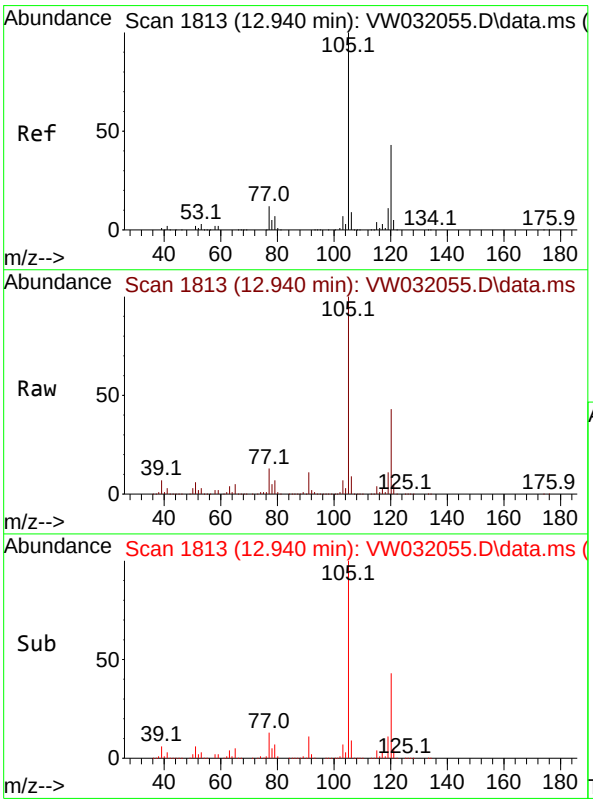
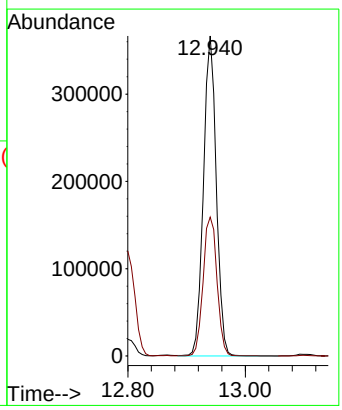
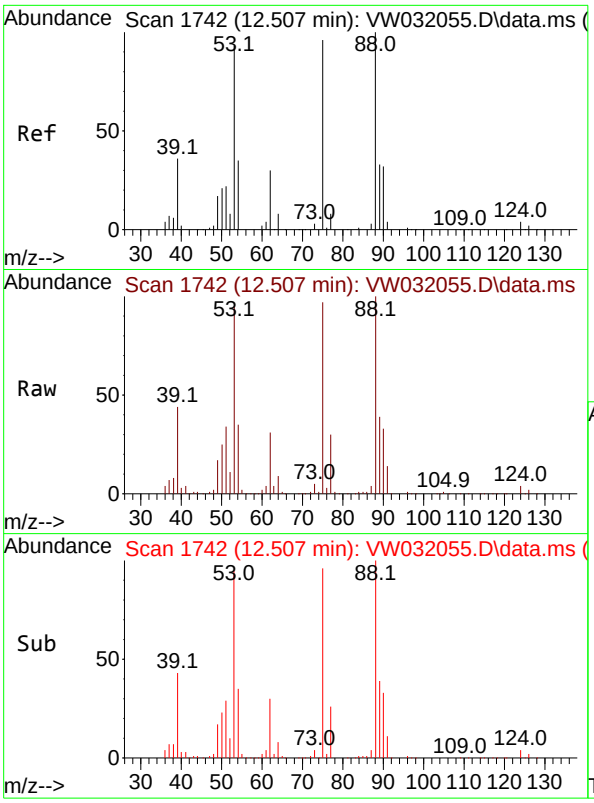



#80
1,3,5-Trimethylbenzene
Concen: 52.305 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:105 Resp: 555481

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.7 | 23.4 | 70.0 |

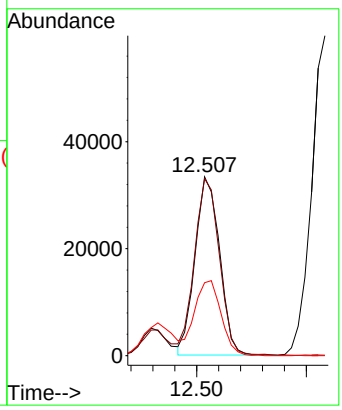





#81
trans-1,4-Dichloro-2-butene
Concen: 55.213 ug/l
RT: 12.507 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 75 Resp: 5181

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 101.3 | 81.0 | 121.6 |
| 89 | 46.6 | 37.3 | 55.9 |




**Instrument :**
MSVOA_W
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VSTDICCC050

**Manual Integrations**
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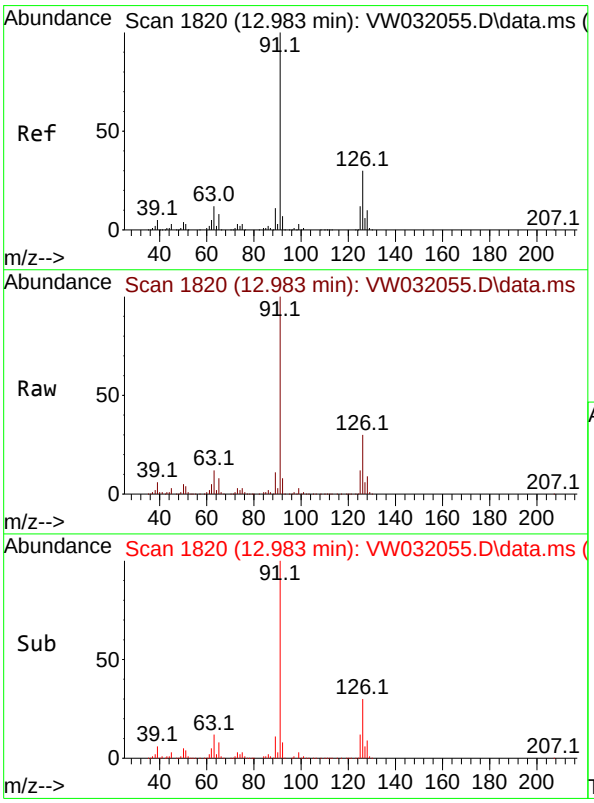
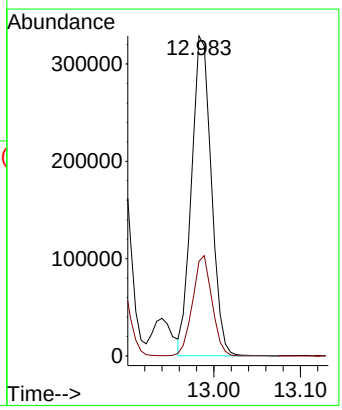
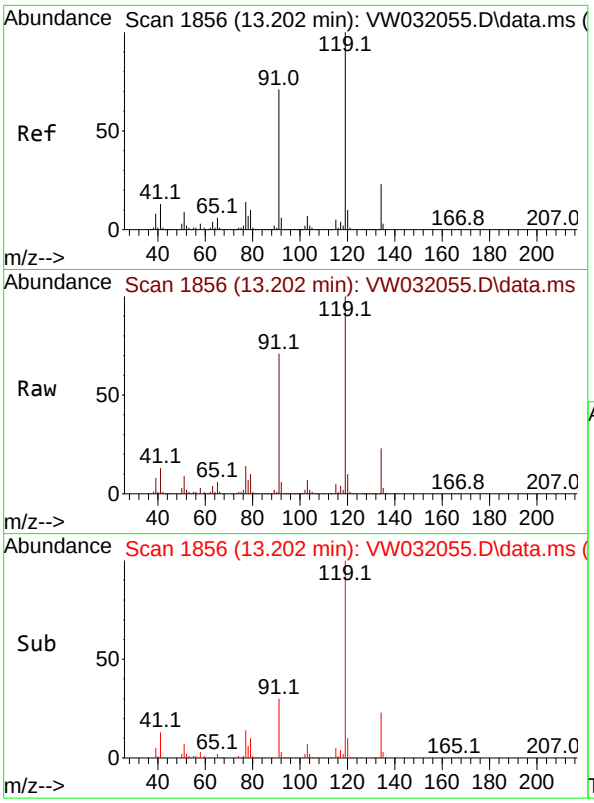



#82
4-Chlorotoluene
Concen: 51.488 ug/l
RT: 12.983 min Scan# 1820
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 91 Resp: 519957

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.0 | 15.5 | 46.5 |

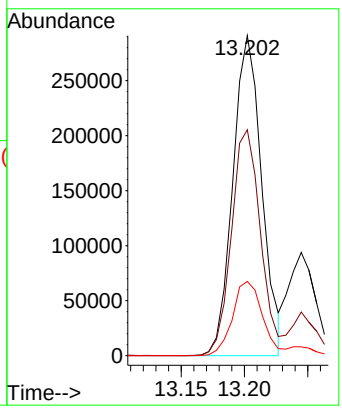





#83
tert-Butylbenzene
Concen: 52.460 ug/l
RT: 13.202 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:119 Resp: 46237

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 70.6 | 35.3 | 105.9 |
| 134 | 24.2 | 12.1 | 36.3 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

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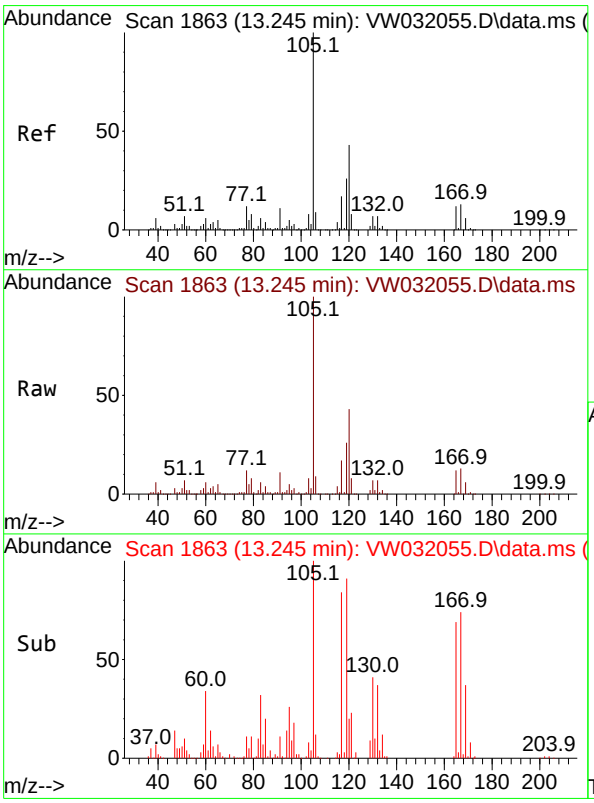
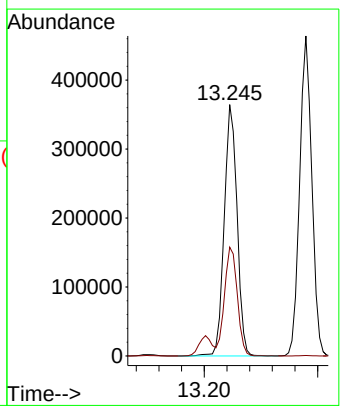
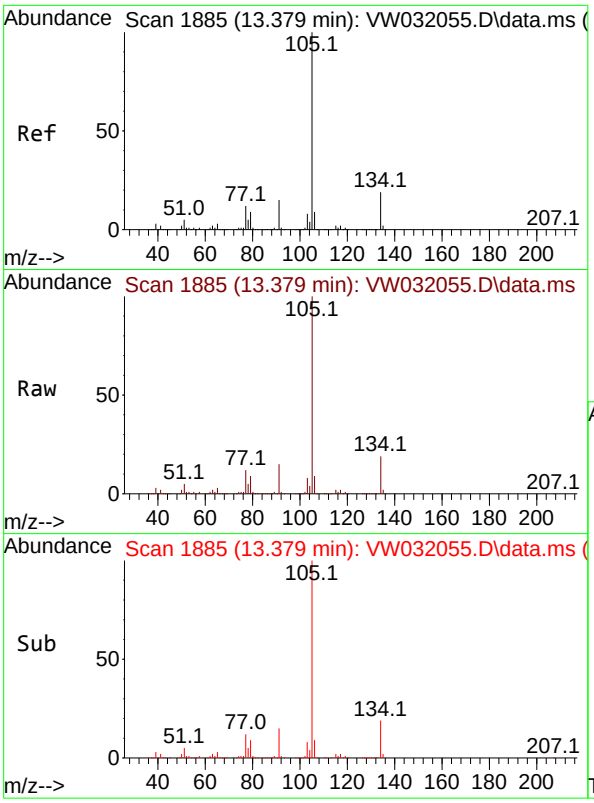



#84
1,2,4-Trimethylbenzene
Concen: 52.950 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:105 Resp: 572429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.2 | 21.6 | 64.8 |

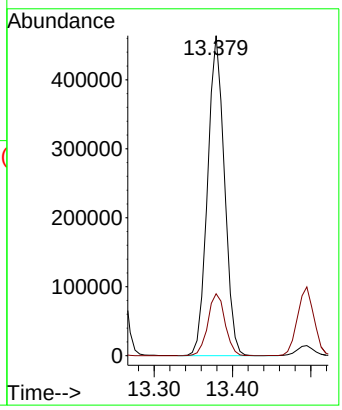





#85
sec-Butylbenzene
Concen: 51.829 ug/l
RT: 13.379 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:105 Resp: 69064

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.8 | 9.9 | 29.7 |




**Instrument :**
MSVOA_W
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VSTDICCC050

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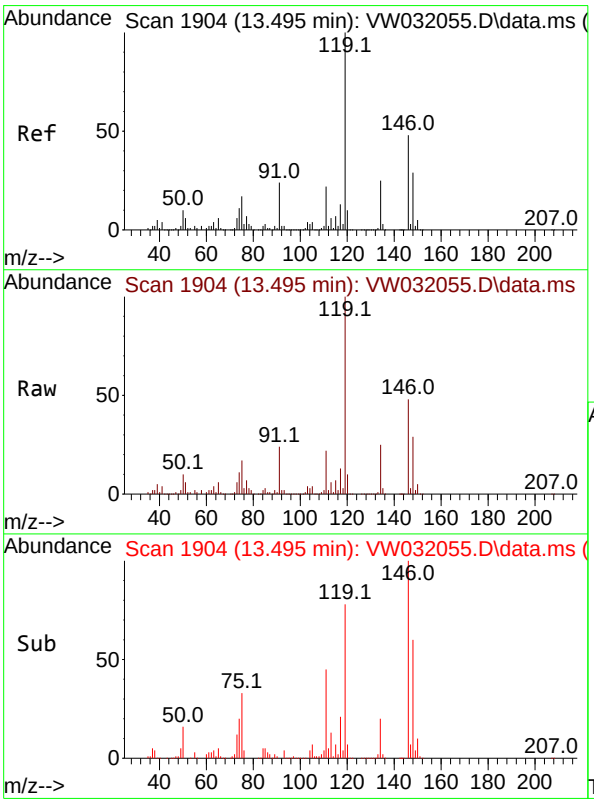
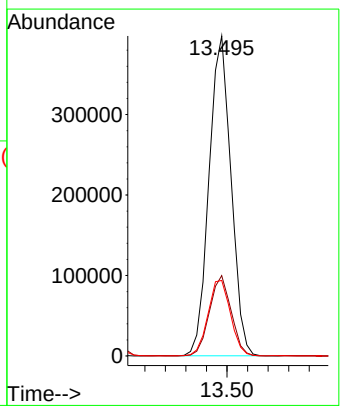
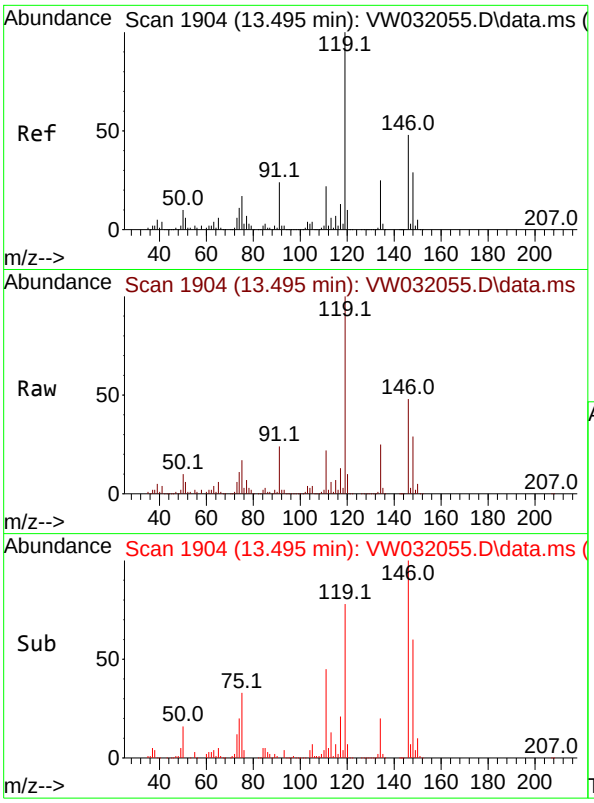



#86
p-Isopropyltoluene
Concen: 53.089 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:119 Resp: 589769

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 24.7 | 12.4 | 37.0 |
| 91 | 24.2 | 12.1 | 36.3 |

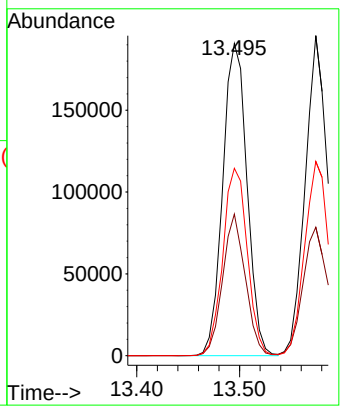





#87
1,3-Dichlorobenzene
Concen: 52.754 ug/l
RT: 13.495 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:146 Resp: 31362

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.4 | 21.2 | 63.6 |
| 148 | 60.5 | 30.3 | 90.8 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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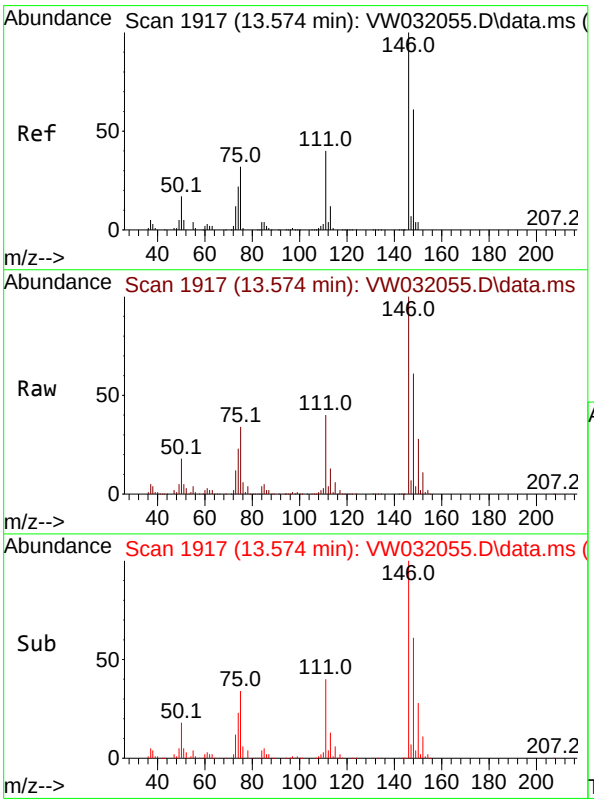
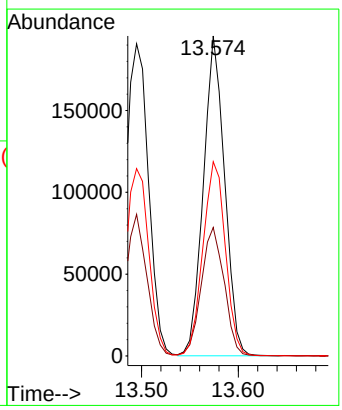
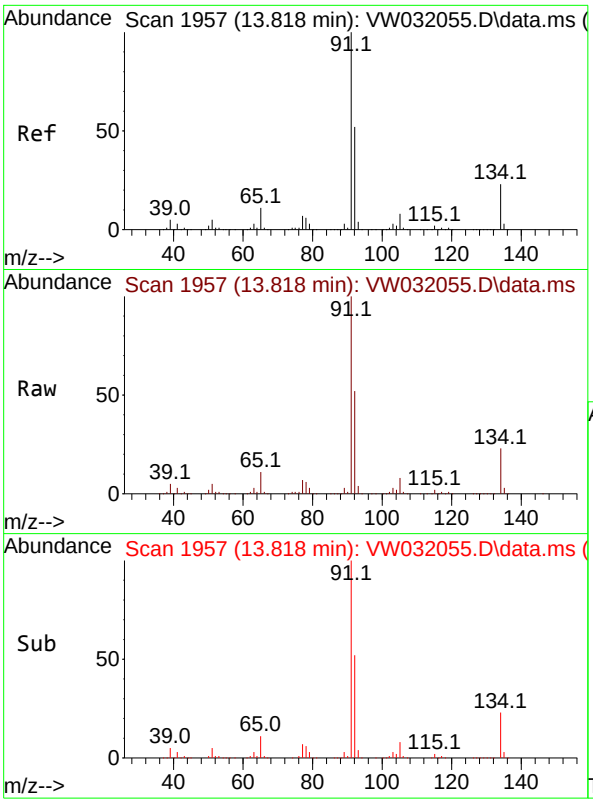



#88
1,4-Dichlorobenzene
Concen: 49.844 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:146 Resp: 299453

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.1 | 21.6 | 64.6 |
| 148 | 64.1 | 32.0 | 96.2 |

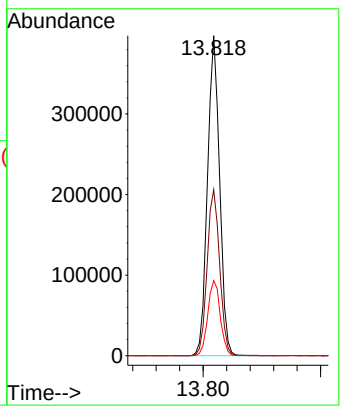





#89
n-Butylbenzene
Concen: 52.756 ug/l
RT: 13.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 91 Resp: 56936

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.4 | 26.7 | 80.1 |
| 134 | 24.1 | 12.0 | 36.1 |




**Instrument :**
MSVOA_W
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VSTDICCC050

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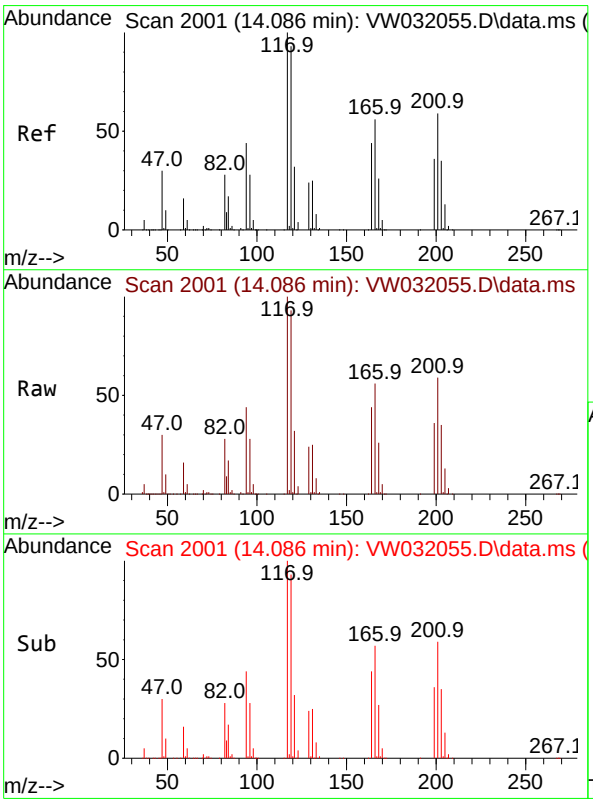
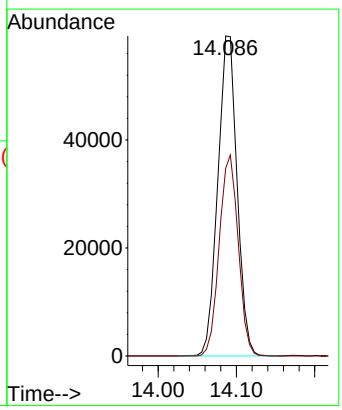
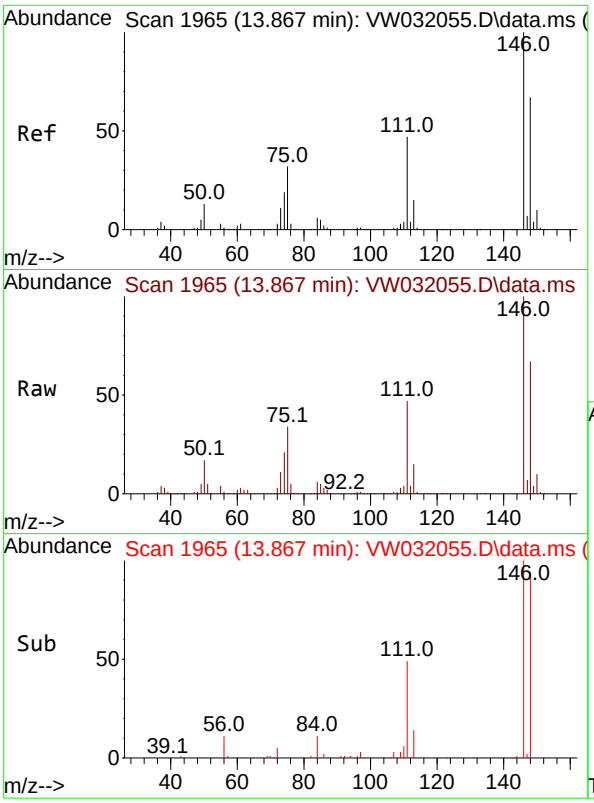



#90
Hexachloroethane
Concen: 49.942 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:117 Resp: 101464

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 61.7 | 30.9 | 92.5 |

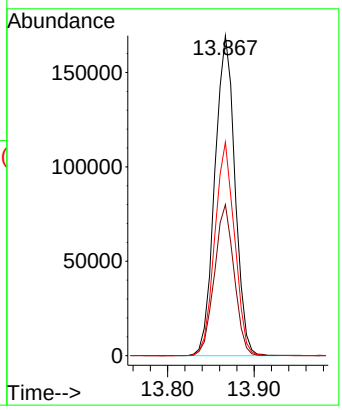





#91
1,2-Dichlorobenzene
Concen: 50.801 ug/l
RT: 13.867 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:146 Resp: 27358

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 46.2 | 23.1 | 69.3 |
| 148 | 65.7 | 32.9 | 98.6 |

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MSVOA_W
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VSTDICCC050

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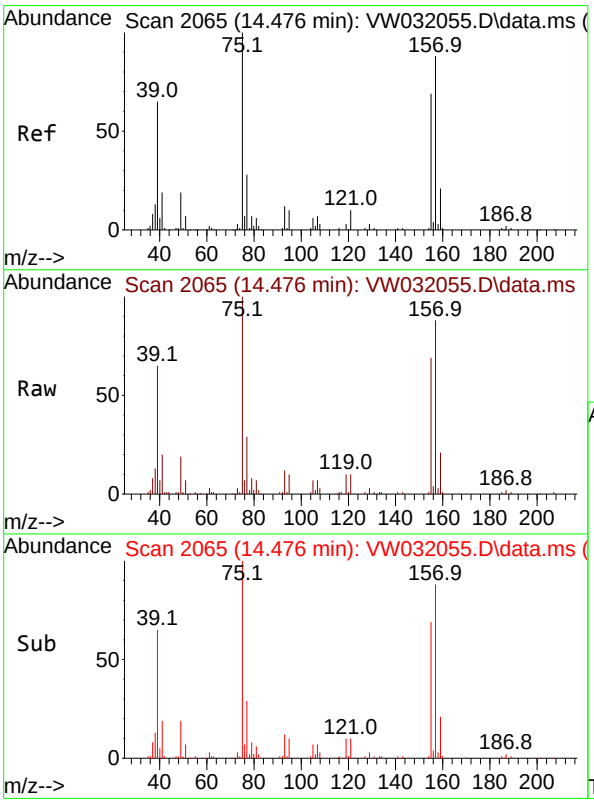
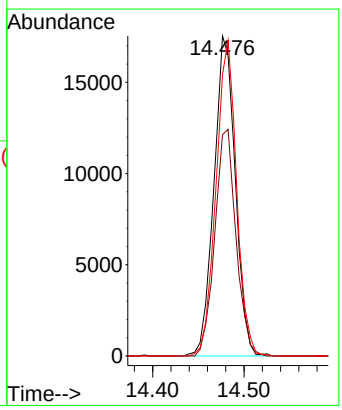
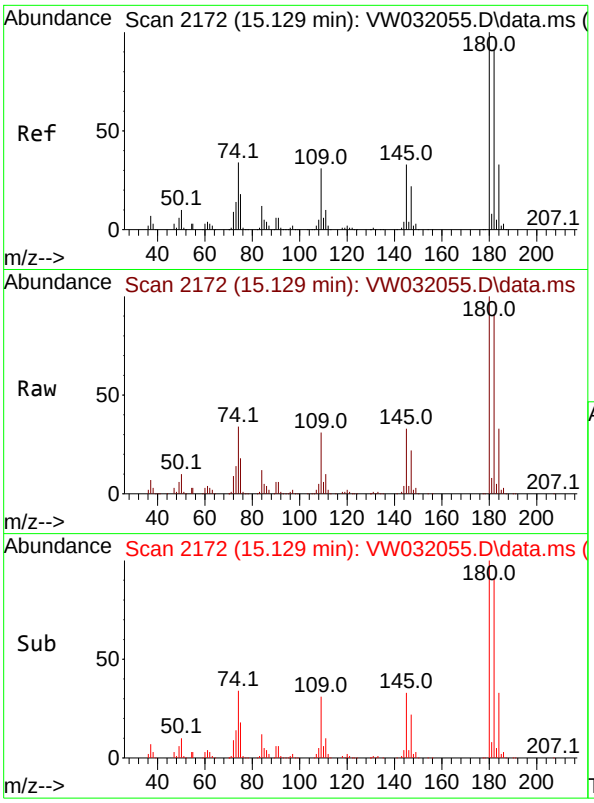



#92
1,2-Dibromo-3-Chloropropane
Concen: 53.857 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 75 Resp: 28437

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 70.4 | 35.2 | 105.6 |
| 157 | 95.1 | 47.5 | 142.6 |

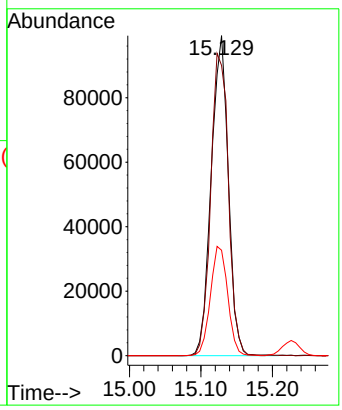





#93
1,2,4-Trichlorobenzene
Concen: 51.132 ug/l
RT: 15.129 min Scan# 2
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:180 Resp: 16472

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 98.0 | 49.0 | 147.0 |
| 145 | 34.6 | 17.3 | 51.9 |

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**ClientSampleId :**
VSTDICCC050

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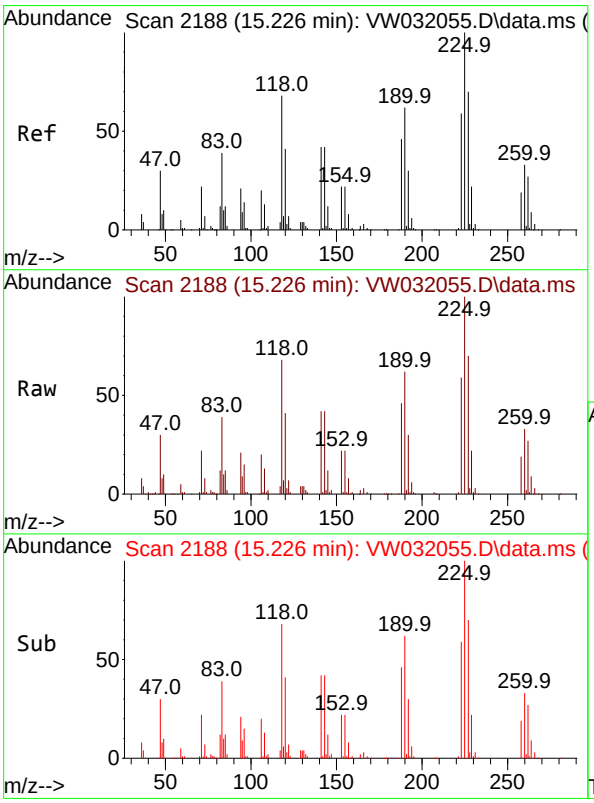
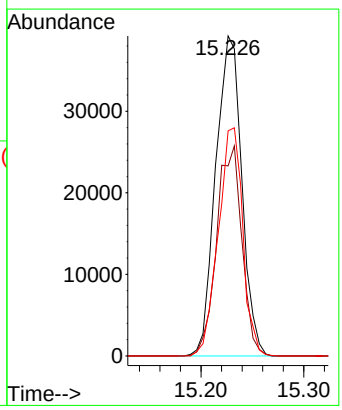
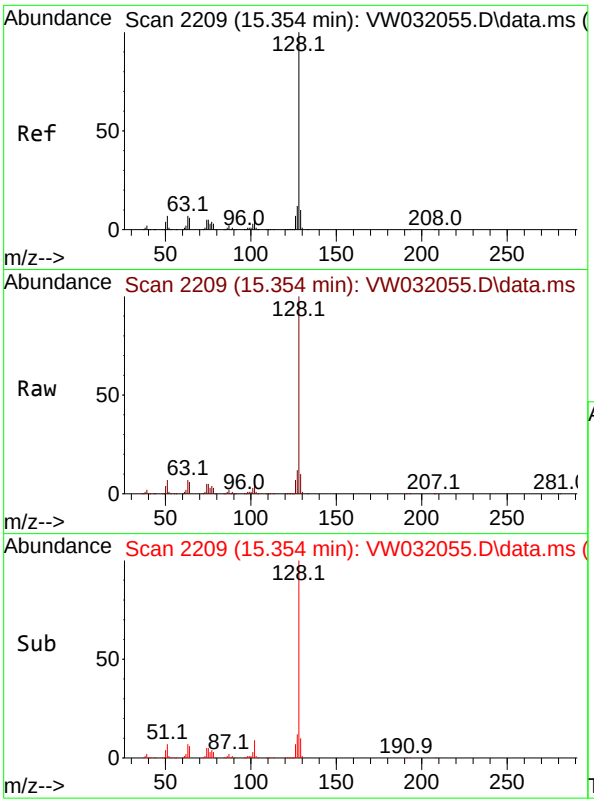



#94
Hexachlorobutadiene
Concen: 47.902 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:225 Resp: 68983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.5 | 31.8 | 95.3 |
| 227 | 67.0 | 33.5 | 100.5 |

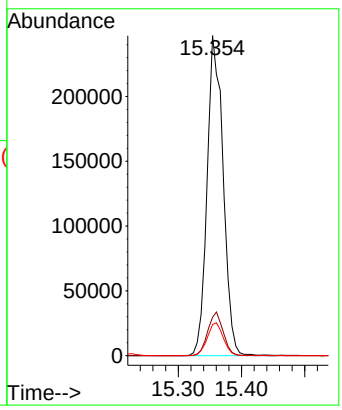





#95
Naphthalene
Concen: 55.099 ug/l
RT: 15.354 min Scan# 2
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:128 Resp: 43494

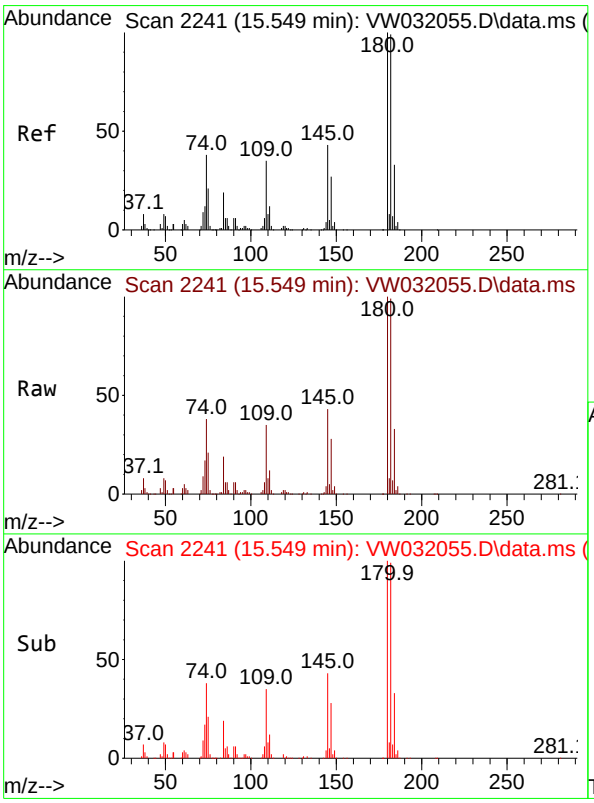
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.1 | 10.5 | 15.7 |
| 129 | 10.3 | 8.2 | 12.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

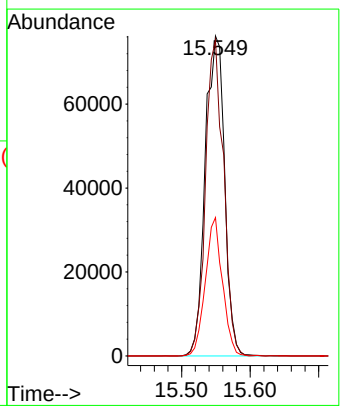
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025




#96
1,2,3-Trichlorobenzene
Concen: 51.022 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:180 Resp: 149556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 92.0 | 46.0 | 138.0 |
| 145 | 38.4 | 19.2 | 57.6 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032056.D
Acq On : 11 Aug 2025 10:46
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 12 03:39:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda

08/12/2025
Supervised By :Semsettin Yesilyurt

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.965 | 168 | 221384 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.849 | 114 | 424901 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.629 | 117 | 387705 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.556 | 152 | 180763 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.313 | 65 | 315411 | 98.509 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 63 - 155 | | Recovery = 197.020%# | | | |
| 35) Dibromofluoromethane | 7.898 | 113 | 266117 | 96.945 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 70 - 134 | | Recovery = 193.900%# | | | |
| 50) Toluene-d8 | 10.325 | 98 | 1005940 | 99.078 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 123 | | Recovery = 198.160%# | | | |
| 62) 4-Bromofluorobenzene | 12.617 | 95 | 372416 | 99.536 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 17 - 146 | | Recovery = 199.080%# | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.040 | 85 | 140330 | 88.627 | ug/l | 100 |
| 3) Chloromethane | 2.253 | 50 | 200261 | 93.894 | ug/l | 99 |
| 4) Vinyl Chloride | 2.405 | 62 | 239040 | 92.654 | ug/l | 94 |
| 5) Bromomethane | 2.820 | 94 | 182687 | 94.386 | ug/l | 96 |
| 6) Chloroethane | 2.966 | 64 | 164961 | 96.628 | ug/l | 98 |
| 7) Trichlorofluoromethane | 3.295 | 101 | 182663 | 88.382 | ug/l | 96 |
| 8) Diethyl Ether | 3.716 | 74 | 164632 | 97.227 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 4.100 | 101 | 224293 | 91.988 | ug/l | 100 |
| 10) Methyl Iodide | 4.301 | 142 | 336162 | 97.237 | ug/l | 99 |
| 11) Tert butyl alcohol | 5.216 | 59 | 99671 | 480.735 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 4.070 | 96 | 251341 | 93.615 | ug/l | 92 |
| 13) Acrolein | 3.923 | 56 | 148403 | 449.230 | ug/l | 100 |
| 14) Allyl chloride | 4.698 | 41 | 385062 | 98.543 | ug/l | 99 |
| 15) Acrylonitrile | 5.393 | 53 | 388290 | 481.445 | ug/l | 99 |
| 16) Acetone | 4.155 | 43 | 328664 | 443.358 | ug/l | 100 |
| 17) Carbon Disulfide | 4.417 | 76 | 693616 | 96.248 | ug/l | 97 |
| 18) Methyl Acetate | 4.704 | 43 | 218695 | 93.230 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 5.460 | 73 | 473924 | 100.184 | ug/l | 99 |
| 20) Methylene Chloride | 4.954 | 84 | 285049 | 83.165 | ug/l | 98 |
| 21) trans-1,2-Dichloroethene | 5.454 | 96 | 281466 | 98.787 | ug/l | 98 |
| 22) Diisopropyl ether | 6.332 | 45 | 829703 | 100.722 | ug/l | 98 |
| 23) Vinyl Acetate | 6.277 | 43 | 2803250 | 518.312 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 6.240 | 63 | 519360 | 98.678 | ug/l | 99 |
| 25) 2-Butanone | 7.191 | 43 | 515739 | 489.508 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 7.185 | 77 | 249271 | 94.405 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 7.185 | 96 | 343091 | 103.016 | ug/l | 97 |
| 28) Bromochloromethane | 7.526 | 49 | 230727 | 96.333 | ug/l | 100 |
| 29) Tetrahydrofuran | 7.551 | 42 | 338578 | 487.284 | ug/l | 99 |
| 30) Chloroform | 7.685 | 83 | 550232 | 98.613 | ug/l | 96 |
| 31) Cyclohexane | 7.965 | 56 | 416558 | 91.292 | ug/l | 96 |
| 32) 1,1,1-Trichloroethane | 7.880 | 97 | 384671 | 94.913 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 8.093 | 75 | 373215 | 96.444 | ug/l | 99 |
| 37) Ethyl Acetate | 7.270 | 43 | 221929 | 97.375 | ug/l | 99 |
| 38) Carbon Tetrachloride | 8.081 | 117 | 362373 | 97.035 | ug/l | 91 |
| 39) Methylcyclohexane | 9.337 | 83 | 459134 | 97.342 | ug/l | 97 |
| 40) Benzene | 8.331 | 78 | 1160107 | 96.444 | ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032056.D
Acq On : 11 Aug 2025 10:46
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 12 03:39:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda

08/12/2025
Supervised By :Semsettin Yesilyurt

08/12/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.496 | 41 | 135773 | 105.048 | ug/l | | 97 |
| 42) 1,2-Dichloroethane | 8.410 | 62 | 364674 | 94.743 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.435 | 43 | 413211 | 98.543 | ug/l | | 99 |
| 44) Trichloroethene | 9.093 | 130 | 270995 | 94.602 | ug/l | | 99 |
| 45) 1,2-Dichloropropane | 9.374 | 63 | 278124 | 95.707 | ug/l | | 99 |
| 46) Dibromomethane | 9.465 | 93 | 177966 | 94.888 | ug/l | | 98 |
| 47) Bromodichloromethane | 9.648 | 83 | 422958 | 97.867 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.441 | 41 | 202632 | 100.098 | ug/l | | 98 |
| 49) 1,4-Dioxane | 9.459 | 88 | 46383 | 1912.696 | ug/l | | 99 |
| 51) 4-Methyl-2-Pentanone | 10.209 | 43 | 1127080 | 476.209 | ug/l | | 99 |
| 52) Toluene | 10.386 | 92 | 753592 | 99.464 | ug/l | | 96 |
| 53) t-1,3-Dichloropropene | 10.605 | 75 | 410734 | 101.442 | ug/l | | 95 |
| 54) cis-1,3-Dichloropropene | 10.075 | 75 | 468972 | 102.096 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 10.788 | 97 | 239507 | 96.099 | ug/l | | 97 |
| 56) Ethyl methacrylate | 10.642 | 69 | 348446 | 104.477 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.934 | 76 | 412949 | 95.056 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.928 | 63 | 948129 | 513.956 | ug/l | | 99 |
| 59) 2-Hexanone | 10.965 | 43 | 793810 | 484.283 | ug/l | | 99 |
| 60) Dibromochloromethane | 11.129 | 129 | 282060 | 99.074 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.233 | 107 | 240542 | 99.317 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.867 | 164 | 213297 | 95.247 | ug/l | | 94 |
| 65) Chlorobenzene | 11.654 | 112 | 808609 | 95.819 | ug/l | | 96 |
| 66) 1,1,1,2-Tetrachloroethane | 11.727 | 131 | 253284 | 96.197 | ug/l | | 97 |
| 67) Ethyl Benzene | 11.727 | 91 | 1418619 | 99.243 | ug/l | | 96 |
| 68) m/p-Xylenes | 11.837 | 106 | 1089143 | 197.459 | ug/l | | 97 |
| 69) o-Xylene | 12.166 | 106 | 523329 | 102.652 | ug/l | | 97 |
| 70) Styrene | 12.178 | 104 | 916019 | 101.158 | ug/l | | 100 |
| 71) Bromoform | 12.349 | 173 | 145781 | 96.794 | ug/l | # | 92 |
| 73) Isopropylbenzene | 12.458 | 105 | 1299533 | 102.870 | ug/l | | 100 |
| 74) N-amyl acetate | 12.269 | 43 | 378722 | 104.494 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.708 | 83 | 286977 | 95.677 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.763 | 75 | 208848m | 75.158 | ug/l | | |
| 77) Bromobenzene | 12.745 | 156 | 311049 | 103.091 | ug/l | | 96 |
| 78) n-propylbenzene | 12.800 | 91 | 1589147 | 102.177 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.891 | 91 | 974324 | 101.505 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.940 | 105 | 1092987 | 101.912 | ug/l | | 98 |
| 81) trans-1,4-Dichloro-2-b... | 12.507 | 75 | 98906 | 104.370 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 12.983 | 91 | 1013836 | 99.412 | ug/l | | 99 |
| 83) tert-Butylbenzene | 13.202 | 119 | 922044 | 103.591 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.245 | 105 | 1089327 | 99.778 | ug/l | | 96 |
| 85) sec-Butylbenzene | 13.379 | 105 | 1372324 | 101.978 | ug/l | | 98 |
| 86) p-Isopropyltoluene | 13.495 | 119 | 1128935 | 100.630 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.495 | 146 | 572145 | 95.298 | ug/l | | 96 |
| 88) 1,4-Dichlorobenzene | 13.574 | 146 | 587417 | 96.819 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.818 | 91 | 1103362 | 101.235 | ug/l | | 99 |
| 90) Hexachloroethane | 14.086 | 117 | 204823 | 99.832 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 13.867 | 146 | 524204 | 96.387 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.476 | 75 | 50993 | 95.632 | ug/l | | 97 |
| 93) 1,2,4-Trichlorobenzene | 15.129 | 180 | 338661 | 104.094 | ug/l | | 97 |
| 94) Hexachlorobutadiene | 15.226 | 225 | 138434 | 95.189 | ug/l | | 98 |
| 95) Naphthalene | 15.360 | 128 | 841296 | 105.533 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.549 | 180 | 313033 | 105.748 | ug/l | | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032056.D
Acq On : 11 Aug 2025 10:46
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Quant Time: Aug 12 03:39:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

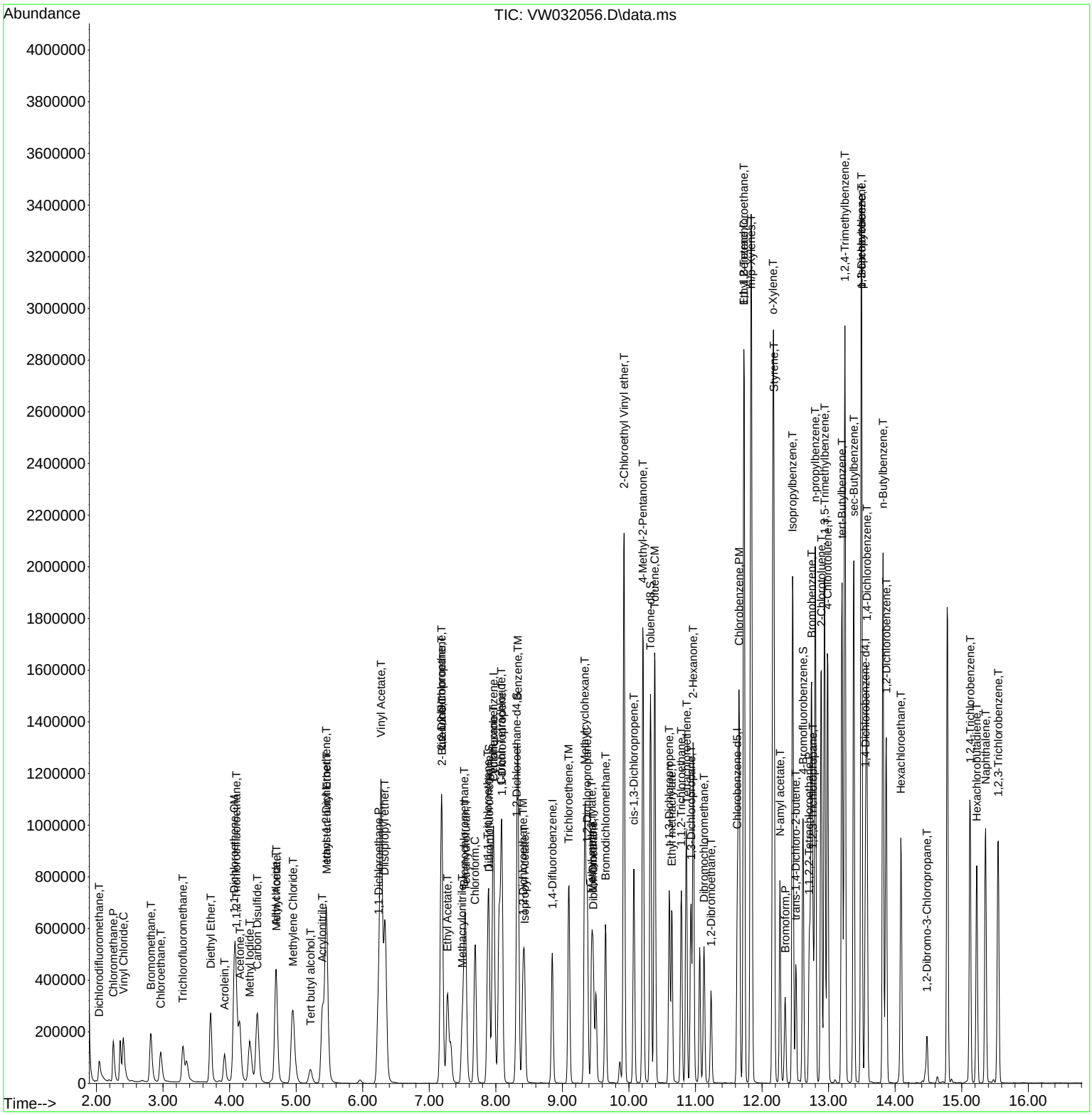
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032056.D
Acq On : 11 Aug 2025 10:46
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

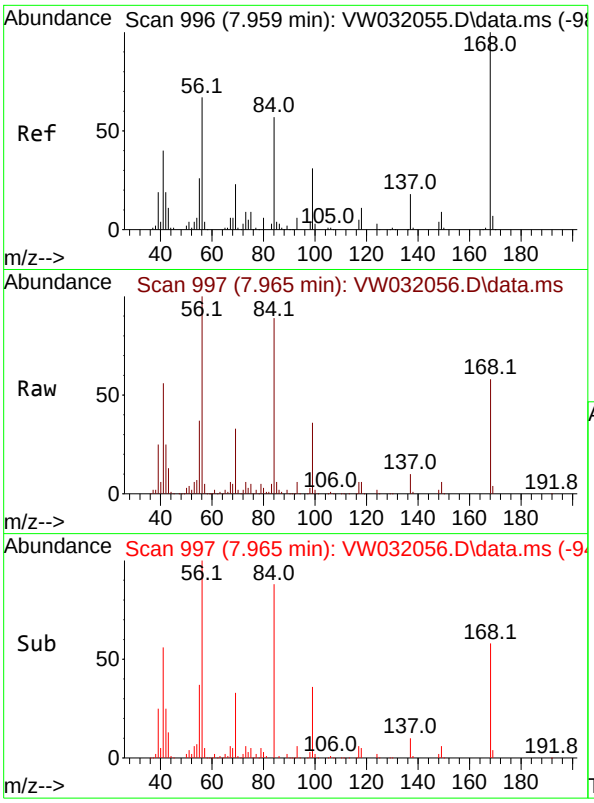
Quant Time: Aug 12 03:39:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

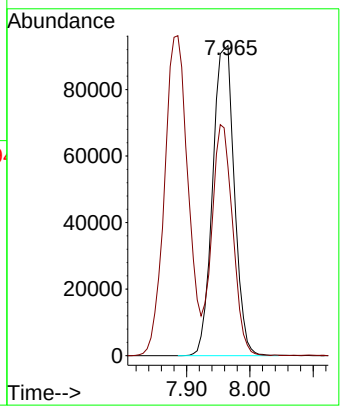





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:168 Resp: 22138

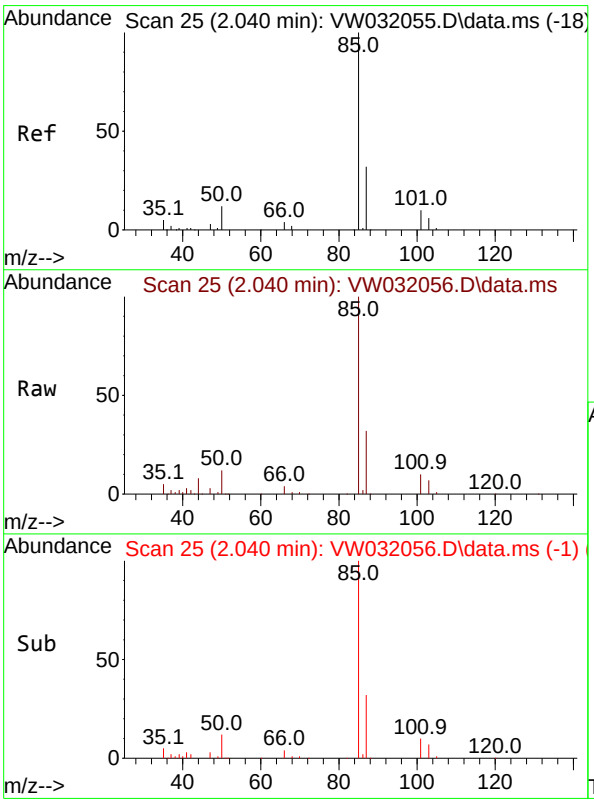
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 60.8 | 56.0 | 84.0 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

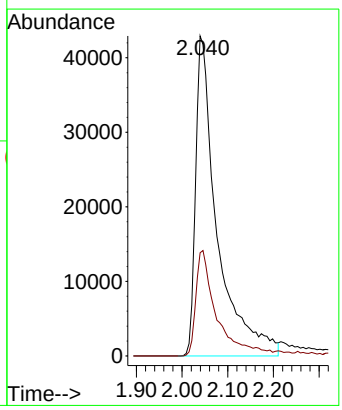
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

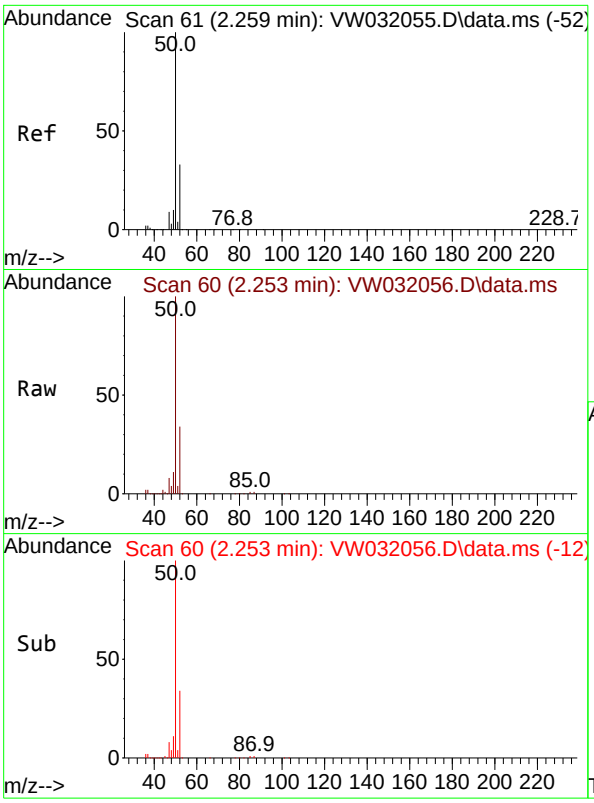



#2
Dichlorodifluoromethane
Concen: 88.627 ug/l
RT: 2.040 min Scan# 25
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 85 Resp: 140330

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.3 | 16.2 | 48.6 |

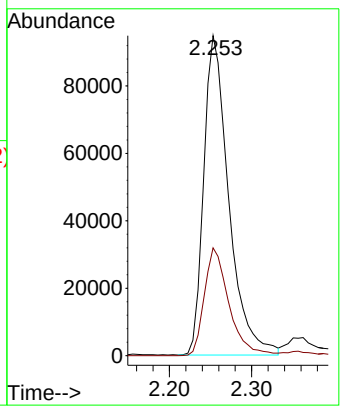





#3
Chloromethane
Concen: 93.894 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 50 Resp: 20026

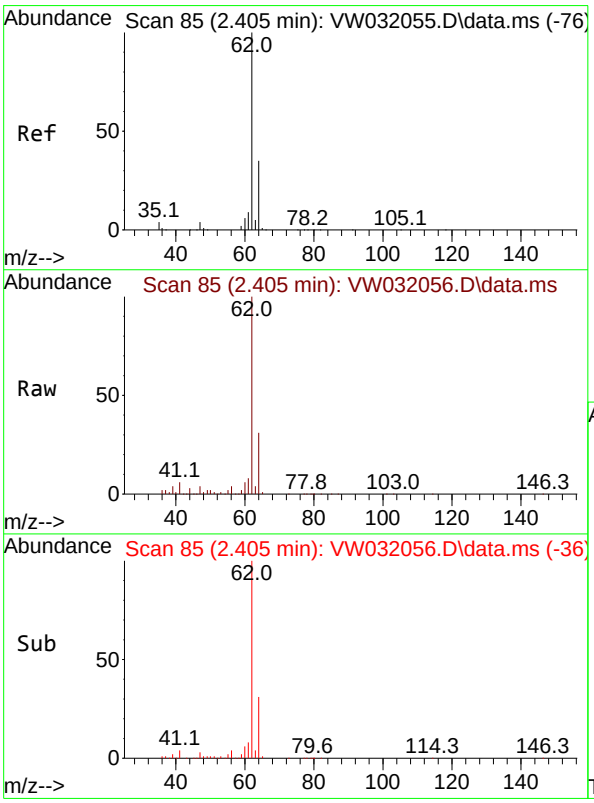
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.8 | 26.6 | 39.8 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

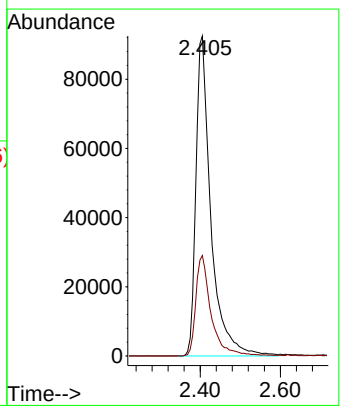
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

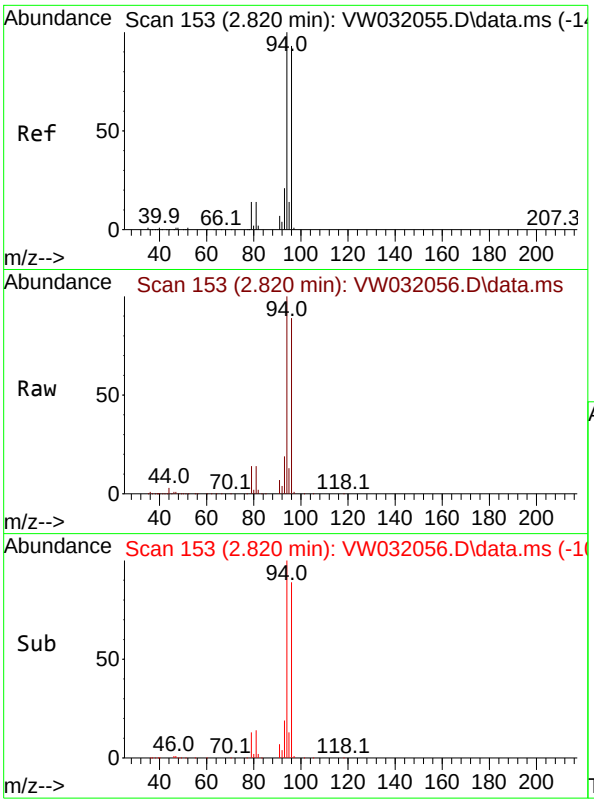



#4
Vinyl Chloride
Concen: 92.654 ug/l
RT: 2.405 min Scan# 85
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 62 Resp: 239040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.3 | 27.8 | 41.6 |

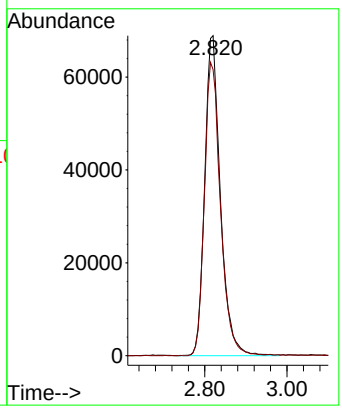





#5
Bromomethane
Concen: 94.386 ug/l
RT: 2.820 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 94 Resp: 18268

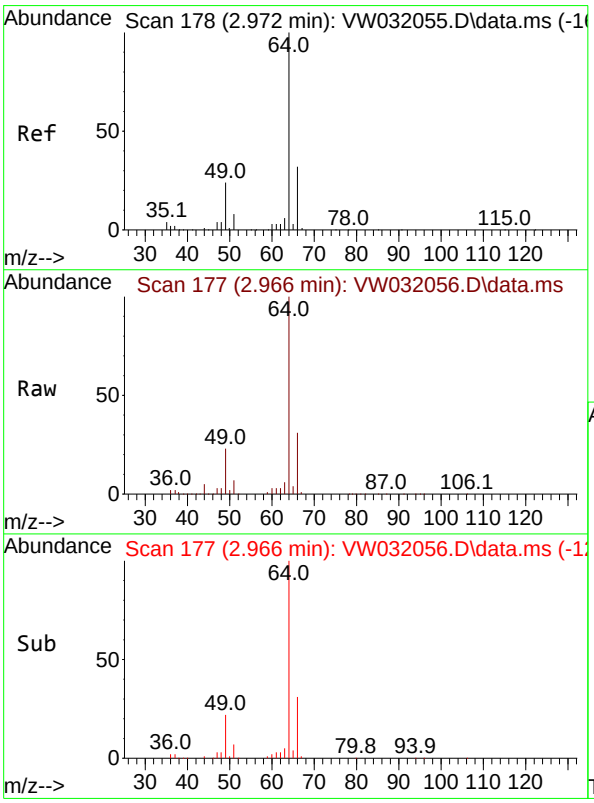
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 89.4 | 74.7 | 112.1 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

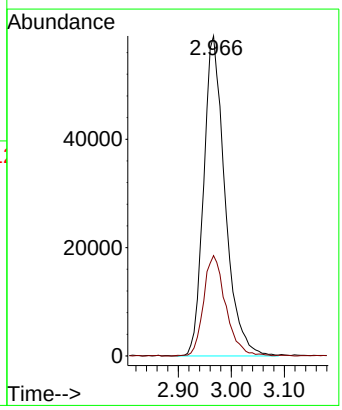
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

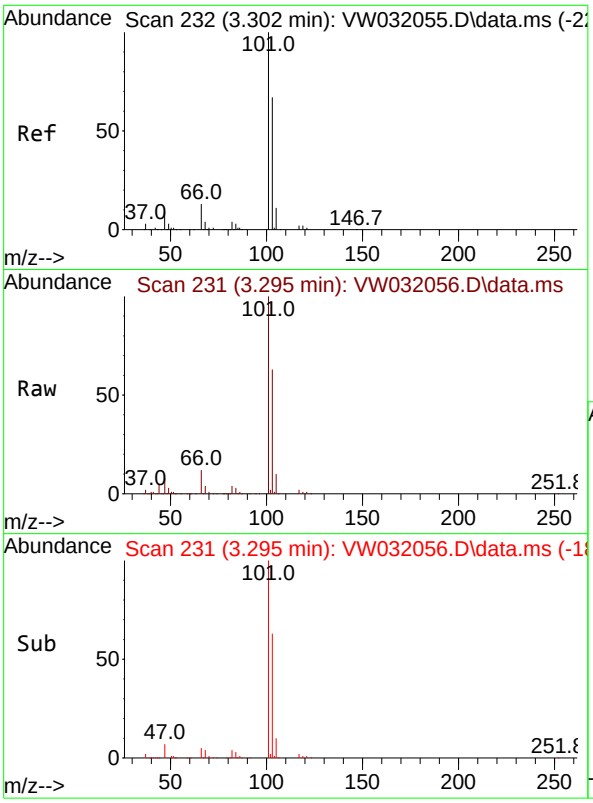



#6
Chloroethane
Concen: 96.628 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 64 Resp: 164961

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.1 | 26.0 | 39.0 |






#7
Trichlorofluoromethane
Concen: 88.382 ug/l
RT: 3.295 min Scan# 2
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

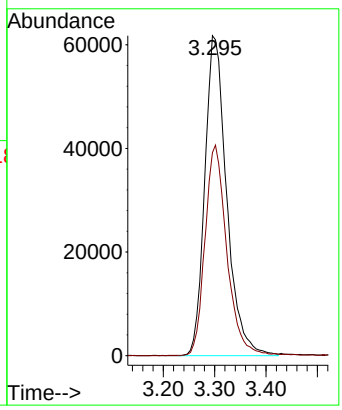
Tgt Ion:101 Resp: 18266

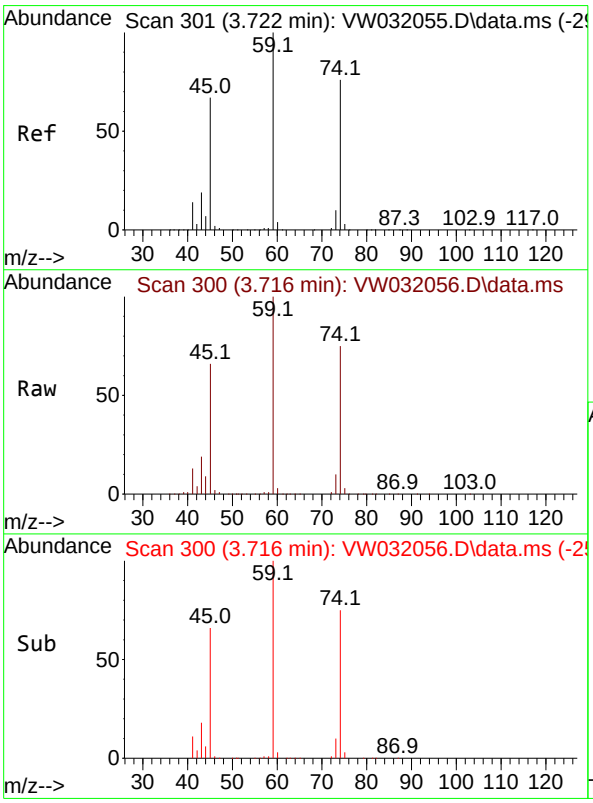
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.3 | 53.4 | 80.0 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

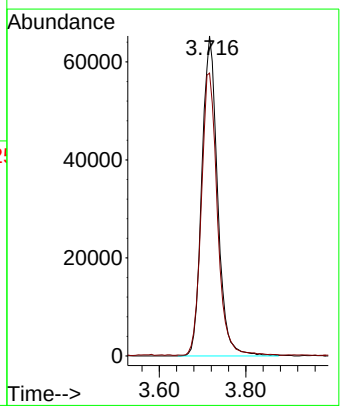


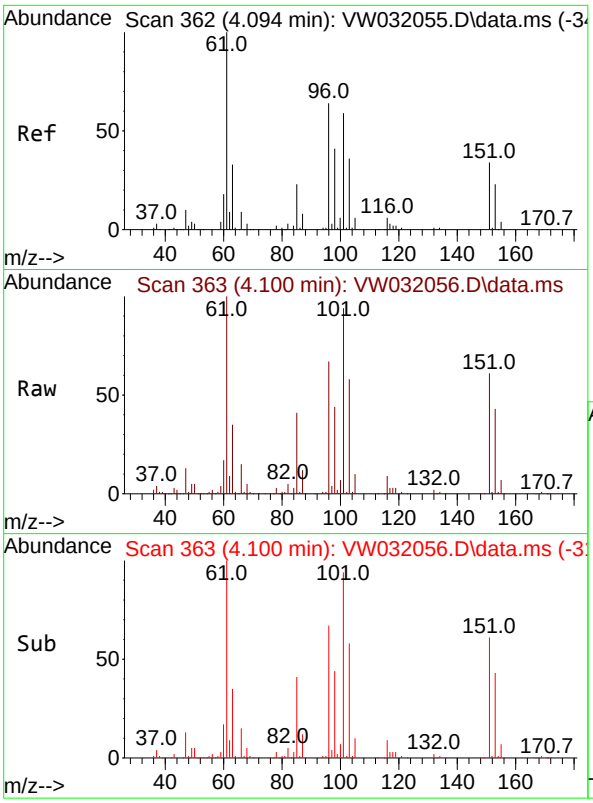




#8
Diethyl Ether
Concen: 97.227 ug/l
RT: 3.716 min Scan# 300
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 74 Resp: 164632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 90.1 | 45.4 | 136.2 |

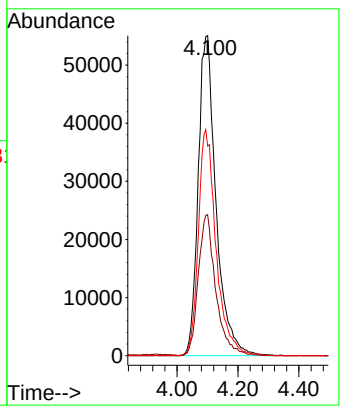





#9
1,1,2-Trichlorotrifluoroethane
Concen: 91.988 ug/l
RT: 4.100 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:101 Resp: 22429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 43.3 | 34.9 | 52.3 |
| 151 | 70.2 | 56.2 | 84.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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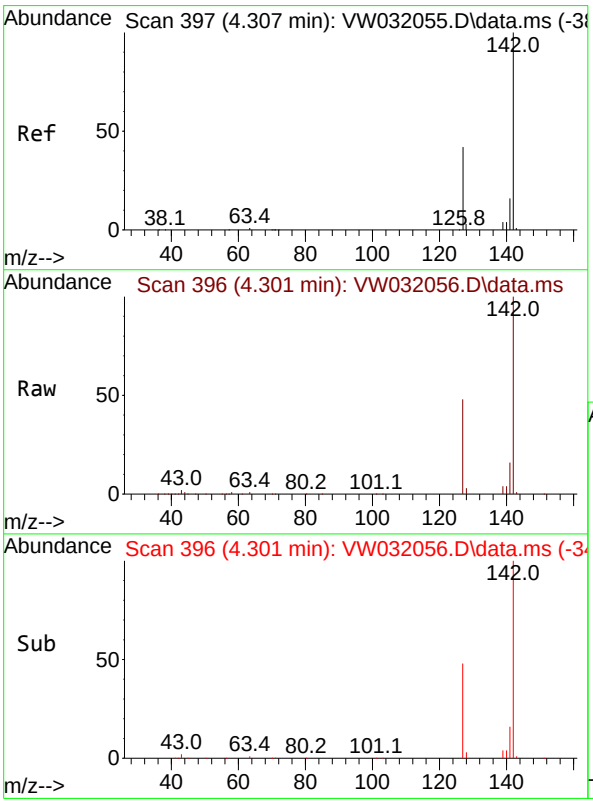
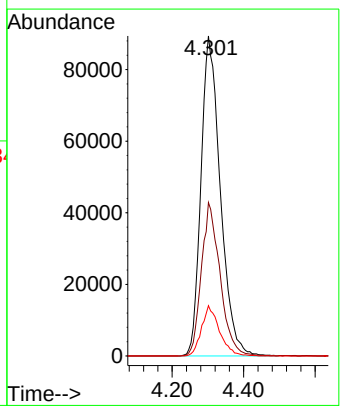
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

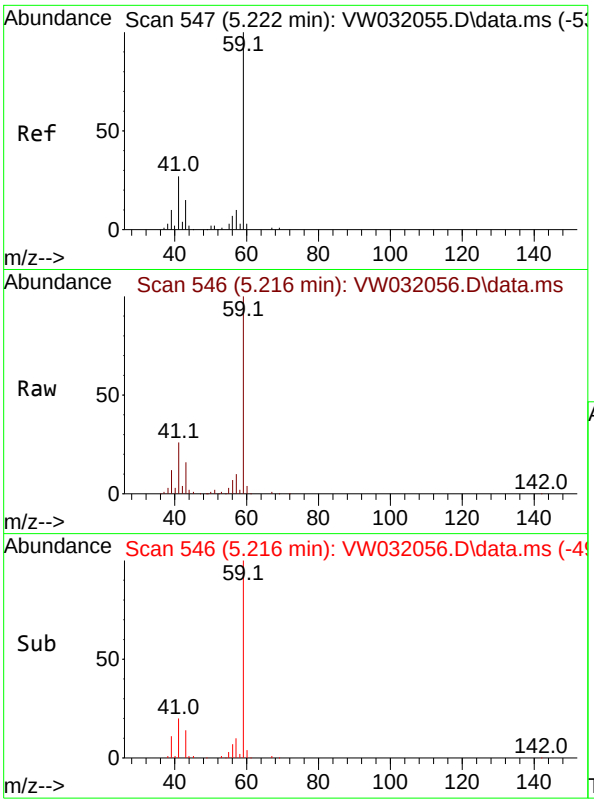



#10
Methyl Iodide
Concen: 97.237 ug/l
RT: 4.301 min Scan# 396
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:142 Resp: 336162

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 46.2 | 36.6 | 55.0 |
| 141 | 14.5 | 12.1 | 18.1 |

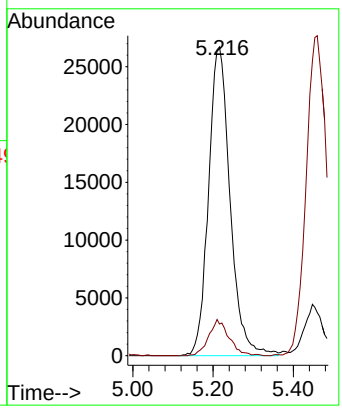





#11
Tert butyl alcohol
Concen: 480.735 ug/l
RT: 5.216 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 59 Resp: 9967

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.9 | 8.7 | 13.1 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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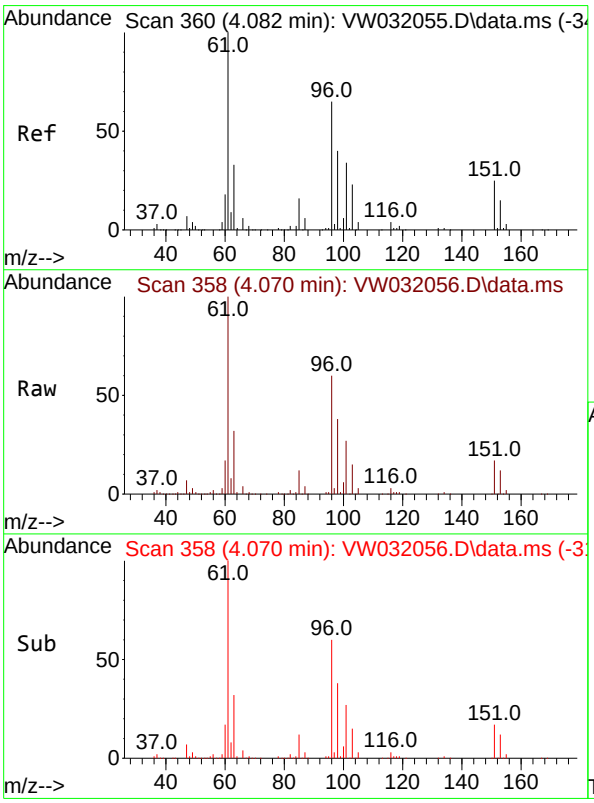
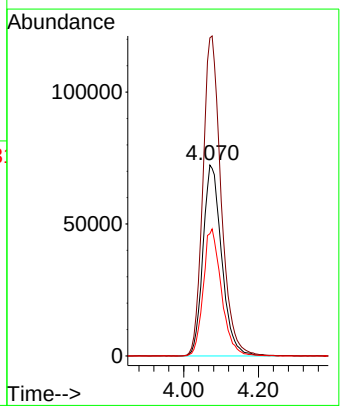
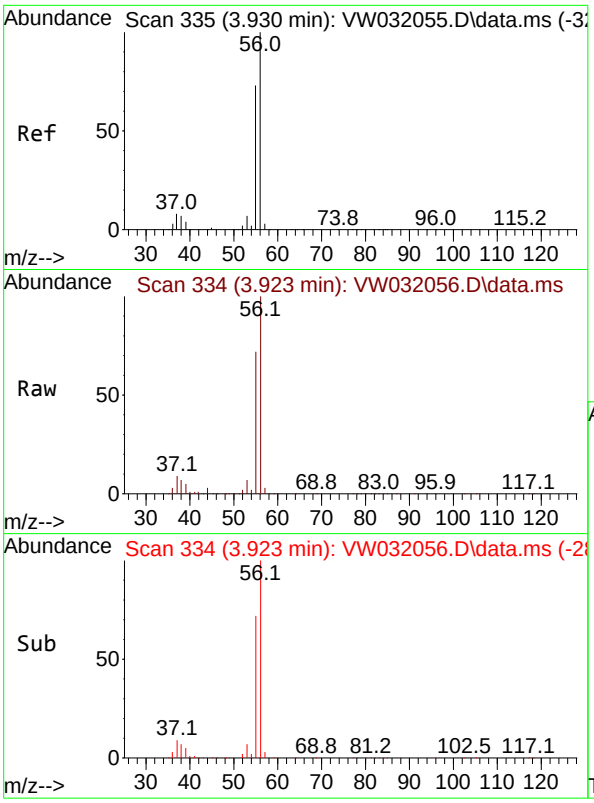



#12
1,1-Dichloroethene
Concen: 93.615 ug/l
RT: 4.070 min Scan# 358
Delta R.T. -0.012 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 96 Resp: 251341

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 166.5 | 123.4 | 185.2 |
| 98 | 64.0 | 49.5 | 74.3 |

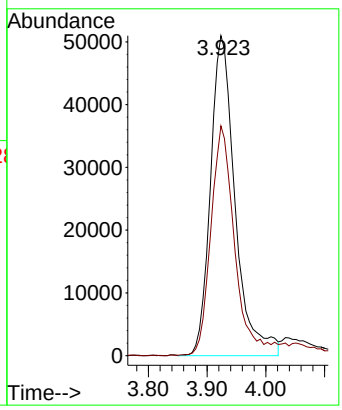





#13
Acrolein
Concen: 449.230 ug/l
RT: 3.923 min Scan# 3
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 56 Resp: 14840

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 69.0 | 55.4 | 83.2 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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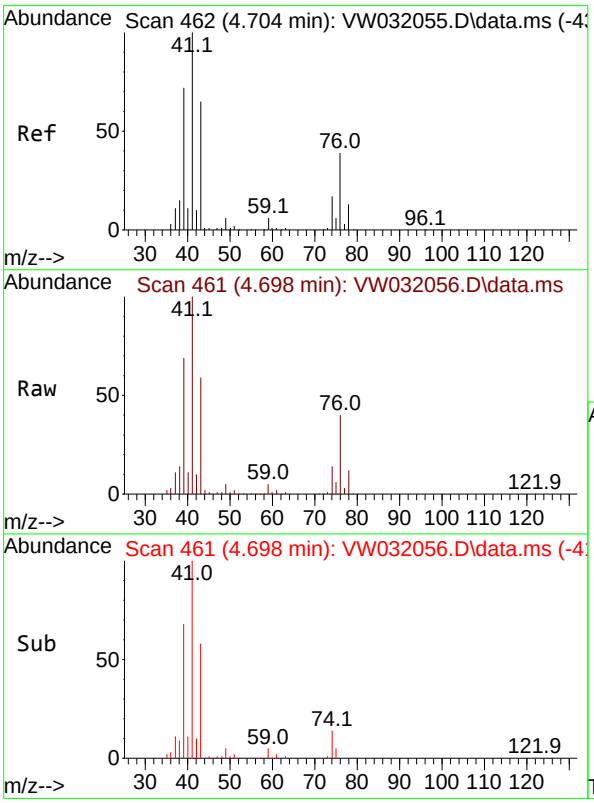
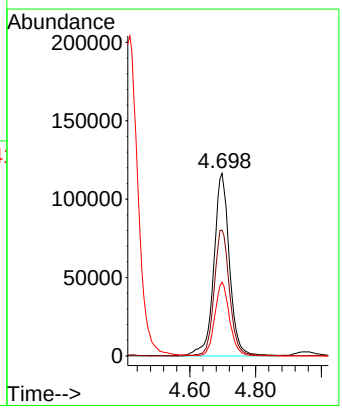
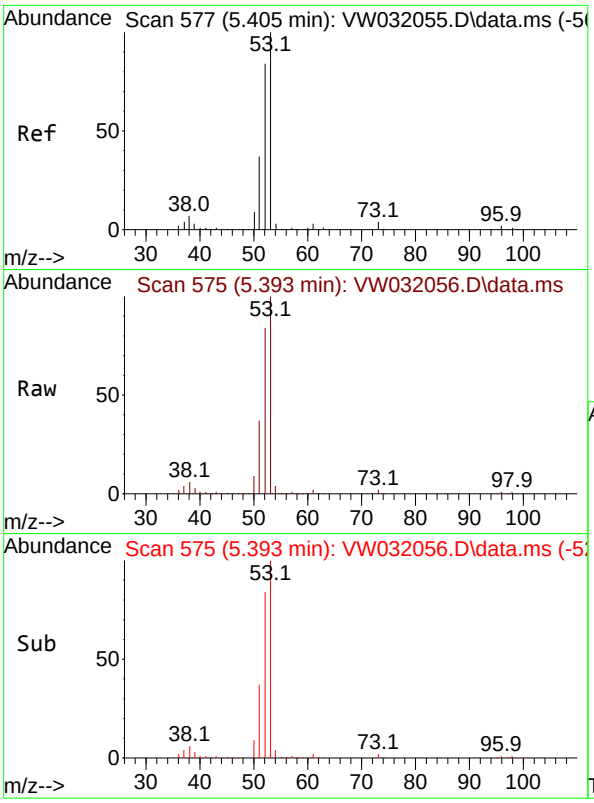



#14
Allyl chloride
Concen: 98.543 ug/l
RT: 4.698 min Scan# 461
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 41 Resp: 385062

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 67.5 | 54.5 | 81.7 |
| 76 | 37.8 | 29.3 | 43.9 |

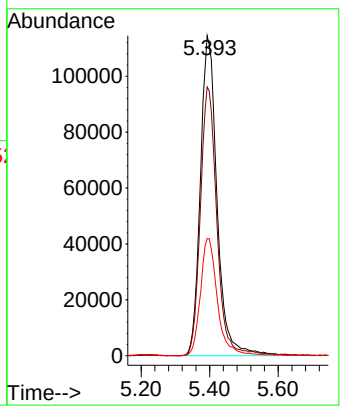





#15
Acrylonitrile
Concen: 481.445 ug/l
RT: 5.393 min Scan# 5
Delta R.T. -0.012 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 53 Resp: 38829

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 83.3 | 66.1 | 99.1 |
| 51 | 37.3 | 29.2 | 43.8 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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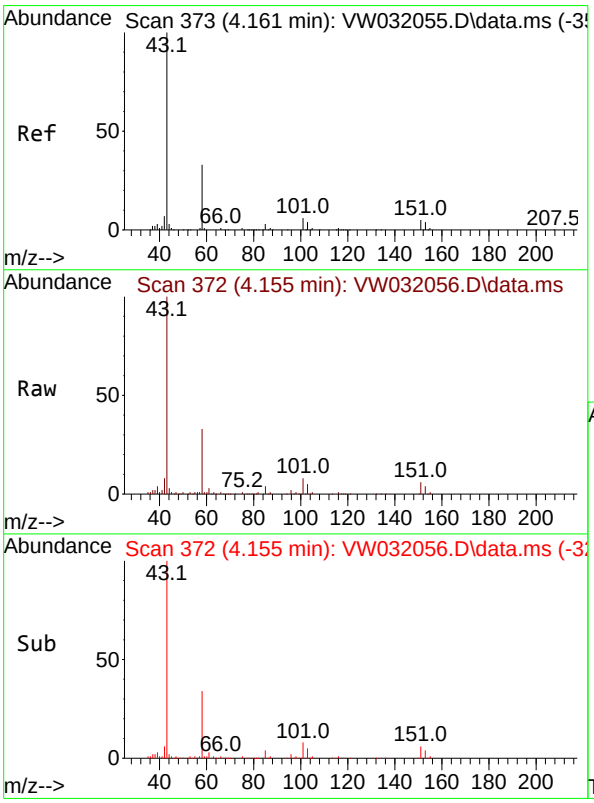
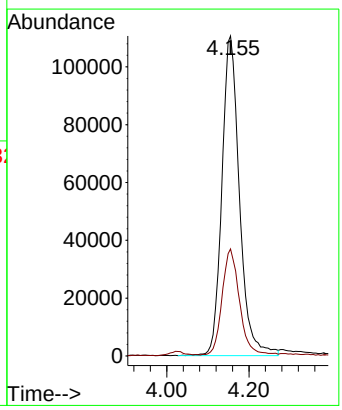
Supervised By :Semsettin Yesilyurt 08/12/2025

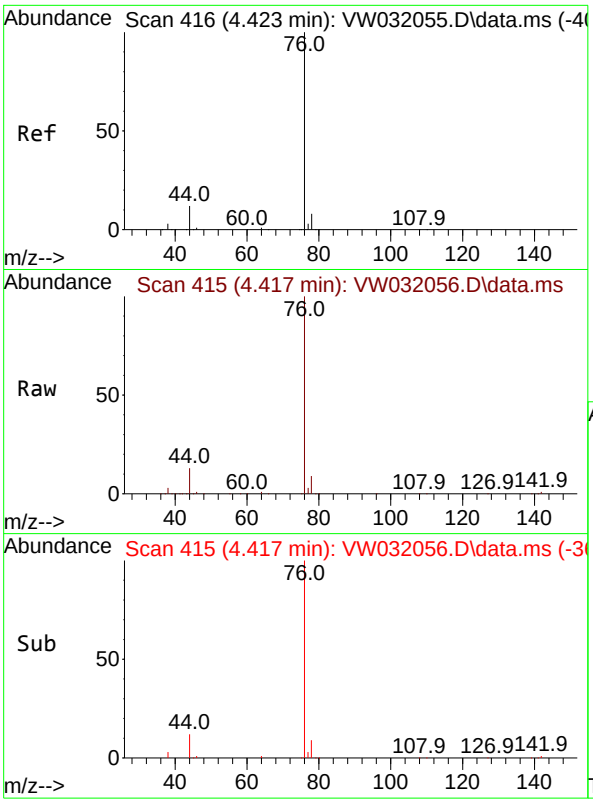



#16
Acetone
Concen: 443.358 ug/l
RT: 4.155 min Scan# 372
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 43 Resp: 328664

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.9 | 26.6 | 39.8 |

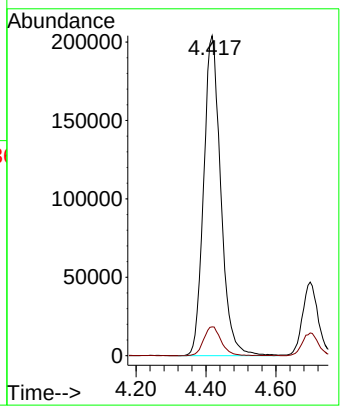





#17
Carbon Disulfide
Concen: 96.248 ug/l
RT: 4.417 min Scan# 4
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 76 Resp: 69361

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.0 | 6.4 | 9.6 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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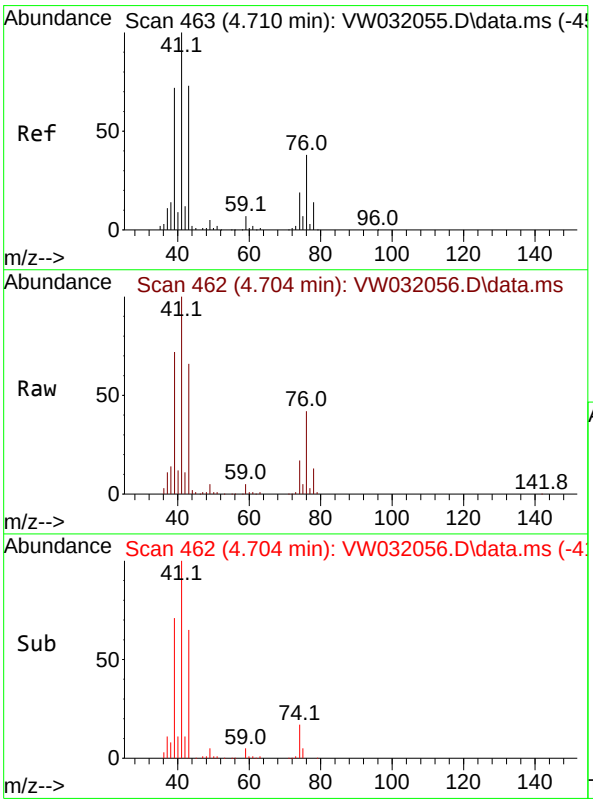
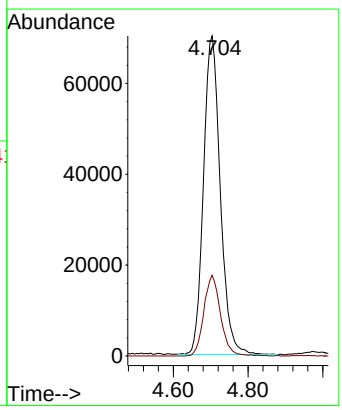
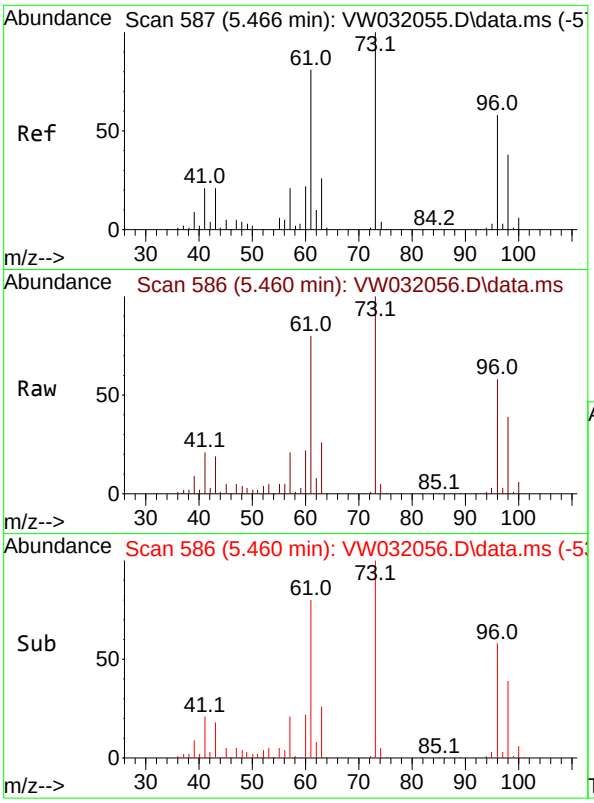



#18
Methyl Acetate
Concen: 93.230 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 43 Resp: 218695

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 25.0 | 20.6 | 31.0 |

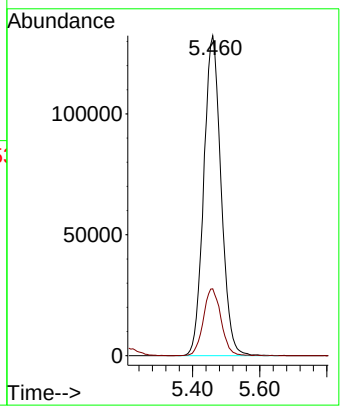





#19
Methyl tert-butyl Ether
Concen: 100.184 ug/l
RT: 5.460 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 73 Resp: 47392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 20.9 | 17.2 | 25.8 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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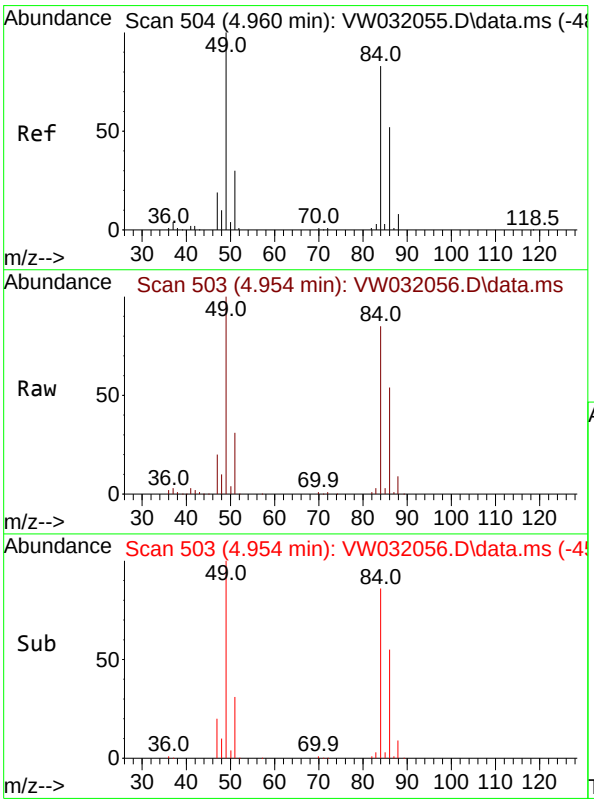
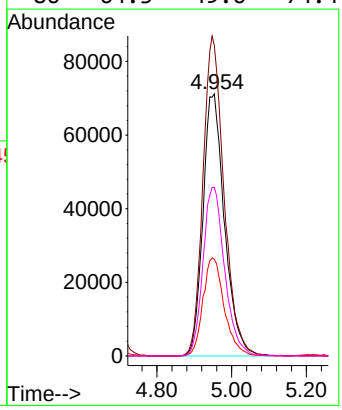
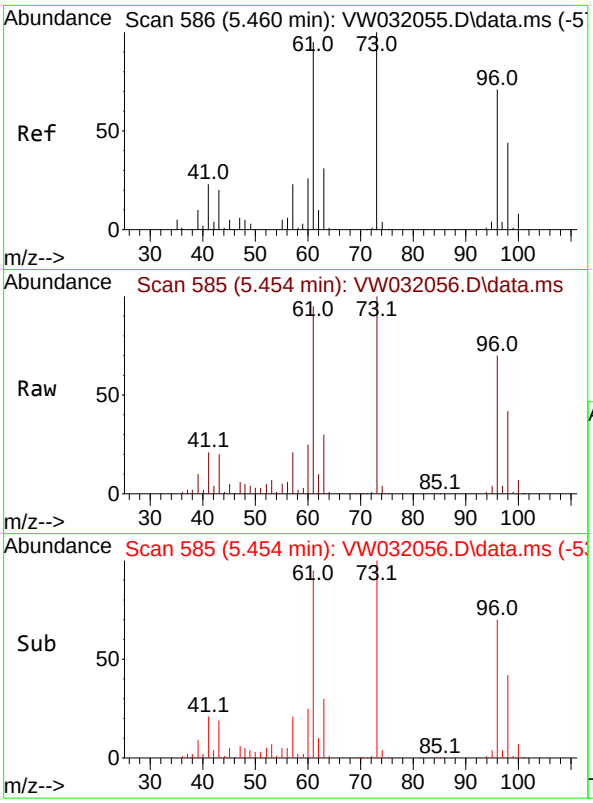



#20
Methylene Chloride
Concen: 83.165 ug/l
RT: 4.954 min Scan# 503
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 84 Resp: 285049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 118.3 | 95.9 | 143.9 |
| 51 | 36.8 | 28.6 | 43.0 |
| 86 | 64.3 | 49.6 | 74.4 |

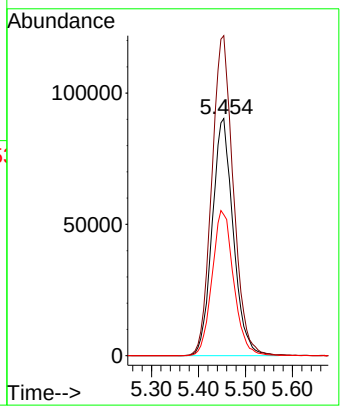





#21
trans-1,2-Dichloroethene
Concen: 98.787 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 96 Resp: 28146

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 135.0 | 106.8 | 160.2 |
| 98 | 59.5 | 49.6 | 74.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
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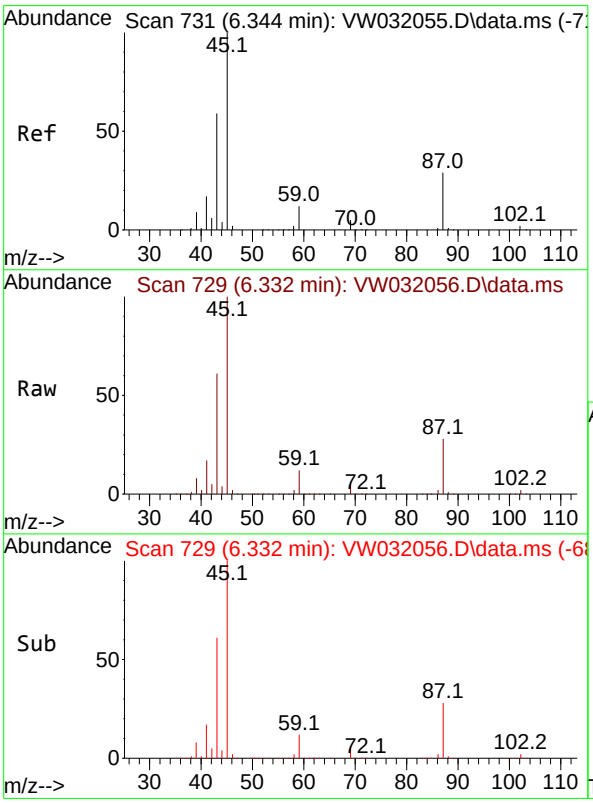
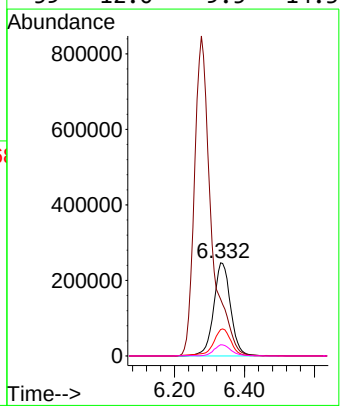
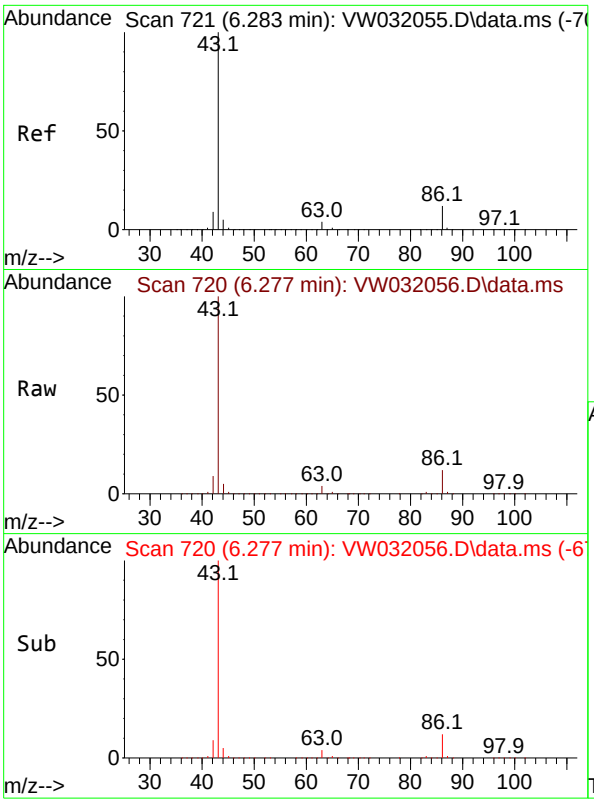



#22
Diisopropyl ether
Concen: 100.722 ug/l
RT: 6.332 min Scan# 729
Delta R.T. -0.012 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 45 Resp: 829703

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 60.8 | 47.0 | 70.4 |
| 87 | 28.3 | 23.8 | 35.8 |
| 59 | 12.0 | 9.5 | 14.3 |

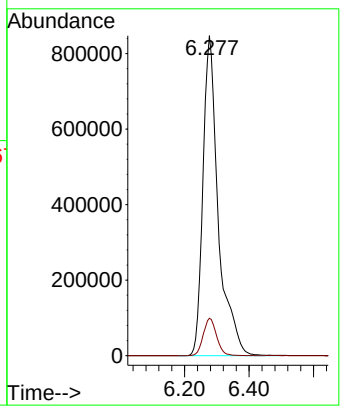





#23
Vinyl Acetate
Concen: 518.312 ug/l
RT: 6.277 min Scan# 7
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 43 Resp: 280325

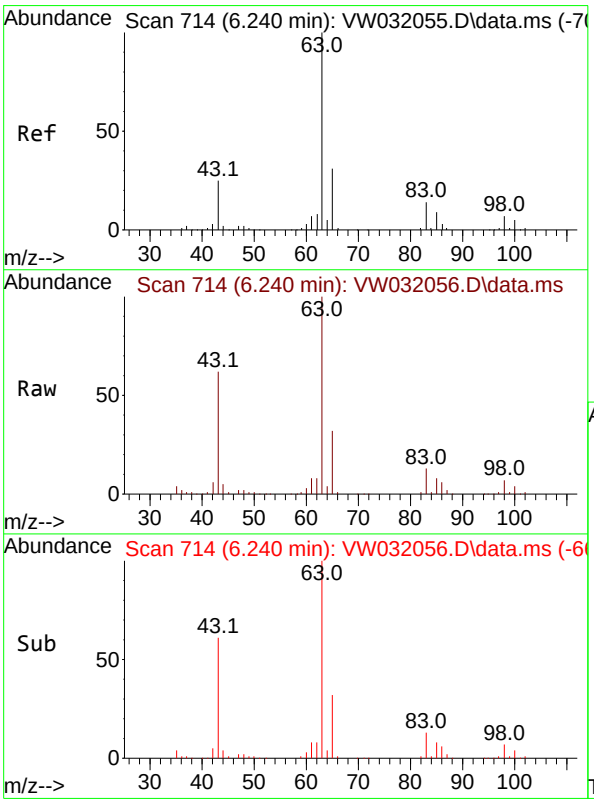
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.7 | 9.4 | 14.0 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

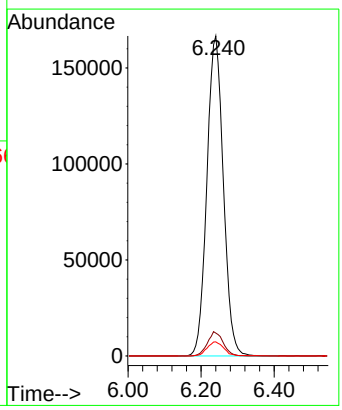
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

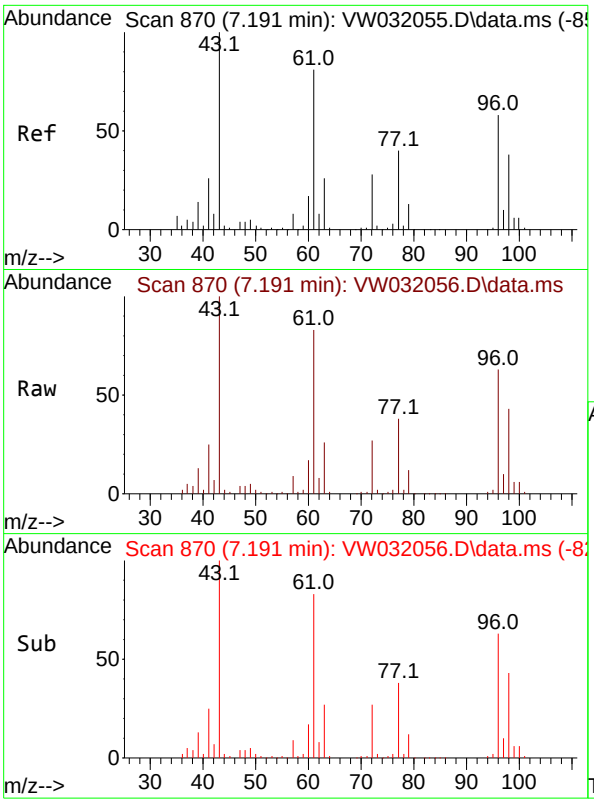



#24
1,1-Dichloroethane
Concen: 98.678 ug/l
RT: 6.240 min Scan# 714
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 63 Resp: 519360

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.2 | 3.7 | 11.1 |
| 100 | 4.4 | 2.5 | 7.4 |

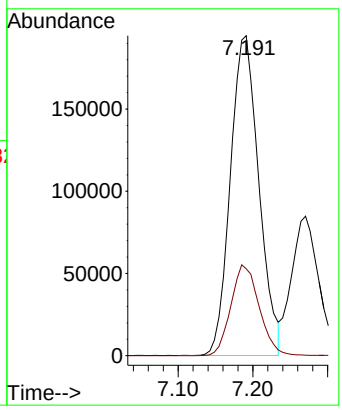





#25
2-Butanone
Concen: 489.508 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 43 Resp: 51573

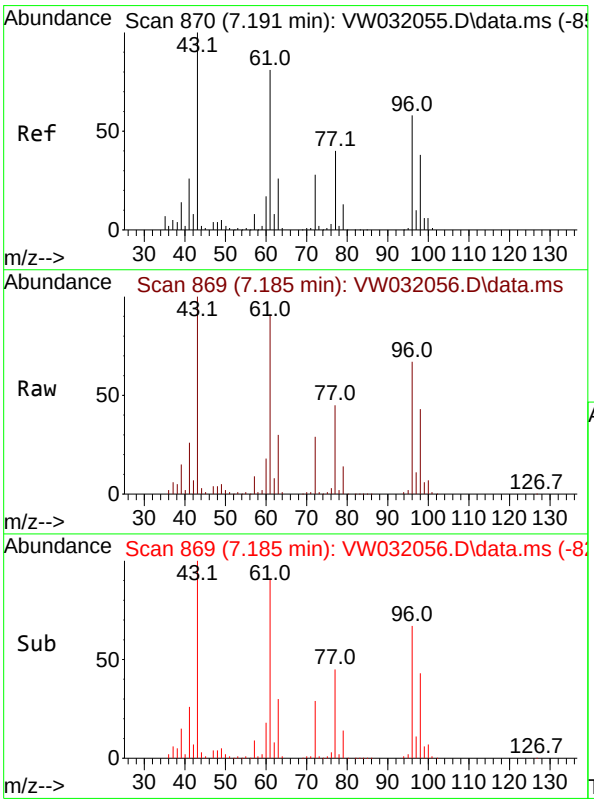
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 27.1 | 22.3 | 33.5 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

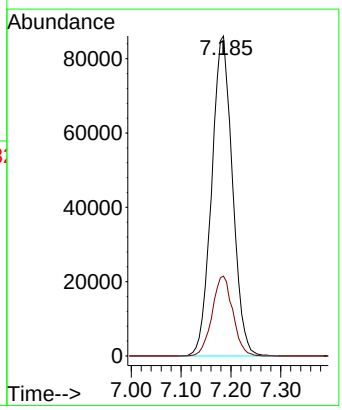
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

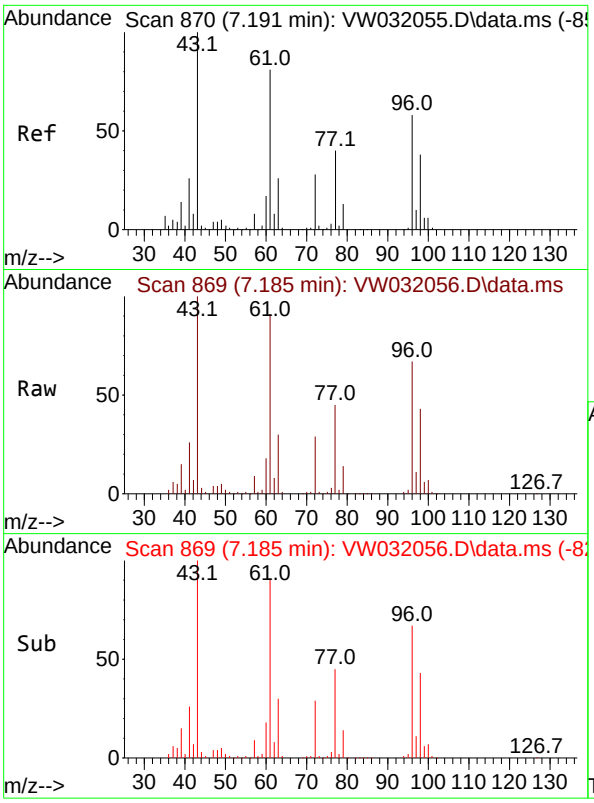



#26
2,2-Dichloropropane
Concen: 94.405 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 77 Resp: 249271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 24.8 | 12.3 | 36.9 |

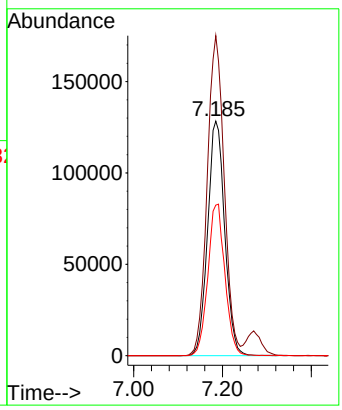





#27
cis-1,2-Dichloroethene
Concen: 103.016 ug/l
RT: 7.185 min Scan# 8
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 96 Resp: 34309

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 136.1 | 0.0 | 281.2 |
| 98 | 64.5 | 0.0 | 130.8 |




**Instrument :**
MSVOA_W
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VSTDICC100

**Manual Integrations**
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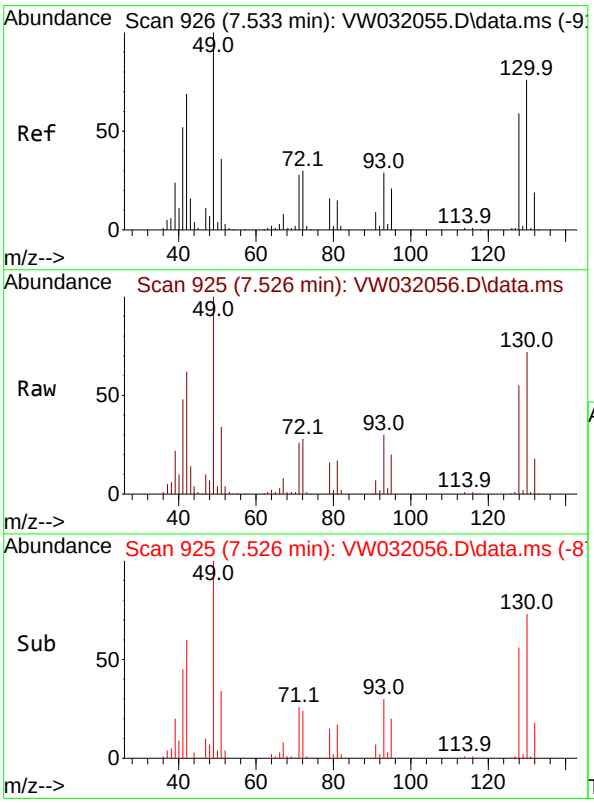
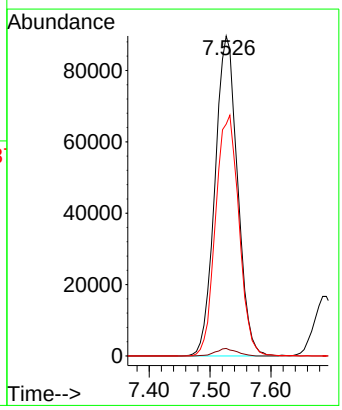
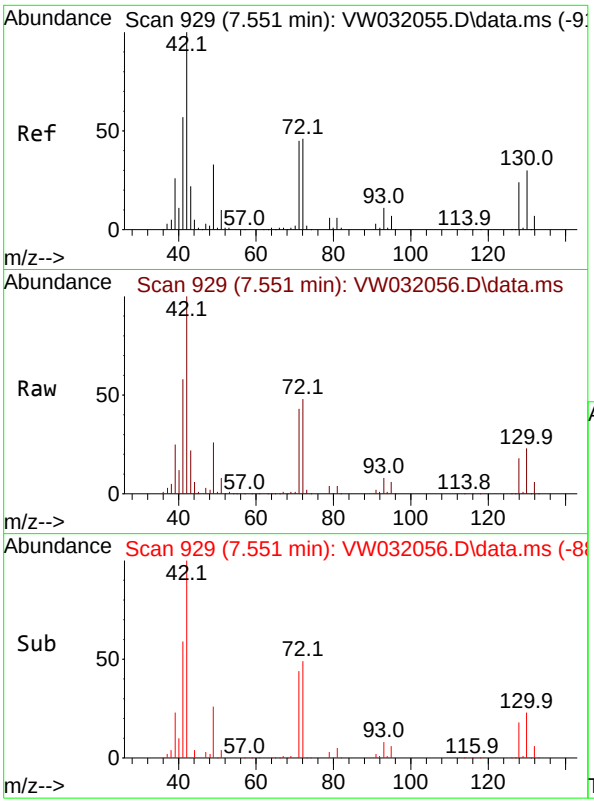



#28
Bromochloromethane
Concen: 96.333 ug/l
RT: 7.526 min Scan# 925
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 49 Resp: 230727

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.2 | 0.0 | 4.2 |
| 130 | 77.8 | 61.9 | 92.9 |

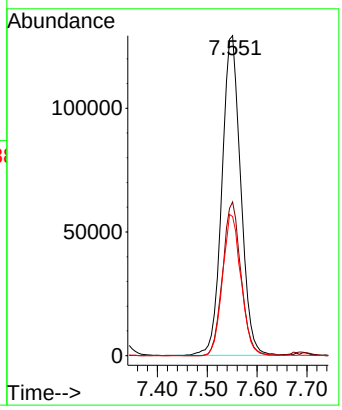





#29
Tetrahydrofuran
Concen: 487.284 ug/l
RT: 7.551 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 42 Resp: 33857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 47.0 | 36.6 | 55.0 |
| 71 | 43.6 | 34.7 | 52.1 |




**Instrument :**
MSVOA_W
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VSTDICC100

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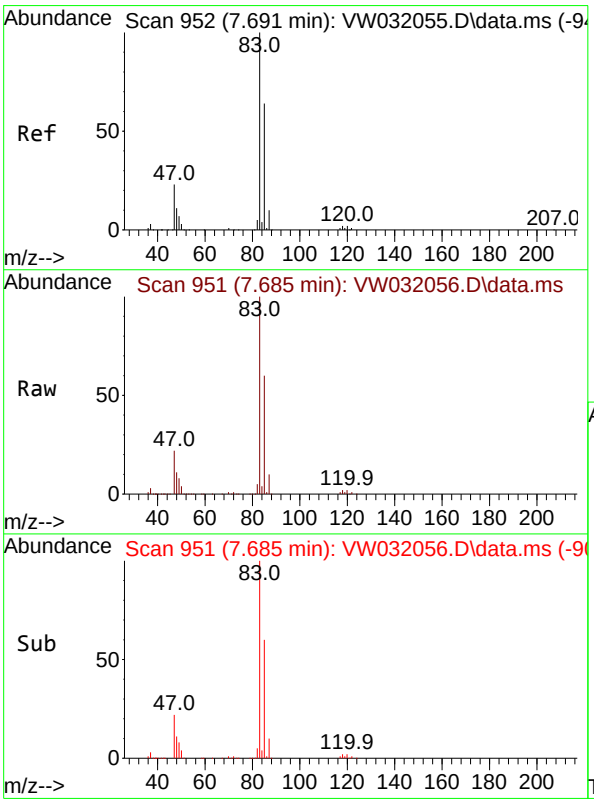
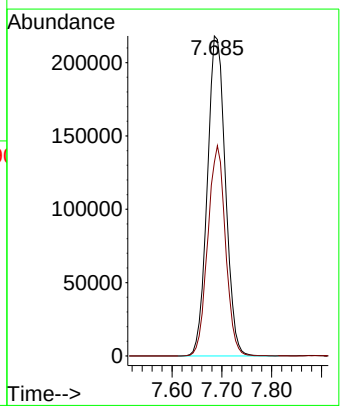
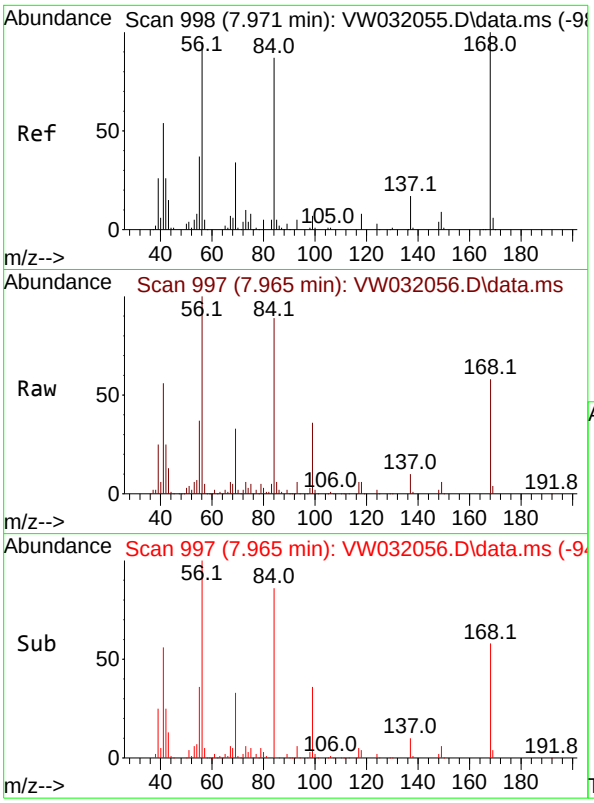



#30
Chloroform
Concen: 98.613 ug/l
RT: 7.685 min Scan# 951
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 83 Resp: 550232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 60.5 | 51.0 | 76.4 |

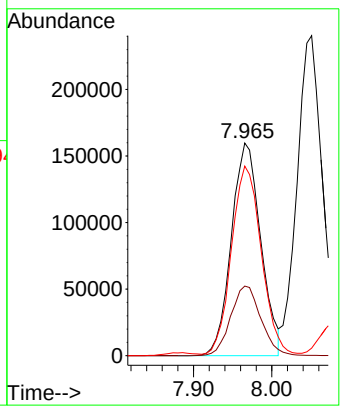





#31
Cyclohexane
Concen: 91.292 ug/l
RT: 7.965 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 56 Resp: 41655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 32.8 | 28.6 | 42.8 |
| 84 | 87.9 | 73.0 | 109.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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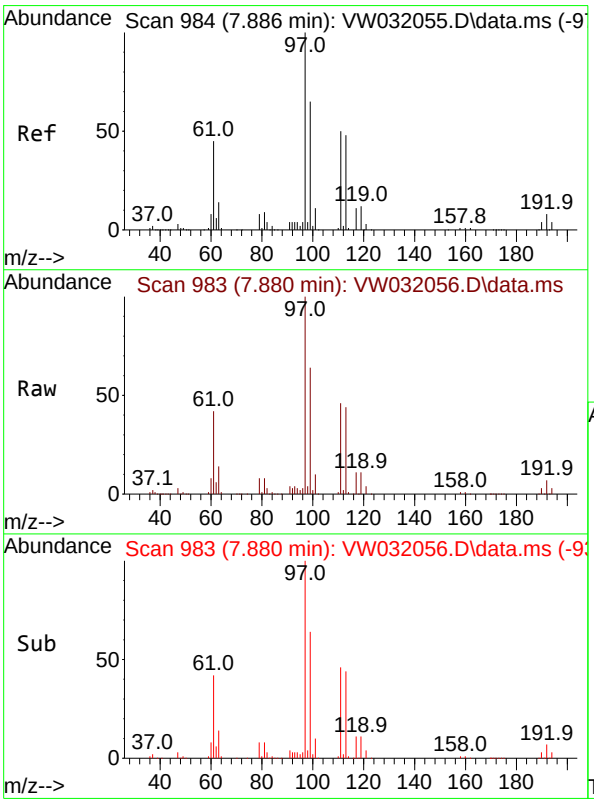
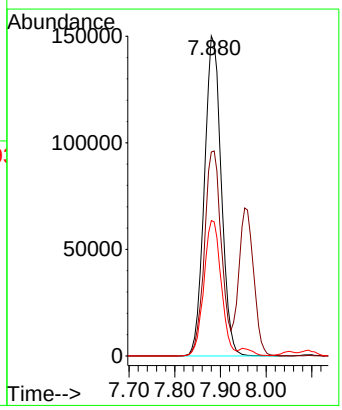
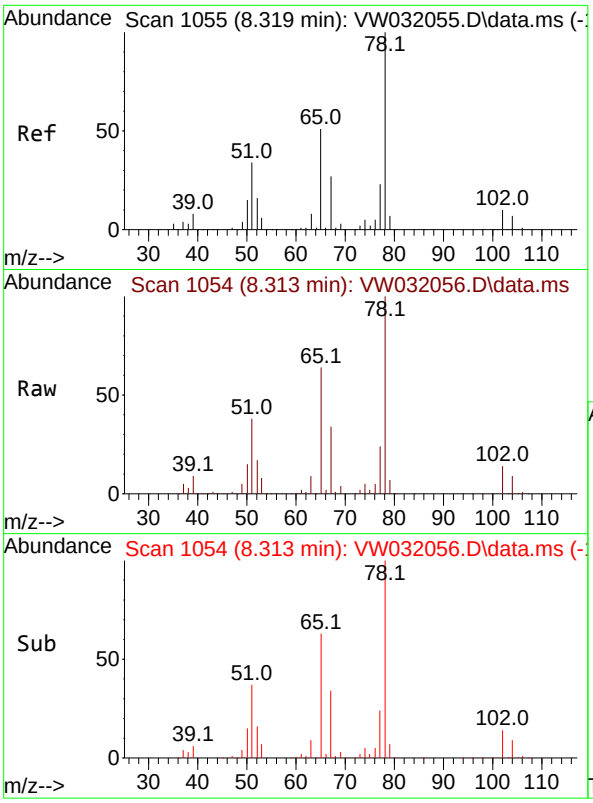



#32
1,1,1-Trichloroethane
Concen: 94.913 ug/l
RT: 7.880 min Scan# 983
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 97 Resp: 384671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.5 | 51.8 | 77.8 |
| 61 | 43.3 | 35.9 | 53.9 |

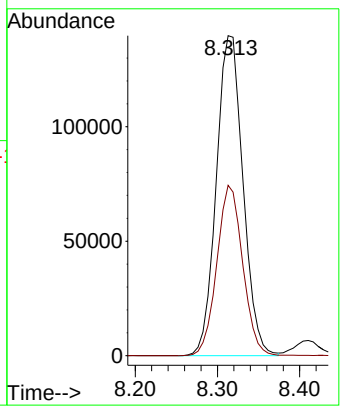





#33
1,2-Dichloroethane-d4
Concen: 98.509 ug/l
RT: 8.313 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 65 Resp: 31541

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.6 | 0.0 | 102.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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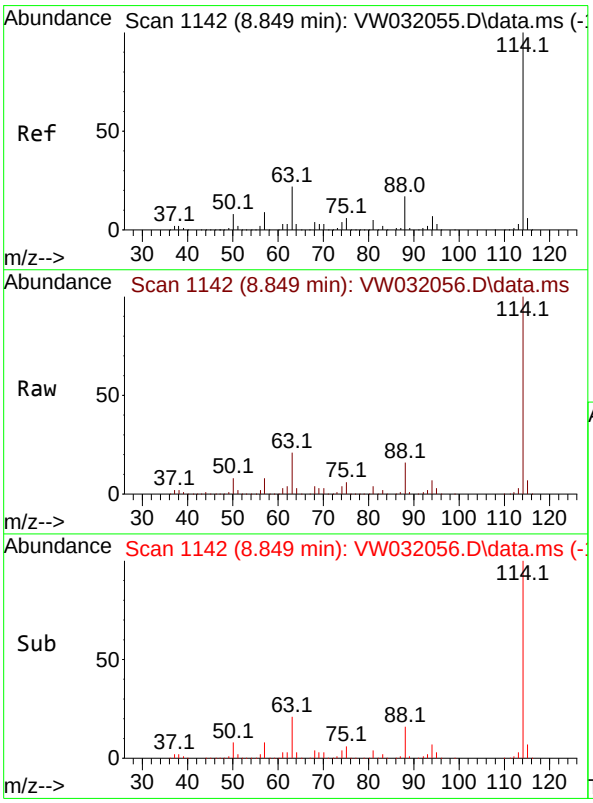
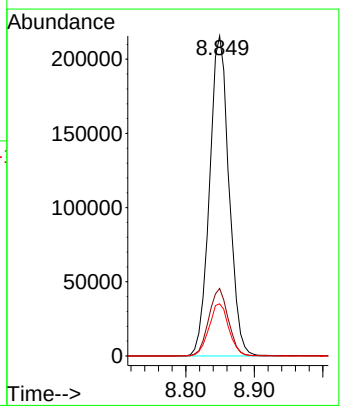
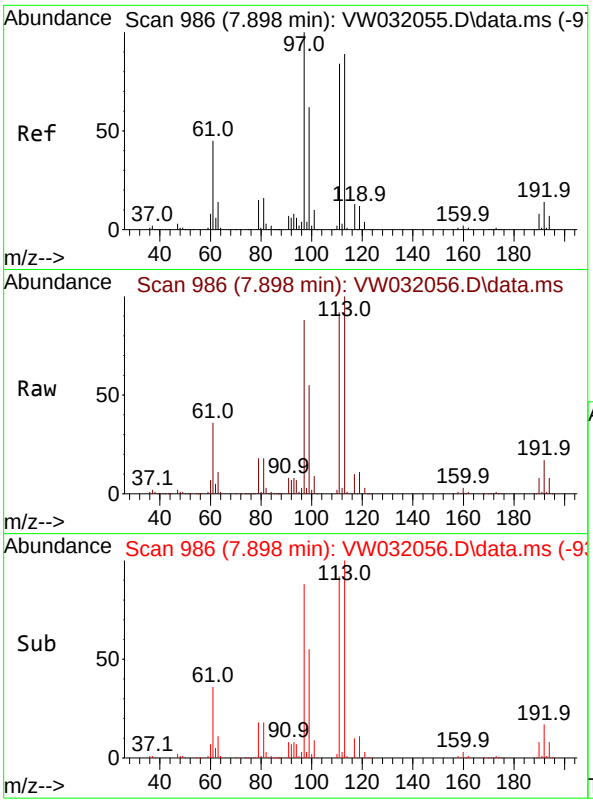



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:114 Resp: 424901

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.1 | 0.0 | 43.0 |
| 88 | 16.3 | 0.0 | 33.8 |

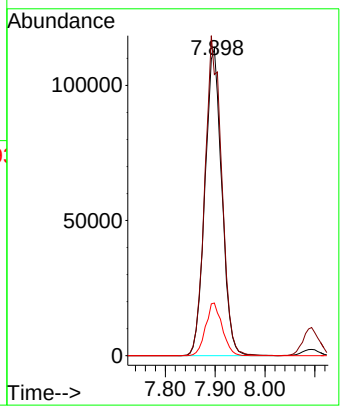





#35
Dibromofluoromethane
Concen: 96.945 ug/l
RT: 7.898 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:113 Resp: 26611

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 104.0 | 80.1 | 120.1 |
| 192 | 16.9 | 13.1 | 19.7 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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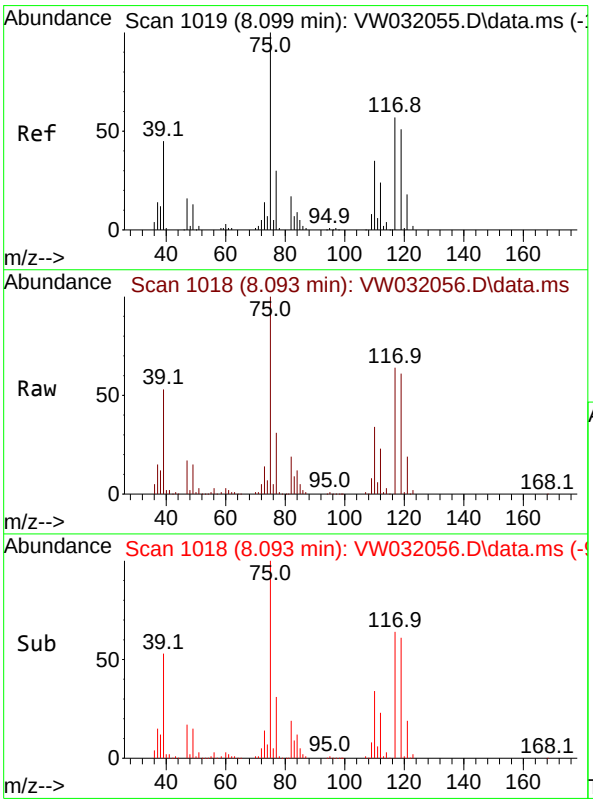
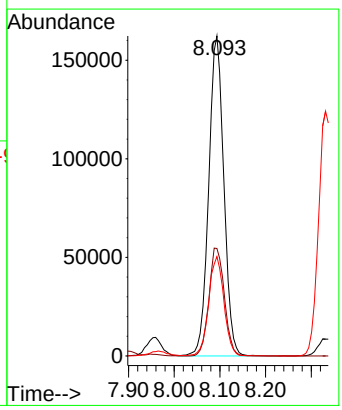
Supervised By :Semsettin Yesilyurt 08/12/2025

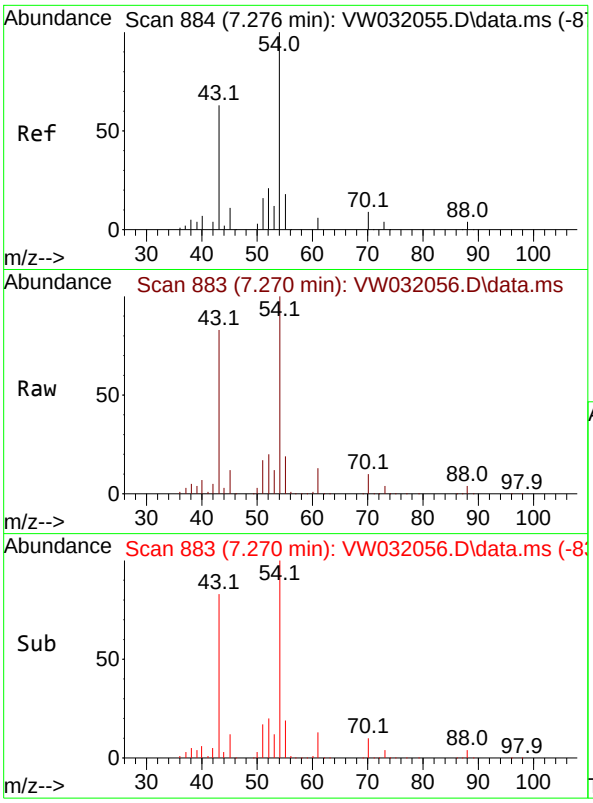



#36
1,1-Dichloropropene
Concen: 96.444 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 75 Resp: 373215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 34.5 | 17.4 | 52.2 |
| 77 | 31.3 | 24.7 | 37.1 |

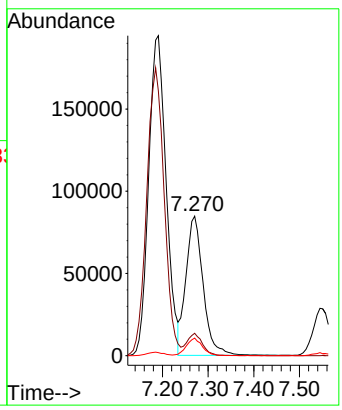





#37
Ethyl Acetate
Concen: 97.375 ug/l
RT: 7.270 min Scan# 8
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 43 Resp: 22192

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.4 | 11.8 | 17.6 |
| 70 | 11.5 | 9.4 | 14.0 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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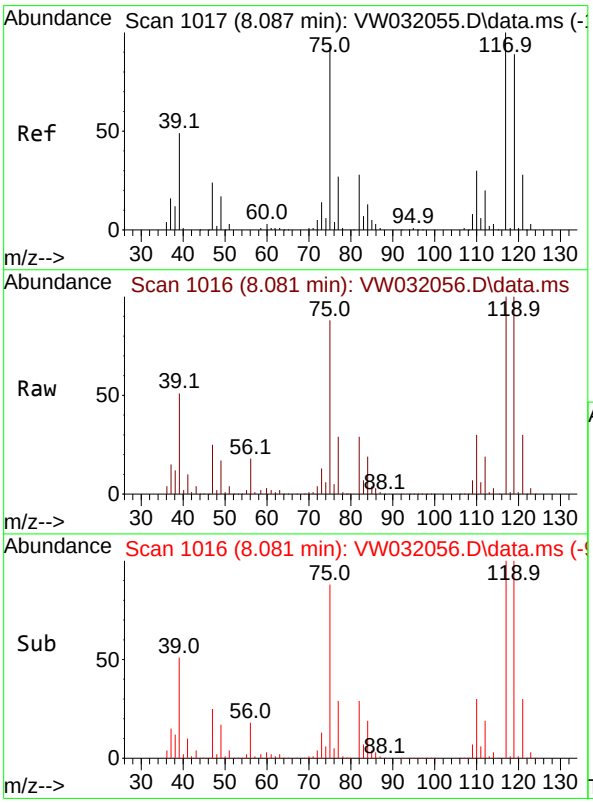
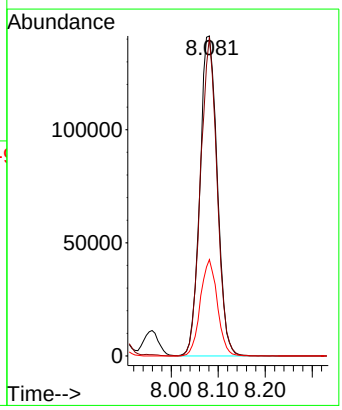
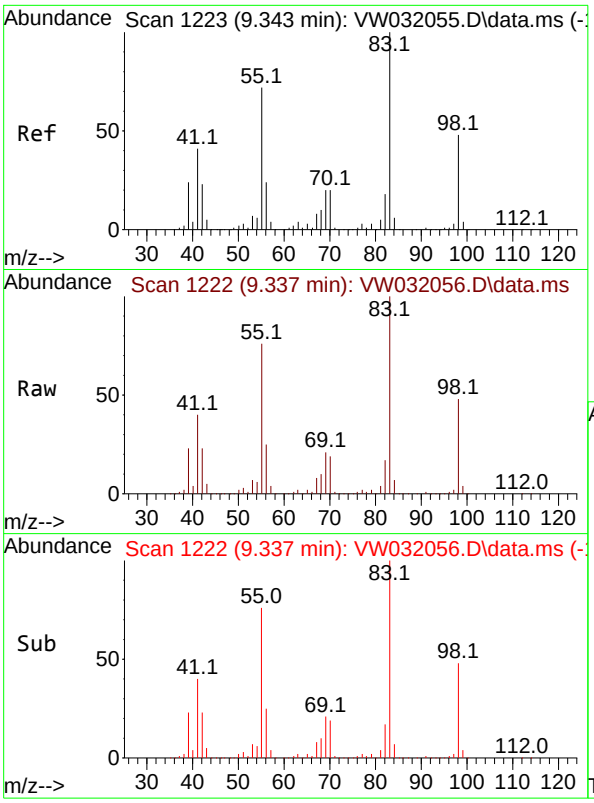



#38
Carbon Tetrachloride
Concen: 97.035 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:117 Resp: 362373

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 99.6 | 71.4 | 107.2 |
| 121 | 30.1 | 22.3 | 33.5 |






#39
Methylcyclohexane
Concen: 97.342 ug/l
RT: 9.337 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 83 Resp: 45913

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 76.0 | 57.9 | 86.9 |
| 98 | 47.8 | 38.3 | 57.5 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

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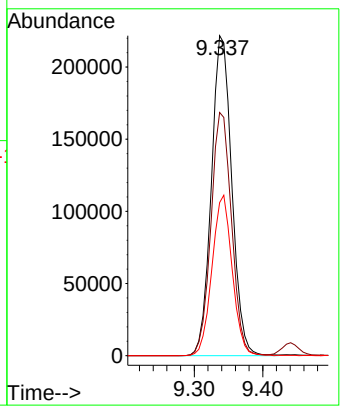
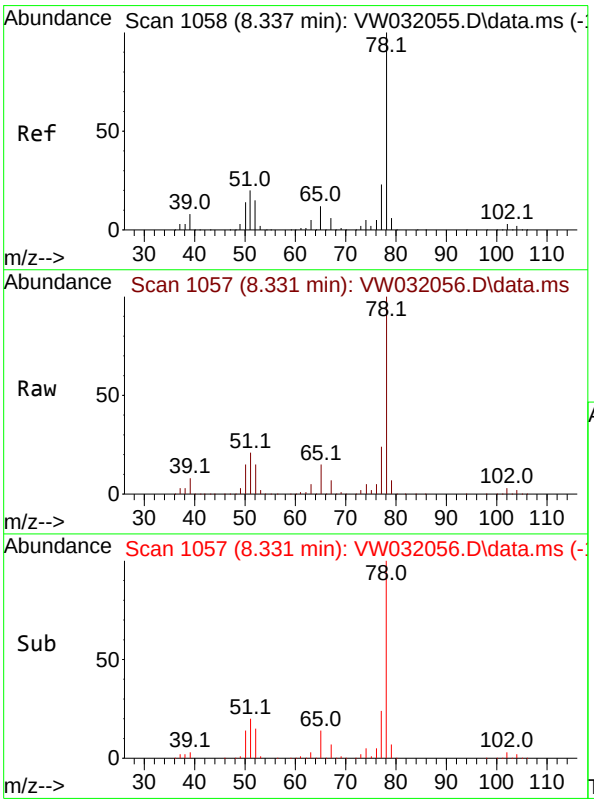
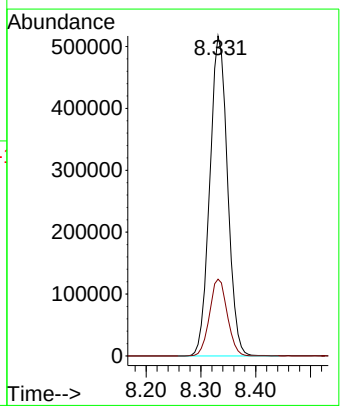


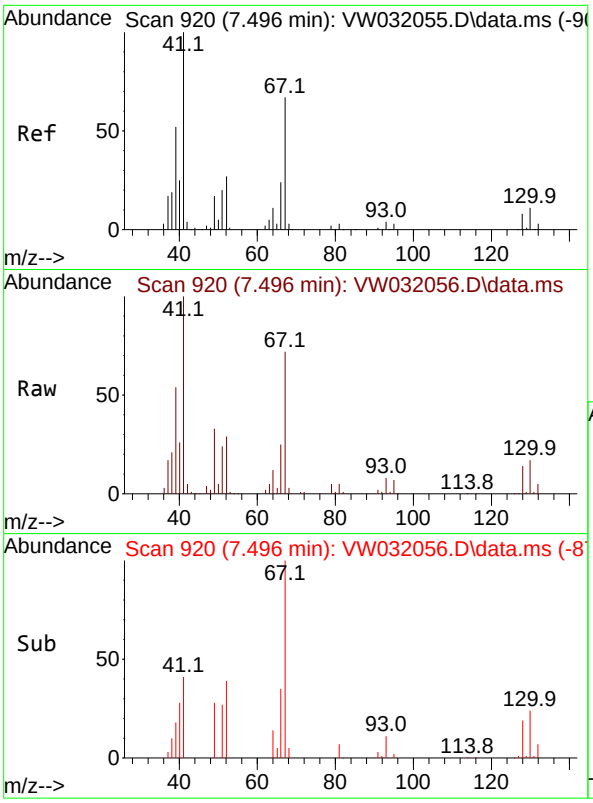




#40
Benzene
Concen: 96.444 ug/l
RT: 8.331 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 78 Resp: 1160107

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.0 | 18.4 | 27.6 |

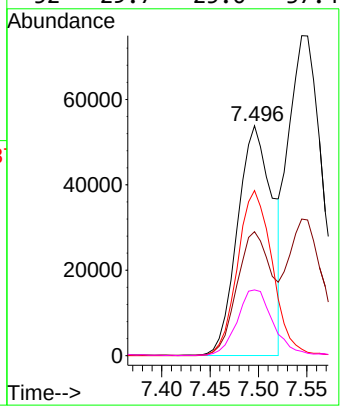





#41
Methacrylonitrile
Concen: 105.048 ug/l
RT: 7.496 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 41 Resp: 13577

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 53.6 | 42.6 | 63.8 |
| 67 | 71.7 | 61.0 | 91.4 |
| 52 | 29.7 | 25.0 | 37.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

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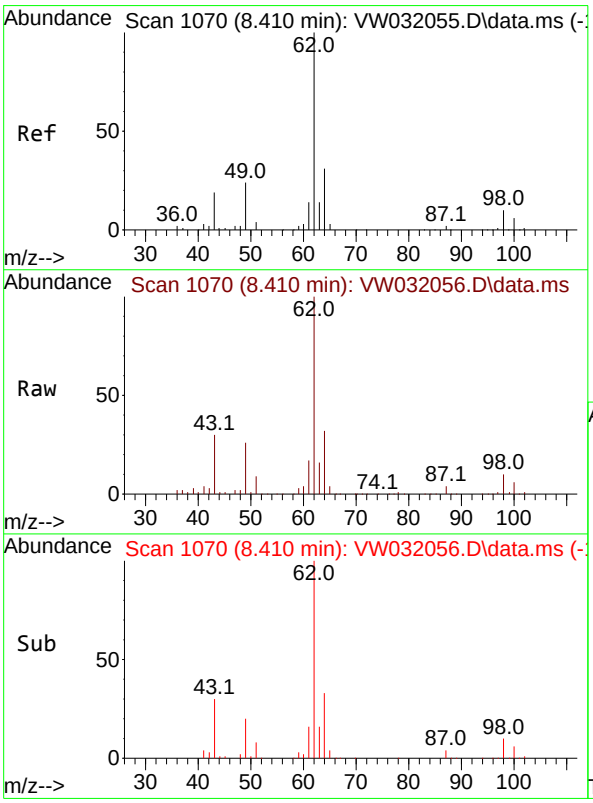
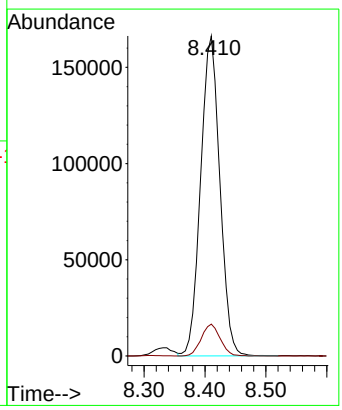
Supervised By :Semsettin Yesilyurt 08/12/2025

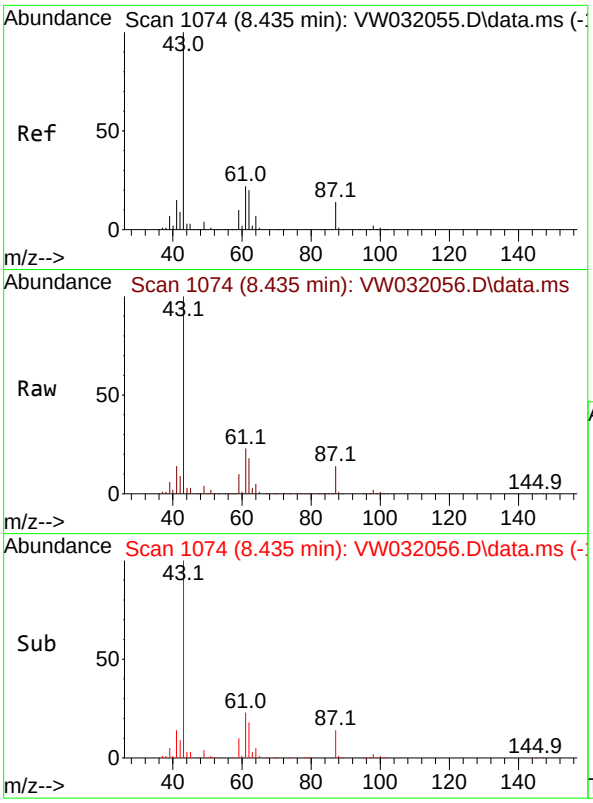



#42
1,2-Dichloroethane
Concen: 94.743 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 62 Resp: 364674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.8 | 0.0 | 19.8 |

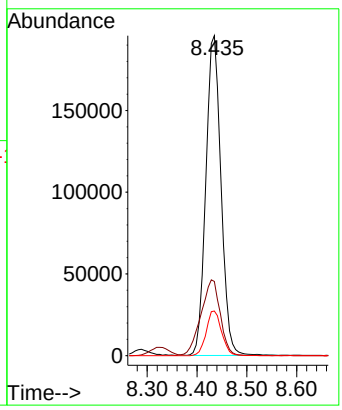





#43
Isopropyl Acetate
Concen: 98.543 ug/l
RT: 8.435 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 43 Resp: 41321

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 30.0 | 23.8 | 35.8 |
| 87 | 14.2 | 11.7 | 17.5 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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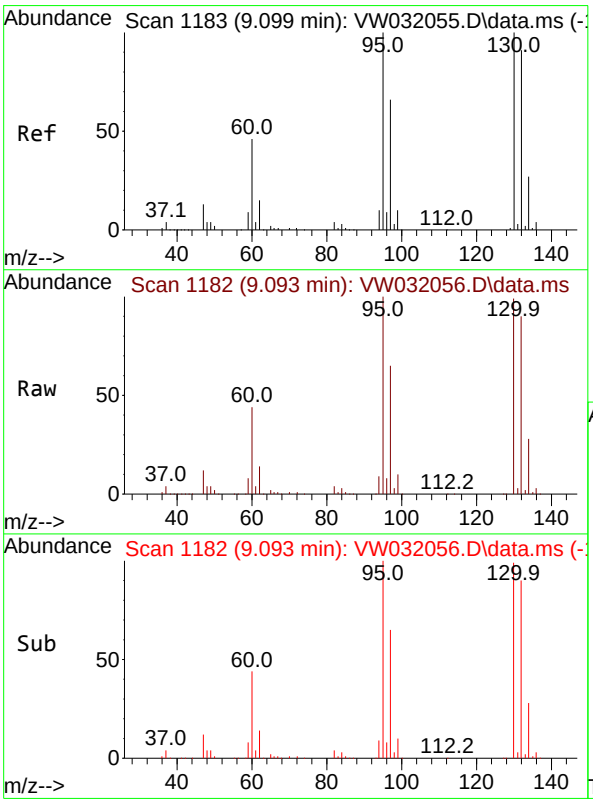
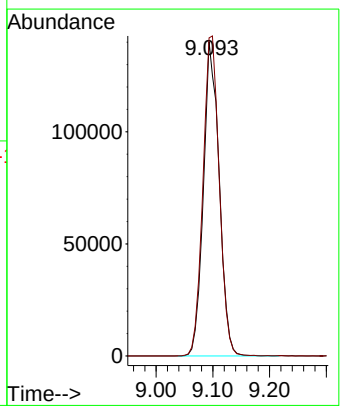
Supervised By :Semsettin Yesilyurt 08/12/2025

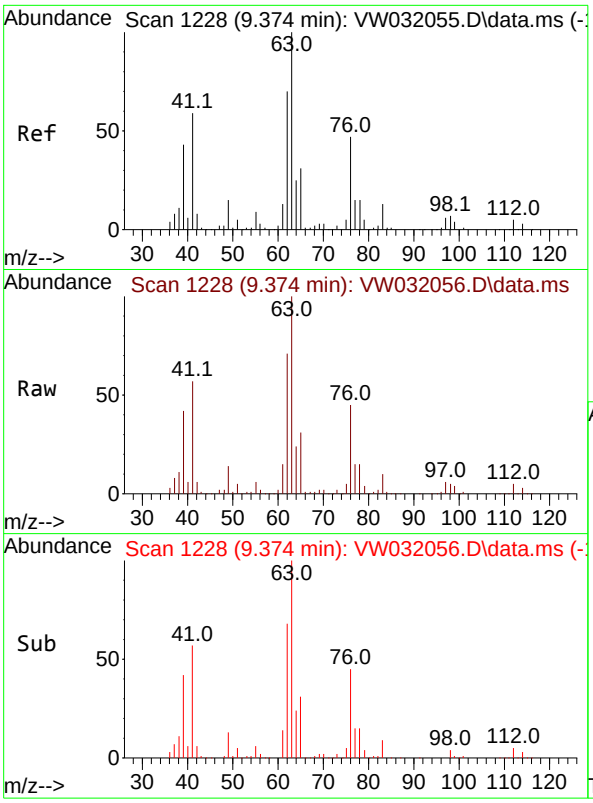



#44
Trichloroethene
Concen: 94.602 ug/l
RT: 9.093 min Scan# 1182
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:130 Resp: 270995

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 101.2 | 0.0 | 200.6 |

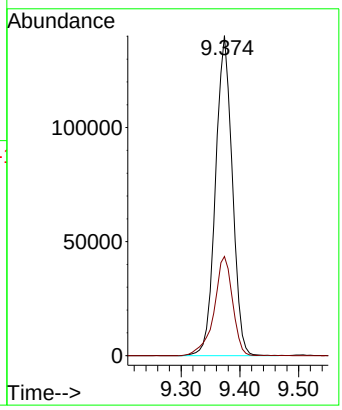





#45
1,2-Dichloropropane
Concen: 95.707 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 63 Resp: 27812

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.0 | 24.6 | 36.8 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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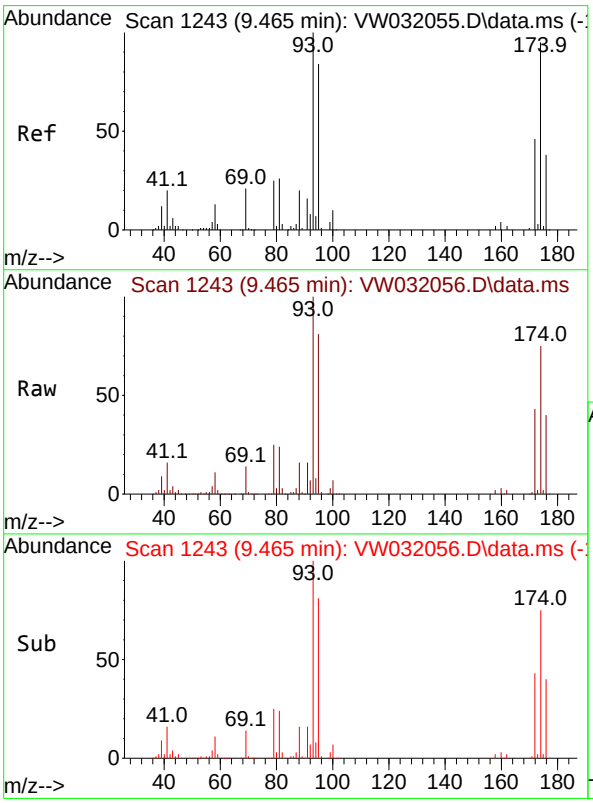
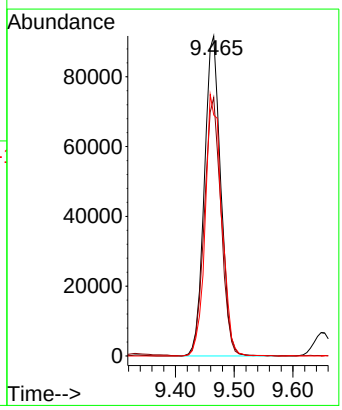
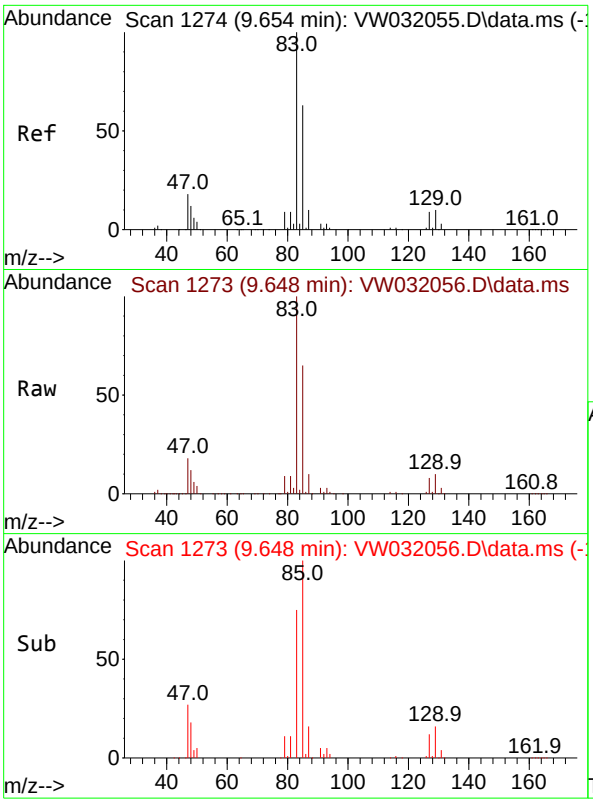



#46
Dibromomethane
Concen: 94.888 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 93 Resp: 177966

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 81.7 | 65.3 | 97.9 |
| 174 | 82.0 | 68.6 | 102.8 |

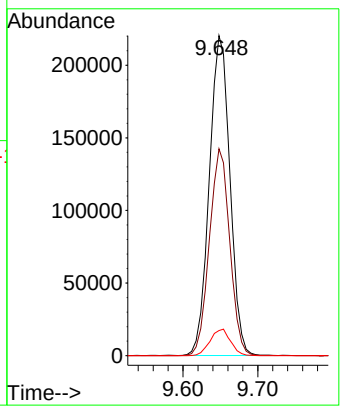





#47
Bromodichloromethane
Concen: 97.867 ug/l
RT: 9.648 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 83 Resp: 42295

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.7 | 50.6 | 75.8 |
| 127 | 7.9 | 6.9 | 10.3 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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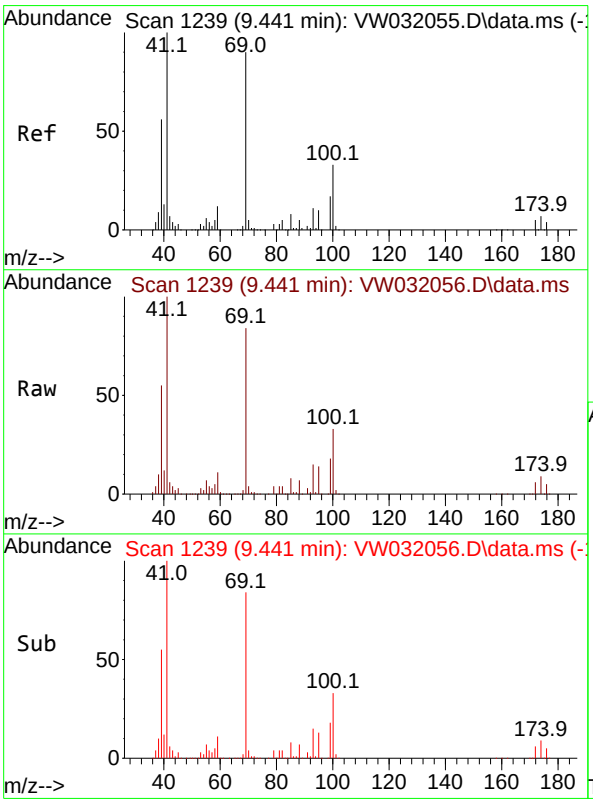
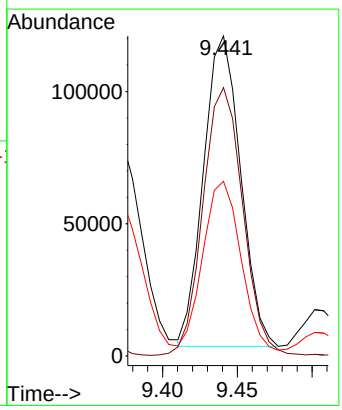
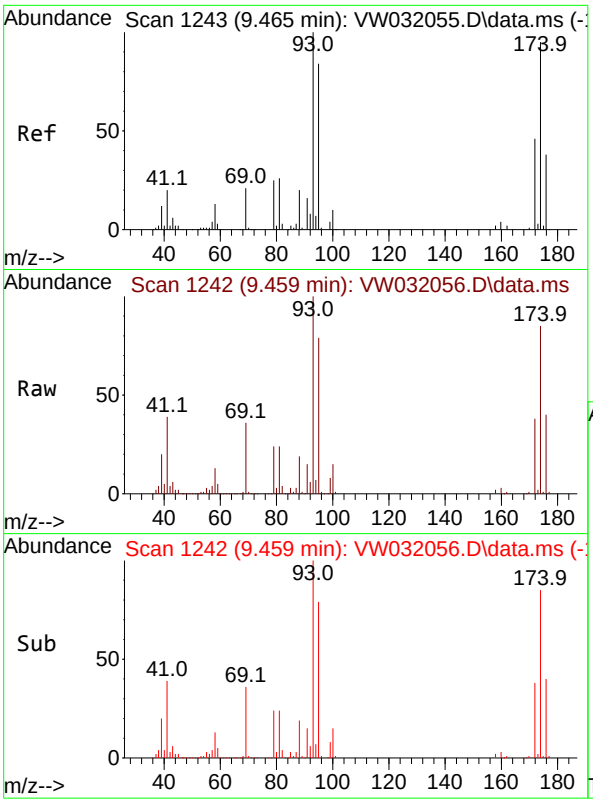



#48
Methyl methacrylate
Concen: 100.098 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 41 Resp: 202632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 93.5 | 73.0 | 109.6 |
| 39 | 55.0 | 45.0 | 67.4 |

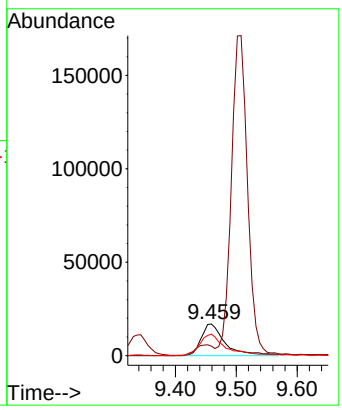





#49
1,4-Dioxane
Concen: 1912.696 ug/l
RT: 9.459 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 88 Resp: 4638

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 25.4 | 20.6 | 30.8 |
| 58 | 75.0 | 60.4 | 90.6 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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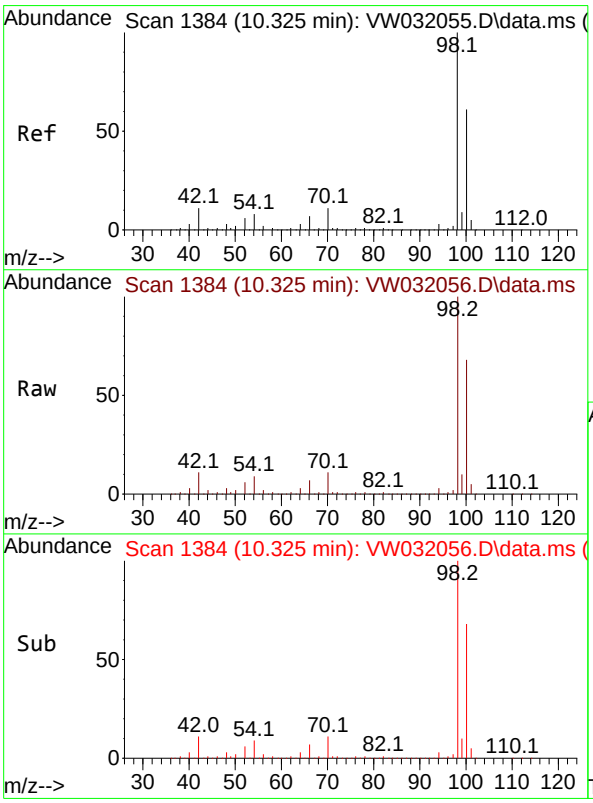
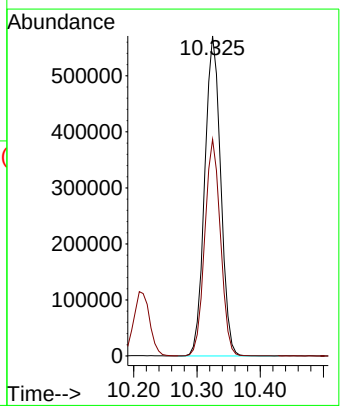
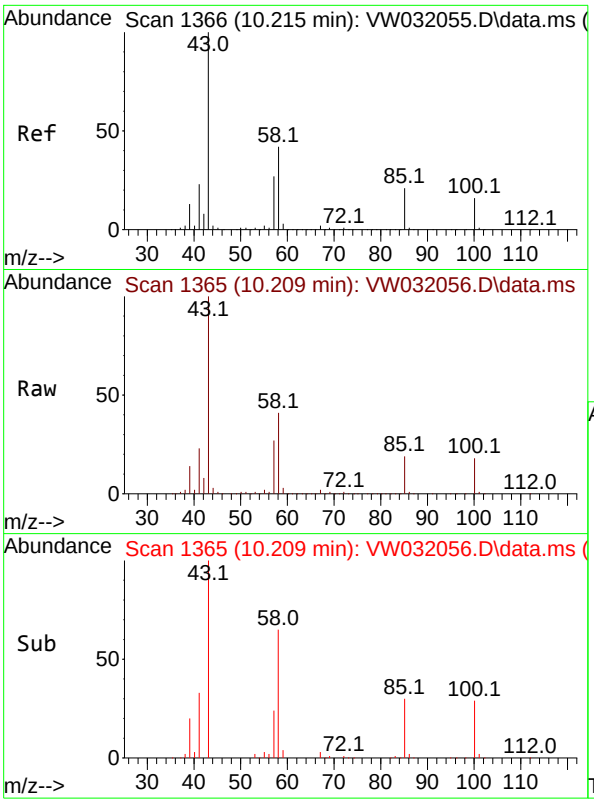



#50
Toluene-d8
Concen: 99.078 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 98 Resp: 1005940

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.3 | 51.1 | 76.7 |

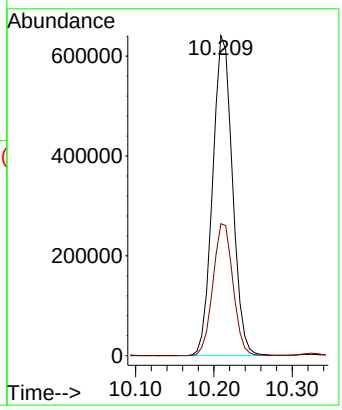





#51
4-Methyl-2-Pentanone
Concen: 476.209 ug/l
RT: 10.209 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 43 Resp: 112708

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 41.9 | 33.1 | 49.7 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

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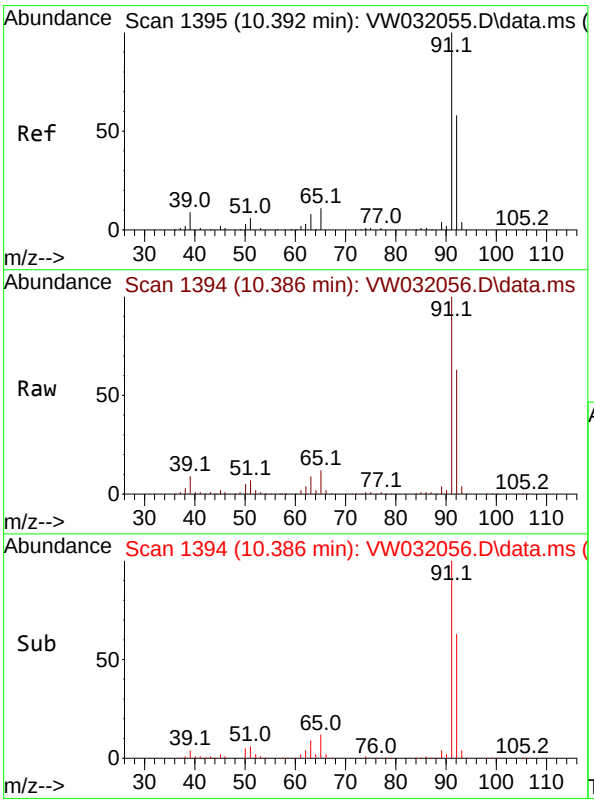
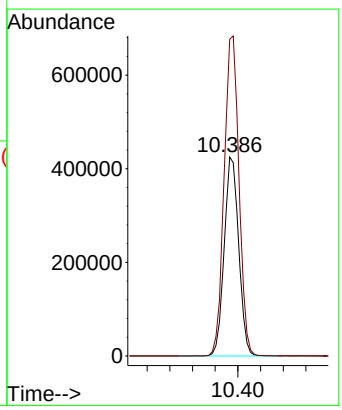
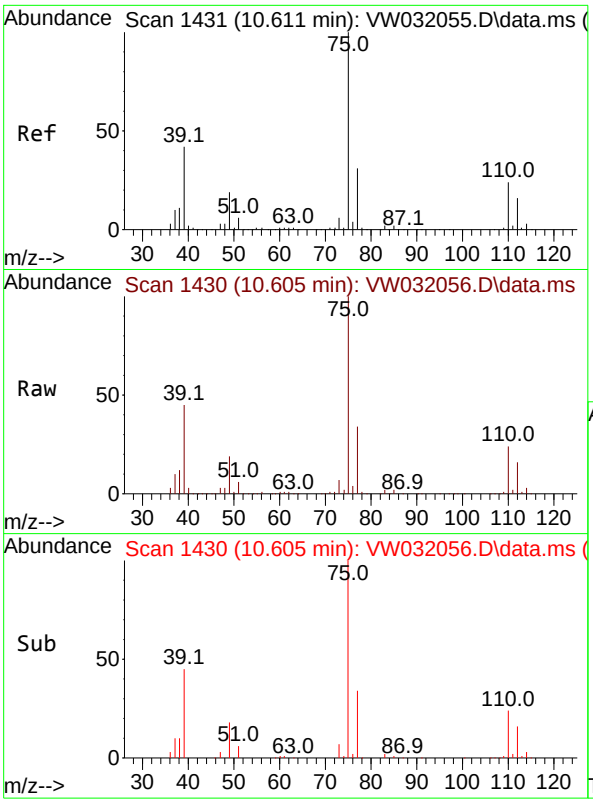



#52
Toluene
Concen: 99.464 ug/l
RT: 10.386 min Scan# 1394
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 92 Resp: 753592

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 165.0 | 136.3 | 204.5 |

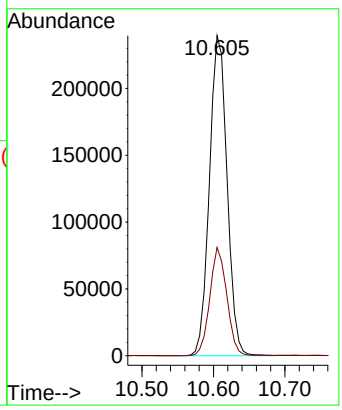





#53
t-1,3-Dichloropropene
Concen: 101.442 ug/l
RT: 10.605 min Scan# 14
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 75 Resp: 41073

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 33.8 | 25.0 | 37.6 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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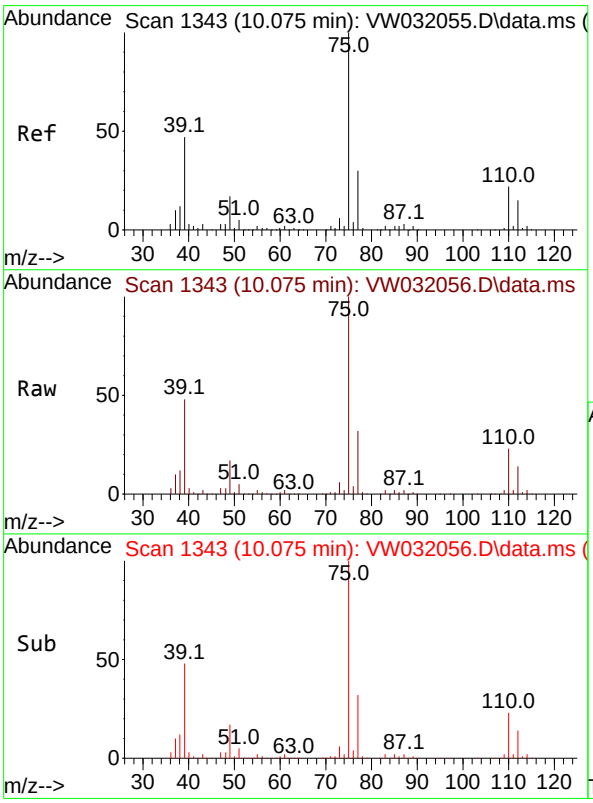
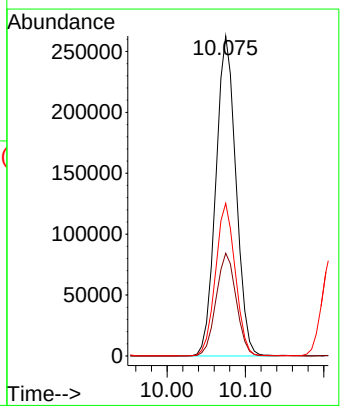
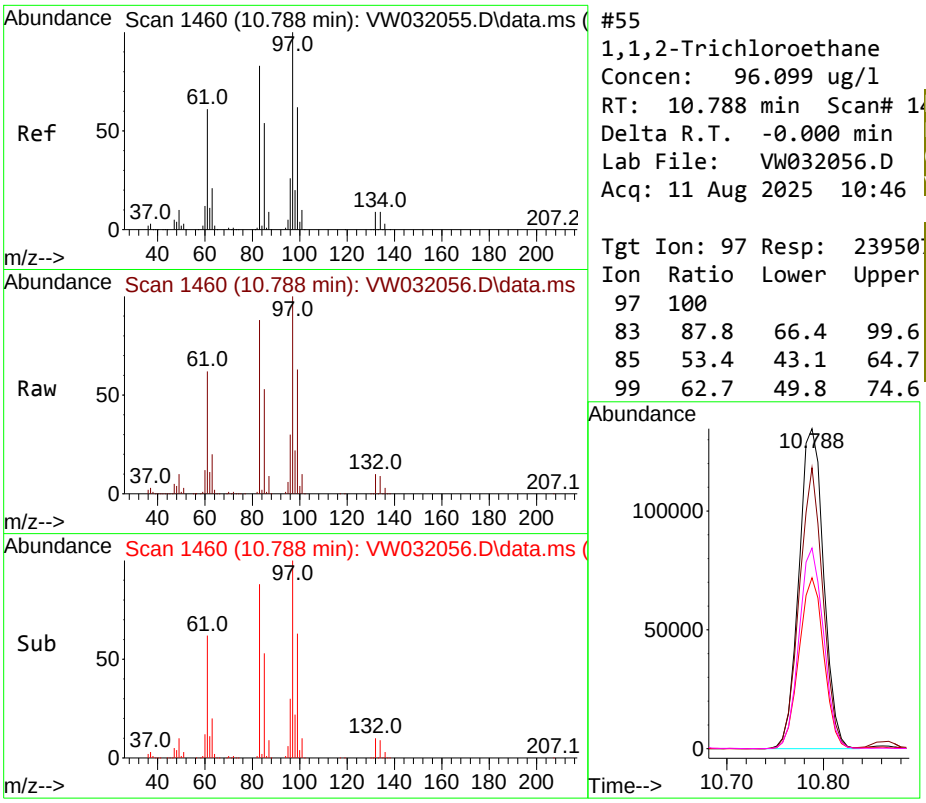



#54
cis-1,3-Dichloropropene
Concen: 102.096 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 75 Resp: 468972

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.1 | 24.0 | 36.0 |
| 39 | 47.6 | 37.8 | 56.8 |






#55
1,1,2-Trichloroethane
Concen: 96.099 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 97 Resp: 23950

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 87.8 | 66.4 | 99.6 |
| 85 | 53.4 | 43.1 | 64.7 |
| 99 | 62.7 | 49.8 | 74.6 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

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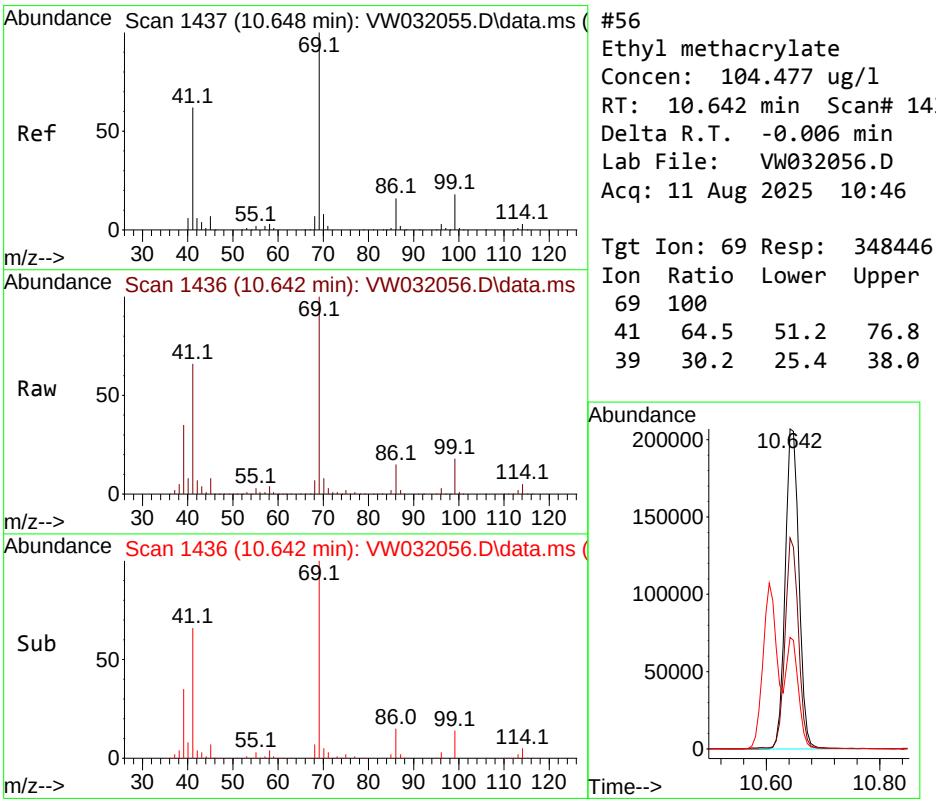
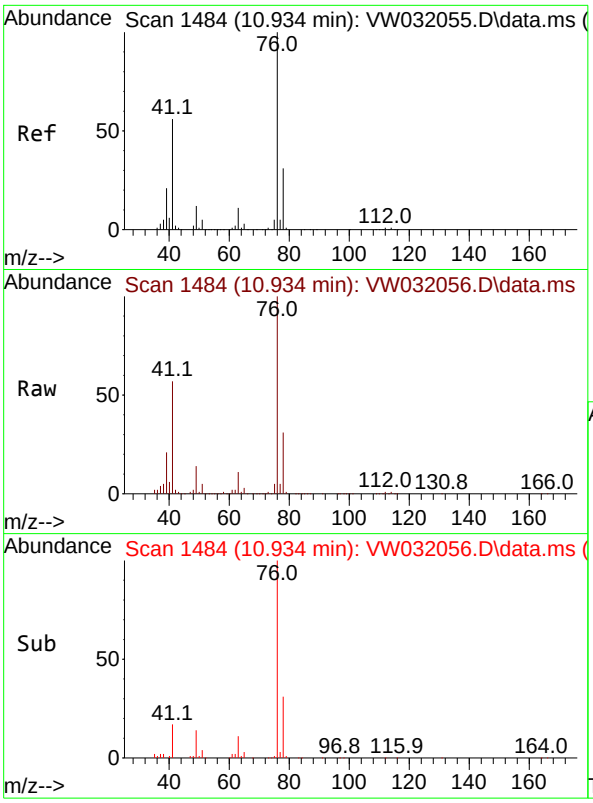



#56
Ethyl methacrylate
Concen: 104.477 ug/l
RT: 10.642 min Scan# 1436
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 69 Resp: 348446

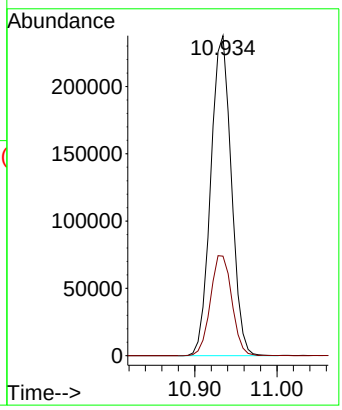
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 64.5 | 51.2 | 76.8 |
| 39 | 30.2 | 25.4 | 38.0 |




#57
1,3-Dichloropropane
Concen: 95.056 ug/l
RT: 10.934 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 76 Resp: 41294

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.7 | 25.8 | 38.6 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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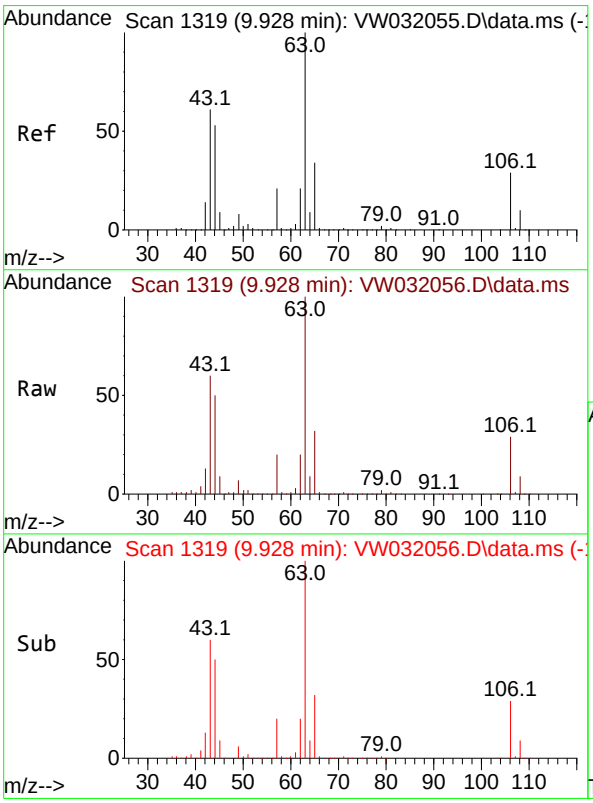
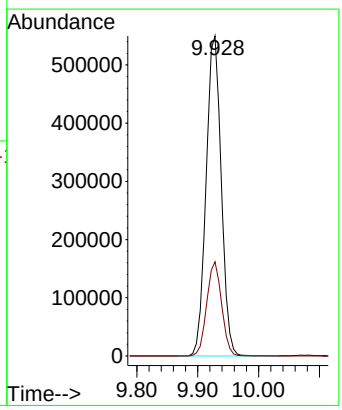
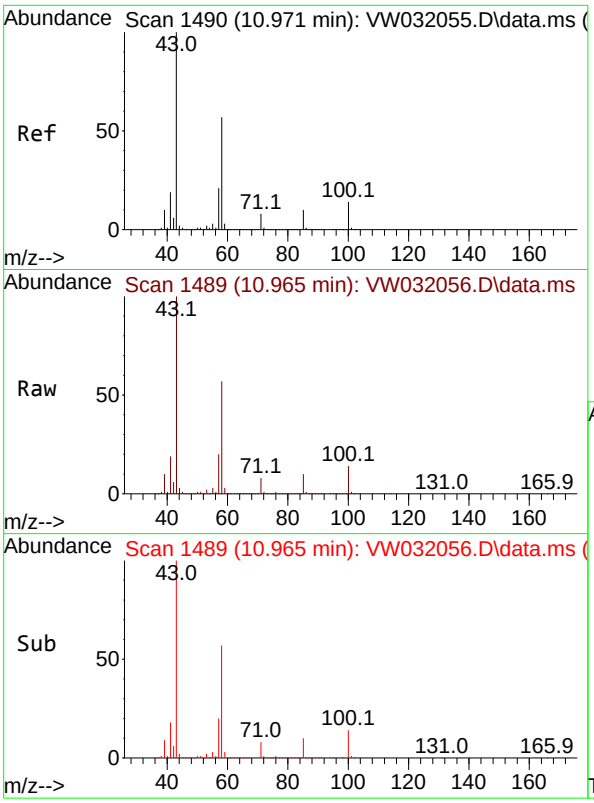



#58
2-Chloroethyl Vinyl ether
Concen: 513.956 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 63 Resp: 948129

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 28.9 | 23.5 | 35.3 |

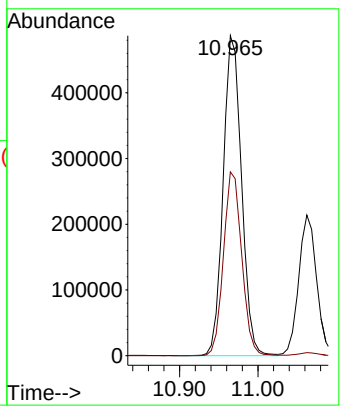





#59
2-Hexanone
Concen: 484.283 ug/l
RT: 10.965 min Scan# 14
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 43 Resp: 79381

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 57.2 | 28.3 | 85.0 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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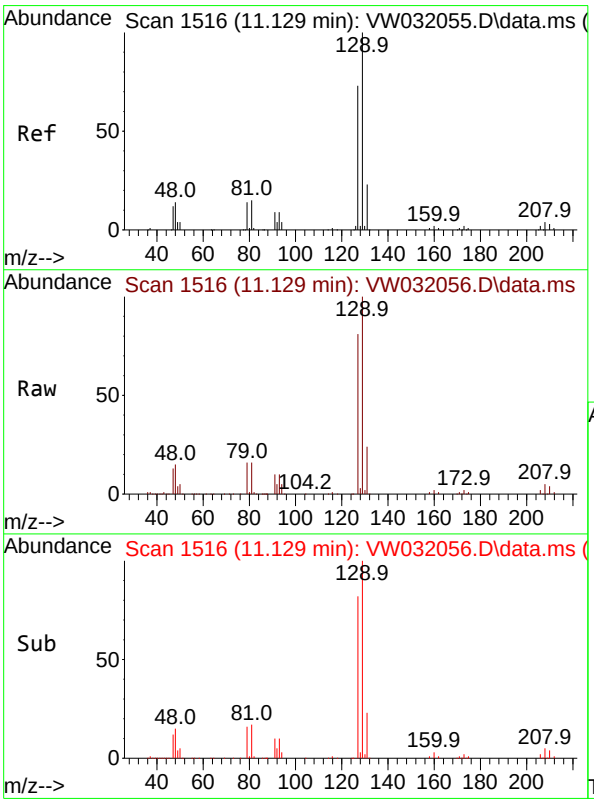
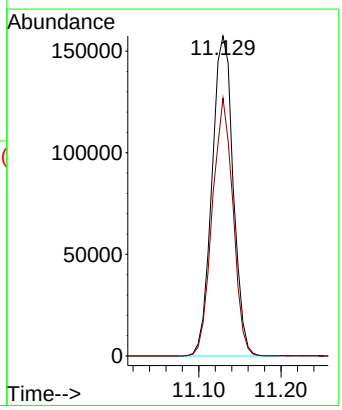
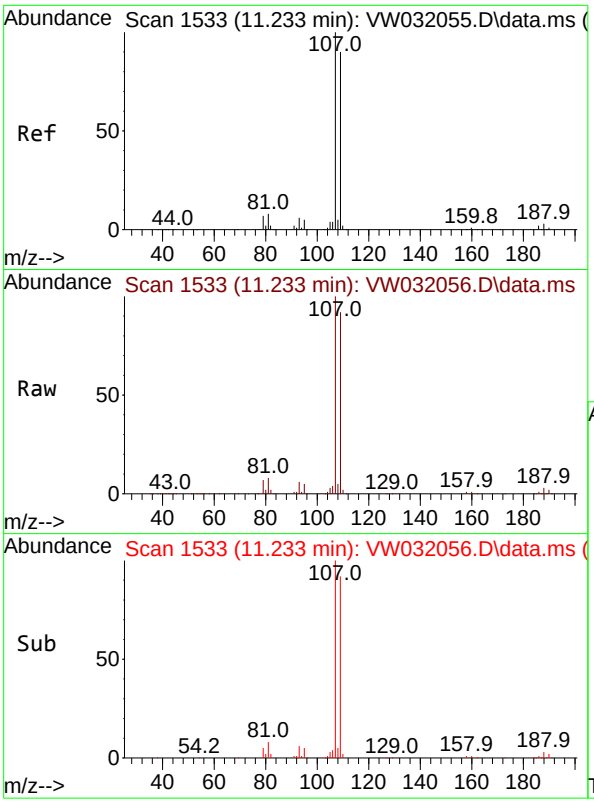



#60
Dibromochloromethane
Concen: 99.074 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:129 Resp: 282060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.5 | 39.0 | 116.9 |

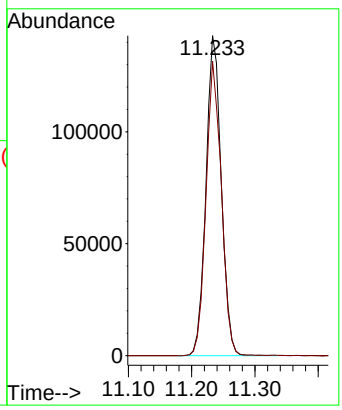





#61
1,2-Dibromoethane
Concen: 99.317 ug/l
RT: 11.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:107 Resp: 24054

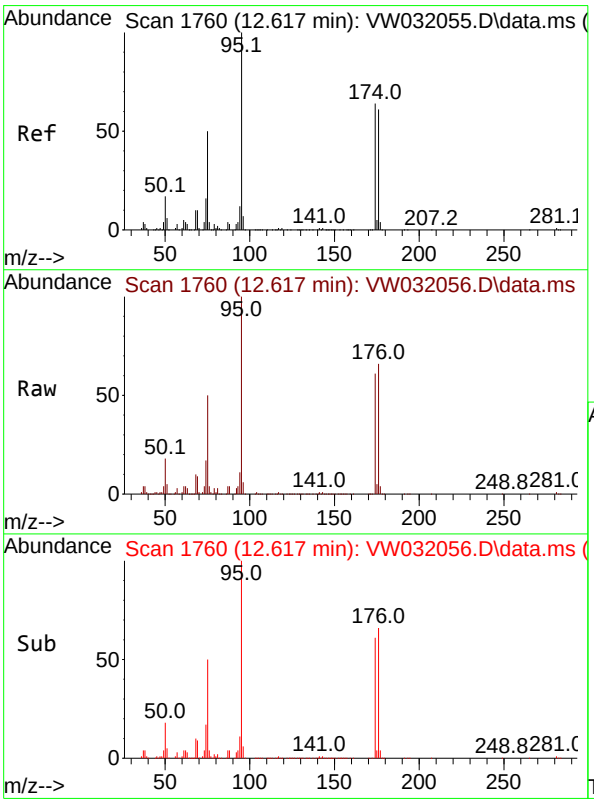
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 92.1 | 74.2 | 111.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

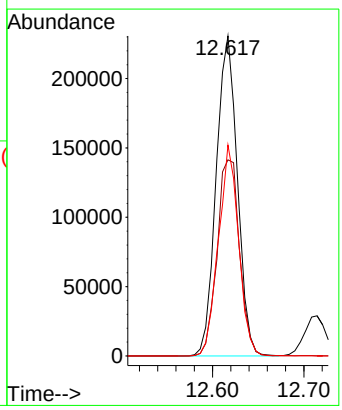
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

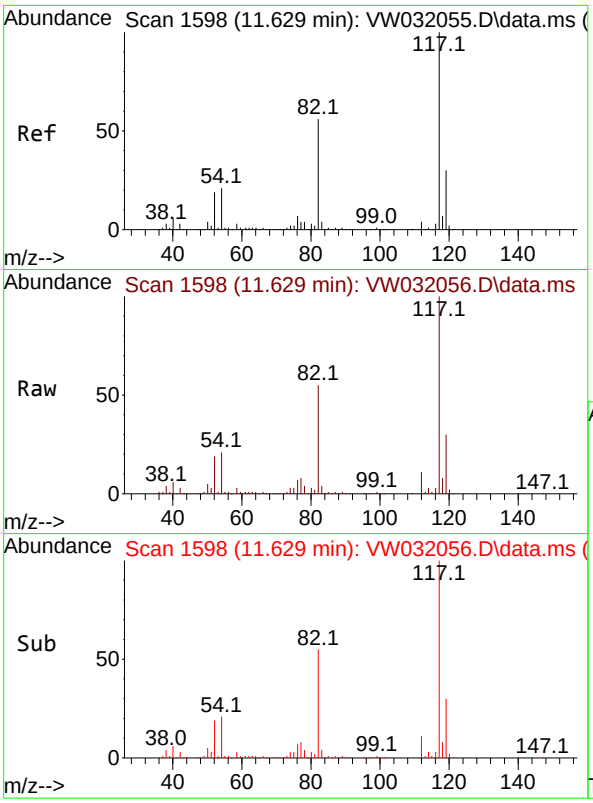



#62
4-Bromofluorobenzene
Concen: 99.536 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 95 Resp: 372416

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 65.2 | 0.0 | 129.0 |
| 176 | 62.8 | 0.0 | 124.6 |

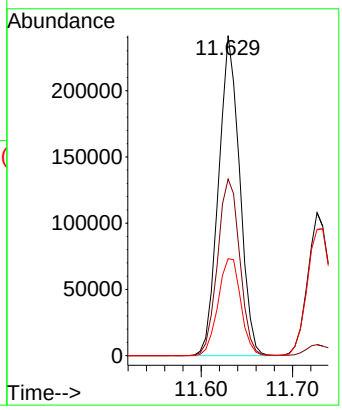





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:117 Resp: 38770

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 55.2 | 45.0 | 67.4 |
| 119 | 30.3 | 24.2 | 36.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
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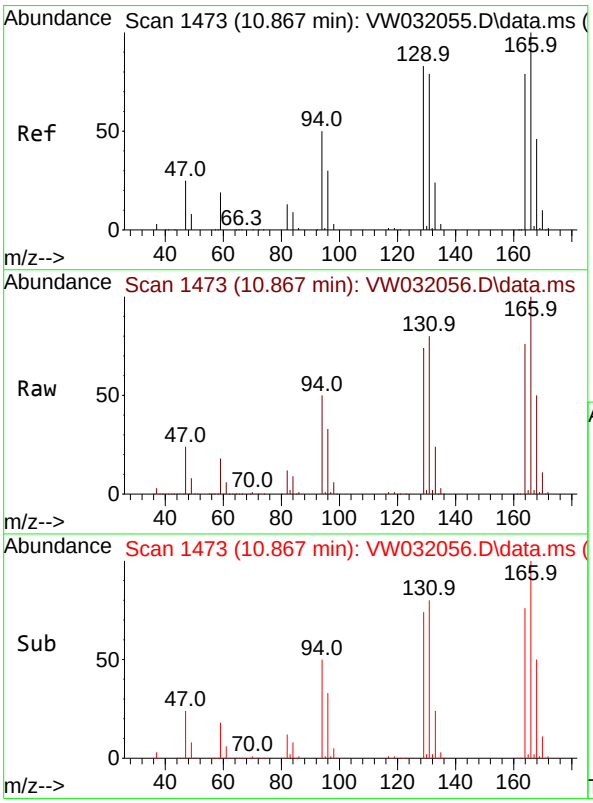
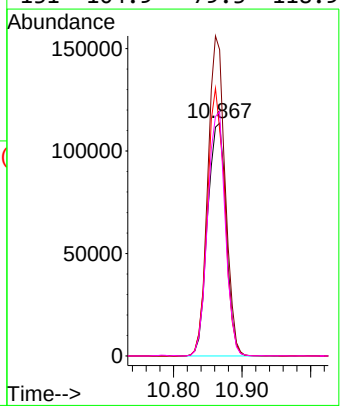
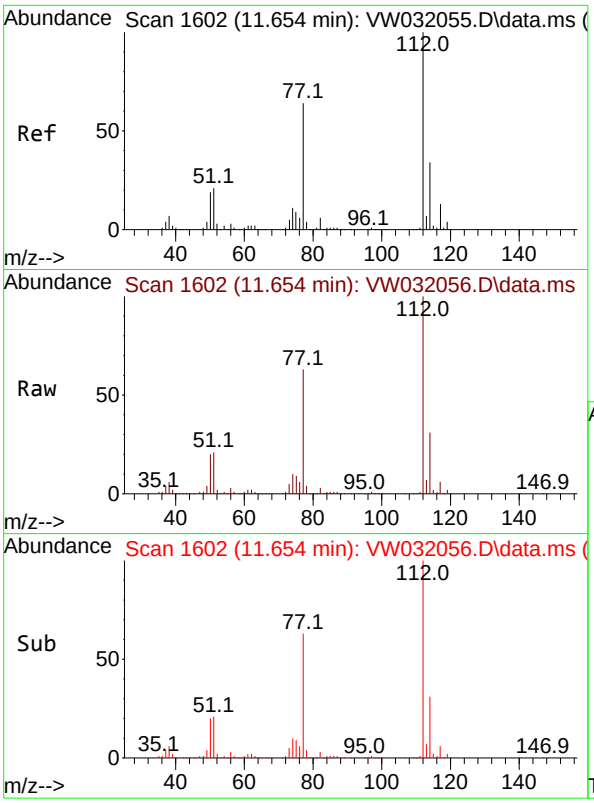



#64
Tetrachloroethene
Concen: 95.247 ug/l
RT: 10.867 min Scan# 1473
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:164 Resp: 213297

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 131.5 | 100.9 | 151.3 |
| 129 | 97.3 | 83.6 | 125.4 |
| 131 | 104.9 | 79.3 | 118.9 |

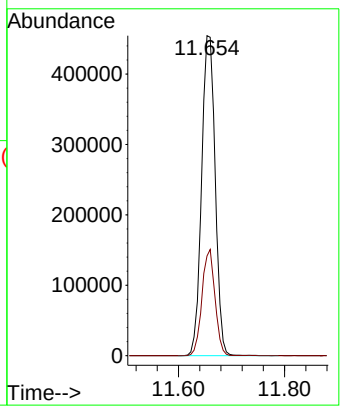





#65
Chlorobenzene
Concen: 95.819 ug/l
RT: 11.654 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:112 Resp: 80860

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.1 | 26.9 | 40.3 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
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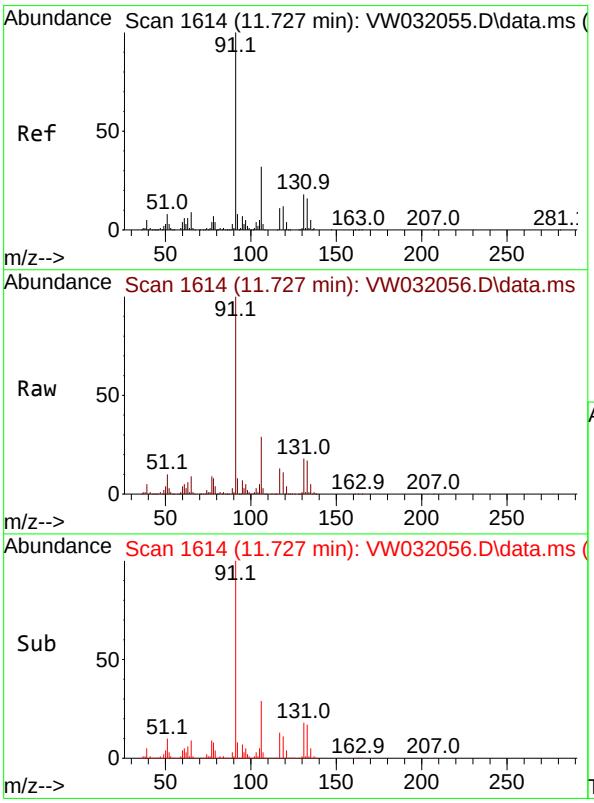
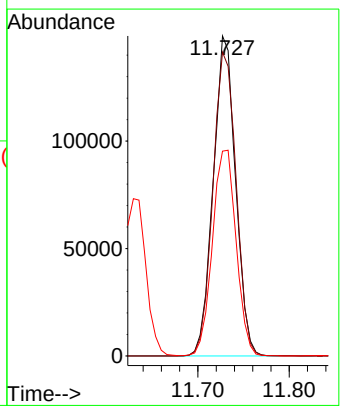
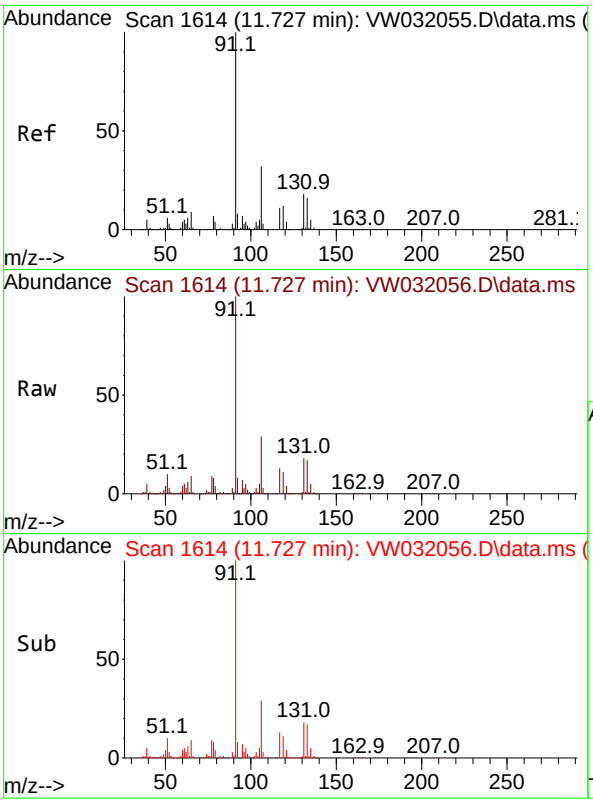



#66
1,1,1,2-Tetrachloroethane
Concen: 96.197 ug/l
RT: 11.727 min Scan# 1614
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:131 Resp: 253284

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 98.6 | 47.3 | 142.0 |
| 119 | 68.3 | 34.5 | 103.5 |

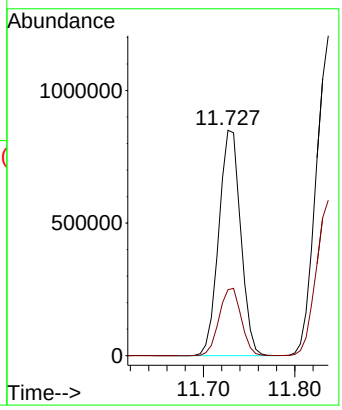





#67
Ethyl Benzene
Concen: 99.243 ug/l
RT: 11.727 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 91 Resp: 141861

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.3 | 25.4 | 38.0 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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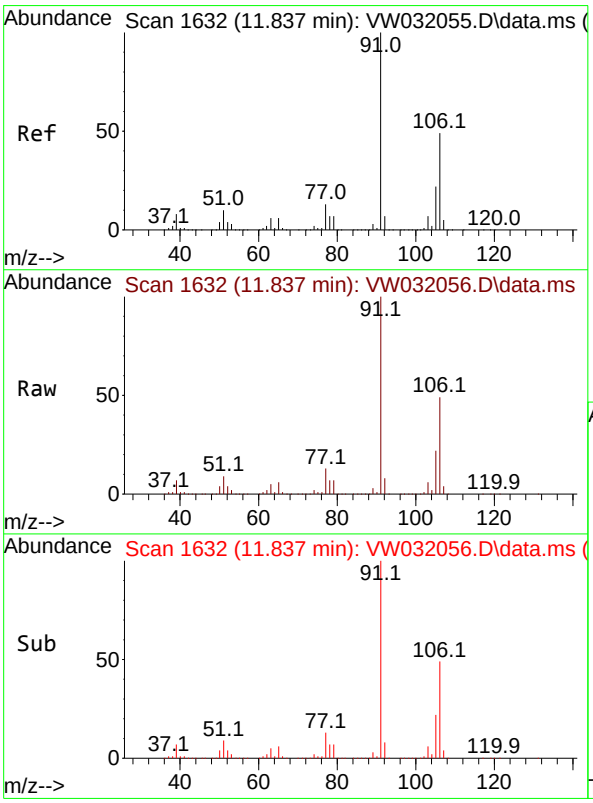
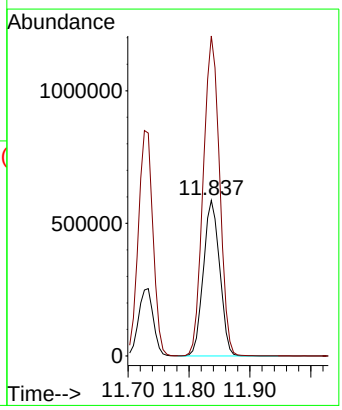
Supervised By :Semsettin Yesilyurt 08/12/2025

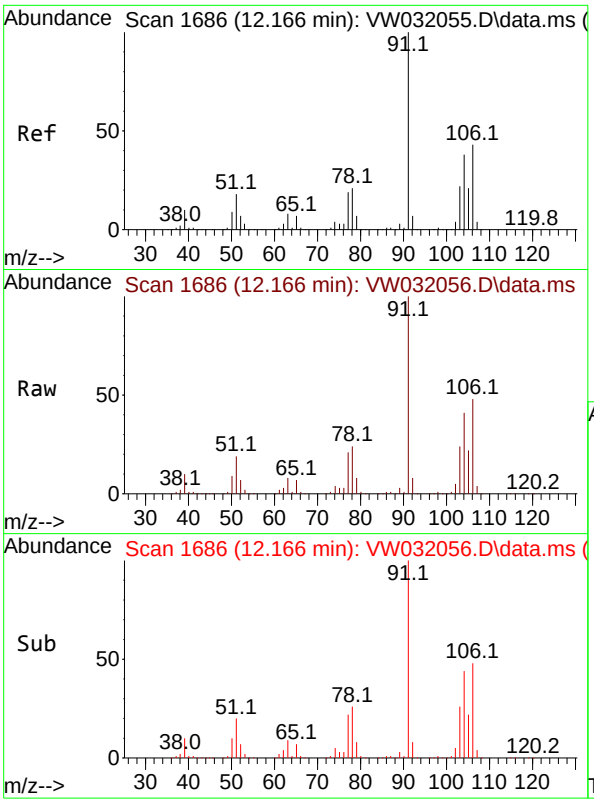



#68
m/p-Xylenes
Concen: 197.459 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:106 Resp: 1089143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 206.7 | 162.2 | 243.2 |

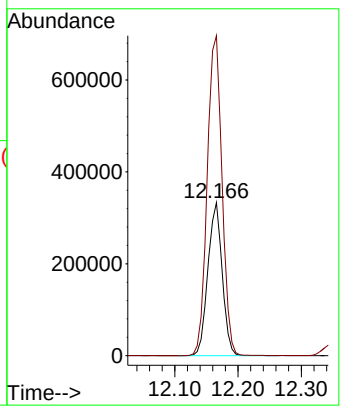





#69
o-Xylene
Concen: 102.652 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:106 Resp: 52332

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 216.8 | 110.8 | 332.3 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

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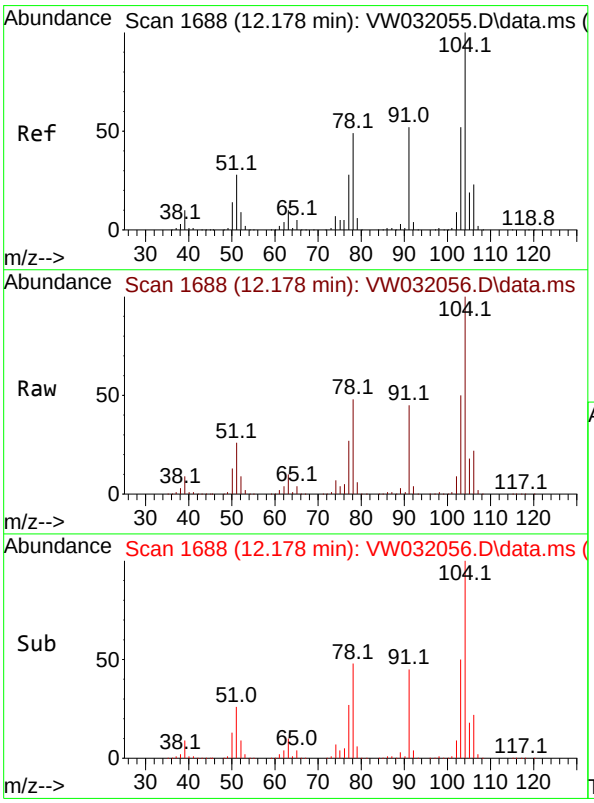
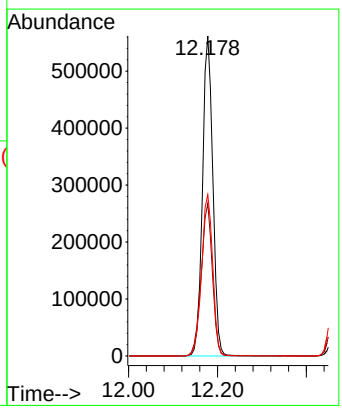
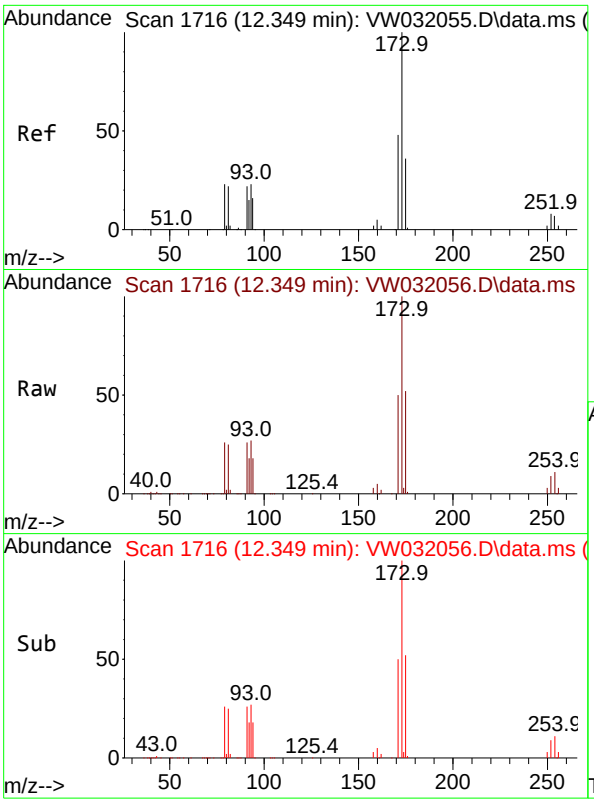



#70
Styrene
Concen: 101.158 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:104 Resp: 916019

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 51.3 | 41.2 | 61.8 |
| 103 | 54.3 | 43.8 | 65.8 |

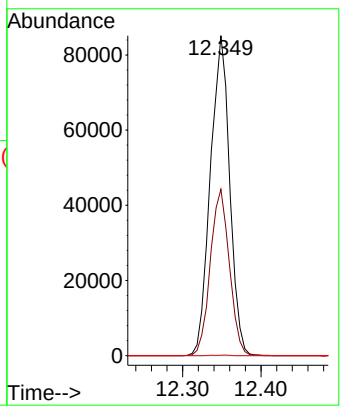





#71
Bromoform
Concen: 96.794 ug/l
RT: 12.349 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:173 Resp: 14578

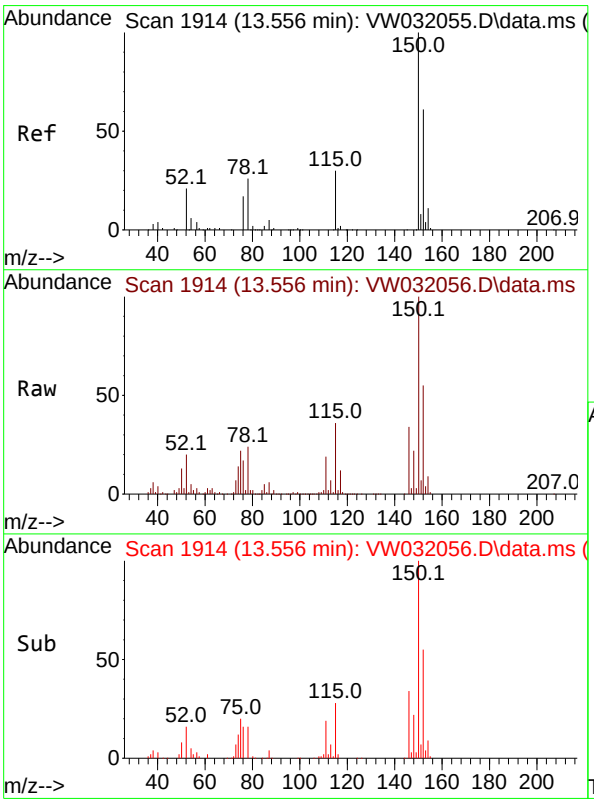
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 51.3 | 22.9 | 68.7 |
| 254 | 0.2 | 0.0 | 0.0 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

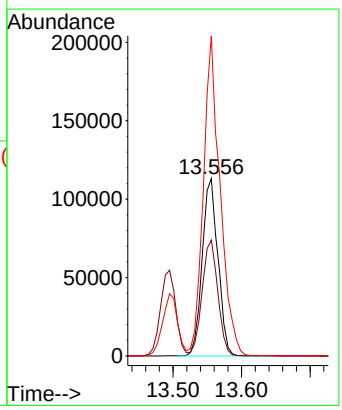
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

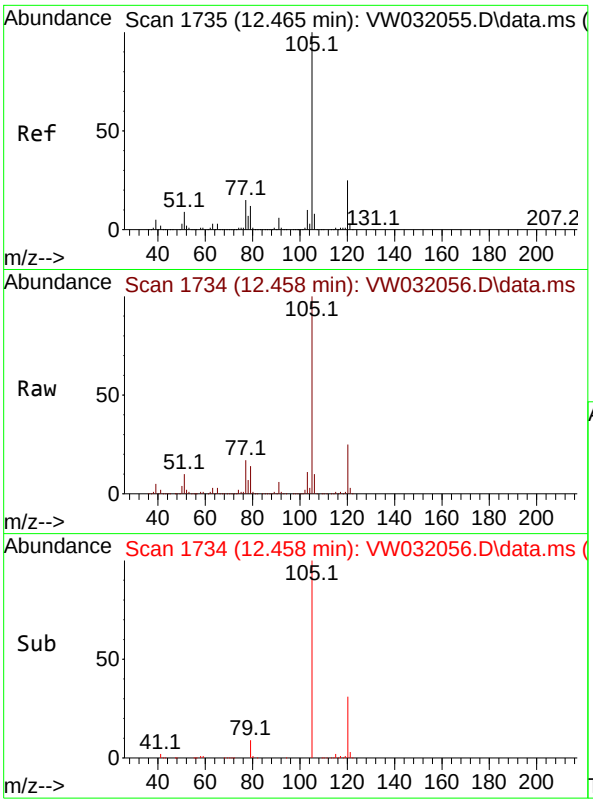



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:152 Resp: 180763

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 65.1 | 32.6 | 97.8 |
| 150 | 191.5 | 0.0 | 359.4 |

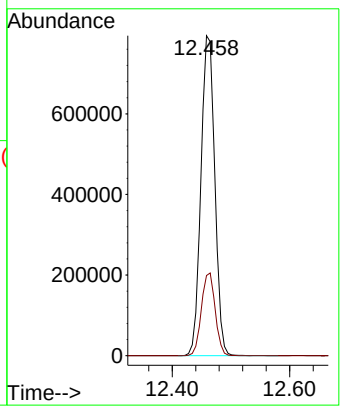





#73
Isopropylbenzene
Concen: 102.870 ug/l
RT: 12.458 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:105 Resp: 129953

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.7 | 12.8 | 38.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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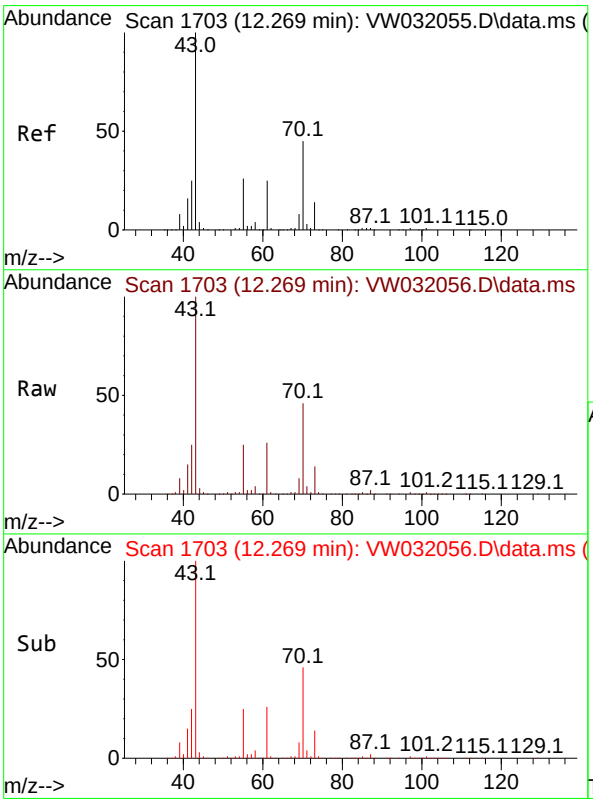
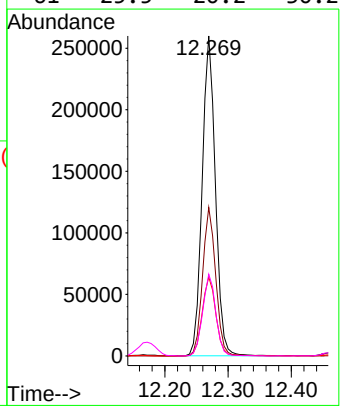
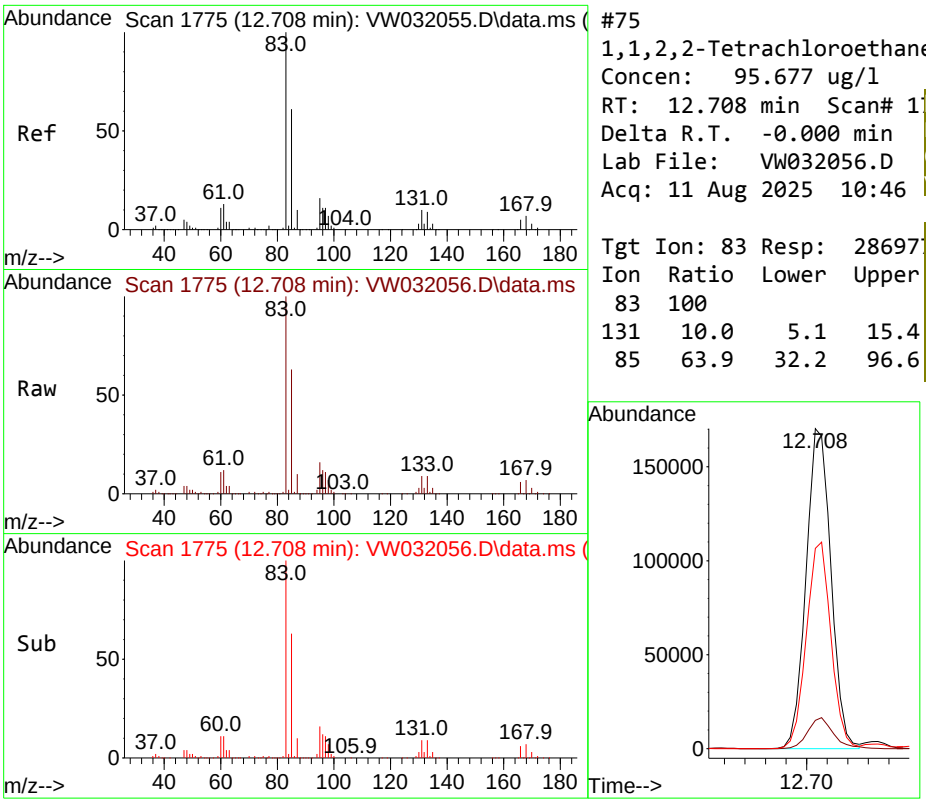



#74
N-amyl acetate
Concen: 104.494 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 43 Resp: 378722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 46.3 | 37.0 | 55.4 |
| 55 | 25.5 | 21.1 | 31.7 |
| 61 | 25.5 | 20.2 | 30.2 |






#75
1,1,2,2-Tetrachloroethane
Concen: 95.677 ug/l
RT: 12.708 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 83 Resp: 28697

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.0 | 5.1 | 15.4 |
| 85 | 63.9 | 32.2 | 96.6 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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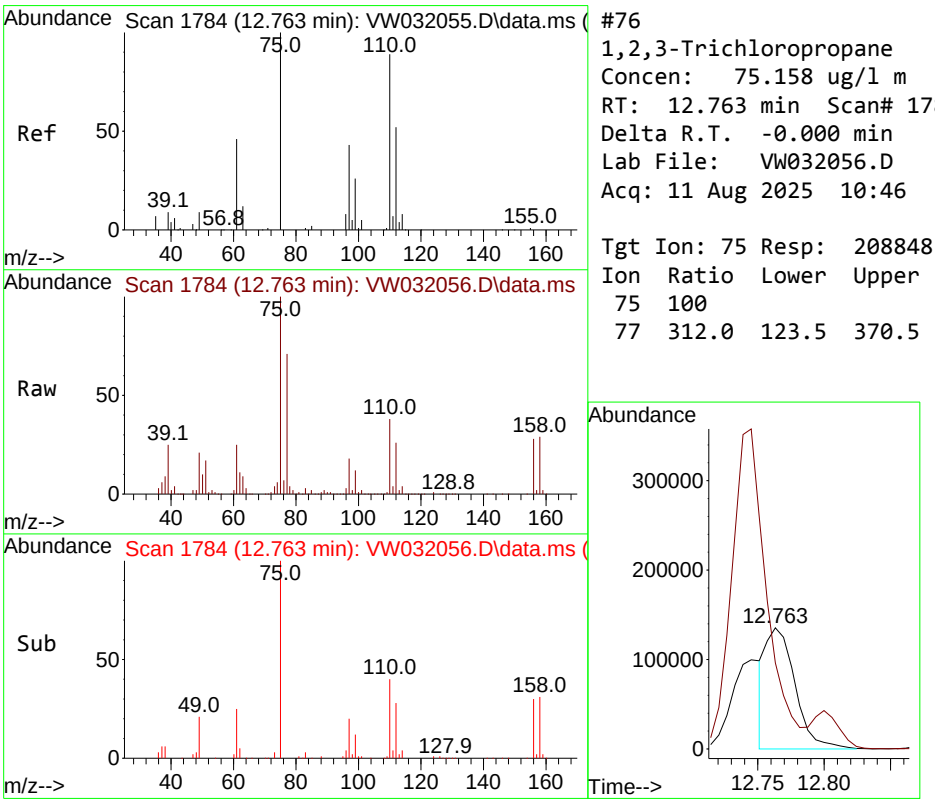
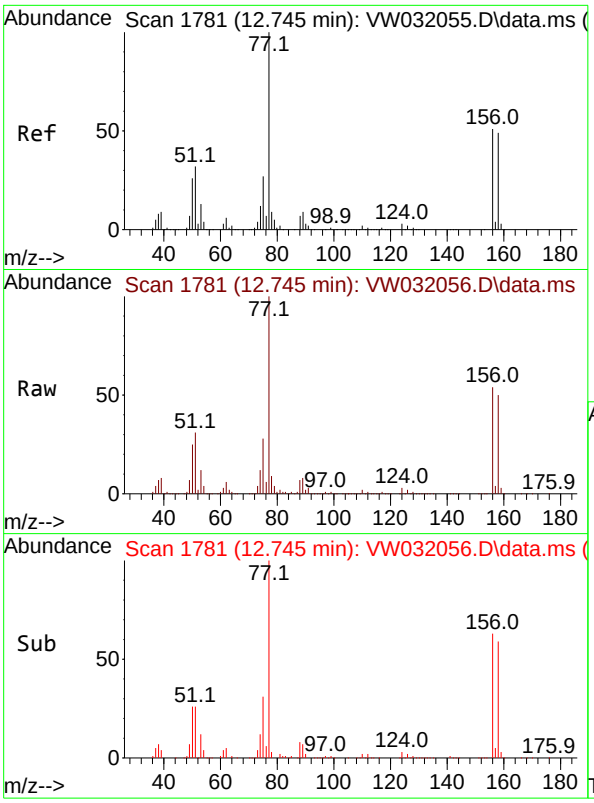



#76
1,2,3-Trichloropropane
Concen: 75.158 ug/l m
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 75 Resp: 208848

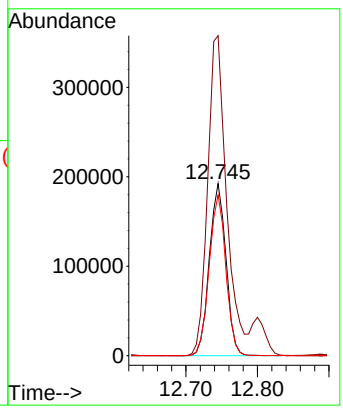
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 312.0 | 123.5 | 370.5 |




#77
Bromobenzene
Concen: 103.091 ug/l
RT: 12.745 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:156 Resp: 31104

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 209.5 | 108.7 | 326.3 |
| 158 | 93.4 | 48.3 | 144.9 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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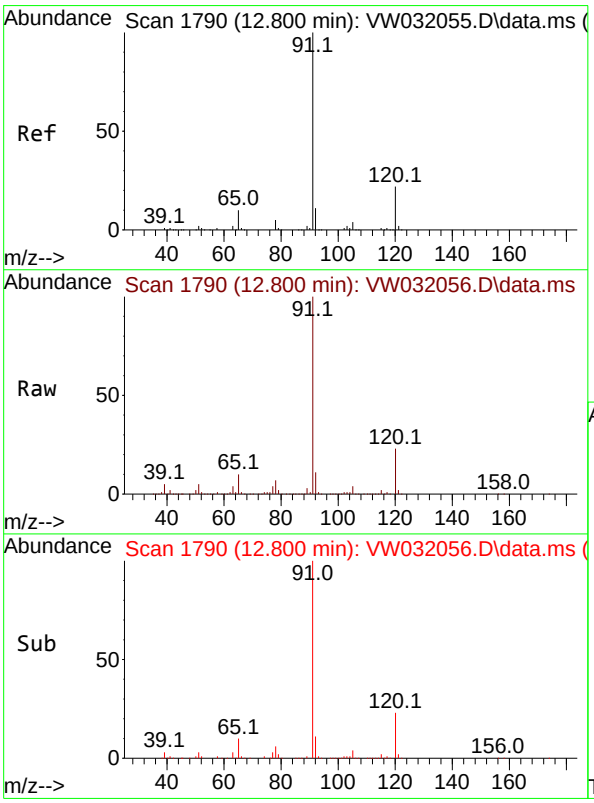
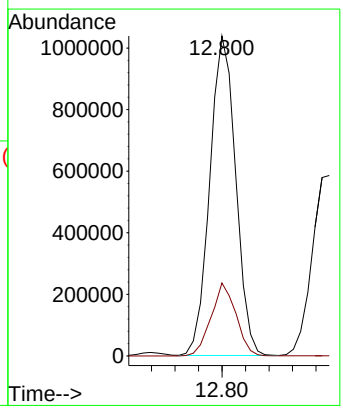
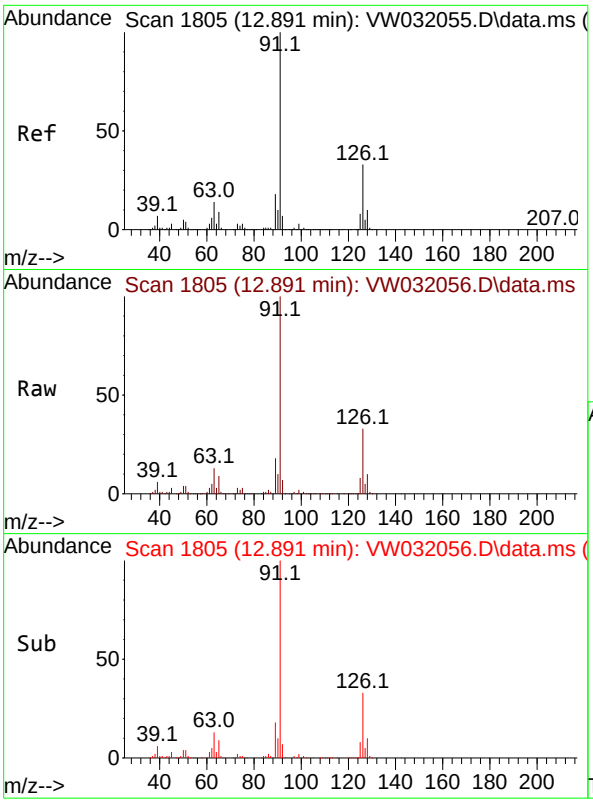



#78
n-propylbenzene
Concen: 102.177 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 91 Resp: 1589147

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 21.9 | 11.1 | 33.3 |

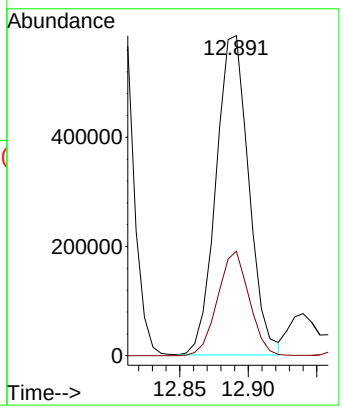





#79
2-Chlorotoluene
Concen: 101.505 ug/l
RT: 12.891 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 91 Resp: 97432

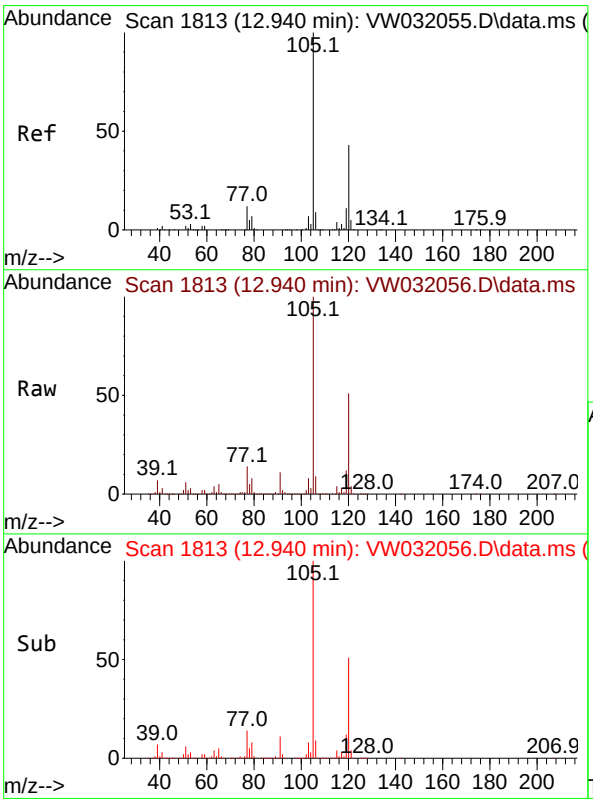
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.5 | 15.9 | 47.7 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

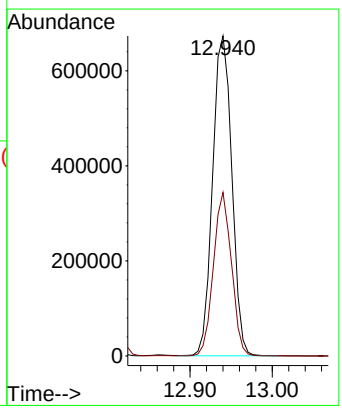
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

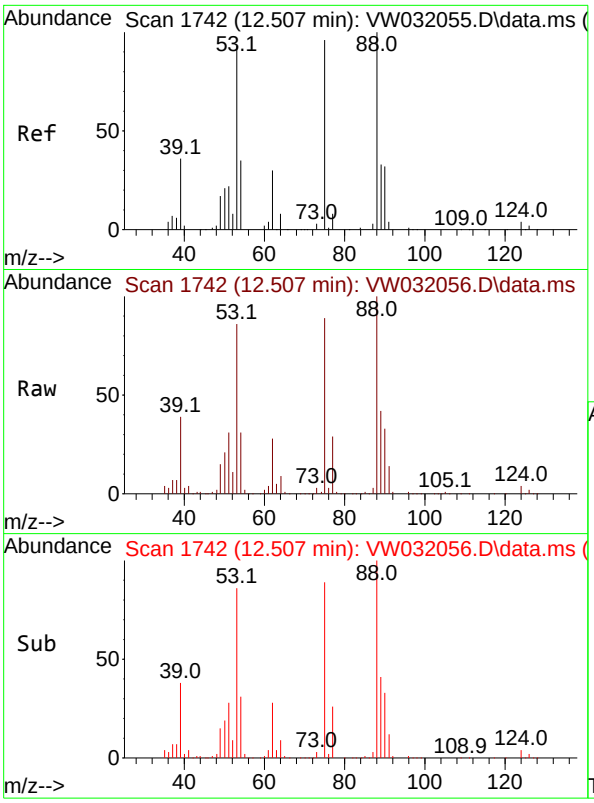



#80
1,3,5-Trimethylbenzene
Concen: 101.912 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:105 Resp: 1092987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.1 | 23.4 | 70.0 |






#81
trans-1,4-Dichloro-2-butene
Concen: 104.370 ug/l
RT: 12.507 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 75 Resp: 9890

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 99.2 | 81.0 | 121.6 |
| 89 | 46.2 | 37.3 | 55.9 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

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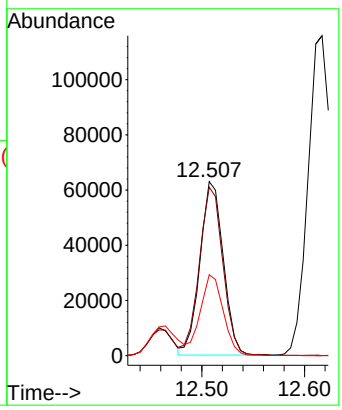
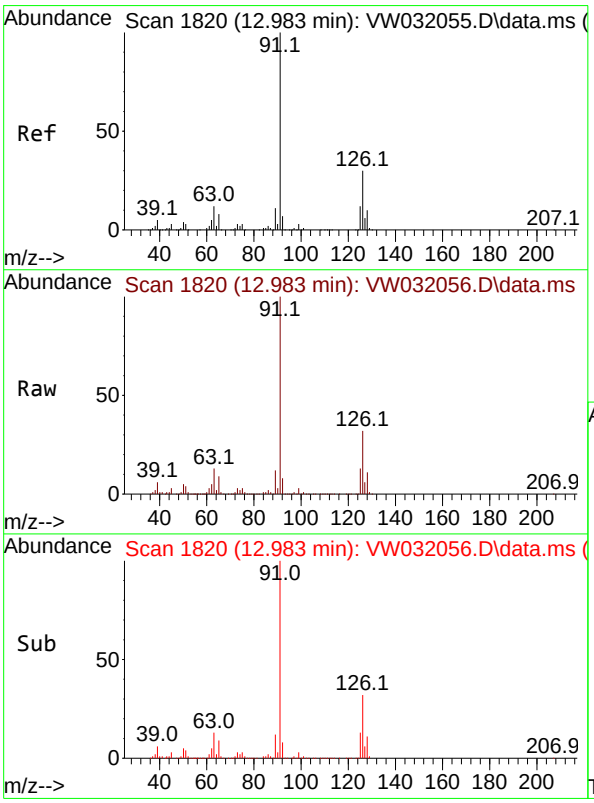
Supervised By :Semsettin Yesilyurt 08/12/2025

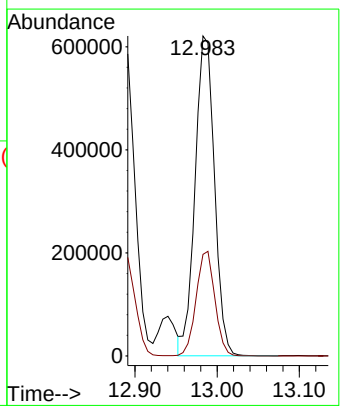


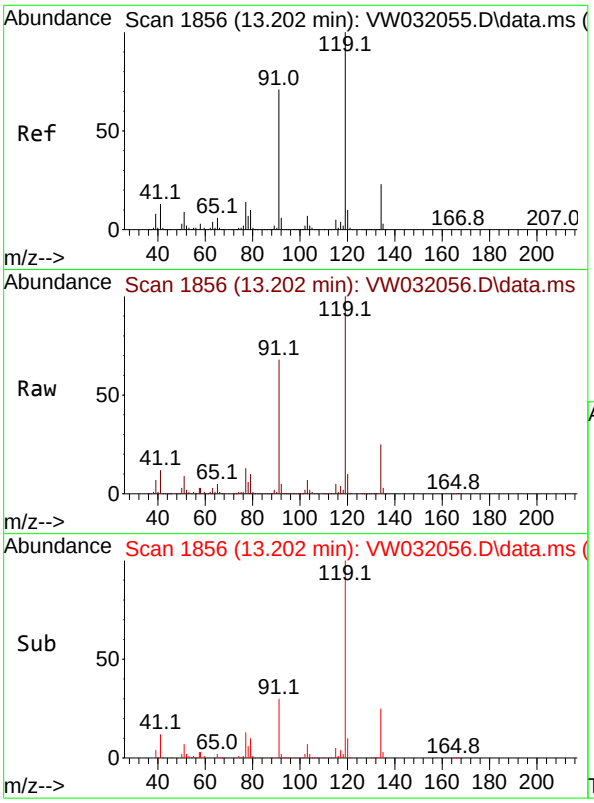




#82
4-Chlorotoluene
Concen: 99.412 ug/l
RT: 12.983 min Scan# 1820
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 91 Resp: 1013836

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.8 | 15.5 | 46.5 |

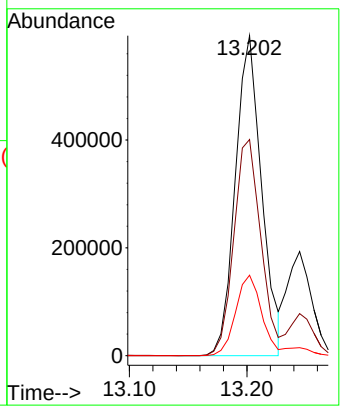





#83
tert-Butylbenzene
Concen: 103.591 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:119 Resp: 92204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 69.4 | 35.3 | 105.9 |
| 134 | 25.3 | 12.1 | 36.3 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

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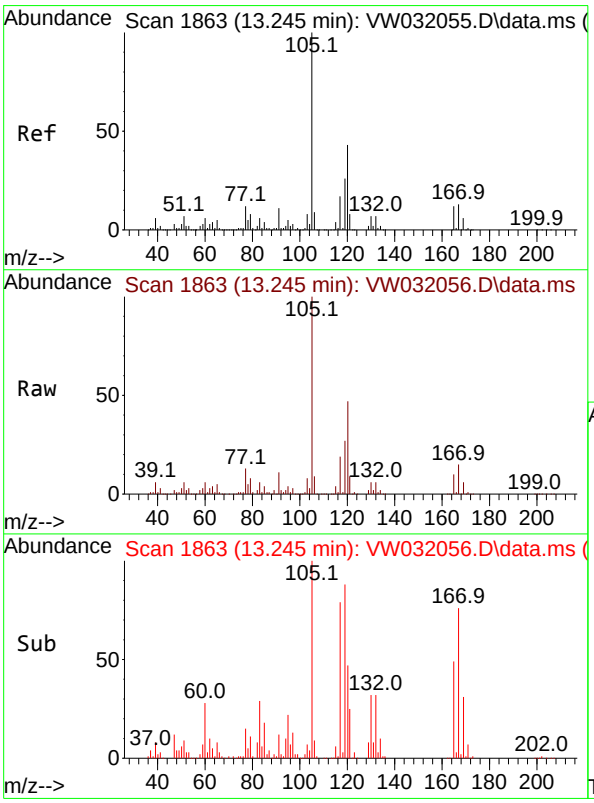
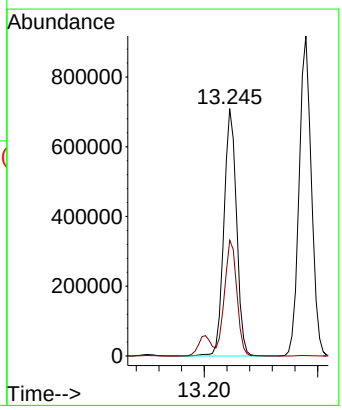
Supervised By :Semsettin Yesilyurt 08/12/2025

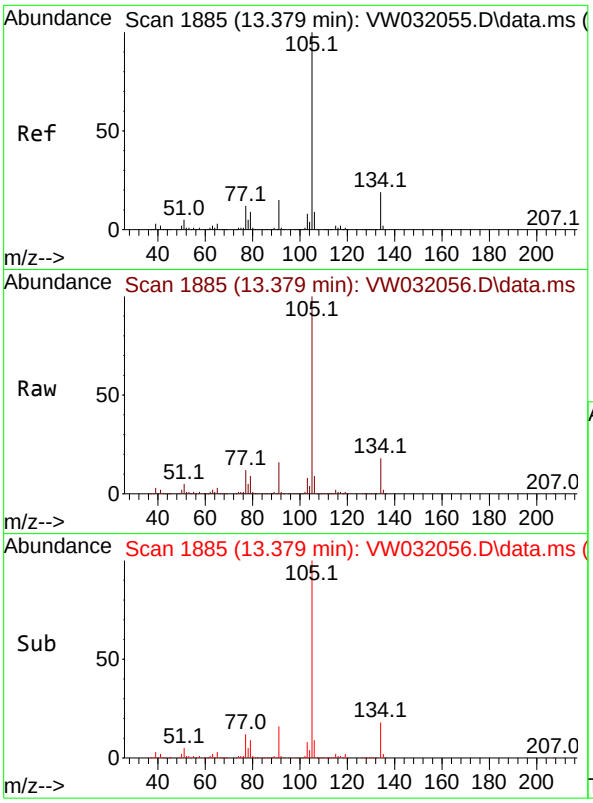



#84
1,2,4-Trimethylbenzene
Concen: 99.778 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:105 Resp: 1089327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.7 | 21.6 | 64.8 |






#85
sec-Butylbenzene
Concen: 101.978 ug/l
RT: 13.379 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:105 Resp: 137232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 18.7 | 9.9 | 29.7 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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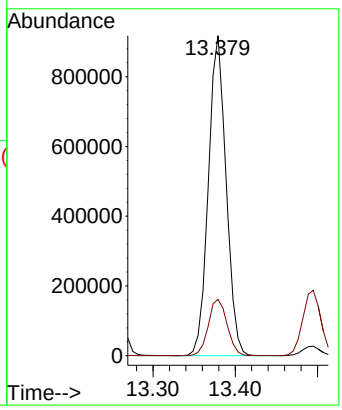
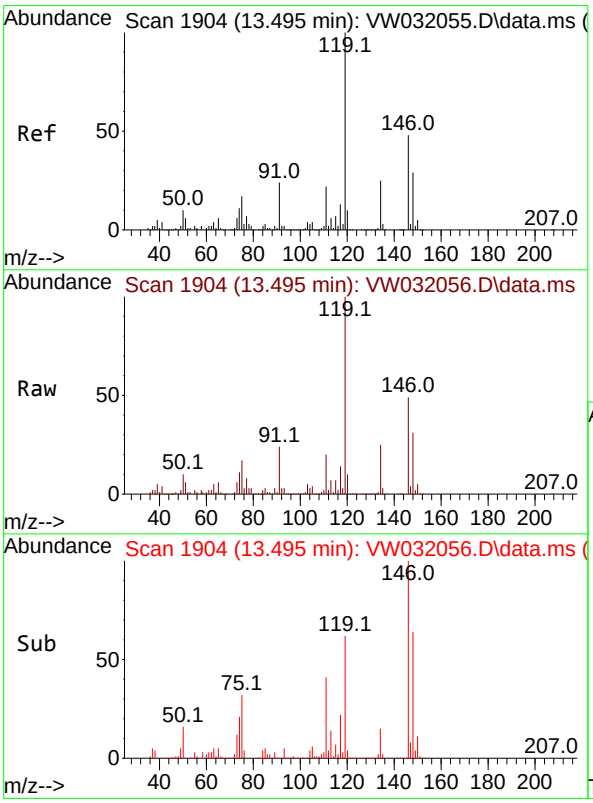
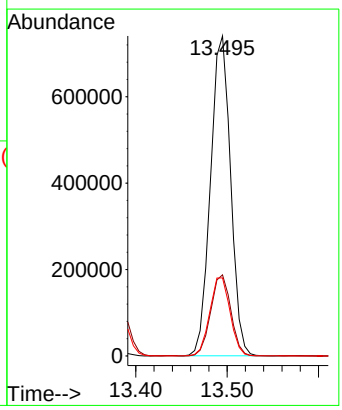


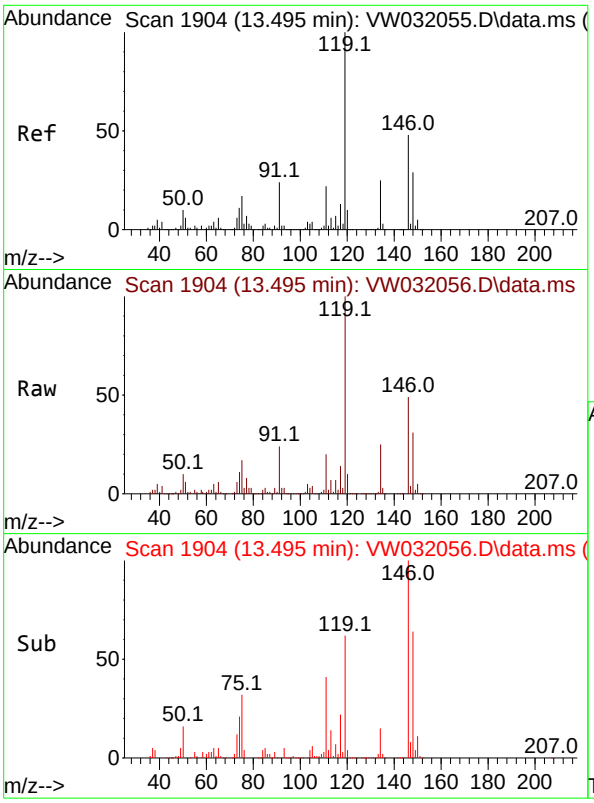




#86
p-Isopropyltoluene
Concen: 100.630 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:119 Resp: 1128935

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.3 | 12.4 | 37.0 |
| 91 | 24.8 | 12.1 | 36.3 |

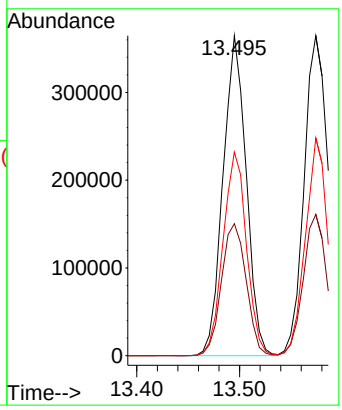





#87
1,3-Dichlorobenzene
Concen: 95.298 ug/l
RT: 13.495 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:146 Resp: 57214

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.0 | 21.2 | 63.6 |
| 148 | 64.4 | 30.3 | 90.8 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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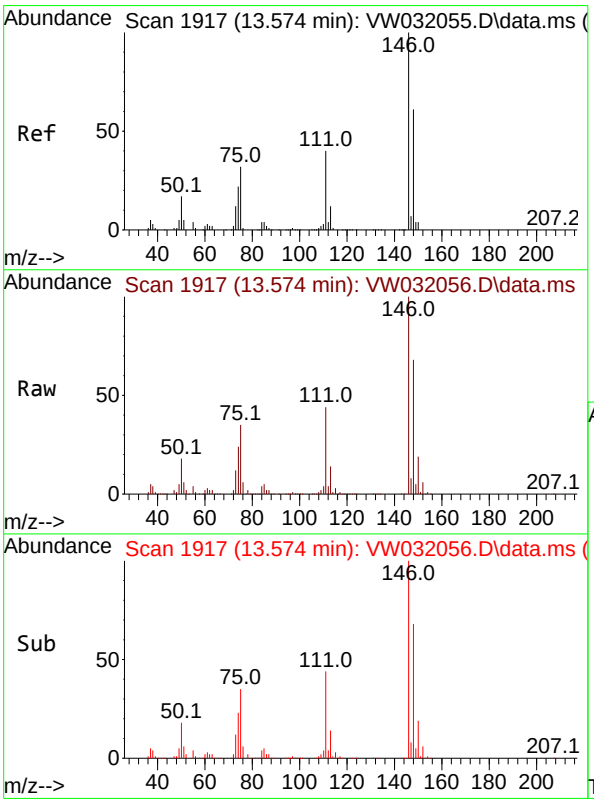
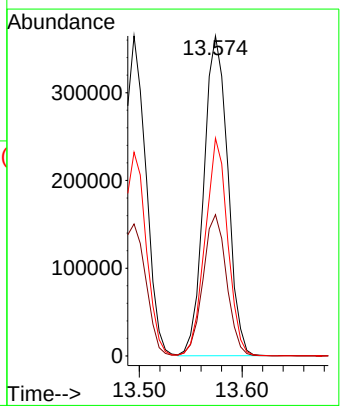
Supervised By :Semsettin Yesilyurt 08/12/2025

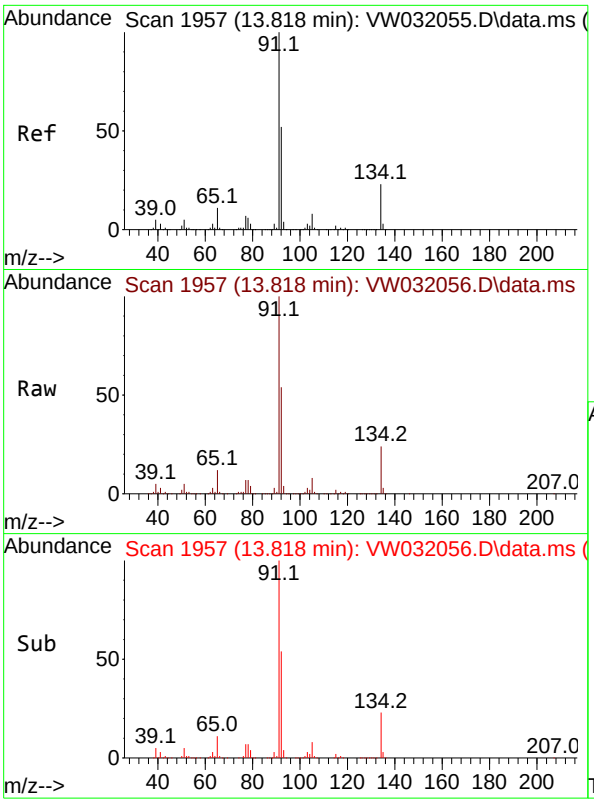



#88
1,4-Dichlorobenzene
Concen: 96.819 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:146 Resp: 587417

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.7 | 21.6 | 64.6 |
| 148 | 64.3 | 32.0 | 96.2 |

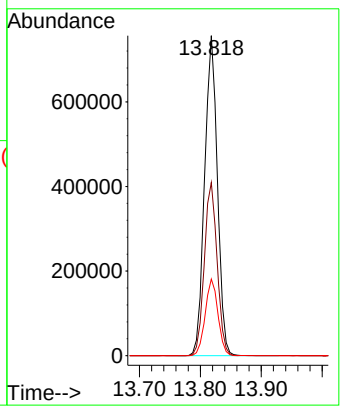





#89
n-Butylbenzene
Concen: 101.235 ug/l
RT: 13.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 91 Resp: 110336

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.3 | 26.7 | 80.1 |
| 134 | 24.0 | 12.0 | 36.1 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
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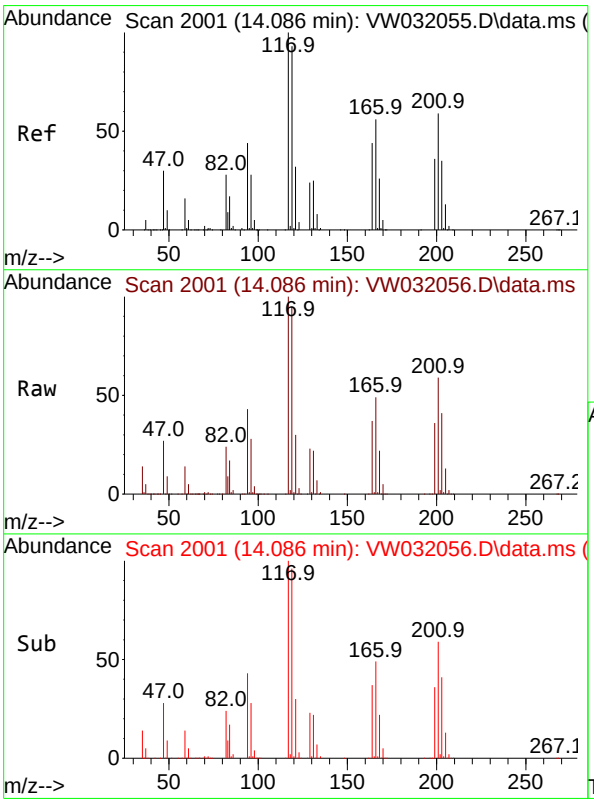
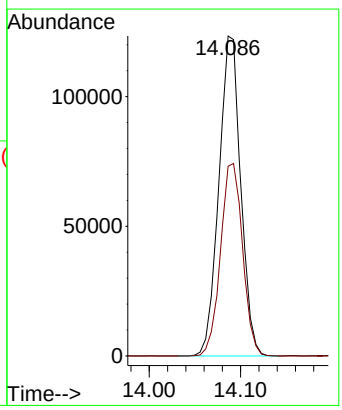
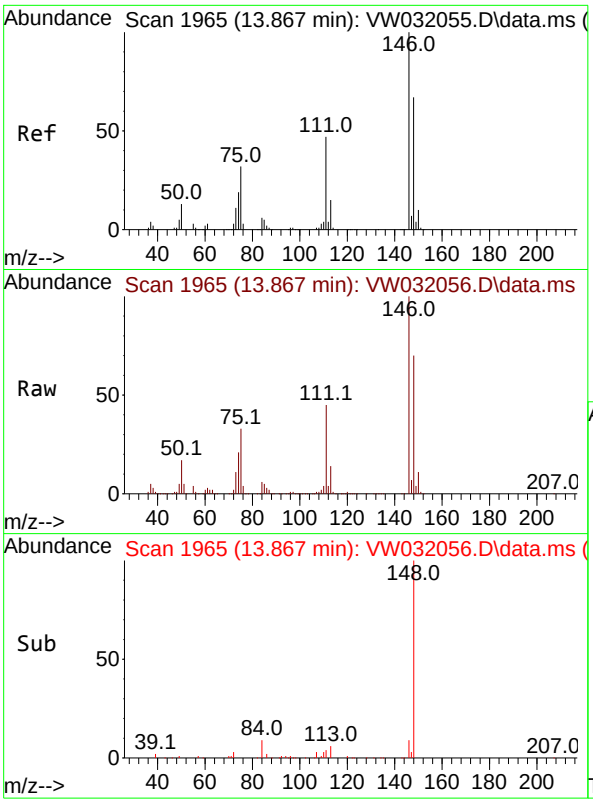



#90
Hexachloroethane
Concen: 99.832 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:117 Resp: 204823

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 60.9 | 30.9 | 92.5 |

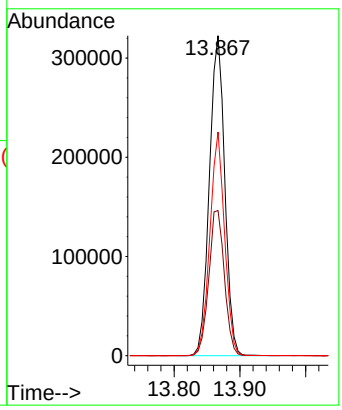





#91
1,2-Dichlorobenzene
Concen: 96.387 ug/l
RT: 13.867 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:146 Resp: 52420

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 46.3 | 23.1 | 69.3 |
| 148 | 67.0 | 32.9 | 98.6 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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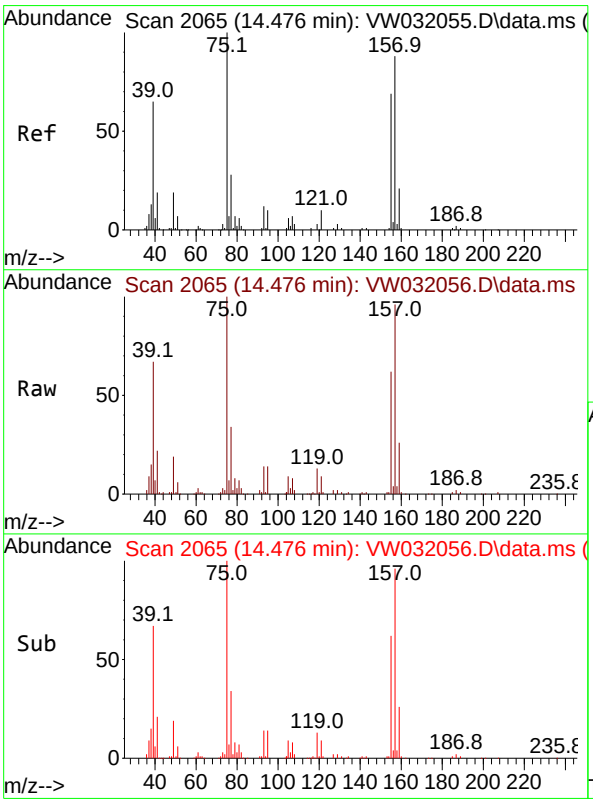
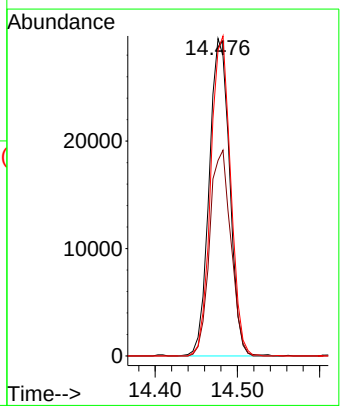
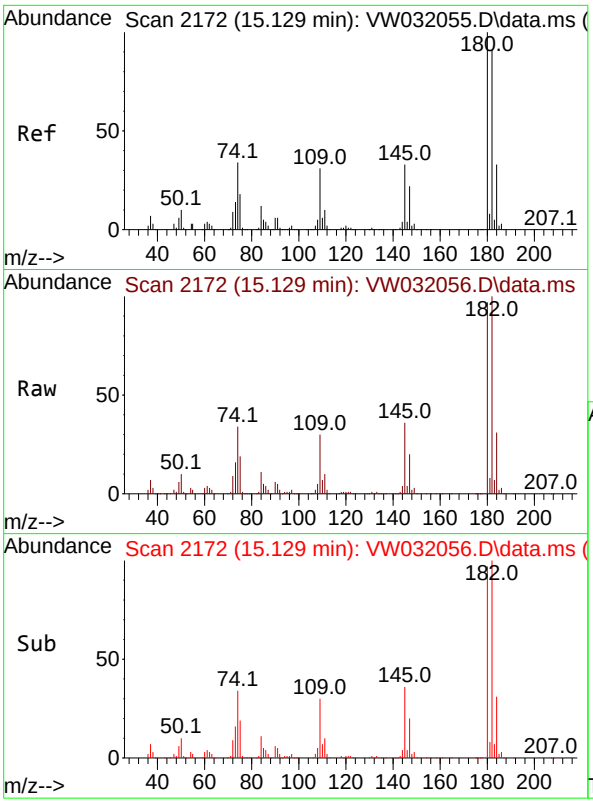



#92
1,2-Dibromo-3-Chloropropane
Concen: 95.632 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 75 Resp: 50993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 67.2 | 35.2 | 105.6 |
| 157 | 97.8 | 47.5 | 142.6 |

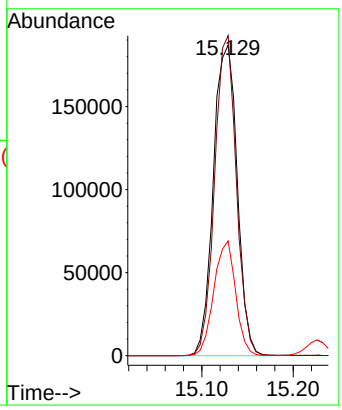





#93
1,2,4-Trichlorobenzene
Concen: 104.094 ug/l
RT: 15.129 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:180 Resp: 33866

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.1 | 49.0 | 147.0 |
| 145 | 33.9 | 17.3 | 51.9 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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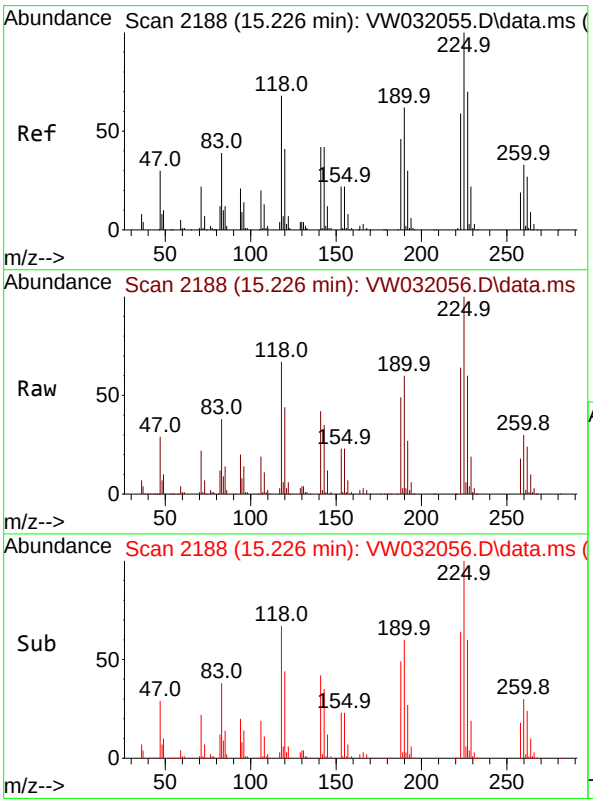
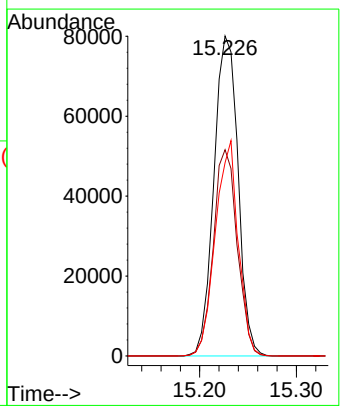
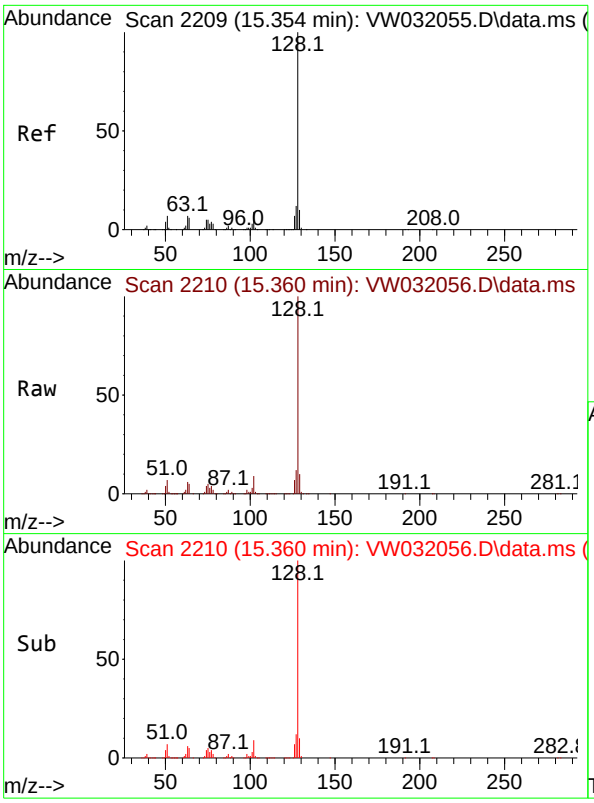



#94
Hexachlorobutadiene
Concen: 95.189 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:225 Resp: 138434

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.9 | 31.8 | 95.3 |
| 227 | 64.1 | 33.5 | 100.5 |

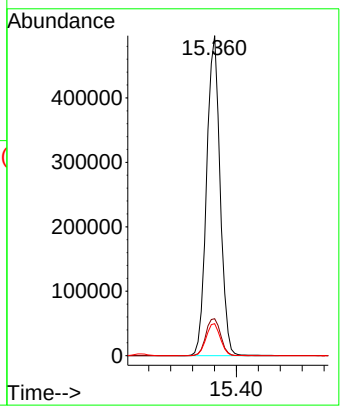





#95
Naphthalene
Concen: 105.533 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:128 Resp: 84129

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.7 | 10.5 | 15.7 |
| 129 | 10.6 | 8.2 | 12.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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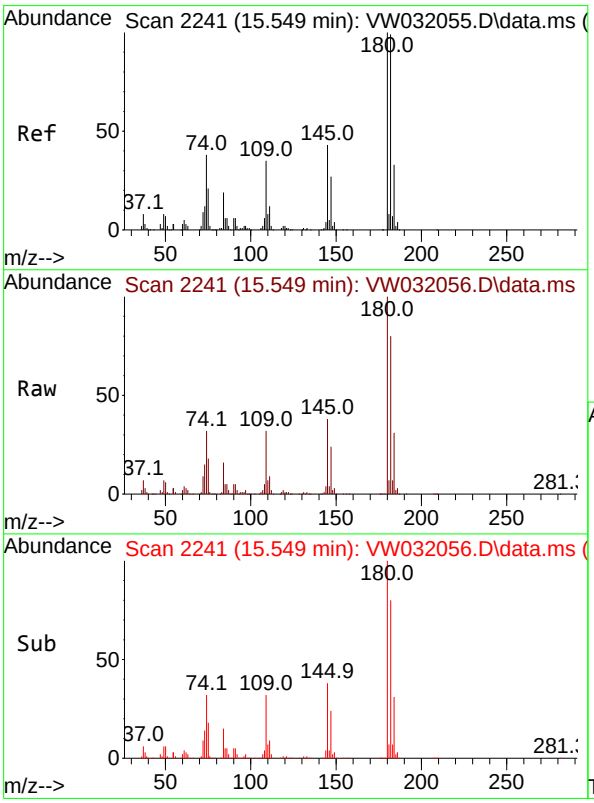
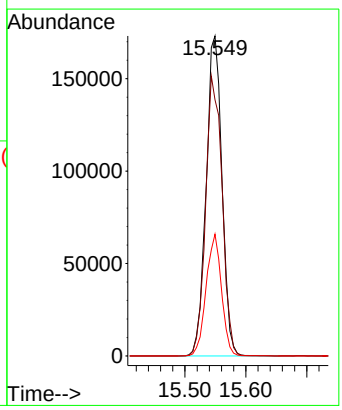



#96
1,2,3-Trichlorobenzene
Concen: 105.748 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:180 Resp: 313033

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 91.1 | 46.0 | 138.0 |
| 145 | 36.9 | 19.2 | 57.6 |



ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032057.D
Acq On : 11 Aug 2025 11:08
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Quant Time: Aug 12 03:40:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.959 | 168 | 224613 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.849 | 114 | 422167 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.629 | 117 | 375277 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.550 | 152 | 172321 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.319 | 65 | 469688 | 144.584 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 63 - 155 | | Recovery = 289.160%# | | | |
| 35) Dibromofluoromethane | 7.898 | 113 | 393306 | 144.207 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 70 - 134 | | Recovery = 288.420%# | | | |
| 50) Toluene-d8 | 10.331 | 98 | 1492050 | 147.908 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 123 | | Recovery = 295.820%# | | | |
| 62) 4-Bromofluorobenzene | 12.617 | 95 | 558308 | 150.185 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 17 - 146 | | Recovery = 300.380%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.046 | 85 | 218953 | 136.294 | ug/l | 100 |
| 3) Chloromethane | 2.253 | 50 | 315772 | 145.923 | ug/l | 97 |
| 4) Vinyl Chloride | 2.405 | 62 | 362119 | 138.343 | ug/l | 95 |
| 5) Bromomethane | 2.808 | 94 | 271810 | 138.413 | ug/l | 98 |
| 6) Chloroethane | 2.966 | 64 | 247890 | 143.117 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.301 | 101 | 339384 | 161.851 | ug/l | 98 |
| 8) Diethyl Ether | 3.722 | 74 | 254566 | 148.178 | ug/l | 98 |
| 9) 1,1,2-Trichlorotrifluo... | 4.100 | 101 | 343759 | 138.957 | ug/l | 99 |
| 10) Methyl Iodide | 4.301 | 142 | 514954 | 146.812 | ug/l | 100 |
| 11) Tert butyl alcohol | 5.222 | 59 | 164147 | 780.336 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 4.076 | 96 | 388559 | 142.642 | ug/l | 94 |
| 13) Acrolein | 3.929 | 56 | 224901 | 671.009 | ug/l | 98 |
| 14) Allyl chloride | 4.704 | 41 | 600290 | 151.415 | ug/l | 99 |
| 15) Acrylonitrile | 5.399 | 53 | 629942 | 769.843 | ug/l | 99 |
| 16) Acetone | 4.161 | 43 | 528585 | 702.794 | ug/l | 100 |
| 17) Carbon Disulfide | 4.423 | 76 | 1081188 | 147.872 | ug/l | 98 |
| 18) Methyl Acetate | 4.710 | 43 | 371024 | 155.895 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.466 | 73 | 719923 | 149.999 | ug/l | 100 |
| 20) Methylene Chloride | 4.960 | 84 | 437275 | 125.744 | ug/l | 95 |
| 21) trans-1,2-Dichloroethene | 5.454 | 96 | 427242 | 147.794 | ug/l | 96 |
| 22) Diisopropyl ether | 6.344 | 45 | 1260898 | 150.866 | ug/l | 98 |
| 23) Vinyl Acetate | 6.283 | 43 | 4356523 | 793.927 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 6.240 | 63 | 782153 | 146.472 | ug/l | 99 |
| 25) 2-Butanone | 7.191 | 43 | 837991 | 783.936 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 7.185 | 77 | 393976 | 147.064 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 7.191 | 96 | 518413 | 153.420 | ug/l | 98 |
| 28) Bromochloromethane | 7.532 | 49 | 356684 | 146.781 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.551 | 42 | 549203 | 779.054 | ug/l | 99 |
| 30) Chloroform | 7.691 | 83 | 823850 | 145.528 | ug/l | 98 |
| 31) Cyclohexane | 7.971 | 56 | 645762 | 139.490 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.886 | 97 | 591372 | 143.816 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 8.093 | 75 | 556189 | 144.659 | ug/l | 99 |
| 37) Ethyl Acetate | 7.276 | 43 | 348970 | 154.109 | ug/l | 99 |
| 38) Carbon Tetrachloride | 8.087 | 117 | 544688 | 146.799 | ug/l | 97 |
| 39) Methylcyclohexane | 9.343 | 83 | 732413 | 156.286 | ug/l | 99 |
| 40) Benzene | 8.337 | 78 | 1770706 | 148.159 | ug/l | 97 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032057.D
Acq On : 11 Aug 2025 11:08
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 12 03:40:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.502 | 41 | 205729 | 160.204 | ug/l | | 97 |
| 42) 1,2-Dichloroethane | 8.410 | 62 | 552184 | 144.388 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.435 | 43 | 665712 | 159.788 | ug/l | | 100 |
| 44) Trichloroethene | 9.099 | 130 | 424873 | 149.281 | ug/l | | 93 |
| 45) 1,2-Dichloropropane | 9.374 | 63 | 429280 | 148.679 | ug/l | | 100 |
| 46) Dibromomethane | 9.465 | 93 | 277058 | 148.678 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.648 | 83 | 653476 | 152.185 | ug/l | | 99 |
| 48) Methyl methacrylate | 9.441 | 41 | 330511 | 164.326 | ug/l | | 99 |
| 49) 1,4-Dioxane | 9.459 | 88 | 79016 | 3279.484 | ug/l | # | 83 |
| 51) 4-Methyl-2-Pentanone | 10.215 | 43 | 1817273 | 772.800 | ug/l | | 99 |
| 52) Toluene | 10.392 | 92 | 1142813 | 151.812 | ug/l | | 96 |
| 53) t-1,3-Dichloropropene | 10.605 | 75 | 654765 | 162.760 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 10.075 | 75 | 716583 | 157.011 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 10.788 | 97 | 364680 | 147.271 | ug/l | | 98 |
| 56) Ethyl methacrylate | 10.648 | 69 | 553265 | 166.963 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.934 | 76 | 644418 | 149.298 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.928 | 63 | 1437682 | 784.377 | ug/l | | 99 |
| 59) 2-Hexanone | 10.971 | 43 | 1278917 | 785.288 | ug/l | | 98 |
| 60) Dibromochloromethane | 11.129 | 129 | 442362 | 156.387 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.239 | 107 | 363192 | 150.929 | ug/l | | 96 |
| 64) Tetrachloroethene | 10.867 | 164 | 326491 | 150.622 | ug/l | | 94 |
| 65) Chlorobenzene | 11.660 | 112 | 1230240 | 150.609 | ug/l | | 96 |
| 66) 1,1,1,2-Tetrachloroethane | 11.727 | 131 | 400167 | 157.017 | ug/l | | 97 |
| 67) Ethyl Benzene | 11.733 | 91 | 2162983 | 156.328 | ug/l | | 97 |
| 68) m/p-Xylenes | 11.837 | 106 | 1643338 | 307.801 | ug/l | | 100 |
| 69) o-Xylene | 12.166 | 106 | 786831 | 159.450 | ug/l | | 99 |
| 70) Styrene | 12.178 | 104 | 1406640 | 160.482 | ug/l | | 97 |
| 71) Bromoform | 12.349 | 173 | 238675 | 163.720 | ug/l | # | 93 |
| 73) Isopropylbenzene | 12.464 | 105 | 1977280 | 164.188 | ug/l | | 99 |
| 74) N-amyl acetate | 12.269 | 43 | 589285 | 170.556 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.708 | 83 | 449708 | 157.276 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.763 | 75 | 334775m | 126.378 | ug/l | | |
| 77) Bromobenzene | 12.745 | 156 | 440559 | 153.167 | ug/l | | 98 |
| 78) n-propylbenzene | 12.800 | 91 | 2346333 | 158.253 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.891 | 91 | 1434986 | 156.820 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.940 | 105 | 1639597 | 160.368 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.507 | 75 | 157641 | 174.499 | ug/l | | 96 |
| 82) 4-Chlorotoluene | 12.983 | 91 | 1515300 | 155.863 | ug/l | | 98 |
| 83) tert-Butylbenzene | 13.202 | 119 | 1383127 | 163.006 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.245 | 105 | 1646381 | 158.189 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.379 | 105 | 2047763 | 159.625 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.495 | 119 | 1712519 | 160.127 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.495 | 146 | 867827 | 151.629 | ug/l | | 97 |
| 88) 1,4-Dichlorobenzene | 13.574 | 146 | 851057 | 147.144 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.818 | 91 | 1657492 | 159.527 | ug/l | | 98 |
| 90) Hexachloroethane | 14.086 | 117 | 322461 | 164.868 | ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 13.867 | 146 | 798257 | 153.968 | ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.476 | 75 | 81063 | 159.472 | ug/l | | 94 |
| 93) 1,2,4-Trichlorobenzene | 15.123 | 180 | 499355 | 161.006 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 15.226 | 225 | 218963 | 157.938 | ug/l | | 97 |
| 95) Naphthalene | 15.360 | 128 | 1348344 | 177.424 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.543 | 180 | 466811 | 165.423 | ug/l | | 97 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032057.D
Acq On : 11 Aug 2025 11:08
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Quant Time: Aug 12 03:40:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

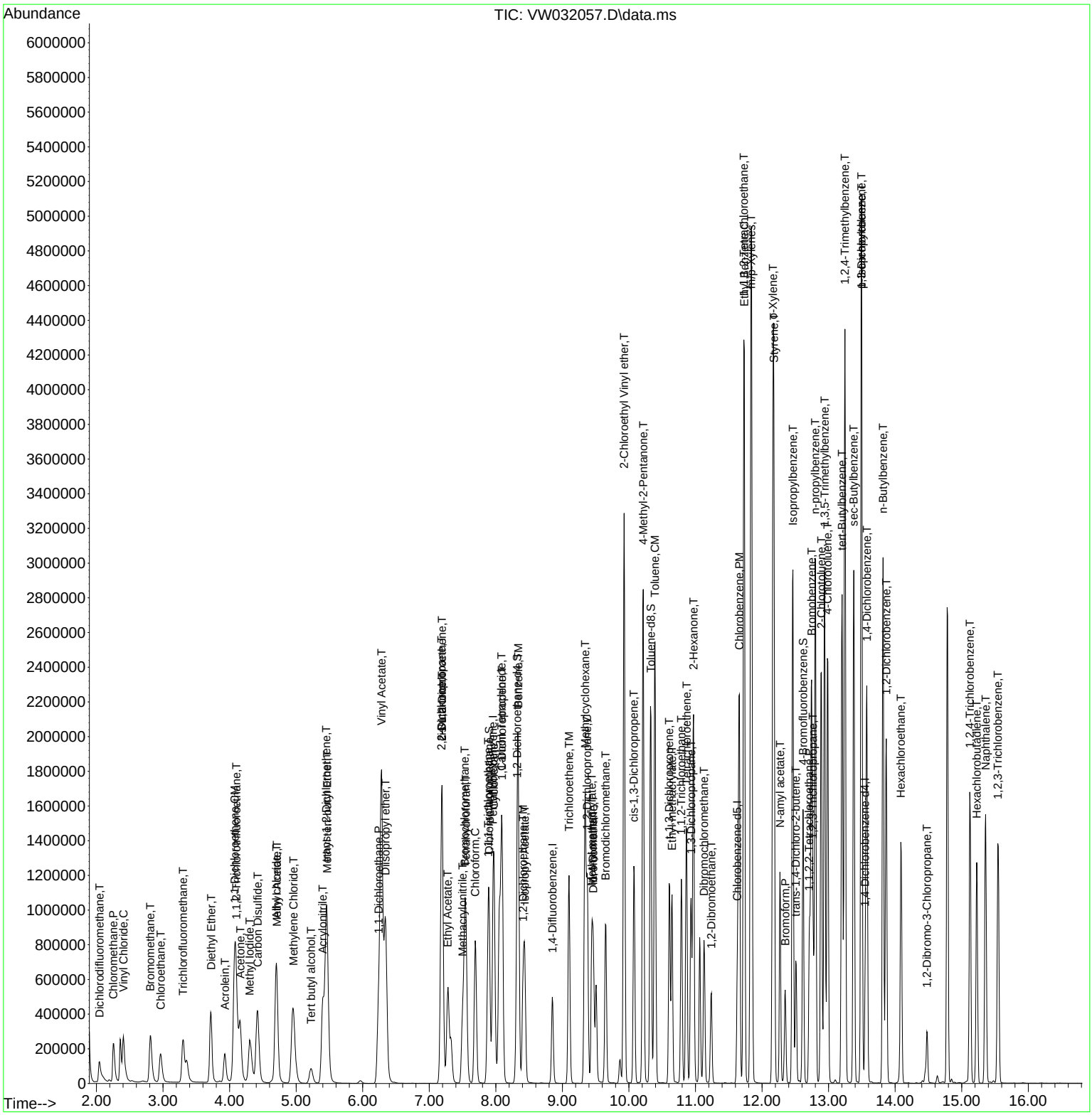
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032057.D
Acq On : 11 Aug 2025 11:08
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 8 Sample Multiplier: 1

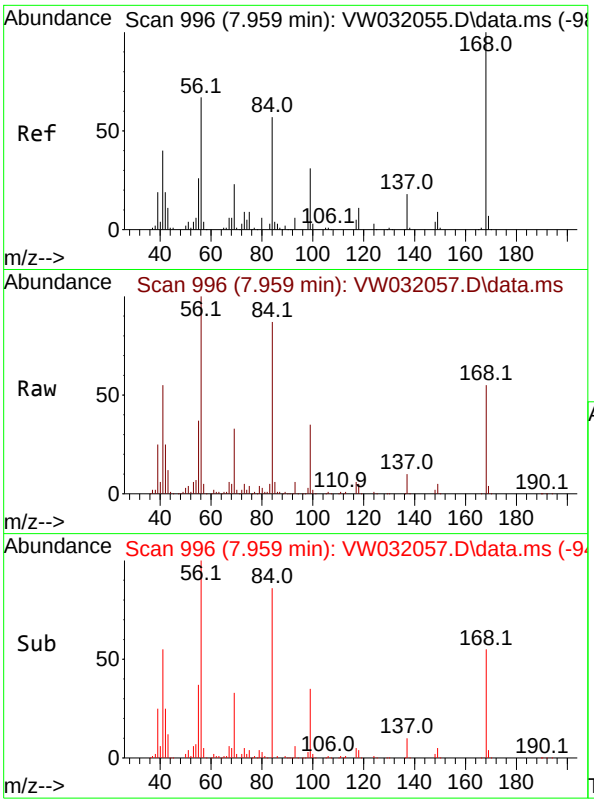
Quant Time: Aug 12 03:40:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

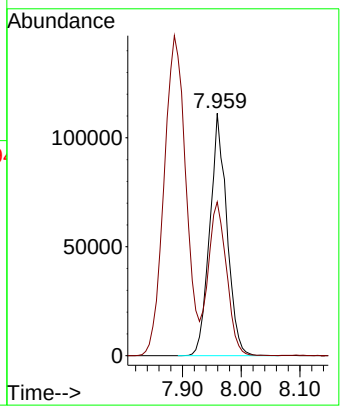





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:168 Resp: 22461

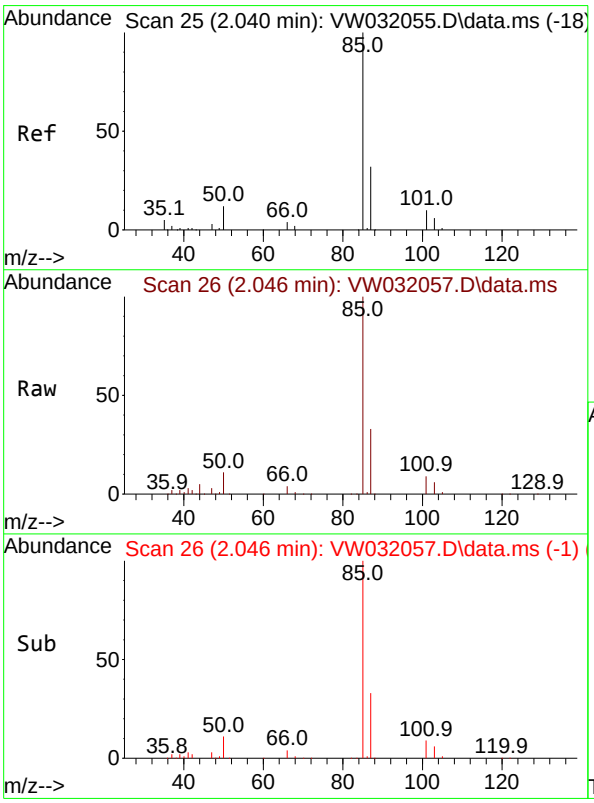
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 63.4 | 56.0 | 84.0 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

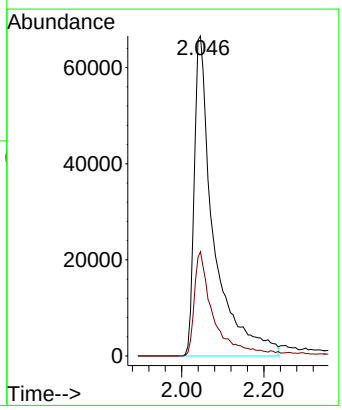
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

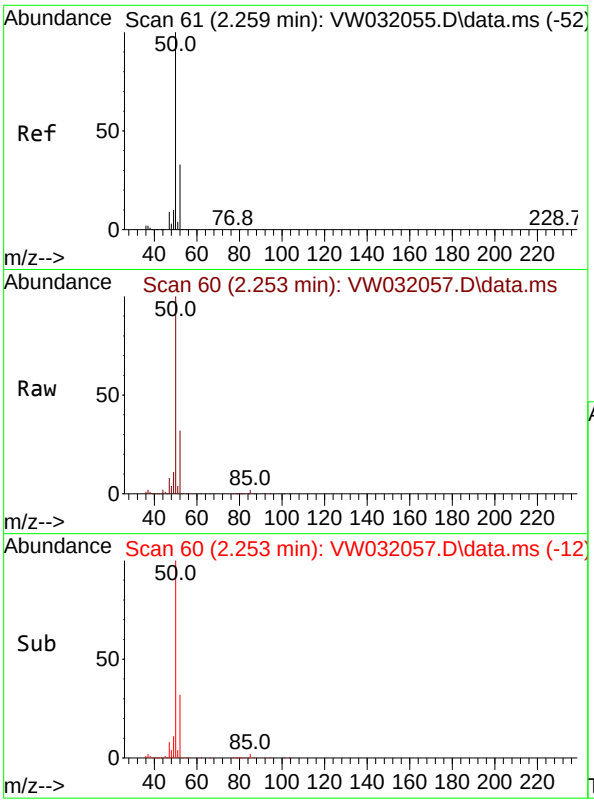



#2
Dichlorodifluoromethane
Concen: 136.294 ug/l
RT: 2.046 min Scan# 26
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 85 Resp: 218953

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.6 | 16.2 | 48.6 |

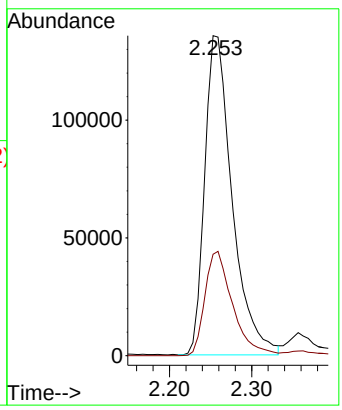





#3
Chloromethane
Concen: 145.923 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 50 Resp: 31577

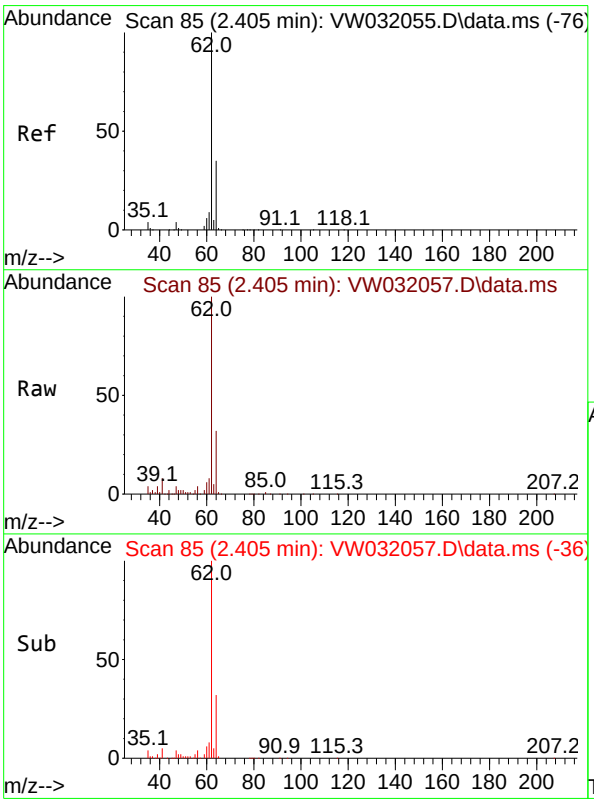
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.8 | 26.6 | 39.8 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

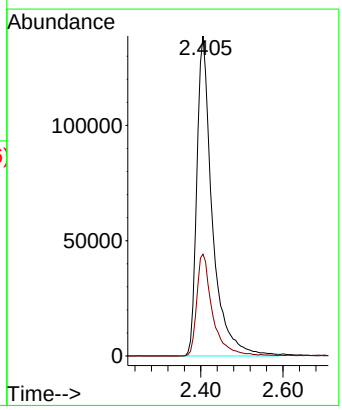
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

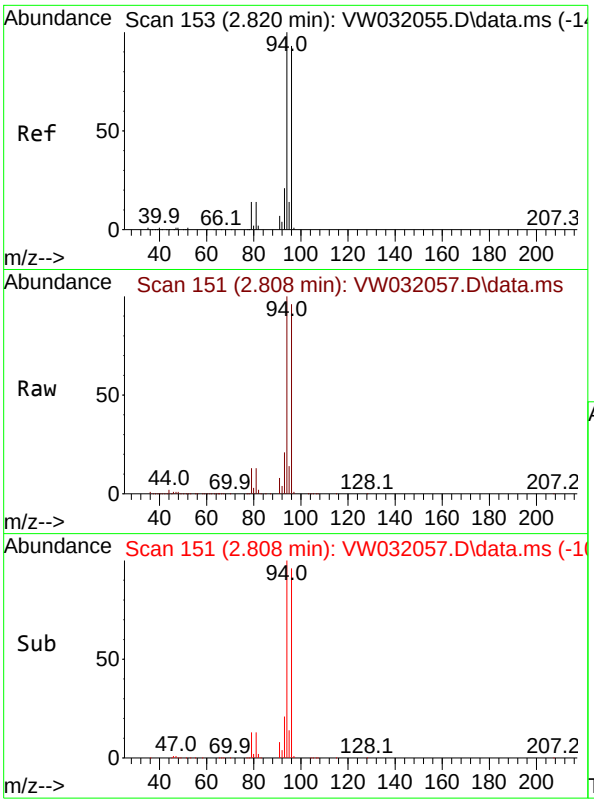



#4
Vinyl Chloride
Concen: 138.343 ug/l
RT: 2.405 min Scan# 85
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 62 Resp: 362119

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.8 | 27.8 | 41.6 |

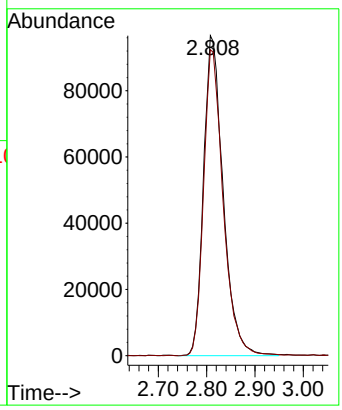





#5
Bromomethane
Concen: 138.413 ug/l
RT: 2.808 min Scan# 1
Delta R.T. -0.012 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 94 Resp: 27181

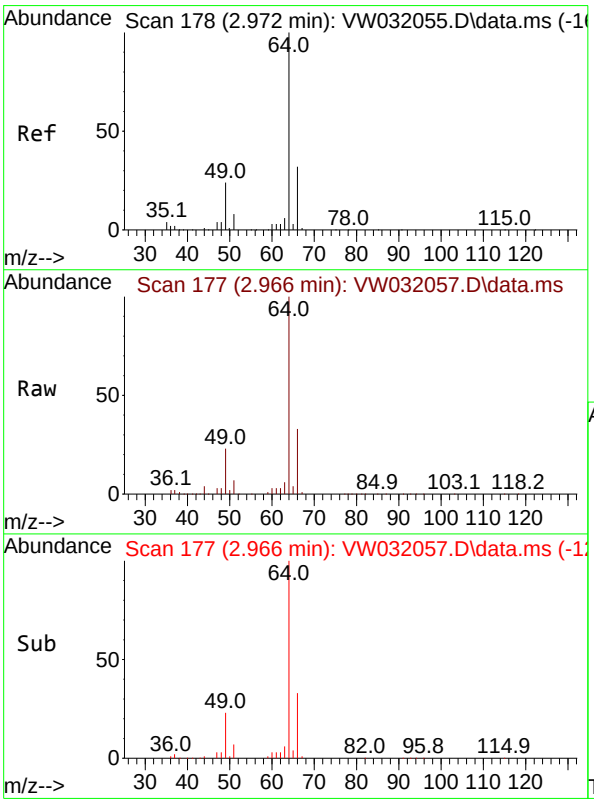
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 95.6 | 74.7 | 112.1 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

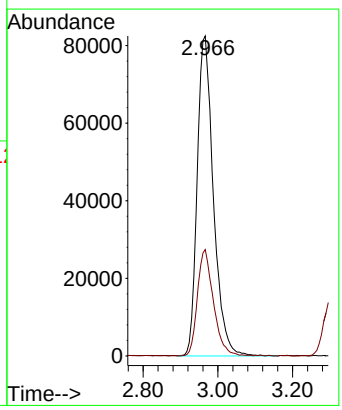
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

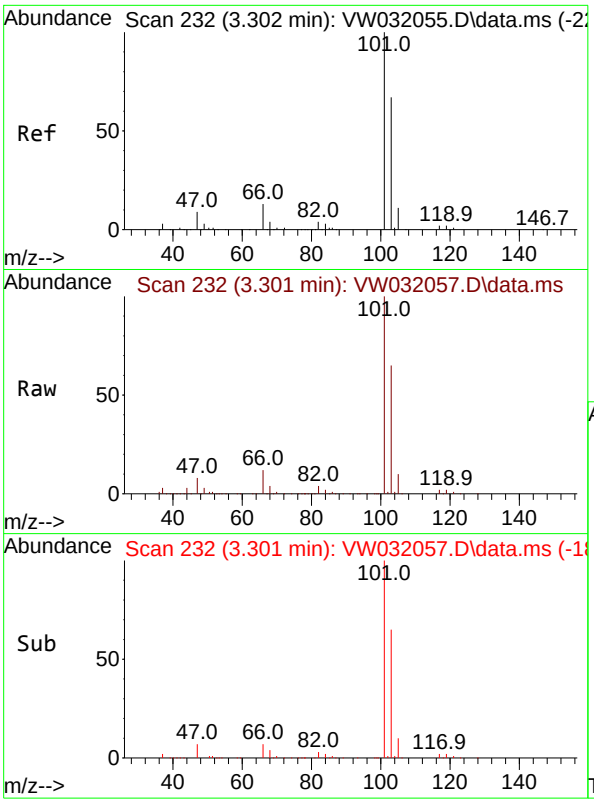



#6
Chloroethane
Concen: 143.117 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 64 Resp: 247890

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 33.2 | 26.0 | 39.0 |

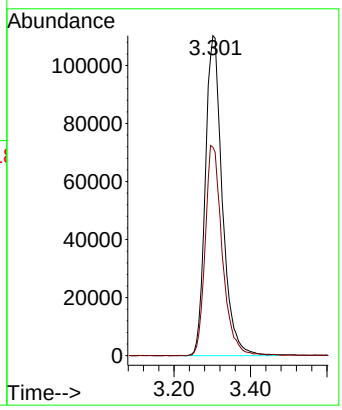





#7
Trichlorofluoromethane
Concen: 161.851 ug/l
RT: 3.301 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:101 Resp: 33938

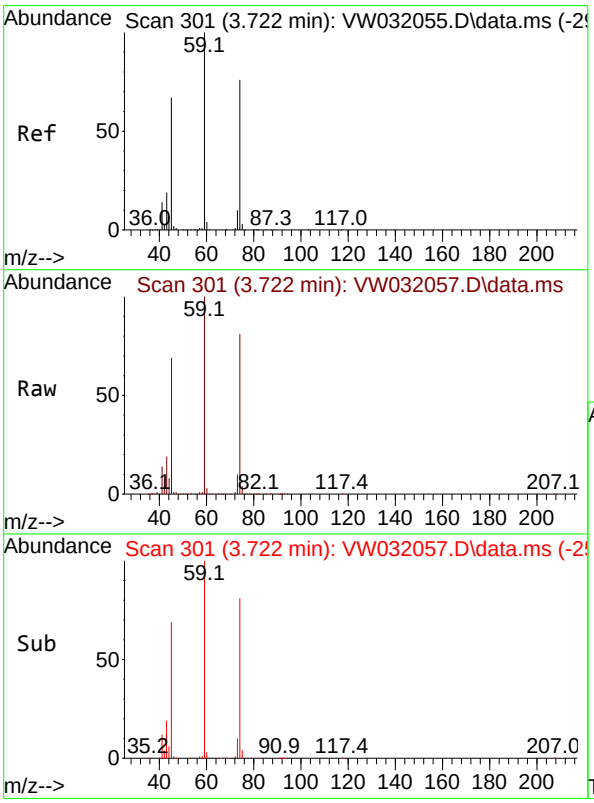
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.1 | 53.4 | 80.0 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

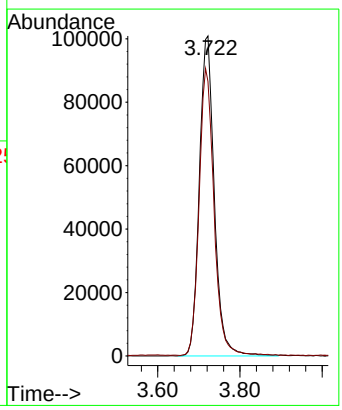
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

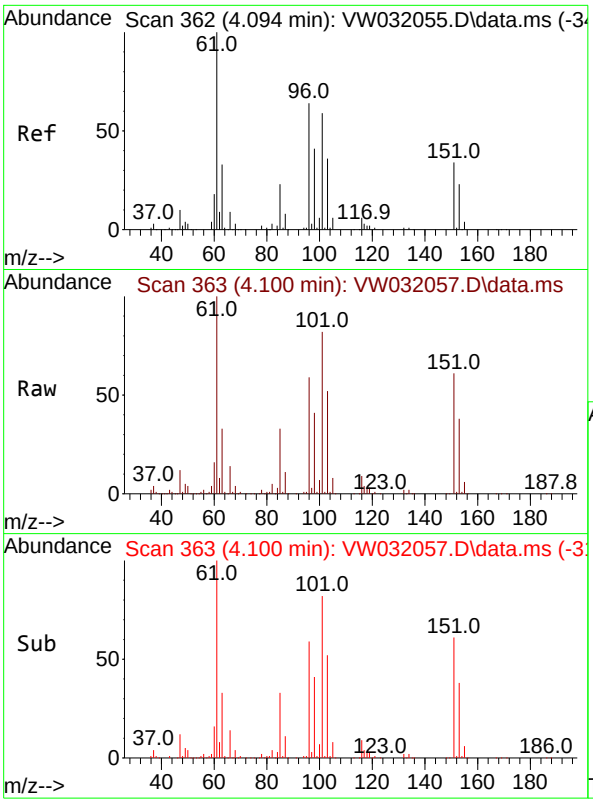



#8
Diethyl Ether
Concen: 148.178 ug/l
RT: 3.722 min Scan# 301
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 74 Resp: 254566

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 89.1 | 45.4 | 136.2 |

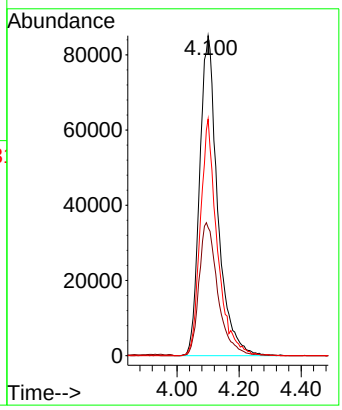





#9
1,1,2-Trichlorotrifluoroethane
Concen: 138.957 ug/l
RT: 4.100 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:101 Resp: 34375

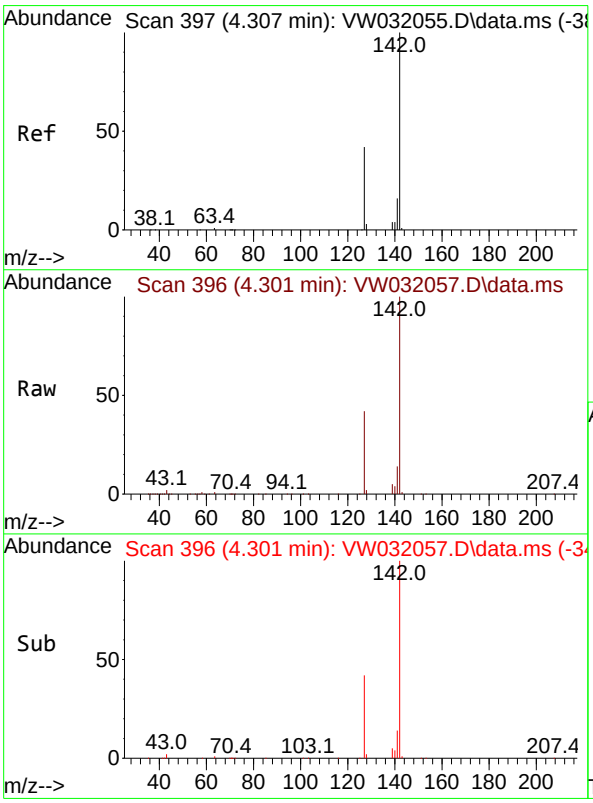
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 43.2 | 34.9 | 52.3 |
| 151 | 69.6 | 56.2 | 84.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

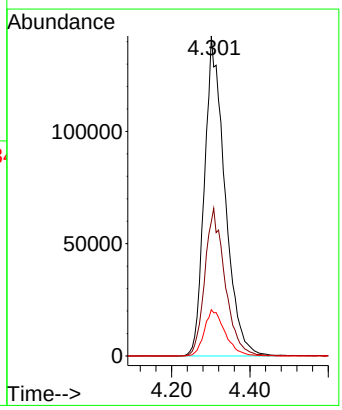
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

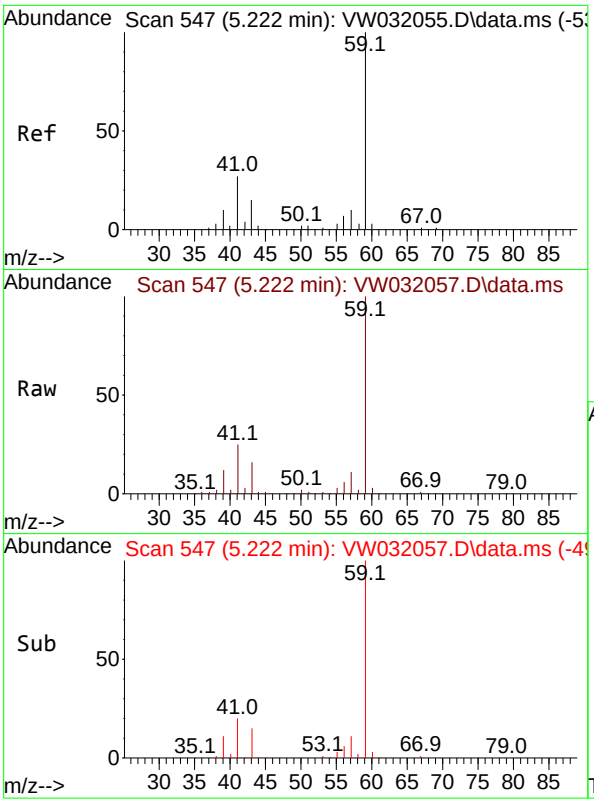



#10
Methyl Iodide
Concen: 146.812 ug/l
RT: 4.301 min Scan# 396
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:142 Resp: 514954

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 45.7 | 36.6 | 55.0 |
| 141 | 14.7 | 12.1 | 18.1 |






#11
Tert butyl alcohol
Concen: 780.336 ug/l
RT: 5.222 min Scan# 54
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 59 Resp: 16414

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.7 | 8.7 | 13.1 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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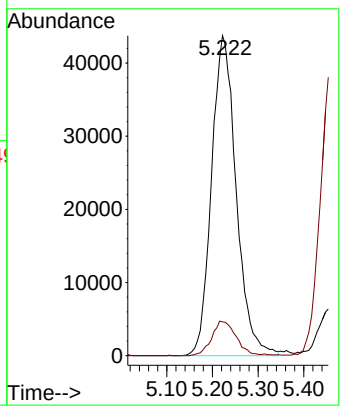
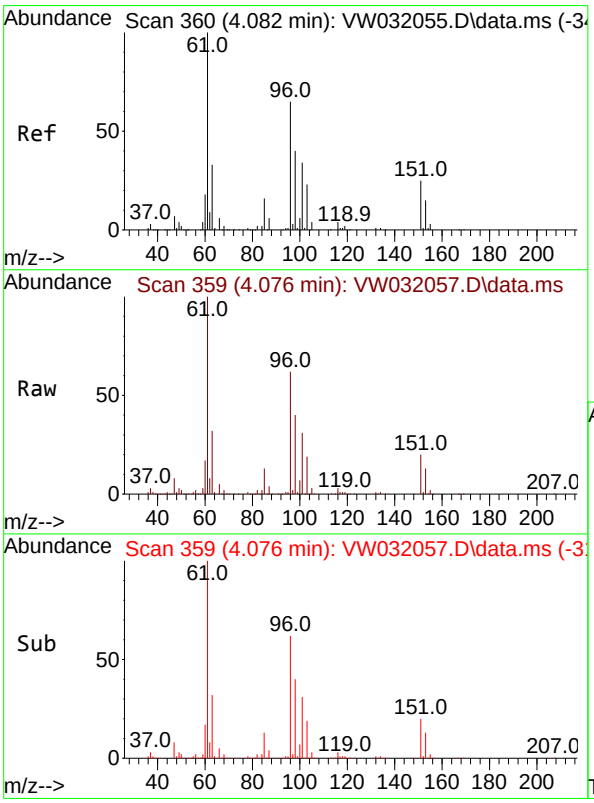
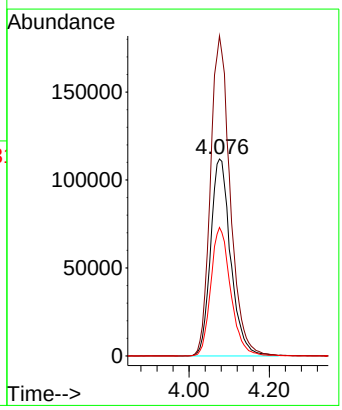


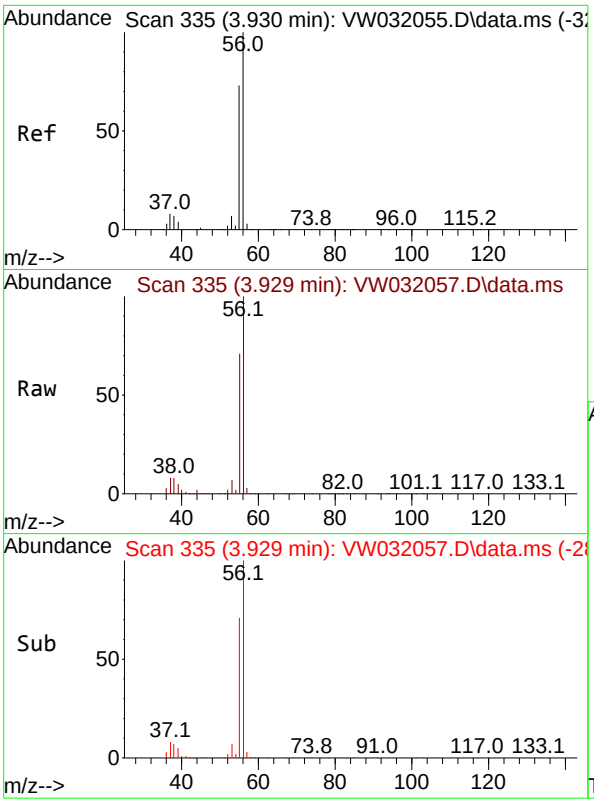




#12
1,1-Dichloroethene
Concen: 142.642 ug/l
RT: 4.076 min Scan# 359
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 96 Resp: 388559

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 162.4 | 123.4 | 185.2 |
| 98 | 65.3 | 49.5 | 74.3 |






#13
Acrolein
Concen: 671.009 ug/l
RT: 3.929 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 56 Resp: 22490

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 70.6 | 55.4 | 83.2 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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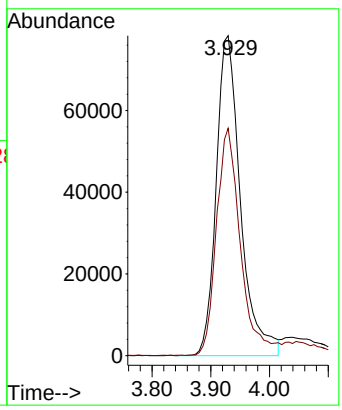
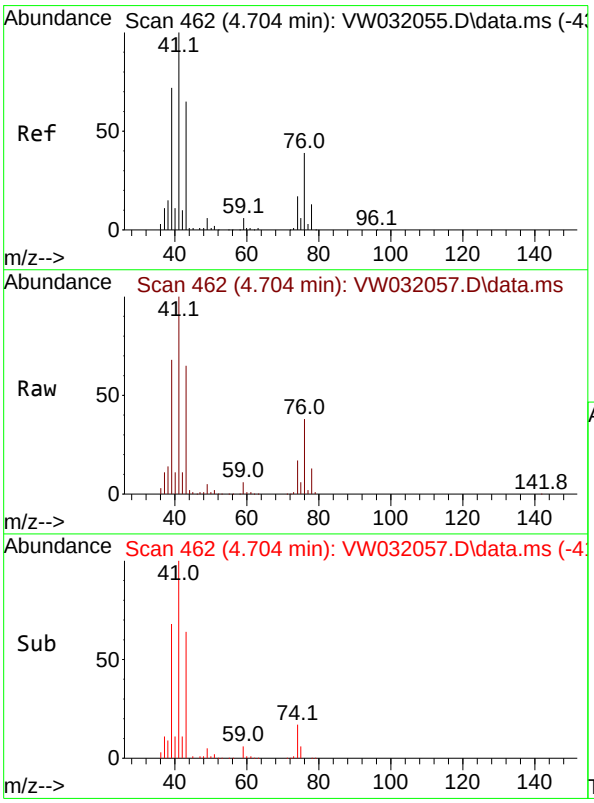
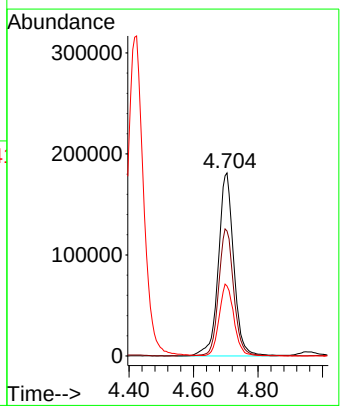


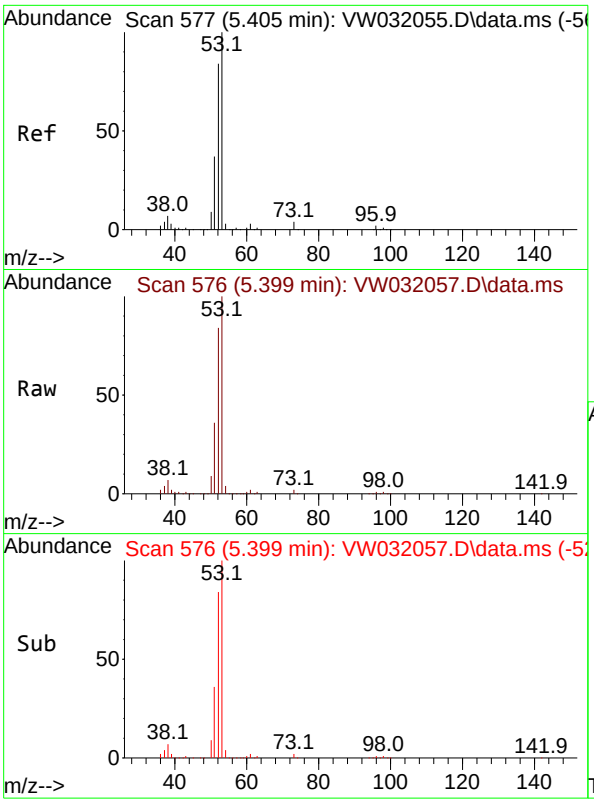




#14
Allyl chloride
Concen: 151.415 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 41 Resp: 600290

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 67.6 | 54.5 | 81.7 |
| 76 | 37.6 | 29.3 | 43.9 |

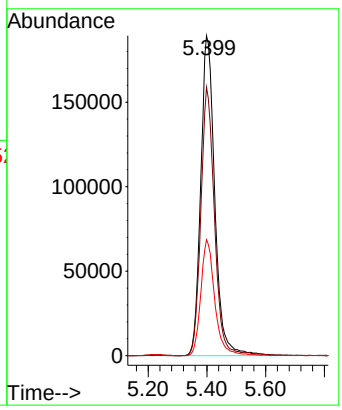





#15
Acrylonitrile
Concen: 769.843 ug/l
RT: 5.399 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 53 Resp: 62994

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.7 | 66.1 | 99.1 |
| 51 | 36.1 | 29.2 | 43.8 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

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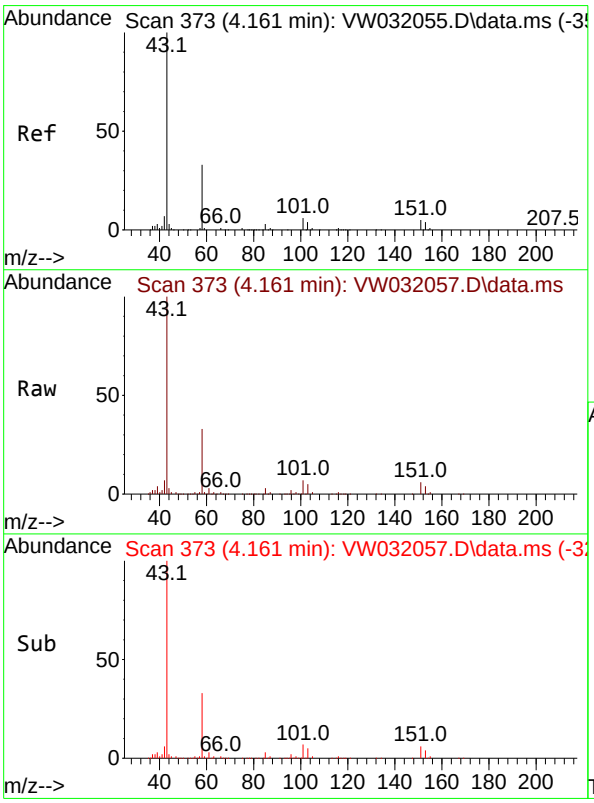
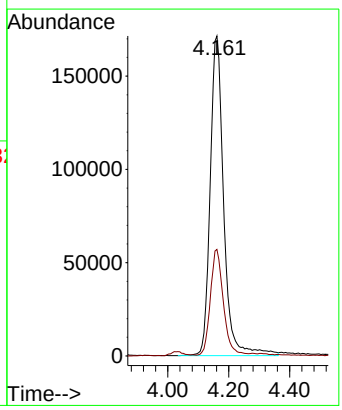
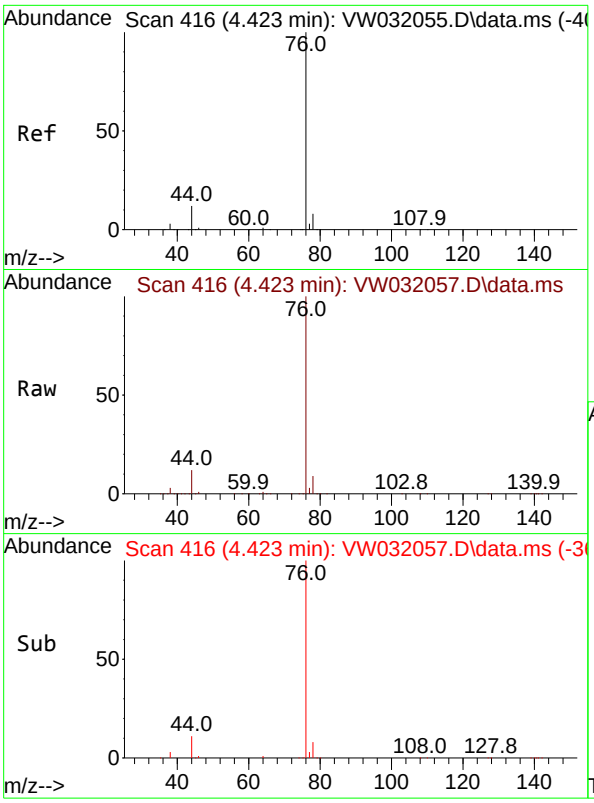



#16
Acetone
Concen: 702.794 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 43 Resp: 528585

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.9 | 26.6 | 39.8 |

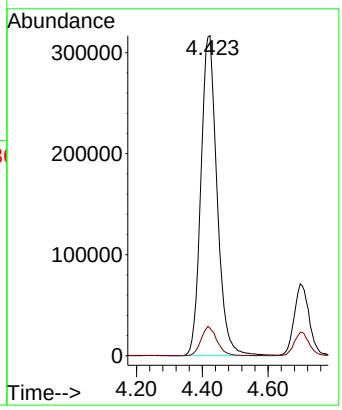





#17
Carbon Disulfide
Concen: 147.872 ug/l
RT: 4.423 min Scan# 4
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 76 Resp: 108118

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.5 | 6.4 | 9.6 |




**Instrument :**
MSVOA_W
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VSTDICC150

**Manual Integrations**
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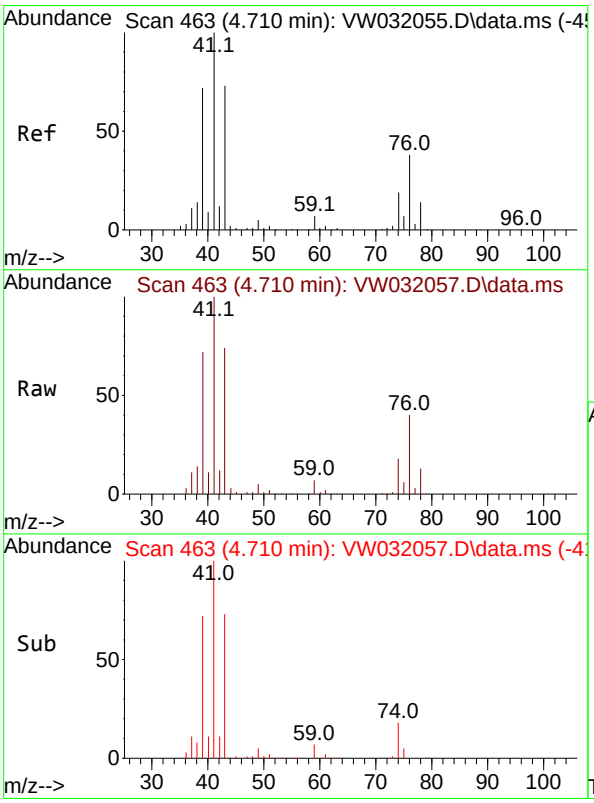
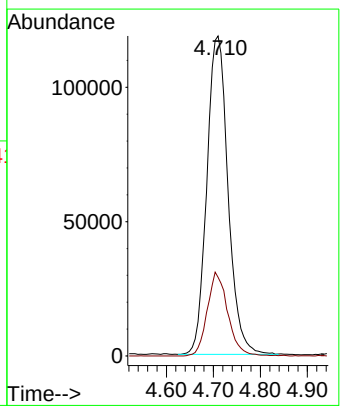
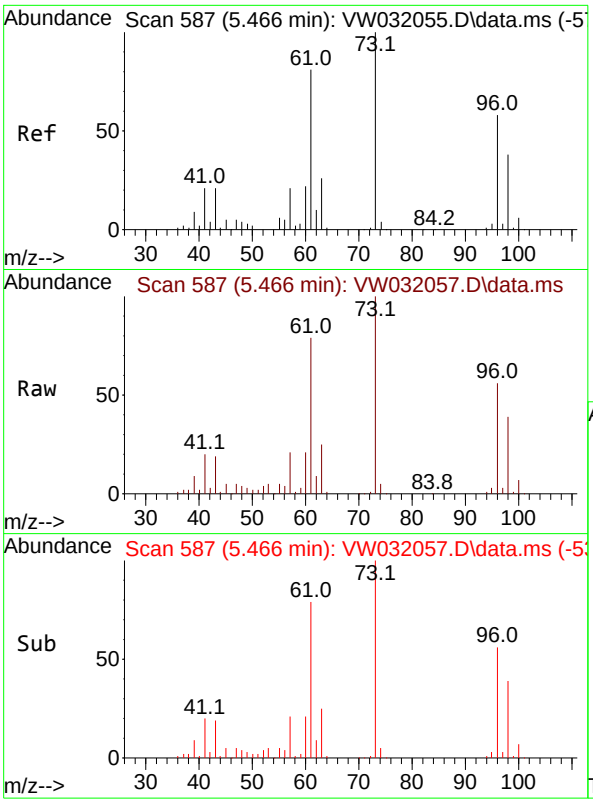



#18
Methyl Acetate
Concen: 155.895 ug/l
RT: 4.710 min Scan# 463
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 43 Resp: 371024

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 25.4 | 20.6 | 31.0 |

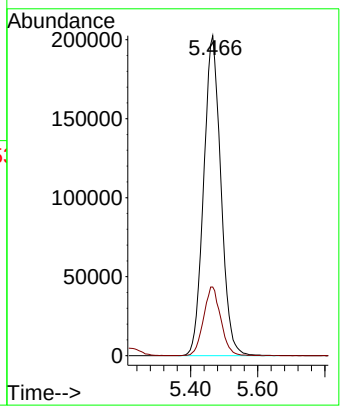





#19
Methyl tert-butyl Ether
Concen: 149.999 ug/l
RT: 5.466 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 73 Resp: 71992

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.4 | 17.2 | 25.8 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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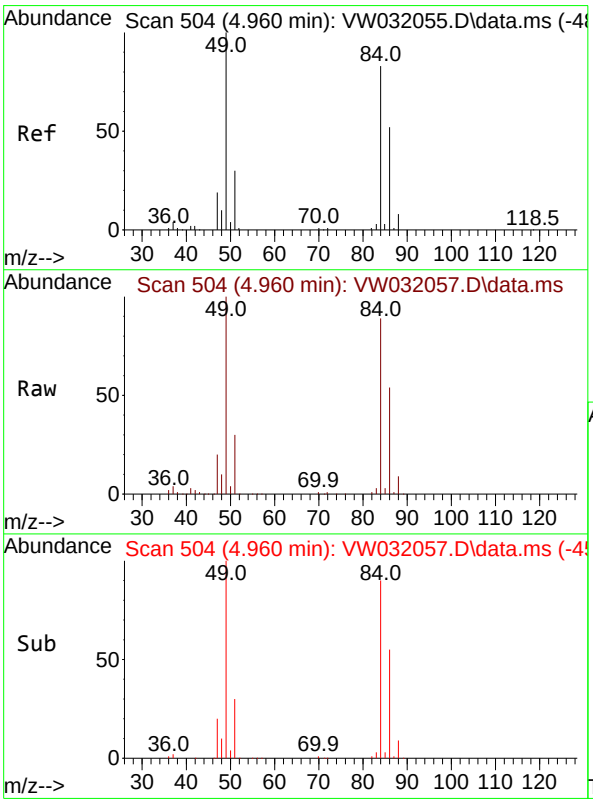
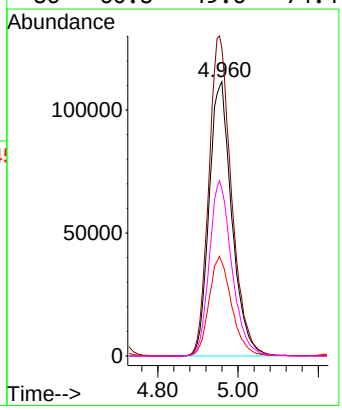
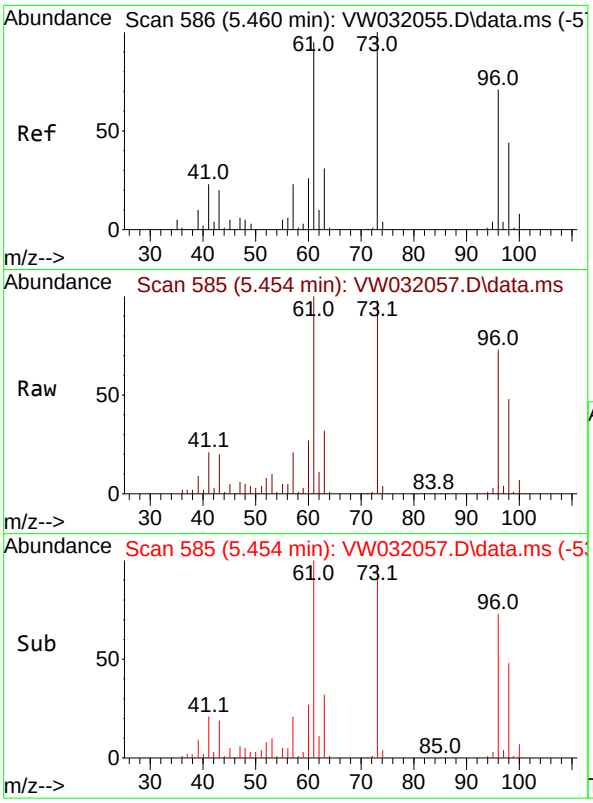



#20
Methylene Chloride
Concen: 125.744 ug/l
RT: 4.960 min Scan# 504
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 84 Resp: 437275

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 112.3 | 95.9 | 143.9 |
| 51 | 34.1 | 28.6 | 43.0 |
| 86 | 60.8 | 49.6 | 74.4 |

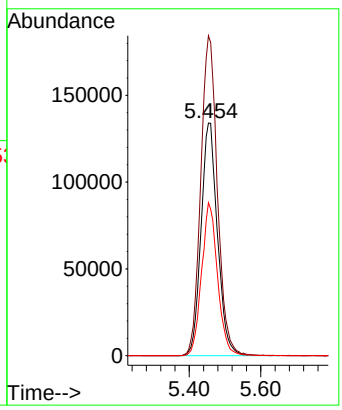





#21
trans-1,2-Dichloroethene
Concen: 147.794 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 96 Resp: 42724

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 137.5 | 106.8 | 160.2 |
| 98 | 65.7 | 49.6 | 74.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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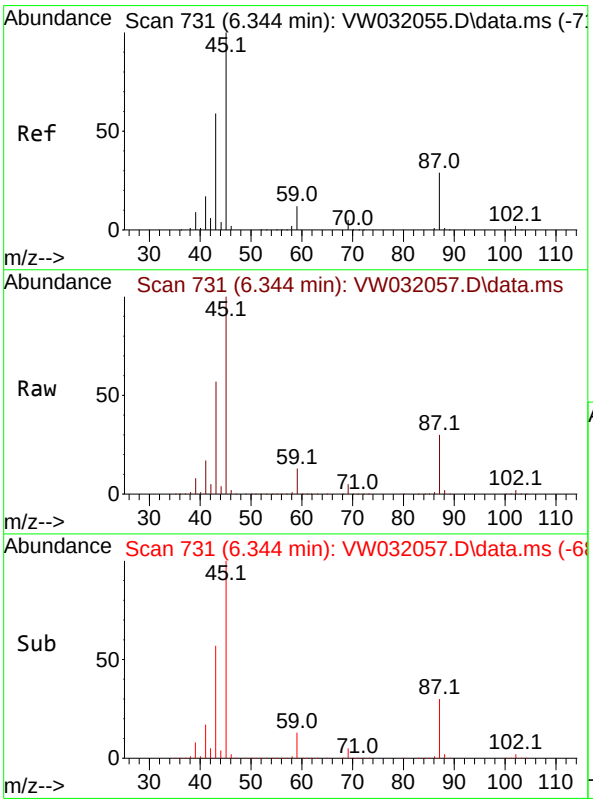
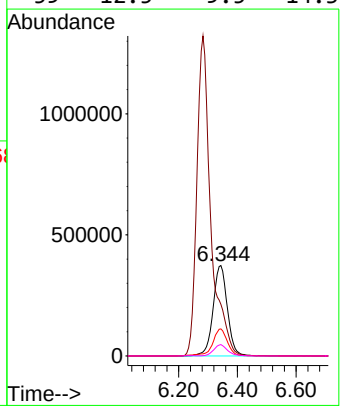
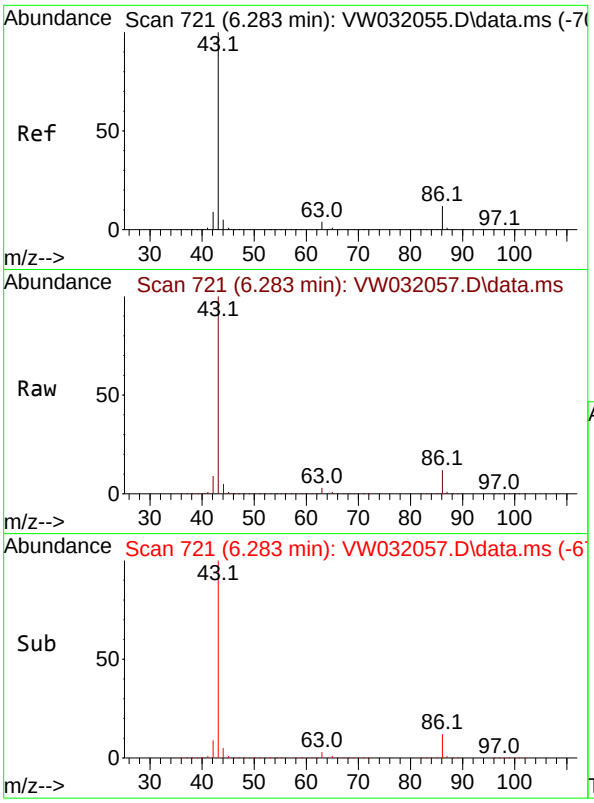



#22
Diisopropyl ether
Concen: 150.866 ug/l
RT: 6.344 min Scan# 731
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 45 Resp: 1260898

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 57.1 | 47.0 | 70.4 |
| 87 | 30.0 | 23.8 | 35.8 |
| 59 | 12.5 | 9.5 | 14.3 |






#23
Vinyl Acetate
Concen: 793.927 ug/l
RT: 6.283 min Scan# 7
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 43 Resp: 435652

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 12.1 | 9.4 | 14.0 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

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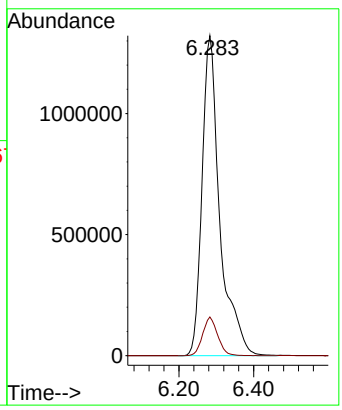
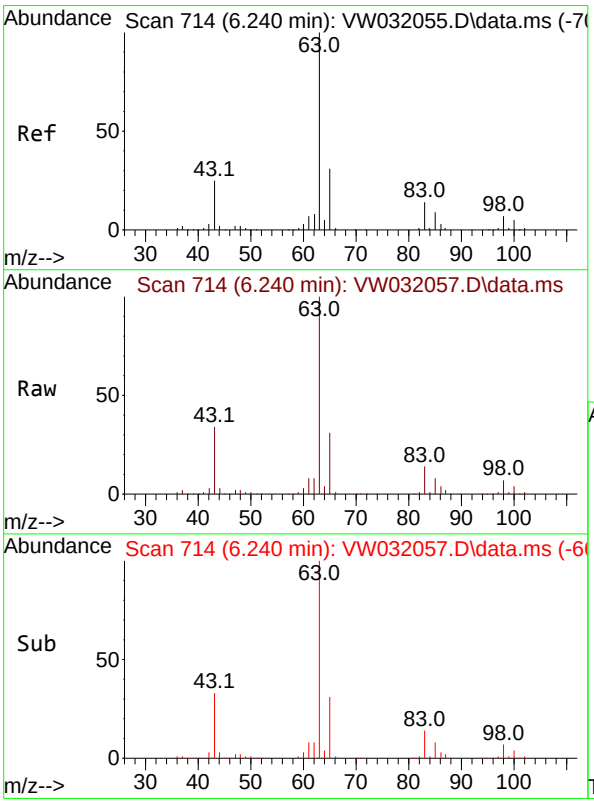
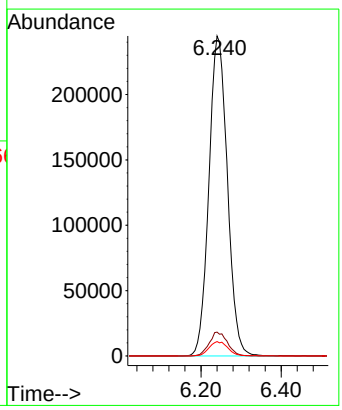


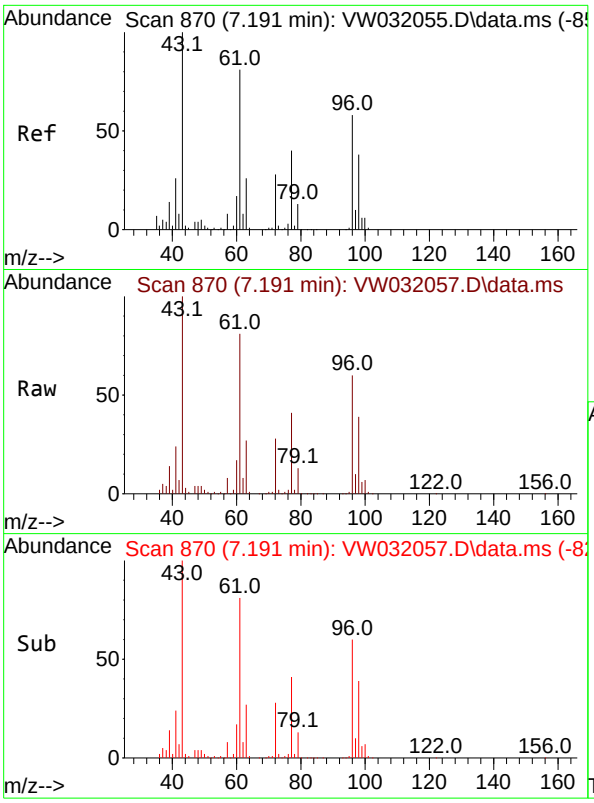




#24
1,1-Dichloroethane
Concen: 146.472 ug/l
RT: 6.240 min Scan# 714
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 63 Resp: 782153

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.5 | 3.7 | 11.1 |
| 100 | 4.5 | 2.5 | 7.4 |

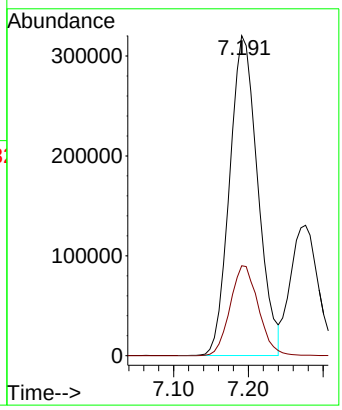





#25
2-Butanone
Concen: 783.936 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 43 Resp: 83799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 28.1 | 22.3 | 33.5 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

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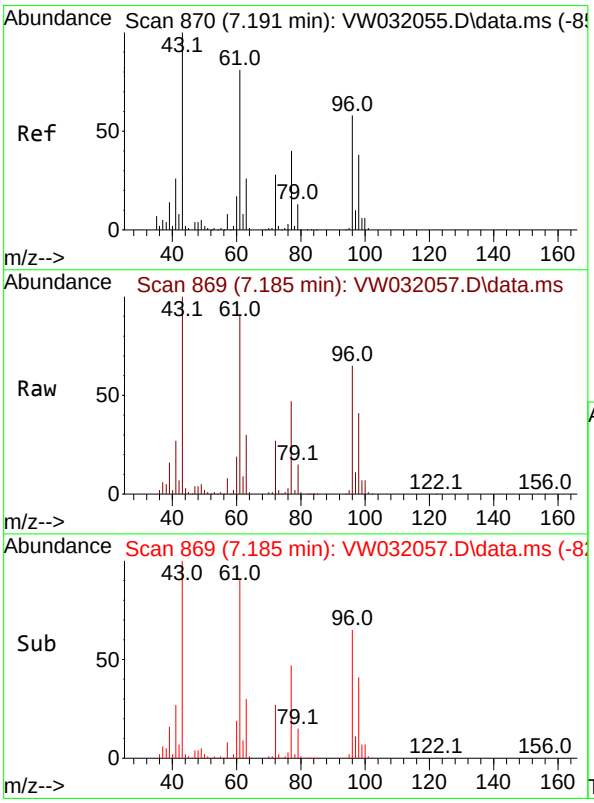
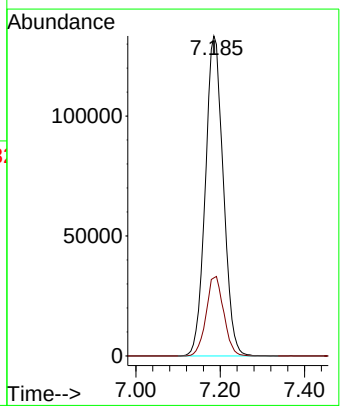
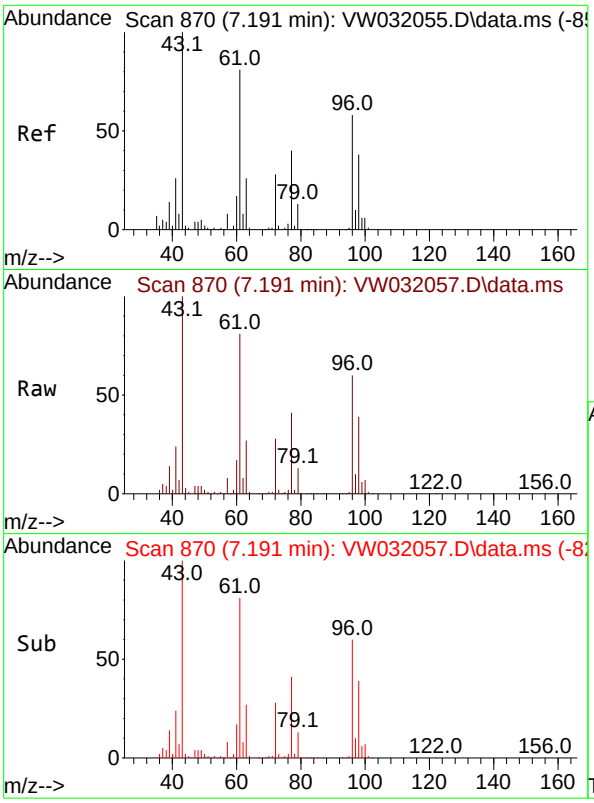



#26
2,2-Dichloropropane
Concen: 147.064 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 77 Resp: 393976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 24.4 | 12.3 | 36.9 |

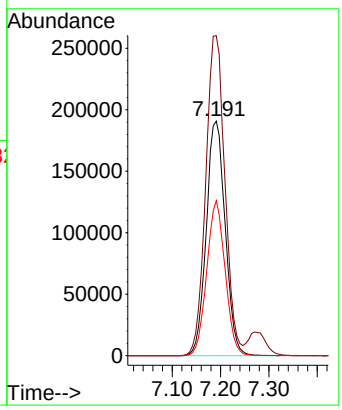





#27
cis-1,2-Dichloroethene
Concen: 153.420 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 96 Resp: 51841

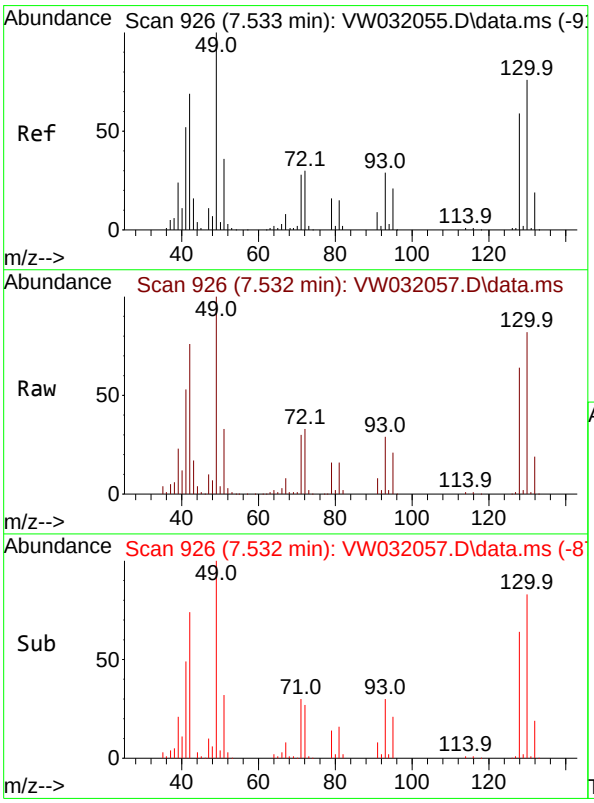
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 138.5 | 0.0 | 281.2 |
| 98 | 64.2 | 0.0 | 130.8 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

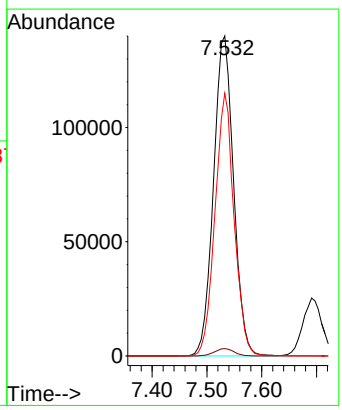
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

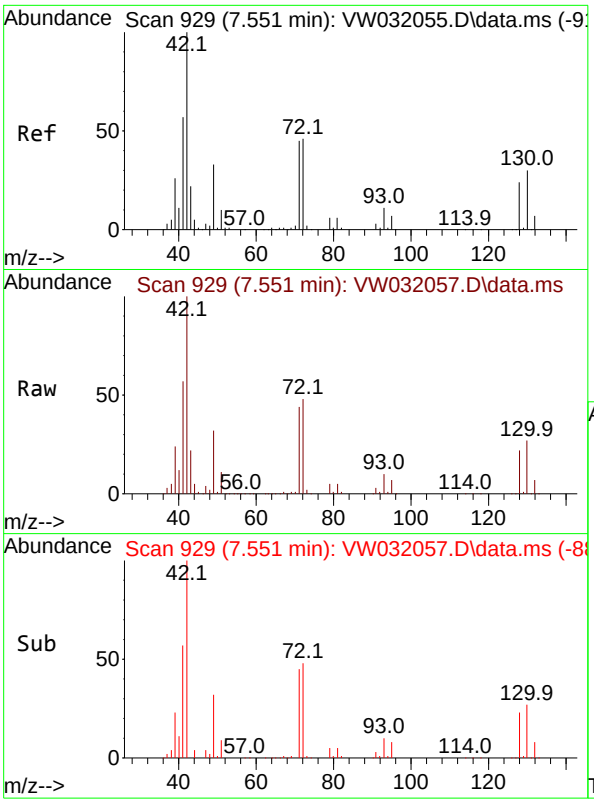



#28
Bromochloromethane
Concen: 146.781 ug/l
RT: 7.532 min Scan# 926
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 49 Resp: 356684

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.2 | 0.0 | 4.2 |
| 130 | 78.3 | 61.9 | 92.9 |

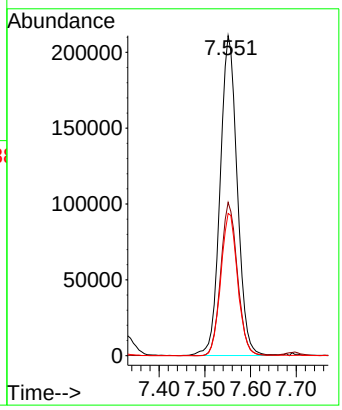





#29
Tetrahydrofuran
Concen: 779.054 ug/l
RT: 7.551 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 42 Resp: 54920

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 46.7 | 36.6 | 55.0 |
| 71 | 43.8 | 34.7 | 52.1 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
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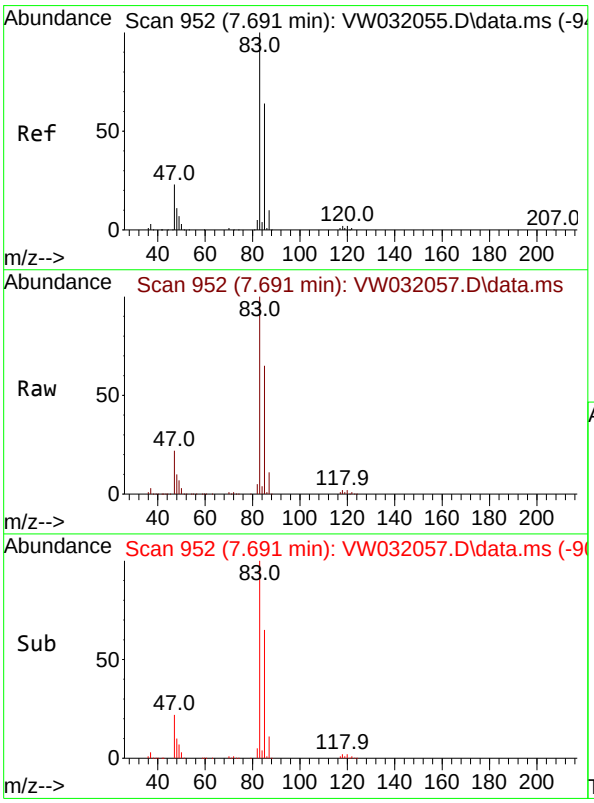
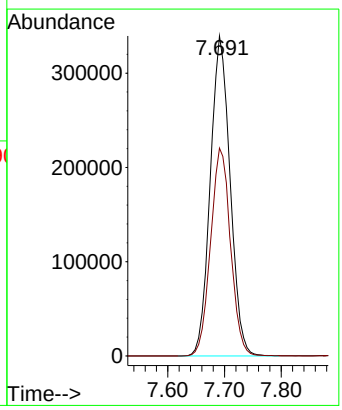
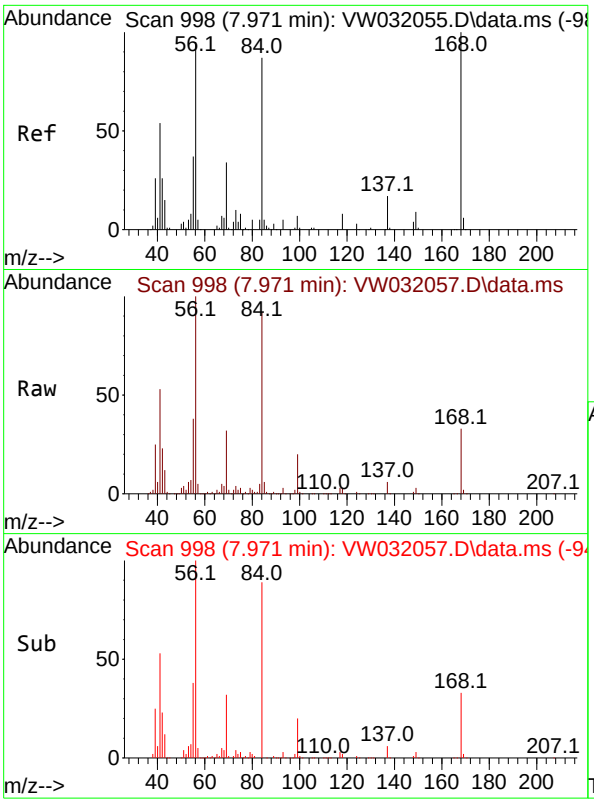



#30
Chloroform
Concen: 145.528 ug/l
RT: 7.691 min Scan# 952
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 83 Resp: 823850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.9 | 51.0 | 76.4 |

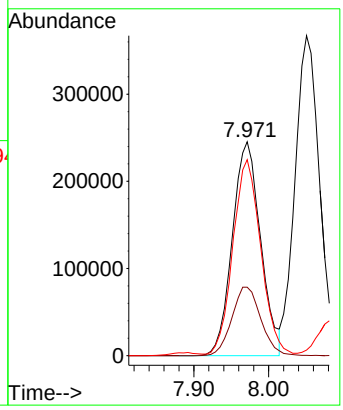





#31
Cyclohexane
Concen: 139.490 ug/l
RT: 7.971 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 56 Resp: 64576

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 32.0 | 28.6 | 42.8 |
| 84 | 90.3 | 73.0 | 109.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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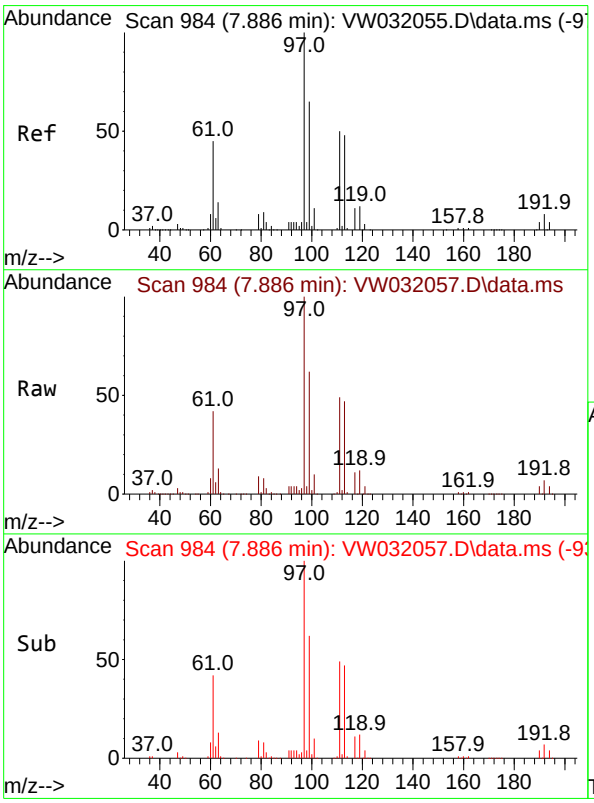
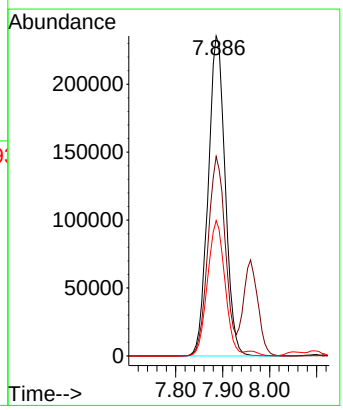
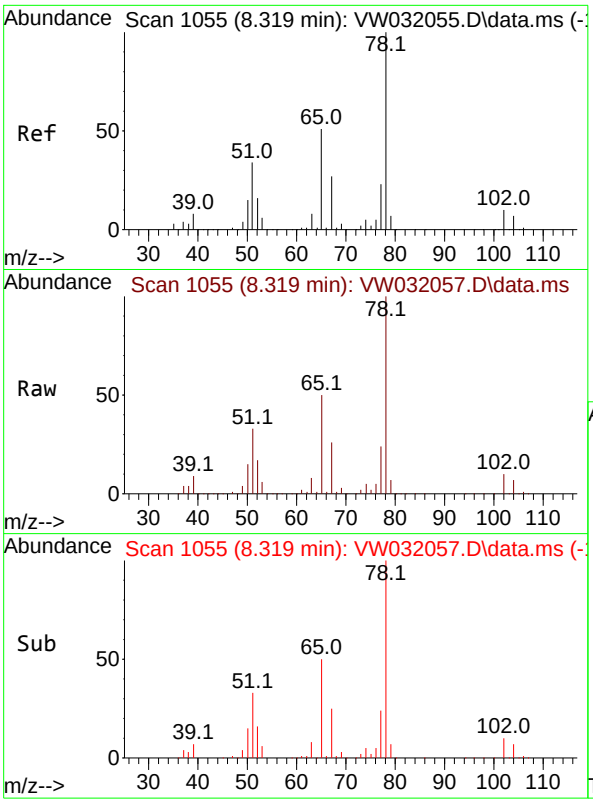



#32
1,1,1-Trichloroethane
Concen: 143.816 ug/l
RT: 7.886 min Scan# 984
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 97 Resp: 591372

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.0 | 51.8 | 77.8 |
| 61 | 43.3 | 35.9 | 53.9 |

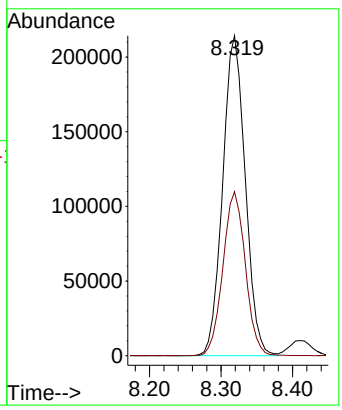





#33
1,2-Dichloroethane-d4
Concen: 144.584 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 65 Resp: 46968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.0 | 0.0 | 102.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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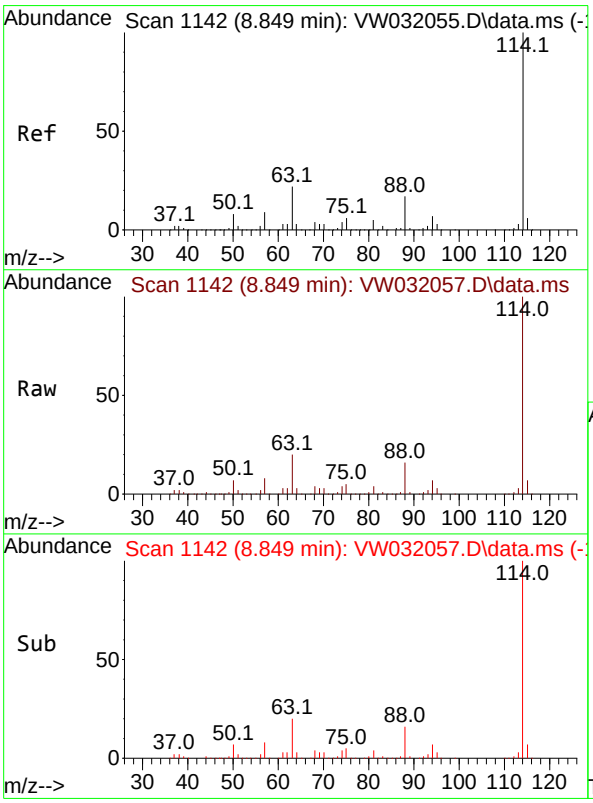
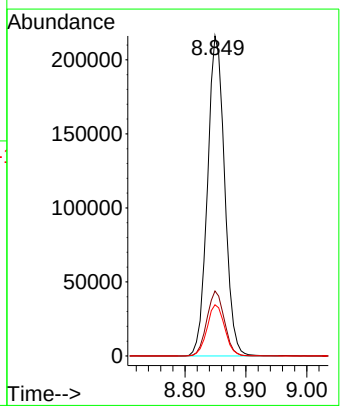
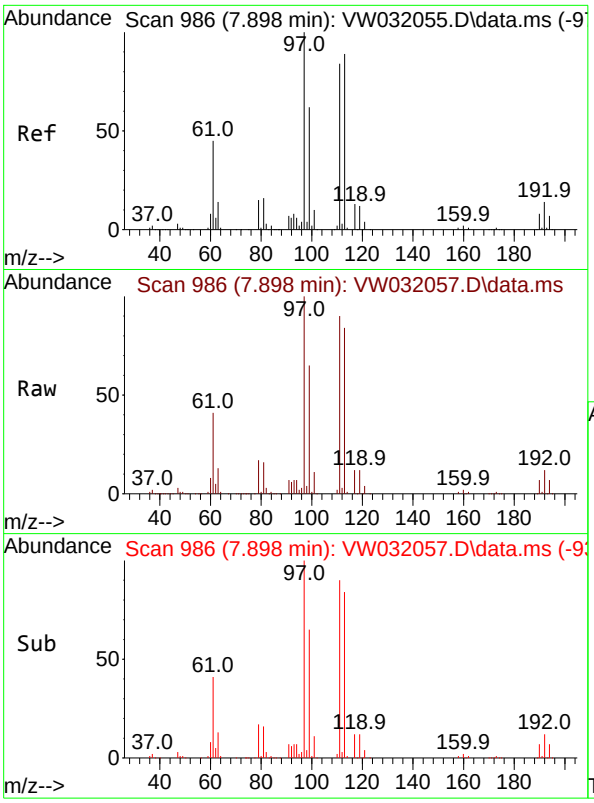



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:114 Resp: 422167

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.3 | 0.0 | 43.0 |
| 88 | 16.0 | 0.0 | 33.8 |

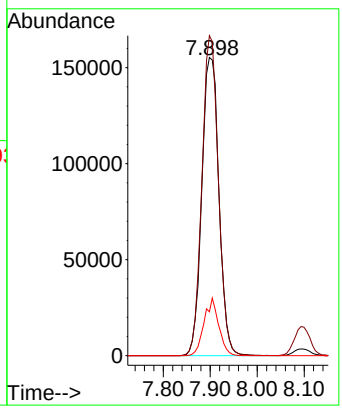





#35
Dibromofluoromethane
Concen: 144.207 ug/l
RT: 7.898 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:113 Resp: 39330

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.0 | 80.1 | 120.1 |
| 192 | 16.5 | 13.1 | 19.7 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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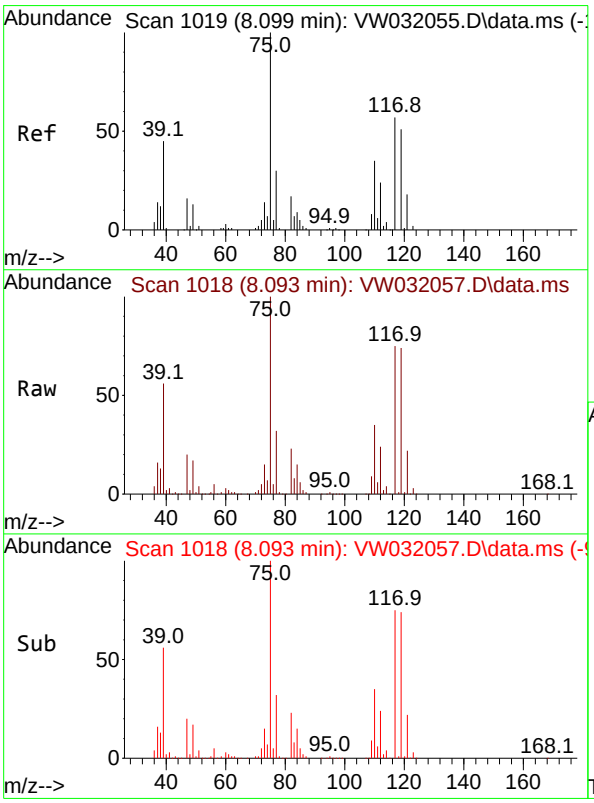
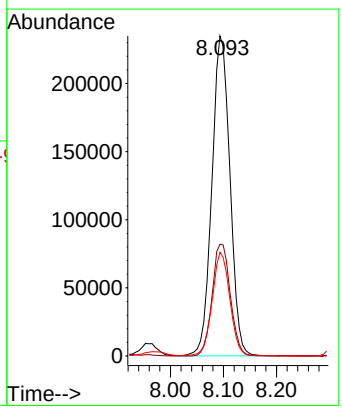
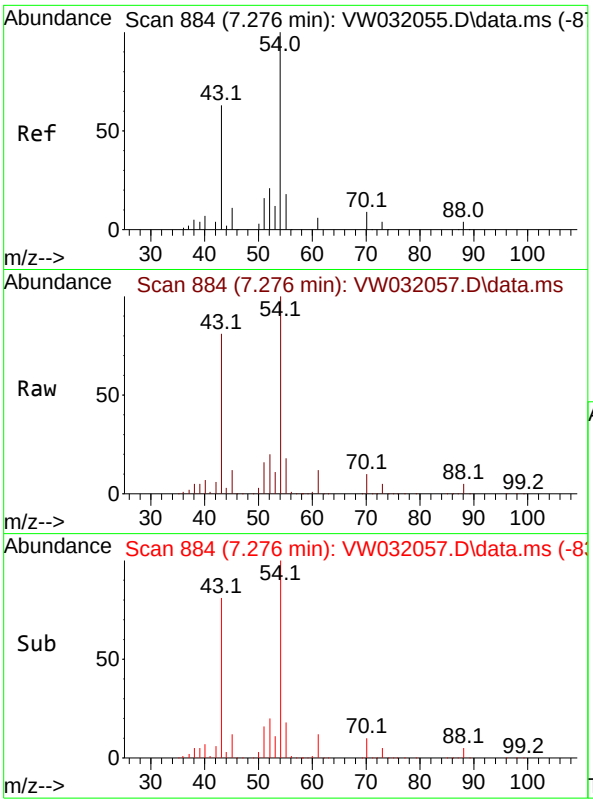



#36
1,1-Dichloropropene
Concen: 144.659 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 75 Resp: 556189

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.2 | 17.4 | 52.2 |
| 77 | 31.7 | 24.7 | 37.1 |






#37
Ethyl Acetate
Concen: 154.109 ug/l
RT: 7.276 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 43 Resp: 34897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.4 | 11.8 | 17.6 |
| 70 | 11.8 | 9.4 | 14.0 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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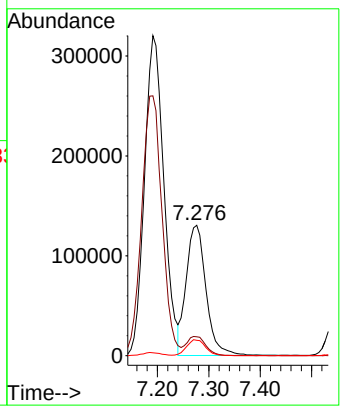
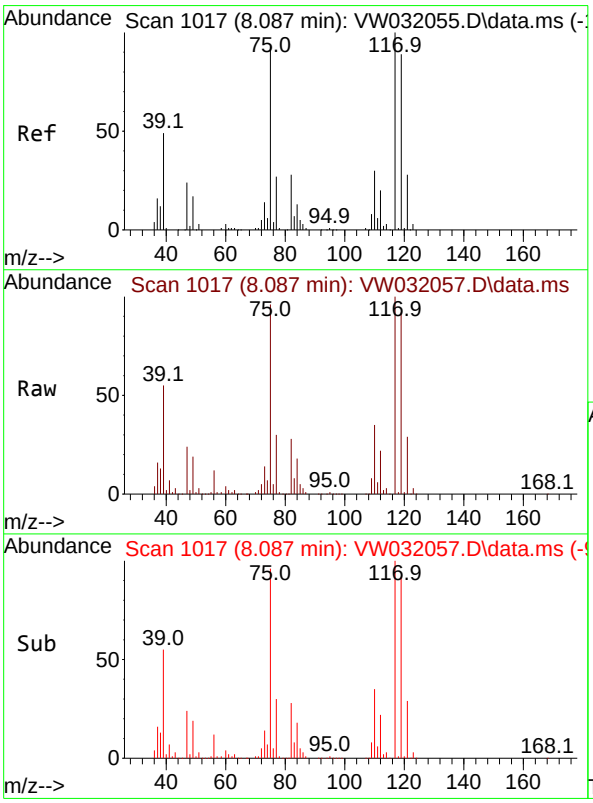
Supervised By :Semsettin Yesilyurt 08/12/2025

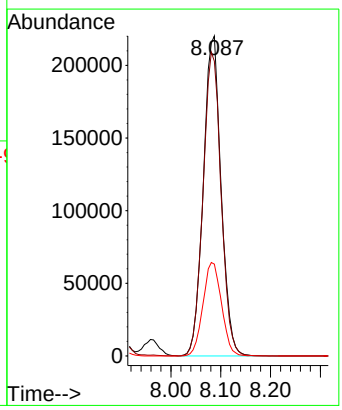


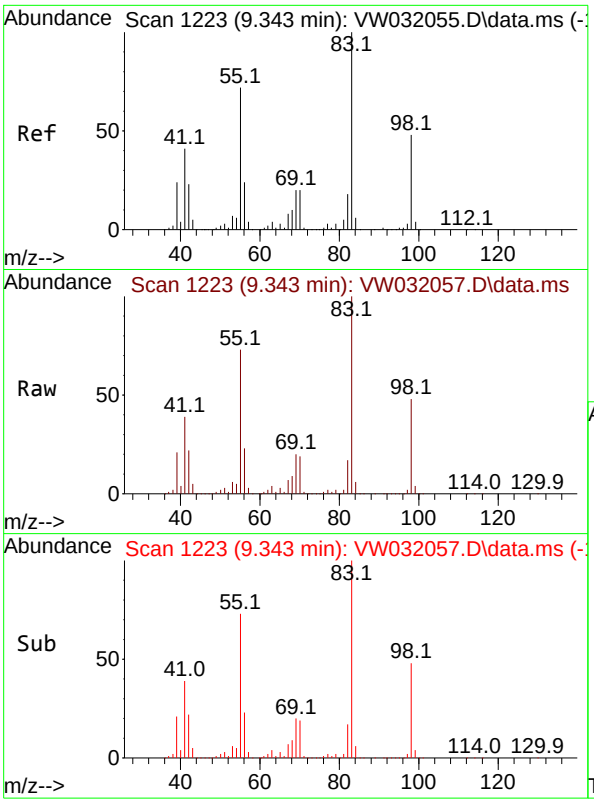




#38
Carbon Tetrachloride
Concen: 146.799 ug/l
RT: 8.087 min Scan# 1017
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:117 Resp: 544688

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 92.1 | 71.4 | 107.2 |
| 121 | 28.7 | 22.3 | 33.5 |

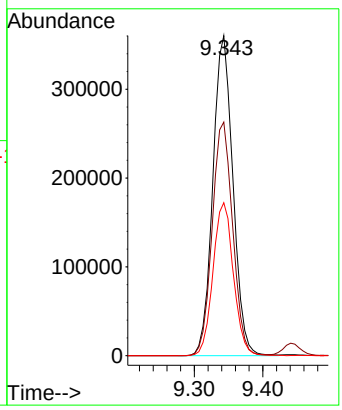





#39
Methylcyclohexane
Concen: 156.286 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 83 Resp: 73241

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 73.0 | 57.9 | 86.9 |
| 98 | 47.8 | 38.3 | 57.5 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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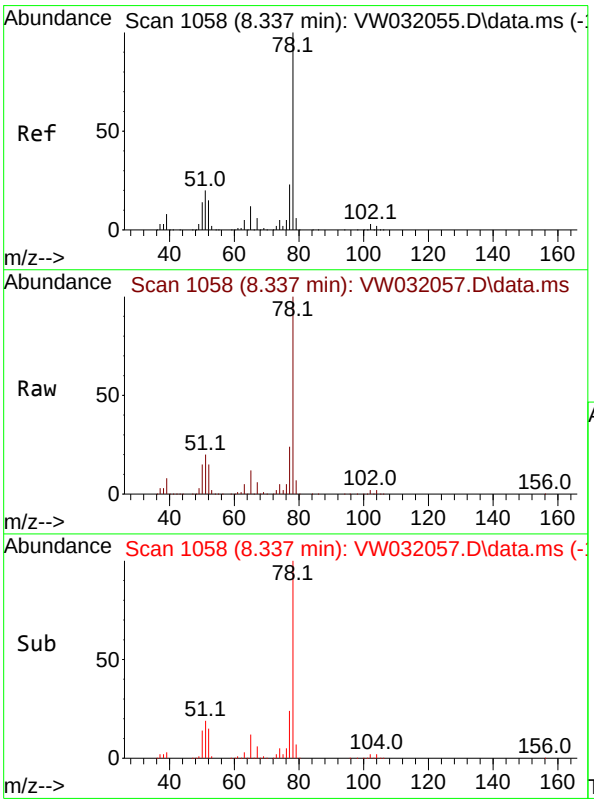
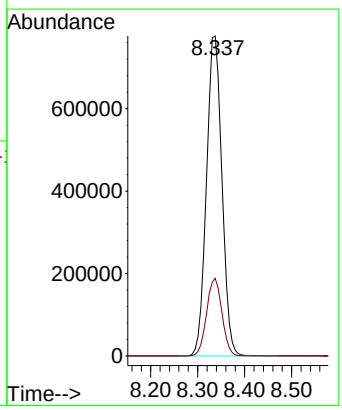
Supervised By :Semsettin Yesilyurt 08/12/2025

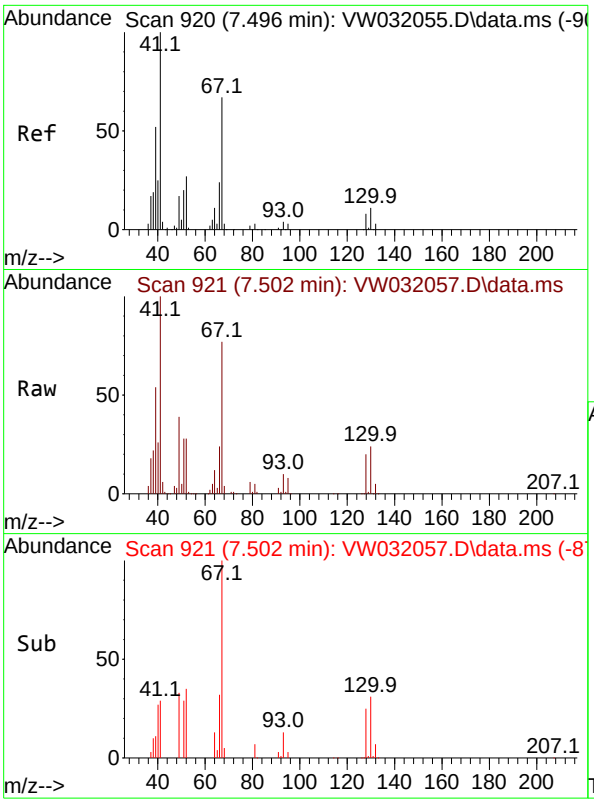



#40
Benzene
Concen: 148.159 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 78 Resp: 1770706

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.3 | 18.4 | 27.6 |

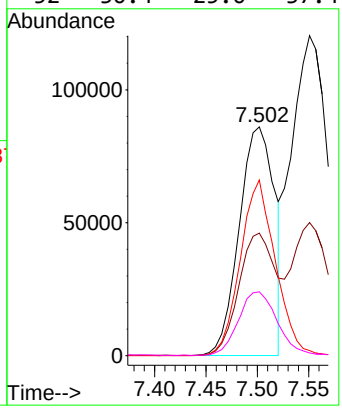





#41
Methacrylonitrile
Concen: 160.204 ug/l
RT: 7.502 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 41 Resp: 20572

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 58.7 | 42.6 | 63.8 |
| 67 | 76.7 | 61.0 | 91.4 |
| 52 | 30.4 | 25.0 | 37.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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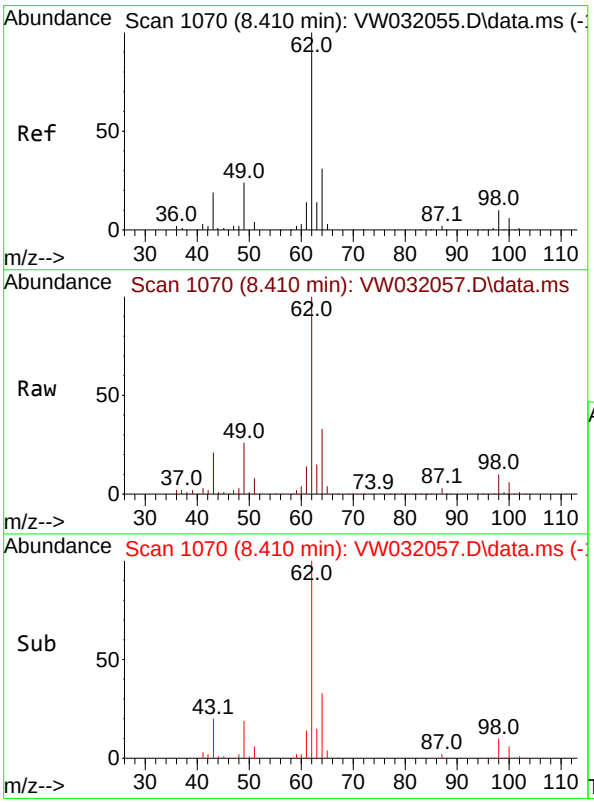
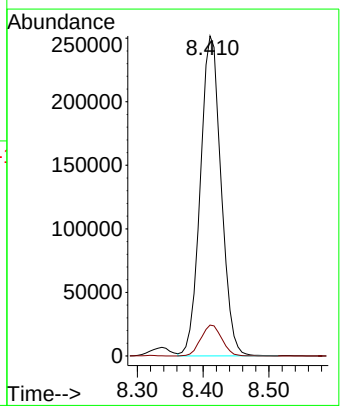
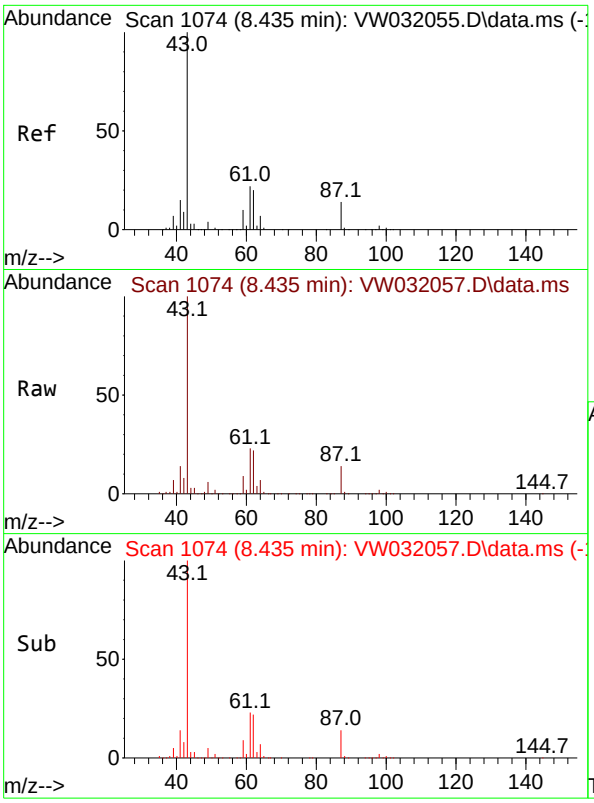



#42
1,2-Dichloroethane
Concen: 144.388 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 62 Resp: 552184

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.8 | 0.0 | 19.8 |






#43
Isopropyl Acetate
Concen: 159.788 ug/l
RT: 8.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 43 Resp: 66571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 29.7 | 23.8 | 35.8 |
| 87 | 14.5 | 11.7 | 17.5 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

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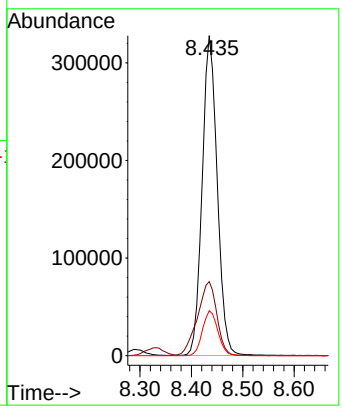
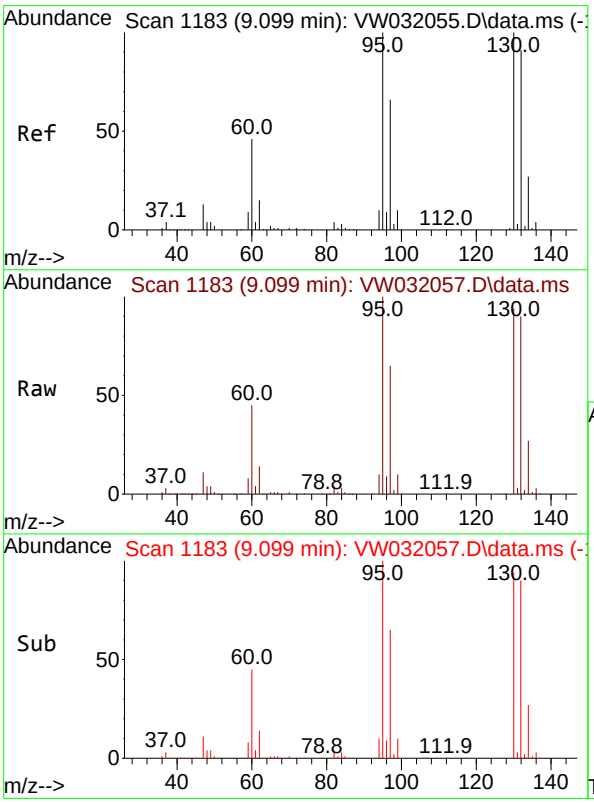
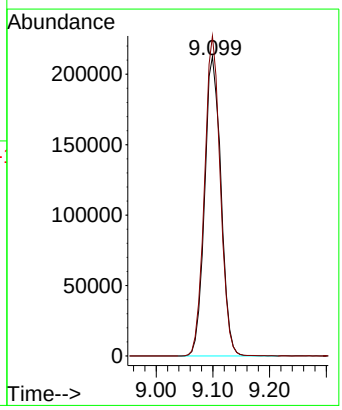


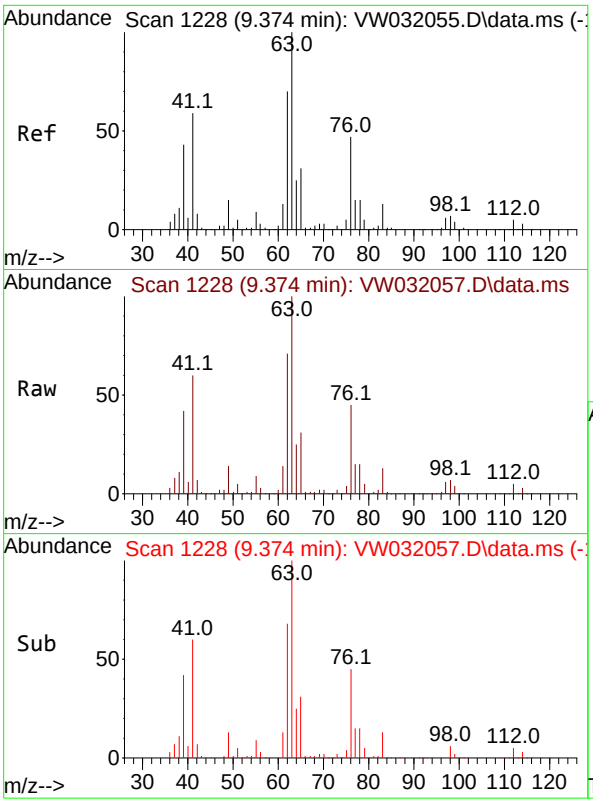




#44
Trichloroethene
Concen: 149.281 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:130 Resp: 424873

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 106.9 | 0.0 | 200.6 |

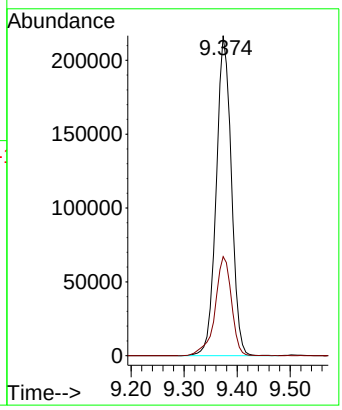





#45
1,2-Dichloropropane
Concen: 148.679 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 63 Resp: 42928

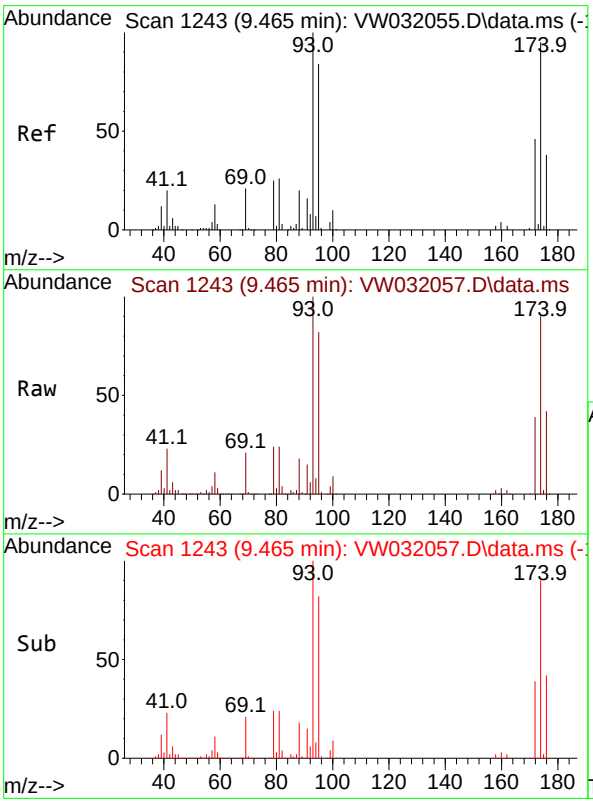
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.9 | 24.6 | 36.8 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

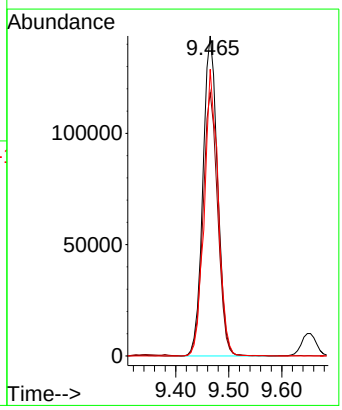
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

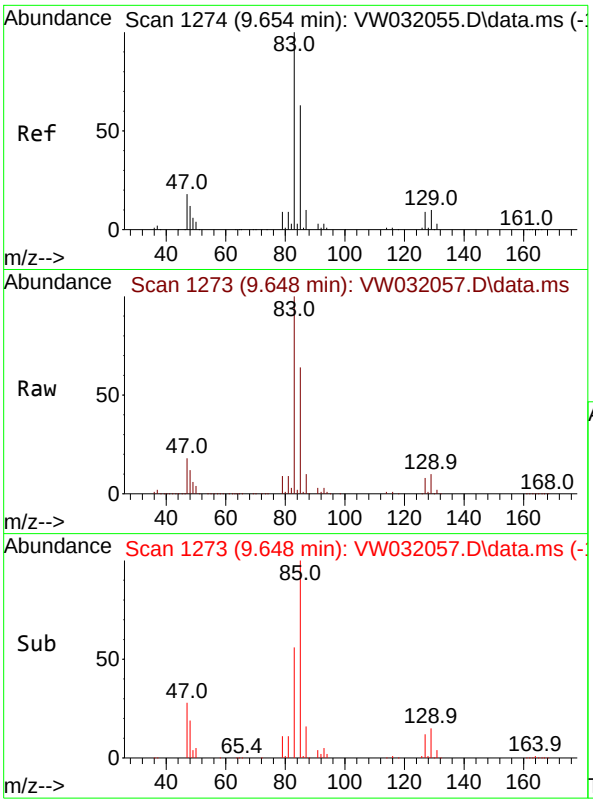



#46
Dibromomethane
Concen: 148.678 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 93 Resp: 277058

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.2 | 65.3 | 97.9 |
| 174 | 84.7 | 68.6 | 102.8 |

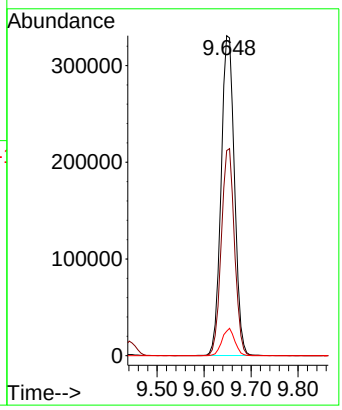





#47
Bromodichloromethane
Concen: 152.185 ug/l
RT: 9.648 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 83 Resp: 65347

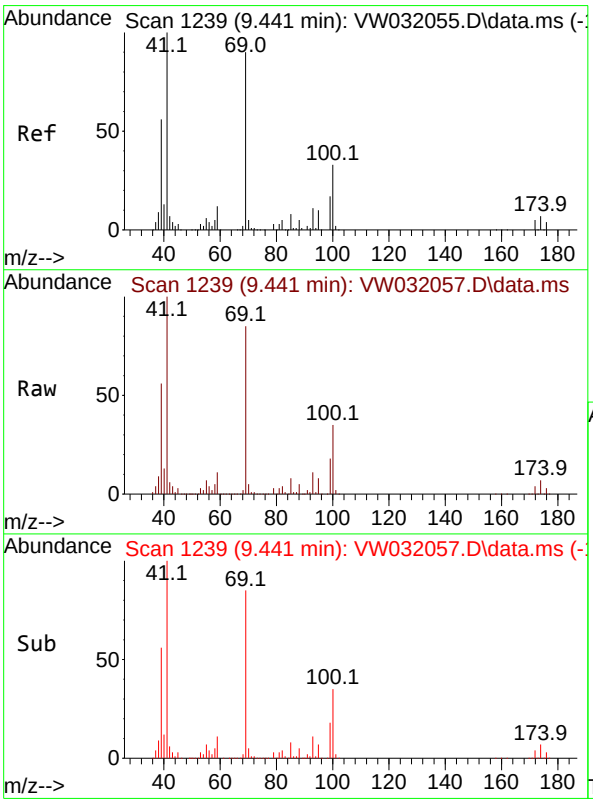
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.1 | 50.6 | 75.8 |
| 127 | 7.7 | 6.9 | 10.3 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

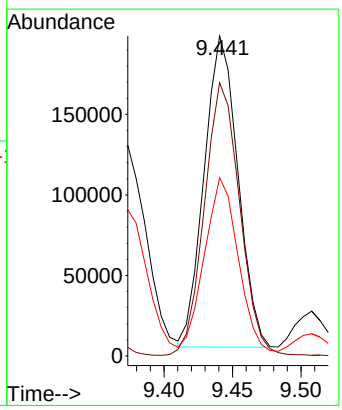
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

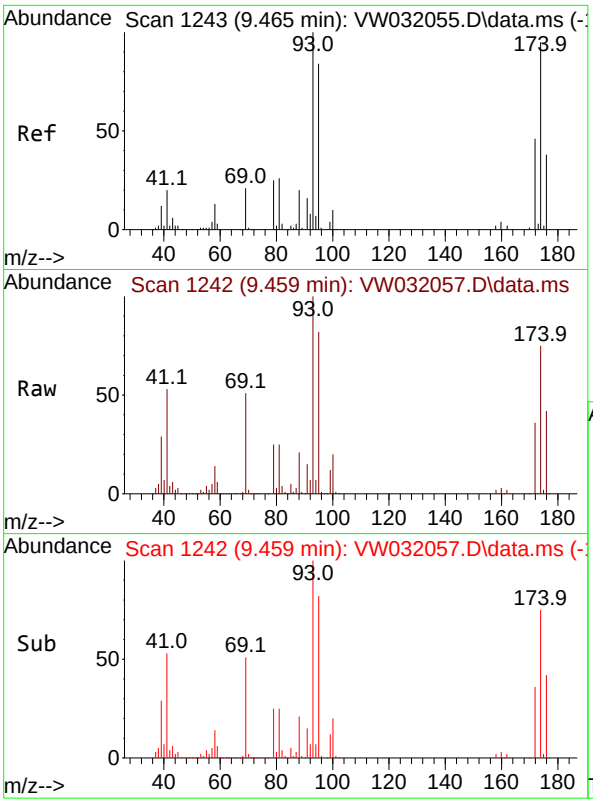



#48
Methyl methacrylate
Concen: 164.326 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 41 Resp: 330511

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 92.4 | 73.0 | 109.6 |
| 39 | 55.2 | 45.0 | 67.4 |






#49
1,4-Dioxane
Concen: 3279.484 ug/l
RT: 9.459 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 88 Resp: 7901

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 0.0 | 20.6 | 30.8# |
| 58 | 70.8 | 60.4 | 90.6 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
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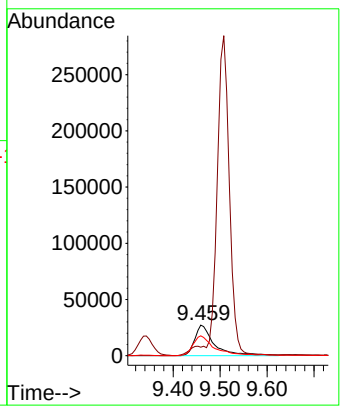
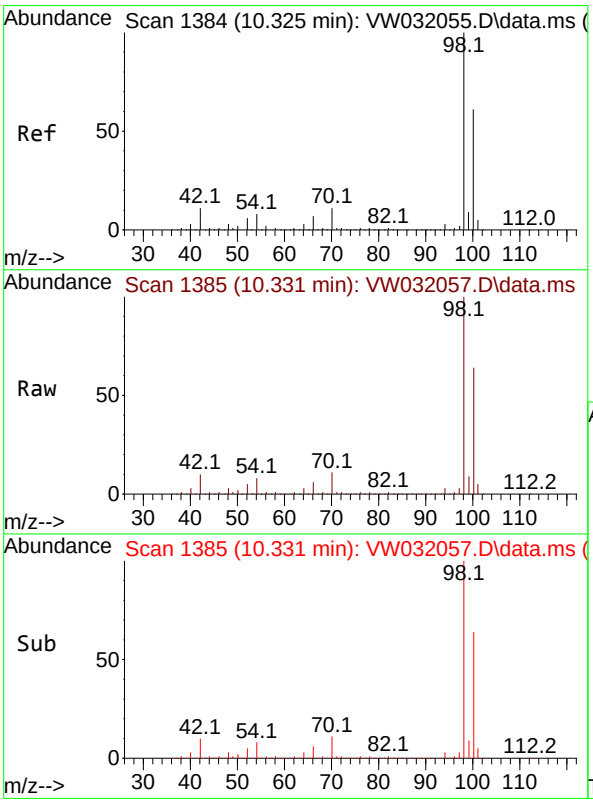
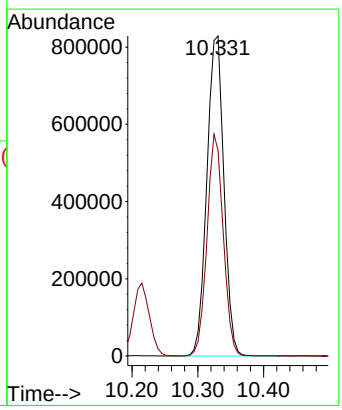


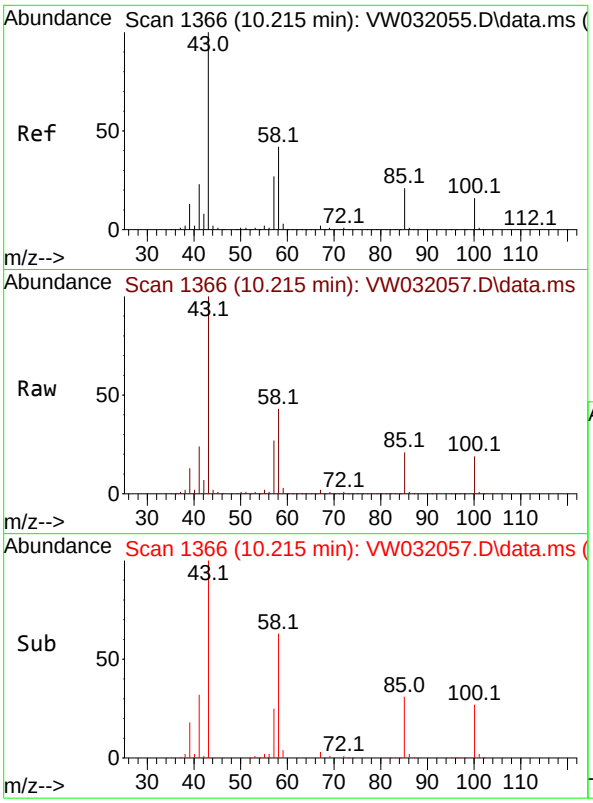




#50
Toluene-d8
Concen: 147.908 ug/l
RT: 10.331 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 98 Resp: 1492050

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.0 | 51.1 | 76.7 |

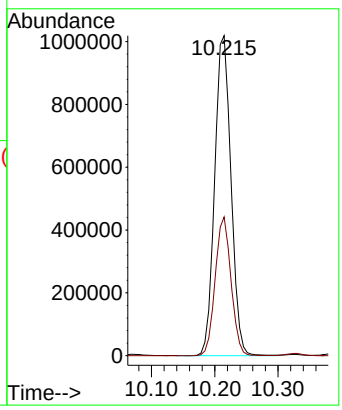





#51
4-Methyl-2-Pentanone
Concen: 772.800 ug/l
RT: 10.215 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 43 Resp: 181727

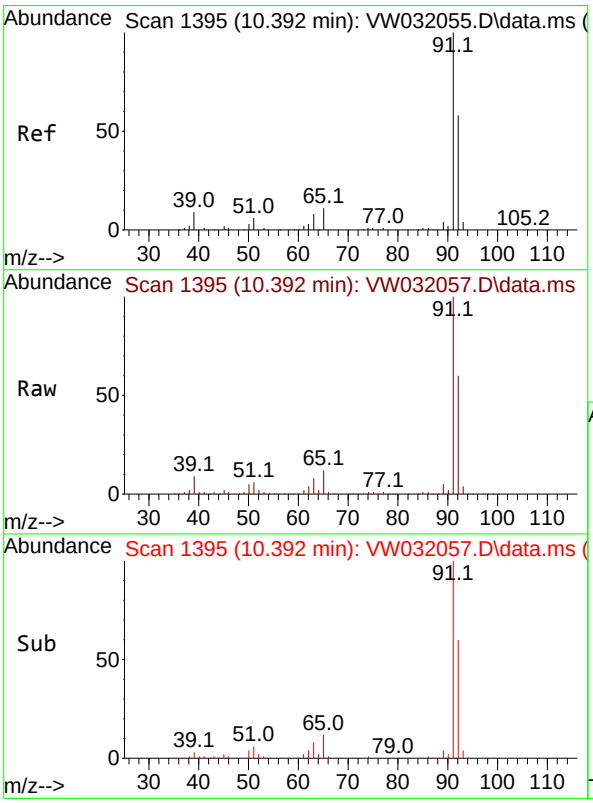
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 42.0 | 33.1 | 49.7 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

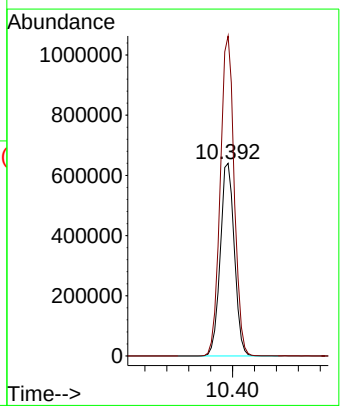
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

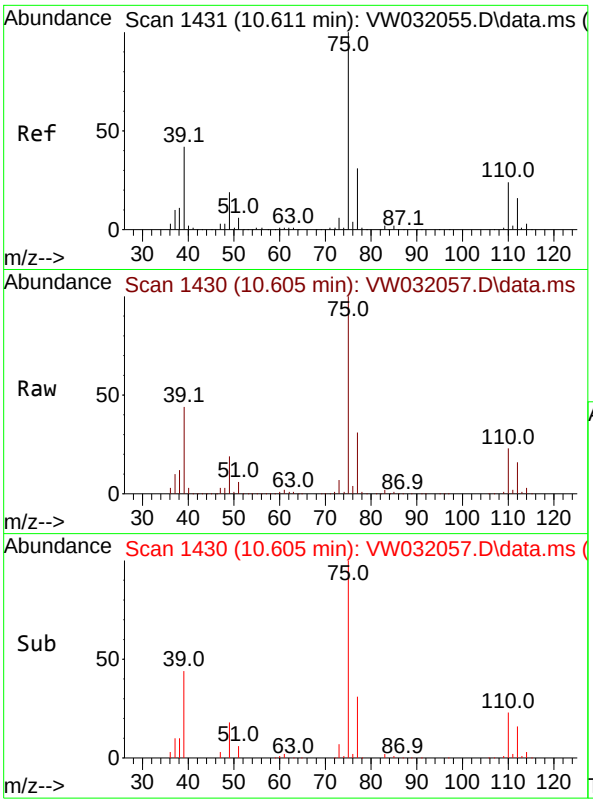



#52
Toluene
Concen: 151.812 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 92 Resp: 1142813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 164.7 | 136.3 | 204.5 |

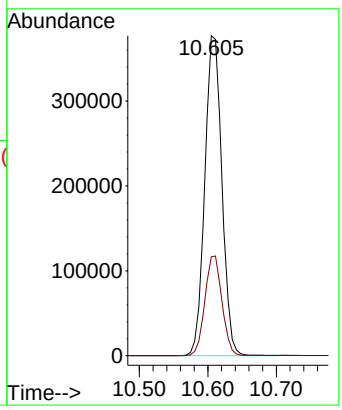





#53
t-1,3-Dichloropropene
Concen: 162.760 ug/l
RT: 10.605 min Scan# 14
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 75 Resp: 65476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.9 | 25.0 | 37.6 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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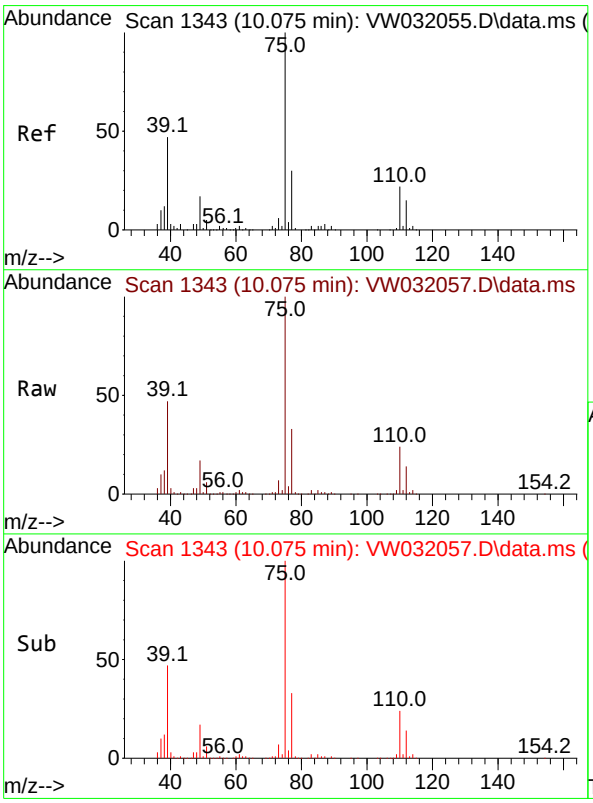
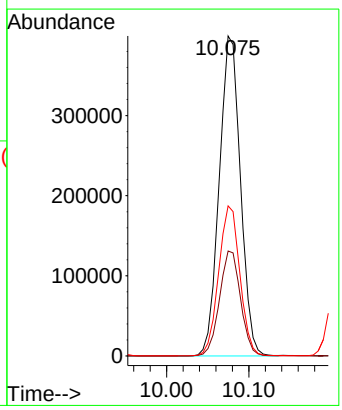
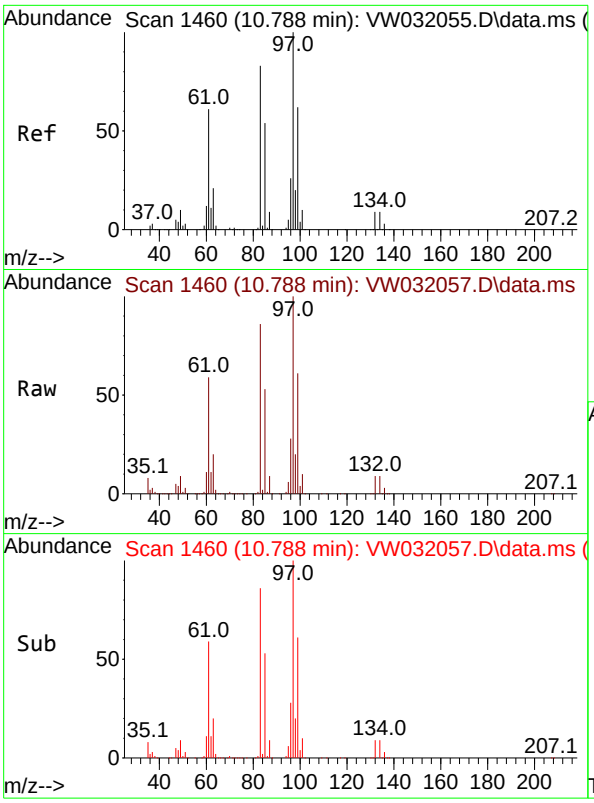



#54
cis-1,3-Dichloropropene
Concen: 157.011 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 75 Resp: 716583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.8 | 24.0 | 36.0 |
| 39 | 46.9 | 37.8 | 56.8 |

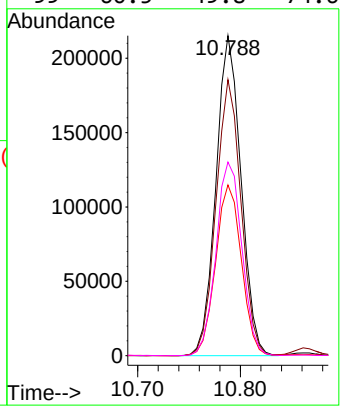





#55
1,1,2-Trichloroethane
Concen: 147.271 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 97 Resp: 36468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 86.3 | 66.4 | 99.6 |
| 85 | 53.3 | 43.1 | 64.7 |
| 99 | 60.5 | 49.8 | 74.6 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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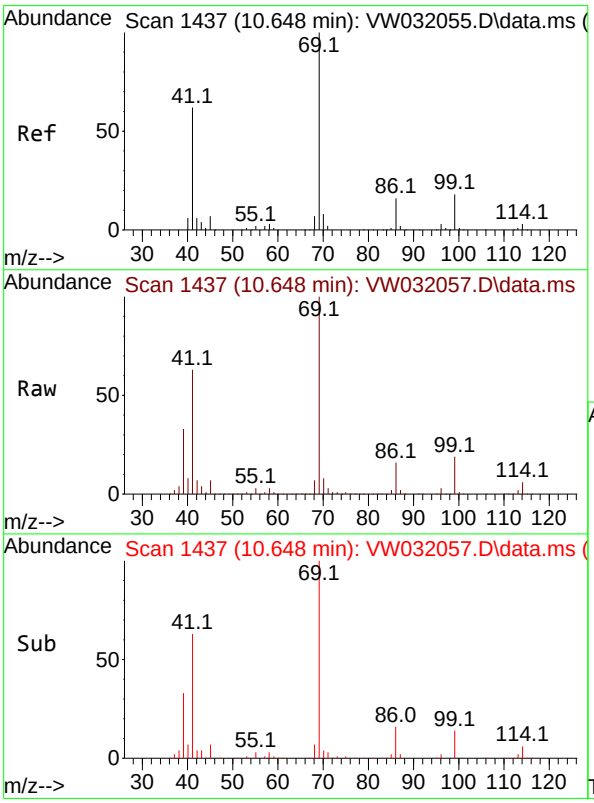
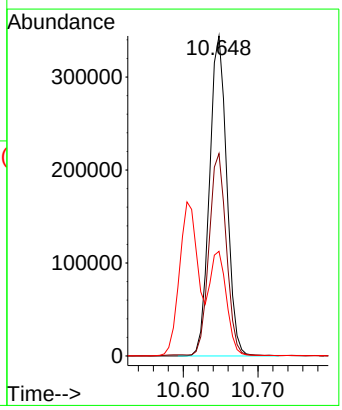
Supervised By :Semsettin Yesilyurt 08/12/2025

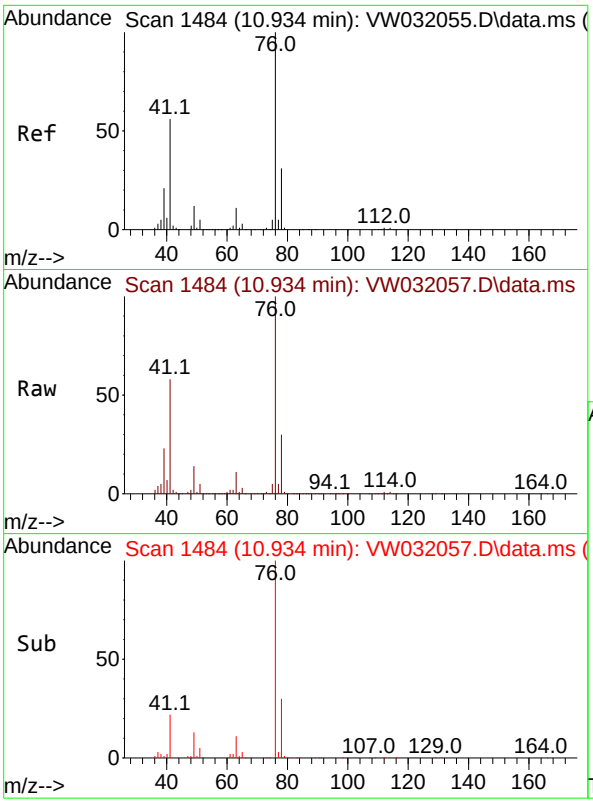



#56
Ethyl methacrylate
Concen: 166.963 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 69 Resp: 553265

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 62.9 | 51.2 | 76.8 |
| 39 | 30.8 | 25.4 | 38.0 |

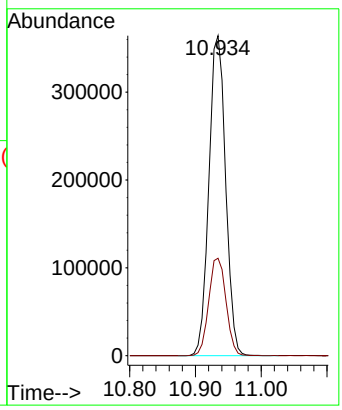





#57
1,3-Dichloropropane
Concen: 149.298 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 76 Resp: 64441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 31.5 | 25.8 | 38.6 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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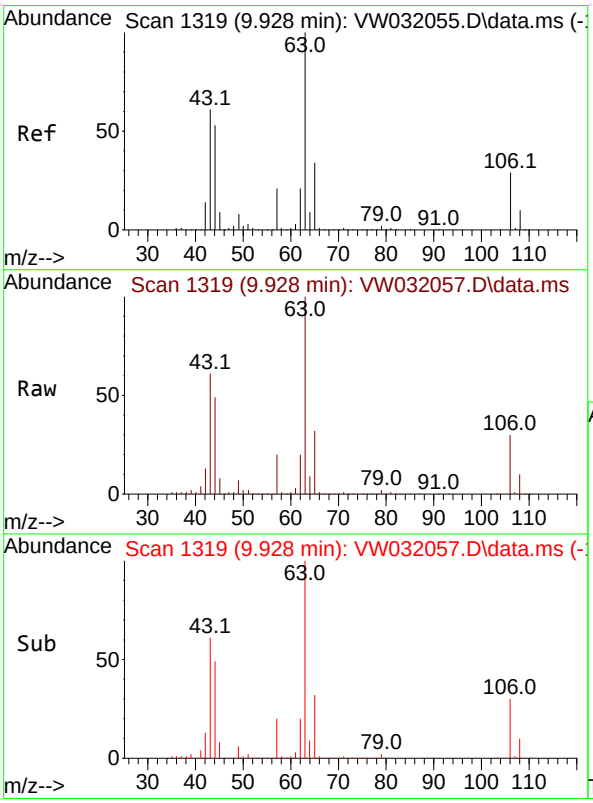
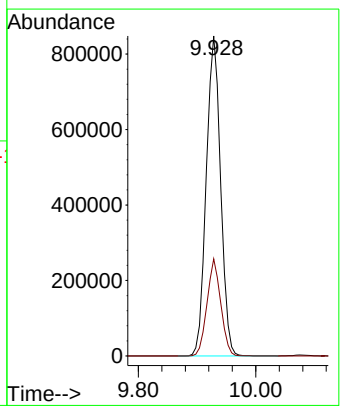
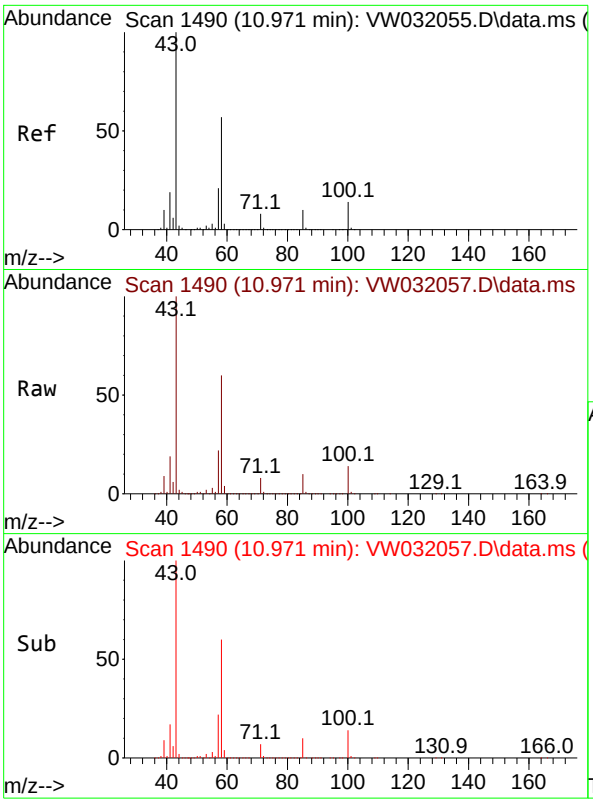



#58
2-Chloroethyl Vinyl ether
Concen: 784.377 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 63 Resp: 1437682

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 29.0 | 23.5 | 35.3 |






#59
2-Hexanone
Concen: 785.288 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 43 Resp: 127891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 58.3 | 28.3 | 85.0 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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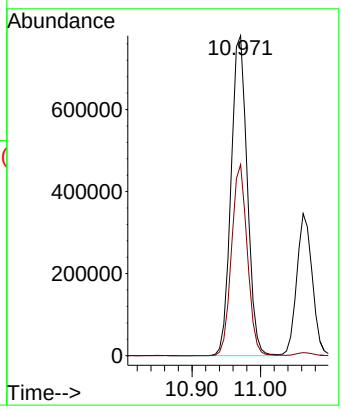
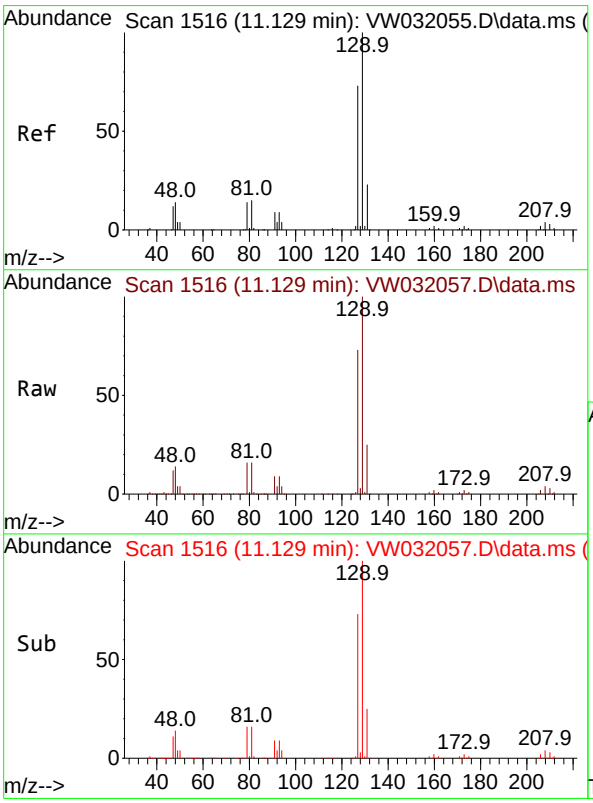
Supervised By :Semsettin Yesilyurt 08/12/2025

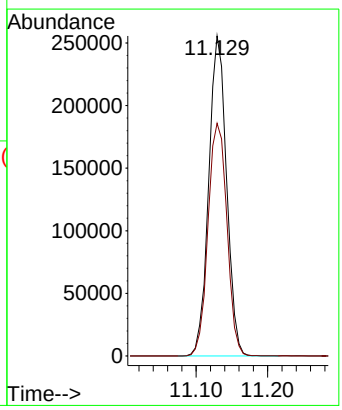


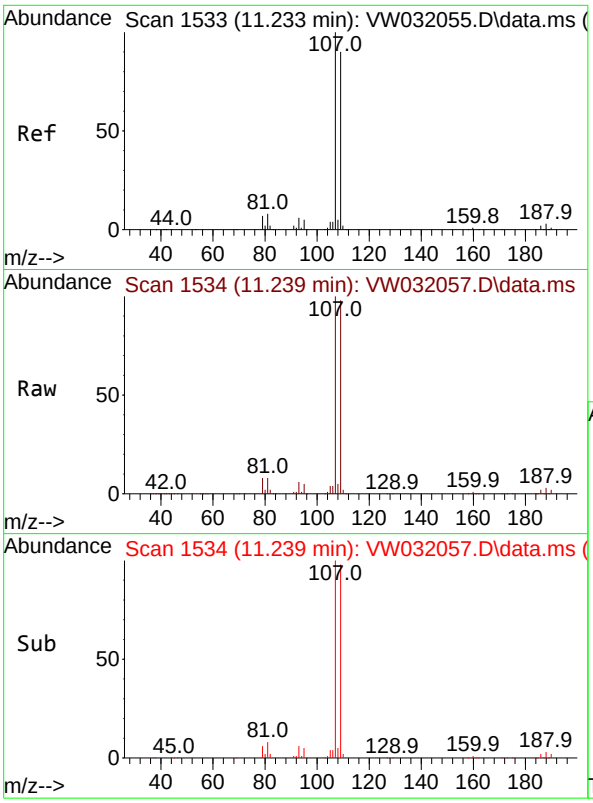




#60
Dibromochloromethane
Concen: 156.387 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:129 Resp: 442362

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.1 | 39.0 | 116.9 |

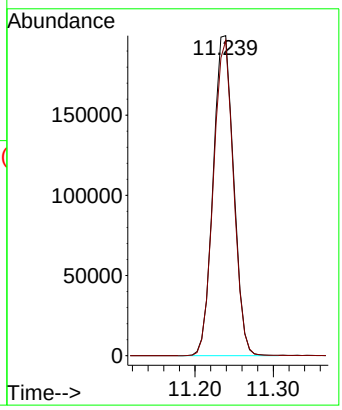





#61
1,2-Dibromoethane
Concen: 150.929 ug/l
RT: 11.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:107 Resp: 36319

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 96.5 | 74.2 | 111.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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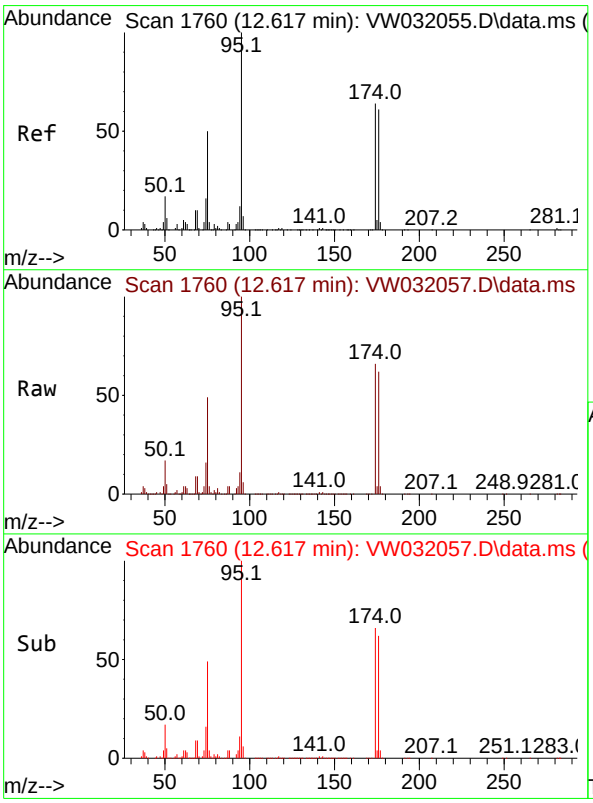
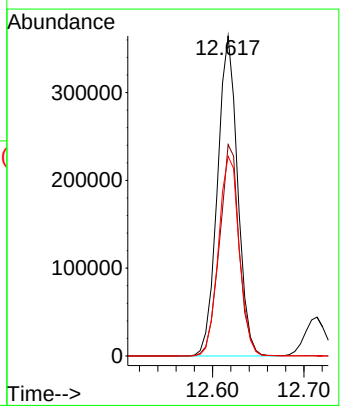
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

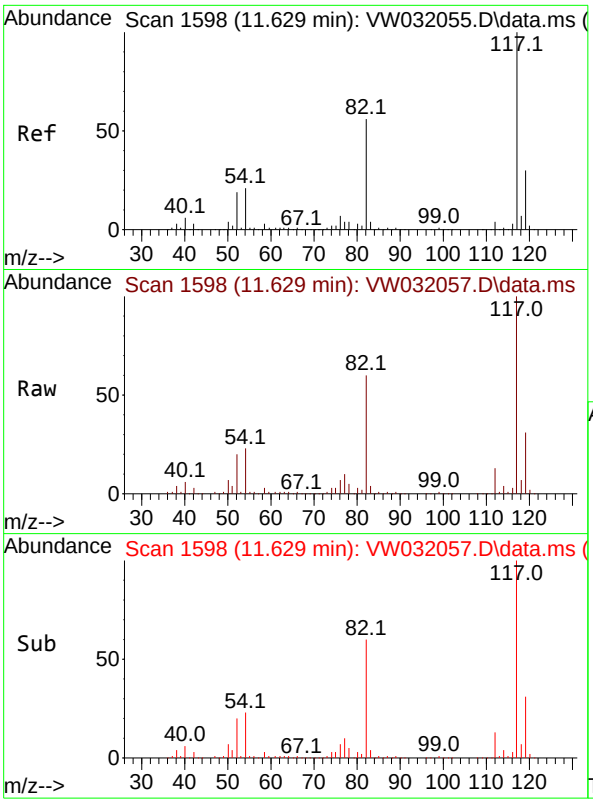



#62
4-Bromofluorobenzene
Concen: 150.185 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 95 Resp: 558308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 64.8 | 0.0 | 129.0 |
| 176 | 64.5 | 0.0 | 124.6 |

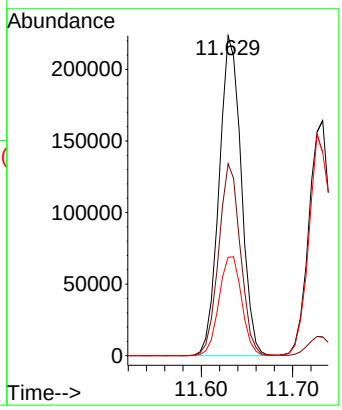





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:117 Resp: 37527

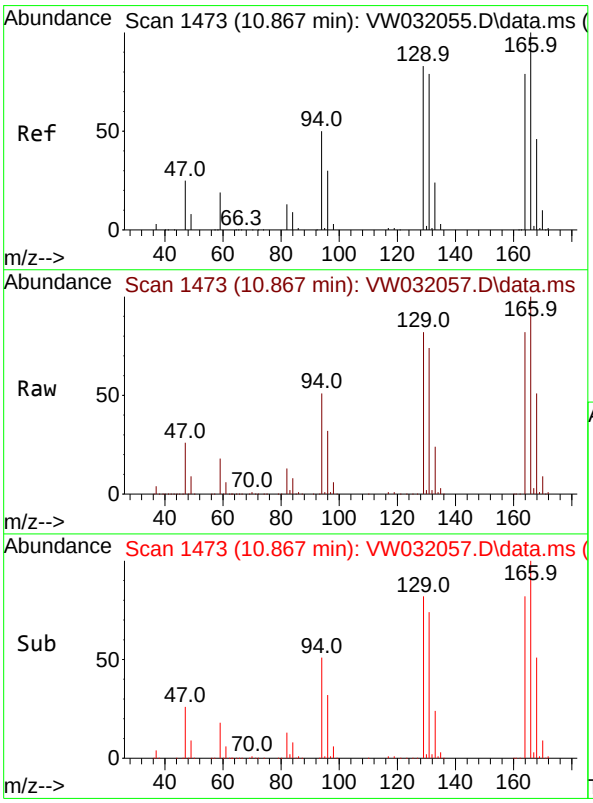
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 59.9 | 45.0 | 67.4 |
| 119 | 30.8 | 24.2 | 36.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

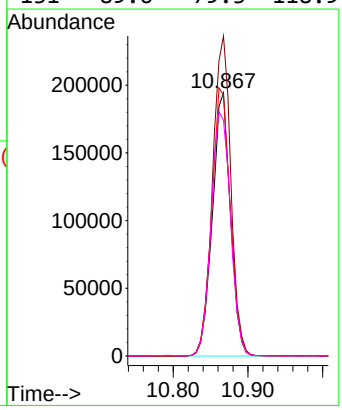
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

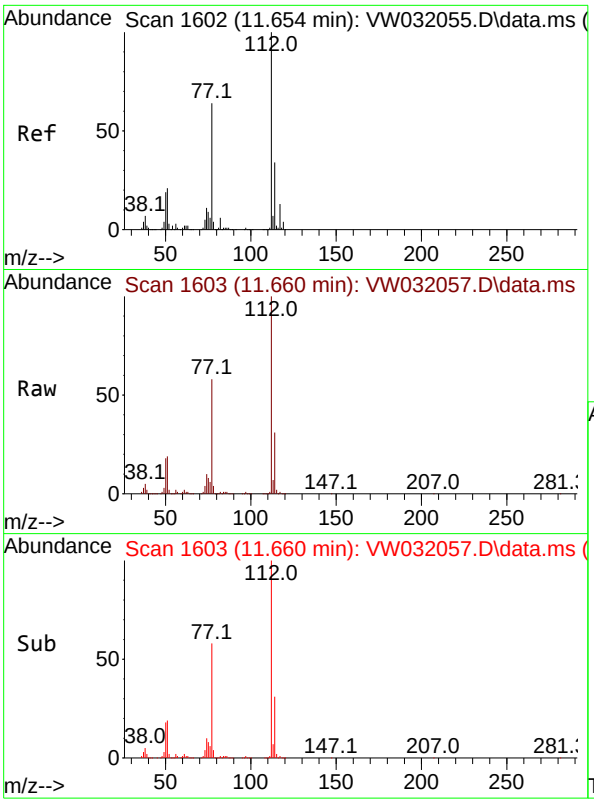



#64
Tetrachloroethene
Concen: 150.622 ug/l
RT: 10.867 min Scan# 1473
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:164 Resp: 326491

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 121.6 | 100.9 | 151.3 |
| 129 | 99.3 | 83.6 | 125.4 |
| 131 | 89.6 | 79.3 | 118.9 |

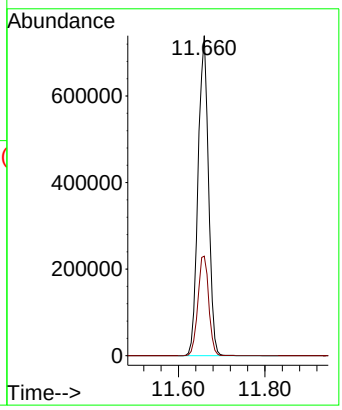





#65
Chlorobenzene
Concen: 150.609 ug/l
RT: 11.660 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:112 Resp: 123024

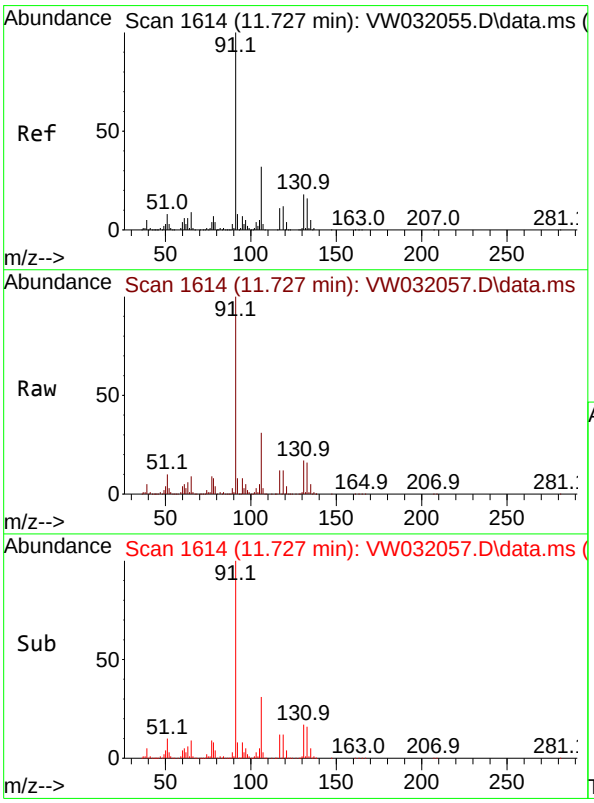
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.1 | 26.9 | 40.3 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

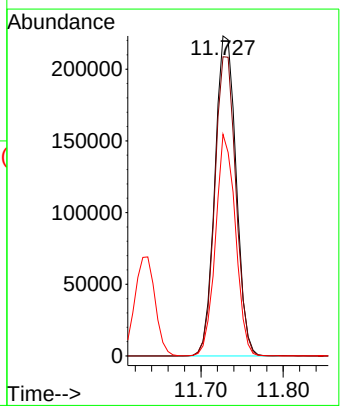
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

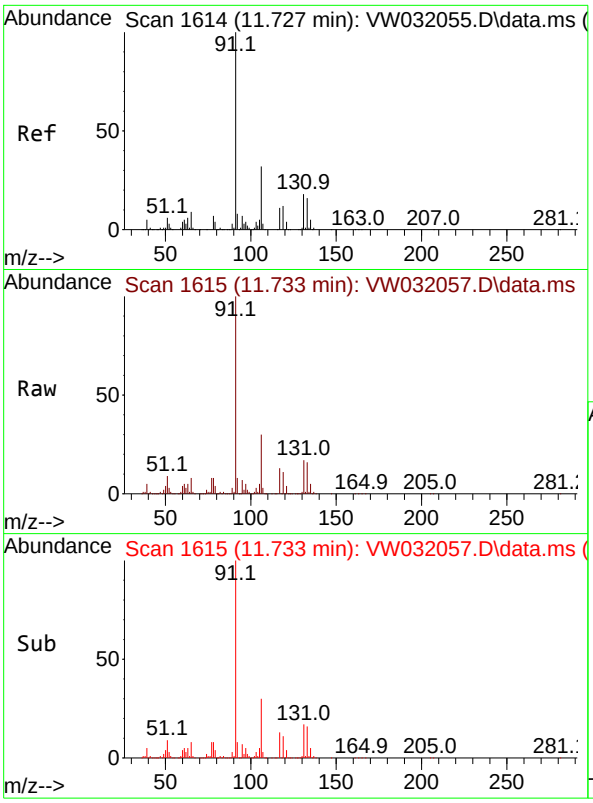



#66
1,1,1,2-Tetrachloroethane
Concen: 157.017 ug/l
RT: 11.727 min Scan# 1614
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:131 Resp: 400167

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 93.2 | 47.3 | 142.0 |
| 119 | 65.0 | 34.5 | 103.5 |

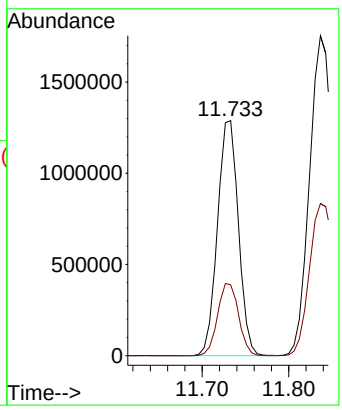





#67
Ethyl Benzene
Concen: 156.328 ug/l
RT: 11.733 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 91 Resp: 216298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.1 | 25.4 | 38.0 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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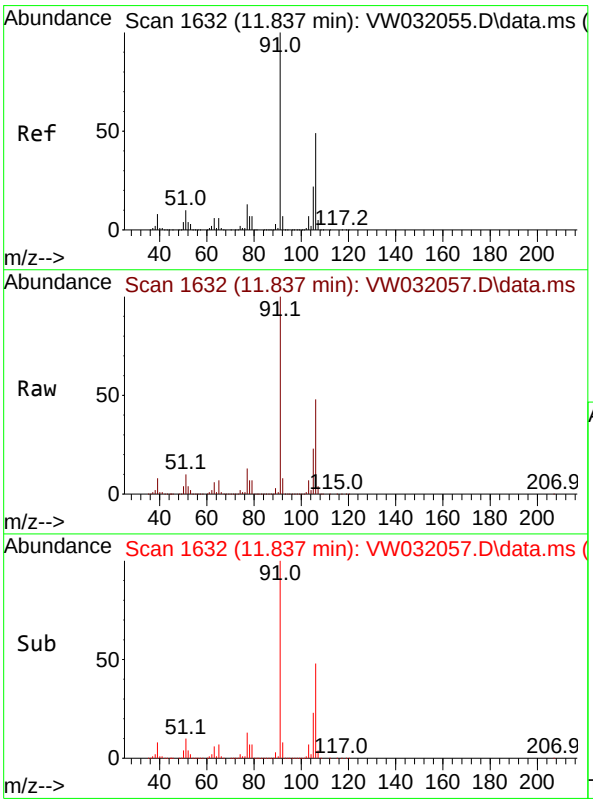
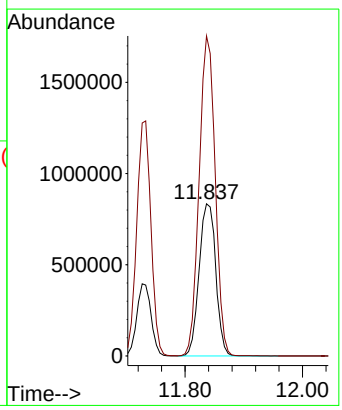
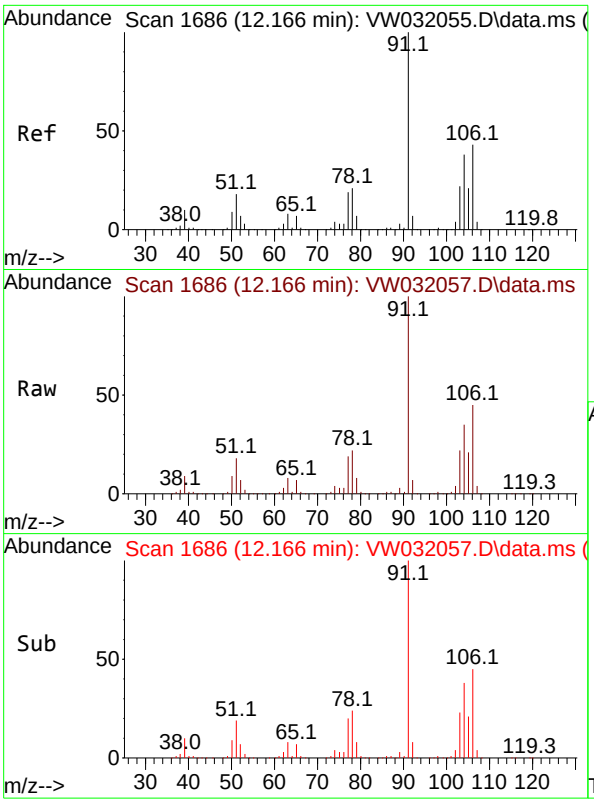



#68
m/p-Xylenes
Concen: 307.801 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:106 Resp: 1643338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 203.0 | 162.2 | 243.2 |






#69
o-Xylene
Concen: 159.450 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:106 Resp: 78683

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 220.1 | 110.8 | 332.3 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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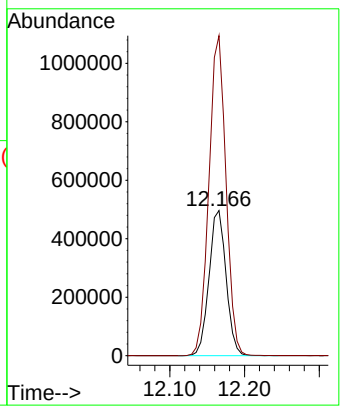
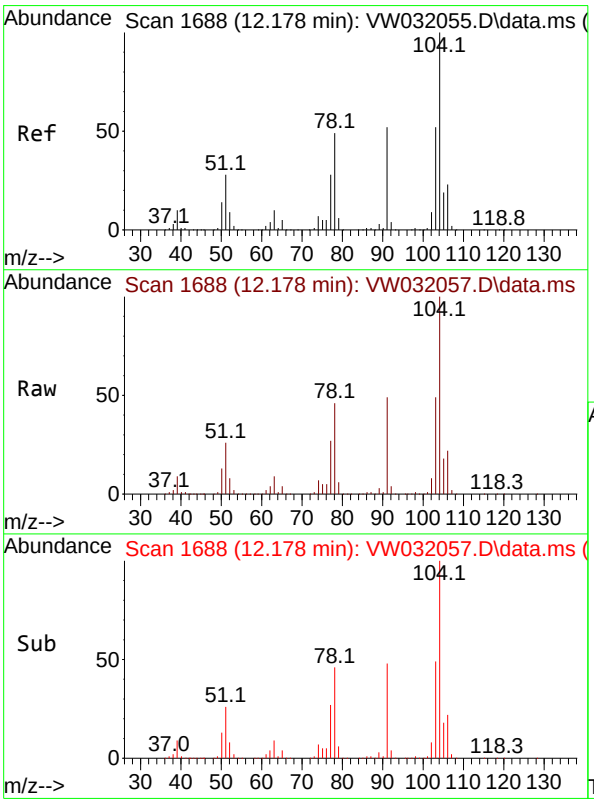
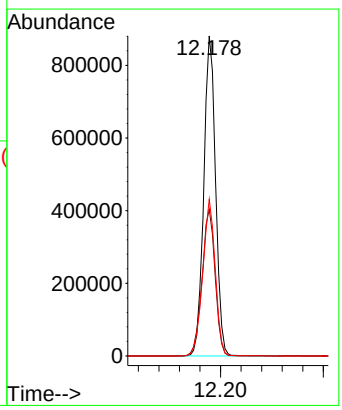


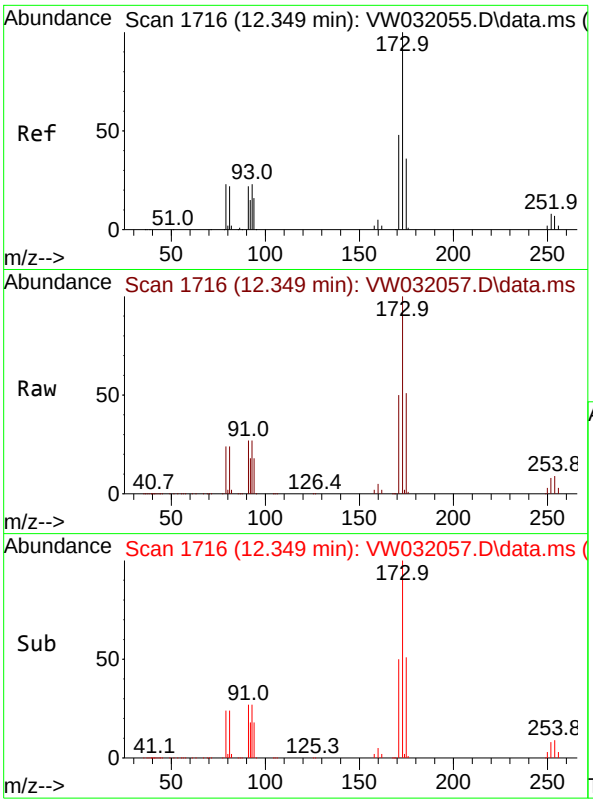




#70
Styrene
Concen: 160.482 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:104 Resp: 1406640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 50.4 | 41.2 | 61.8 |
| 103 | 51.7 | 43.8 | 65.8 |

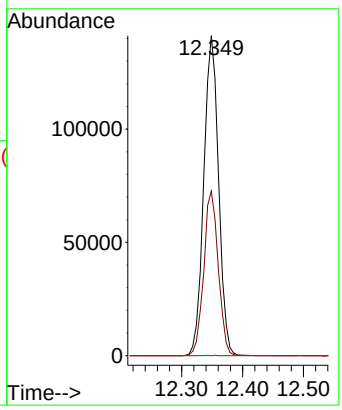





#71
Bromoform
Concen: 163.720 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:173 Resp: 23867

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 50.4 | 22.9 | 68.7 |
| 254 | 0.1 | 0.0 | 0.0 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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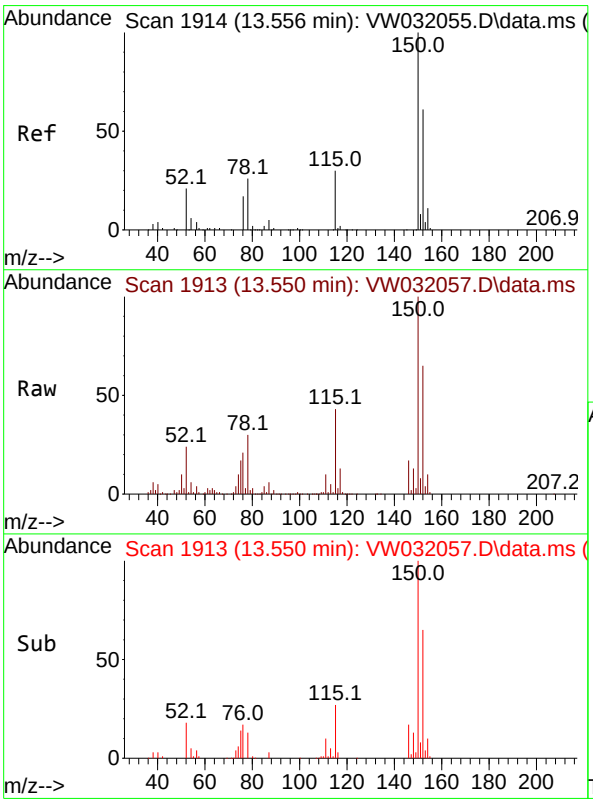
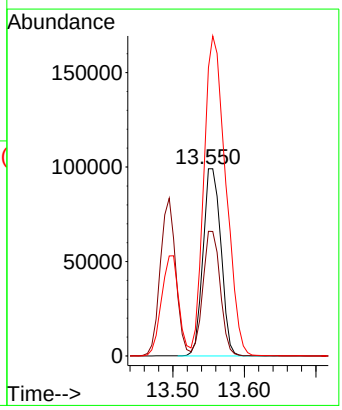
Supervised By :Semsettin Yesilyurt 08/12/2025

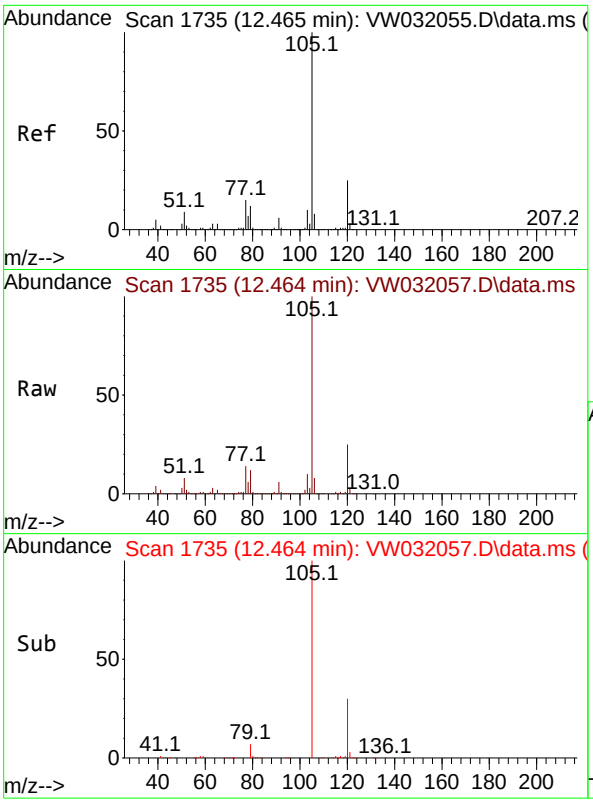



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.550 min Scan# 1913
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:152 Resp: 172321

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 64.2 | 32.6 | 97.8 |
| 150 | 208.3 | 0.0 | 359.4 |

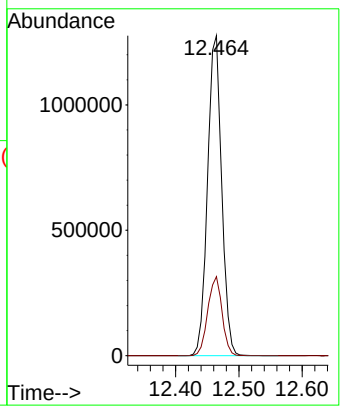





#73
Isopropylbenzene
Concen: 164.188 ug/l
RT: 12.464 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:105 Resp: 197728

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.0 | 12.8 | 38.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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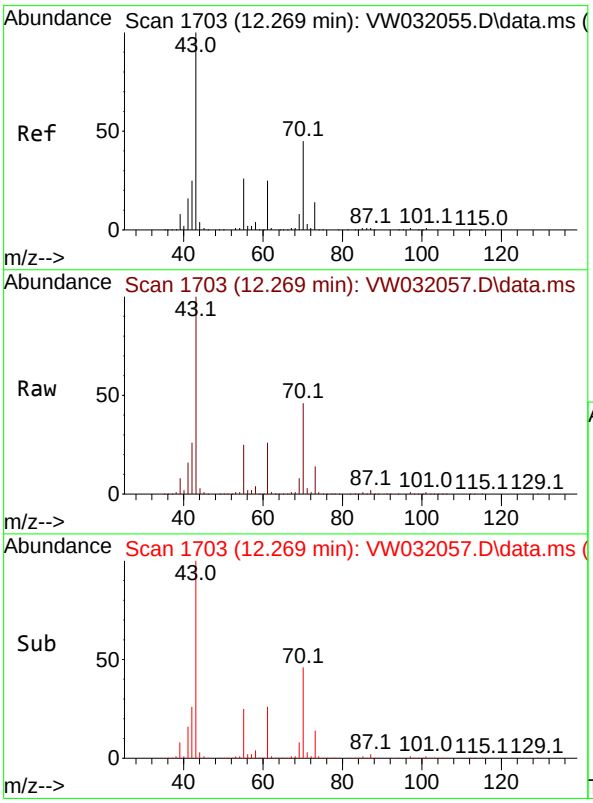
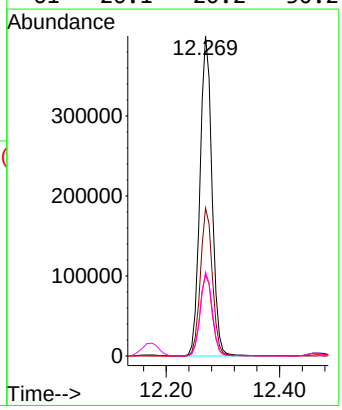
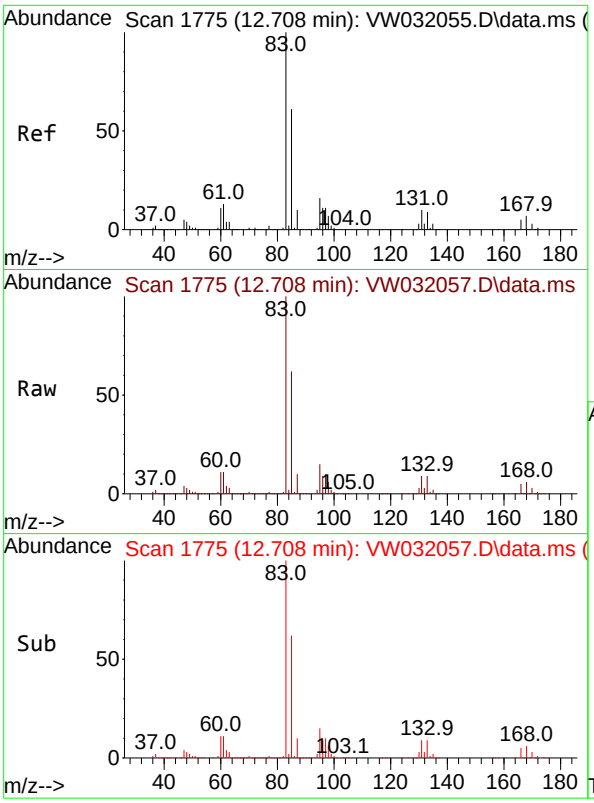



#74
N-amyl acetate
Concen: 170.556 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 43 Resp: 589285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 46.3 | 37.0 | 55.4 |
| 55 | 25.7 | 21.1 | 31.7 |
| 61 | 26.1 | 20.2 | 30.2 |






#75
1,1,2,2-Tetrachloroethane
Concen: 157.276 ug/l
RT: 12.708 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 83 Resp: 44970

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.9 | 5.1 | 15.4 |
| 85 | 64.1 | 32.2 | 96.6 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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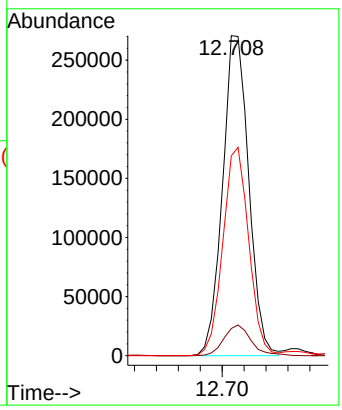
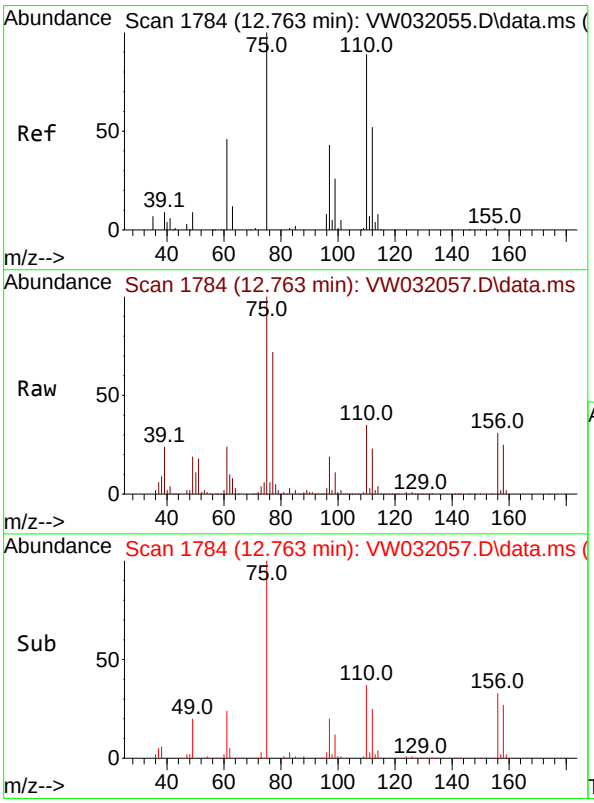
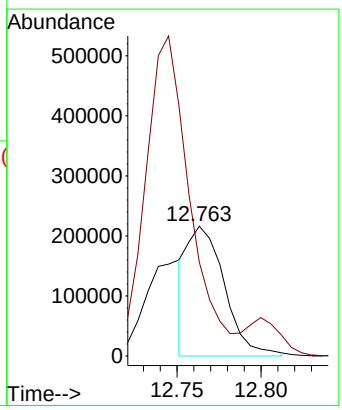


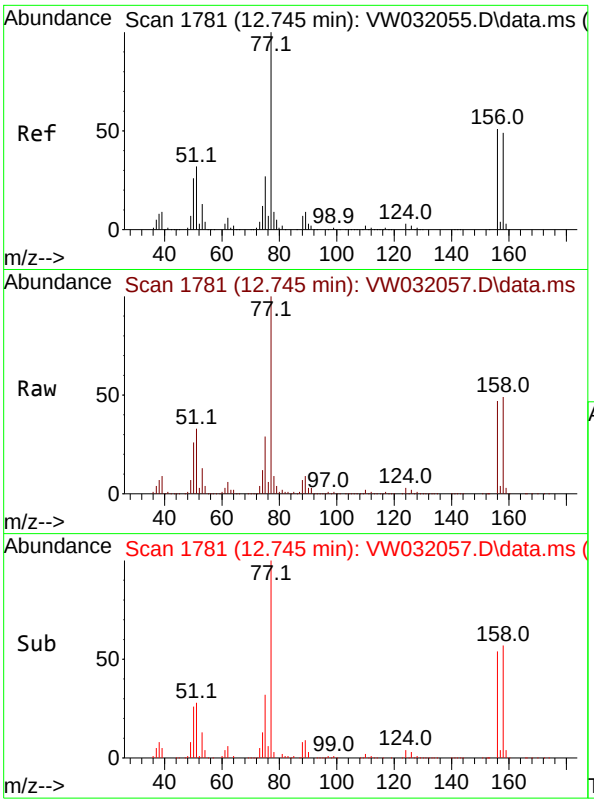




#76
1,2,3-Trichloropropane
Concen: 126.378 ug/l m
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 75 Resp: 334775

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 290.3 | 123.5 | 370.5 |

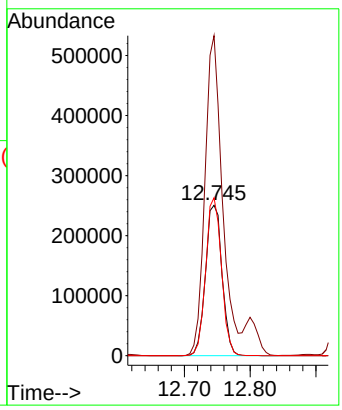





#77
Bromobenzene
Concen: 153.167 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:156 Resp: 44055

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 220.6 | 108.7 | 326.3 |
| 158 | 99.9 | 48.3 | 144.9 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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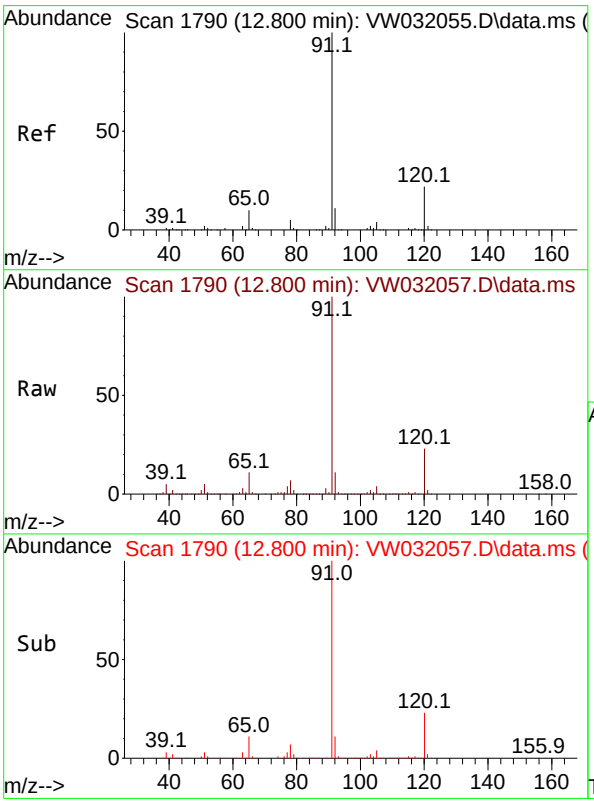
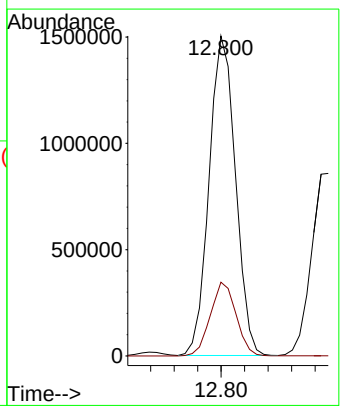
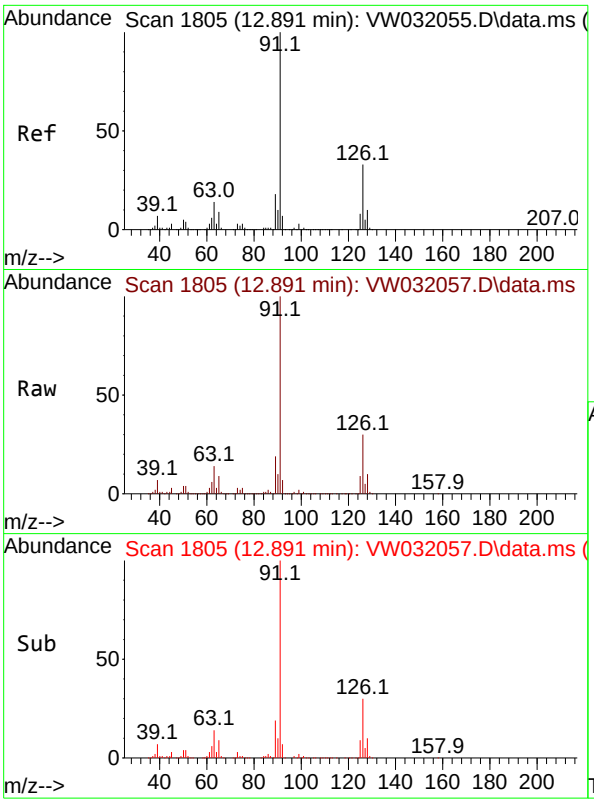



#78
n-propylbenzene
Concen: 158.253 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 91 Resp: 2346333

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.5 | 11.1 | 33.3 |

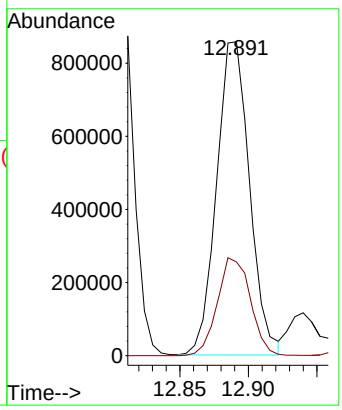





#79
2-Chlorotoluene
Concen: 156.820 ug/l
RT: 12.891 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 91 Resp: 143498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.4 | 15.9 | 47.7 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

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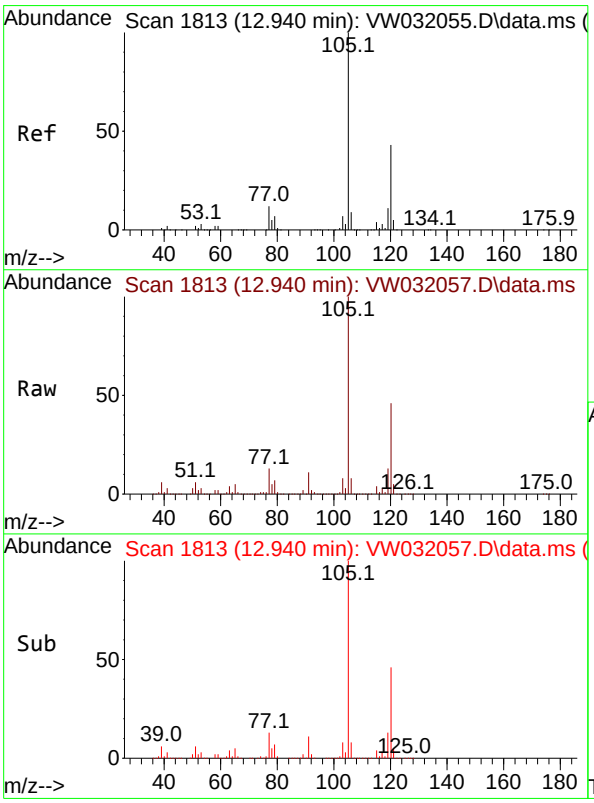
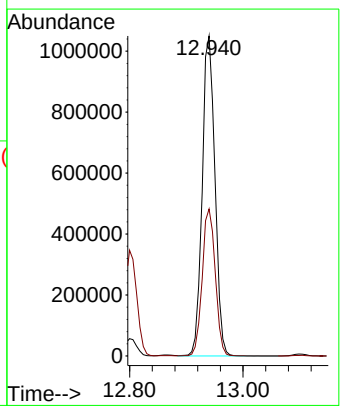
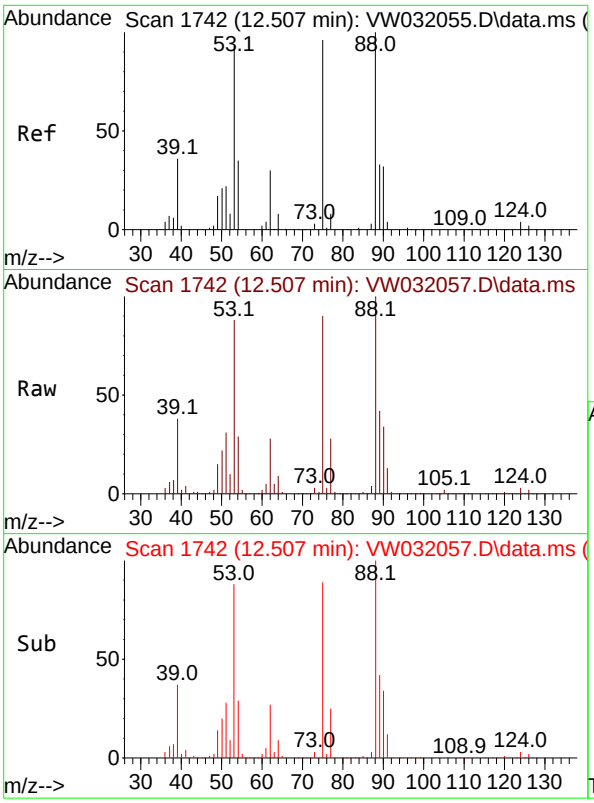



#80
1,3,5-Trimethylbenzene
Concen: 160.368 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:105 Resp: 1639597

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.1 | 23.4 | 70.0 |

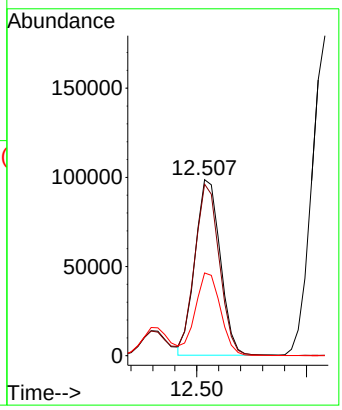





#81
trans-1,4-Dichloro-2-butene
Concen: 174.499 ug/l
RT: 12.507 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 75 Resp: 15764

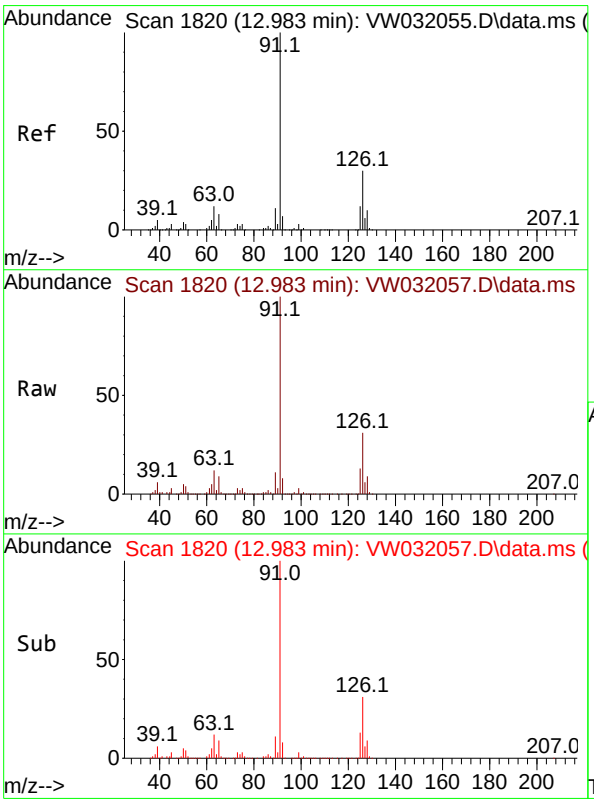
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 95.9 | 81.0 | 121.6 |
| 89 | 47.5 | 37.3 | 55.9 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

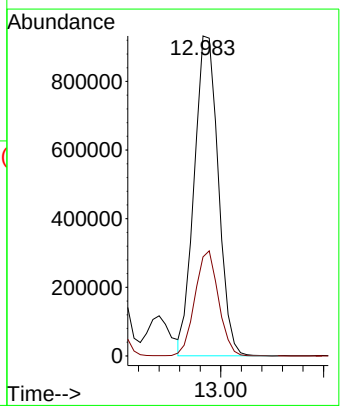
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

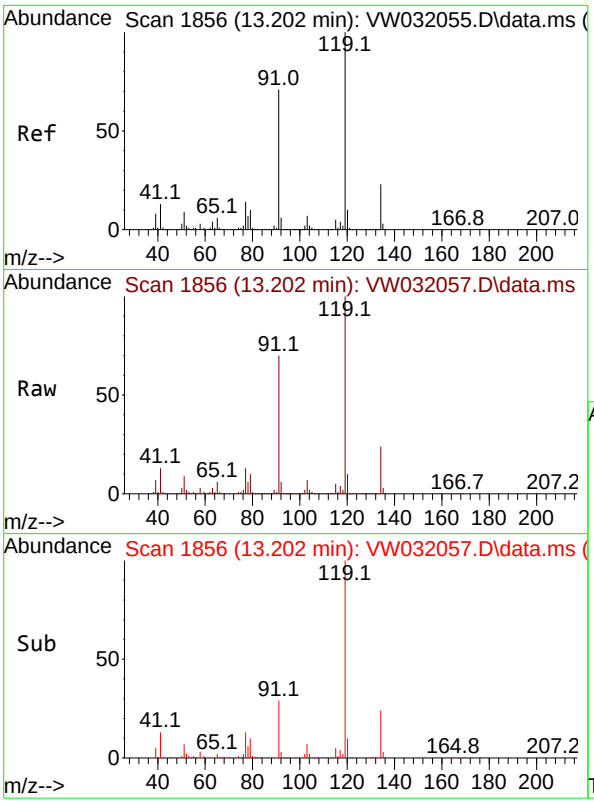



#82
4-Chlorotoluene
Concen: 155.863 ug/l
RT: 12.983 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 91 Resp: 1515300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.2 | 15.5 | 46.5 |

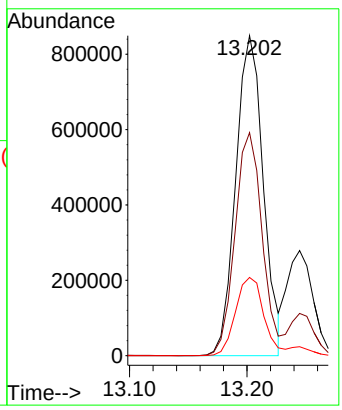





#83
tert-Butylbenzene
Concen: 163.006 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:119 Resp: 138312

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 68.5 | 35.3 | 105.9 |
| 134 | 25.2 | 12.1 | 36.3 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
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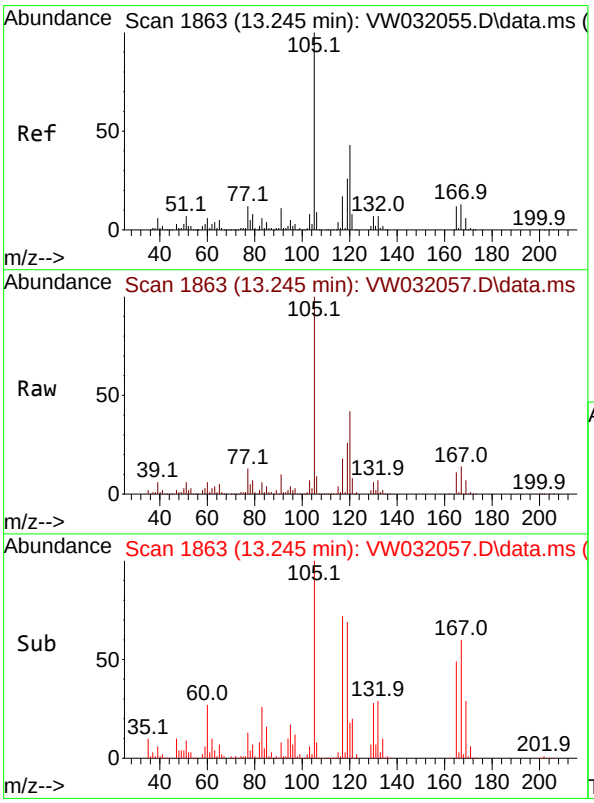
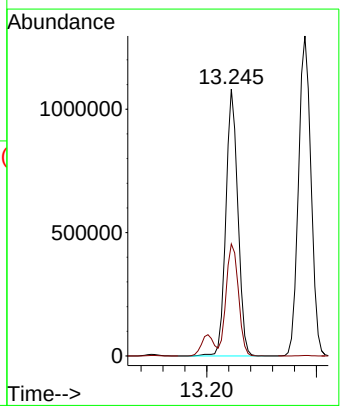
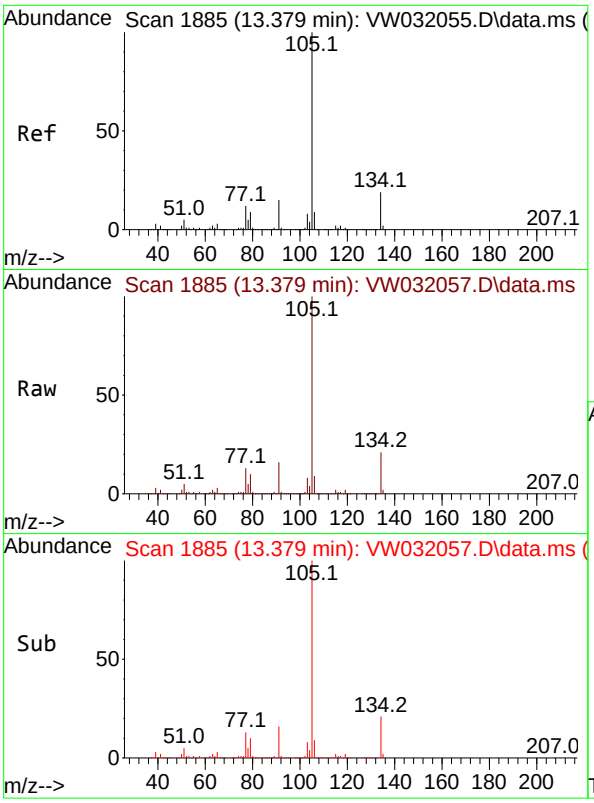



#84
1,2,4-Trimethylbenzene
Concen: 158.189 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:105 Resp: 1646381

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.2 | 21.6 | 64.8 |

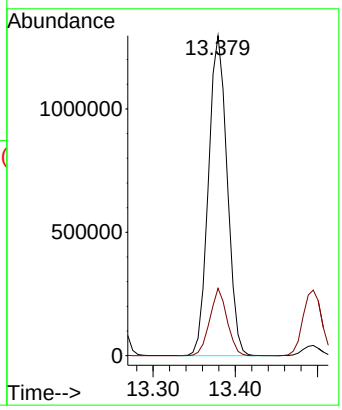





#85
sec-Butylbenzene
Concen: 159.625 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:105 Resp: 204776

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.5 | 9.9 | 29.7 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
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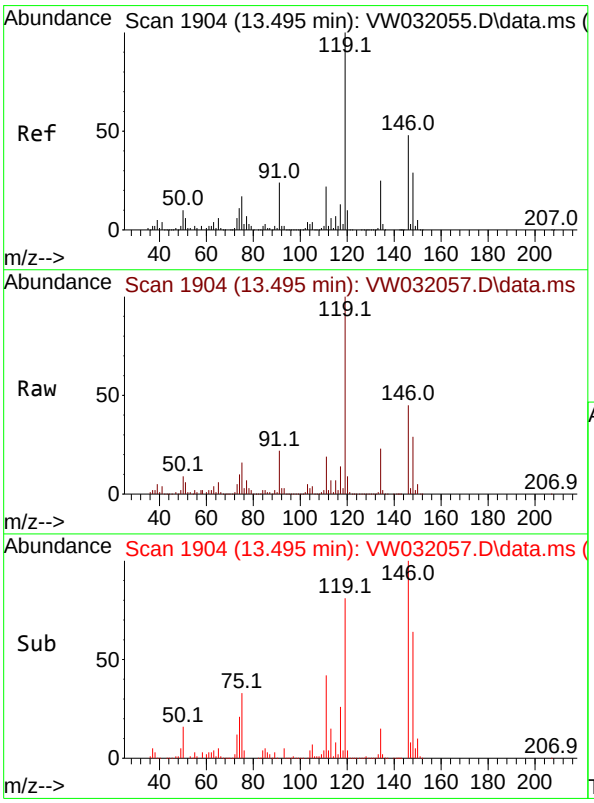
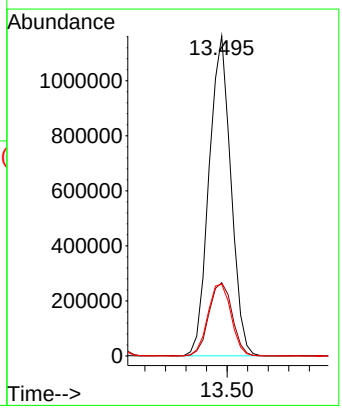
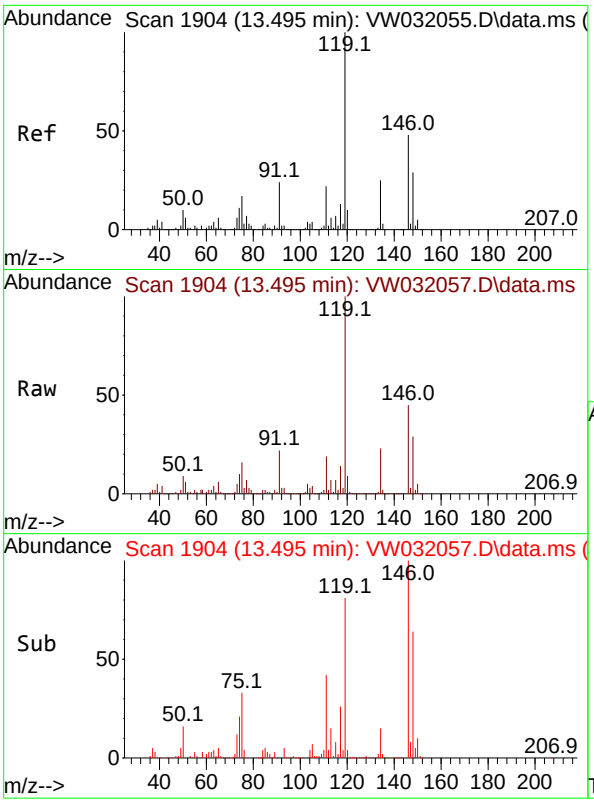



#86
p-Isopropyltoluene
Concen: 160.127 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:119 Resp: 1712519

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 24.5 | 12.4 | 37.0 |
| 91 | 24.0 | 12.1 | 36.3 |

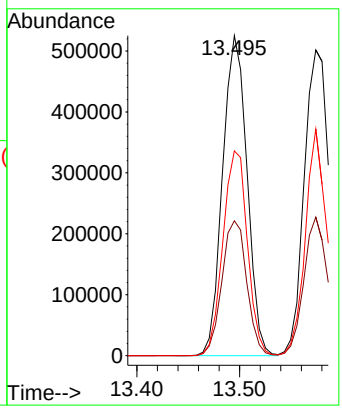





#87
1,3-Dichlorobenzene
Concen: 151.629 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:146 Resp: 86782

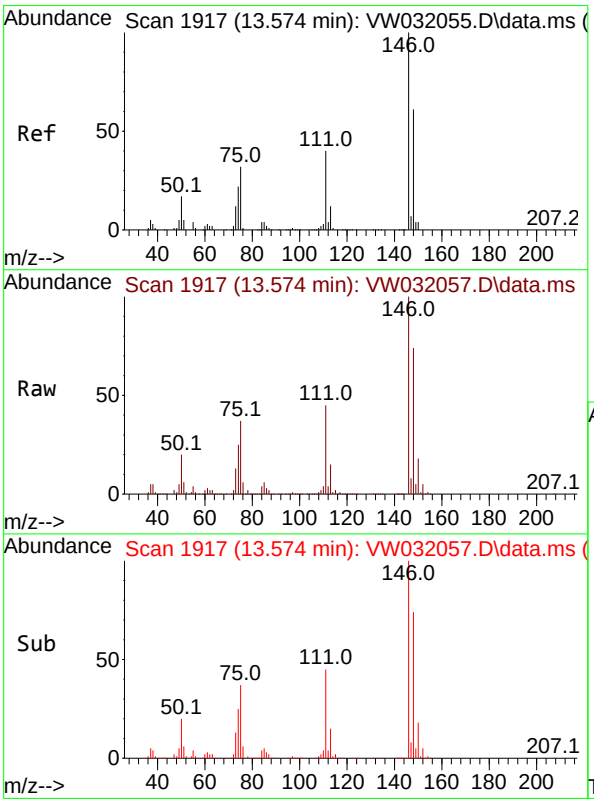
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.9 | 21.2 | 63.6 |
| 148 | 64.1 | 30.3 | 90.8 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

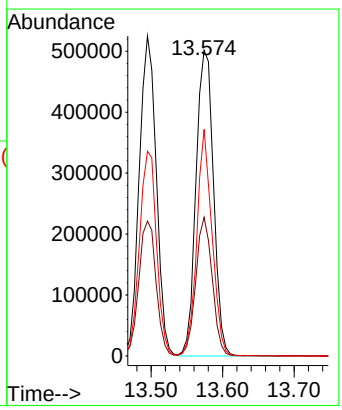
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

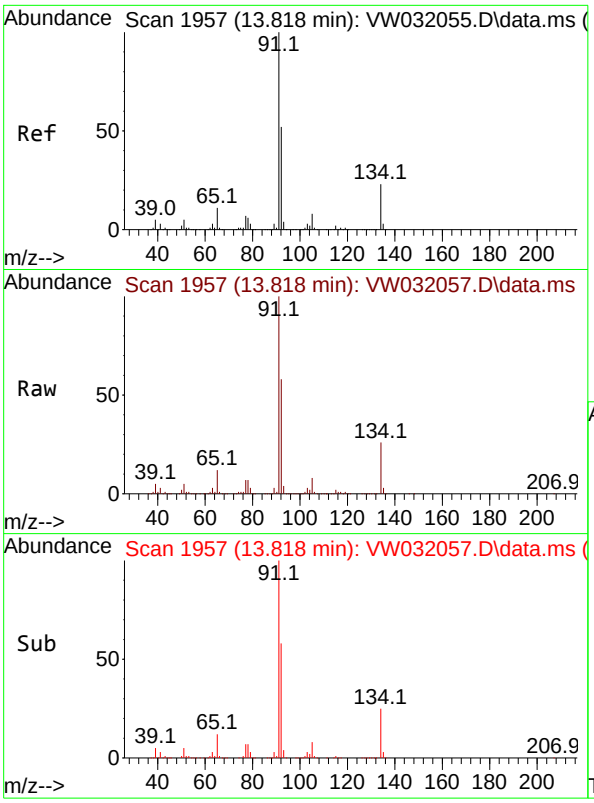



#88
1,4-Dichlorobenzene
Concen: 147.144 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:146 Resp: 851057

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.5 | 21.6 | 64.6 |
| 148 | 64.4 | 32.0 | 96.2 |

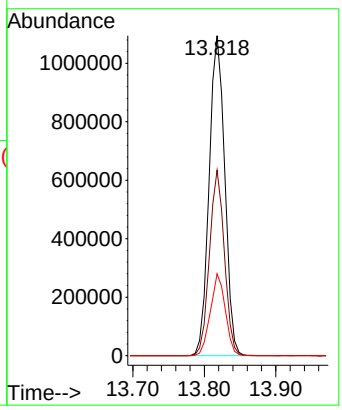





#89
n-Butylbenzene
Concen: 159.527 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 91 Resp: 165749

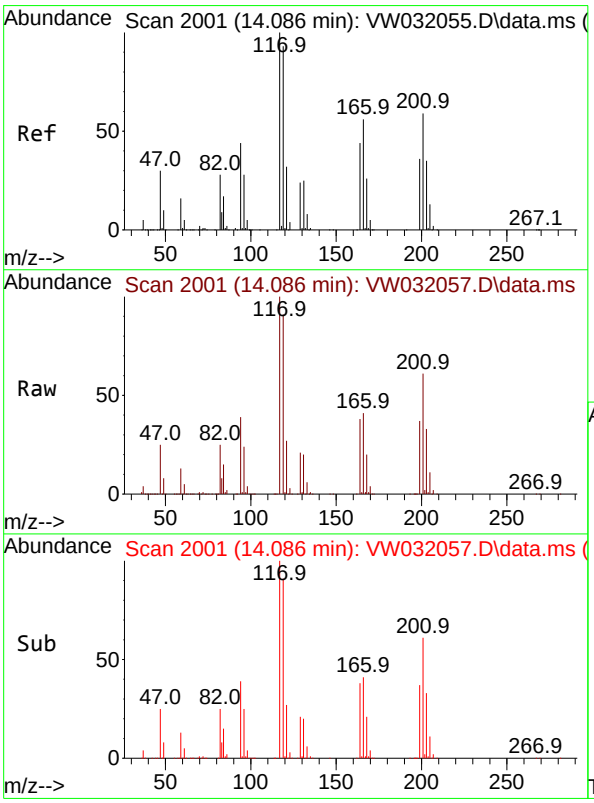
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 55.4 | 26.7 | 80.1 |
| 134 | 24.5 | 12.0 | 36.1 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

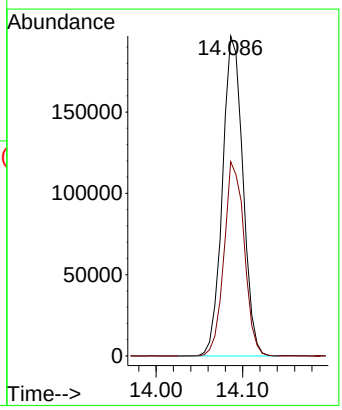
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

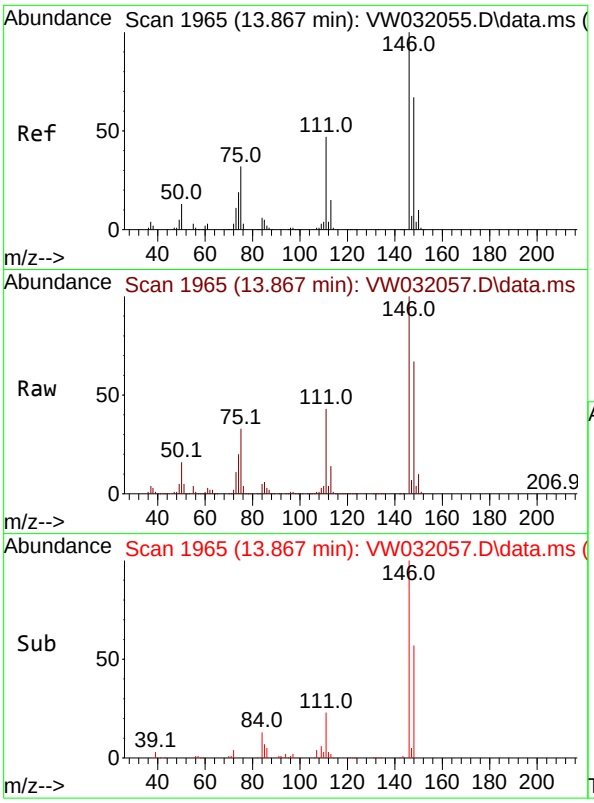



#90
Hexachloroethane
Concen: 164.868 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:117 Resp: 322461

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 60.0 | 30.9 | 92.5 |

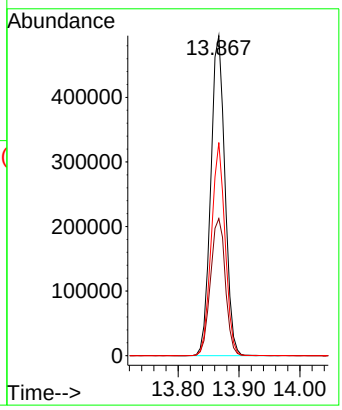





#91
1,2-Dichlorobenzene
Concen: 153.968 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:146 Resp: 79825

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.9 | 23.1 | 69.3 |
| 148 | 64.7 | 32.9 | 98.6 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
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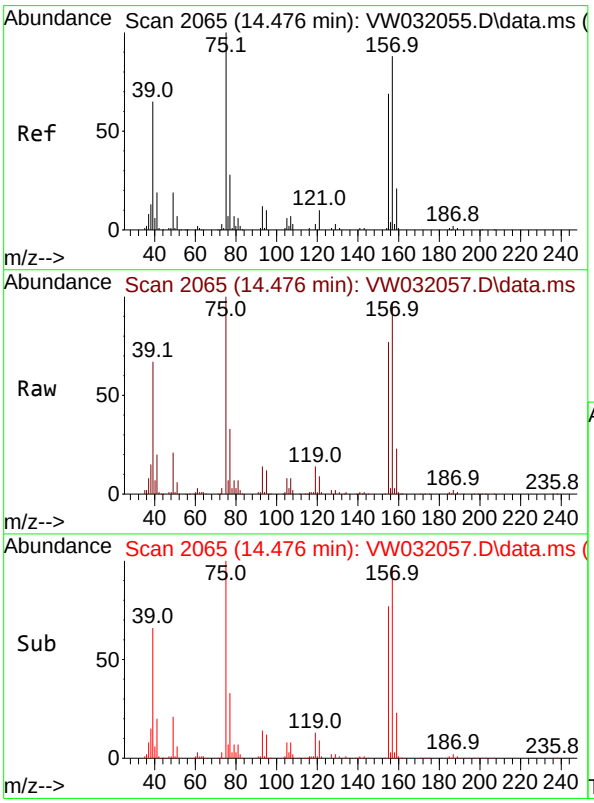
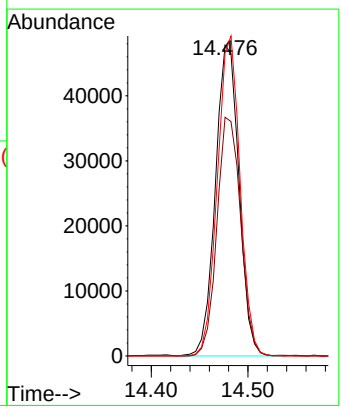
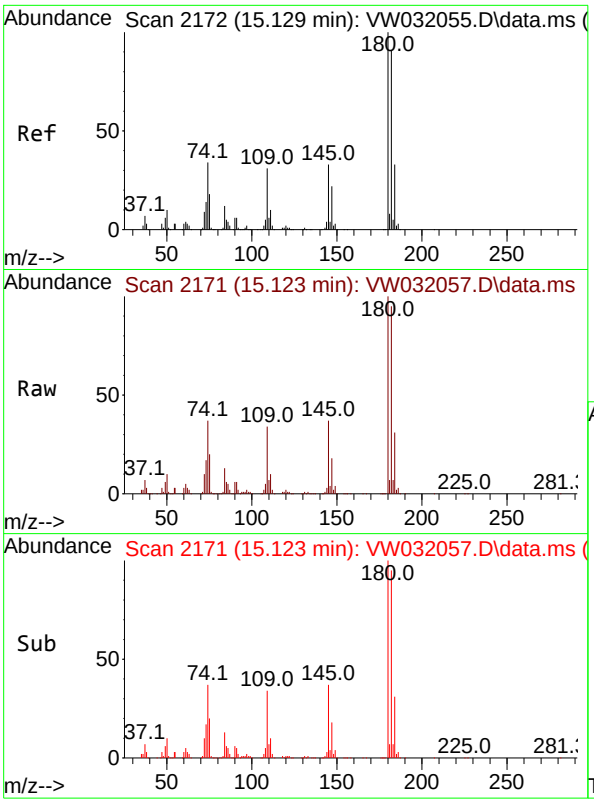



#92
1,2-Dibromo-3-Chloropropane
Concen: 159.472 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 75 Resp: 81063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 77.0 | 35.2 | 105.6 |
| 157 | 98.7 | 47.5 | 142.6 |

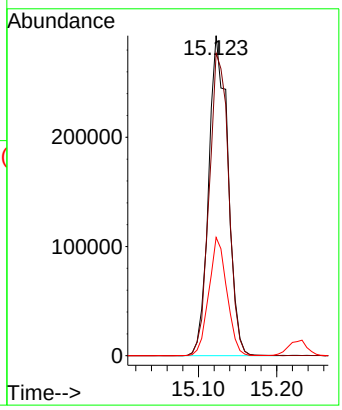





#93
1,2,4-Trichlorobenzene
Concen: 161.006 ug/l
RT: 15.123 min Scan# 2
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:180 Resp: 49935

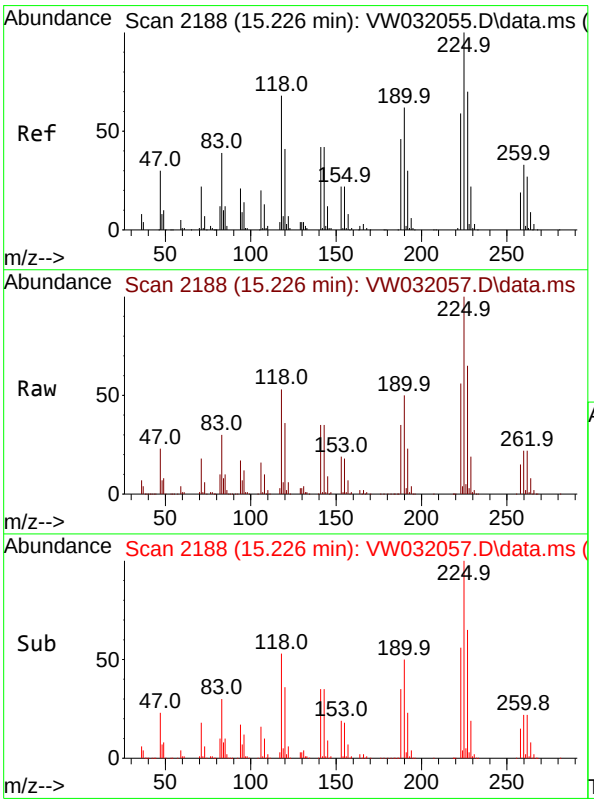
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.3 | 49.0 | 147.0 |
| 145 | 34.7 | 17.3 | 51.9 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

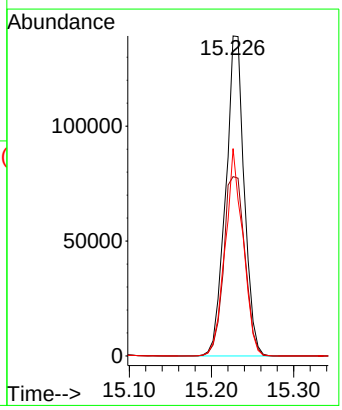
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

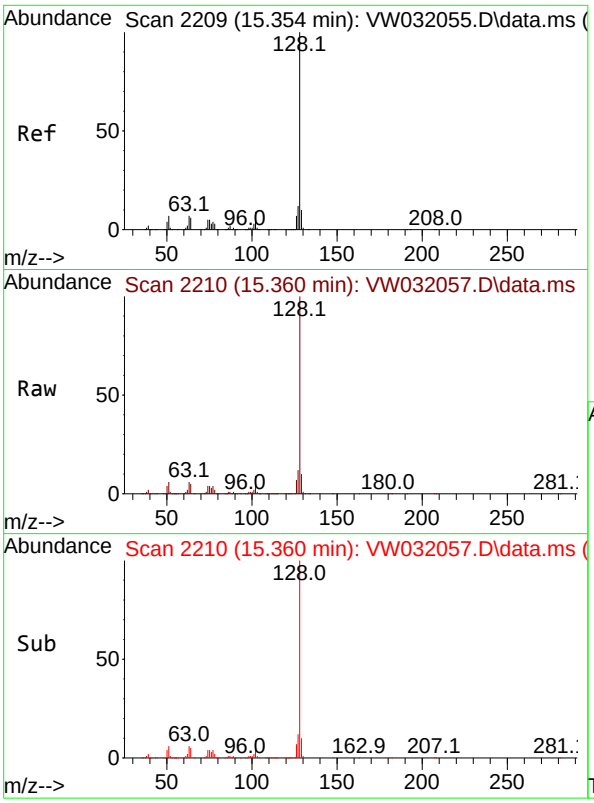



#94
Hexachlorobutadiene
Concen: 157.938 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:225 Resp: 218963

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 64.2 | 31.8 | 95.3 |
| 227 | 62.4 | 33.5 | 100.5 |

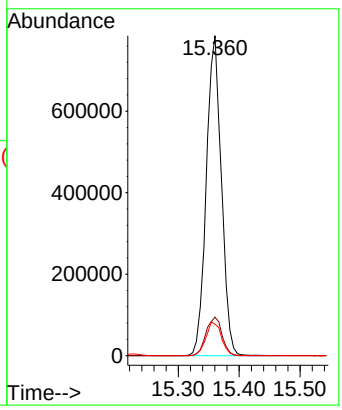





#95
Naphthalene
Concen: 177.424 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:128 Resp: 134834

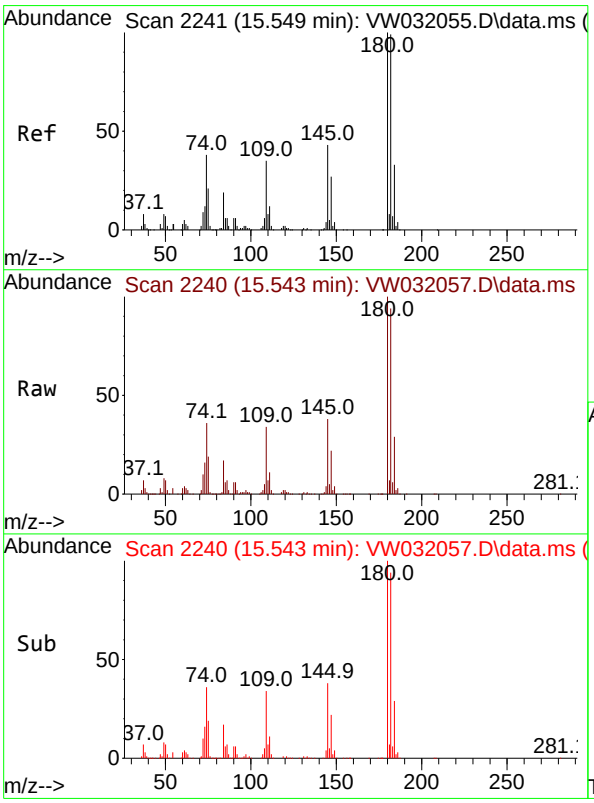
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.8 | 10.5 | 15.7 |
| 129 | 10.8 | 8.2 | 12.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

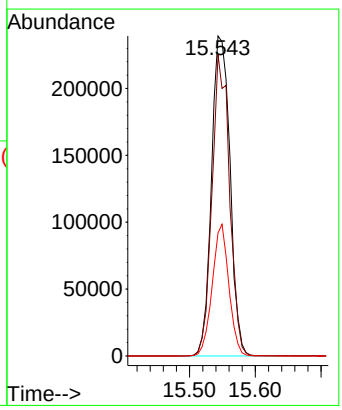
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025




#96
1,2,3-Trichlorobenzene
Concen: 165.423 ug/l
RT: 15.543 min Scan# 2240
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:180 Resp: 466811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 89.3 | 46.0 | 138.0 |
| 145 | 37.2 | 19.2 | 57.6 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032059.D
Acq On : 11 Aug 2025 11:51
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Quant Time: Aug 12 04:12:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.959 | 168 | 226453 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.849 | 114 | 420434 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.629 | 117 | 386856 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.556 | 152 | 182577 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.319 | 65 | 161155 | 49.205 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 63 - 155 | | Recovery = 98.420% | | | |
| 35) Dibromofluoromethane | 7.898 | 113 | 135642 | 49.939 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 70 - 134 | | Recovery = 99.880% | | | |
| 50) Toluene-d8 | 10.325 | 98 | 499377 | 49.708 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 123 | | Recovery = 99.420% | | | |
| 62) 4-Bromofluorobenzene | 12.617 | 95 | 190514 | 51.460 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 17 - 146 | | Recovery = 102.920% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.040 | 85 | 69757 | 43.069 | ug/l | 98 |
| 3) Chloromethane | 2.253 | 50 | 103574 | 47.474 | ug/l | 100 |
| 4) Vinyl Chloride | 2.405 | 62 | 124287 | 47.096 | ug/l | 95 |
| 5) Bromomethane | 2.820 | 94 | 93451 | 47.201 | ug/l | 100 |
| 6) Chloroethane | 2.966 | 64 | 83573 | 47.858 | ug/l | 97 |
| 7) Trichlorofluoromethane | 3.308 | 101 | 108634 | 51.386 | ug/l | 91 |
| 8) Diethyl Ether | 3.722 | 74 | 87261 | 50.380 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 4.100 | 101 | 118012 | 47.316 | ug/l | 99 |
| 10) Methyl Iodide | 4.307 | 142 | 175903 | 49.742 | ug/l | 97 |
| 11) Tert butyl alcohol | 5.210 | 59 | 57666 | 271.910 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 4.076 | 96 | 131802 | 47.992 | ug/l | 97 |
| 13) Acrolein | 3.929 | 56 | 80072 | 236.960 | ug/l | 98 |
| 14) Allyl chloride | 4.710 | 41 | 204222 | 51.094 | ug/l | 99 |
| 15) Acrylonitrile | 5.405 | 53 | 219409 | 265.958 | ug/l | 99 |
| 16) Acetone | 4.161 | 43 | 192802 | 254.262 | ug/l | 97 |
| 17) Carbon Disulfide | 4.423 | 76 | 360982 | 48.970 | ug/l | 96 |
| 18) Methyl Acetate | 4.716 | 43 | 126246 | 52.614 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.466 | 73 | 263546 | 54.465 | ug/l | 100 |
| 20) Methylene Chloride | 4.954 | 84 | 162865 | 46.453 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 5.466 | 96 | 145825 | 50.035 | ug/l | 98 |
| 22) Diisopropyl ether | 6.338 | 45 | 438483 | 52.038 | ug/l | 97 |
| 23) Vinyl Acetate | 6.283 | 43 | 1494873 | 270.210 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 6.246 | 63 | 265060 | 49.234 | ug/l | 98 |
| 25) 2-Butanone | 7.191 | 43 | 293227 | 272.083 | ug/l | 96 |
| 26) 2,2-Dichloropropane | 7.185 | 77 | 134123 | 49.659 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 7.185 | 96 | 175120 | 51.404 | ug/l | 98 |
| 28) Bromochloromethane | 7.532 | 49 | 123268 | 50.315 | ug/l | 98 |
| 29) Tetrahydrofuran | 7.551 | 42 | 194909 | 274.235 | ug/l | 100 |
| 30) Chloroform | 7.691 | 83 | 284250 | 49.803 | ug/l | 98 |
| 31) Cyclohexane | 7.971 | 56 | 217714 | 46.646 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.886 | 97 | 207733 | 50.108 | ug/l | 97 |
| 36) 1,1-Dichloropropene | 8.093 | 75 | 189820 | 49.574 | ug/l | 100 |
| 37) Ethyl Acetate | 7.270 | 43 | 124516 | 55.214 | ug/l | 99 |
| 38) Carbon Tetrachloride | 8.081 | 117 | 184816 | 50.015 | ug/l | 98 |
| 39) Methylcyclohexane | 9.343 | 83 | 243533 | 52.181 | ug/l | 98 |
| 40) Benzene | 8.337 | 78 | 598350 | 50.272 | ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032059.D
Acq On : 11 Aug 2025 11:51
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Quant Time: Aug 12 04:12:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.502 | 41 | 70600 | 55.204 | ug/l | | 97 |
| 42) 1,2-Dichloroethane | 8.410 | 62 | 194825 | 51.154 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.435 | 43 | 227561 | 54.846 | ug/l | | 99 |
| 44) Trichloroethene | 9.099 | 130 | 139383 | 49.175 | ug/l | | 99 |
| 45) 1,2-Dichloropropane | 9.374 | 63 | 147807 | 51.403 | ug/l | | 99 |
| 46) Dibromomethane | 9.465 | 93 | 93713 | 50.497 | ug/l | | 98 |
| 47) Bromodichloromethane | 9.648 | 83 | 221409 | 51.775 | ug/l | | 100 |
| 48) Methyl methacrylate | 9.441 | 41 | 110265 | 55.048 | ug/l | | 98 |
| 49) 1,4-Dioxane | 9.459 | 88 | 27718 | 1155.151 | ug/l | # | 83 |
| 51) 4-Methyl-2-Pentanone | 10.215 | 43 | 645391 | 275.585 | ug/l | | 100 |
| 52) Toluene | 10.392 | 92 | 377919 | 50.410 | ug/l | | 96 |
| 53) t-1,3-Dichloropropene | 10.611 | 75 | 212772 | 53.108 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 10.075 | 75 | 238970 | 52.577 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 10.788 | 97 | 127536 | 51.716 | ug/l | | 97 |
| 56) Ethyl methacrylate | 10.648 | 69 | 186039 | 56.374 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.934 | 76 | 220027 | 51.186 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.928 | 63 | 498131 | 272.893 | ug/l | | 99 |
| 59) 2-Hexanone | 10.971 | 43 | 457083 | 281.817 | ug/l | | 100 |
| 60) Dibromochloromethane | 11.129 | 129 | 147264 | 52.276 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 11.239 | 107 | 126064 | 52.603 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.861 | 164 | 114507 | 51.245 | ug/l | | 95 |
| 65) Chlorobenzene | 11.660 | 112 | 416485 | 49.461 | ug/l | | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 11.733 | 131 | 132212 | 50.324 | ug/l | | 98 |
| 67) Ethyl Benzene | 11.727 | 91 | 716757 | 50.253 | ug/l | | 100 |
| 68) m/p-Xylenes | 11.837 | 106 | 559216 | 101.607 | ug/l | | 99 |
| 69) o-Xylene | 12.160 | 106 | 261548 | 51.416 | ug/l | | 98 |
| 70) Styrene | 12.178 | 104 | 468335 | 51.833 | ug/l | | 99 |
| 71) Bromoform | 12.349 | 173 | 82571 | 54.945 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.458 | 105 | 670779 | 52.571 | ug/l | | 99 |
| 74) N-amyl acetate | 12.269 | 43 | 203837 | 55.682 | ug/l | | 100 |
| 75) 1,1,2,2-Tetrachloroethane | 12.714 | 83 | 159092 | 52.514 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.763 | 75 | 119168m | 48.091 | ug/l | | |
| 77) Bromobenzene | 12.745 | 156 | 152028 | 49.886 | ug/l | | 94 |
| 78) n-propylbenzene | 12.800 | 91 | 803474 | 51.148 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.885 | 91 | 495562 | 51.114 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.940 | 105 | 566437 | 52.291 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.507 | 75 | 51275 | 53.570 | ug/l | | 97 |
| 82) 4-Chlorotoluene | 12.989 | 91 | 518248 | 50.312 | ug/l | | 99 |
| 83) tert-Butylbenzene | 13.202 | 119 | 483459 | 53.777 | ug/l | | 97 |
| 84) 1,2,4-Trimethylbenzene | 13.245 | 105 | 587831 | 53.308 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.379 | 105 | 687367 | 50.571 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.495 | 119 | 584473 | 51.580 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.495 | 146 | 305044 | 50.304 | ug/l | | 95 |
| 88) 1,4-Dichlorobenzene | 13.574 | 146 | 306047 | 49.942 | ug/l | | 97 |
| 89) n-Butylbenzene | 13.818 | 91 | 571978 | 51.958 | ug/l | | 98 |
| 90) Hexachloroethane | 14.092 | 117 | 104295 | 50.329 | ug/l | | 95 |
| 91) 1,2-Dichlorobenzene | 13.867 | 146 | 279745 | 50.926 | ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.482 | 75 | 29014 | 53.872 | ug/l | | 98 |
| 93) 1,2,4-Trichlorobenzene | 15.123 | 180 | 173386 | 52.764 | ug/l | | 90 |
| 94) Hexachlorobutadiene | 15.226 | 225 | 75299 | 51.262 | ug/l | | 92 |
| 95) Naphthalene | 15.360 | 128 | 438139 | 54.415 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.549 | 180 | 162431 | 54.327 | ug/l | | 98 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032059.D
Acq On : 11 Aug 2025 11:51
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Quant Time: Aug 12 04:12:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

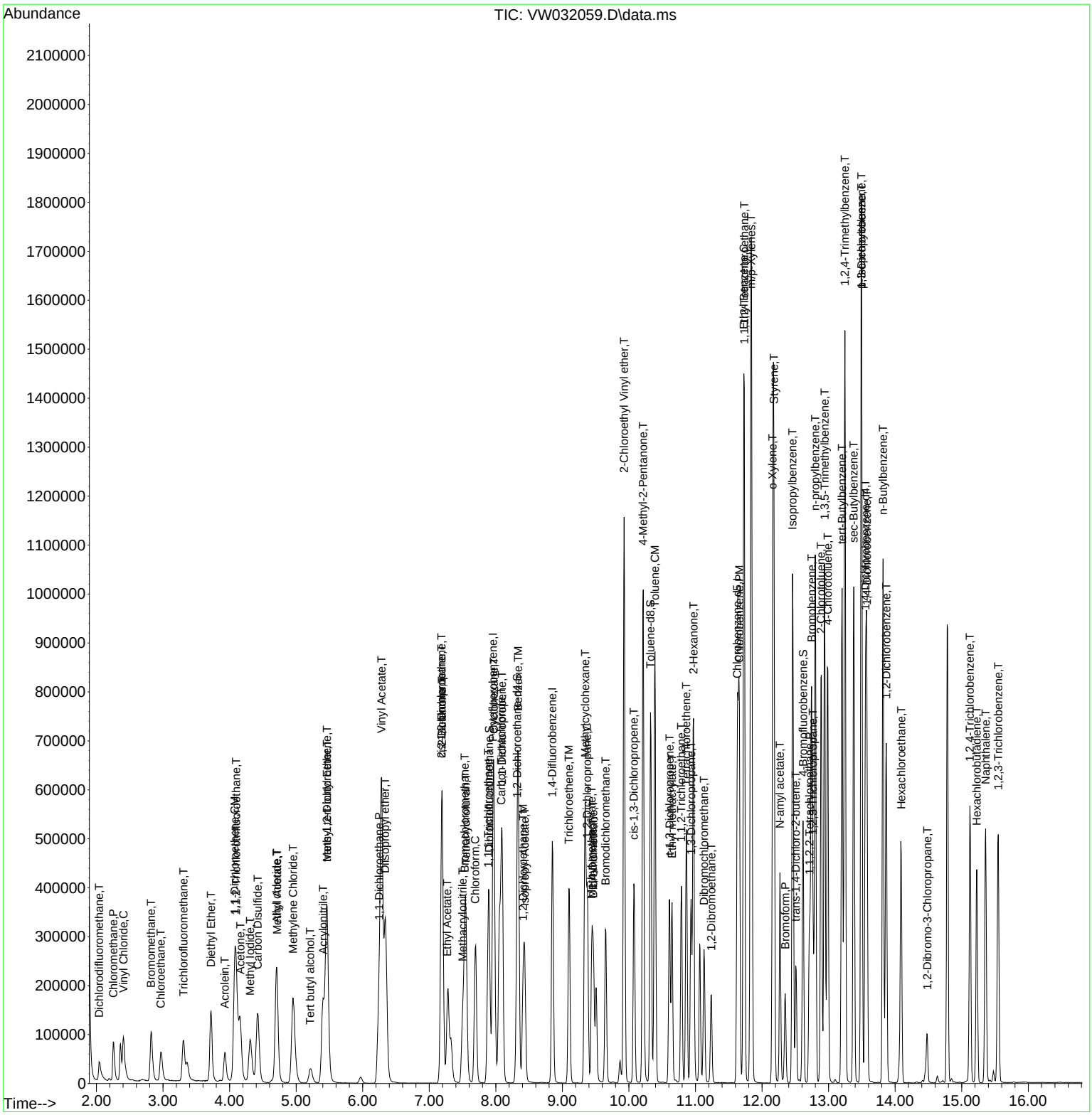
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032059.D
Acq On : 11 Aug 2025 11:51
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

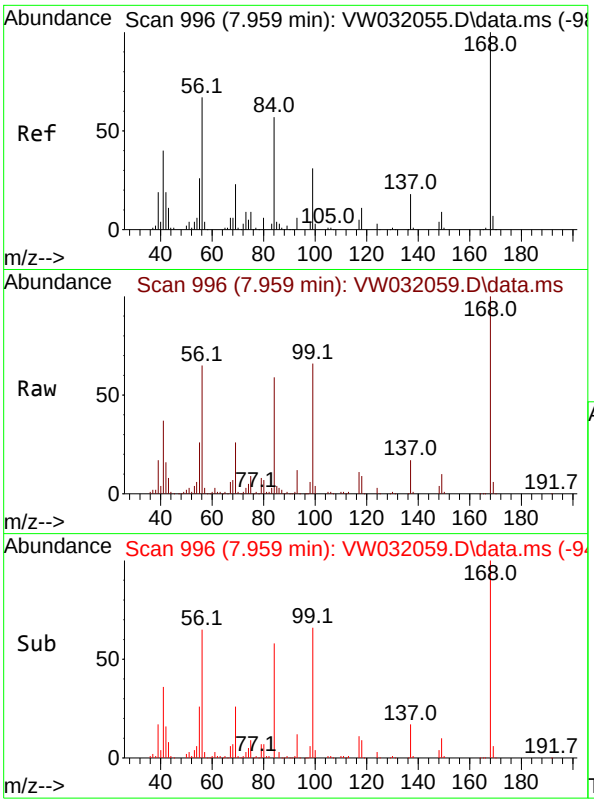
Quant Time: Aug 12 04:12:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

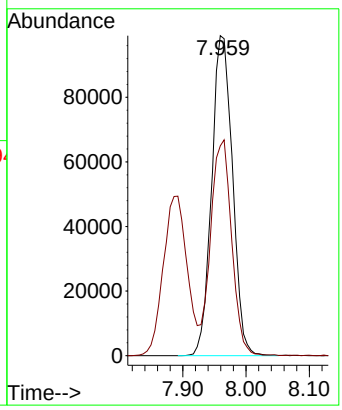





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:168 Resp: 22645

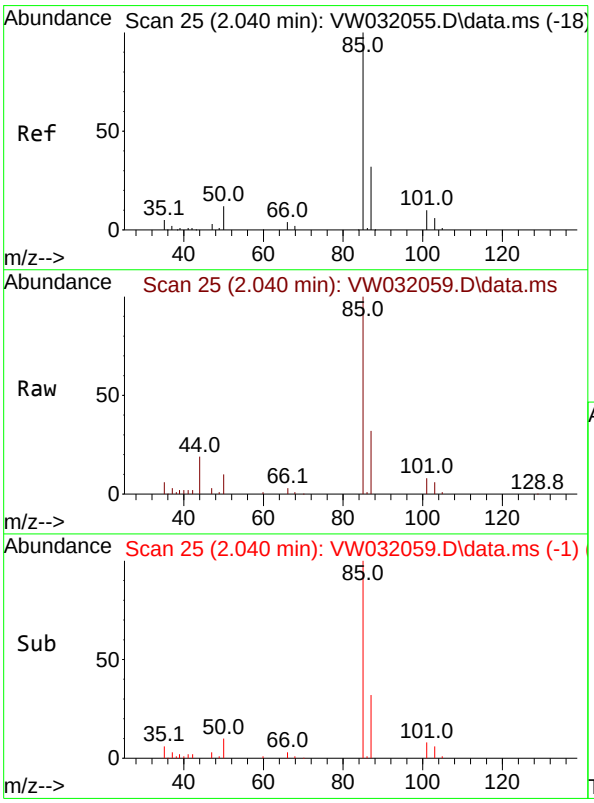
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 65.5 | 56.0 | 84.0 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

**Manual Integrations**
**APPROVED**

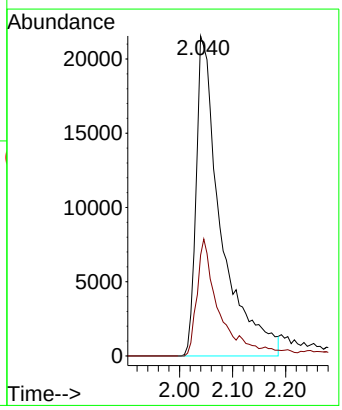
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

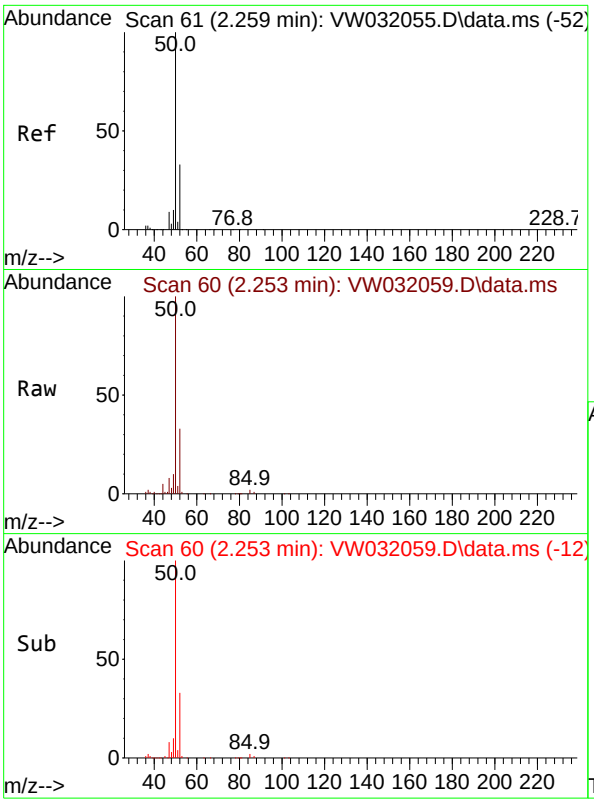



#2
Dichlorodifluoromethane
Concen: 43.069 ug/l
RT: 2.040 min Scan# 25
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 85 Resp: 69757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.5 | 16.2 | 48.6 |

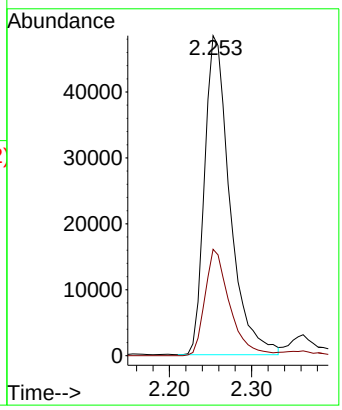





#3
Chloromethane
Concen: 47.474 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 50 Resp: 10357

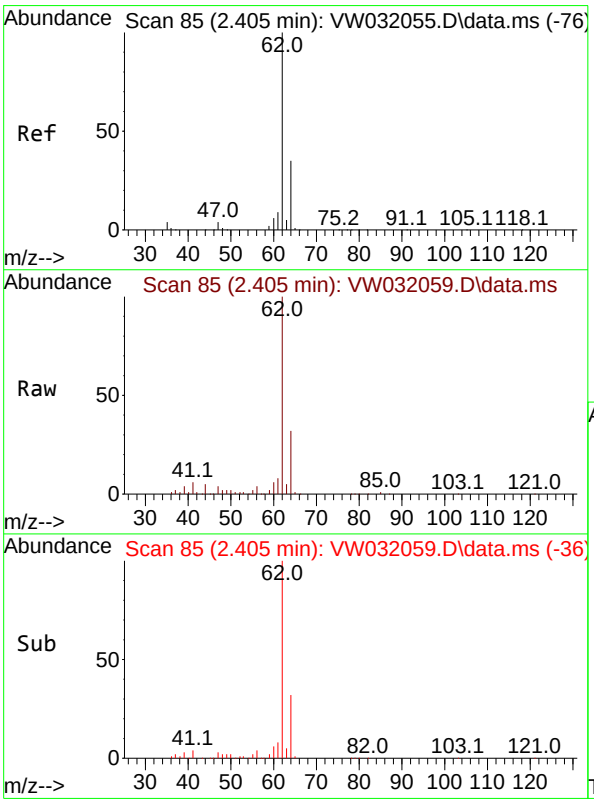
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.3 | 26.6 | 39.8 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

**Manual Integrations APPROVED**

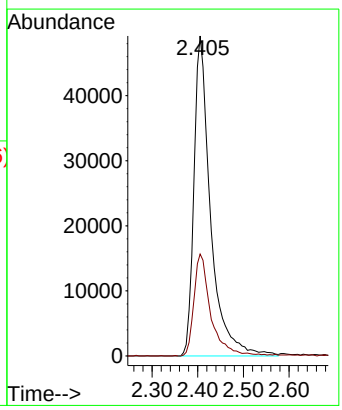
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

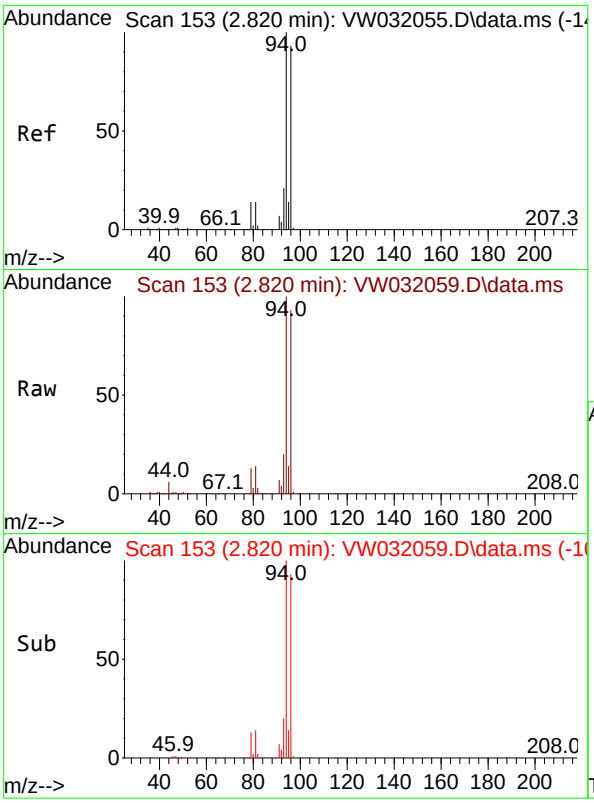



#4
Vinyl Chloride
Concen: 47.096 ug/l
RT: 2.405 min Scan# 85
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 62 Resp: 124287

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.9 | 27.8 | 41.6 |

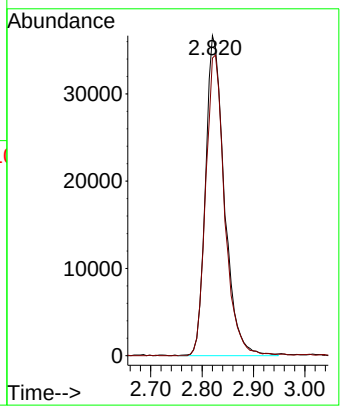





#5
Bromomethane
Concen: 47.201 ug/l
RT: 2.820 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 94 Resp: 9345

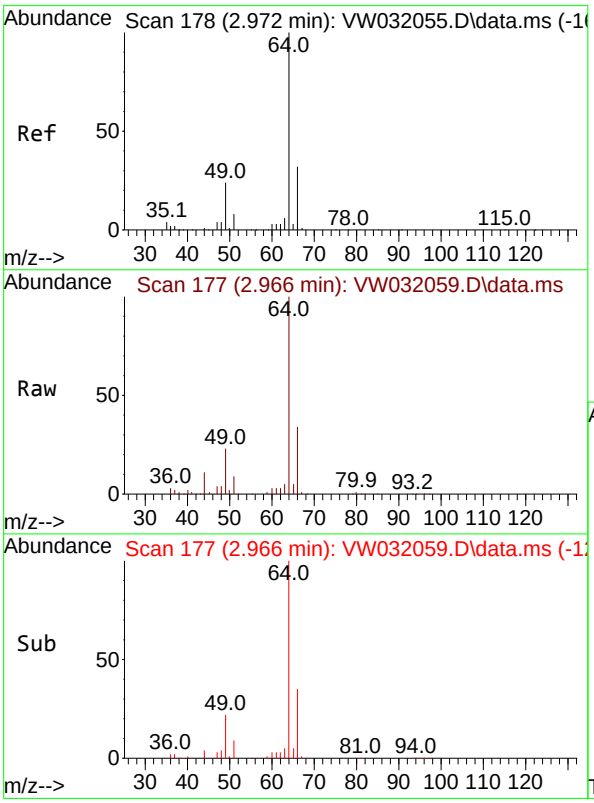
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 93.0 | 74.7 | 112.1 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

**Manual Integrations APPROVED**

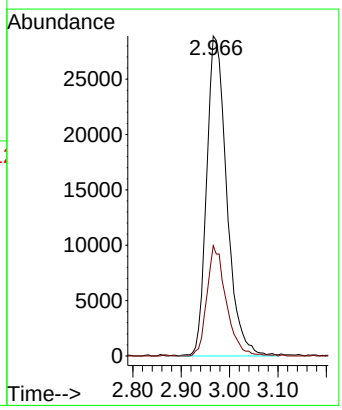
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

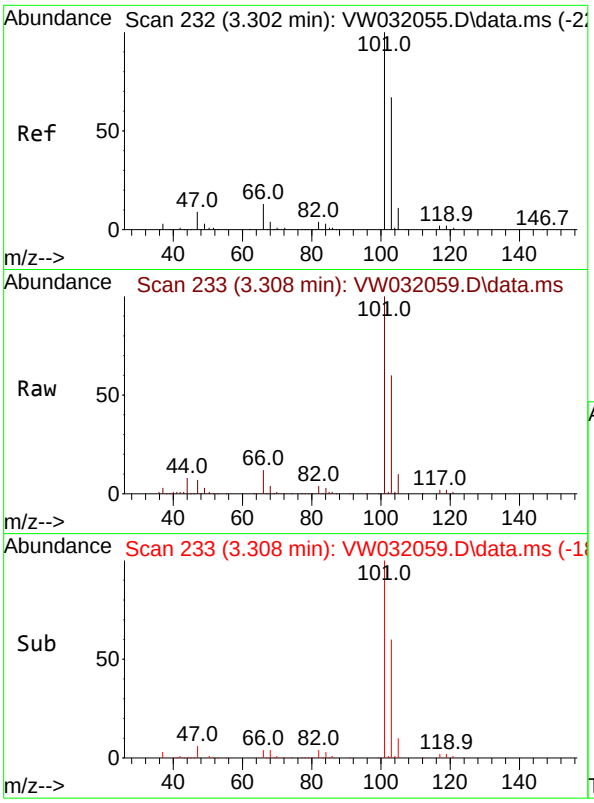



#6
Chloroethane
Concen: 47.858 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 64 Resp: 83573

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 34.4 | 26.0 | 39.0 |

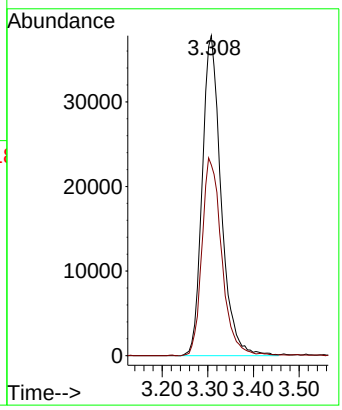





#7
Trichlorofluoromethane
Concen: 51.386 ug/l
RT: 3.308 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:101 Resp: 10863

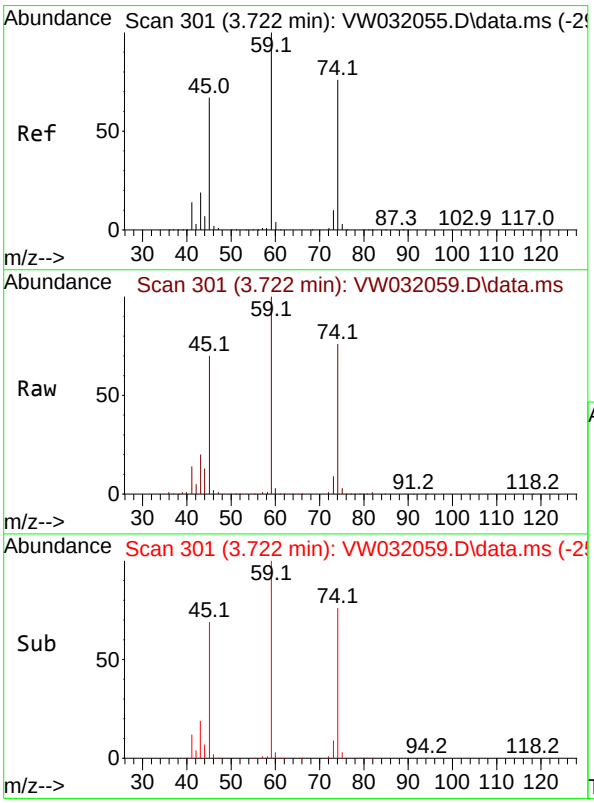
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 59.6 | 53.4 | 80.0 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

**Manual Integrations APPROVED**

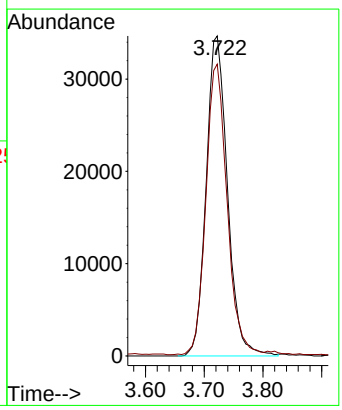
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

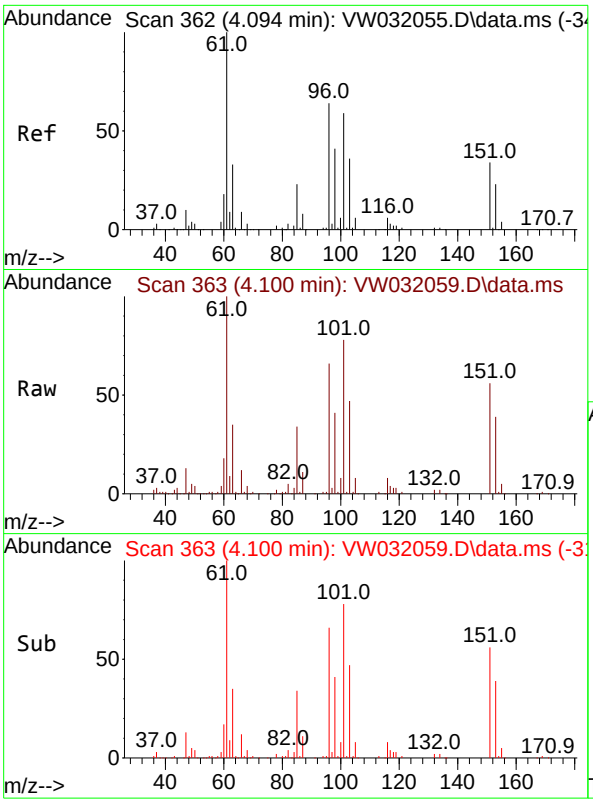



#8
Diethyl Ether
Concen: 50.380 ug/l
RT: 3.722 min Scan# 301
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 74 Resp: 87261

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 90.2 | 45.4 | 136.2 |

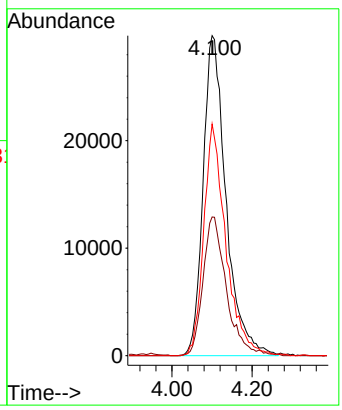





#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.316 ug/l
RT: 4.100 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:101 Resp: 11801

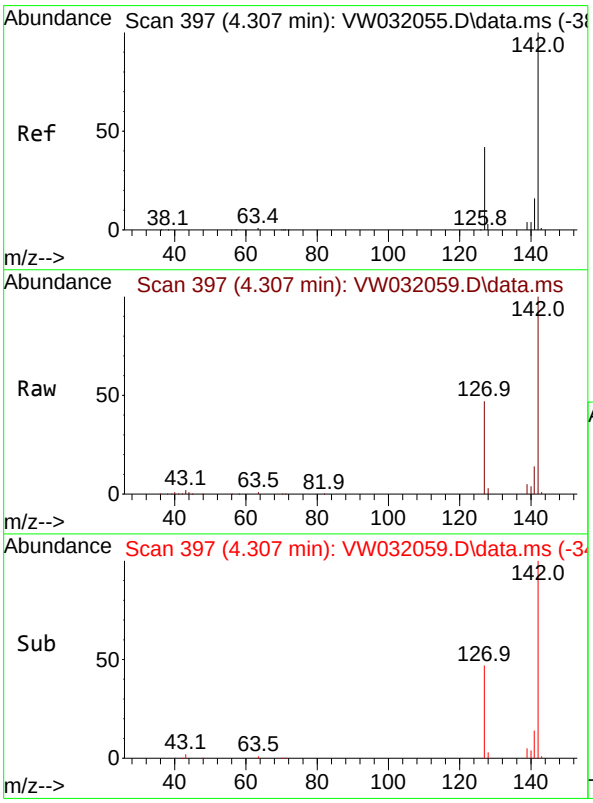
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 44.3 | 34.9 | 52.3 |
| 151 | 69.9 | 56.2 | 84.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

**Manual Integrations**
**APPROVED**

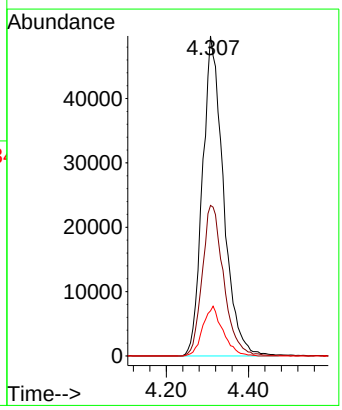
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

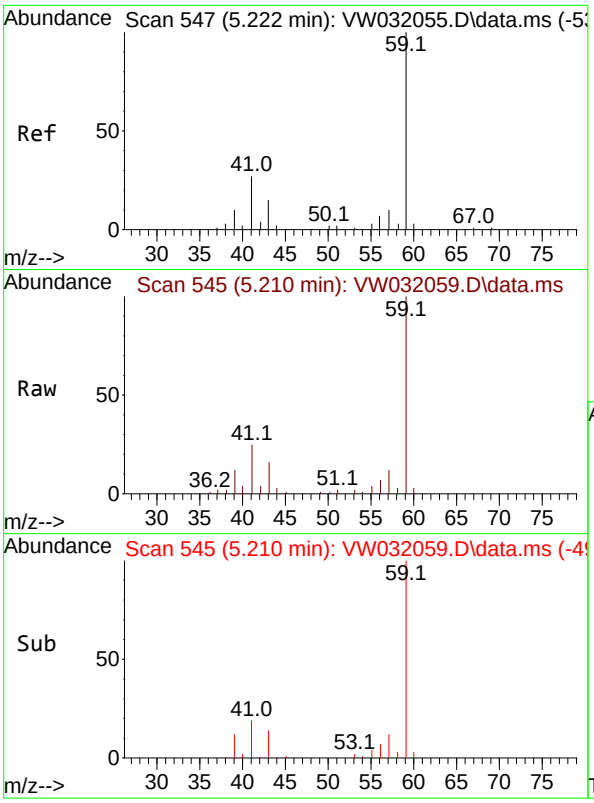



#10
Methyl Iodide
Concen: 49.742 ug/l
RT: 4.307 min Scan# 397
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:142 Resp: 175903

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 48.1 | 36.6 | 55.0 |
| 141 | 14.9 | 12.1 | 18.1 |

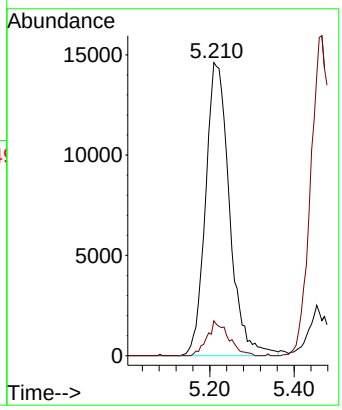





#11
Tert butyl alcohol
Concen: 271.910 ug/l
RT: 5.210 min Scan# 54
Delta R.T. -0.012 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 59 Resp: 5766

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.6 | 8.7 | 13.1 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

**Manual Integrations**
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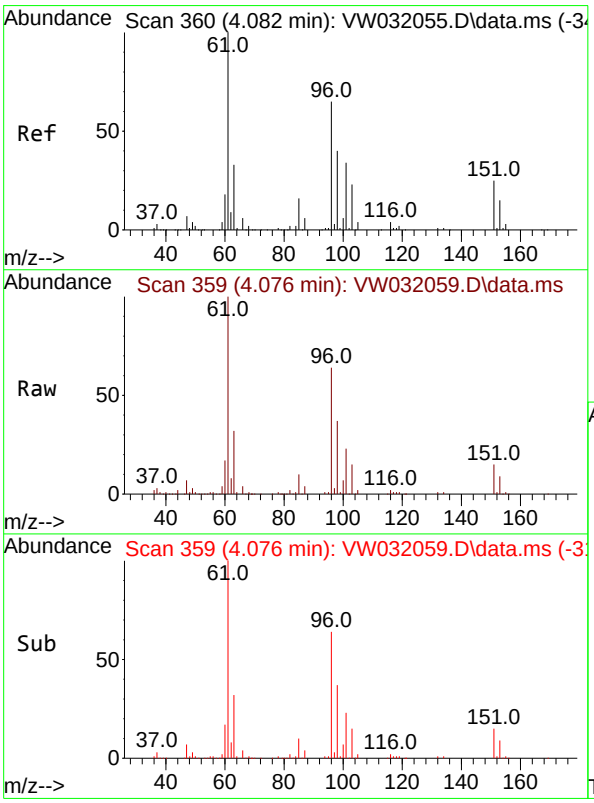
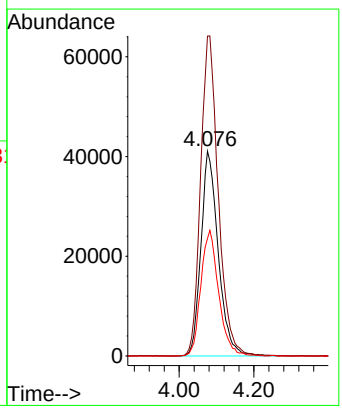
Supervised By :Semsettin Yesilyurt 08/12/2025

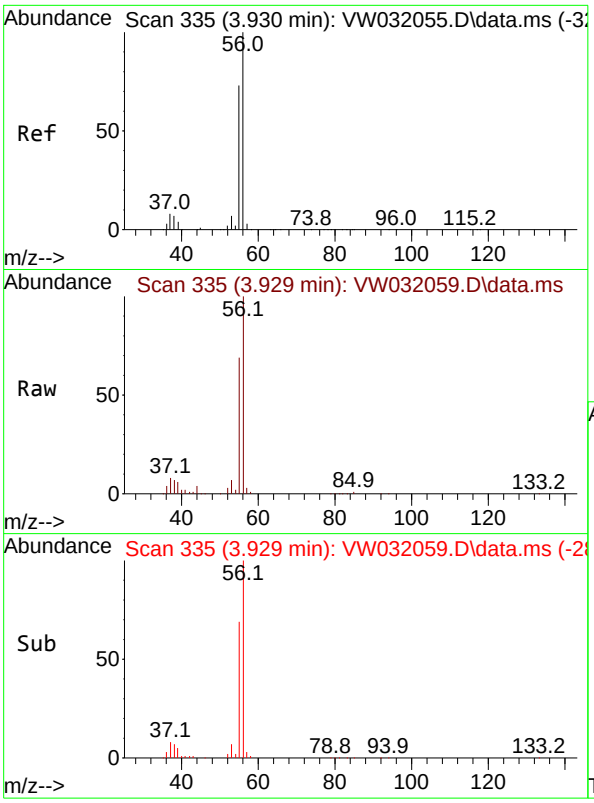



#12
1,1-Dichloroethene
Concen: 47.992 ug/l
RT: 4.076 min Scan# 359
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 96 Resp: 131802

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 156.3 | 123.4 | 185.2 |
| 98 | 57.4 | 49.5 | 74.3 |






#13
Acrolein
Concen: 236.960 ug/l
RT: 3.929 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 56 Resp: 8007

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 71.1 | 55.4 | 83.2 |

**Instrument :**
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ICVVW081125

**Manual Integrations**
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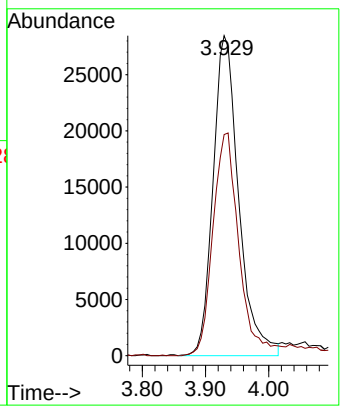
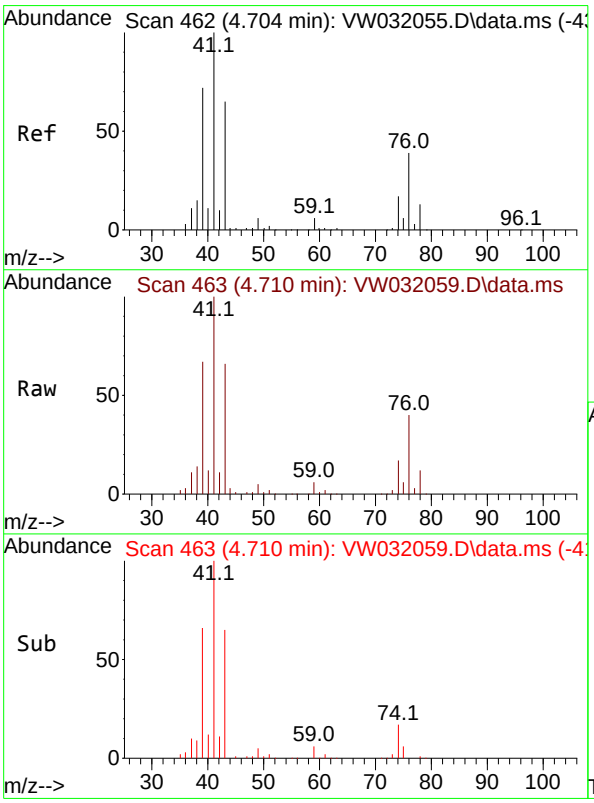
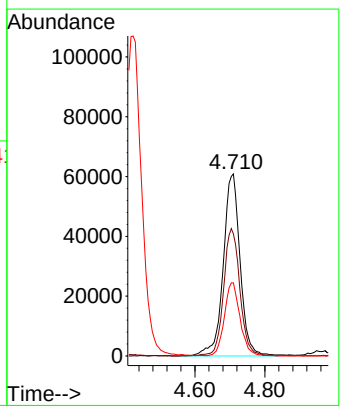


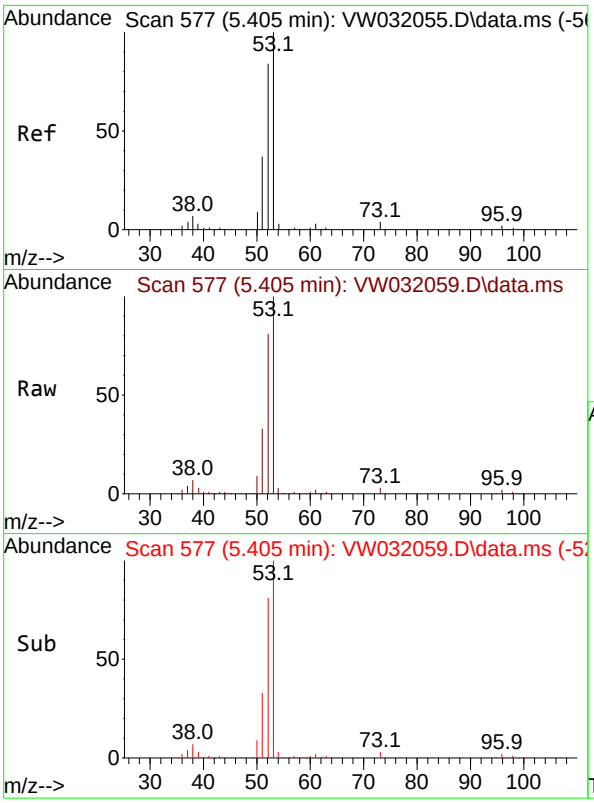




#14
Allyl chloride
Concen: 51.094 ug/l
RT: 4.710 min Scan# 463
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 41 Resp: 204222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 66.9 | 54.5 | 81.7 |
| 76 | 37.4 | 29.3 | 43.9 |

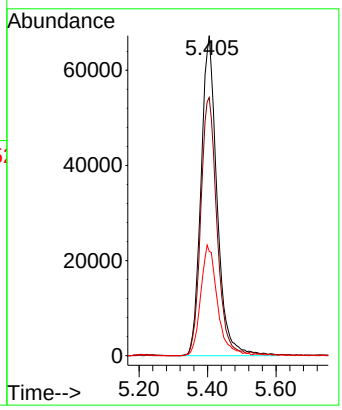





#15
Acrylonitrile
Concen: 265.958 ug/l
RT: 5.405 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 53 Resp: 21940

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.2 | 66.1 | 99.1 |
| 51 | 36.0 | 29.2 | 43.8 |




**Instrument :**
MSVOA_W
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ICVVW081125

**Manual Integrations**
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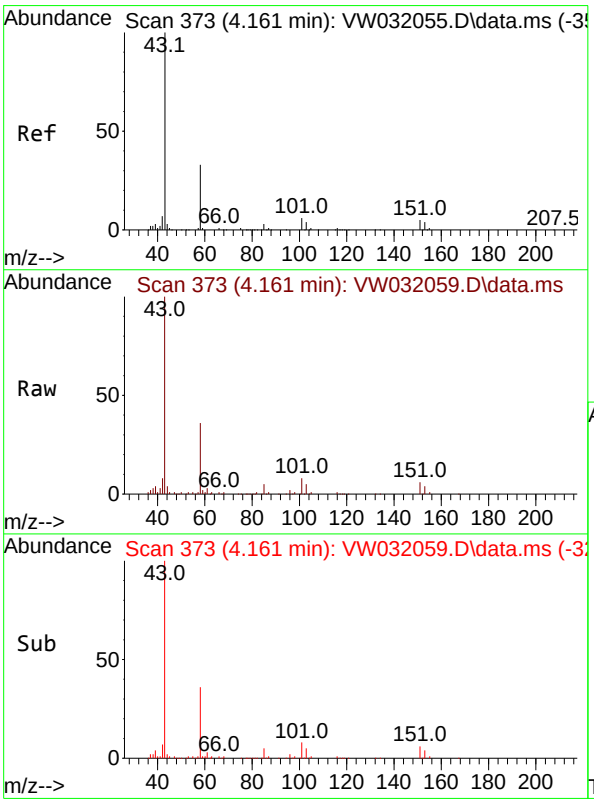
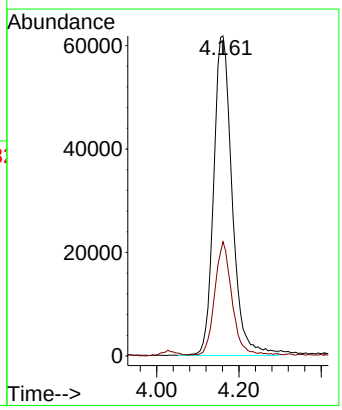
Supervised By :Semsettin Yesilyurt 08/12/2025

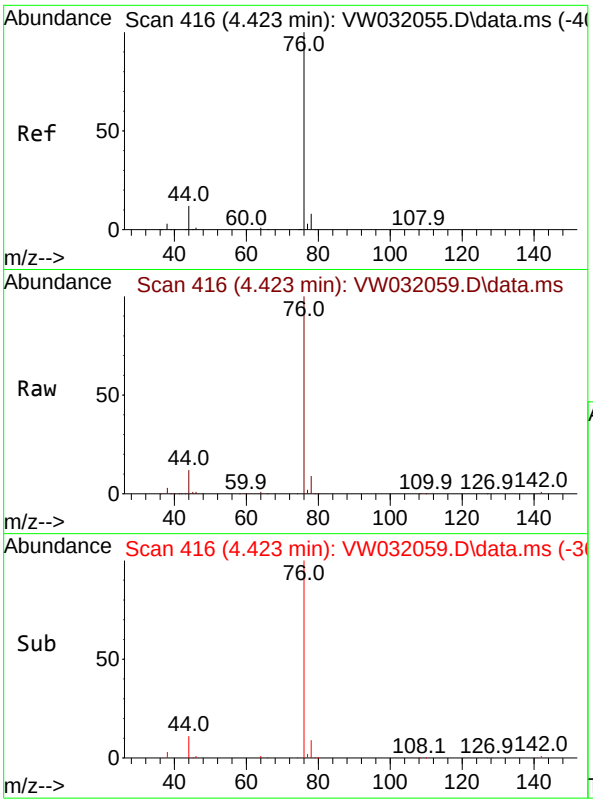



#16
Acetone
Concen: 254.262 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 43 Resp: 192802

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 35.1 | 26.6 | 39.8 |

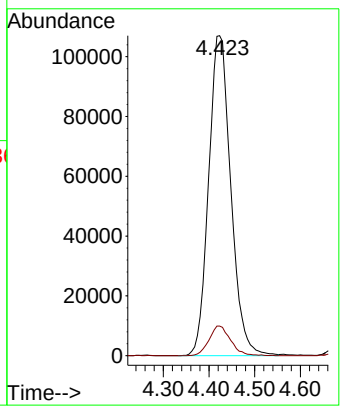





#17
Carbon Disulfide
Concen: 48.970 ug/l
RT: 4.423 min Scan# 4
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 76 Resp: 36098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.3 | 6.4 | 9.6 |

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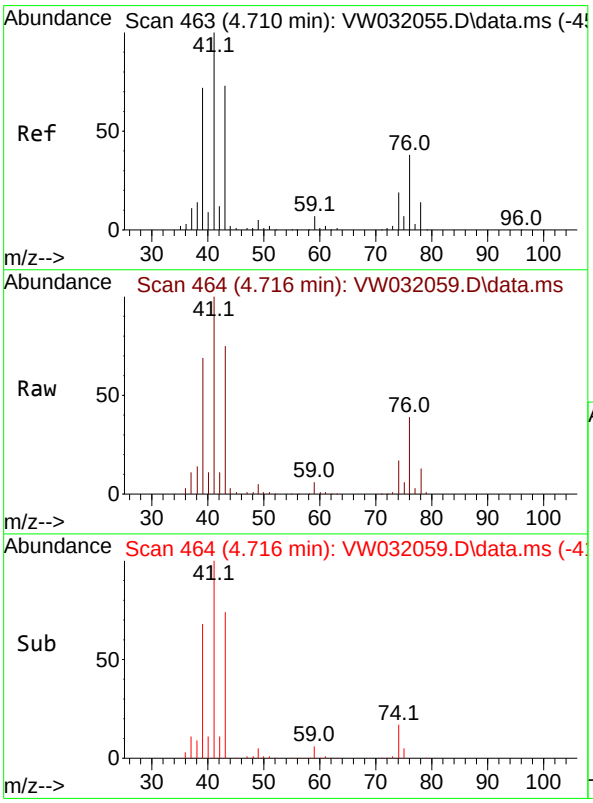
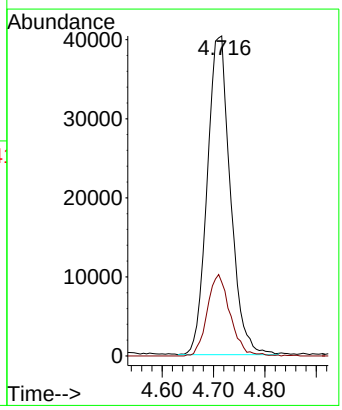
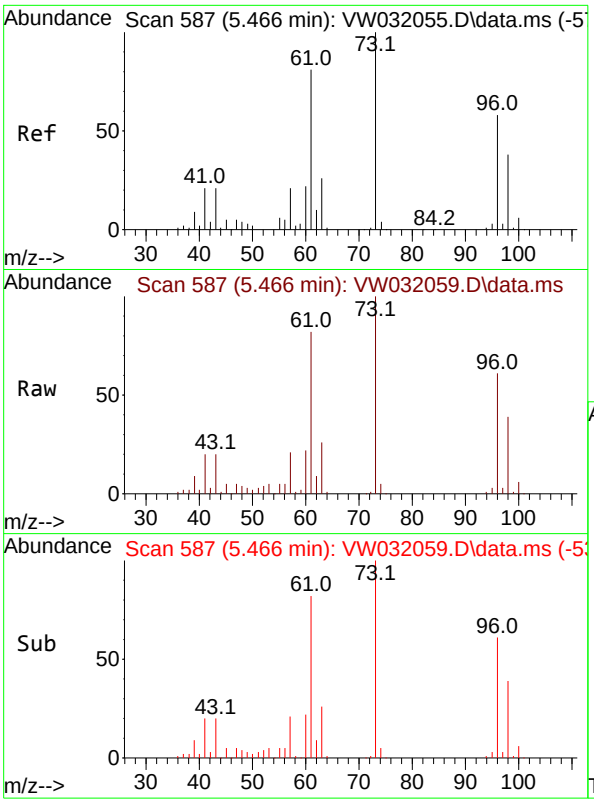



#18
Methyl Acetate
Concen: 52.614 ug/l
RT: 4.716 min Scan# 464
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 43 Resp: 126246

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 25.3 | 20.6 | 31.0 |

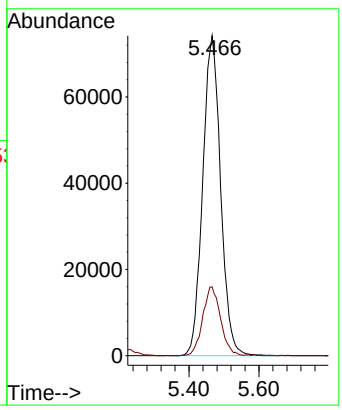





#19
Methyl tert-butyl Ether
Concen: 54.465 ug/l
RT: 5.466 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 73 Resp: 26354

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.5 | 17.2 | 25.8 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

**Manual Integrations APPROVED**

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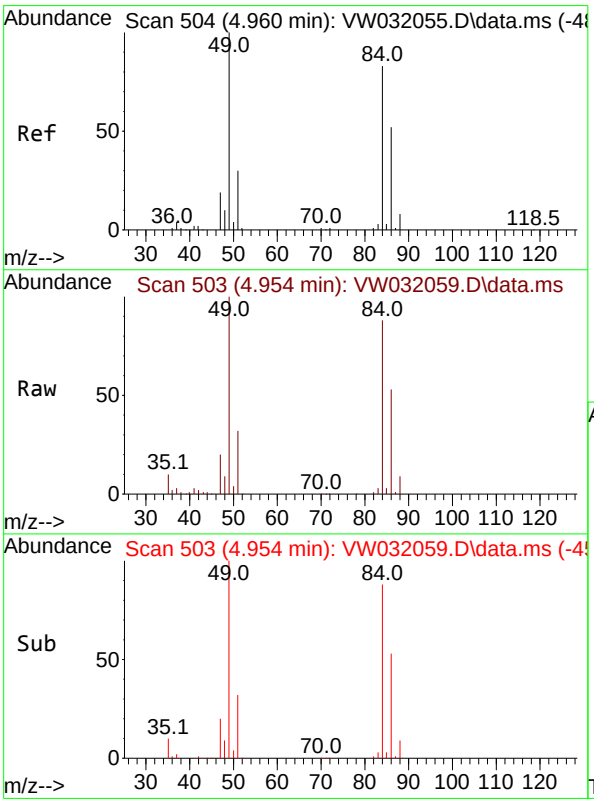
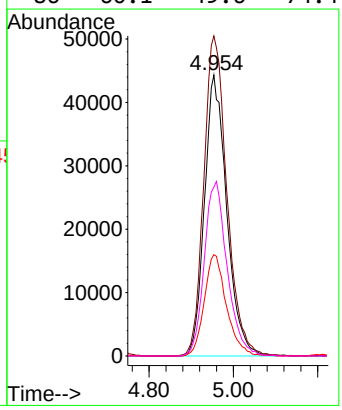
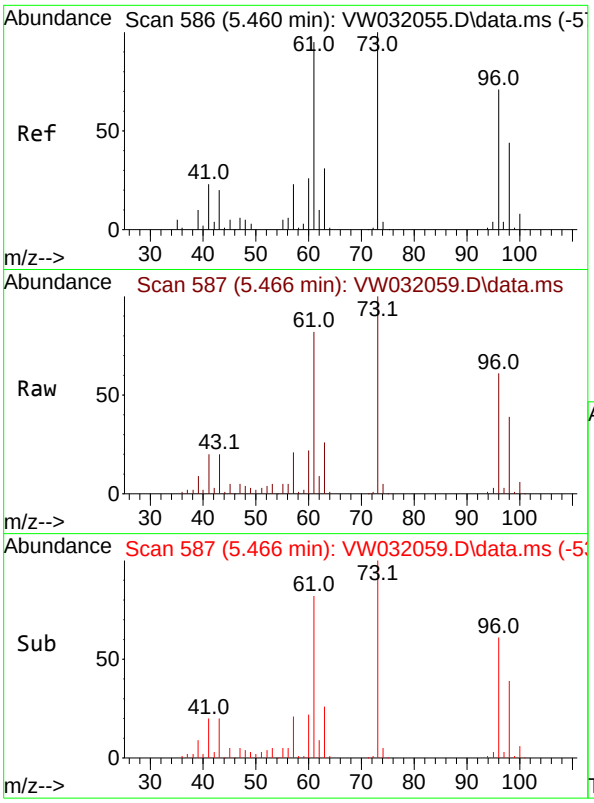



#20
Methylene Chloride
Concen: 46.453 ug/l
RT: 4.954 min Scan# 503
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 84 Resp: 162865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 113.9 | 95.9 | 143.9 |
| 51 | 36.1 | 28.6 | 43.0 |
| 86 | 60.1 | 49.6 | 74.4 |

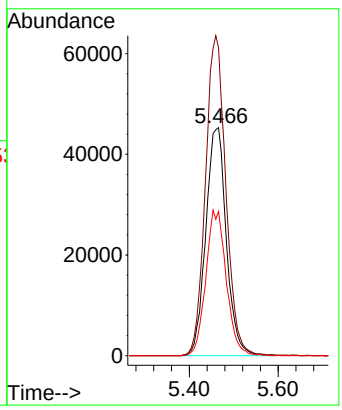





#21
trans-1,2-Dichloroethene
Concen: 50.035 ug/l
RT: 5.466 min Scan# 5
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 96 Resp: 14582

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 135.2 | 106.8 | 160.2 |
| 98 | 63.3 | 49.6 | 74.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

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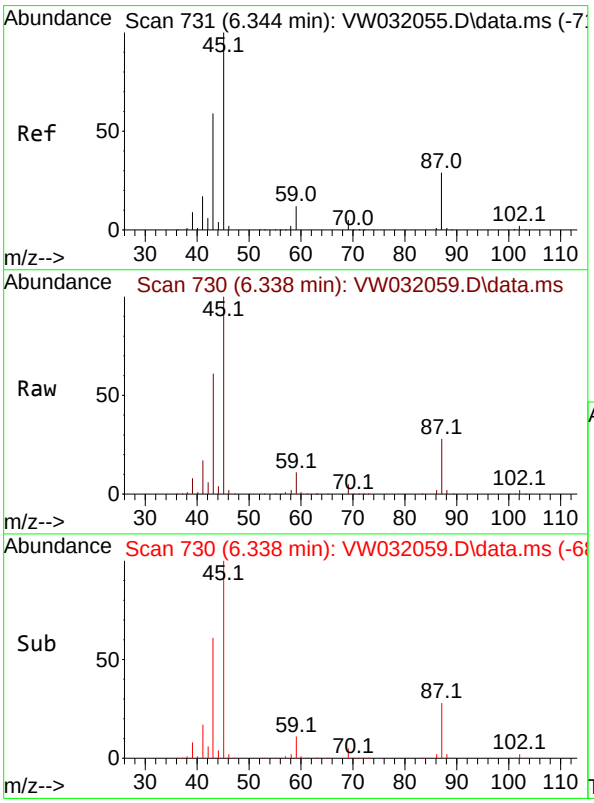
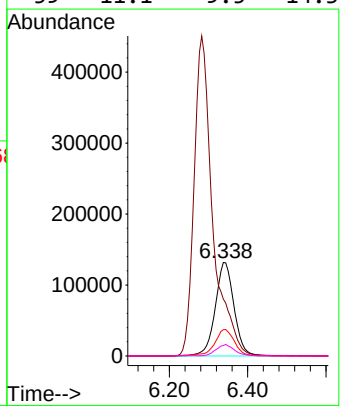
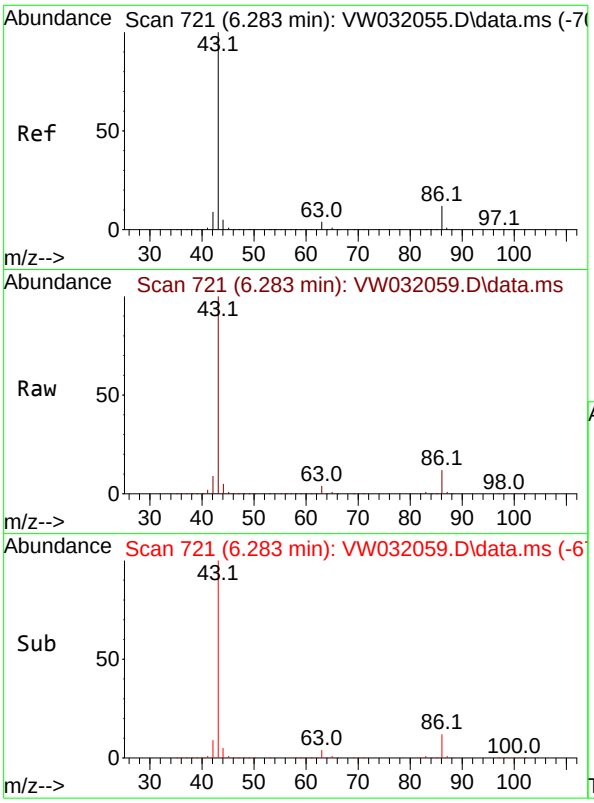



#22
Diisopropyl ether
Concen: 52.038 ug/l
RT: 6.338 min Scan# 730
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 45 Resp: 438483

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 60.4 | 47.0 | 70.4 |
| 87 | 28.0 | 23.8 | 35.8 |
| 59 | 11.1 | 9.5 | 14.3 |






#23
Vinyl Acetate
Concen: 270.210 ug/l
RT: 6.283 min Scan# 7
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 43 Resp: 149487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.7 | 9.4 | 14.0 |

**Instrument :**
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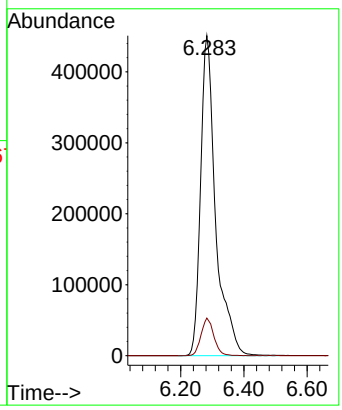
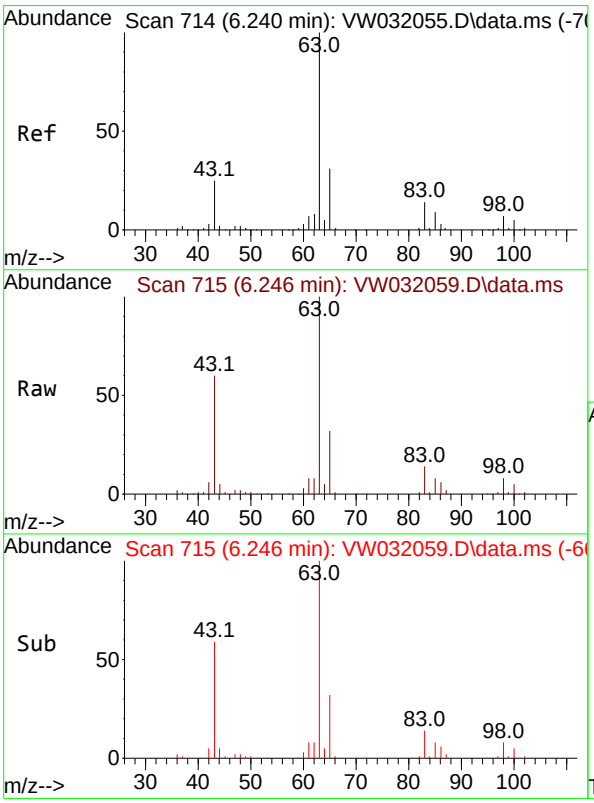
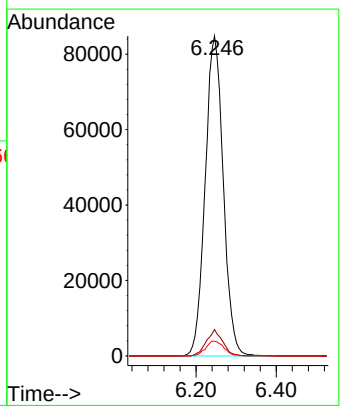


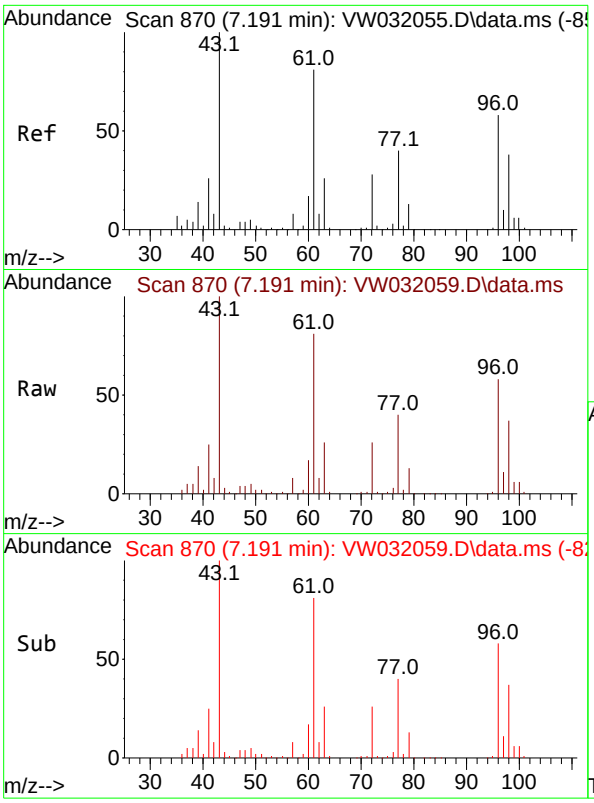




#24
1,1-Dichloroethane
Concen: 49.234 ug/l
RT: 6.246 min Scan# 715
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 63 Resp: 265060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 8.3 | 3.7 | 11.1 |
| 100 | 4.6 | 2.5 | 7.4 |

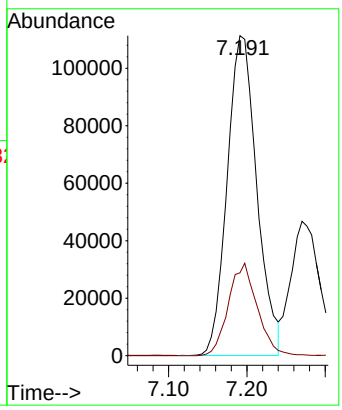





#25
2-Butanone
Concen: 272.083 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 43 Resp: 29322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 25.9 | 22.3 | 33.5 |

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MSVOA_W
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ICVVW081125

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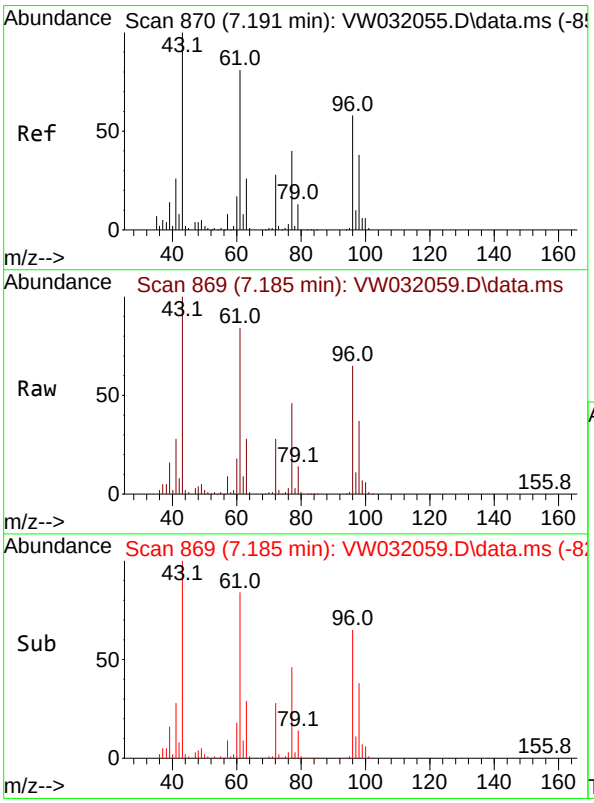
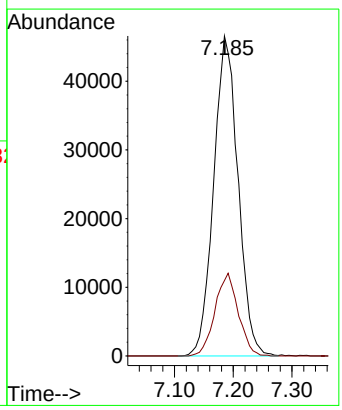
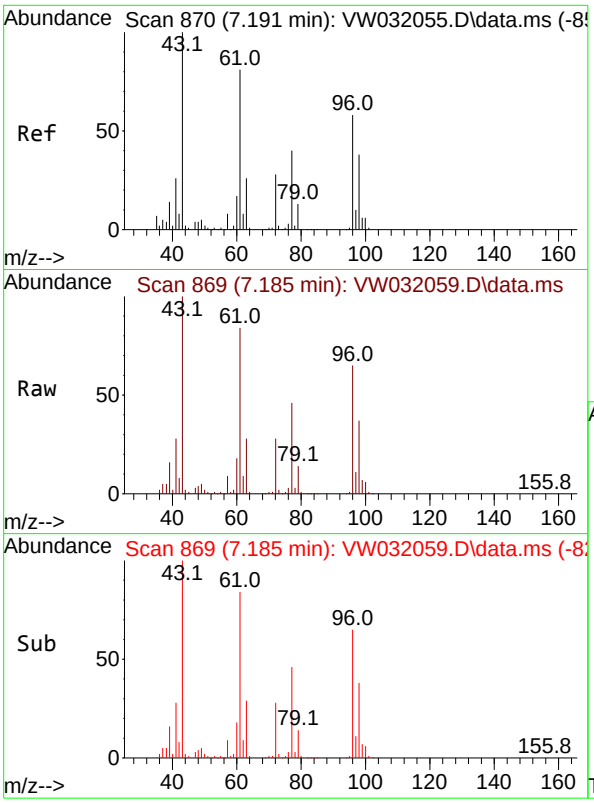



#26
2,2-Dichloropropane
Concen: 49.659 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 77 Resp: 134123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 24.7 | 12.3 | 36.9 |






#27
cis-1,2-Dichloroethene
Concen: 51.404 ug/l
RT: 7.185 min Scan# 8
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 96 Resp: 17512

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 137.9 | 0.0 | 281.2 |
| 98 | 63.6 | 0.0 | 130.8 |

**Instrument :**
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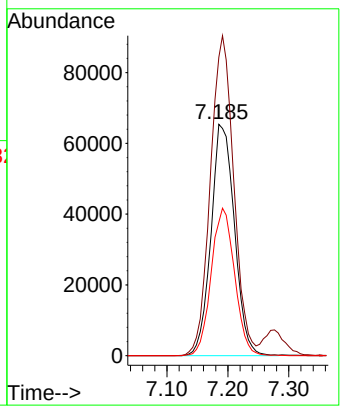
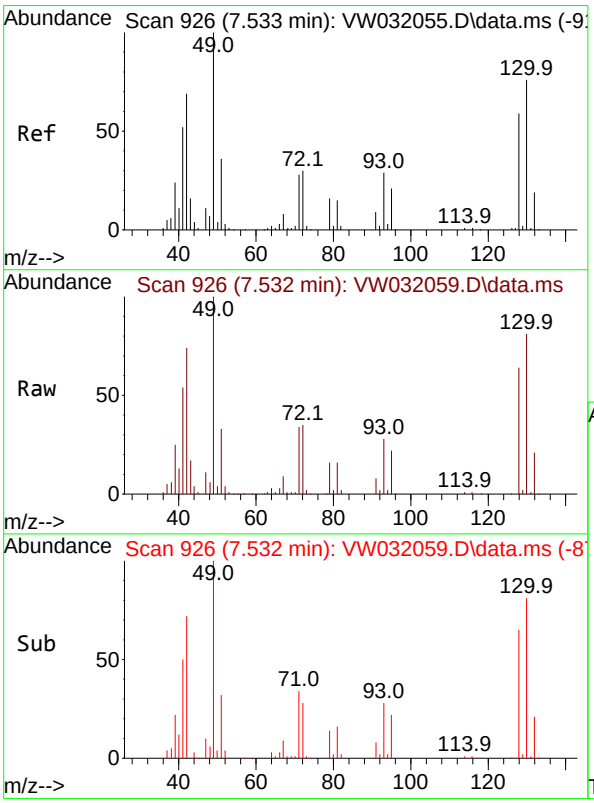
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

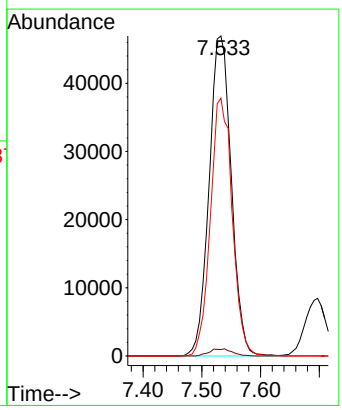


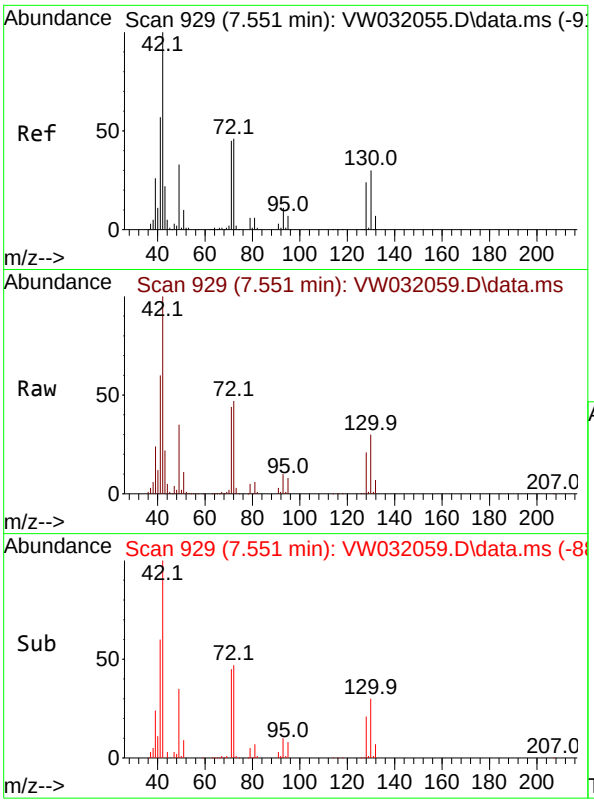




#28
Bromochloromethane
Concen: 50.315 ug/l
RT: 7.532 min Scan# 926
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 49 Resp: 123268

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.3 | 0.0 | 4.2 |
| 130 | 79.0 | 61.9 | 92.9 |

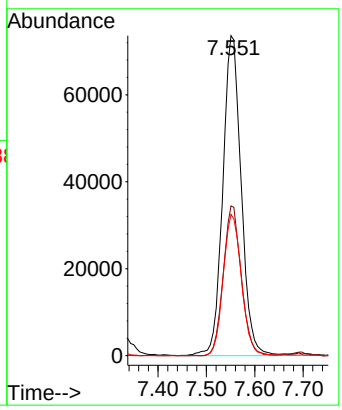





#29
Tetrahydrofuran
Concen: 274.235 ug/l
RT: 7.551 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 42 Resp: 19490

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 45.7 | 36.6 | 55.0 |
| 71 | 43.9 | 34.7 | 52.1 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

**Manual Integrations**
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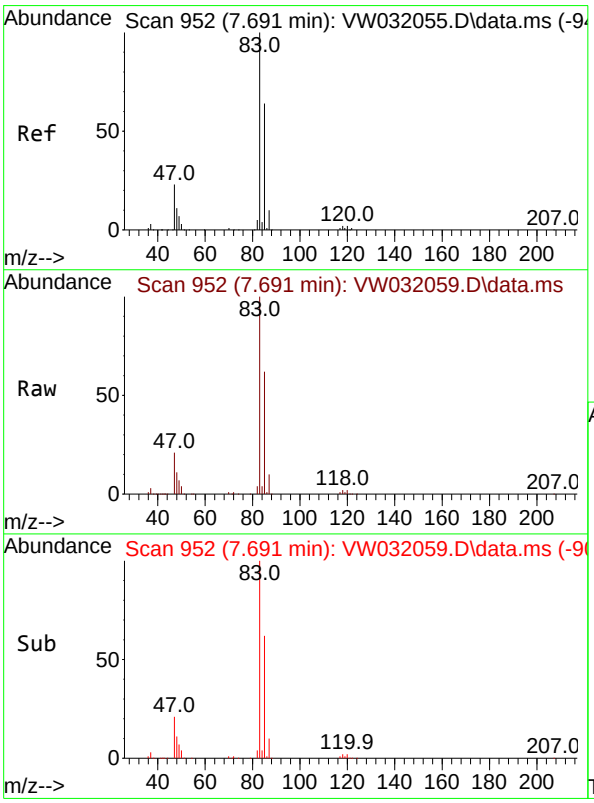
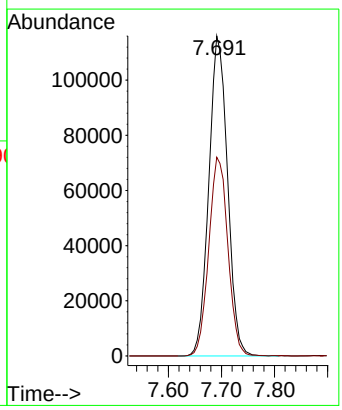
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

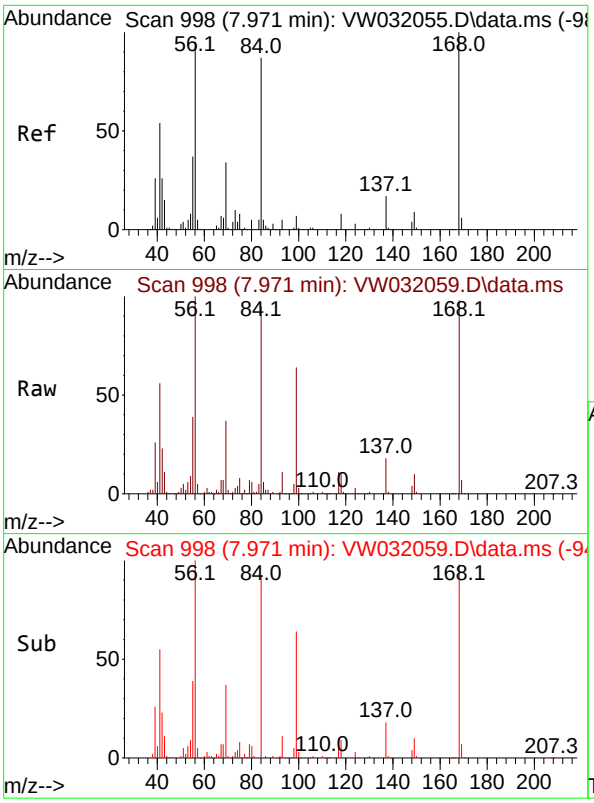



#30
Chloroform
Concen: 49.803 ug/l
RT: 7.691 min Scan# 952
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 83 Resp: 284250

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.1 | 51.0 | 76.4 |

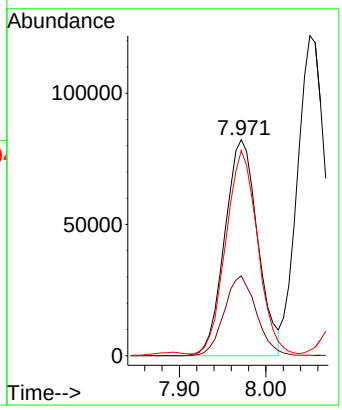





#31
Cyclohexane
Concen: 46.646 ug/l
RT: 7.971 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 56 Resp: 21771

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 36.9 | 28.6 | 42.8 |
| 84 | 93.6 | 73.0 | 109.4 |

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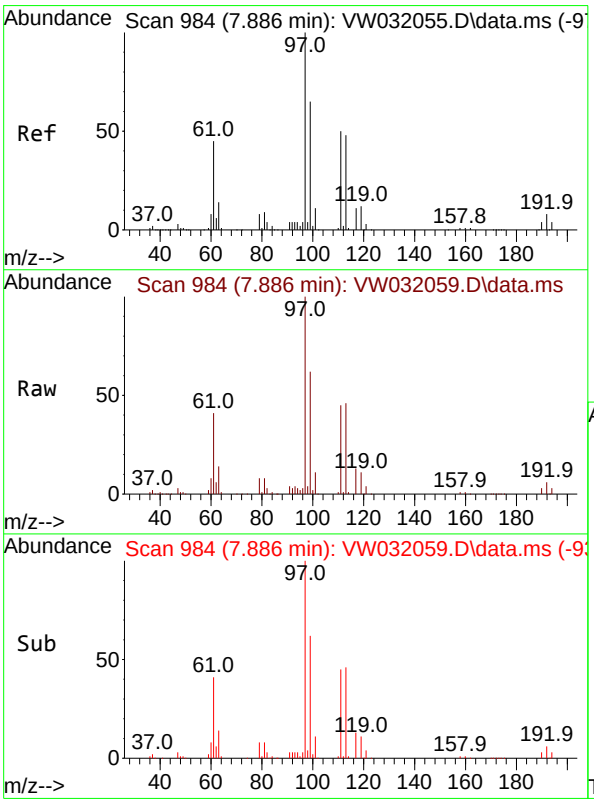
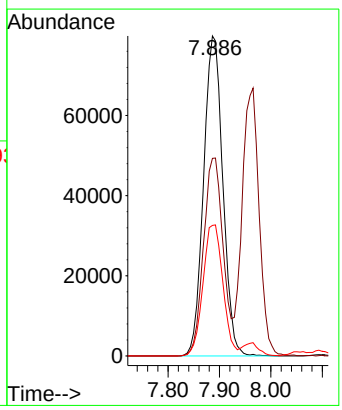
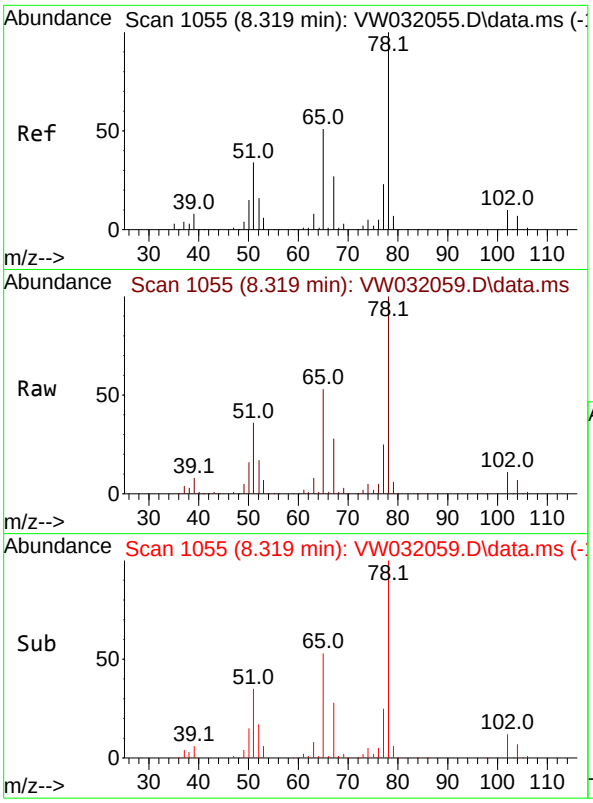



#32
1,1,1-Trichloroethane
Concen: 50.108 ug/l
RT: 7.886 min Scan# 984
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 97 Resp: 207733

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 62.3 | 51.8 | 77.8 |
| 61 | 42.4 | 35.9 | 53.9 |

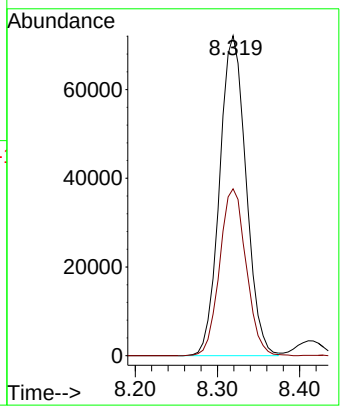





#33
1,2-Dichloroethane-d4
Concen: 49.205 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 65 Resp: 16115

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.2 | 0.0 | 102.4 |

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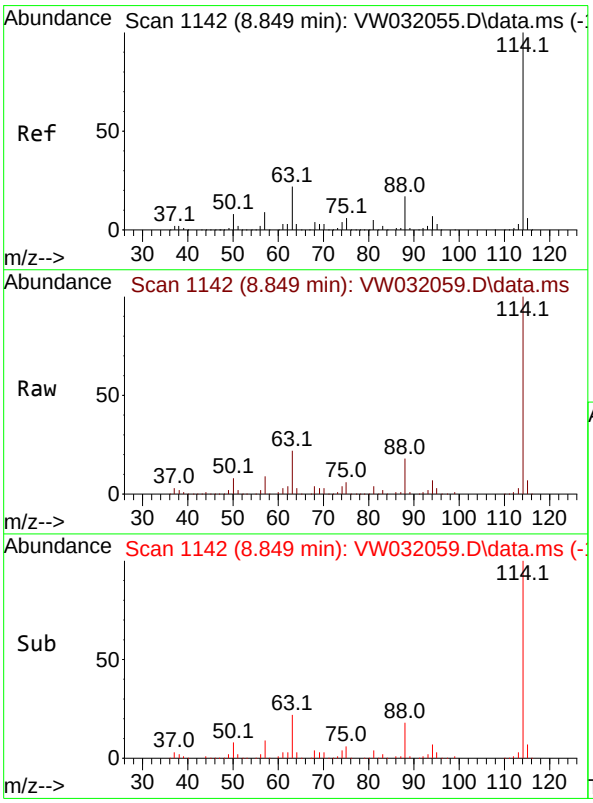
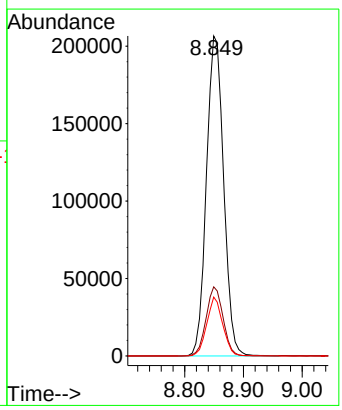
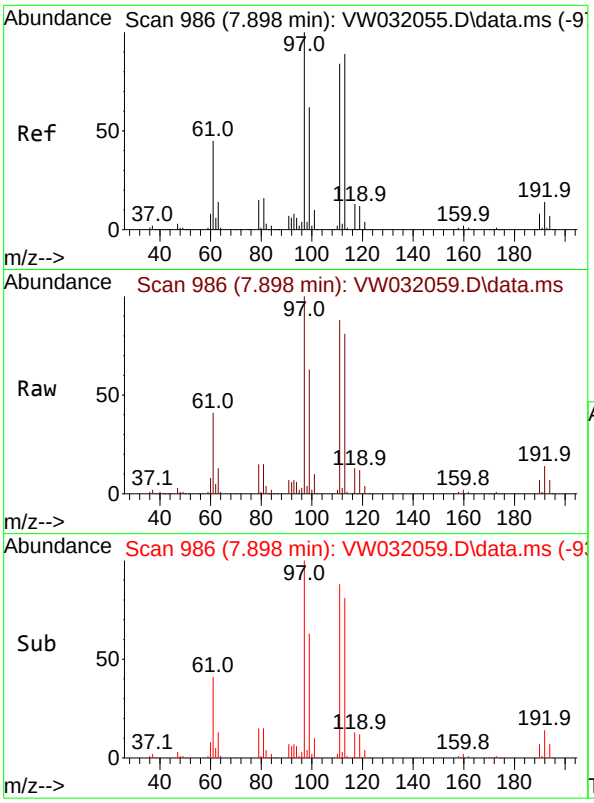



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:114 Resp: 420434

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.6 | 0.0 | 43.0 |
| 88 | 18.4 | 0.0 | 33.8 |

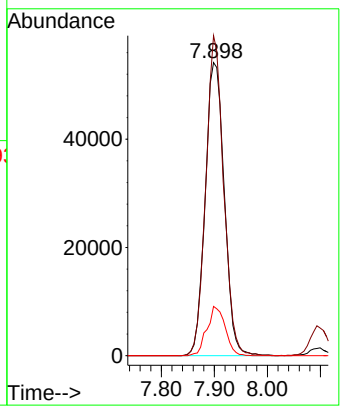





#35
Dibromofluoromethane
Concen: 49.939 ug/l
RT: 7.898 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:113 Resp: 13564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.0 | 80.1 | 120.1 |
| 192 | 16.1 | 13.1 | 19.7 |

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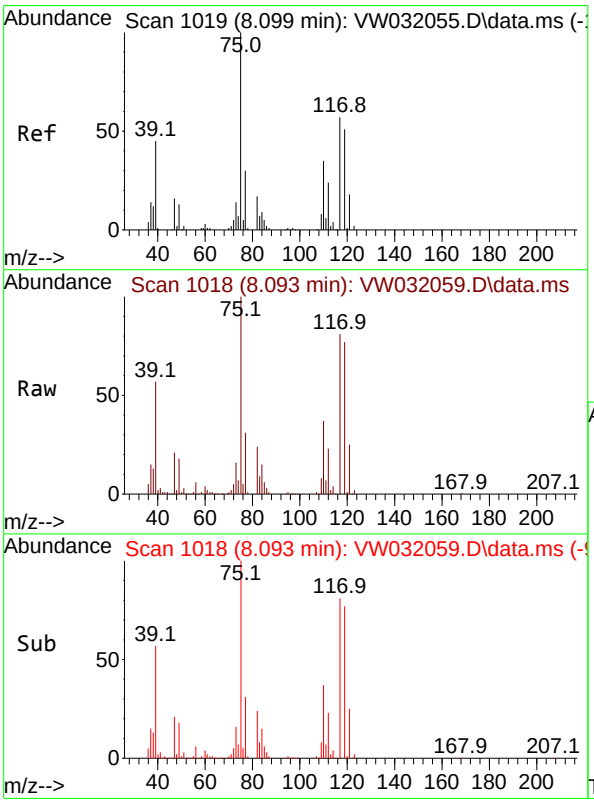
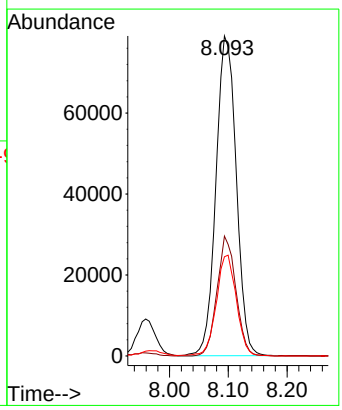
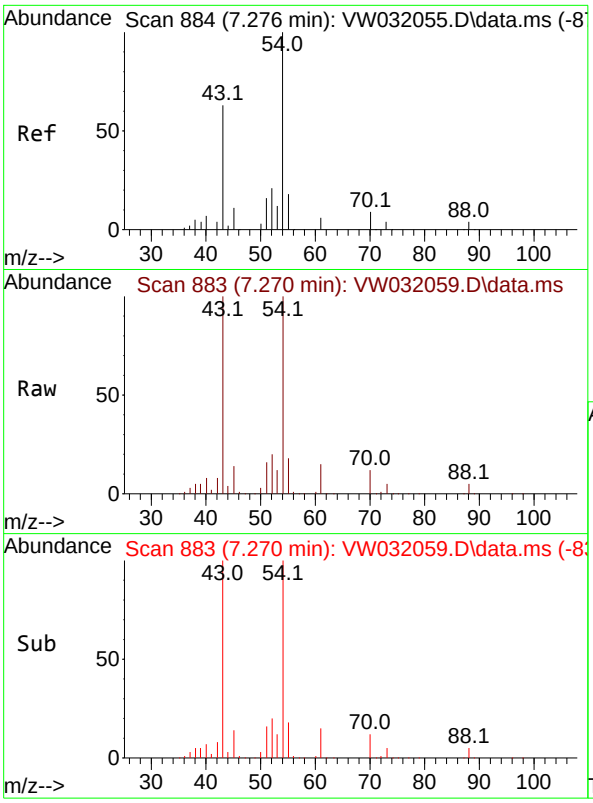



#36
1,1-Dichloropropene
Concen: 49.574 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 75 Resp: 189820

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 34.9 | 17.4 | 52.2 |
| 77 | 31.3 | 24.7 | 37.1 |

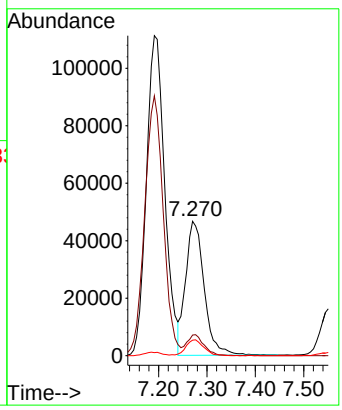





#37
Ethyl Acetate
Concen: 55.214 ug/l
RT: 7.270 min Scan# 8
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 43 Resp: 12451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.6 | 11.8 | 17.6 |
| 70 | 11.3 | 9.4 | 14.0 |




**Instrument :**
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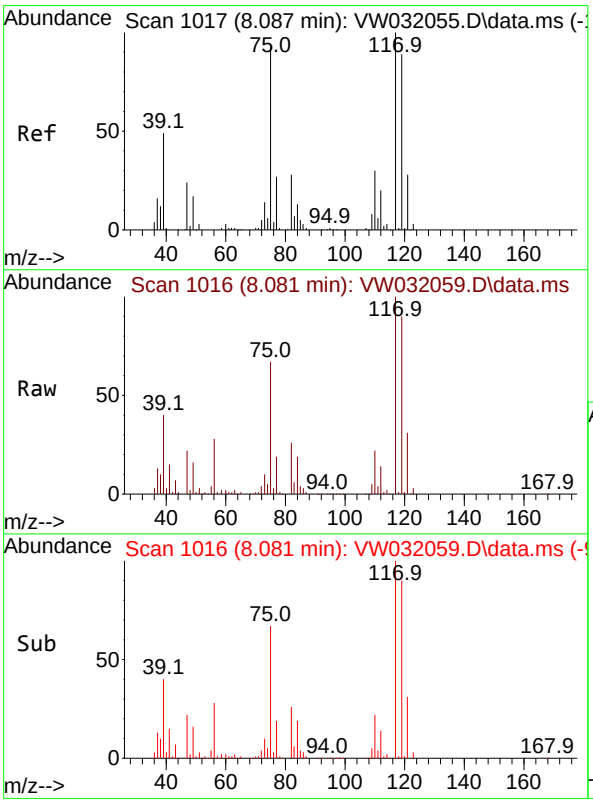
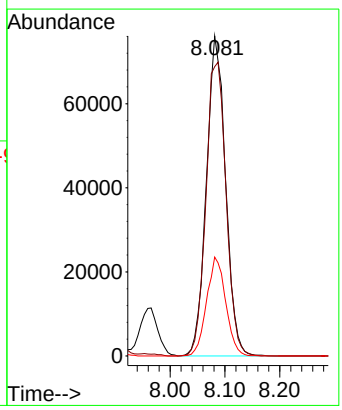
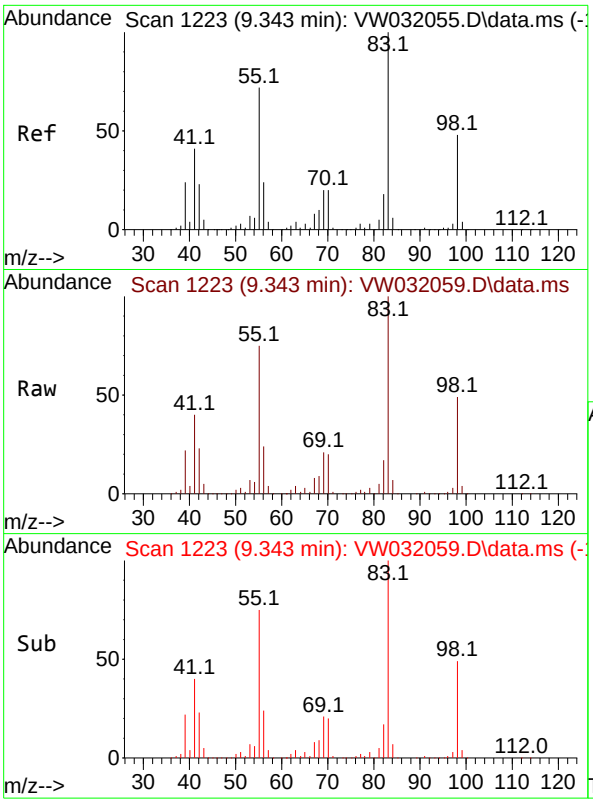



#38
Carbon Tetrachloride
Concen: 50.015 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:117 Resp: 184816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 90.4 | 71.4 | 107.2 |
| 121 | 30.9 | 22.3 | 33.5 |

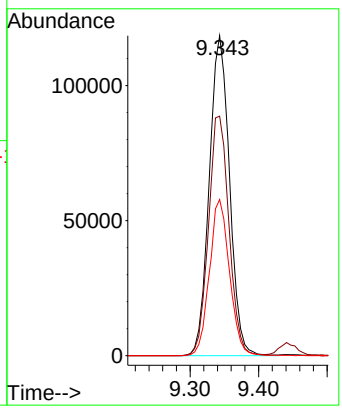





#39
Methylcyclohexane
Concen: 52.181 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 83 Resp: 24353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 74.9 | 57.9 | 86.9 |
| 98 | 48.8 | 38.3 | 57.5 |




**Instrument :**
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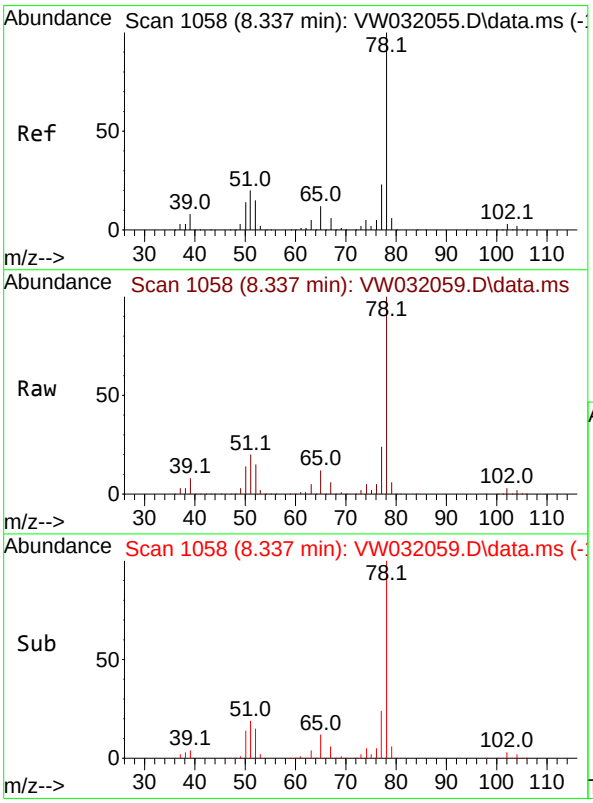
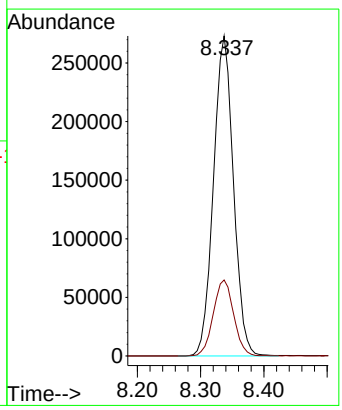
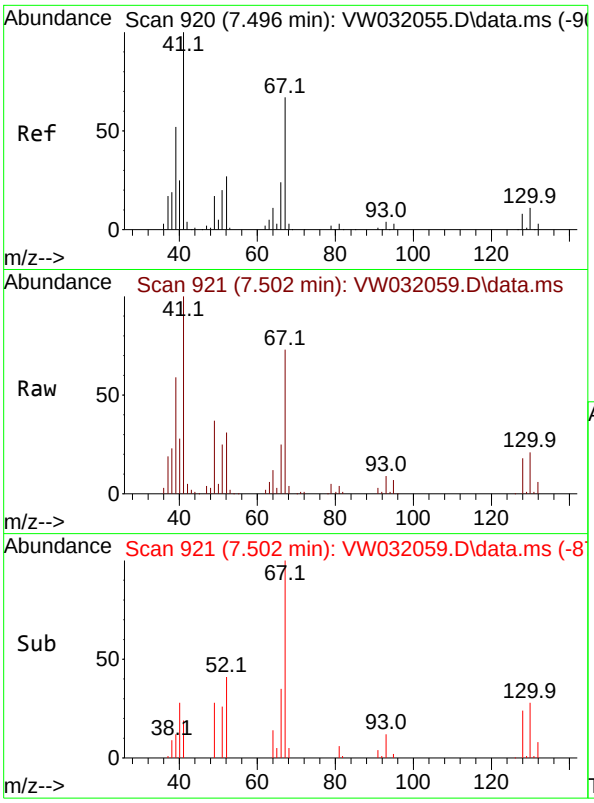



#40
Benzene
Concen: 50.272 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 78 Resp: 598350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.7 | 18.4 | 27.6 |

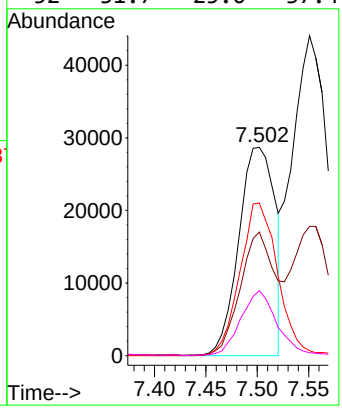





#41
Methacrylonitrile
Concen: 55.204 ug/l
RT: 7.502 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 41 Resp: 7060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 60.0 | 42.6 | 63.8 |
| 67 | 76.4 | 61.0 | 91.4 |
| 52 | 31.7 | 25.0 | 37.4 |

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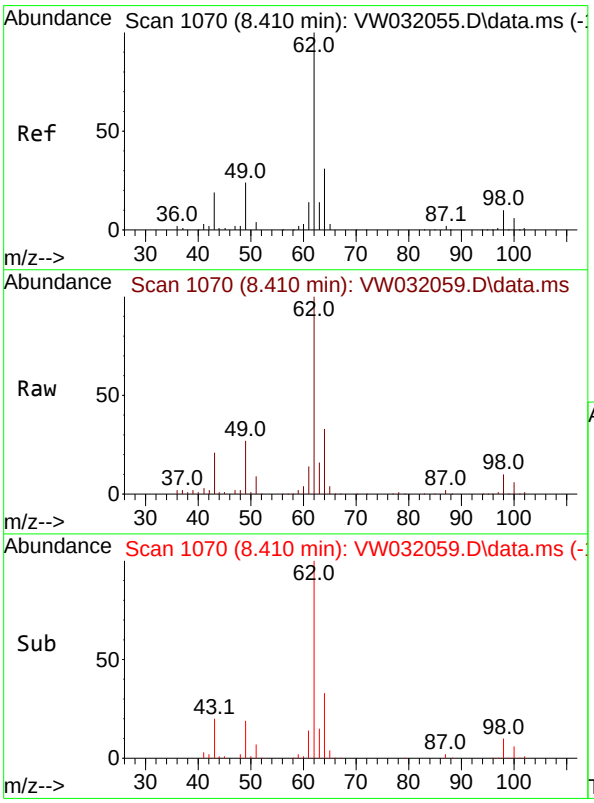
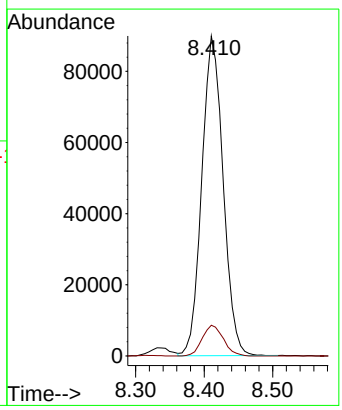
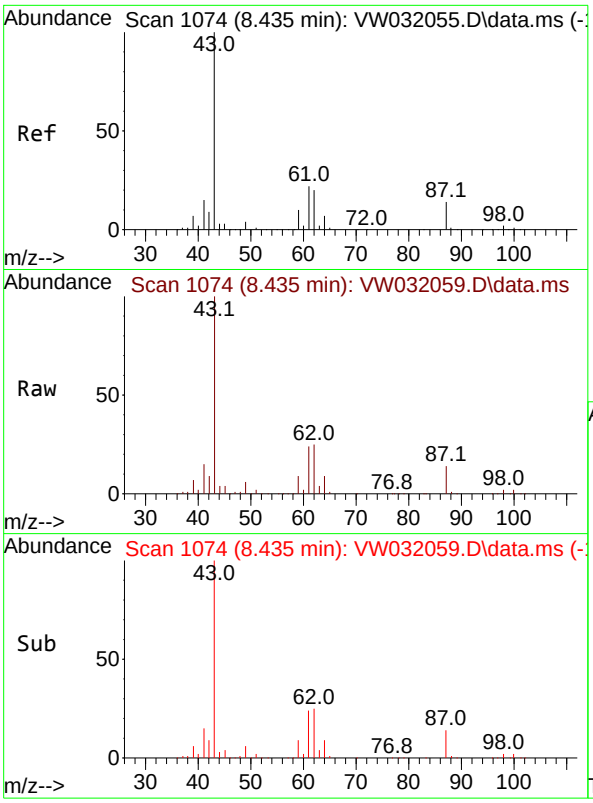



#42
1,2-Dichloroethane
Concen: 51.154 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 62 Resp: 194825

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.5 | 0.0 | 19.8 |

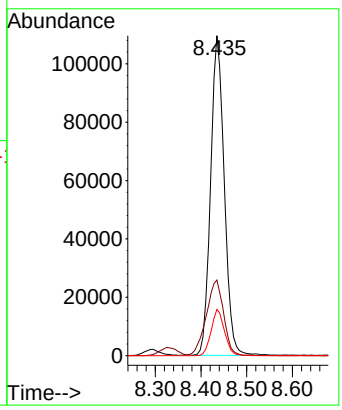





#43
Isopropyl Acetate
Concen: 54.846 ug/l
RT: 8.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 43 Resp: 22756

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 29.6 | 23.8 | 35.8 |
| 87 | 14.1 | 11.7 | 17.5 |

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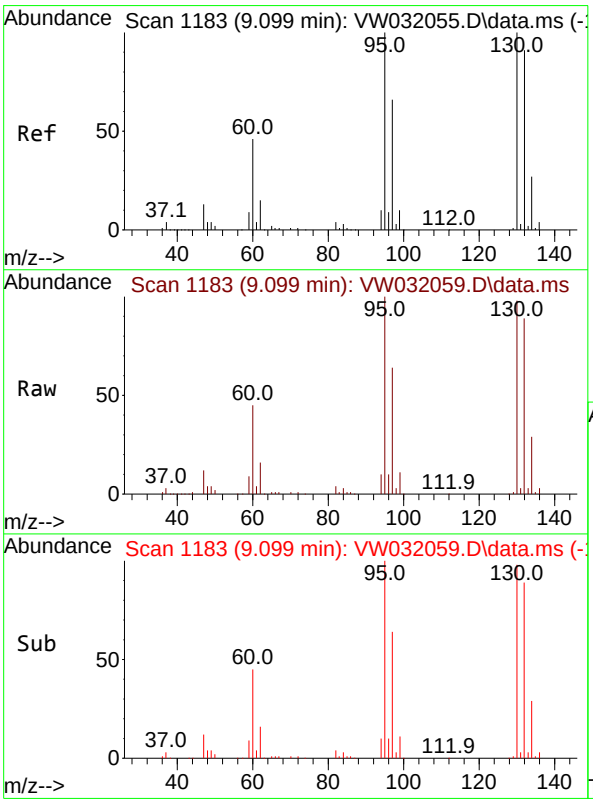
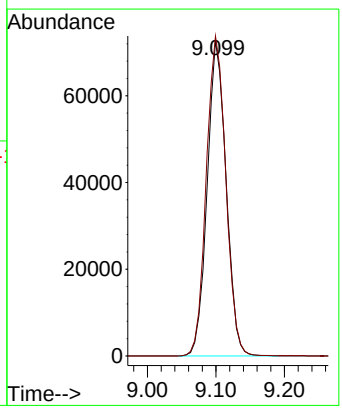
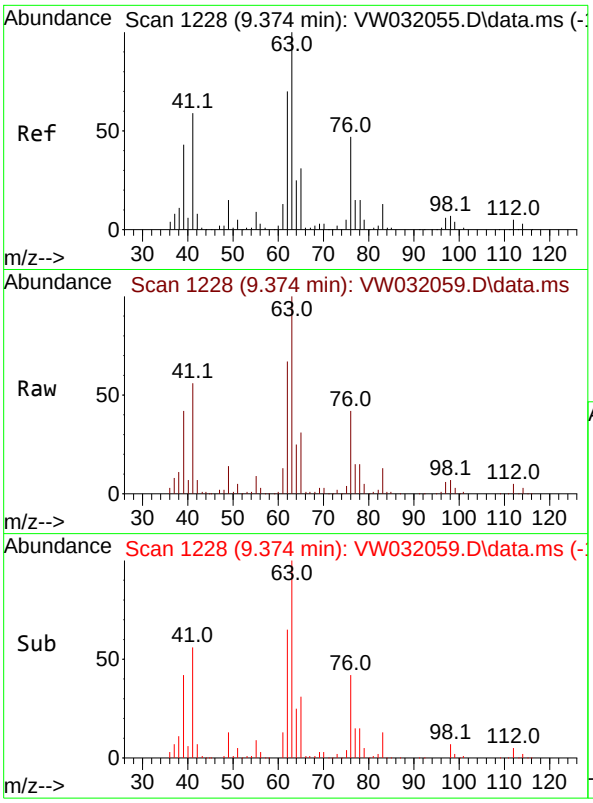



#44
Trichloroethene
Concen: 49.175 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:130 Resp: 139383

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 101.6 | 0.0 | 200.6 |

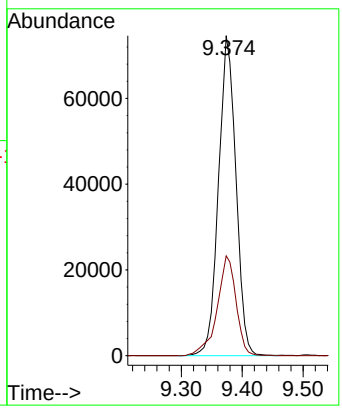





#45
1,2-Dichloropropane
Concen: 51.403 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 63 Resp: 14780

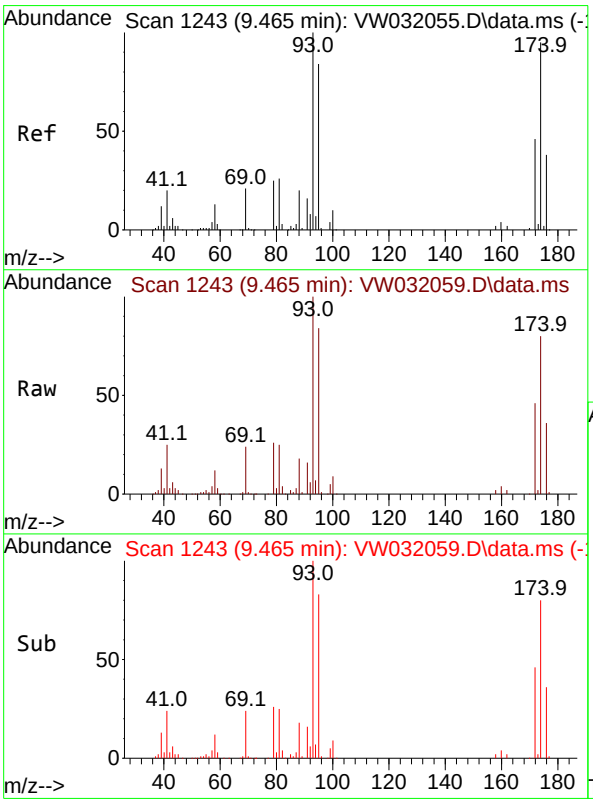
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.2 | 24.6 | 36.8 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

**Manual Integrations APPROVED**

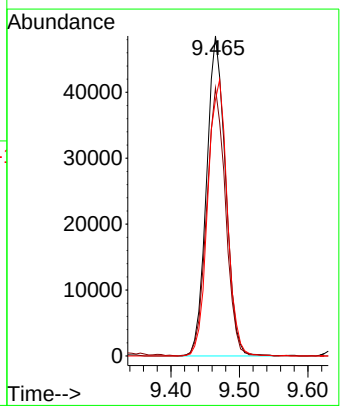
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

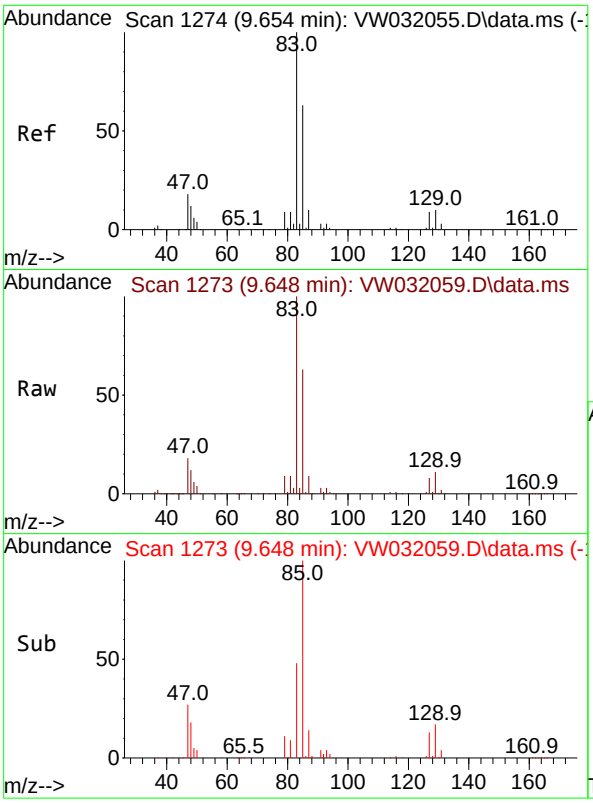



#46
Dibromomethane
Concen: 50.497 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 93 Resp: 93713

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 83.5 | 65.3 | 97.9 |
| 174 | 88.0 | 68.6 | 102.8 |

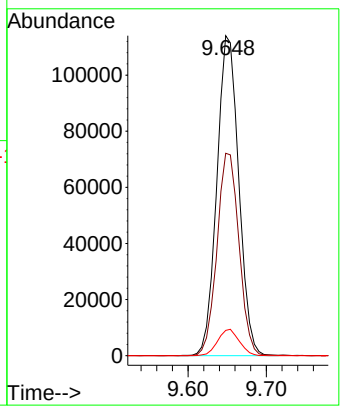





#47
Bromodichloromethane
Concen: 51.775 ug/l
RT: 9.648 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 83 Resp: 22140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.3 | 50.6 | 75.8 |
| 127 | 7.9 | 6.9 | 10.3 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

**Manual Integrations**
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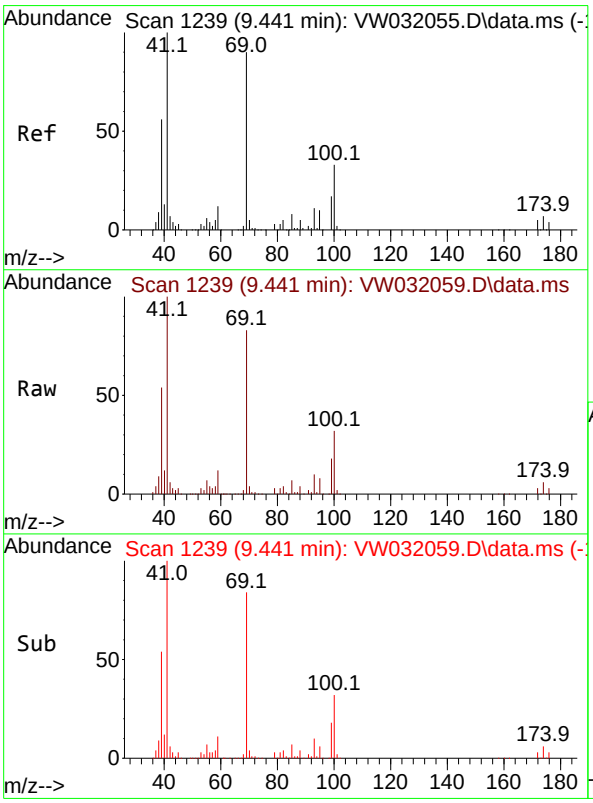
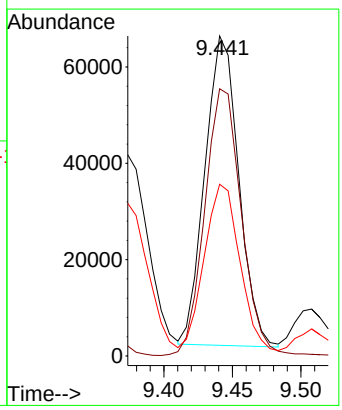
Supervised By :Semsettin Yesilyurt 08/12/2025

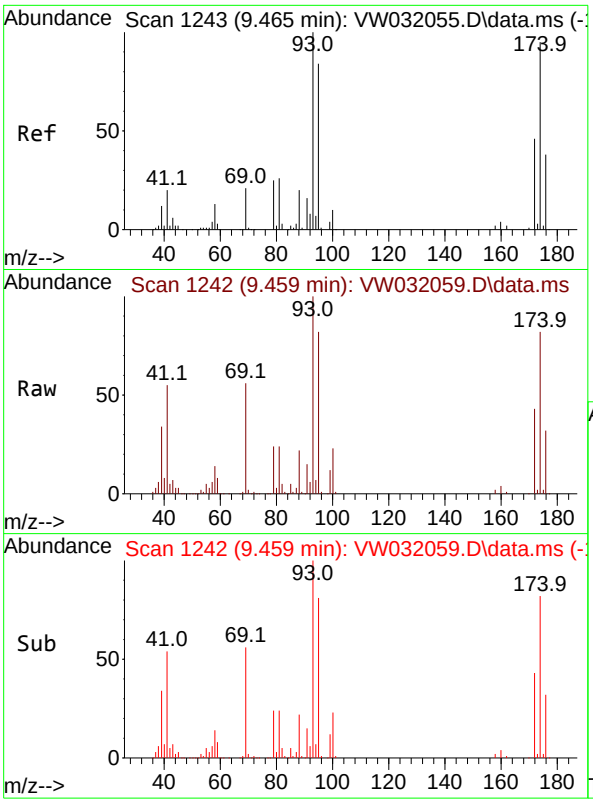



#48
Methyl methacrylate
Concen: 55.048 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 41 Resp: 110265

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 94.5 | 73.0 | 109.6 |
| 39 | 56.0 | 45.0 | 67.4 |

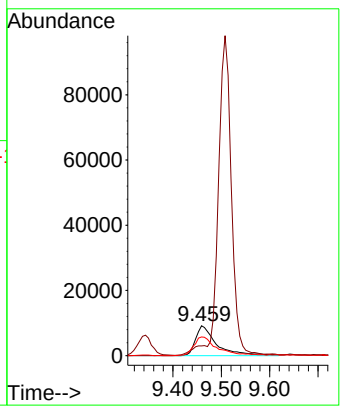





#49
1,4-Dioxane
Concen: 1155.151 ug/l
RT: 9.459 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 88 Resp: 2771

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 0.0 | 20.6 | 30.8 |
| 58 | 70.8 | 60.4 | 90.6 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

**Manual Integrations**
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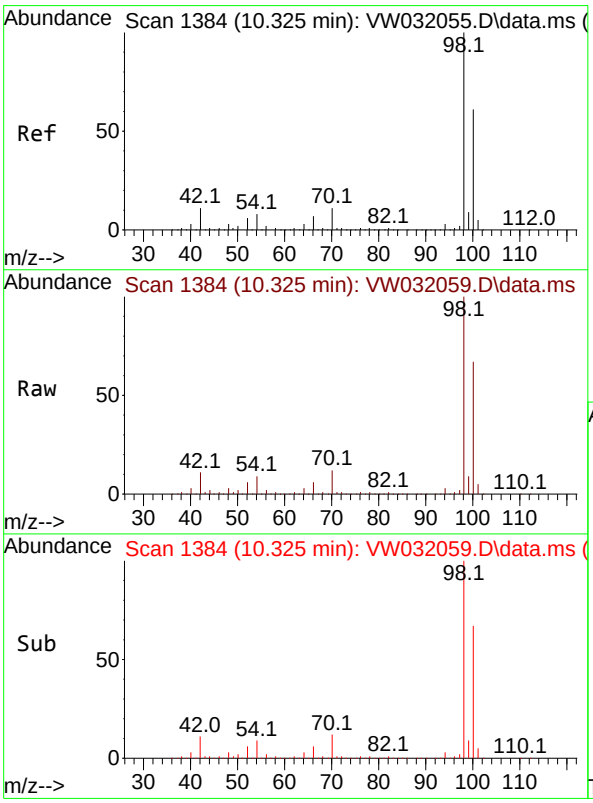
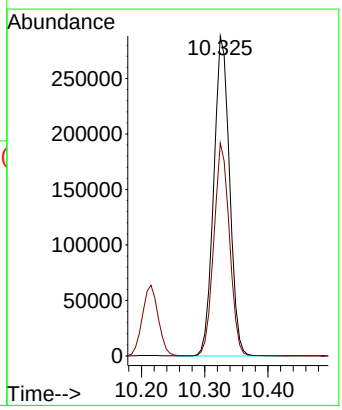
Supervised By :Semsettin Yesilyurt 08/12/2025

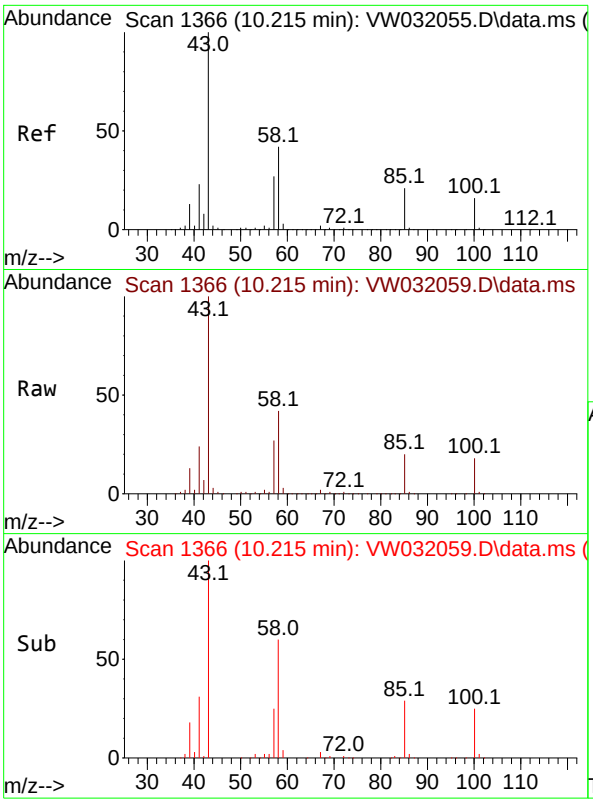



#50
Toluene-d8
Concen: 49.708 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 98 Resp: 499377

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.9 | 51.1 | 76.7 |

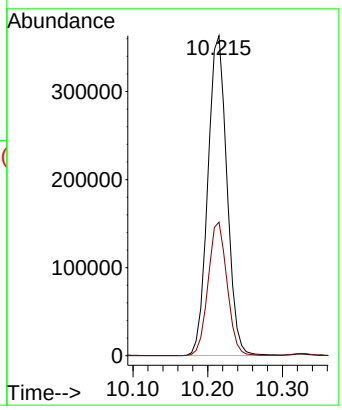





#51
4-Methyl-2-Pentanone
Concen: 275.585 ug/l
RT: 10.215 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 43 Resp: 64539

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 41.5 | 33.1 | 49.7 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

**Manual Integrations**
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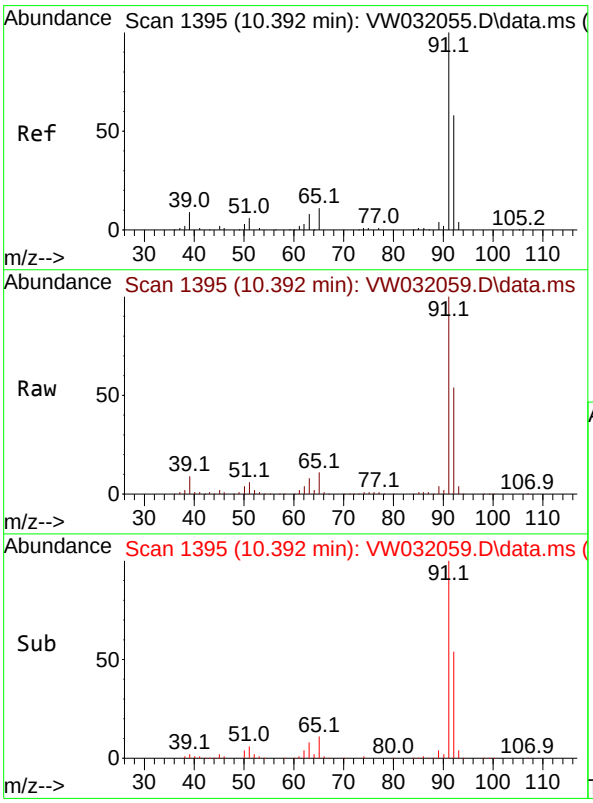
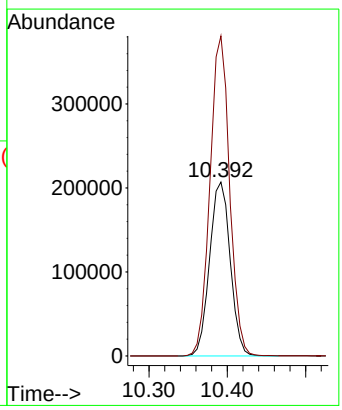
Supervised By :Semsettin Yesilyurt 08/12/2025

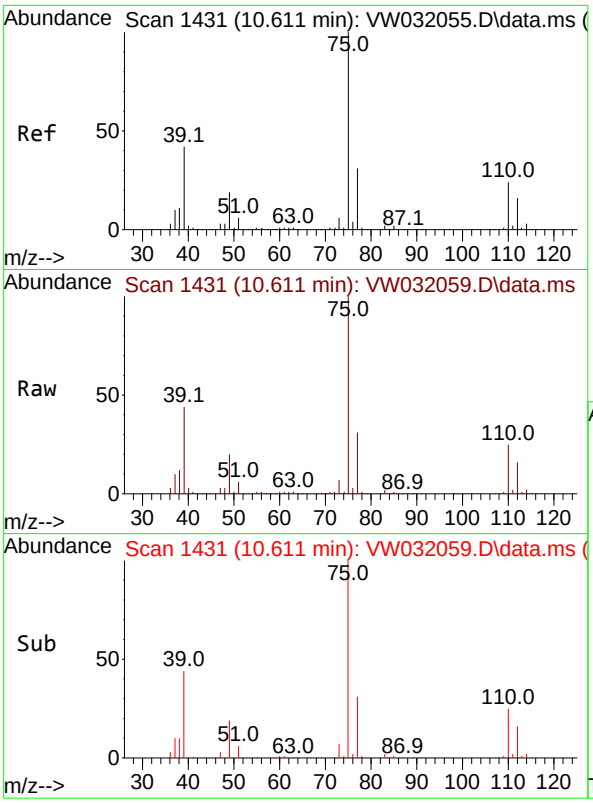



#52
Toluene
Concen: 50.410 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 92 Resp: 377919

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 175.7 | 136.3 | 204.5 |

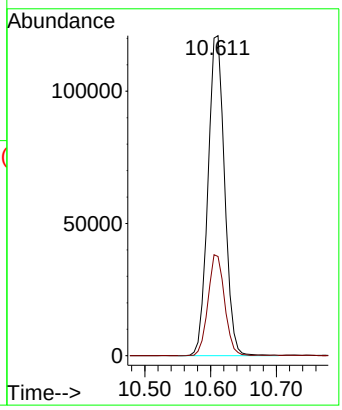





#53
t-1,3-Dichloropropene
Concen: 53.108 ug/l
RT: 10.611 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 75 Resp: 21277

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.0 | 25.0 | 37.6 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

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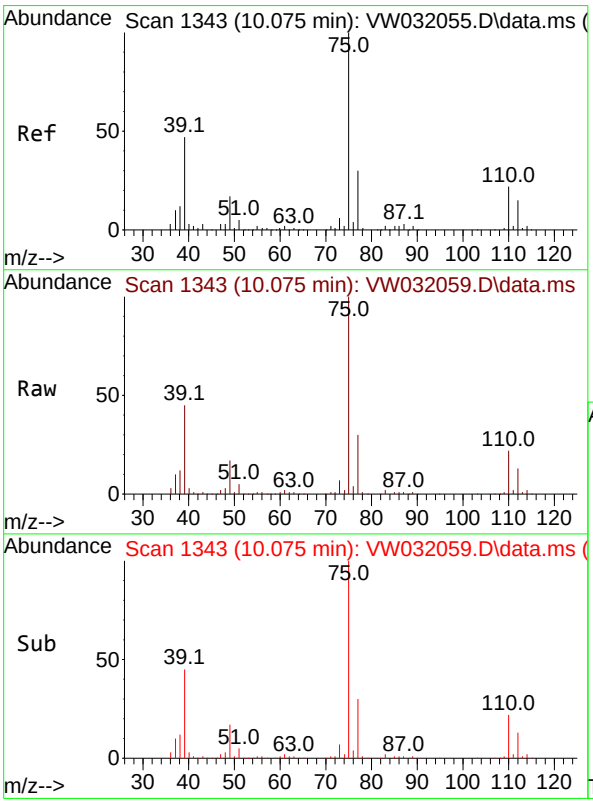
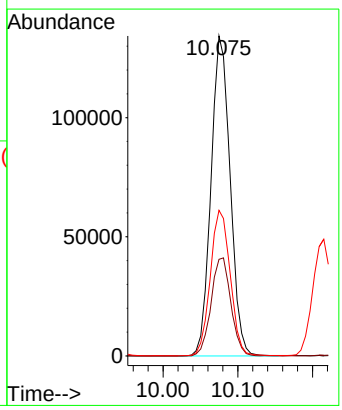
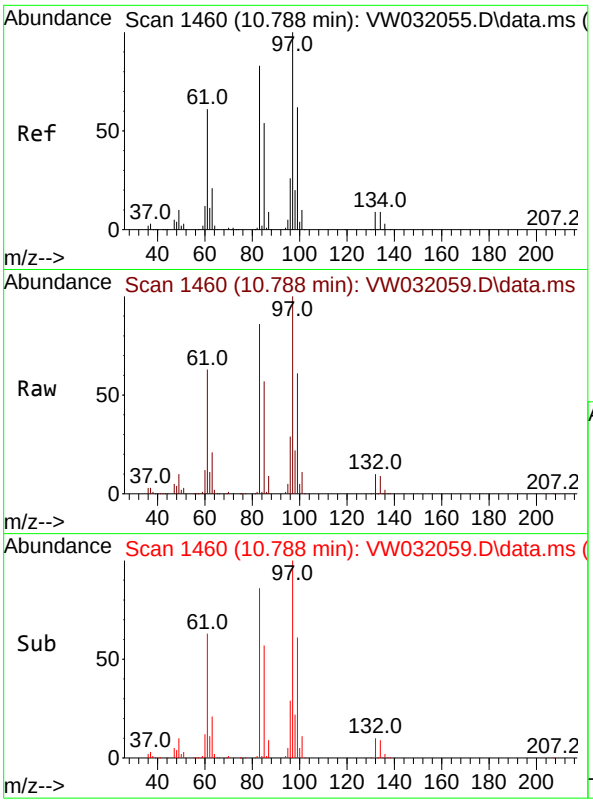



#54
cis-1,3-Dichloropropene
Concen: 52.577 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 75 Resp: 238970

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.2 | 24.0 | 36.0 |
| 39 | 45.4 | 37.8 | 56.8 |

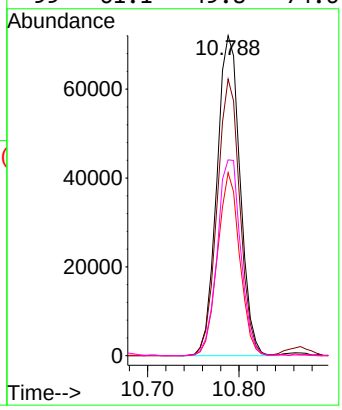





#55
1,1,2-Trichloroethane
Concen: 51.716 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 97 Resp: 12753

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 86.4 | 66.4 | 99.6 |
| 85 | 57.2 | 43.1 | 64.7 |
| 99 | 61.1 | 49.8 | 74.6 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

**Manual Integrations APPROVED**

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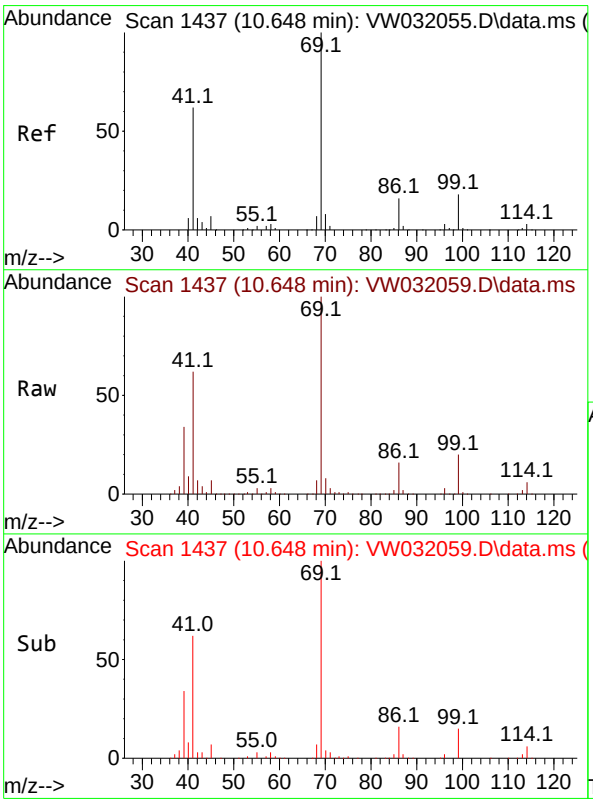
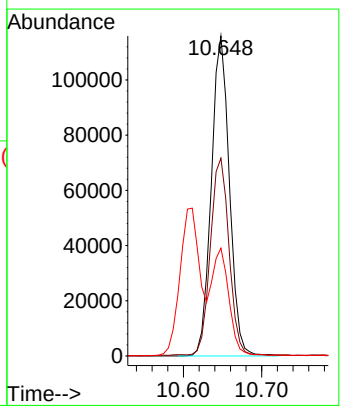
Supervised By :Semsettin Yesilyurt 08/12/2025

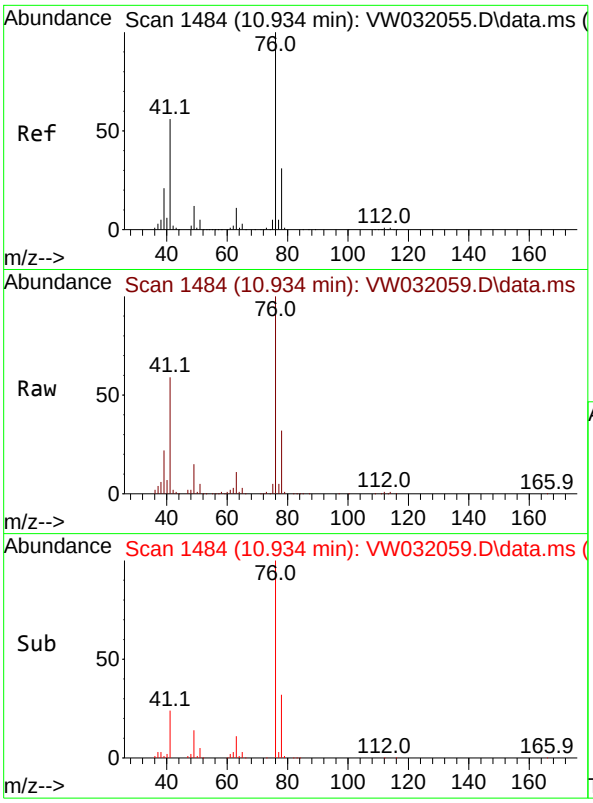



#56
Ethyl methacrylate
Concen: 56.374 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 69 Resp: 186039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 64.4 | 51.2 | 76.8 |
| 39 | 31.4 | 25.4 | 38.0 |

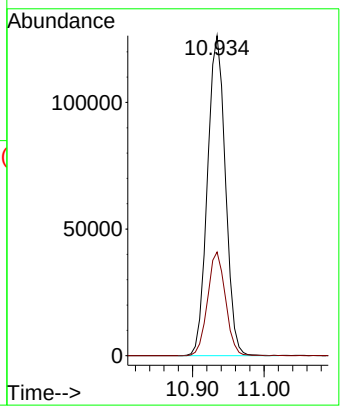





#57
1,3-Dichloropropane
Concen: 51.186 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 76 Resp: 22002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.3 | 25.8 | 38.6 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

**Manual Integrations**
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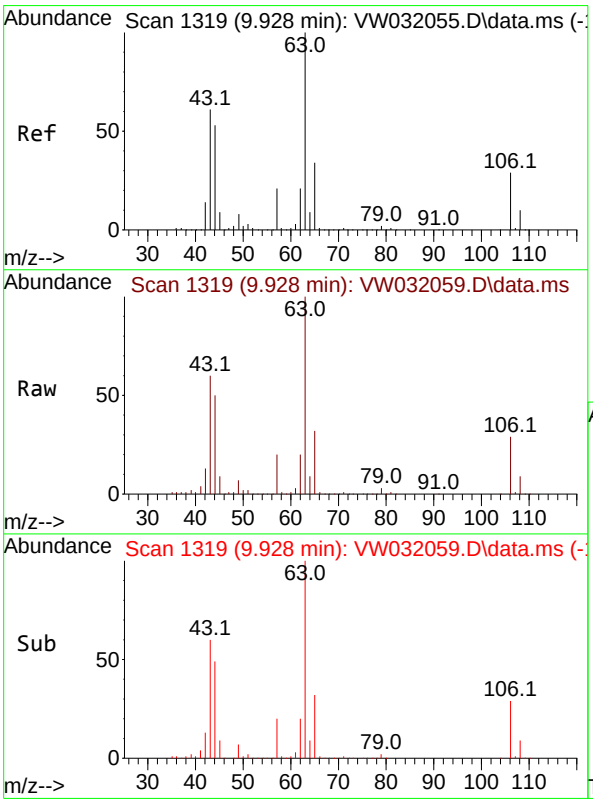
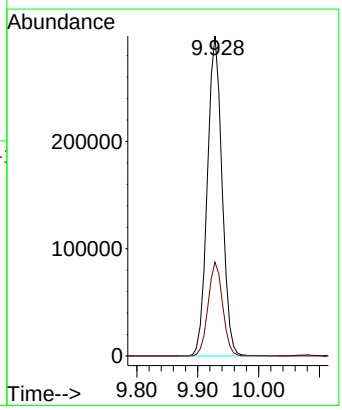
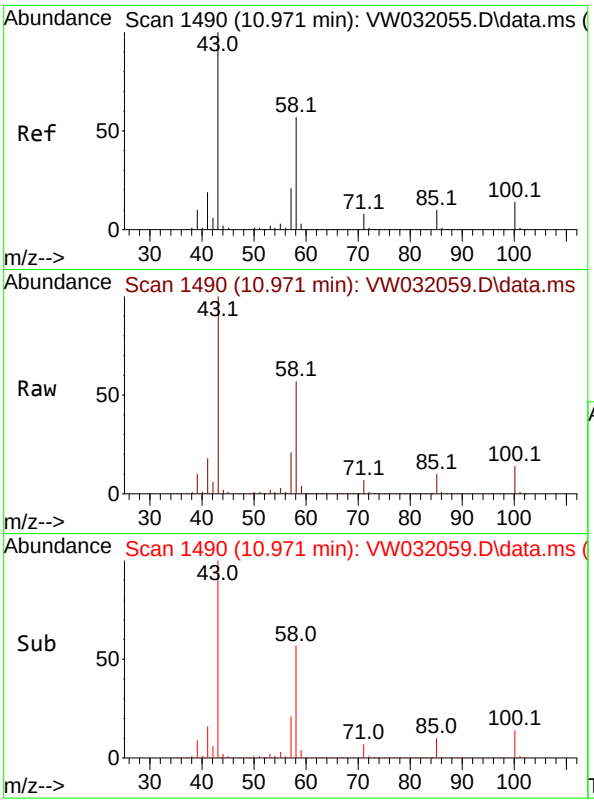



#58
2-Chloroethyl Vinyl ether
Concen: 272.893 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 63 Resp: 498131

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 29.0 | 23.5 | 35.3 |

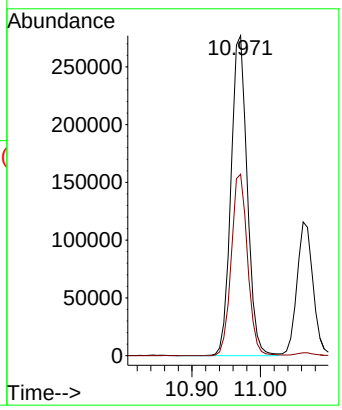





#59
2-Hexanone
Concen: 281.817 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 43 Resp: 45708

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 56.8 | 28.3 | 85.0 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

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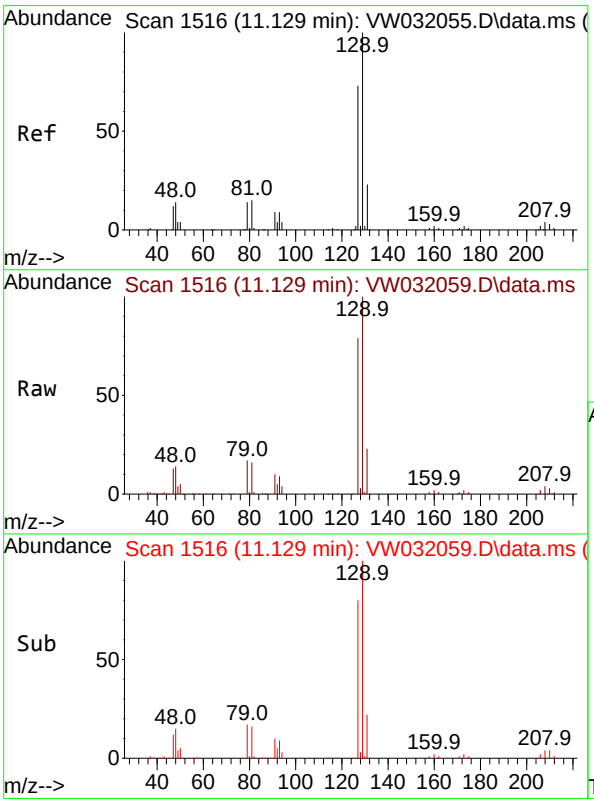
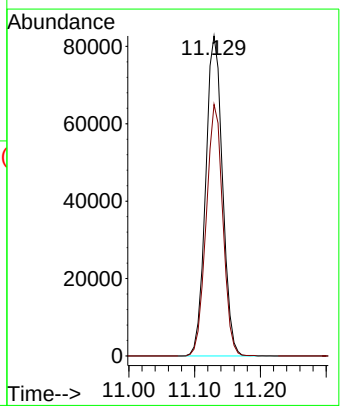
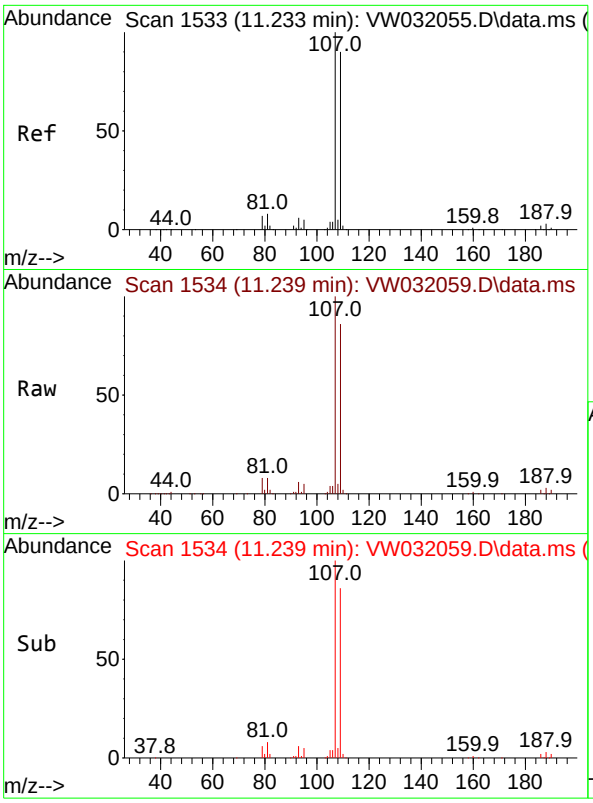



#60
Dibromochloromethane
Concen: 52.276 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:129 Resp: 147264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.5 | 39.0 | 116.9 |

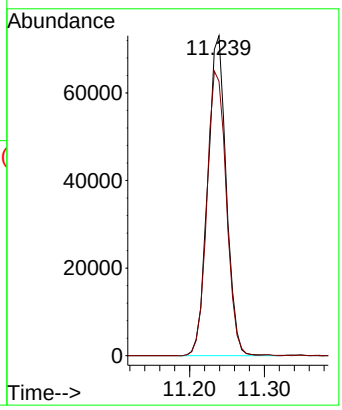





#61
1,2-Dibromoethane
Concen: 52.603 ug/l
RT: 11.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:107 Resp: 12606

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.2 | 74.2 | 111.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

**Manual Integrations APPROVED**

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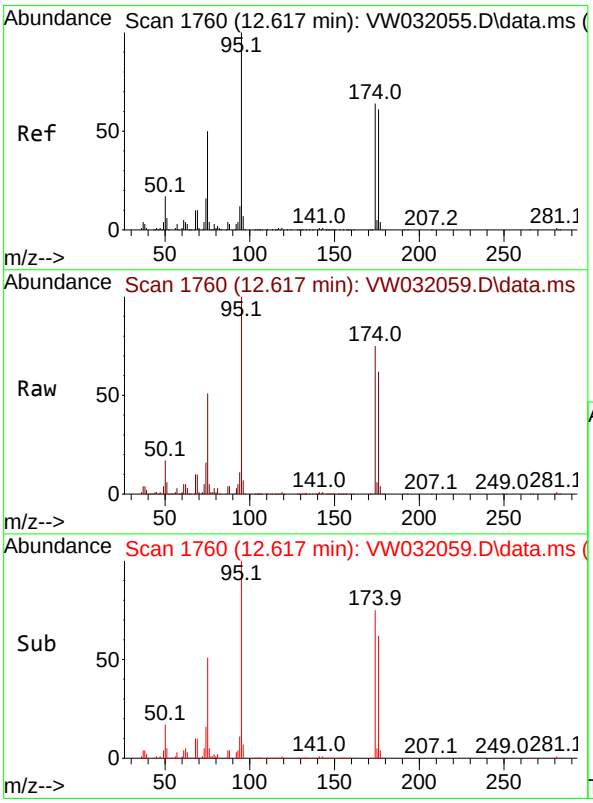
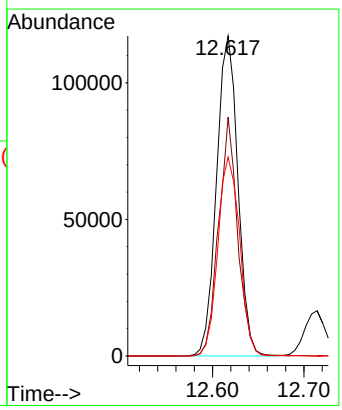
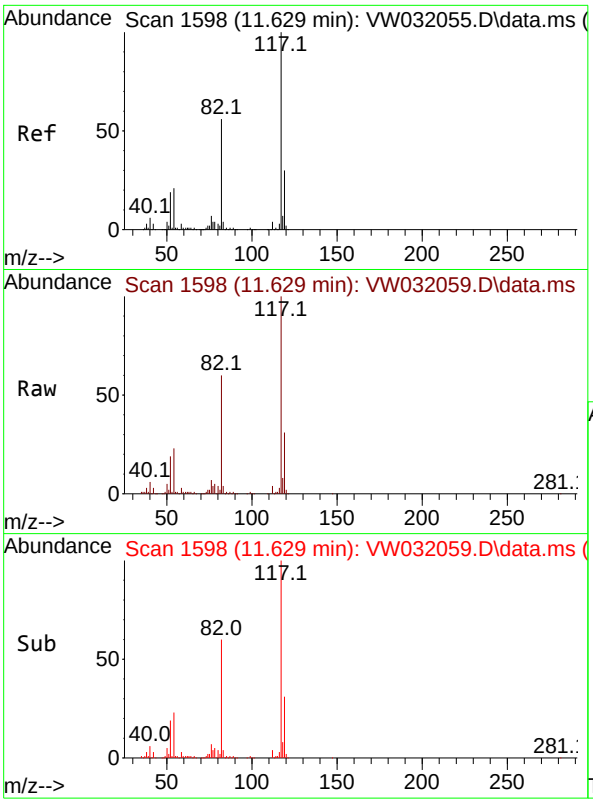



#62
4-Bromofluorobenzene
Concen: 51.460 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 95 Resp: 190514

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 66.7 | 0.0 | 129.0 |
| 176 | 63.5 | 0.0 | 124.6 |

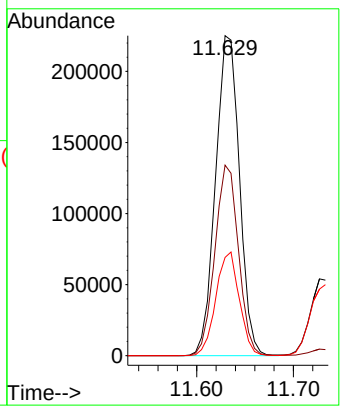





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:117 Resp: 38685

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 59.5 | 45.0 | 67.4 |
| 119 | 30.7 | 24.2 | 36.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

**Manual Integrations**
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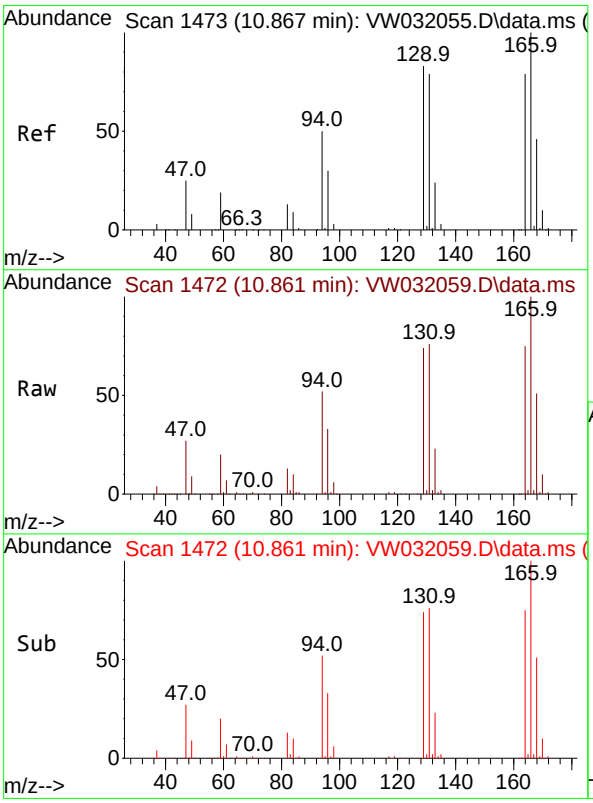
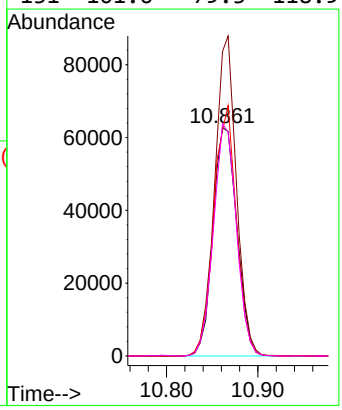
Supervised By :Semsettin Yesilyurt 08/12/2025

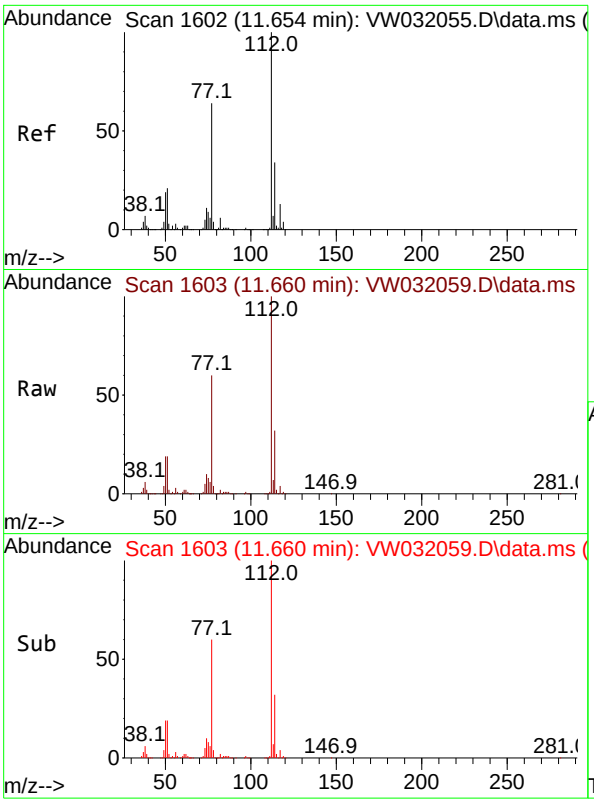



#64
Tetrachloroethene
Concen: 51.245 ug/l
RT: 10.861 min Scan# 1472
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:164 Resp: 114507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 133.3 | 100.9 | 151.3 |
| 129 | 98.7 | 83.6 | 125.4 |
| 131 | 101.6 | 79.3 | 118.9 |

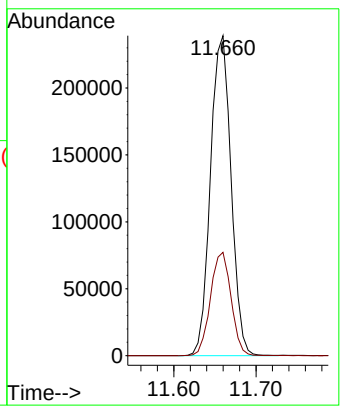





#65
Chlorobenzene
Concen: 49.461 ug/l
RT: 11.660 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:112 Resp: 41648

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.3 | 26.9 | 40.3 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

**Manual Integrations**
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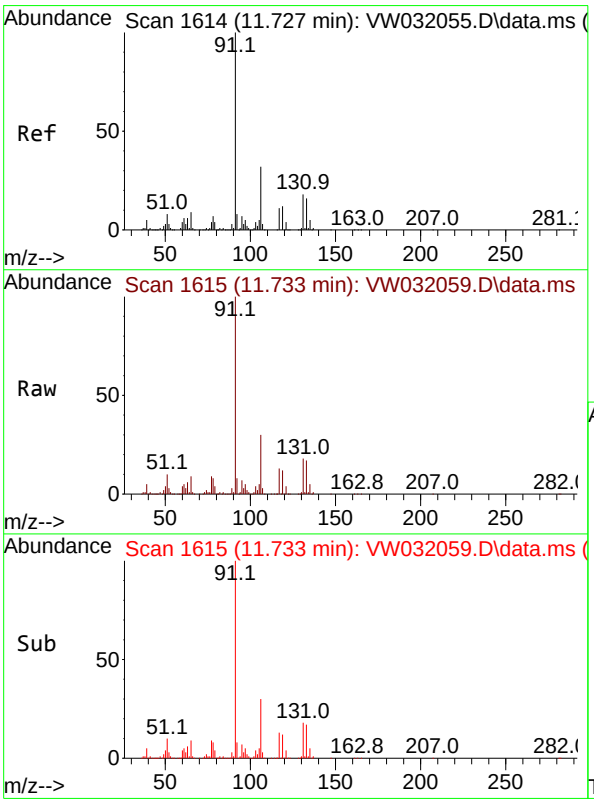
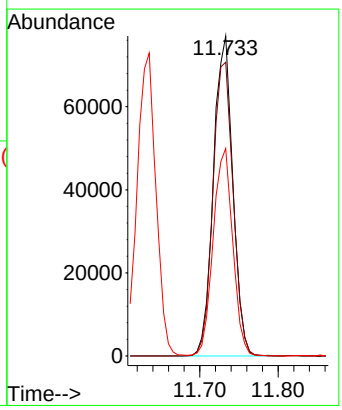
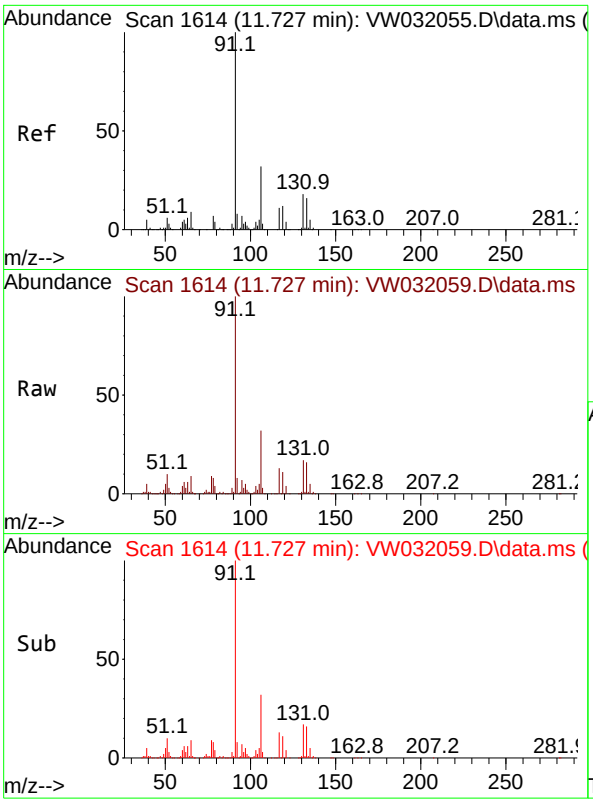



#66
1,1,1,2-Tetrachloroethane
Concen: 50.324 ug/l
RT: 11.733 min Scan# 1615
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:131 Resp: 132212

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.8 | 47.3 | 142.0 |
| 119 | 65.7 | 34.5 | 103.5 |

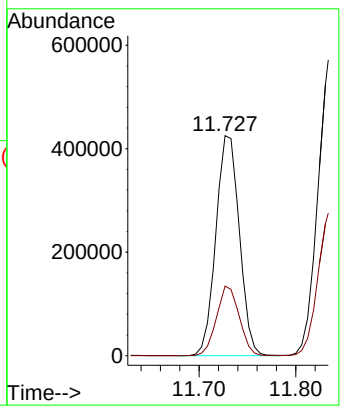





#67
Ethyl Benzene
Concen: 50.253 ug/l
RT: 11.727 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 91 Resp: 71675

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.6 | 25.4 | 38.0 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

**Manual Integrations**
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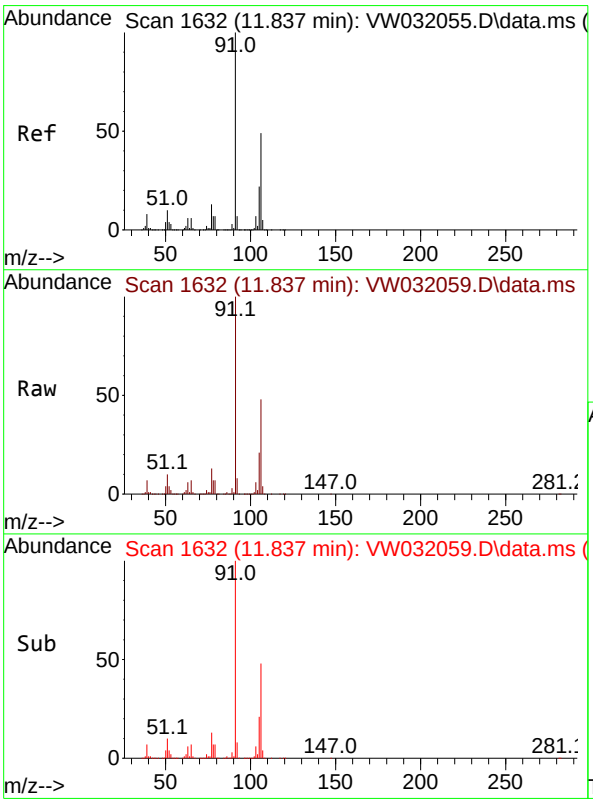
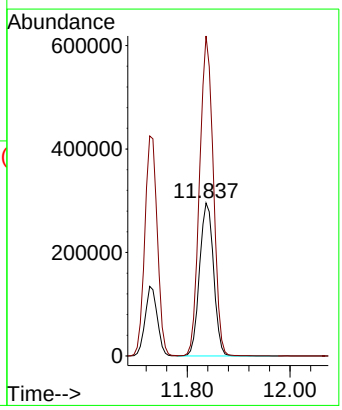
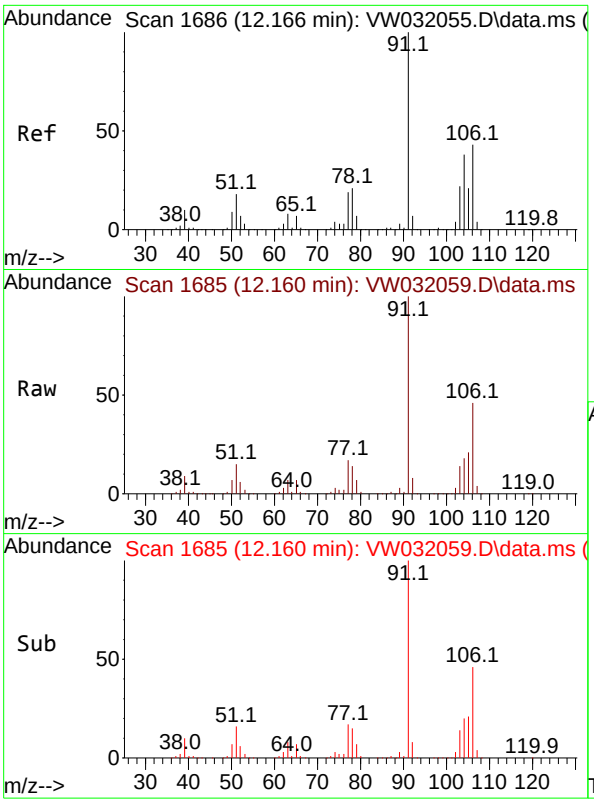



#68
m/p-Xylenes
Concen: 101.607 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:106 Resp: 559216

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 204.9 | 162.2 | 243.2 |

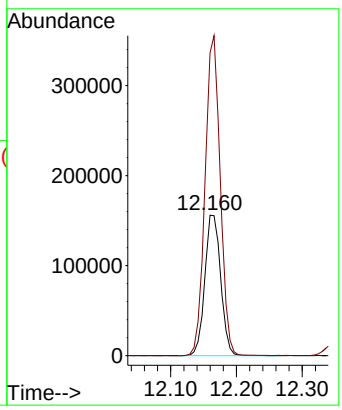





#69
o-Xylene
Concen: 51.416 ug/l
RT: 12.160 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:106 Resp: 26154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 218.6 | 110.8 | 332.3 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

**Manual Integrations**
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Reviewed By :Mahesh Dadoda 08/12/2025
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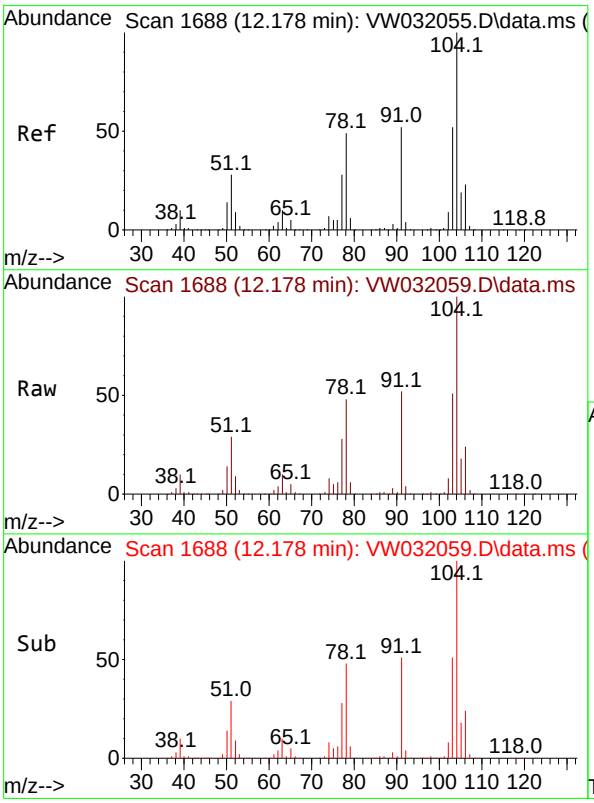
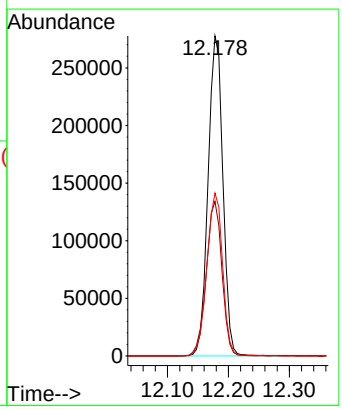
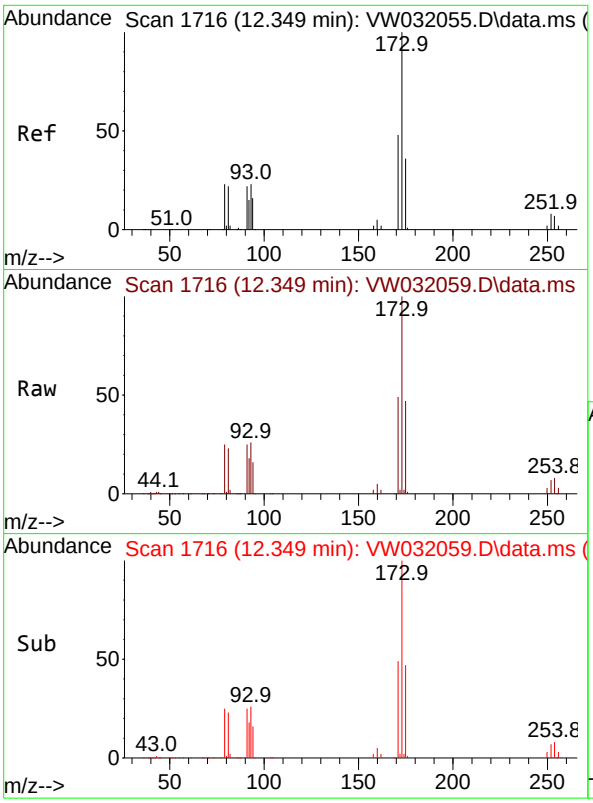



#70
Styrene
Concen: 51.833 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:104 Resp: 468335

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 51.2 | 41.2 | 61.8 |
| 103 | 53.9 | 43.8 | 65.8 |

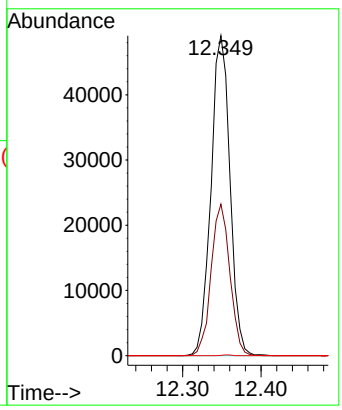





#71
Bromoform
Concen: 54.945 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:173 Resp: 8257

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 46.9 | 22.9 | 68.7 |
| 254 | 0.1 | 0.0 | 0.0# |




**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

**Manual Integrations**
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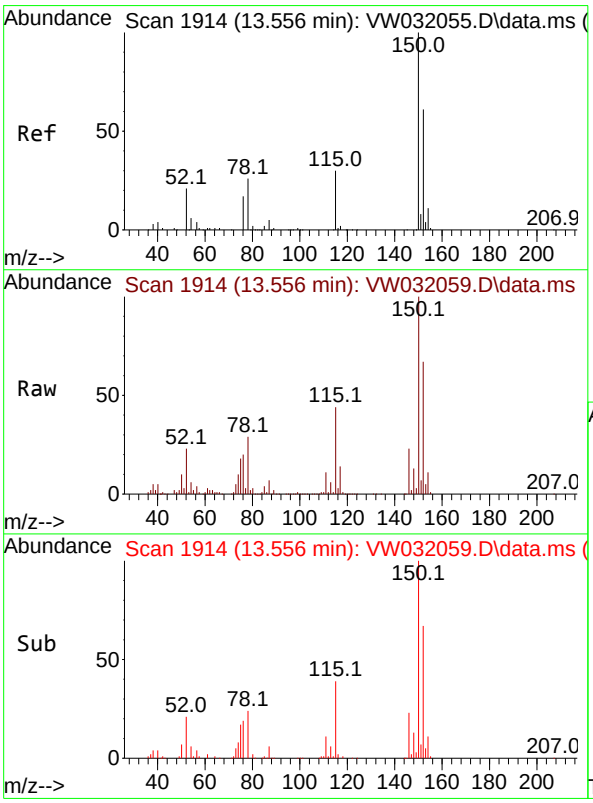
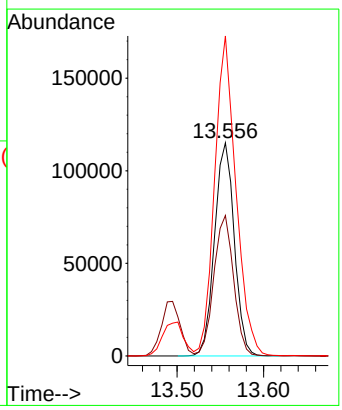
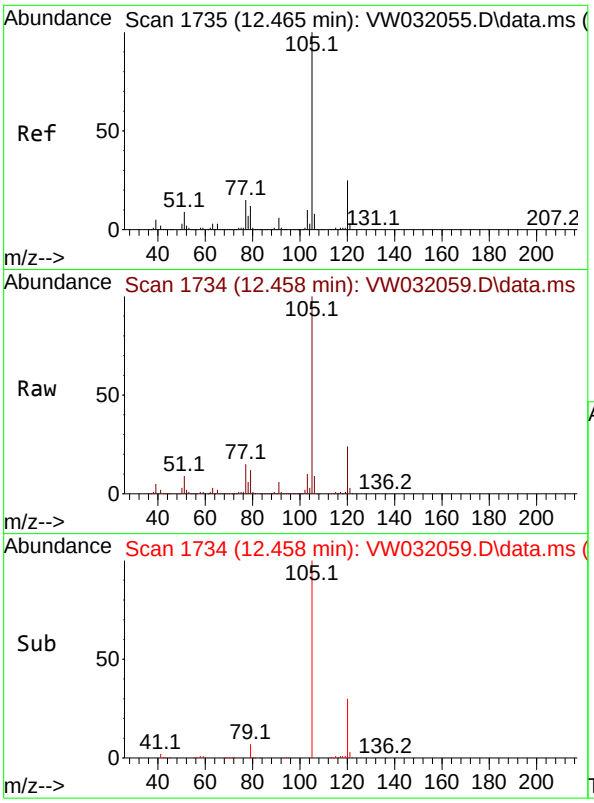



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:152 Resp: 182577

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 65.8 | 32.6 | 97.8 |
| 150 | 162.0 | 0.0 | 359.4 |

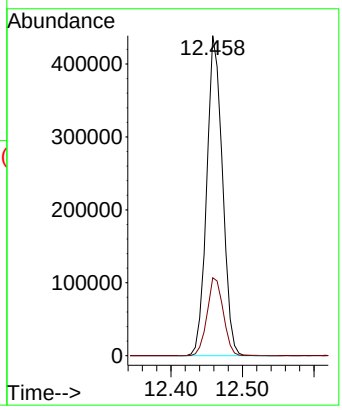





#73
Isopropylbenzene
Concen: 52.571 ug/l
RT: 12.458 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:105 Resp: 67077

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.0 | 12.8 | 38.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

**Manual Integrations**
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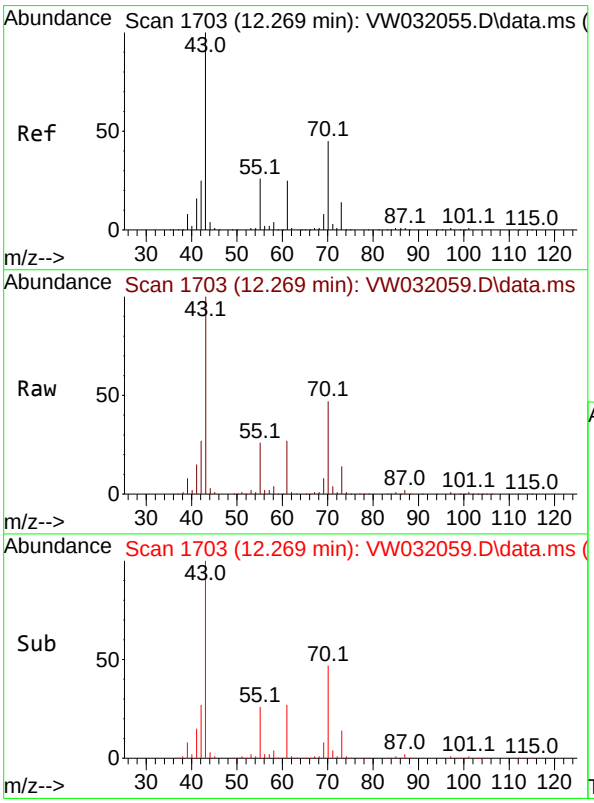
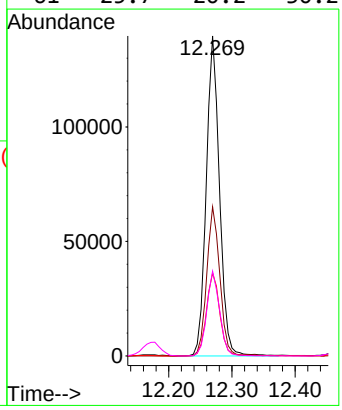
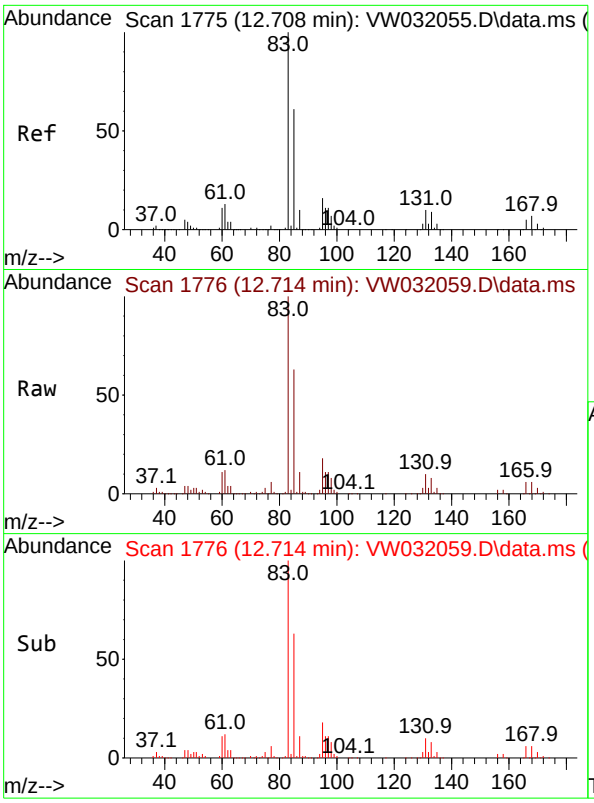



#74
N-amyl acetate
Concen: 55.682 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 43 Resp: 203837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 46.3 | 37.0 | 55.4 |
| 55 | 26.5 | 21.1 | 31.7 |
| 61 | 25.7 | 20.2 | 30.2 |

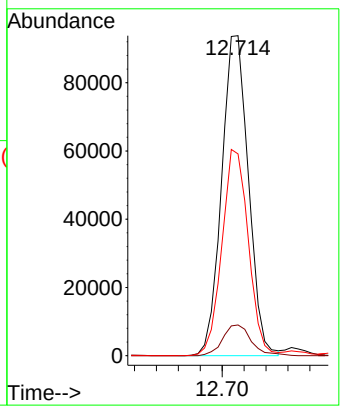





#75
1,1,2,2-Tetrachloroethane
Concen: 52.514 ug/l
RT: 12.714 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 83 Resp: 15909

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.2 | 5.1 | 15.4 |
| 85 | 63.5 | 32.2 | 96.6 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
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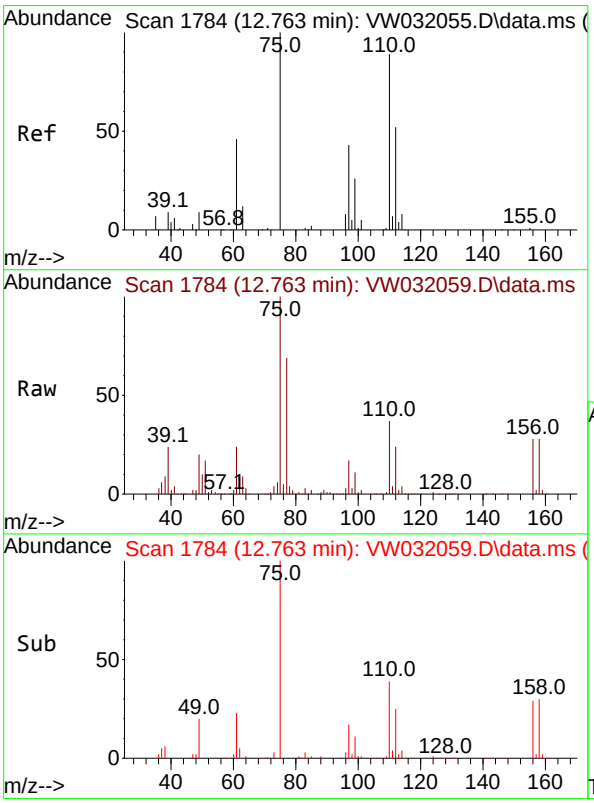
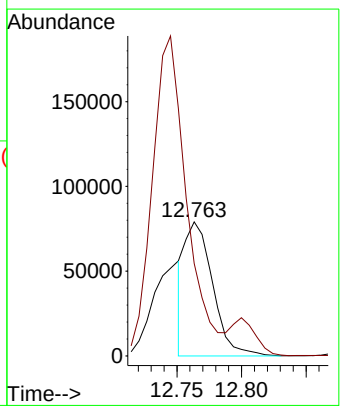
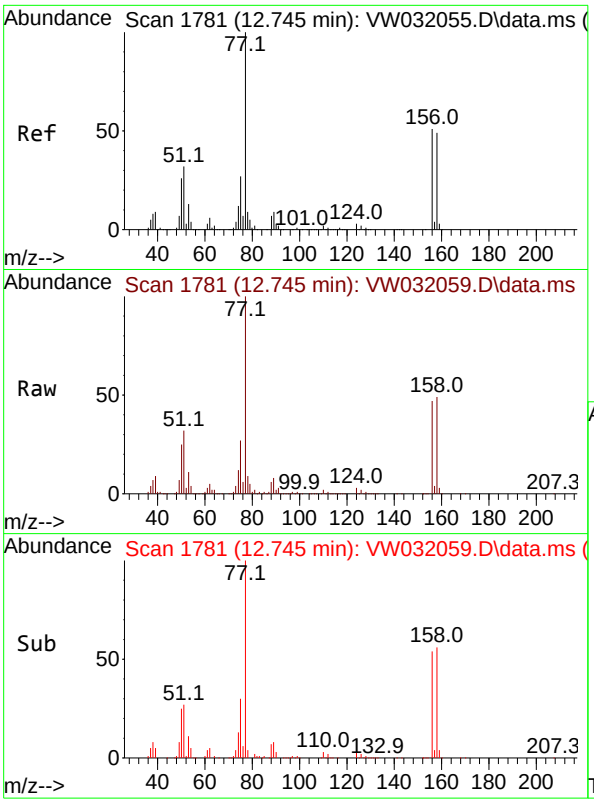



#76
1,2,3-Trichloropropane
Concen: 48.091 ug/l m
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 75 Resp: 119168

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 294.4 | 123.5 | 370.5 |

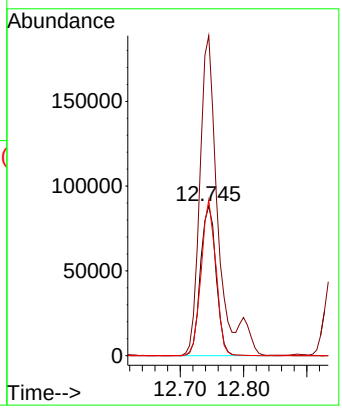





#77
Bromobenzene
Concen: 49.886 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:156 Resp: 15202

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 230.8 | 108.7 | 326.3 |
| 158 | 98.3 | 48.3 | 144.9 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

**Manual Integrations**
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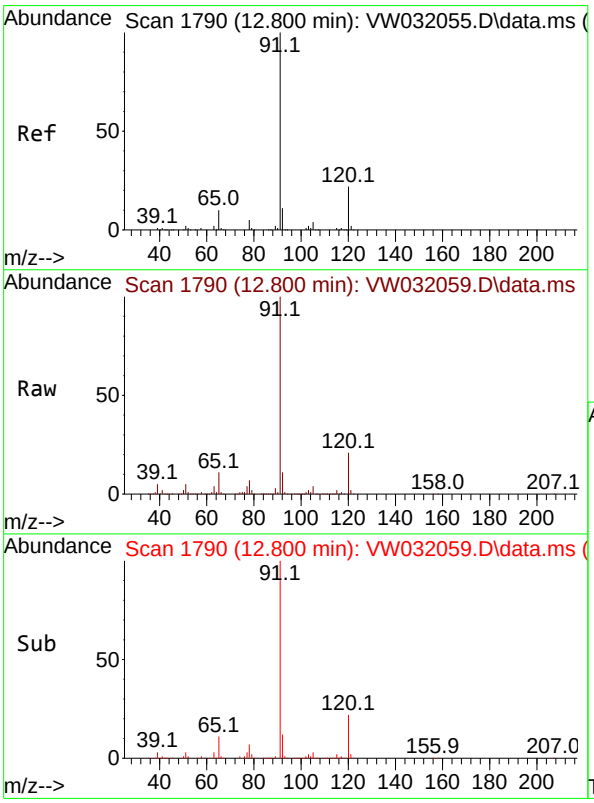
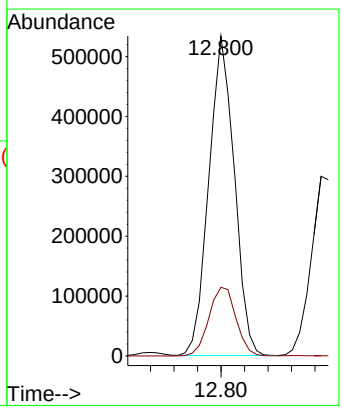
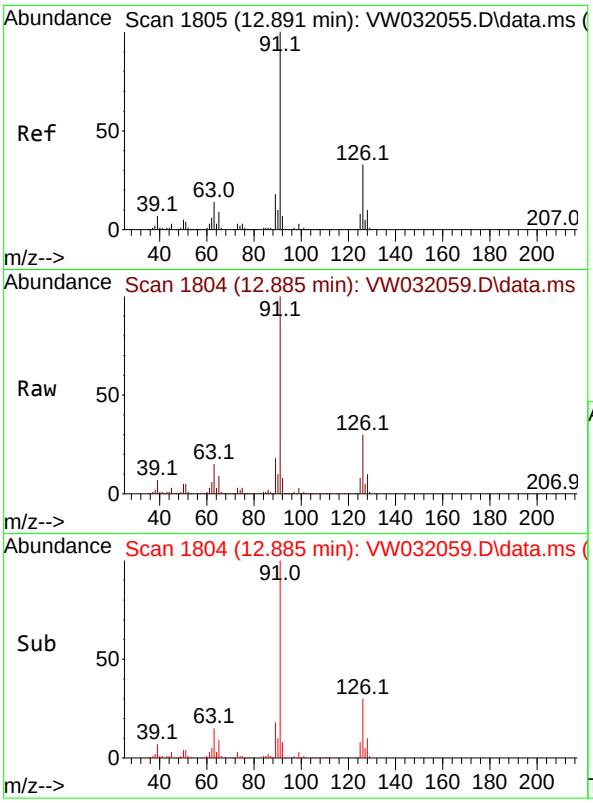



#78
n-propylbenzene
Concen: 51.148 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 91 Resp: 803474

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.9 | 11.1 | 33.3 |

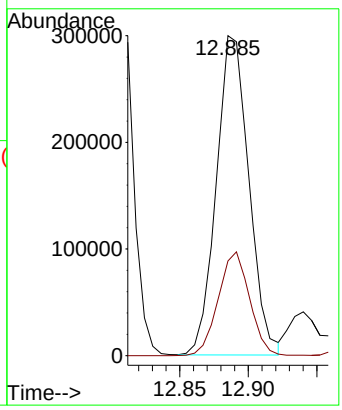





#79
2-Chlorotoluene
Concen: 51.114 ug/l
RT: 12.885 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 91 Resp: 49556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.3 | 15.9 | 47.7 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

**Manual Integrations**
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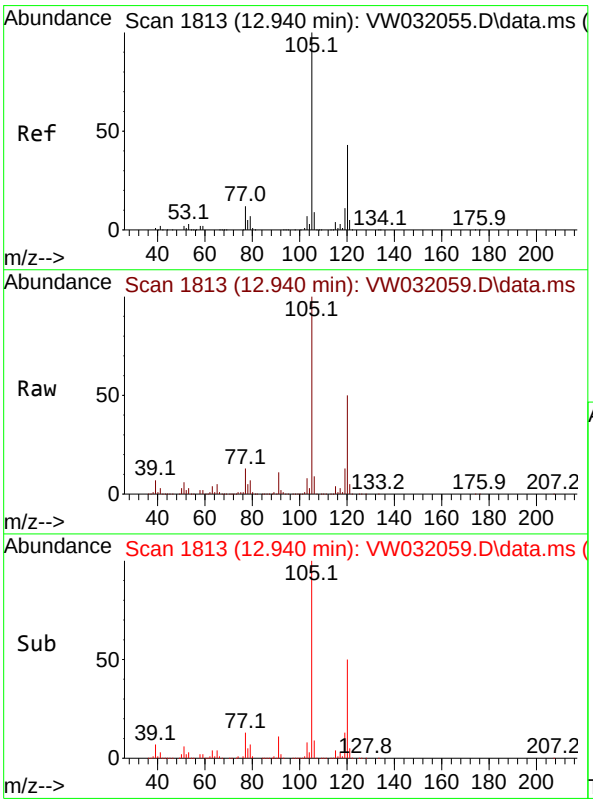
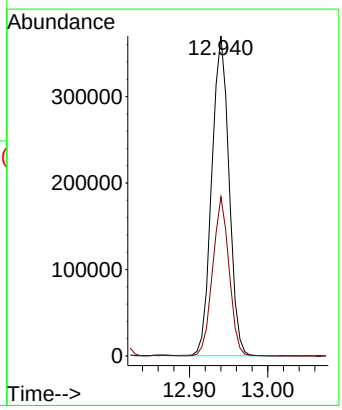
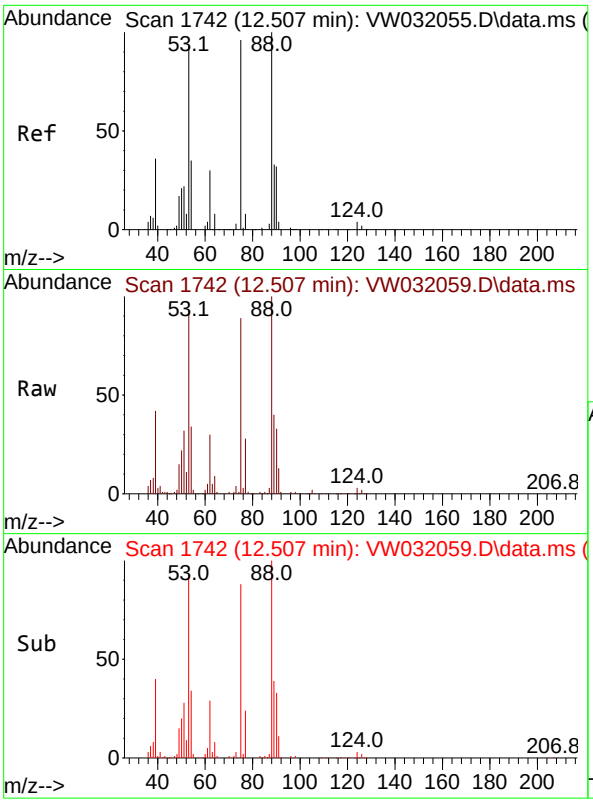



#80
1,3,5-Trimethylbenzene
Concen: 52.291 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:105 Resp: 566437

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.4 | 23.4 | 70.0 |






#81
trans-1,4-Dichloro-2-butene
Concen: 53.570 ug/l
RT: 12.507 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

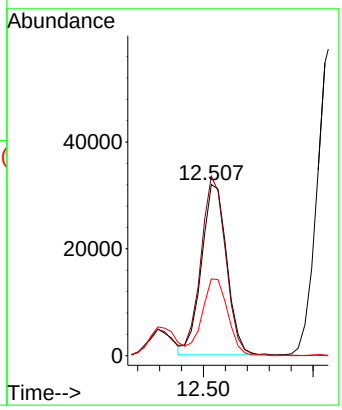
Tgt Ion: 75 Resp: 5127

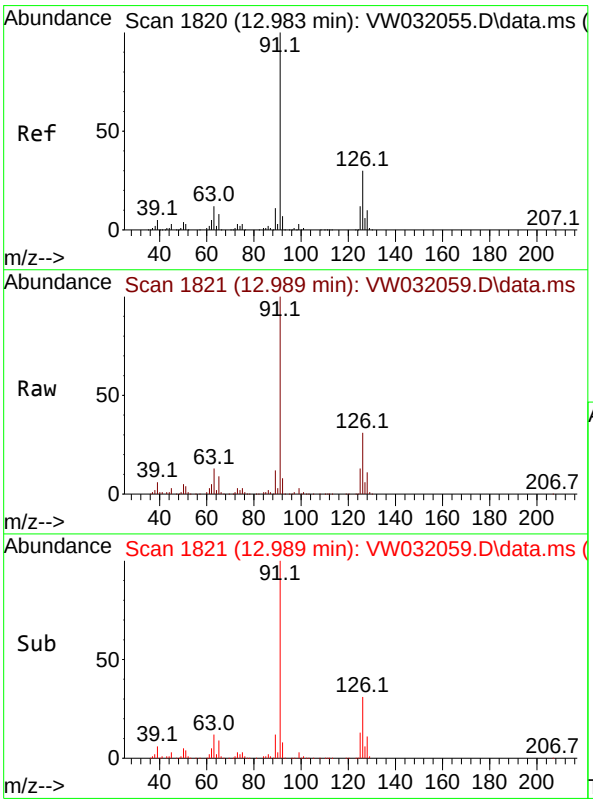
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 104.4 | 81.0 | 121.6 |
| 89 | 45.7 | 37.3 | 55.9 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

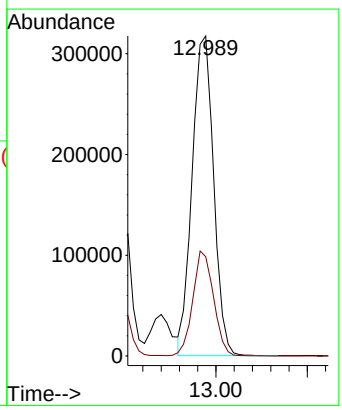


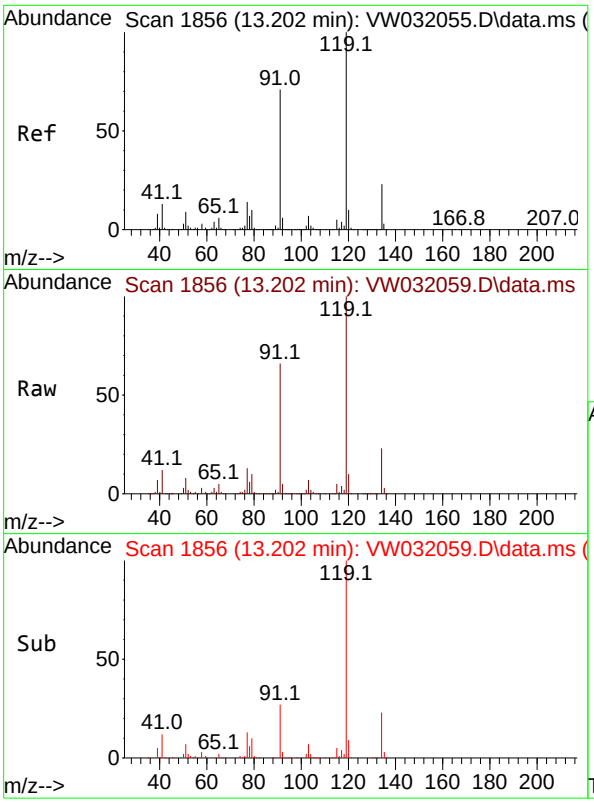




#82
4-Chlorotoluene
Concen: 50.312 ug/l
RT: 12.989 min Scan# 1821
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 91 Resp: 518248

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.7 | 15.5 | 46.5 |






#83
tert-Butylbenzene
Concen: 53.777 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

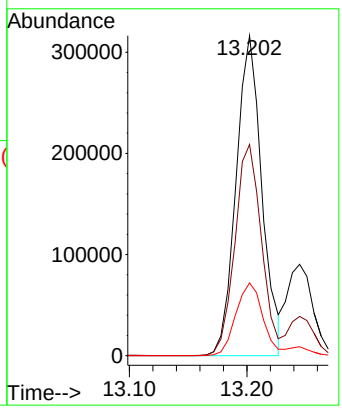
Tgt Ion:119 Resp: 48345

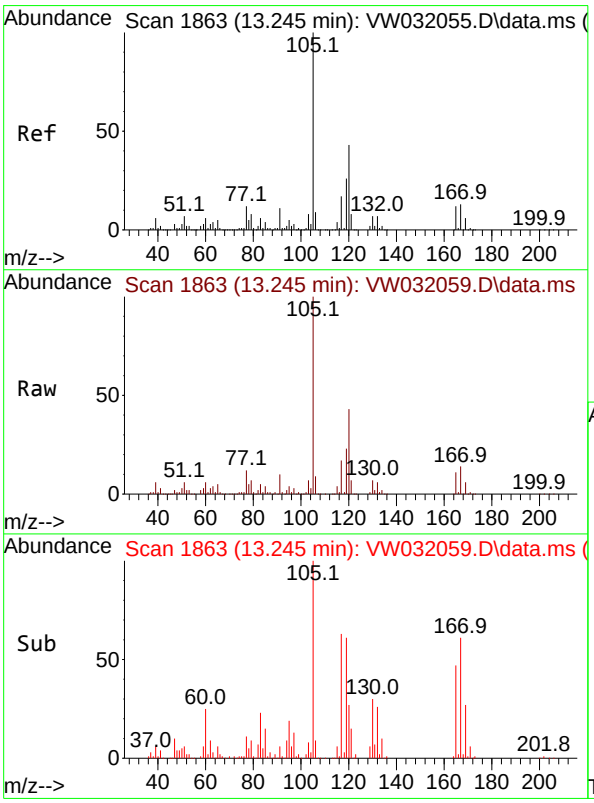
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 67.8 | 35.3 | 105.9 |
| 134 | 23.9 | 12.1 | 36.3 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

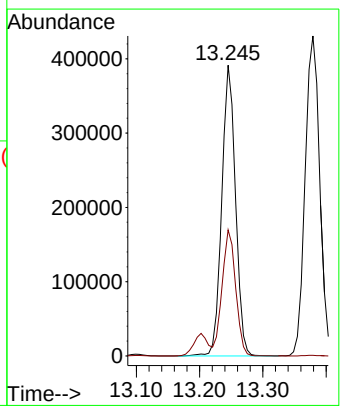


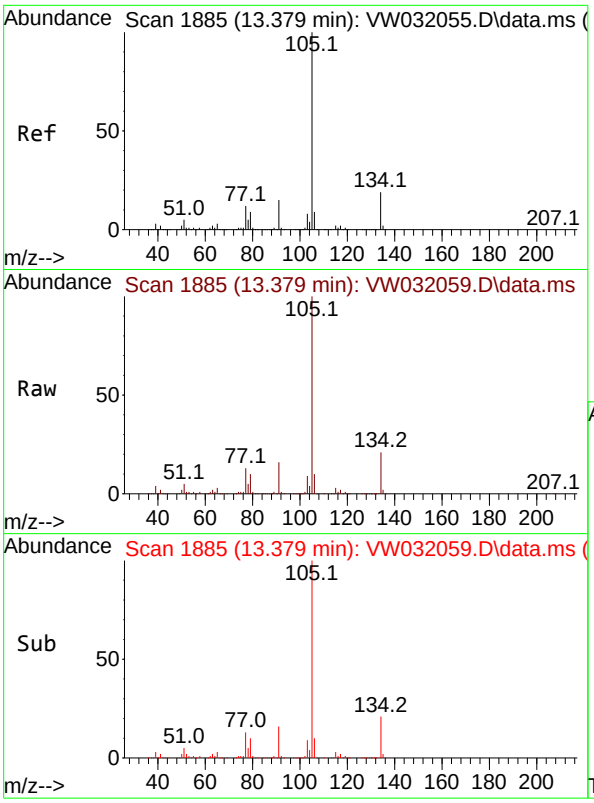




#84
1,2,4-Trimethylbenzene
Concen: 53.308 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:105 Resp: 587831

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 42.8 | 21.6 | 64.8 |

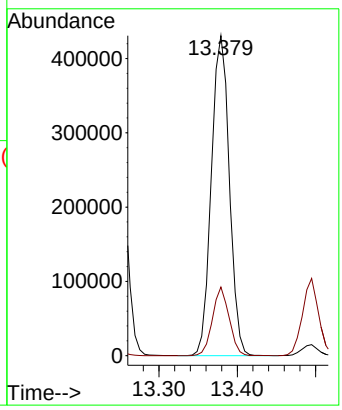





#85
sec-Butylbenzene
Concen: 50.571 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:105 Resp: 68736

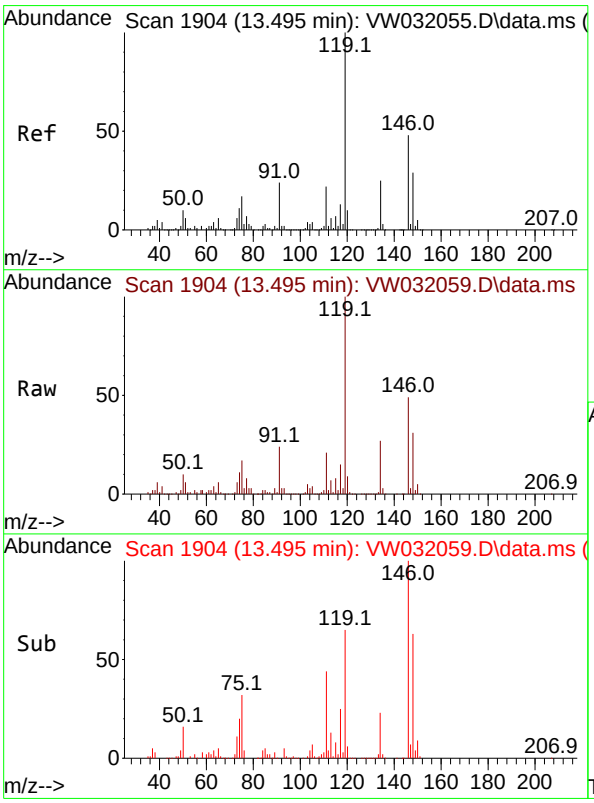
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.8 | 9.9 | 29.7 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

**Manual Integrations APPROVED**

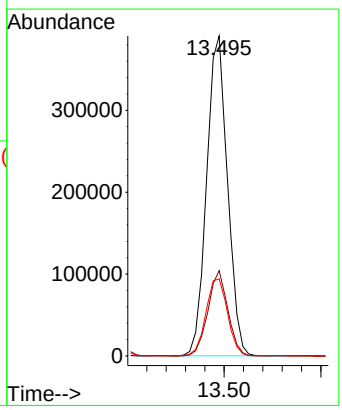
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

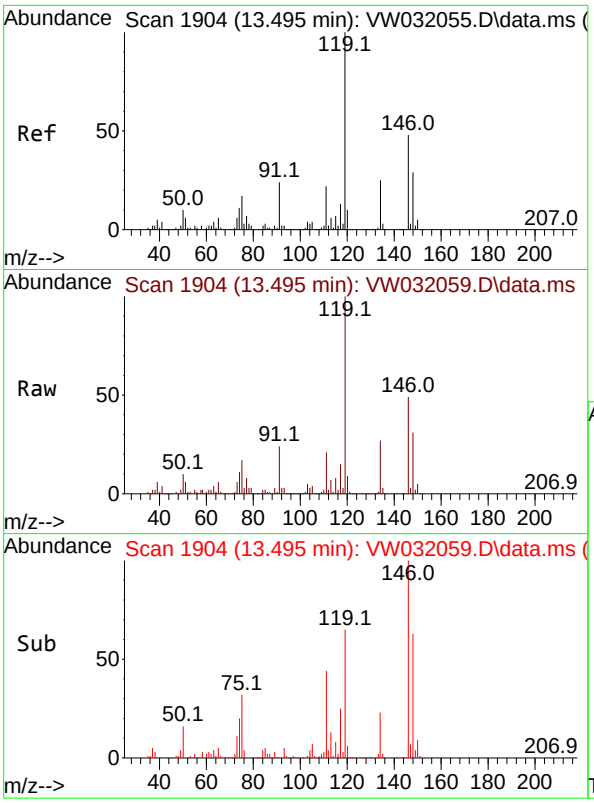



#86
p-Isopropyltoluene
Concen: 51.580 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:119 Resp: 584473

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.5 | 12.4 | 37.0 |
| 91 | 24.9 | 12.1 | 36.3 |

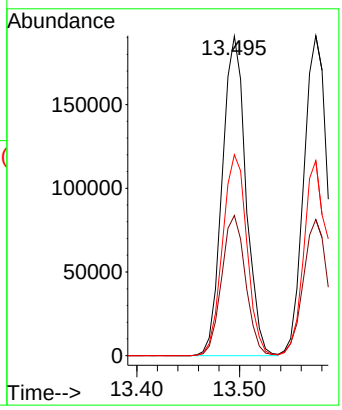





#87
1,3-Dichlorobenzene
Concen: 50.304 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:146 Resp: 30504

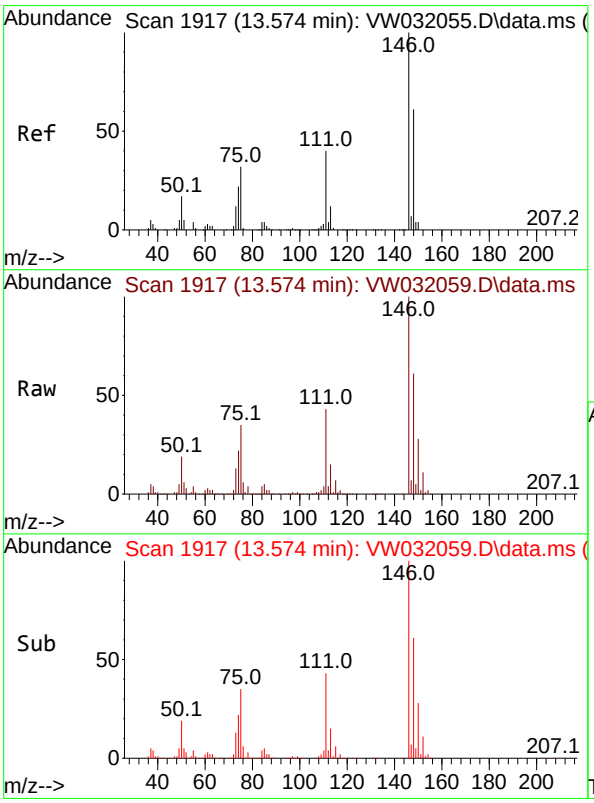
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.3 | 21.2 | 63.6 |
| 148 | 64.8 | 30.3 | 90.8 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

**Manual Integrations APPROVED**

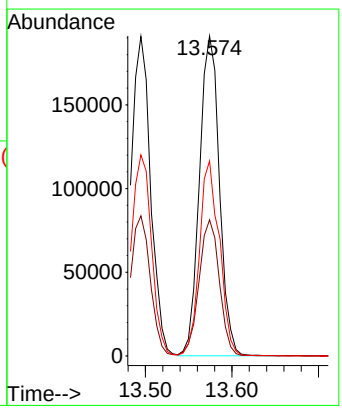
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

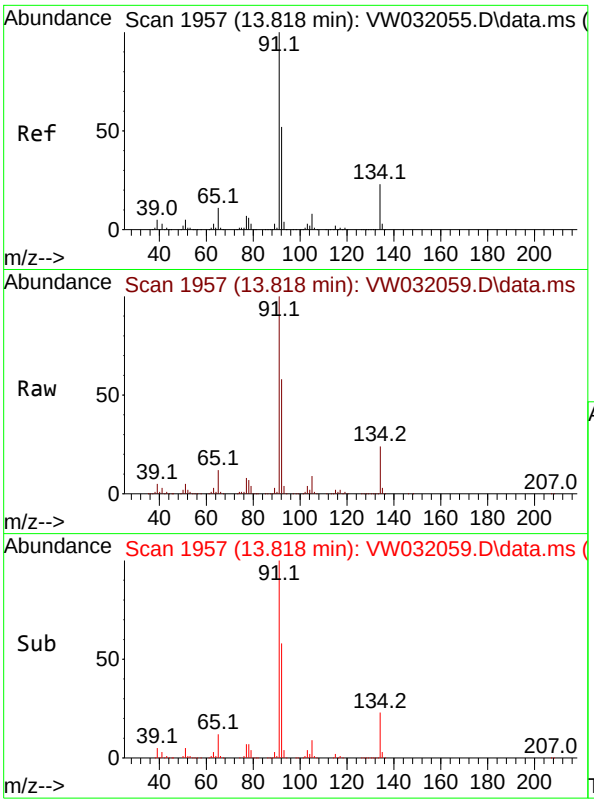



#88
1,4-Dichlorobenzene
Concen: 49.942 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:146 Resp: 306047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.7 | 21.6 | 64.6 |
| 148 | 60.9 | 32.0 | 96.2 |

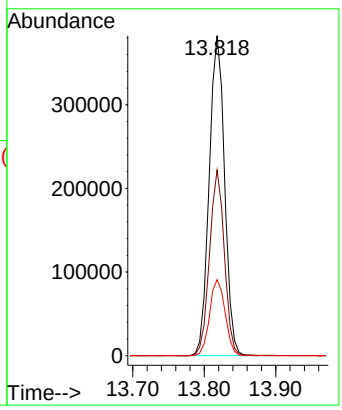





#89
n-Butylbenzene
Concen: 51.958 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 91 Resp: 57197

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 55.7 | 26.7 | 80.1 |
| 134 | 23.9 | 12.0 | 36.1 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
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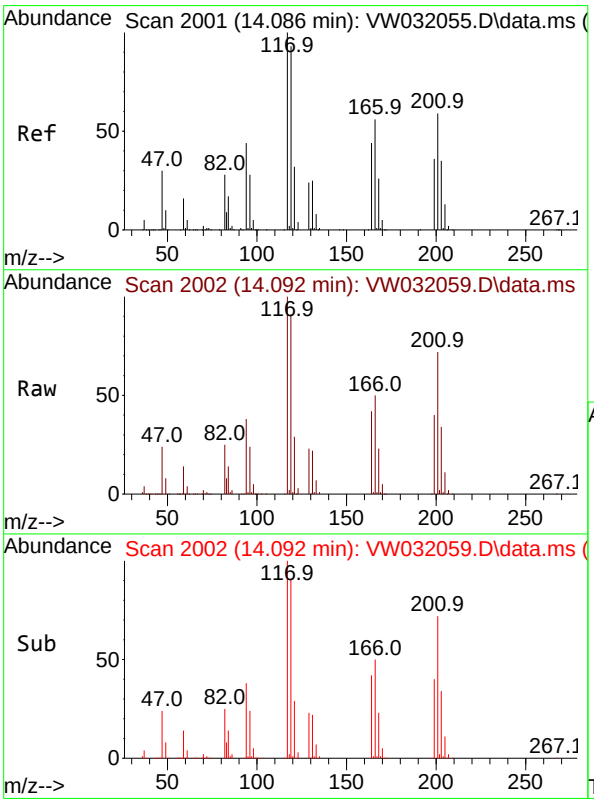
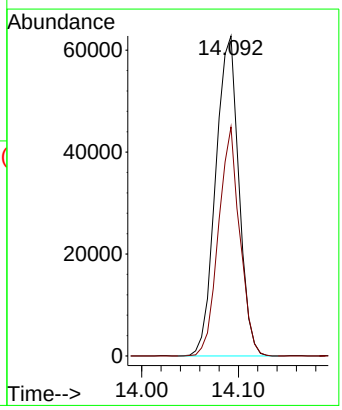
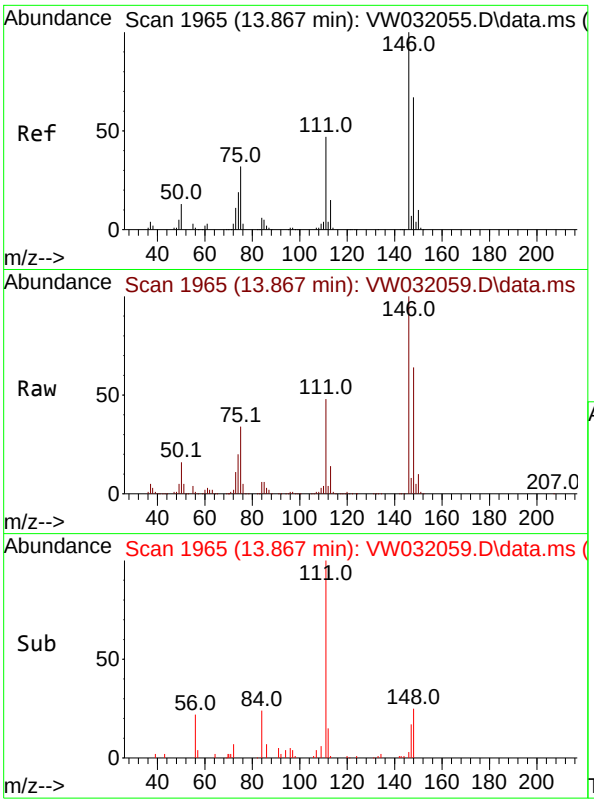



#90
Hexachloroethane
Concen: 50.329 ug/l
RT: 14.092 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:117 Resp: 104295

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 65.9 | 30.9 | 92.5 |

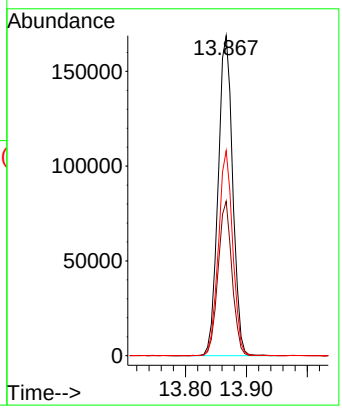





#91
1,2-Dichlorobenzene
Concen: 50.926 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:146 Resp: 27974

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 46.4 | 23.1 | 69.3 |
| 148 | 63.0 | 32.9 | 98.6 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
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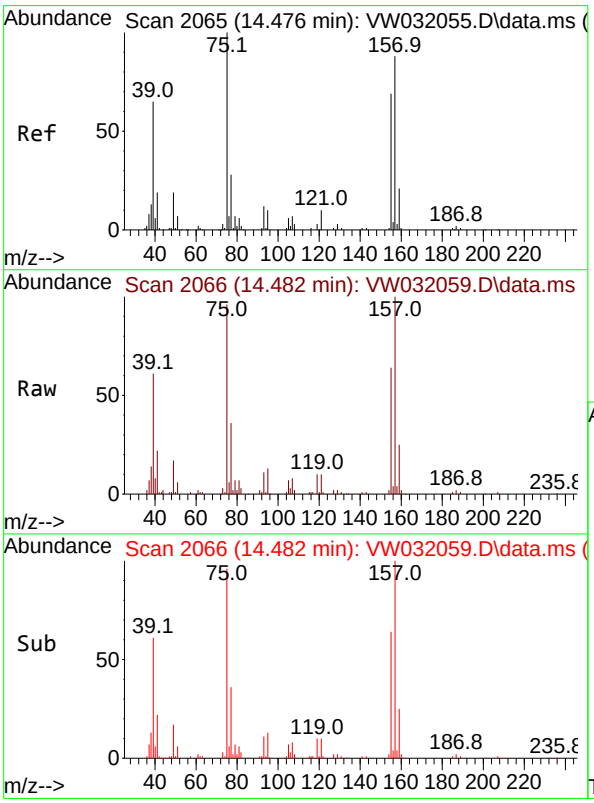
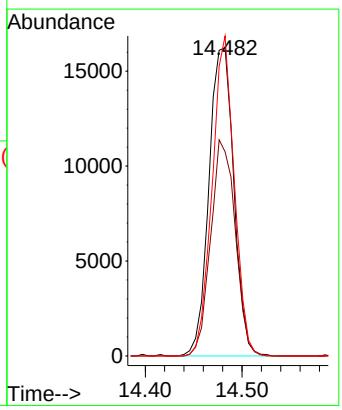
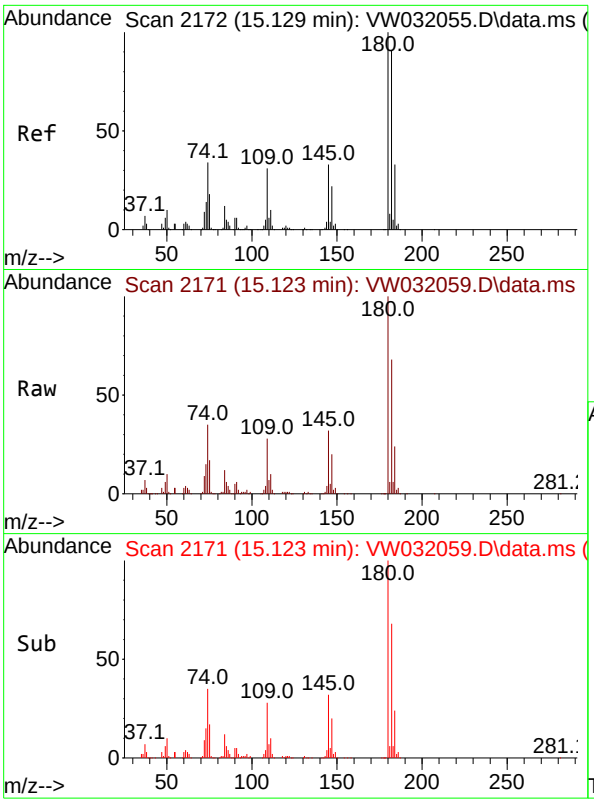



#92
1,2-Dibromo-3-Chloropropane
Concen: 53.872 ug/l
RT: 14.482 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 75 Resp: 29014

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 69.2 | 35.2 | 105.6 |
| 157 | 92.2 | 47.5 | 142.6 |

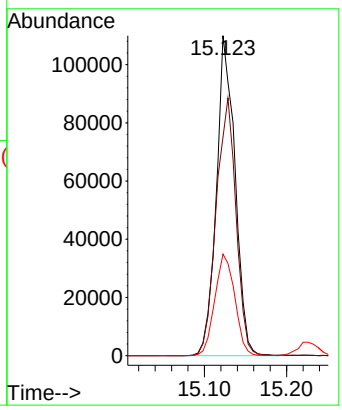





#93
1,2,4-Trichlorobenzene
Concen: 52.764 ug/l
RT: 15.123 min Scan# 2
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:180 Resp: 17338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 85.4 | 49.0 | 147.0 |
| 145 | 34.1 | 17.3 | 51.9 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

**Manual Integrations**
**APPROVED**

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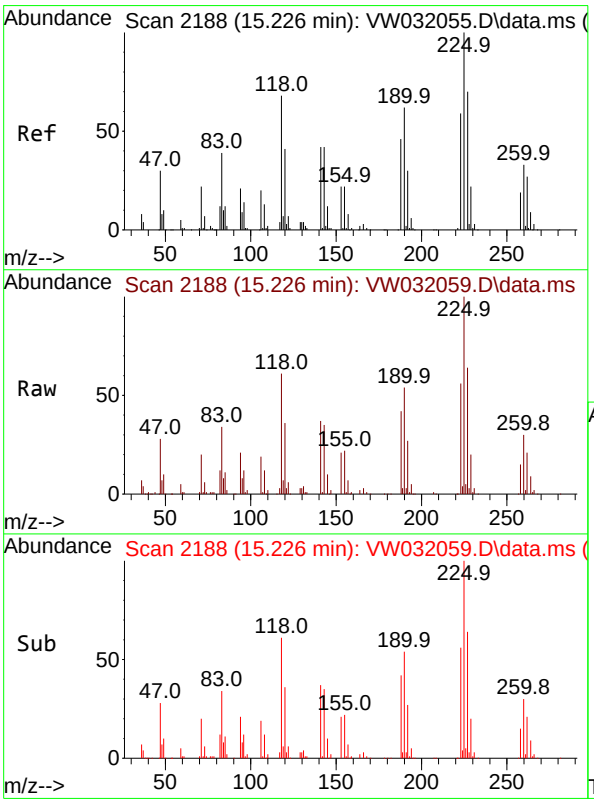
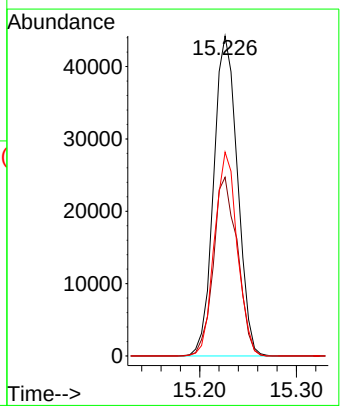
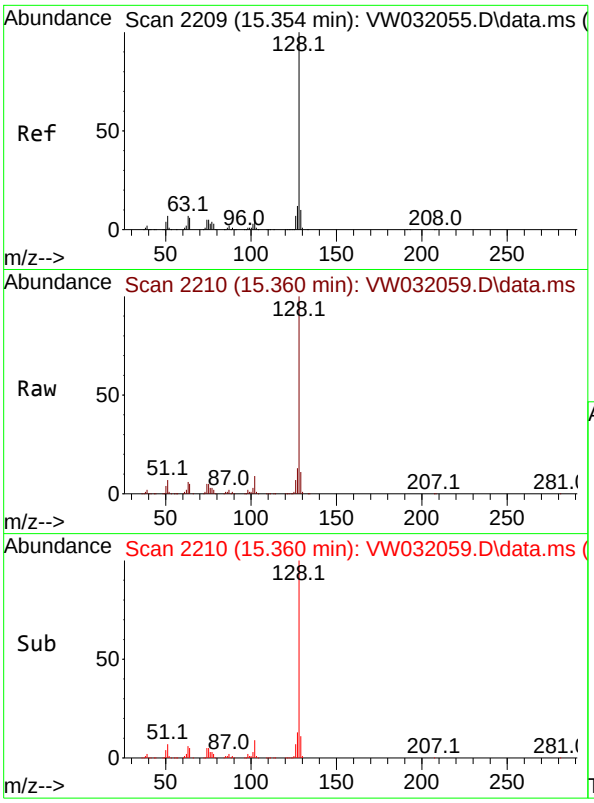



#94
Hexachlorobutadiene
Concen: 51.262 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:225 Resp: 75299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 56.5 | 31.8 | 95.3 |
| 227 | 61.3 | 33.5 | 100.5 |

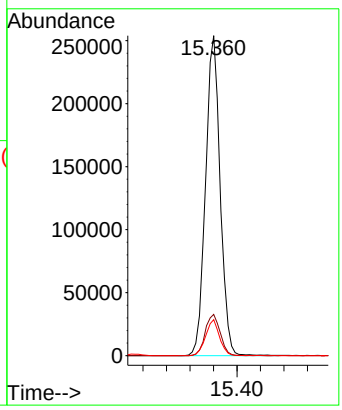





#95
Naphthalene
Concen: 54.415 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:128 Resp: 43813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.2 | 10.5 | 15.7 |
| 129 | 10.7 | 8.2 | 12.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

**Manual Integrations**
**APPROVED**

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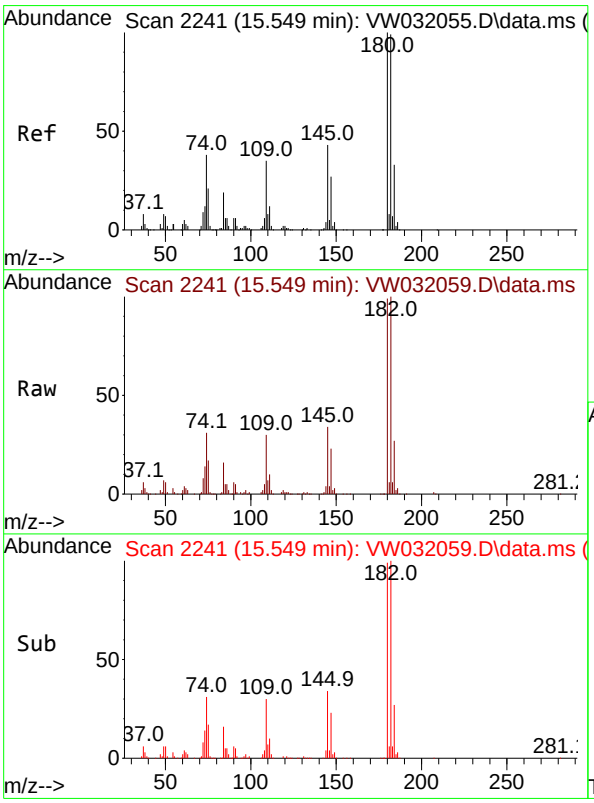
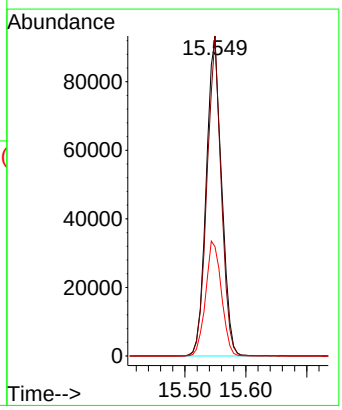



#96
1,2,3-Trichlorobenzene
Concen: 54.327 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:180 Resp: 162431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.5 | 46.0 | 138.0 |
| 145 | 37.1 | 19.2 | 57.6 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032059.D
Acq On : 11 Aug 2025 11:51
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Quant Time: Aug 12 04:12:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 101 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.358 | 0.308 | 14.0 | 93 | 0.00 |
| 3 | P | Chloromethane | 0.482 | 0.457 | 5.2 | 106 | 0.00 |
| 4 | C | Vinyl Chloride | 0.583 | 0.549 | 5.8# | 105 | 0.00 |
| 5 | T | Bromomethane | 0.437 | 0.413 | 5.5 | 102 | 0.00 |
| 6 | T | Chloroethane | 0.386 | 0.369 | 4.4 | 102 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.467 | 0.480 | -2.8 | 105 | 0.00 |
| 8 | T | Diethyl Ether | 0.382 | 0.385 | -0.8 | 103 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.551 | 0.521 | 5.4 | 102 | 0.00 |
| 10 | T | Methyl Iodide | 0.781 | 0.777 | 0.5 | 105 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.047 | 0.051 | -8.5 | 102 | -0.01 |
| 12 | CM | 1,1-Dichloroethene | 0.606 | 0.582 | 4.0# | 103 | 0.00 |
| 13 | T | Acrolein | 0.075 | 0.071 | 5.3 | 102 | 0.00 |
| 14 | T | Allyl chloride | 0.883 | 0.902 | -2.2 | 106 | 0.00 |
| 15 | T | Acrylonitrile | 0.182 | 0.194 | -6.6 | 103 | 0.00 |
| 16 | T | Acetone | 0.167 | 0.170 | -1.8 | 106 | 0.00 |
| 17 | T | Carbon Disulfide | 1.628 | 1.594 | 2.1 | 104 | 0.00 |
| 18 | T | Methyl Acetate | 0.530 | 0.557 | -5.1 | 102 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.068 | 1.164 | -9.0 | 107 | 0.00 |
| 20 | T | Methylene Chloride | 0.774 | 0.719 | 7.1 | 107 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.644 | 0.644 | 0.0 | 104 | 0.00 |
| 22 | T | Diisopropyl ether | 1.860 | 1.936 | -4.1 | 104 | 0.00 |
| 23 | T | Vinyl Acetate | 1.222 | 1.320 | -8.0 | 103 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.189 | 1.170 | 1.6 | 103 | 0.00 |
| 25 | T | 2-Butanone | 0.238 | 0.259 | -8.8 | 103 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.596 | 0.592 | 0.7 | 104 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.752 | 0.773 | -2.8 | 105 | 0.00 |
| 28 | T | Bromochloromethane | 0.541 | 0.544 | -0.6 | 102 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.157 | 0.172 | -9.6 | 102 | 0.00 |
| 30 | C | Chloroform | 1.260 | 1.255 | 0.4# | 103 | 0.00 |
| 31 | T | Cyclohexane | 1.031 | 0.961 | 6.8 | 101 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.915 | 0.917 | -0.2 | 107 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.723 | 0.712 | 1.5 | 101 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 103 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.323 | 0.323 | 0.0 | 103 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.455 | 0.451 | 0.9 | 100 | 0.00 |
| 37 | T | Ethyl Acetate | 0.268 | 0.296 | -10.4 | 104 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.439 | 0.440 | -0.2 | 101 | 0.00 |
| 39 | T | Methylcyclohexane | 0.555 | 0.579 | -4.3 | 103 | 0.00 |
| 40 | TM | Benzene | 1.415 | 1.423 | -0.6 | 100 | 0.00 |
| 41 | T | Methacrylonitrile | 0.152 | 0.168 | -10.5 | 104 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.453 | 0.463 | -2.2 | 103 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.493 | 0.541 | -9.7 | 104 | 0.00 |
| 44 | TM | Trichloroethene | 0.337 | 0.332 | 1.5 | 101 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.342 | 0.352 | -2.9# | 103 | 0.00 |
| 46 | T | Dibromomethane | 0.221 | 0.223 | -0.9 | 101 | 0.00 |
| 47 | T | Bromodichloromethane | 0.509 | 0.527 | -3.5 | 102 | 0.00 |
| 48 | T | Methyl methacrylate | 0.238 | 0.262 | -10.1 | 102 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032059.D
Acq On : 11 Aug 2025 11:51
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Quant Time: Aug 12 04:12:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 0.003 | 0.003 | 0.0 | 104 | 0.00 |
| 50 | S | Toluene-d8 | 1.195 | 1.188 | 0.6 | 99 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.279 | 0.307 | -10.0 | 102 | 0.00 |
| 52 | CM | Toluene | 0.892 | 0.899 | -0.8# | 100 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.476 | 0.506 | -6.3 | 102 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.541 | 0.568 | -5.0 | 101 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.293 | 0.303 | -3.4 | 103 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.392 | 0.442 | -12.8 | 104 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.511 | 0.523 | -2.3 | 102 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.217 | 0.237 | -9.2 | 102 | 0.00 |
| 59 | T | 2-Hexanone | 0.193 | 0.217 | -12.4 | 102 | 0.00 |
| 60 | T | Dibromochloromethane | 0.335 | 0.350 | -4.5 | 104 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.285 | 0.300 | -5.3 | 104 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.440 | 0.453 | -3.0 | 102 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 102 | 0.00 |
| 64 | T | Tetrachloroethene | 0.289 | 0.296 | -2.4 | 109 | 0.00 |
| 65 | PM | Chlorobenzene | 1.088 | 1.077 | 1.0 | 103 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.340 | 0.342 | -0.6 | 103 | 0.00 |
| 67 | C | Ethyl Benzene | 1.843 | 1.853 | -0.5# | 101 | 0.00 |
| 68 | T | m/p-Xylenes | 0.711 | 0.723 | -1.7 | 101 | 0.00 |
| 69 | T | o-Xylene | 0.657 | 0.676 | -2.9 | 102 | 0.00 |
| 70 | T | Styrene | 1.168 | 1.211 | -3.7 | 102 | 0.00 |
| 71 | P | Bromoform | 0.194 | 0.213 | -9.8 | 106 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 102 | 0.00 |
| 73 | T | Isopropylbenzene | 3.494 | 3.674 | -5.2 | 102 | 0.00 |
| 74 | T | N-amyl acetate | 1.003 | 1.116 | -11.3 | 102 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.830 | 0.871 | -4.9 | 102 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.679 | 0.653 | 3.8 | 87 | 0.00 |
| 77 | T | Bromobenzene | 0.835 | 0.833 | 0.2 | 97 | 0.00 |
| 78 | T | n-propylbenzene | 4.302 | 4.401 | -2.3 | 100 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.655 | 2.714 | -2.2 | 101 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.967 | 3.102 | -4.6 | 102 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.262 | 0.281 | -7.3 | 99 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.821 | 2.839 | -0.6 | 100 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.462 | 2.648 | -7.6 | 105 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.020 | 3.220 | -6.6 | 103 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.722 | 3.765 | -1.2 | 100 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.103 | 3.201 | -3.2 | 99 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.661 | 1.671 | -0.6 | 97 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.678 | 1.676 | 0.1 | 102 | 0.00 |
| 89 | T | n-Butylbenzene | 3.015 | 3.133 | -3.9 | 100 | 0.00 |
| 90 | T | Hexachloroethane | 0.568 | 0.571 | -0.5 | 103 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.504 | 1.532 | -1.9 | 102 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.147 | 0.159 | -8.2 | 102 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.900 | 0.950 | -5.6 | 105 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.402 | 0.412 | -2.5 | 109 | 0.00 |
| 95 | T | Naphthalene | 2.205 | 2.400 | -8.8 | 101 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032059.D
Acq On : 11 Aug 2025 11:51
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Quant Time: Aug 12 04:12:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 0.819 | 0.890 | -8.7 | 109 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032059.D
Acq On : 11 Aug 2025 11:51
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Quant Time: Aug 12 04:12:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 101 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 43.069 | 13.9 | 93 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 47.474 | 5.1 | 106 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 47.096 | 5.8# | 105 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 47.201 | 5.6 | 102 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 47.858 | 4.3 | 102 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 51.386 | -2.8 | 105 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 50.380 | -0.8 | 103 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 47.316 | 5.4 | 102 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 49.742 | 0.5 | 105 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 271.910 | -8.8 | 102 | -0.01 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 47.992 | 4.0# | 103 | 0.00 |
| 13 | T | Acrolein | 250.000 | 236.960 | 5.2 | 102 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 51.094 | -2.2 | 106 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 265.958 | -6.4 | 103 | 0.00 |
| 16 | T | Acetone | 250.000 | 254.262 | -1.7 | 106 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 48.970 | 2.1 | 104 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 52.614 | -5.2 | 102 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 54.465 | -8.9 | 107 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 46.453 | 7.1 | 107 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 50.035 | -0.1 | 104 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 52.038 | -4.1 | 104 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 270.210 | -8.1 | 103 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 49.234 | 1.5 | 103 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 272.083 | -8.8 | 103 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 49.659 | 0.7 | 104 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 51.404 | -2.8 | 105 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 50.315 | -0.6 | 102 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 274.235 | -9.7 | 102 | 0.00 |
| 30 | C | Chloroform | 50.000 | 49.803 | 0.4# | 103 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 46.646 | 6.7 | 101 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 50.108 | -0.2 | 107 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 49.205 | 1.6 | 101 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 103 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 49.939 | 0.1 | 103 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 49.574 | 0.9 | 100 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 55.214 | -10.4 | 104 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 50.015 | -0.0 | 101 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 52.181 | -4.4 | 103 | 0.00 |
| 40 | TM | Benzene | 50.000 | 50.272 | -0.5 | 100 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 55.204 | -10.4 | 104 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 51.154 | -2.3 | 103 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 54.846 | -9.7 | 104 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 49.175 | 1.7 | 101 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 51.403 | -2.8# | 103 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 50.497 | -1.0 | 101 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 51.775 | -3.5 | 102 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 55.048 | -10.1 | 102 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032059.D
Acq On : 11 Aug 2025 11:51
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Quant Time: Aug 12 04:12:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 1000.000 | 1155.151 | -15.5 | 104 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 49.708 | 0.6 | 99 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 275.585 | -10.2 | 102 | 0.00 |
| 52 | CM | Toluene | 50.000 | 50.410 | -0.8# | 100 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 53.108 | -6.2 | 102 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 52.577 | -5.2 | 101 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 51.716 | -3.4 | 103 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 56.374 | -12.7 | 104 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 51.186 | -2.4 | 102 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 272.893 | -9.2 | 102 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 281.817 | -12.7 | 102 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 52.276 | -4.6 | 104 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 52.603 | -5.2 | 104 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 51.460 | -2.9 | 102 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 102 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 51.245 | -2.5 | 109 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 49.461 | 1.1 | 103 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 50.324 | -0.6 | 103 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 50.253 | -0.5# | 101 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 101.607 | -1.6 | 101 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 51.416 | -2.8 | 102 | 0.00 |
| 70 | T | Styrene | 50.000 | 51.833 | -3.7 | 102 | 0.00 |
| 71 | P | Bromoform | 50.000 | 54.945 | -9.9 | 106 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 102 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 52.571 | -5.1 | 102 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 55.682 | -11.4 | 102 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 52.514 | -5.0 | 102 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 48.091 | 3.8 | 87 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 49.886 | 0.2 | 97 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 51.148 | -2.3 | 100 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 51.114 | -2.2 | 101 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 52.291 | -4.6 | 102 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 53.570 | -7.1 | 99 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 50.312 | -0.6 | 100 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 53.777 | -7.6 | 105 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 53.308 | -6.6 | 103 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 50.571 | -1.1 | 100 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 51.580 | -3.2 | 99 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 50.304 | -0.6 | 97 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 49.942 | 0.1 | 102 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 51.958 | -3.9 | 100 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 50.329 | -0.7 | 103 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 50.926 | -1.9 | 102 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 53.872 | -7.7 | 102 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 52.764 | -5.5 | 105 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 51.262 | -2.5 | 109 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 54.415 | -8.8 | 101 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032059.D
Acq On : 11 Aug 2025 11:51
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Quant Time: Aug 12 04:12:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 54.327 | -8.7 | 109 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG No.: Q2819

Instrument ID: MSVOA_Y Calibration Date(s): 08/12/2025 08/12/2025

Heated Purge: (Y/N) Y Calibration Time(s): 14:54 16:47

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VY023050.D RRF010 = VY023051.D RRF020 = VY023052.D
RRF050 = VY023053.D RRF100 = VY023054.D RRF150 = VY023055.D

| COMPOUND | RRF005 | RRF010 | RRF020 | RRF050 | RRF100 | RRF150 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.487 | 0.463 | 0.460 | 0.348 | 0.337 | 0.354 | 0.408 | 16.8 |
| Chloromethane | 0.699 | 0.707 | 0.736 | 0.607 | 0.603 | 0.613 | 0.661 | 9 |
| Vinyl Chloride | 0.868 | 0.870 | 0.875 | 0.769 | 0.754 | 0.766 | 0.817 | 7.3 |
| Bromomethane | 0.673 | 0.638 | 0.653 | 0.540 | 0.576 | 0.581 | 0.610 | 8.5 |
| Chloroethane | 0.585 | 0.567 | 0.569 | 0.515 | 0.508 | 0.516 | 0.543 | 6.2 |
| Trichlorofluoromethane | 1.059 | 1.044 | 1.048 | 0.937 | 0.900 | 0.974 | 0.994 | 6.7 |
| 1,1,2-Trichlorotrifluoroethane | 0.522 | 0.519 | 0.521 | 0.462 | 0.445 | 0.472 | 0.490 | 7 |
| 1,1-Dichloroethene | 0.492 | 0.505 | 0.502 | 0.463 | 0.454 | 0.475 | 0.482 | 4.4 |
| Acetone | 0.110 | 0.111 | 0.106 | 0.103 | 0.094 | 0.096 | 0.103 | 6.9 |
| Carbon Disulfide | 1.656 | 1.663 | 1.662 | 1.491 | 1.453 | 1.501 | 1.571 | 6.3 |
| Methyl tert-butyl Ether | 1.181 | 1.268 | 1.296 | 1.236 | 1.202 | 1.308 | 1.249 | 4.1 |
| Methyl Acetate | 0.299 | 0.308 | 0.325 | 0.322 | 0.280 | 0.309 | 0.307 | 5.4 |
| Methylene Chloride | 0.861 | 0.706 | 0.606 | 0.510 | 0.511 | 0.524 | 0.620 | 22.7 |
| trans-1,2-Dichloroethene | 0.535 | 0.561 | 0.559 | 0.523 | 0.520 | 0.550 | 0.541 | 3.3 |
| 1,1-Dichloroethane | 0.929 | 0.969 | 0.984 | 0.918 | 0.907 | 0.945 | 0.942 | 3.1 |
| Cyclohexane | 1.040 | 0.934 | 0.905 | 0.816 | 0.792 | 0.838 | 0.888 | 10.4 |
| 2-Butanone | 0.135 | 0.152 | 0.143 | 0.142 | 0.129 | 0.142 | 0.140 | 5.5 |
| Carbon Tetrachloride | 0.490 | 0.486 | 0.505 | 0.466 | 0.466 | 0.484 | 0.483 | 3.1 |
| cis-1,2-Dichloroethene | 0.621 | 0.624 | 0.645 | 0.607 | 0.610 | 0.648 | 0.626 | 2.8 |
| Bromochloromethane | 0.367 | 0.379 | 0.393 | 0.365 | 0.367 | 0.371 | 0.374 | 2.9 |
| Chloroform | 0.969 | 0.997 | 1.002 | 0.943 | 0.936 | 0.981 | 0.971 | 2.8 |
| 1,1,1-Trichloroethane | 0.862 | 0.877 | 0.899 | 0.837 | 0.833 | 0.864 | 0.862 | 2.8 |
| Methylcyclohexane | 0.574 | 0.579 | 0.605 | 0.566 | 0.575 | 0.614 | 0.586 | 3.3 |
| Benzene | 1.354 | 1.375 | 1.430 | 1.334 | 1.334 | 1.395 | 1.370 | 2.8 |
| 1,2-Dichloroethane | 0.353 | 0.370 | 0.371 | 0.347 | 0.339 | 0.359 | 0.356 | 3.6 |
| Trichloroethene | 0.354 | 0.355 | 0.373 | 0.341 | 0.342 | 0.359 | 0.354 | 3.3 |
| 1,2-Dichloropropane | 0.303 | 0.321 | 0.326 | 0.309 | 0.309 | 0.325 | 0.315 | 3.1 |
| Bromodichloromethane | 0.446 | 0.464 | 0.489 | 0.459 | 0.456 | 0.481 | 0.466 | 3.5 |
| 4-Methyl-2-Pentanone | 0.168 | 0.201 | 0.200 | 0.199 | 0.190 | 0.211 | 0.195 | 7.7 |
| Toluene | 0.817 | 0.851 | 0.902 | 0.858 | 0.873 | 0.921 | 0.870 | 4.3 |

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG No.: Q2819

Instrument ID: MSVOA_Y Calibration Date(s): 08/12/2025 08/12/2025

Heated Purge: (Y/N) Y Calibration Time(s): 14:54 16:47

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VY023050.D RRF010 = VY023051.D RRF020 = VY023052.D
RRF050 = VY023053.D RRF100 = VY023054.D RRF150 = VY023055.D

| COMPOUND | RRF005 | RRF010 | RRF020 | RRF050 | RRF100 | RRF150 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 0.377 | 0.410 | 0.435 | 0.420 | 0.428 | 0.459 | 0.422 | 6.5 |
| cis-1,3-Dichloropropene | 0.457 | 0.486 | 0.513 | 0.496 | 0.500 | 0.540 | 0.499 | 5.5 |
| 1,1,2-Trichloroethane | 0.230 | 0.242 | 0.253 | 0.239 | 0.236 | 0.254 | 0.242 | 4 |
| 2-Hexanone | 0.112 | 0.134 | 0.137 | 0.136 | 0.131 | 0.146 | 0.133 | 8.6 |
| Dibromochloromethane | 0.300 | 0.317 | 0.326 | 0.318 | 0.316 | 0.340 | 0.320 | 4.1 |
| 1,2-Dibromoethane | 0.206 | 0.232 | 0.237 | 0.226 | 0.222 | 0.242 | 0.228 | 5.6 |
| Tetrachloroethene | 0.477 | 0.463 | 0.475 | 0.435 | 0.393 | 0.437 | 0.446 | 7.2 |
| Chlorobenzene | 1.062 | 1.070 | 1.116 | 1.055 | 1.057 | 1.111 | 1.079 | 2.6 |
| Ethyl Benzene | 1.775 | 1.795 | 1.894 | 1.859 | 1.858 | 1.956 | 1.856 | 3.6 |
| m/p-Xylenes | 0.676 | 0.699 | 0.745 | 0.718 | 0.737 | 0.774 | 0.725 | 4.8 |
| o-Xylene | 0.605 | 0.643 | 0.696 | 0.686 | 0.702 | 0.742 | 0.679 | 7.1 |
| Styrene | 0.945 | 1.023 | 1.140 | 1.123 | 1.176 | 1.254 | 1.110 | 10 |
| Bromoform | 0.197 | 0.213 | 0.216 | 0.214 | 0.213 | 0.231 | 0.214 | 5 |
| Isopropylbenzene | 3.420 | 3.483 | 3.602 | 3.505 | 3.514 | 3.650 | 3.529 | 2.4 |
| 1,1,2,2-Tetrachloroethane | 0.584 | 0.647 | 0.605 | 0.585 | 0.581 | 0.613 | 0.603 | 4.2 |
| 1,3-Dichlorobenzene | 1.600 | 1.642 | 1.701 | 1.610 | 1.656 | 1.752 | 1.660 | 3.5 |
| 1,4-Dichlorobenzene | 1.687 | 1.657 | 1.680 | 1.601 | 1.597 | 1.660 | 1.647 | 2.3 |
| 1,2-Dichlorobenzene | 1.410 | 1.472 | 1.496 | 1.420 | 1.438 | 1.499 | 1.456 | 2.7 |
| 1,2-Dibromo-3-Chloropropane | 0.093 | 0.096 | 0.094 | 0.095 | 0.086 | 0.098 | 0.094 | 4.3 |
| 1,2,4-Trichlorobenzene | 0.788 | 0.839 | 0.881 | 0.847 | 0.856 | 0.955 | 0.861 | 6.4 |
| 1,2,3-Trichlorobenzene | 0.685 | 0.733 | 0.752 | 0.720 | 0.727 | 0.834 | 0.742 | 6.7 |
| 1,2-Dichloroethane-d4 | 0.491 | 0.490 | 0.482 | 0.462 | 0.472 | 0.462 | 0.477 | 2.7 |
| Dibromofluoromethane | 0.290 | 0.299 | 0.301 | 0.293 | 0.307 | 0.305 | 0.299 | 2.1 |
| Toluene-d8 | 1.151 | 1.157 | 1.173 | 1.143 | 1.202 | 1.186 | 1.169 | 1.9 |
| 4-Bromofluorobenzene | 0.358 | 0.367 | 0.367 | 0.370 | 0.399 | 0.394 | 0.376 | 4.4 |

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

# Response Factor Report GCVOA_Y

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y081225S.M
Title : SW846 8260
Last Update : Wed Aug 13 02:10:11 2025
Response Via : Initial Calibration

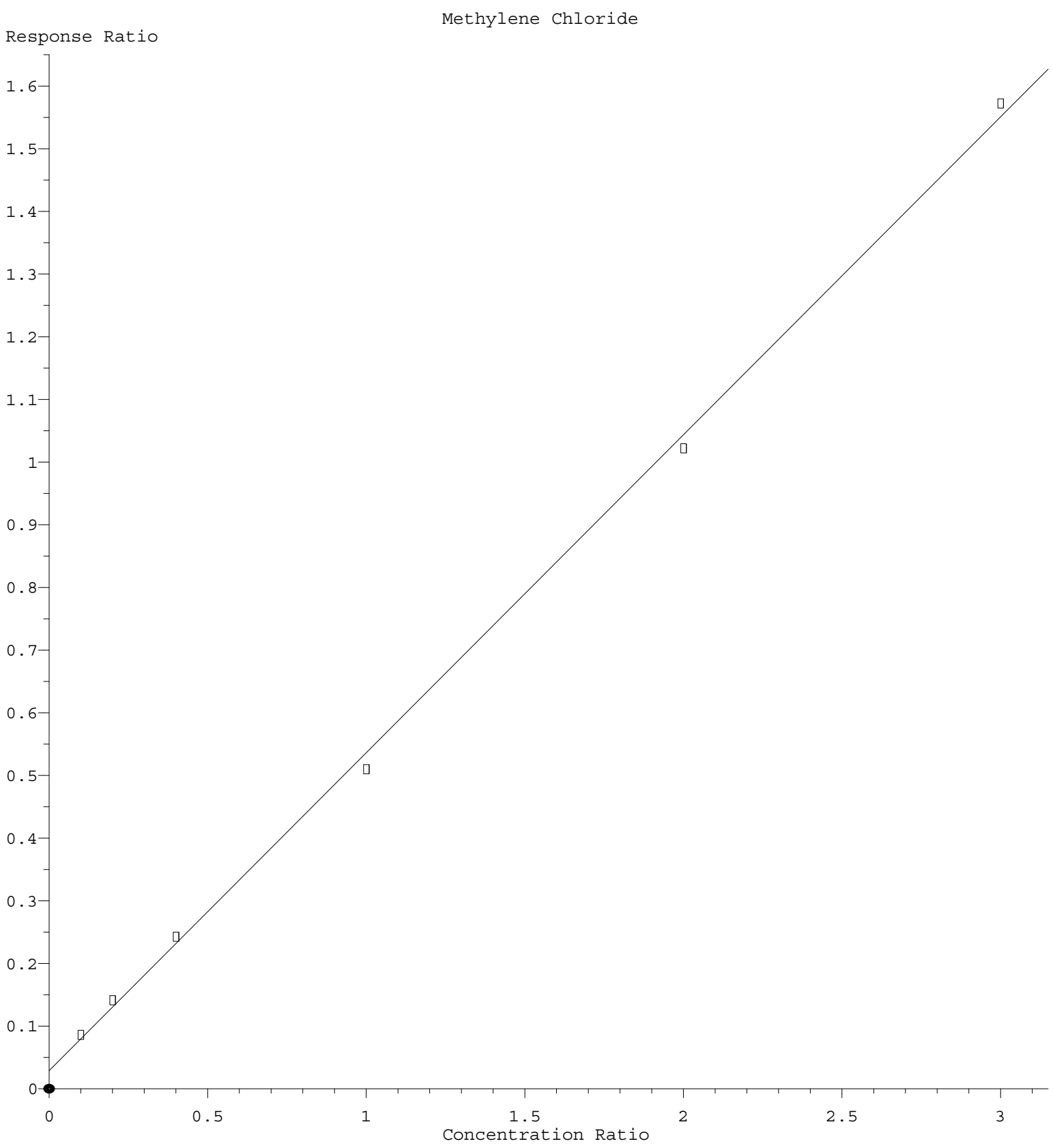
Calibration Files
5 =VY023050.D 10 =VY023051.D 20 =VY023052.D 50 =VY023053.D 100 =VY023054.D 150 =VY023055.D

| | | Compound | 5 | 10 | 20 | 50 | 100 | 150 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | Pentafluorobenzene | ----------ISTD---------- | | | | | | | |
| 2) | T | Dichlorodifluo... | 0.487 | 0.463 | 0.460 | 0.348 | 0.337 | 0.354 | 0.408 | 16.79 |
| 3) | P | Chloromethane | 0.699 | 0.707 | 0.736 | 0.607 | 0.603 | 0.613 | 0.661 | 9.01 |
| 4) | C | Vinyl Chloride | 0.868 | 0.870 | 0.875 | 0.769 | 0.754 | 0.766 | 0.817 | 7.29# |
| 5) | T | Bromomethane | 0.673 | 0.638 | 0.653 | 0.540 | 0.576 | 0.581 | 0.610 | 8.52 |
| 6) | T | Chloroethane | 0.585 | 0.567 | 0.569 | 0.515 | 0.508 | 0.516 | 0.543 | 6.19 |
| 7) | T | Trichlorofluor... | 1.059 | 1.044 | 1.048 | 0.937 | 0.900 | 0.974 | 0.994 | 6.68 |
| 8) | T | Diethyl Ether | 0.271 | 0.276 | 0.271 | 0.251 | 0.245 | 0.264 | 0.263 | 4.69 |
| 9) | T | 1,1,2-Trichlor... | 0.522 | 0.519 | 0.521 | 0.462 | 0.445 | 0.472 | 0.490 | 7.01 |
| 10) | T | Methyl Iodide | 0.468 | 0.491 | 0.539 | 0.549 | 0.564 | 0.563 | 0.529 | 7.57 |
| 11) | T | Tert butyl alc... | 0.033 | 0.037 | 0.033 | 0.032 | 0.029 | 0.033 | 0.033 | 7.44 |
| 12) | CM | 1,1-Dichloroet... | 0.492 | 0.505 | 0.502 | 0.463 | 0.454 | 0.475 | 0.482 | 4.38# |
| 13) | T | Acrolein | 0.048 | 0.055 | 0.050 | 0.045 | 0.043 | 0.046 | 0.048 | 8.57 |
| 14) | T | Allyl chloride | 0.734 | 0.718 | 0.724 | 0.686 | 0.681 | 0.712 | 0.709 | 3.01 |
| 15) | T | Acrylonitrile | 0.101 | 0.114 | 0.112 | 0.106 | 0.100 | 0.109 | 0.107 | 5.51 |
| 16) | T | Acetone | 0.110 | 0.111 | 0.106 | 0.103 | 0.094 | 0.096 | 0.103 | 6.89 |
| 17) | T | Carbon Disulfide | 1.656 | 1.663 | 1.662 | 1.491 | 1.453 | 1.501 | 1.571 | 6.30 |
| 18) | T | Methyl Acetate | 0.299 | 0.308 | 0.325 | 0.322 | 0.280 | 0.309 | 0.307 | 5.37 |
| 19) | T | Methyl tert-bu... | 1.181 | 1.268 | 1.296 | 1.236 | 1.202 | 1.308 | 1.249 | 4.09 |
| 20) | T | Methylene Chlo... | 0.861 | 0.706 | 0.606 | 0.510 | 0.511 | 0.524 | 0.620 | 22.69 |
| 21) | T | trans-1,2-Dich... | 0.535 | 0.561 | 0.559 | 0.523 | 0.520 | 0.550 | 0.541 | 3.28 |
| 22) | T | Diisopropyl ether | 1.442 | 1.565 | 1.609 | 1.512 | 1.510 | 1.605 | 1.541 | 4.21 |
| 23) | T | Vinyl Acetate | 0.790 | 0.875 | 0.875 | 0.841 | 0.830 | 0.899 | 0.852 | 4.62 |
| 24) | P | 1,1-Dichloroet... | 0.929 | 0.969 | 0.984 | 0.918 | 0.907 | 0.945 | 0.942 | 3.15 |
| 25) | T | 2-Butanone | 0.135 | 0.152 | 0.143 | 0.142 | 0.129 | 0.142 | 0.140 | 5.51 |
| 26) | T | 2,2-Dichloropr... | 0.837 | 0.830 | 0.844 | 0.790 | 0.776 | 0.800 | 0.813 | 3.43 |
| 27) | T | cis-1,2-Dichlo... | 0.621 | 0.624 | 0.645 | 0.607 | 0.610 | 0.648 | 0.626 | 2.77 |
| 28) | T | Bromochloromet... | 0.367 | 0.379 | 0.393 | 0.365 | 0.367 | 0.371 | 0.374 | 2.88 |
| 29) | T | Tetrahydrofuran | 0.084 | 0.091 | 0.089 | 0.087 | 0.081 | 0.091 | 0.087 | 4.62 |
| 30) | C | Chloroform | 0.969 | 0.997 | 1.002 | 0.943 | 0.936 | 0.981 | 0.971 | 2.81# |
| 31) | T | Cyclohexane | 1.040 | 0.934 | 0.905 | 0.816 | 0.792 | 0.838 | 0.888 | 10.35 |
| 32) | T | 1,1,1-Trichlor... | 0.862 | 0.877 | 0.899 | 0.837 | 0.833 | 0.864 | 0.862 | 2.85 |
| 33) | S | 1,2-Dichloroet... | 0.491 | 0.490 | 0.482 | 0.462 | 0.472 | 0.462 | 0.477 | 2.74 |
| 34) | I | 1,4-Difluorobenzene | ----------ISTD---------- | | | | | | | |
| 35) | S | Dibromofluorom... | 0.290 | 0.299 | 0.301 | 0.293 | 0.307 | 0.305 | 0.299 | 2.14 |
| 36) | T | 1,1-Dichloropr... | 0.442 | 0.455 | 0.461 | 0.433 | 0.429 | 0.447 | 0.445 | 2.81 |
| 37) | T | Ethyl Acetate | 0.167 | 0.197 | 0.196 | 0.188 | 0.178 | 0.195 | 0.187 | 6.52 |
| 38) | T | Carbon Tetrach... | 0.490 | 0.486 | 0.505 | 0.466 | 0.466 | 0.484 | 0.483 | 3.08 |
| 39) | T | Methylcyclohexane | 0.574 | 0.579 | 0.605 | 0.566 | 0.575 | 0.614 | 0.586 | 3.35 |
| 40) | TM | Benzene | 1.354 | 1.375 | 1.430 | 1.334 | 1.334 | 1.395 | 1.370 | 2.76 |
| 41) | T | Methacrylonitrile | 0.113 | 0.107 | 0.111 | 0.110 | 0.102 | 0.103 | 0.108 | 4.05 |
| 42) | TM | 1,2-Dichloroet... | 0.353 | 0.370 | 0.371 | 0.347 | 0.339 | 0.359 | 0.356 | 3.59 |
| 43) | T | Isopropyl Acetate | 0.352 | 0.383 | 0.388 | 0.373 | 0.362 | 0.407 | 0.378 | 5.16 |
| 44) | TM | Trichloroethene | 0.354 | 0.355 | 0.373 | 0.341 | 0.342 | 0.359 | 0.354 | 3.35 |
| 45) | C | 1,2-Dichloropr... | 0.303 | 0.321 | 0.326 | 0.309 | 0.309 | 0.325 | 0.315 | 3.08# |
| 46) | T | Dibromomethane | 0.166 | 0.189 | 0.187 | 0.178 | 0.176 | 0.190 | 0.181 | 5.14 |
| 47) | T | Bromodichlorom... | 0.446 | 0.464 | 0.489 | 0.459 | 0.456 | 0.481 | 0.466 | 3.47 |
| 48) | T | Methyl methacr... | 0.149 | 0.180 | 0.189 | 0.188 | 0.182 | 0.196 | 0.181 | 9.18 |
| 49) | T | 1,4-Dioxane | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 0.002 | 6.71 |
| 50) | S | Toluene-d8 | 1.151 | 1.157 | 1.173 | 1.143 | 1.202 | 1.186 | 1.169 | 1.92 |
| 51) | T | 4-Methyl-2-Pen... | 0.168 | 0.201 | 0.200 | 0.199 | 0.190 | 0.211 | 0.195 | 7.67 |
| 52) | CM | Toluene | 0.817 | 0.851 | 0.902 | 0.858 | 0.873 | 0.921 | 0.870 | 4.28# |
| 53) | T | t-1,3-Dichloro... | 0.377 | 0.410 | 0.435 | 0.420 | 0.428 | 0.459 | 0.422 | 6.47 |
| 54) | T | cis-1,3-Dichlo... | 0.457 | 0.486 | 0.513 | 0.496 | 0.500 | 0.540 | 0.499 | 5.54 |
| 55) | T | 1,1,2-Trichlor... | 0.230 | 0.242 | 0.253 | 0.239 | 0.236 | 0.254 | 0.242 | 3.96 |
| 56) | T | Ethyl methacry... | 0.247 | 0.298 | 0.312 | 0.320 | 0.323 | 0.359 | 0.310 | 11.84 |

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y081225S.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 57) | T | 1,3-Dichloropr... | 0.385 | 0.421 | 0.429 | 0.405 | 0.395 | 0.429 | 0.411 | 4.52 |
| 58) | T | 2-Chloroethyl ... | 0.114 | 0.135 | 0.144 | 0.155 | 0.158 | 0.171 | 0.146 | 13.68 |
| 59) | T | 2-Hexanone | 0.112 | 0.134 | 0.137 | 0.136 | 0.131 | 0.146 | 0.133 | 8.57 |
| 60) | T | Dibromochlorom... | 0.300 | 0.317 | 0.326 | 0.318 | 0.316 | 0.340 | 0.320 | 4.09 |
| 61) | T | 1,2-Dibromoethane | 0.206 | 0.232 | 0.237 | 0.226 | 0.222 | 0.242 | 0.228 | 5.60 |
| 62) | S | 4-Bromofluorob... | 0.358 | 0.367 | 0.367 | 0.370 | 0.399 | 0.394 | 0.376 | 4.41 |
| 63) | I | Chlorobenzene-d5 | ----------ISTD---------- | | | | | | | |
| 64) | T | Tetrachloroethene | 0.477 | 0.463 | 0.475 | 0.435 | 0.393 | 0.437 | 0.446 | 7.16 |
| 65) | PM | Chlorobenzene | 1.062 | 1.070 | 1.116 | 1.055 | 1.057 | 1.111 | 1.079 | 2.55 |
| 66) | T | 1,1,1,2-Tetrac... | 0.347 | 0.360 | 0.378 | 0.362 | 0.365 | 0.384 | 0.366 | 3.58 |
| 67) | C | Ethyl Benzene | 1.775 | 1.795 | 1.894 | 1.859 | 1.858 | 1.956 | 1.856 | 3.56# |
| 68) | T | m/p-Xylenes | 0.676 | 0.699 | 0.745 | 0.718 | 0.737 | 0.774 | 0.725 | 4.80 |
| 69) | T | o-Xylene | 0.605 | 0.643 | 0.696 | 0.686 | 0.702 | 0.742 | 0.679 | 7.13 |
| 70) | T | Styrene | 0.945 | 1.023 | 1.140 | 1.123 | 1.176 | 1.254 | 1.110 | 9.96 |
| 71) | P | Bromoform | 0.197 | 0.213 | 0.216 | 0.214 | 0.213 | 0.231 | 0.214 | 5.03 |
| 72) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | |
| 73) | T | Isopropylbenzene | 3.420 | 3.483 | 3.602 | 3.505 | 3.514 | 3.650 | 3.529 | 2.36 |
| 74) | T | N-amyl acetate | 0.633 | 0.738 | 0.757 | 0.767 | 0.756 | 0.840 | 0.748 | 8.89 |
| 75) | P | 1,1,2,2-Tetrac... | 0.584 | 0.647 | 0.605 | 0.585 | 0.581 | 0.613 | 0.603 | 4.20 |
| 76) | T | 1,2,3-Trichlor... | 0.551 | 0.483 | 0.472 | 0.535 | 0.409 | 0.444 | 0.483 | 11.18 |
| 77) | T | Bromobenzene | 0.824 | 0.830 | 0.866 | 0.828 | 0.831 | 0.873 | 0.842 | 2.58 |
| 78) | T | n-propylbenzene | 4.052 | 4.149 | 4.317 | 4.217 | 4.158 | 4.315 | 4.201 | 2.46 |
| 79) | T | 2-Chlorotoluene | 2.349 | 2.398 | 2.464 | 2.382 | 2.390 | 2.461 | 2.407 | 1.90 |
| 80) | T | 1,3,5-Trimethy... | 2.672 | 2.811 | 2.932 | 2.859 | 2.872 | 2.966 | 2.852 | 3.64 |
| 81) | T | trans-1,4-Dich... | 0.181 | 0.215 | 0.203 | 0.197 | 0.190 | 0.210 | 0.199 | 6.43 |
| 82) | T | 4-Chlorotoluene | 2.427 | 2.486 | 2.600 | 2.462 | 2.460 | 2.548 | 2.497 | 2.59 |
| 83) | T | tert-Butylbenzene | 2.428 | 2.481 | 2.626 | 2.588 | 2.630 | 2.702 | 2.576 | 3.98 |
| 84) | T | 1,2,4-Trimethy... | 2.596 | 2.760 | 2.955 | 2.837 | 2.894 | 2.993 | 2.839 | 5.12 |
| 85) | T | sec-Butylbenzene | 3.637 | 3.749 | 3.881 | 3.773 | 3.781 | 3.882 | 3.784 | 2.42 |
| 86) | T | p-Isopropyltol... | 2.878 | 2.978 | 3.241 | 3.167 | 3.230 | 3.350 | 3.141 | 5.66 |
| 87) | T | 1,3-Dichlorobe... | 1.600 | 1.642 | 1.701 | 1.610 | 1.656 | 1.752 | 1.660 | 3.46 |
| 88) | T | 1,4-Dichlorobe... | 1.687 | 1.657 | 1.680 | 1.601 | 1.597 | 1.660 | 1.647 | 2.35 |
| 89) | T | n-Butylbenzene | 2.625 | 2.809 | 2.972 | 2.911 | 2.933 | 3.059 | 2.885 | 5.24 |
| 90) | T | Hexachloroethane | 0.638 | 0.648 | 0.650 | 0.630 | 0.632 | 0.660 | 0.643 | 1.83 |
| 91) | T | 1,2-Dichlorobe... | 1.410 | 1.472 | 1.496 | 1.420 | 1.438 | 1.499 | 1.456 | 2.65 |
| 92) | T | 1,2-Dibromo-3-... | 0.093 | 0.096 | 0.094 | 0.095 | 0.086 | 0.098 | 0.094 | 4.27 |
| 93) | T | 1,2,4-Trichlor... | 0.788 | 0.839 | 0.881 | 0.847 | 0.856 | 0.955 | 0.861 | 6.43 |
| 94) | T | Hexachlorobuta... | 0.533 | 0.506 | 0.522 | 0.491 | 0.480 | 0.504 | 0.506 | 3.85 |
| 95) | T | Naphthalene | 1.204 | 1.364 | 1.462 | 1.488 | 1.500 | 1.791 | 1.468 | 13.14 |
| 96) | T | 1,2,3-Trichlor... | 0.685 | 0.733 | 0.752 | 0.720 | 0.727 | 0.834 | 0.742 | 6.73 |

(#) = Out of Range




Response = 5.073e-001 * Amt + 2.916e-002
Coef of Det (r^2) = 0.998910  Curve Fit: Linear
Method: C:\Chemstation\MSDCHEM\1\DATA\Archv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Calibration Table Last Updated: Wed Aug 13 02:10:11 2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023050.D
Acq On : 12 Aug 2025 14:54
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:50:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 561390 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 8.610 | 114 | 904866 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 759914 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 360397 | 50.000 | ug/l | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.055 | 65 | 27563 | 5.152 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 10.300%# | | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 26265 | 4.851 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 9.700%# | | | | |
| 50) Toluene-d8 | 10.103 | 98 | 104144 | 4.924 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 9.840%# | | | | |
| 62) 4-Bromofluorobenzene | 12.402 | 95 | 32420 | 4.766 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 9.540%# | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.861 | 85 | 27351 | 5.969 | ug/l | | 96 |
| 3) Chloromethane | 2.068 | 50 | 39269 | 5.291 | ug/l | | 98 |
| 4) Vinyl Chloride | 2.202 | 62 | 48736 | 5.312 | ug/l | | 99 |
| 5) Bromomethane | 2.592 | 94 | 37773 | 5.513 | ug/l | | 97 |
| 6) Chloroethane | 2.732 | 64 | 32816 | 5.380 | ug/l | | 98 |
| 7) Trichlorofluoromethane | 3.050 | 101 | 59438 | 5.328 | ug/l | | 99 |
| 8) Diethyl Ether | 3.452 | 74 | 15231 | 5.160 | ug/l | | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 3.812 | 101 | 29291 | 5.322 | ug/l | | 98 |
| 10) Methyl Iodide | 3.994 | 142 | 26272 | 4.424 | ug/l | | 98 |
| 11) Tert butyl alcohol | 4.866 | 59 | 9219 | 25.147 | ug/l | # | 92 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 27635 | 5.108 | ug/l | | 87 |
| 13) Acrolein | 3.647 | 56 | 13391 | 24.941 | ug/l | | 95 |
| 14) Allyl chloride | 4.372 | 41 | 41201 | 5.176 | ug/l | | 94 |
| 15) Acrylonitrile | 5.061 | 53 | 28255 | 23.547 | ug/l | | 95 |
| 16) Acetone | 3.866 | 43 | 30803 | 26.574 | ug/l | | 98 |
| 17) Carbon Disulfide | 4.098 | 76 | 92964 | 5.270 | ug/l | | 96 |
| 18) Methyl Acetate | 4.379 | 43 | 16806 | 4.872 | ug/l | | 99 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 66308 | 4.730 | ug/l | | 98 |
| 20) Methylene Chloride | 4.604 | 84 | 48322 | 5.657 | ug/l | | 97 |
| 21) trans-1,2-Dichloroethene | 5.110 | 96 | 30021 | 4.938 | ug/l | | 97 |
| 22) Diisopropyl ether | 6.012 | 45 | 80938 | 4.679 | ug/l | | 91 |
| 23) Vinyl Acetate | 5.958 | 43 | 221862 | 23.196 | ug/l | | 97 |
| 24) 1,1-Dichloroethane | 5.909 | 63 | 52152 | 4.931 | ug/l | | 99 |
| 25) 2-Butanone | 6.890 | 43 | 37821 | 23.991 | ug/l | | 97 |
| 26) 2,2-Dichloropropane | 6.878 | 77 | 46964 | 5.147 | ug/l | | 99 |
| 27) cis-1,2-Dichloroethene | 6.884 | 96 | 34877 | 4.962 | ug/l | | 97 |
| 28) Bromochloromethane | 7.238 | 49 | 20615 | 4.913 | ug/l | | 96 |
| 29) Tetrahydrofuran | 7.256 | 42 | 23487 | 24.035 | ug/l | | 96 |
| 30) Chloroform | 7.415 | 83 | 54392 | 4.987 | ug/l | | 96 |
| 31) Cyclohexane | 7.701 | 56 | 58362 | 5.856 | ug/l | # | 83 |
| 32) 1,1,1-Trichloroethane | 7.610 | 97 | 48413 | 5.003 | ug/l | | 99 |
| 36) 1,1-Dichloropropene | 7.829 | 75 | 39978 | 4.968 | ug/l | | 99 |
| 37) Ethyl Acetate | 6.982 | 43 | 15080 | 4.461 | ug/l | # | 95 |
| 38) Carbon Tetrachloride | 7.811 | 117 | 44360 | 5.076 | ug/l | | 99 |
| 39) Methylcyclohexane | 9.103 | 83 | 51931 | 4.901 | ug/l | | 99 |
| 40) Benzene | 8.073 | 78 | 122482 | 4.939 | ug/l | | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023050.D
Acq On : 12 Aug 2025 14:54
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 13 01:50:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.232 | 41 | 10246m | 5.247 | ug/l | | |
| 42) 1,2-Dichloroethane | 8.152 | 62 | 31902 | 4.946 | ug/l | | 98 |
| 43) Isopropyl Acetate | 8.195 | 43 | 31890 | 4.668 | ug/l | | 100 |
| 44) Trichloroethene | 8.859 | 130 | 32050 | 5.001 | ug/l | | 93 |
| 45) 1,2-Dichloropropane | 9.134 | 63 | 27418 | 4.805 | ug/l | | 93 |
| 46) Dibromomethane | 9.225 | 93 | 15033 | 4.590 | ug/l | | 97 |
| 47) Bromodichloromethane | 9.420 | 83 | 40327 | 4.785 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.219 | 41 | 13477 | 4.122 | ug/l | | 90 |
| 49) 1,4-Dioxane | 9.231 | 88 | 3454 | 89.939 | ug/l | # | 91 |
| 51) 4-Methyl-2-Pentanone | 9.993 | 43 | 75891 | 21.535 | ug/l | | 100 |
| 52) Toluene | 10.164 | 92 | 73910 | 4.692 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 34154 | 4.475 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 41326 | 4.579 | ug/l | | 97 |
| 55) 1,1,2-Trichloroethane | 10.566 | 97 | 20795 | 4.745 | ug/l | | 98 |
| 56) Ethyl methacrylate | 10.432 | 69 | 22376 | 3.990 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 34835 | 4.687 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 51585 | 19.500 | ug/l | | 100 |
| 59) 2-Hexanone | 10.755 | 43 | 50604 | 21.088 | ug/l | | 97 |
| 60) Dibromochloromethane | 10.908 | 129 | 27141 | 4.693 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 11.012 | 107 | 18652 | 4.528 | ug/l | | 97 |
| 64) Tetrachloroethene | 10.640 | 164 | 36210 | 5.336 | ug/l | | 97 |
| 65) Chlorobenzene | 11.438 | 112 | 80684 | 4.922 | ug/l | | 93 |
| 66) 1,1,1,2-Tetrachloroethane | 11.511 | 131 | 26397 | 4.745 | ug/l | | 94 |
| 67) Ethyl Benzene | 11.511 | 91 | 134854 | 4.781 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.621 | 106 | 102783 | 9.329 | ug/l | | 97 |
| 69) o-Xylene | 11.950 | 106 | 45944 | 4.453 | ug/l | | 94 |
| 70) Styrene | 11.963 | 104 | 71801 | 4.255 | ug/l | | 97 |
| 71) Bromoform | 12.127 | 173 | 14954 | 4.599 | ug/l | # | 94 |
| 73) Isopropylbenzene | 12.249 | 105 | 123246 | 4.845 | ug/l | | 99 |
| 74) N-amyl acetate | 12.066 | 43 | 22829 | 4.232 | ug/l | | 96 |
| 75) 1,1,2,2-Tetrachloroethane | 12.499 | 83 | 21057 | 4.848 | ug/l | | 98 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 19875m | 5.710 | ug/l | | |
| 77) Bromobenzene | 12.530 | 156 | 29681 | 4.891 | ug/l | | 100 |
| 78) n-propylbenzene | 12.590 | 91 | 146043 | 4.822 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.670 | 91 | 84671 | 4.880 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.731 | 105 | 96308 | 4.685 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.298 | 75 | 6514 | 4.533 | ug/l | | 89 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 87454 | 4.859 | ug/l | | 99 |
| 83) tert-Butylbenzene | 12.993 | 119 | 87496 | 4.712 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.036 | 105 | 93551 | 4.571 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.170 | 105 | 131079 | 4.806 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.285 | 119 | 103731 | 4.582 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.279 | 146 | 57668 | 4.819 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.359 | 146 | 60781 | 5.120 | ug/l | | 97 |
| 89) n-Butylbenzene | 13.609 | 91 | 94594 | 4.549 | ug/l | | 98 |
| 90) Hexachloroethane | 13.871 | 117 | 22980 | 4.958 | ug/l | | 97 |
| 91) 1,2-Dichlorobenzene | 13.651 | 146 | 50829 | 4.843 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.267 | 75 | 3369 | 4.982 | ug/l | | 93 |
| 93) 1,2,4-Trichlorobenzene | 14.913 | 180 | 28399 | 4.576 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 15.017 | 225 | 19196 | 5.263 | ug/l | | 96 |
| 95) Naphthalene | 15.133 | 128 | 43395 | 4.100 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.322 | 180 | 24703 | 4.619 | ug/l | | 98 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023050.D
Acq On : 12 Aug 2025 14:54
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:50:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

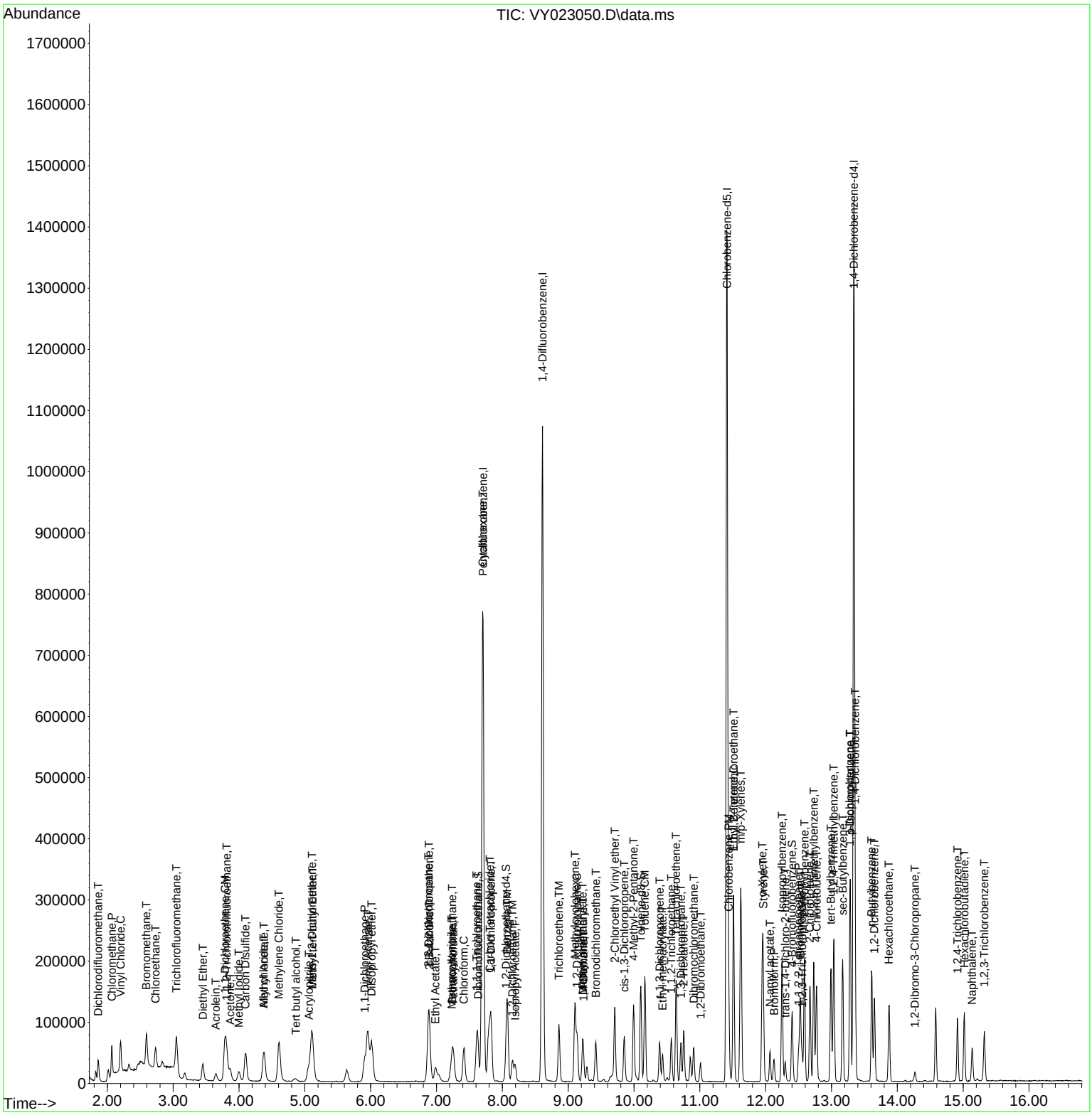
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023050.D
Acq On : 12 Aug 2025 14:54
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

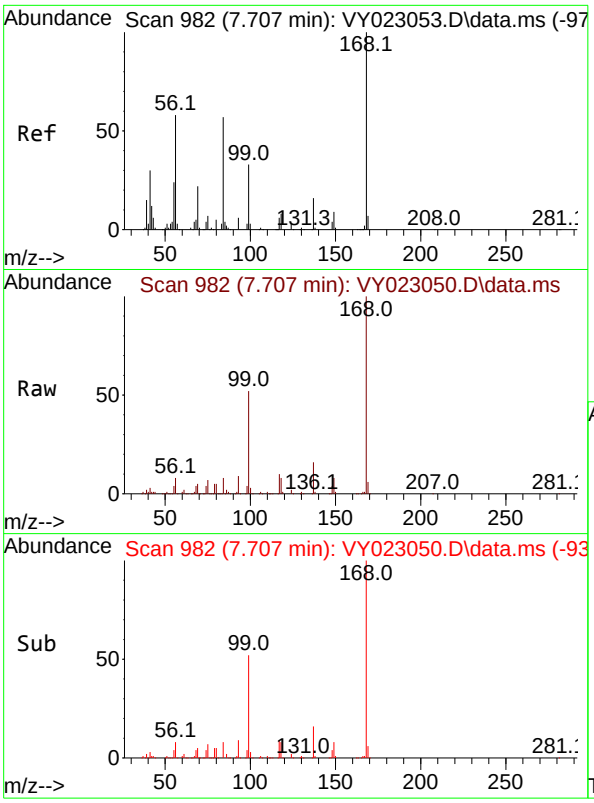
Quant Time: Aug 13 01:50:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

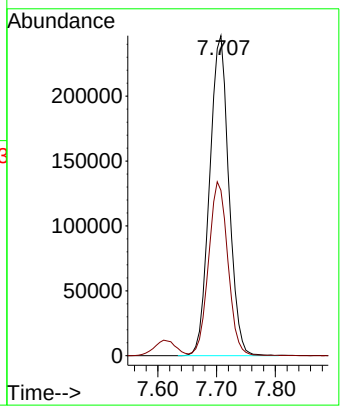





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:168 Resp: 56139

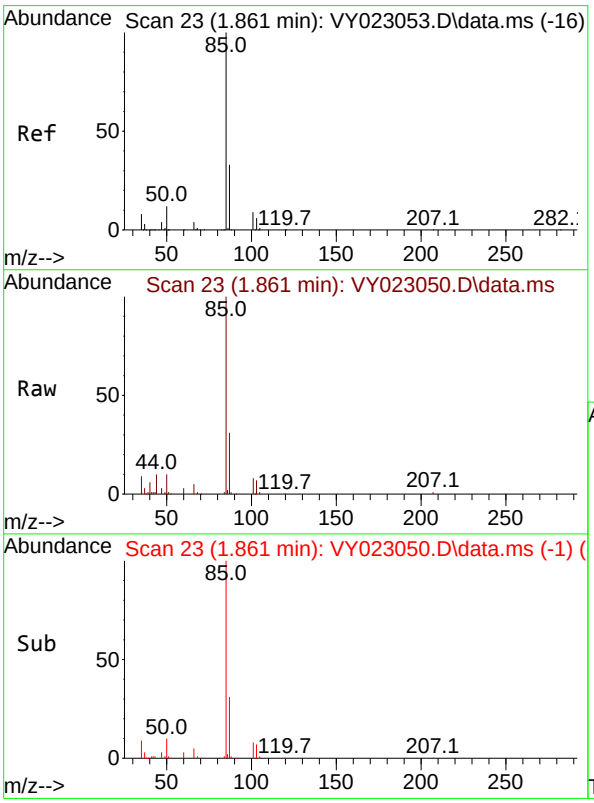
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 51.5 | 42.8 | 64.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

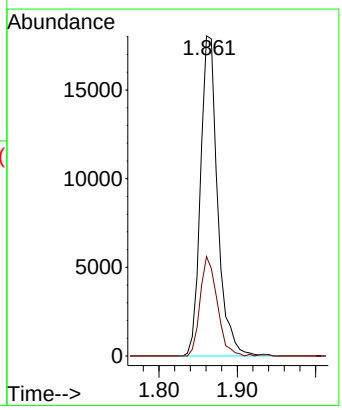
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

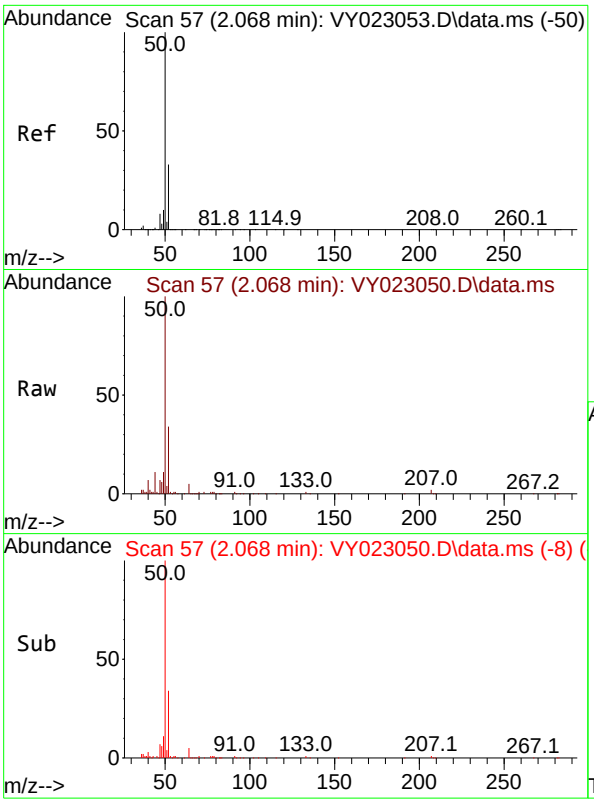



#2
Dichlorodifluoromethane
Concen: 5.969 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 85 Resp: 27351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.0 | 16.6 | 49.8 |

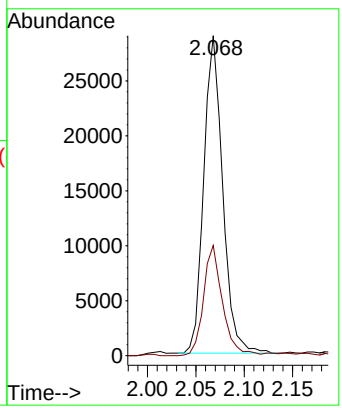





#3
Chloromethane
Concen: 5.291 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 50 Resp: 3926

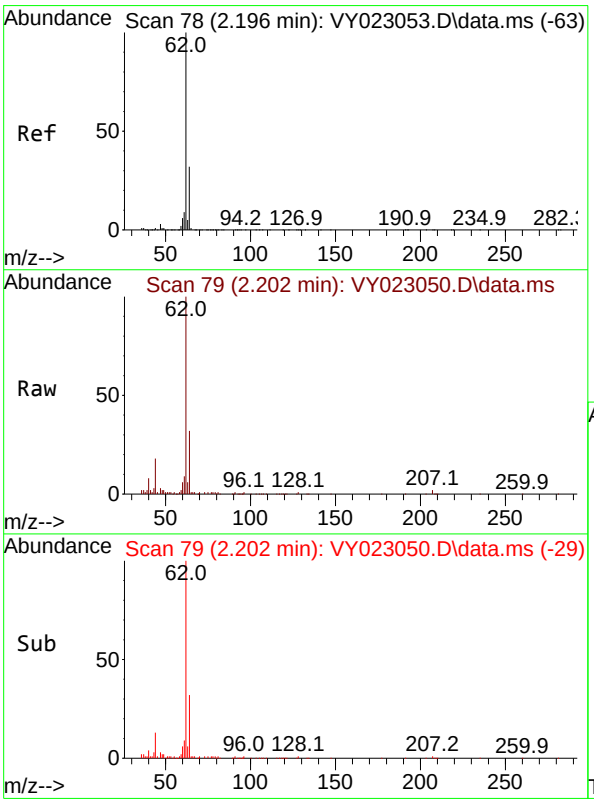
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 34.7 | 26.7 | 40.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

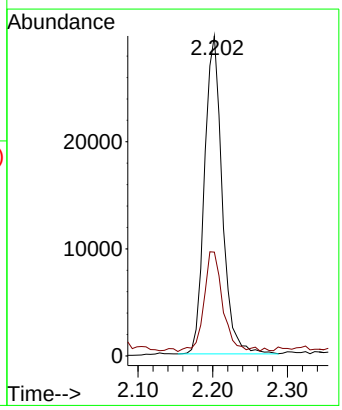
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

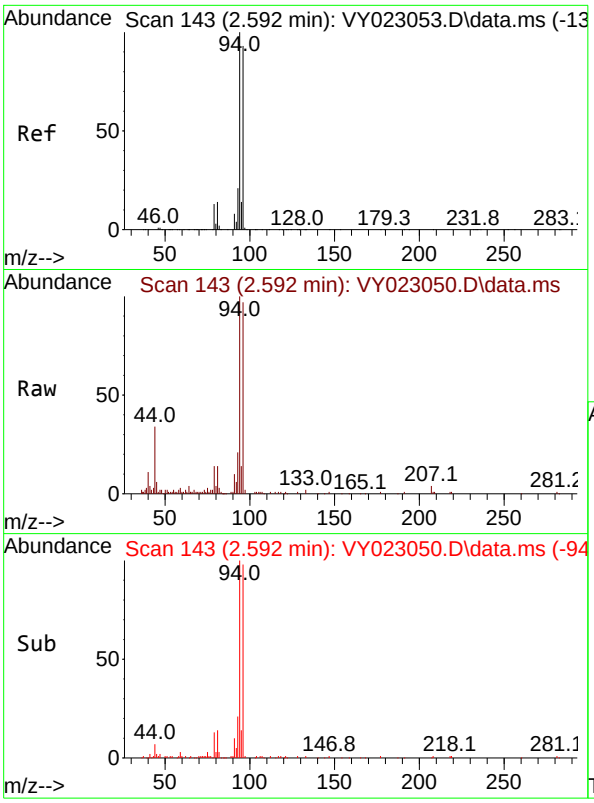



#4
Vinyl Chloride
Concen: 5.312 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 62 Resp: 48736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.3 | 25.4 | 38.0 |

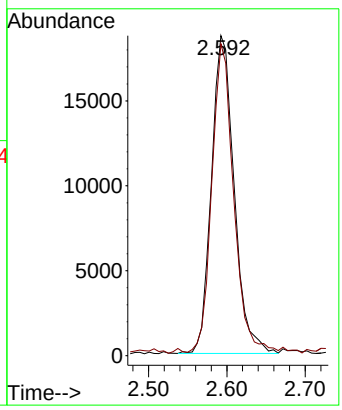





#5
Bromomethane
Concen: 5.513 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 94 Resp: 3777

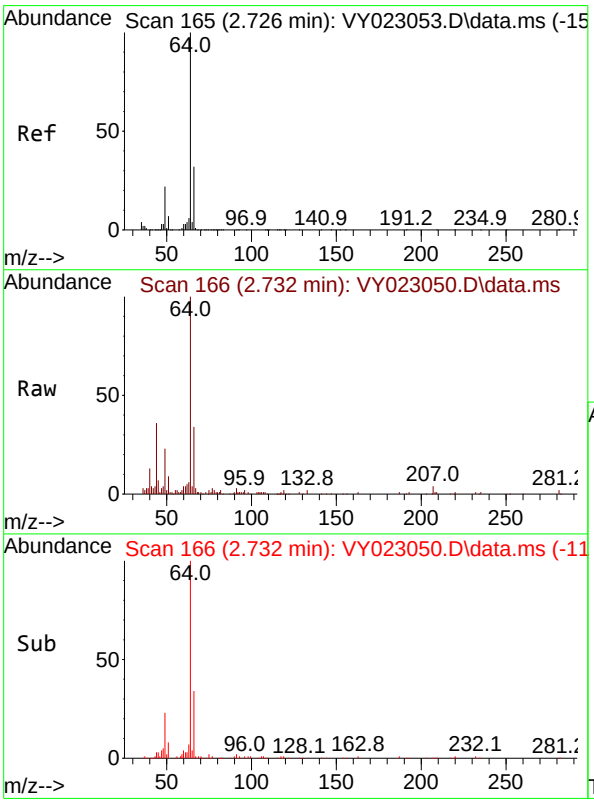
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 96.5 | 74.6 | 112.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

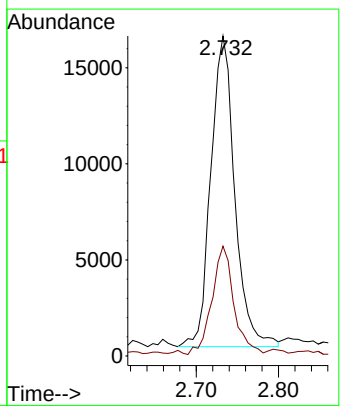
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

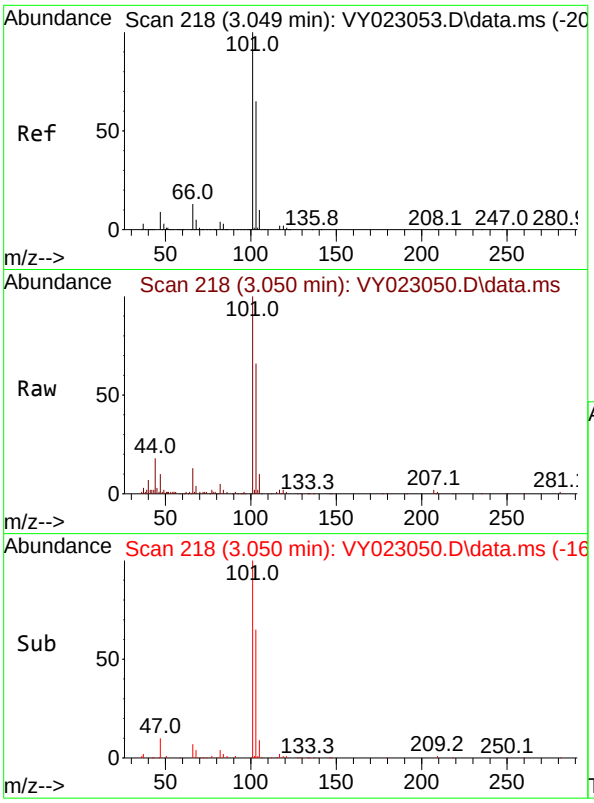



#6
Chloroethane
Concen: 5.380 ug/l
RT: 2.732 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 64 Resp: 32816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 33.5 | 25.8 | 38.6 |

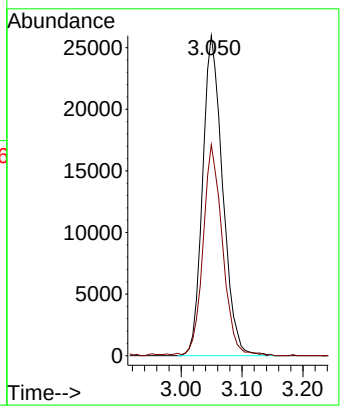





#7
Trichlorofluoromethane
Concen: 5.328 ug/l
RT: 3.050 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:101 Resp: 5943

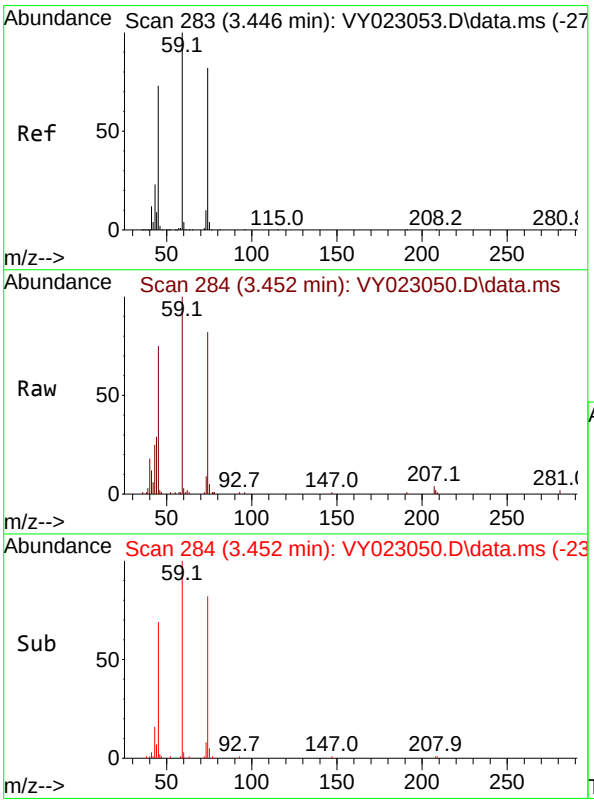
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.9 | 51.9 | 77.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

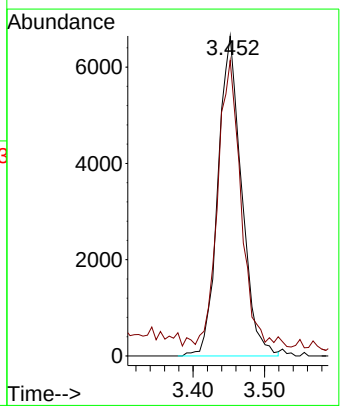
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

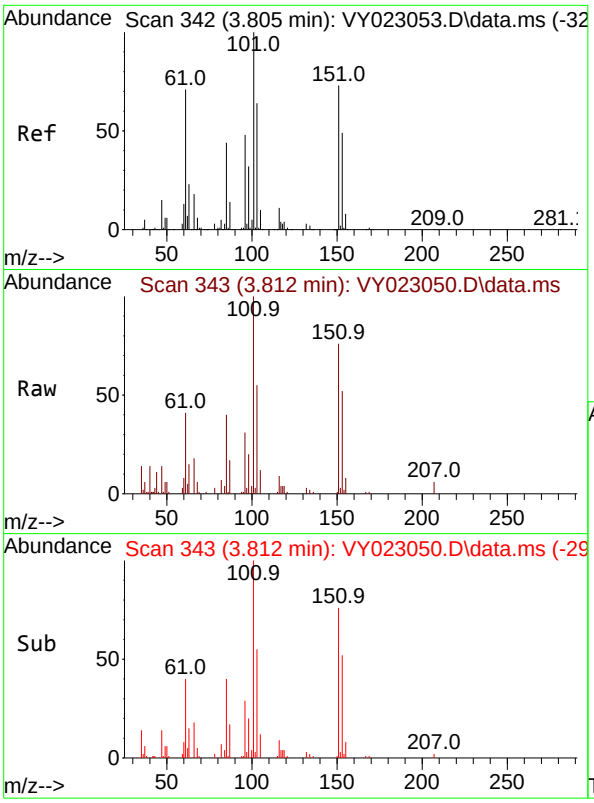



#8
Diethyl Ether
Concen: 5.160 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 74 Resp: 15231

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 88.2 | 44.4 | 133.2 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.322 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

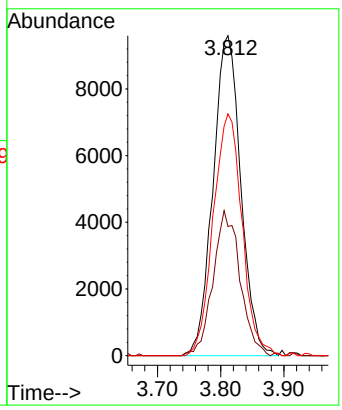
Tgt Ion:101 Resp: 2929

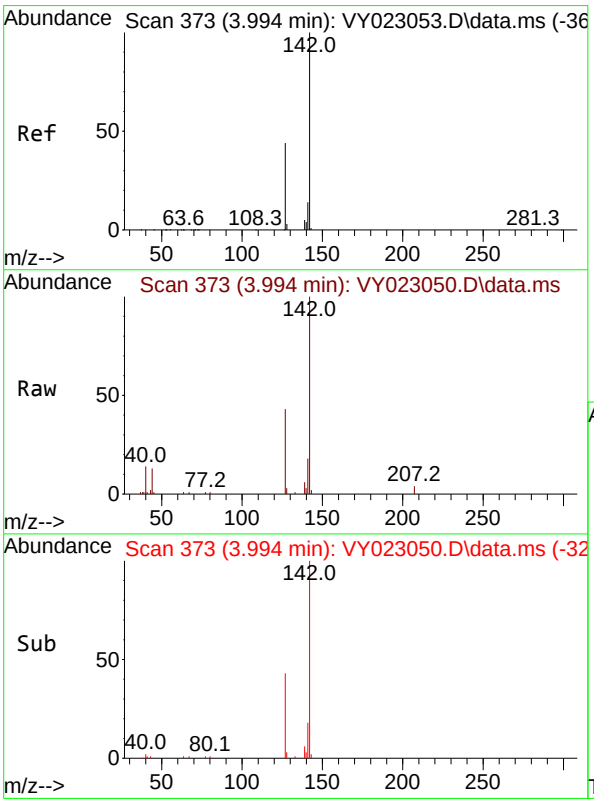
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 44.1 | 36.3 | 54.5 |
| 151 | 78.2 | 61.5 | 92.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

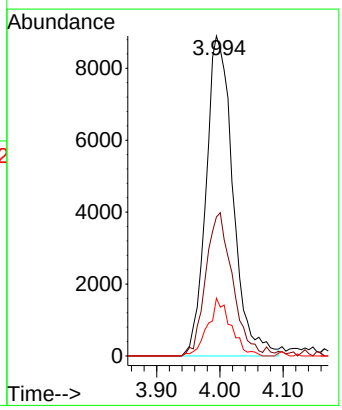


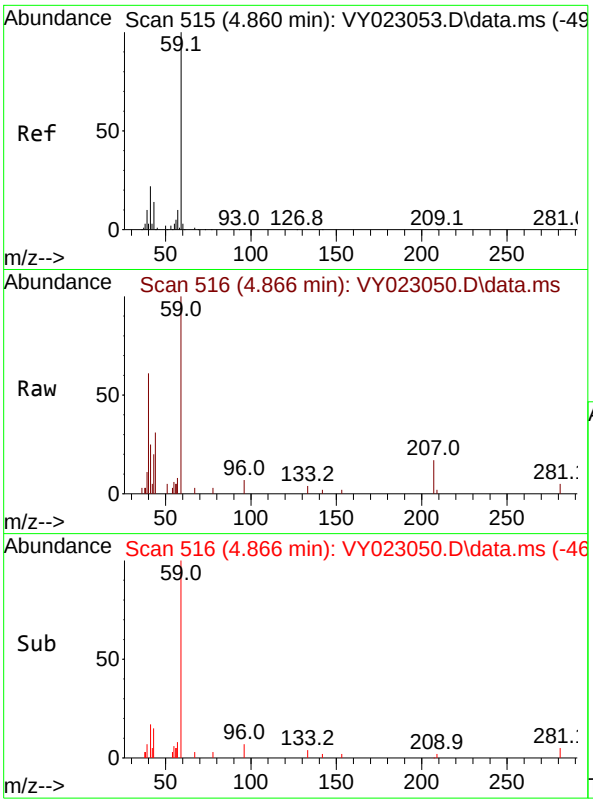




#10
Methyl Iodide
Concen: 4.424 ug/l
RT: 3.994 min Scan# 373
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:142 Resp: 26272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 44.6 | 34.9 | 52.3 |
| 141 | 15.6 | 11.3 | 16.9 |

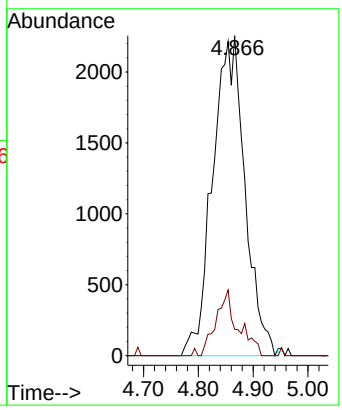





#11
Tert butyl alcohol
Concen: 25.147 ug/l
RT: 4.866 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 59 Resp: 921

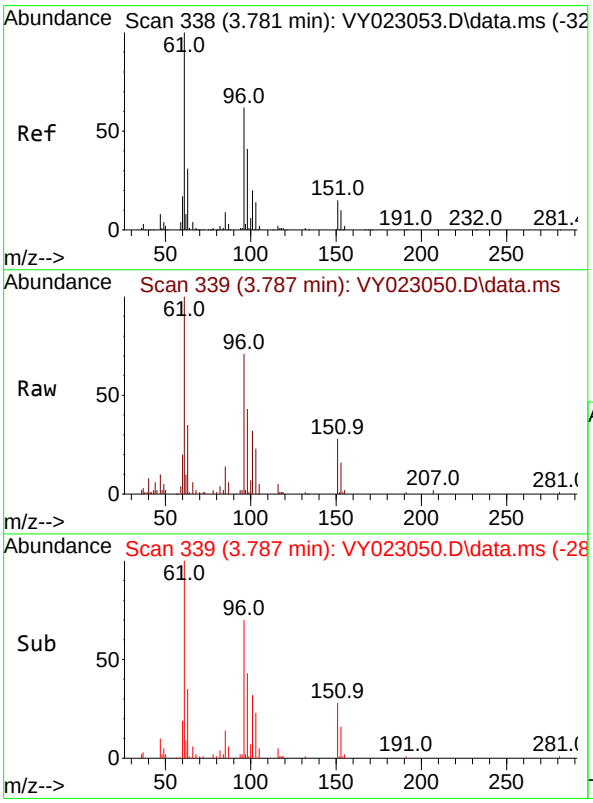
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 13.9 | 8.6 | 13.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

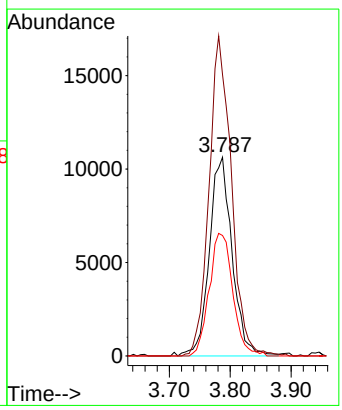
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

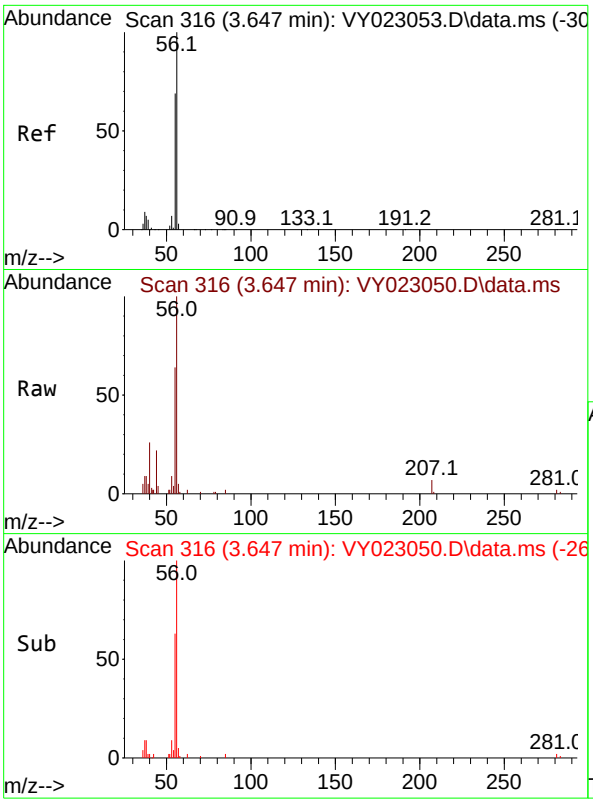



#12
1,1-Dichloroethene
Concen: 5.108 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 96 Resp: 27635

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 141.6 | 129.4 | 194.2 |
| 98 | 60.6 | 52.8 | 79.2 |

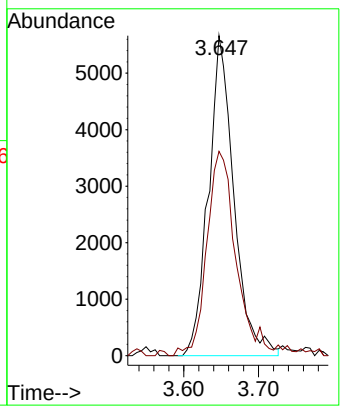





#13
Acrolein
Concen: 24.941 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 56 Resp: 1339

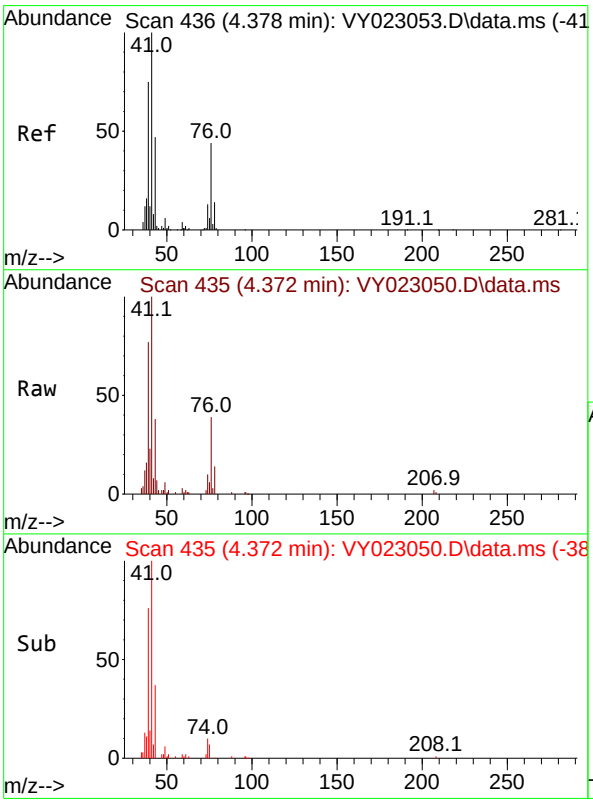
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 72.8 | 55.2 | 82.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

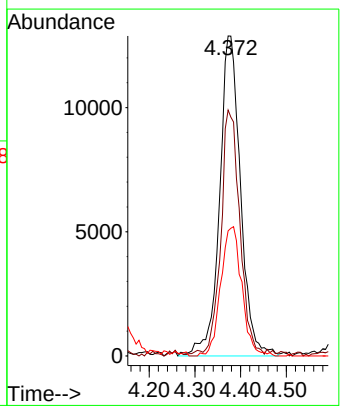
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

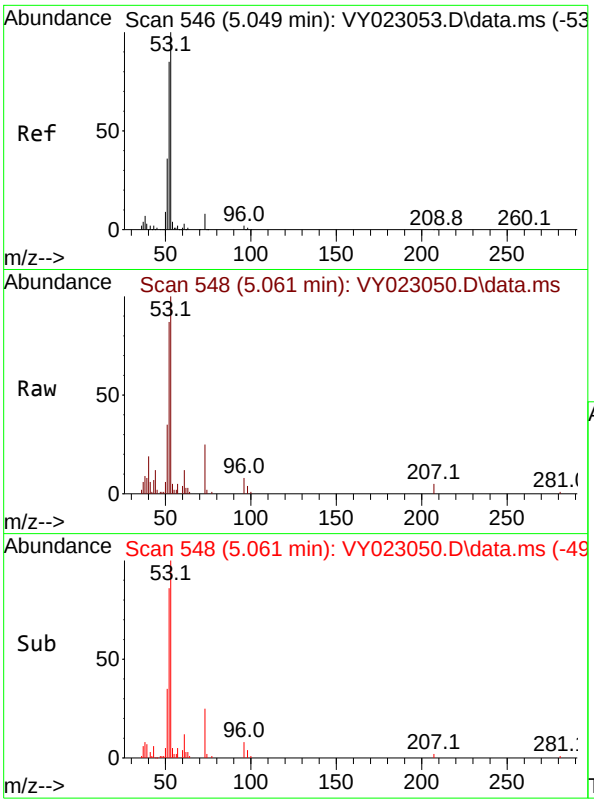



#14
Allyl chloride
Concen: 5.176 ug/l
RT: 4.372 min Scan# 435
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 41 Resp: 41201

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 67.7 | 59.8 | 89.6 |
| 76 | 40.4 | 33.7 | 50.5 |

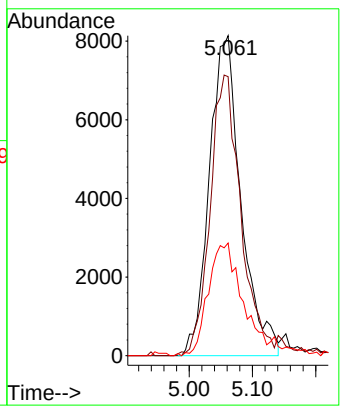





#15
Acrylonitrile
Concen: 23.547 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.012 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 53 Resp: 2825

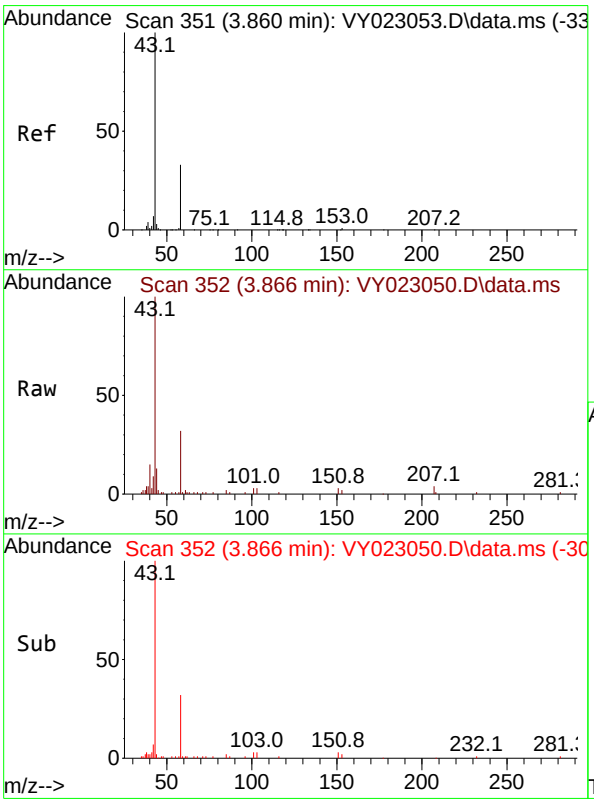
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 84.9 | 65.3 | 97.9 |
| 51 | 40.9 | 29.5 | 44.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

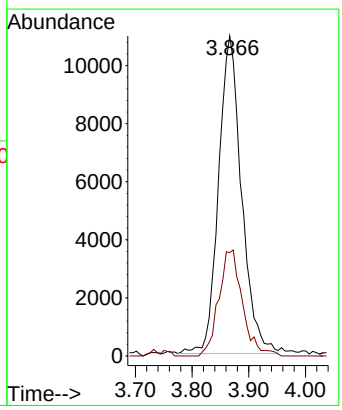
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

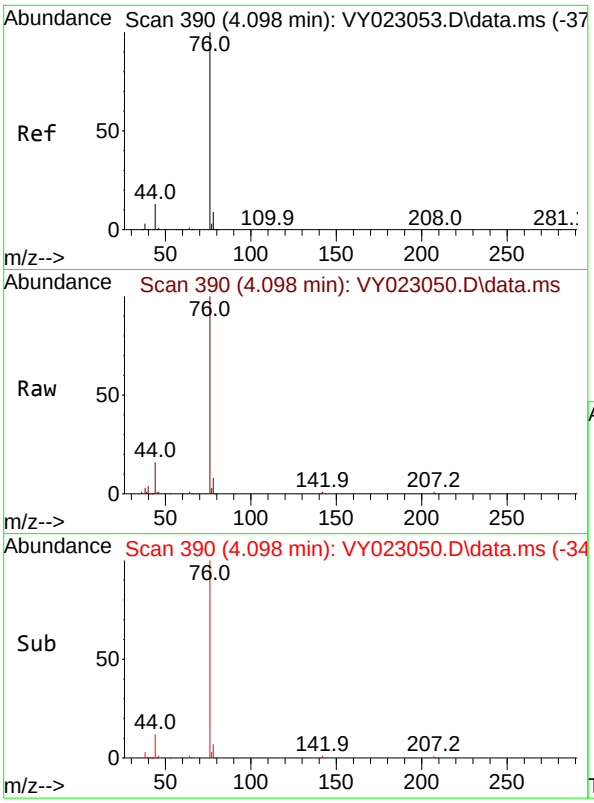



#16
Acetone
Concen: 26.574 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 43 Resp: 30803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.5 | 27.1 | 40.7 |






#17
Carbon Disulfide
Concen: 5.270 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

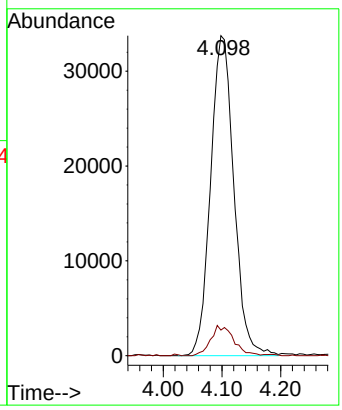
Tgt Ion: 76 Resp: 9296

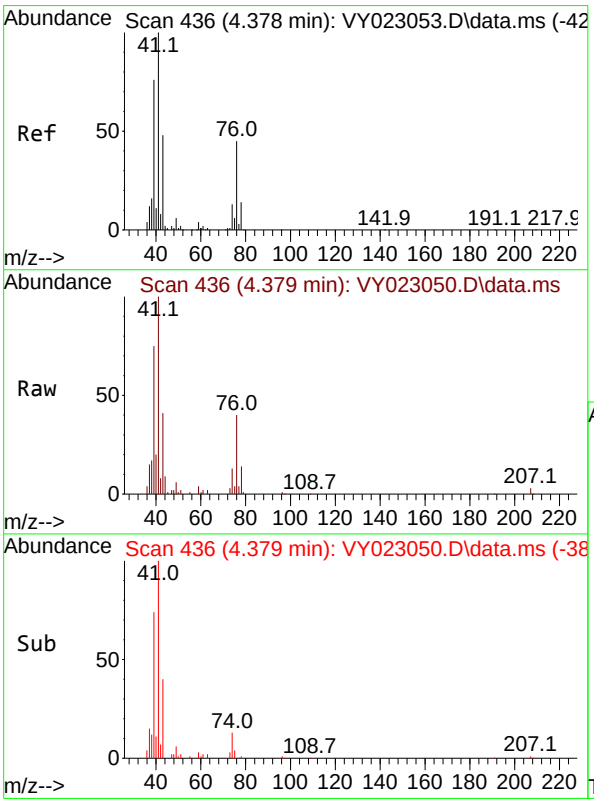
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 7.8 | 7.4 | 11.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

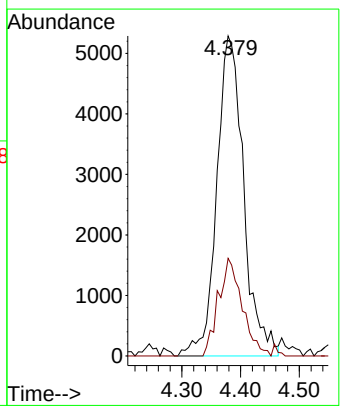


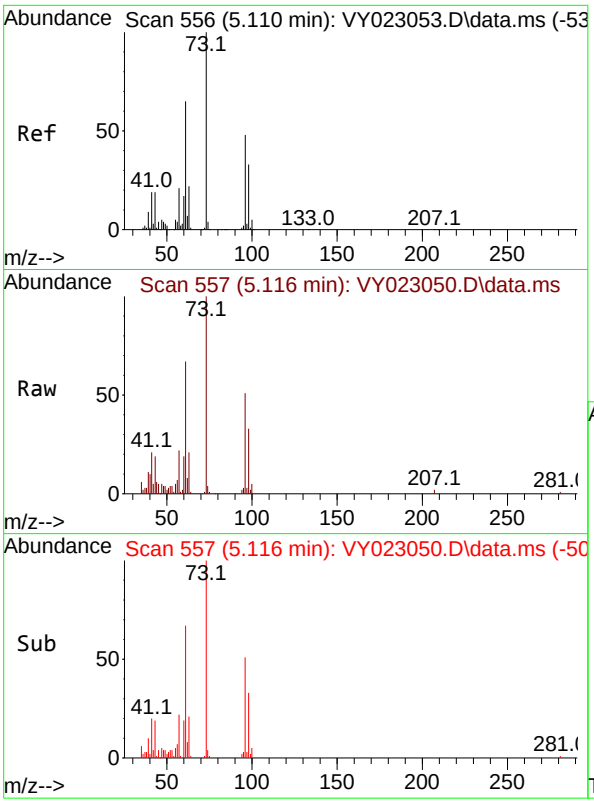




#18
Methyl Acetate
Concen: 4.872 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 43 Resp: 16806

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 26.9 | 21.2 | 31.8 |

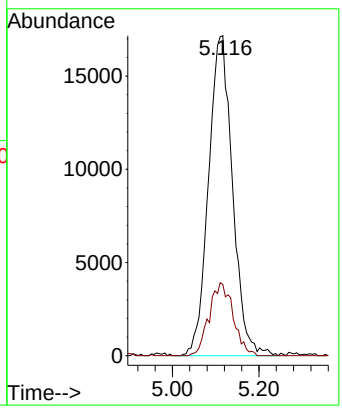





#19
Methyl tert-butyl Ether
Concen: 4.730 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 73 Resp: 6630

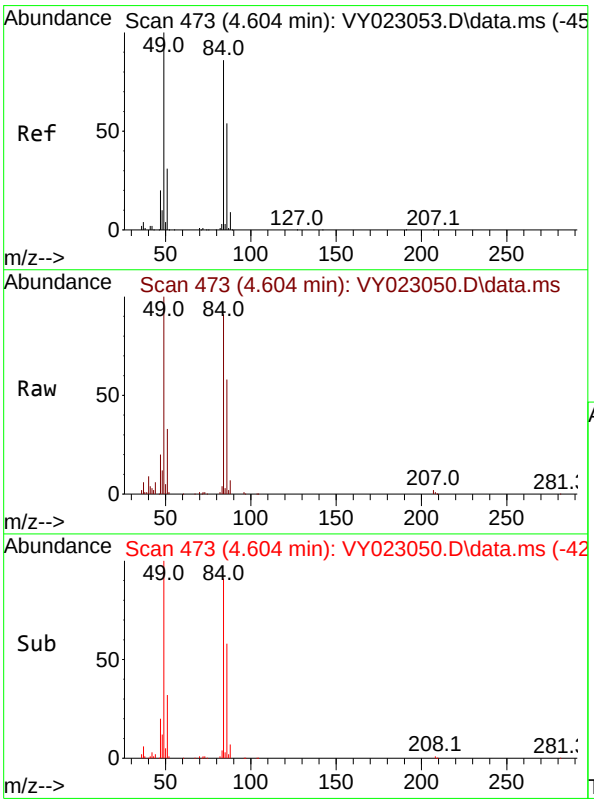
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.3 | 17.1 | 25.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

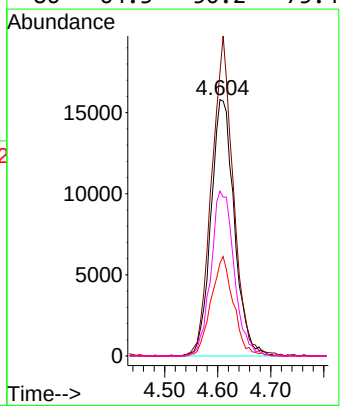
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

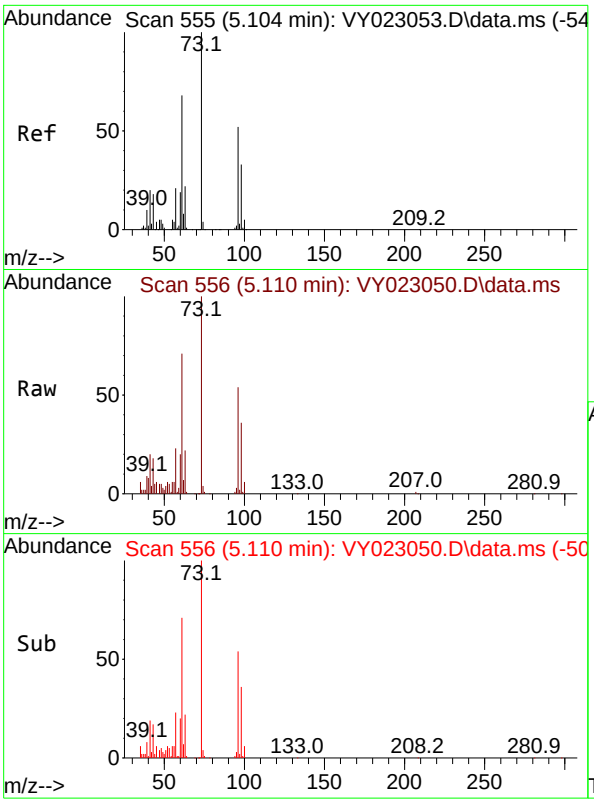



#20
Methylene Chloride
Concen: 5.657 ug/l
RT: 4.604 min Scan# 473
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 84 Resp: 48322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 110.5 | 93.0 | 139.6 |
| 51 | 36.2 | 29.0 | 43.4 |
| 86 | 64.3 | 50.2 | 75.4 |

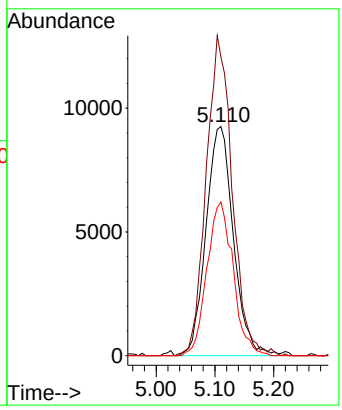





#21
trans-1,2-Dichloroethene
Concen: 4.938 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 96 Resp: 3002

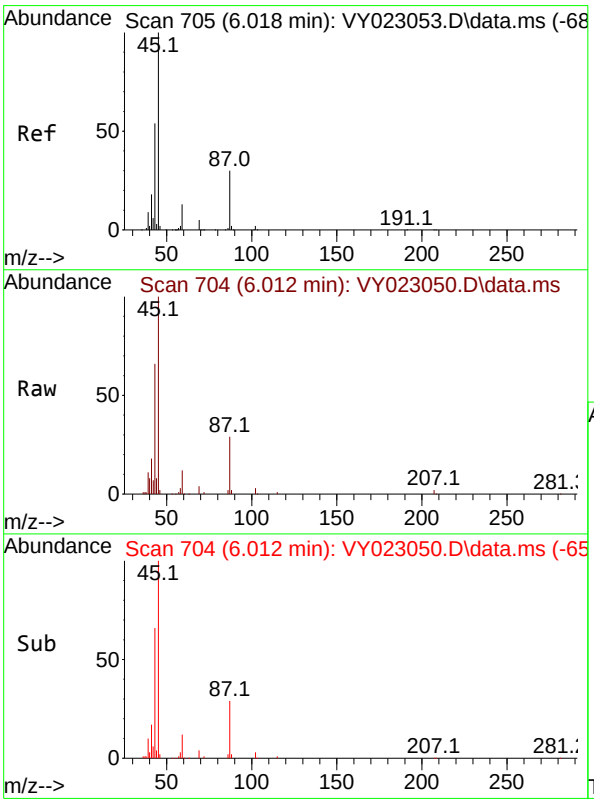
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 129.7 | 104.8 | 157.2 |
| 98 | 67.2 | 50.1 | 75.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

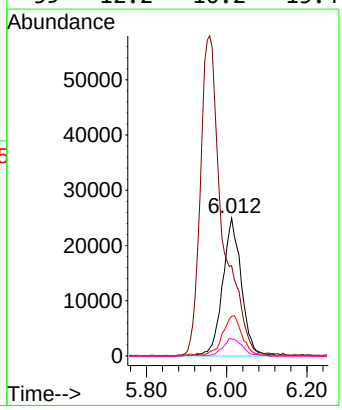
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

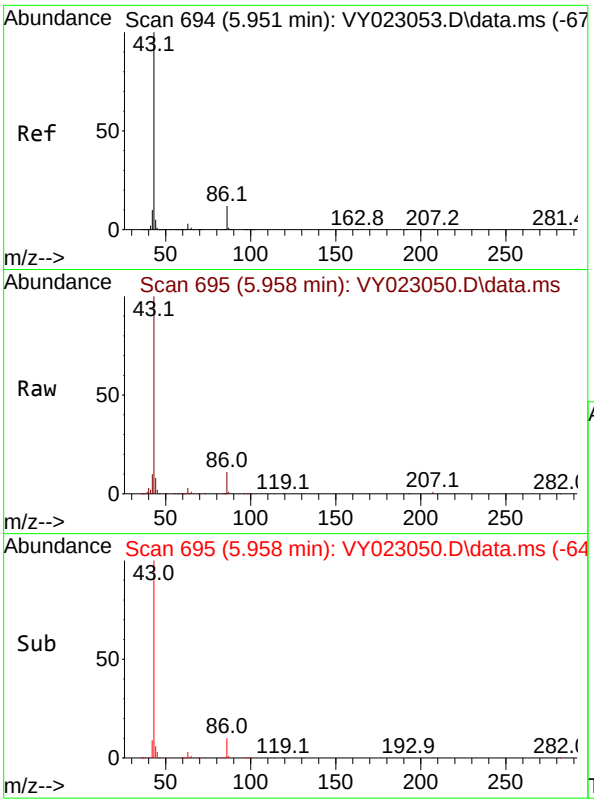



#22
Diisopropyl ether
Concen: 4.679 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 45 Resp: 80938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 64.9 | 43.4 | 65.0 |
| 87 | 28.9 | 24.4 | 36.6 |
| 59 | 12.2 | 10.2 | 15.4 |






#23
Vinyl Acetate
Concen: 23.196 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

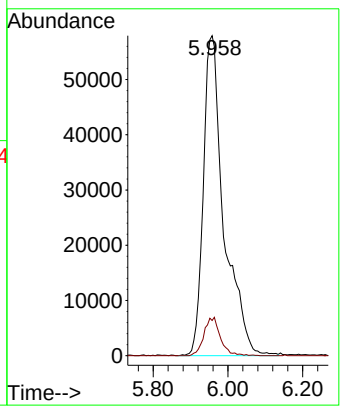
Tgt Ion: 43 Resp: 22186

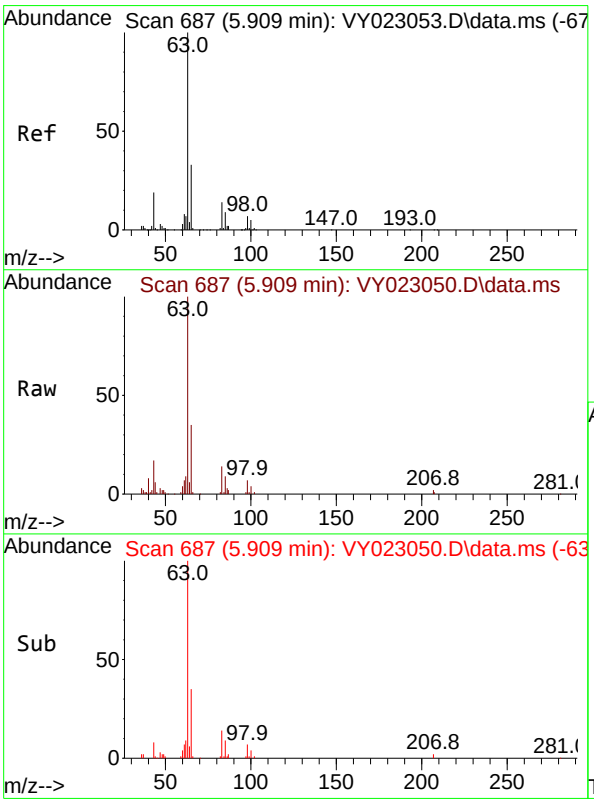
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.0 | 9.6 | 14.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

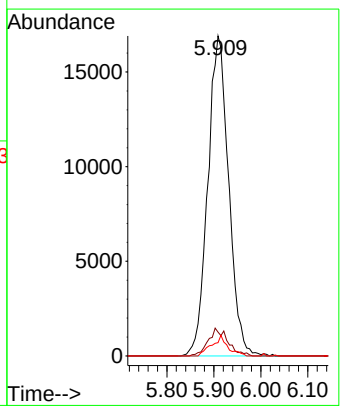


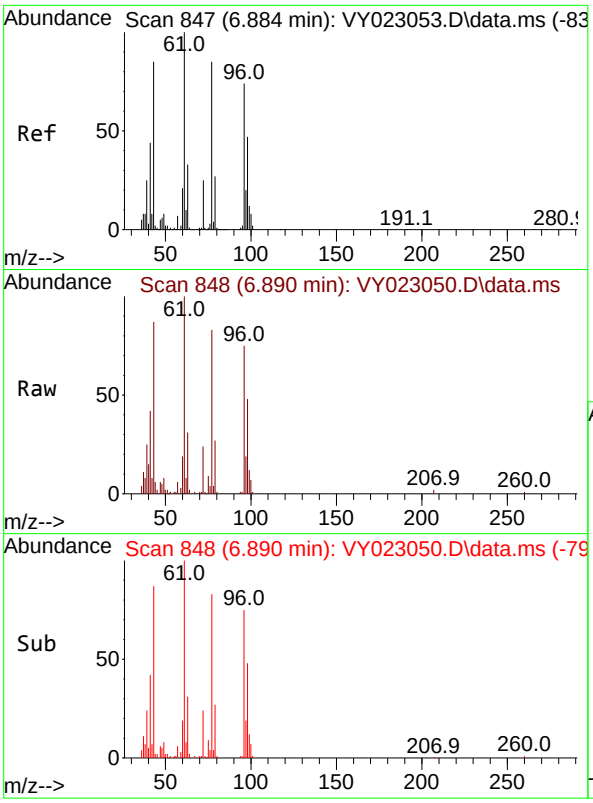




#24
1,1-Dichloroethane
Concen: 4.931 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 63 Resp: 52152

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.4 | 3.5 | 10.6 |
| 100 | 4.1 | 2.4 | 7.1 |






#25
2-Butanone
Concen: 23.991 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

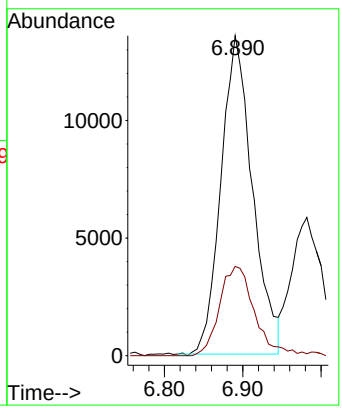
Tgt Ion: 43 Resp: 3782

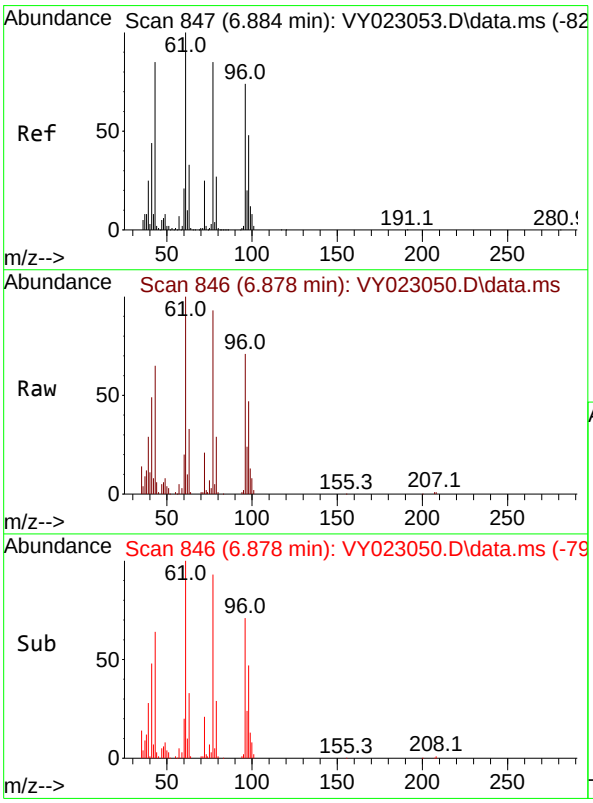
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 28.0 | 23.5 | 35.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

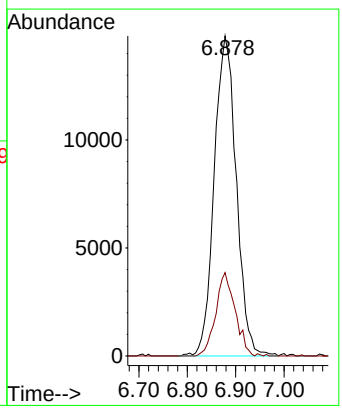


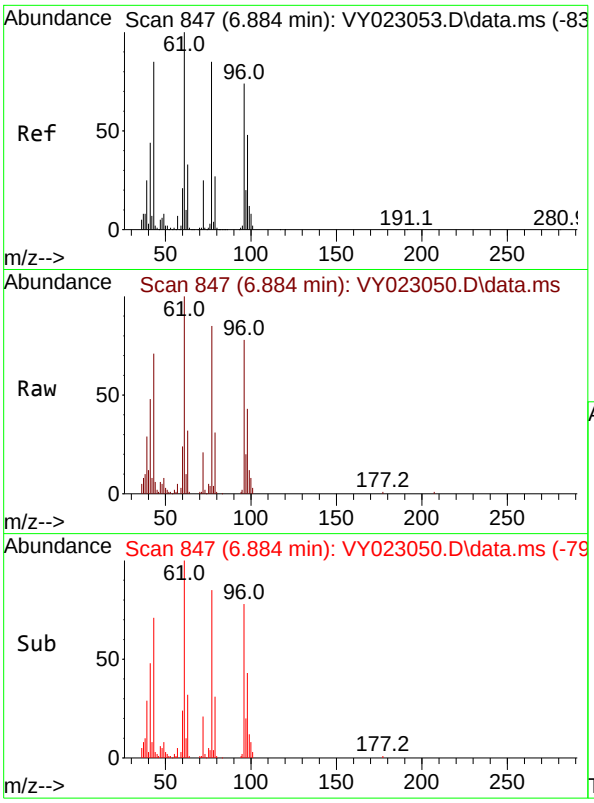




#26
2,2-Dichloropropane
Concen: 5.147 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 77 Resp: 46964

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.8 | 11.6 | 34.8 |

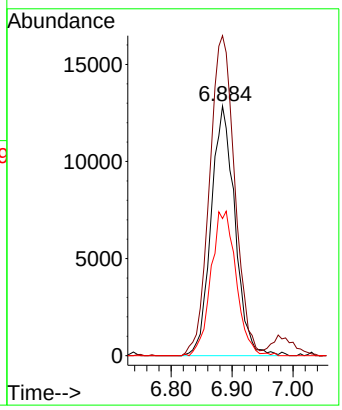





#27
cis-1,2-Dichloroethene
Concen: 4.962 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 96 Resp: 3487

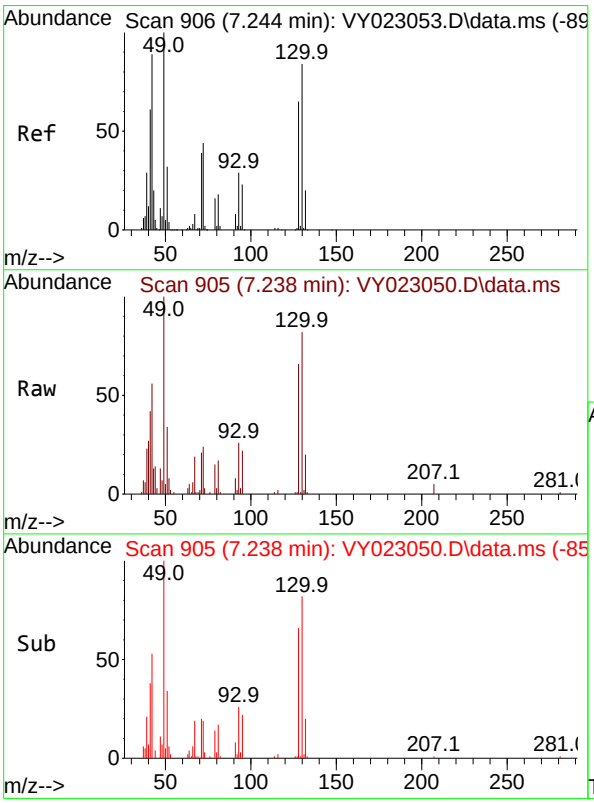
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 135.9 | 0.0 | 278.6 |
| 98 | 61.4 | 0.0 | 130.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

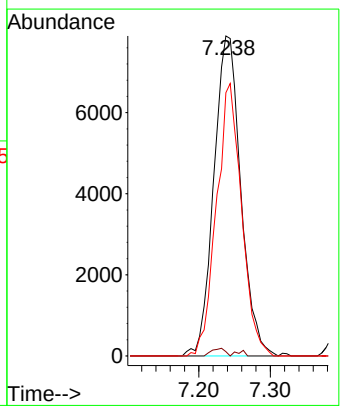
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

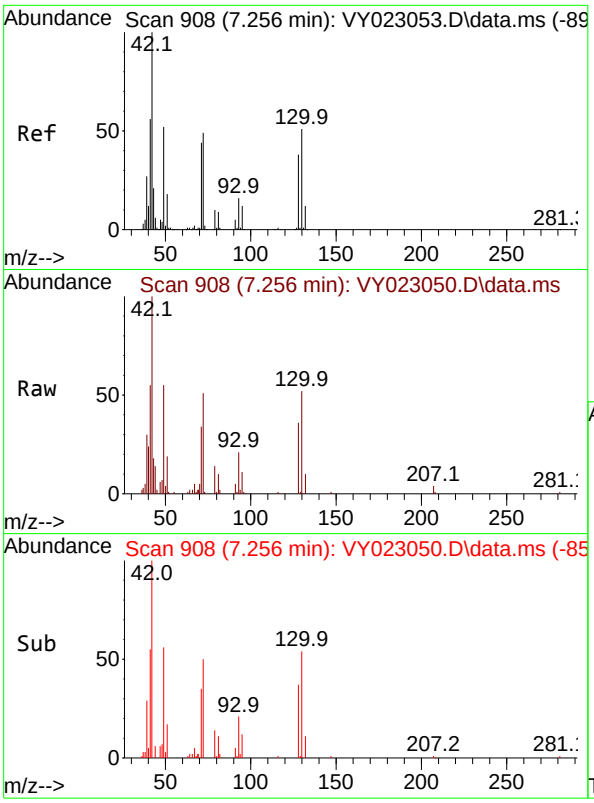



#28
Bromochloromethane
Concen: 4.913 ug/l
RT: 7.238 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 49 Resp: 20615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.2 | 0.0 | 4.2 |
| 130 | 79.7 | 66.4 | 99.6 |

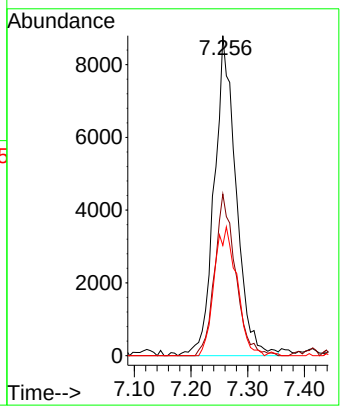





#29
Tetrahydrofuran
Concen: 24.035 ug/l
RT: 7.256 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 42 Resp: 2348

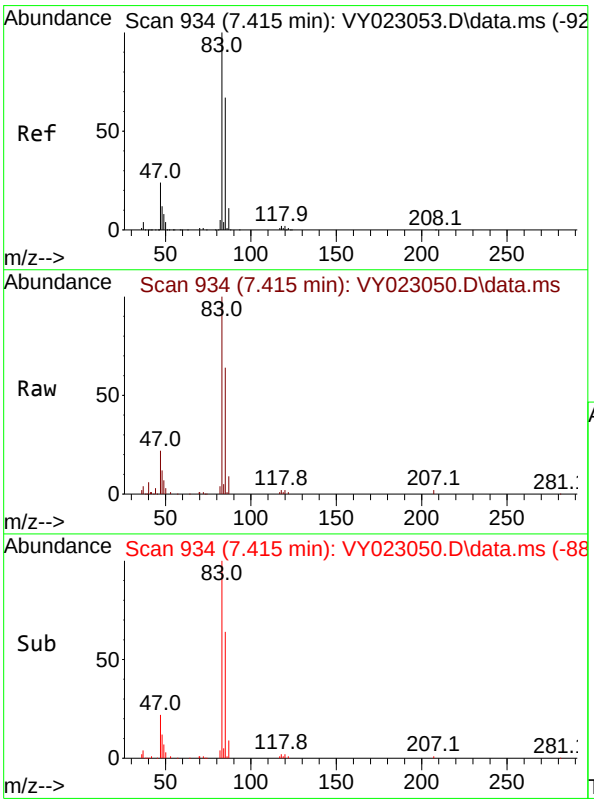
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 48.1 | 39.4 | 59.2 |
| 71 | 41.8 | 36.5 | 54.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

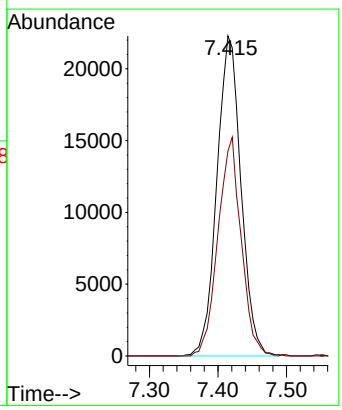
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

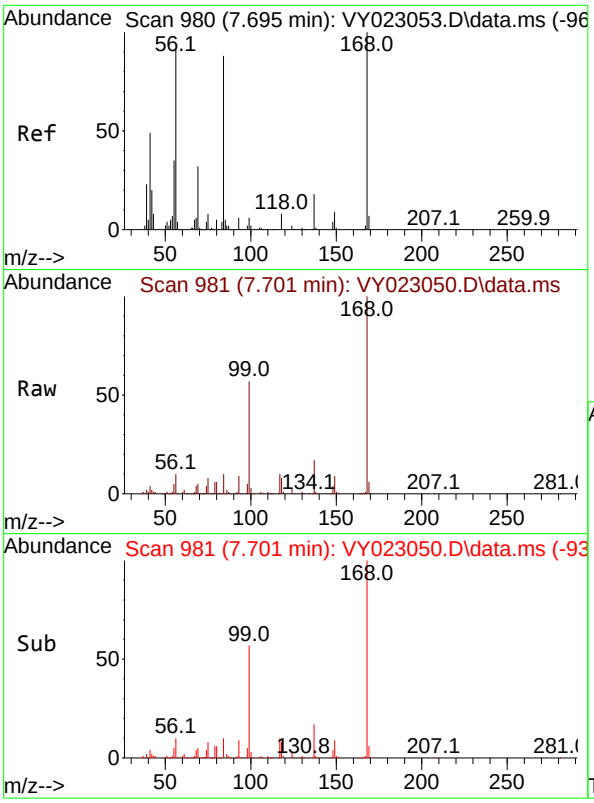



#30
Chloroform
Concen: 4.987 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 83 Resp: 54392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.0 | 53.8 | 80.8 |






#31
Cyclohexane
Concen: 5.856 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

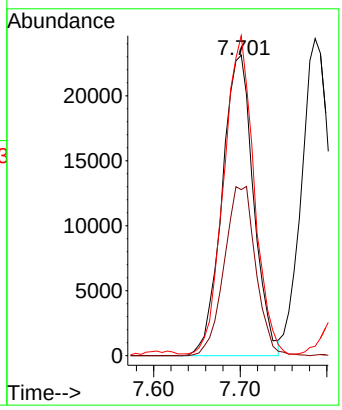
Tgt Ion: 56 Resp: 5836

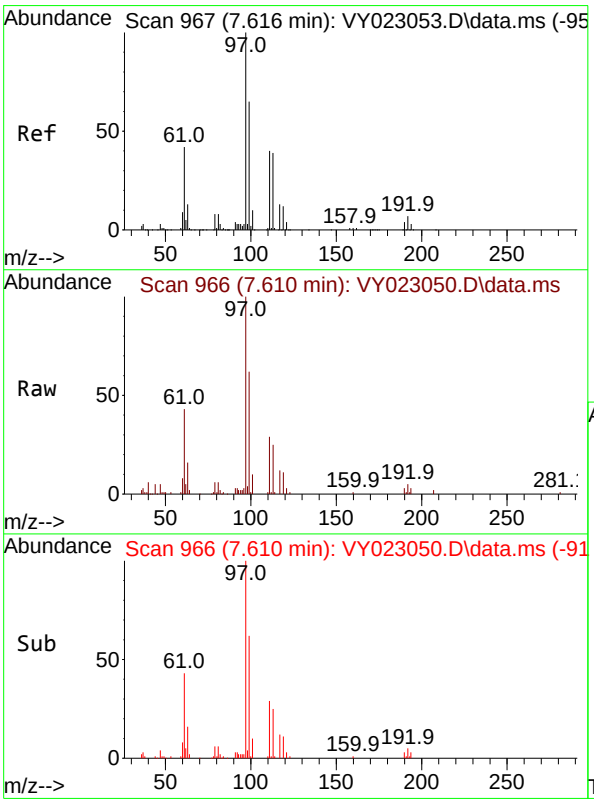
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 55.3 | 28.2 | 42.2 |
| 84 | 105.9 | 76.6 | 114.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

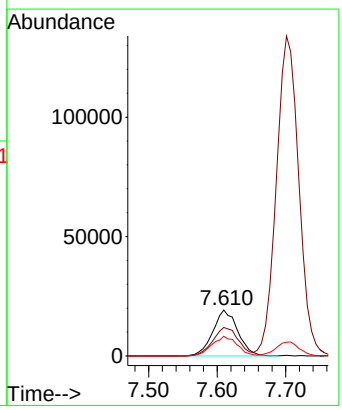


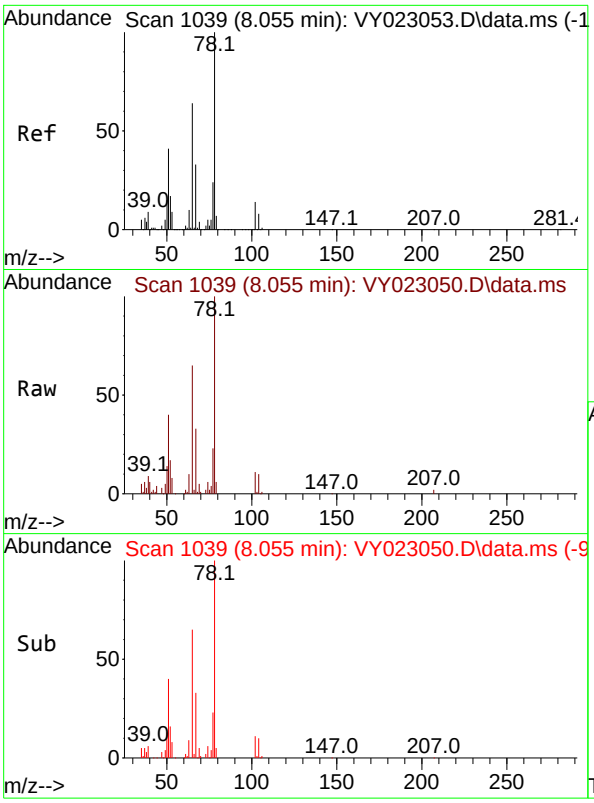




#32
1,1,1-Trichloroethane
Concen: 5.003 ug/l
RT: 7.610 min Scan# 966
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 97 Resp: 48413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.8 | 51.6 | 77.4 |
| 61 | 43.4 | 34.2 | 51.2 |

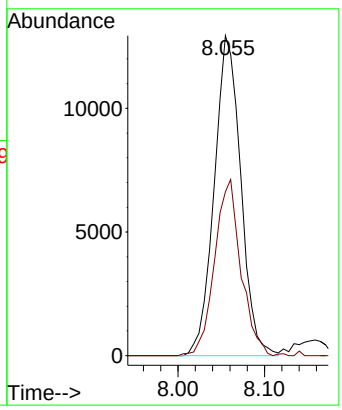





#33
1,2-Dichloroethane-d4
Concen: 5.152 ug/l
RT: 8.055 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 65 Resp: 2756

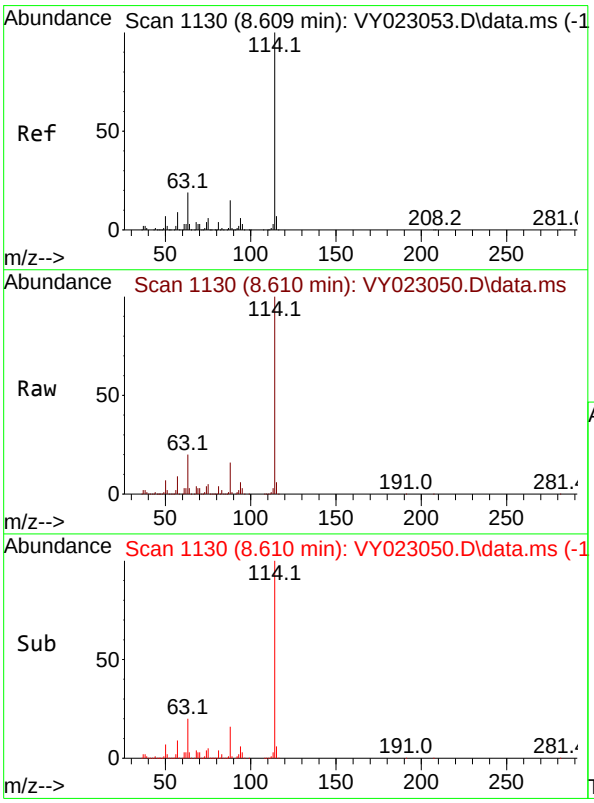
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 54.5 | 0.0 | 106.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

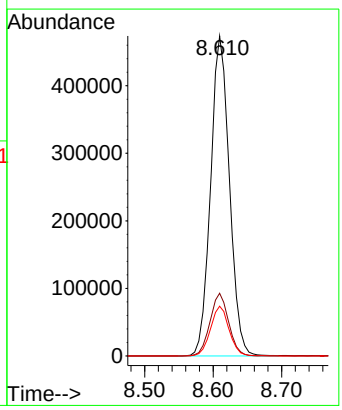
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

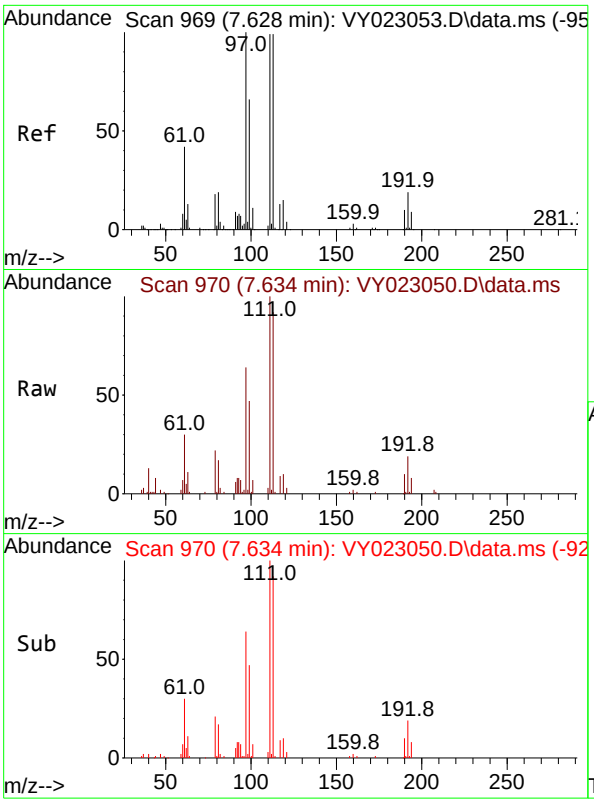



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:114 Resp: 904866

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.6 | 0.0 | 38.4 |
| 88 | 15.5 | 0.0 | 30.0 |

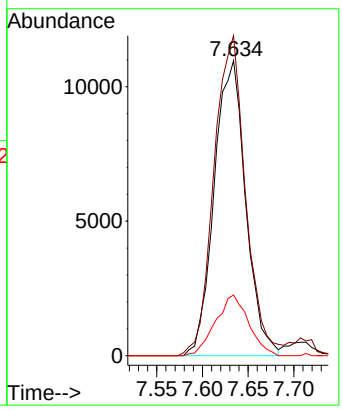





#35
Dibromofluoromethane
Concen: 4.851 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:113 Resp: 2626

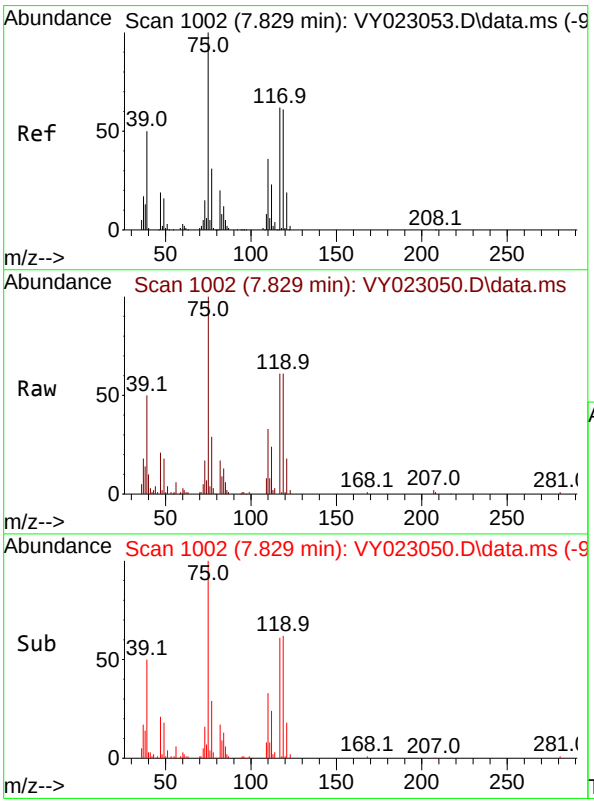
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 108.8 | 81.1 | 121.7 |
| 192 | 21.6 | 16.2 | 24.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

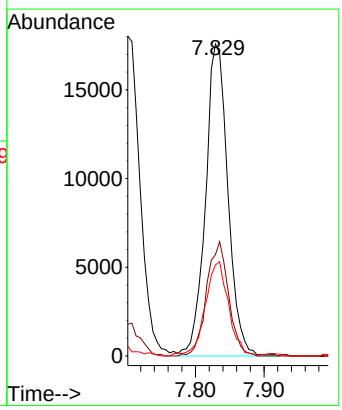
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

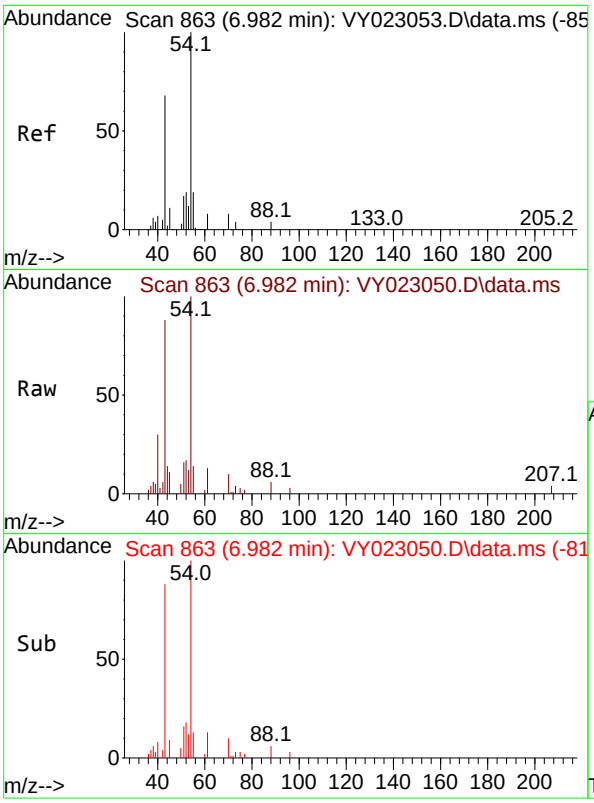



#36
1,1-Dichloropropene
Concen: 4.968 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 75 Resp: 39978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.9 | 18.1 | 54.4 |
| 77 | 31.4 | 24.6 | 37.0 |






#37
Ethyl Acetate
Concen: 4.461 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

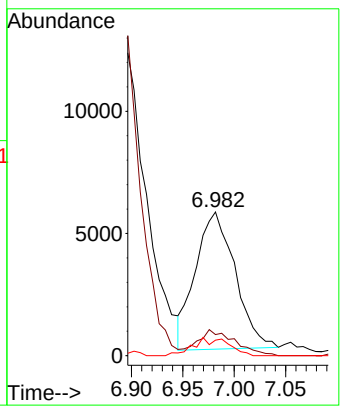
Tgt Ion: 43 Resp: 1508

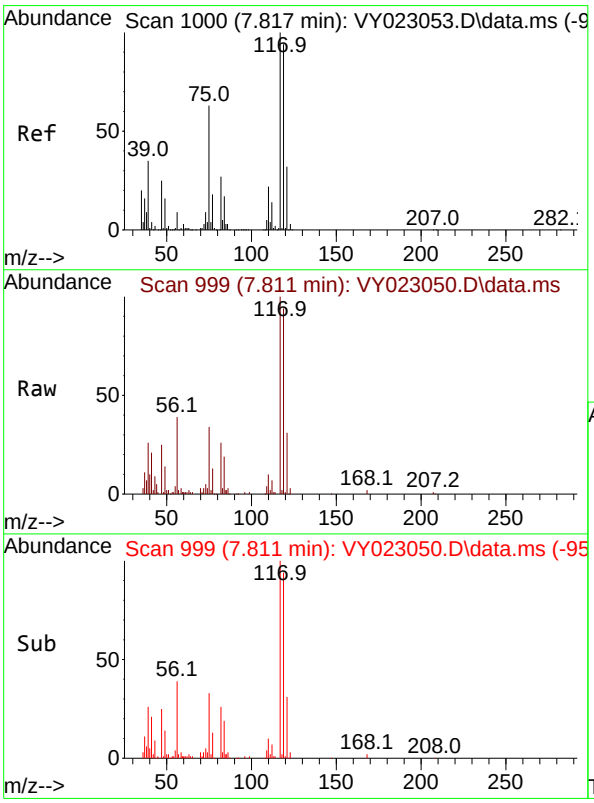
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 18.1 | 11.9 | 17.9# |
| 70 | 11.6 | 8.8 | 13.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

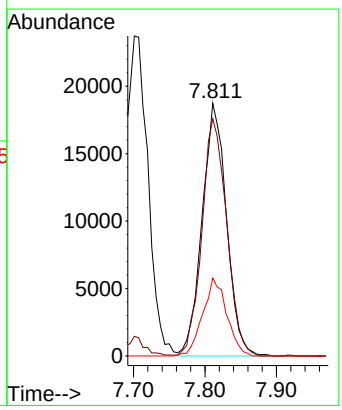


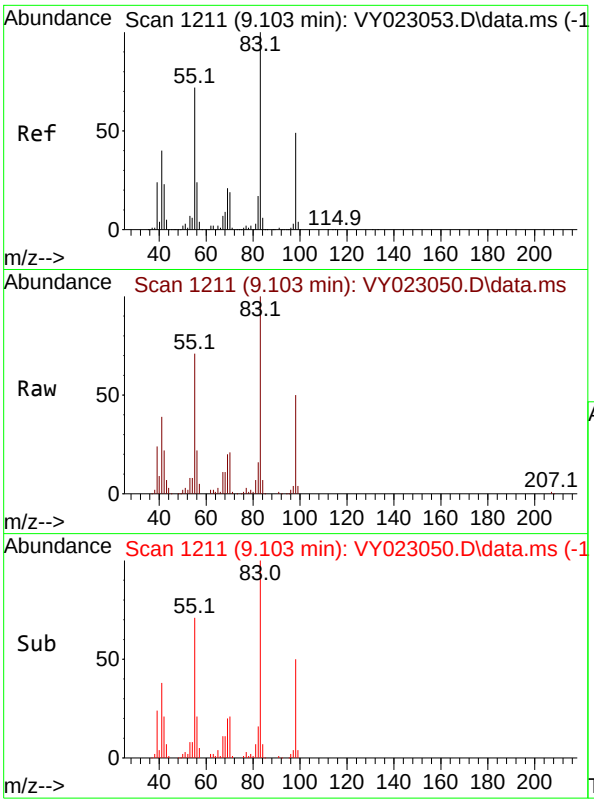




#38
Carbon Tetrachloride
Concen: 5.076 ug/l
RT: 7.811 min Scan# 999
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:117 Resp: 44360

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 93.9 | 75.6 | 113.4 |
| 121 | 30.8 | 25.8 | 38.8 |






#39
Methylcyclohexane
Concen: 4.901 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

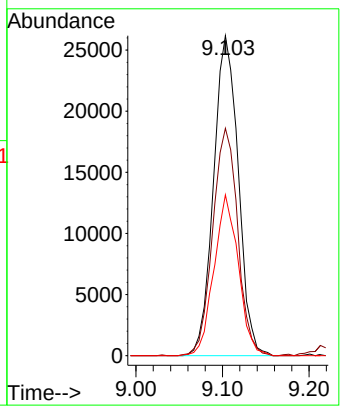
Tgt Ion: 83 Resp: 5193

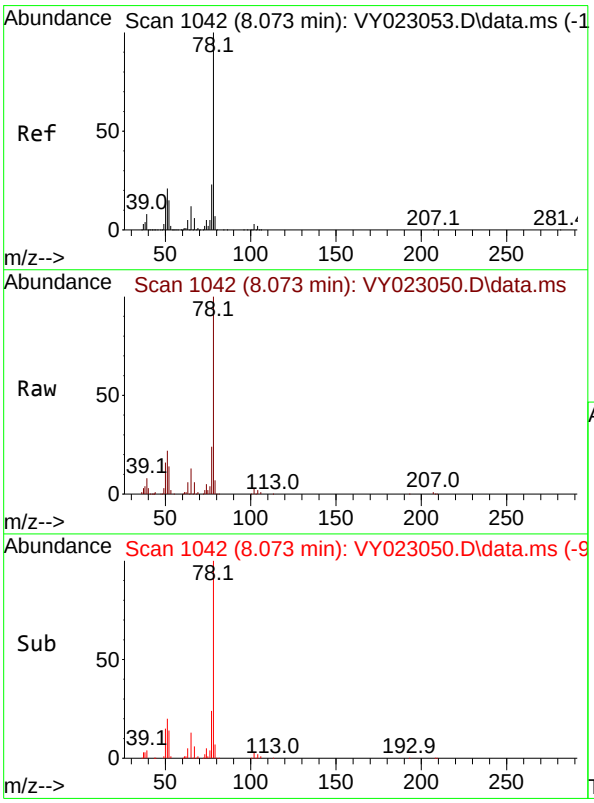
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 71.1 | 57.6 | 86.4 |
| 98 | 50.2 | 39.2 | 58.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

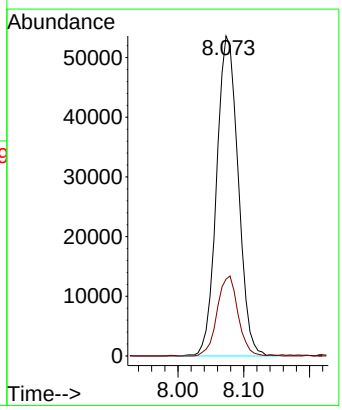


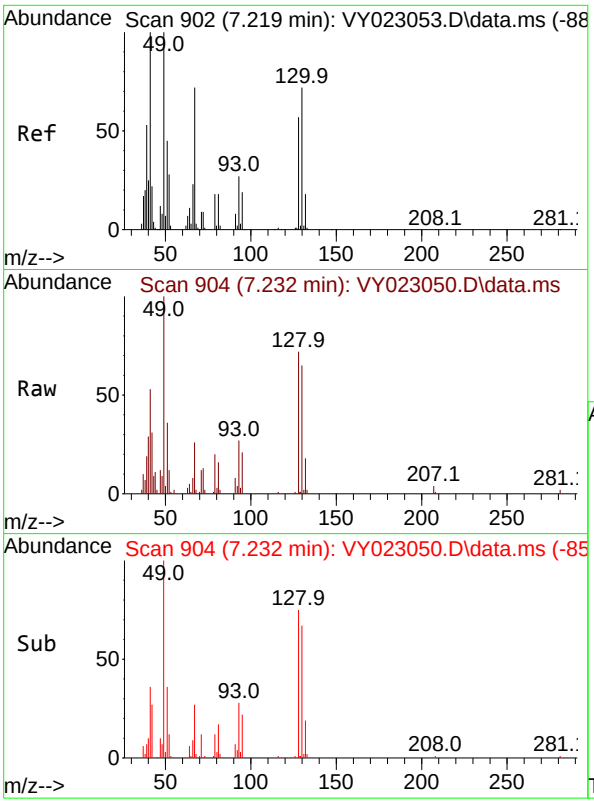




#40
Benzene
Concen: 4.939 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 78 Resp: 122482

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.0 | 18.6 | 28.0 |

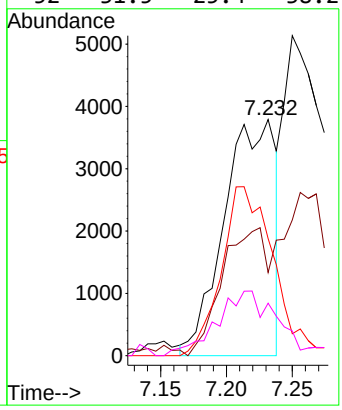





#41
Methacrylonitrile
Concen: 5.247 ug/l m
RT: 7.232 min Scan# 9
Delta R.T. 0.012 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 41 Resp: 1024

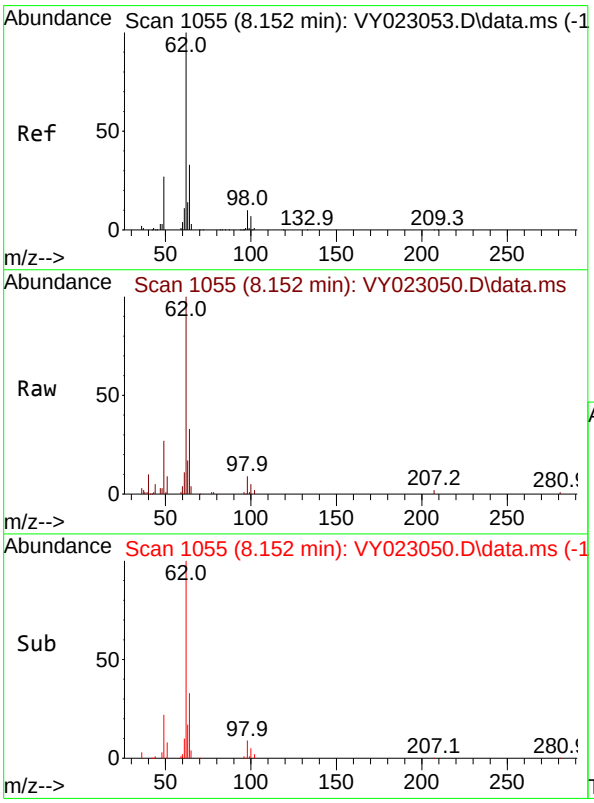
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 47.1 | 43.4 | 65.2 |
| 67 | 72.4 | 63.6 | 95.4 |
| 52 | 31.5 | 25.4 | 38.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

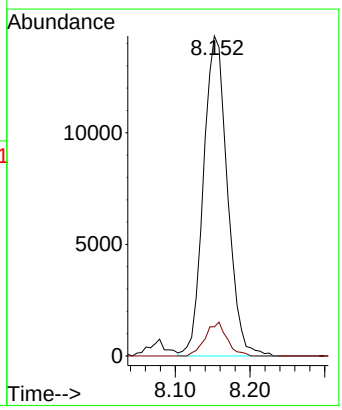
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

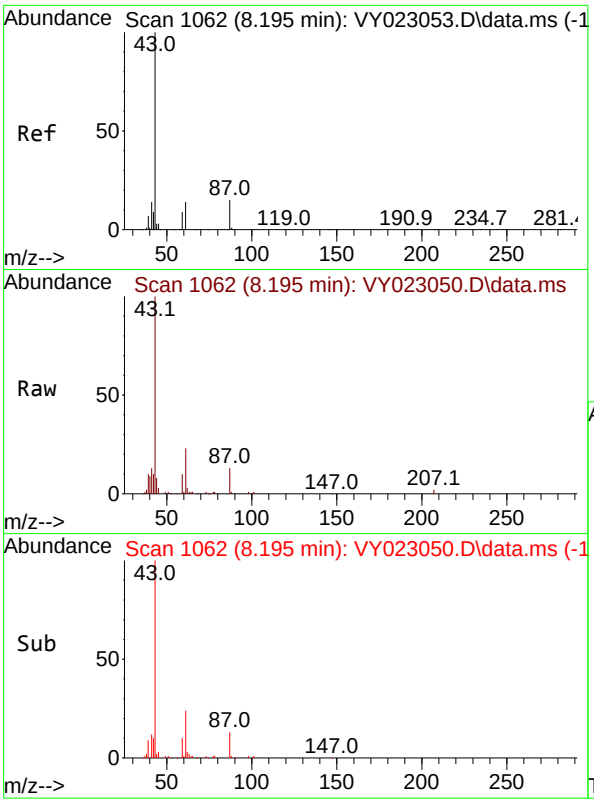



#42
1,2-Dichloroethane
Concen: 4.946 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 62 Resp: 31902

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.6 | 0.0 | 20.6 |






#43
Isopropyl Acetate
Concen: 4.668 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

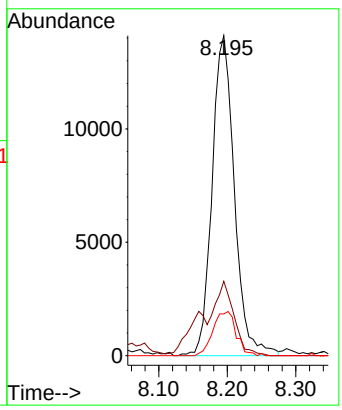
Tgt Ion: 43 Resp: 3189

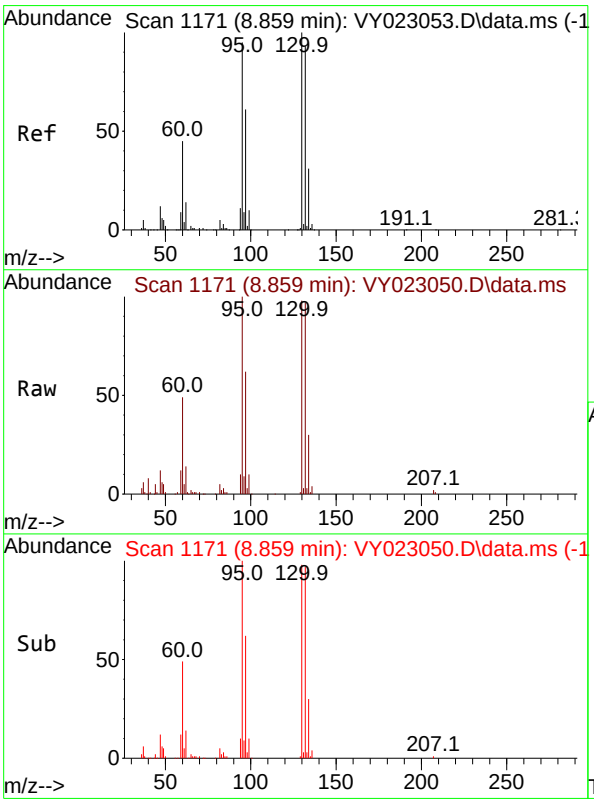
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 20.6 | 16.4 | 24.6 |
| 87 | 14.4 | 11.8 | 17.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

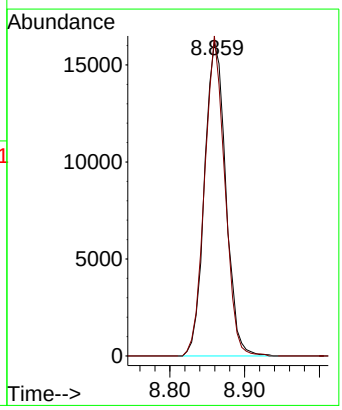


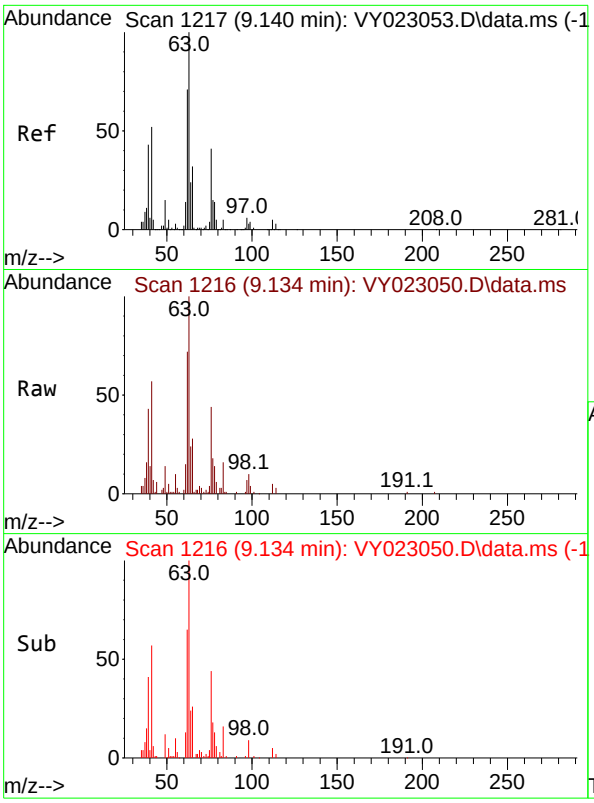




#44
Trichloroethene
Concen: 5.001 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:130 Resp: 32050

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 102.2 | 0.0 | 190.2 |






#45
1,2-Dichloropropane
Concen: 4.805 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

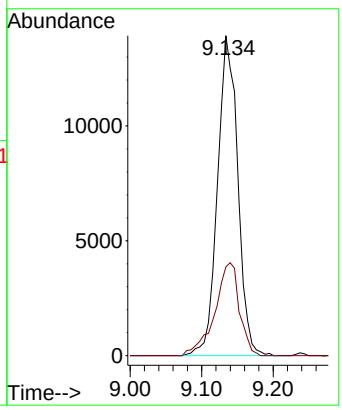
Tgt Ion: 63 Resp: 2741

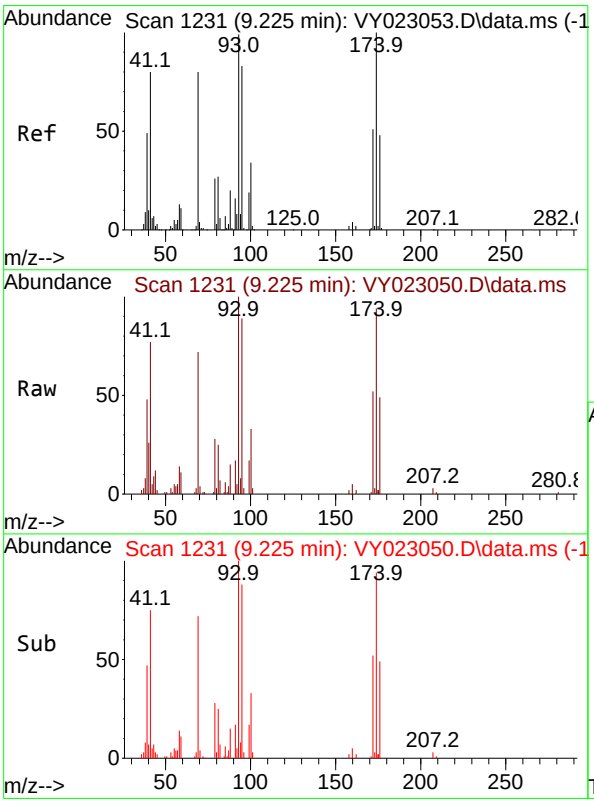
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 27.7 | 25.3 | 37.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

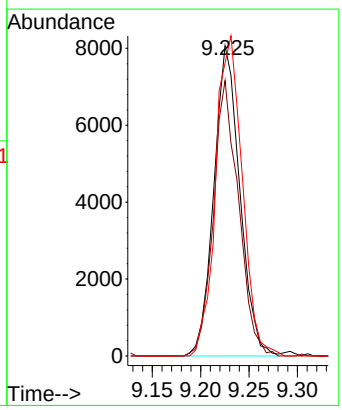


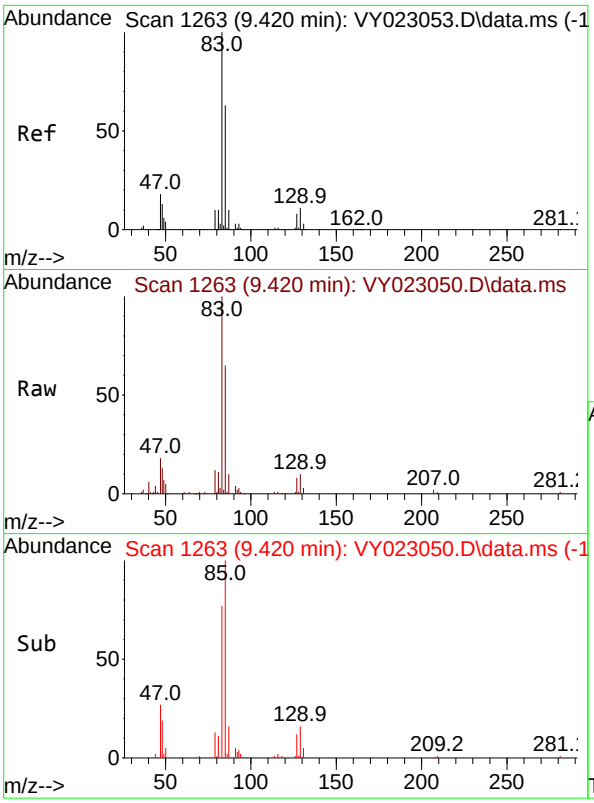




#46
Dibromomethane
Concen: 4.590 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 93 Resp: 15033

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 86.0 | 66.5 | 99.7 |
| 174 | 106.0 | 81.8 | 122.8 |

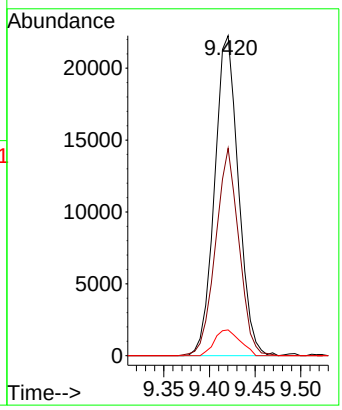





#47
Bromodichloromethane
Concen: 4.785 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 83 Resp: 4032

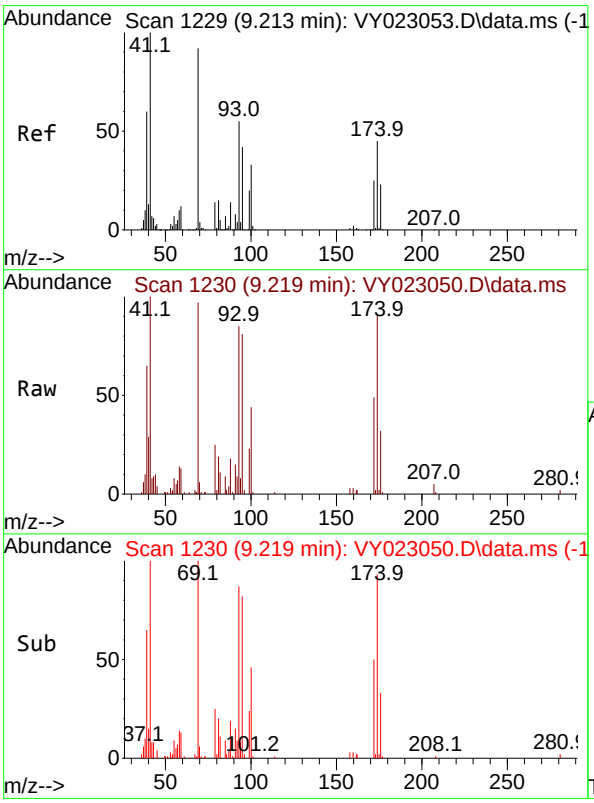
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.8 | 50.2 | 75.4 |
| 127 | 8.1 | 6.6 | 10.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

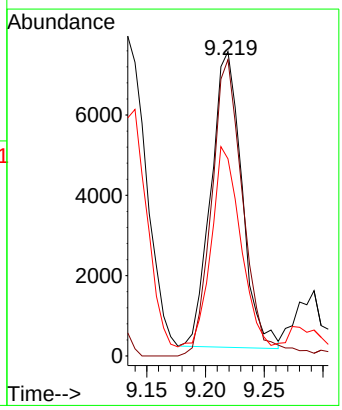
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

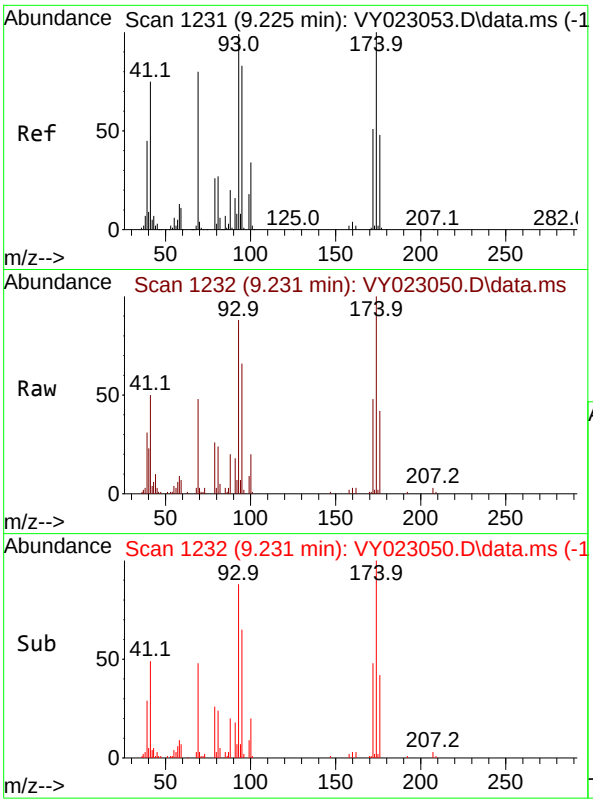



#48
Methyl methacrylate
Concen: 4.122 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 41 Resp: 13477

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 102.1 | 73.2 | 109.8 |
| 39 | 65.2 | 47.0 | 70.4 |

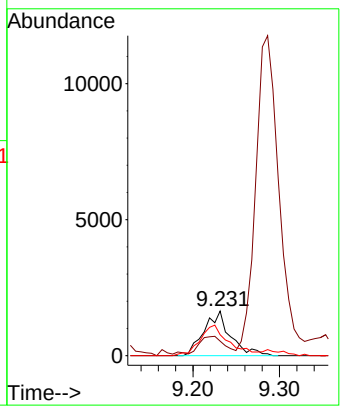





#49
1,4-Dioxane
Concen: 89.939 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 88 Resp: 345

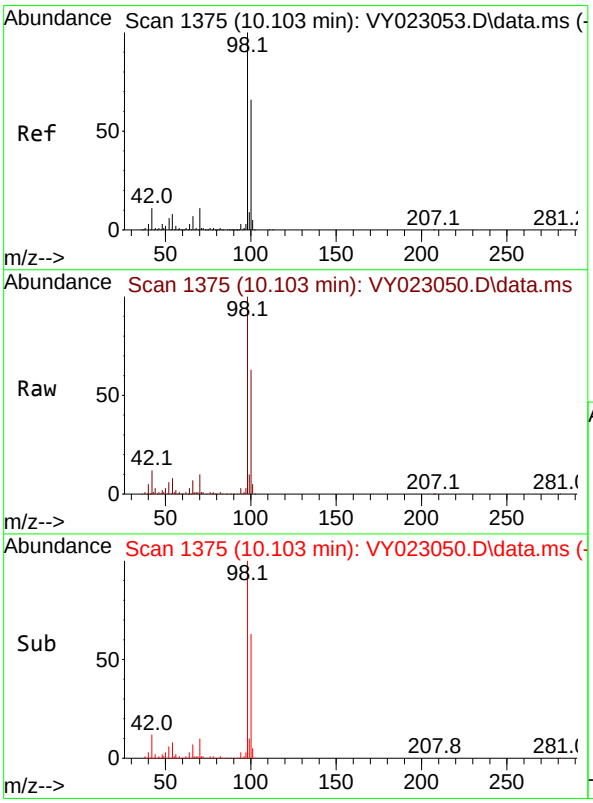
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 38.3 | 24.3 | 36.5 |
| 58 | 74.4 | 55.4 | 83.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

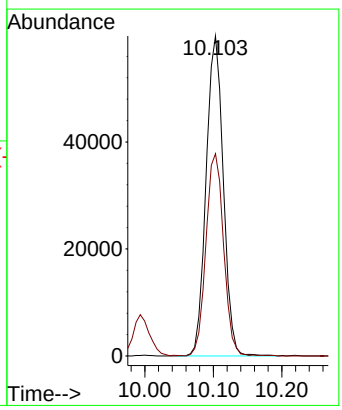
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

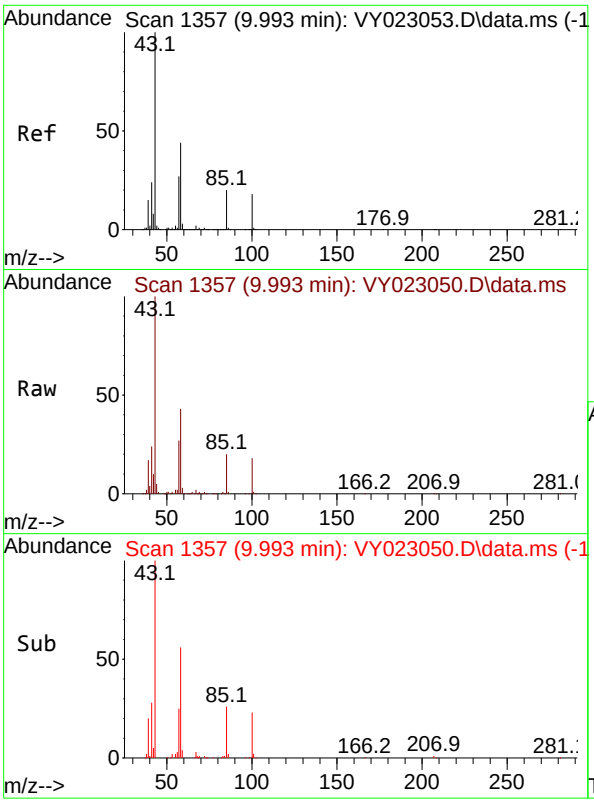



#50
Toluene-d8
Concen: 4.924 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 98 Resp: 104144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.1 | 52.3 | 78.5 |

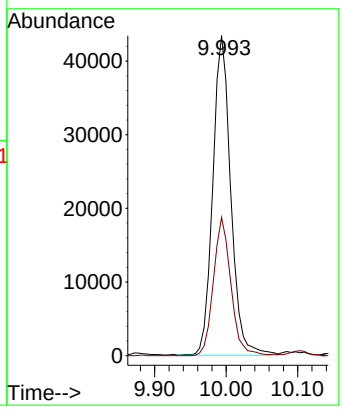





#51
4-Methyl-2-Pentanone
Concen: 21.535 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 43 Resp: 7589

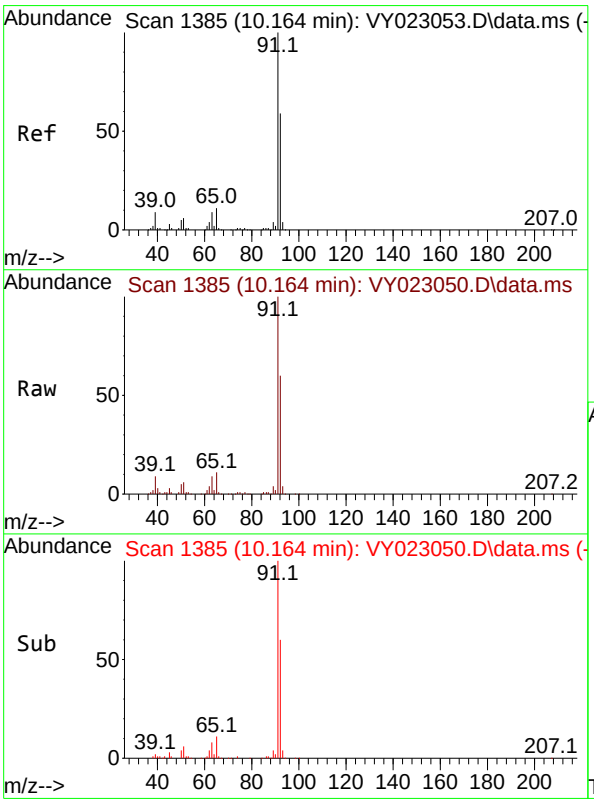
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 41.9 | 33.5 | 50.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

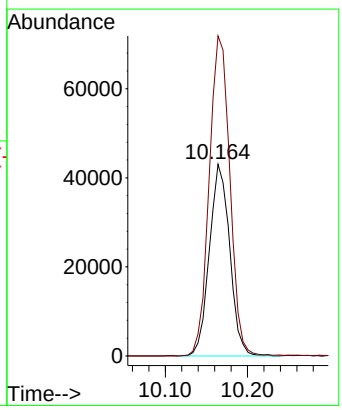
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

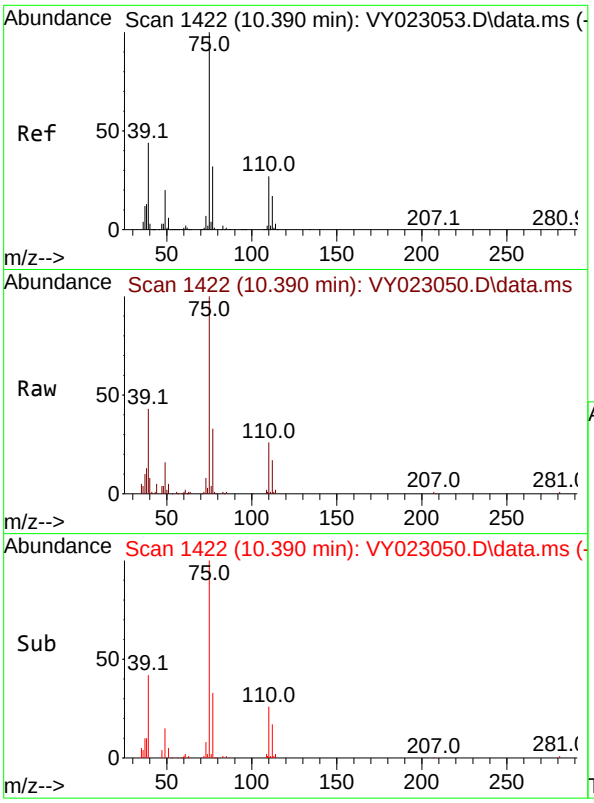



#52
Toluene
Concen: 4.692 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 92 Resp: 73910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 170.1 | 136.4 | 204.6 |

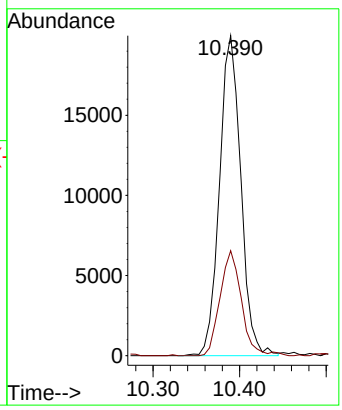





#53
t-1,3-Dichloropropene
Concen: 4.475 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 75 Resp: 3415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.8 | 25.7 | 38.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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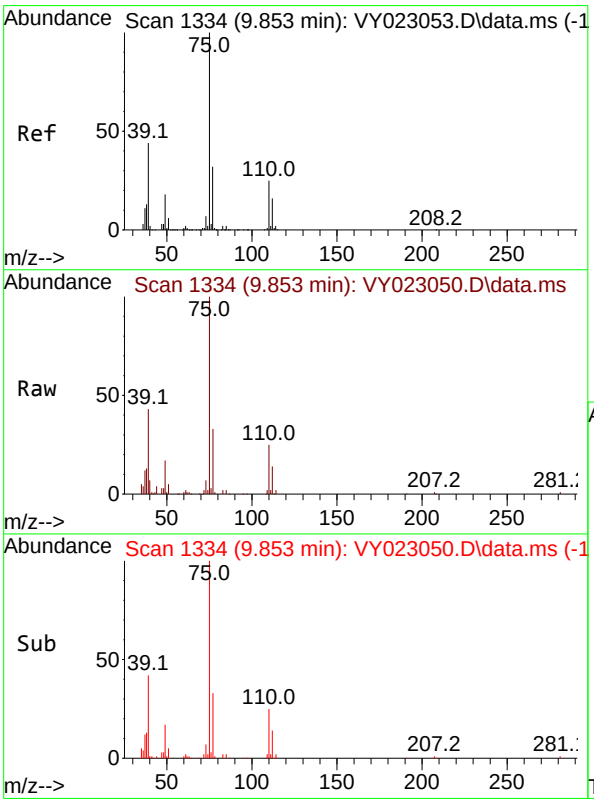
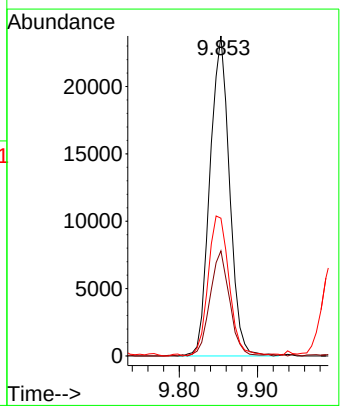
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

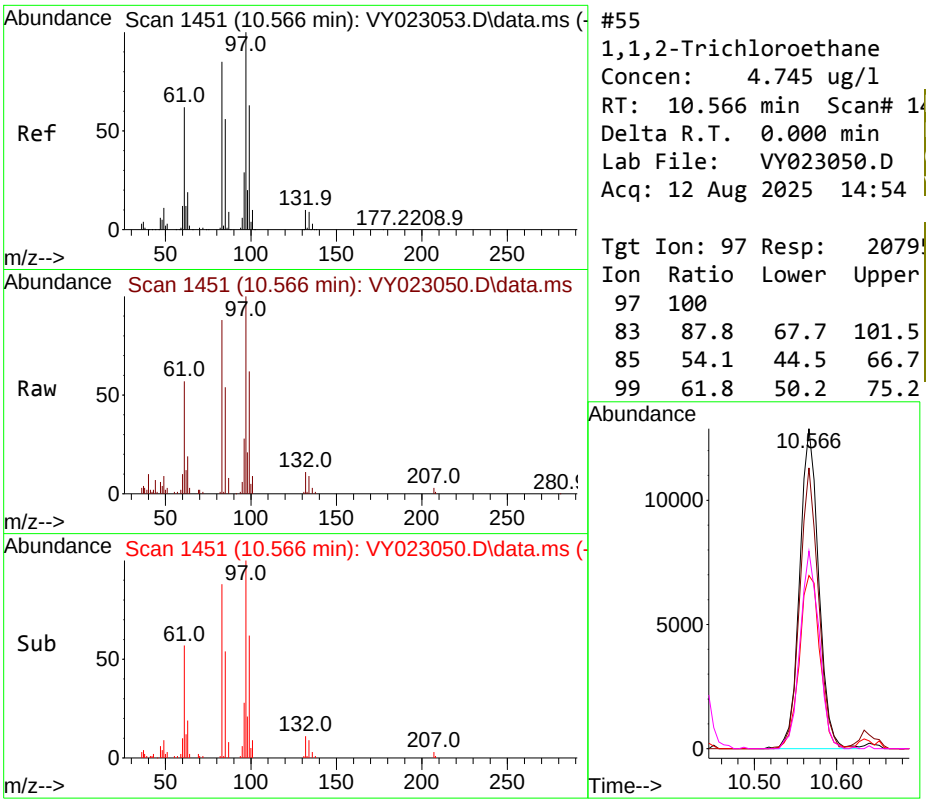



#54
cis-1,3-Dichloropropene
Concen: 4.579 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 75 Resp: 41326

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.9 | 25.4 | 38.0 |
| 39 | 42.5 | 35.6 | 53.4 |






#55
1,1,2-Trichloroethane
Concen: 4.745 ug/l
RT: 10.566 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 97 Resp: 2079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 87.8 | 67.7 | 101.5 |
| 85 | 54.1 | 44.5 | 66.7 |
| 99 | 61.8 | 50.2 | 75.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

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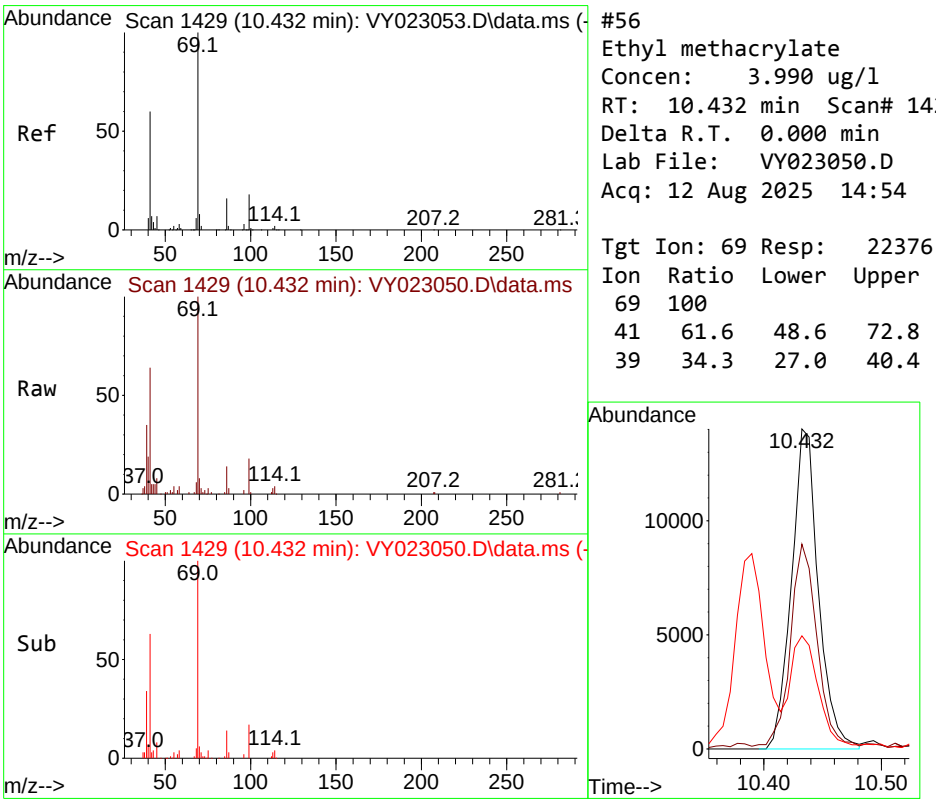
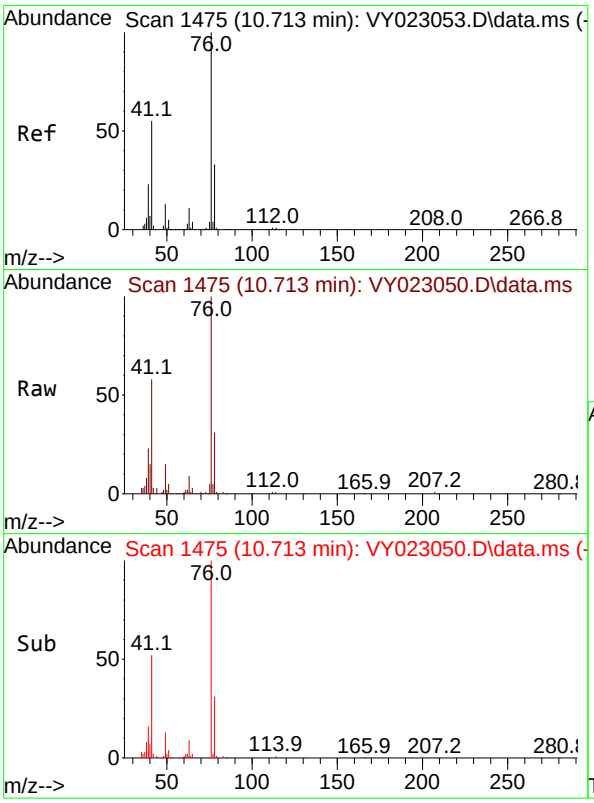
Supervised By :Semsettin Yesilyurt 08/14/2025




#56
Ethyl methacrylate
Concen: 3.990 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 69 Resp: 22376

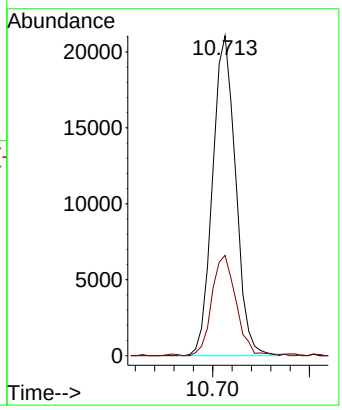
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 61.6 | 48.6 | 72.8 |
| 39 | 34.3 | 27.0 | 40.4 |




#57
1,3-Dichloropropane
Concen: 4.687 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 76 Resp: 3483

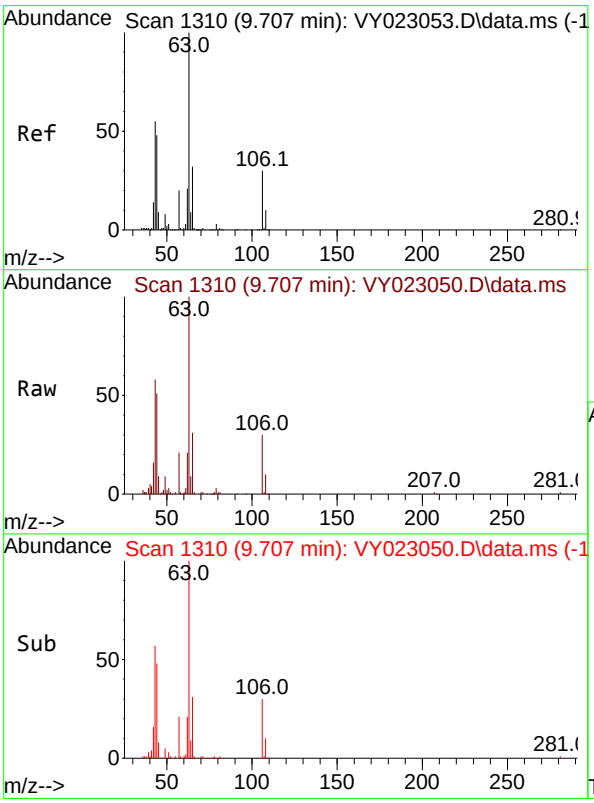
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 33.1 | 26.0 | 39.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

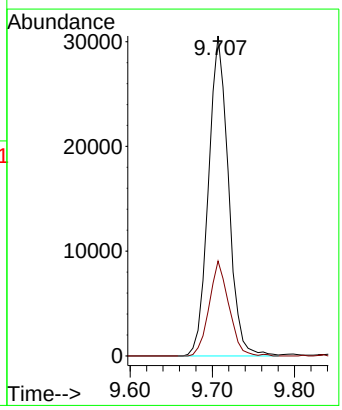
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

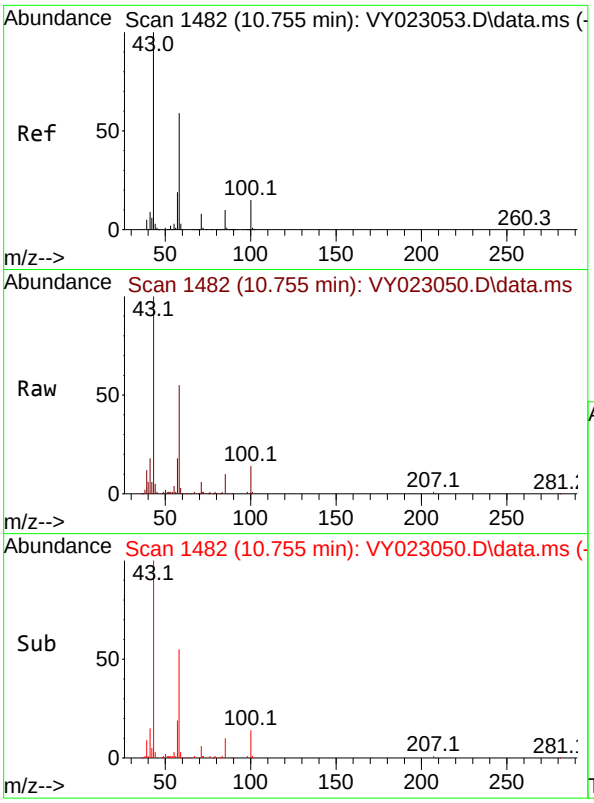



#58
2-Chloroethyl Vinyl ether
Concen: 19.500 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 63 Resp: 51585

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 29.2 | 23.2 | 34.8 |






#59
2-Hexanone
Concen: 21.088 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 43 Resp: 5060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 56.9 | 29.5 | 88.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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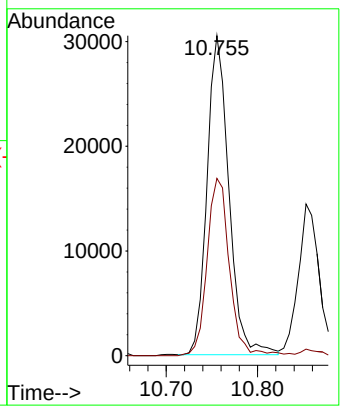
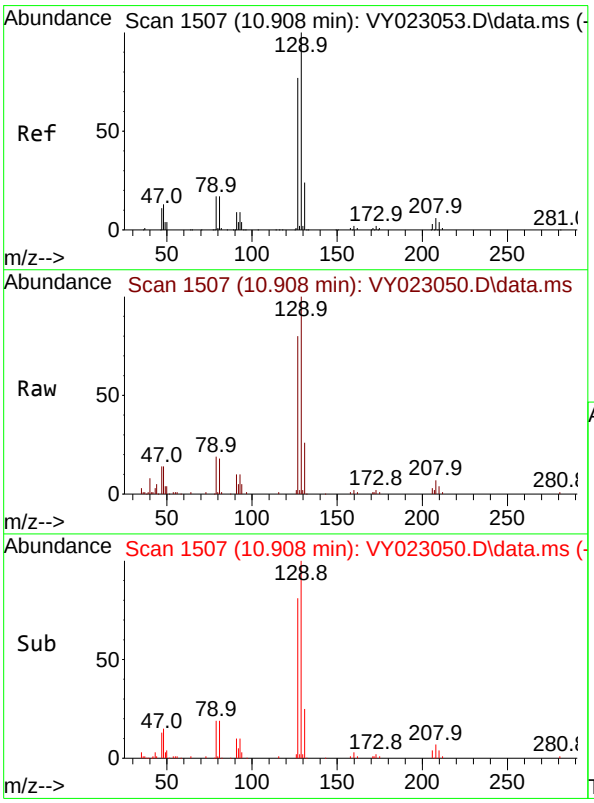
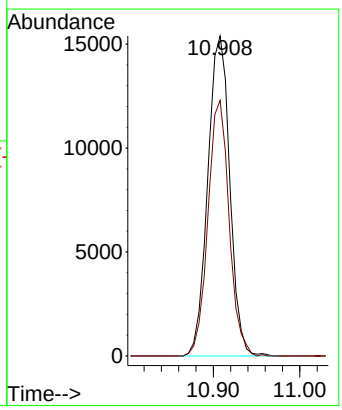


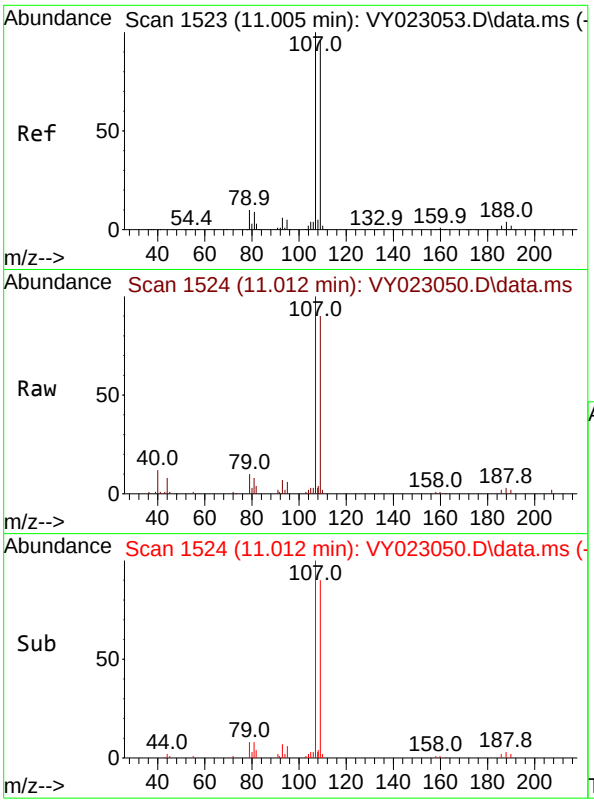




#60
Dibromochloromethane
Concen: 4.693 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:129 Resp: 27141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.0 | 38.5 | 115.5 |






#61
1,2-Dibromoethane
Concen: 4.528 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:107 Resp: 1865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 97.4 | 75.6 | 113.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

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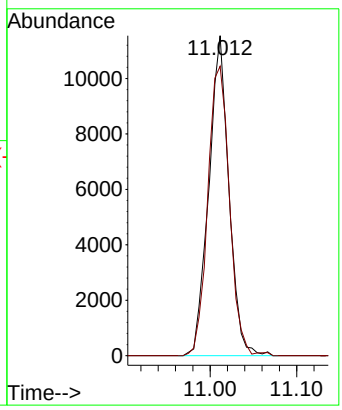
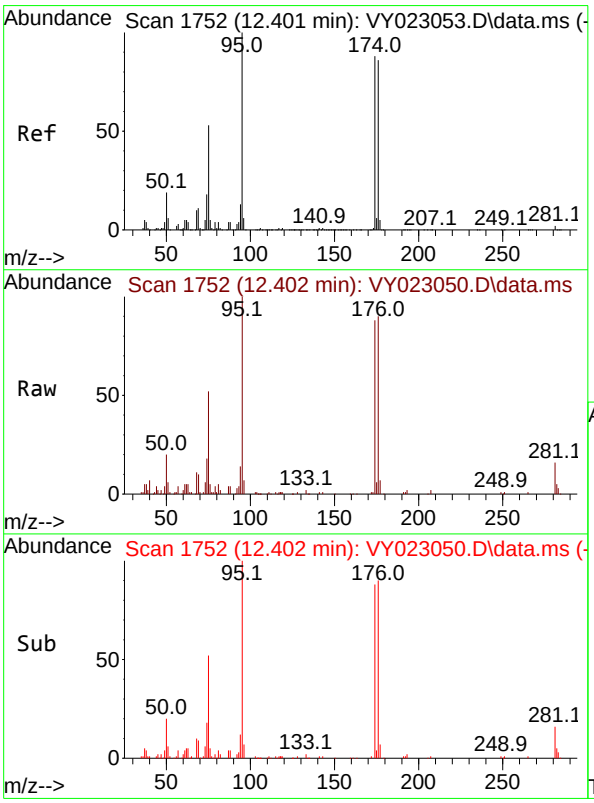
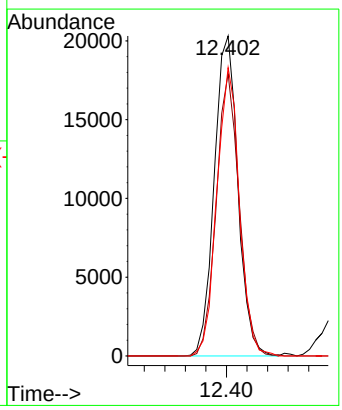


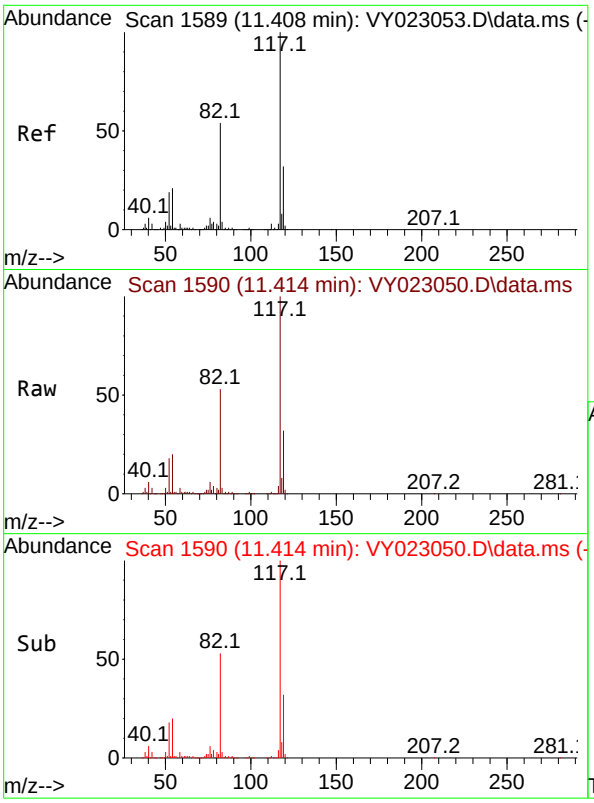




#62
4-Bromofluorobenzene
Concen: 4.766 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 95 Resp: 32420

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 85.5 | 0.0 | 171.6 |
| 176 | 86.1 | 0.0 | 167.6 |

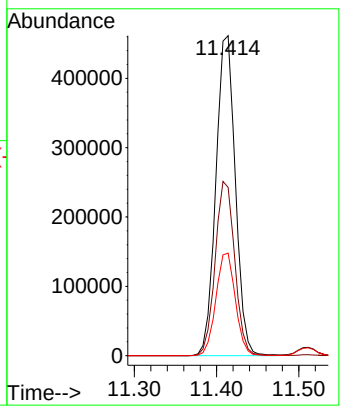





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:117 Resp: 75991

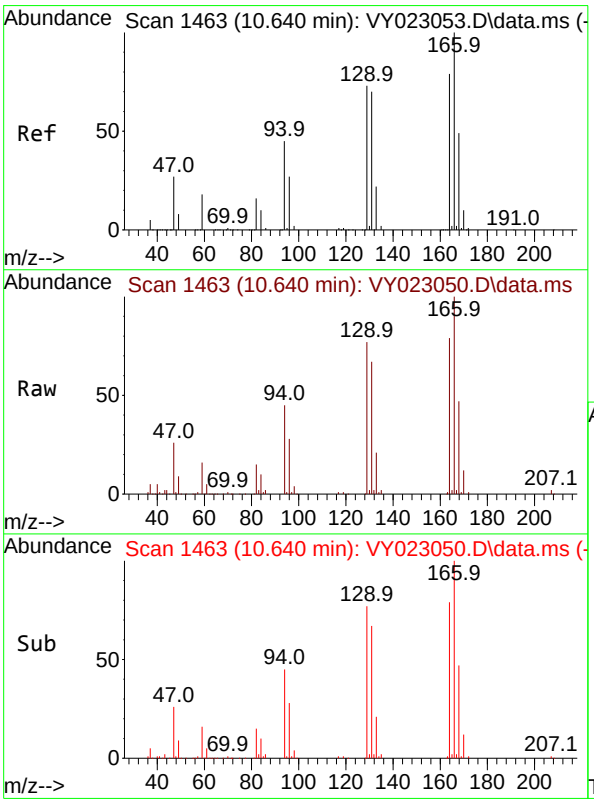
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 52.6 | 43.4 | 65.0 |
| 119 | 32.1 | 25.6 | 38.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

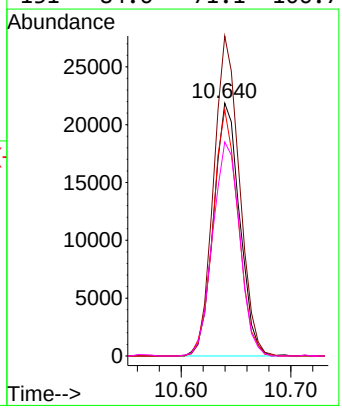
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

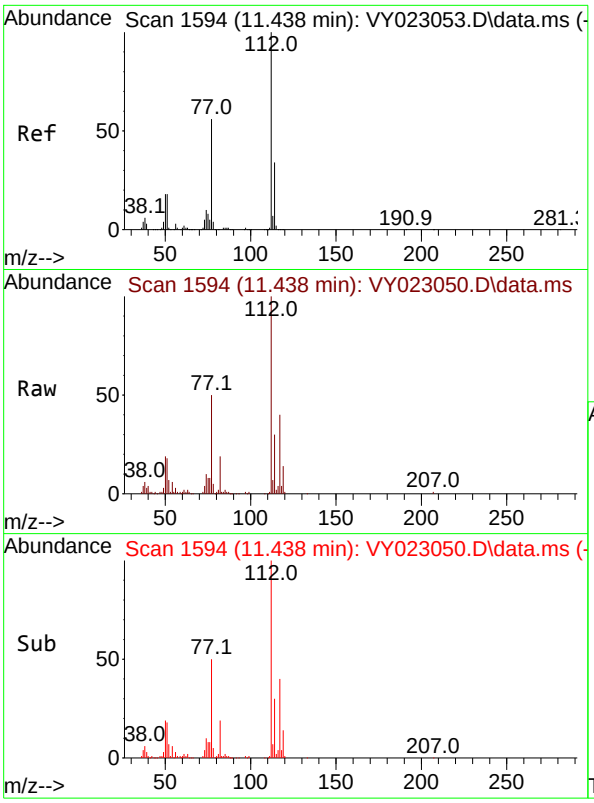



#64
Tetrachloroethene
Concen: 5.336 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:164 Resp: 36210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 126.6 | 101.1 | 151.7 |
| 129 | 97.4 | 74.0 | 111.0 |
| 131 | 84.6 | 71.1 | 106.7 |

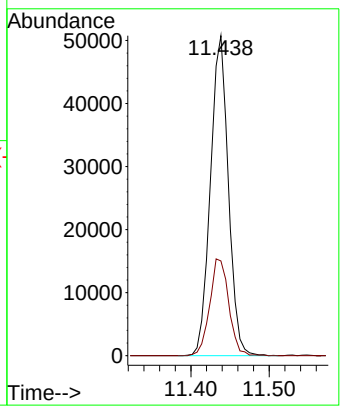





#65
Chlorobenzene
Concen: 4.922 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:112 Resp: 8068

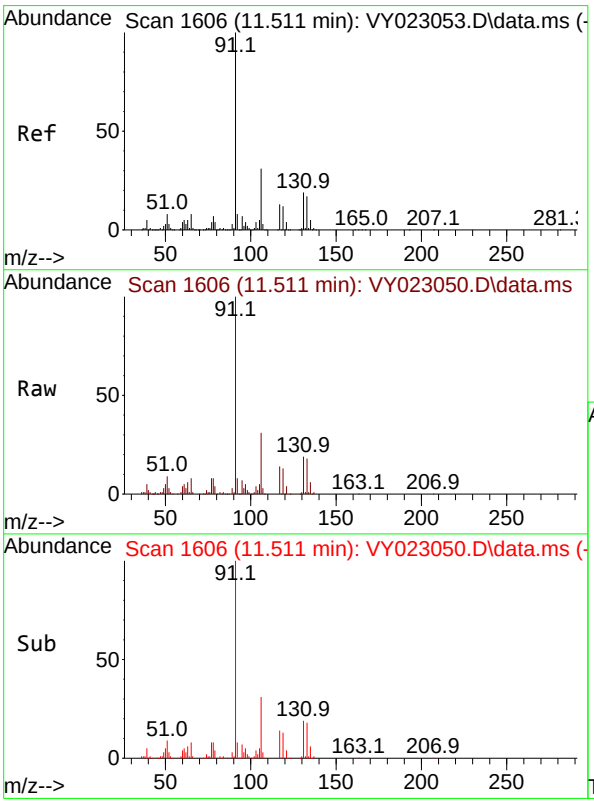
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 29.6 | 27.0 | 40.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

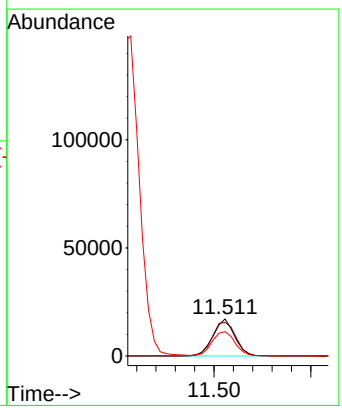
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

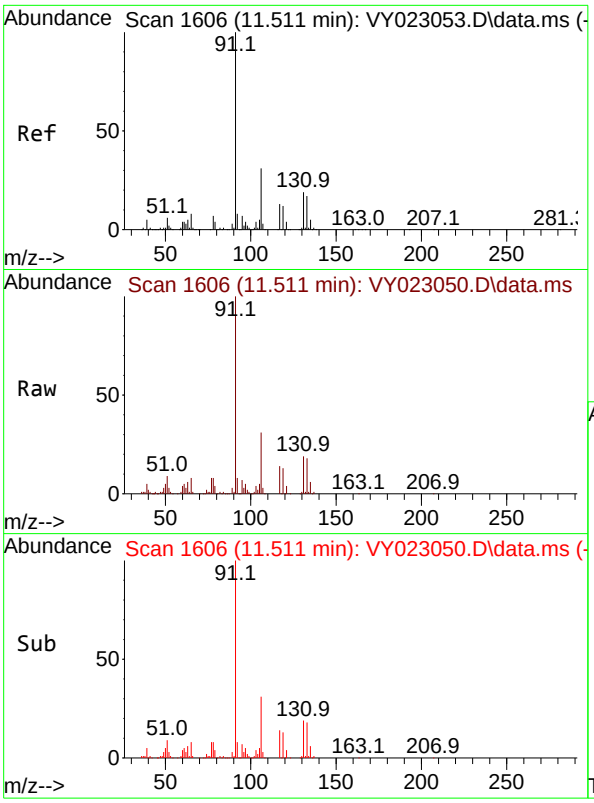



#66
1,1,1,2-Tetrachloroethane
Concen: 4.745 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:131 Resp: 26397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 100.6 | 46.9 | 140.6 |
| 119 | 70.6 | 33.2 | 99.6 |

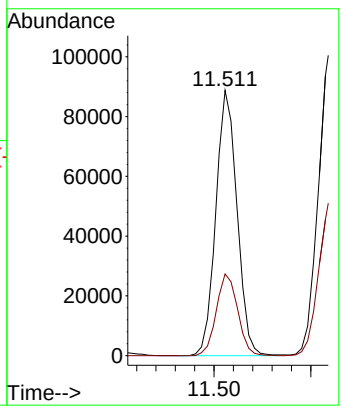





#67
Ethyl Benzene
Concen: 4.781 ug/l
RT: 11.511 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 91 Resp: 13485

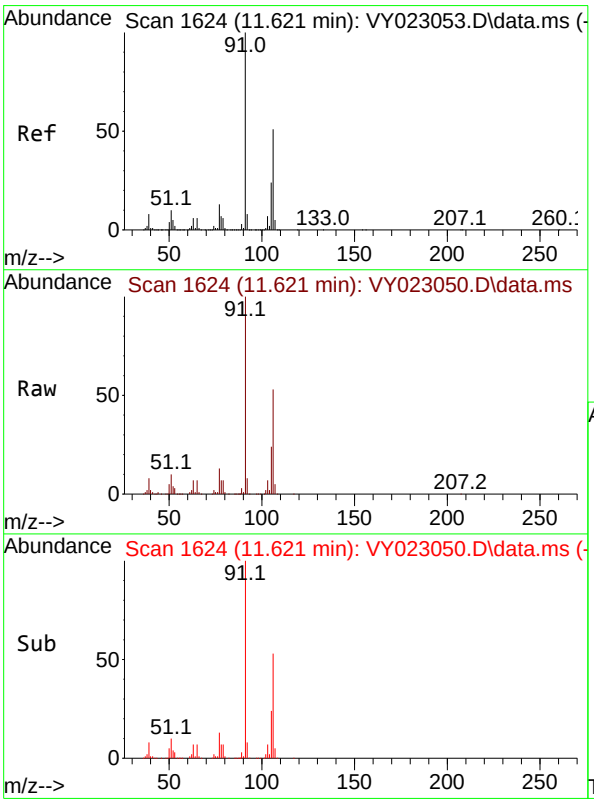
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.8 | 25.0 | 37.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

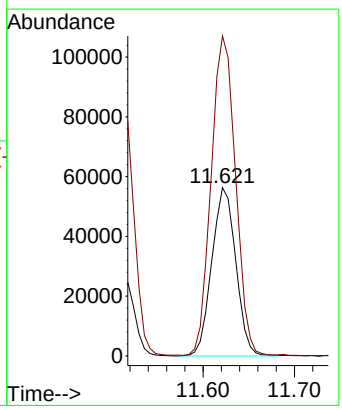
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

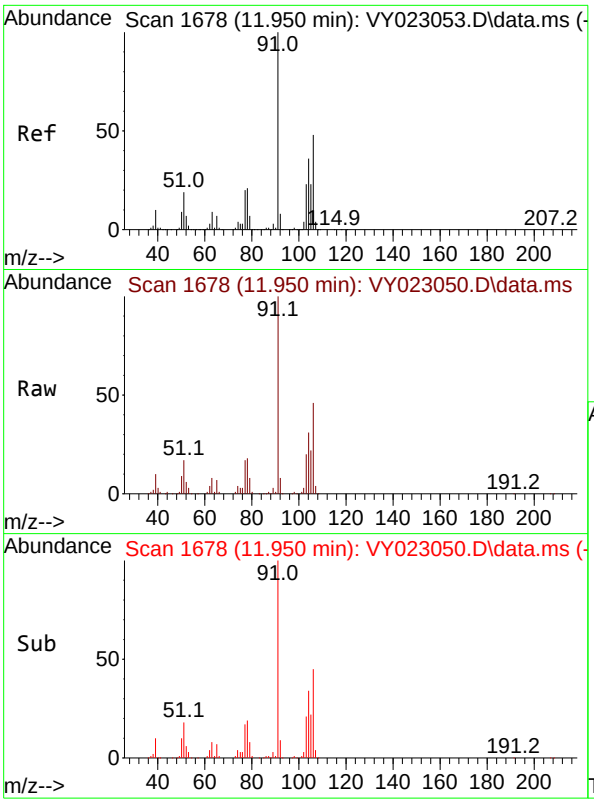



#68
m/p-Xylenes
Concen: 9.329 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:106 Resp: 102783

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 194.0 | 158.6 | 238.0 |

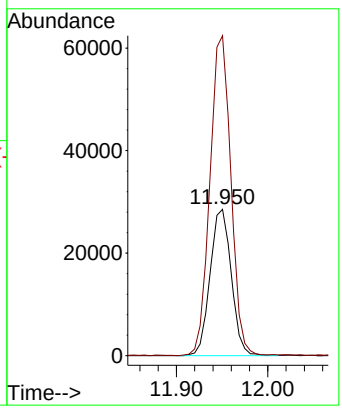





#69
o-Xylene
Concen: 4.453 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:106 Resp: 4594

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 216.3 | 103.2 | 309.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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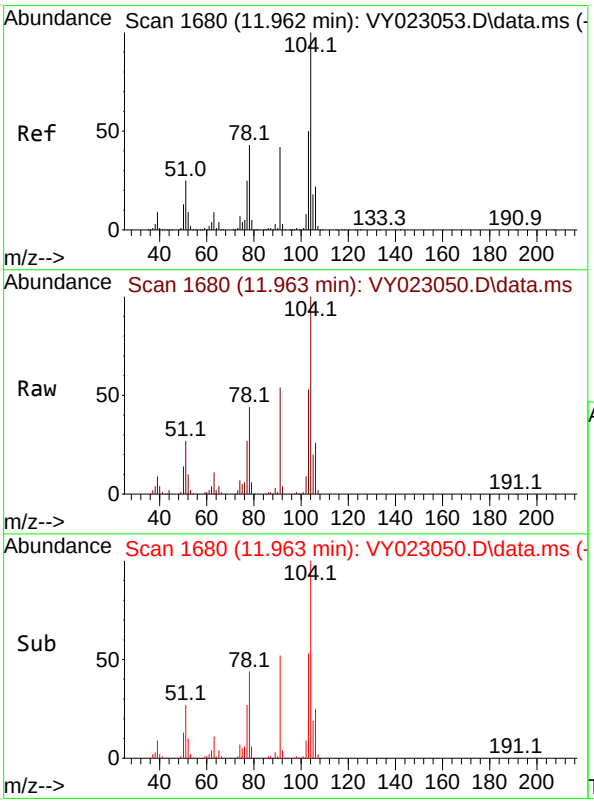
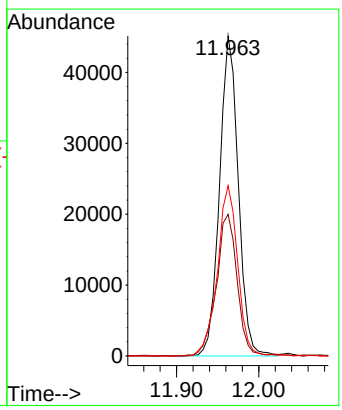
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

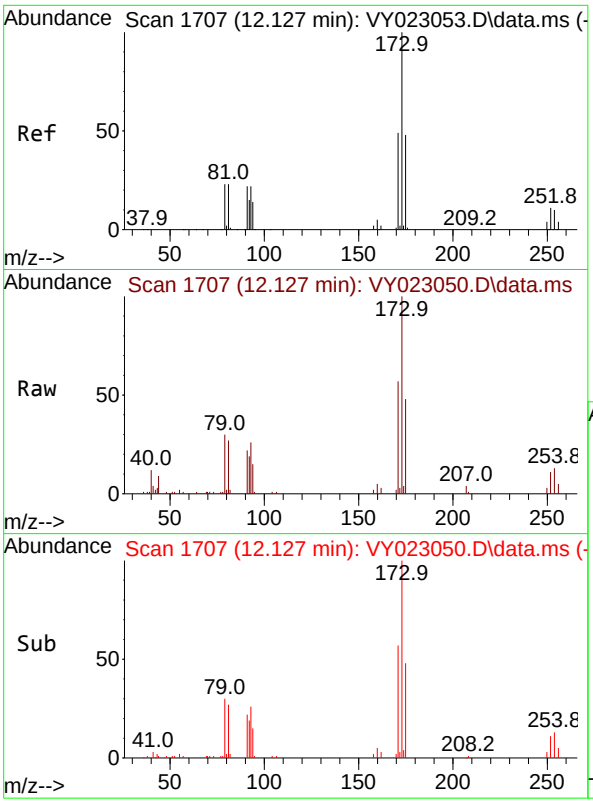



#70
Styrene
Concen: 4.255 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:104 Resp: 71801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 48.8 | 38.5 | 57.7 |
| 103 | 57.6 | 43.7 | 65.5 |






#71
Bromoform
Concen: 4.599 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

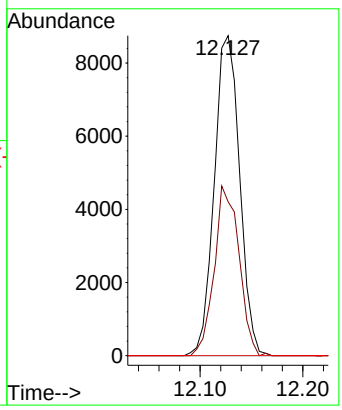
Tgt Ion:173 Resp: 1495

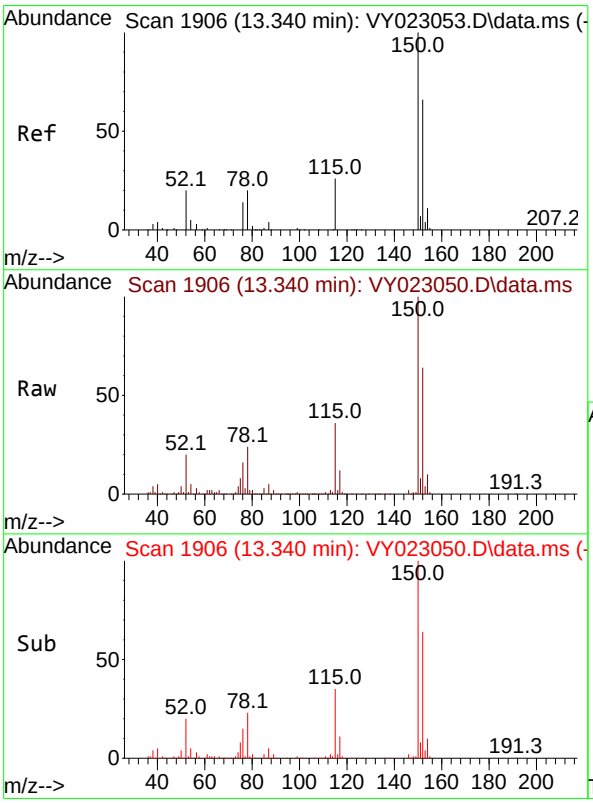
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 51.7 | 23.9 | 71.7 |
| 254 | 0.0 | 0.1 | 0.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

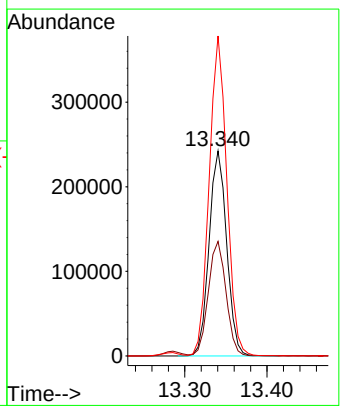


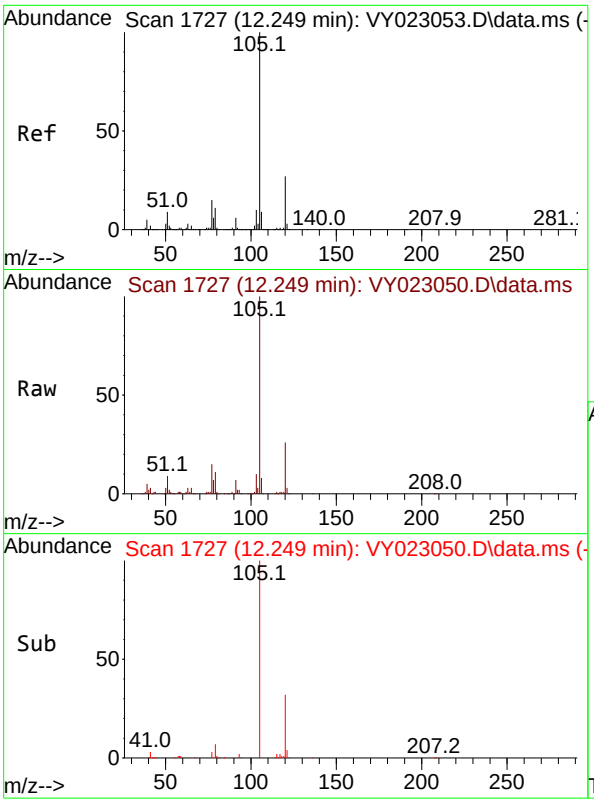




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:152 Resp: 360397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 56.4 | 28.2 | 84.6 |
| 150 | 155.7 | 0.0 | 348.0 |

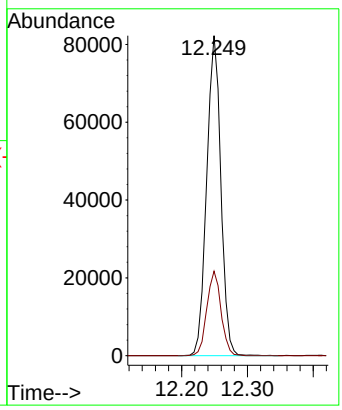





#73
Isopropylbenzene
Concen: 4.845 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:105 Resp: 12324

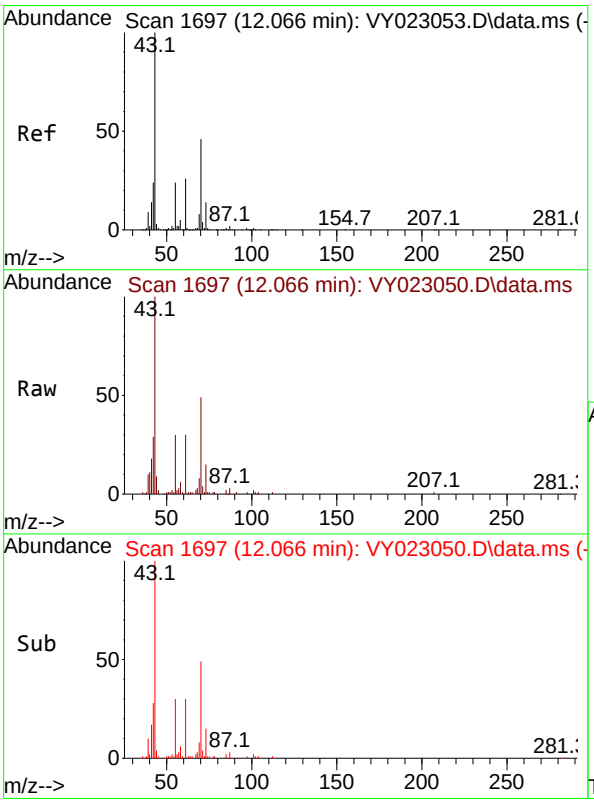
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.5 | 13.4 | 40.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

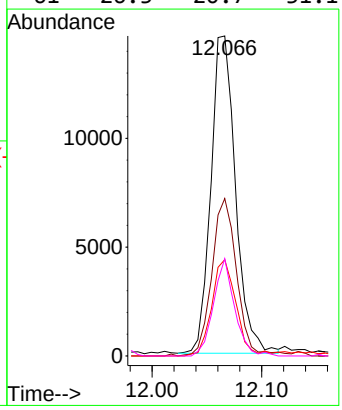
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

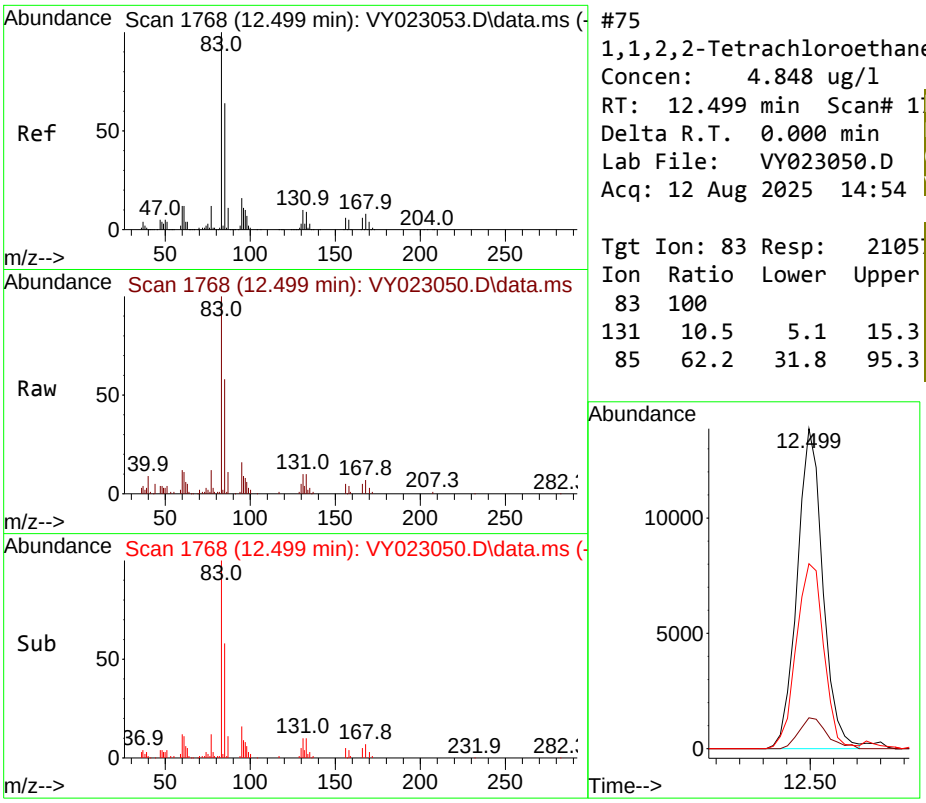



#74
N-amyl acetate
Concen: 4.232 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 43 Resp: 22829

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 50.0 | 37.5 | 56.3 |
| 55 | 29.9 | 20.7 | 31.1 |
| 61 | 26.3 | 20.7 | 31.1 |






#75
1,1,2,2-Tetrachloroethane
Concen: 4.848 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 83 Resp: 2105

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.5 | 5.1 | 15.3 |
| 85 | 62.2 | 31.8 | 95.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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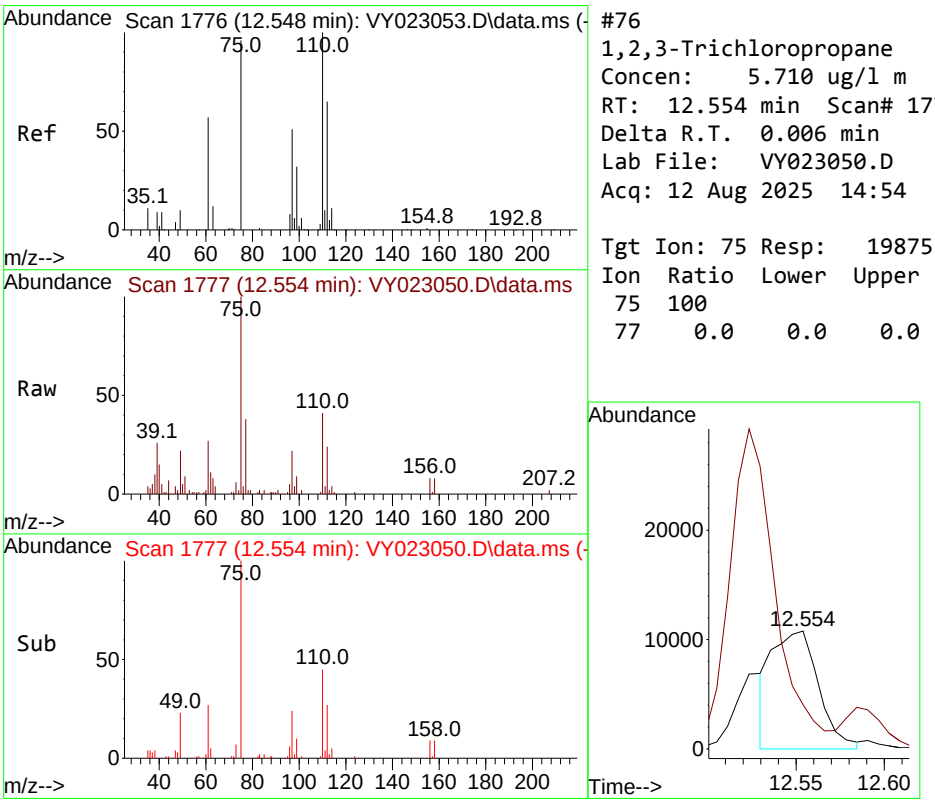
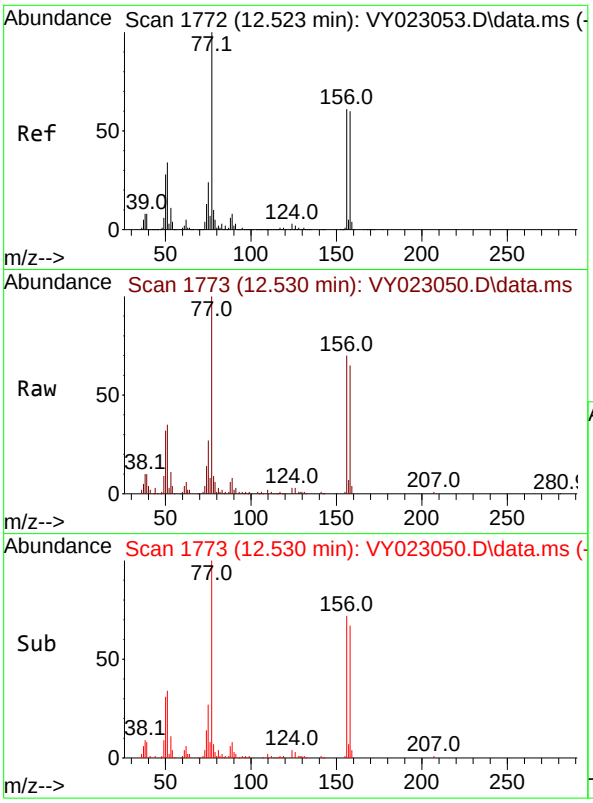
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025




#76
1,2,3-Trichloropropane
Concen: 5.710 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 75 Resp: 19875

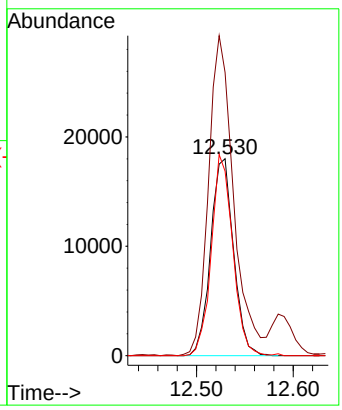
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |




#77
Bromobenzene
Concen: 4.891 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:156 Resp: 2968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 176.7 | 88.1 | 264.4 |
| 158 | 95.4 | 48.0 | 144.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

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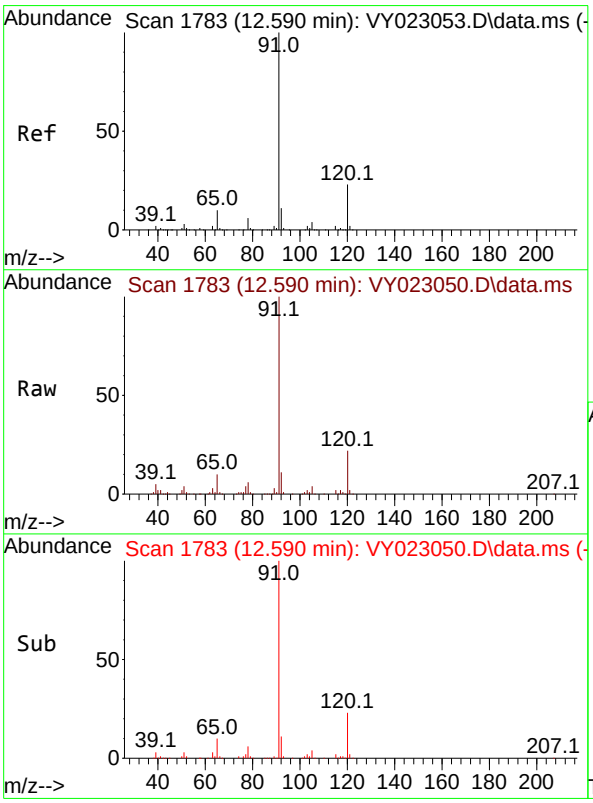
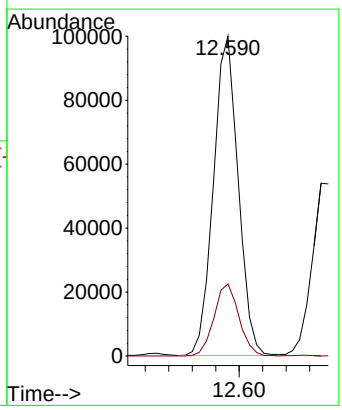
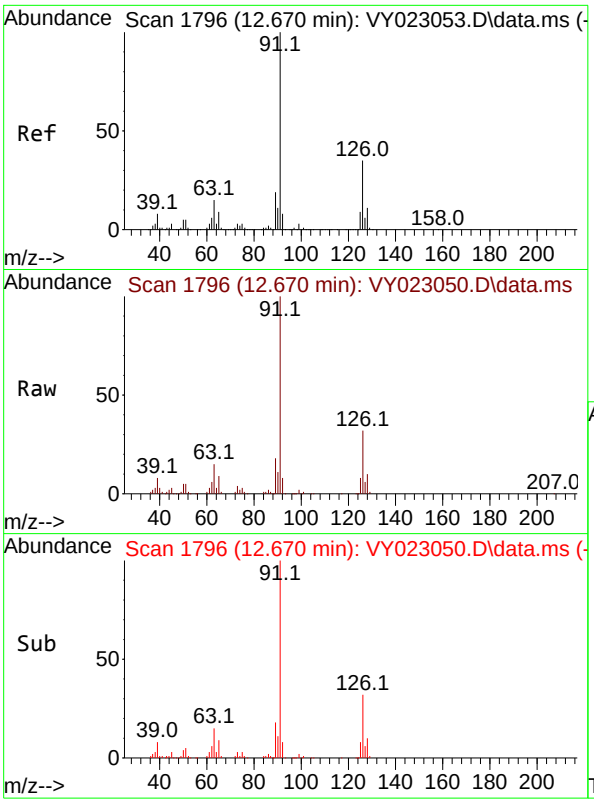



#78
n-propylbenzene
Concen: 4.822 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 91 Resp: 146043

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.7 | 11.5 | 34.5 |

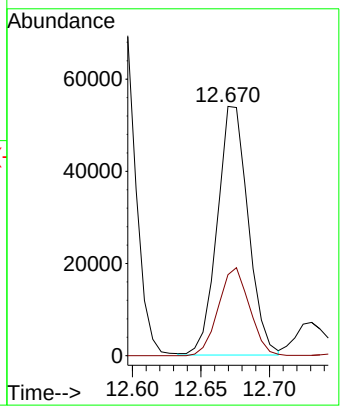





#79
2-Chlorotoluene
Concen: 4.880 ug/l
RT: 12.670 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 91 Resp: 8467

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.5 | 17.4 | 52.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
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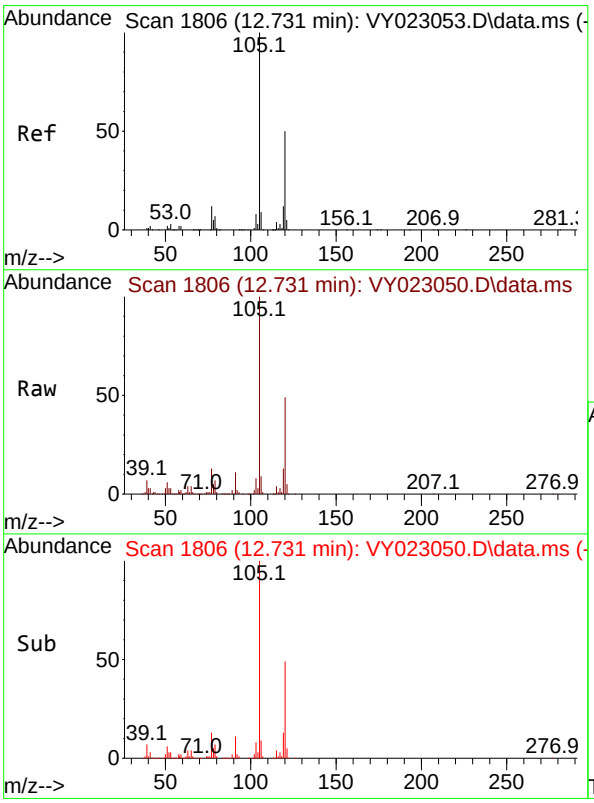
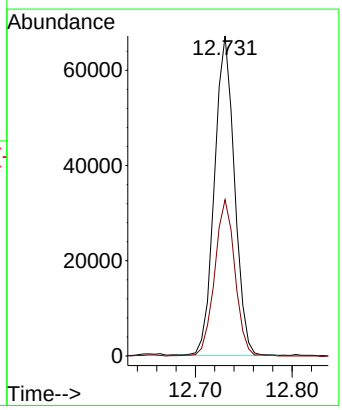
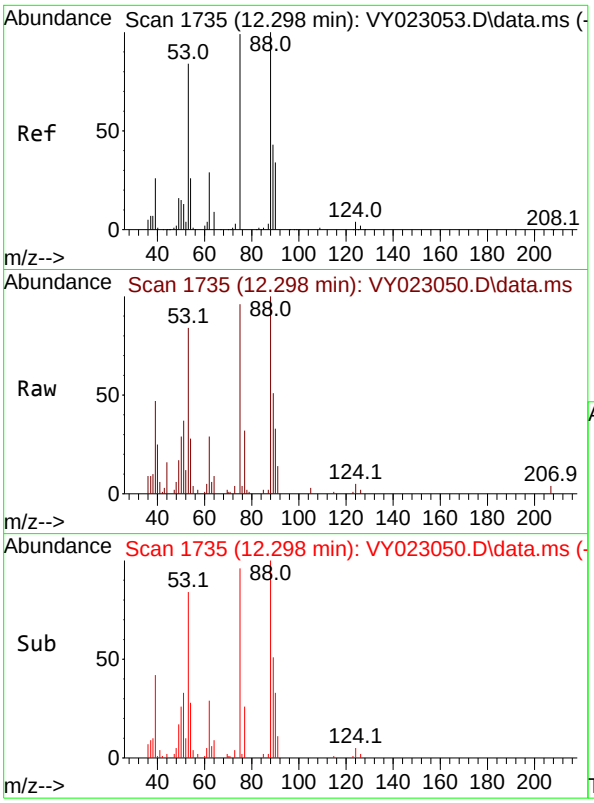



#80
1,3,5-Trimethylbenzene
Concen: 4.685 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:105 Resp: 96308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.6 | 24.8 | 74.4 |






#81
trans-1,4-Dichloro-2-butene
Concen: 4.533 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

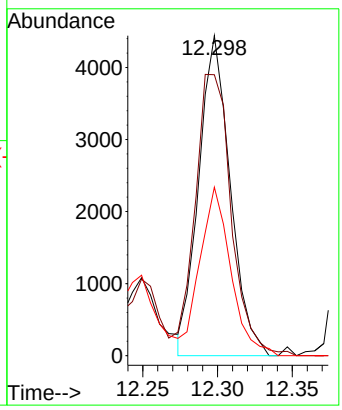
Tgt Ion: 75 Resp: 651

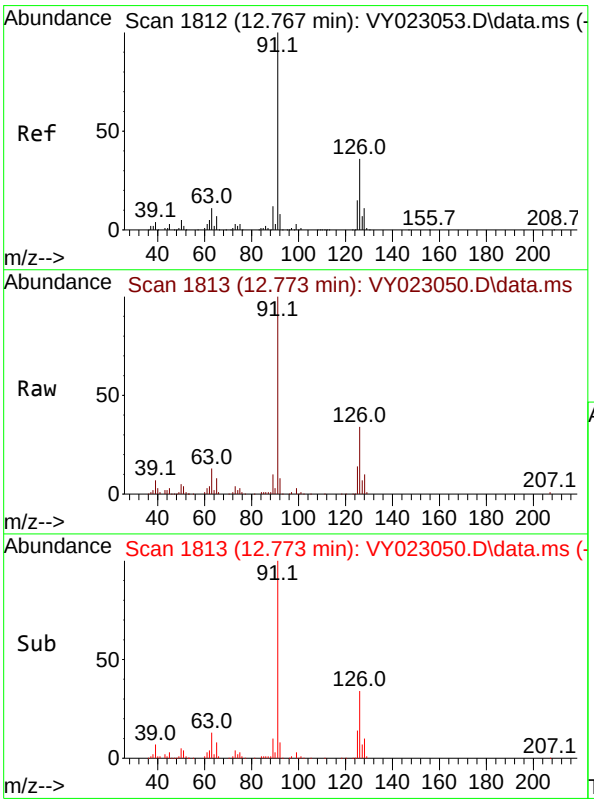
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 101.3 | 70.8 | 106.2 |
| 89 | 51.7 | 38.1 | 57.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

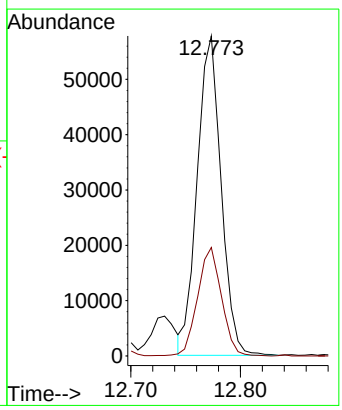


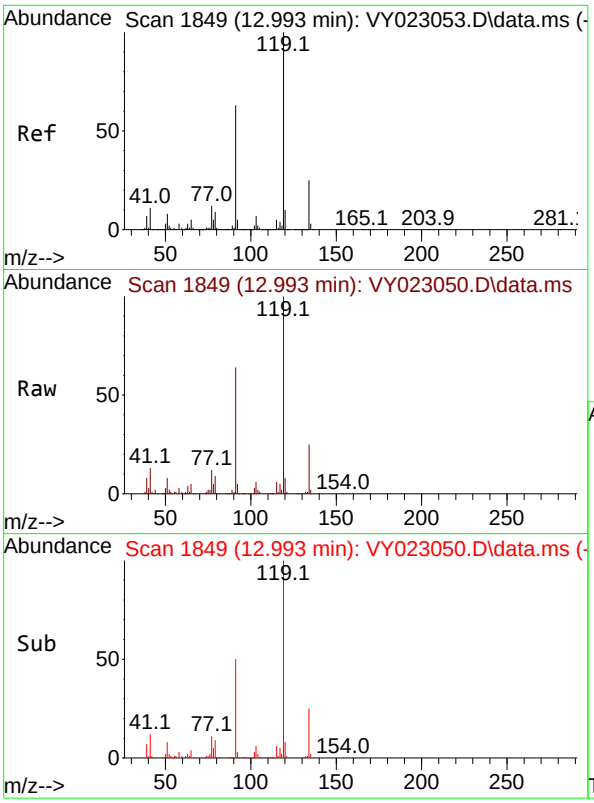




#82
4-Chlorotoluene
Concen: 4.859 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 91 Resp: 87454

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.0 | 17.3 | 52.0 |

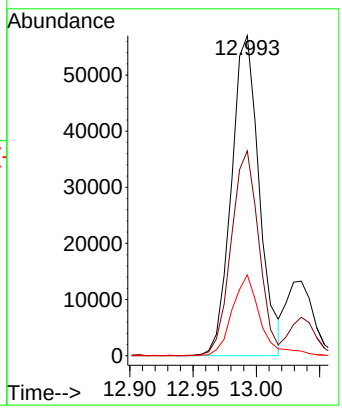





#83
tert-Butylbenzene
Concen: 4.712 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:119 Resp: 8749

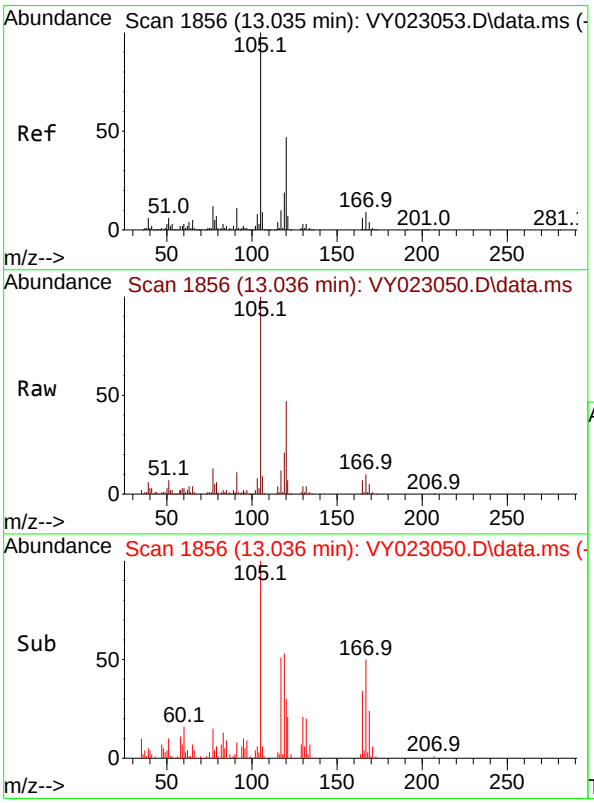
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 63.6 | 31.6 | 94.8 |
| 134 | 25.5 | 12.9 | 38.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

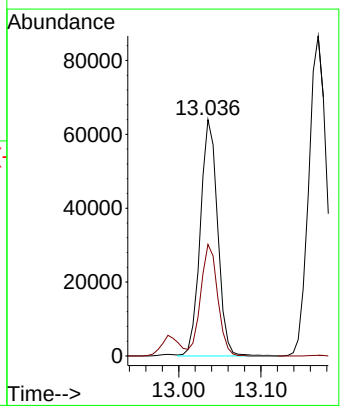
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

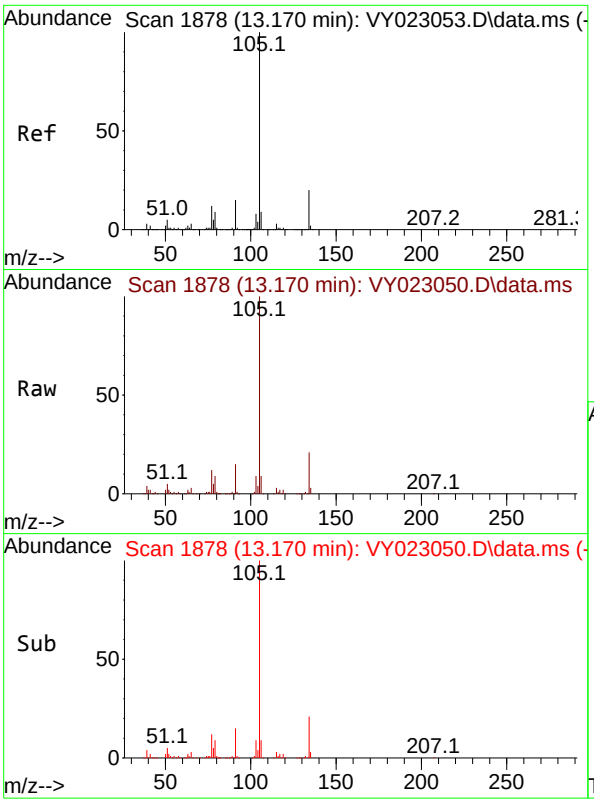



#84
1,2,4-Trimethylbenzene
Concen: 4.571 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:105 Resp: 93551

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.3 | 23.0 | 69.0 |






#85
sec-Butylbenzene
Concen: 4.806 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

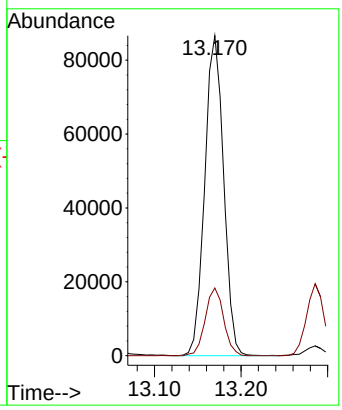
Tgt Ion:105 Resp: 13107

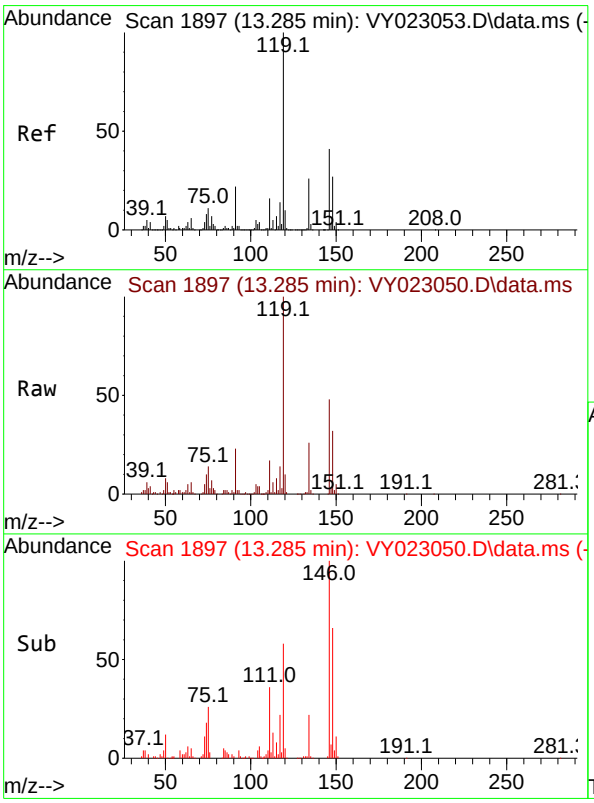
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.7 | 10.2 | 30.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

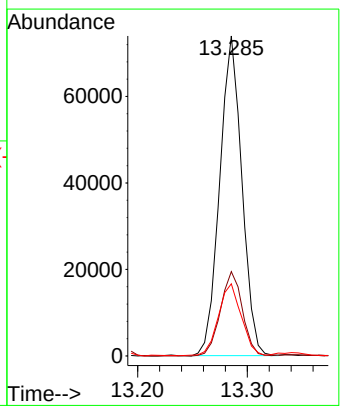


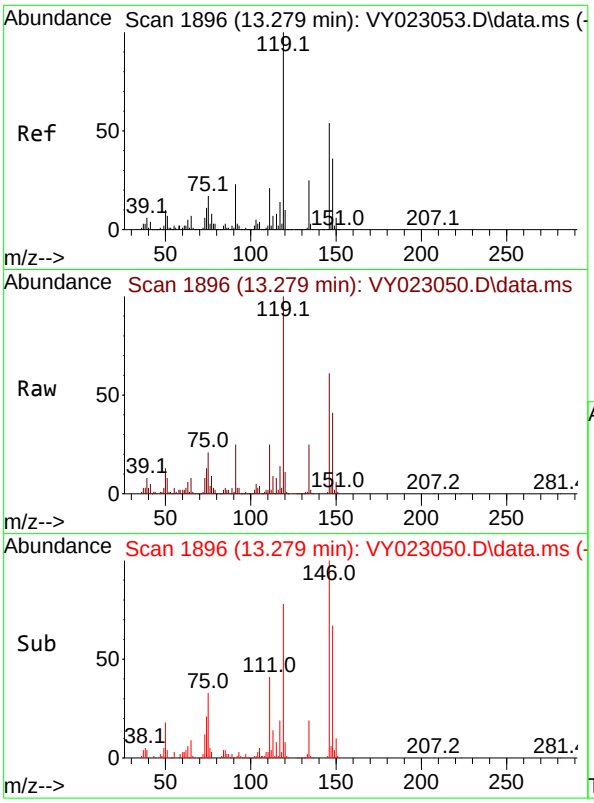




#86
p-Isopropyltoluene
Concen: 4.582 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:119 Resp: 103731

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.2 | 13.2 | 39.6 |
| 91 | 23.5 | 11.3 | 33.8 |

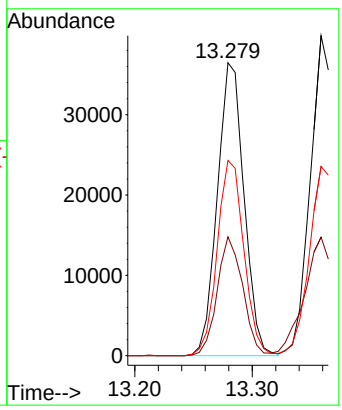





#87
1,3-Dichlorobenzene
Concen: 4.819 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:146 Resp: 5766

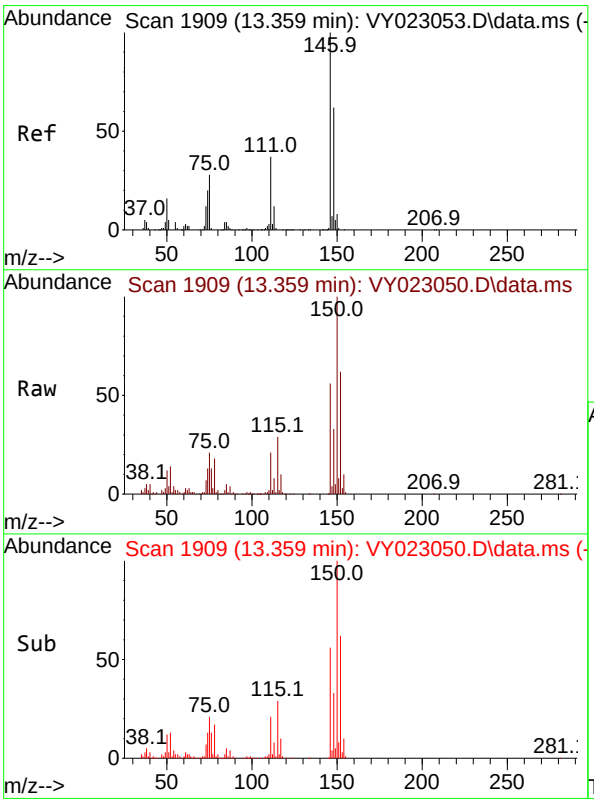
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.8 | 19.6 | 58.7 |
| 148 | 66.5 | 32.5 | 97.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

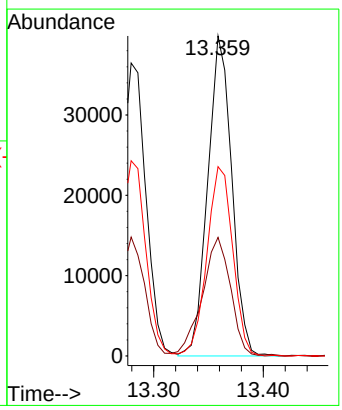
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

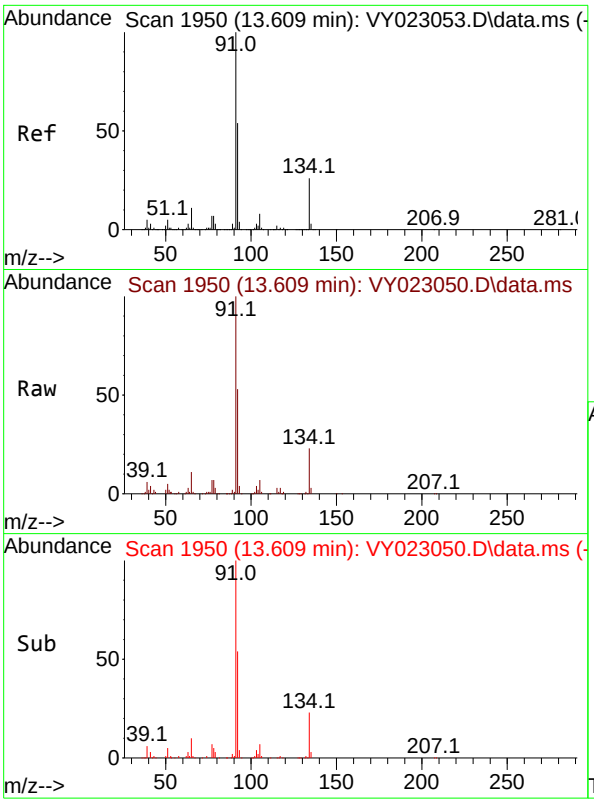



#88
1,4-Dichlorobenzene
Concen: 5.120 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:146 Resp: 60781

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.8 | 19.1 | 57.1 |
| 148 | 63.6 | 31.6 | 94.7 |

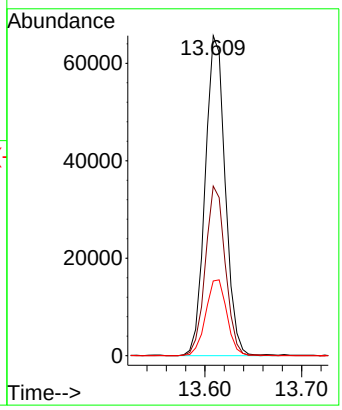





#89
n-Butylbenzene
Concen: 4.549 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 91 Resp: 9459

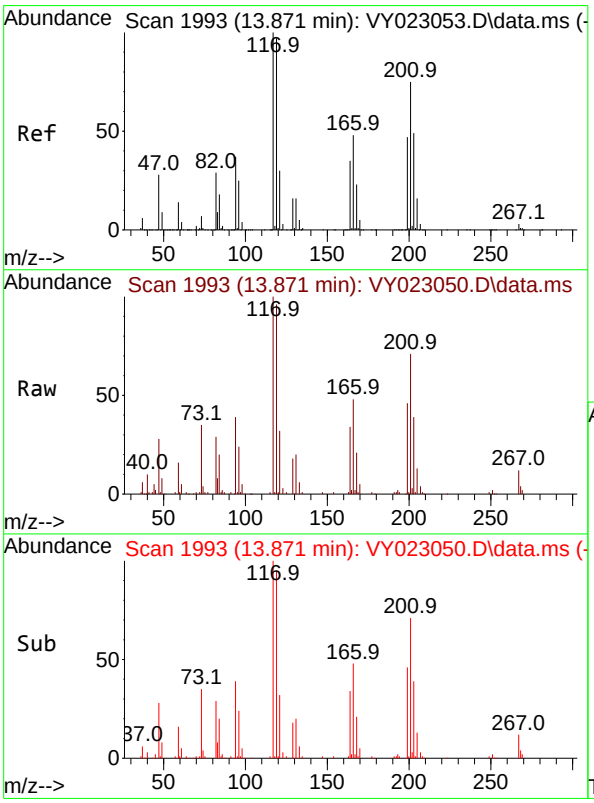
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.6 | 26.9 | 80.7 |
| 134 | 25.1 | 13.2 | 39.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

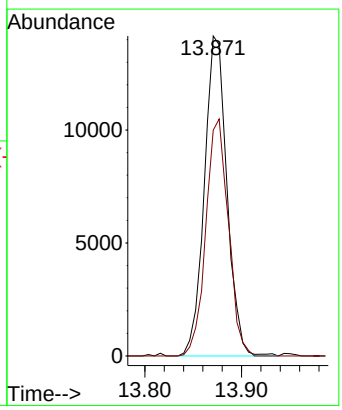
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

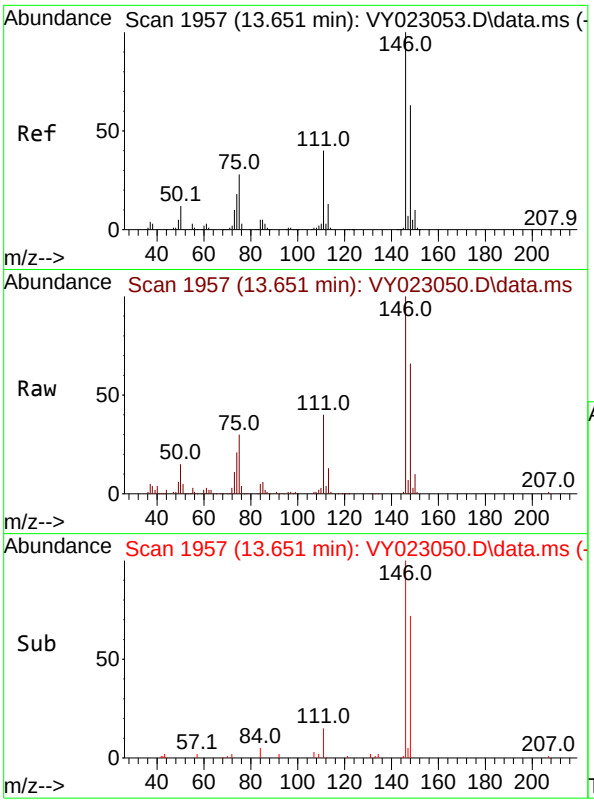



#90
Hexachloroethane
Concen: 4.958 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:117 Resp: 22980

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 74.0 | 38.4 | 115.1 |

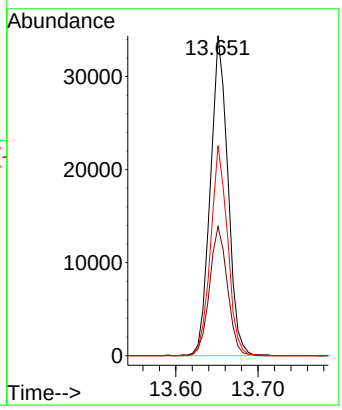





#91
1,2-Dichlorobenzene
Concen: 4.843 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:146 Resp: 5082

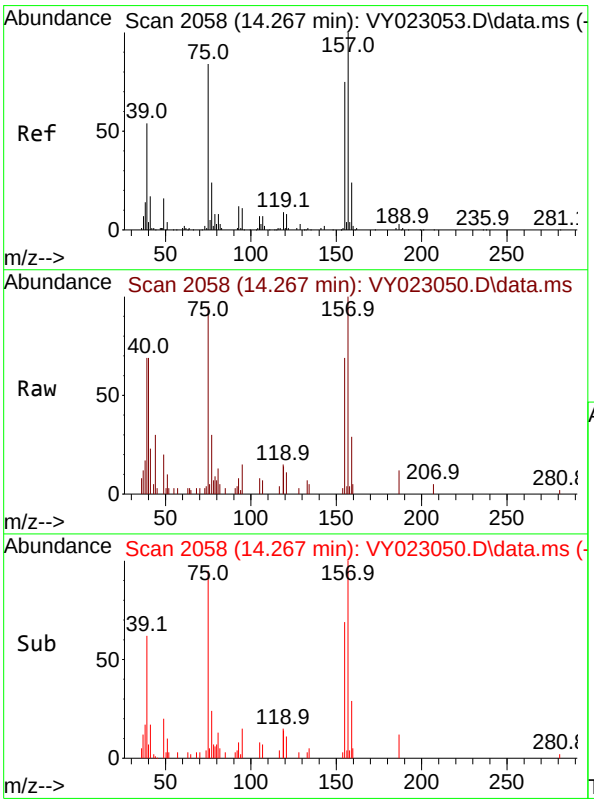
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.3 | 20.3 | 60.8 |
| 148 | 63.6 | 32.2 | 96.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

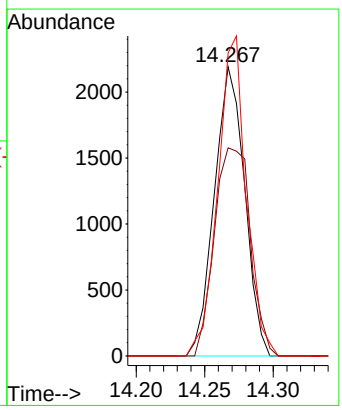
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

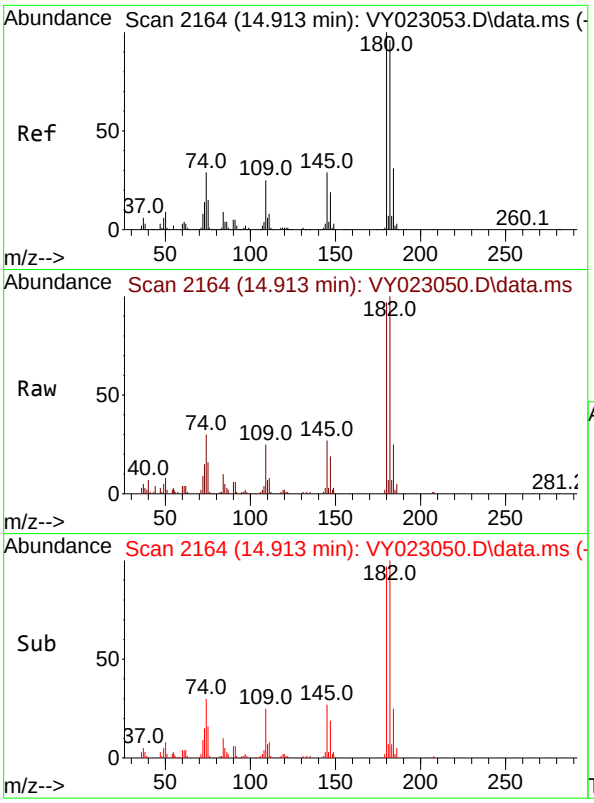



#92
1,2-Dibromo-3-Chloropropane
Concen: 4.982 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 75 Resp: 3369

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 85.3 | 43.9 | 131.6 |
| 157 | 103.8 | 57.2 | 171.6 |

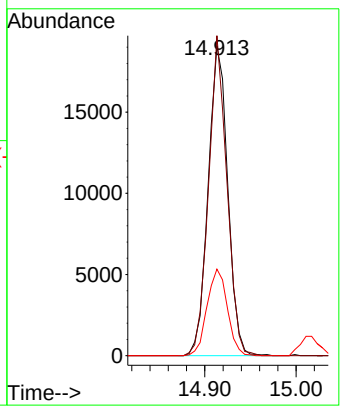





#93
1,2,4-Trichlorobenzene
Concen: 4.576 ug/l
RT: 14.913 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:180 Resp: 2839

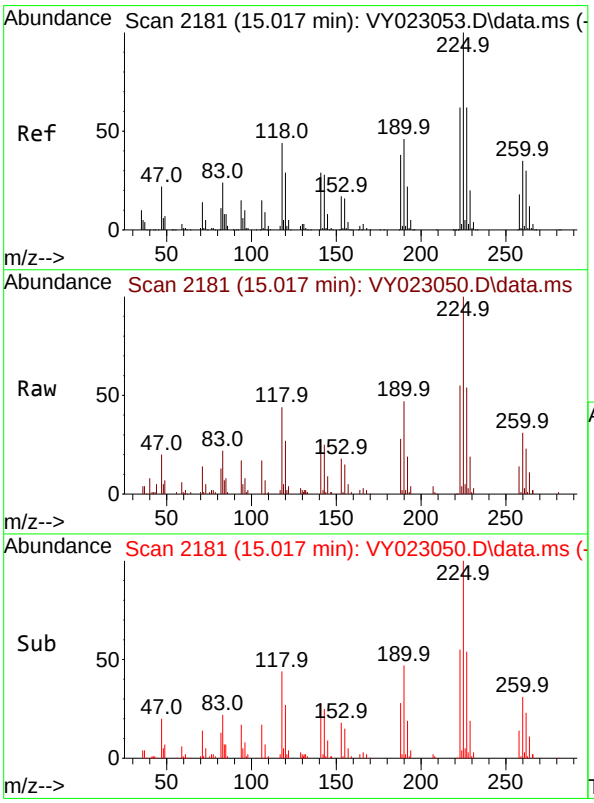
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.6 | 46.8 | 140.4 |
| 145 | 28.9 | 14.4 | 43.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

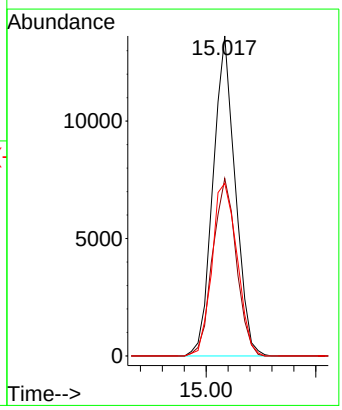
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

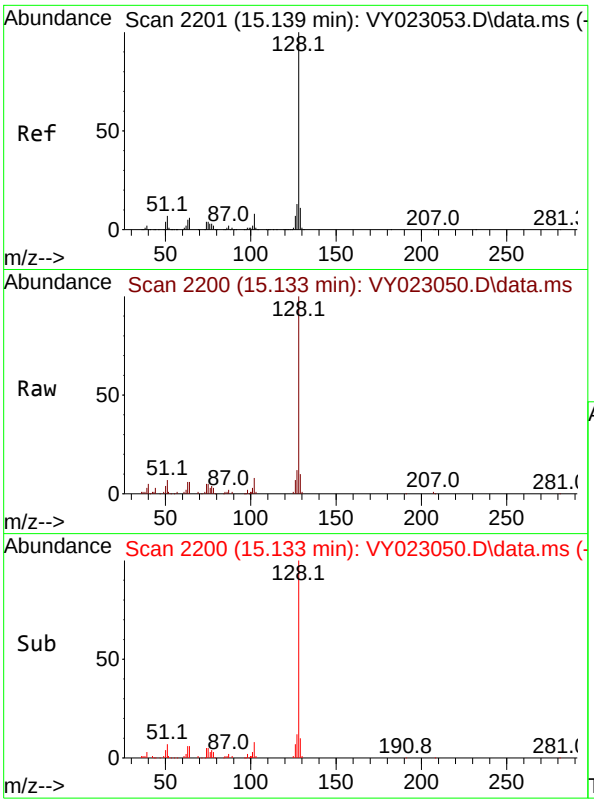



#94
Hexachlorobutadiene
Concen: 5.263 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:225 Resp: 19196

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 58.9 | 31.3 | 93.8 |
| 227 | 61.0 | 31.5 | 94.5 |

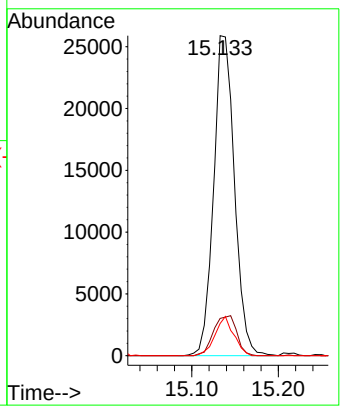





#95
Naphthalene
Concen: 4.100 ug/l
RT: 15.133 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:128 Resp: 4339

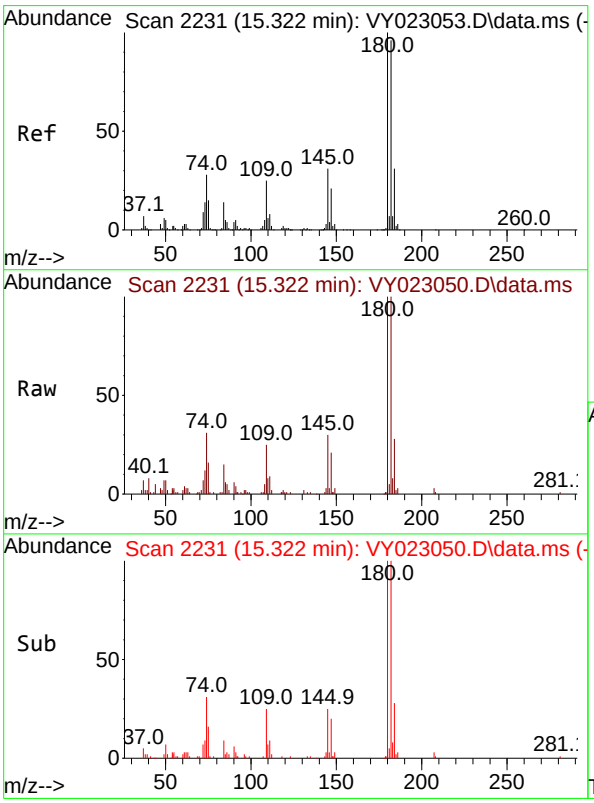
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.8 | 10.4 | 15.6 |
| 129 | 10.9 | 9.0 | 13.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

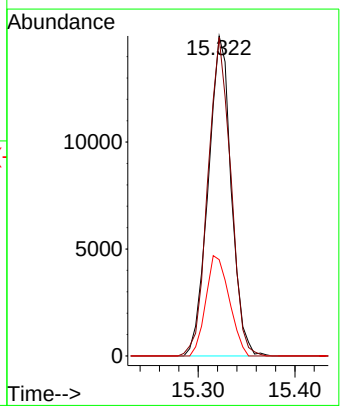
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025




#96
1,2,3-Trichlorobenzene
Concen: 4.619 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:180 Resp: 24703

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 98.4 | 47.9 | 143.7 |
| 145 | 31.9 | 15.9 | 47.7 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023051.D
Acq On : 12 Aug 2025 15:17
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:51:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Pentafluorobenzene | 7.701 | 168 | 551522 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 8.609 | 114 | 883548 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.408 | 117 | 761327 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 365647 | 50.000 | ug/l | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 54002 | 10.274 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 20.540%# | | | |
| 35) Dibromofluoromethane | 7.628 | 113 | 52916 | 10.009 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 20.020%# | | | |
| 50) Toluene-d8 | 10.103 | 98 | 204532 | 9.903 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 19.800%# | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 64927 | 9.775 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = | 19.540%# | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.861 | 85 | 51022 | 11.334 | ug/l | | 95 |
| 3) Chloromethane | 2.068 | 50 | 77982 | 10.695 | ug/l | | 97 |
| 4) Vinyl Chloride | 2.202 | 62 | 95983 | 10.649 | ug/l | | 99 |
| 5) Bromomethane | 2.592 | 94 | 70415 | 10.461 | ug/l | | 99 |
| 6) Chloroethane | 2.732 | 64 | 62514 | 10.432 | ug/l | | 97 |
| 7) Trichlorofluoromethane | 3.049 | 101 | 115150 | 10.507 | ug/l | | 94 |
| 8) Diethyl Ether | 3.452 | 74 | 30390 | 10.481 | ug/l | | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 3.812 | 101 | 57210 | 10.581 | ug/l | | 100 |
| 10) Methyl Iodide | 4.001 | 142 | 54184 | 9.287 | ug/l | | 99 |
| 11) Tert butyl alcohol | 4.866 | 59 | 20212 | 56.119 | ug/l | | 99 |
| 12) 1,1-Dichloroethene | 3.781 | 96 | 55669 | 10.475 | ug/l | | 92 |
| 13) Acrolein | 3.647 | 56 | 30081 | 57.030 | ug/l | | 97 |
| 14) Allyl chloride | 4.372 | 41 | 79145 | 10.121 | ug/l | | 98 |
| 15) Acrylonitrile | 5.049 | 53 | 62889 | 53.349 | ug/l | | 99 |
| 16) Acetone | 3.873 | 43 | 61290 | 53.821 | ug/l | | 94 |
| 17) Carbon Disulfide | 4.098 | 76 | 183399 | 10.583 | ug/l | | 98 |
| 18) Methyl Acetate | 4.385 | 43 | 33996 | 10.032 | ug/l | | 99 |
| 19) Methyl tert-butyl Ether | 5.110 | 73 | 139820 | 10.153 | ug/l | | 95 |
| 20) Methylene Chloride | 4.604 | 84 | 77920 | 11.095 | ug/l | | 97 |
| 21) trans-1,2-Dichloroethene | 5.110 | 96 | 61826 | 10.352 | ug/l | | 100 |
| 22) Diisopropyl ether | 6.012 | 45 | 172602 | 10.157 | ug/l | | 93 |
| 23) Vinyl Acetate | 5.957 | 43 | 482714 | 51.372 | ug/l | | 98 |
| 24) 1,1-Dichloroethane | 5.903 | 63 | 106831 | 10.282 | ug/l | | 99 |
| 25) 2-Butanone | 6.896 | 43 | 83923 | 54.187 | ug/l | | 96 |
| 26) 2,2-Dichloropropane | 6.878 | 77 | 91579 | 10.215 | ug/l | | 100 |
| 27) cis-1,2-Dichloroethene | 6.884 | 96 | 68839 | 9.970 | ug/l | | 99 |
| 28) Bromochloromethane | 7.238 | 49 | 41820 | 10.146 | ug/l | | 100 |
| 29) Tetrahydrofuran | 7.262 | 42 | 49926 | 52.005 | ug/l | | 99 |
| 30) Chloroform | 7.415 | 83 | 109942 | 10.260 | ug/l | | 93 |
| 31) Cyclohexane | 7.701 | 56 | 103068 | 10.527 | ug/l | # | 89 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 96693 | 10.170 | ug/l | | 98 |
| 36) 1,1-Dichloropropene | 7.829 | 75 | 80479 | 10.243 | ug/l | | 99 |
| 37) Ethyl Acetate | 6.982 | 43 | 34854 | 10.560 | ug/l | | 97 |
| 38) Carbon Tetrachloride | 7.811 | 117 | 85932 | 10.070 | ug/l | | 97 |
| 39) Methylcyclohexane | 9.103 | 83 | 102275 | 9.885 | ug/l | | 99 |
| 40) Benzene | 8.073 | 78 | 243060 | 10.037 | ug/l | | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023051.D
Acq On : 12 Aug 2025 15:17
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 13 01:51:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.213 | 41 | 18825 | 9.872 | ug/l | # | 89 |
| 42) 1,2-Dichloroethane | 8.152 | 62 | 65350 | 10.376 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.195 | 43 | 67669 | 10.144 | ug/l | | 99 |
| 44) Trichloroethene | 8.859 | 130 | 62689 | 10.017 | ug/l | | 98 |
| 45) 1,2-Dichloropropane | 9.134 | 63 | 56720 | 10.179 | ug/l | | 97 |
| 46) Dibromomethane | 9.225 | 93 | 33460 | 10.462 | ug/l | | 98 |
| 47) Bromodichloromethane | 9.420 | 83 | 81951 | 9.959 | ug/l | | 97 |
| 48) Methyl methacrylate | 9.213 | 41 | 31851 | 9.978 | ug/l | | 96 |
| 49) 1,4-Dioxane | 9.231 | 88 | 7705 | 205.471 | ug/l | | 94 |
| 51) 4-Methyl-2-Pentanone | 9.993 | 43 | 177157 | 51.484 | ug/l | | 98 |
| 52) Toluene | 10.164 | 92 | 150422 | 9.780 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 72507 | 9.730 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 85945 | 9.753 | ug/l | | 100 |
| 55) 1,1,2-Trichloroethane | 10.566 | 97 | 42712 | 9.981 | ug/l | | 97 |
| 56) Ethyl methacrylate | 10.432 | 69 | 52746 | 9.632 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 74433 | 10.256 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 119417 | 46.232 | ug/l | | 98 |
| 59) 2-Hexanone | 10.755 | 43 | 118452 | 50.553 | ug/l | | 99 |
| 60) Dibromochloromethane | 10.902 | 129 | 56045 | 9.925 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.011 | 107 | 41009 | 10.196 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.640 | 164 | 70502 | 10.371 | ug/l | | 98 |
| 65) Chlorobenzene | 11.438 | 112 | 162985 | 9.925 | ug/l | | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 11.511 | 131 | 54856 | 9.842 | ug/l | | 97 |
| 67) Ethyl Benzene | 11.511 | 91 | 273281 | 9.670 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.621 | 106 | 212766 | 19.277 | ug/l | | 99 |
| 69) o-Xylene | 11.950 | 106 | 97841 | 9.465 | ug/l | | 98 |
| 70) Styrene | 11.963 | 104 | 155809 | 9.216 | ug/l | | 99 |
| 71) Bromoform | 12.127 | 173 | 32470 | 9.968 | ug/l | # | 97 |
| 73) Isopropylbenzene | 12.249 | 105 | 254745 | 9.871 | ug/l | | 99 |
| 74) N-amyl acetate | 12.066 | 43 | 53943 | 9.857 | ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.499 | 83 | 47304 | 10.735 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.548 | 75 | 35353m | 10.012 | ug/l | | |
| 77) Bromobenzene | 12.523 | 156 | 60728 | 9.864 | ug/l | | 96 |
| 78) n-propylbenzene | 12.590 | 91 | 303440 | 9.876 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 175364 | 9.962 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.731 | 105 | 205544 | 9.855 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.298 | 75 | 15715 | 10.780 | ug/l | | 96 |
| 82) 4-Chlorotoluene | 12.767 | 91 | 181812 | 9.956 | ug/l | | 99 |
| 83) tert-Butylbenzene | 12.993 | 119 | 181408 | 9.630 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.035 | 105 | 201812 | 9.720 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.170 | 105 | 274178 | 9.908 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.285 | 119 | 217799 | 9.482 | ug/l | | 98 |
| 87) 1,3-Dichlorobenzene | 13.279 | 146 | 120109 | 9.893 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.359 | 146 | 121160 | 10.060 | ug/l | | 97 |
| 89) n-Butylbenzene | 13.609 | 91 | 205420 | 9.737 | ug/l | | 98 |
| 90) Hexachloroethane | 13.871 | 117 | 47353 | 10.071 | ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 13.651 | 146 | 107656 | 10.110 | ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.267 | 75 | 7032 | 10.250 | ug/l | | 98 |
| 93) 1,2,4-Trichlorobenzene | 14.913 | 180 | 61323 | 9.739 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.017 | 225 | 37011 | 10.003 | ug/l | | 99 |
| 95) Naphthalene | 15.139 | 128 | 99780 | 9.293 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.322 | 180 | 53626 | 9.883 | ug/l | | 96 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023051.D
Acq On : 12 Aug 2025 15:17
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:51:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

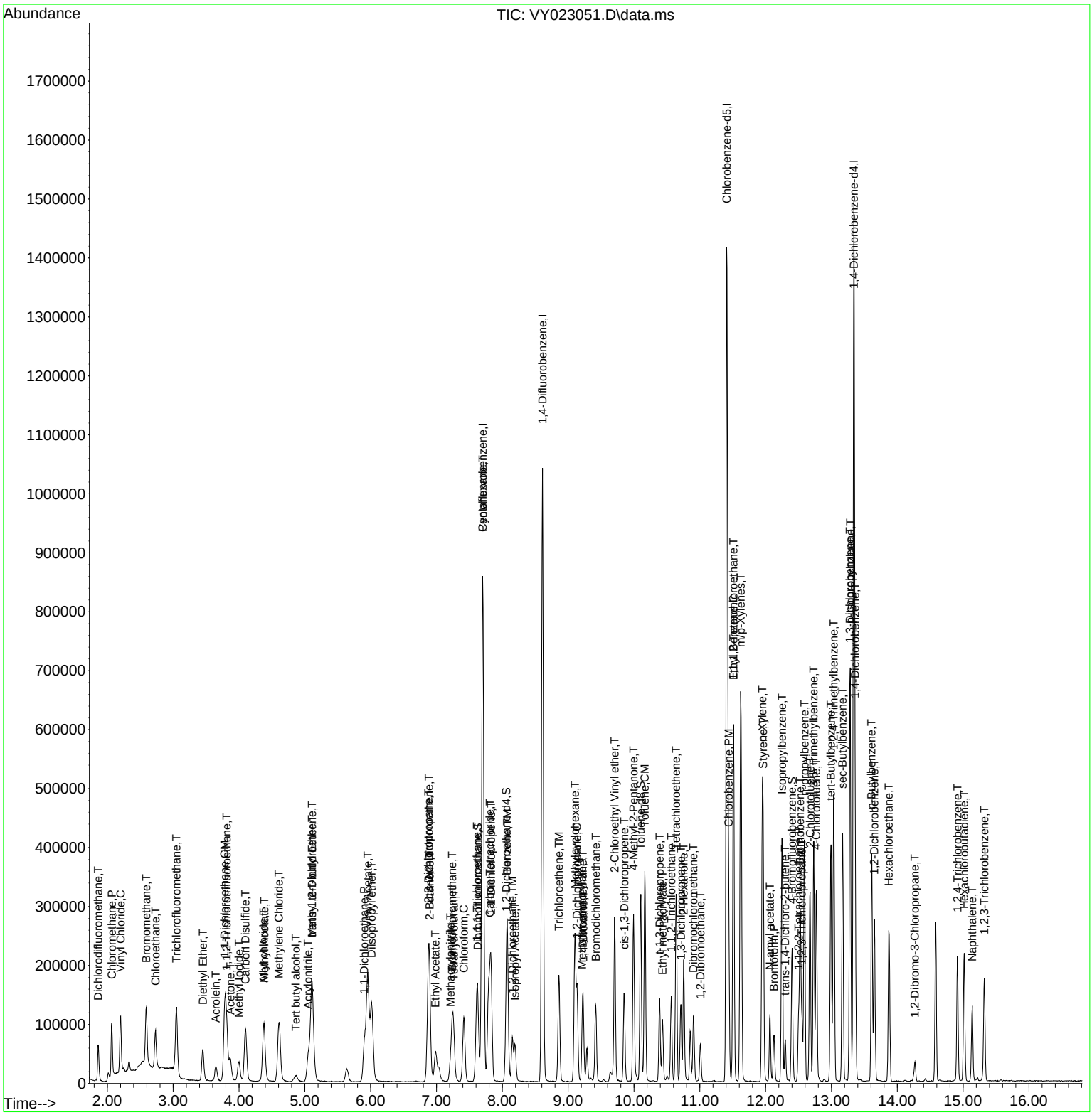
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023051.D
Acq On : 12 Aug 2025 15:17
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

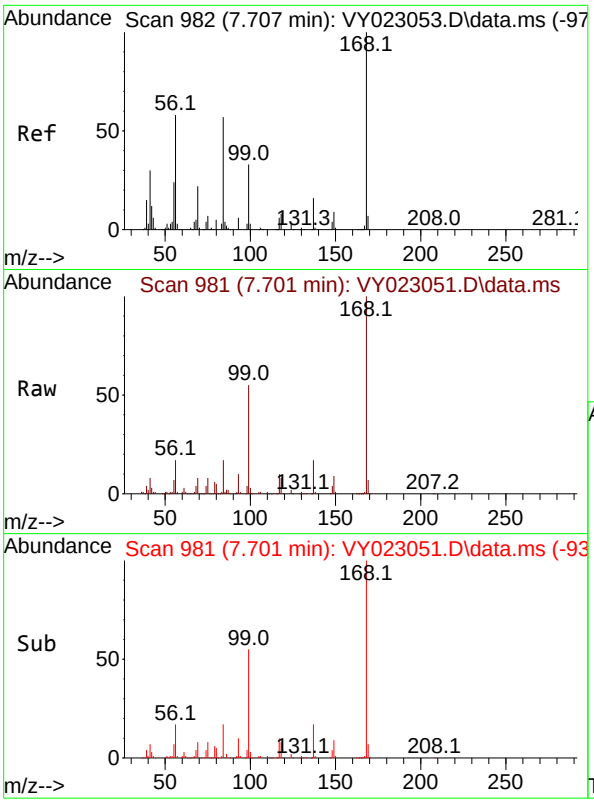
Quant Time: Aug 13 01:51:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

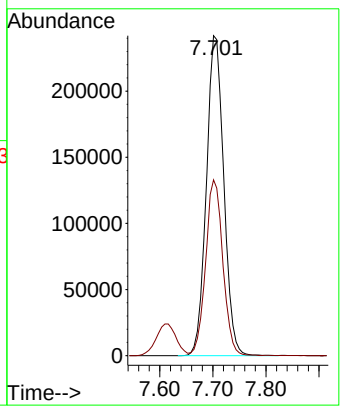





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:168 Resp: 55152

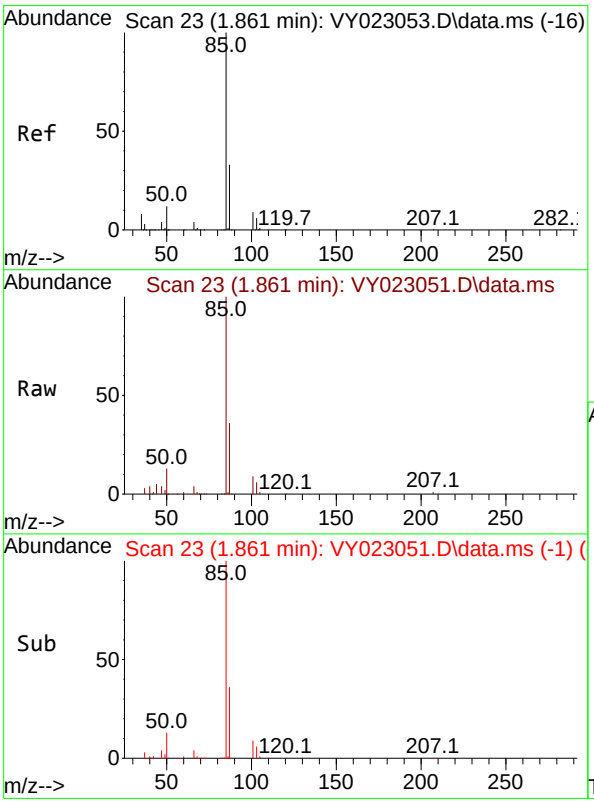
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 54.9 | 42.8 | 64.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

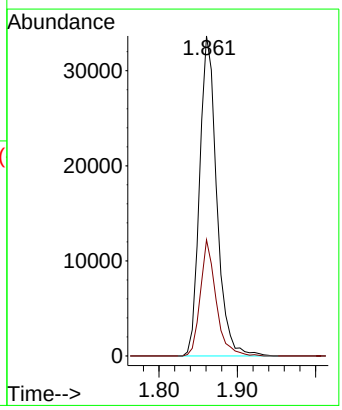
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

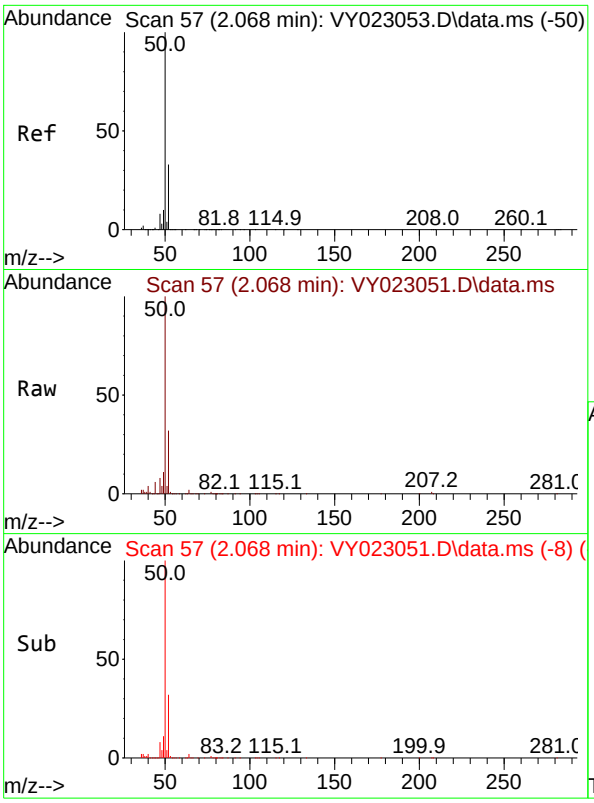



#2
Dichlorodifluoromethane
Concen: 11.334 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 85 Resp: 51022

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 36.3 | 16.6 | 49.8 |

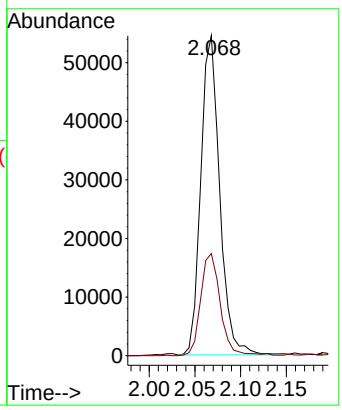





#3
Chloromethane
Concen: 10.695 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 50 Resp: 7798

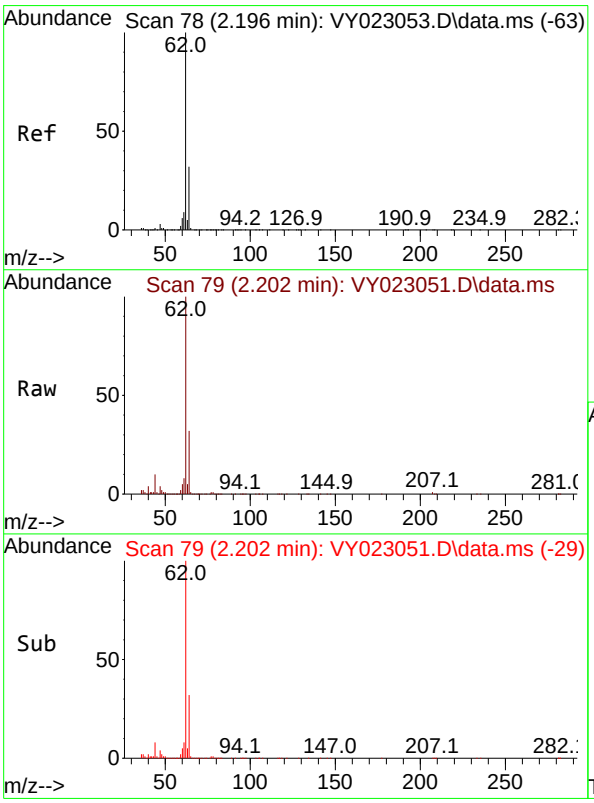
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.0 | 26.7 | 40.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

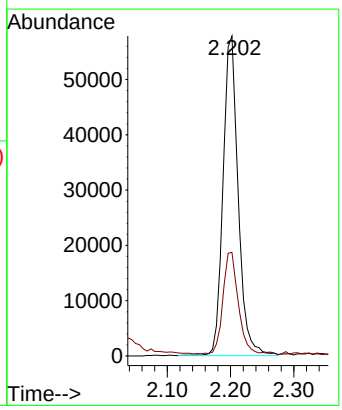
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

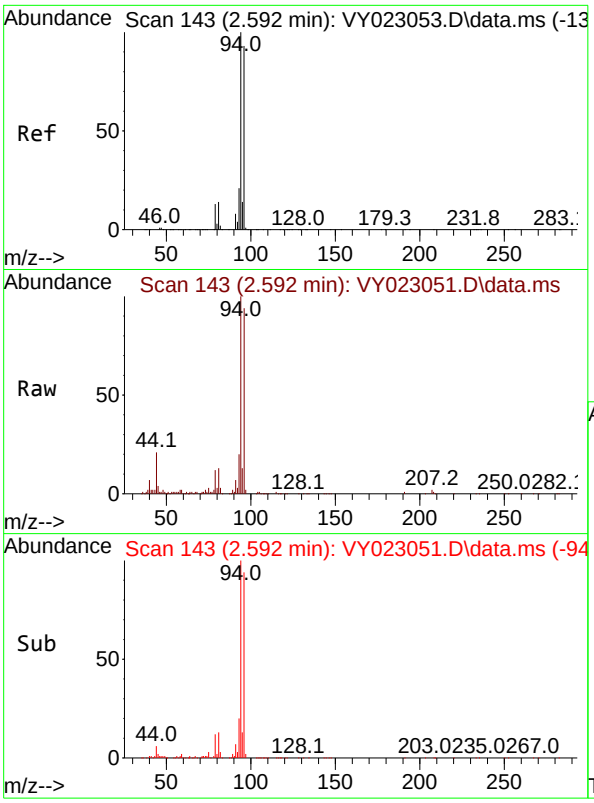



#4
Vinyl Chloride
Concen: 10.649 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 62 Resp: 95983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.0 | 25.4 | 38.0 |






#5
Bromomethane
Concen: 10.461 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

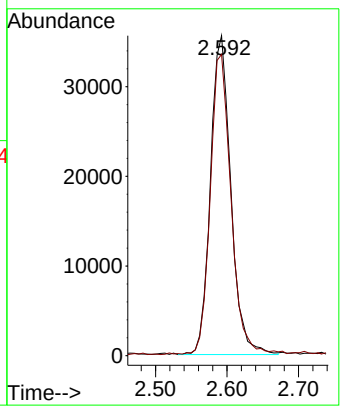
Tgt Ion: 94 Resp: 7041

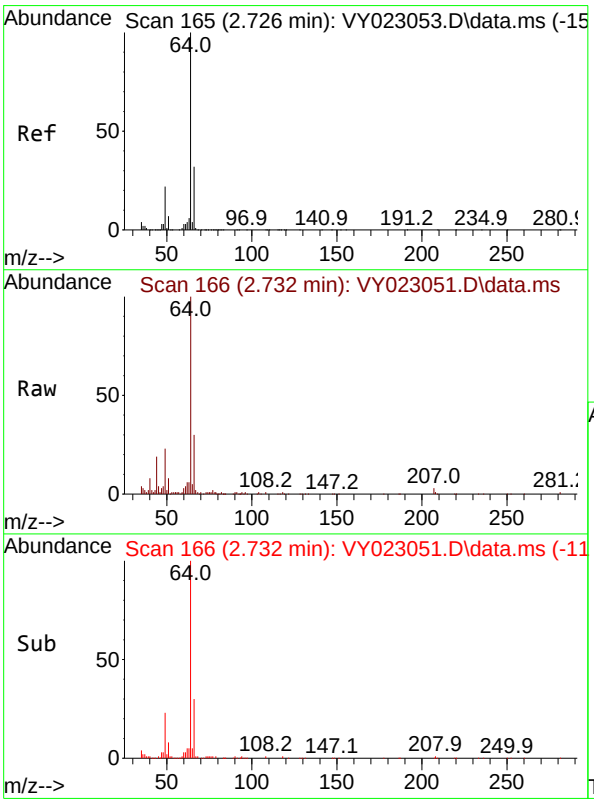
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 93.8 | 74.6 | 112.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

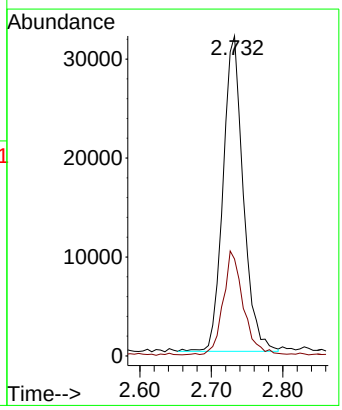


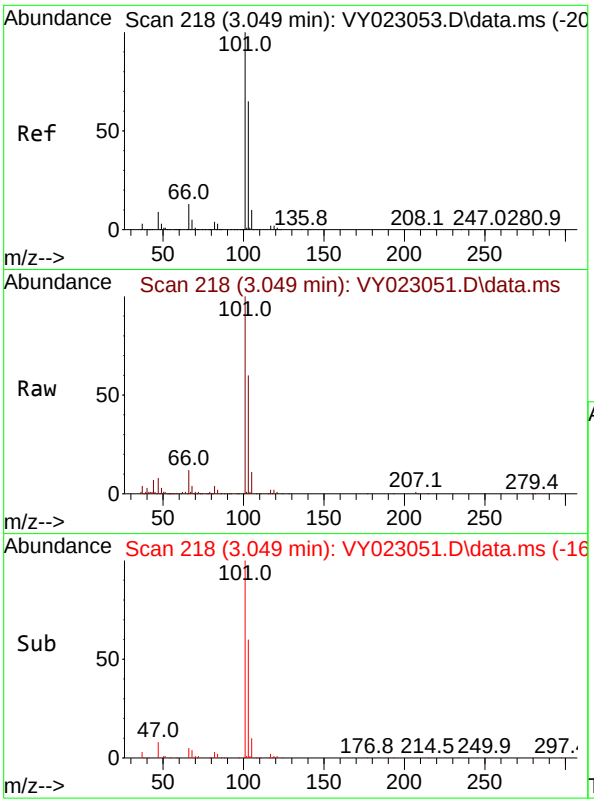




#6
Chloroethane
Concen: 10.432 ug/l
RT: 2.732 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 64 Resp: 62514

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.4 | 25.8 | 38.6 |

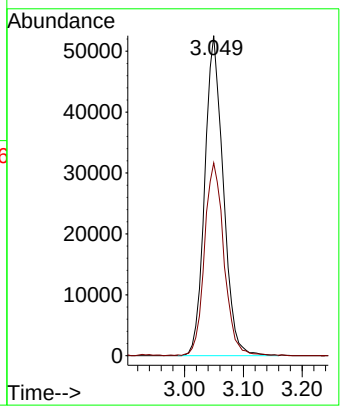





#7
Trichlorofluoromethane
Concen: 10.507 ug/l
RT: 3.049 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:101 Resp: 11515

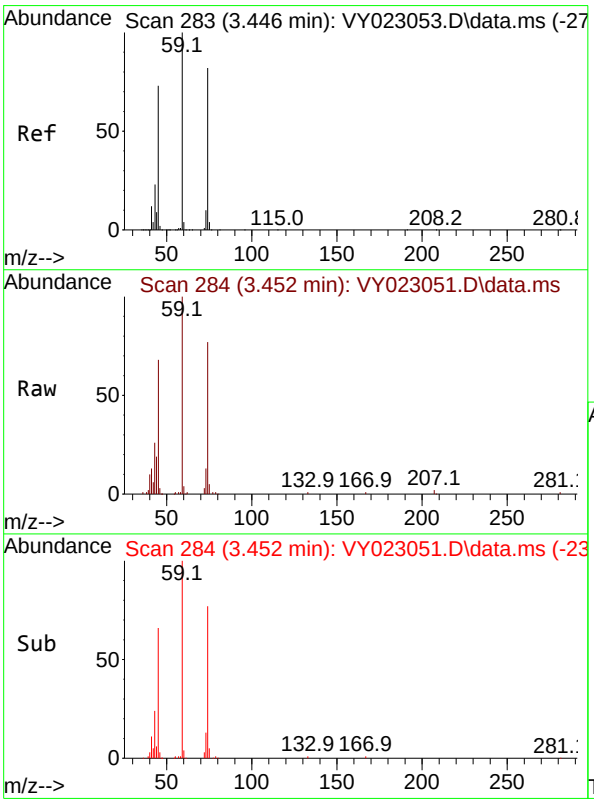
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 60.1 | 51.9 | 77.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

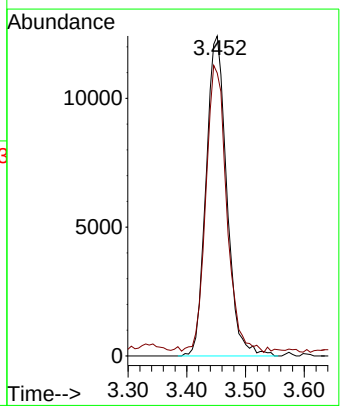
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

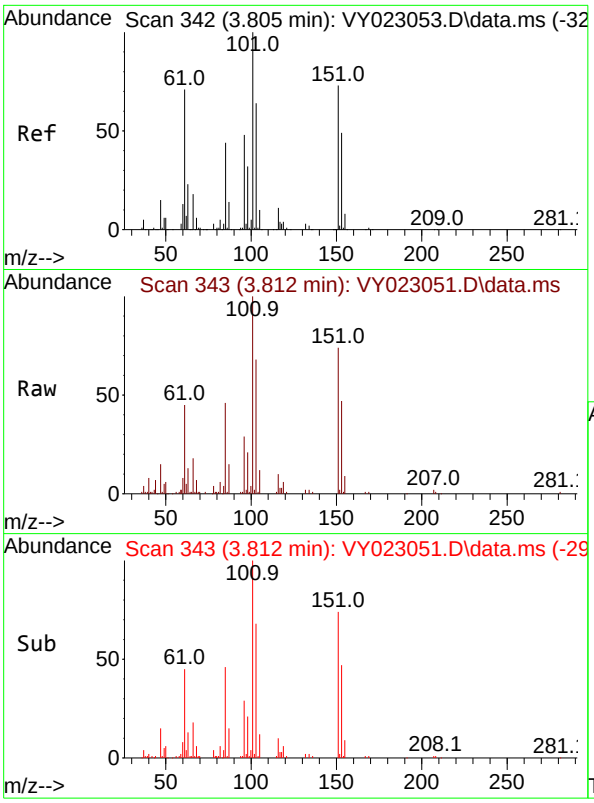



#8
Diethyl Ether
Concen: 10.481 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 74 Resp: 30390

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 90.2 | 44.4 | 133.2 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 10.581 ug/l
RT: 3.812 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

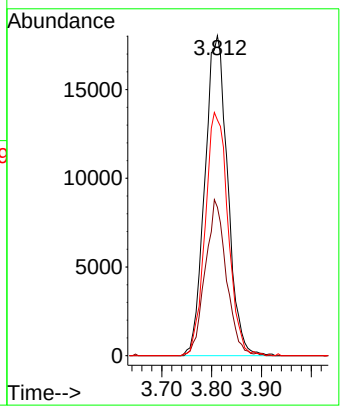
Tgt Ion:101 Resp: 5721

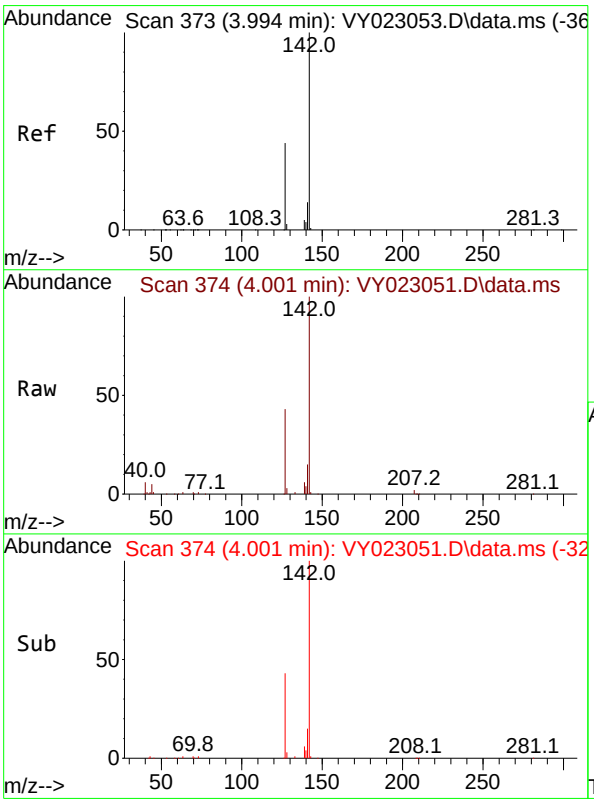
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 45.3 | 36.3 | 54.5 |
| 151 | 76.3 | 61.5 | 92.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

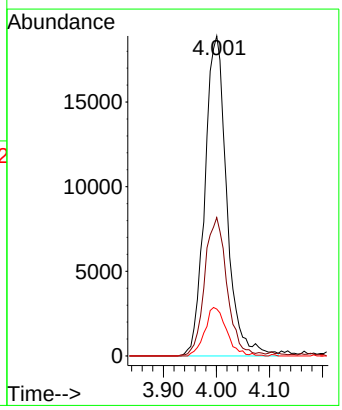


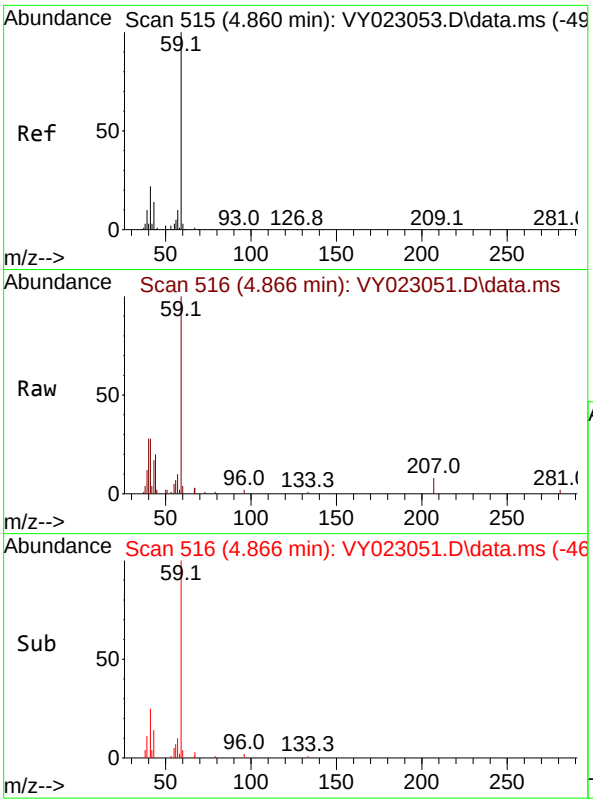




#10
Methyl Iodide
Concen: 9.287 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:142 Resp: 54184

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 44.3 | 34.9 | 52.3 |
| 141 | 14.9 | 11.3 | 16.9 |

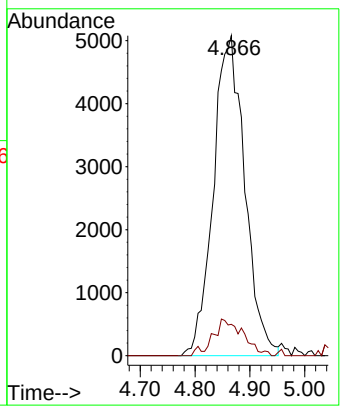





#11
Tert butyl alcohol
Concen: 56.119 ug/l
RT: 4.866 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 59 Resp: 2021

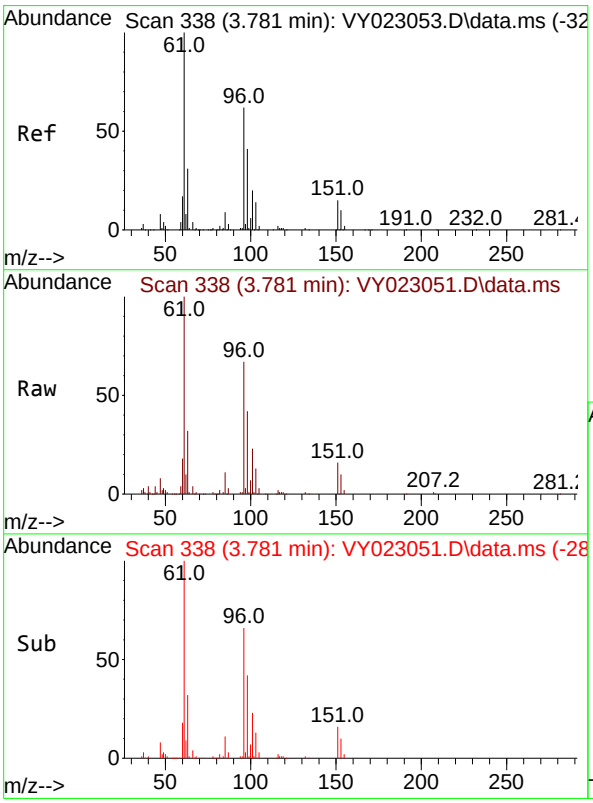
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.3 | 8.6 | 13.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

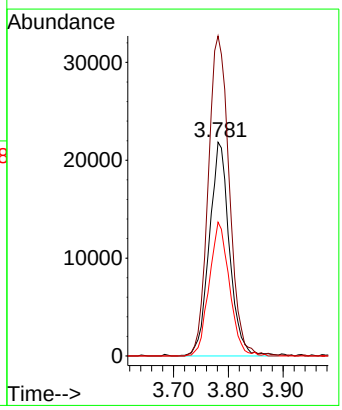
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

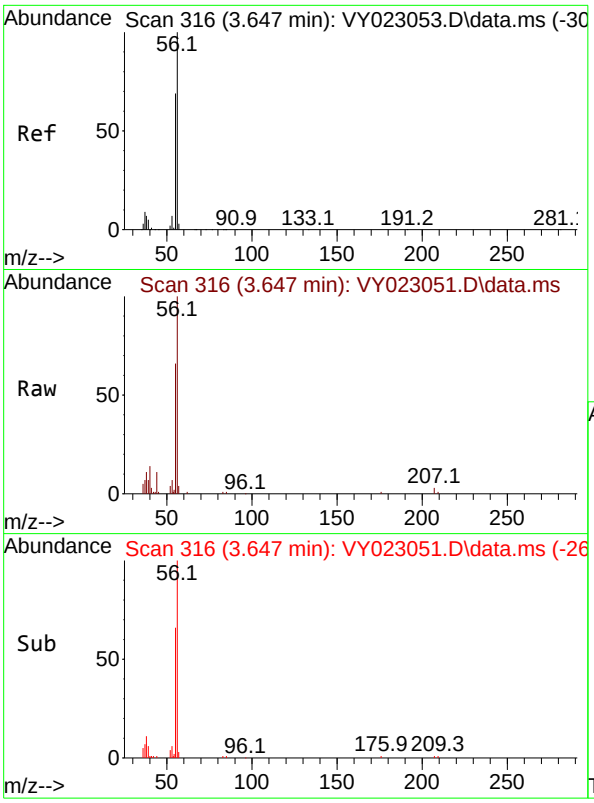



#12
1,1-Dichloroethene
Concen: 10.475 ug/l
RT: 3.781 min Scan# 338
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 96 Resp: 55669

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 149.7 | 129.4 | 194.2 |
| 98 | 62.6 | 52.8 | 79.2 |






#13
Acrolein
Concen: 57.030 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

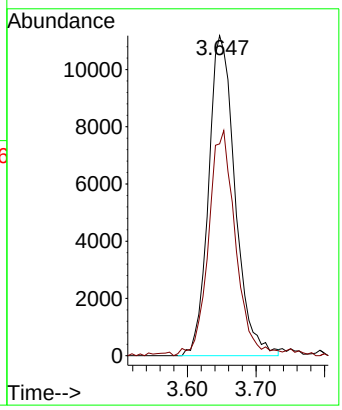
Tgt Ion: 56 Resp: 3008

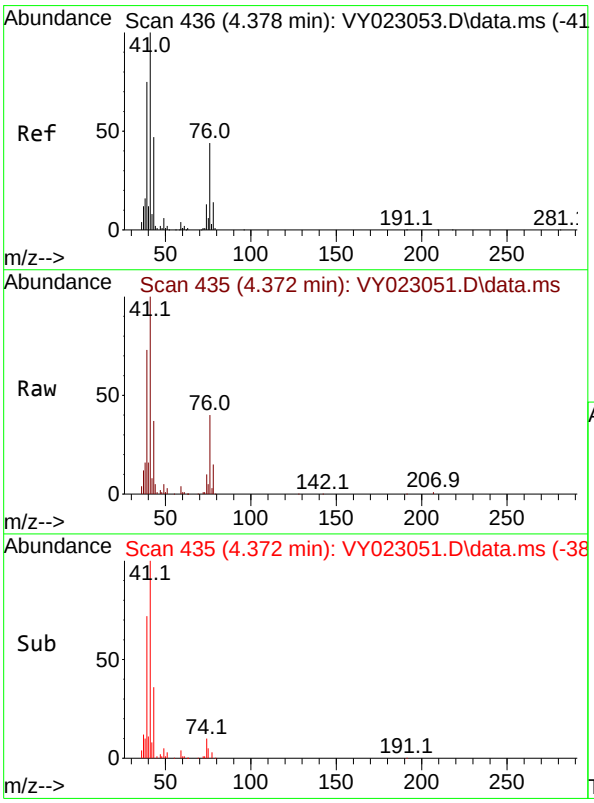
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 71.2 | 55.2 | 82.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

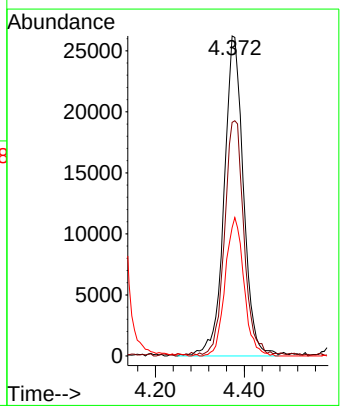


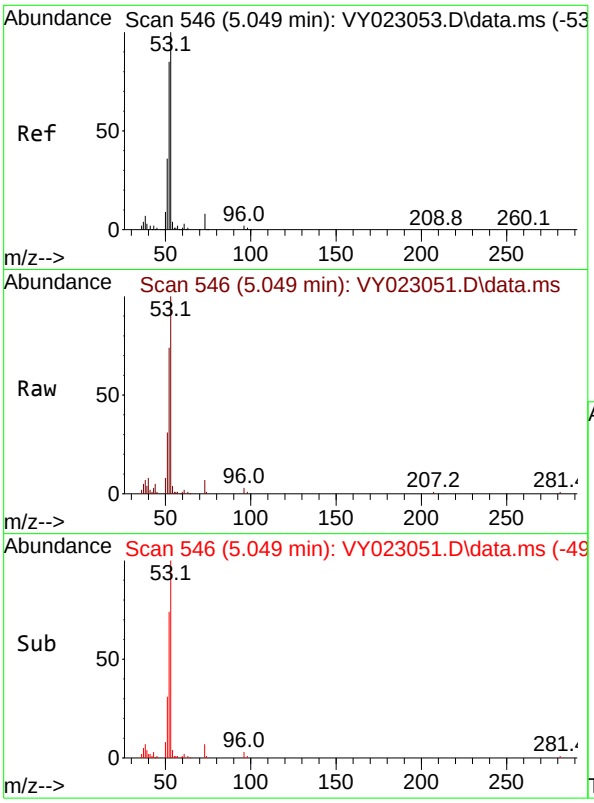




#14
Allyl chloride
Concen: 10.121 ug/l
RT: 4.372 min Scan# 435
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 41 Resp: 79145

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 72.7 | 59.8 | 89.6 |
| 76 | 41.9 | 33.7 | 50.5 |

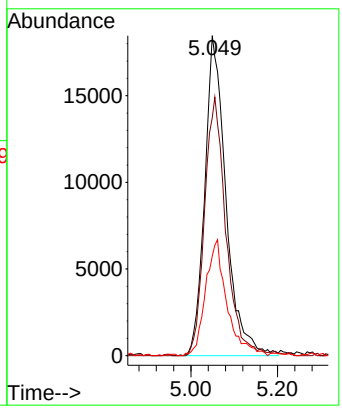





#15
Acrylonitrile
Concen: 53.349 ug/l
RT: 5.049 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 53 Resp: 6288

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.0 | 65.3 | 97.9 |
| 51 | 36.5 | 29.5 | 44.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
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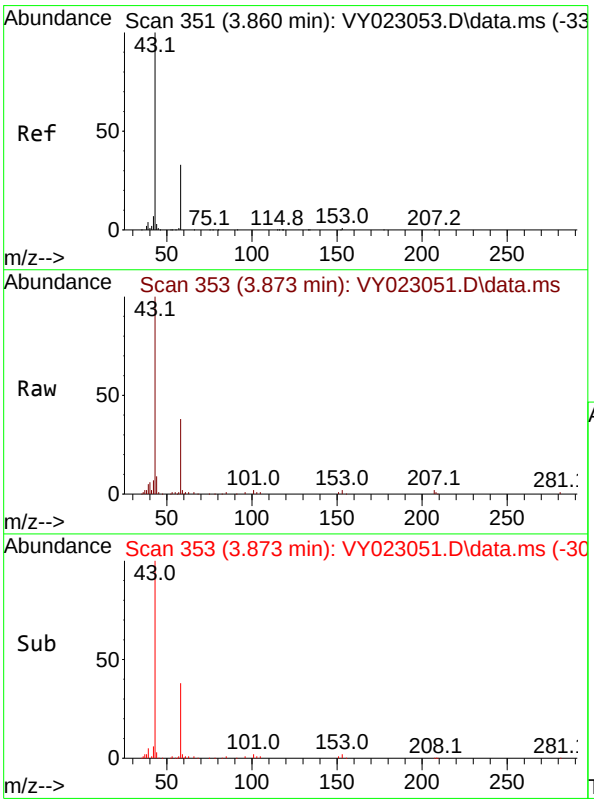
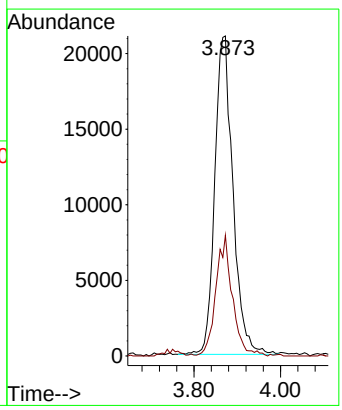
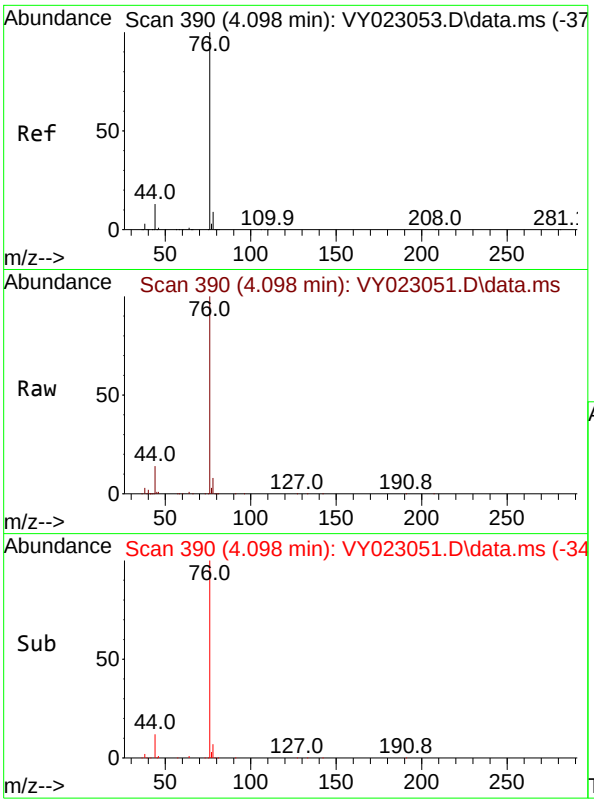



#16
Acetone
Concen: 53.821 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.012 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 43 Resp: 61290

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 37.4 | 27.1 | 40.7 |






#17
Carbon Disulfide
Concen: 10.583 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 76 Resp: 18339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.4 | 7.4 | 11.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

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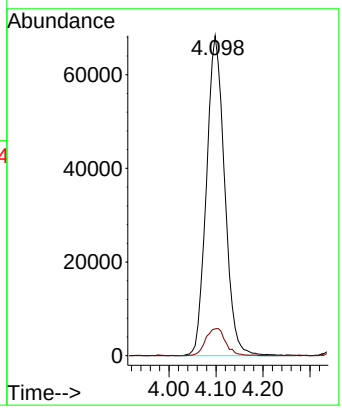
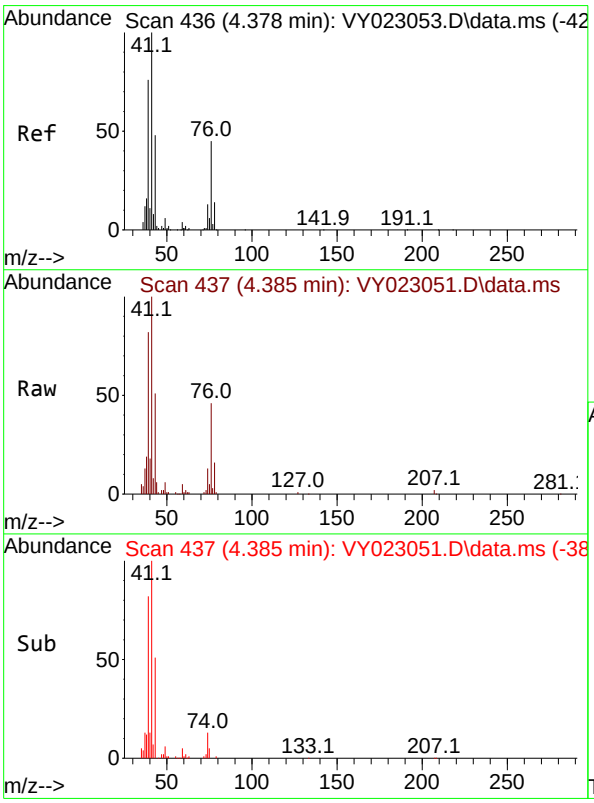
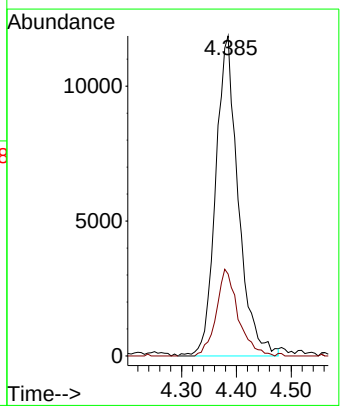


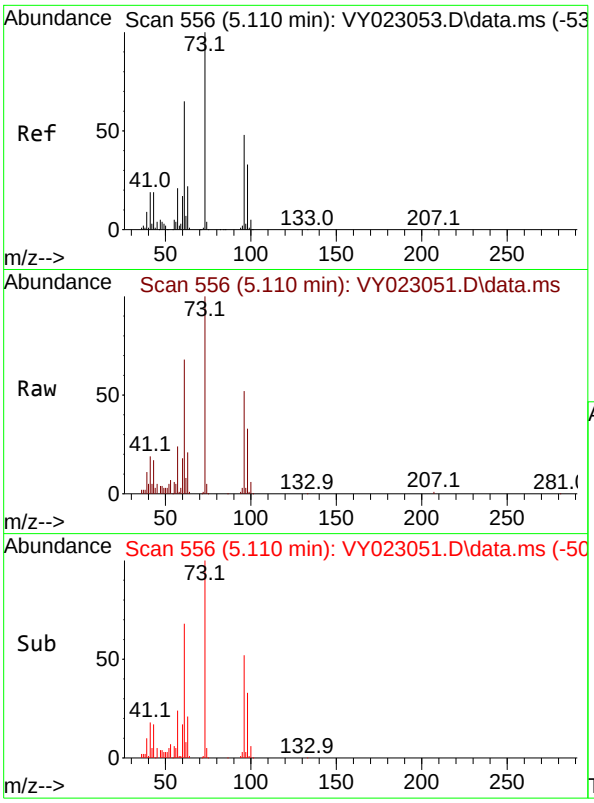




#18
Methyl Acetate
Concen: 10.032 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 43 Resp: 33996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 26.2 | 21.2 | 31.8 |

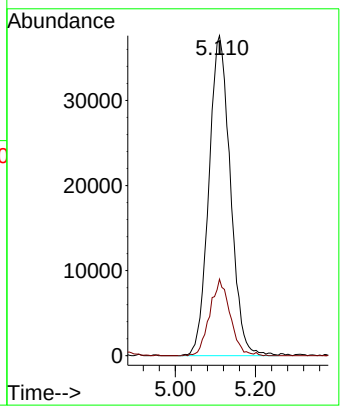





#19
Methyl tert-butyl Ether
Concen: 10.153 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 73 Resp: 13982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 23.9 | 17.1 | 25.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
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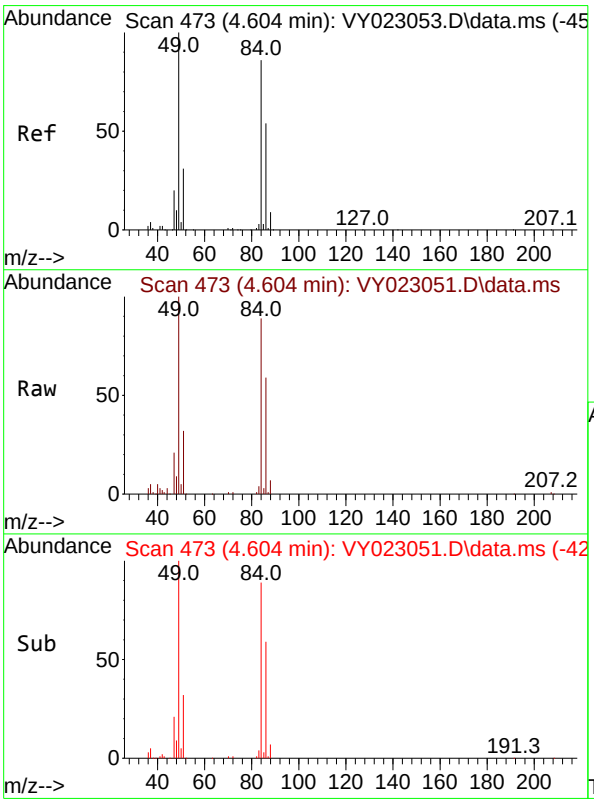
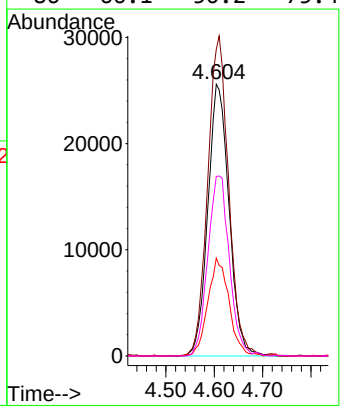
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

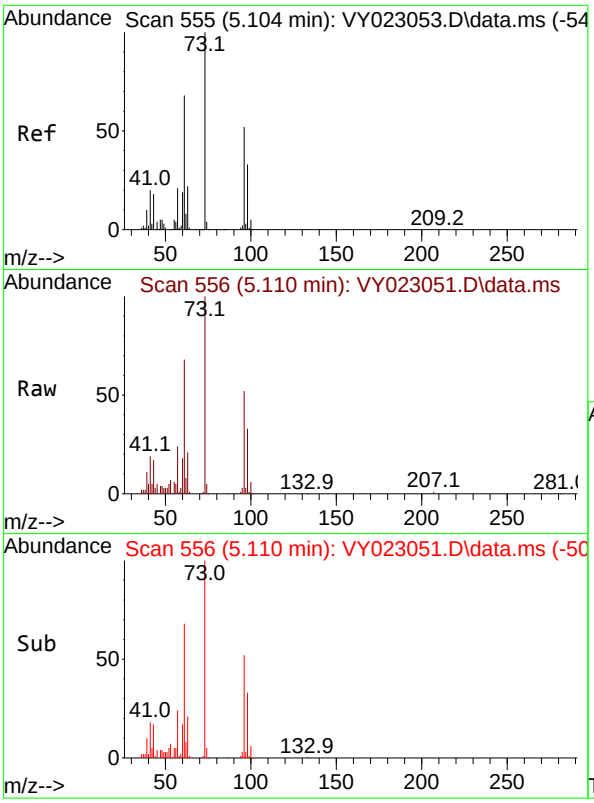



#20
Methylene Chloride
Concen: 11.095 ug/l
RT: 4.604 min Scan# 473
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 84 Resp: 77920

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 112.8 | 93.0 | 139.6 |
| 51 | 36.1 | 29.0 | 43.4 |
| 86 | 66.1 | 50.2 | 75.4 |

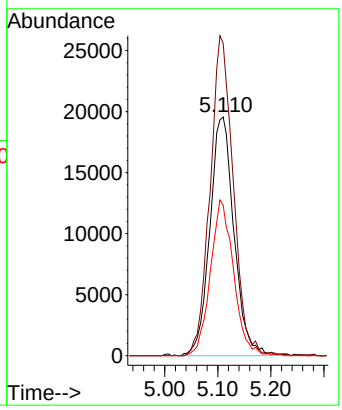





#21
trans-1,2-Dichloroethene
Concen: 10.352 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 96 Resp: 6182

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 130.8 | 104.8 | 157.2 |
| 98 | 63.0 | 50.1 | 75.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

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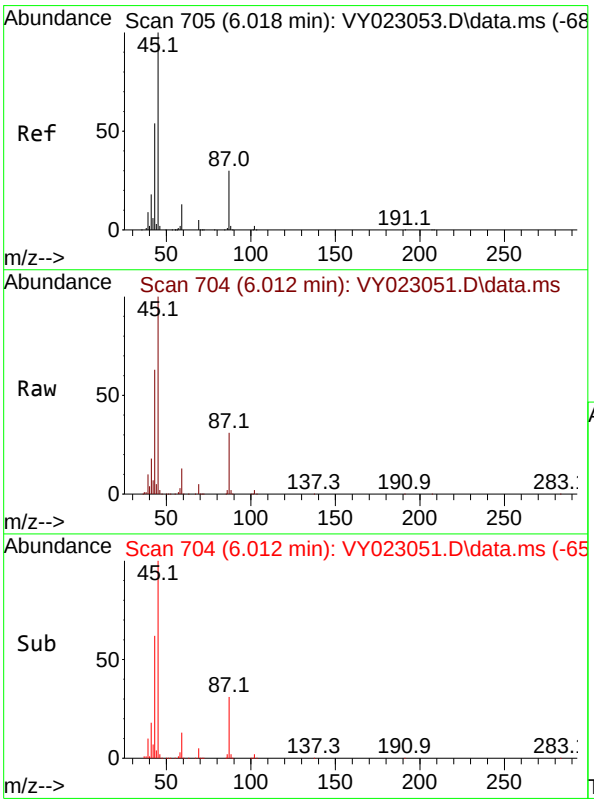
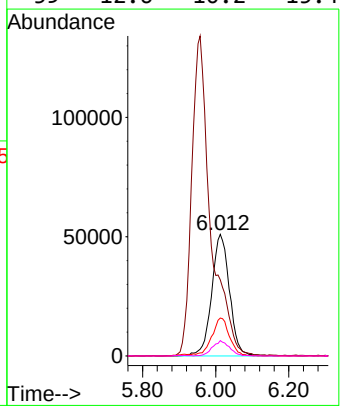
Supervised By :Semsettin Yesilyurt 08/14/2025

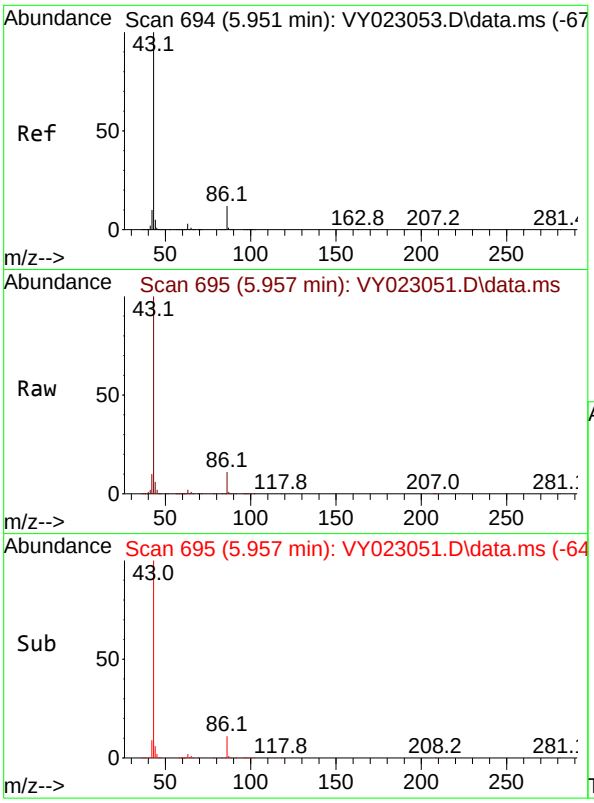



#22
Diisopropyl ether
Concen: 10.157 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 45 Resp: 172602

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 62.2 | 43.4 | 65.0 |
| 87 | 31.2 | 24.4 | 36.6 |
| 59 | 12.6 | 10.2 | 15.4 |






#23
Vinyl Acetate
Concen: 51.372 ug/l
RT: 5.957 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 43 Resp: 48271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.4 | 9.6 | 14.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

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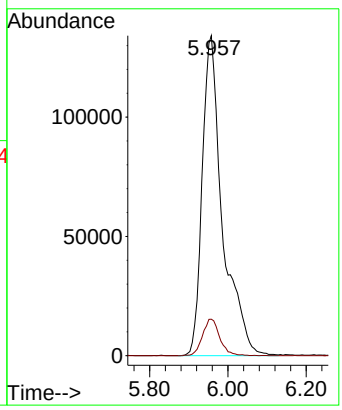
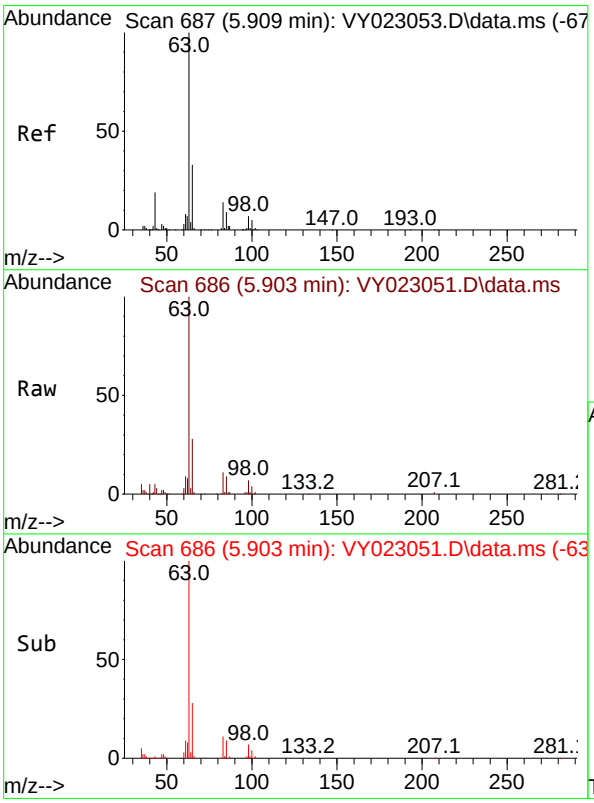
Supervised By :Semsettin Yesilyurt 08/14/2025

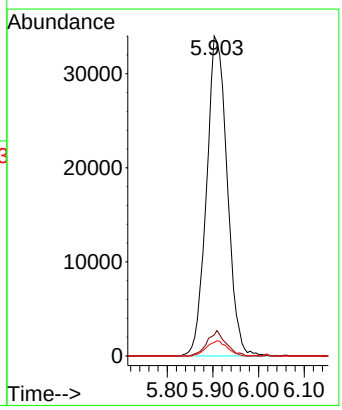


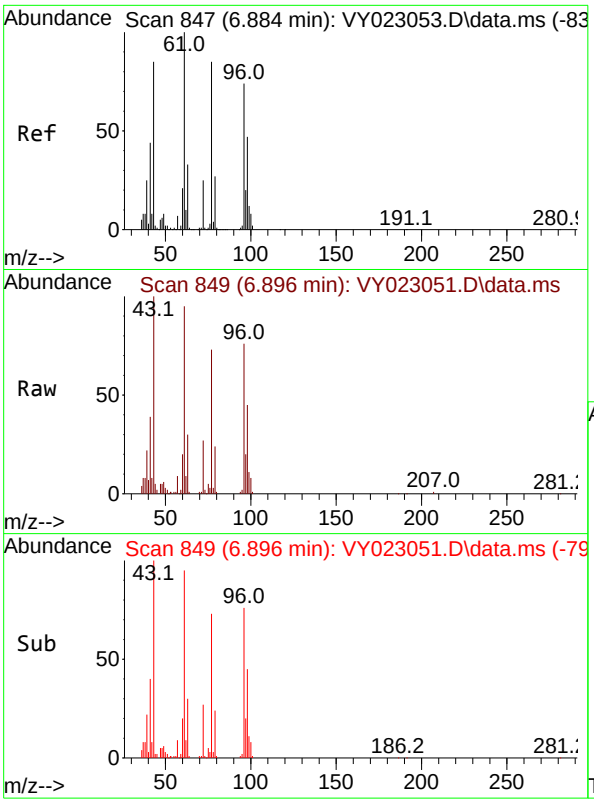




#24
1,1-Dichloroethane
Concen: 10.282 ug/l
RT: 5.903 min Scan# 686
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 63 Resp: 106831

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.6 | 3.5 | 10.6 |
| 100 | 4.2 | 2.4 | 7.1 |

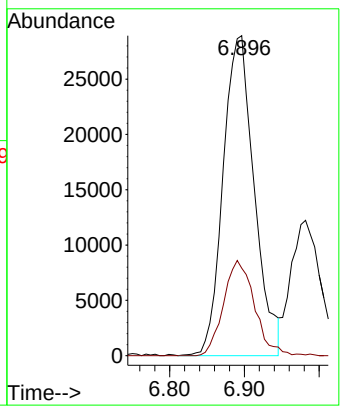





#25
2-Butanone
Concen: 54.187 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.012 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 43 Resp: 8392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 27.3 | 23.5 | 35.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
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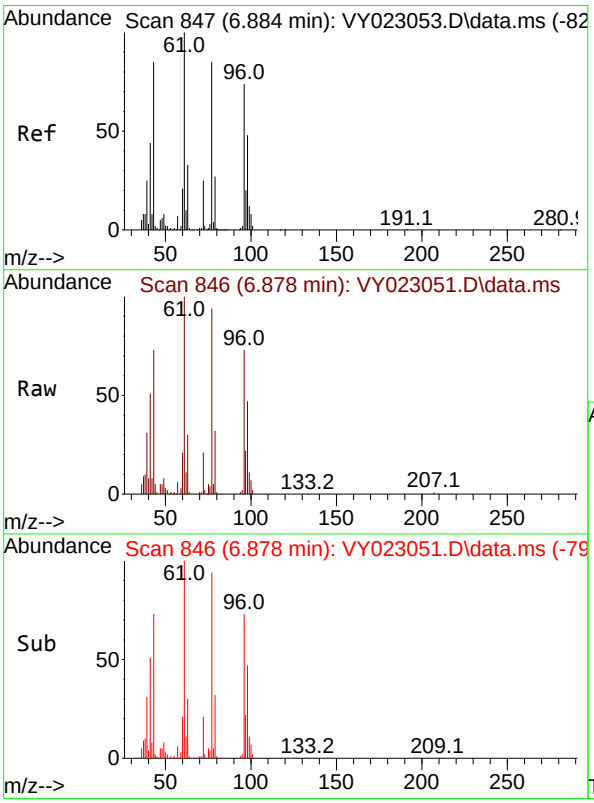
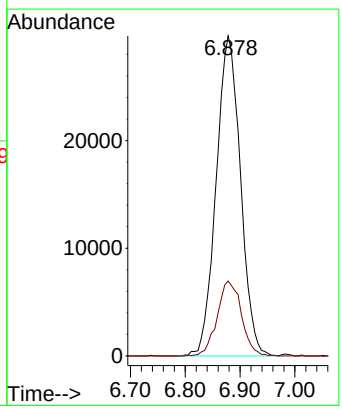
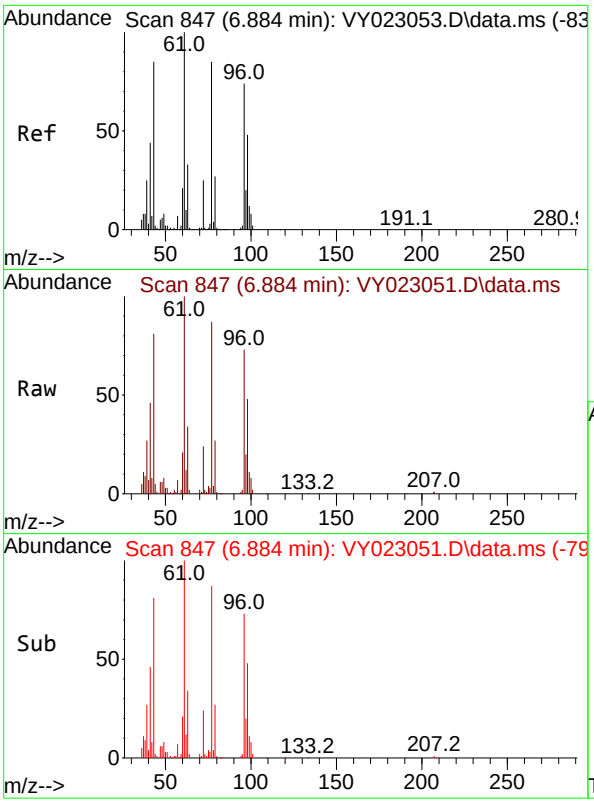



#26
2,2-Dichloropropane
Concen: 10.215 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 77 Resp: 91579

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.4 | 11.6 | 34.8 |

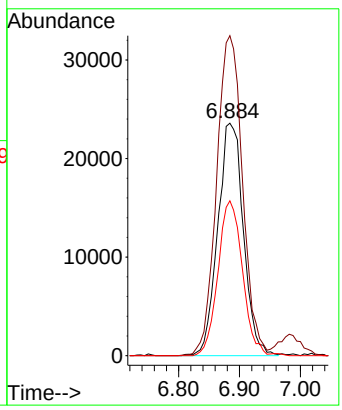





#27
cis-1,2-Dichloroethene
Concen: 9.970 ug/l
RT: 6.884 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 96 Resp: 6883

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 139.5 | 0.0 | 278.6 |
| 98 | 63.6 | 0.0 | 130.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
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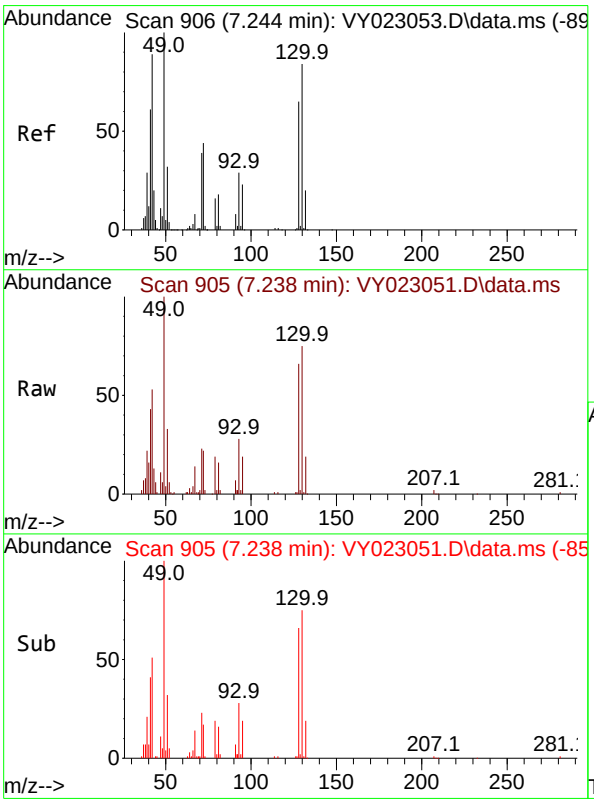
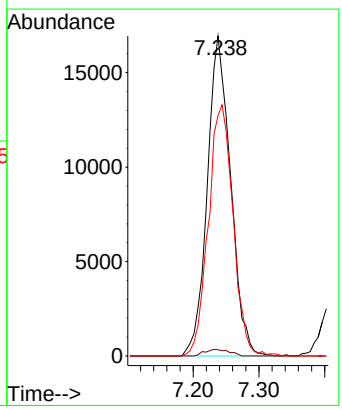
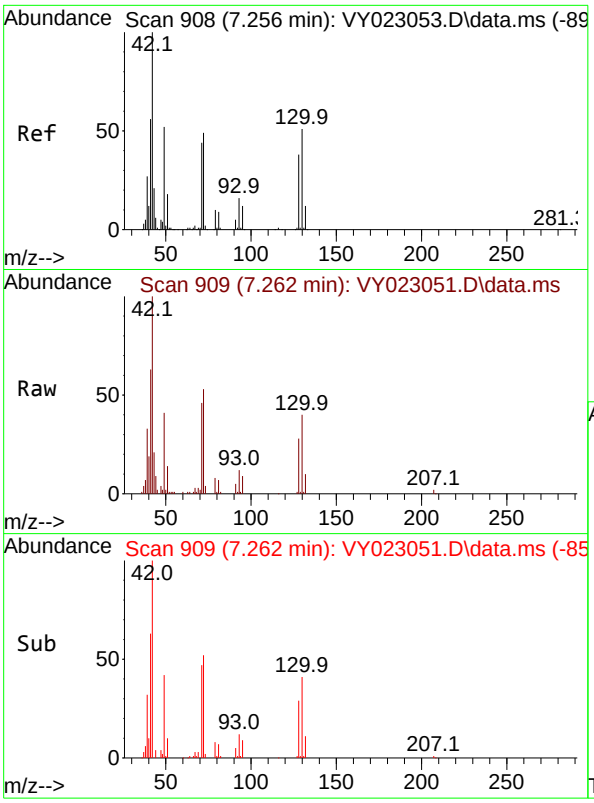



#28
Bromochloromethane
Concen: 10.146 ug/l
RT: 7.238 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 49 Resp: 41820

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.2 | 0.0 | 4.2 |
| 130 | 82.8 | 66.4 | 99.6 |

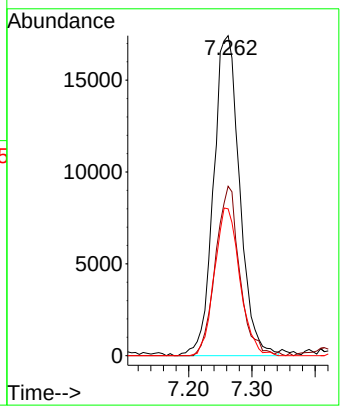





#29
Tetrahydrofuran
Concen: 52.005 ug/l
RT: 7.262 min Scan# 9(
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 42 Resp: 4992(

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 49.0 | 39.4 | 59.2 |
| 71 | 44.8 | 36.5 | 54.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

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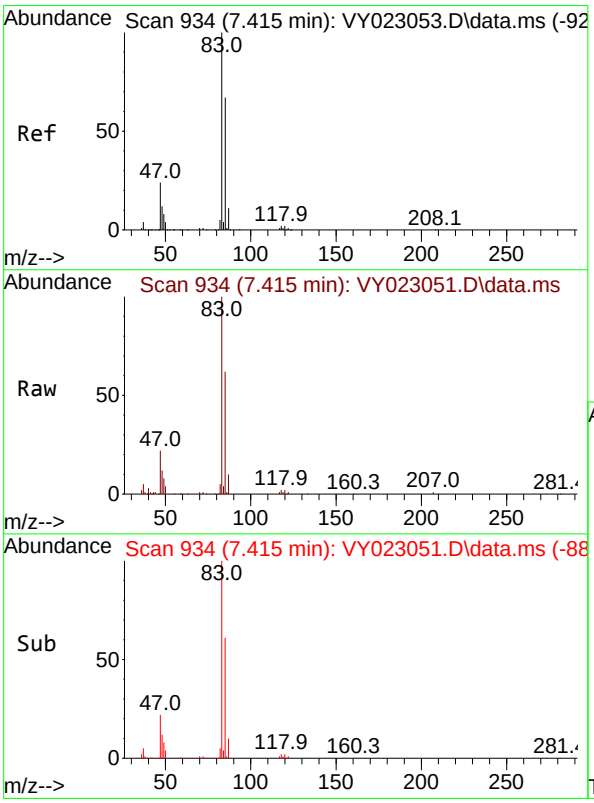
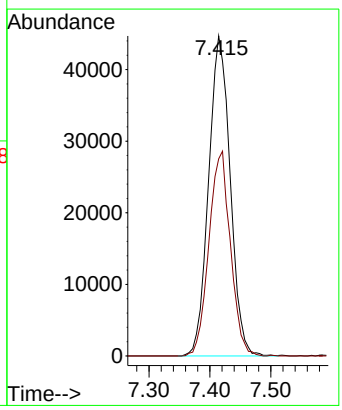
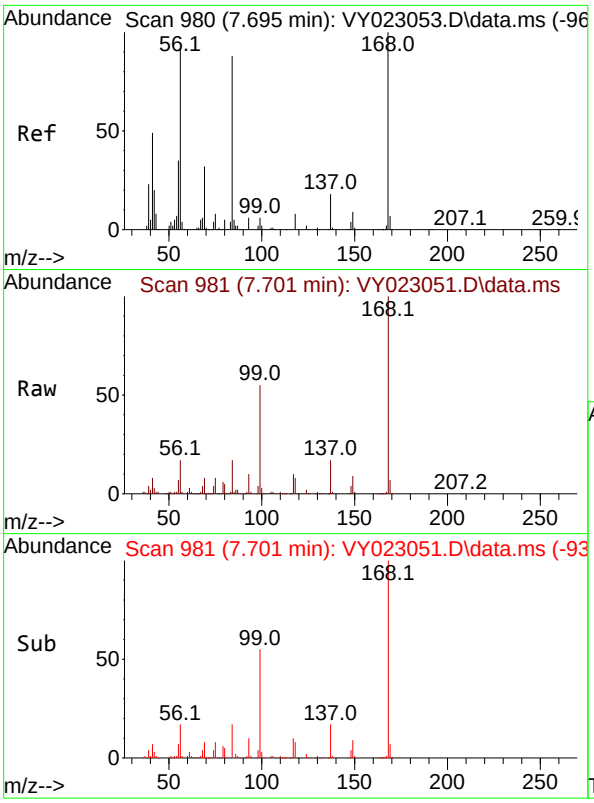



#30
Chloroform
Concen: 10.260 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 83 Resp: 109942

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 61.6 | 53.8 | 80.8 |






#31
Cyclohexane
Concen: 10.527 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

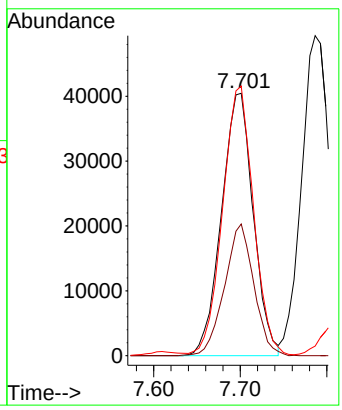
Tgt Ion: 56 Resp: 10306

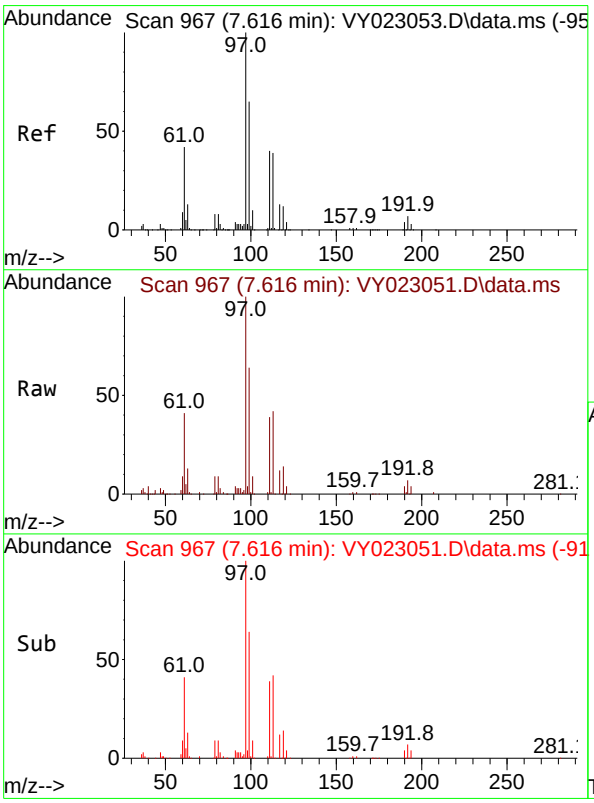
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 50.2 | 28.2 | 42.2 |
| 84 | 101.8 | 76.6 | 114.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

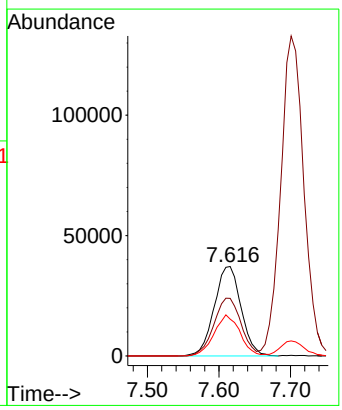


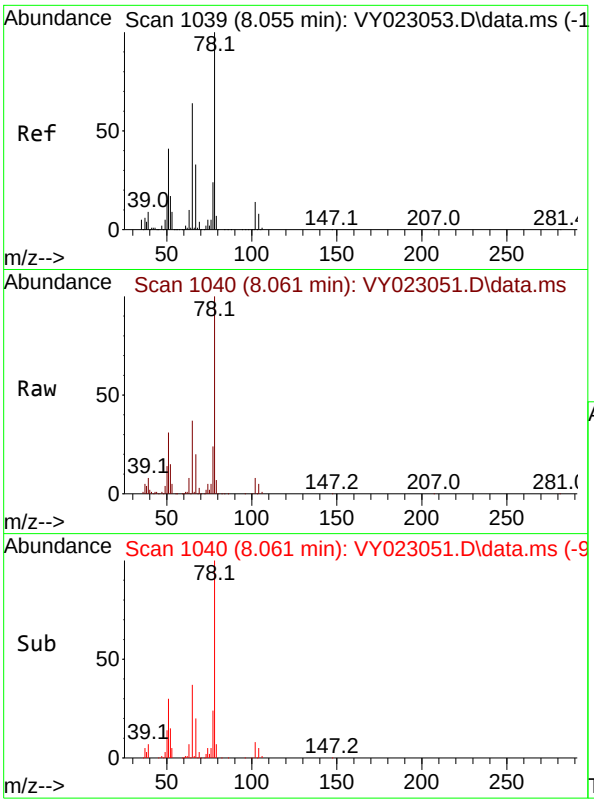




#32
1,1,1-Trichloroethane
Concen: 10.170 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 97 Resp: 96693

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 65.2 | 51.6 | 77.4 |
| 61 | 44.2 | 34.2 | 51.2 |

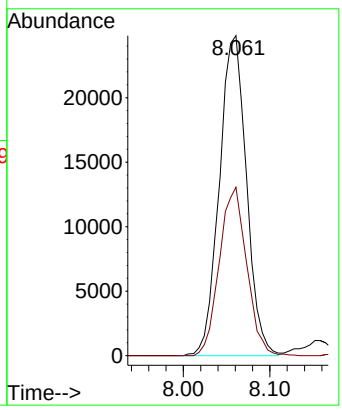





#33
1,2-Dichloroethane-d4
Concen: 10.274 ug/l
RT: 8.061 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 65 Resp: 5400

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.0 | 0.0 | 106.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
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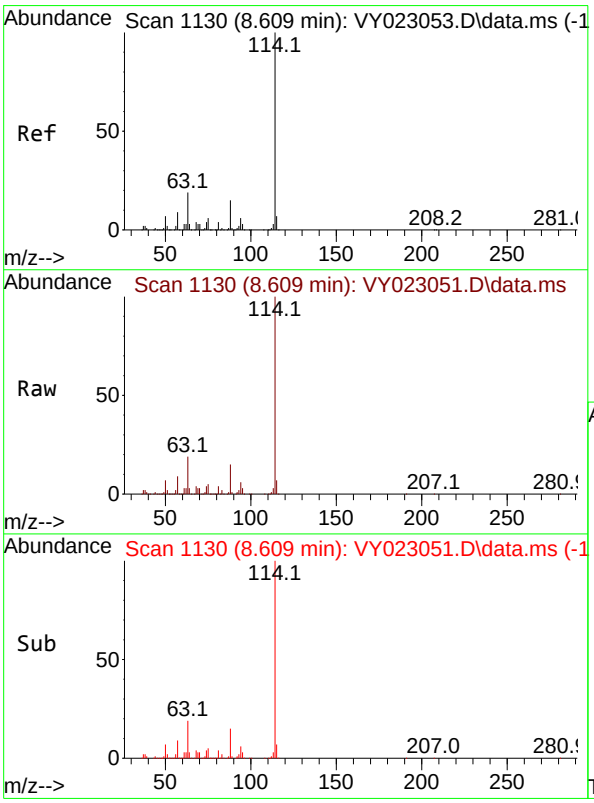
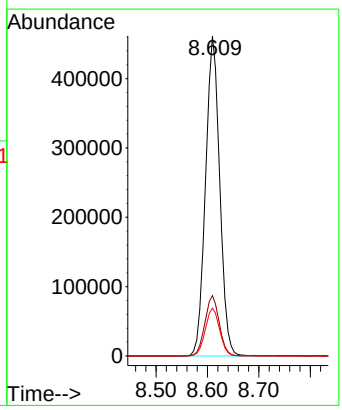
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

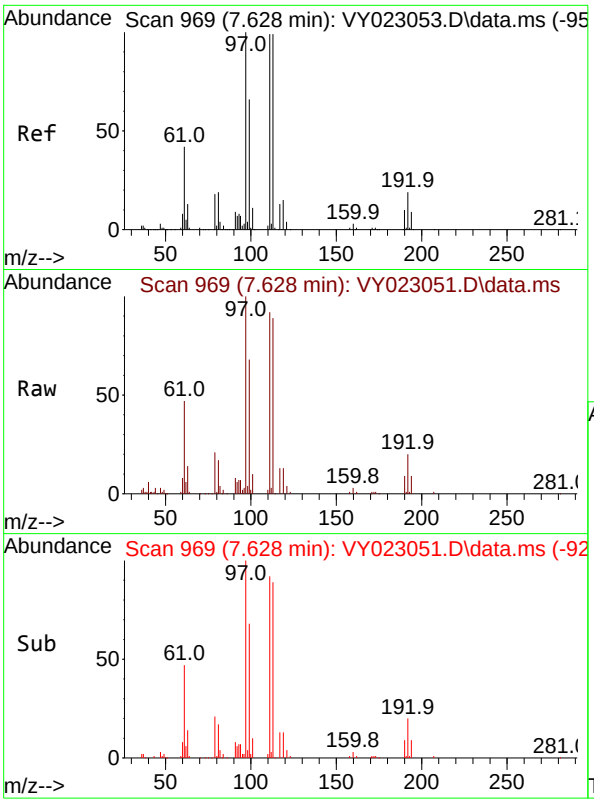



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:114 Resp: 883548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.9 | 0.0 | 38.4 |
| 88 | 14.9 | 0.0 | 30.0 |

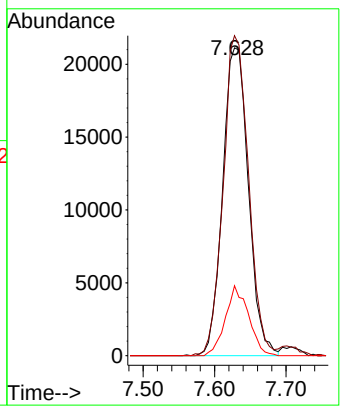





#35
Dibromofluoromethane
Concen: 10.009 ug/l
RT: 7.628 min Scan# 9(
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:113 Resp: 5291(

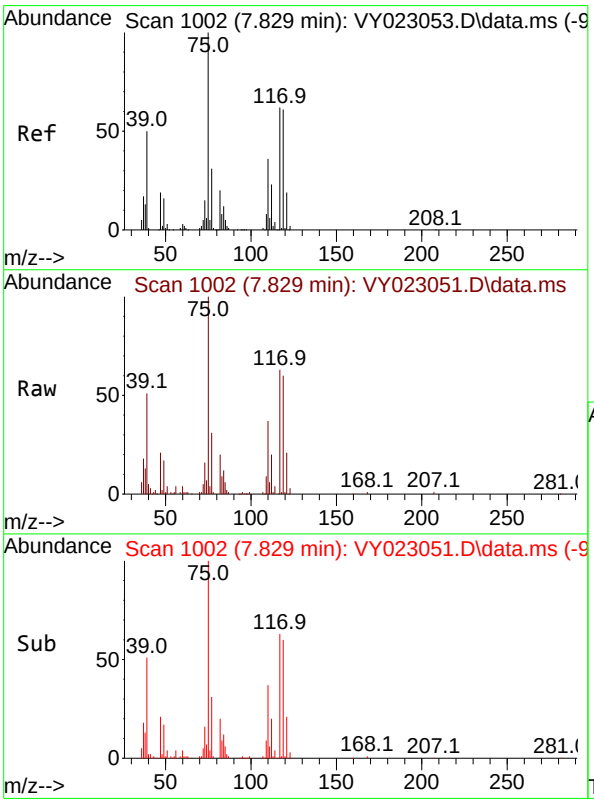
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.1 | 81.1 | 121.7 |
| 192 | 20.5 | 16.2 | 24.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

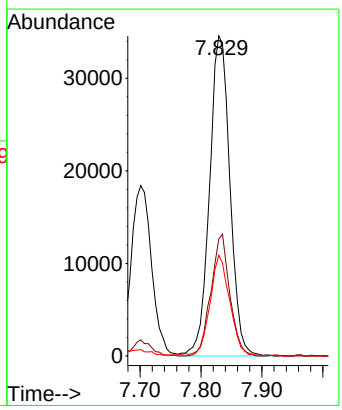
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

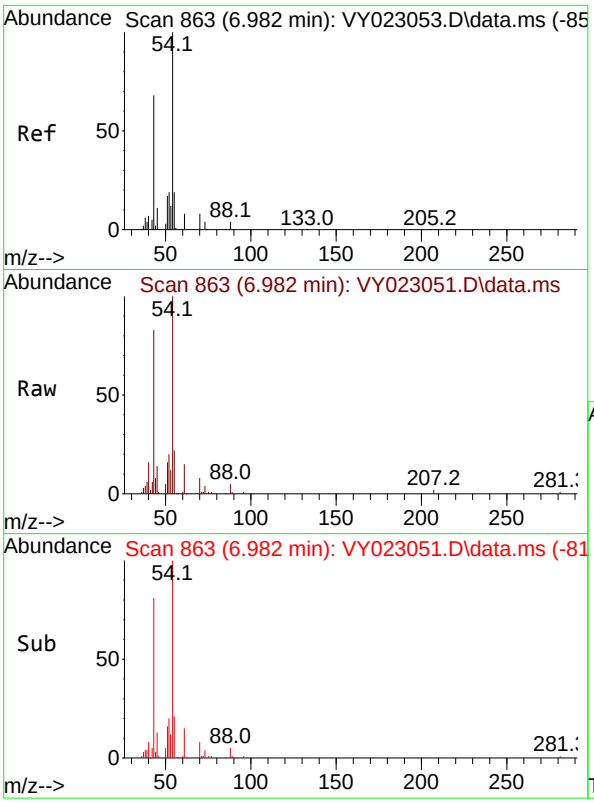



#36
1,1-Dichloropropene
Concen: 10.243 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 75 Resp: 80479

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.2 | 18.1 | 54.4 |
| 77 | 30.7 | 24.6 | 37.0 |






#37
Ethyl Acetate
Concen: 10.560 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 43 Resp: 3485

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 16.5 | 11.9 | 17.9 |
| 70 | 11.7 | 8.8 | 13.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
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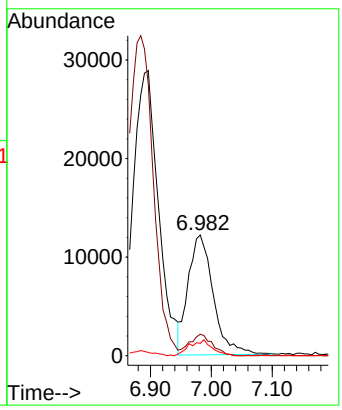
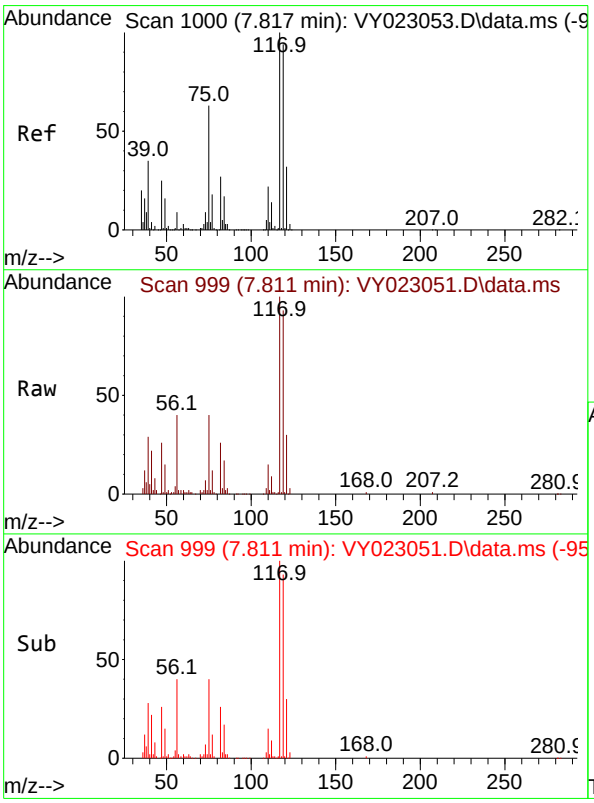
Supervised By :Semsettin Yesilyurt 08/14/2025

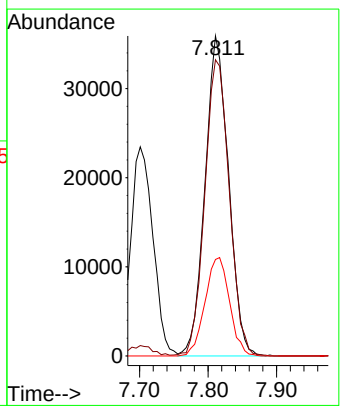


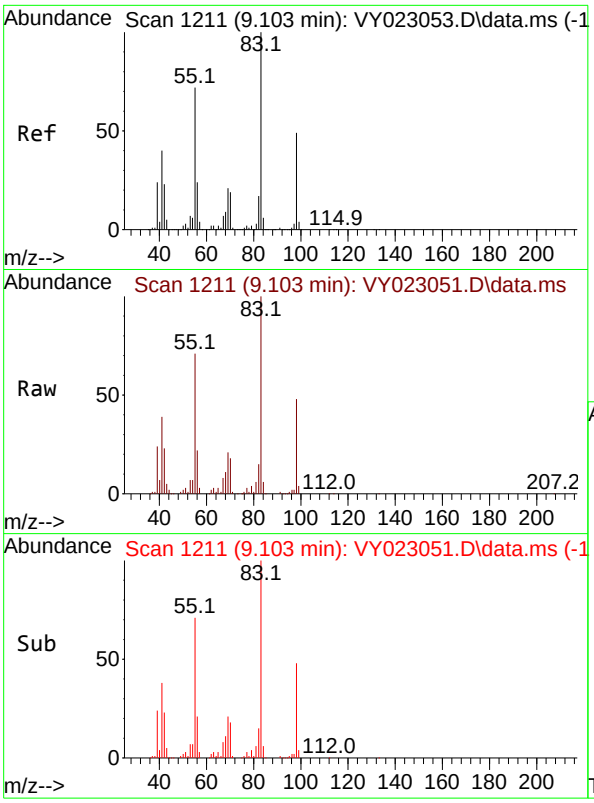




#38
Carbon Tetrachloride
Concen: 10.070 ug/l
RT: 7.811 min Scan# 999
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:117 Resp: 85932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 92.5 | 75.6 | 113.4 |
| 121 | 30.1 | 25.8 | 38.8 |






#39
Methylcyclohexane
Concen: 9.885 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 83 Resp: 10227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 71.3 | 57.6 | 86.4 |
| 98 | 48.2 | 39.2 | 58.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

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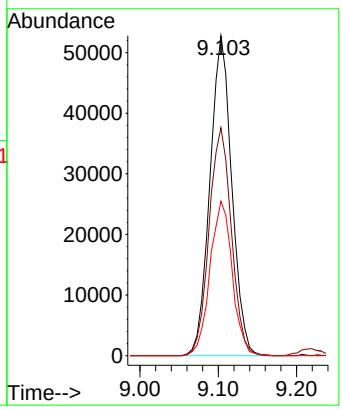
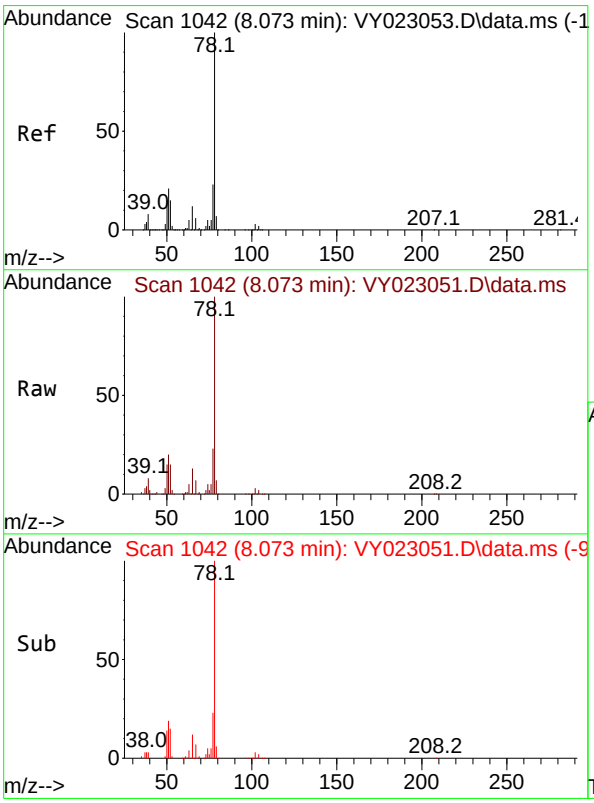
Supervised By :Semsettin Yesilyurt 08/14/2025

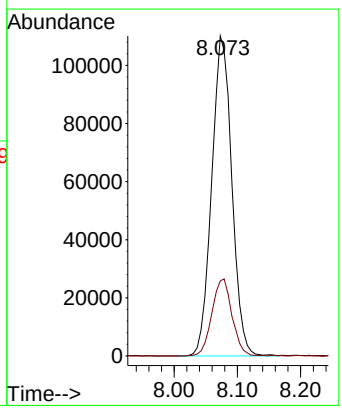


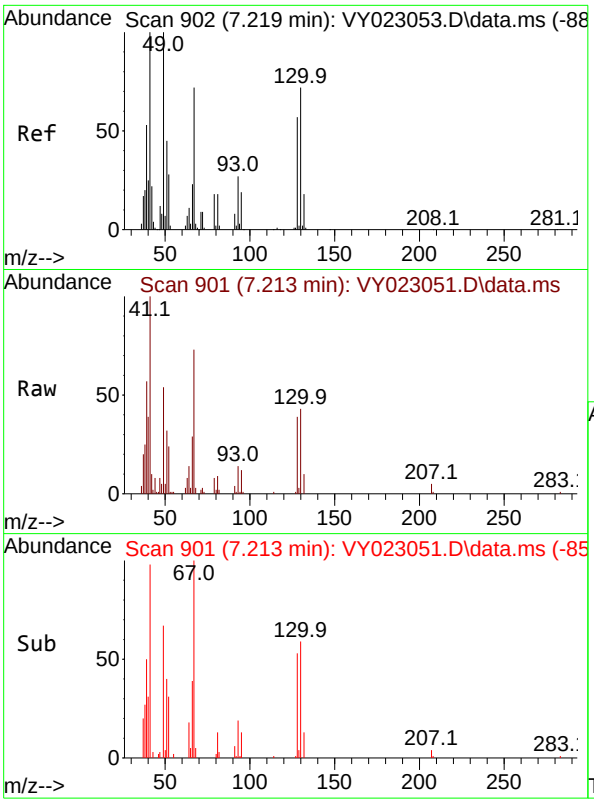




#40
Benzene
Concen: 10.037 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 78 Resp: 243060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.4 | 18.6 | 28.0 |

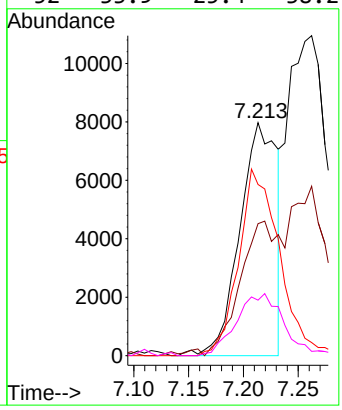





#41
Methacrylonitrile
Concen: 9.872 ug/l
RT: 7.213 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 41 Resp: 1882

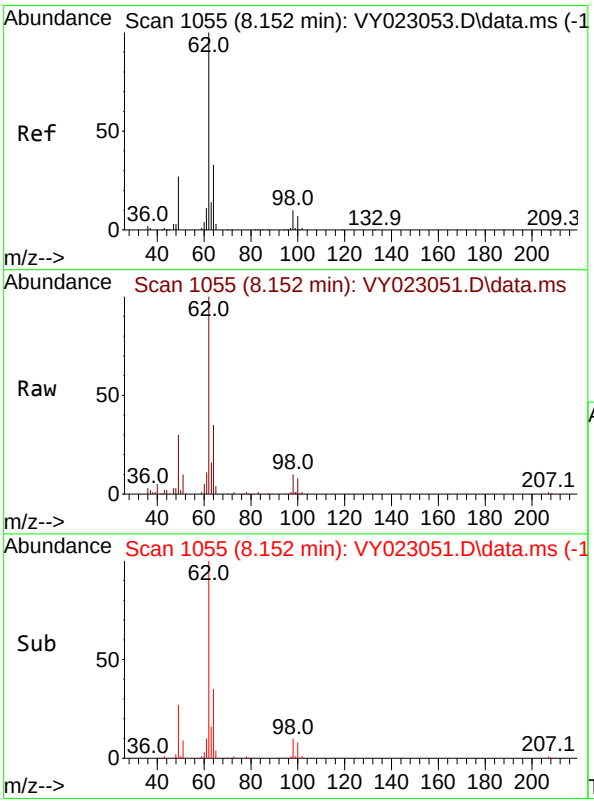
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 66.1 | 43.4 | 65.2 |
| 67 | 88.6 | 63.6 | 95.4 |
| 52 | 33.9 | 25.4 | 38.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

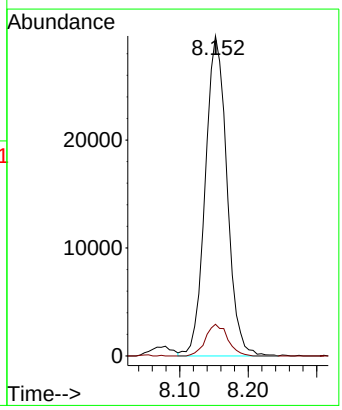
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

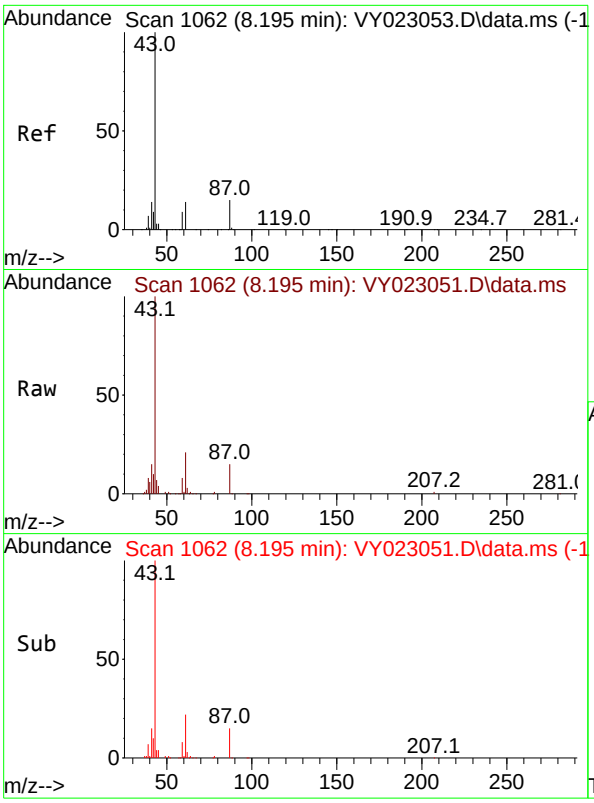



#42
1,2-Dichloroethane
Concen: 10.376 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 62 Resp: 65350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.1 | 0.0 | 20.6 |

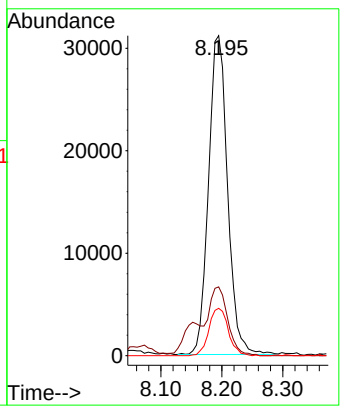





#43
Isopropyl Acetate
Concen: 10.144 ug/l
RT: 8.195 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 43 Resp: 6766(

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 20.8 | 16.4 | 24.6 |
| 87 | 15.2 | 11.8 | 17.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

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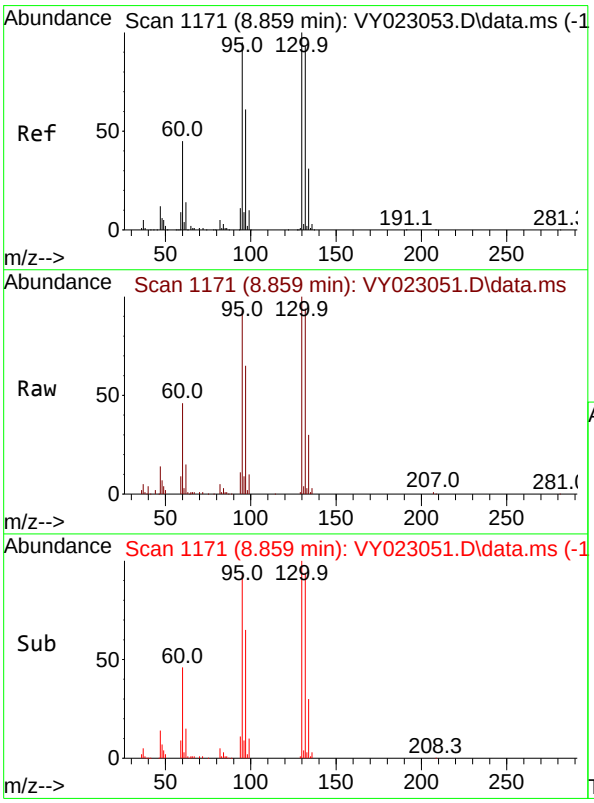
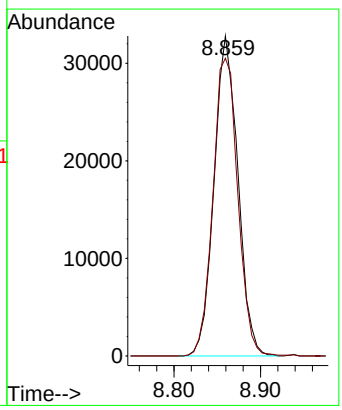
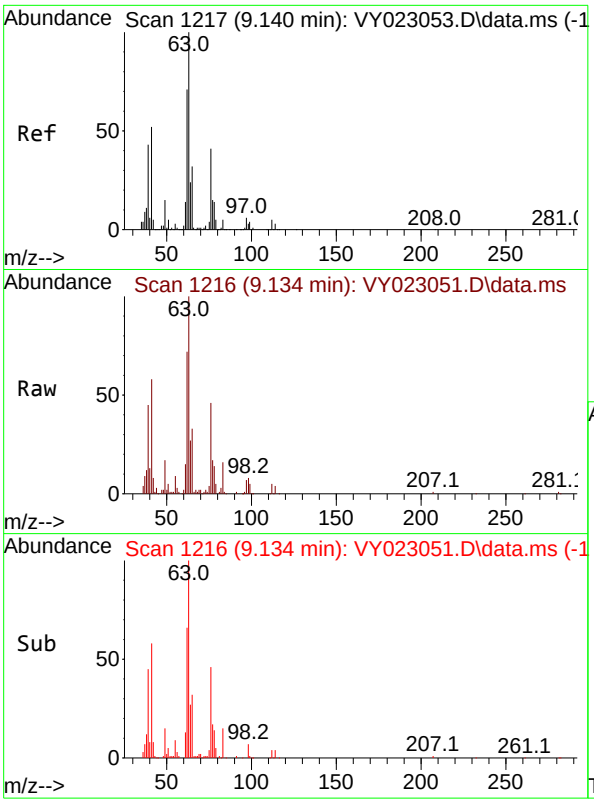



#44
Trichloroethene
Concen: 10.017 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:130 Resp: 62689

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 93.0 | 0.0 | 190.2 |

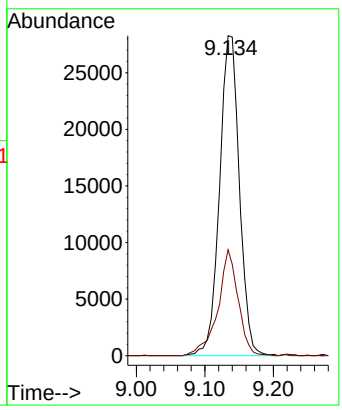





#45
1,2-Dichloropropane
Concen: 10.179 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 63 Resp: 5672

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 33.1 | 25.3 | 37.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
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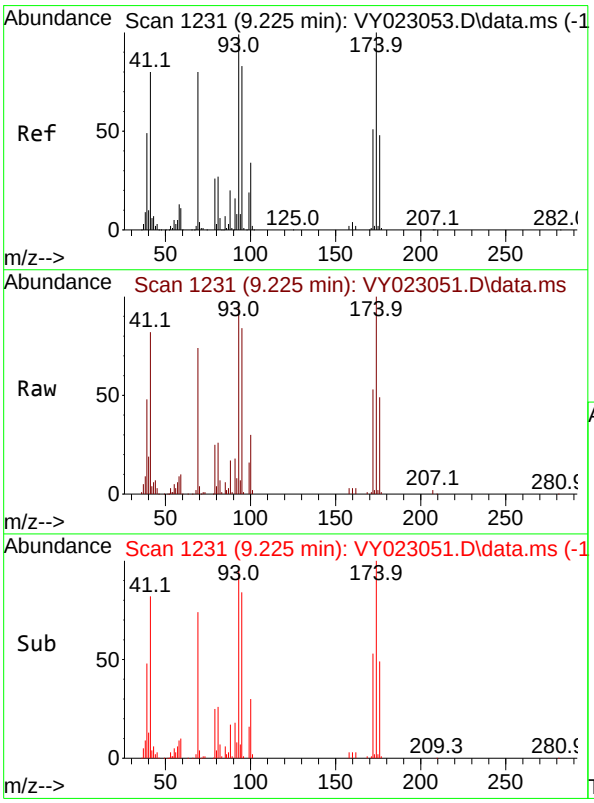
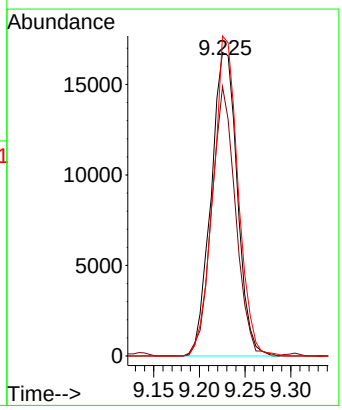
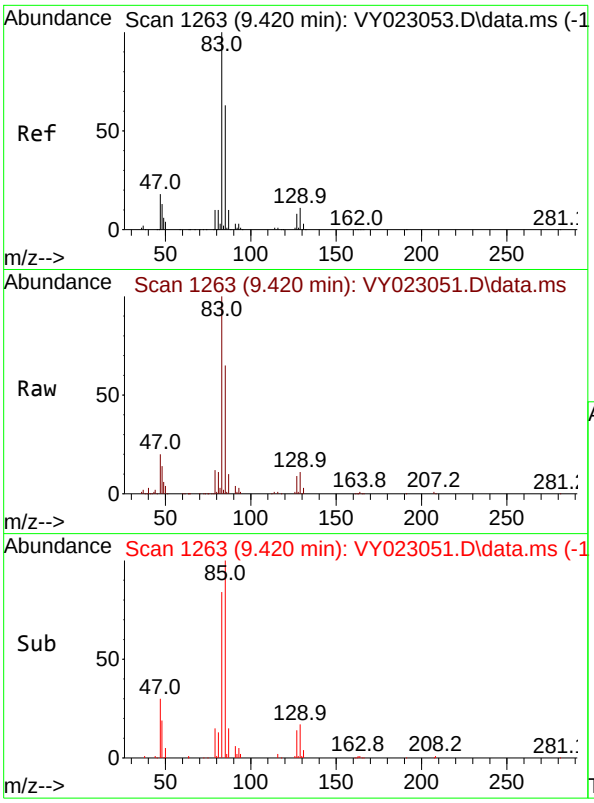



#46
Dibromomethane
Concen: 10.462 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 93 Resp: 33460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 80.9 | 66.5 | 99.7 |
| 174 | 100.0 | 81.8 | 122.8 |

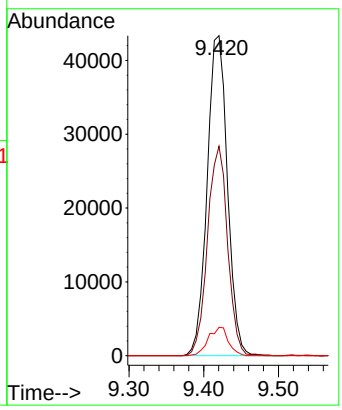





#47
Bromodichloromethane
Concen: 9.959 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 83 Resp: 8195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.5 | 50.2 | 75.4 |
| 127 | 8.8 | 6.6 | 10.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
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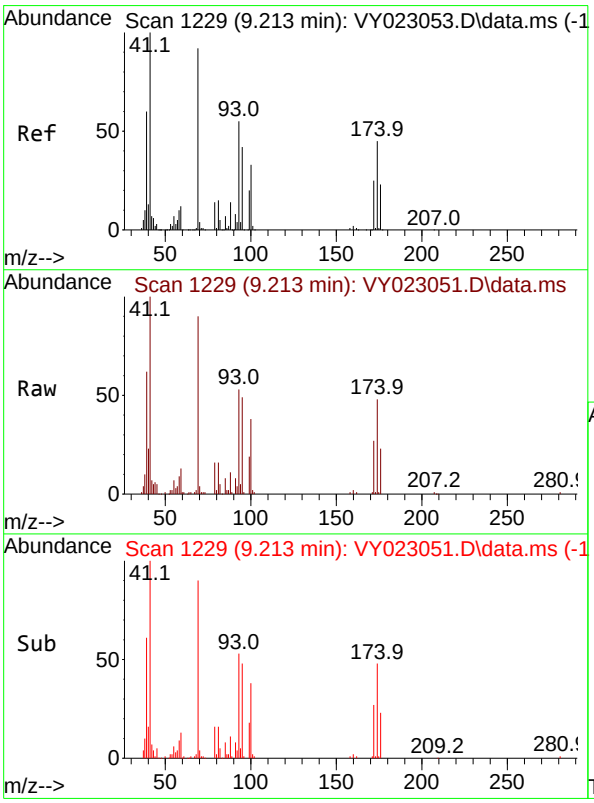
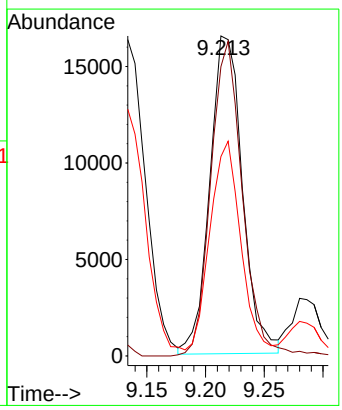
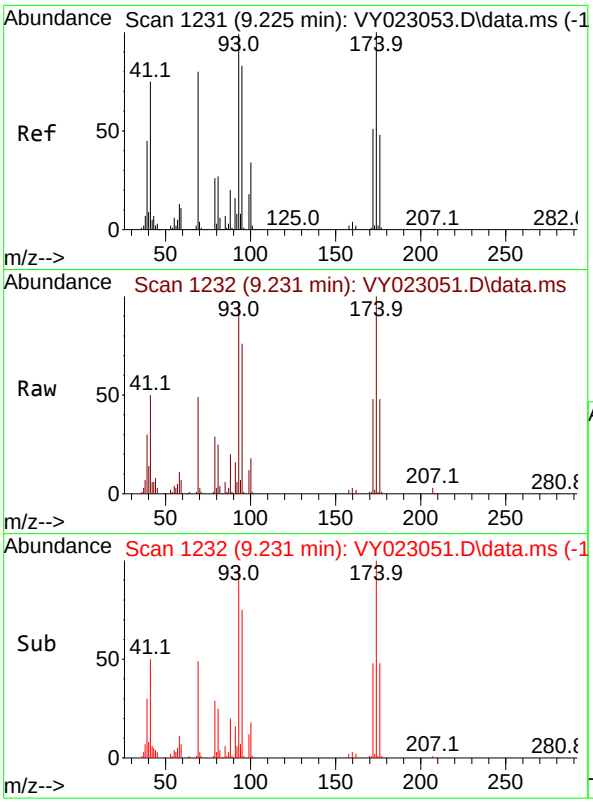



#48
Methyl methacrylate
Concen: 9.978 ug/l
RT: 9.213 min Scan# 1229
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 41 Resp: 31851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 96.0 | 73.2 | 109.8 |
| 39 | 60.9 | 47.0 | 70.4 |






#49
1,4-Dioxane
Concen: 205.471 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

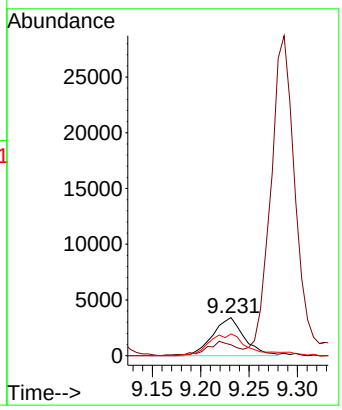
Tgt Ion: 88 Resp: 770

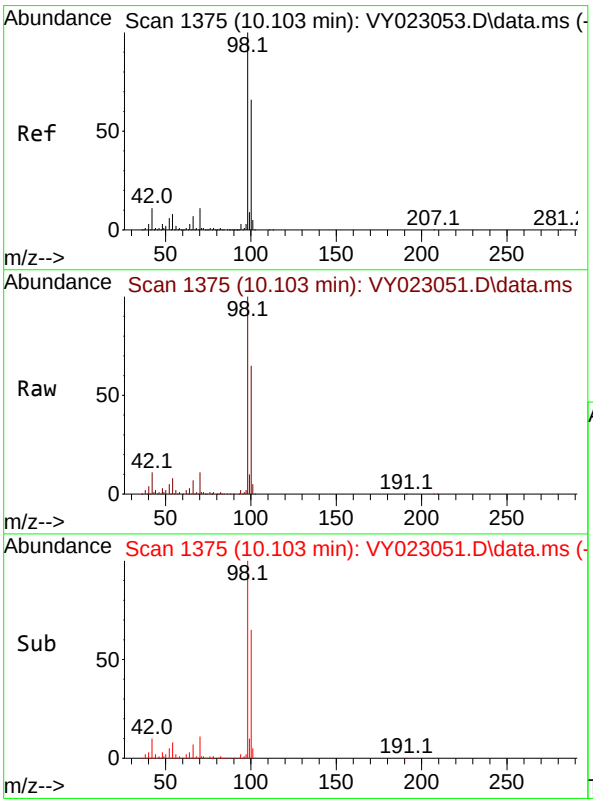
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 35.3 | 24.3 | 36.5 |
| 58 | 73.3 | 55.4 | 83.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

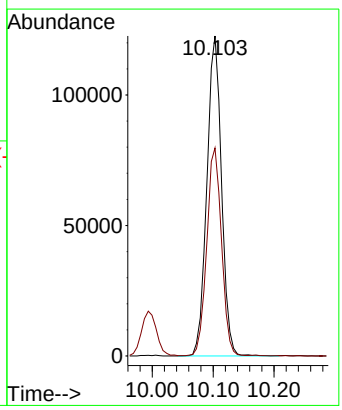


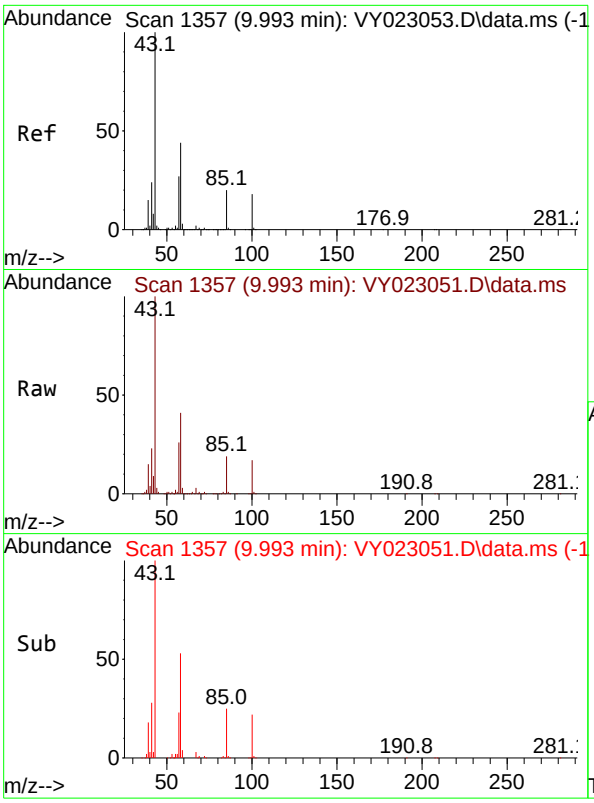




#50
Toluene-d8
Concen: 9.903 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 98 Resp: 204532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.2 | 52.3 | 78.5 |

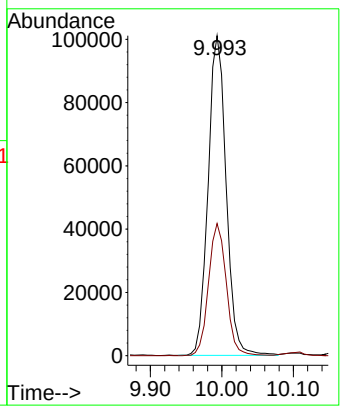





#51
4-Methyl-2-Pentanone
Concen: 51.484 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 43 Resp: 17715

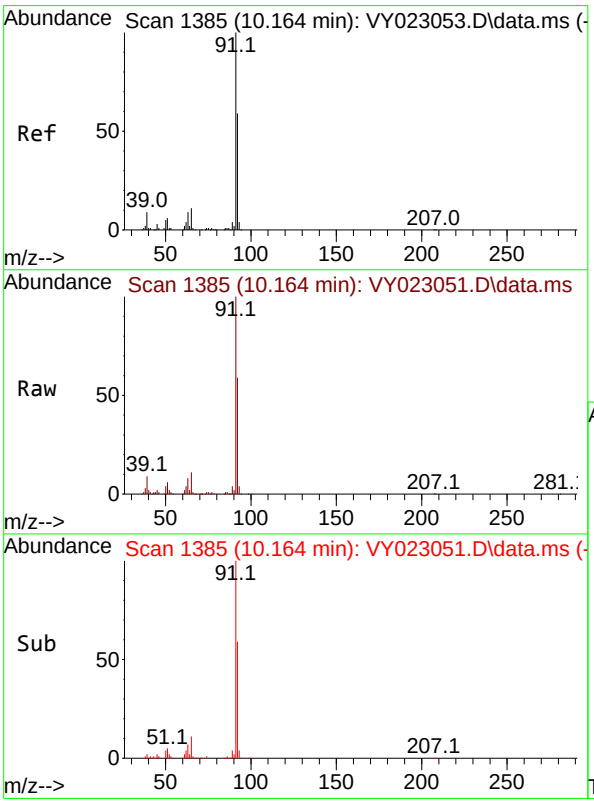
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 40.7 | 33.5 | 50.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

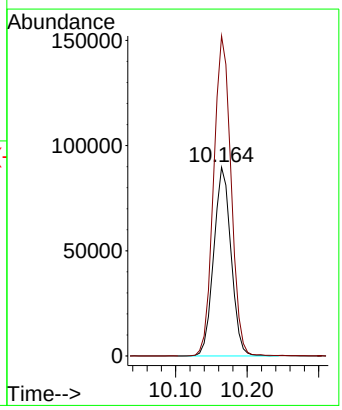
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

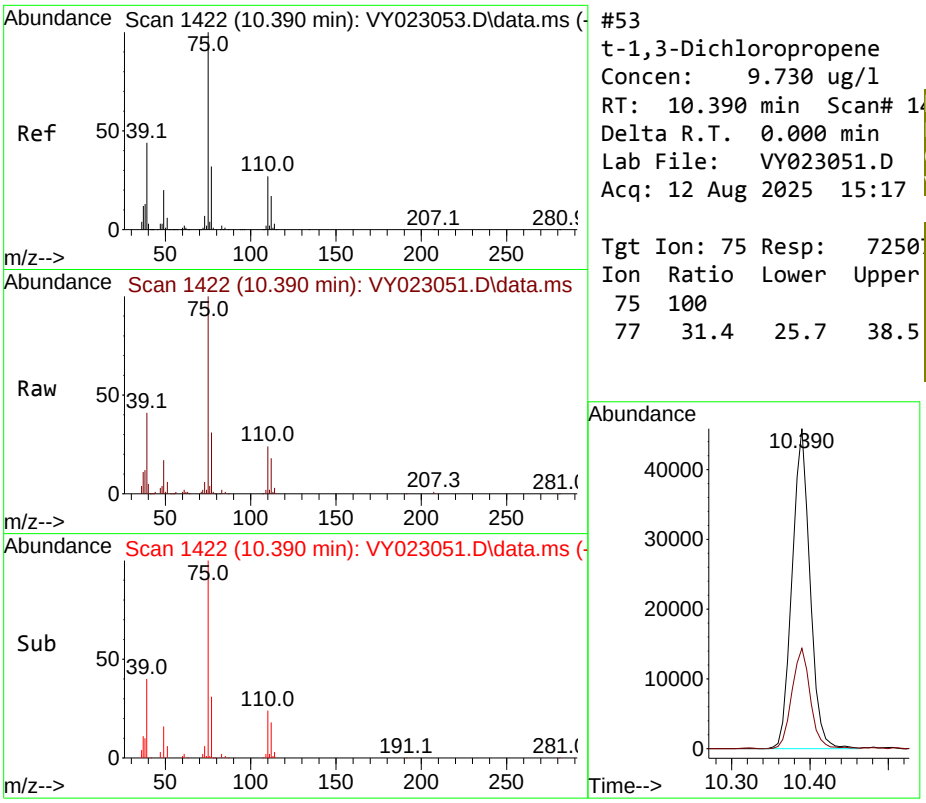



#52
Toluene
Concen: 9.780 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 92 Resp: 150422

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 171.3 | 136.4 | 204.6 |






#53
t-1,3-Dichloropropene
Concen: 9.730 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 75 Resp: 7250

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.4 | 25.7 | 38.5 |




**Instrument :**
MSVOA_Y
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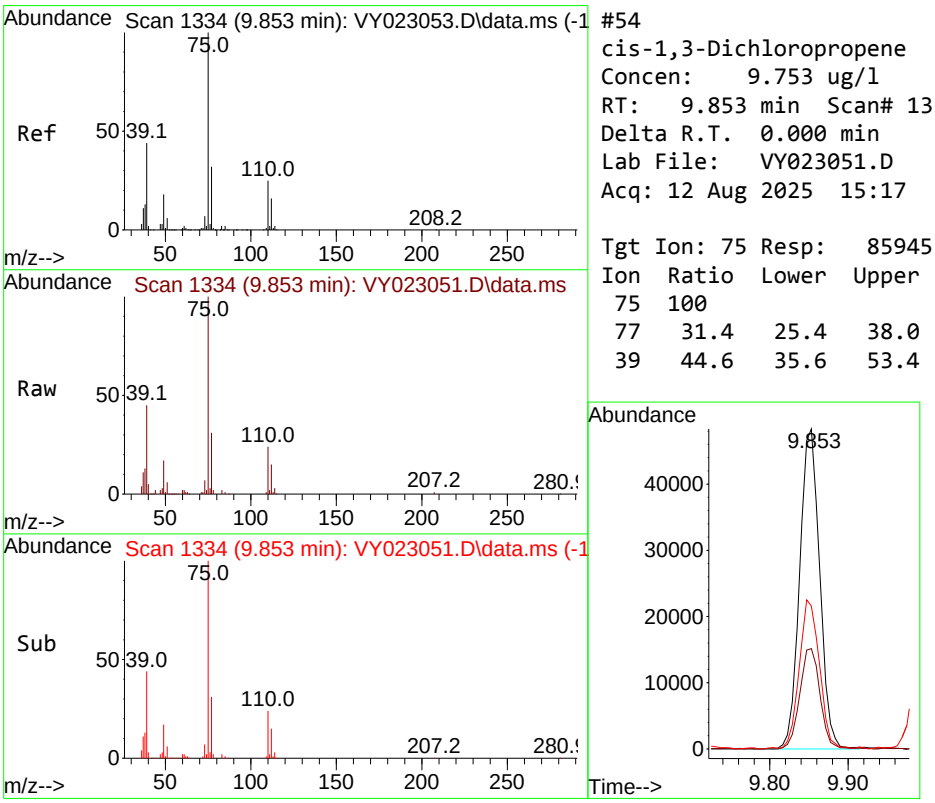
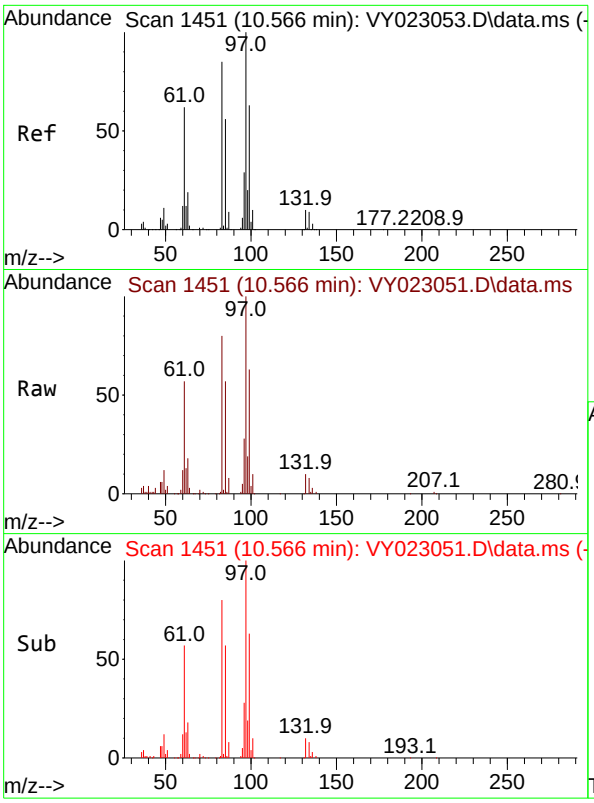



#54
cis-1,3-Dichloropropene
Concen: 9.753 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 75 Resp: 85945

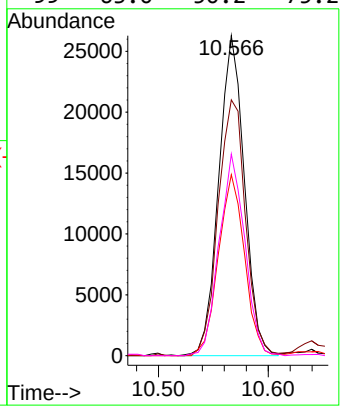
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.4 | 25.4 | 38.0 |
| 39 | 44.6 | 35.6 | 53.4 |




#55
1,1,2-Trichloroethane
Concen: 9.981 ug/l
RT: 10.566 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 97 Resp: 4271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 79.9 | 67.7 | 101.5 |
| 85 | 56.6 | 44.5 | 66.7 |
| 99 | 63.0 | 50.2 | 75.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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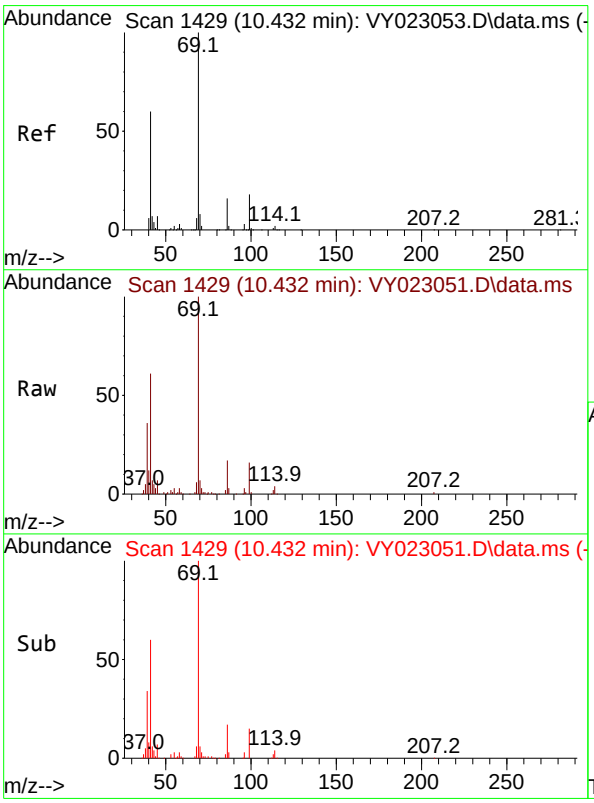
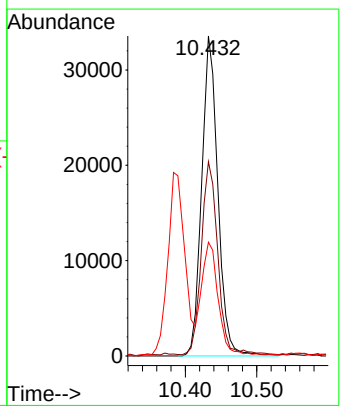
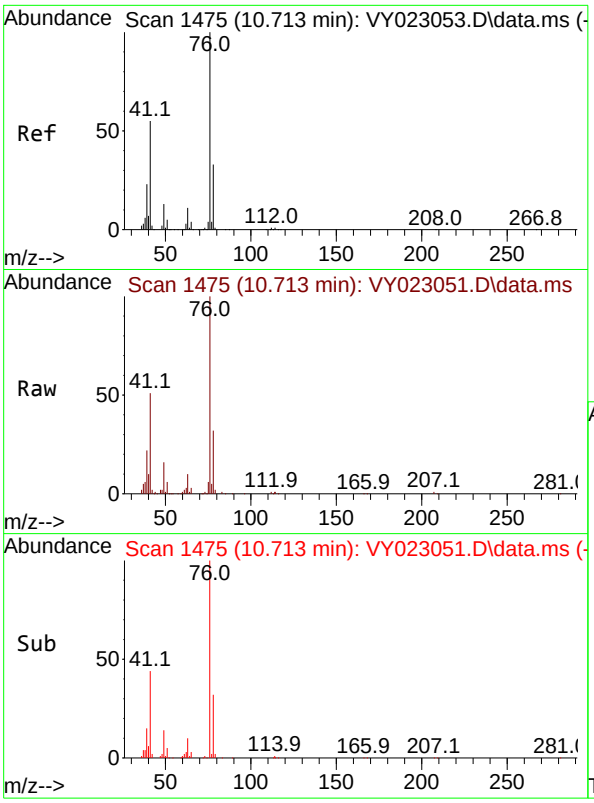



#56
Ethyl methacrylate
Concen: 9.632 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 69 Resp: 52746

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 61.0 | 48.6 | 72.8 |
| 39 | 35.9 | 27.0 | 40.4 |

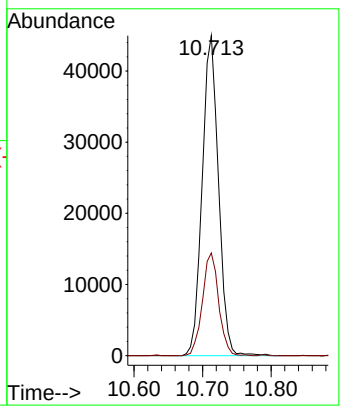





#57
1,3-Dichloropropane
Concen: 10.256 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 76 Resp: 7443

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.0 | 26.0 | 39.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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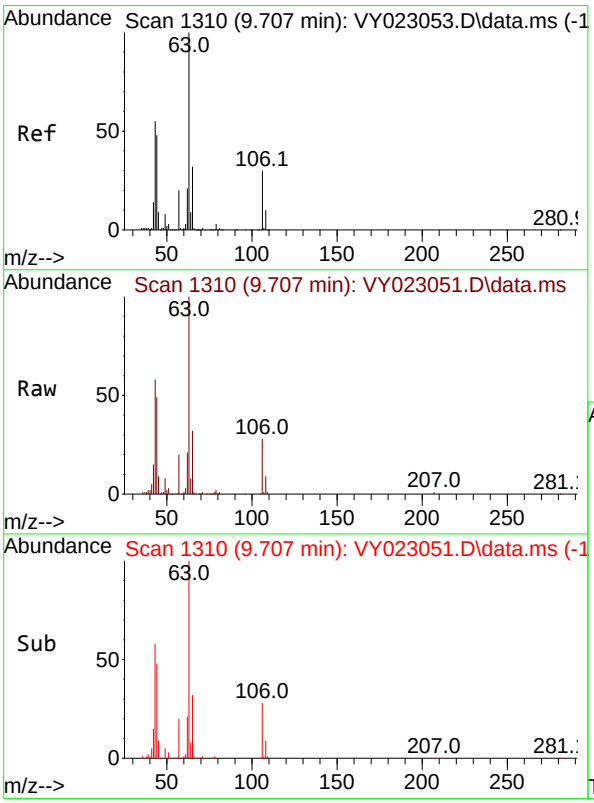
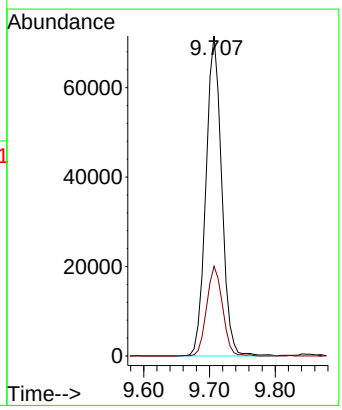
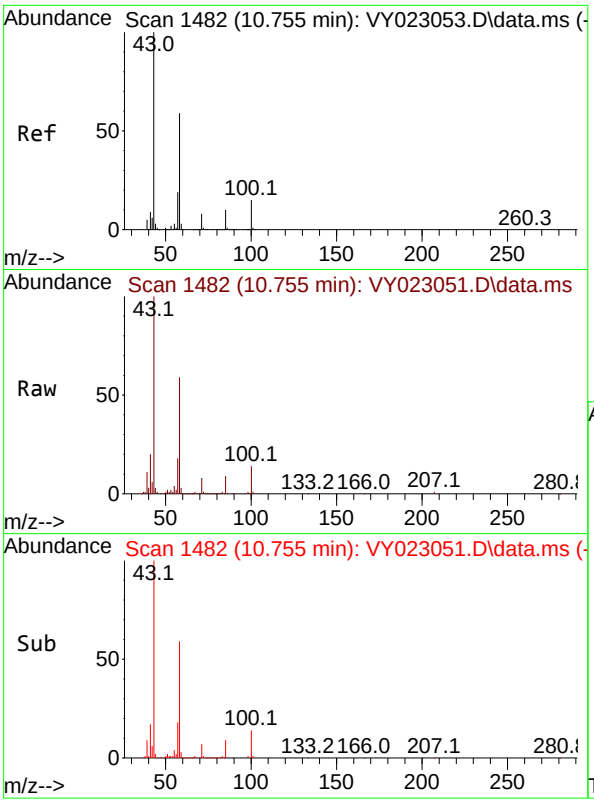



#58
2-Chloroethyl Vinyl ether
Concen: 46.232 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 63 Resp: 119417

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 28.2 | 23.2 | 34.8 |






#59
2-Hexanone
Concen: 50.553 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 43 Resp: 11845

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 58.3 | 29.5 | 88.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

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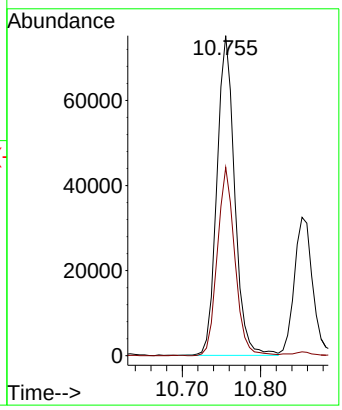
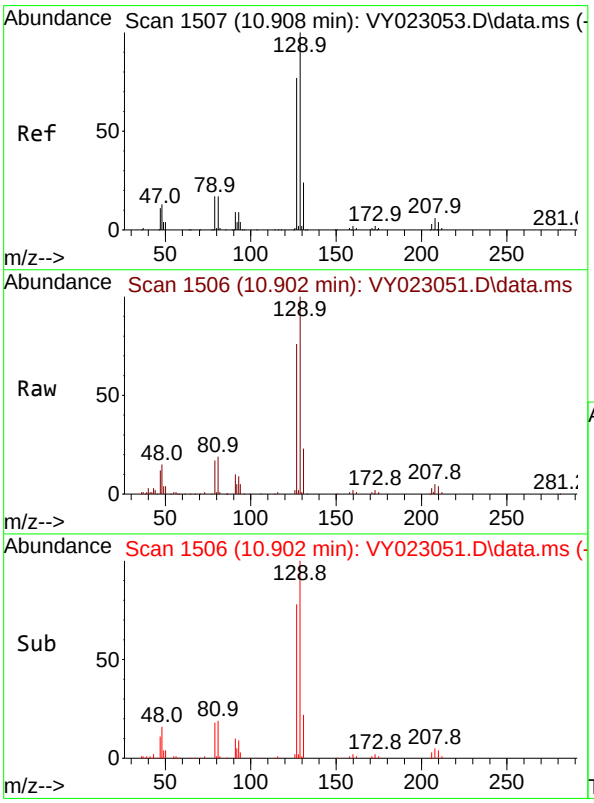
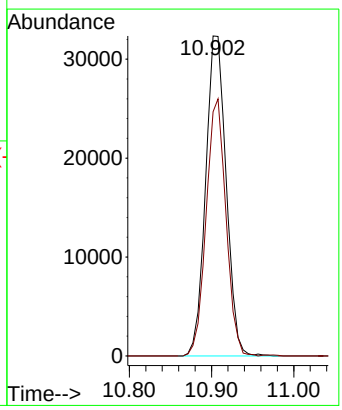


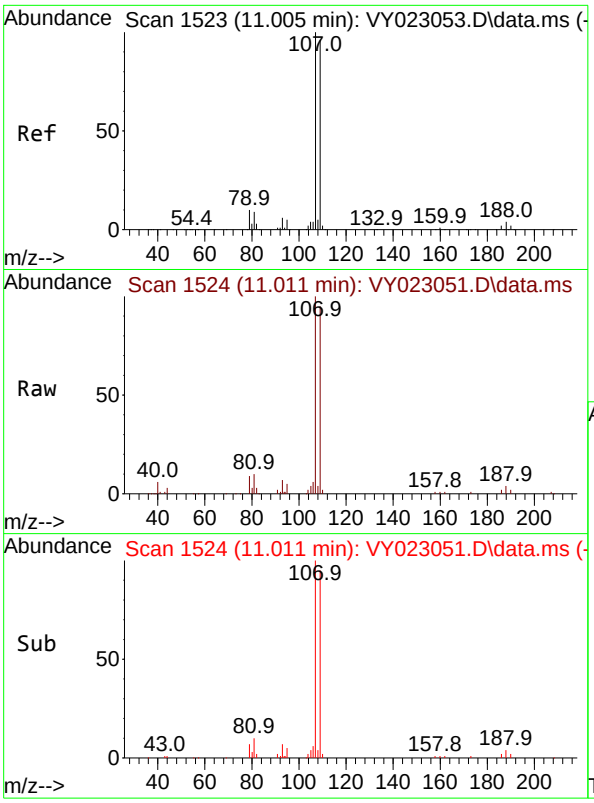




#60
Dibromochloromethane
Concen: 9.925 ug/l
RT: 10.902 min Scan# 1506
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:129 Resp: 56045

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.5 | 38.5 | 115.5 |






#61
1,2-Dibromoethane
Concen: 10.196 ug/l
RT: 11.011 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:107 Resp: 4100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.8 | 75.6 | 113.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

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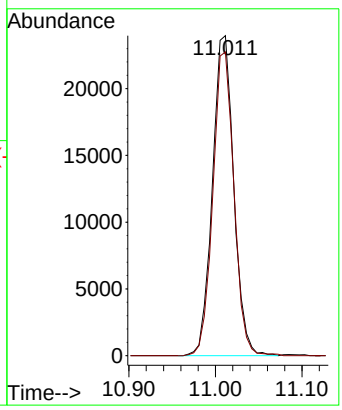
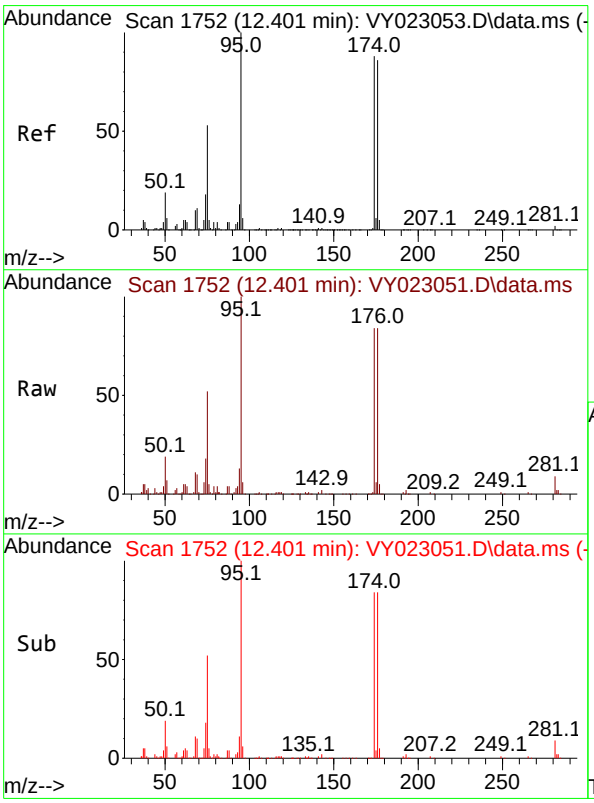
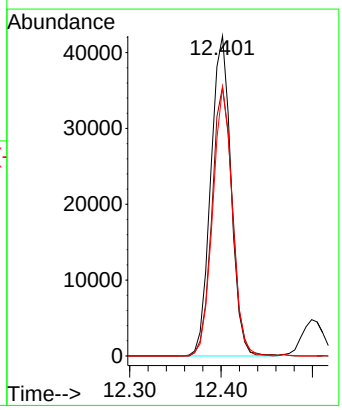


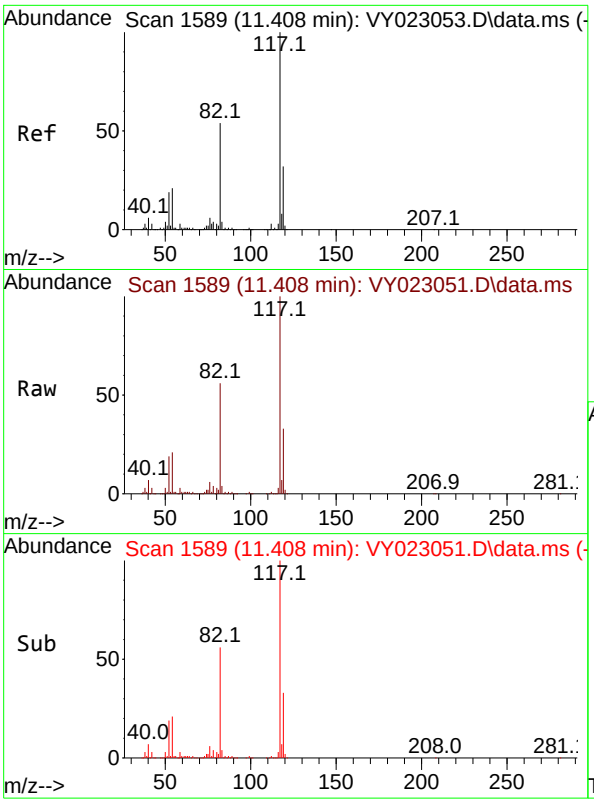




#62
4-Bromofluorobenzene
Concen: 9.775 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 95 Resp: 64927

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 84.8 | 0.0 | 171.6 |
| 176 | 81.7 | 0.0 | 167.6 |






#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:117 Resp: 76132

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 55.6 | 43.4 | 65.0 |
| 119 | 32.8 | 25.6 | 38.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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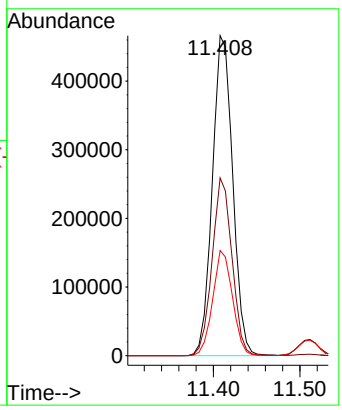
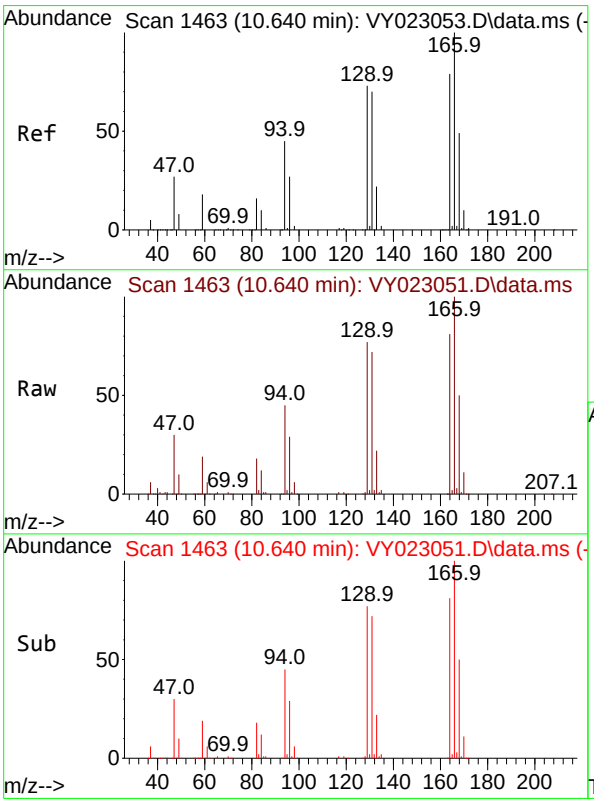
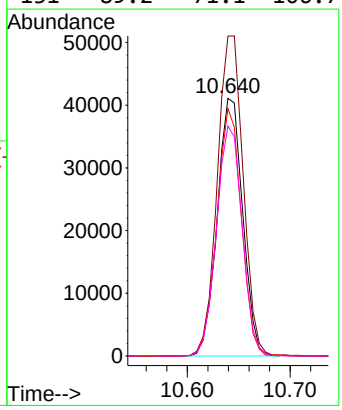


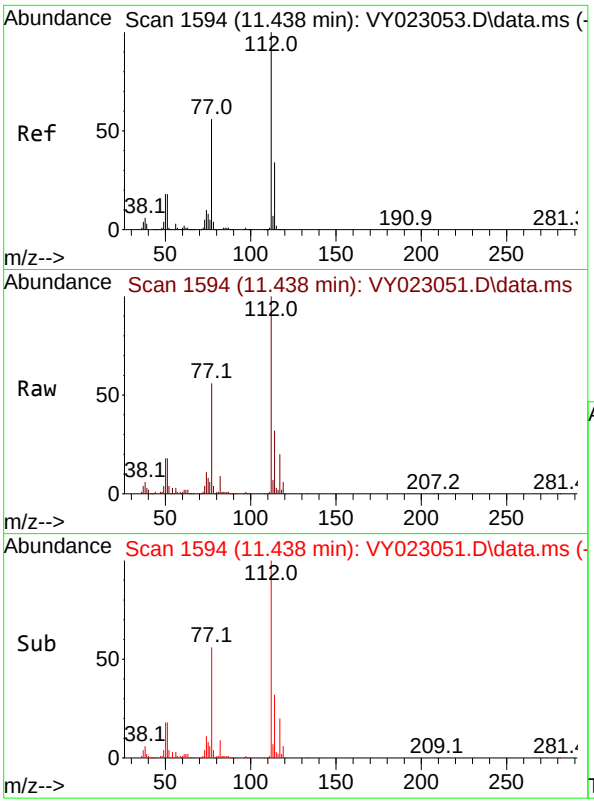




#64
Tetrachloroethene
Concen: 10.371 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:164 Resp: 70502

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 124.2 | 101.1 | 151.7 |
| 129 | 96.0 | 74.0 | 111.0 |
| 131 | 89.2 | 71.1 | 106.7 |

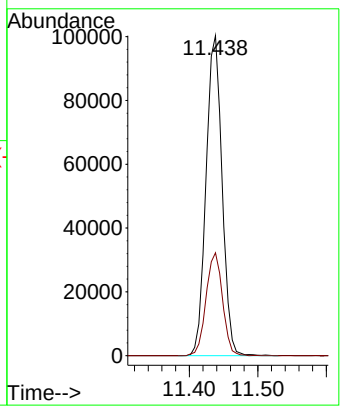





#65
Chlorobenzene
Concen: 9.925 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:112 Resp: 16298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.2 | 27.0 | 40.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

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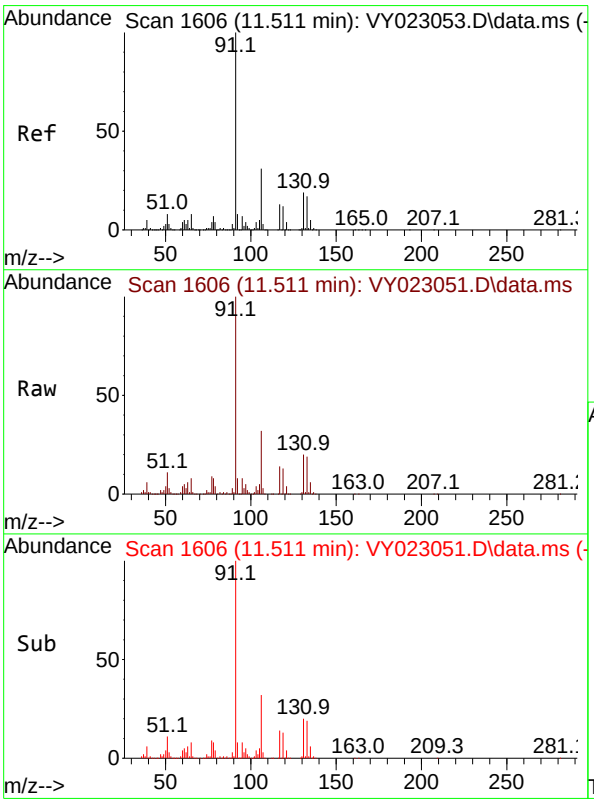
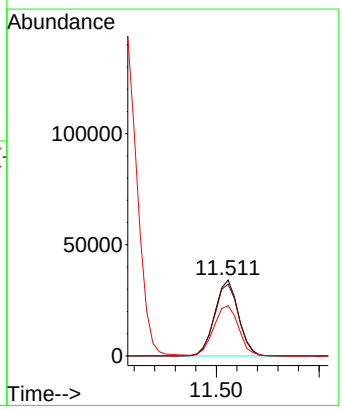
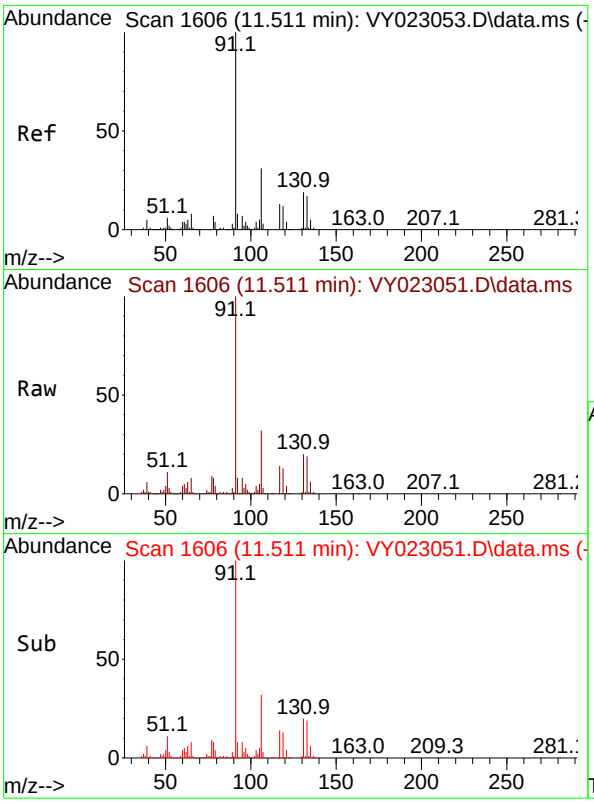



#66
1,1,1,2-Tetrachloroethane
Concen: 9.842 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:131 Resp: 54856

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 96.5 | 46.9 | 140.6 |
| 119 | 69.8 | 33.2 | 99.6 |






#67
Ethyl Benzene
Concen: 9.670 ug/l
RT: 11.511 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

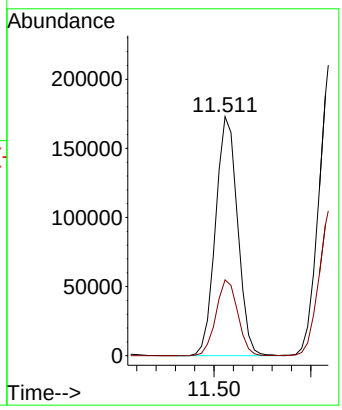
Tgt Ion: 91 Resp: 27328

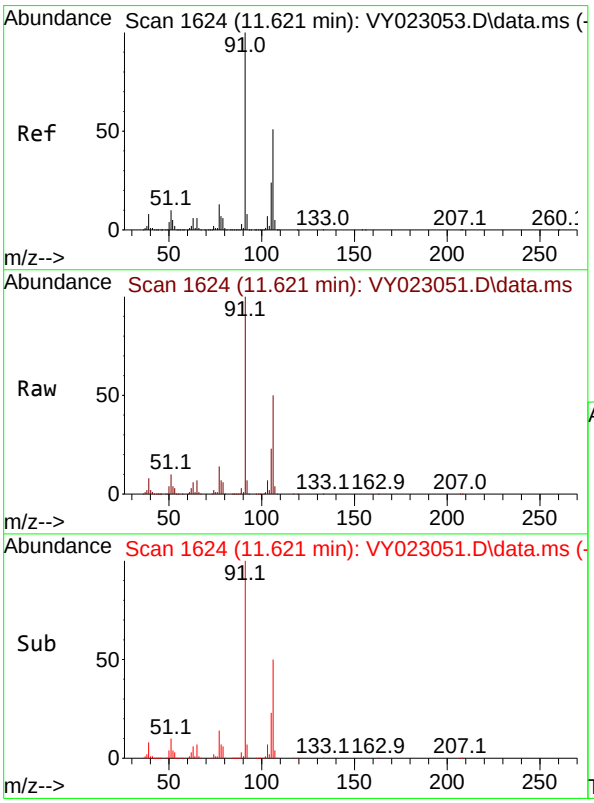
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.8 | 25.0 | 37.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

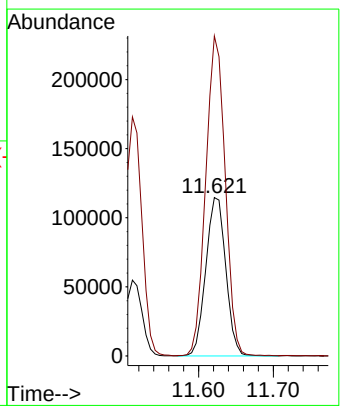


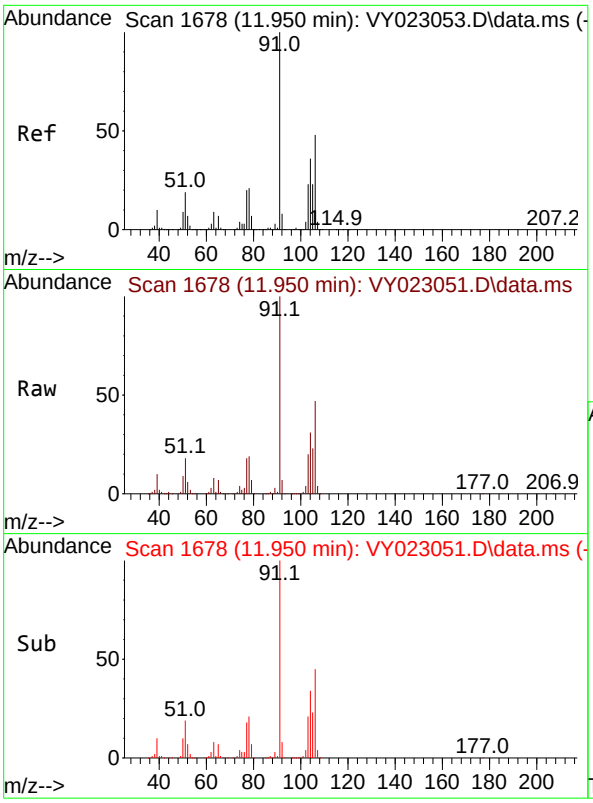




#68
m/p-Xylenes
Concen: 19.277 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:106 Resp: 212766

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 196.5 | 158.6 | 238.0 |

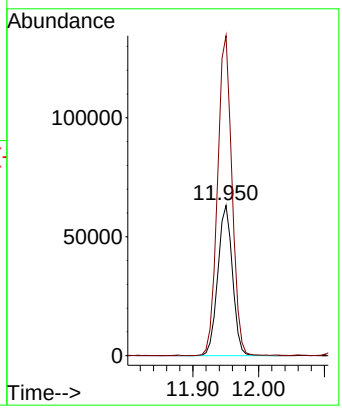





#69
o-Xylene
Concen: 9.465 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:106 Resp: 9784

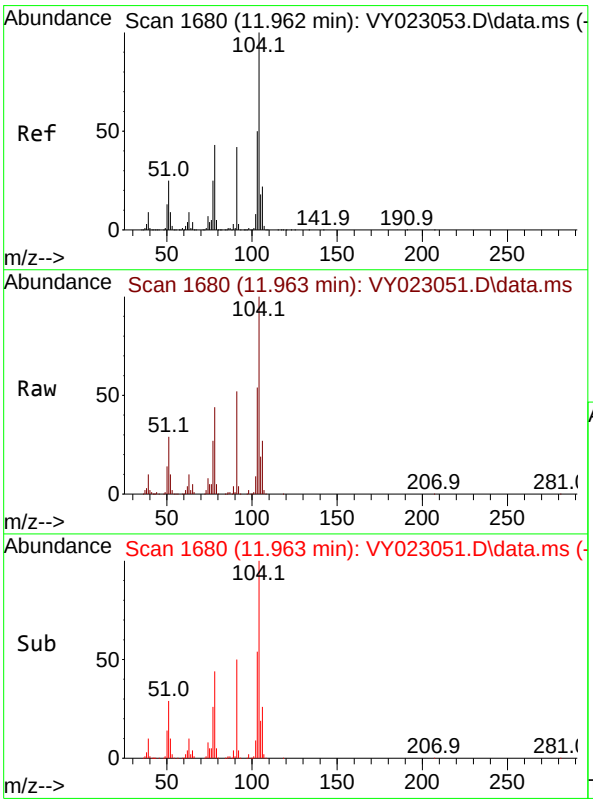
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 210.2 | 103.2 | 309.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

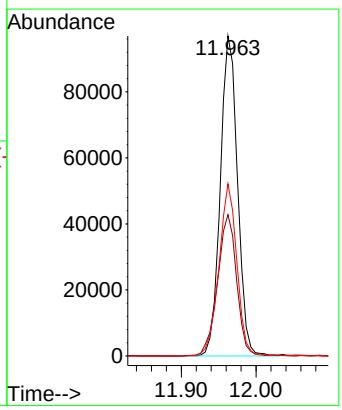
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

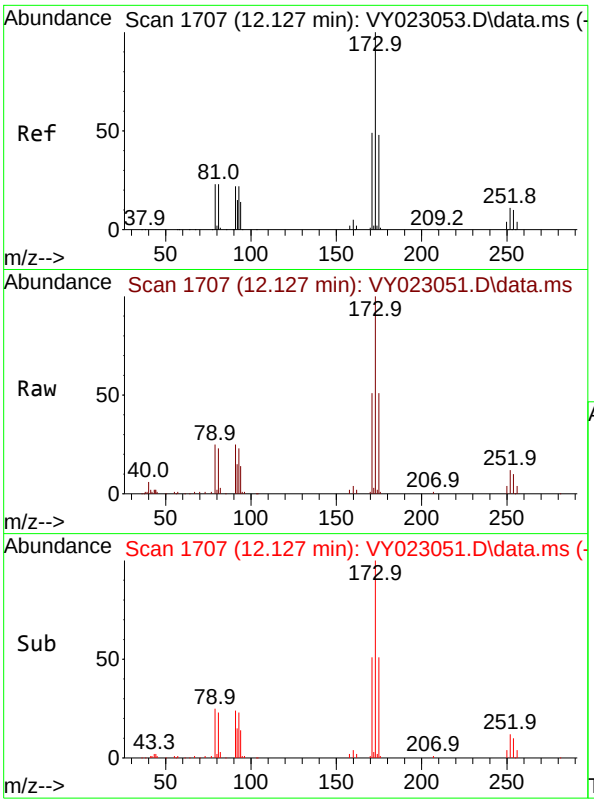



#70
Styrene
Concen: 9.216 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:104 Resp: 155809

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 48.8 | 38.5 | 57.7 |
| 103 | 55.6 | 43.7 | 65.5 |

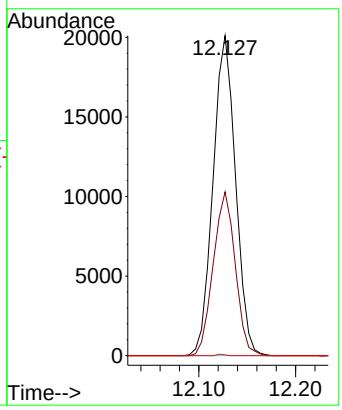





#71
Bromoform
Concen: 9.968 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:173 Resp: 3247

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 50.0 | 23.9 | 71.7 |
| 254 | 0.2 | 0.1 | 0.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
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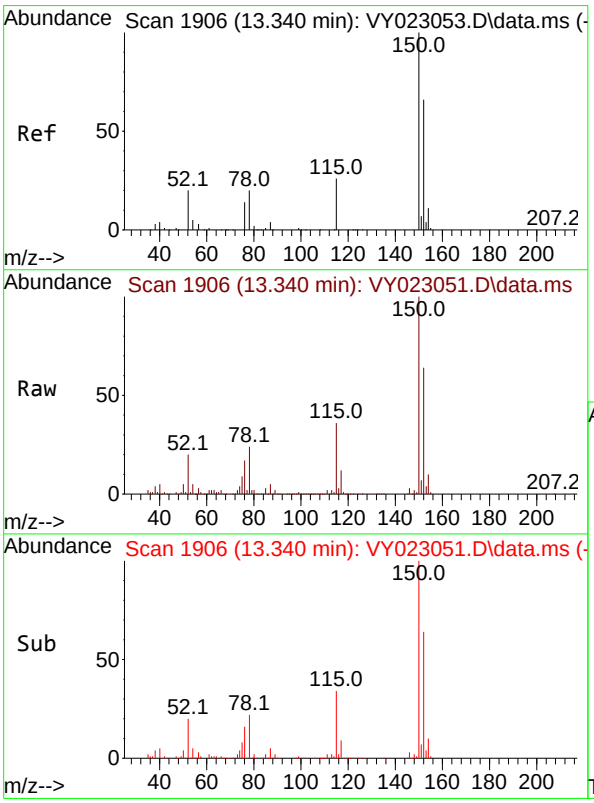
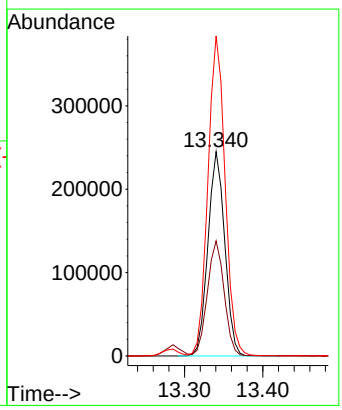
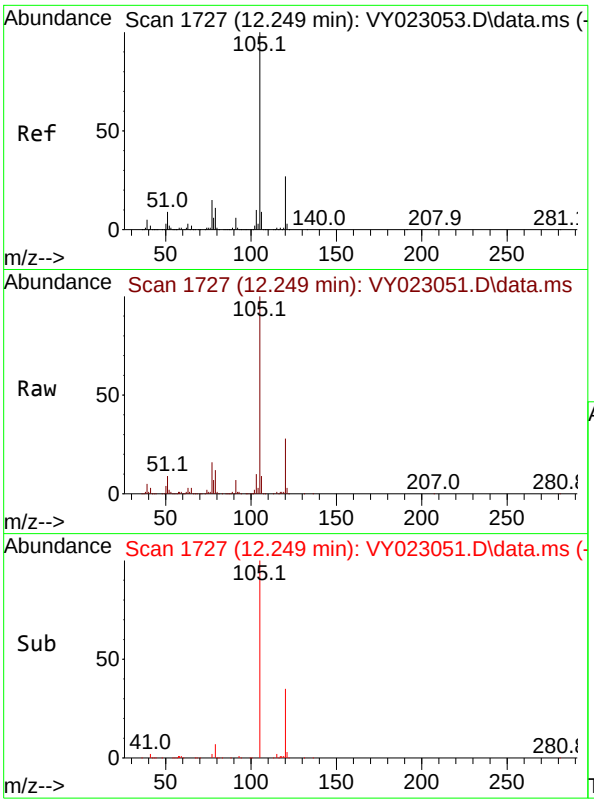



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:152 Resp: 365647

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 56.0 | 28.2 | 84.6 |
| 150 | 159.7 | 0.0 | 348.0 |

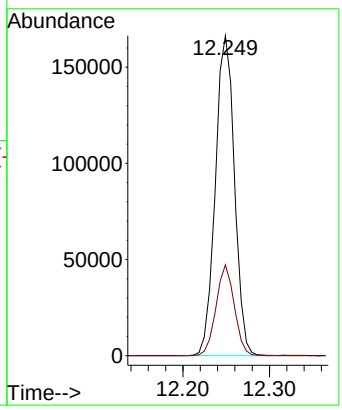





#73
Isopropylbenzene
Concen: 9.871 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:105 Resp: 25474

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.1 | 13.4 | 40.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

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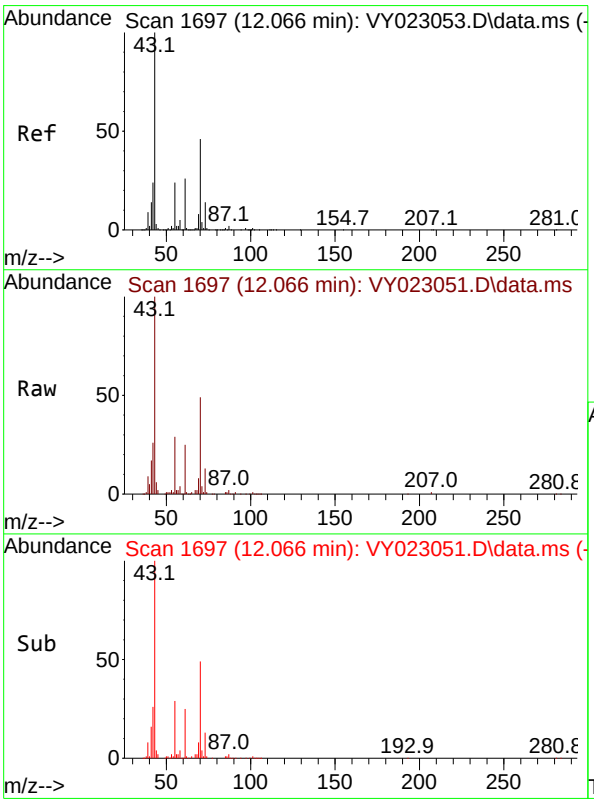
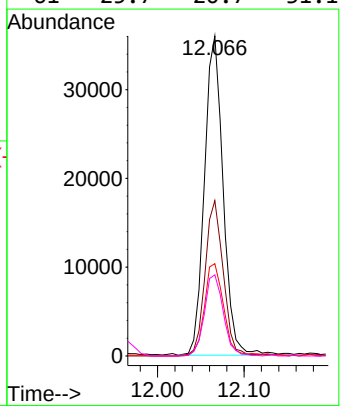
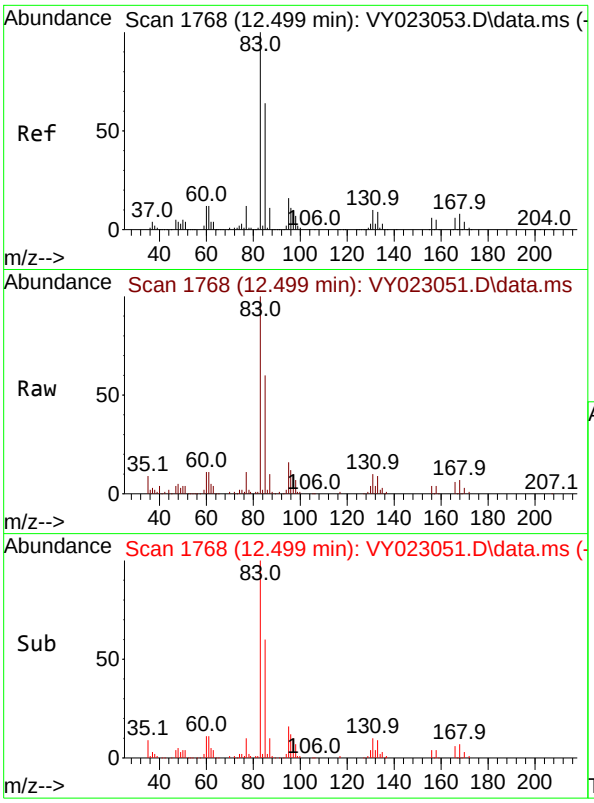



#74
N-amyl acetate
Concen: 9.857 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 43 Resp: 53943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 47.0 | 37.5 | 56.3 |
| 55 | 30.2 | 20.7 | 31.1 |
| 61 | 25.7 | 20.7 | 31.1 |






#75
1,1,2,2-Tetrachloroethane
Concen: 10.735 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 83 Resp: 4730

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 11.0 | 5.1 | 15.3 |
| 85 | 62.9 | 31.8 | 95.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

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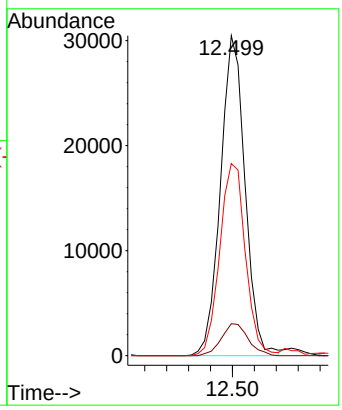
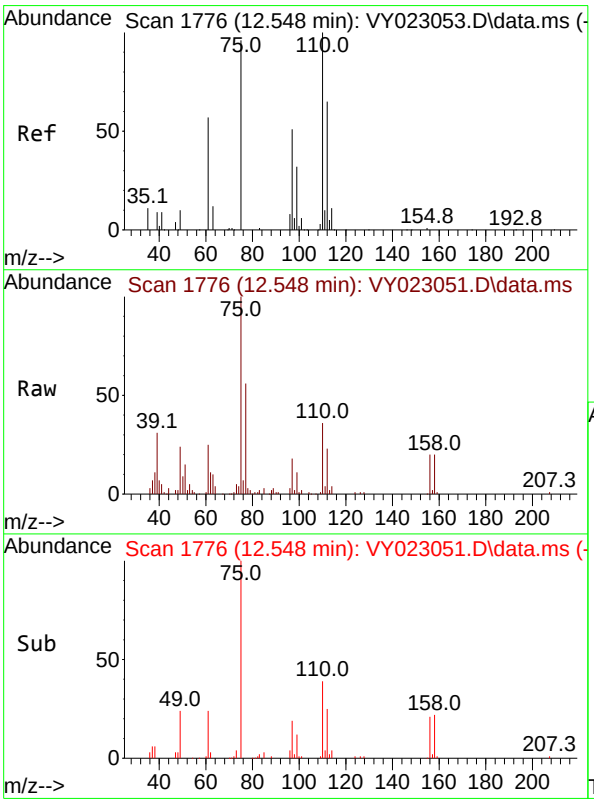
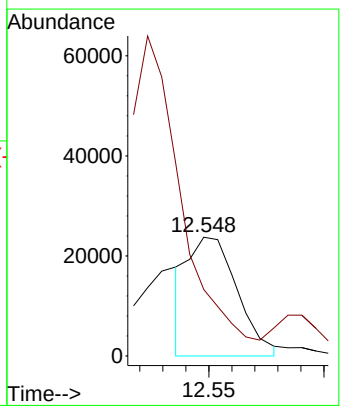


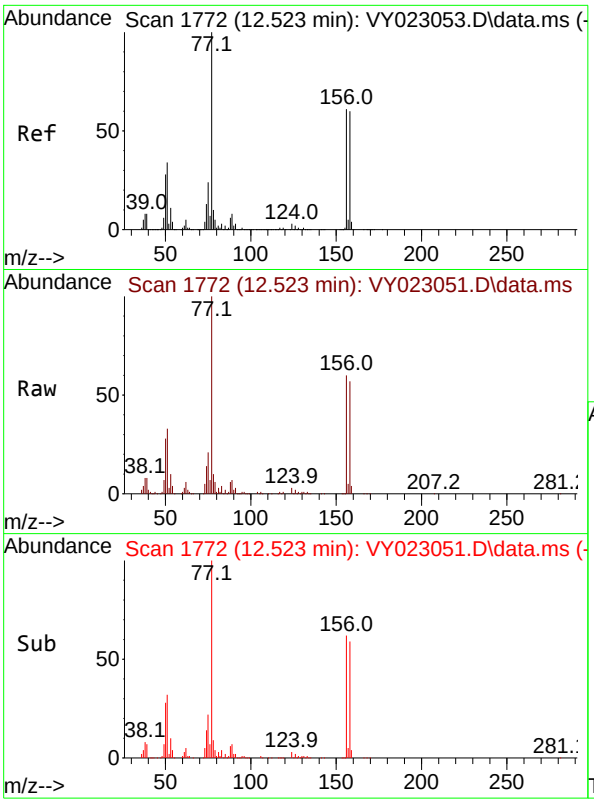




#76
1,2,3-Trichloropropane
Concen: 10.012 ug/l m
RT: 12.548 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 75 Resp: 35353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |

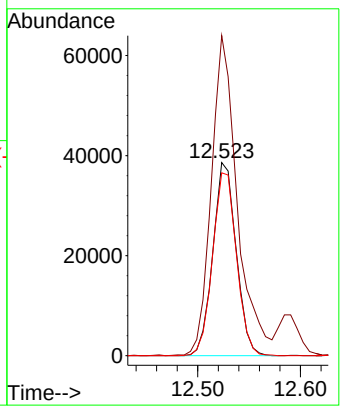





#77
Bromobenzene
Concen: 9.864 ug/l
RT: 12.523 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:156 Resp: 6072

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 184.8 | 88.1 | 264.4 |
| 158 | 97.2 | 48.0 | 144.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
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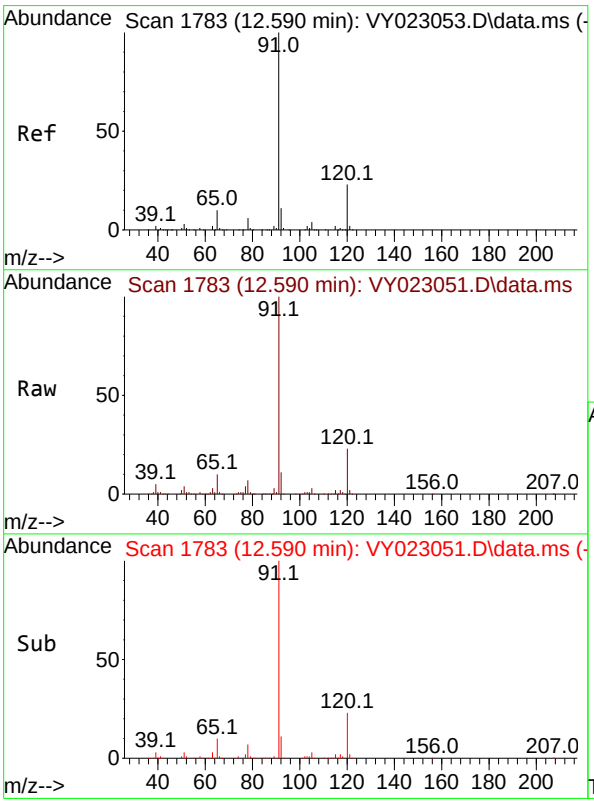
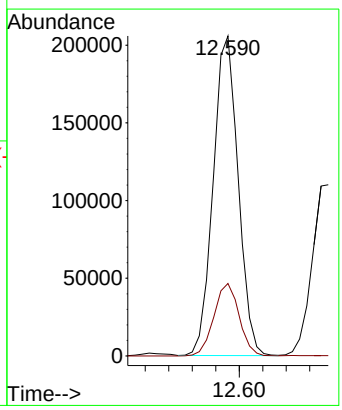
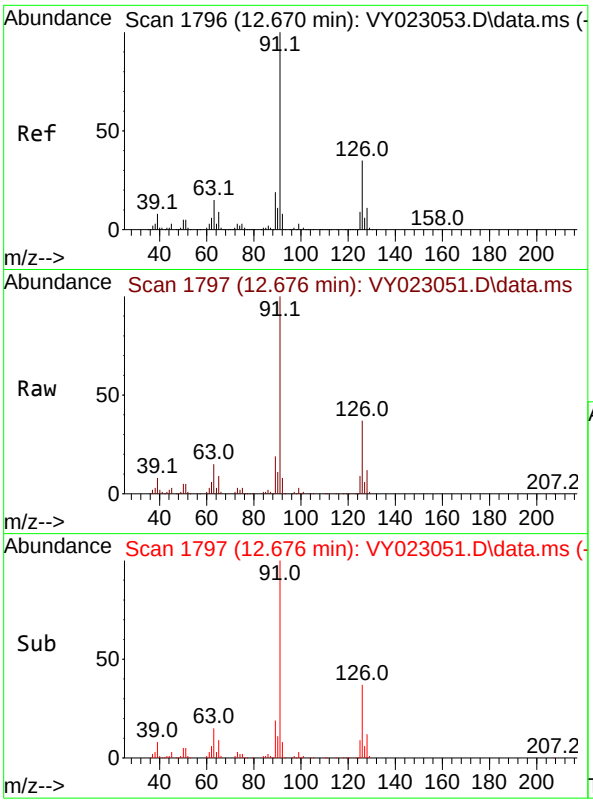



#78
n-propylbenzene
Concen: 9.876 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 91 Resp: 303440

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.9 | 11.5 | 34.5 |

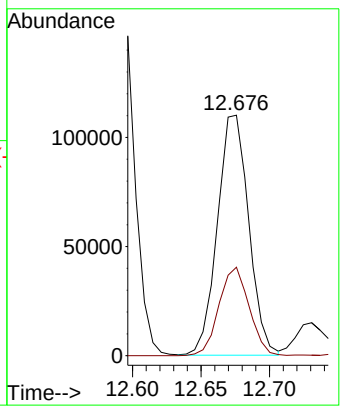





#79
2-Chlorotoluene
Concen: 9.962 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 91 Resp: 17536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.6 | 17.4 | 52.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
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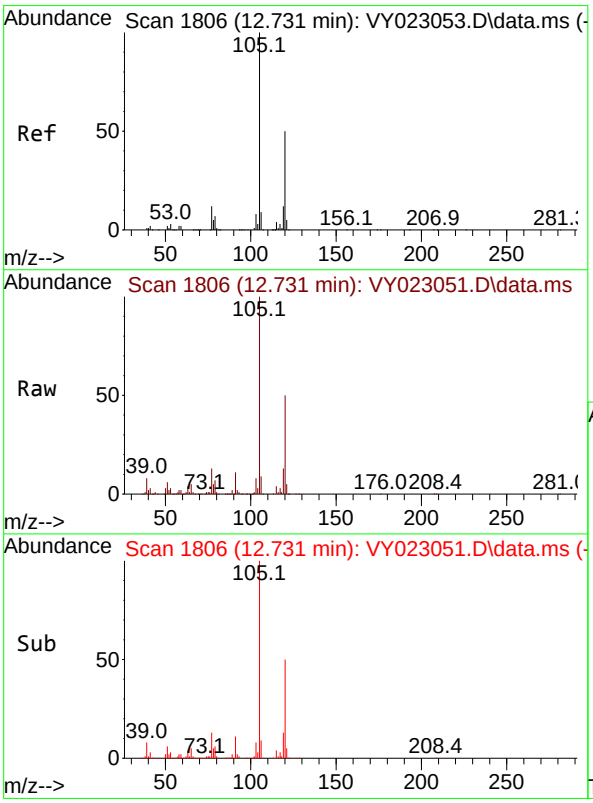
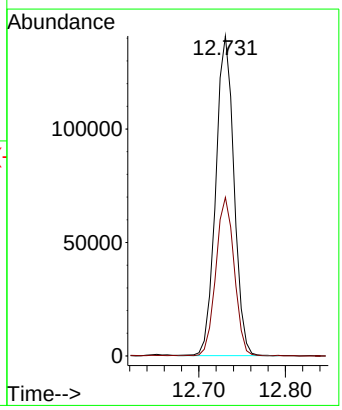
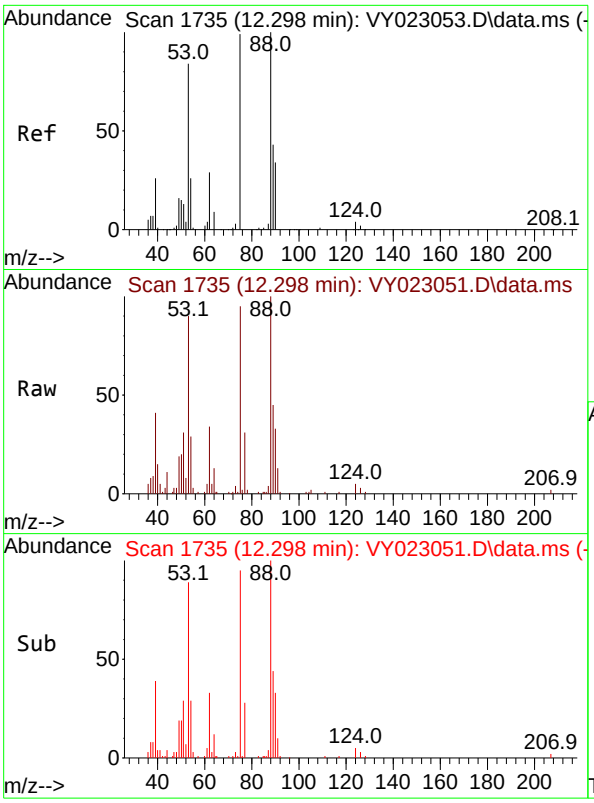



#80
1,3,5-Trimethylbenzene
Concen: 9.855 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:105 Resp: 205544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.8 | 24.8 | 74.4 |






#81
trans-1,4-Dichloro-2-butene
Concen: 10.780 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 75 Resp: 1571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 91.4 | 70.8 | 106.2 |
| 89 | 44.0 | 38.1 | 57.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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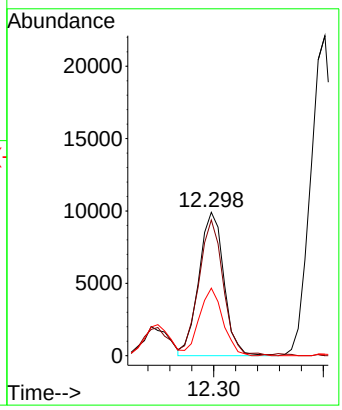
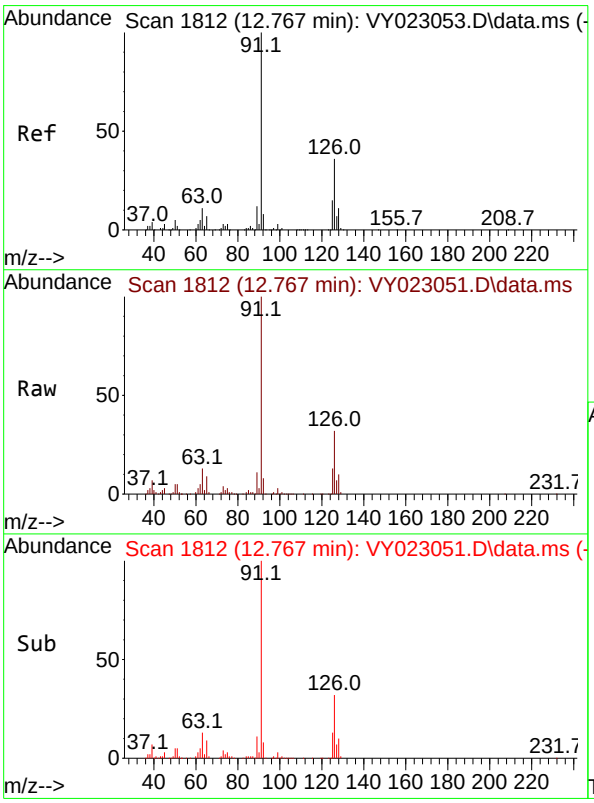
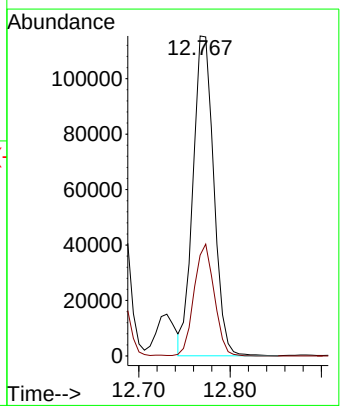


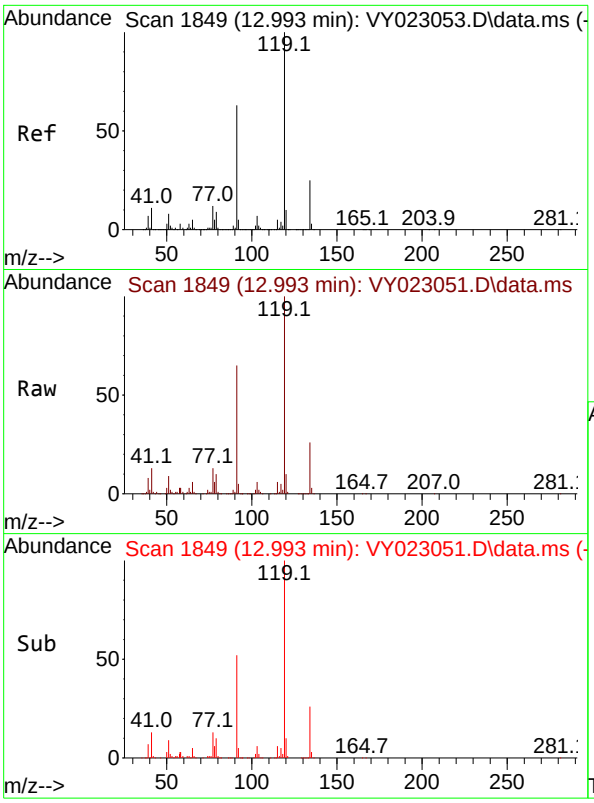




#82
4-Chlorotoluene
Concen: 9.956 ug/l
RT: 12.767 min Scan# 1812
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 91 Resp: 181812

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.1 | 17.3 | 52.0 |

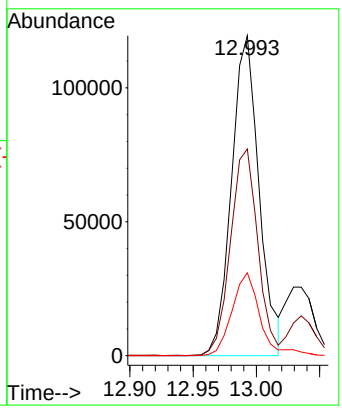





#83
tert-Butylbenzene
Concen: 9.630 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:119 Resp: 18140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 63.9 | 31.6 | 94.8 |
| 134 | 26.4 | 12.9 | 38.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
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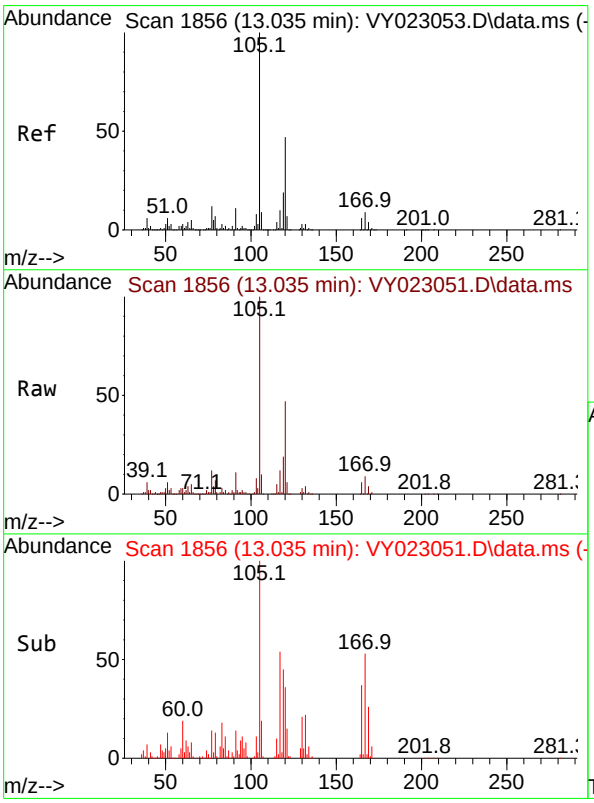
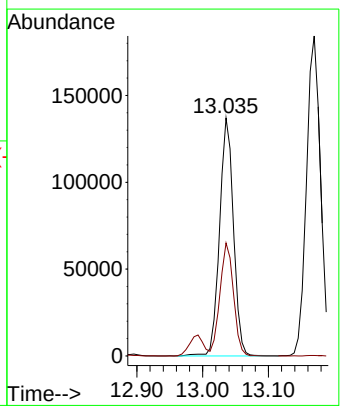
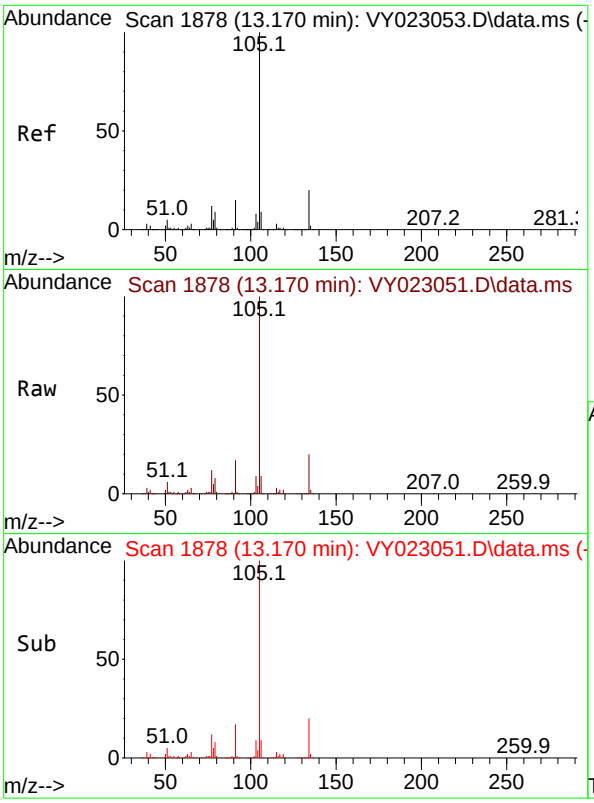



#84
1,2,4-Trimethylbenzene
Concen: 9.720 ug/l
RT: 13.035 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:105 Resp: 201812

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.1 | 23.0 | 69.0 |






#85
sec-Butylbenzene
Concen: 9.908 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

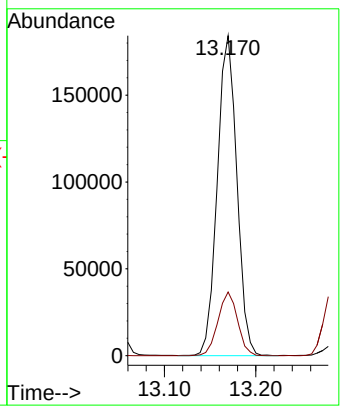
Tgt Ion:105 Resp: 27417

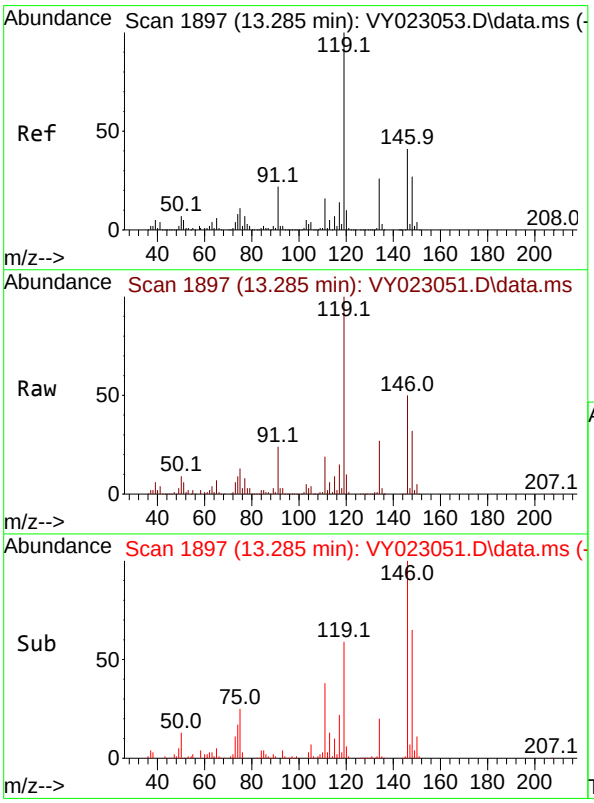
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.9 | 10.2 | 30.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

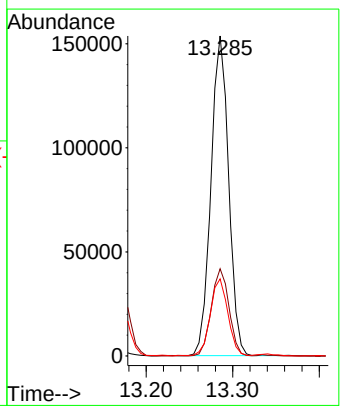


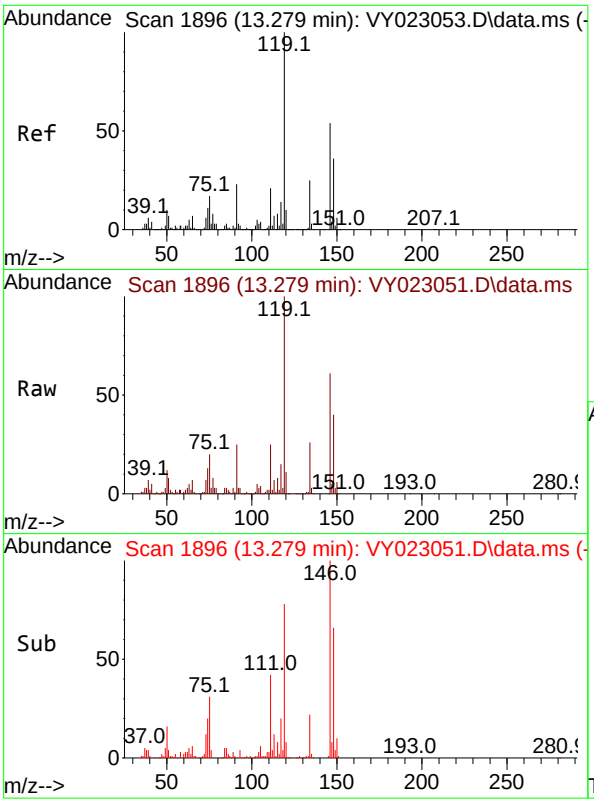




#86
p-Isopropyltoluene
Concen: 9.482 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:119 Resp: 217799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 27.3 | 13.2 | 39.6 |
| 91 | 23.9 | 11.3 | 33.8 |

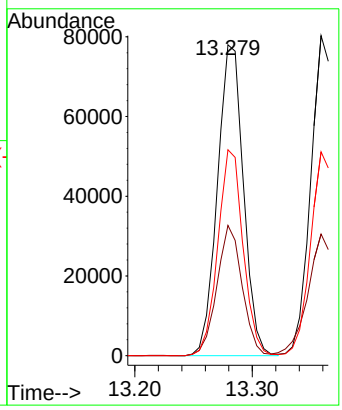





#87
1,3-Dichlorobenzene
Concen: 9.893 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:146 Resp: 12010

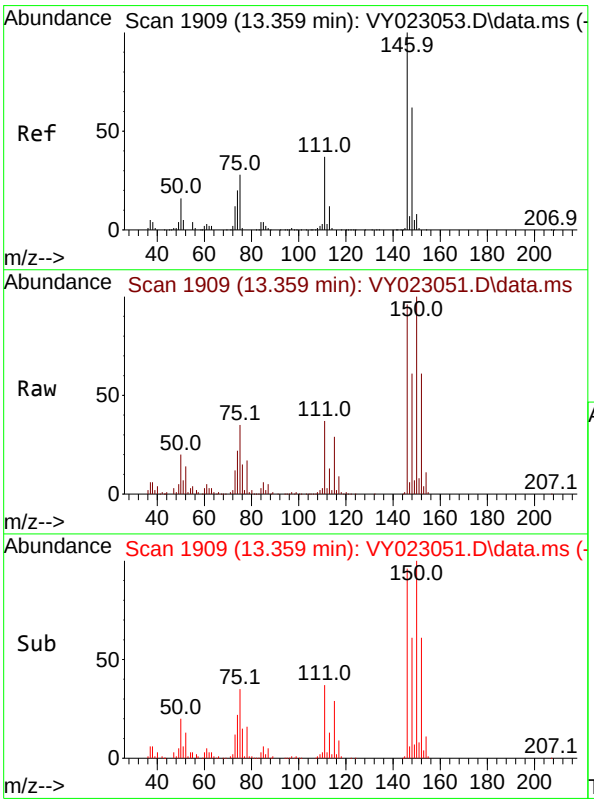
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.6 | 19.6 | 58.7 |
| 148 | 64.3 | 32.5 | 97.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

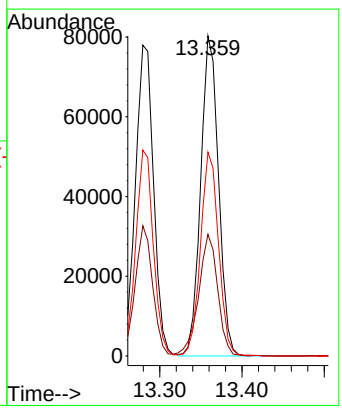
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

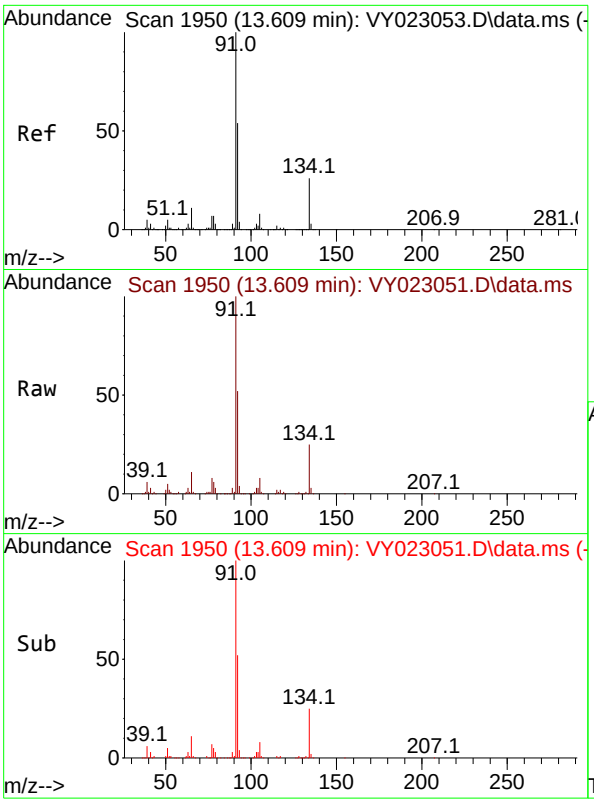



#88
1,4-Dichlorobenzene
Concen: 10.060 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:146 Resp: 121160

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.7 | 19.1 | 57.1 |
| 148 | 64.3 | 31.6 | 94.7 |

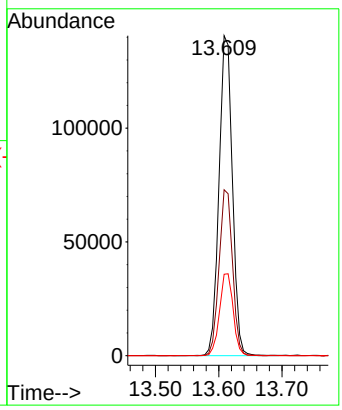





#89
n-Butylbenzene
Concen: 9.737 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 91 Resp: 20542

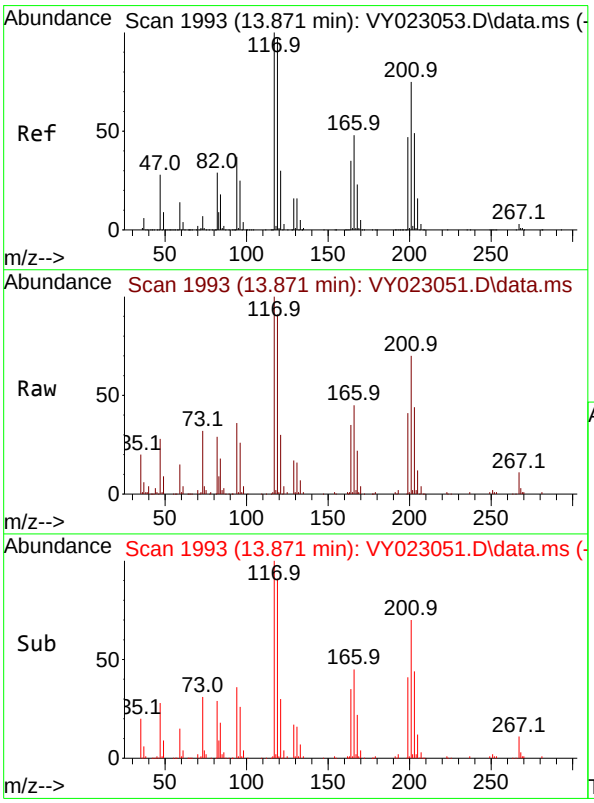
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.1 | 26.9 | 80.7 |
| 134 | 26.1 | 13.2 | 39.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

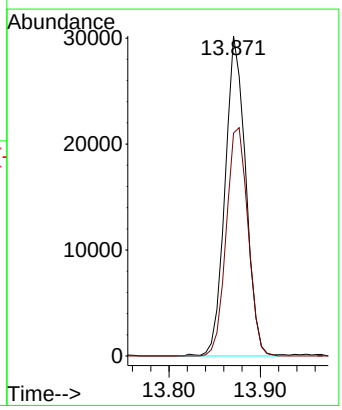
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

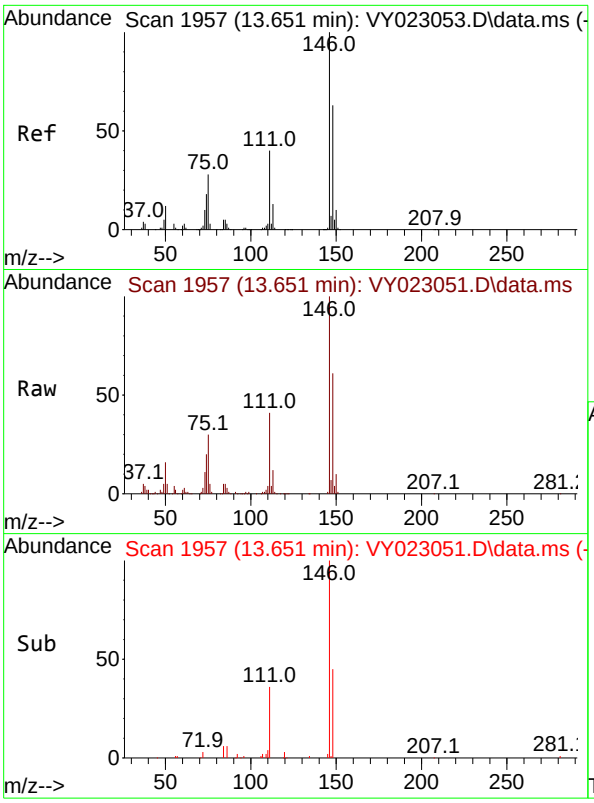



#90
Hexachloroethane
Concen: 10.071 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:117 Resp: 47353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 75.3 | 38.4 | 115.1 |

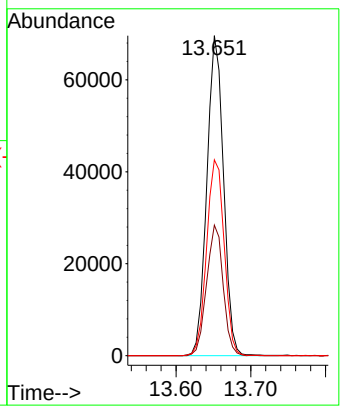





#91
1,2-Dichlorobenzene
Concen: 10.110 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:146 Resp: 10765

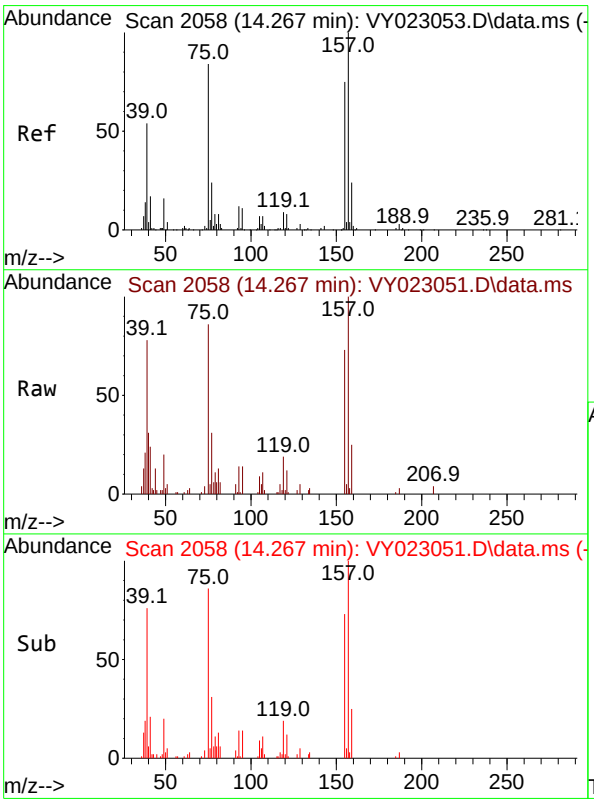
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.5 | 20.3 | 60.8 |
| 148 | 64.5 | 32.2 | 96.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

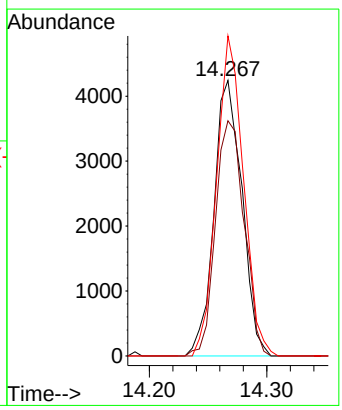
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

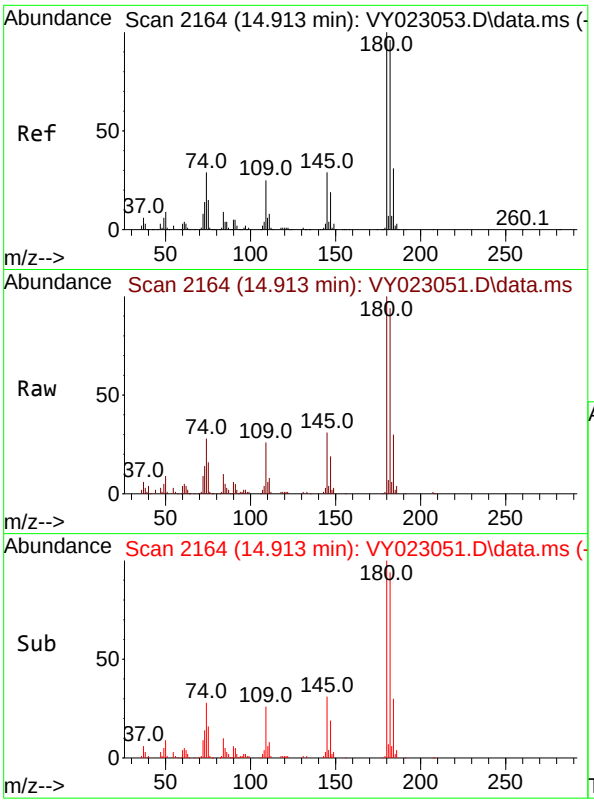



#92
1,2-Dibromo-3-Chloropropane
Concen: 10.250 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 75 Resp: 7032

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 87.6 | 43.9 | 131.6 |
| 157 | 111.5 | 57.2 | 171.6 |

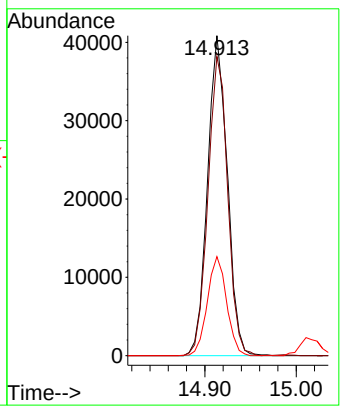





#93
1,2,4-Trichlorobenzene
Concen: 9.739 ug/l
RT: 14.913 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:180 Resp: 6132

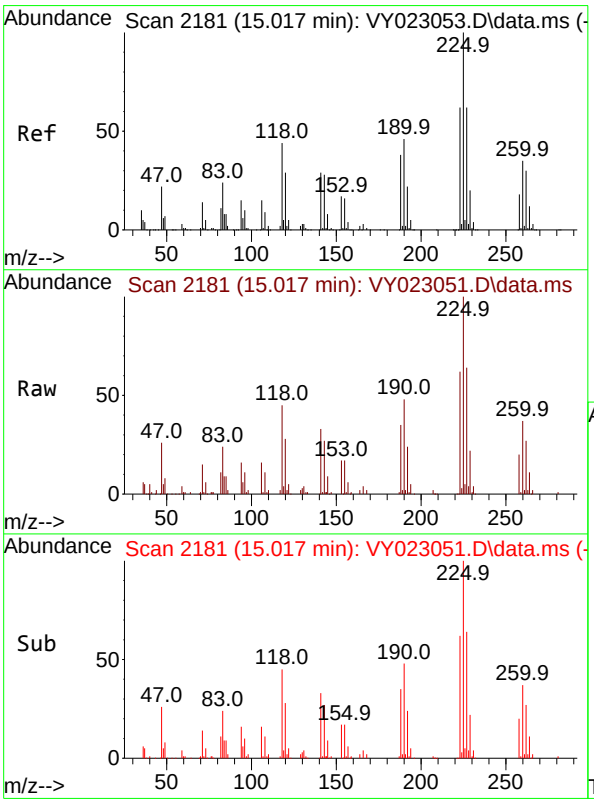
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.2 | 46.8 | 140.4 |
| 145 | 30.2 | 14.4 | 43.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

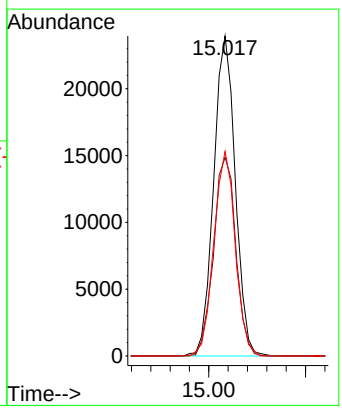
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

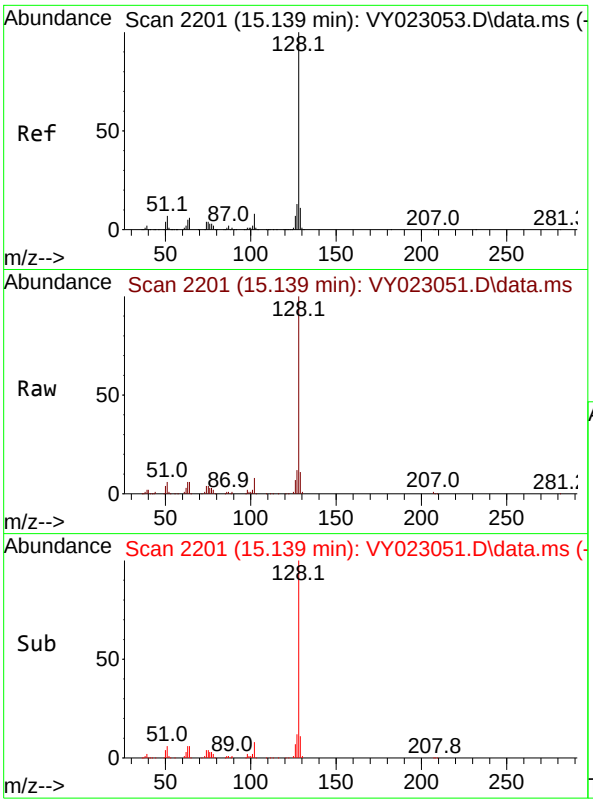



#94
Hexachlorobutadiene
Concen: 10.003 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:225 Resp: 37011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 64.1 | 31.3 | 93.8 |
| 227 | 63.5 | 31.5 | 94.5 |

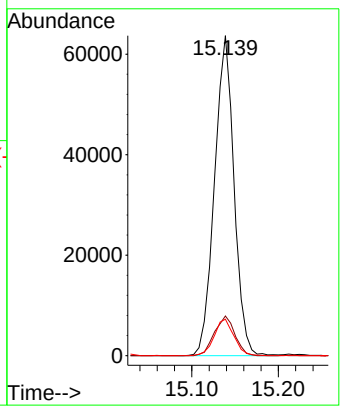





#95
Naphthalene
Concen: 9.293 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:128 Resp: 9978

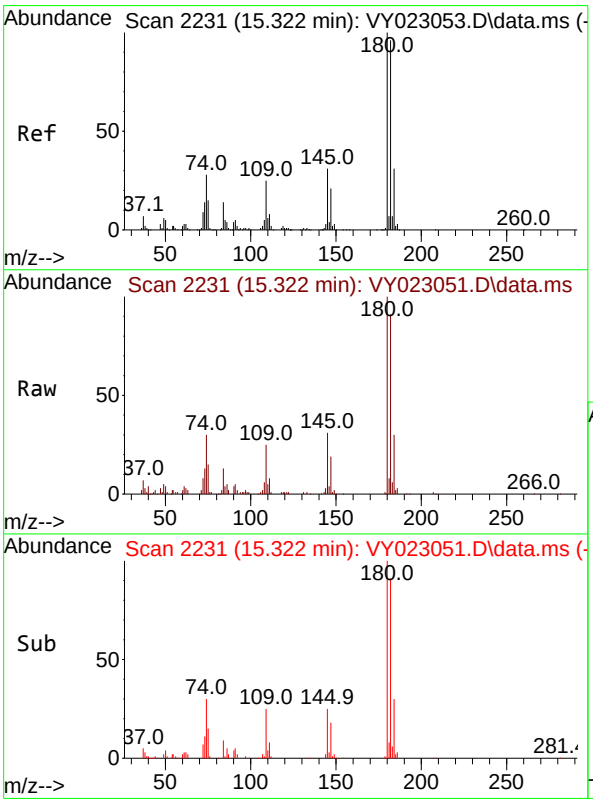
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.9 | 10.4 | 15.6 |
| 129 | 11.6 | 9.0 | 13.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

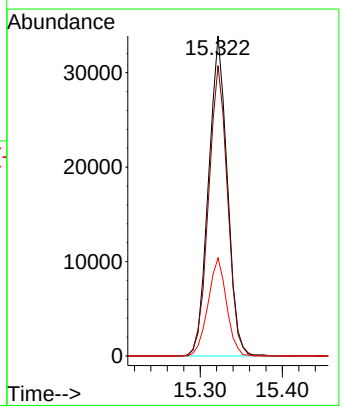
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025




#96
1,2,3-Trichlorobenzene
Concen: 9.883 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:180 Resp: 53626

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 91.9 | 47.9 | 143.7 |
| 145 | 30.2 | 15.9 | 47.7 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023052.D
Acq On : 12 Aug 2025 15:40
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:52:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 537748 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.610 | 114 | 848953 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 745484 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 370932 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.055 | 65 | 103755 | 20.244 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 40.480%# | | |
| 35) Dibromofluoromethane | 7.628 | 113 | 102068 | 20.093 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 40.180%# | | |
| 50) Toluene-d8 | 10.103 | 98 | 398394 | 20.075 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 40.160%# | | |
| 62) 4-Bromofluorobenzene | 12.402 | 95 | 124467 | 19.503 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = | 39.000% | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.861 | 85 | 98926 | 22.537 | ug/l | 98 |
| 3) Chloromethane | 2.068 | 50 | 158310 | 22.268 | ug/l | 99 |
| 4) Vinyl Chloride | 2.202 | 62 | 188307 | 21.427 | ug/l | 99 |
| 5) Bromomethane | 2.586 | 94 | 140517 | 21.410 | ug/l | 99 |
| 6) Chloroethane | 2.726 | 64 | 122310 | 20.934 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.050 | 101 | 225373 | 21.090 | ug/l | 99 |
| 8) Diethyl Ether | 3.452 | 74 | 58245 | 20.602 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 3.805 | 101 | 112116 | 21.267 | ug/l | 99 |
| 10) Methyl Iodide | 3.994 | 142 | 115879 | 20.370 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.860 | 59 | 35192 | 100.214 | ug/l | 98 |
| 12) 1,1-Dichloroethene | 3.781 | 96 | 107992 | 20.840 | ug/l | 99 |
| 13) Acrolein | 3.653 | 56 | 54065 | 105.126 | ug/l | 100 |
| 14) Allyl chloride | 4.379 | 41 | 155709 | 20.421 | ug/l | 97 |
| 15) Acrylonitrile | 5.055 | 53 | 120151 | 104.535 | ug/l | 97 |
| 16) Acetone | 3.866 | 43 | 113468 | 102.193 | ug/l | 96 |
| 17) Carbon Disulfide | 4.098 | 76 | 357484 | 21.157 | ug/l | 98 |
| 18) Methyl Acetate | 4.379 | 43 | 69853 | 21.141 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.110 | 73 | 278863 | 20.767 | ug/l | 99 |
| 20) Methylene Chloride | 4.610 | 84 | 130416 | 21.069 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 5.104 | 96 | 120321 | 20.661 | ug/l | 96 |
| 22) Diisopropyl ether | 6.012 | 45 | 346195 | 20.894 | ug/l | 95 |
| 23) Vinyl Acetate | 5.951 | 43 | 941364 | 102.748 | ug/l | 97 |
| 24) 1,1-Dichloroethane | 5.909 | 63 | 211558 | 20.884 | ug/l | 98 |
| 25) 2-Butanone | 6.890 | 43 | 153363 | 101.559 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 6.878 | 77 | 181528 | 20.767 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 6.884 | 96 | 138775 | 20.613 | ug/l | 99 |
| 28) Bromochloromethane | 7.244 | 49 | 84540 | 21.035 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.262 | 42 | 95795 | 102.341 | ug/l | 99 |
| 30) Chloroform | 7.415 | 83 | 215585 | 20.635 | ug/l | 98 |
| 31) Cyclohexane | 7.701 | 56 | 194671 | 20.393 | ug/l | 96 |
| 32) 1,1,1-Trichloroethane | 7.610 | 97 | 193268 | 20.848 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 156617 | 20.746 | ug/l | 98 |
| 37) Ethyl Acetate | 6.982 | 43 | 66420 | 20.944 | ug/l | 100 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 171344 | 20.897 | ug/l | 98 |
| 39) Methylcyclohexane | 9.103 | 83 | 205594 | 20.680 | ug/l | 98 |
| 40) Benzene | 8.079 | 78 | 485631 | 20.871 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023052.D
Acq On : 12 Aug 2025 15:40
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 13 01:52:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.226 | 41 | 37785m | 20.623 | ug/l | | |
| 42) 1,2-Dichloroethane | 8.152 | 62 | 126111 | 20.839 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.195 | 43 | 131854 | 20.571 | ug/l | | 98 |
| 44) Trichloroethene | 8.859 | 130 | 126772 | 21.083 | ug/l | | 98 |
| 45) 1,2-Dichloropropane | 9.134 | 63 | 110699 | 20.677 | ug/l | | 99 |
| 46) Dibromomethane | 9.225 | 93 | 63410 | 20.635 | ug/l | | 98 |
| 47) Bromodichloromethane | 9.420 | 83 | 165954 | 20.988 | ug/l | | 96 |
| 48) Methyl methacrylate | 9.219 | 41 | 64120 | 20.905 | ug/l | | 98 |
| 49) 1,4-Dioxane | 9.225 | 88 | 14826 | 411.480 | ug/l | | 98 |
| 51) 4-Methyl-2-Pentanone | 9.993 | 43 | 339298 | 102.622 | ug/l | | 100 |
| 52) Toluene | 10.164 | 92 | 306193 | 20.719 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 147696 | 20.627 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 174243 | 20.580 | ug/l | | 96 |
| 55) 1,1,2-Trichloroethane | 10.566 | 97 | 86022 | 20.920 | ug/l | | 99 |
| 56) Ethyl methacrylate | 10.432 | 69 | 105816 | 20.111 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 145621 | 20.882 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 244340 | 98.450 | ug/l | | 99 |
| 59) 2-Hexanone | 10.755 | 43 | 231872 | 102.992 | ug/l | | 99 |
| 60) Dibromochloromethane | 10.908 | 129 | 110810 | 20.424 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.012 | 107 | 80549 | 20.842 | ug/l | | 97 |
| 64) Tetrachloroethene | 10.640 | 164 | 141609 | 21.273 | ug/l | | 99 |
| 65) Chlorobenzene | 11.438 | 112 | 332700 | 20.690 | ug/l | | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 11.511 | 131 | 112677 | 20.647 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.511 | 91 | 564855 | 20.412 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.621 | 106 | 444361 | 41.115 | ug/l | | 98 |
| 69) o-Xylene | 11.950 | 106 | 207639 | 20.513 | ug/l | | 99 |
| 70) Styrene | 11.963 | 104 | 339891 | 20.532 | ug/l | | 99 |
| 71) Bromoform | 12.127 | 173 | 64275 | 20.151 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.249 | 105 | 534421 | 20.413 | ug/l | | 100 |
| 74) N-amyl acetate | 12.066 | 43 | 112297 | 20.227 | ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.499 | 83 | 89782 | 20.085 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.548 | 75 | 70070m | 19.560 | ug/l | | |
| 77) Bromobenzene | 12.523 | 156 | 128501 | 20.574 | ug/l | | 99 |
| 78) n-propylbenzene | 12.590 | 91 | 640528 | 20.550 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.670 | 91 | 365577 | 20.471 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.731 | 105 | 435074 | 20.563 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.298 | 75 | 30153 | 20.389 | ug/l | | 97 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 385755 | 20.822 | ug/l | | 99 |
| 83) tert-Butylbenzene | 12.993 | 119 | 389621 | 20.389 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.036 | 105 | 438392 | 20.814 | ug/l | | 98 |
| 85) sec-Butylbenzene | 13.170 | 105 | 575804 | 20.512 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.285 | 119 | 480937 | 20.640 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.279 | 146 | 252452 | 20.497 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.359 | 146 | 249280 | 20.403 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.609 | 91 | 440963 | 20.605 | ug/l | | 99 |
| 90) Hexachloroethane | 13.871 | 117 | 96478 | 20.226 | ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 13.651 | 146 | 222000 | 20.552 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.267 | 75 | 13973 | 20.076 | ug/l | | 98 |
| 93) 1,2,4-Trichlorobenzene | 14.913 | 180 | 130718 | 20.464 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 15.017 | 225 | 77511 | 20.650 | ug/l | | 99 |
| 95) Naphthalene | 15.139 | 128 | 216923 | 19.915 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.322 | 180 | 111506 | 20.258 | ug/l | | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023052.D
Acq On : 12 Aug 2025 15:40
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:52:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023052.D
Acq On : 12 Aug 2025 15:40
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 13 01:52:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
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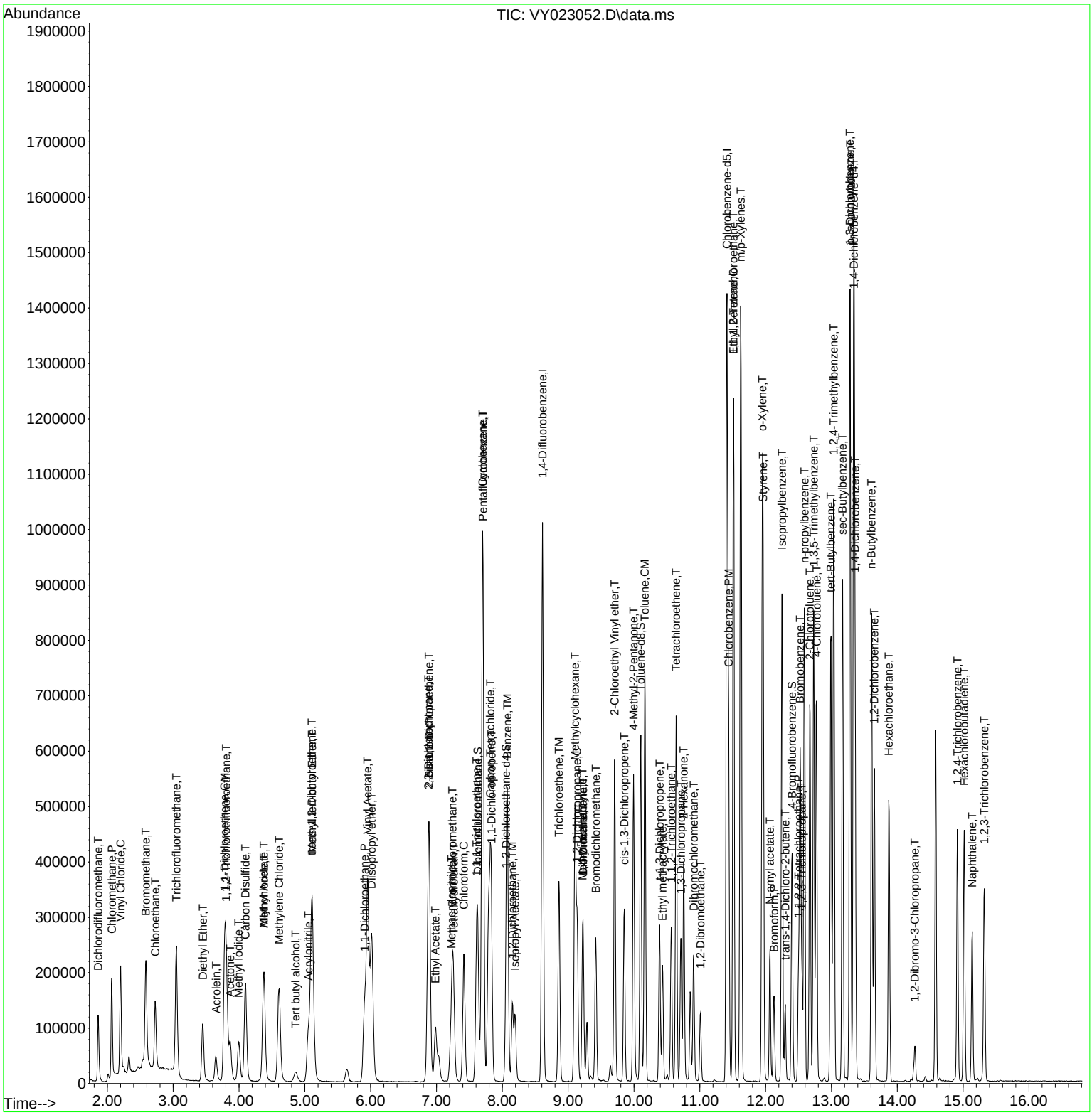
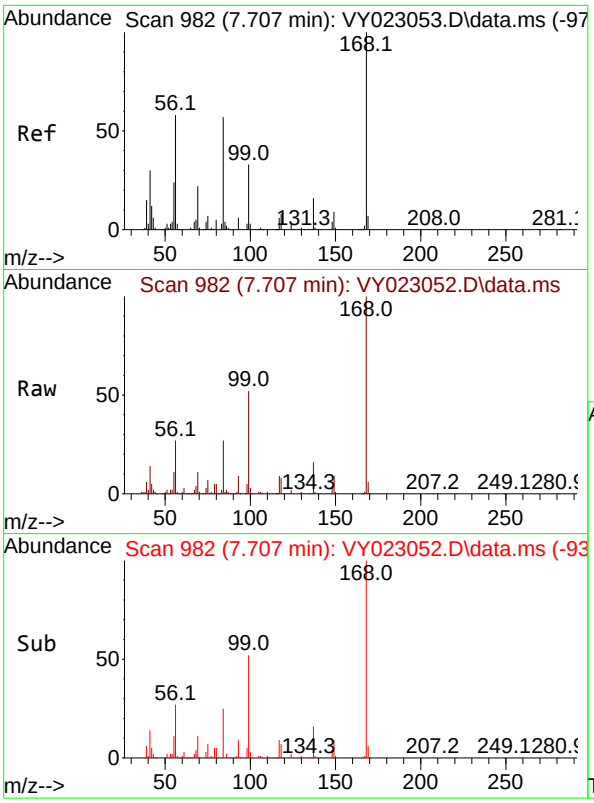
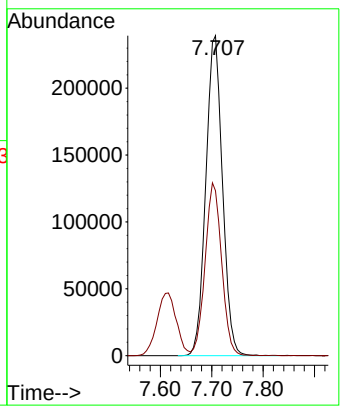





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:168 Resp: 53774

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 51.5 | 42.8 | 64.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
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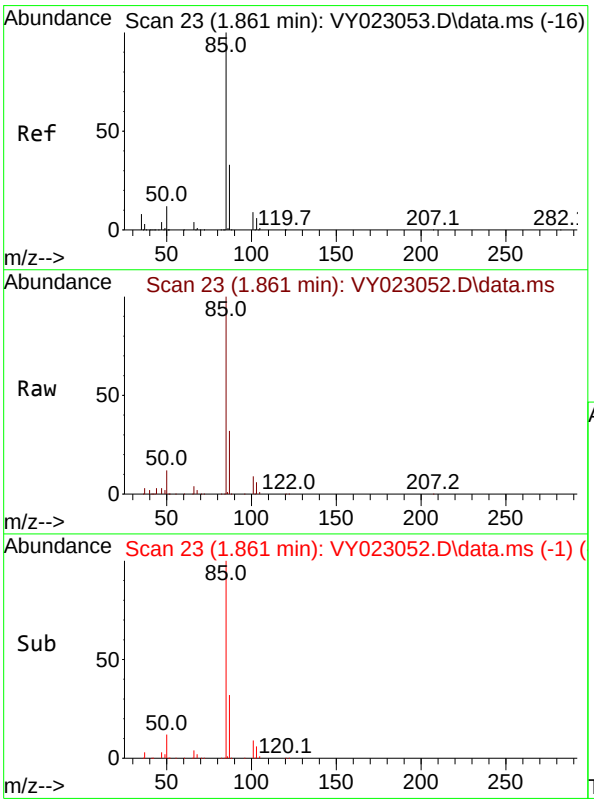
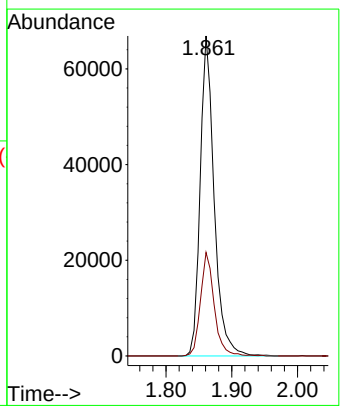
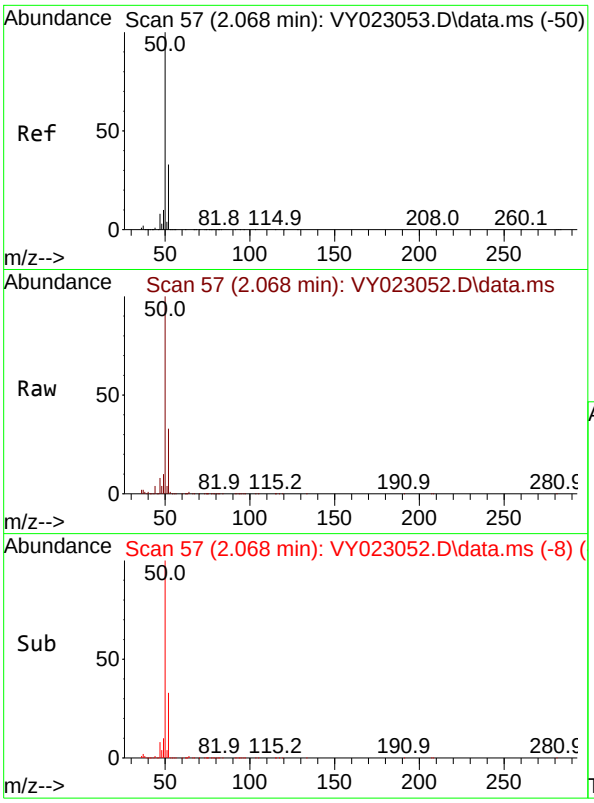



#2
Dichlorodifluoromethane
Concen: 22.537 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 85 Resp: 98926

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.3 | 16.6 | 49.8 |

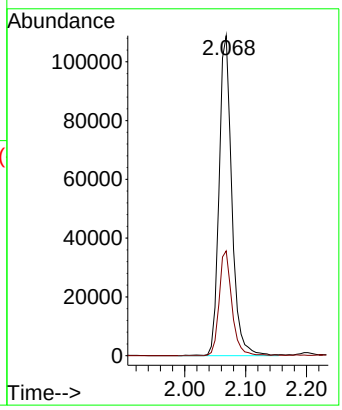





#3
Chloromethane
Concen: 22.268 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 50 Resp: 15831

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.8 | 26.7 | 40.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
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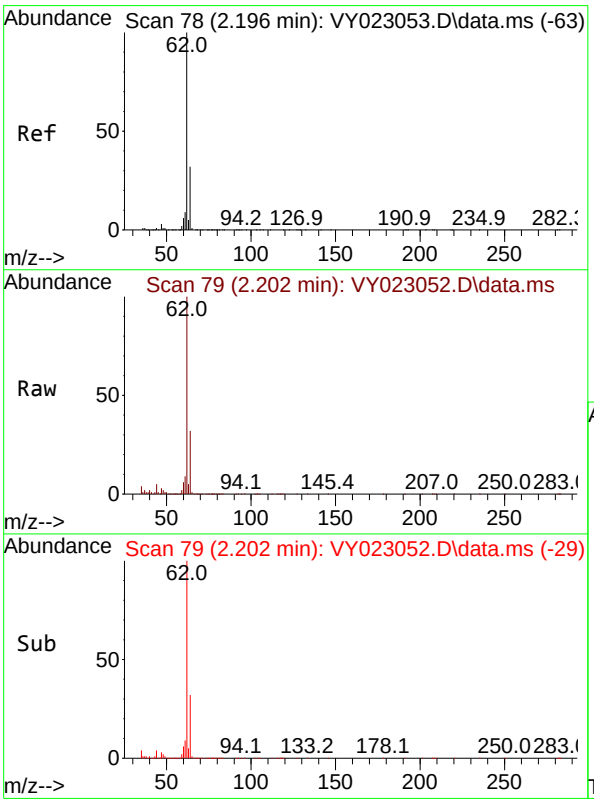
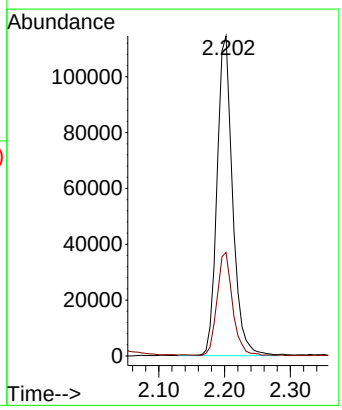
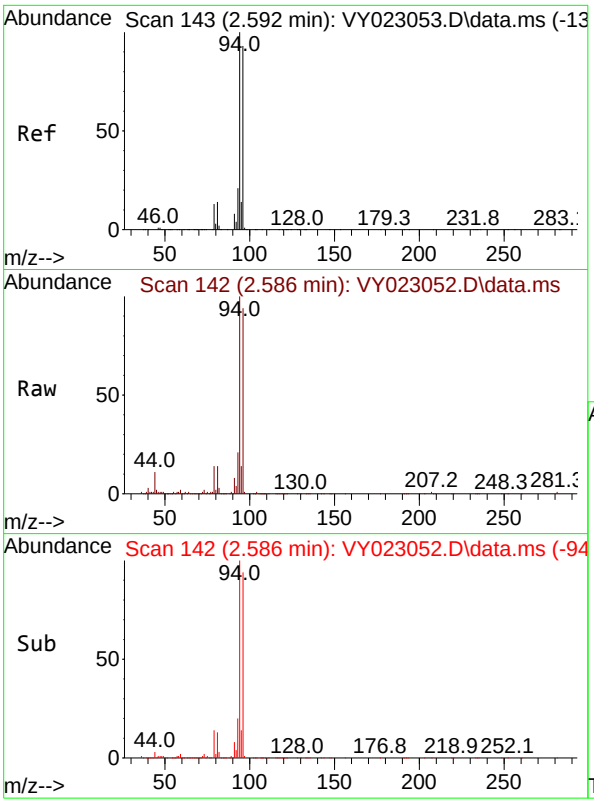



#4
Vinyl Chloride
Concen: 21.427 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 62 Resp: 188307

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.2 | 25.4 | 38.0 |

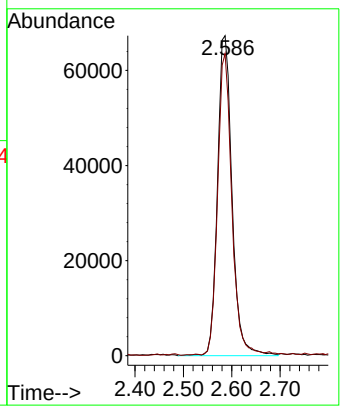





#5
Bromomethane
Concen: 21.410 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 94 Resp: 14051

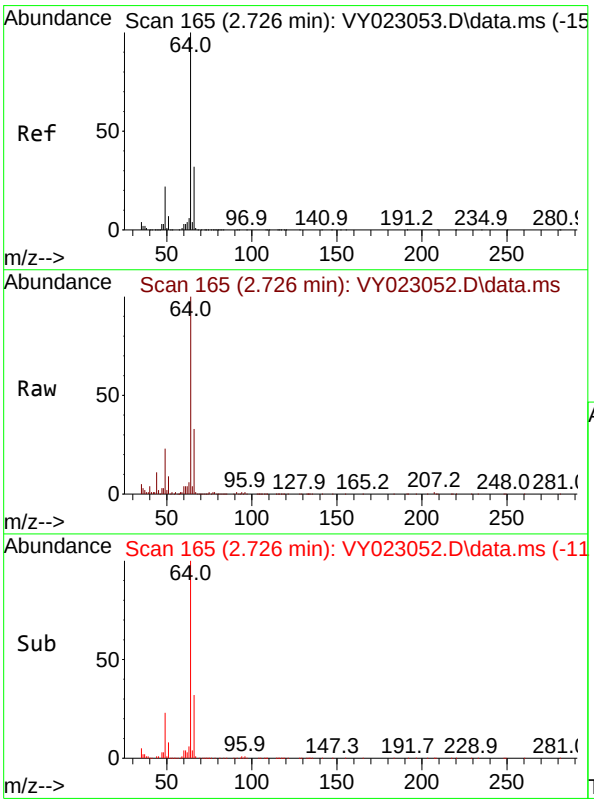
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 94.1 | 74.6 | 112.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

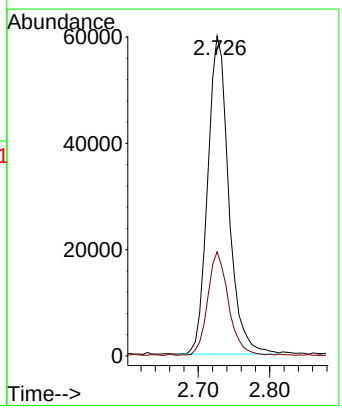
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

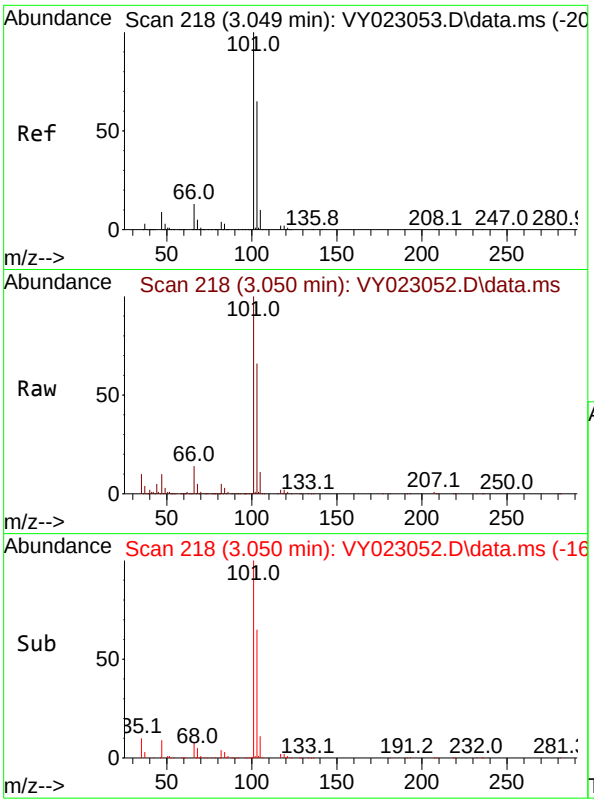



#6
Chloroethane
Concen: 20.934 ug/l
RT: 2.726 min Scan# 165
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 64 Resp: 122310

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.5 | 25.8 | 38.6 |

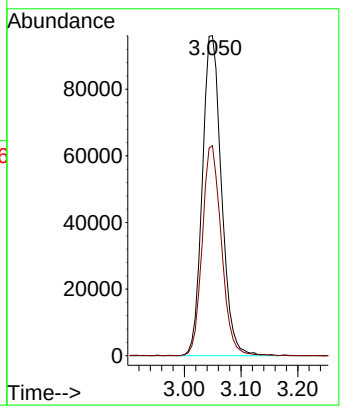





#7
Trichlorofluoromethane
Concen: 21.090 ug/l
RT: 3.050 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:101 Resp: 22537

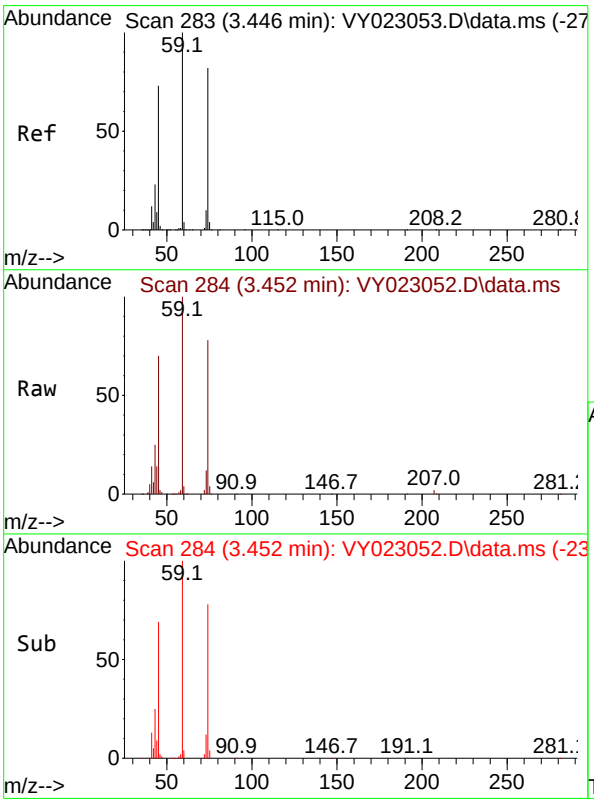
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.7 | 51.9 | 77.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

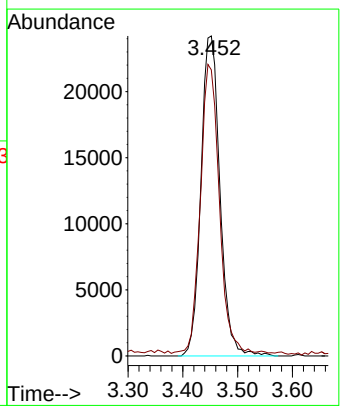
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

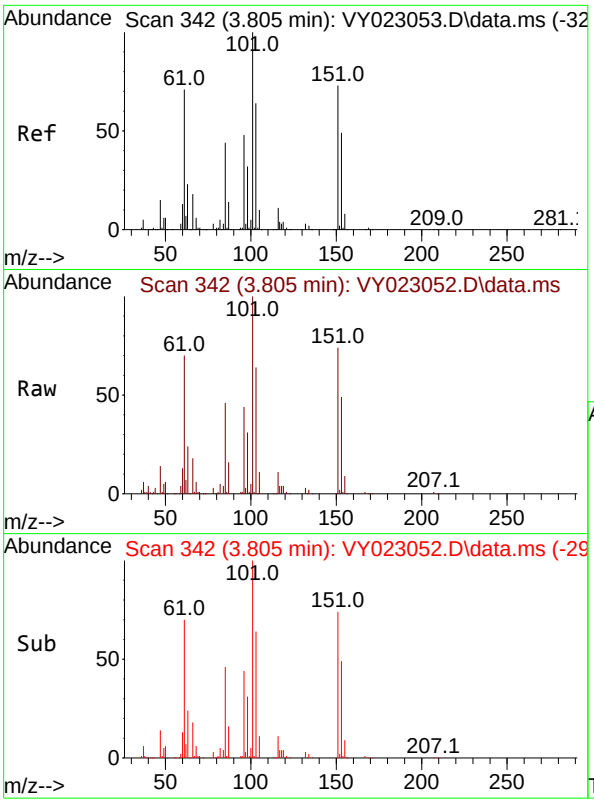



#8
Diethyl Ether
Concen: 20.602 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 74 Resp: 58245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 89.8 | 44.4 | 133.2 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.267 ug/l
RT: 3.805 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:101 Resp: 11211(

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 44.2 | 36.3 | 54.5 |
| 151 | 76.8 | 61.5 | 92.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
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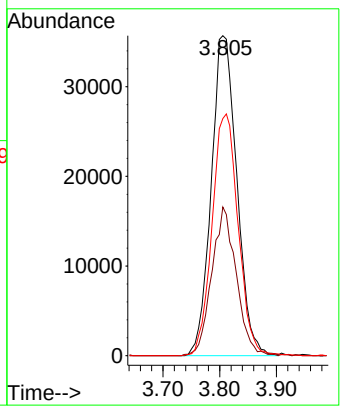
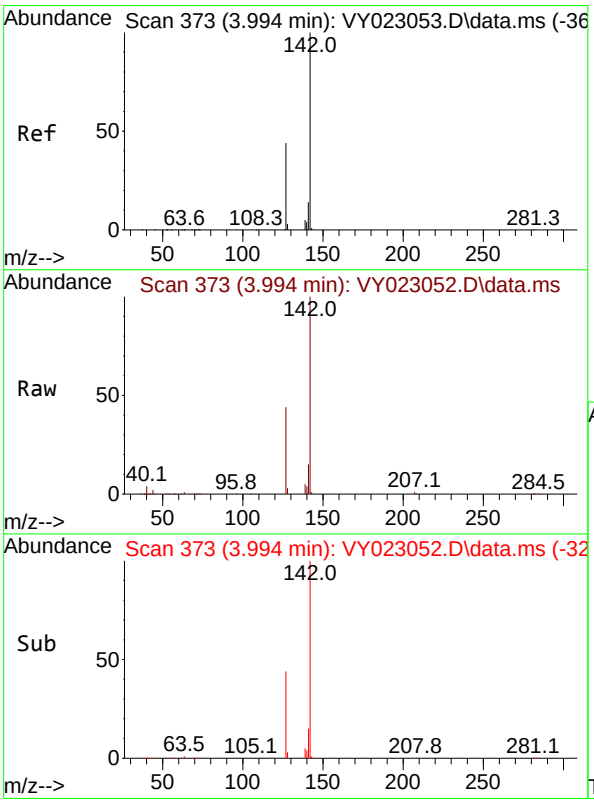
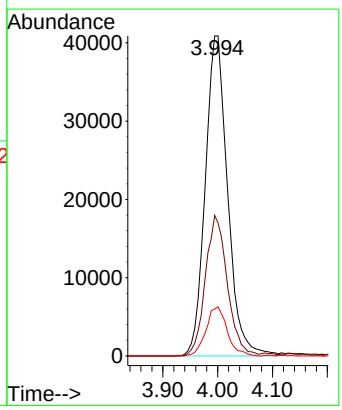


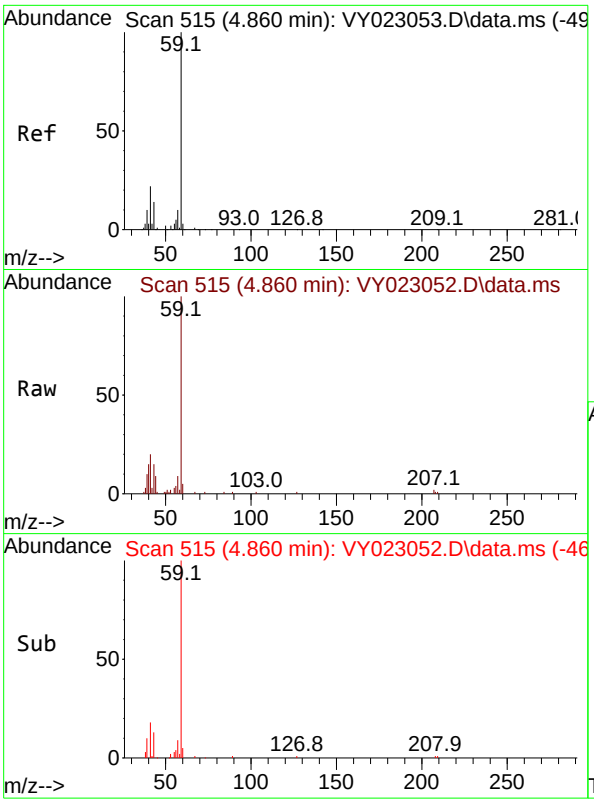




#10
Methyl Iodide
Concen: 20.370 ug/l
RT: 3.994 min Scan# 373
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:142 Resp: 115879

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 43.0 | 34.9 | 52.3 |
| 141 | 14.6 | 11.3 | 16.9 |

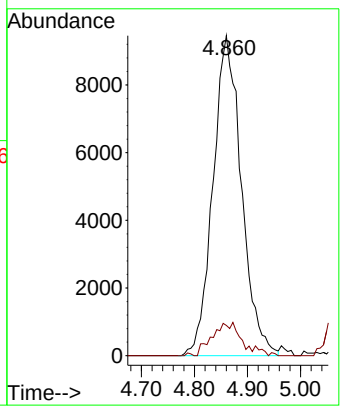





#11
Tert butyl alcohol
Concen: 100.214 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 59 Resp: 3519

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.0 | 8.6 | 13.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
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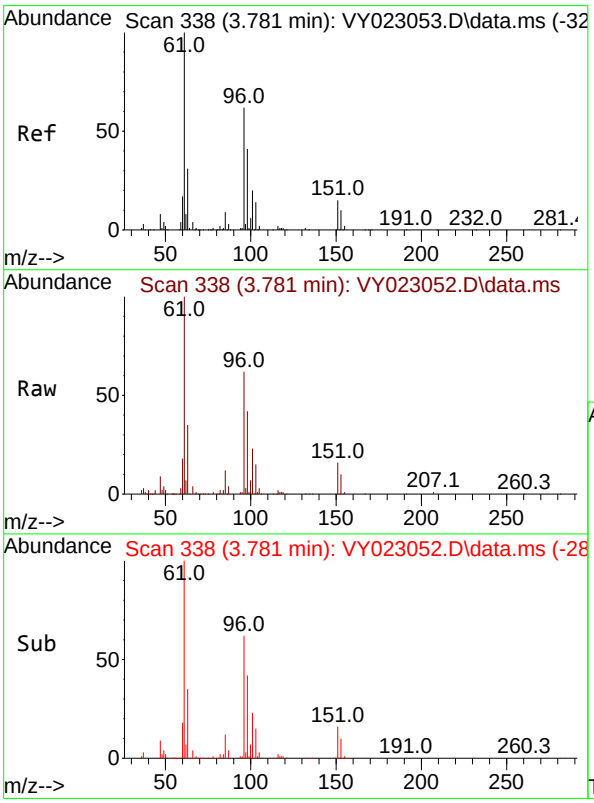
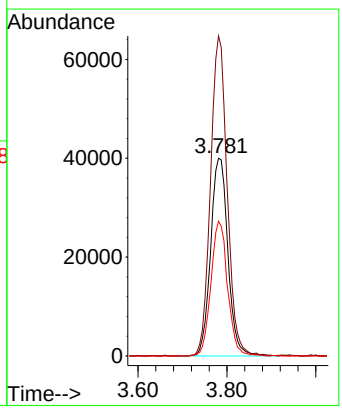
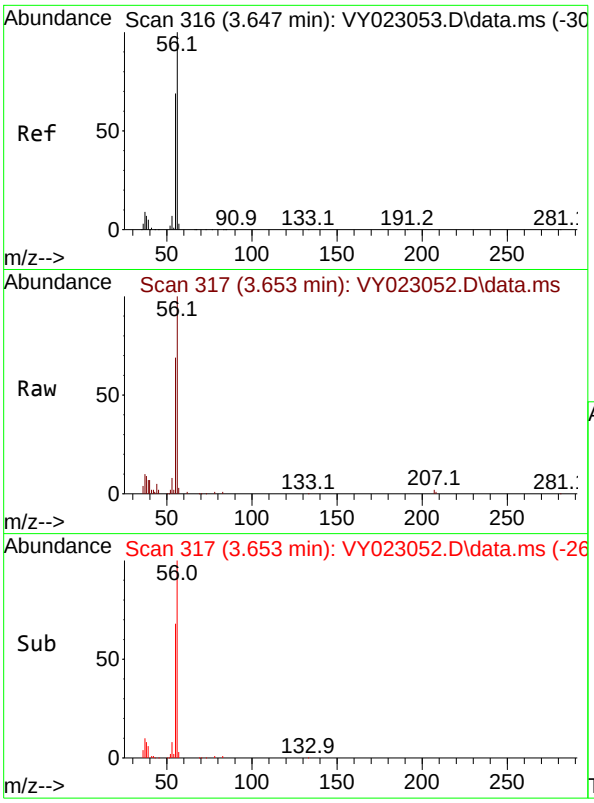



#12
1,1-Dichloroethene
Concen: 20.840 ug/l
RT: 3.781 min Scan# 338
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 96 Resp: 107992

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 161.8 | 129.4 | 194.2 |
| 98 | 68.1 | 52.8 | 79.2 |

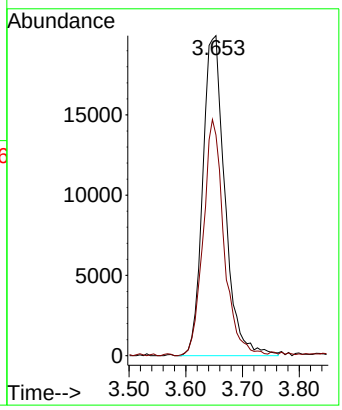





#13
Acrolein
Concen: 105.126 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 56 Resp: 5406

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 69.1 | 55.2 | 82.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
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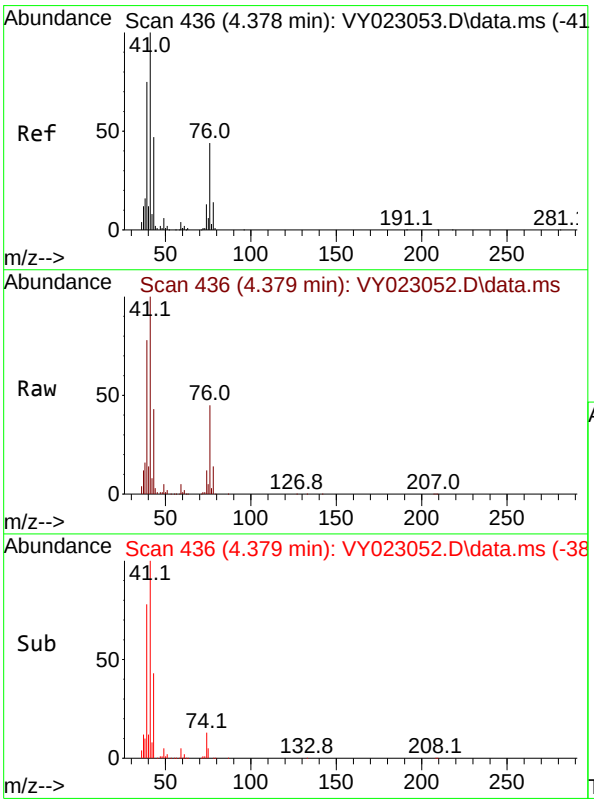
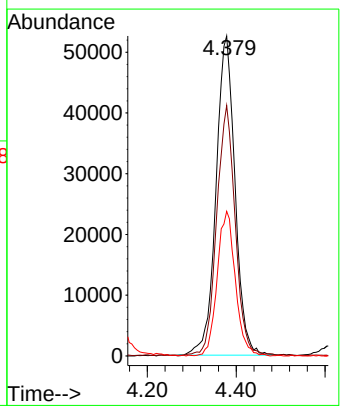
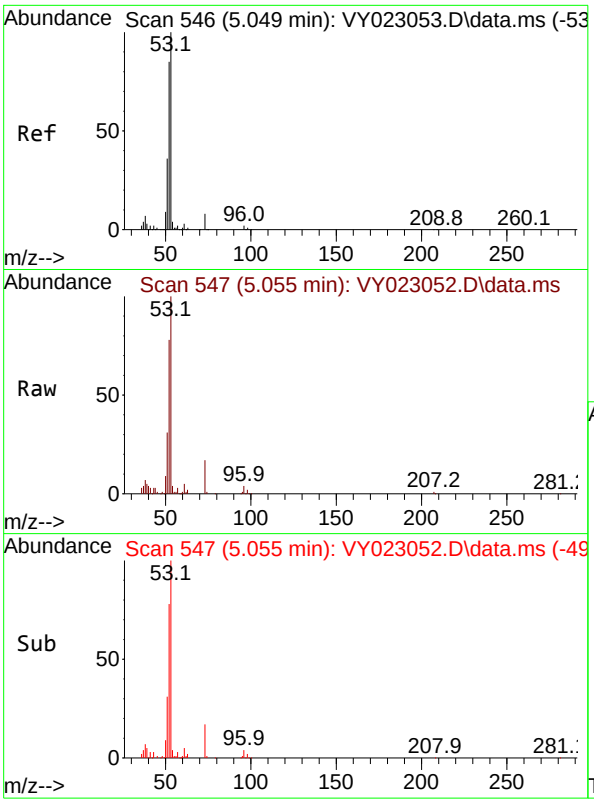



#14
Allyl chloride
Concen: 20.421 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 41 Resp: 155709

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 77.1 | 59.8 | 89.6 |
| 76 | 43.3 | 33.7 | 50.5 |






#15
Acrylonitrile
Concen: 104.535 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

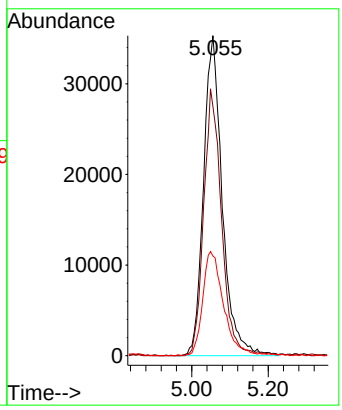
Tgt Ion: 53 Resp: 12015

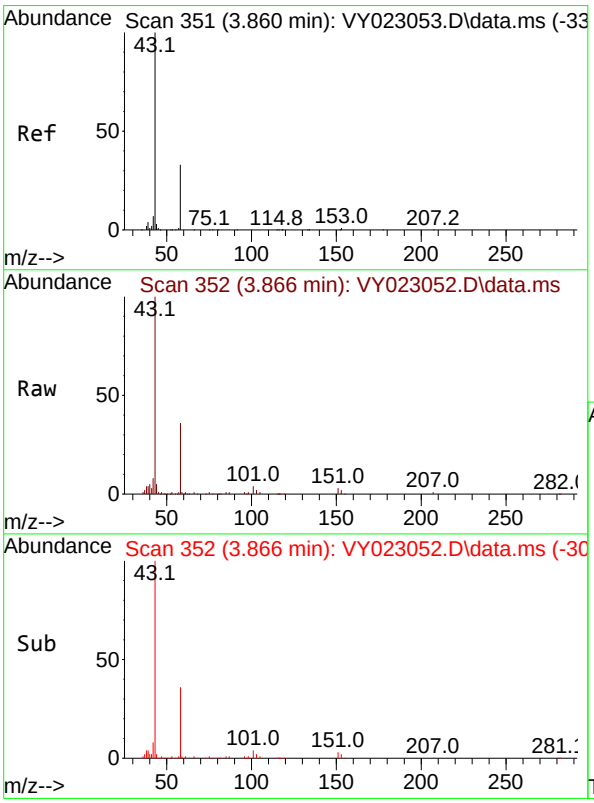
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 78.7 | 65.3 | 97.9 |
| 51 | 35.9 | 29.5 | 44.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

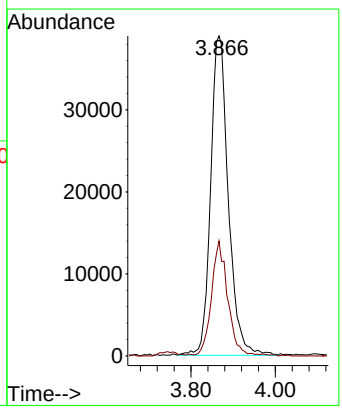


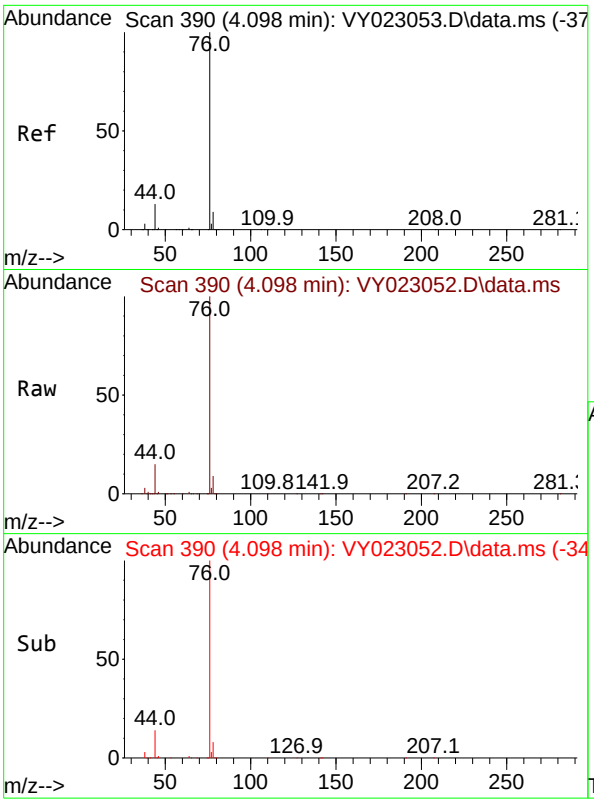




#16
Acetone
Concen: 102.193 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 43 Resp: 113468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 36.0 | 27.1 | 40.7 |

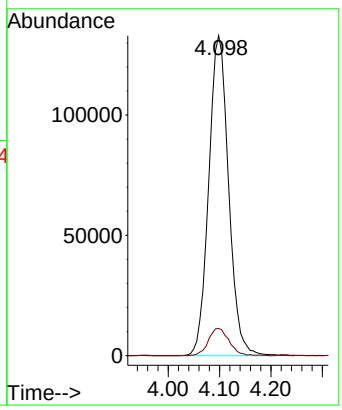





#17
Carbon Disulfide
Concen: 21.157 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 76 Resp: 35748

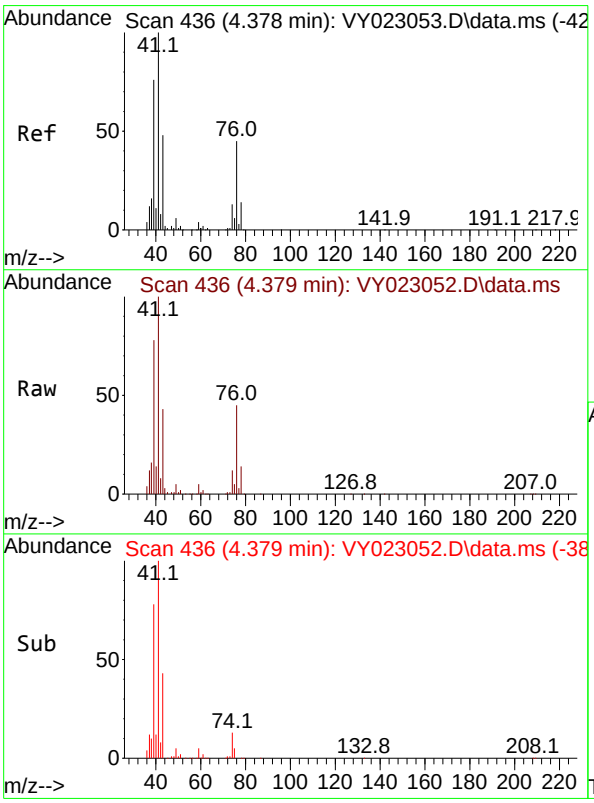
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.5 | 7.4 | 11.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

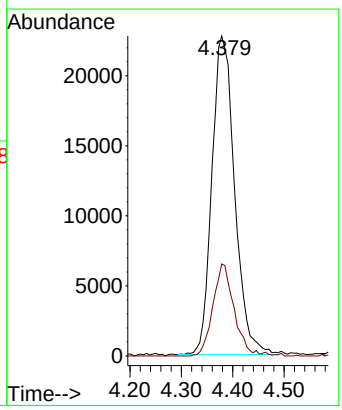
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

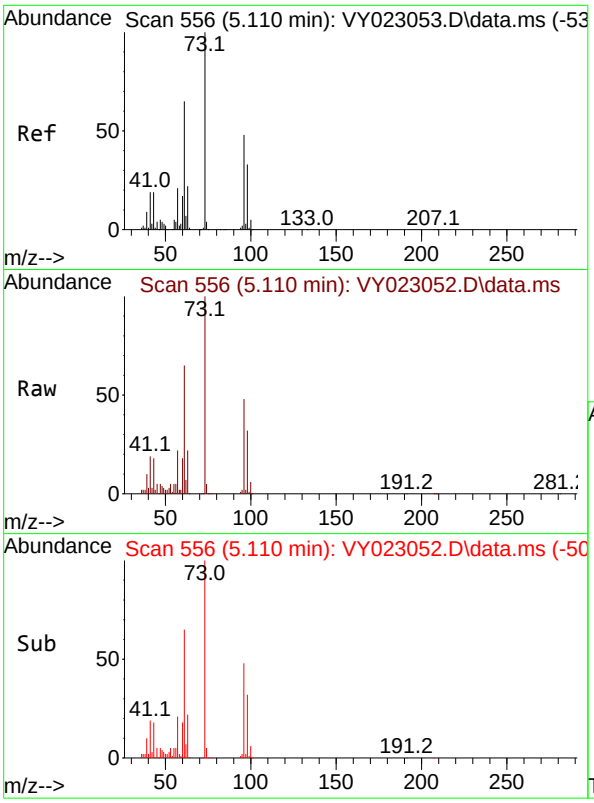



#18
Methyl Acetate
Concen: 21.141 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 43 Resp: 69853

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 27.0 | 21.2 | 31.8 |

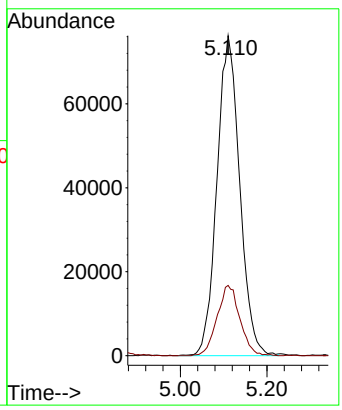





#19
Methyl tert-butyl Ether
Concen: 20.767 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 73 Resp: 27886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.9 | 17.1 | 25.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
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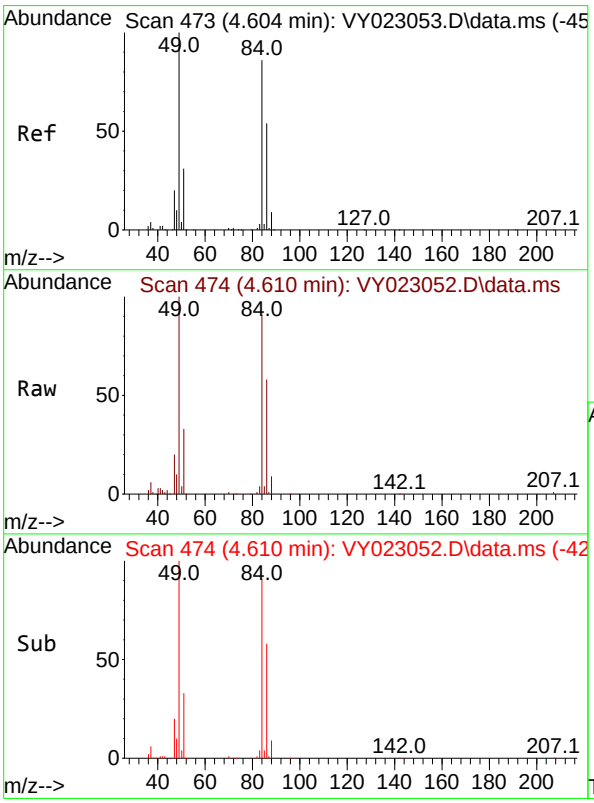
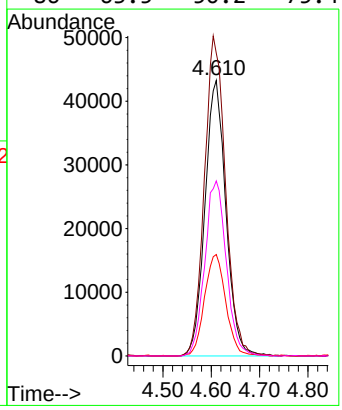
Supervised By :Semsettin Yesilyurt 08/14/2025

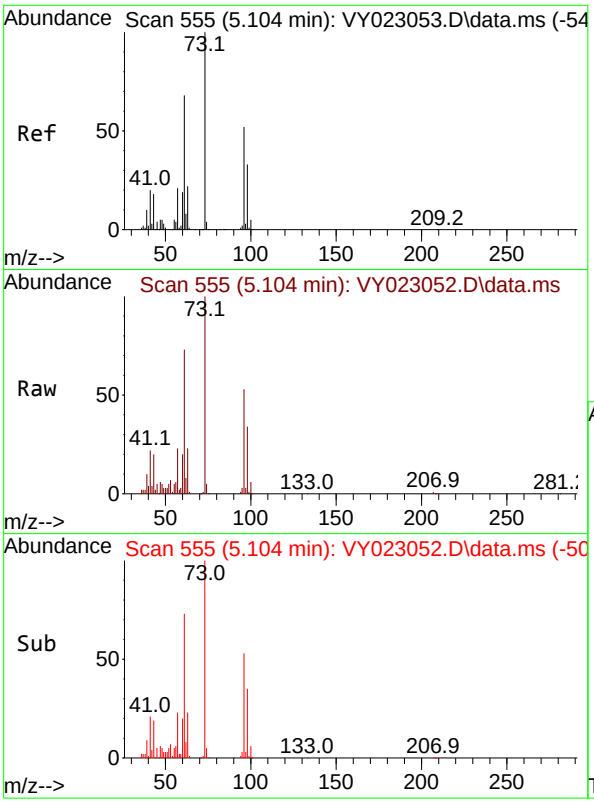



#20
Methylene Chloride
Concen: 21.069 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 84 Resp: 130416

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 109.9 | 93.0 | 139.6 |
| 51 | 36.8 | 29.0 | 43.4 |
| 86 | 63.5 | 50.2 | 75.4 |

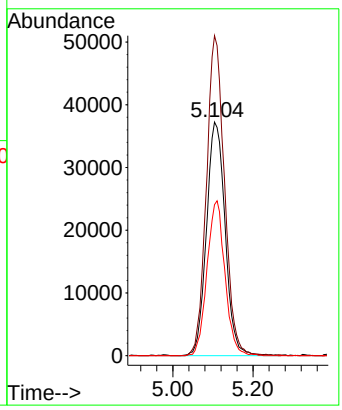





#21
trans-1,2-Dichloroethene
Concen: 20.661 ug/l
RT: 5.104 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 96 Resp: 12032

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 137.0 | 104.8 | 157.2 |
| 98 | 64.7 | 50.1 | 75.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

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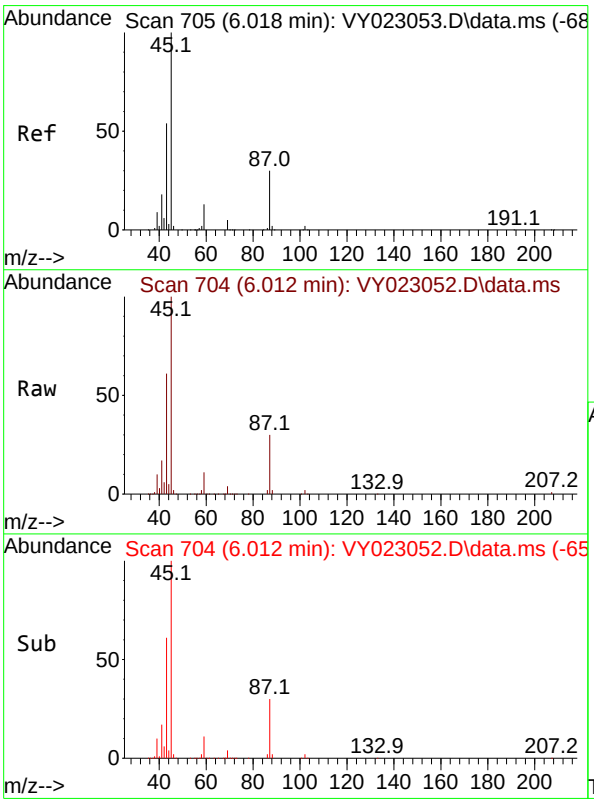
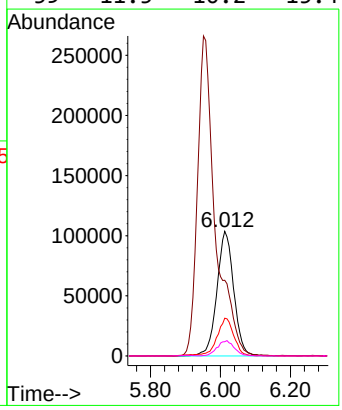
Supervised By :Semsettin Yesilyurt 08/14/2025

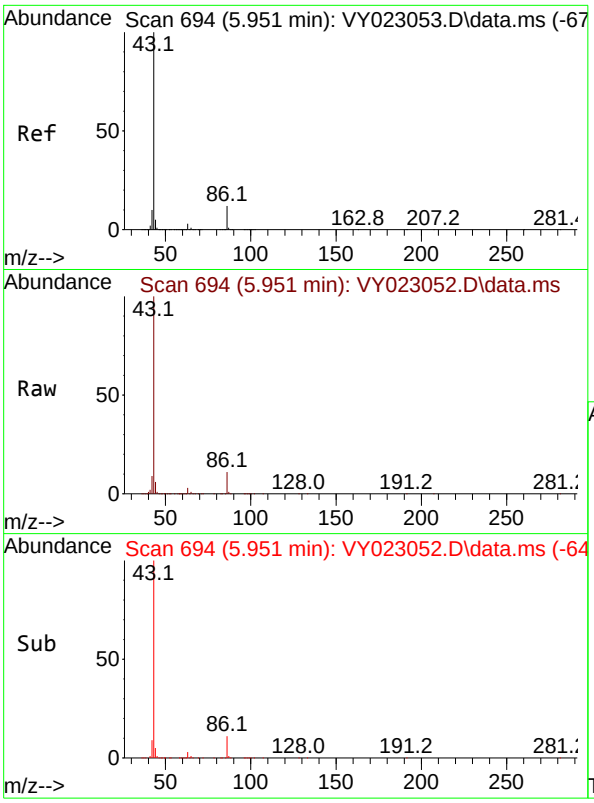



#22
Diisopropyl ether
Concen: 20.894 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 45 Resp: 346195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 60.5 | 43.4 | 65.0 |
| 87 | 30.3 | 24.4 | 36.6 |
| 59 | 11.5 | 10.2 | 15.4 |






#23
Vinyl Acetate
Concen: 102.748 ug/l
RT: 5.951 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 43 Resp: 94136

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.0 | 9.6 | 14.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

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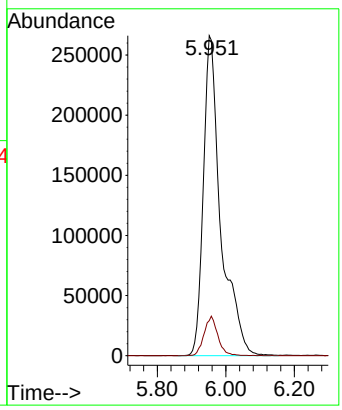
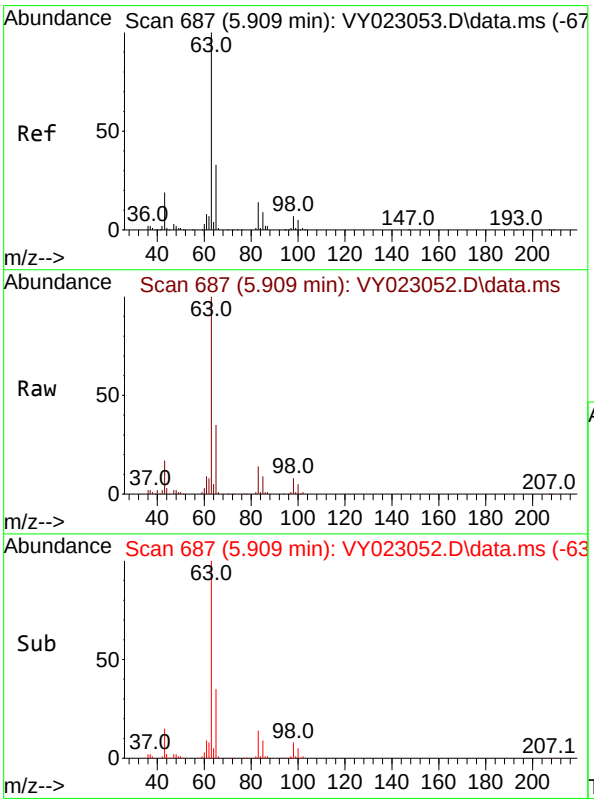
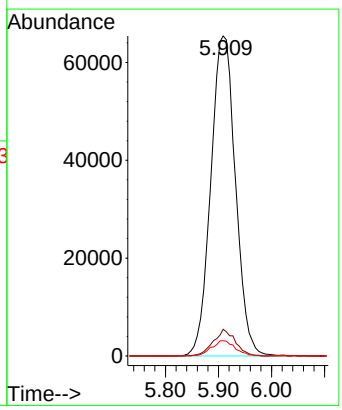


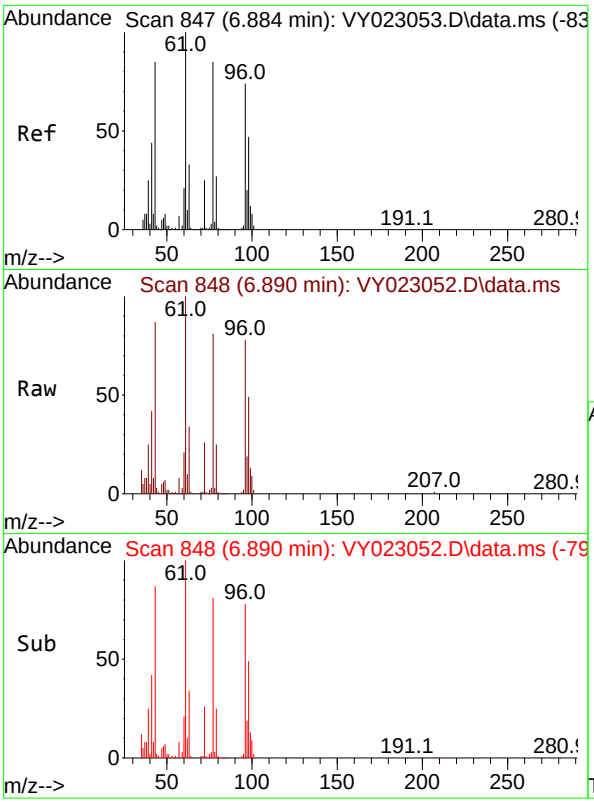




#24
1,1-Dichloroethane
Concen: 20.884 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 63 Resp: 211558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 8.4 | 3.5 | 10.6 |
| 100 | 4.8 | 2.4 | 7.1 |

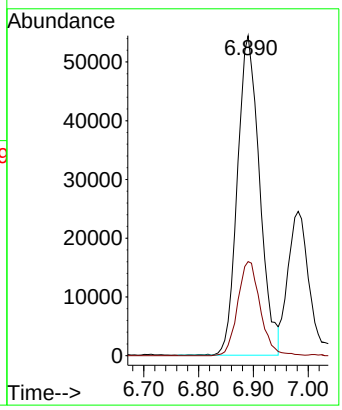





#25
2-Butanone
Concen: 101.559 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 43 Resp: 15336

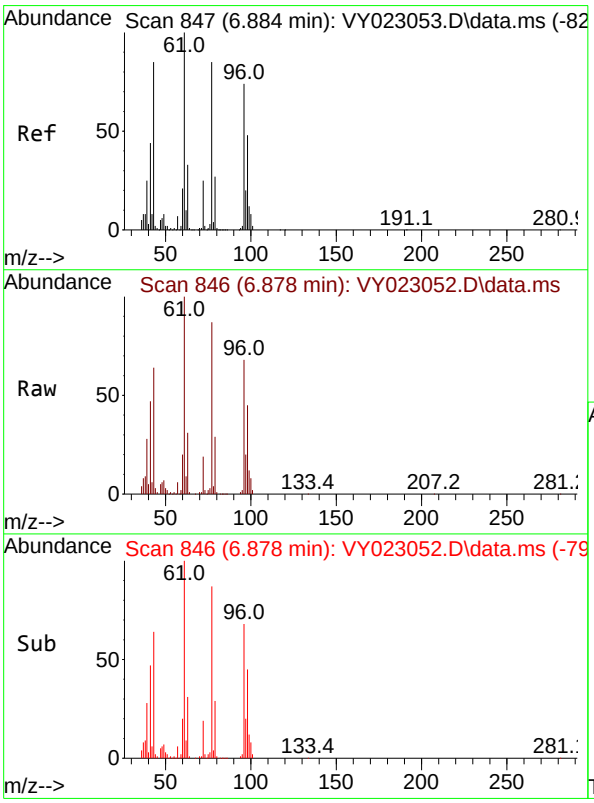
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 29.5 | 23.5 | 35.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

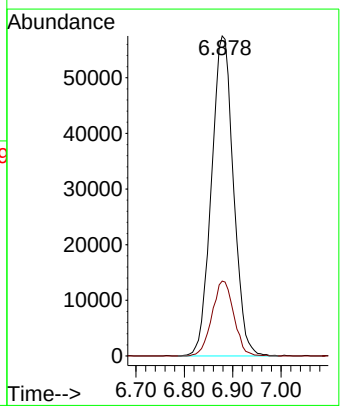
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

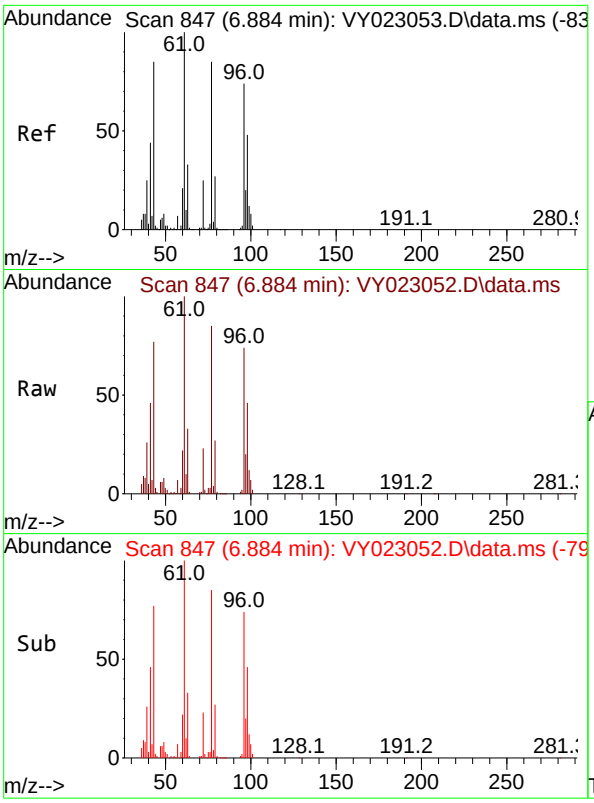



#26
2,2-Dichloropropane
Concen: 20.767 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 77 Resp: 181528

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.2 | 11.6 | 34.8 |






#27
cis-1,2-Dichloroethene
Concen: 20.613 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 96 Resp: 13877

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 138.7 | 0.0 | 278.6 |
| 98 | 63.4 | 0.0 | 130.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
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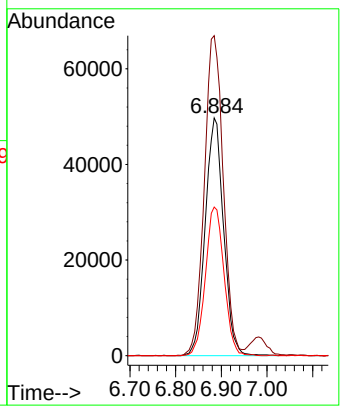
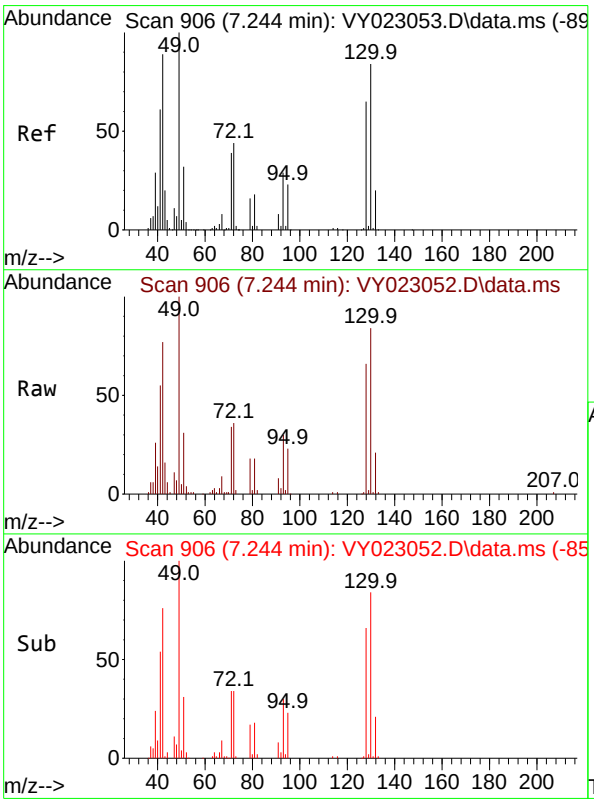
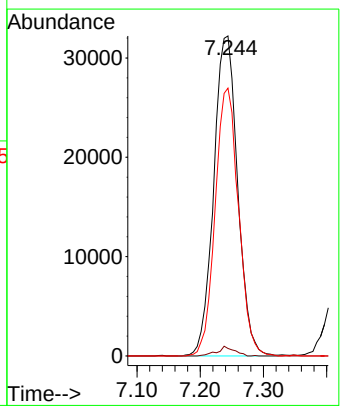


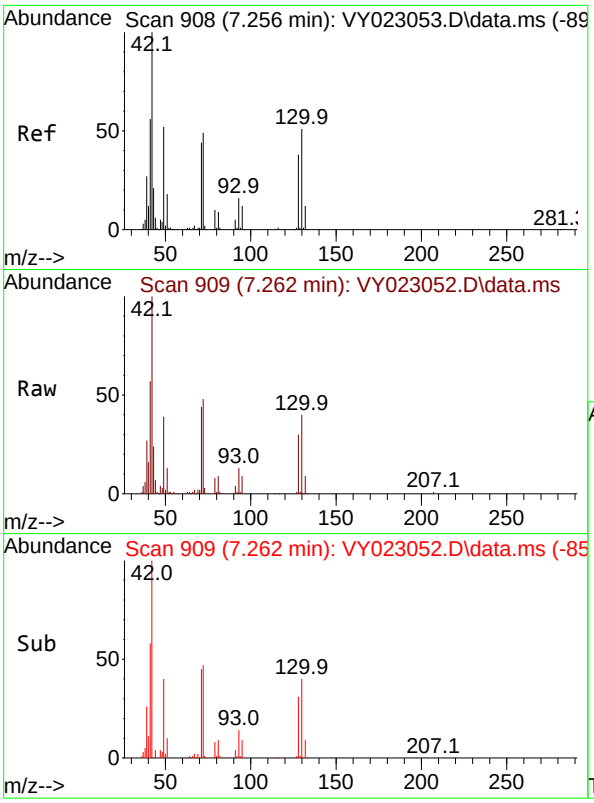




#28
Bromochloromethane
Concen: 21.035 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 49 Resp: 84540

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.2 | 0.0 | 4.2 |
| 130 | 81.7 | 66.4 | 99.6 |

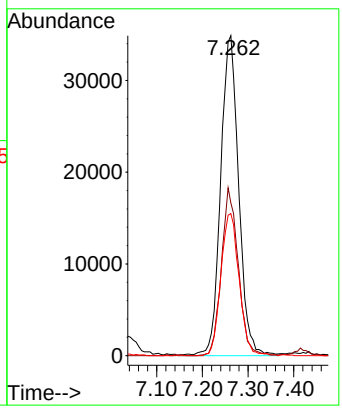





#29
Tetrahydrofuran
Concen: 102.341 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 42 Resp: 9579

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 48.8 | 39.4 | 59.2 |
| 71 | 44.8 | 36.5 | 54.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

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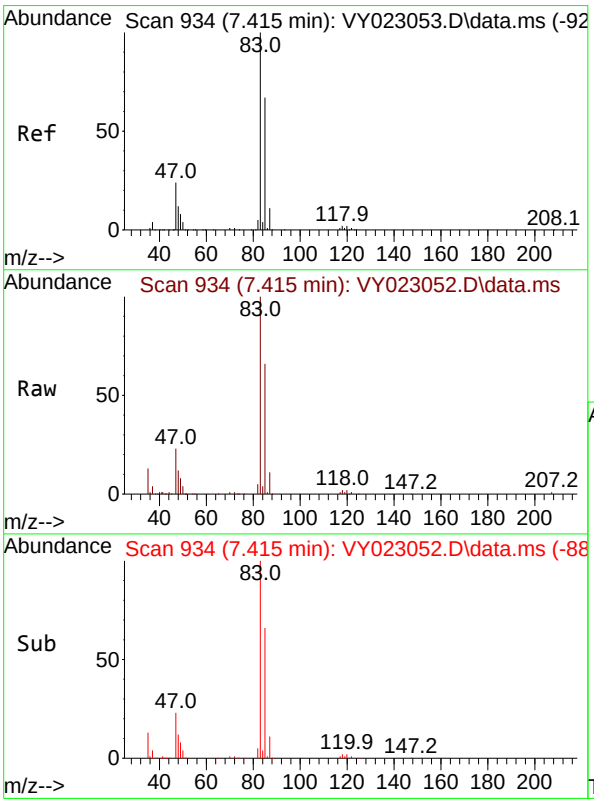
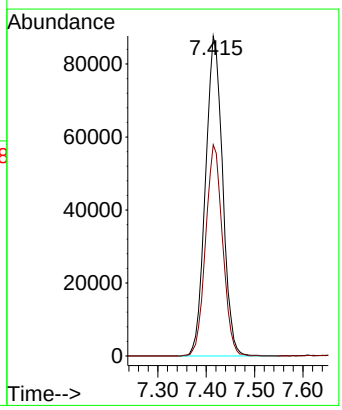
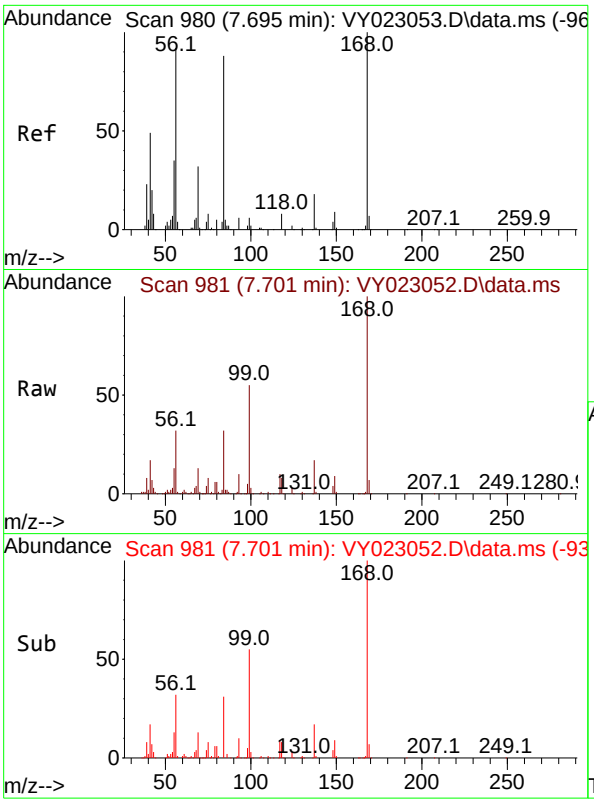



#30
Chloroform
Concen: 20.635 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 83 Resp: 215585

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 66.0 | 53.8 | 80.8 |

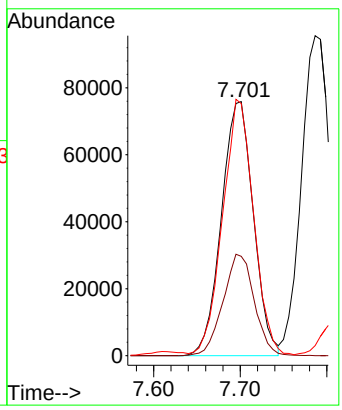





#31
Cyclohexane
Concen: 20.393 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 56 Resp: 19467

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 39.1 | 28.2 | 42.2 |
| 84 | 98.0 | 76.6 | 114.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

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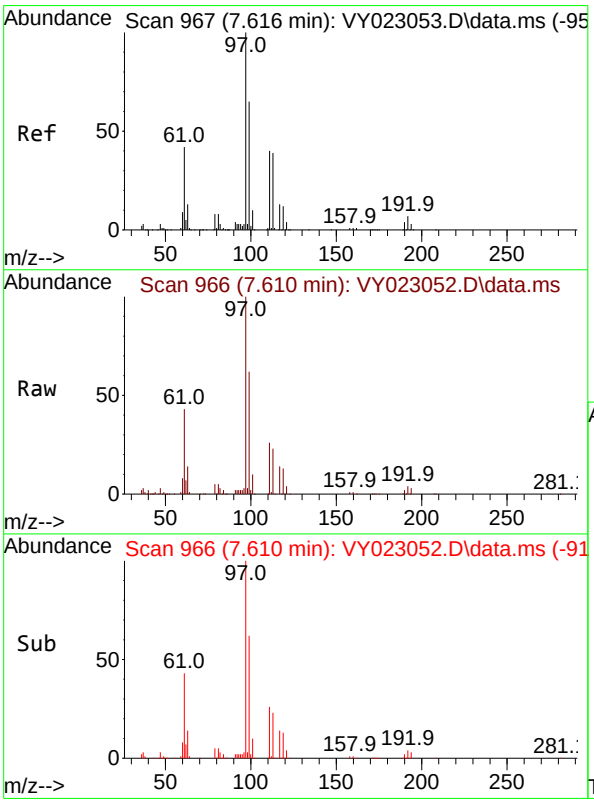
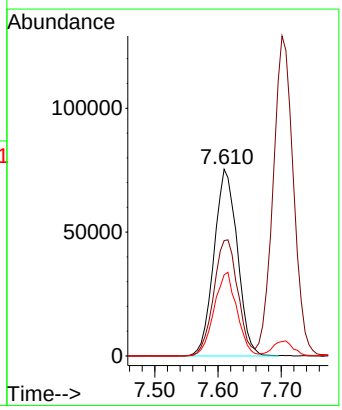
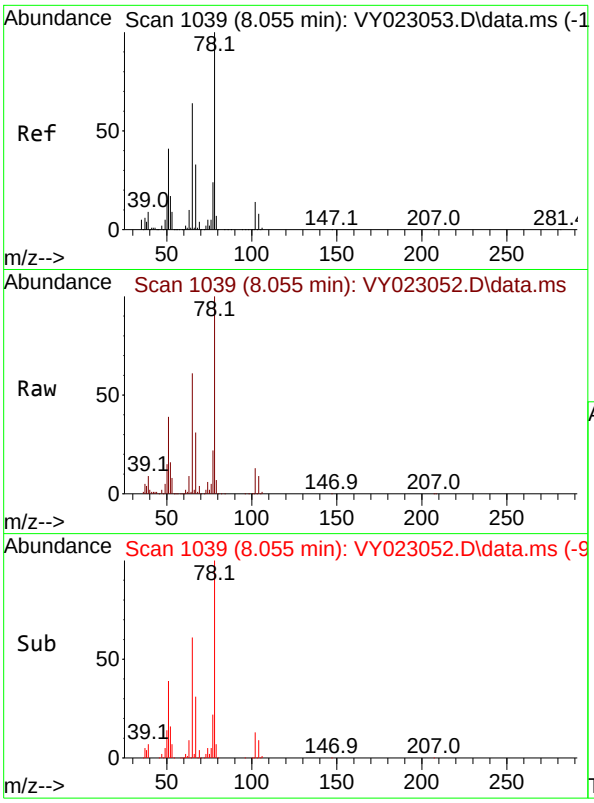



#32
1,1,1-Trichloroethane
Concen: 20.848 ug/l
RT: 7.610 min Scan# 966
Delta R.T. -0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 97 Resp: 193268

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.1 | 51.6 | 77.4 |
| 61 | 43.9 | 34.2 | 51.2 |

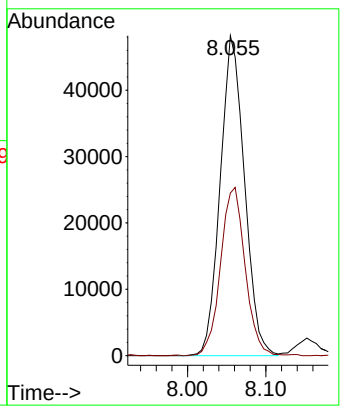





#33
1,2-Dichloroethane-d4
Concen: 20.244 ug/l
RT: 8.055 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 65 Resp: 10375

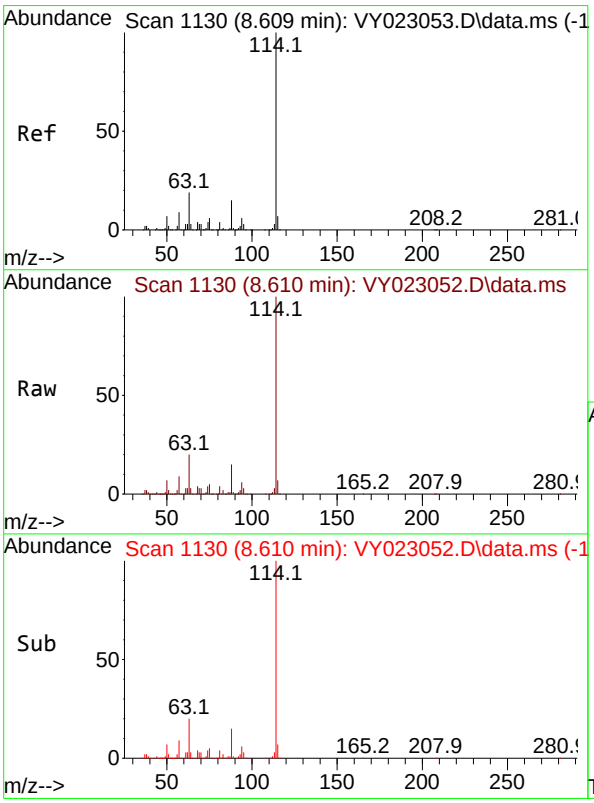
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.4 | 0.0 | 106.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

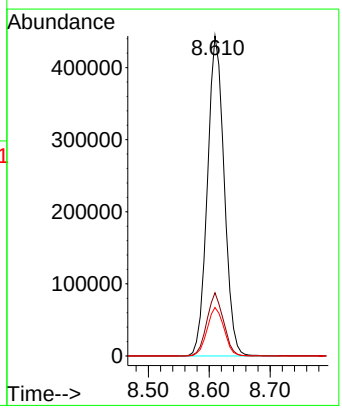
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

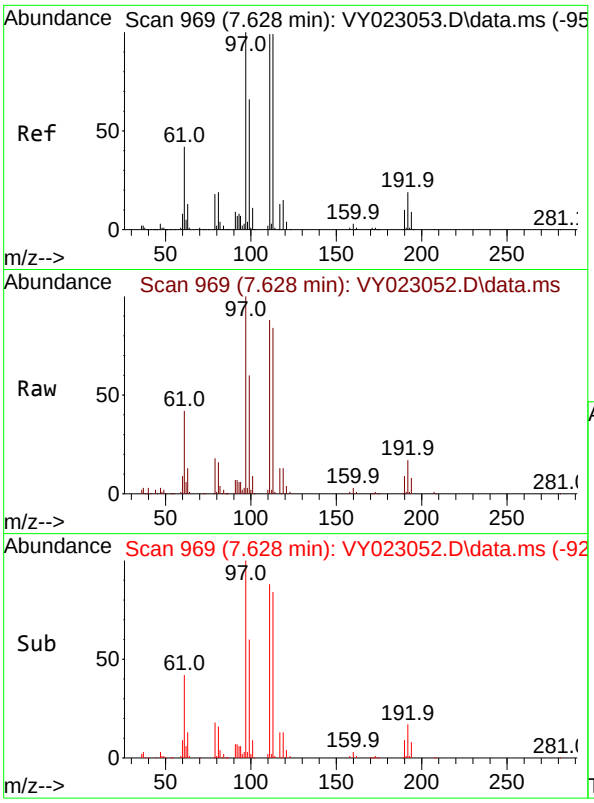



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:114 Resp: 848953

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.8 | 0.0 | 38.4 |
| 88 | 15.2 | 0.0 | 30.0 |

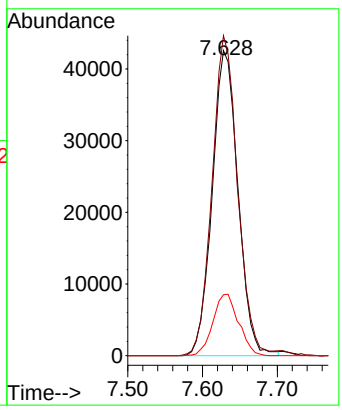





#35
Dibromofluoromethane
Concen: 20.093 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:113 Resp: 10206

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.9 | 81.1 | 121.7 |
| 192 | 20.1 | 16.2 | 24.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

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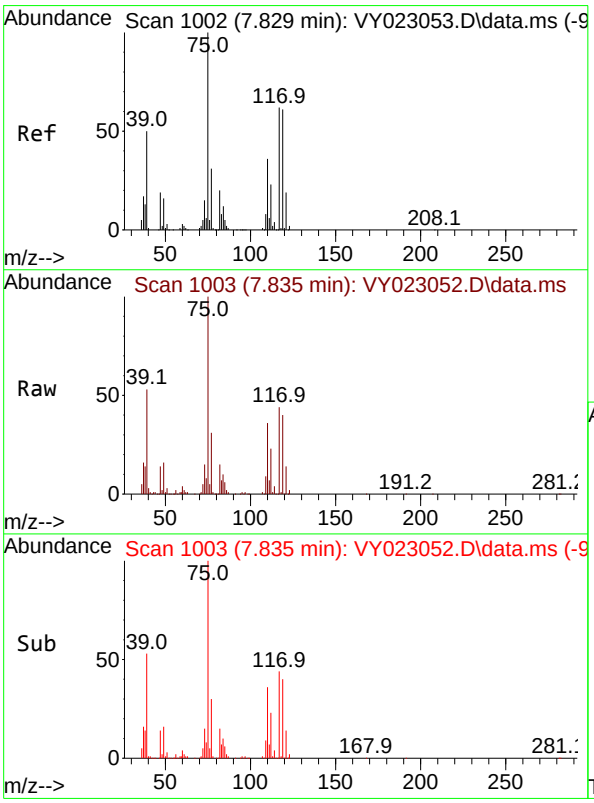
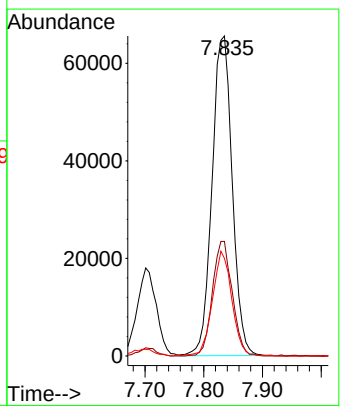
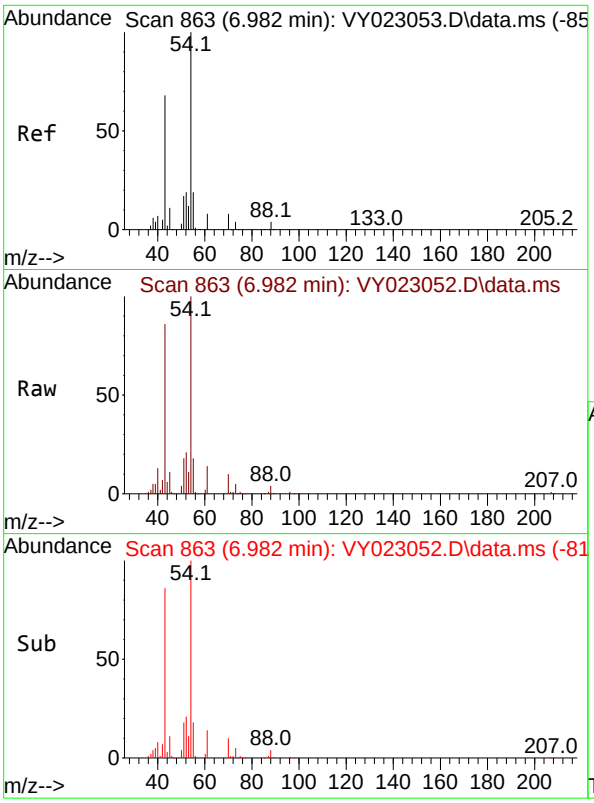



#36
1,1-Dichloropropene
Concen: 20.746 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 75 Resp: 156617

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.1 | 18.1 | 54.4 |
| 77 | 31.6 | 24.6 | 37.0 |






#37
Ethyl Acetate
Concen: 20.944 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 43 Resp: 6642

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.8 | 11.9 | 17.9 |
| 70 | 11.0 | 8.8 | 13.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
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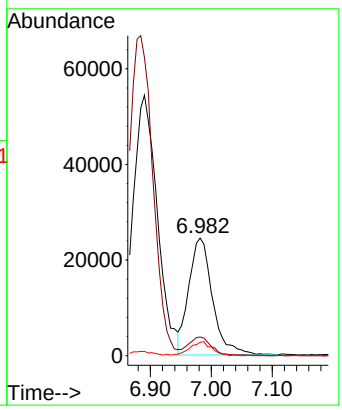
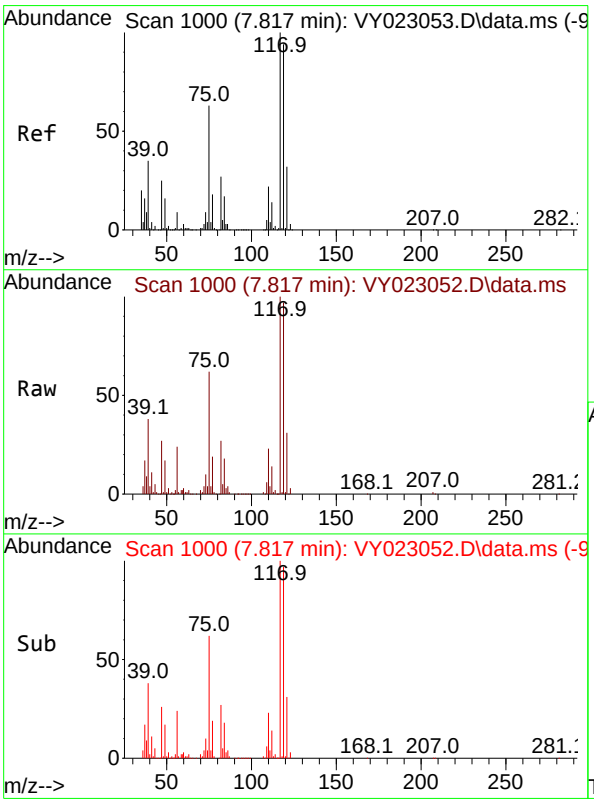
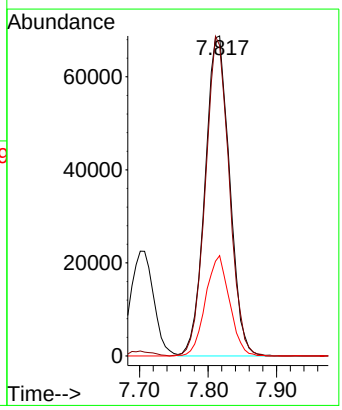


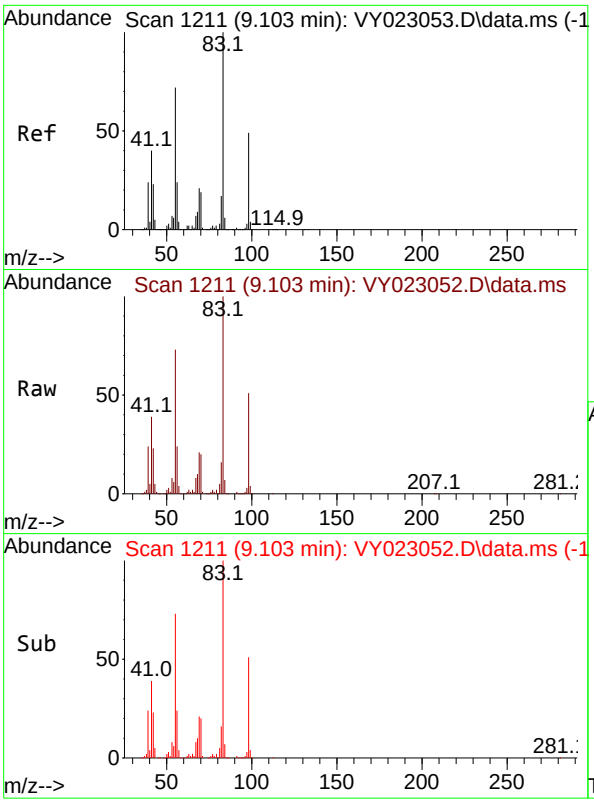




#38
Carbon Tetrachloride
Concen: 20.897 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:117 Resp: 171344

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 97.0 | 75.6 | 113.4 |
| 121 | 31.3 | 25.8 | 38.8 |






#39
Methylcyclohexane
Concen: 20.680 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 83 Resp: 20559

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 72.8 | 57.6 | 86.4 |
| 98 | 50.7 | 39.2 | 58.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

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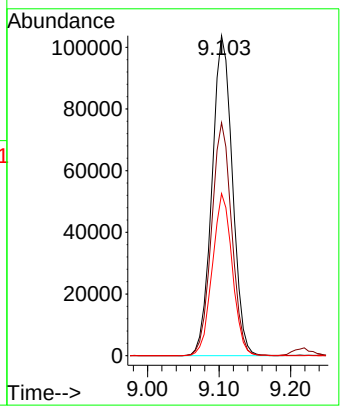
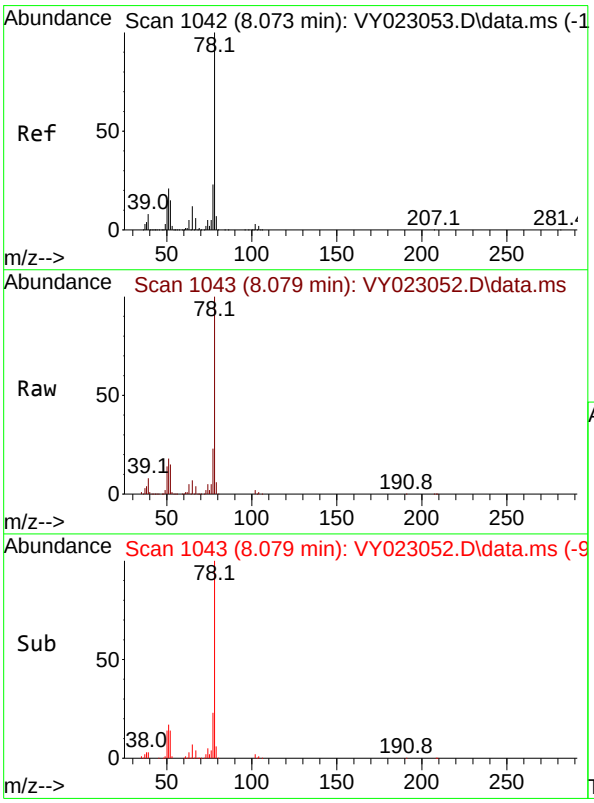
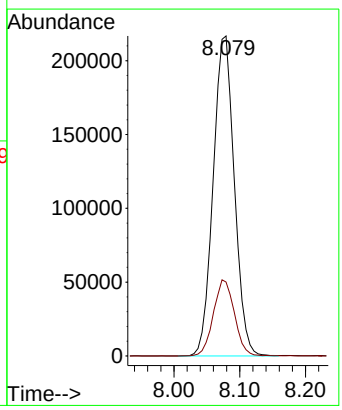


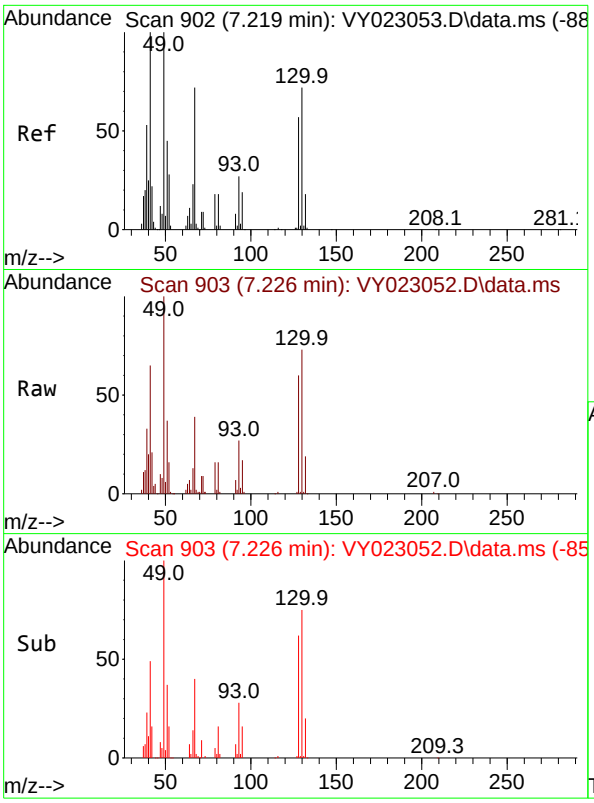




#40
Benzene
Concen: 20.871 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 78 Resp: 485631

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.1 | 18.6 | 28.0 |

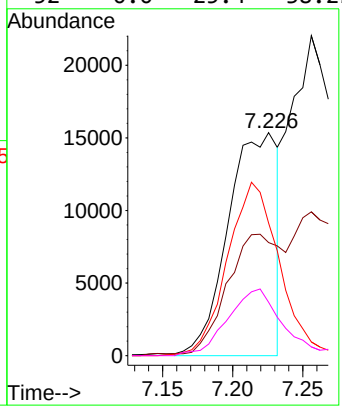





#41
Methacrylonitrile
Concen: 20.623 ug/l m
RT: 7.226 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 41 Resp: 3778

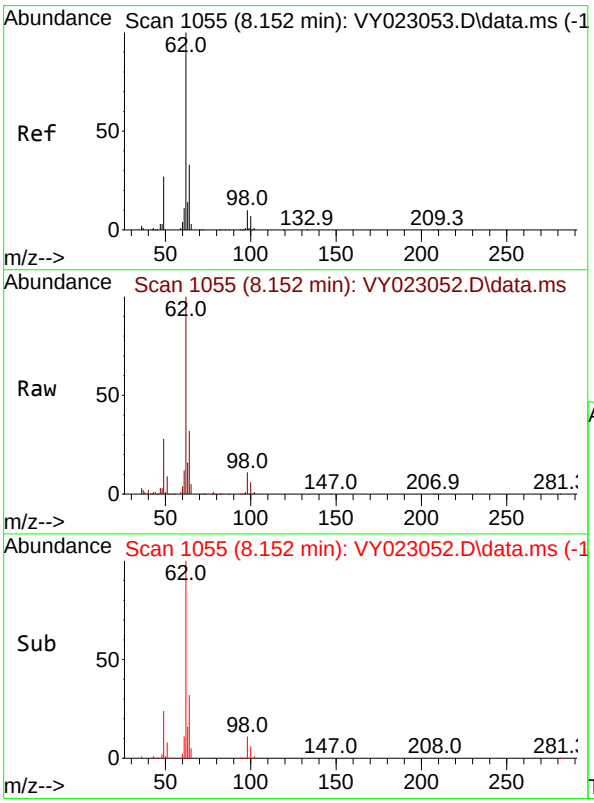
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 62.3 | 43.4 | 65.2 |
| 67 | 0.0 | 63.6 | 95.4# |
| 52 | 0.0 | 25.4 | 38.2# |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

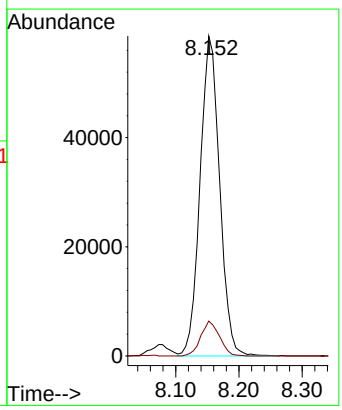
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

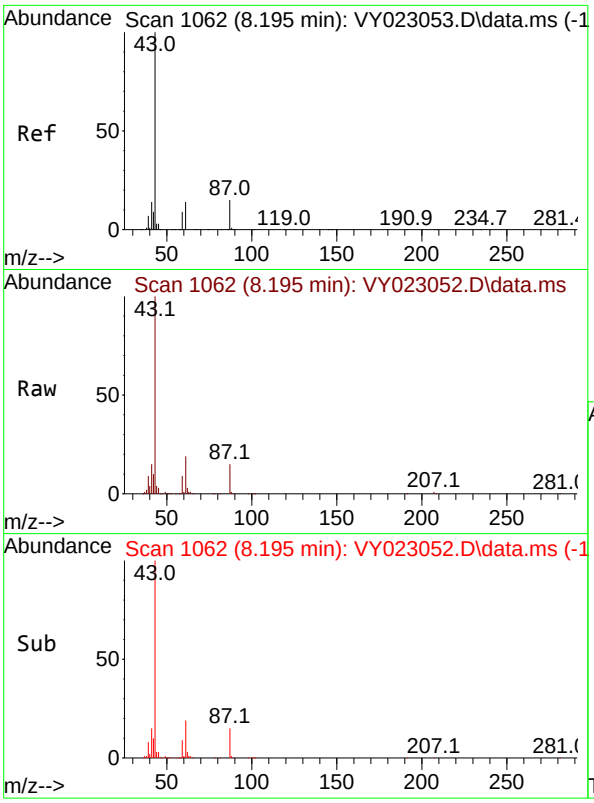



#42
1,2-Dichloroethane
Concen: 20.839 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 62 Resp: 126111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.4 | 0.0 | 20.6 |

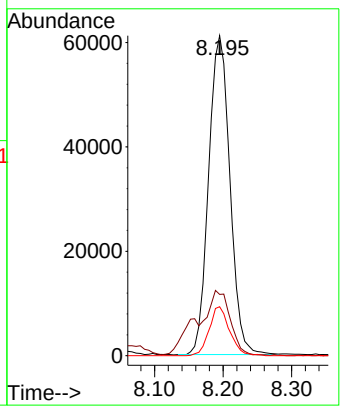





#43
Isopropyl Acetate
Concen: 20.571 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 43 Resp: 13185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 22.2 | 16.4 | 24.6 |
| 87 | 14.7 | 11.8 | 17.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

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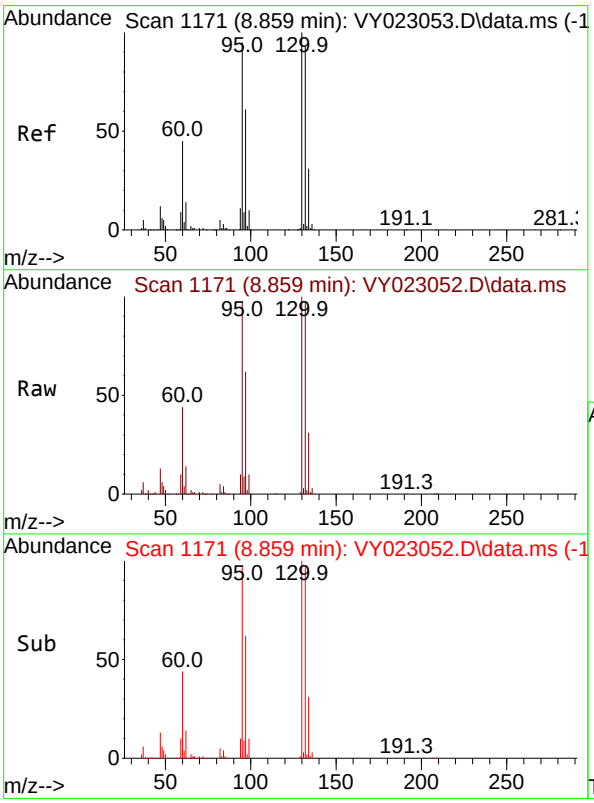
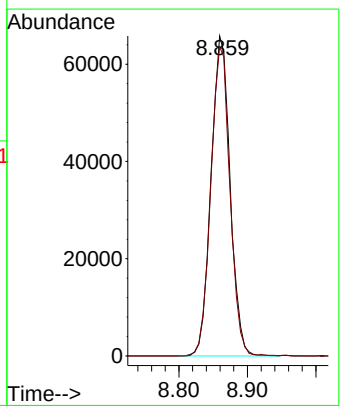
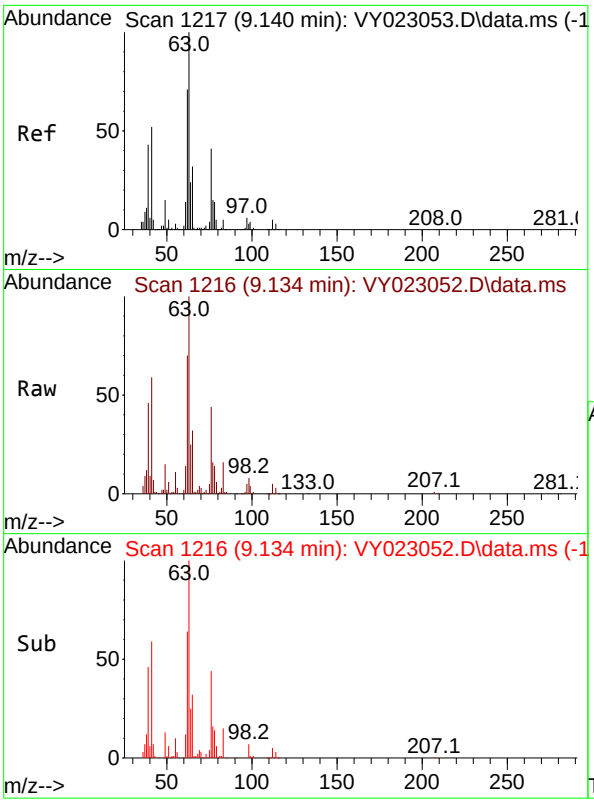



#44
Trichloroethene
Concen: 21.083 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:130 Resp: 126772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 96.6 | 0.0 | 190.2 |






#45
1,2-Dichloropropane
Concen: 20.677 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 63 Resp: 11069

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 32.2 | 25.3 | 37.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

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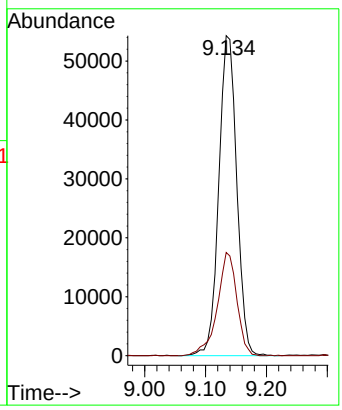
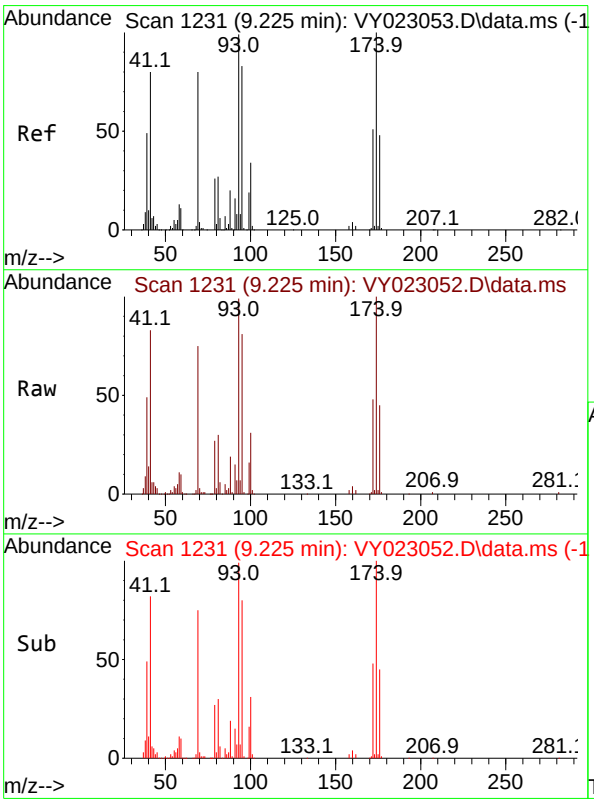
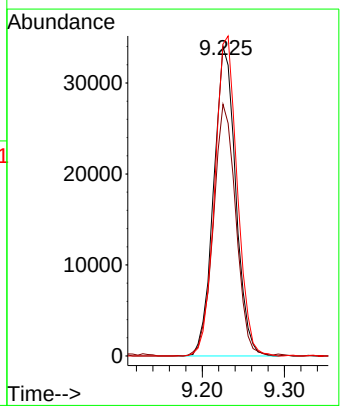


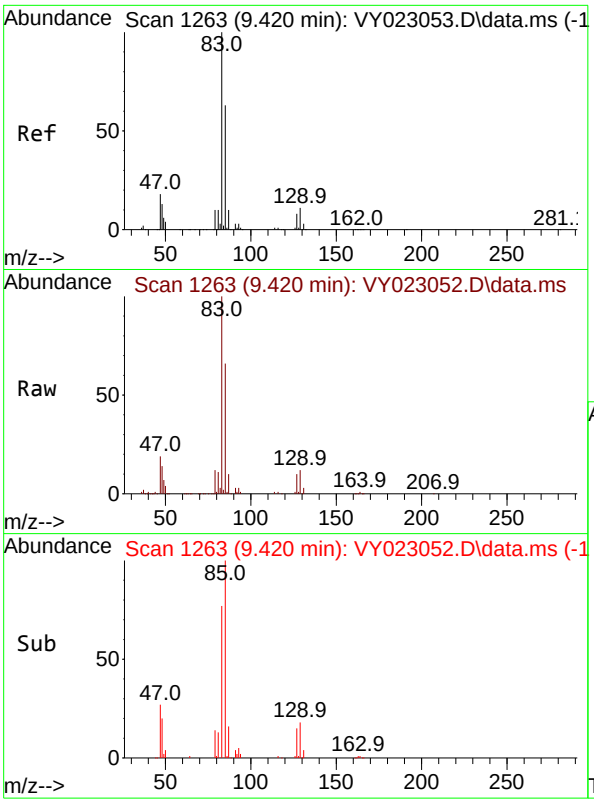




#46
Dibromomethane
Concen: 20.635 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 93 Resp: 63410

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.8 | 66.5 | 99.7 |
| 174 | 105.0 | 81.8 | 122.8 |

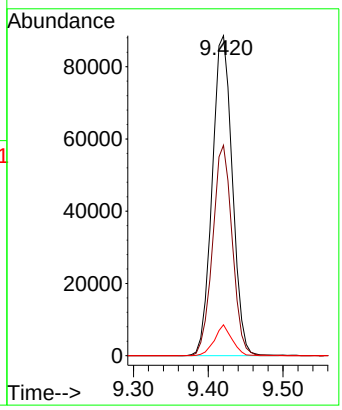





#47
Bromodichloromethane
Concen: 20.988 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 83 Resp: 16595

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.8 | 50.2 | 75.4 |
| 127 | 9.6 | 6.6 | 10.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

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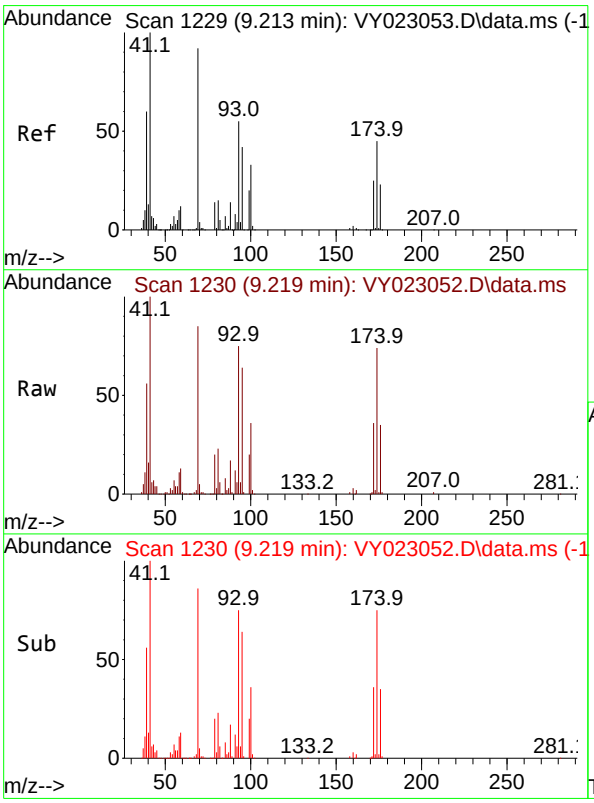
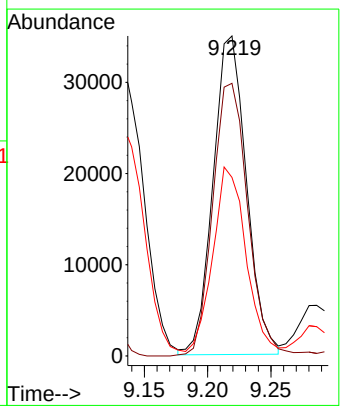
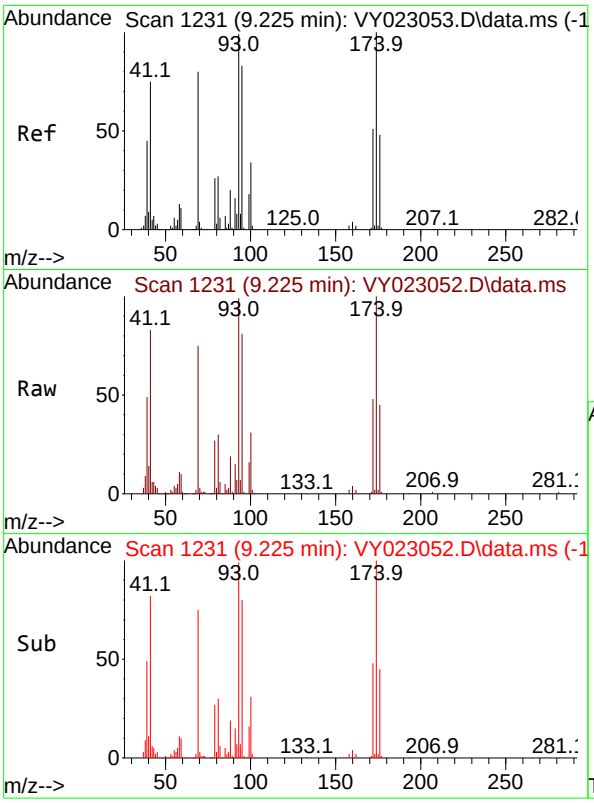



#48
Methyl methacrylate
Concen: 20.905 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 41 Resp: 64120

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 89.9 | 73.2 | 109.8 |
| 39 | 57.0 | 47.0 | 70.4 |






#49
1,4-Dioxane
Concen: 411.480 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 88 Resp: 1482

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 29.7 | 24.3 | 36.5 |
| 58 | 71.4 | 55.4 | 83.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

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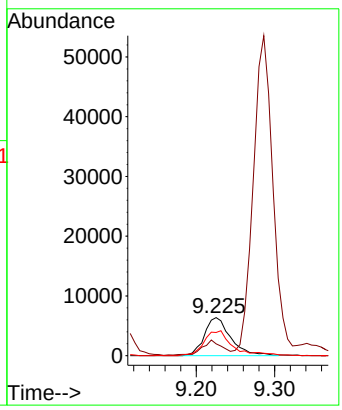
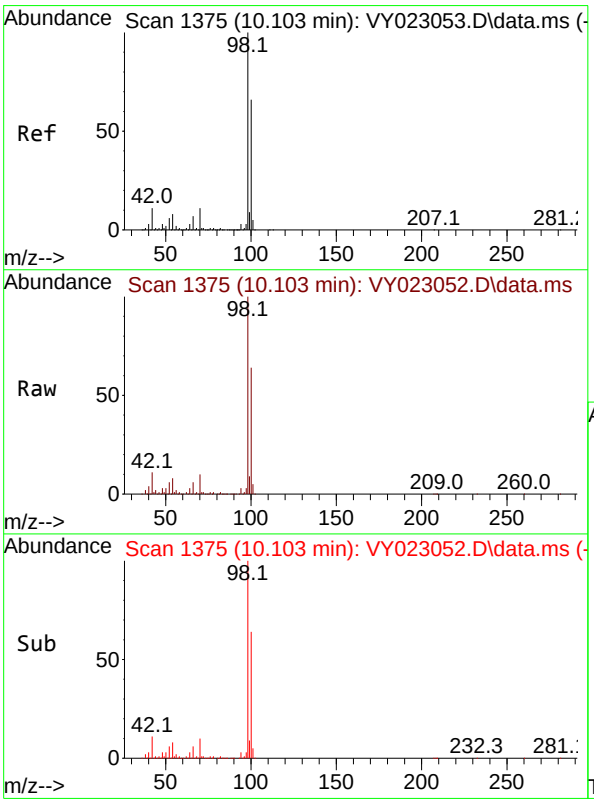
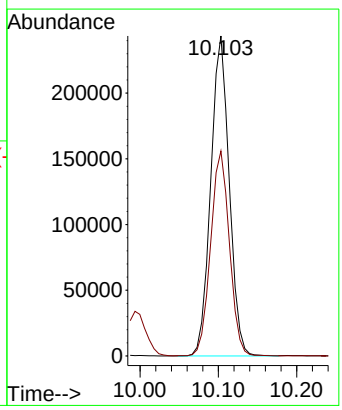


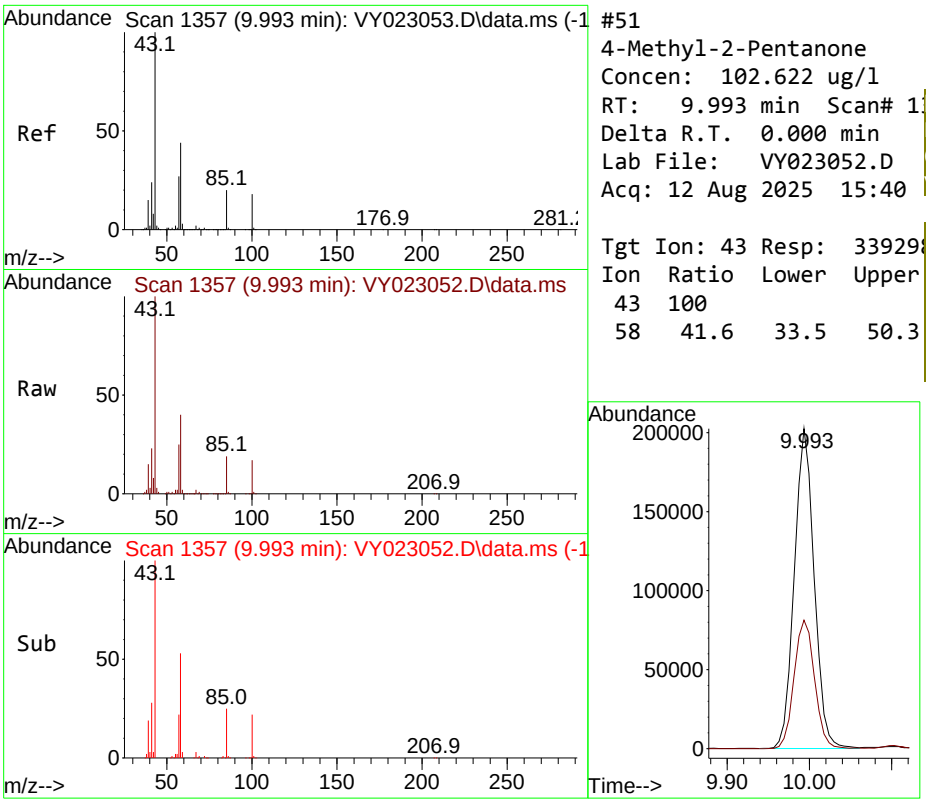




#50
Toluene-d8
Concen: 20.075 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 98 Resp: 398394

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.0 | 52.3 | 78.5 |






#51
4-Methyl-2-Pentanone
Concen: 102.622 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 43 Resp: 33929

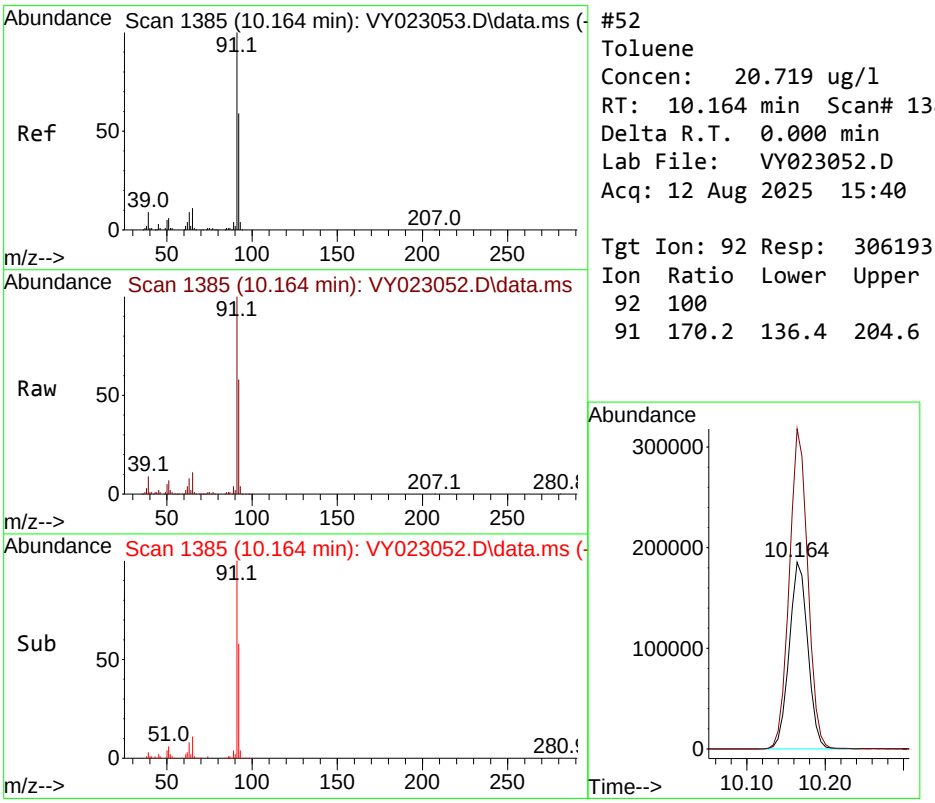
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 41.6 | 33.5 | 50.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

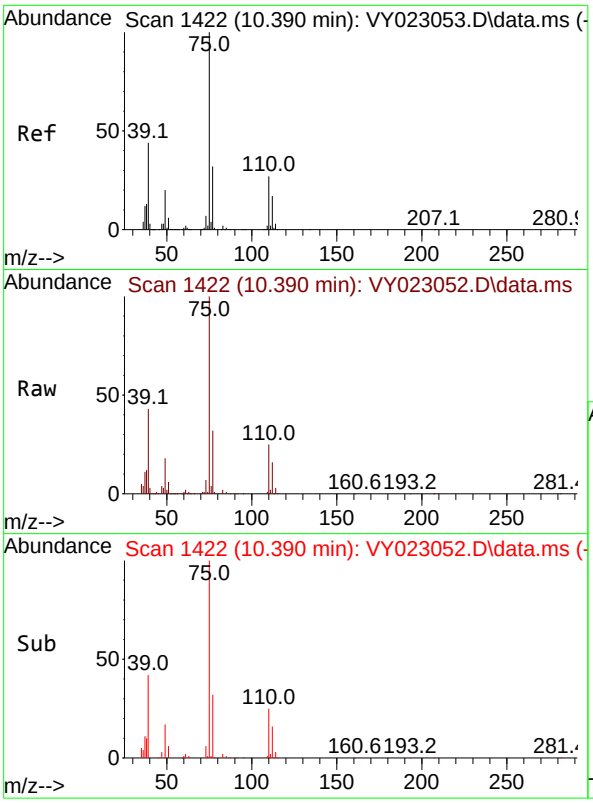
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025




#52
Toluene
Concen: 20.719 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 92 Resp: 306193

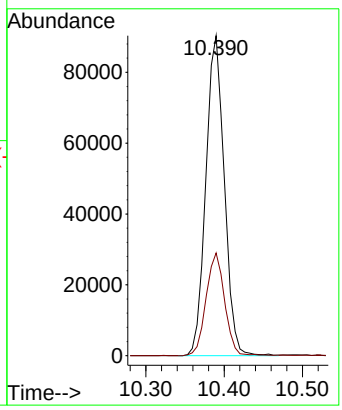
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 170.2 | 136.4 | 204.6 |




#53
t-1,3-Dichloropropene
Concen: 20.627 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 75 Resp: 14769

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.1 | 25.7 | 38.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

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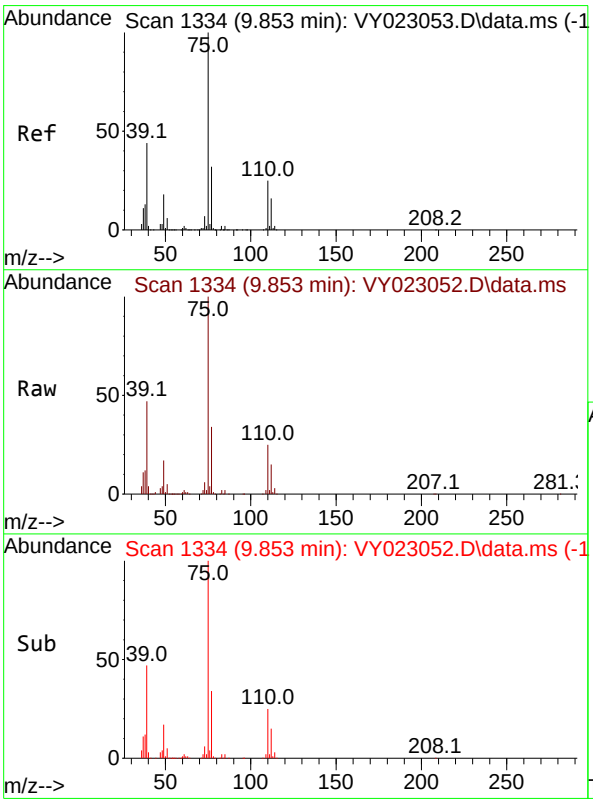
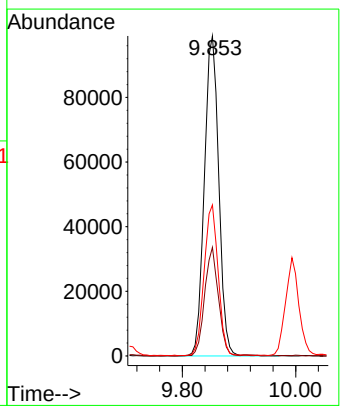
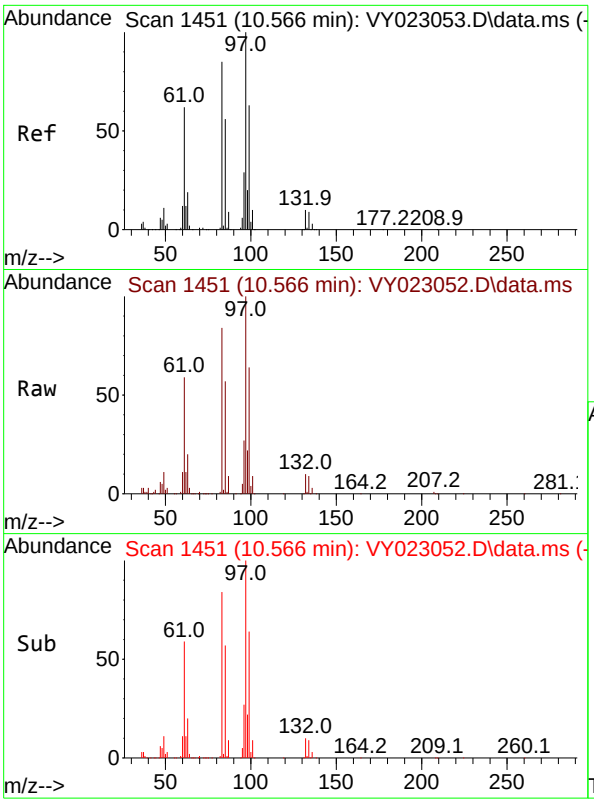



#54
cis-1,3-Dichloropropene
Concen: 20.580 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 75 Resp: 174243

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 33.9 | 25.4 | 38.0 |
| 39 | 47.1 | 35.6 | 53.4 |

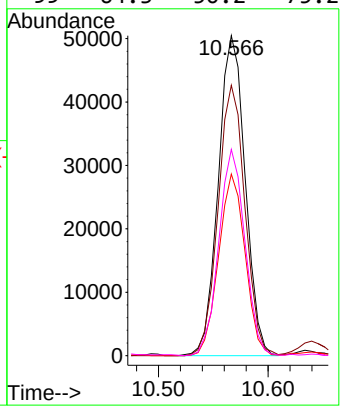





#55
1,1,2-Trichloroethane
Concen: 20.920 ug/l
RT: 10.566 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 97 Resp: 8602

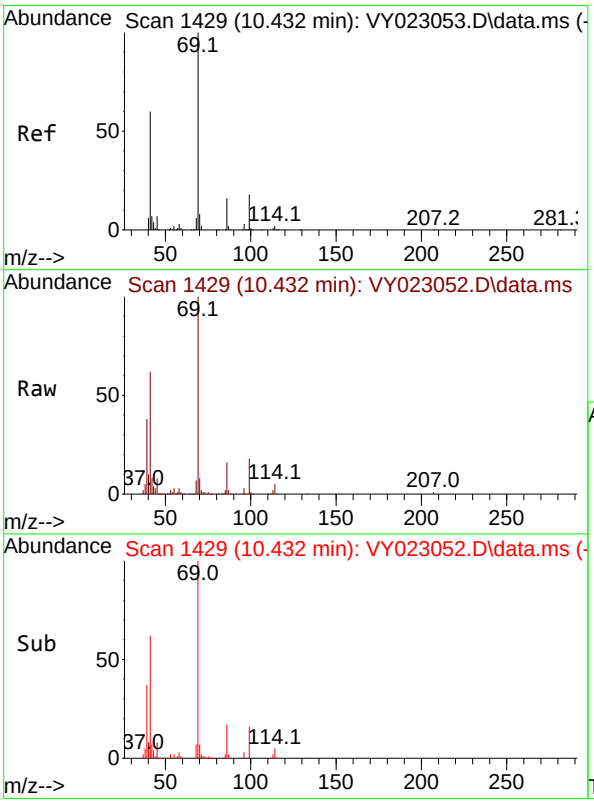
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 84.5 | 67.7 | 101.5 |
| 85 | 56.7 | 44.5 | 66.7 |
| 99 | 64.3 | 50.2 | 75.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

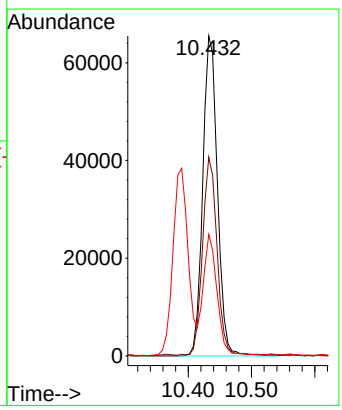
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

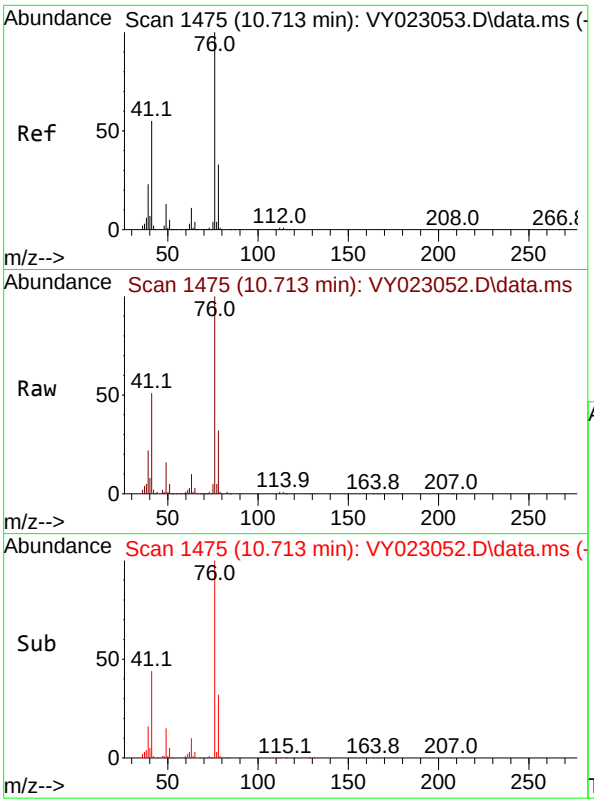



#56
Ethyl methacrylate
Concen: 20.111 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 69 Resp: 105816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 61.2 | 48.6 | 72.8 |
| 39 | 34.7 | 27.0 | 40.4 |

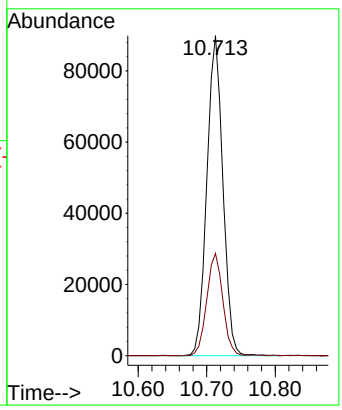





#57
1,3-Dichloropropane
Concen: 20.882 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 76 Resp: 14562

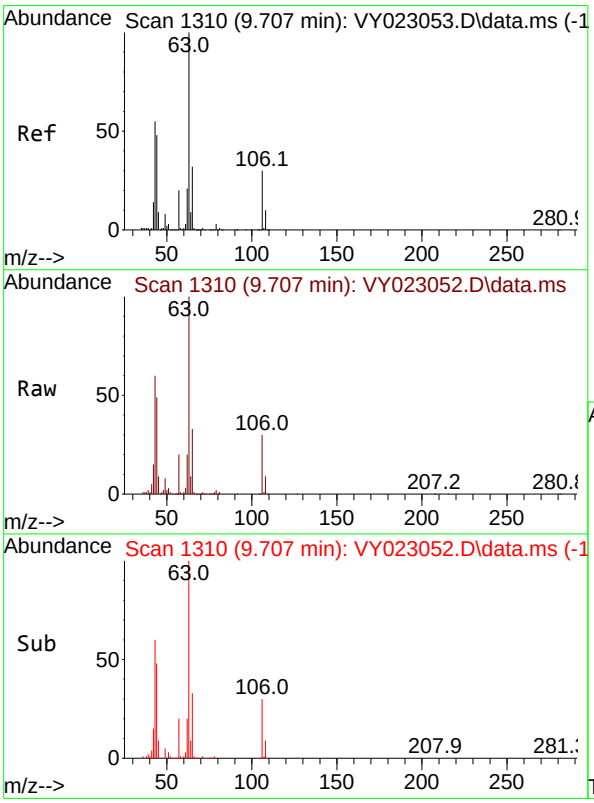
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.1 | 26.0 | 39.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

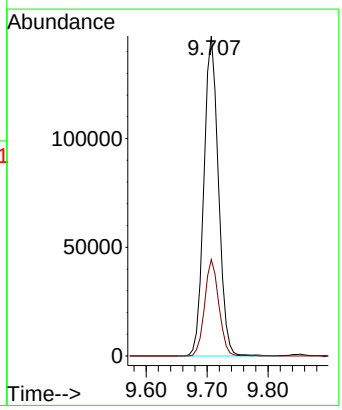
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

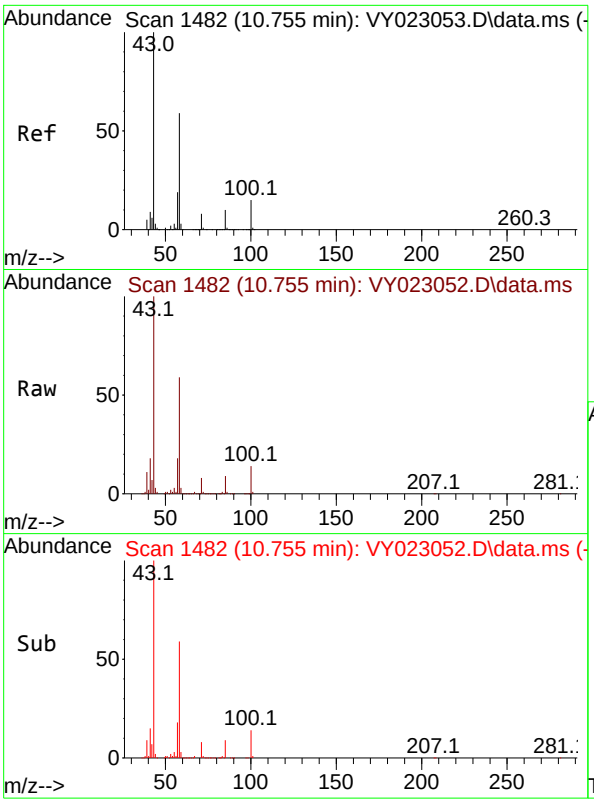



#58
2-Chloroethyl Vinyl ether
Concen: 98.450 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 63 Resp: 244340

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 29.3 | 23.2 | 34.8 |






#59
2-Hexanone
Concen: 102.992 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 43 Resp: 23187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 58.1 | 29.5 | 88.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
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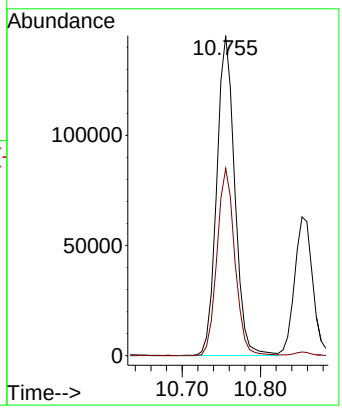
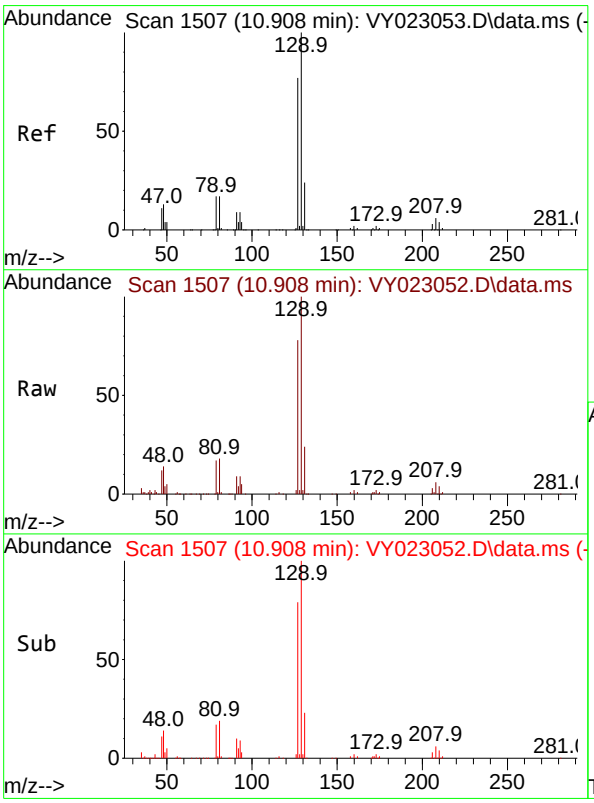
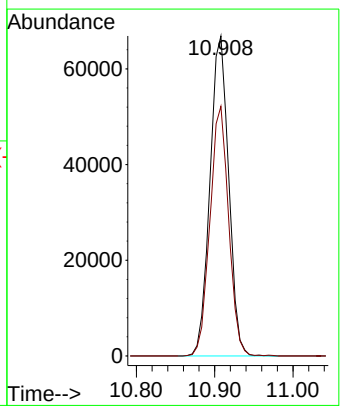


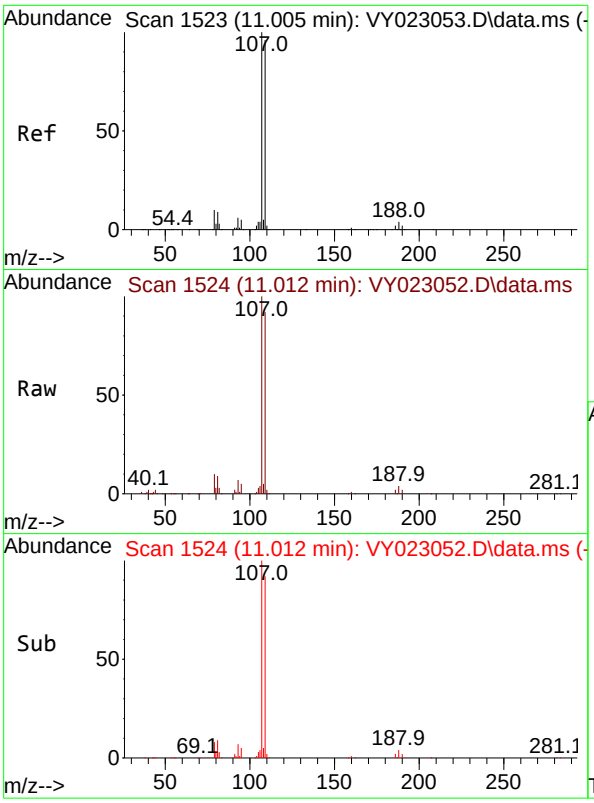




#60
Dibromochloromethane
Concen: 20.424 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:129 Resp: 110810

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.0 | 38.5 | 115.5 |

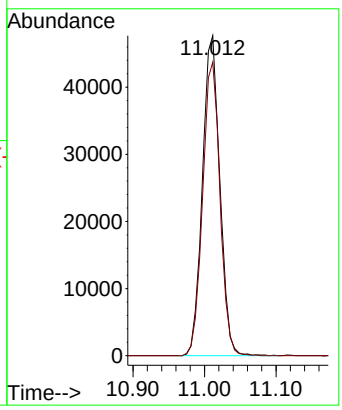





#61
1,2-Dibromoethane
Concen: 20.842 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:107 Resp: 8054

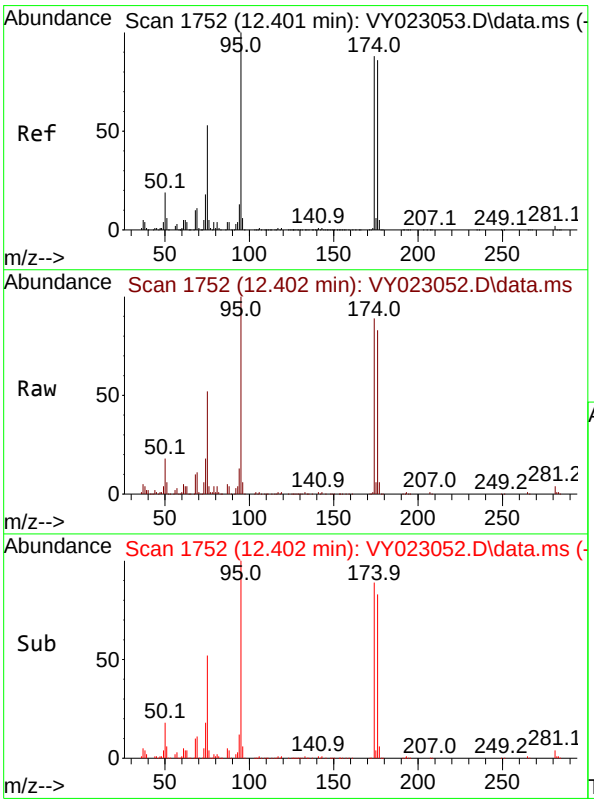
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 91.5 | 75.6 | 113.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

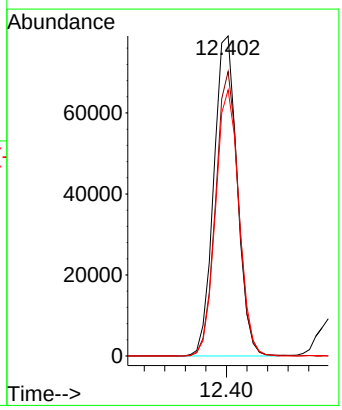
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

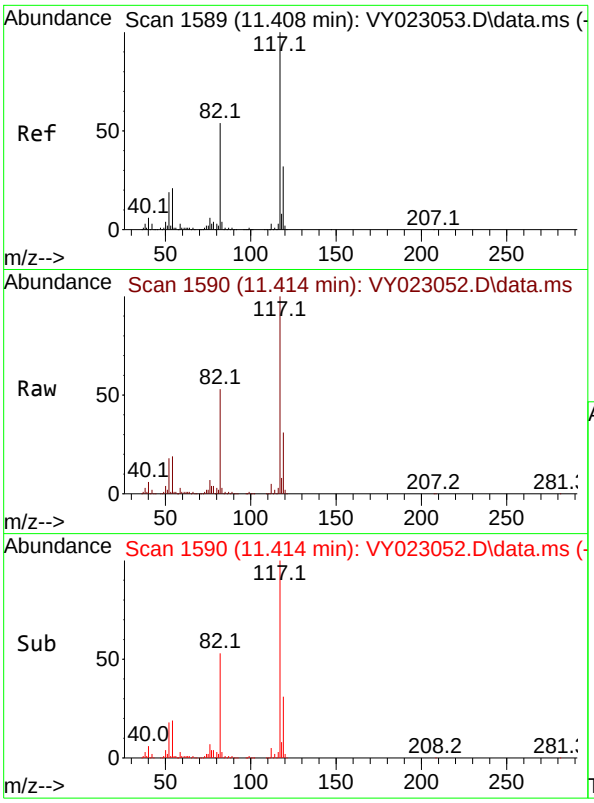



#62
4-Bromofluorobenzene
Concen: 19.503 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 95 Resp: 124467

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 86.7 | 0.0 | 171.6 |
| 176 | 83.3 | 0.0 | 167.6 |

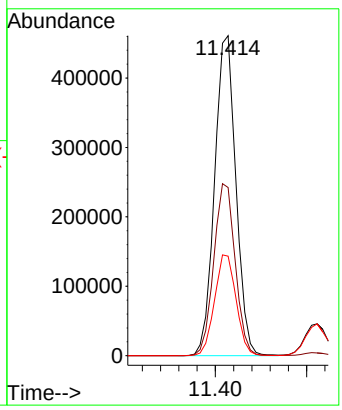





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:117 Resp: 74548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 52.5 | 43.4 | 65.0 |
| 119 | 31.1 | 25.6 | 38.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

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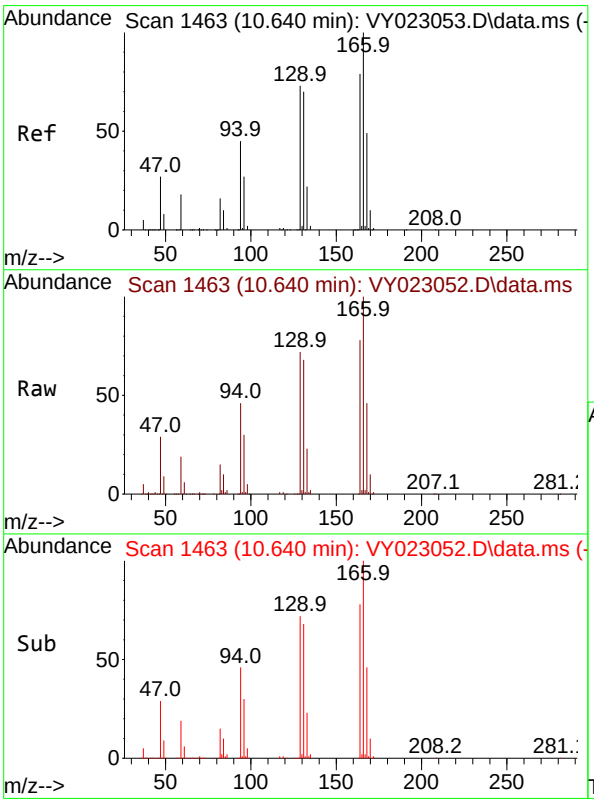
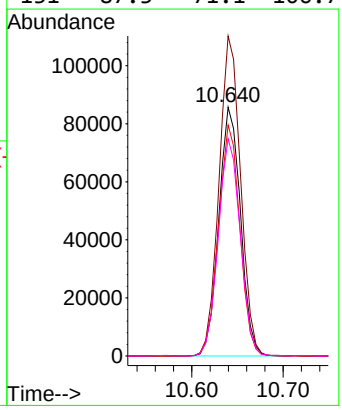
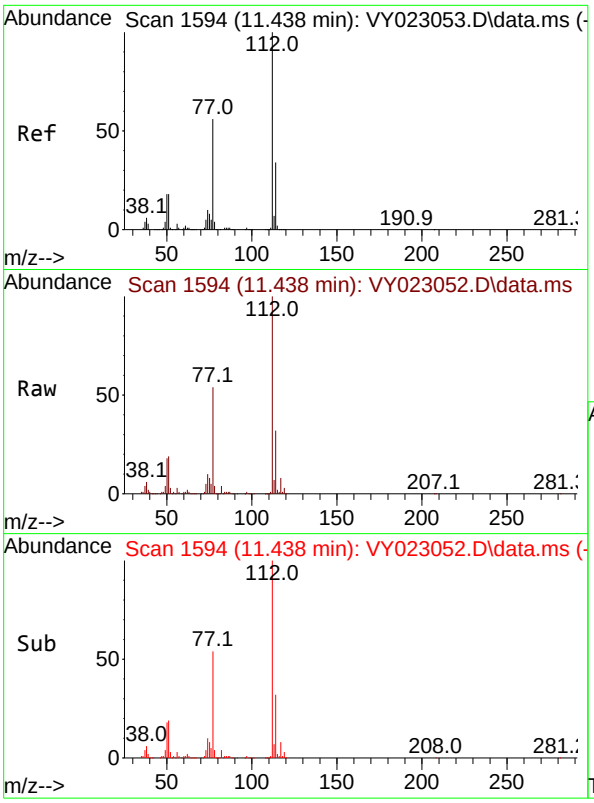



#64
Tetrachloroethene
Concen: 21.273 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:164 Resp: 141609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 128.7 | 101.1 | 151.7 |
| 129 | 92.9 | 74.0 | 111.0 |
| 131 | 87.3 | 71.1 | 106.7 |

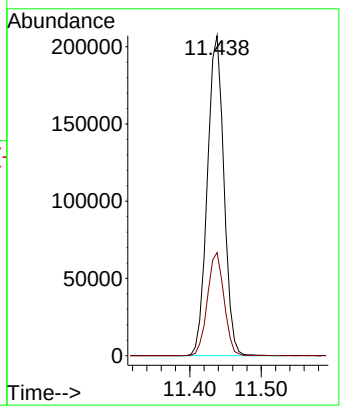





#65
Chlorobenzene
Concen: 20.690 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:112 Resp: 33270

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.2 | 27.0 | 40.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
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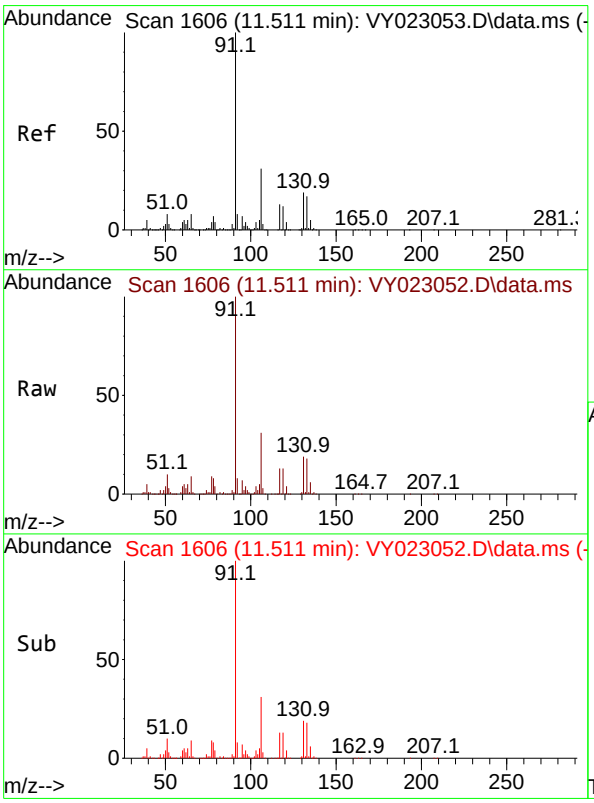
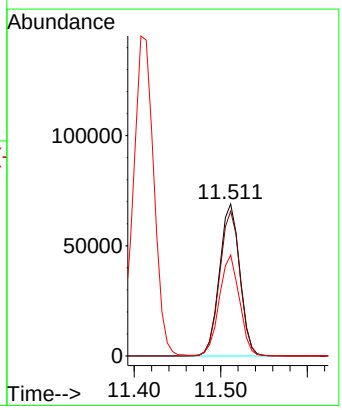
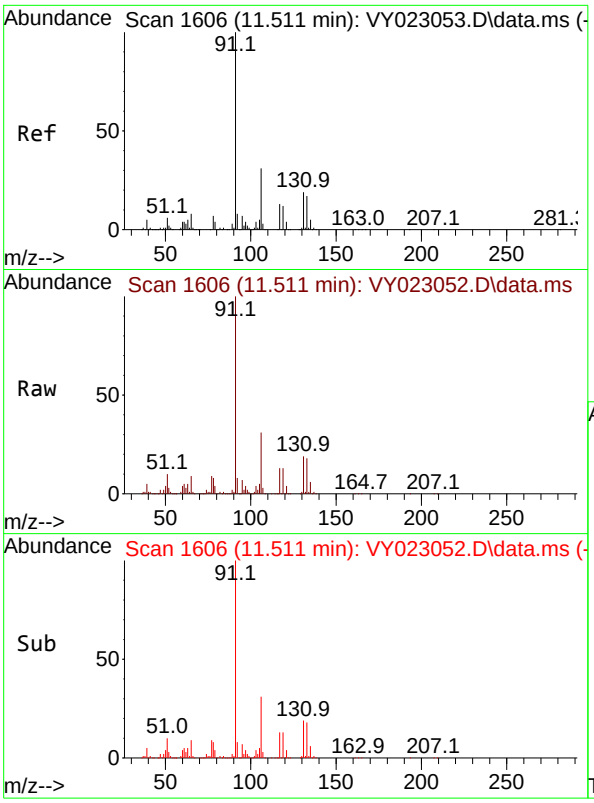



#66
1,1,1,2-Tetrachloroethane
Concen: 20.647 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:131 Resp: 112677

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.8 | 46.9 | 140.6 |
| 119 | 66.2 | 33.2 | 99.6 |






#67
Ethyl Benzene
Concen: 20.412 ug/l
RT: 11.511 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 91 Resp: 56485

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.8 | 25.0 | 37.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

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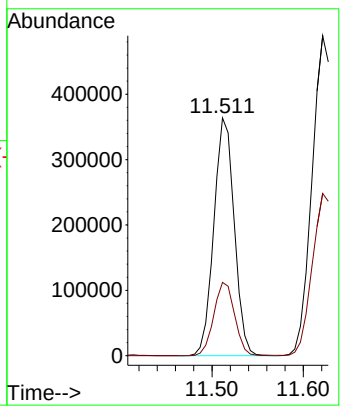
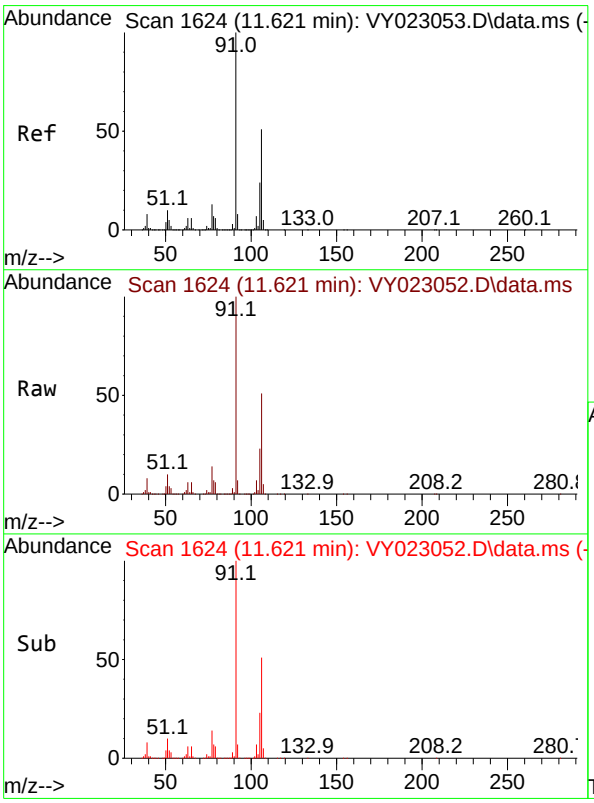
Supervised By :Semsettin Yesilyurt 08/14/2025

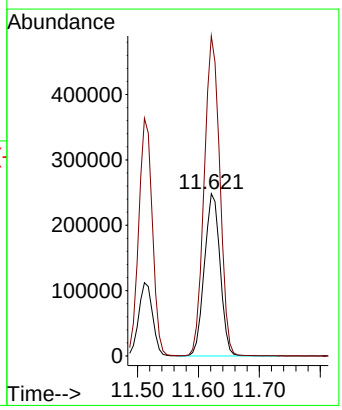


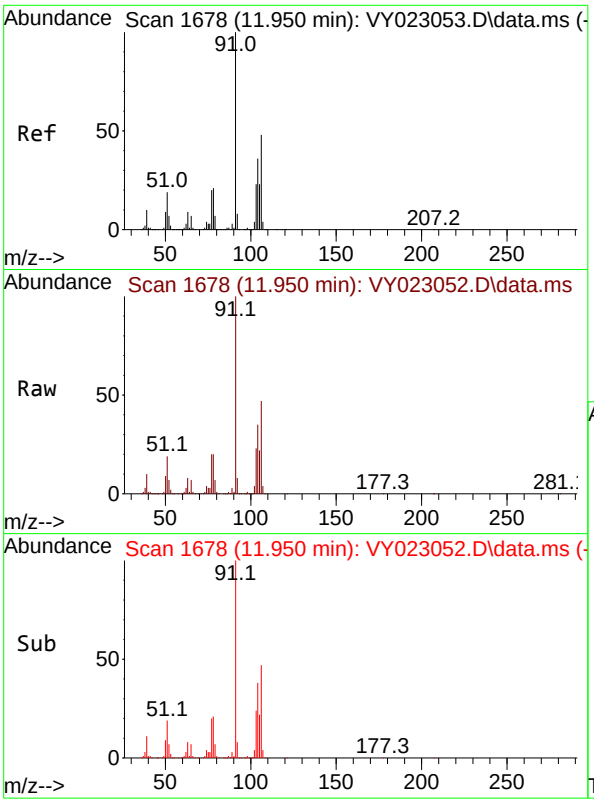




#68
m/p-Xylenes
Concen: 41.115 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:106 Resp: 444361

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 195.9 | 158.6 | 238.0 |






#69
o-Xylene
Concen: 20.513 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

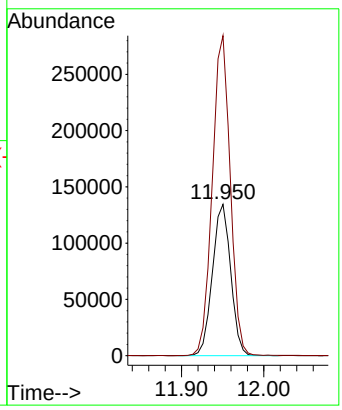
Tgt Ion:106 Resp: 20763

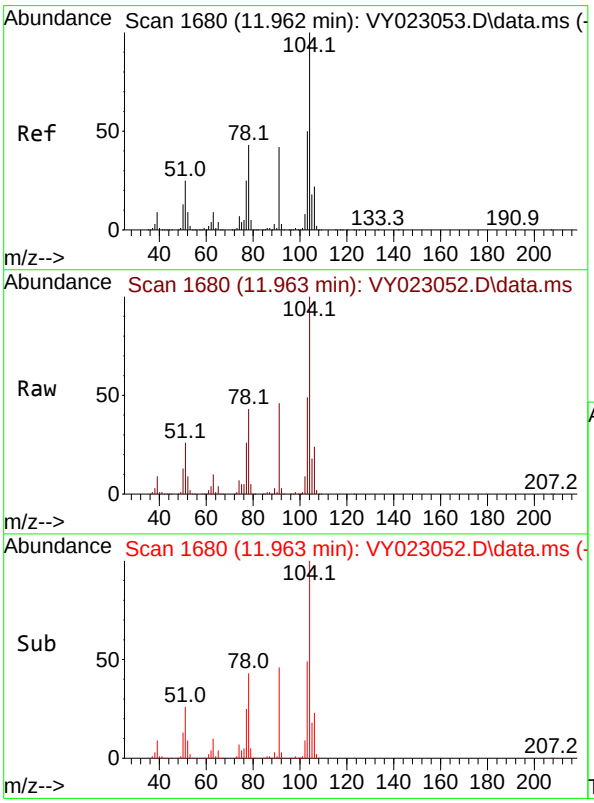
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 208.2 | 103.2 | 309.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

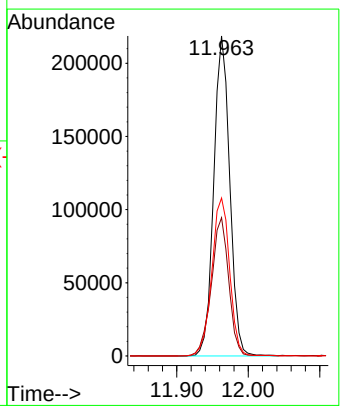


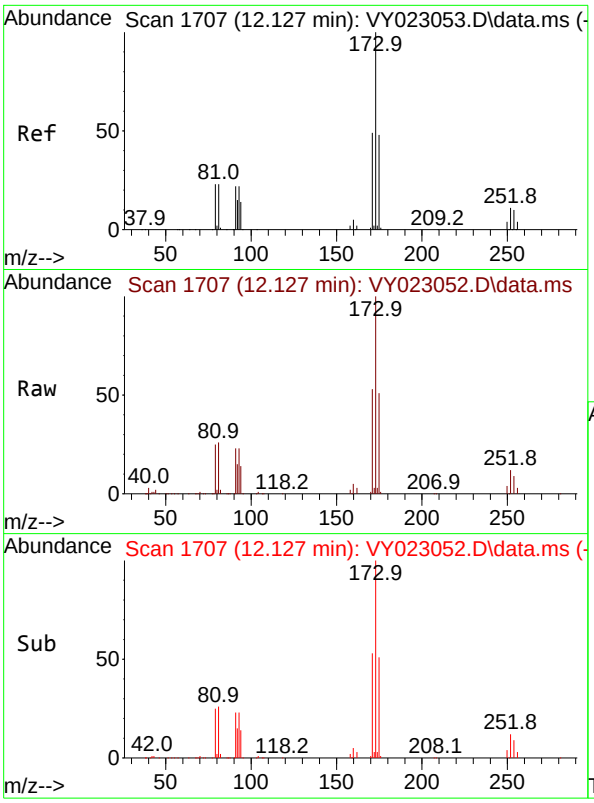




#70
Styrene
Concen: 20.532 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:104 Resp: 339891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 47.0 | 38.5 | 57.7 |
| 103 | 54.9 | 43.7 | 65.5 |

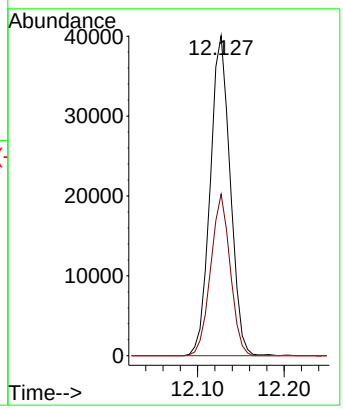





#71
Bromoform
Concen: 20.151 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:173 Resp: 6427

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.2 | 23.9 | 71.7 |
| 254 | 0.0 | 0.1 | 0.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
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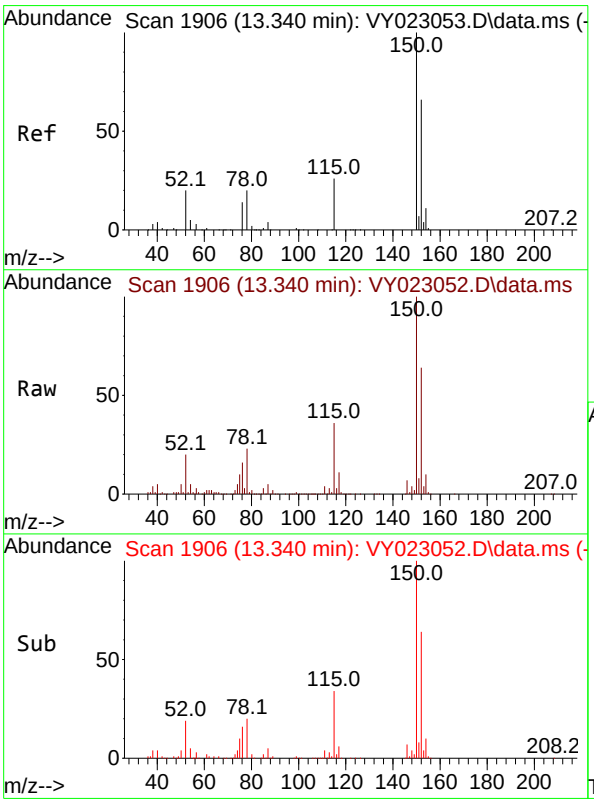
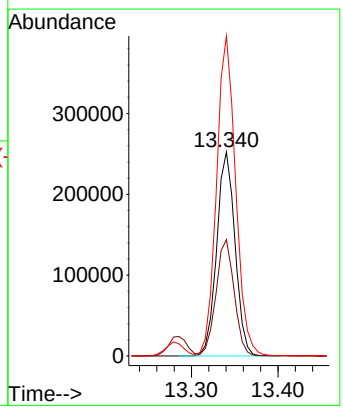
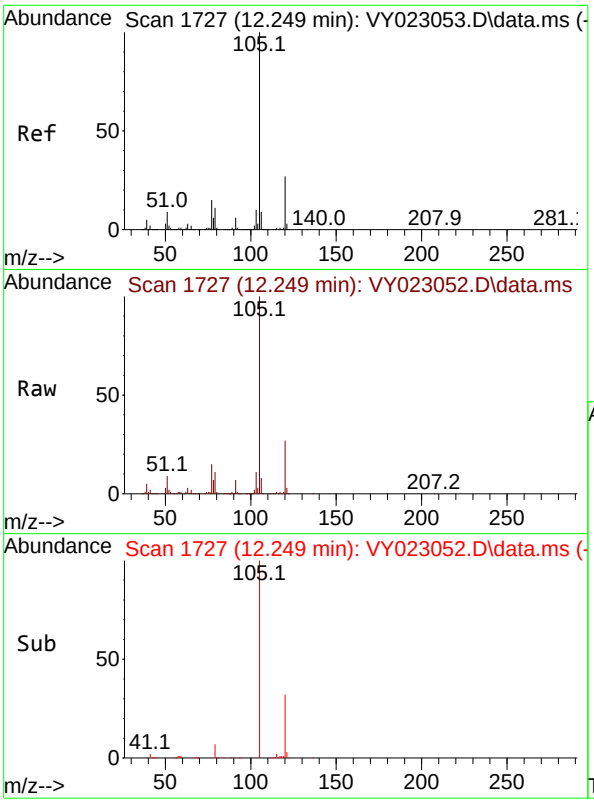



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:152 Resp: 370932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 56.4 | 28.2 | 84.6 |
| 150 | 163.6 | 0.0 | 348.0 |

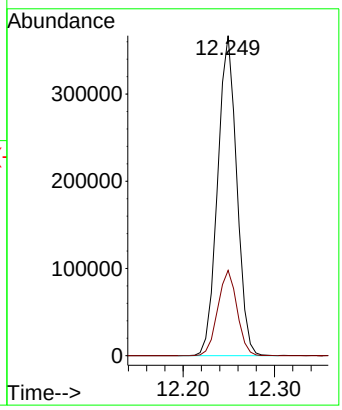





#73
Isopropylbenzene
Concen: 20.413 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:105 Resp: 53442

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.8 | 13.4 | 40.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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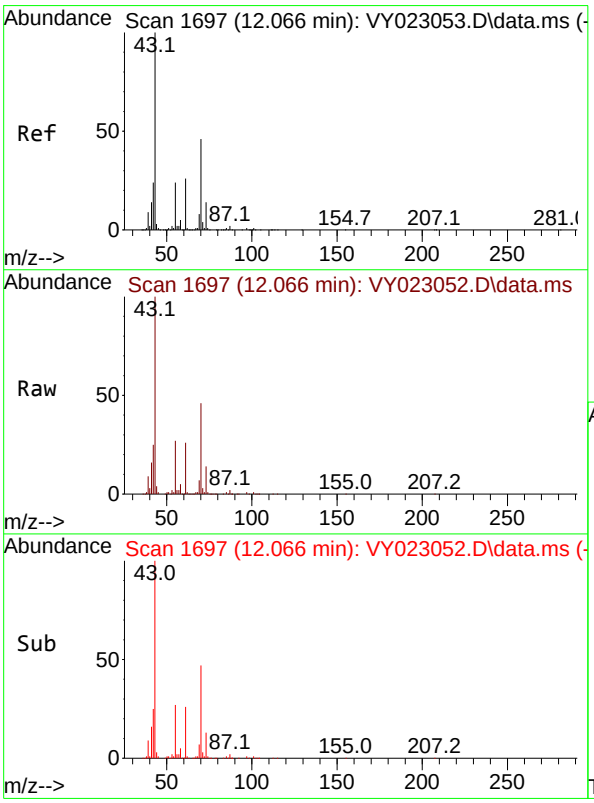
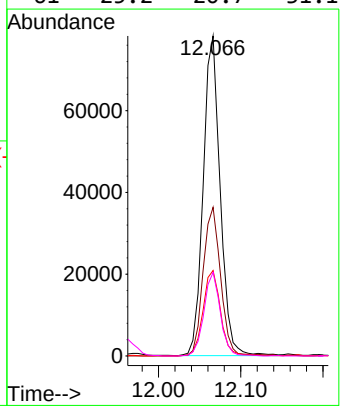
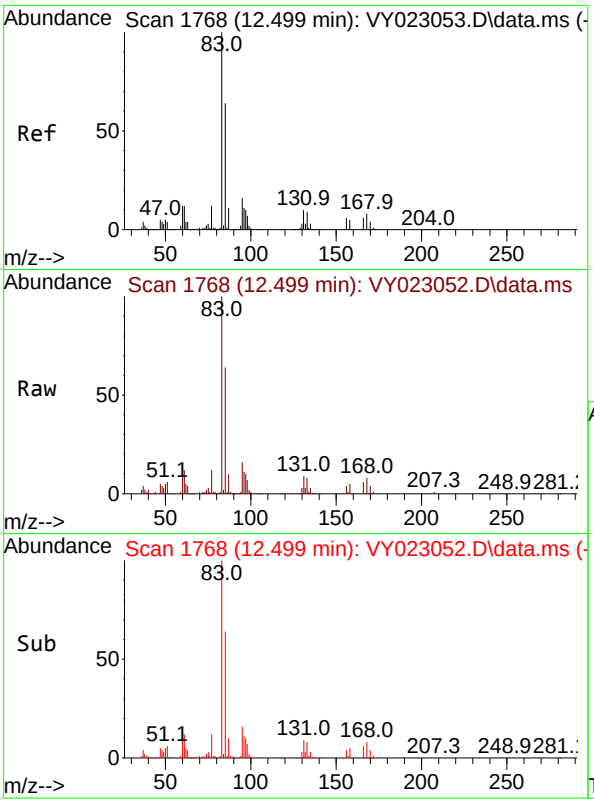



#74
N-amyl acetate
Concen: 20.227 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 43 Resp: 112297

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 48.1 | 37.5 | 56.3 |
| 55 | 27.7 | 20.7 | 31.1 |
| 61 | 25.2 | 20.7 | 31.1 |

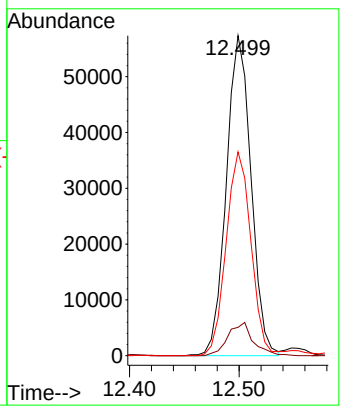





#75
1,1,2,2-Tetrachloroethane
Concen: 20.085 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 83 Resp: 8978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.6 | 5.1 | 15.3 |
| 85 | 63.8 | 31.8 | 95.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
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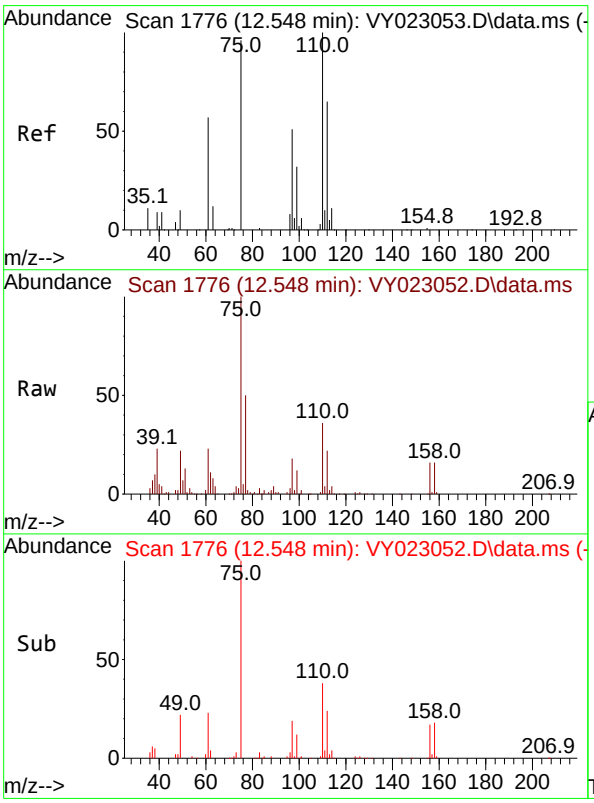
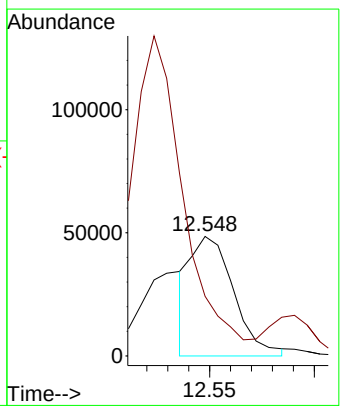
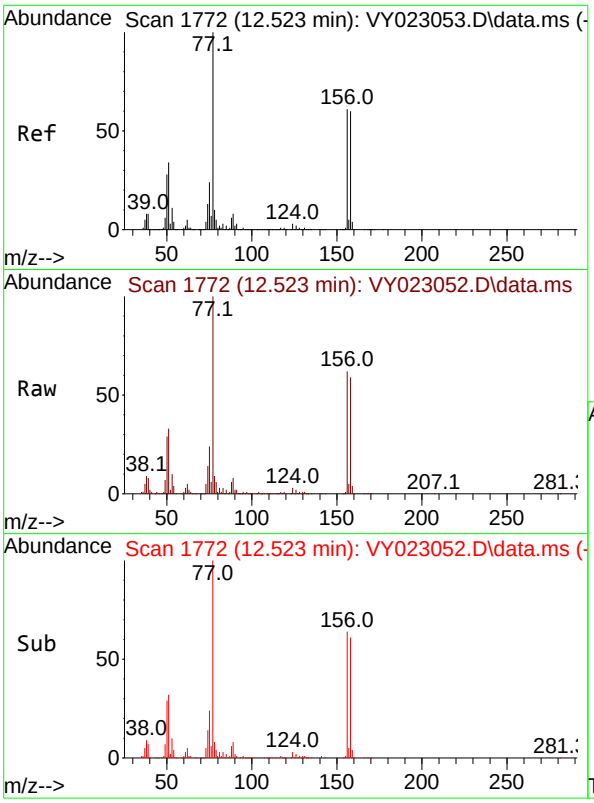



#76
1,2,3-Trichloropropane
Concen: 19.560 ug/l m
RT: 12.548 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 75 Resp: 70070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |

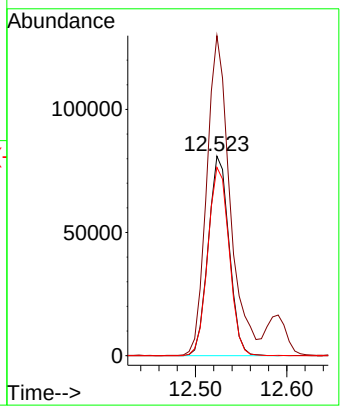





#77
Bromobenzene
Concen: 20.574 ug/l
RT: 12.523 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:156 Resp: 12850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 177.5 | 88.1 | 264.4 |
| 158 | 96.2 | 48.0 | 144.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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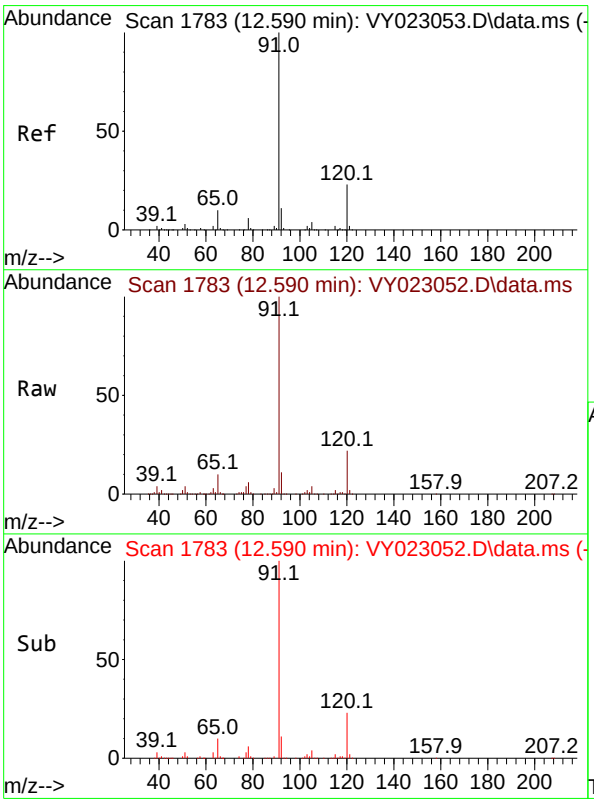
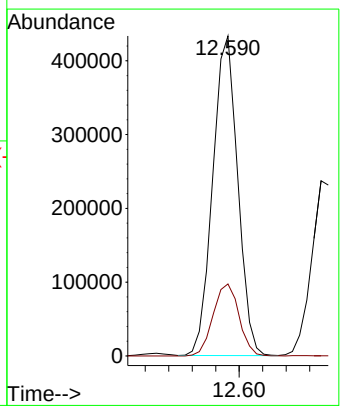
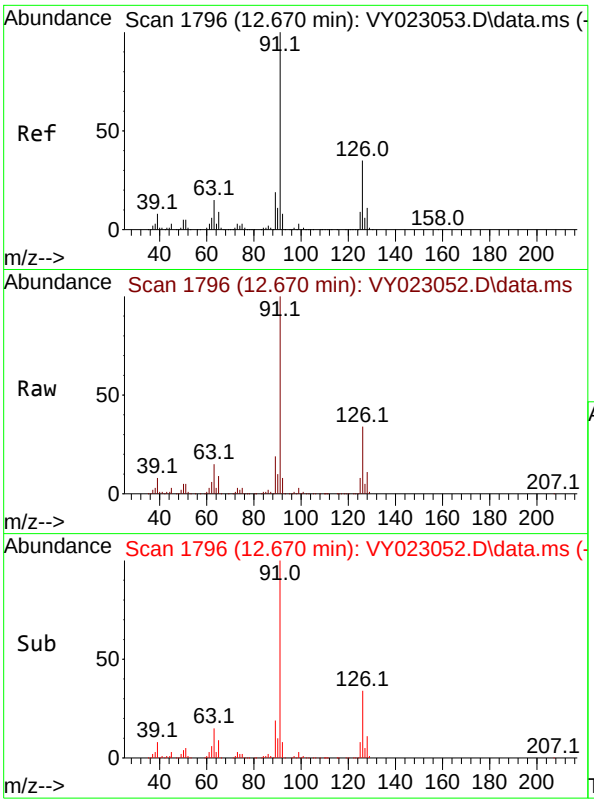



#78
n-propylbenzene
Concen: 20.550 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 91 Resp: 640528

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 23.3 | 11.5 | 34.5 |

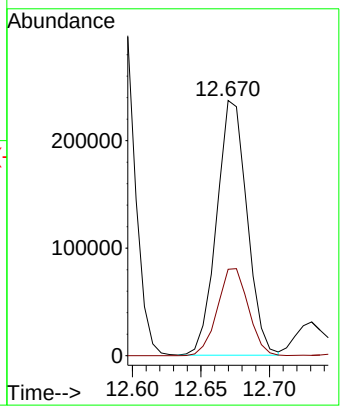





#79
2-Chlorotoluene
Concen: 20.471 ug/l
RT: 12.670 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 91 Resp: 36557

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.8 | 17.4 | 52.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

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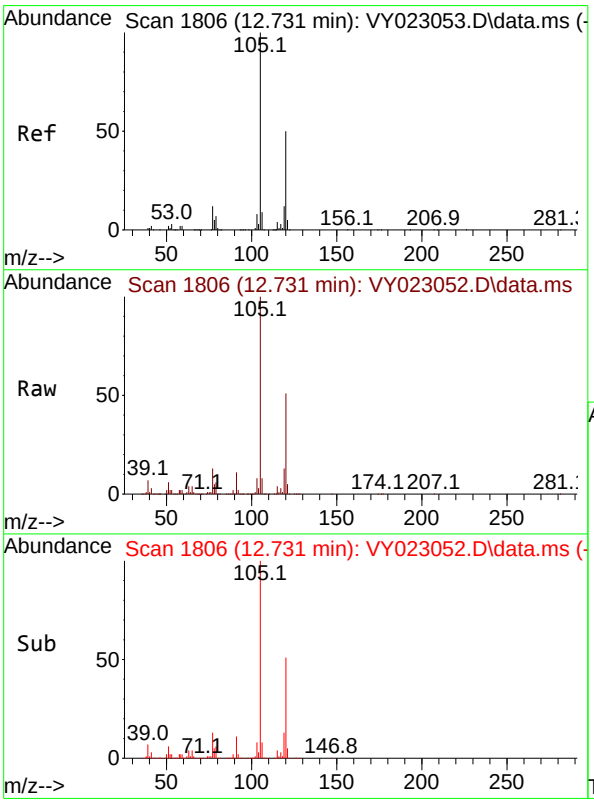
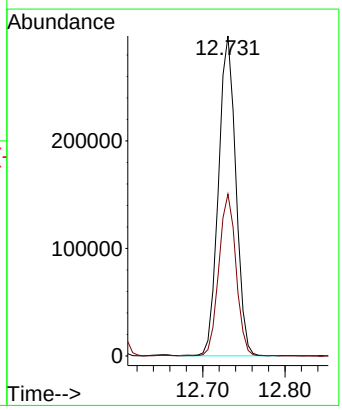
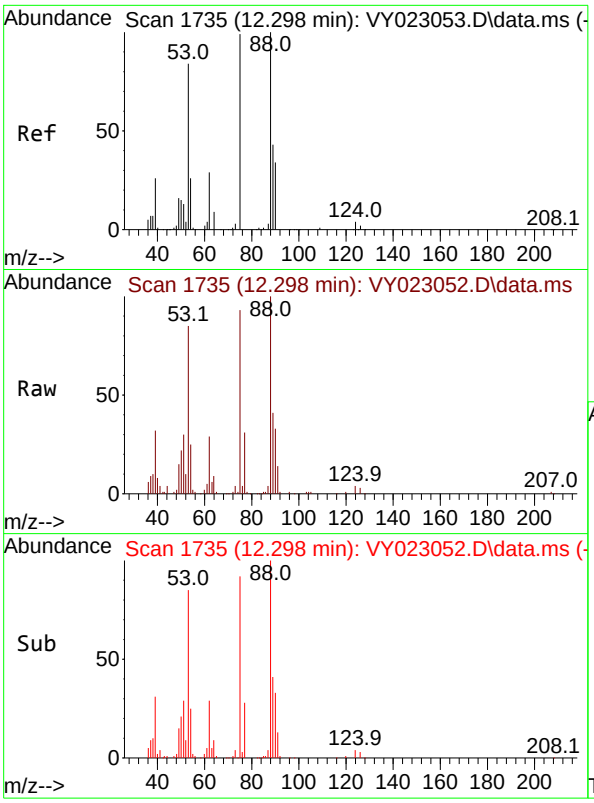



#80
1,3,5-Trimethylbenzene
Concen: 20.563 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:105 Resp: 435074

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 50.2 | 24.8 | 74.4 |






#81
trans-1,4-Dichloro-2-butene
Concen: 20.389 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 75 Resp: 3015

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 91.7 | 70.8 | 106.2 |
| 89 | 46.2 | 38.1 | 57.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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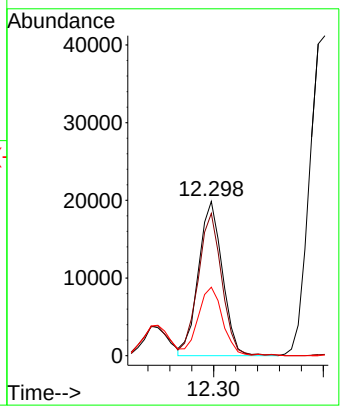
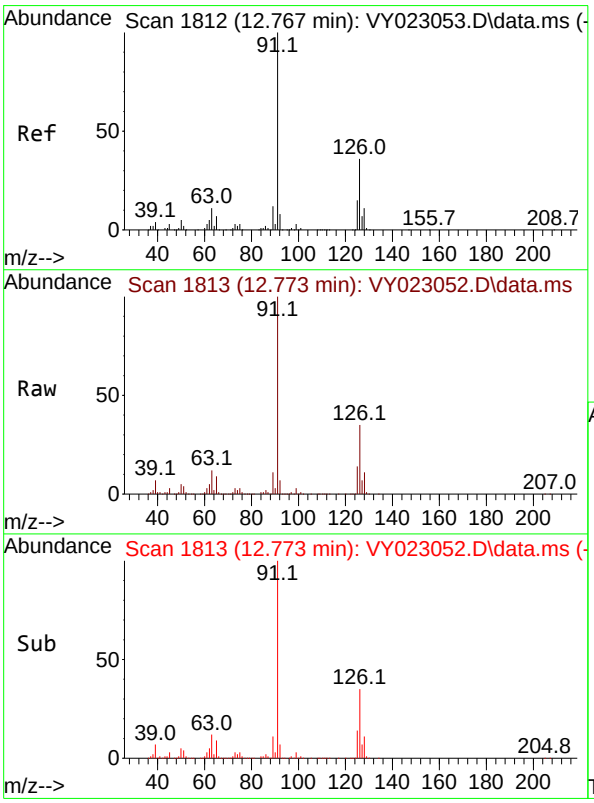
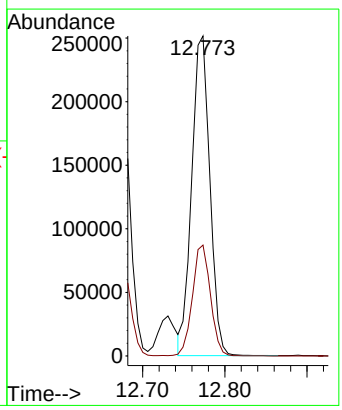


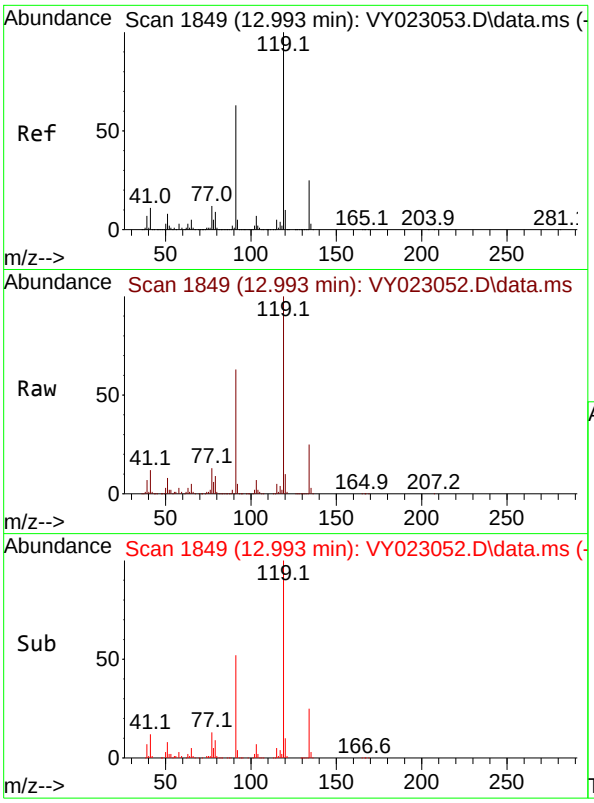




#82
4-Chlorotoluene
Concen: 20.822 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 91 Resp: 385755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.3 | 17.3 | 52.0 |

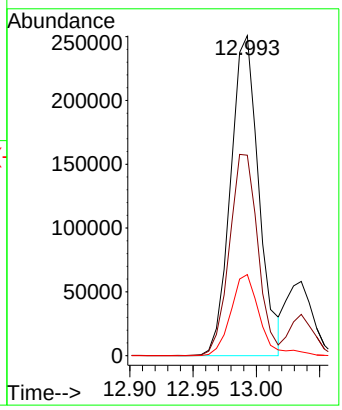





#83
tert-Butylbenzene
Concen: 20.389 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:119 Resp: 38962

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 63.4 | 31.6 | 94.8 |
| 134 | 26.1 | 12.9 | 38.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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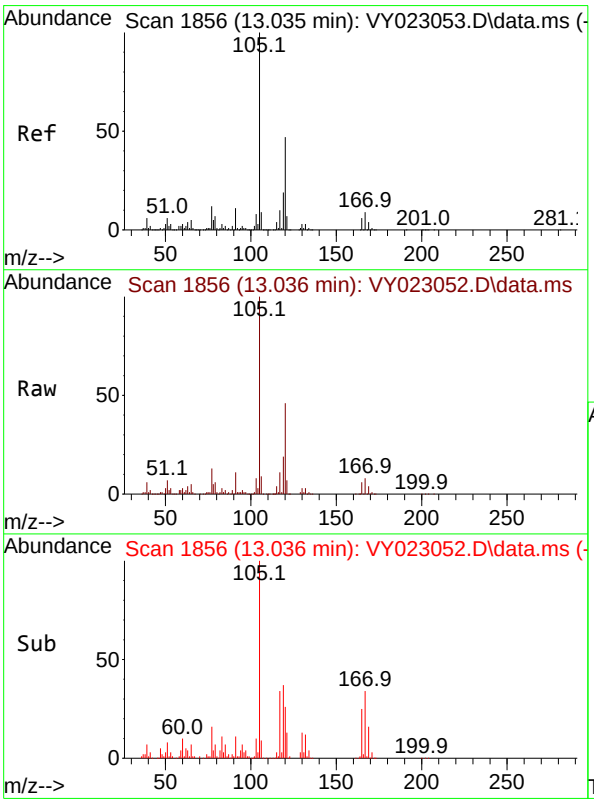
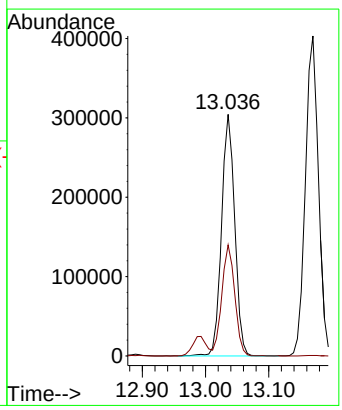
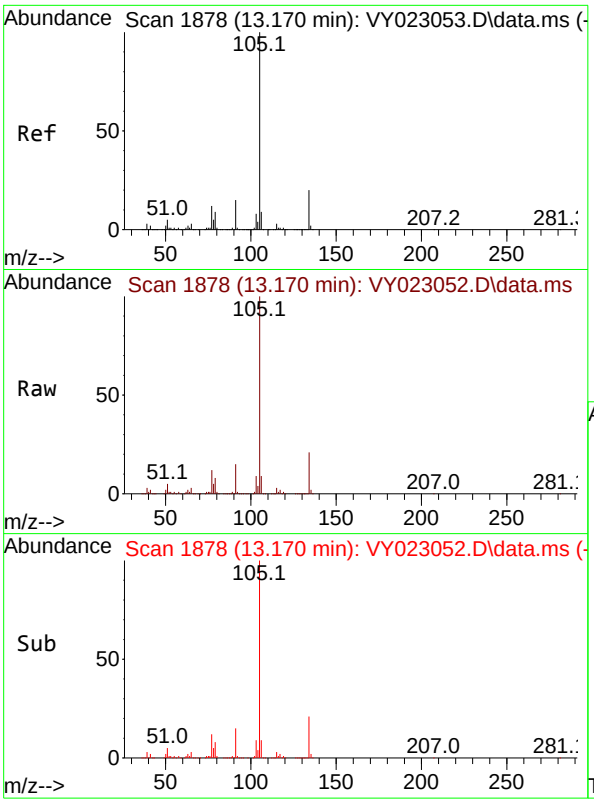



#84
1,2,4-Trimethylbenzene
Concen: 20.814 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:105 Resp: 438392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.0 | 23.0 | 69.0 |

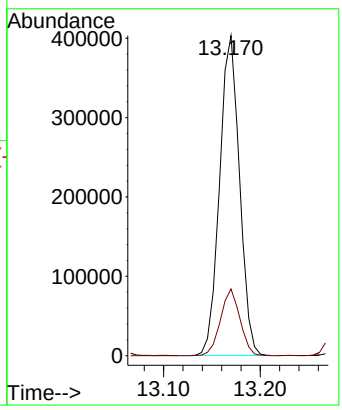





#85
sec-Butylbenzene
Concen: 20.512 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:105 Resp: 57580

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.3 | 10.2 | 30.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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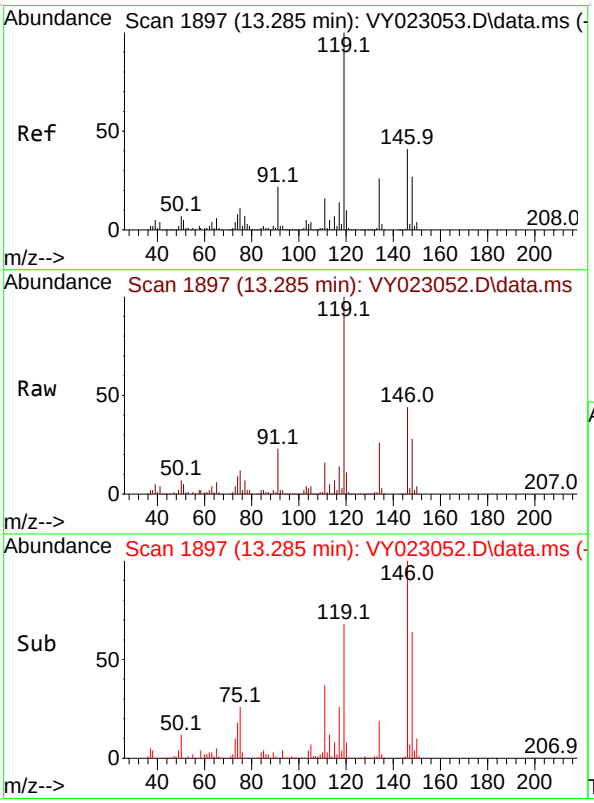
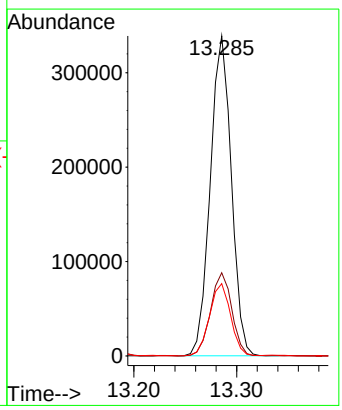
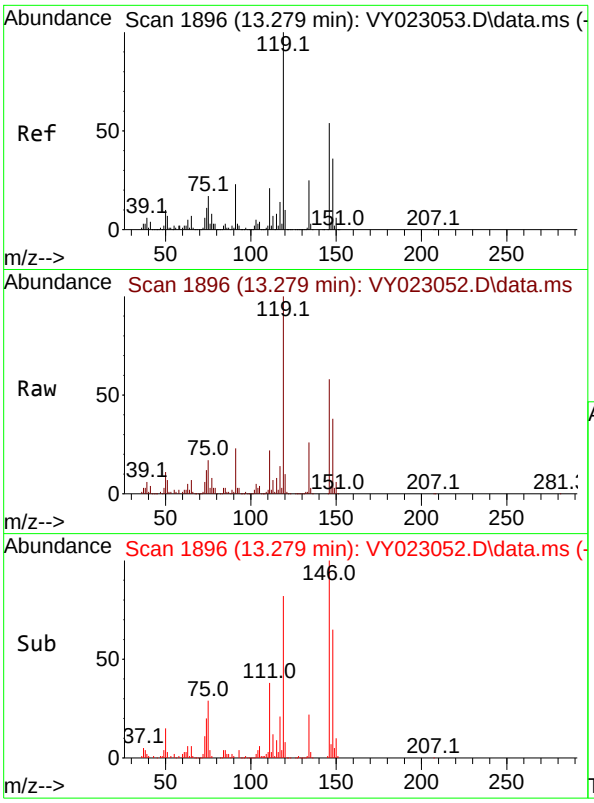



#86
p-Isopropyltoluene
Concen: 20.640 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:119 Resp: 480937

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.3 | 13.2 | 39.6 |
| 91 | 22.6 | 11.3 | 33.8 |

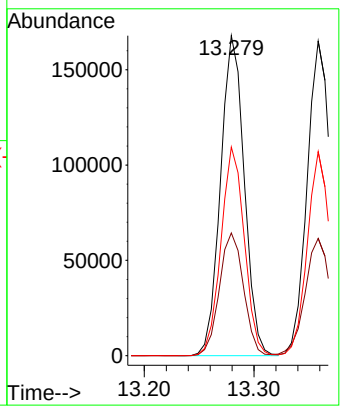





#87
1,3-Dichlorobenzene
Concen: 20.497 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:146 Resp: 25245

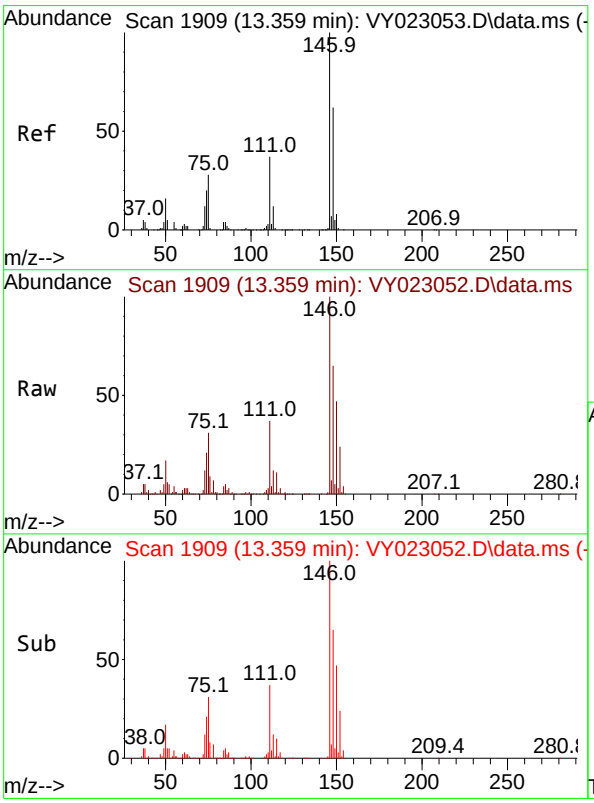
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.1 | 19.6 | 58.7 |
| 148 | 64.3 | 32.5 | 97.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

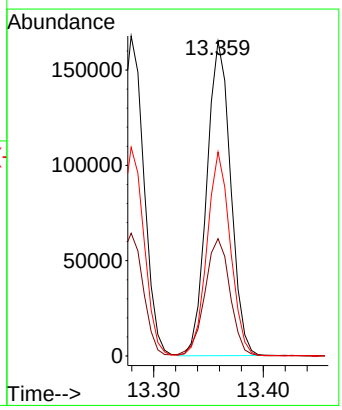
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

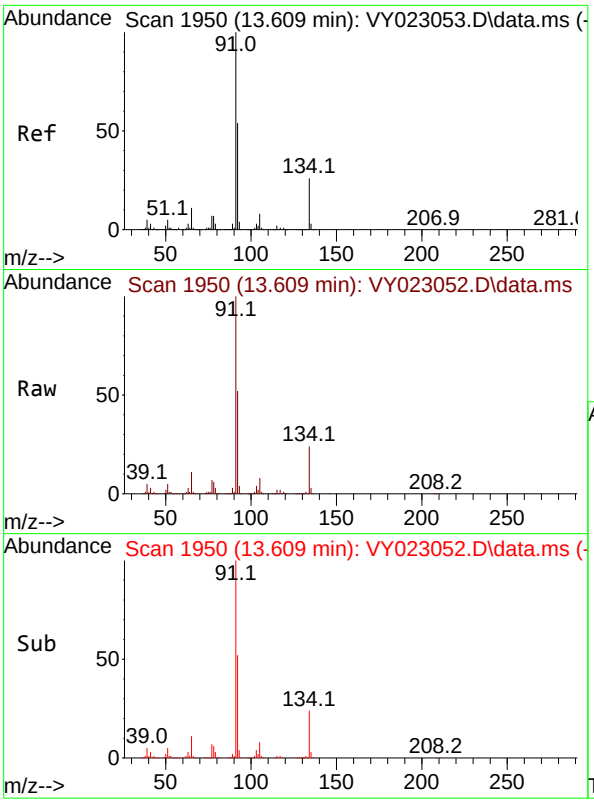



#88
1,4-Dichlorobenzene
Concen: 20.403 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:146 Resp: 249280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.3 | 19.1 | 57.1 |
| 148 | 63.5 | 31.6 | 94.7 |

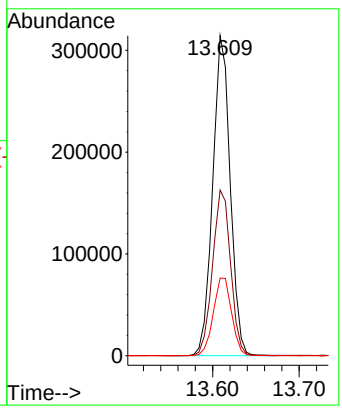





#89
n-Butylbenzene
Concen: 20.605 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 91 Resp: 44096

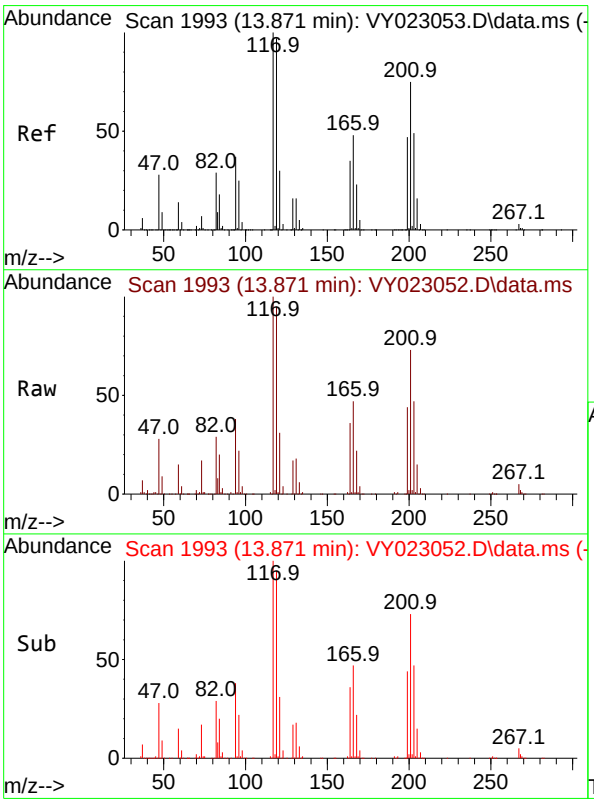
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.4 | 26.9 | 80.7 |
| 134 | 25.4 | 13.2 | 39.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

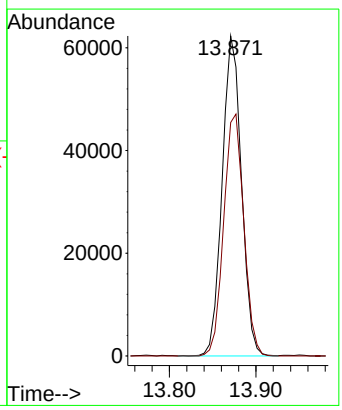
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

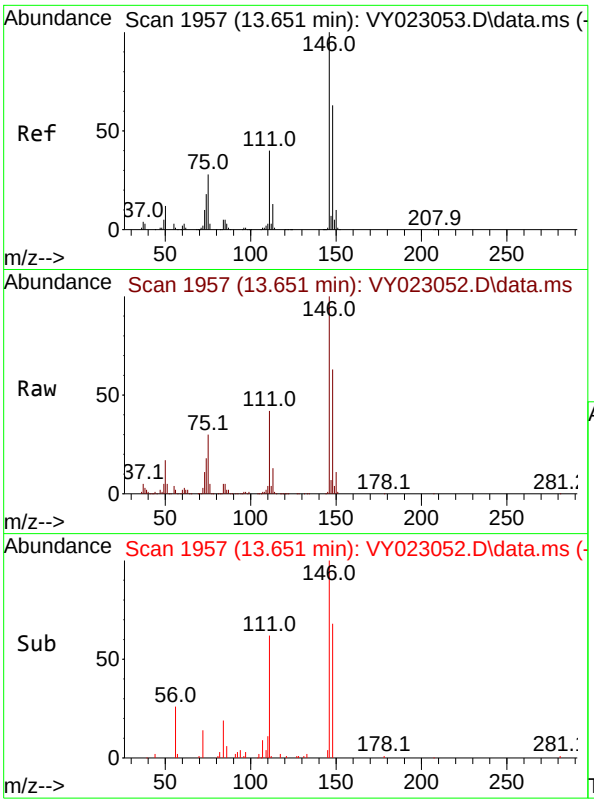



#90
Hexachloroethane
Concen: 20.226 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:117 Resp: 96478

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 78.5 | 38.4 | 115.1 |

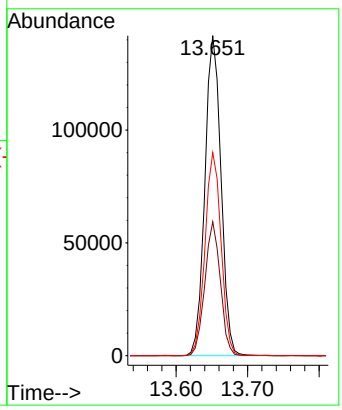





#91
1,2-Dichlorobenzene
Concen: 20.552 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:146 Resp: 22200

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.2 | 20.3 | 60.8 |
| 148 | 63.2 | 32.2 | 96.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
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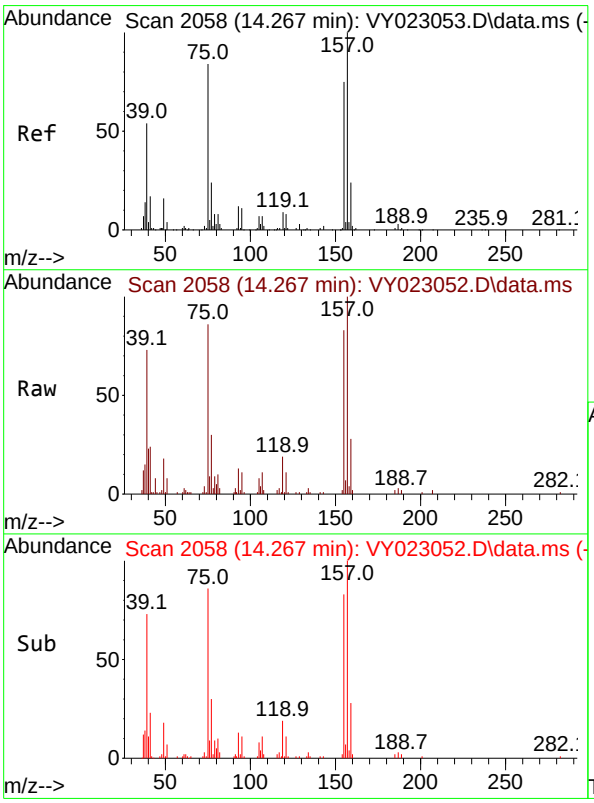
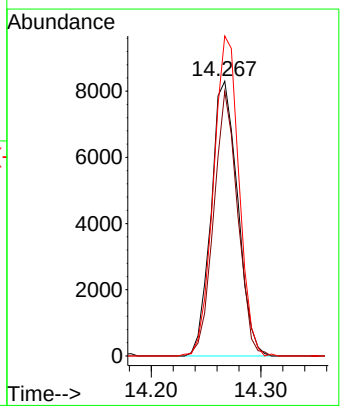
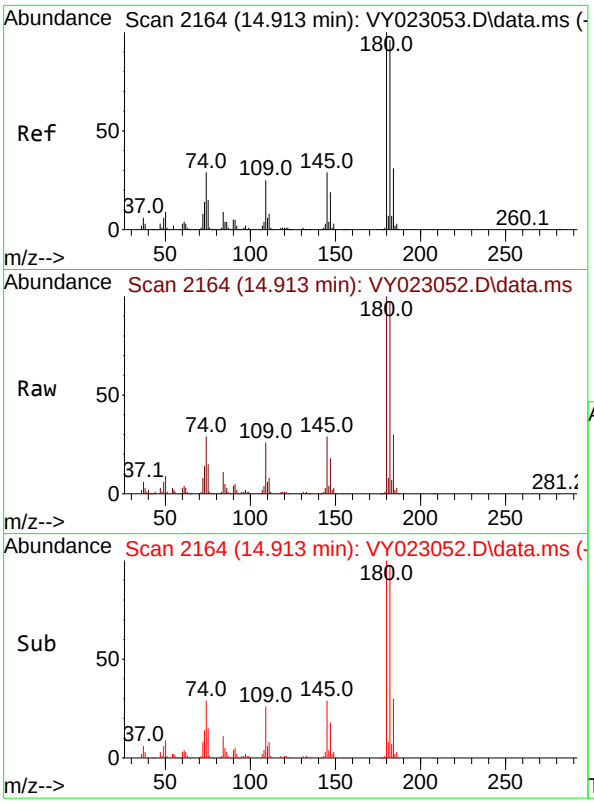



#92
1,2-Dibromo-3-Chloropropane
Concen: 20.076 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 75 Resp: 13973

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 86.7 | 43.9 | 131.6 |
| 157 | 111.6 | 57.2 | 171.6 |

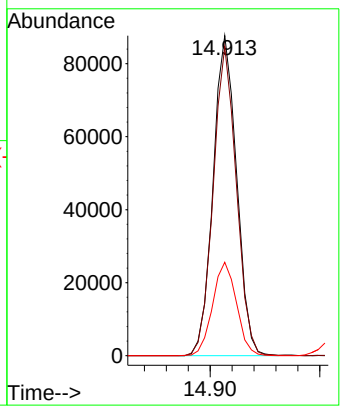





#93
1,2,4-Trichlorobenzene
Concen: 20.464 ug/l
RT: 14.913 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:180 Resp: 13071

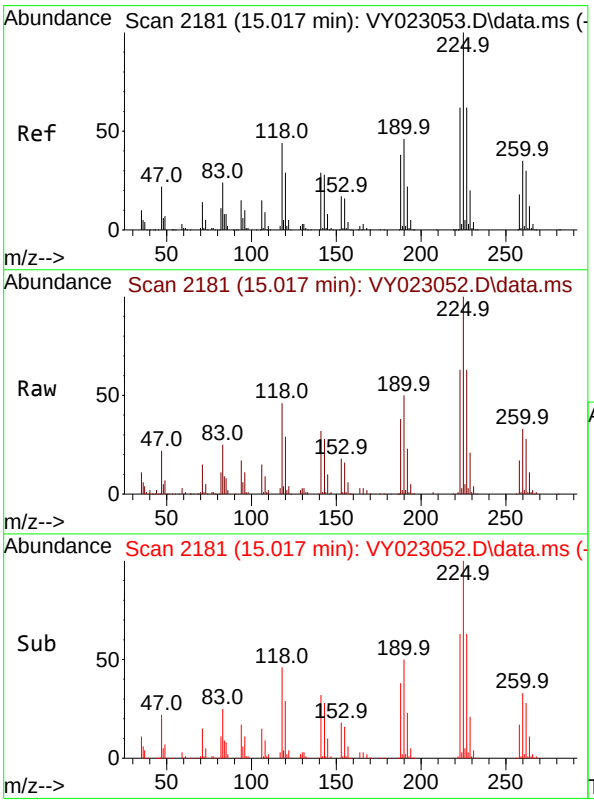
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.1 | 46.8 | 140.4 |
| 145 | 29.6 | 14.4 | 43.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

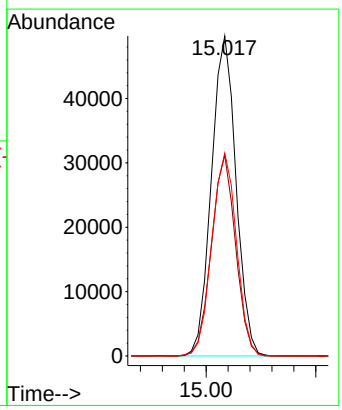
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

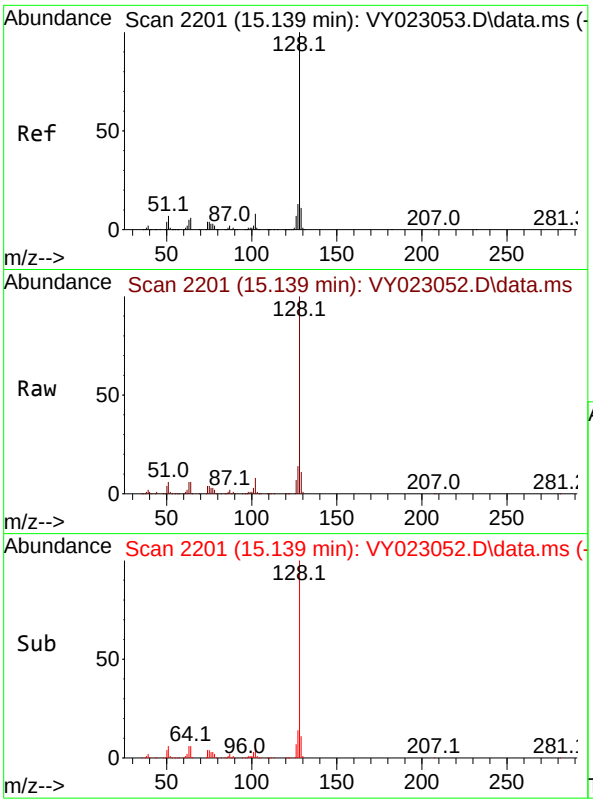



#94
Hexachlorobutadiene
Concen: 20.650 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:225 Resp: 77511

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 61.5 | 31.3 | 93.8 |
| 227 | 63.6 | 31.5 | 94.5 |

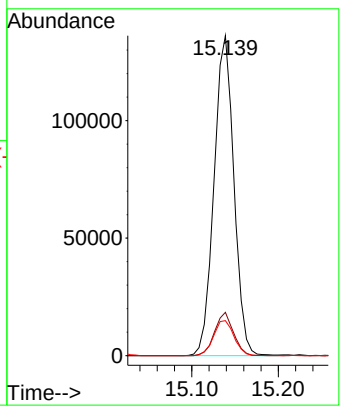





#95
Naphthalene
Concen: 19.915 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:128 Resp: 21692

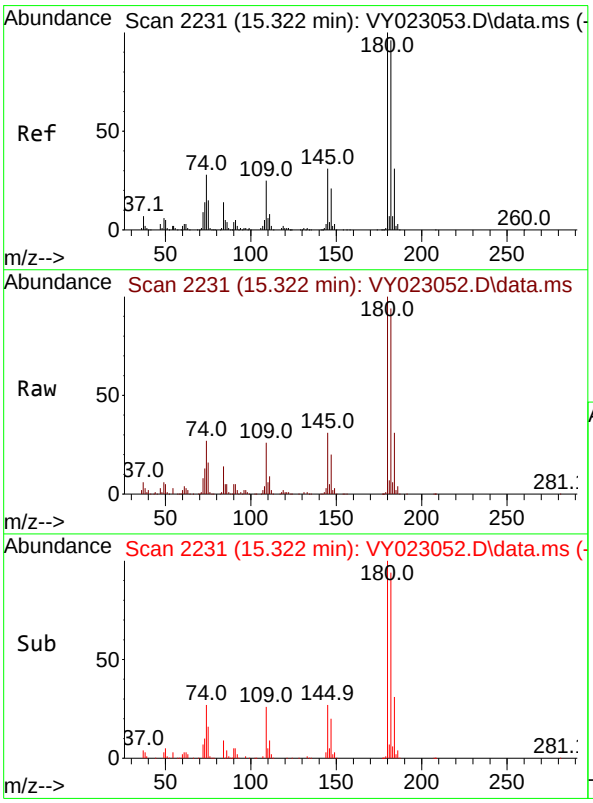
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.9 | 10.4 | 15.6 |
| 129 | 11.4 | 9.0 | 13.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

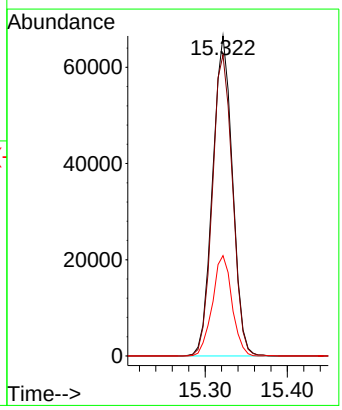
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025




#96
1,2,3-Trichlorobenzene
Concen: 20.258 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:180 Resp: 111506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.3 | 47.9 | 143.7 |
| 145 | 31.0 | 15.9 | 47.7 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023053.D
Acq On : 12 Aug 2025 16:02
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:53:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 539282 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.609 | 114 | 856556 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.408 | 117 | 751969 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 377839 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.055 | 65 | 249044 | 48.455 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 96.900% | | | |
| 35) Dibromofluoromethane | 7.628 | 113 | 251193 | 49.010 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 98.020% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 979082 | 48.899 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 97.800% | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 316770 | 49.194 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 98.380% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.861 | 85 | 187863 | 42.677 | ug/l | 100 |
| 3) Chloromethane | 2.068 | 50 | 327481 | 45.932 | ug/l | 100 |
| 4) Vinyl Chloride | 2.196 | 62 | 414609 | 47.044 | ug/l | 100 |
| 5) Bromomethane | 2.592 | 94 | 291336 | 44.263 | ug/l | 100 |
| 6) Chloroethane | 2.726 | 64 | 277698 | 47.394 | ug/l | 100 |
| 7) Trichlorofluoromethane | 3.049 | 101 | 505137 | 47.136 | ug/l | 100 |
| 8) Diethyl Ether | 3.446 | 74 | 135373 | 47.747 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 3.805 | 101 | 249063 | 47.109 | ug/l | 100 |
| 10) Methyl Iodide | 3.994 | 142 | 296087 | 51.899 | ug/l | 100 |
| 11) Tert butyl alcohol | 4.860 | 59 | 85712 | 243.383 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 3.781 | 96 | 249492 | 48.009 | ug/l | 100 |
| 13) Acrolein | 3.647 | 56 | 121185 | 234.966 | ug/l | 100 |
| 14) Allyl chloride | 4.378 | 41 | 369720 | 48.350 | ug/l | 100 |
| 15) Acrylonitrile | 5.049 | 53 | 285675 | 247.839 | ug/l | 100 |
| 16) Acetone | 3.860 | 43 | 278510 | 250.122 | ug/l | 100 |
| 17) Carbon Disulfide | 4.098 | 76 | 804119 | 47.456 | ug/l | 100 |
| 18) Methyl Acetate | 4.378 | 43 | 173642 | 52.403 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.110 | 73 | 666514 | 49.495 | ug/l | 100 |
| 20) Methylene Chloride | 4.604 | 84 | 275004 | 47.415 | ug/l | 100 |
| 21) trans-1,2-Dichloroethene | 5.104 | 96 | 282272 | 48.334 | ug/l | 100 |
| 22) Diisopropyl ether | 6.018 | 45 | 815359 | 49.070 | ug/l | 100 |
| 23) Vinyl Acetate | 5.951 | 43 | 2268046 | 246.849 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.909 | 63 | 495073 | 48.732 | ug/l | 100 |
| 25) 2-Butanone | 6.884 | 43 | 382711 | 252.715 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 425773 | 48.571 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 6.884 | 96 | 327272 | 48.474 | ug/l | 100 |
| 28) Bromochloromethane | 7.244 | 49 | 196667 | 48.795 | ug/l | 100 |
| 29) Tetrahydrofuran | 7.256 | 42 | 235169 | 250.523 | ug/l | 100 |
| 30) Chloroform | 7.415 | 83 | 508641 | 48.547 | ug/l | 100 |
| 31) Cyclohexane | 7.695 | 56 | 440266 | 45.989 | ug/l | 100 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 451521 | 48.569 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 7.829 | 75 | 371204 | 48.734 | ug/l | 100 |
| 37) Ethyl Acetate | 6.982 | 43 | 160980 | 50.311 | ug/l | 100 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 399463 | 48.285 | ug/l | 100 |
| 39) Methylcyclohexane | 9.103 | 83 | 484691 | 48.321 | ug/l | 100 |
| 40) Benzene | 8.073 | 78 | 1142910 | 48.683 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023053.D
Acq On : 12 Aug 2025 16:02
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 13 01:53:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.219 | 41 | 94123 | 50.916 | ug/l | | 100 |
| 42) 1,2-Dichloroethane | 8.152 | 62 | 296907 | 48.627 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.195 | 43 | 319600 | 49.419 | ug/l | | 100 |
| 44) Trichloroethene | 8.859 | 130 | 292421 | 48.199 | ug/l | | 100 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 264354 | 48.938 | ug/l | | 100 |
| 46) Dibromomethane | 9.225 | 93 | 152822 | 49.291 | ug/l | | 100 |
| 47) Bromodichloromethane | 9.420 | 83 | 393523 | 49.327 | ug/l | | 100 |
| 48) Methyl methacrylate | 9.213 | 41 | 160792 | 51.958 | ug/l | | 100 |
| 49) 1,4-Dioxane | 9.225 | 88 | 36249 | 997.124 | ug/l | | 100 |
| 51) 4-Methyl-2-Pentanone | 9.993 | 43 | 853025 | 255.710 | ug/l | | 100 |
| 52) Toluene | 10.164 | 92 | 735326 | 49.315 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 359698 | 49.790 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 424834 | 49.731 | ug/l | | 100 |
| 55) 1,1,2-Trichloroethane | 10.566 | 97 | 204368 | 49.261 | ug/l | | 100 |
| 56) Ethyl methacrylate | 10.432 | 69 | 273801 | 51.576 | ug/l | | 100 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 346510 | 49.249 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 663351 | 264.906 | ug/l | | 100 |
| 59) 2-Hexanone | 10.755 | 43 | 584223 | 257.194 | ug/l | | 100 |
| 60) Dibromochloromethane | 10.908 | 129 | 272171 | 49.719 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 11.005 | 107 | 193398 | 49.598 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.640 | 164 | 327271 | 48.740 | ug/l | | 100 |
| 65) Chlorobenzene | 11.438 | 112 | 793490 | 48.920 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.511 | 131 | 271839 | 49.381 | ug/l | | 100 |
| 67) Ethyl Benzene | 11.511 | 91 | 1397704 | 50.073 | ug/l | | 100 |
| 68) m/p-Xylenes | 11.621 | 106 | 1080401 | 99.103 | ug/l | | 100 |
| 69) o-Xylene | 11.950 | 106 | 516002 | 50.536 | ug/l | | 100 |
| 70) Styrene | 11.962 | 104 | 844409 | 50.569 | ug/l | | 100 |
| 71) Bromoform | 12.127 | 173 | 160769 | 49.969 | ug/l | # | 100 |
| 73) Isopropylbenzene | 12.249 | 105 | 1324313 | 49.660 | ug/l | | 100 |
| 74) N-amyl acetate | 12.066 | 43 | 289914 | 51.264 | ug/l | | 100 |
| 75) 1,1,2,2-Tetrachloroethane | 12.499 | 83 | 220853 | 48.503 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.548 | 75 | 202260m | 55.430 | ug/l | | |
| 77) Bromobenzene | 12.523 | 156 | 312706 | 49.152 | ug/l | | 100 |
| 78) n-propylbenzene | 12.590 | 91 | 1593368 | 50.186 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.670 | 91 | 899967 | 49.473 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.731 | 105 | 1080333 | 50.126 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.298 | 75 | 74567 | 49.500 | ug/l | | 100 |
| 82) 4-Chlorotoluene | 12.767 | 91 | 930329 | 49.299 | ug/l | | 100 |
| 83) tert-Butylbenzene | 12.993 | 119 | 978031 | 50.244 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.035 | 105 | 1071926 | 49.963 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.170 | 105 | 1425553 | 49.854 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.285 | 119 | 1196645 | 50.417 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.279 | 146 | 608249 | 48.481 | ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 13.359 | 146 | 605079 | 48.618 | ug/l | | 100 |
| 89) n-Butylbenzene | 13.609 | 91 | 1099864 | 50.454 | ug/l | | 100 |
| 90) Hexachloroethane | 13.871 | 117 | 238005 | 48.984 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 13.651 | 146 | 536637 | 48.772 | ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.267 | 75 | 35867 | 50.592 | ug/l | | 100 |
| 93) 1,2,4-Trichlorobenzene | 14.913 | 180 | 320080 | 49.192 | ug/l | | 100 |
| 94) Hexachlorobutadiene | 15.017 | 225 | 185604 | 48.543 | ug/l | | 100 |
| 95) Naphthalene | 15.139 | 128 | 562363 | 50.685 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.322 | 180 | 272154 | 48.540 | ug/l | | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023053.D
Acq On : 12 Aug 2025 16:02
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:53:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023053.D
Acq On : 12 Aug 2025 16:02
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 13 01:53:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
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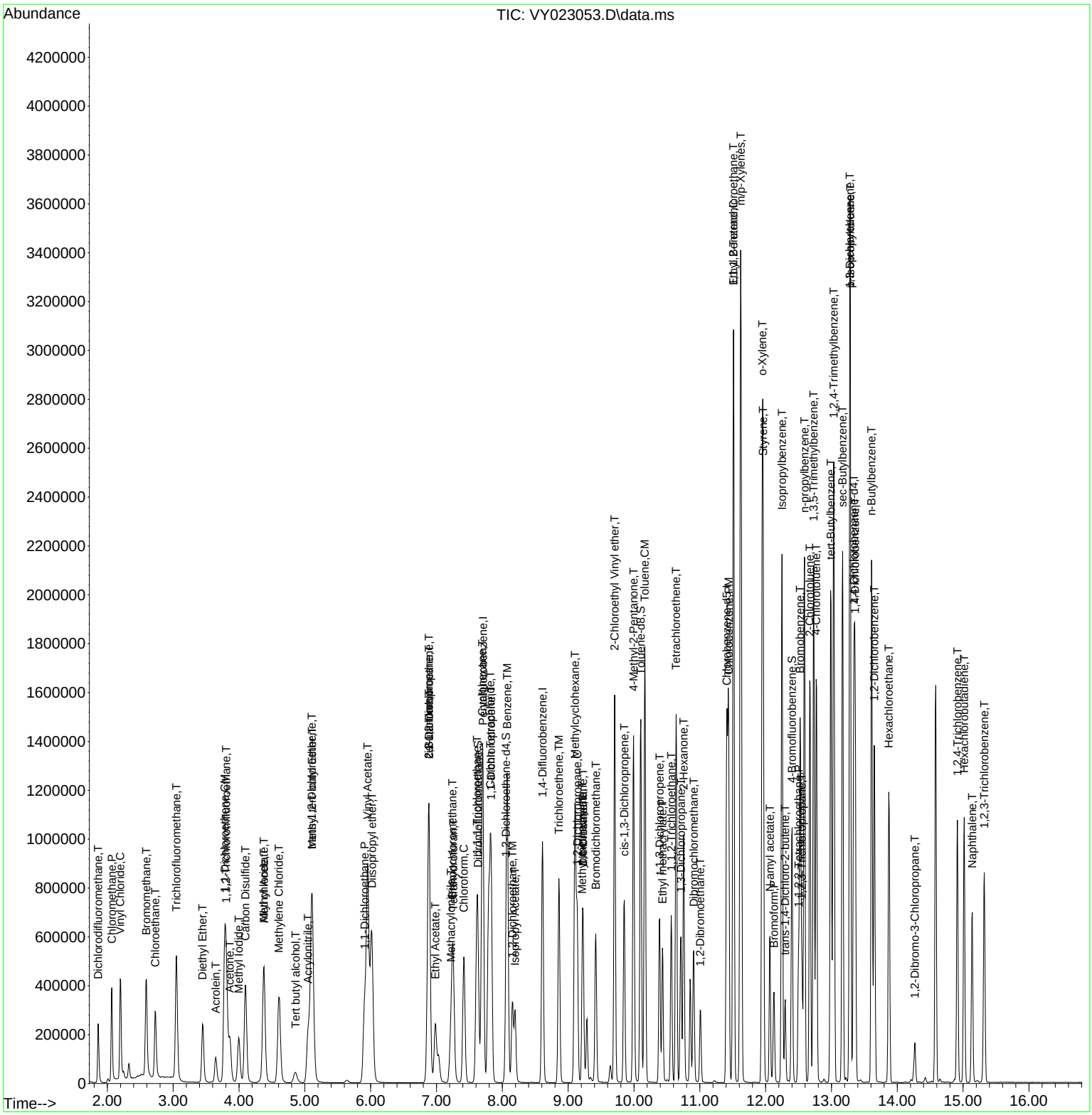
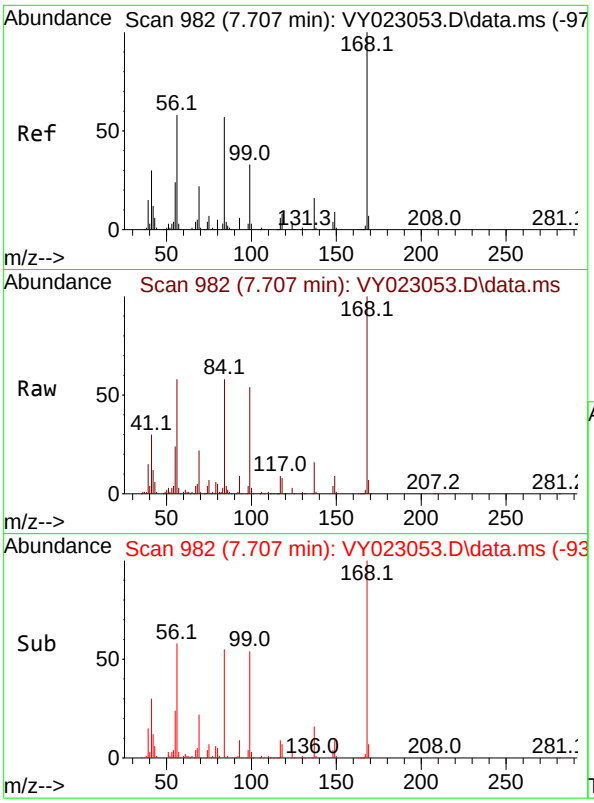





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

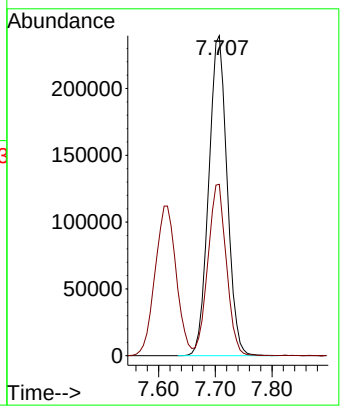
Tgt Ion:168 Resp: 53928

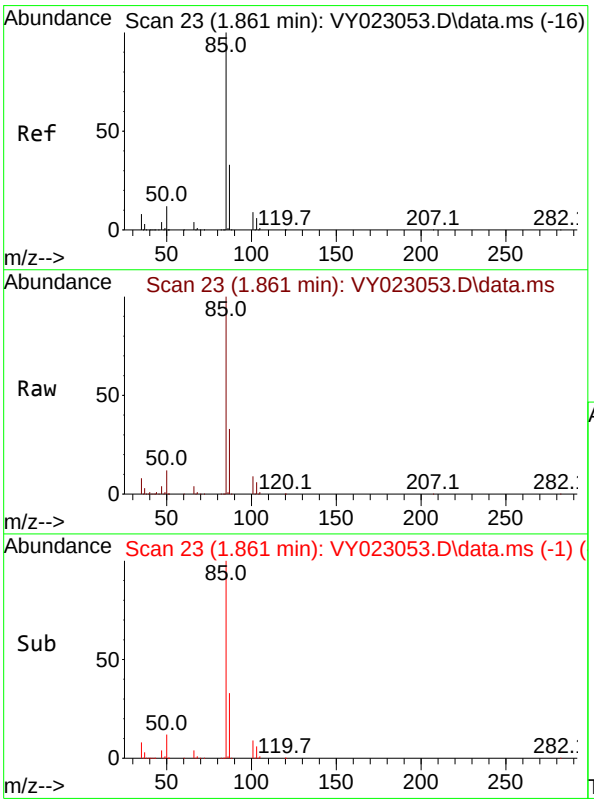
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 53.5 | 42.8 | 64.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

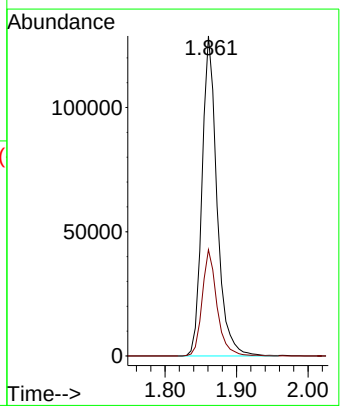


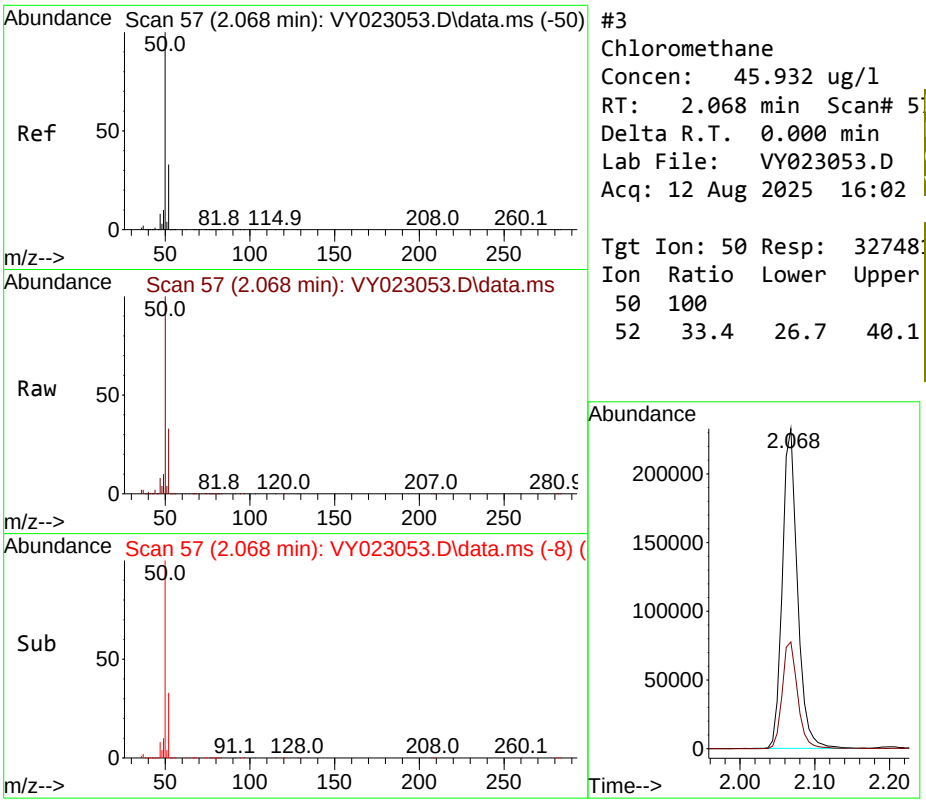




#2
Dichlorodifluoromethane
Concen: 42.677 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 85 Resp: 187863

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.2 | 16.6 | 49.8 |






#3
Chloromethane
Concen: 45.932 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 50 Resp: 32748

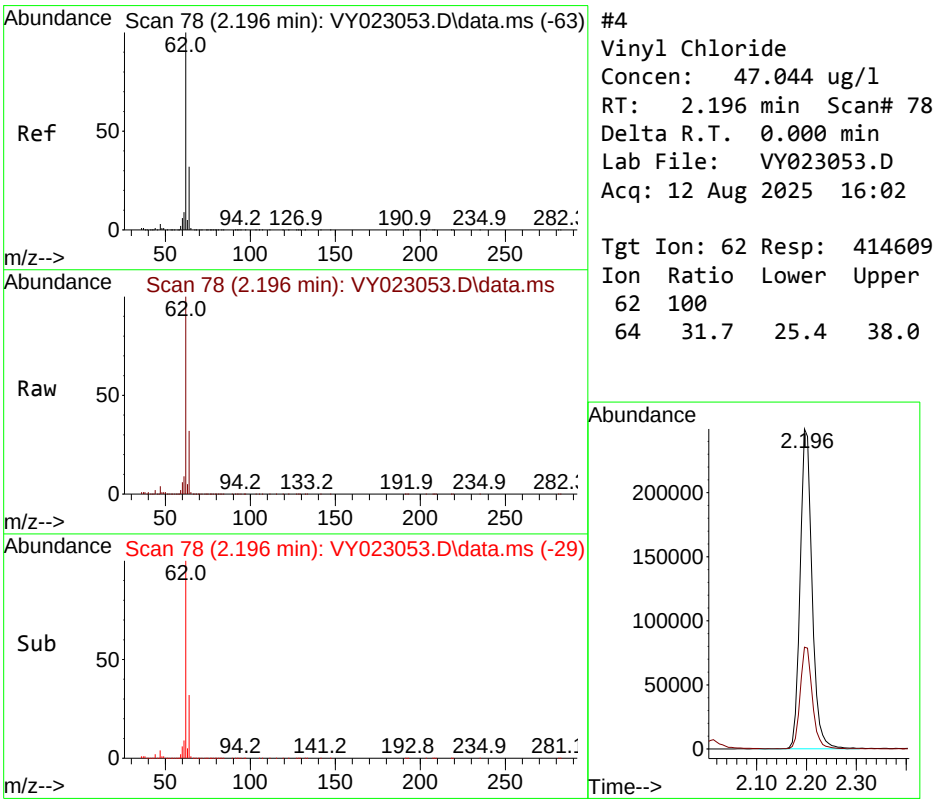
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.4 | 26.7 | 40.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

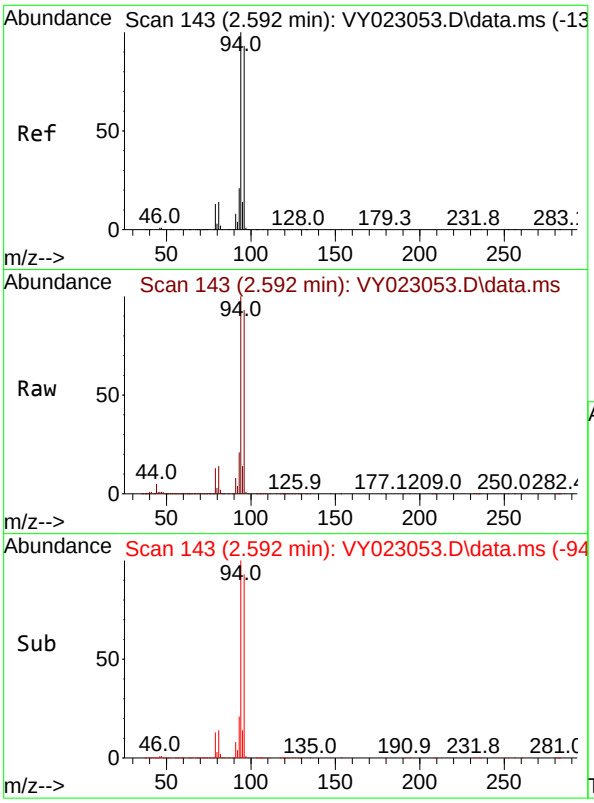



#4
Vinyl Chloride
Concen: 47.044 ug/l
RT: 2.196 min Scan# 78
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 62 Resp: 414609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.7 | 25.4 | 38.0 |




#5
Bromomethane
Concen: 44.263 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

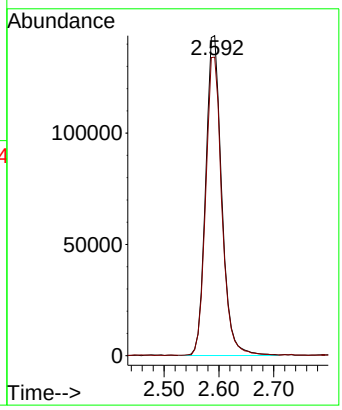
Tgt Ion: 94 Resp: 29133

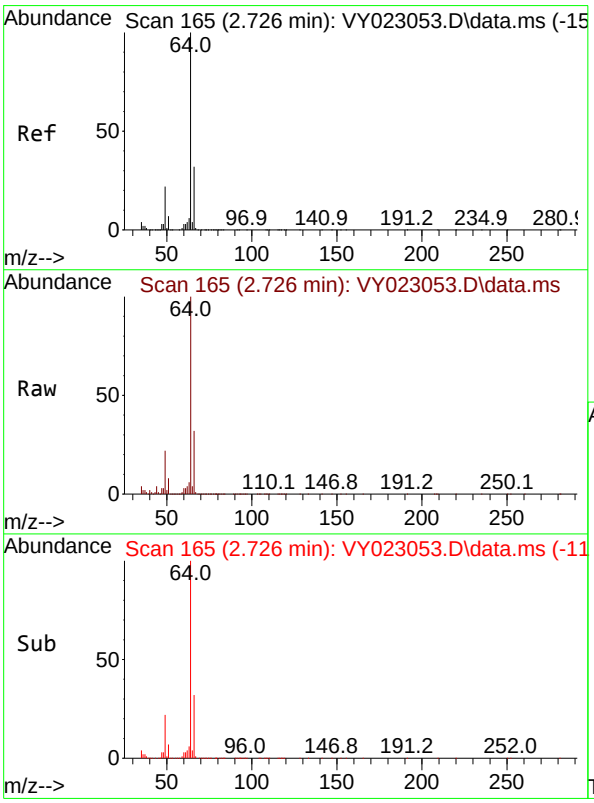
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 93.3 | 74.6 | 112.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

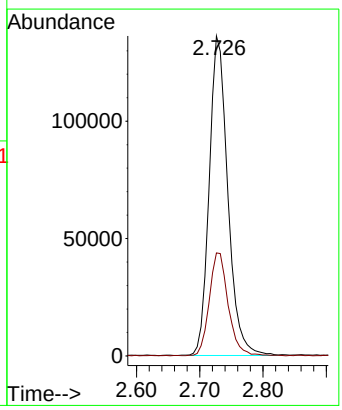


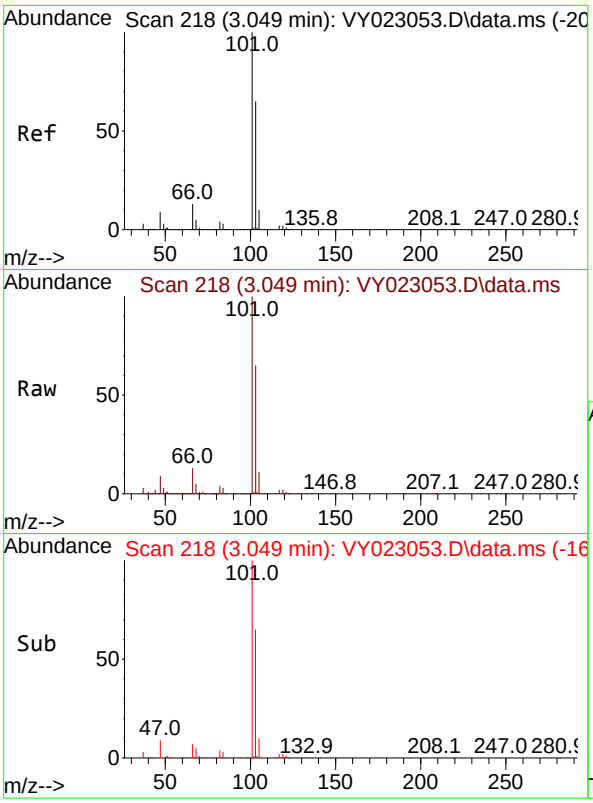




#6
Chloroethane
Concen: 47.394 ug/l
RT: 2.726 min Scan# 165
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 64 Resp: 277698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.2 | 25.8 | 38.6 |

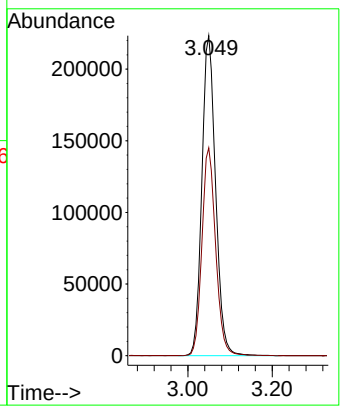





#7
Trichlorofluoromethane
Concen: 47.136 ug/l
RT: 3.049 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:101 Resp: 50513

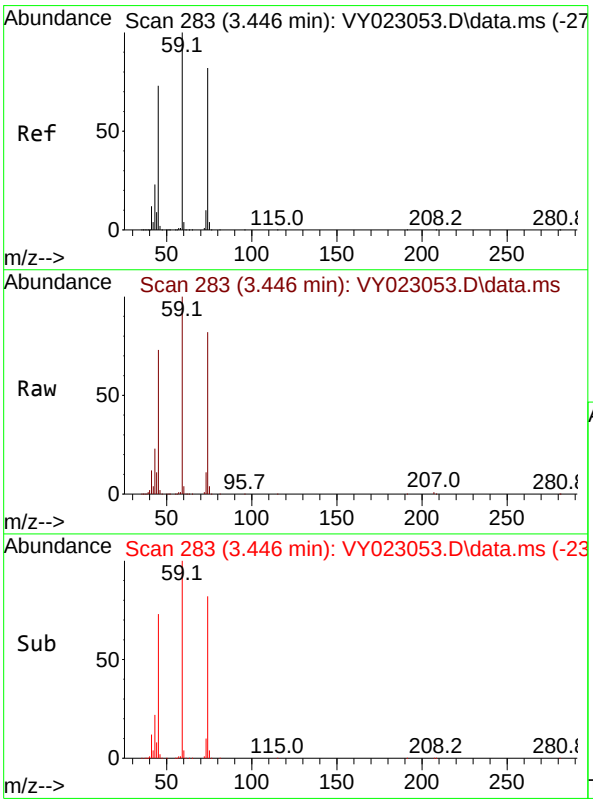
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.9 | 51.9 | 77.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

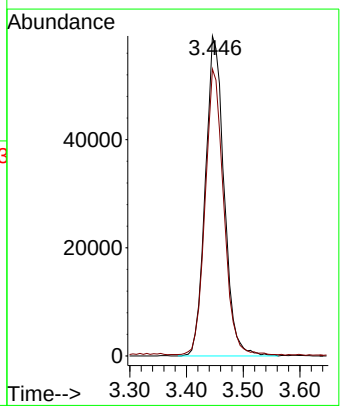
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

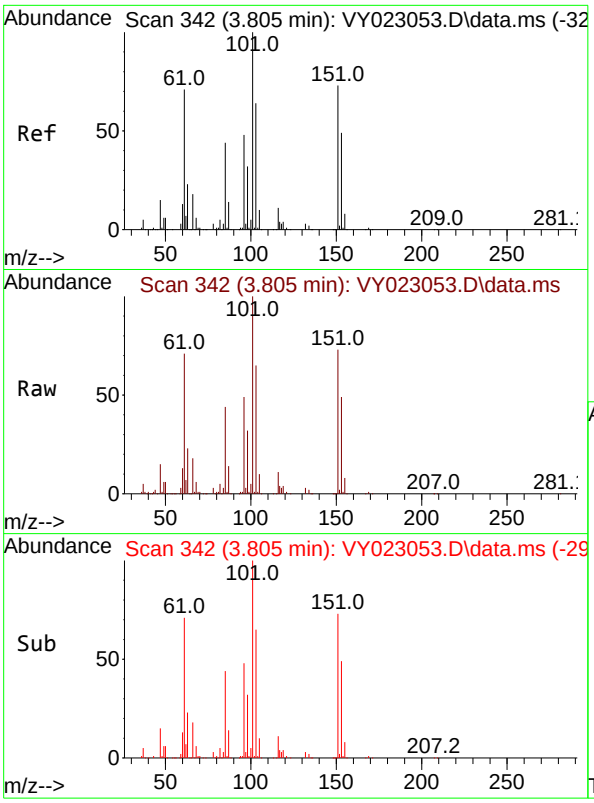



#8
Diethyl Ether
Concen: 47.747 ug/l
RT: 3.446 min Scan# 283
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 74 Resp: 135373

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 88.8 | 44.4 | 133.2 |

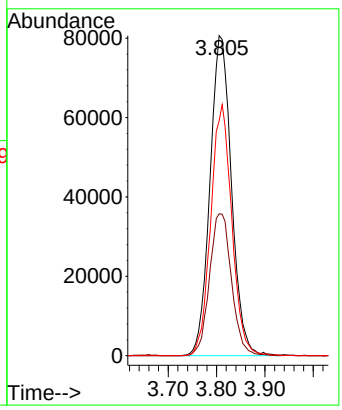





#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.109 ug/l
RT: 3.805 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:101 Resp: 24906

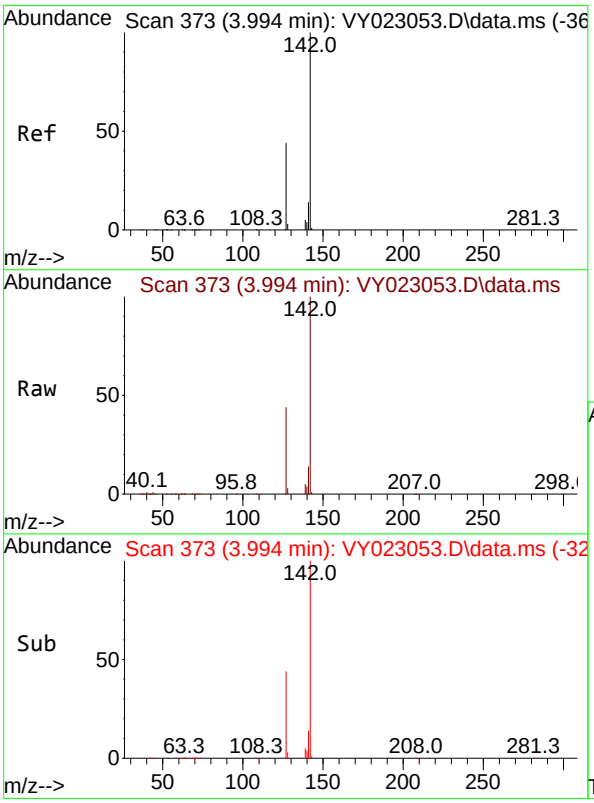
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 45.4 | 36.3 | 54.5 |
| 151 | 76.9 | 61.5 | 92.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

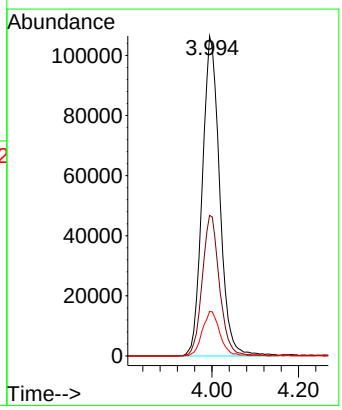
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

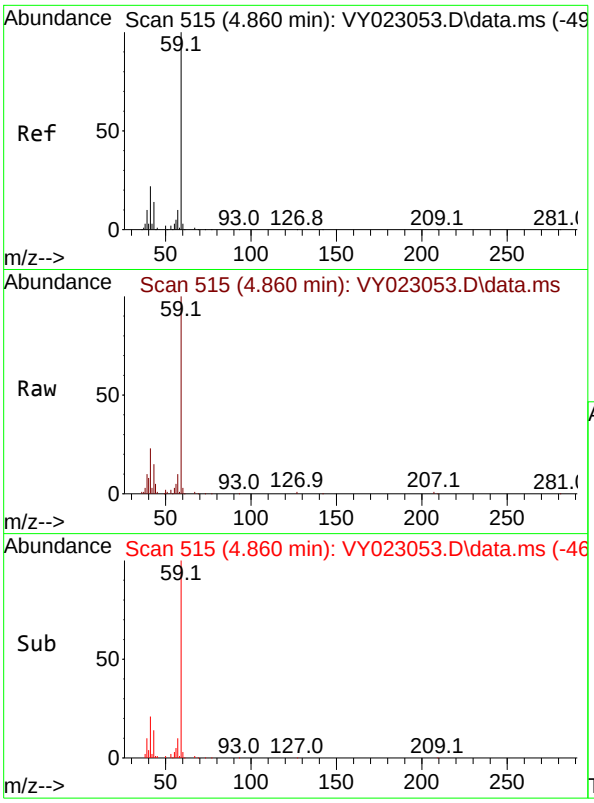



#10
Methyl Iodide
Concen: 51.899 ug/l
RT: 3.994 min Scan# 373
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:142 Resp: 296087

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 43.6 | 34.9 | 52.3 |
| 141 | 14.1 | 11.3 | 16.9 |

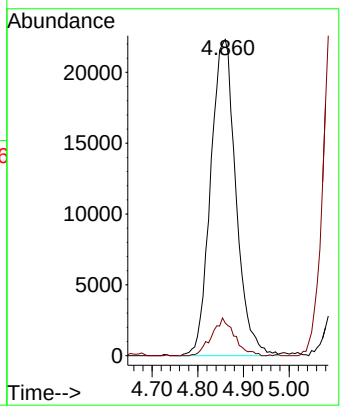





#11
Tert butyl alcohol
Concen: 243.383 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 59 Resp: 8571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.8 | 8.6 | 13.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

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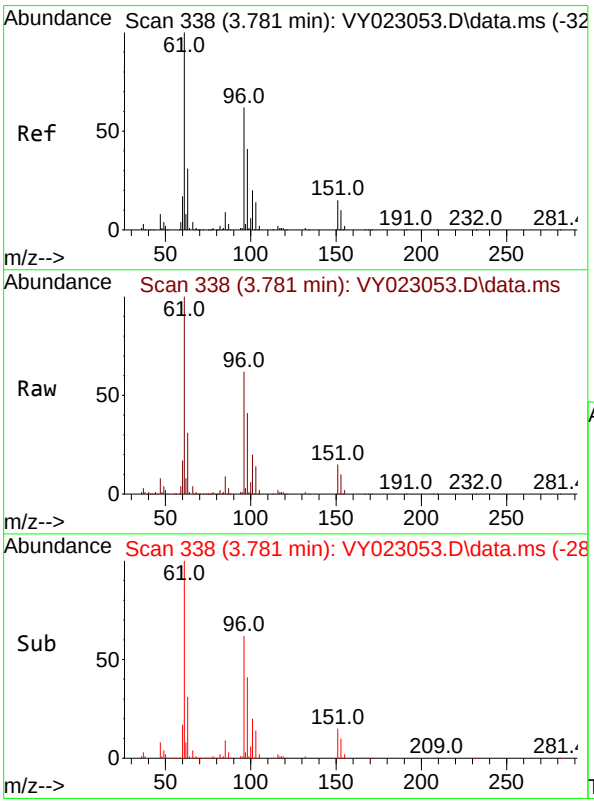
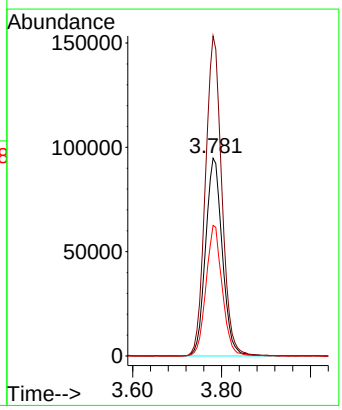
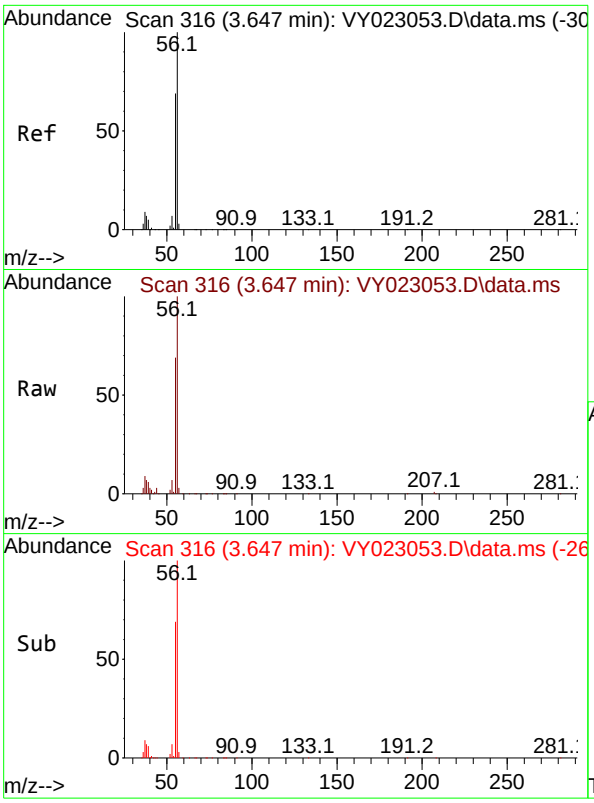



#12
1,1-Dichloroethene
Concen: 48.009 ug/l
RT: 3.781 min Scan# 338
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 96 Resp: 249492

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 161.8 | 129.4 | 194.2 |
| 98 | 66.0 | 52.8 | 79.2 |






#13
Acrolein
Concen: 234.966 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 56 Resp: 12118

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 69.0 | 55.2 | 82.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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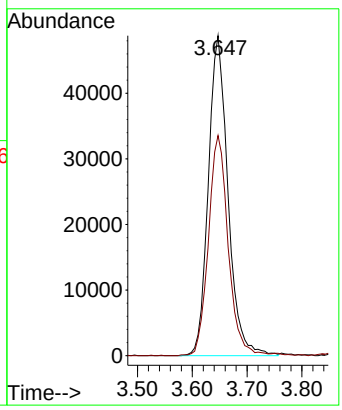
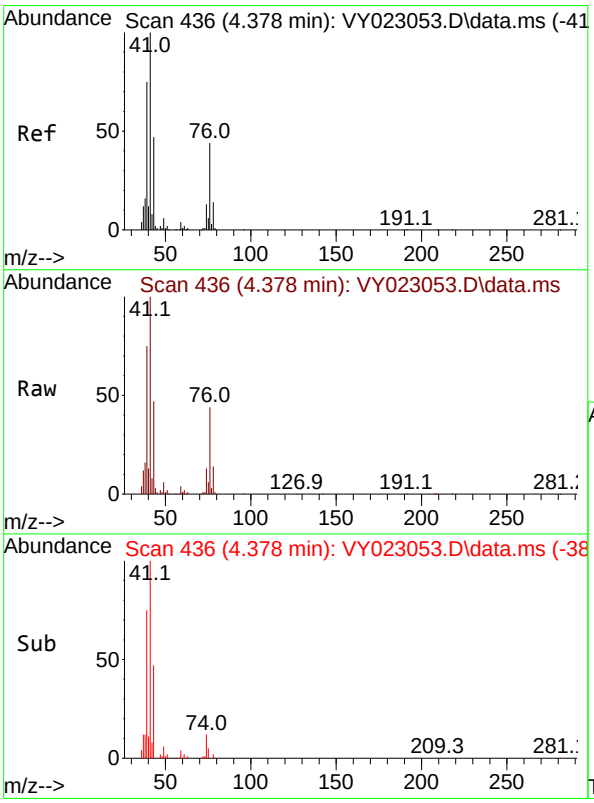
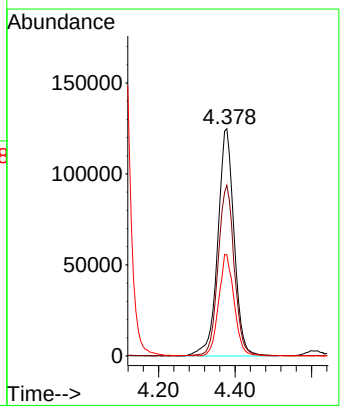


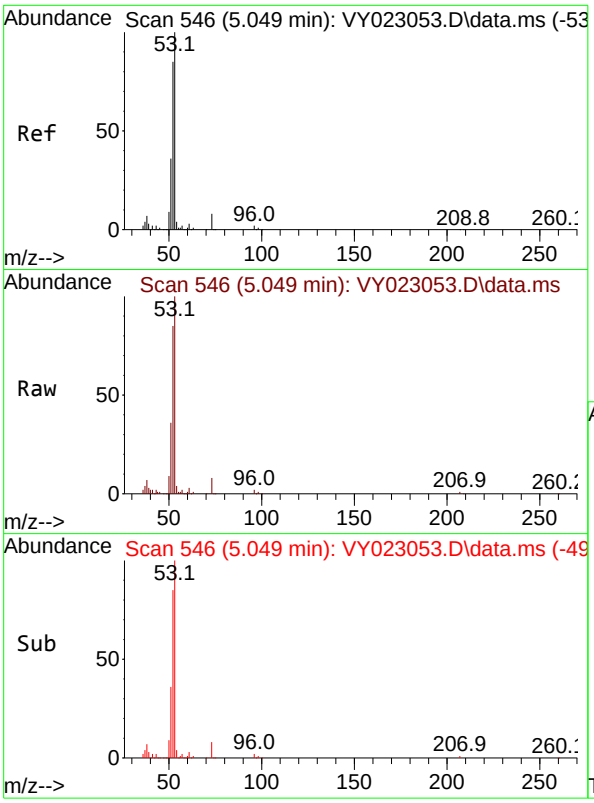




#14
Allyl chloride
Concen: 48.350 ug/l
RT: 4.378 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 41 Resp: 369720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 74.7 | 59.8 | 89.6 |
| 76 | 42.1 | 33.7 | 50.5 |






#15
Acrylonitrile
Concen: 247.839 ug/l
RT: 5.049 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 53 Resp: 28567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.6 | 65.3 | 97.9 |
| 51 | 36.9 | 29.5 | 44.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

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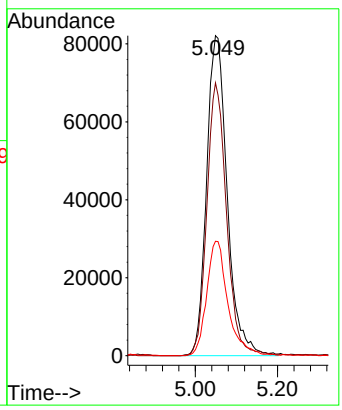
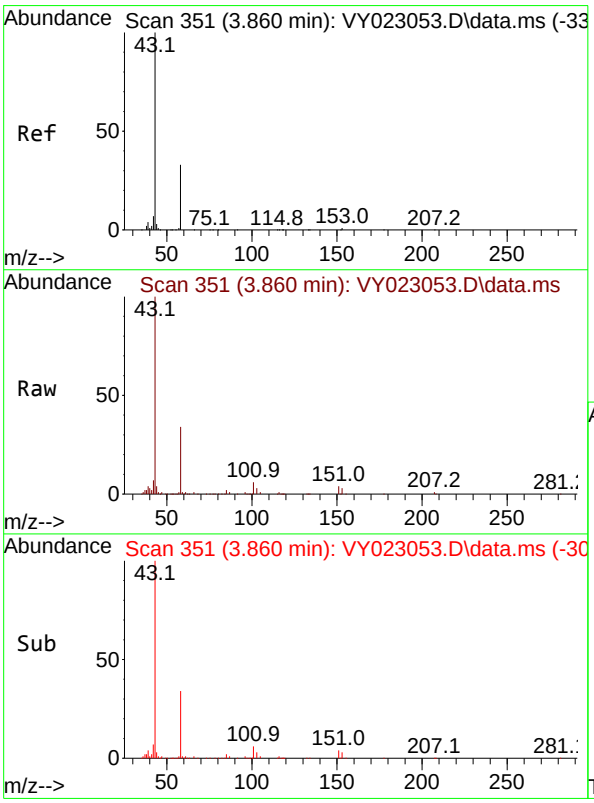
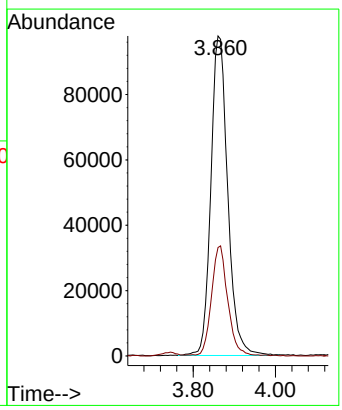


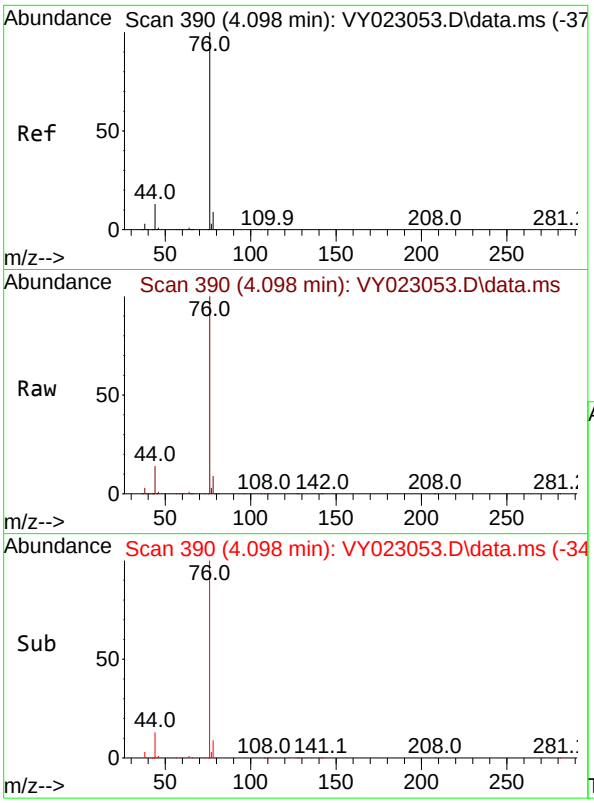




#16
Acetone
Concen: 250.122 ug/l
RT: 3.860 min Scan# 351
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 43 Resp: 278510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.9 | 27.1 | 40.7 |






#17
Carbon Disulfide
Concen: 47.456 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

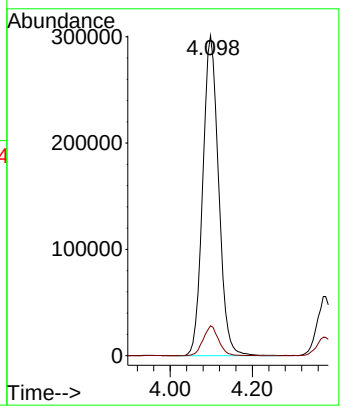
Tgt Ion: 76 Resp: 80411

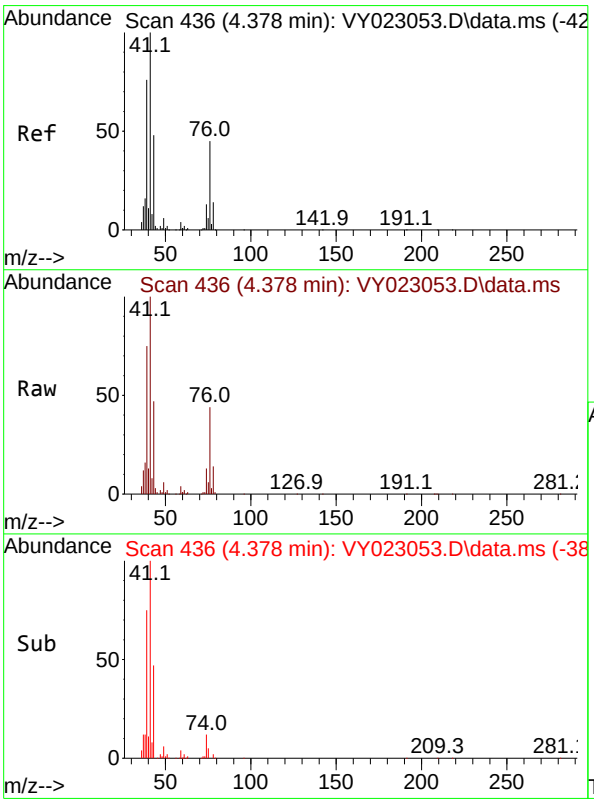
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.3 | 7.4 | 11.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

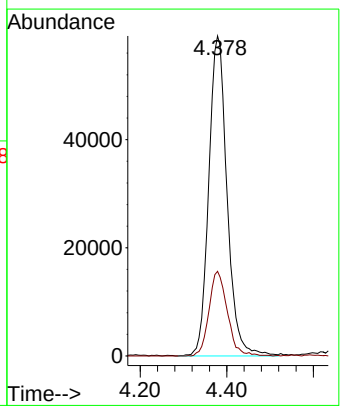


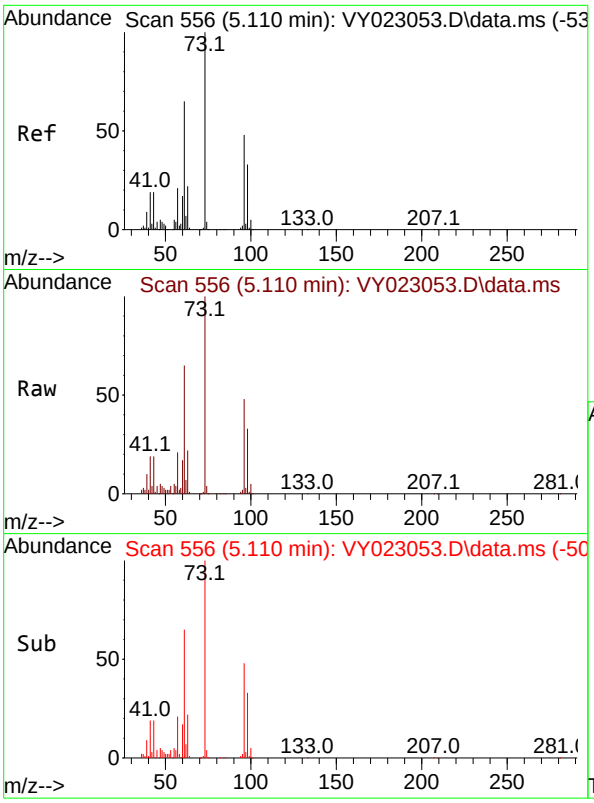




#18
Methyl Acetate
Concen: 52.403 ug/l
RT: 4.378 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 43 Resp: 173642

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 26.5 | 21.2 | 31.8 |

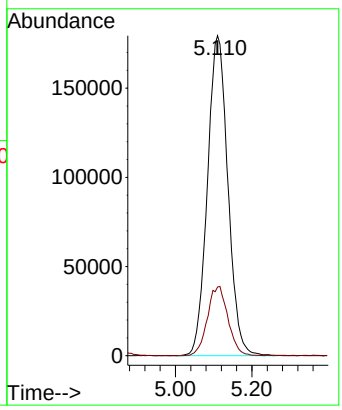





#19
Methyl tert-butyl Ether
Concen: 49.495 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 73 Resp: 66651

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.4 | 17.1 | 25.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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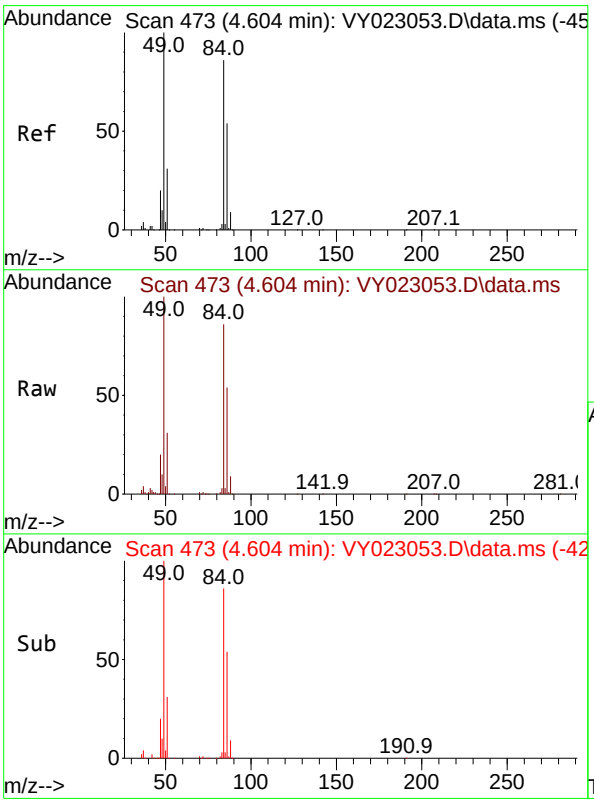
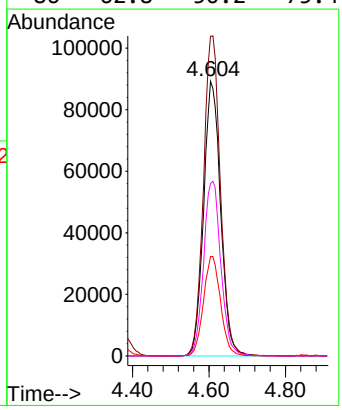
Supervised By :Semsettin Yesilyurt 08/14/2025

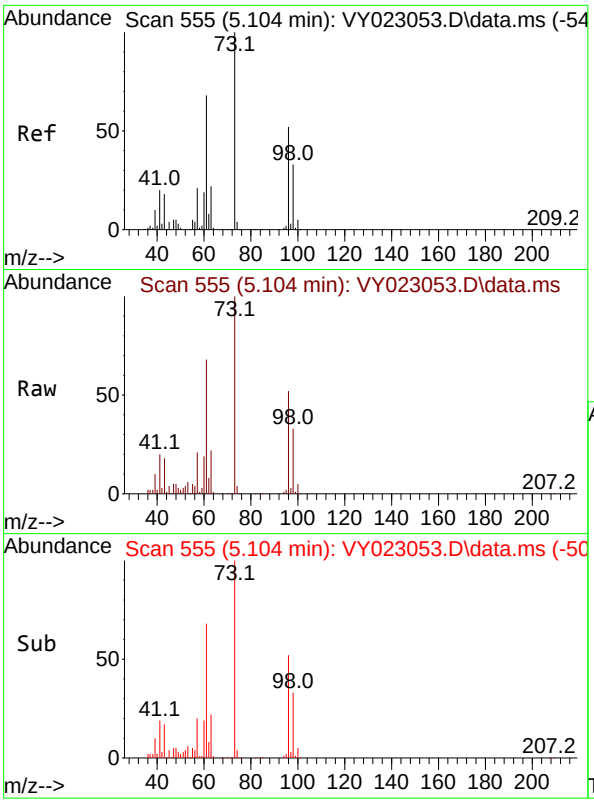



#20
Methylene Chloride
Concen: 47.415 ug/l
RT: 4.604 min Scan# 473
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 84 Resp: 275004

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 116.3 | 93.0 | 139.6 |
| 51 | 36.2 | 29.0 | 43.4 |
| 86 | 62.8 | 50.2 | 75.4 |

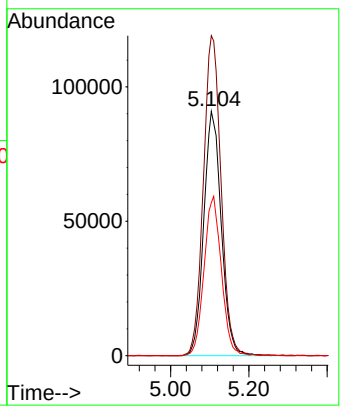





#21
trans-1,2-Dichloroethene
Concen: 48.334 ug/l
RT: 5.104 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 96 Resp: 28227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 131.0 | 104.8 | 157.2 |
| 98 | 62.6 | 50.1 | 75.1 |

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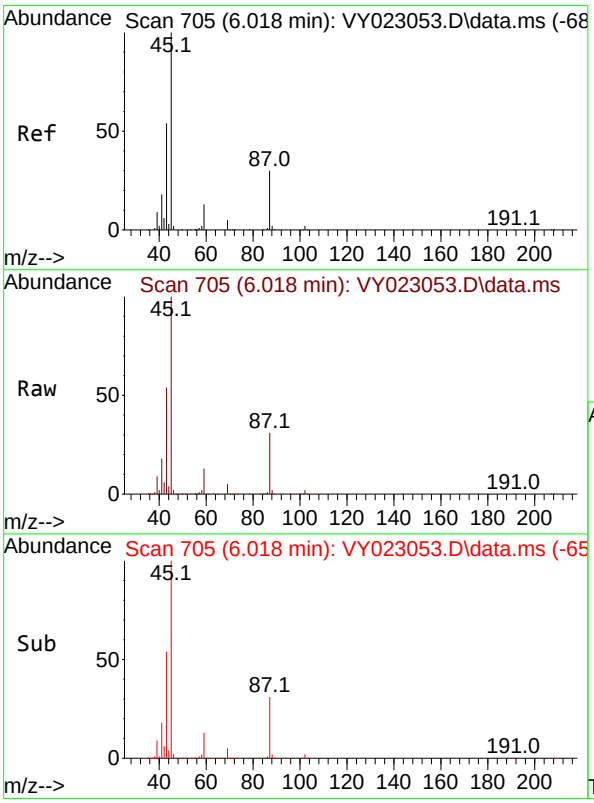
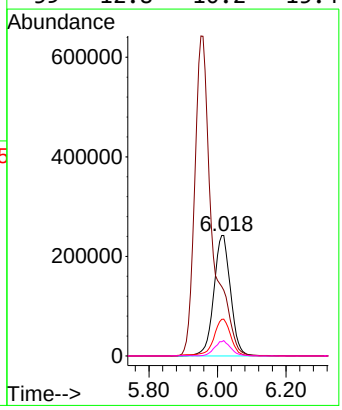
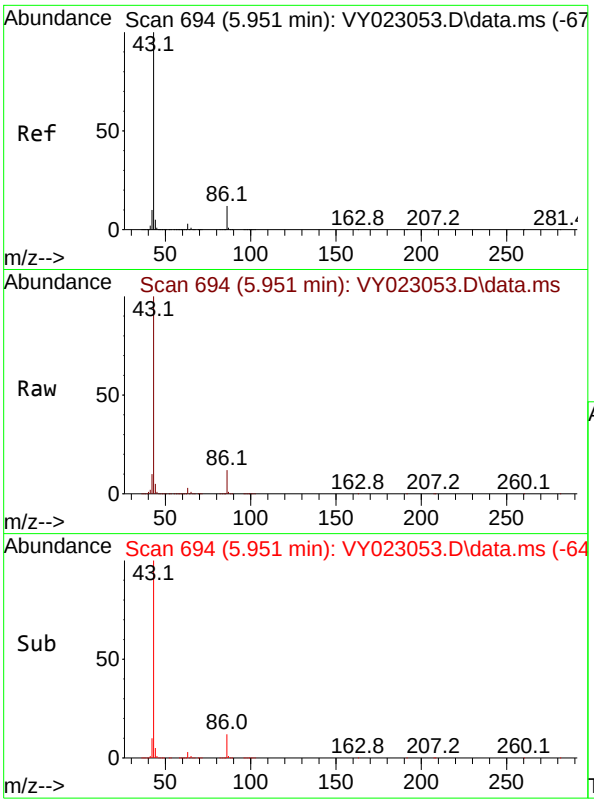



#22
Diisopropyl ether
Concen: 49.070 ug/l
RT: 6.018 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 45 Resp: 815359

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 54.2 | 43.4 | 65.0 |
| 87 | 30.5 | 24.4 | 36.6 |
| 59 | 12.8 | 10.2 | 15.4 |

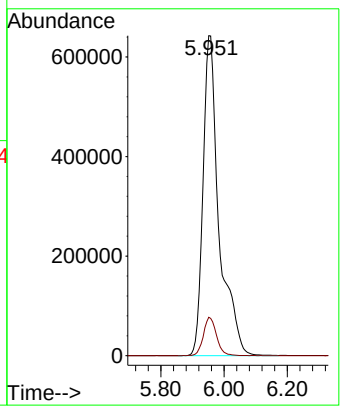





#23
Vinyl Acetate
Concen: 246.849 ug/l
RT: 5.951 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 43 Resp: 226804

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 12.0 | 9.6 | 14.4 |

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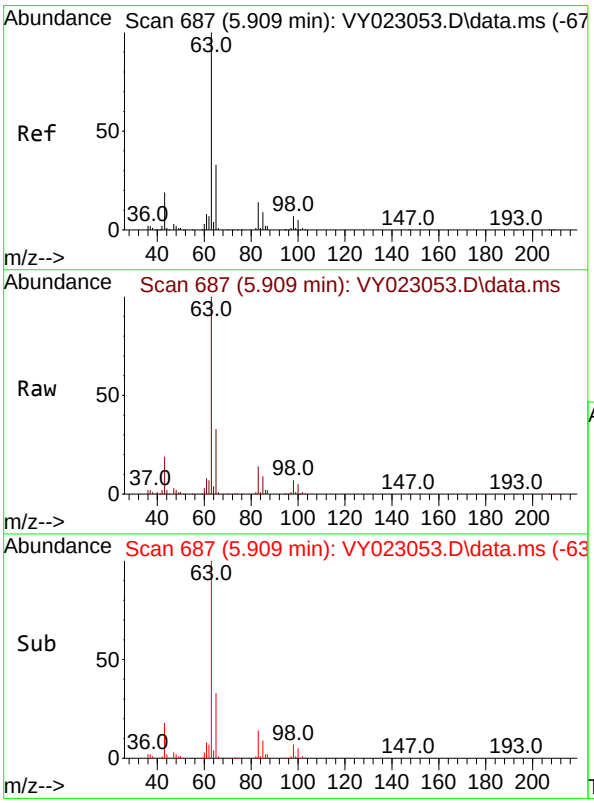
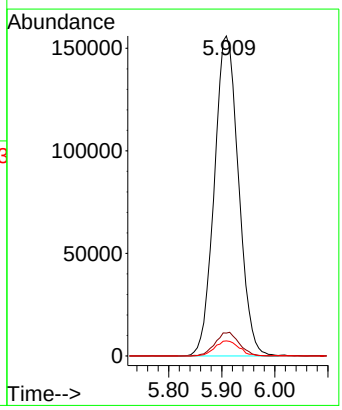
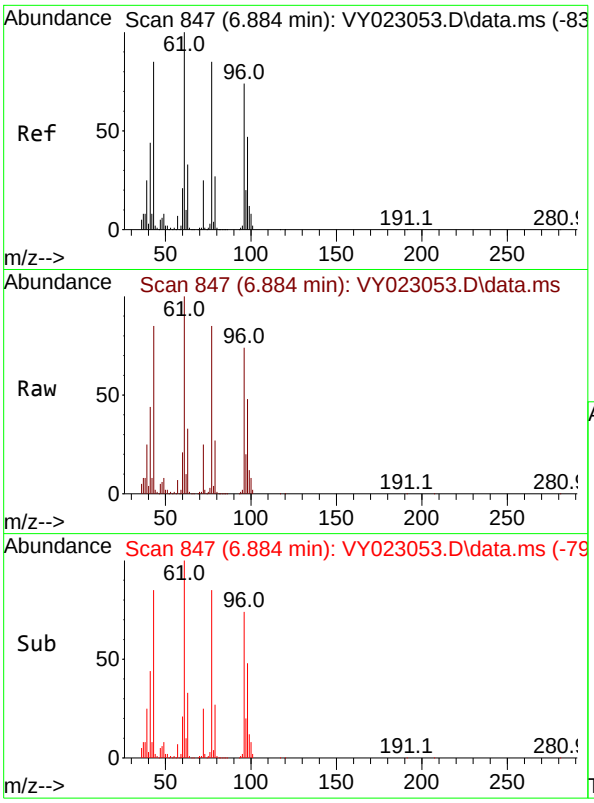



#24
1,1-Dichloroethane
Concen: 48.732 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 63 Resp: 495073

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.1 | 3.5 | 10.6 |
| 100 | 4.7 | 2.4 | 7.1 |

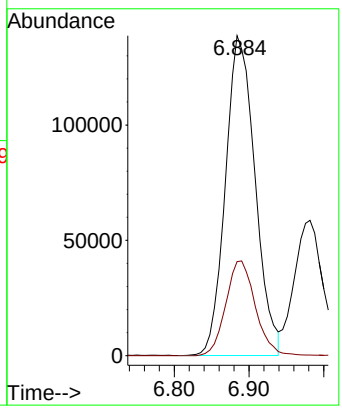





#25
2-Butanone
Concen: 252.715 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 43 Resp: 38271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 29.4 | 23.5 | 35.3 |




**Instrument :**
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VSTDICCC050

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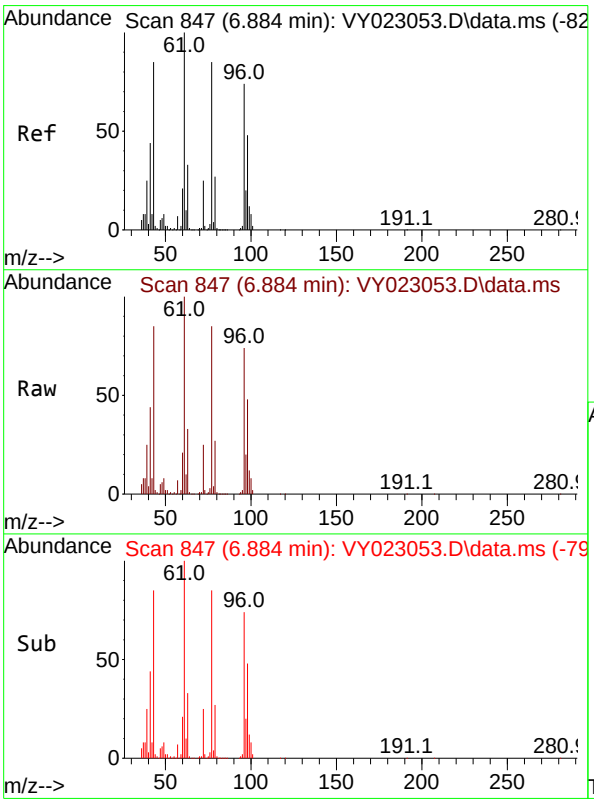
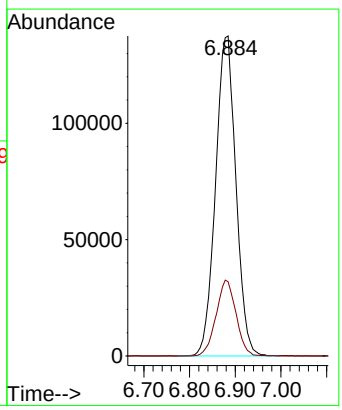
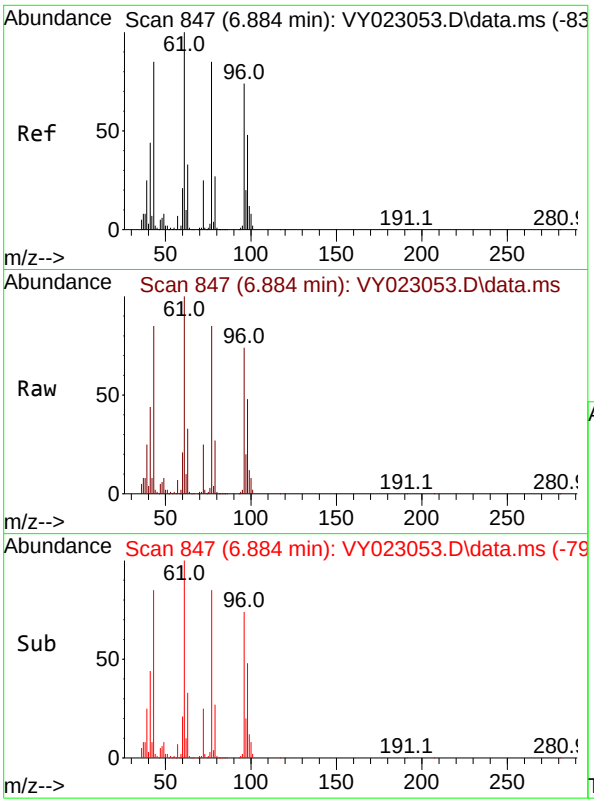



#26
2,2-Dichloropropane
Concen: 48.571 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 77 Resp: 425773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.2 | 11.6 | 34.8 |

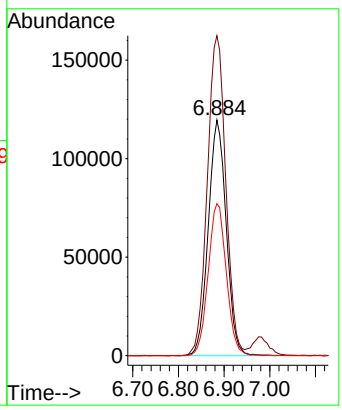





#27
cis-1,2-Dichloroethene
Concen: 48.474 ug/l
RT: 6.884 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 96 Resp: 32727

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 139.3 | 0.0 | 278.6 |
| 98 | 65.2 | 0.0 | 130.4 |




**Instrument :**
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VSTDICCC050

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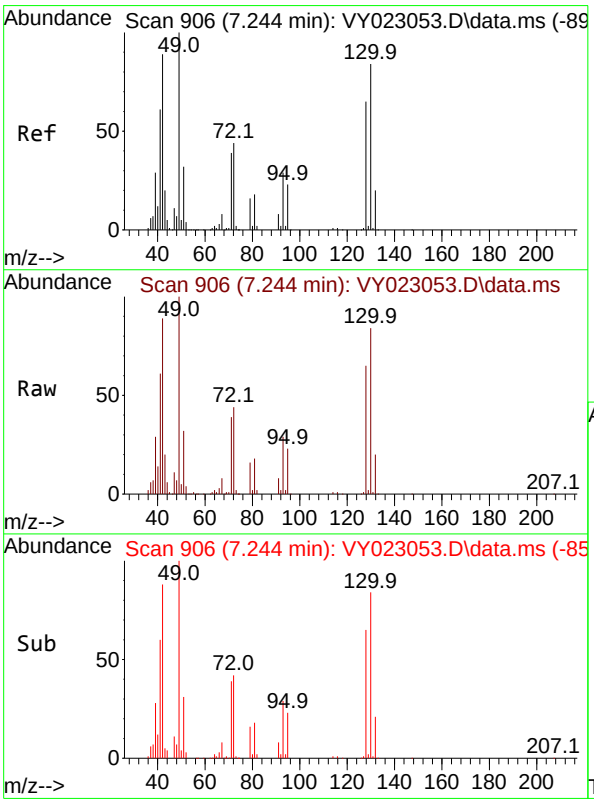
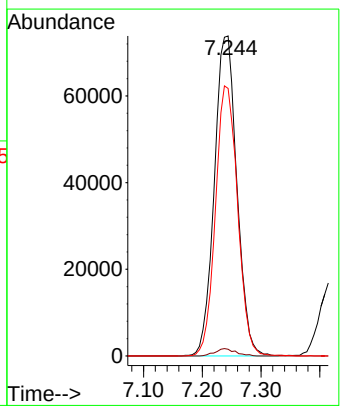
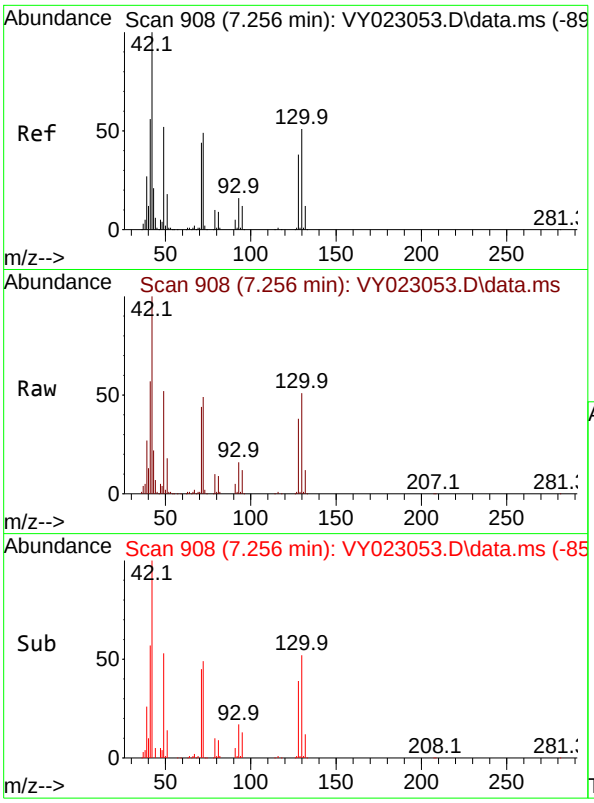



#28
Bromochloromethane
Concen: 48.795 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 49 Resp: 196667

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.1 | 0.0 | 4.2 |
| 130 | 83.0 | 66.4 | 99.6 |

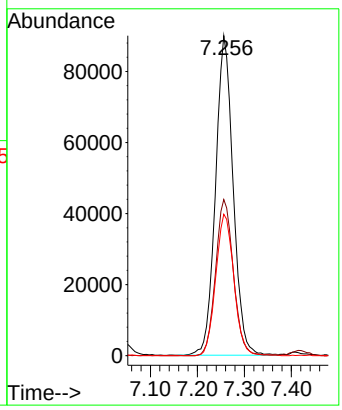





#29
Tetrahydrofuran
Concen: 250.523 ug/l
RT: 7.256 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 42 Resp: 23516

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 49.3 | 39.4 | 59.2 |
| 71 | 45.6 | 36.5 | 54.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

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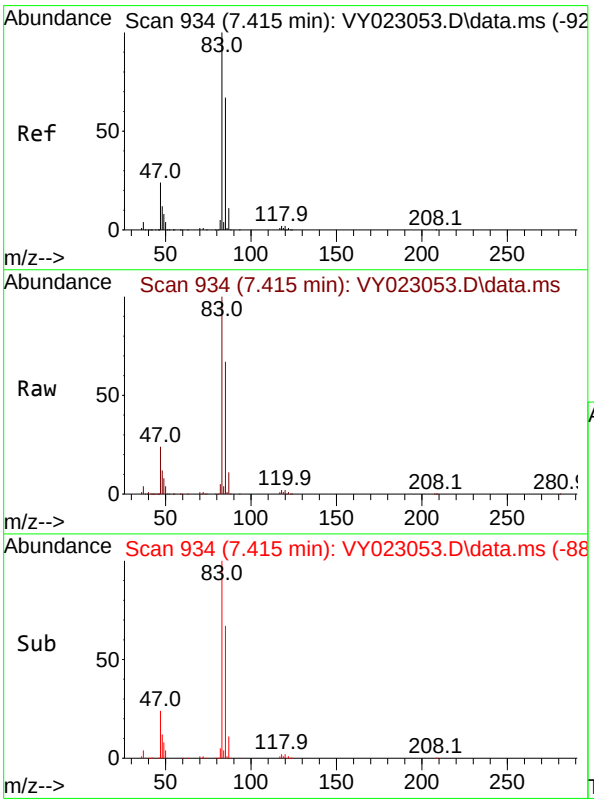
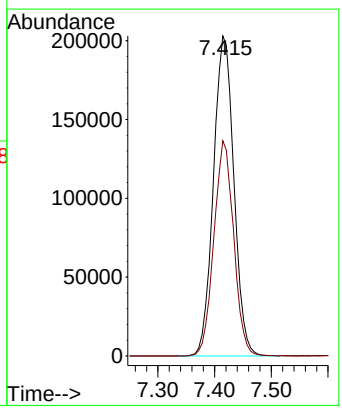
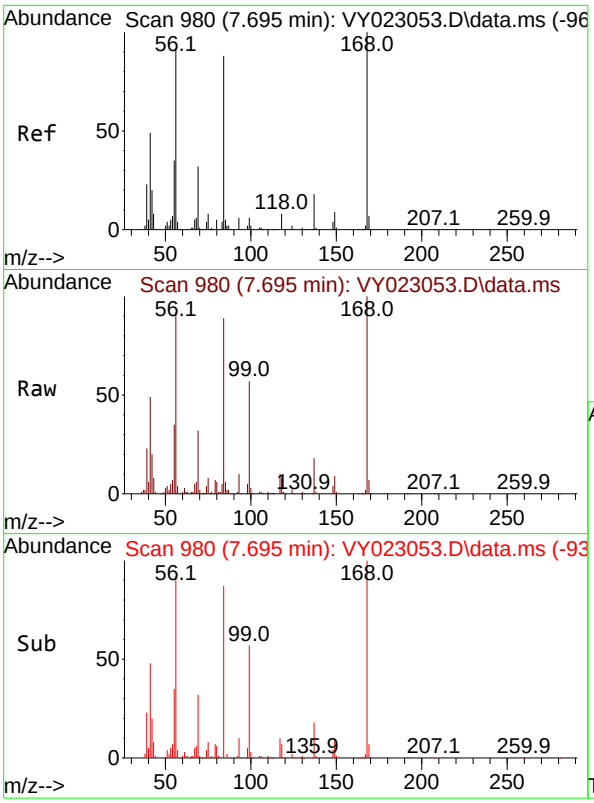



#30
Chloroform
Concen: 48.547 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 83 Resp: 508641

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 67.3 | 53.8 | 80.8 |

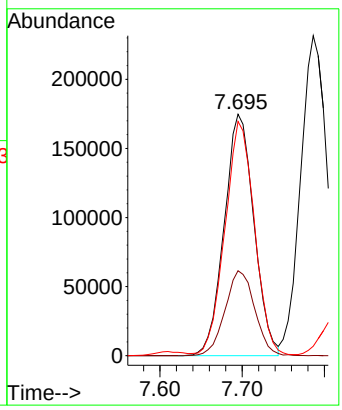





#31
Cyclohexane
Concen: 45.989 ug/l
RT: 7.695 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 56 Resp: 44026

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 35.2 | 28.2 | 42.2 |
| 84 | 95.7 | 76.6 | 114.8 |

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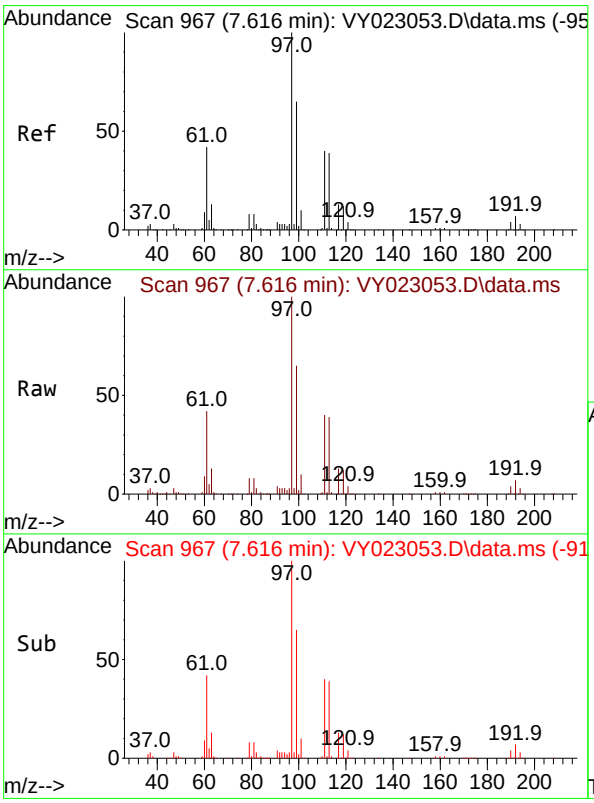
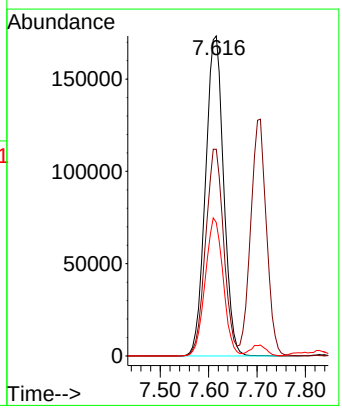
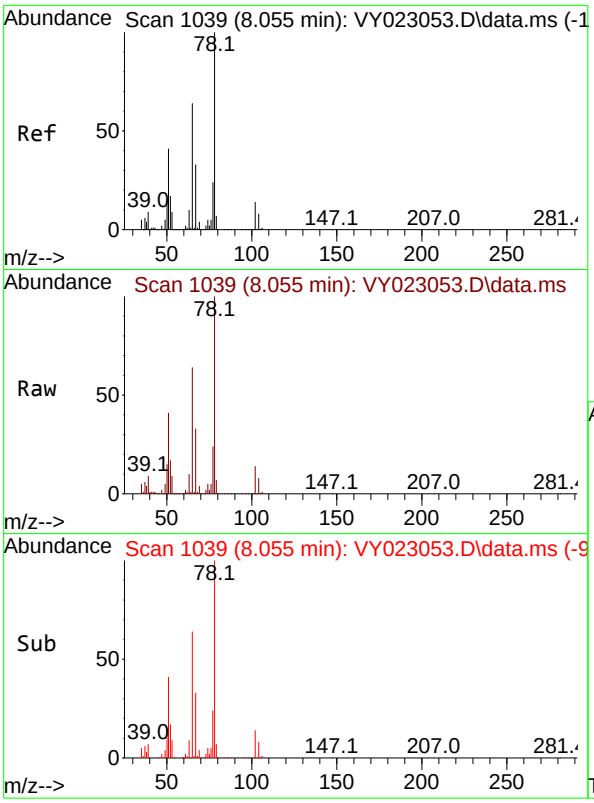



#32
1,1,1-Trichloroethane
Concen: 48.569 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 97 Resp: 451521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.5 | 51.6 | 77.4 |
| 61 | 42.7 | 34.2 | 51.2 |

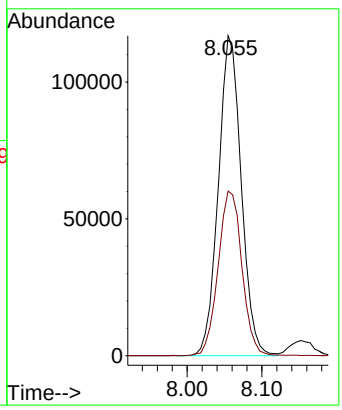





#33
1,2-Dichloroethane-d4
Concen: 48.455 ug/l
RT: 8.055 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 65 Resp: 24904

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.4 | 0.0 | 106.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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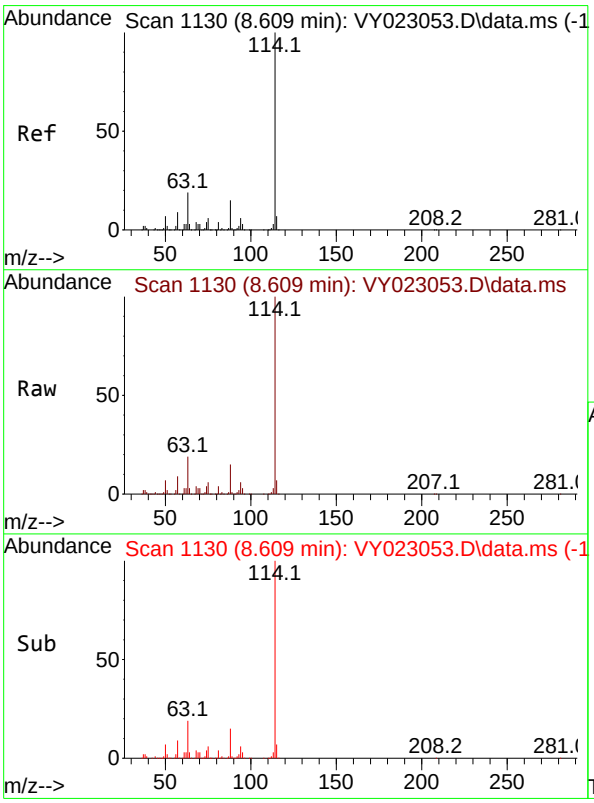
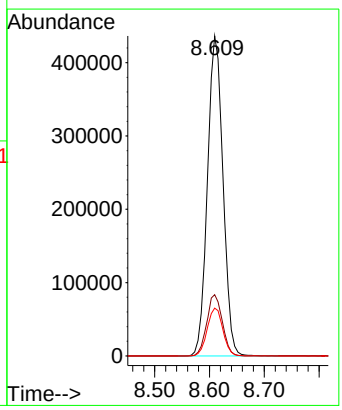
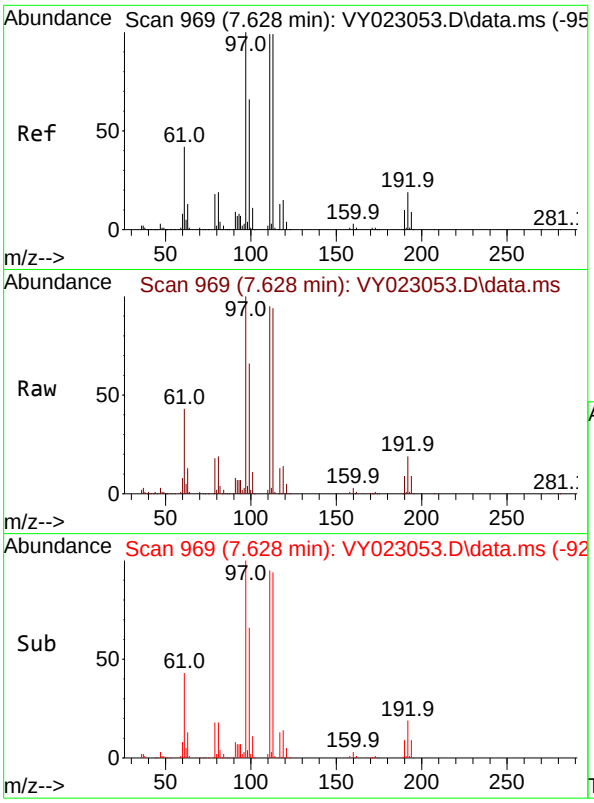



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:114 Resp: 856556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.2 | 0.0 | 38.4 |
| 88 | 15.0 | 0.0 | 30.0 |

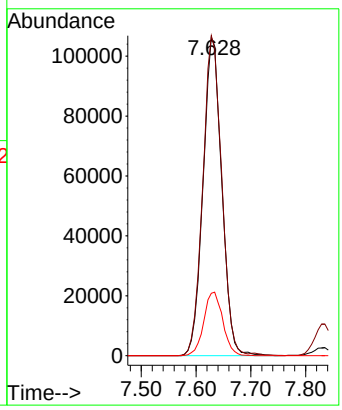





#35
Dibromofluoromethane
Concen: 49.010 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:113 Resp: 25119

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.4 | 81.1 | 121.7 |
| 192 | 20.3 | 16.2 | 24.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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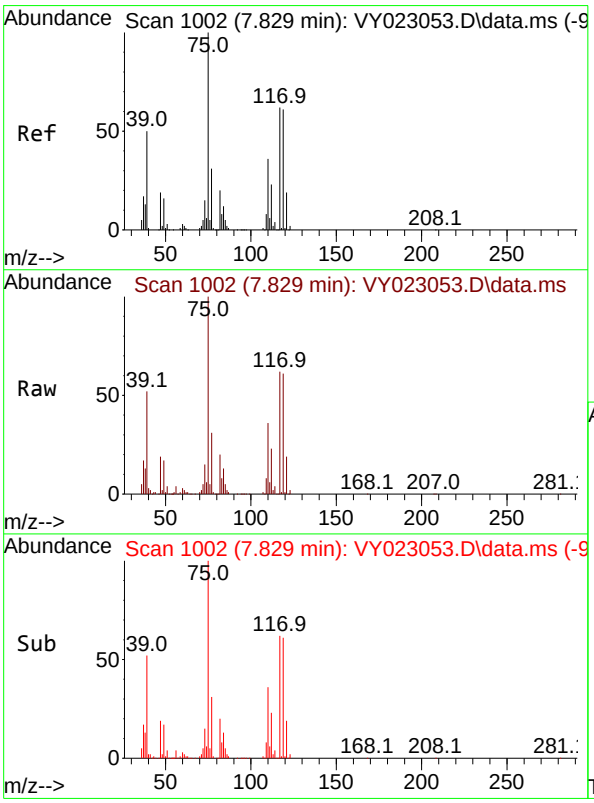
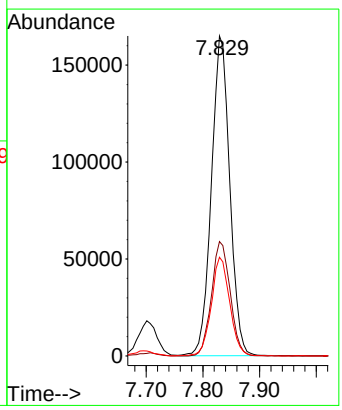
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

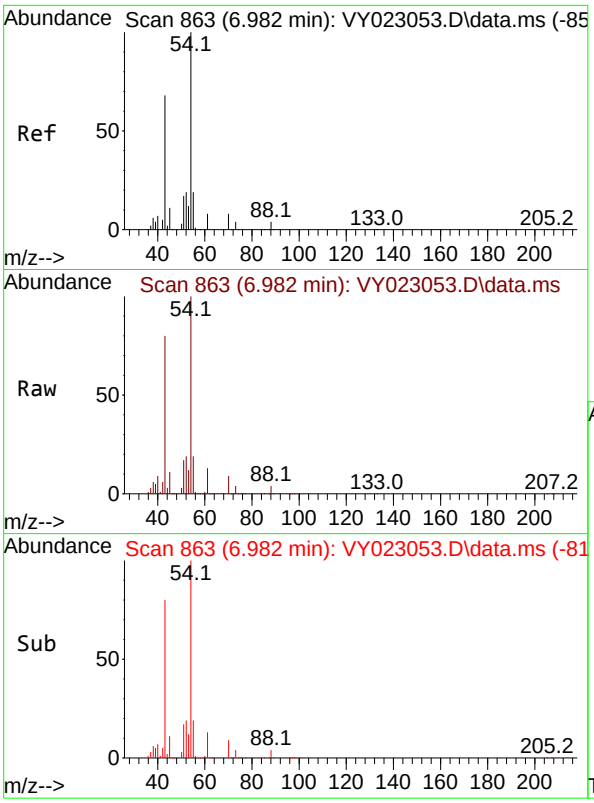



#36
1,1-Dichloropropene
Concen: 48.734 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 75 Resp: 371204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 36.3 | 18.1 | 54.4 |
| 77 | 30.8 | 24.6 | 37.0 |






#37
Ethyl Acetate
Concen: 50.311 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 43 Resp: 16098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.9 | 11.9 | 17.9 |
| 70 | 11.0 | 8.8 | 13.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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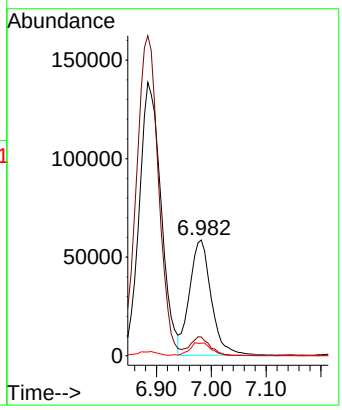
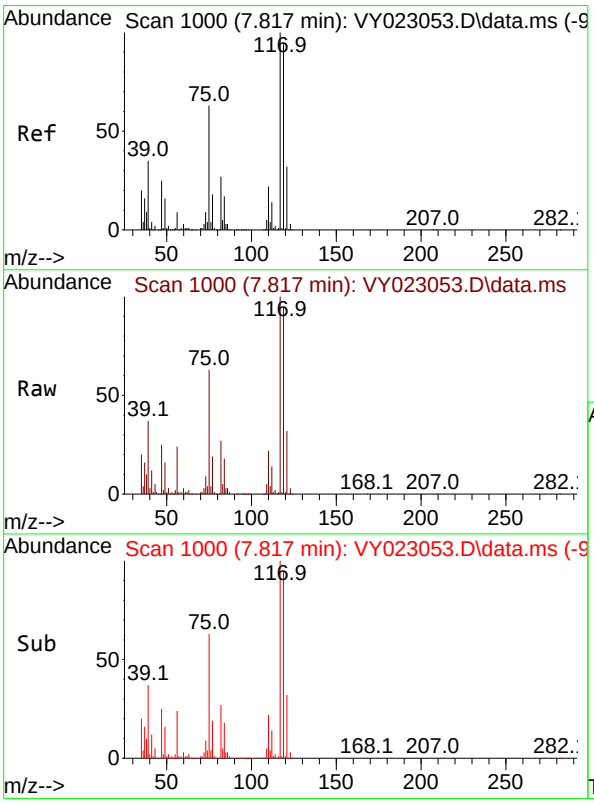
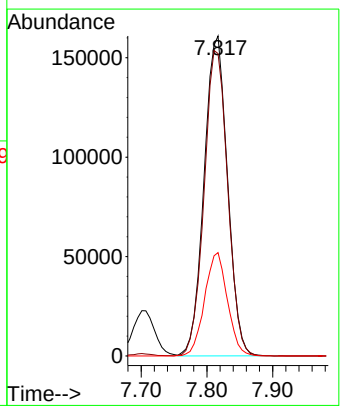


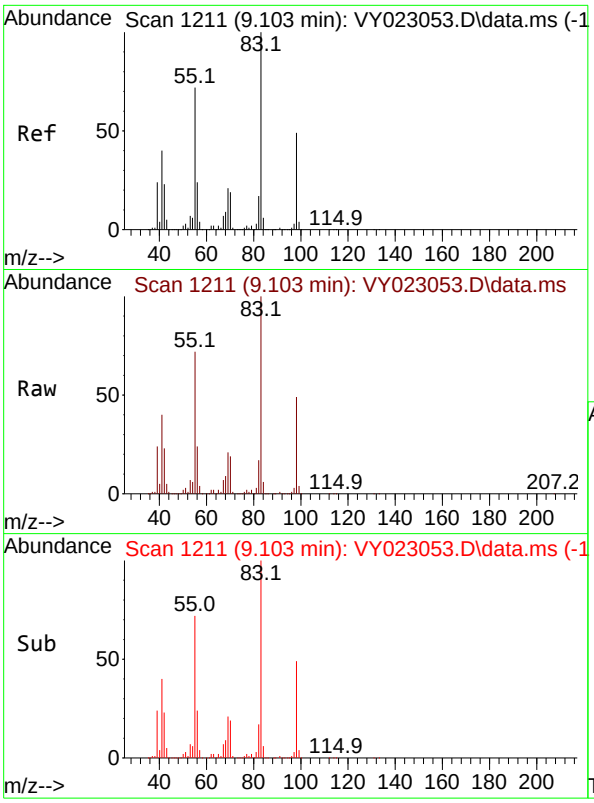




#38
Carbon Tetrachloride
Concen: 48.285 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:117 Resp: 399463

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.5 | 75.6 | 113.4 |
| 121 | 32.3 | 25.8 | 38.8 |






#39
Methylcyclohexane
Concen: 48.321 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 83 Resp: 48469

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 72.0 | 57.6 | 86.4 |
| 98 | 49.0 | 39.2 | 58.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

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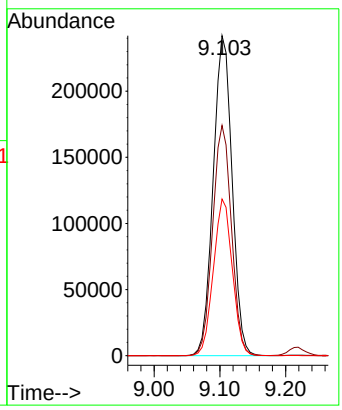
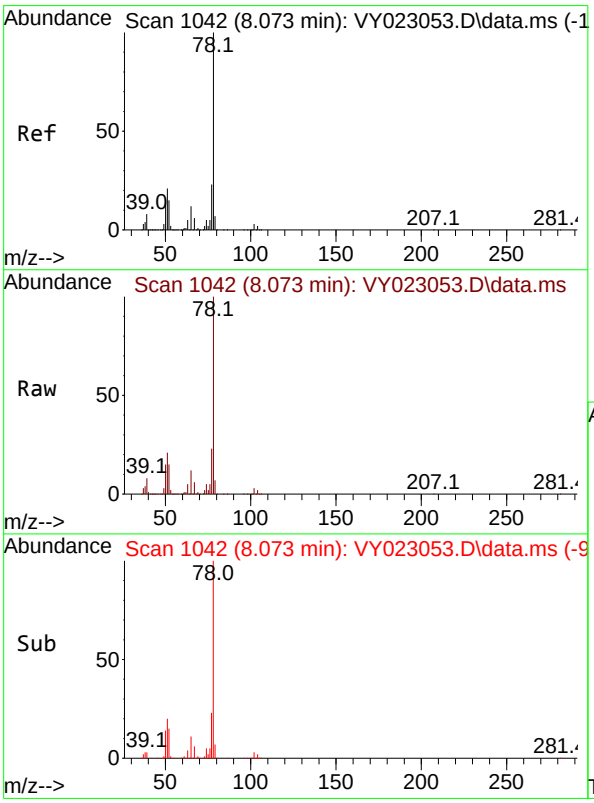
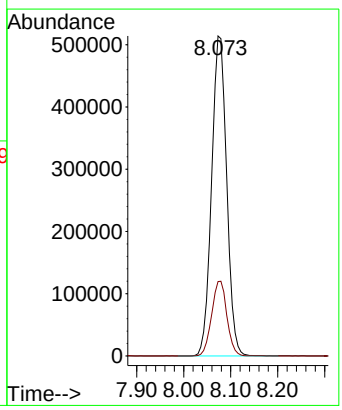


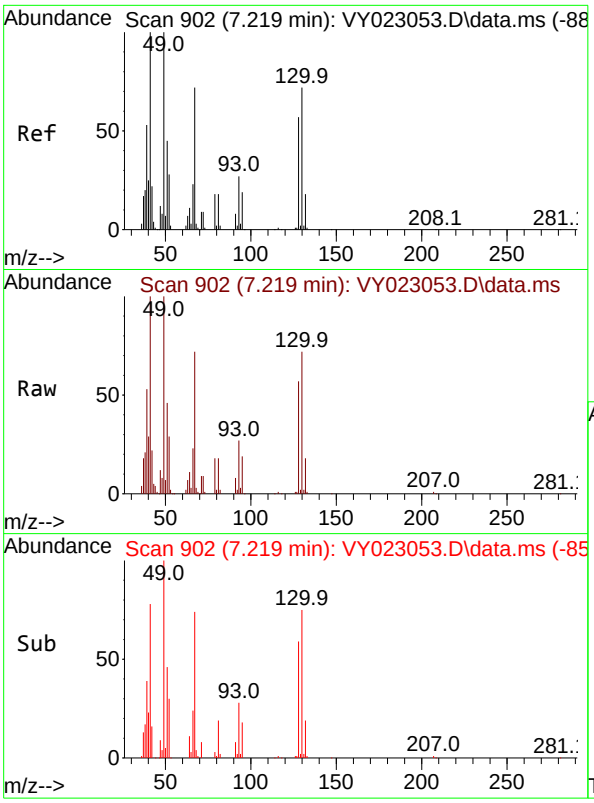




#40
Benzene
Concen: 48.683 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 78 Resp: 1142910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.3 | 18.6 | 28.0 |

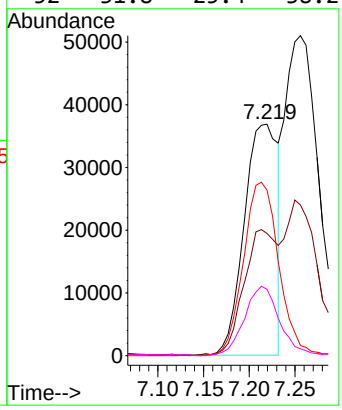





#41
Methacrylonitrile
Concen: 50.916 ug/l
RT: 7.219 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 41 Resp: 9412

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 54.3 | 43.4 | 65.2 |
| 67 | 79.5 | 63.6 | 95.4 |
| 52 | 31.8 | 25.4 | 38.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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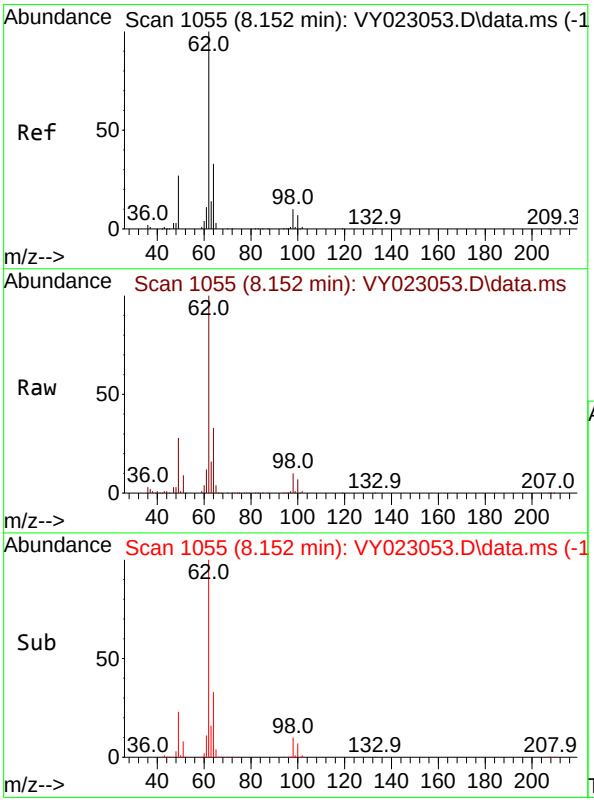
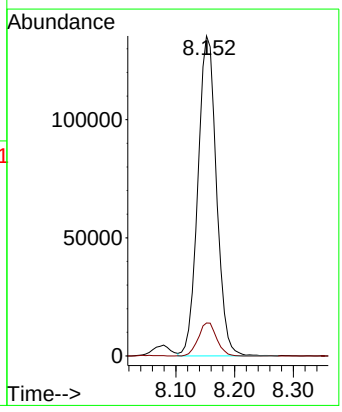
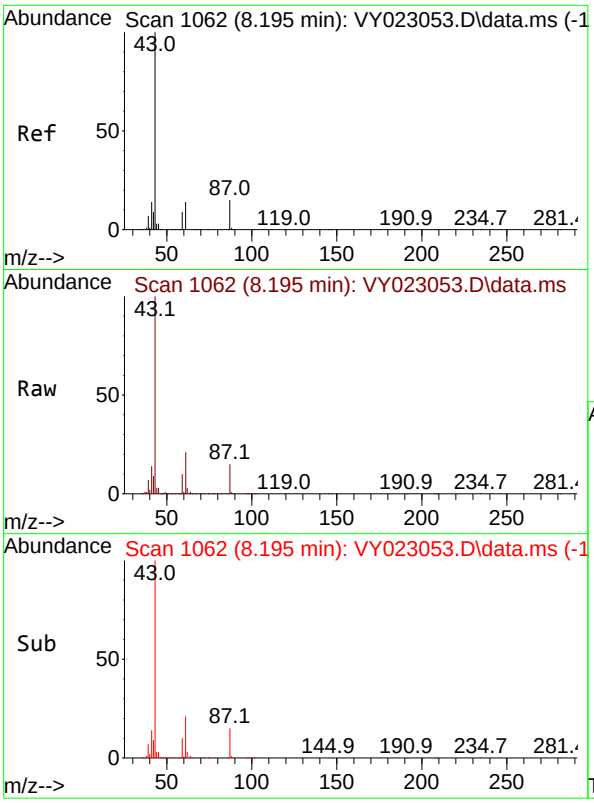



#42
1,2-Dichloroethane
Concen: 48.627 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 62 Resp: 296907

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.3 | 0.0 | 20.6 |






#43
Isopropyl Acetate
Concen: 49.419 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 43 Resp: 31960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 20.5 | 16.4 | 24.6 |
| 87 | 14.7 | 11.8 | 17.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

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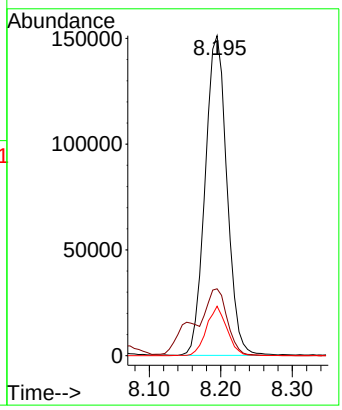
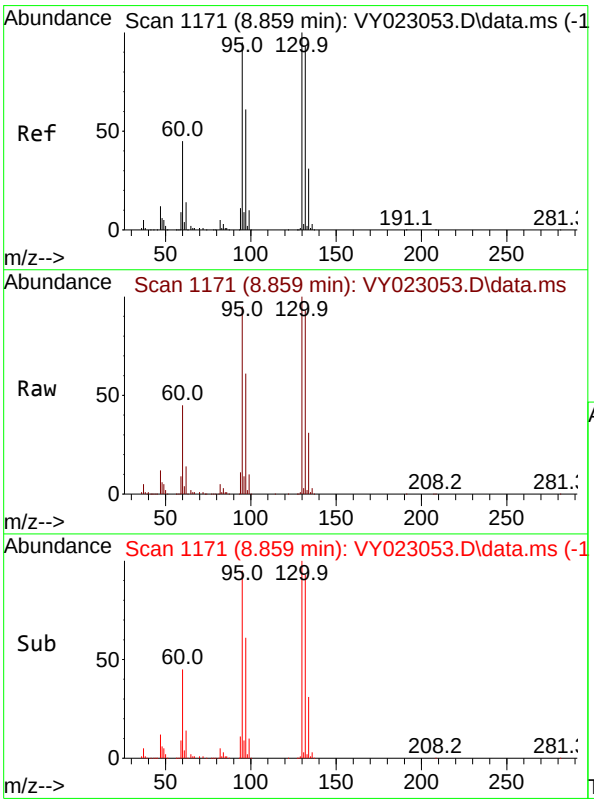
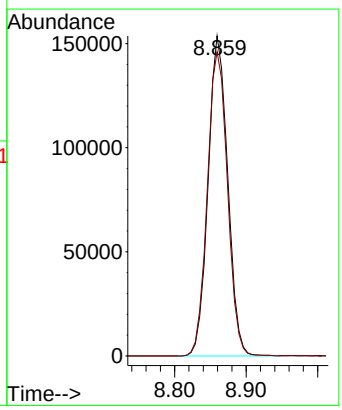


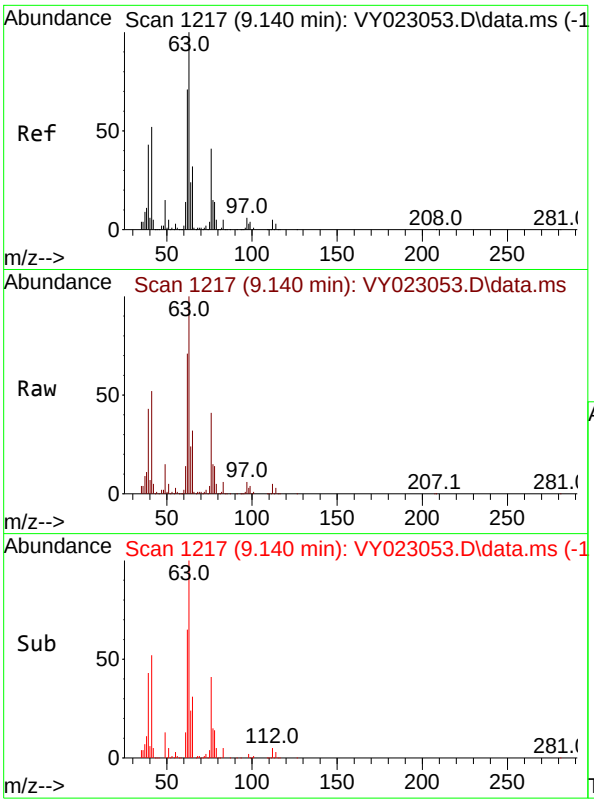




#44
Trichloroethene
Concen: 48.199 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:130 Resp: 292421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 95.1 | 0.0 | 190.2 |

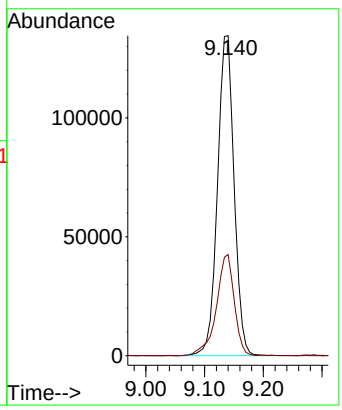





#45
1,2-Dichloropropane
Concen: 48.938 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 63 Resp: 26435

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.6 | 25.3 | 37.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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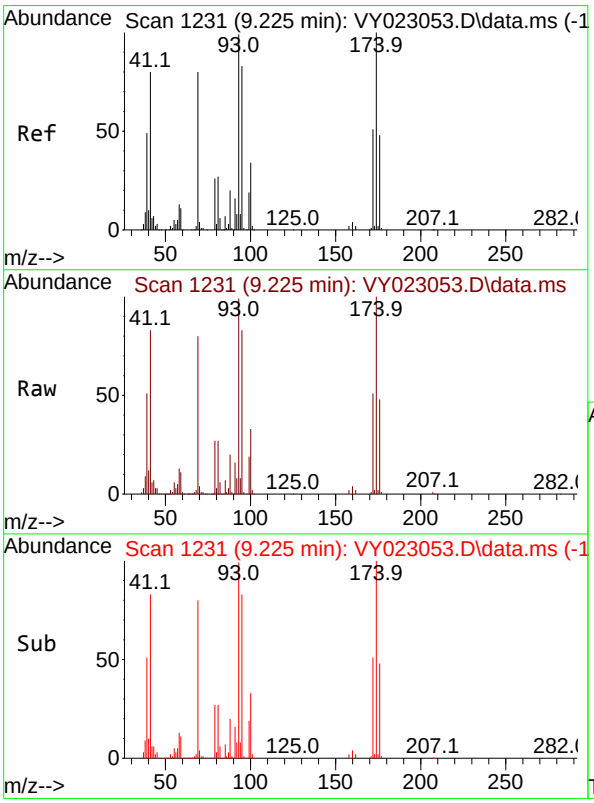
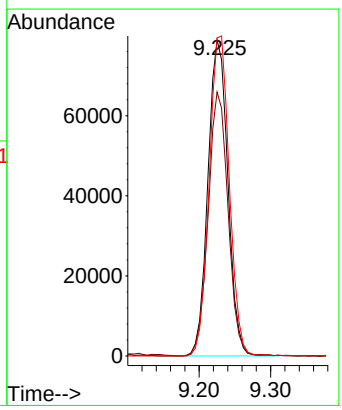
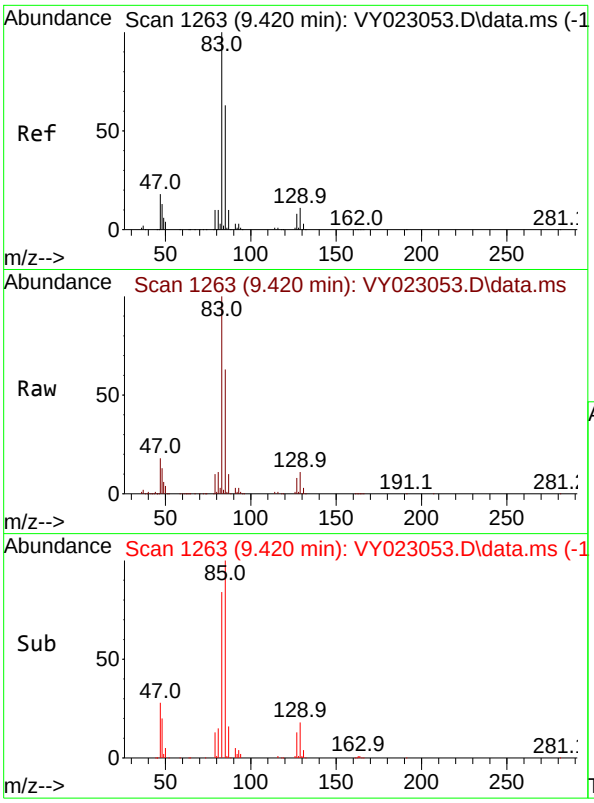



#46
Dibromomethane
Concen: 49.291 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 93 Resp: 152822

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 83.1 | 66.5 | 99.7 |
| 174 | 102.3 | 81.8 | 122.8 |

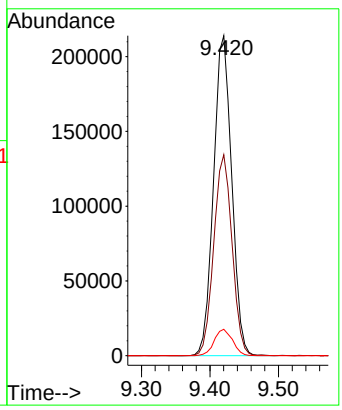





#47
Bromodichloromethane
Concen: 49.327 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 83 Resp: 39352

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.8 | 50.2 | 75.4 |
| 127 | 8.3 | 6.6 | 10.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

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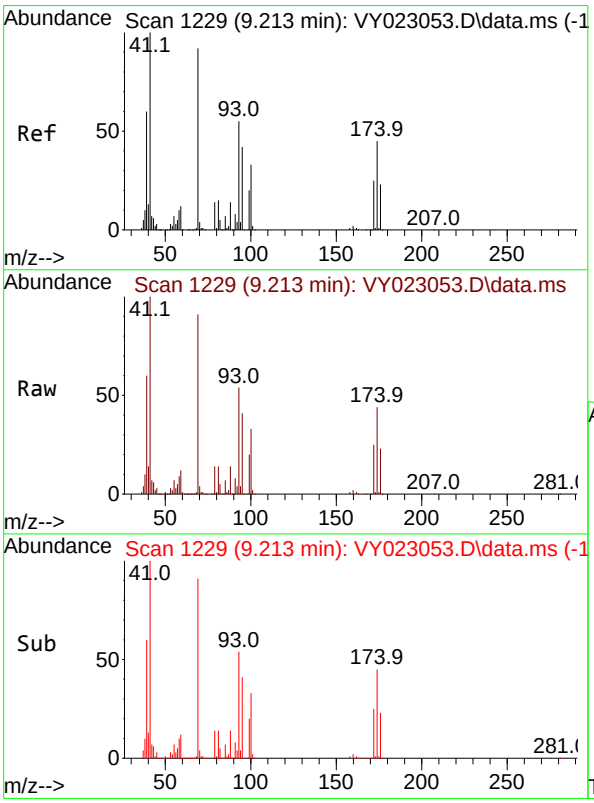
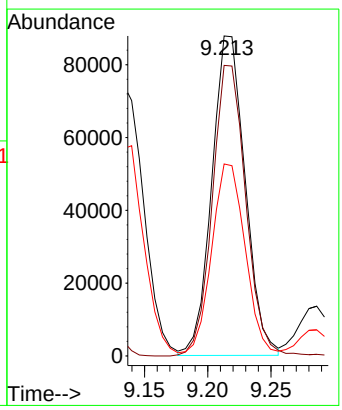
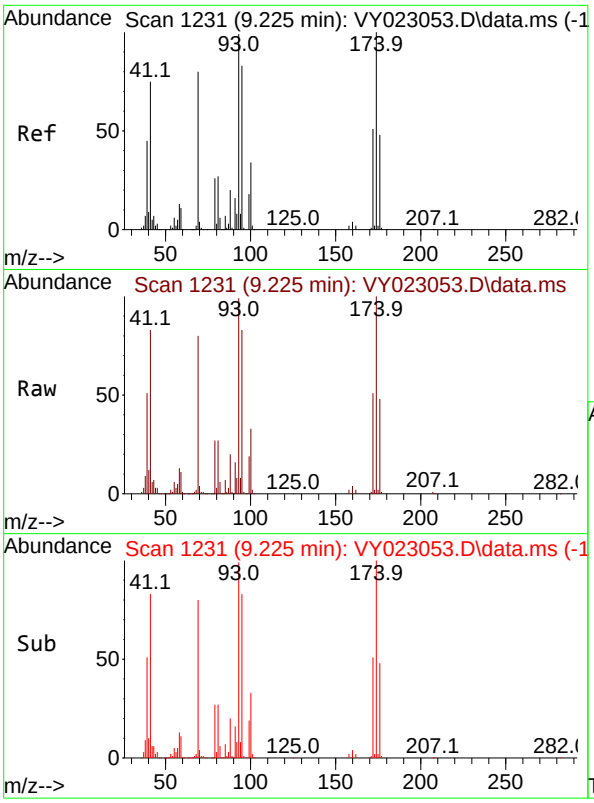



#48
Methyl methacrylate
Concen: 51.958 ug/l
RT: 9.213 min Scan# 1229
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 41 Resp: 160792

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 91.5 | 73.2 | 109.8 |
| 39 | 58.7 | 47.0 | 70.4 |

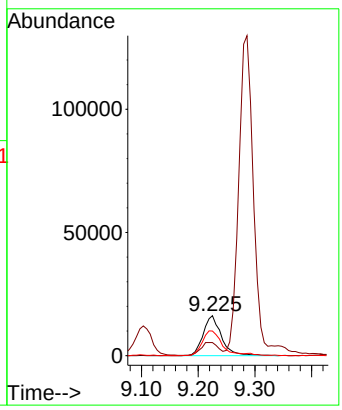





#49
1,4-Dioxane
Concen: 997.124 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 88 Resp: 3624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 30.4 | 24.3 | 36.5 |
| 58 | 69.2 | 55.4 | 83.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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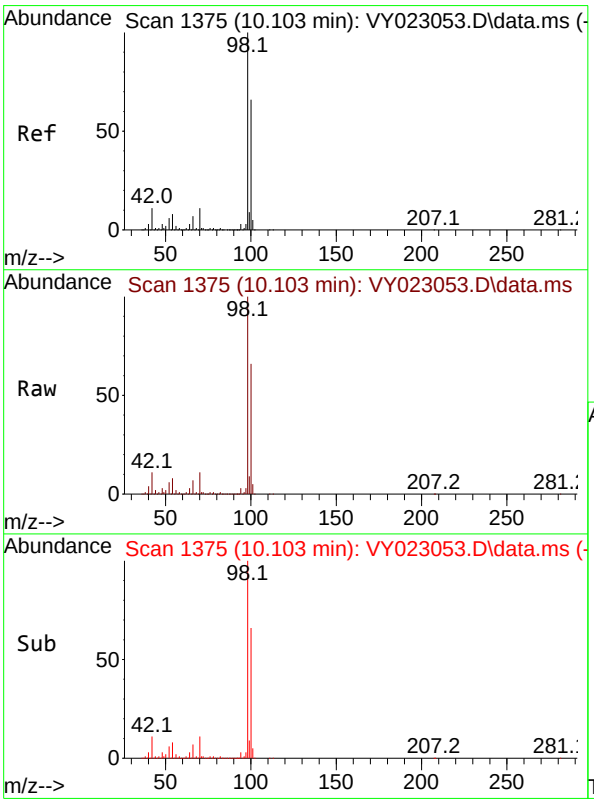
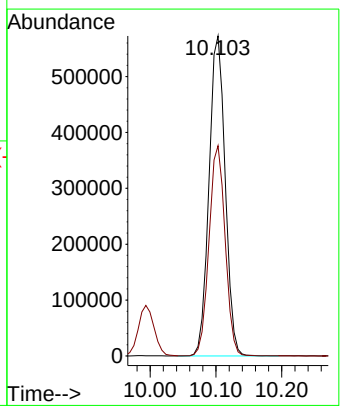
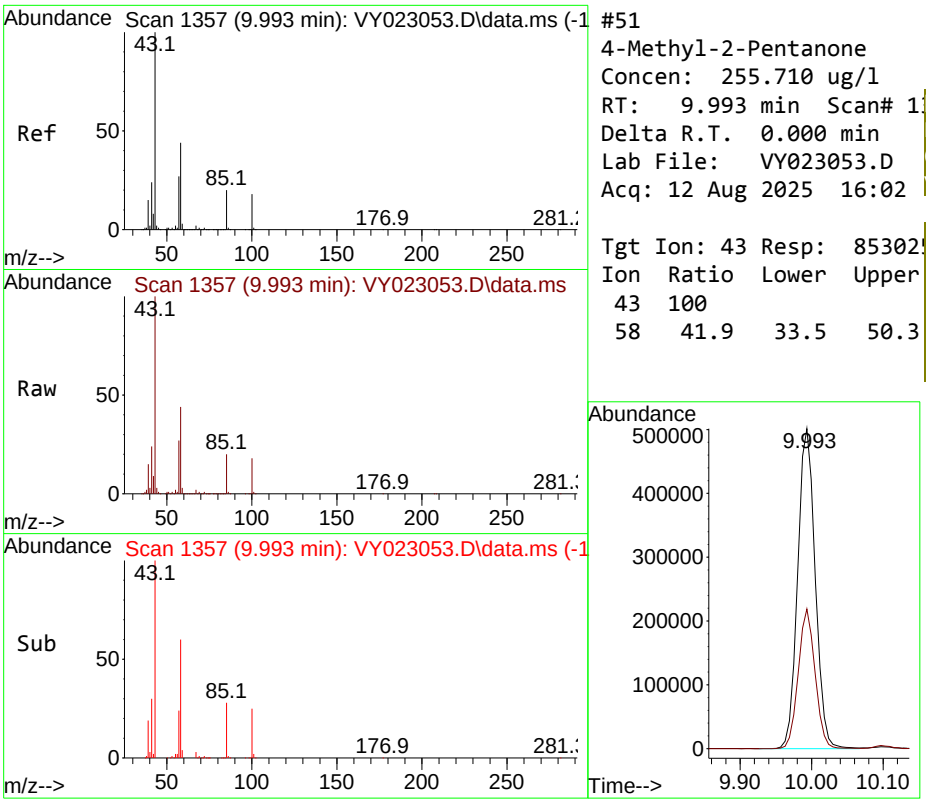



#50
Toluene-d8
Concen: 48.899 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 98 Resp: 979082

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.4 | 52.3 | 78.5 |






#51
4-Methyl-2-Pentanone
Concen: 255.710 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 43 Resp: 85302

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 41.9 | 33.5 | 50.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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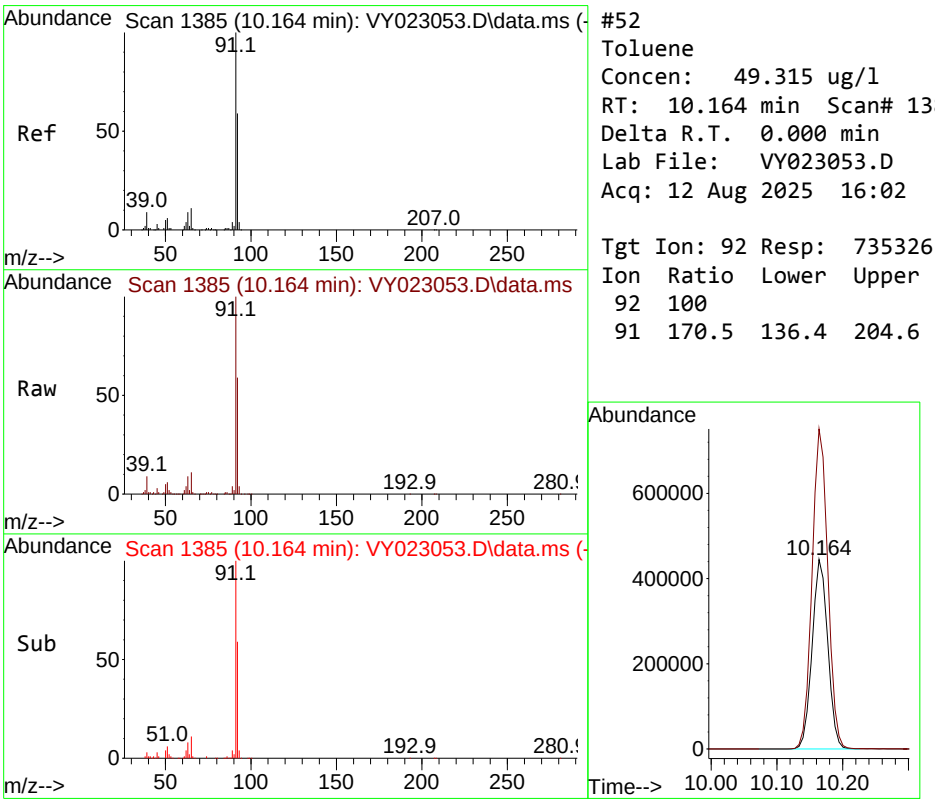
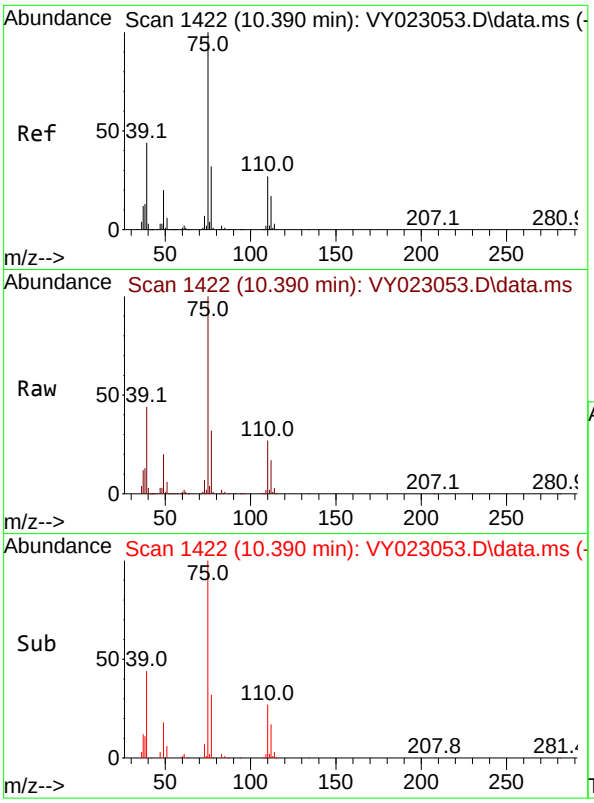



#52
Toluene
Concen: 49.315 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 92 Resp: 735326

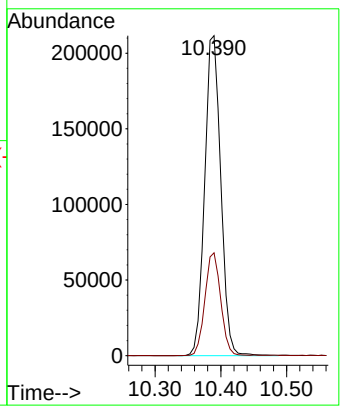
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 170.5 | 136.4 | 204.6 |




#53
t-1,3-Dichloropropene
Concen: 49.790 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 75 Resp: 35969

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.1 | 25.7 | 38.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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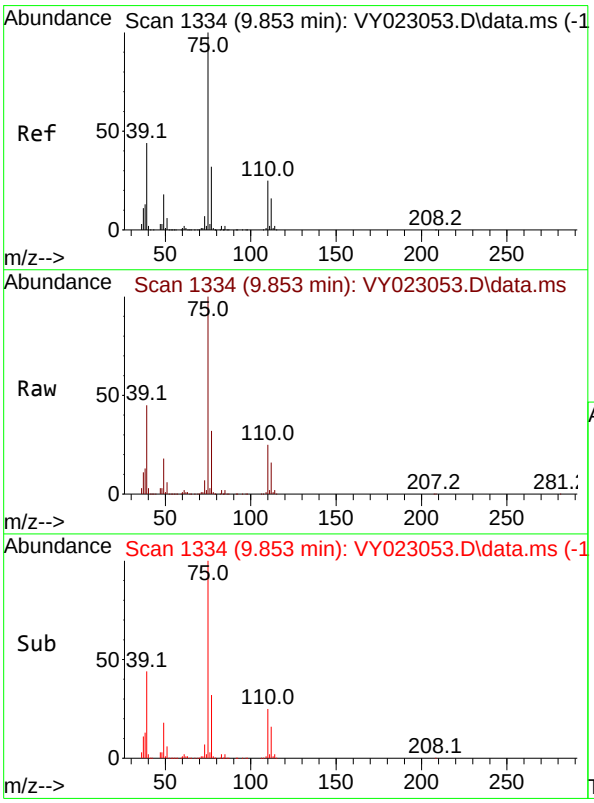
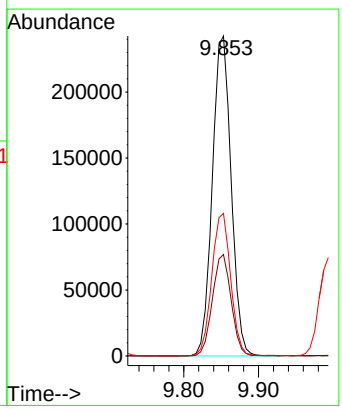
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

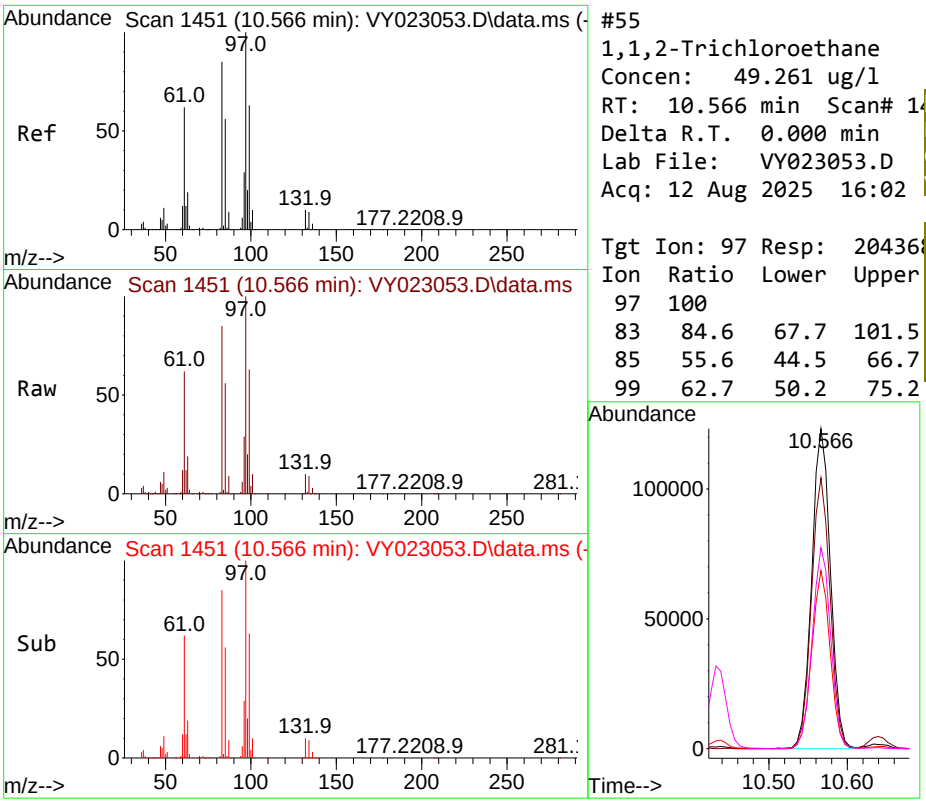



#54
cis-1,3-Dichloropropene
Concen: 49.731 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 75 Resp: 424834

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.7 | 25.4 | 38.0 |
| 39 | 44.5 | 35.6 | 53.4 |






#55
1,1,2-Trichloroethane
Concen: 49.261 ug/l
RT: 10.566 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 97 Resp: 20436

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 84.6 | 67.7 | 101.5 |
| 85 | 55.6 | 44.5 | 66.7 |
| 99 | 62.7 | 50.2 | 75.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

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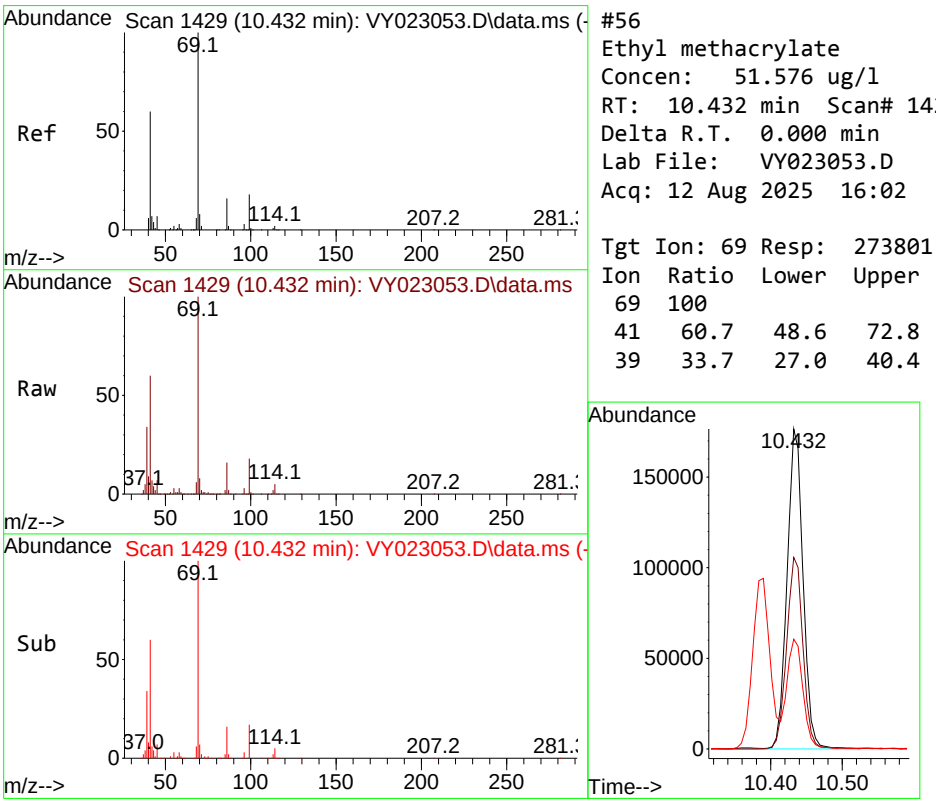
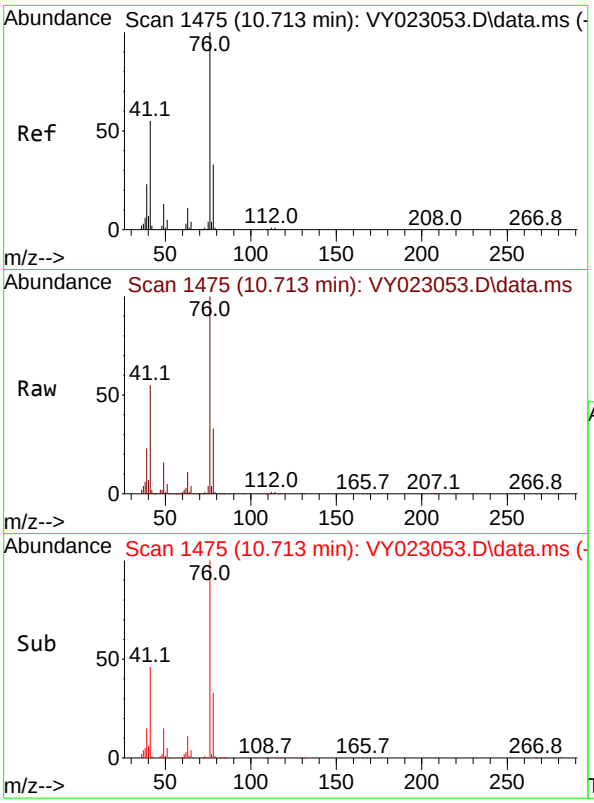



#56
Ethyl methacrylate
Concen: 51.576 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 69 Resp: 273801

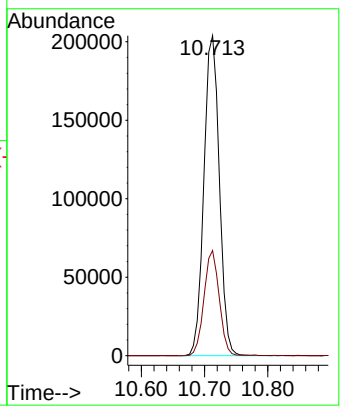
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 60.7 | 48.6 | 72.8 |
| 39 | 33.7 | 27.0 | 40.4 |




#57
1,3-Dichloropropane
Concen: 49.249 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 76 Resp: 34651

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.5 | 26.0 | 39.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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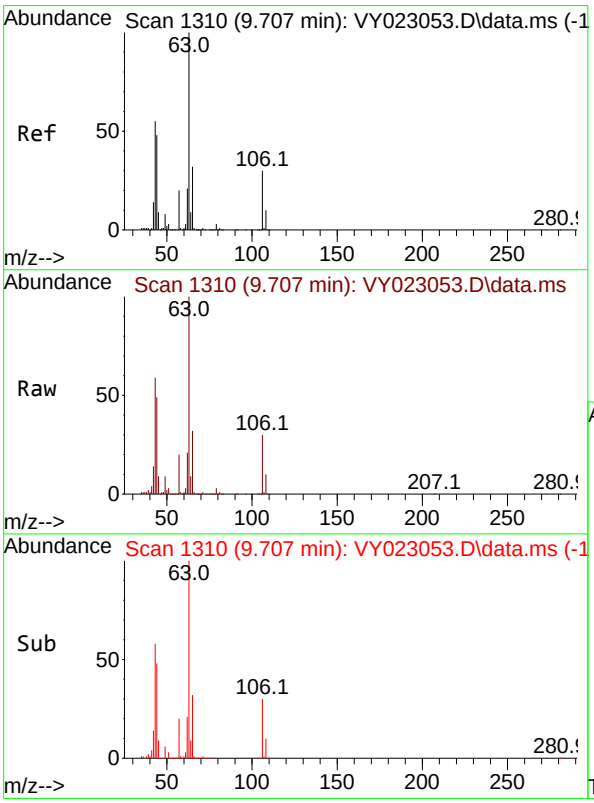
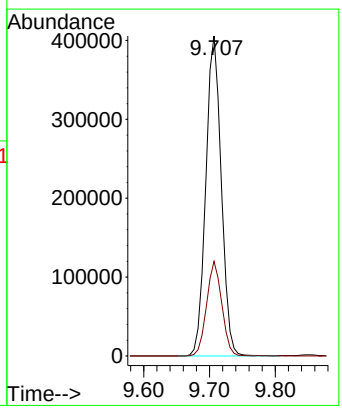
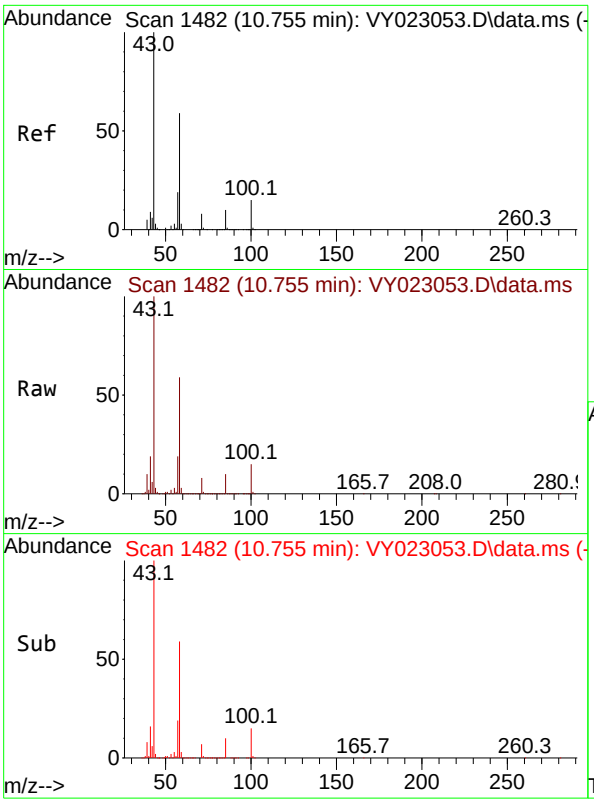



#58
2-Chloroethyl Vinyl ether
Concen: 264.906 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 63 Resp: 663351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 29.0 | 23.2 | 34.8 |






#59
2-Hexanone
Concen: 257.194 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 43 Resp: 58422

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 59.0 | 29.5 | 88.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

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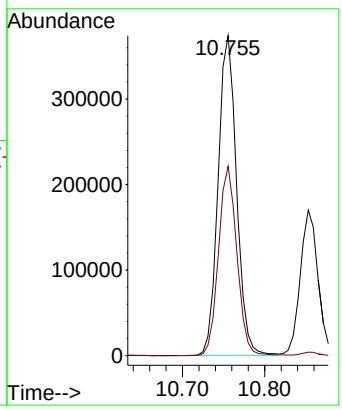
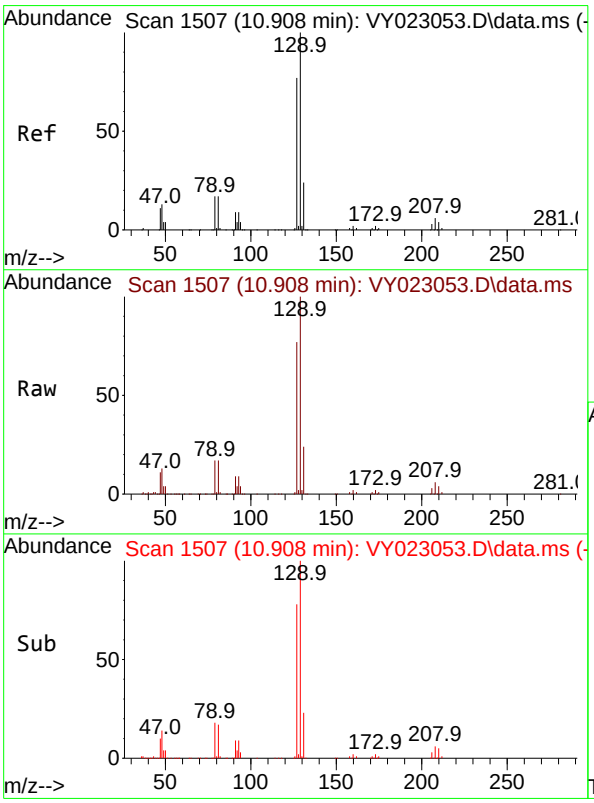
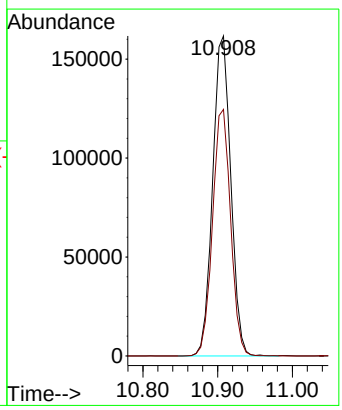


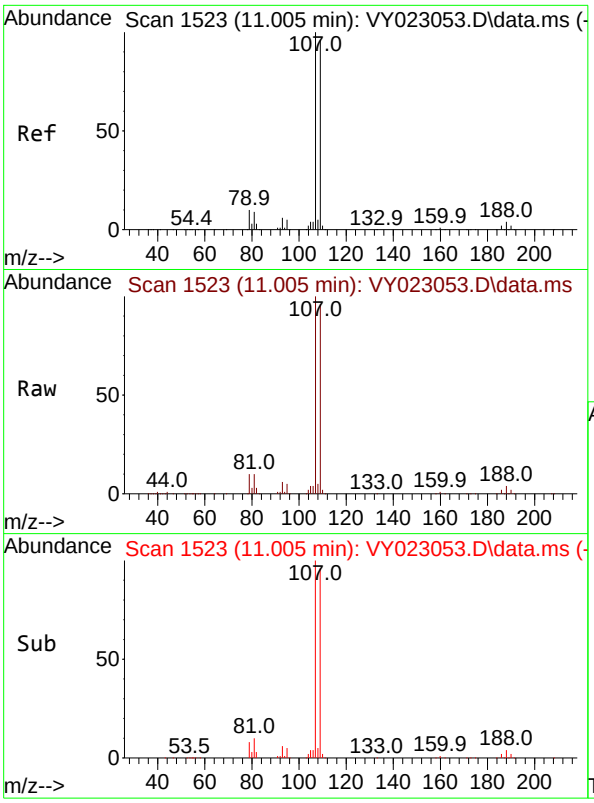




#60
Dibromochloromethane
Concen: 49.719 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:129 Resp: 272171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.0 | 38.5 | 115.5 |






#61
1,2-Dibromoethane
Concen: 49.598 ug/l
RT: 11.005 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:107 Resp: 19339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.5 | 75.6 | 113.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

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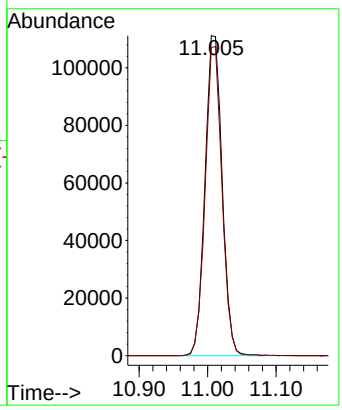
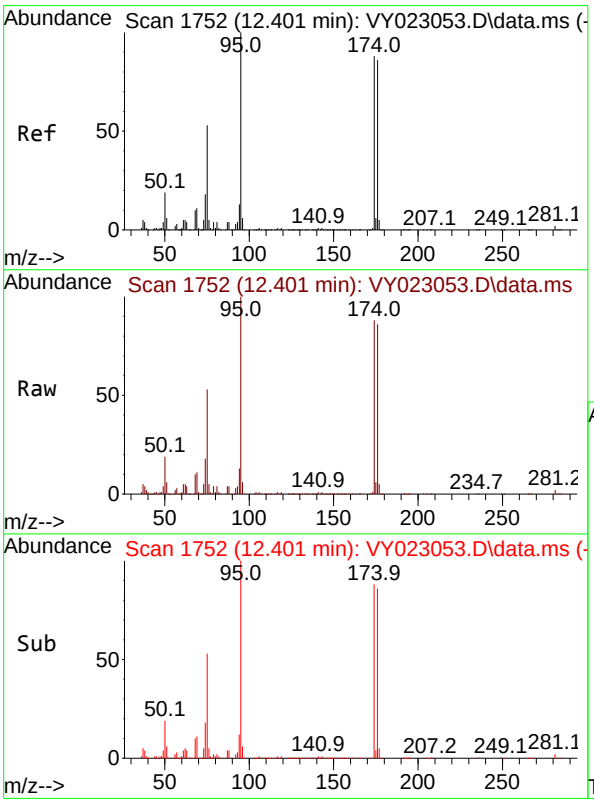
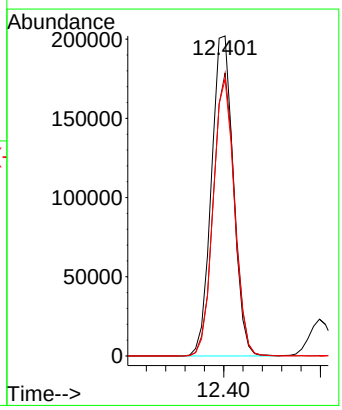


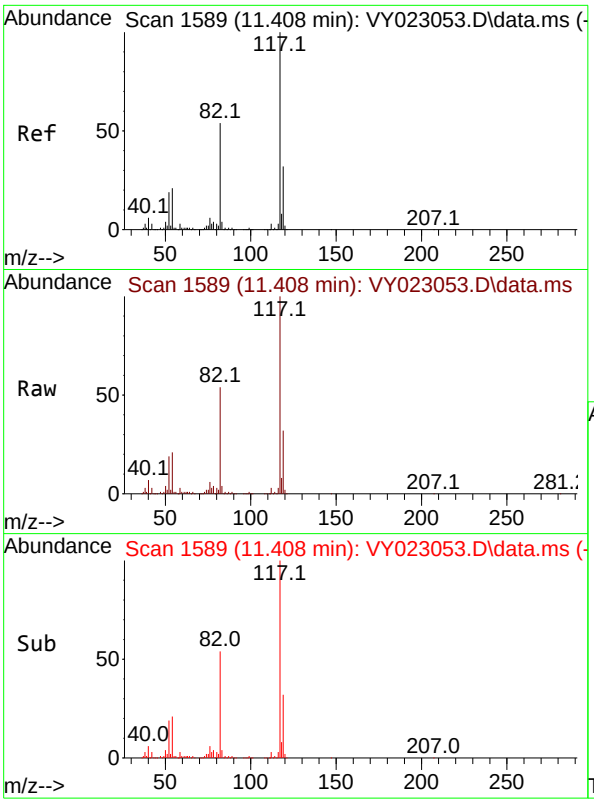




#62
4-Bromofluorobenzene
Concen: 49.194 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 95 Resp: 316770

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 85.8 | 0.0 | 171.6 |
| 176 | 83.8 | 0.0 | 167.6 |

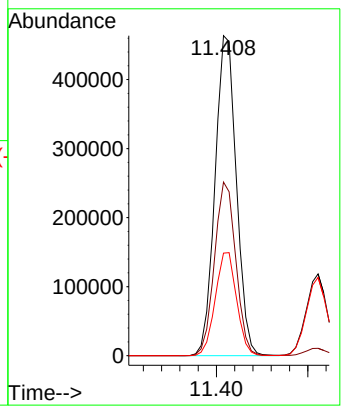





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:117 Resp: 75196

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.2 | 43.4 | 65.0 |
| 119 | 32.0 | 25.6 | 38.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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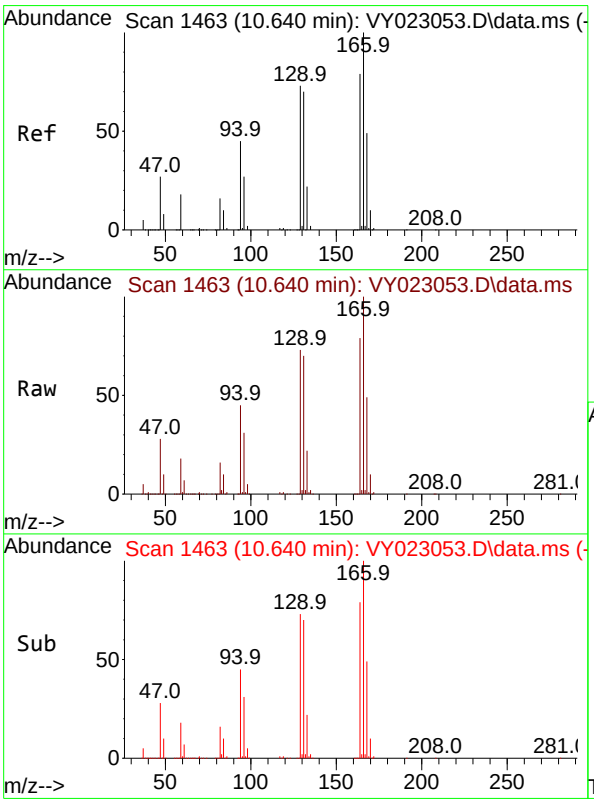
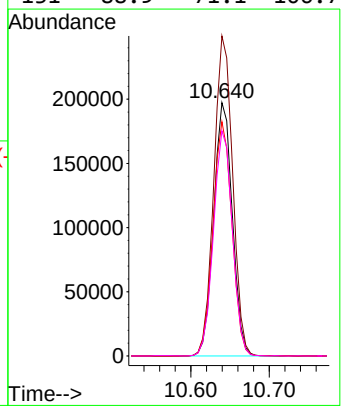
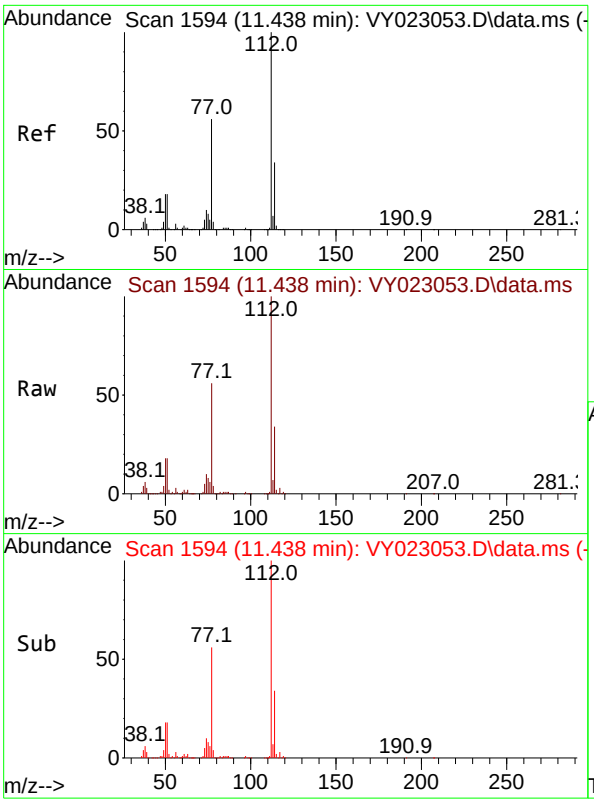



#64
Tetrachloroethene
Concen: 48.740 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:164 Resp: 327271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 126.4 | 101.1 | 151.7 |
| 129 | 92.5 | 74.0 | 111.0 |
| 131 | 88.9 | 71.1 | 106.7 |

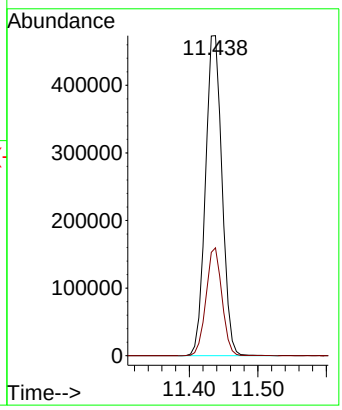





#65
Chlorobenzene
Concen: 48.920 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:112 Resp: 79349

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 33.7 | 27.0 | 40.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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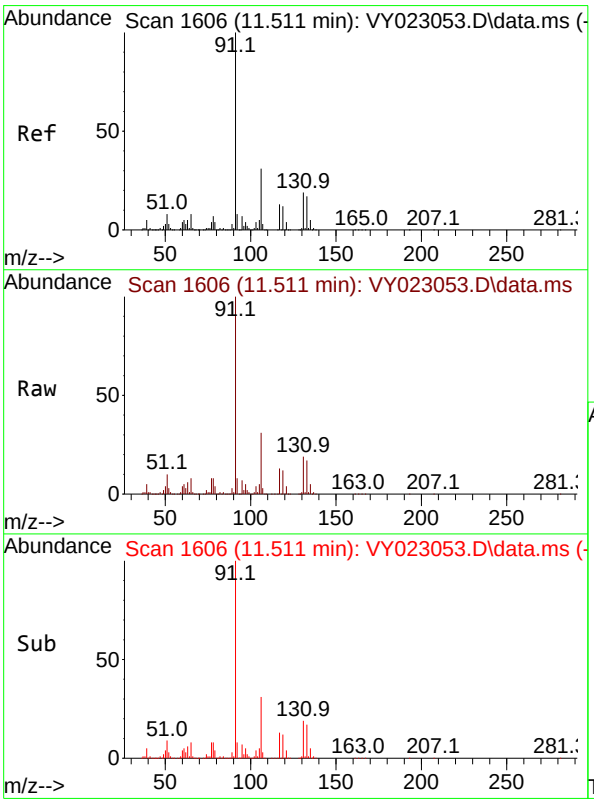
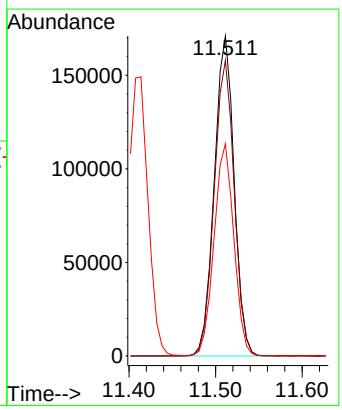
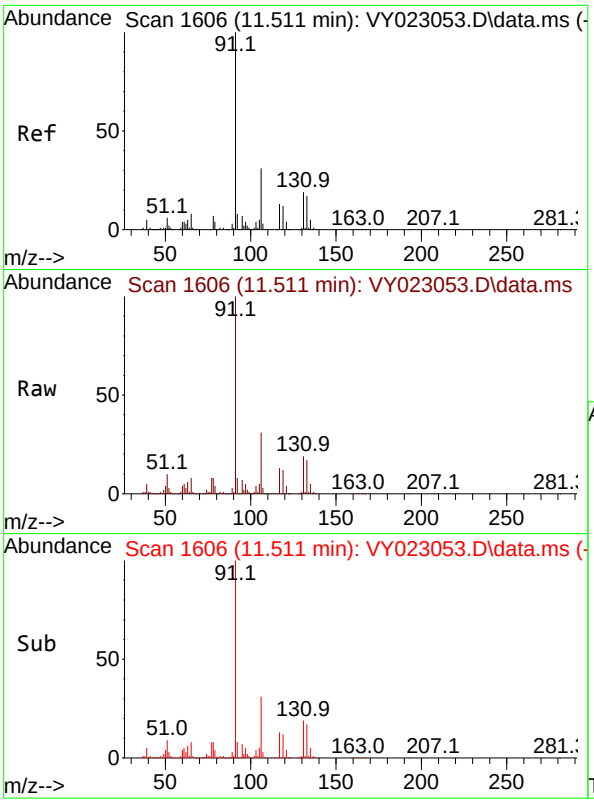



#66
1,1,1,2-Tetrachloroethane
Concen: 49.381 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:131 Resp: 271839

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 93.7 | 46.9 | 140.6 |
| 119 | 66.4 | 33.2 | 99.6 |

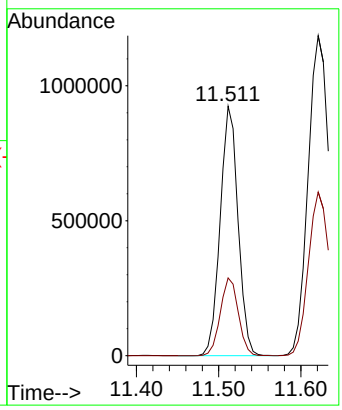





#67
Ethyl Benzene
Concen: 50.073 ug/l
RT: 11.511 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 91 Resp: 139770

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.2 | 25.0 | 37.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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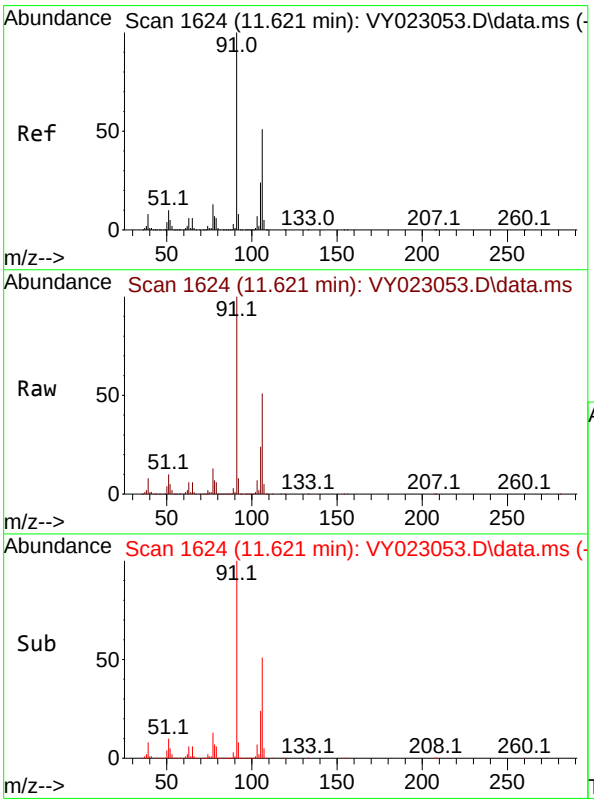
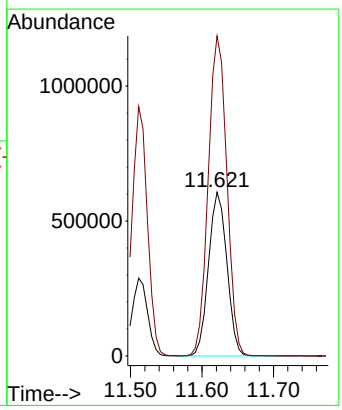
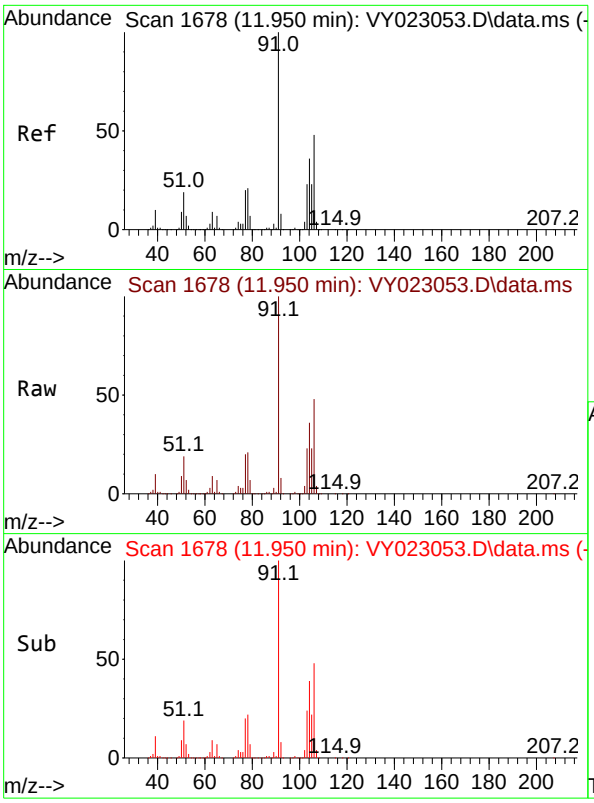



#68
m/p-Xylenes
Concen: 99.103 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:106 Resp: 1080401

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 198.3 | 158.6 | 238.0 |






#69
o-Xylene
Concen: 50.536 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:106 Resp: 51600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 206.3 | 103.2 | 309.4 |

**Instrument :**
MSVOA_Y
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VSTDICCC050

**Manual Integrations APPROVED**

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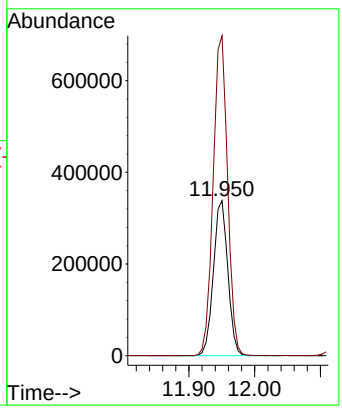
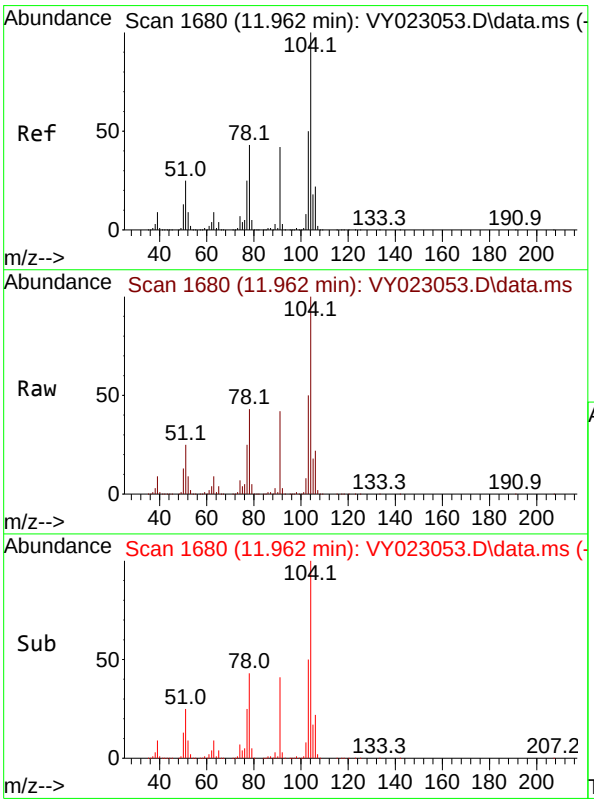
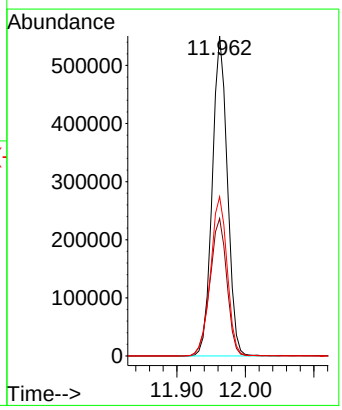


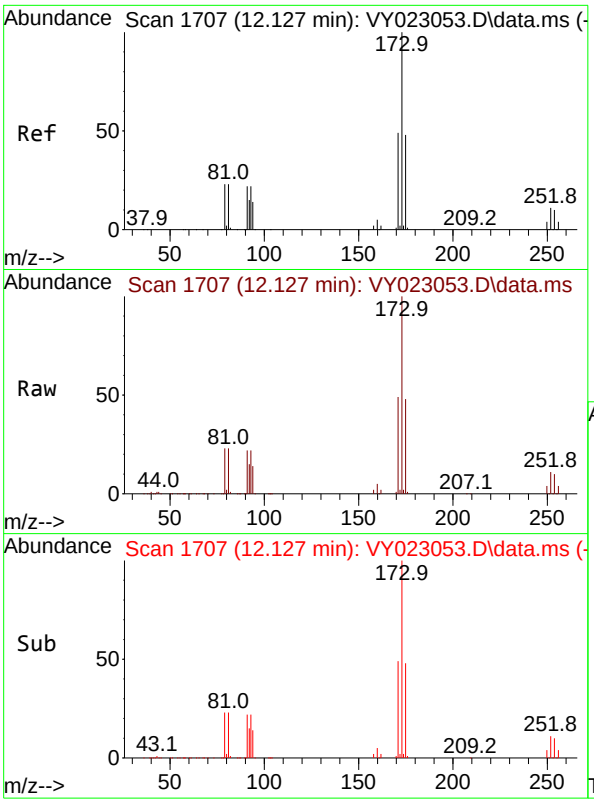




#70
Styrene
Concen: 50.569 ug/l
RT: 11.962 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:104 Resp: 844409

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 48.1 | 38.5 | 57.7 |
| 103 | 54.6 | 43.7 | 65.5 |

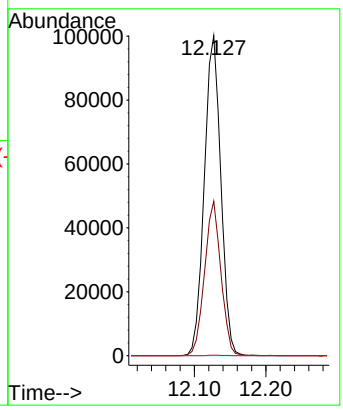





#71
Bromoform
Concen: 49.969 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:173 Resp: 16076

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.8 | 23.9 | 71.7 |
| 254 | 0.1 | 0.1 | 0.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

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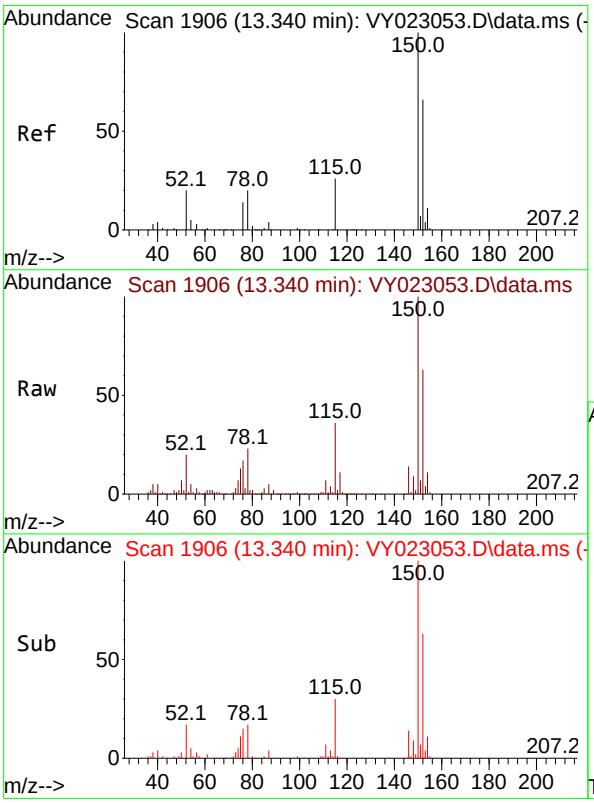
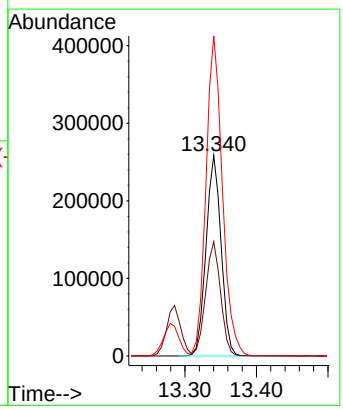
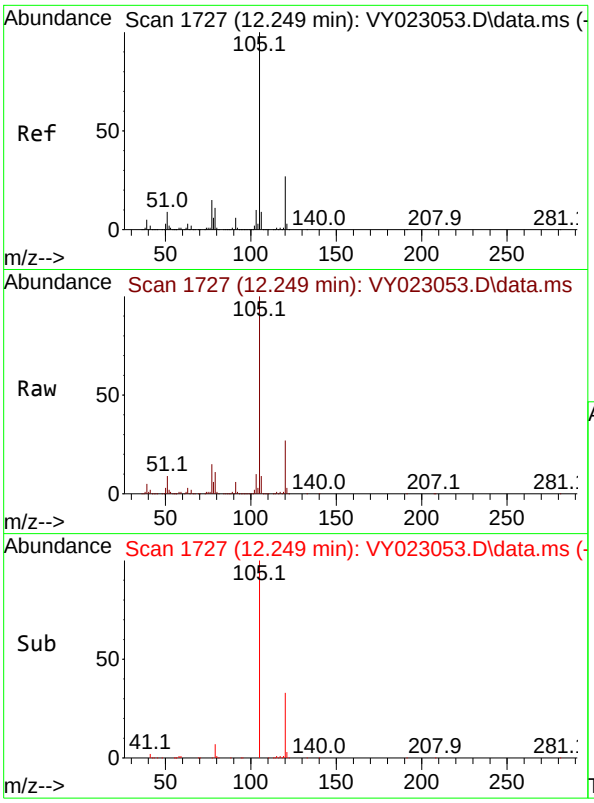



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:152 Resp: 377839

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 56.4 | 28.2 | 84.6 |
| 150 | 174.0 | 0.0 | 348.0 |

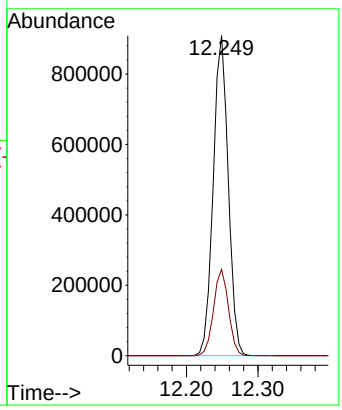





#73
Isopropylbenzene
Concen: 49.660 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:105 Resp: 132431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.8 | 13.4 | 40.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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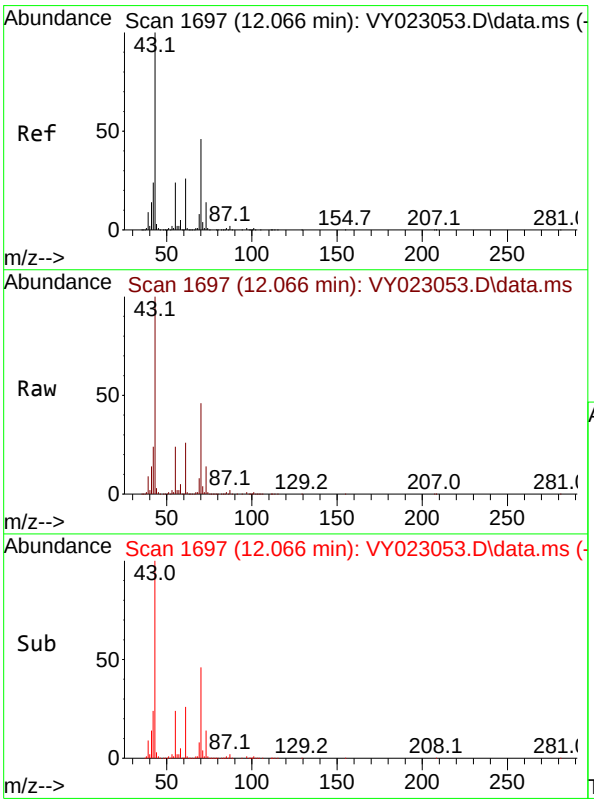
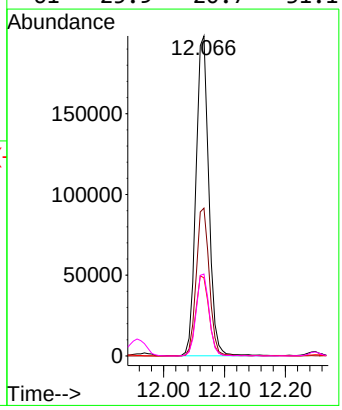
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

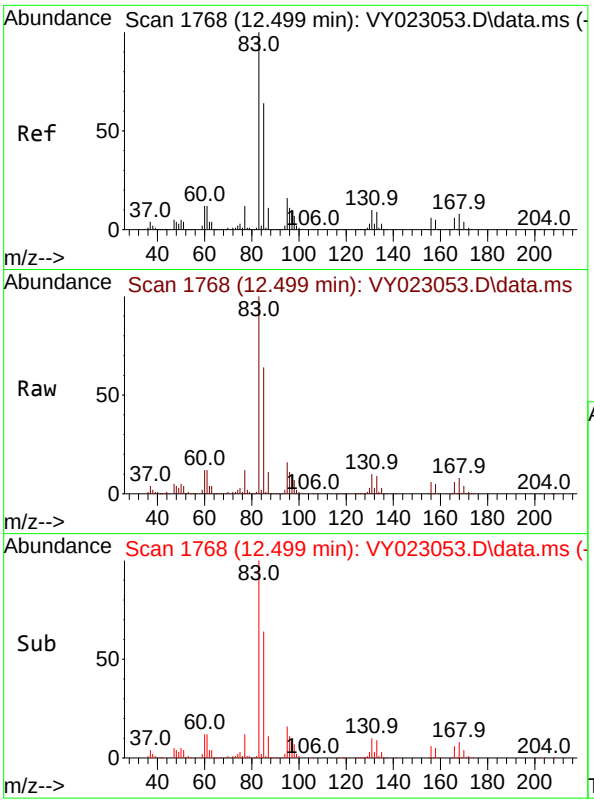



#74
N-amyl acetate
Concen: 51.264 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 43 Resp: 289914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 46.9 | 37.5 | 56.3 |
| 55 | 25.9 | 20.7 | 31.1 |
| 61 | 25.9 | 20.7 | 31.1 |






#75
1,1,2,2-Tetrachloroethane
Concen: 48.503 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 83 Resp: 22085

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.2 | 5.1 | 15.3 |
| 85 | 63.5 | 31.8 | 95.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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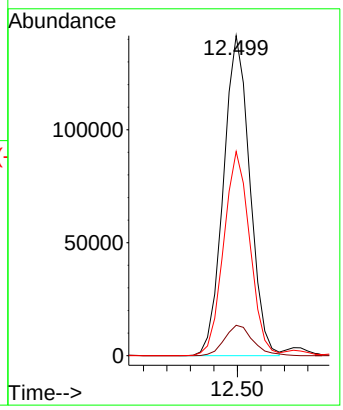
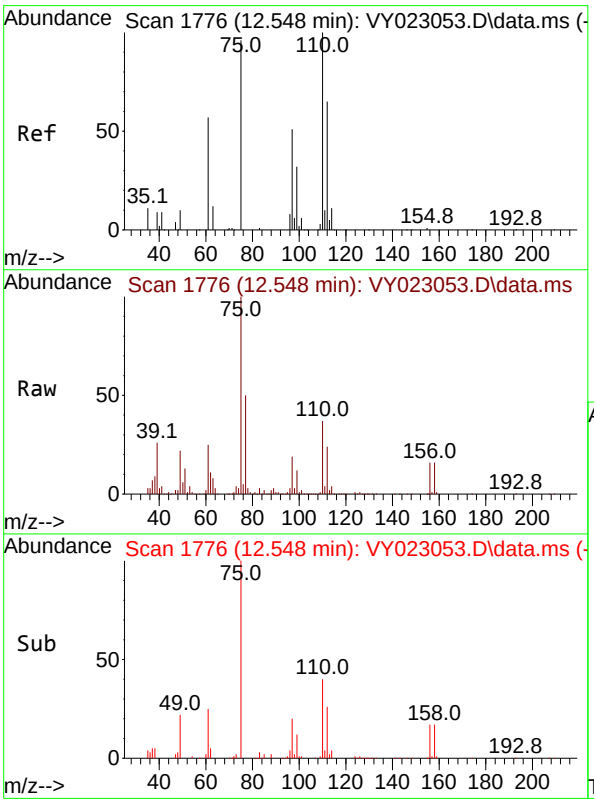
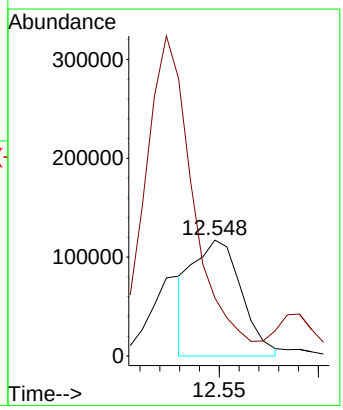


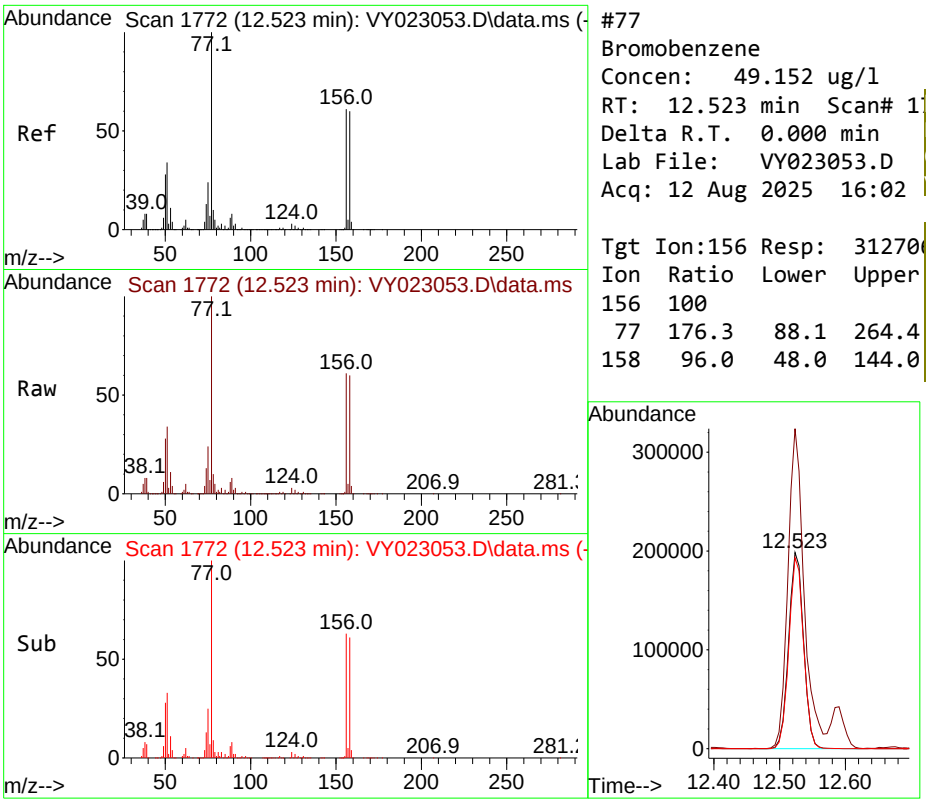




#76
1,2,3-Trichloropropane
Concen: 55.430 ug/l m
RT: 12.548 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 75 Resp: 202260

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |






#77
Bromobenzene
Concen: 49.152 ug/l
RT: 12.523 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:156 Resp: 31270

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 176.3 | 88.1 | 264.4 |
| 158 | 96.0 | 48.0 | 144.0 |




**Instrument :**
MSVOA_Y
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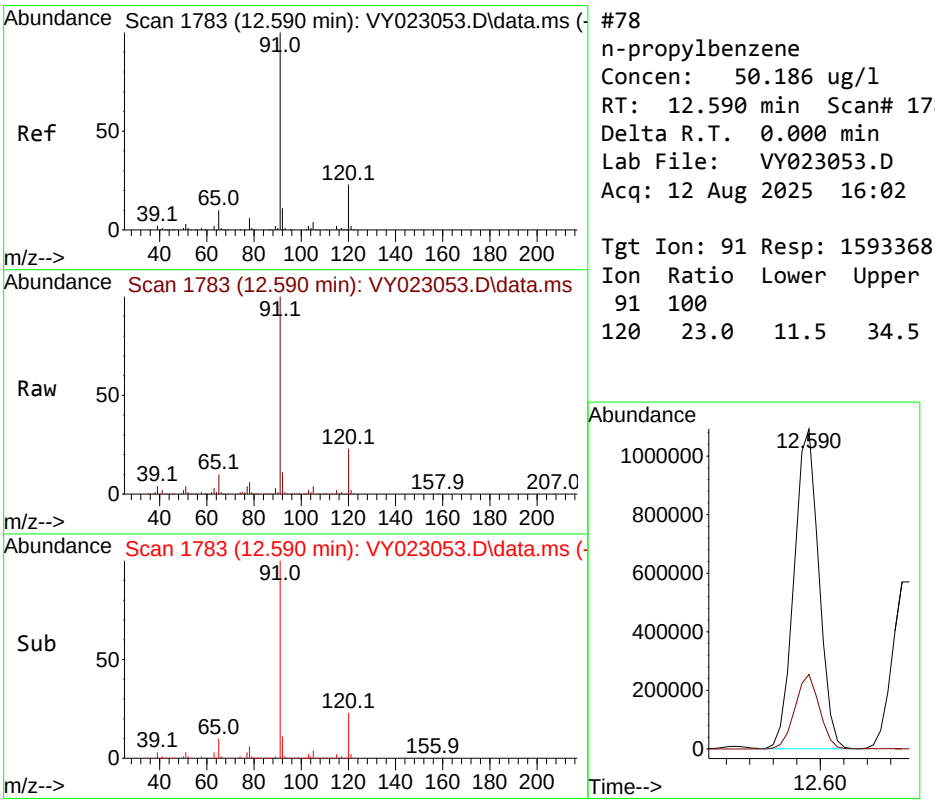
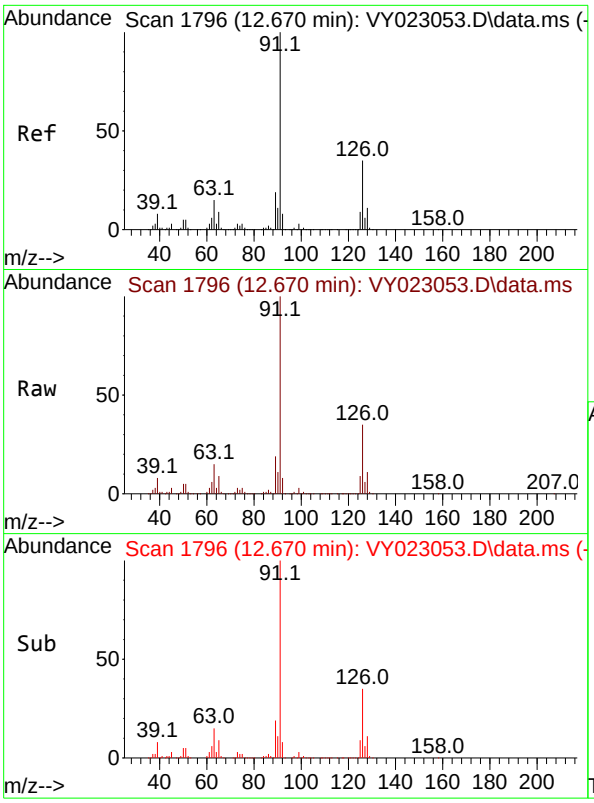



#78
n-propylbenzene
Concen: 50.186 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 91 Resp: 1593368

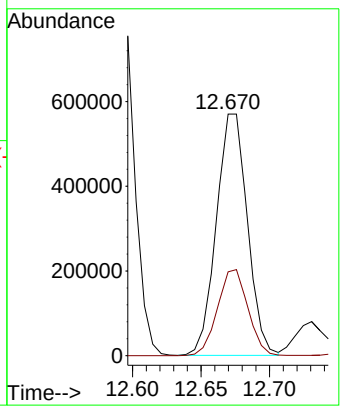
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 23.0 | 11.5 | 34.5 |




#79
2-Chlorotoluene
Concen: 49.473 ug/l
RT: 12.670 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 91 Resp: 89996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.9 | 17.4 | 52.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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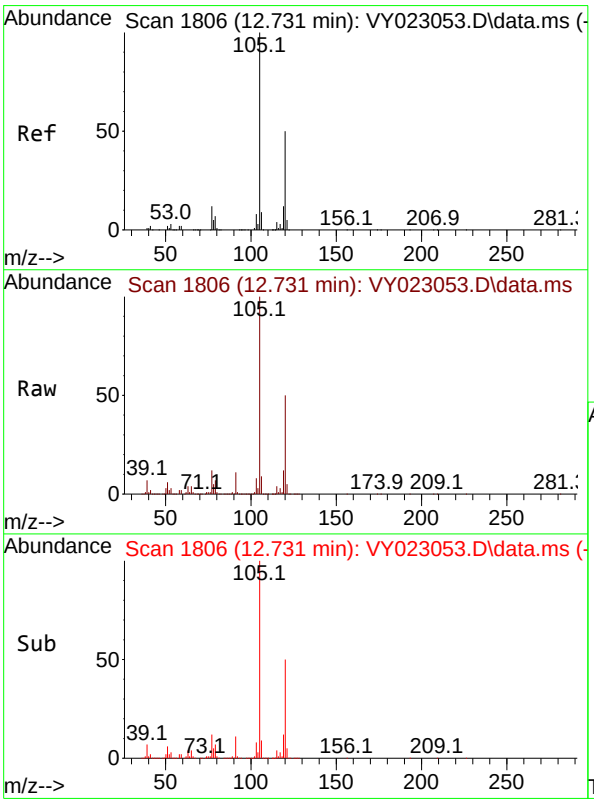
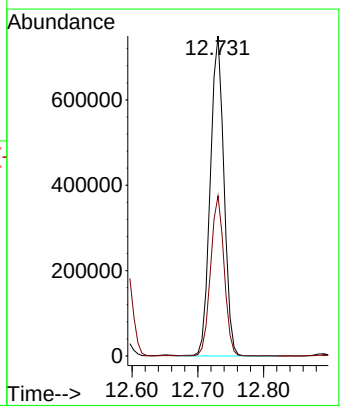
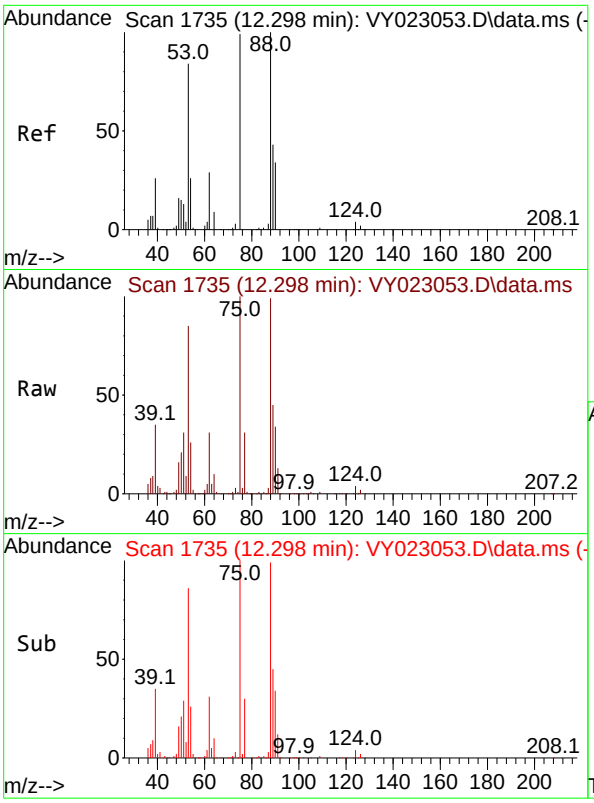



#80
1,3,5-Trimethylbenzene
Concen: 50.126 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:105 Resp: 1080333

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.6 | 24.8 | 74.4 |

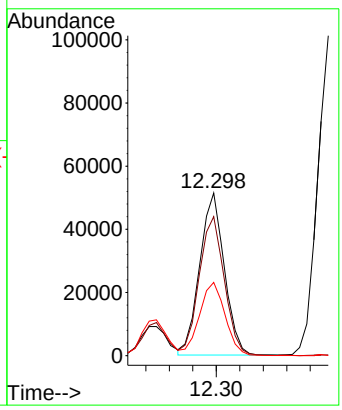





#81
trans-1,4-Dichloro-2-butene
Concen: 49.500 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 75 Resp: 7456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 88.5 | 70.8 | 106.2 |
| 89 | 47.6 | 38.1 | 57.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

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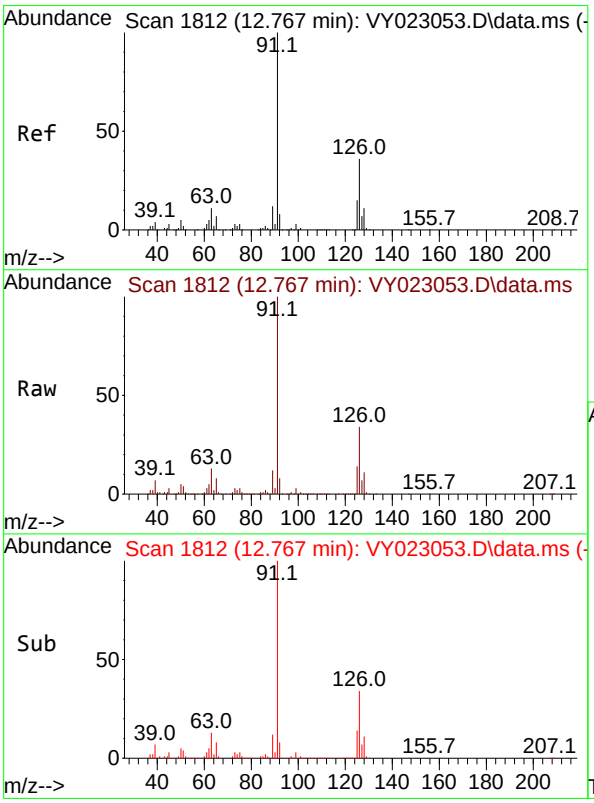
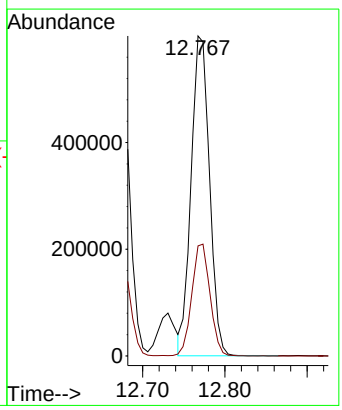
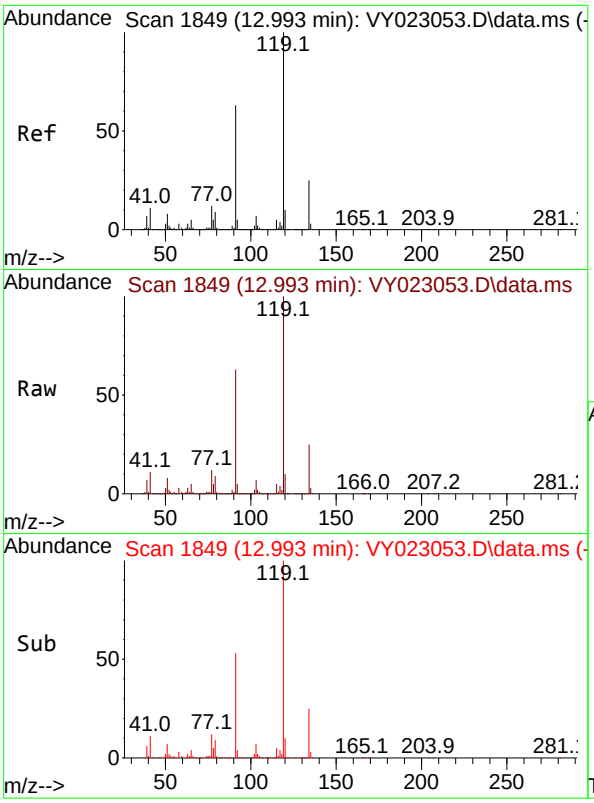



#82
4-Chlorotoluene
Concen: 49.299 ug/l
RT: 12.767 min Scan# 1812
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 91 Resp: 930329

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.7 | 17.3 | 52.0 |

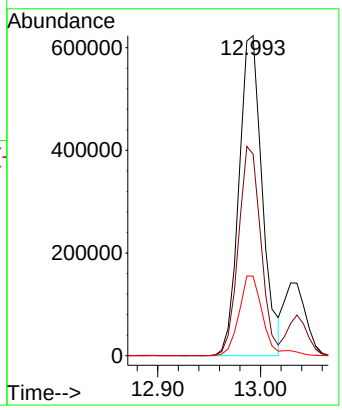





#83
tert-Butylbenzene
Concen: 50.244 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:119 Resp: 97803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 63.2 | 31.6 | 94.8 |
| 134 | 25.8 | 12.9 | 38.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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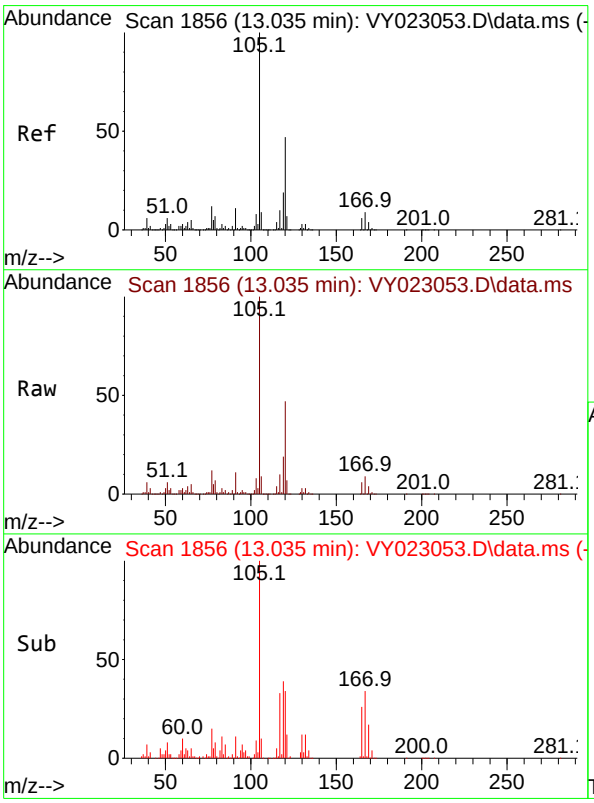
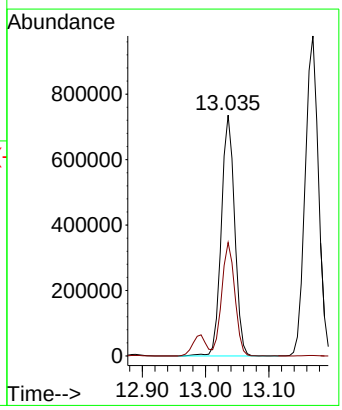
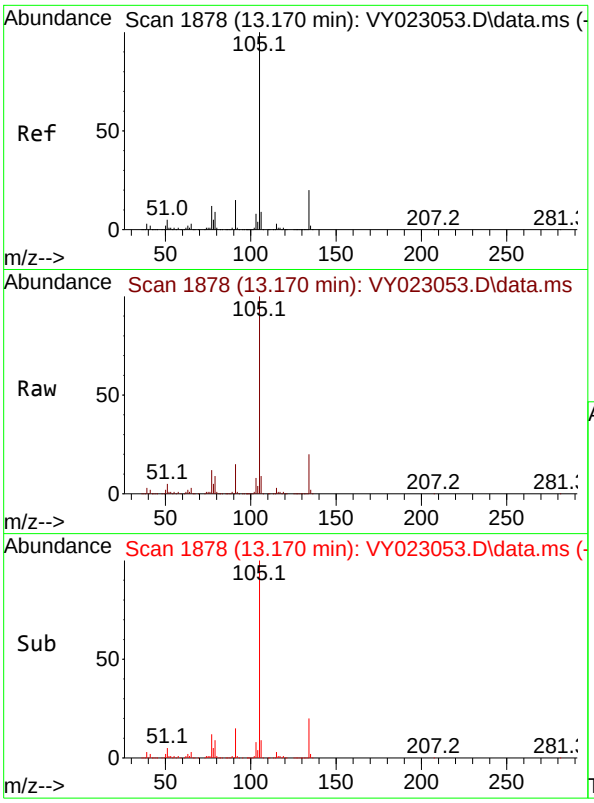



#84
1,2,4-Trimethylbenzene
Concen: 49.963 ug/l
RT: 13.035 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:105 Resp: 1071926

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.0 | 23.0 | 69.0 |

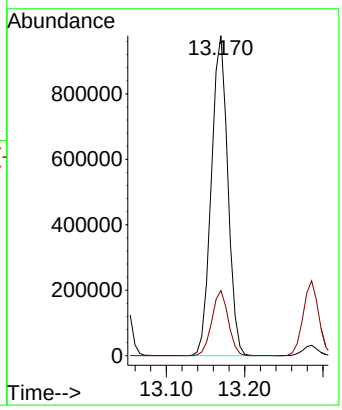





#85
sec-Butylbenzene
Concen: 49.854 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:105 Resp: 142555

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.3 | 10.2 | 30.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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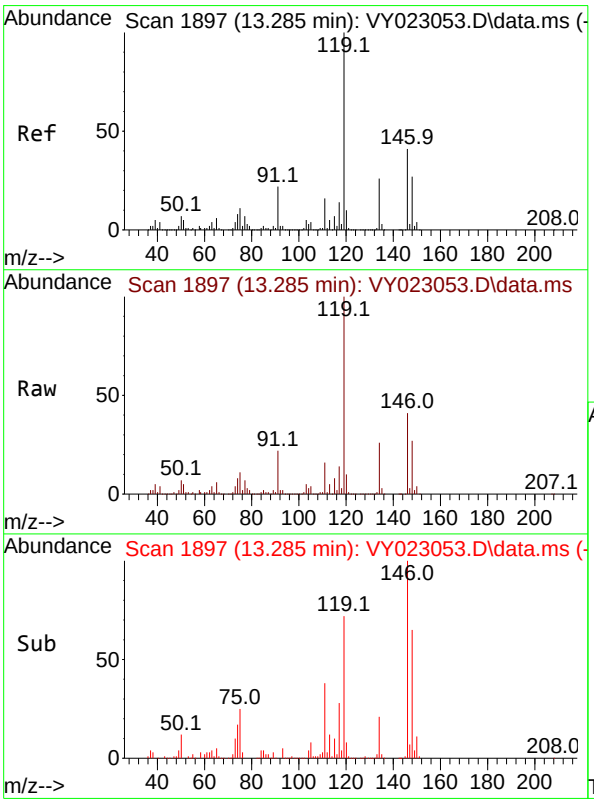
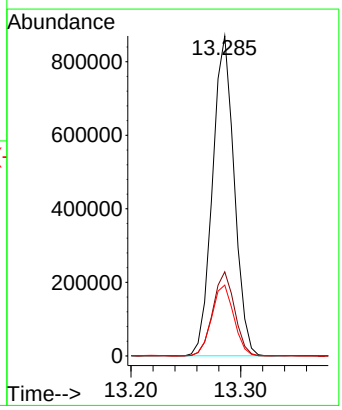
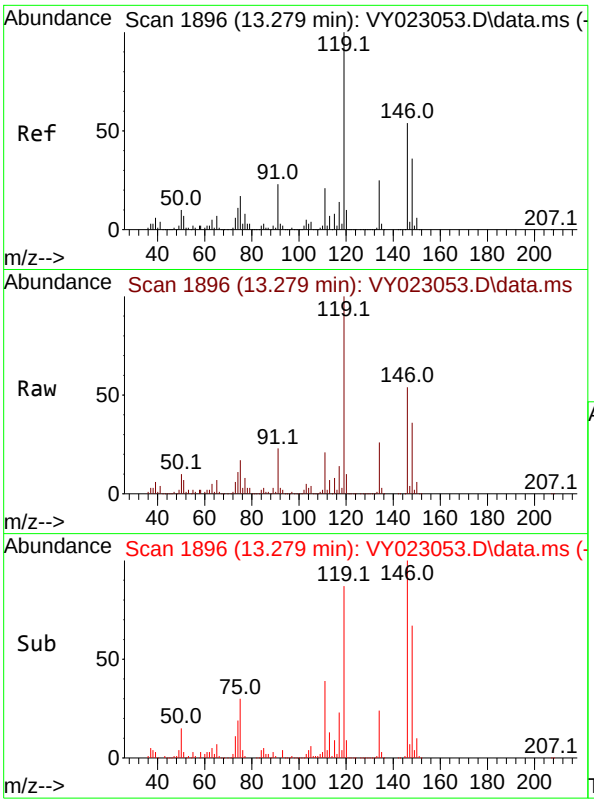



#86
p-Isopropyltoluene
Concen: 50.417 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:119 Resp: 1196645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.4 | 13.2 | 39.6 |
| 91 | 22.5 | 11.3 | 33.8 |

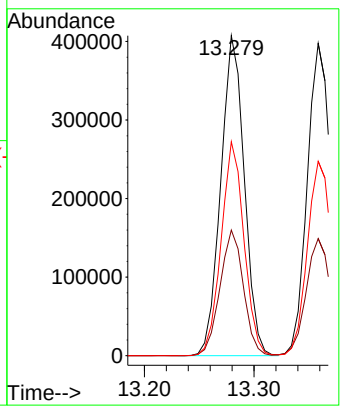





#87
1,3-Dichlorobenzene
Concen: 48.481 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:146 Resp: 60824

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.1 | 19.6 | 58.7 |
| 148 | 65.0 | 32.5 | 97.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

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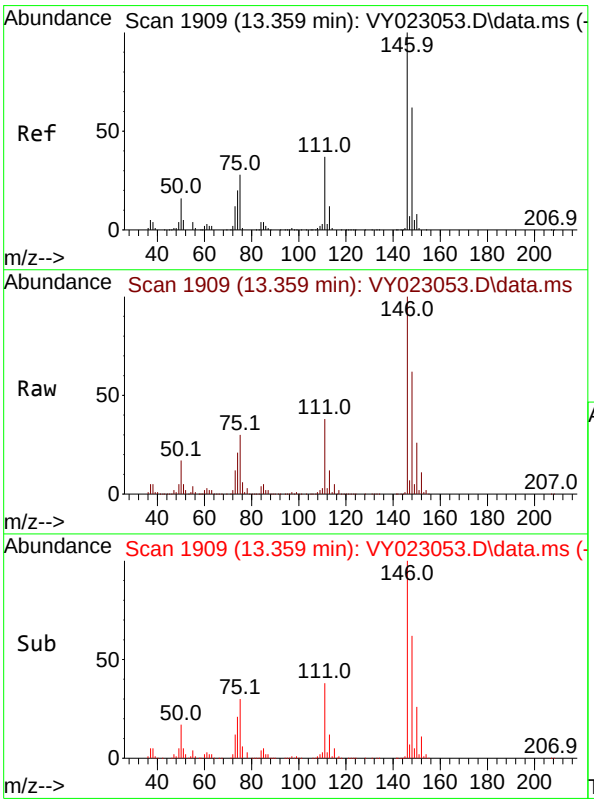
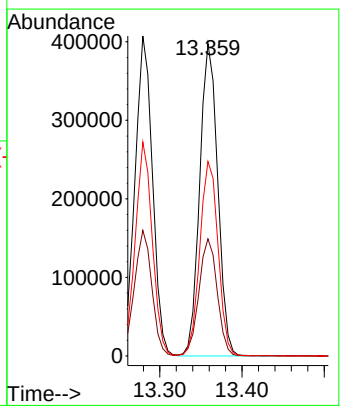
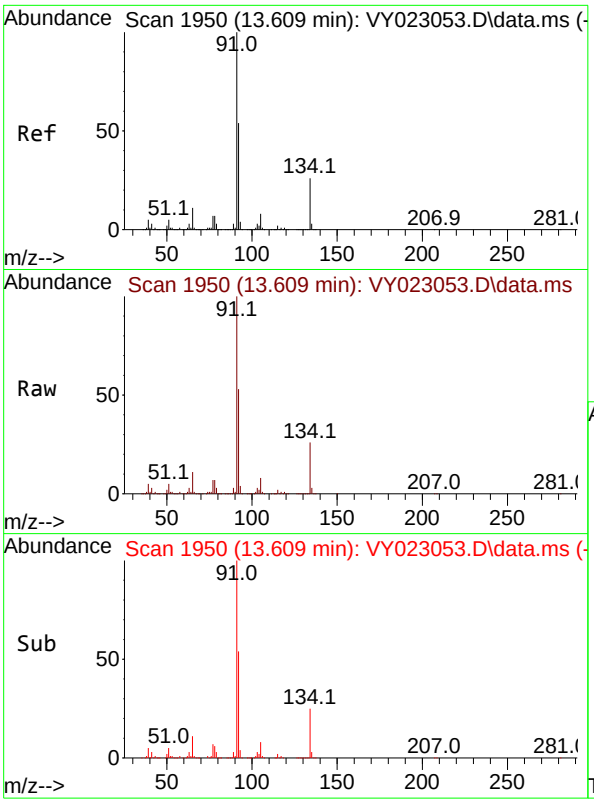



#88
1,4-Dichlorobenzene
Concen: 48.618 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:146 Resp: 605079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.1 | 19.1 | 57.1 |
| 148 | 63.1 | 31.6 | 94.7 |

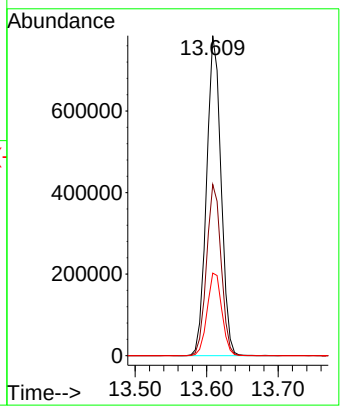





#89
n-Butylbenzene
Concen: 50.454 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 91 Resp: 109986

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.8 | 26.9 | 80.7 |
| 134 | 26.3 | 13.2 | 39.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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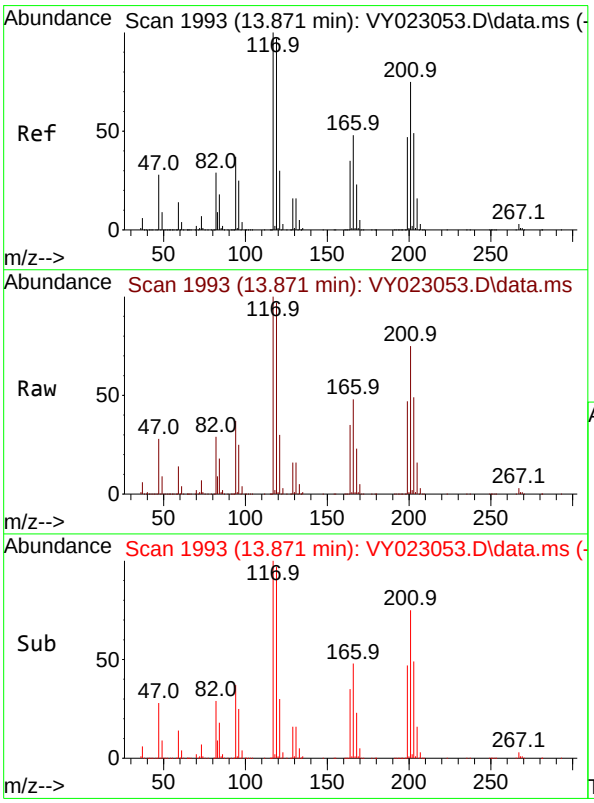
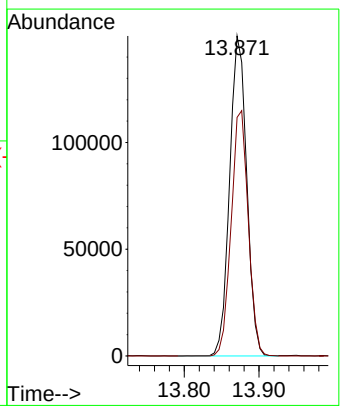
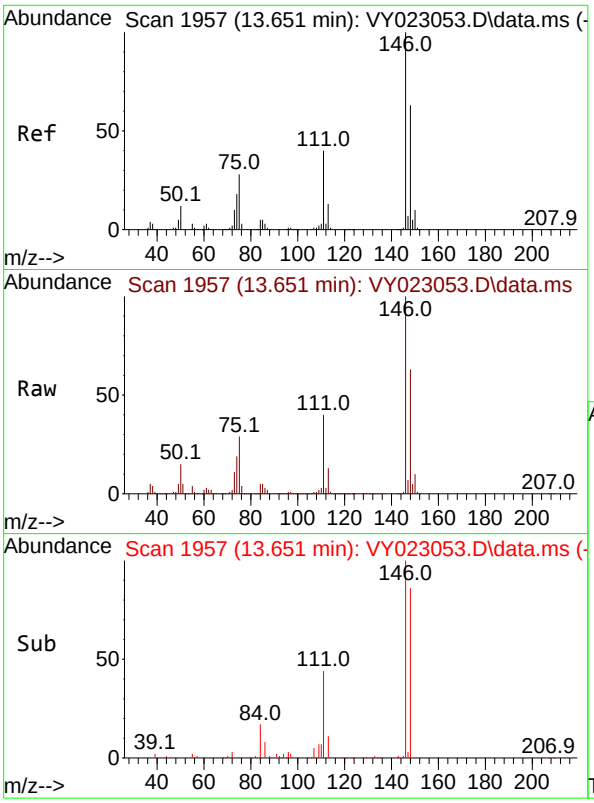



#90
Hexachloroethane
Concen: 48.984 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:117 Resp: 238005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 76.7 | 38.4 | 115.1 |

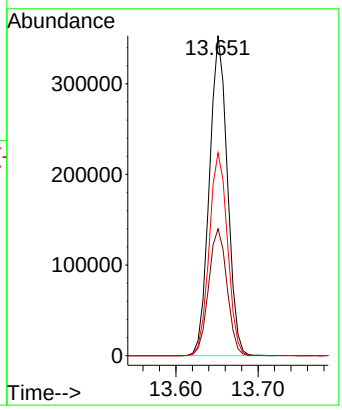





#91
1,2-Dichlorobenzene
Concen: 48.772 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:146 Resp: 53663

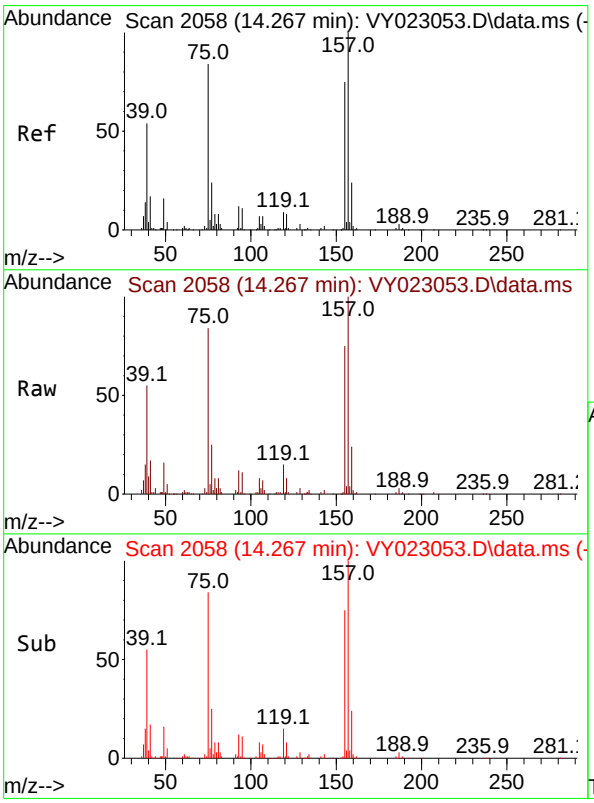
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.5 | 20.3 | 60.8 |
| 148 | 64.4 | 32.2 | 96.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

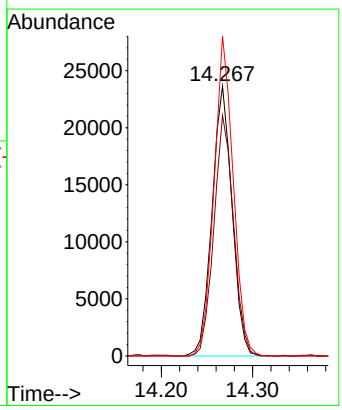
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

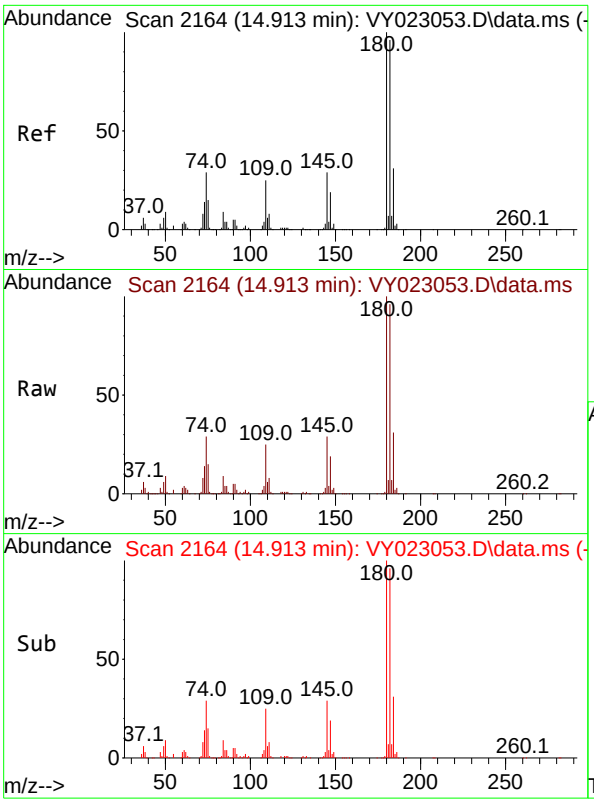



#92
1,2-Dibromo-3-Chloropropane
Concen: 50.592 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 75 Resp: 35867

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 87.7 | 43.9 | 131.6 |
| 157 | 114.4 | 57.2 | 171.6 |

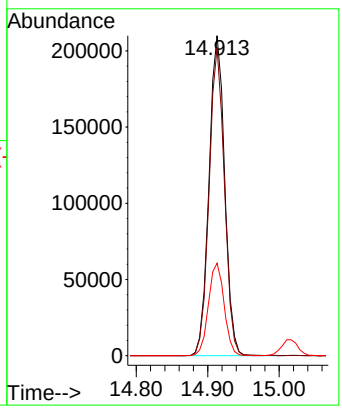





#93
1,2,4-Trichlorobenzene
Concen: 49.192 ug/l
RT: 14.913 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:180 Resp: 32008

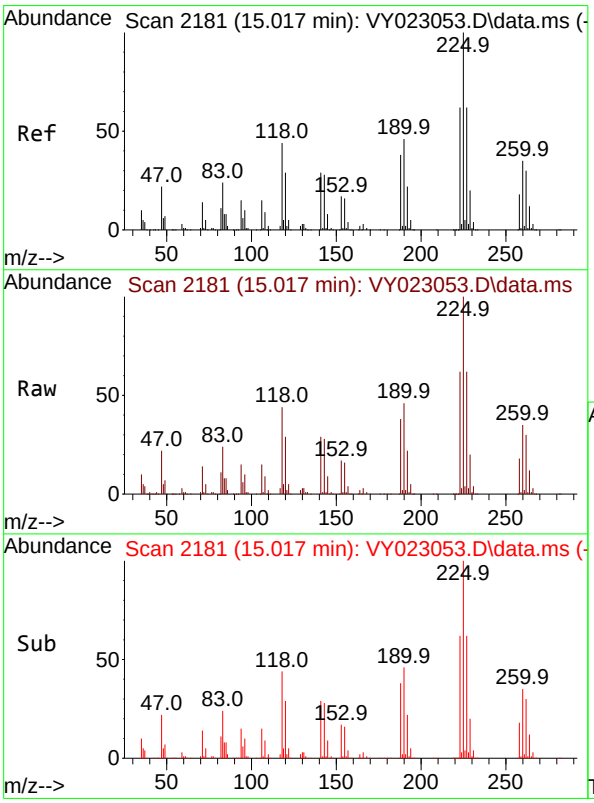
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.6 | 46.8 | 140.4 |
| 145 | 28.9 | 14.4 | 43.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

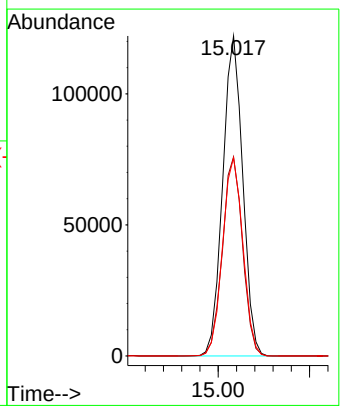
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

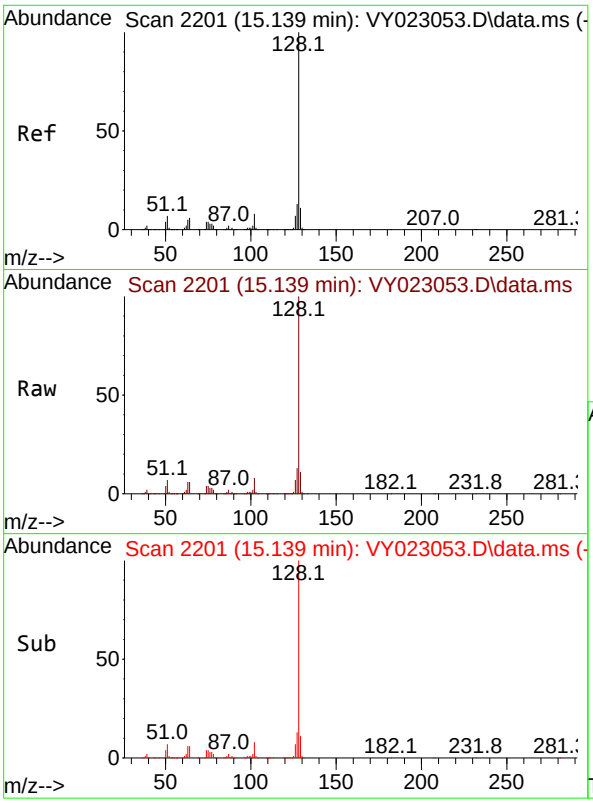



#94
Hexachlorobutadiene
Concen: 48.543 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:225 Resp: 185604

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.5 | 31.3 | 93.8 |
| 227 | 63.0 | 31.5 | 94.5 |

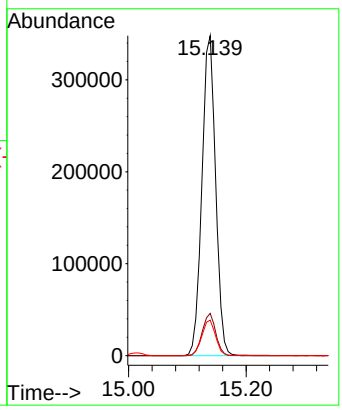





#95
Naphthalene
Concen: 50.685 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:128 Resp: 56236

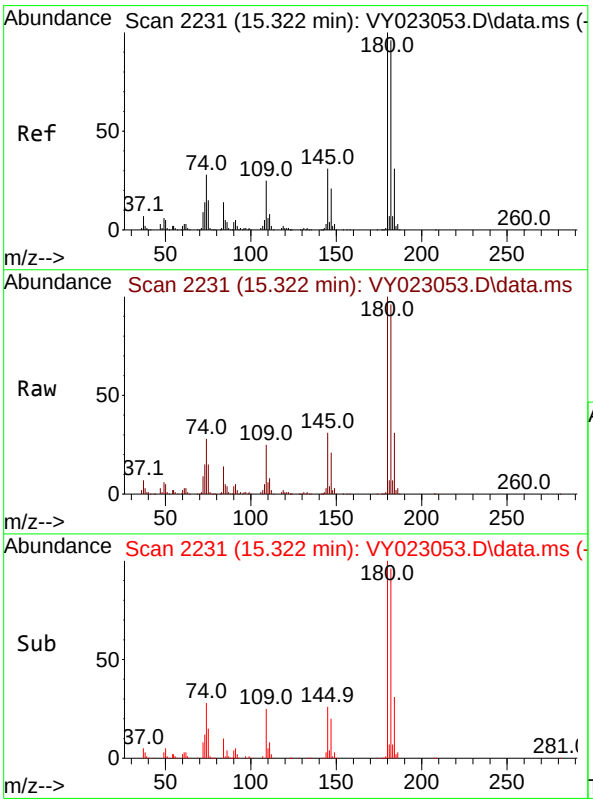
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.0 | 10.4 | 15.6 |
| 129 | 11.2 | 9.0 | 13.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

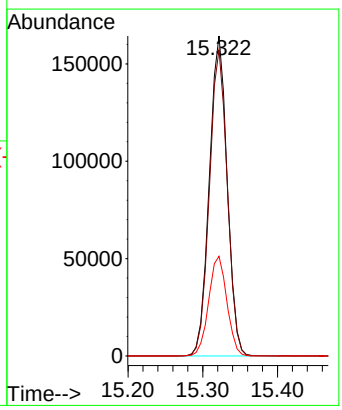
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025




#96
1,2,3-Trichlorobenzene
Concen: 48.540 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:180 Resp: 272154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.8 | 47.9 | 143.7 |
| 145 | 31.8 | 15.9 | 47.7 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023054.D
Acq On : 12 Aug 2025 16:25
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:54:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 558266 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.610 | 114 | 880463 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.408 | 117 | 784385 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 404136 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 527356 | 99.115 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 198.220%# | | | |
| 35) Dibromofluoromethane | 7.628 | 113 | 540106 | 102.518 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 205.040%# | | | |
| 50) Toluene-d8 | 10.103 | 98 | 2116445 | 102.832 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 205.660%# | | | |
| 62) 4-Bromofluorobenzene | 12.402 | 95 | 702583 | 106.147 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 212.300%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 376261 | 82.570 | ug/l | 98 |
| 3) Chloromethane | 2.068 | 50 | 673475 | 91.248 | ug/l | 99 |
| 4) Vinyl Chloride | 2.202 | 62 | 841648 | 92.250 | ug/l | 98 |
| 5) Bromomethane | 2.586 | 94 | 643103 | 94.384 | ug/l | 100 |
| 6) Chloroethane | 2.727 | 64 | 567515 | 93.563 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.050 | 101 | 1005284 | 90.617 | ug/l | 99 |
| 8) Diethyl Ether | 3.452 | 74 | 273400 | 93.150 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 3.812 | 101 | 497408 | 90.882 | ug/l | 99 |
| 10) Methyl Iodide | 4.001 | 142 | 629775 | 106.635 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.866 | 59 | 162373 | 445.387 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 506919 | 94.229 | ug/l | 95 |
| 13) Acrolein | 3.647 | 56 | 240580 | 450.599 | ug/l | 100 |
| 14) Allyl chloride | 4.379 | 41 | 759925 | 96.000 | ug/l | 99 |
| 15) Acrylonitrile | 5.049 | 53 | 555815 | 465.802 | ug/l | 99 |
| 16) Acetone | 3.867 | 43 | 522178 | 453.007 | ug/l | 97 |
| 17) Carbon Disulfide | 4.098 | 76 | 1622451 | 92.494 | ug/l | 100 |
| 18) Methyl Acetate | 4.379 | 43 | 312127 | 90.993 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 1342237 | 96.284 | ug/l | 100 |
| 20) Methylene Chloride | 4.610 | 84 | 570465 | 97.847 | ug/l | 98 |
| 21) trans-1,2-Dichloroethene | 5.110 | 96 | 580972 | 96.098 | ug/l | 99 |
| 22) Diisopropyl ether | 6.019 | 45 | 1686285 | 98.033 | ug/l | 99 |
| 23) Vinyl Acetate | 5.958 | 43 | 4632278 | 487.023 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.909 | 63 | 1012815 | 96.306 | ug/l | 100 |
| 25) 2-Butanone | 6.890 | 43 | 722555 | 460.899 | ug/l | 97 |
| 26) 2,2-Dichloropropane | 6.878 | 77 | 866598 | 95.497 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.884 | 96 | 681242 | 97.472 | ug/l | 100 |
| 28) Bromochloromethane | 7.244 | 49 | 409677 | 98.188 | ug/l | 100 |
| 29) Tetrahydrofuran | 7.256 | 42 | 451254 | 464.370 | ug/l | 100 |
| 30) Chloroform | 7.415 | 83 | 1045381 | 96.383 | ug/l | 96 |
| 31) Cyclohexane | 7.695 | 56 | 884707 | 89.271 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.610 | 97 | 929858 | 96.620 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.829 | 75 | 755114 | 96.443 | ug/l | 99 |
| 37) Ethyl Acetate | 6.982 | 43 | 313447 | 95.302 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.811 | 117 | 819941 | 96.419 | ug/l | 98 |
| 39) Methylcyclohexane | 9.103 | 83 | 1011944 | 98.146 | ug/l | 99 |
| 40) Benzene | 8.073 | 78 | 2348617 | 97.324 | ug/l | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023054.D
Acq On : 12 Aug 2025 16:25
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:54:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.220 | 41 | 180468 | 94.973 | ug/l | | 98 |
| 42) 1,2-Dichloroethane | 8.152 | 62 | 597215 | 95.155 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.195 | 43 | 636710 | 95.780 | ug/l | | 99 |
| 44) Trichloroethene | 8.860 | 130 | 602322 | 96.584 | ug/l | | 97 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 543589 | 97.899 | ug/l | | 99 |
| 46) Dibromomethane | 9.225 | 93 | 309302 | 97.052 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.420 | 83 | 802532 | 97.864 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.219 | 41 | 319906 | 100.567 | ug/l | | 99 |
| 49) 1,4-Dioxane | 9.225 | 88 | 71300 | 1908.039 | ug/l | | 94 |
| 51) 4-Methyl-2-Pentanone | 9.994 | 43 | 1669668 | 486.924 | ug/l | | 100 |
| 52) Toluene | 10.164 | 92 | 1537088 | 100.288 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 754278 | 101.574 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 880571 | 100.281 | ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 10.567 | 97 | 415556 | 97.446 | ug/l | | 99 |
| 56) Ethyl methacrylate | 10.432 | 69 | 569556 | 104.375 | ug/l | | 100 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 696130 | 96.253 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 1389847 | 539.957 | ug/l | | 99 |
| 59) 2-Hexanone | 10.756 | 43 | 1151000 | 492.950 | ug/l | | 100 |
| 60) Dibromochloromethane | 10.902 | 129 | 557205 | 99.024 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.012 | 107 | 391650 | 97.713 | ug/l | | 98 |
| 64) Tetrachloroethene | 10.640 | 164 | 615871 | 87.931 | ug/l | | 98 |
| 65) Chlorobenzene | 11.438 | 112 | 1658154 | 98.004 | ug/l | | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 11.512 | 131 | 573131 | 99.810 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.512 | 91 | 2914020 | 100.082 | ug/l | | 98 |
| 68) m/p-Xylenes | 11.621 | 106 | 2312597 | 203.363 | ug/l | | 98 |
| 69) o-Xylene | 11.950 | 106 | 1100998 | 103.373 | ug/l | | 99 |
| 70) Styrene | 11.963 | 104 | 1845480 | 105.953 | ug/l | | 99 |
| 71) Bromoform | 12.127 | 173 | 334886 | 99.786 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.249 | 105 | 2839999 | 99.567 | ug/l | | 99 |
| 74) N-amyl acetate | 12.066 | 43 | 610668 | 100.955 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.499 | 83 | 469810 | 96.464 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.548 | 75 | 330554m | 84.695 | ug/l | | |
| 77) Bromobenzene | 12.524 | 156 | 671329 | 98.655 | ug/l | | 98 |
| 78) n-propylbenzene | 12.591 | 91 | 3360679 | 98.963 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.670 | 91 | 1931460 | 99.268 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.731 | 105 | 2321527 | 100.707 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.298 | 75 | 153260 | 95.118 | ug/l | | 100 |
| 82) 4-Chlorotoluene | 12.767 | 91 | 1988544 | 98.519 | ug/l | | 100 |
| 83) tert-Butylbenzene | 12.993 | 119 | 2125785 | 102.102 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.036 | 105 | 2339432 | 101.946 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.170 | 105 | 3056373 | 99.932 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.286 | 119 | 2610936 | 102.846 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.280 | 146 | 1338547 | 99.748 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.359 | 146 | 1290840 | 96.970 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.609 | 91 | 2370706 | 101.675 | ug/l | | 100 |
| 90) Hexachloroethane | 13.871 | 117 | 510900 | 98.308 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 13.651 | 146 | 1162152 | 98.749 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.267 | 75 | 69736 | 91.965 | ug/l | | 97 |
| 93) 1,2,4-Trichlorobenzene | 14.913 | 180 | 692201 | 99.460 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 15.017 | 225 | 387707 | 94.803 | ug/l | | 99 |
| 95) Naphthalene | 15.133 | 128 | 1212227 | 102.147 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.322 | 180 | 587990 | 98.046 | ug/l | | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023054.D
Acq On : 12 Aug 2025 16:25
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:54:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

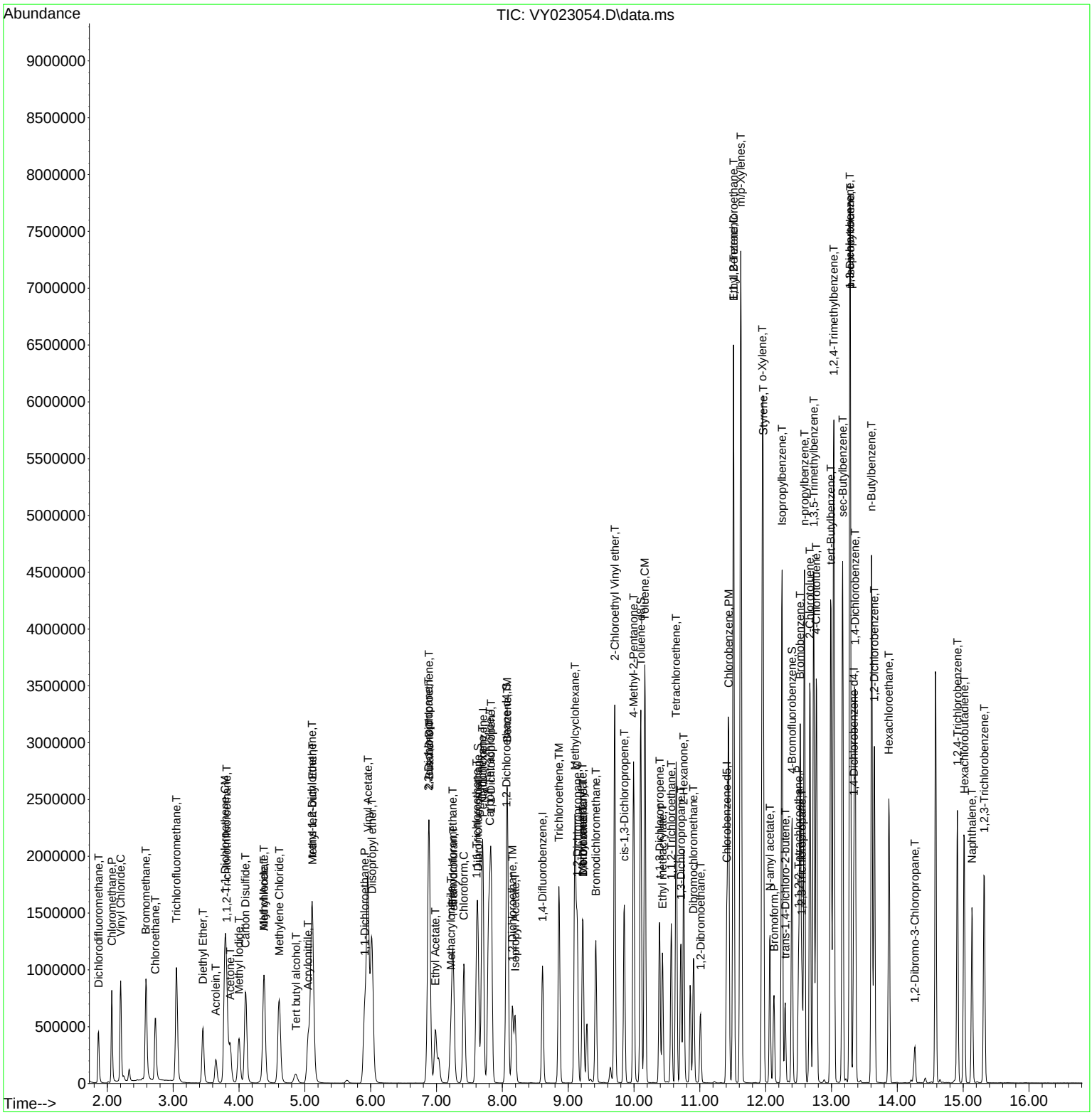
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023054.D
Acq On : 12 Aug 2025 16:25
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

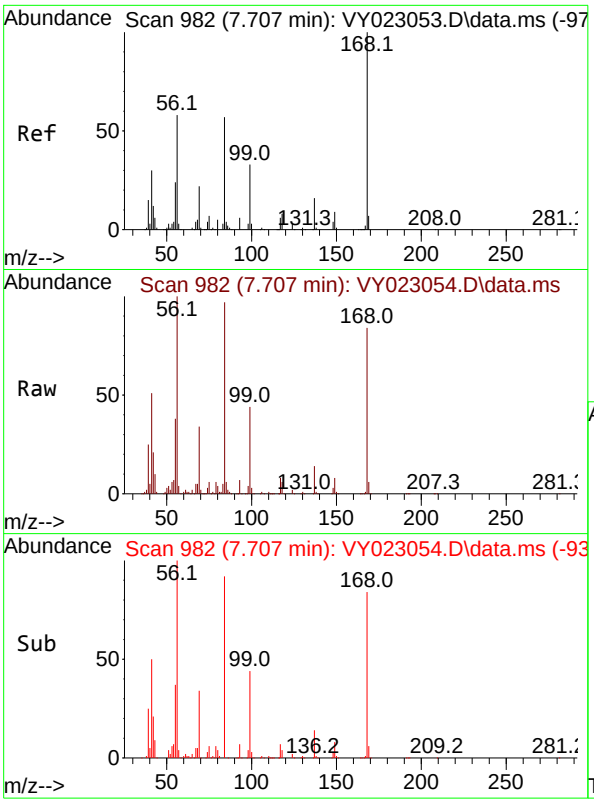
Quant Time: Aug 13 01:54:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

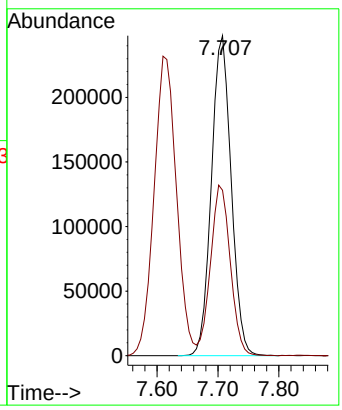





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:168 Resp: 55826

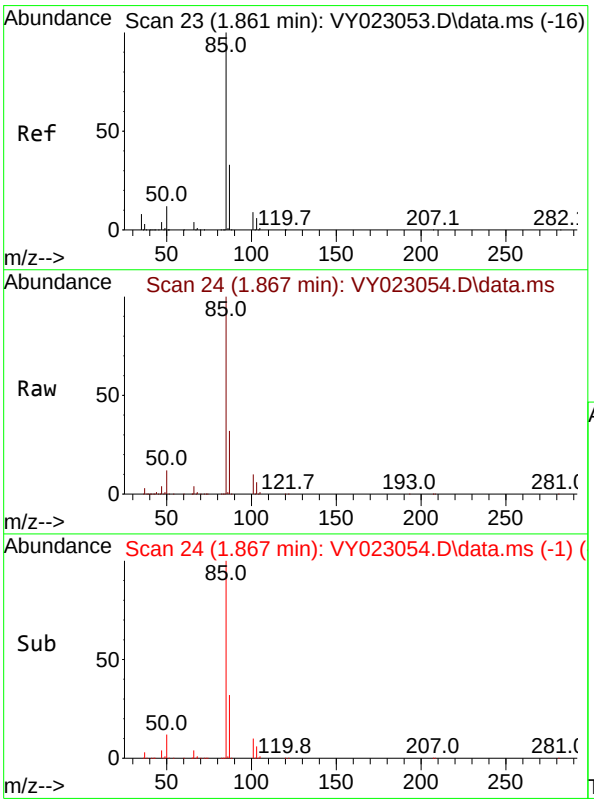
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 51.7 | 42.8 | 64.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

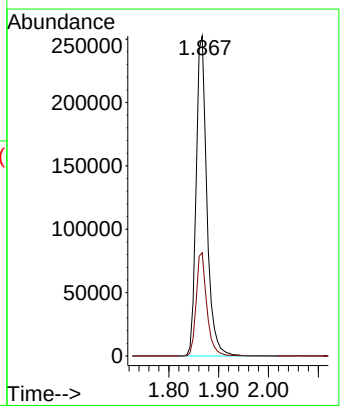
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

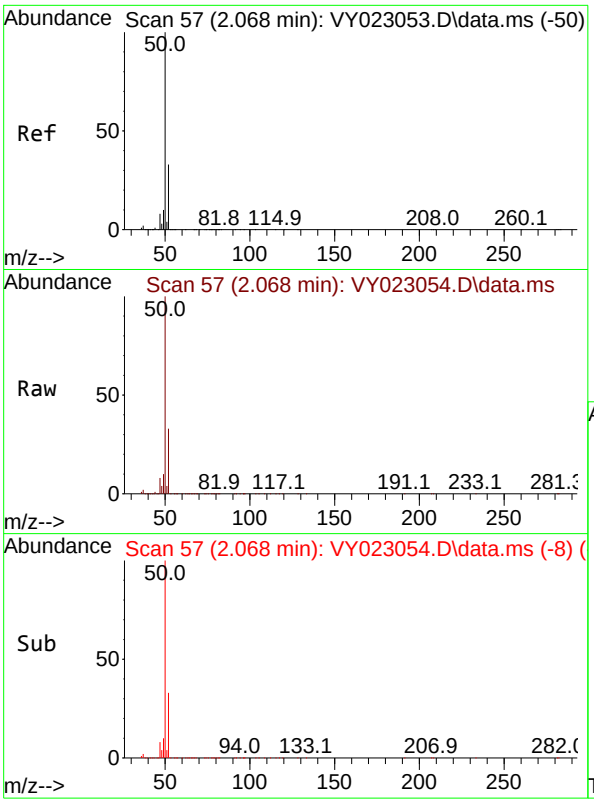



#2
Dichlorodifluoromethane
Concen: 82.570 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 85 Resp: 376261

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.3 | 16.6 | 49.8 |

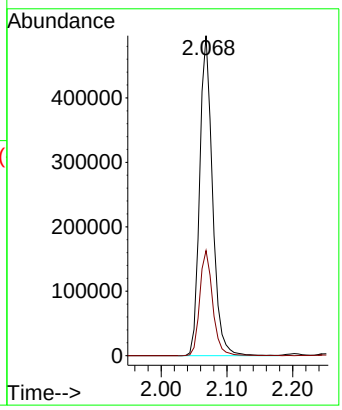





#3
Chloromethane
Concen: 91.248 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 50 Resp: 67347

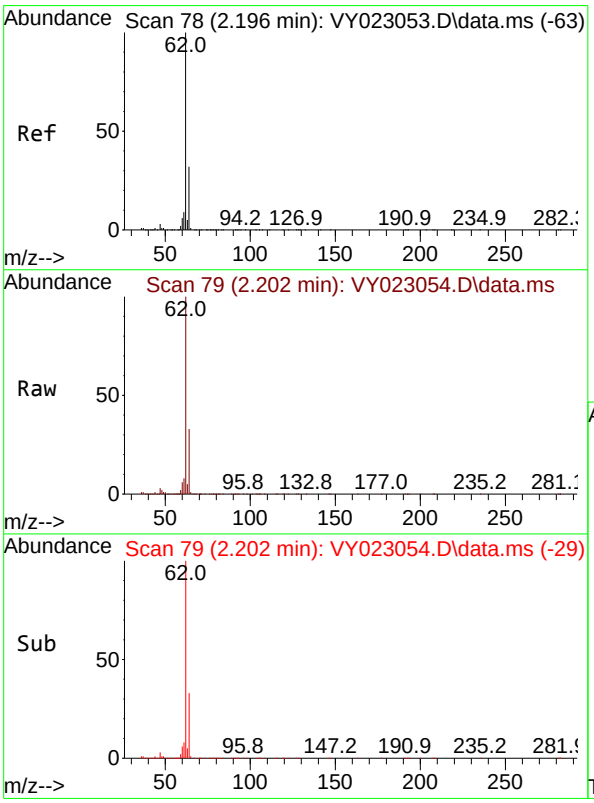
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.9 | 26.7 | 40.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

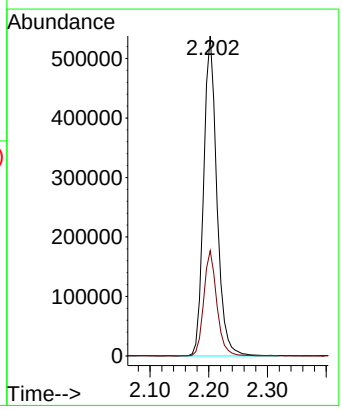
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

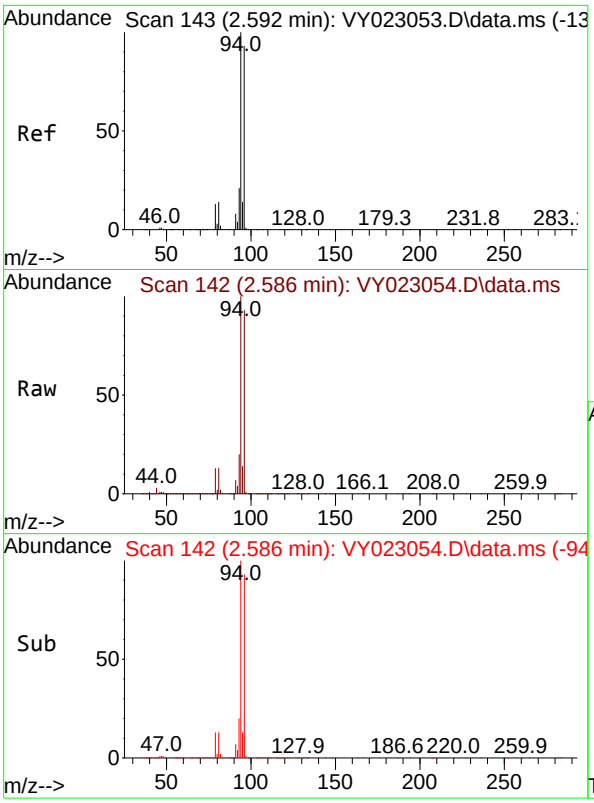



#4
Vinyl Chloride
Concen: 92.250 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 62 Resp: 841648

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.9 | 25.4 | 38.0 |






#5
Bromomethane
Concen: 94.384 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

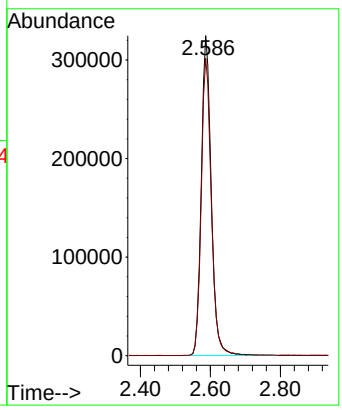
Tgt Ion: 94 Resp: 64310

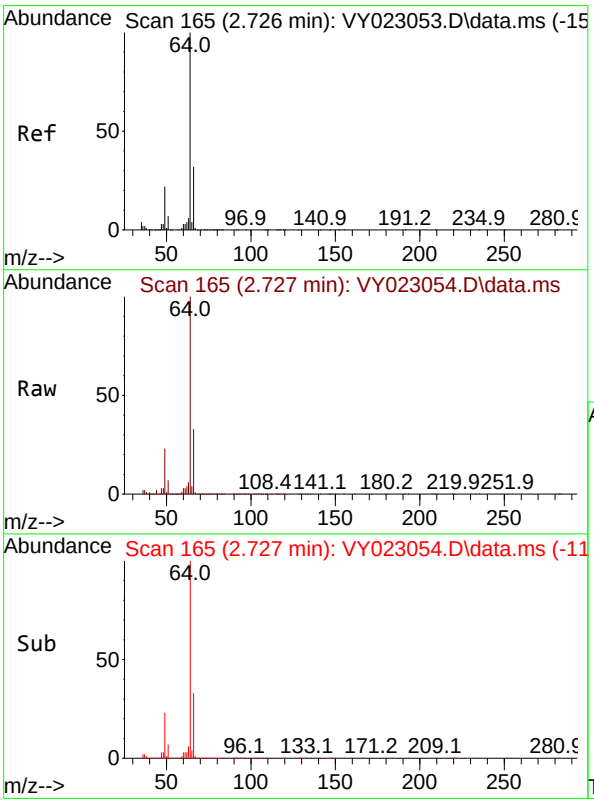
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 92.9 | 74.6 | 112.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

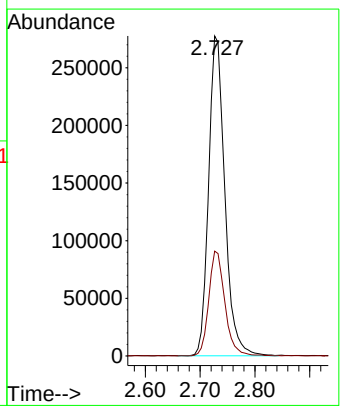


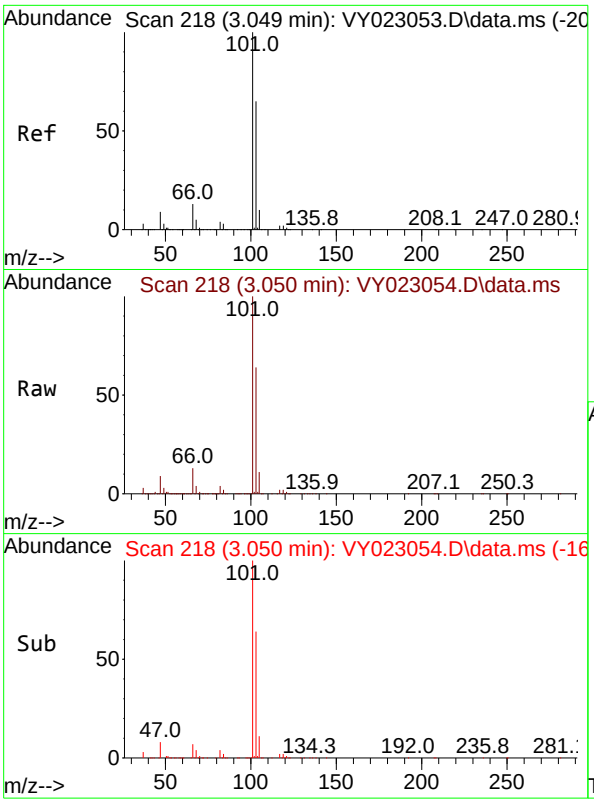




#6
Chloroethane
Concen: 93.563 ug/l
RT: 2.727 min Scan# 165
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 64 Resp: 567515

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.7 | 25.8 | 38.6 |

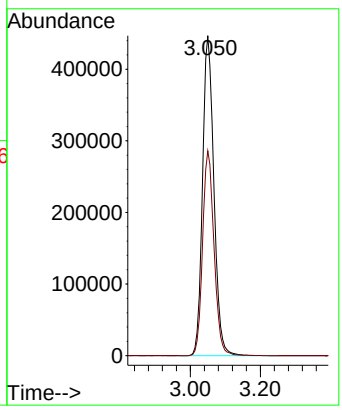





#7
Trichlorofluoromethane
Concen: 90.617 ug/l
RT: 3.050 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:101 Resp: 100528

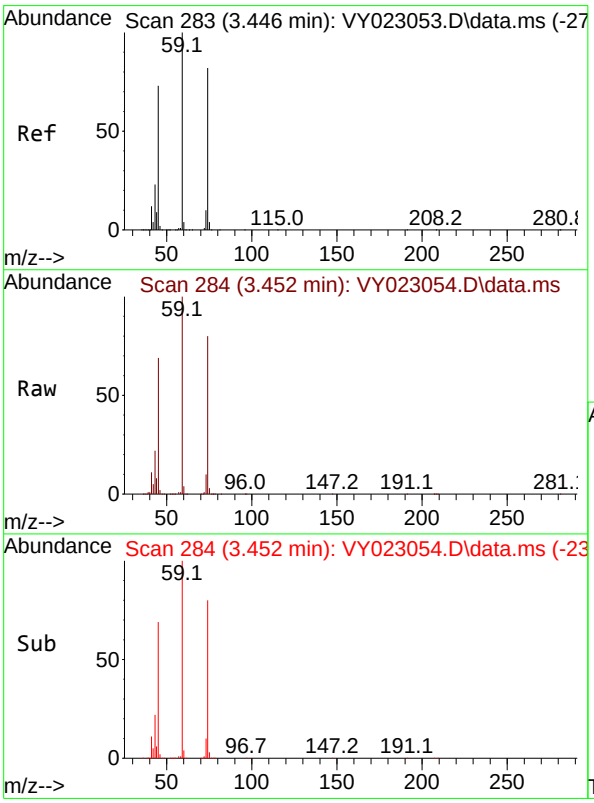
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.0 | 51.9 | 77.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

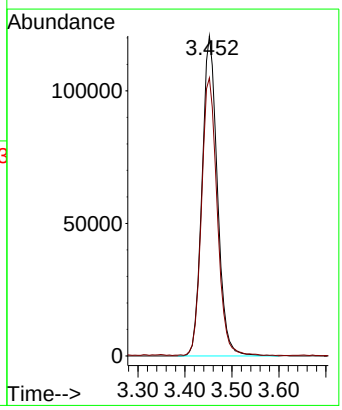
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

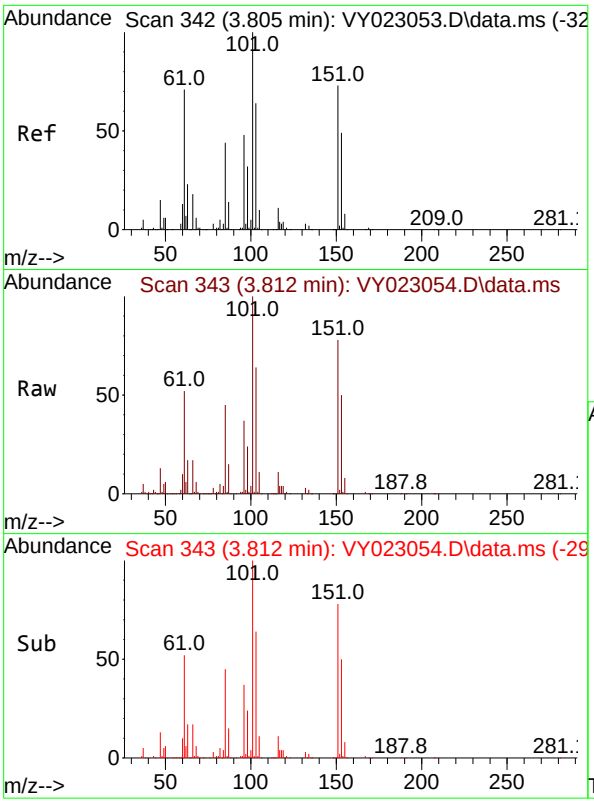



#8
Diethyl Ether
Concen: 93.150 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 74 Resp: 273400

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 88.2 | 44.4 | 133.2 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 90.882 ug/l
RT: 3.812 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

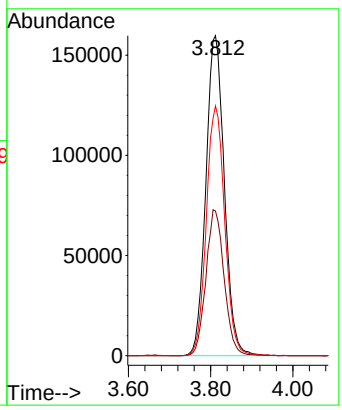
Tgt Ion:101 Resp: 49740

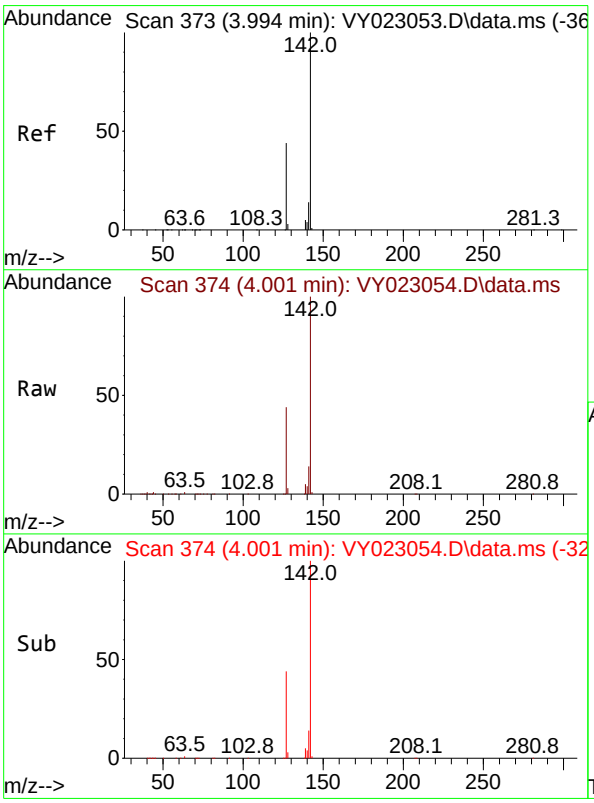
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 45.0 | 36.3 | 54.5 |
| 151 | 77.9 | 61.5 | 92.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

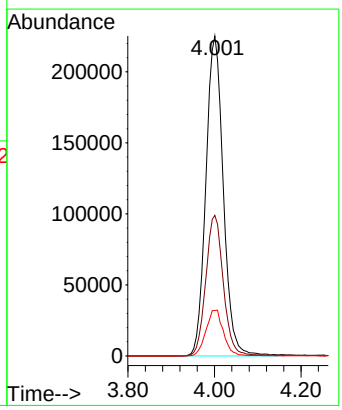


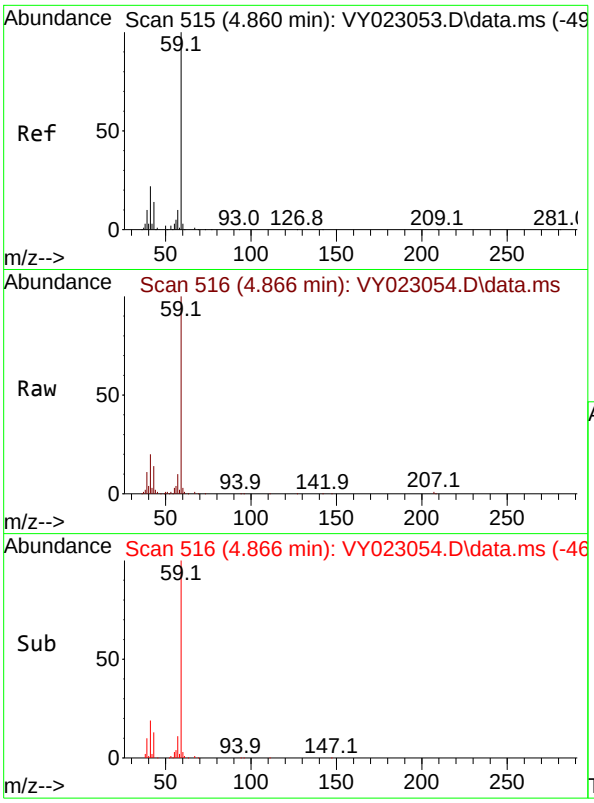




#10
Methyl Iodide
Concen: 106.635 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:142 Resp: 629775

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 44.2 | 34.9 | 52.3 |
| 141 | 14.4 | 11.3 | 16.9 |

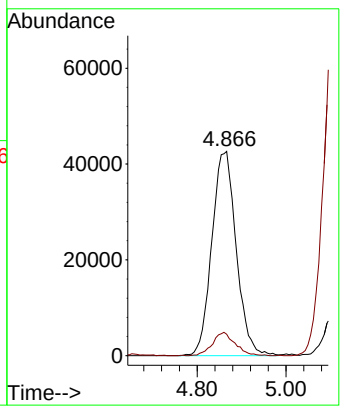





#11
Tert butyl alcohol
Concen: 445.387 ug/l
RT: 4.866 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 59 Resp: 16237

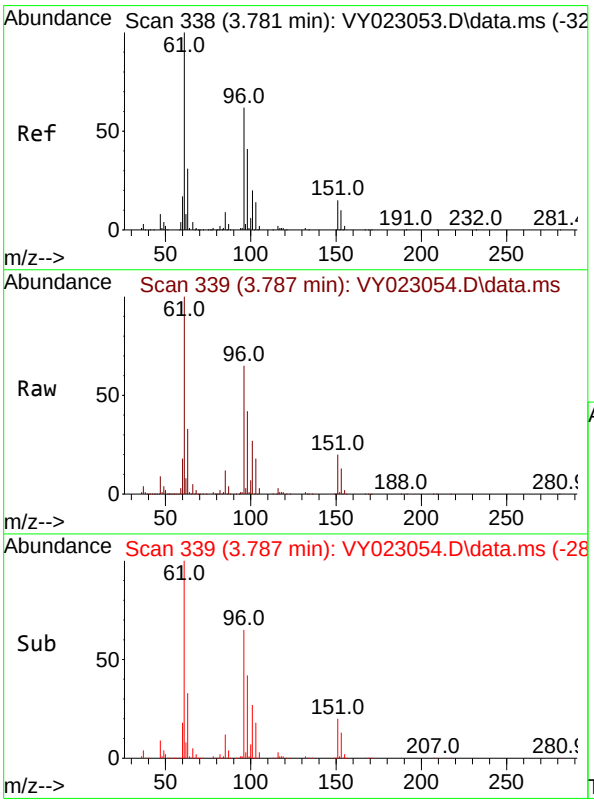
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.6 | 8.6 | 13.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

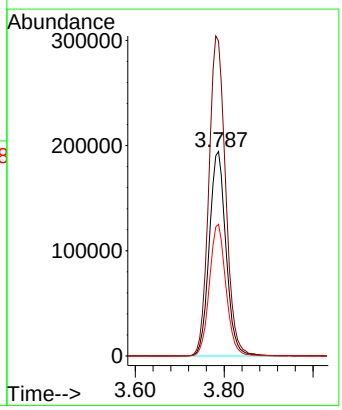
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

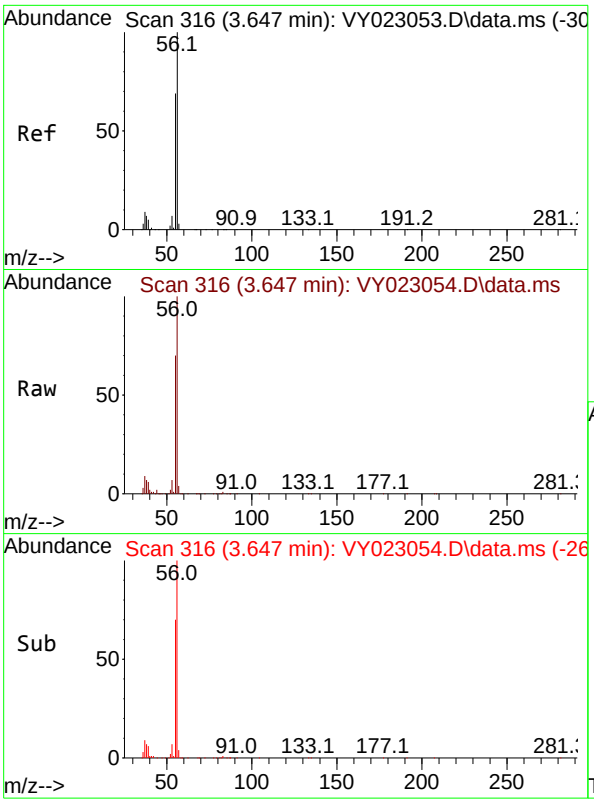



#12
1,1-Dichloroethene
Concen: 94.229 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 96 Resp: 506919

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 154.0 | 129.4 | 194.2 |
| 98 | 64.4 | 52.8 | 79.2 |

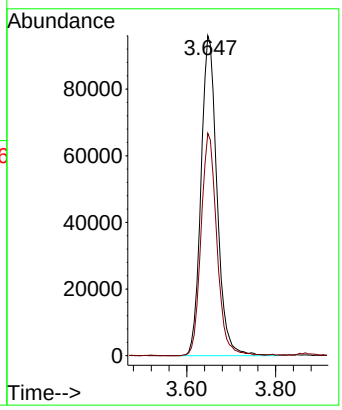





#13
Acrolein
Concen: 450.599 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 56 Resp: 24058

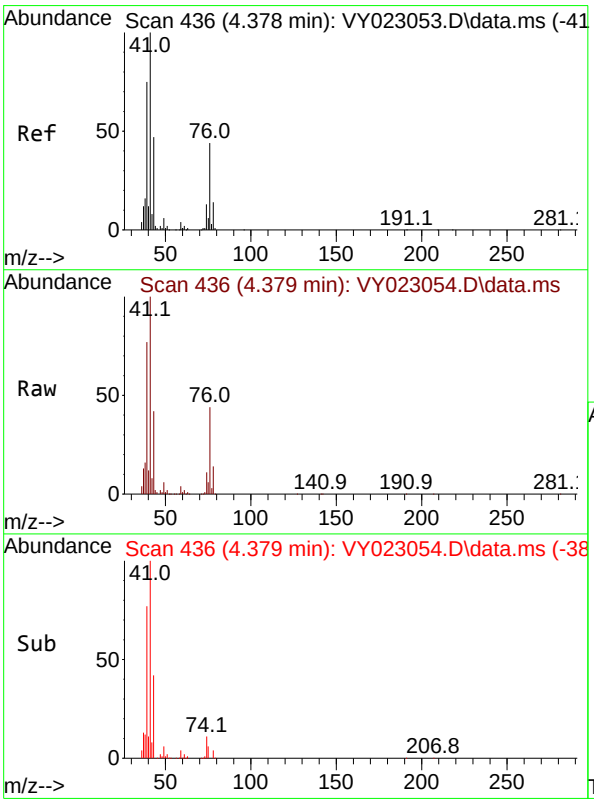
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 68.9 | 55.2 | 82.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

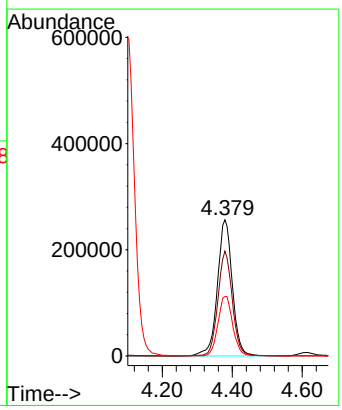
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

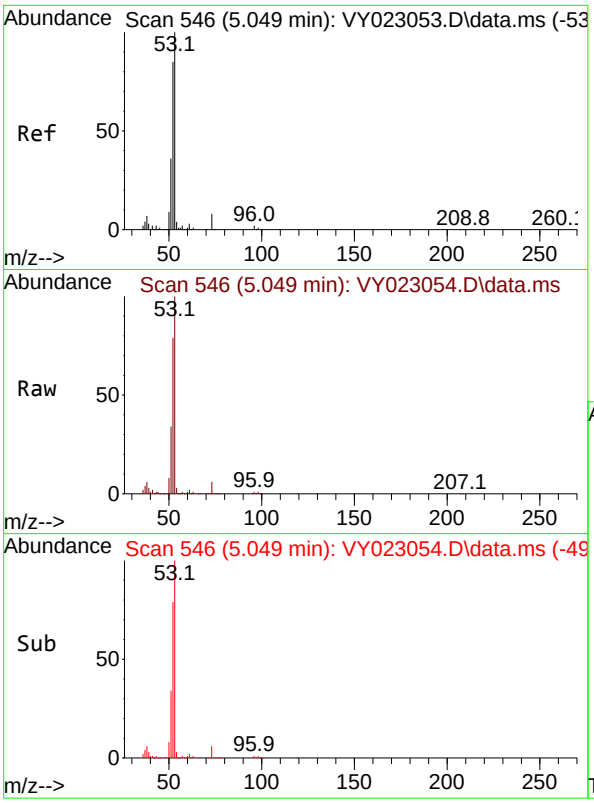



#14
Allyl chloride
Concen: 96.000 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 41 Resp: 759925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 74.3 | 59.8 | 89.6 |
| 76 | 43.0 | 33.7 | 50.5 |






#15
Acrylonitrile
Concen: 465.802 ug/l
RT: 5.049 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

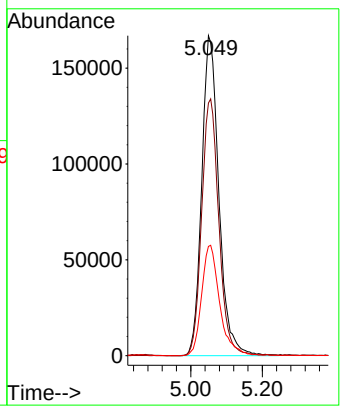
Tgt Ion: 53 Resp: 55581

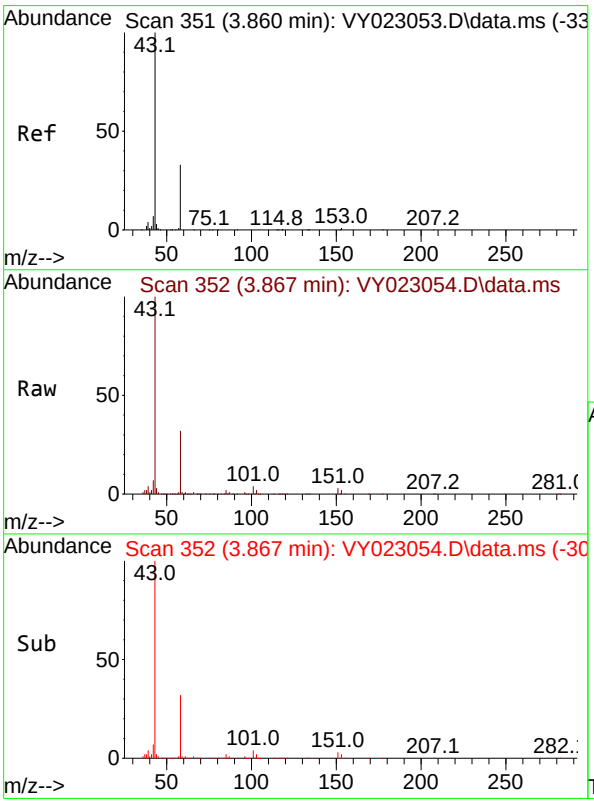
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 80.3 | 65.3 | 97.9 |
| 51 | 36.3 | 29.5 | 44.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

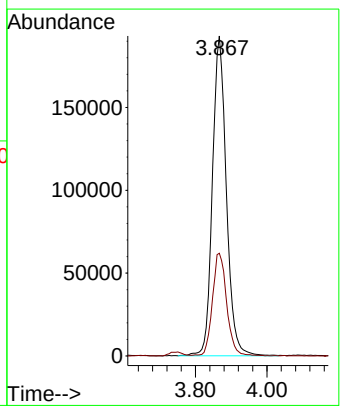


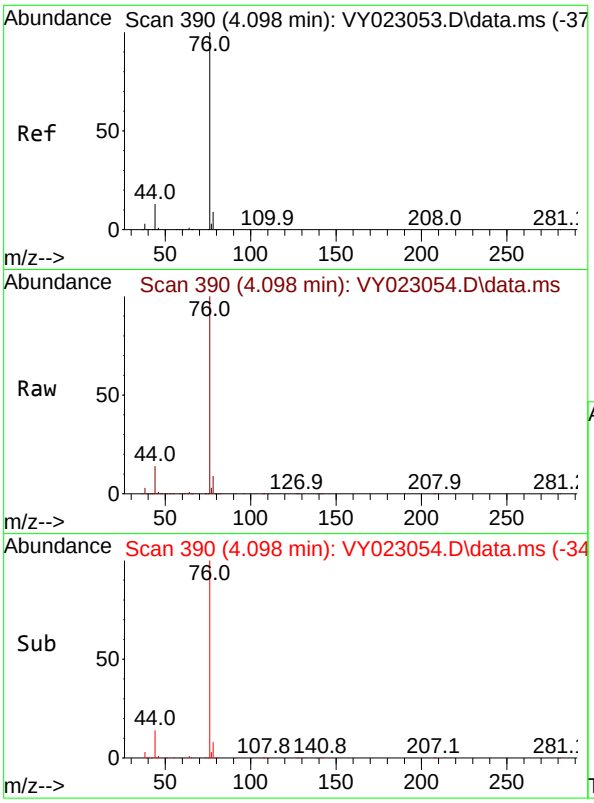




#16
Acetone
Concen: 453.007 ug/l
RT: 3.867 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 43 Resp: 522178

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.1 | 27.1 | 40.7 |

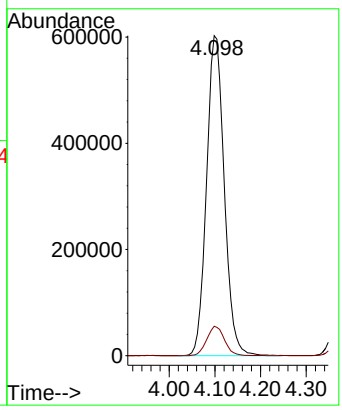





#17
Carbon Disulfide
Concen: 92.494 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 76 Resp: 162245

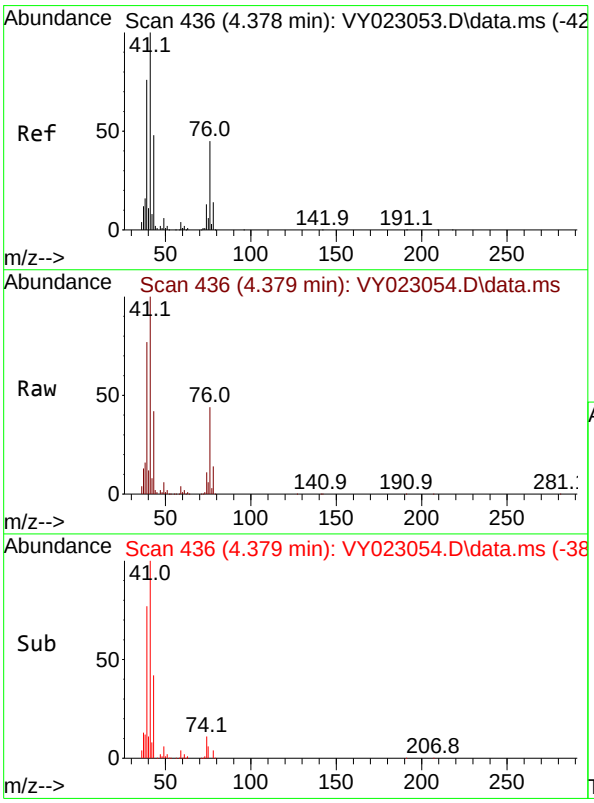
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.2 | 7.4 | 11.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

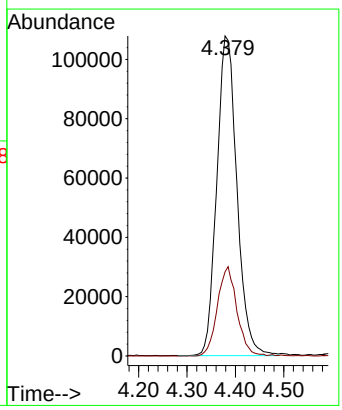
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

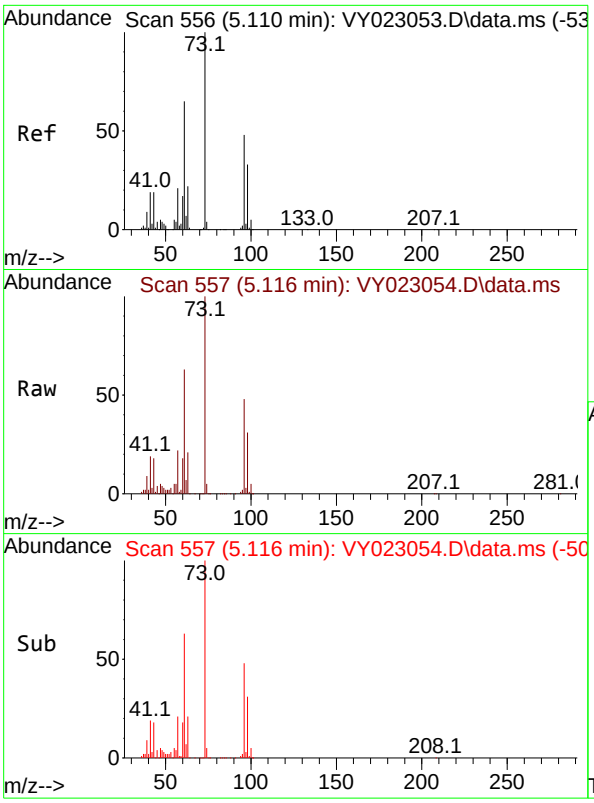



#18
Methyl Acetate
Concen: 90.993 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 43 Resp: 312127

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 27.1 | 21.2 | 31.8 |

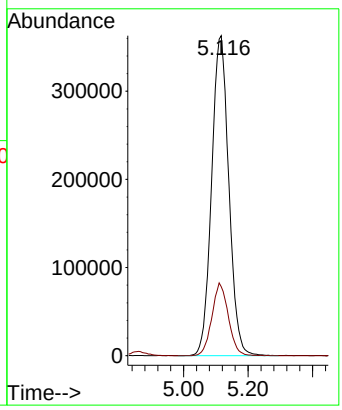





#19
Methyl tert-butyl Ether
Concen: 96.284 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 73 Resp: 134223

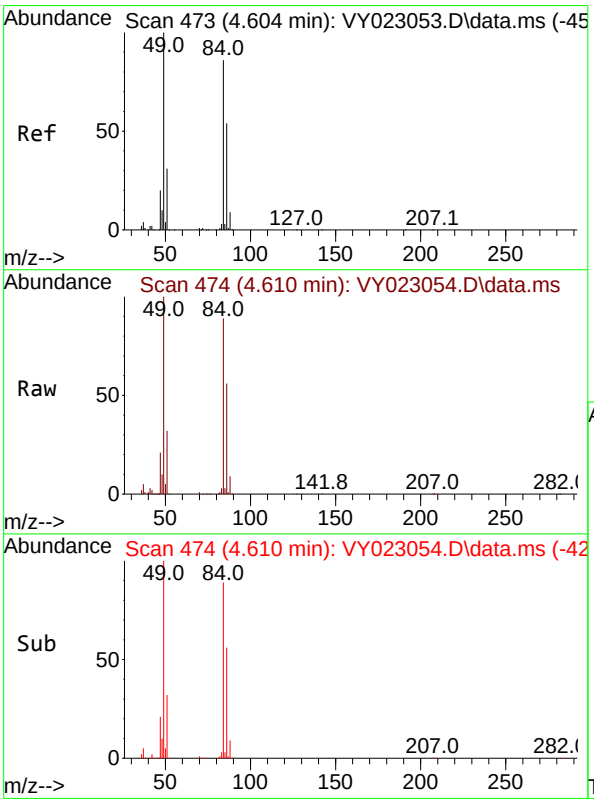
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.5 | 17.1 | 25.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

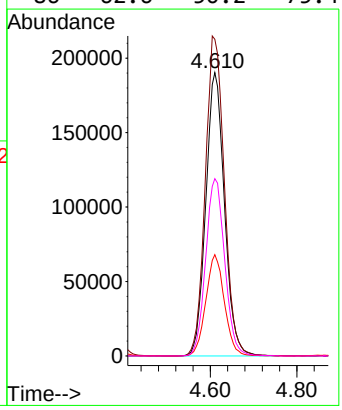
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

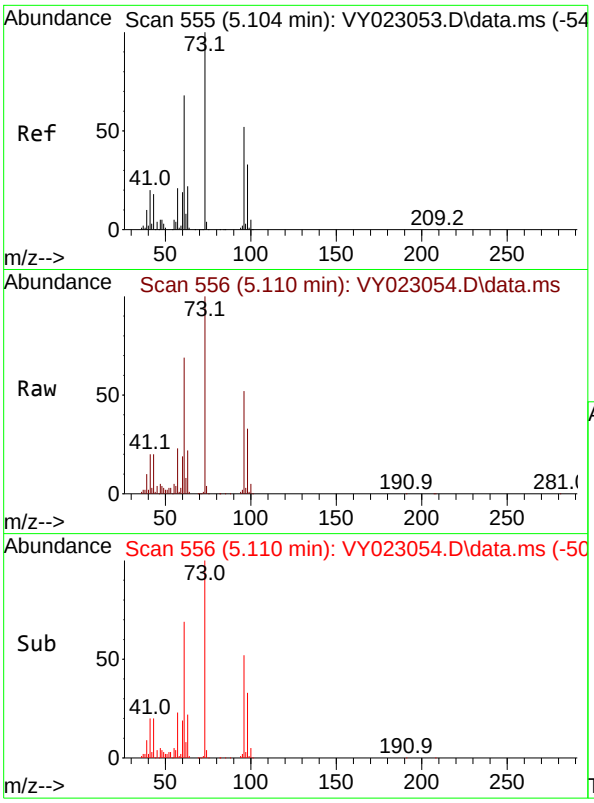



#20
Methylene Chloride
Concen: 97.847 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 84 Resp: 570465

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 111.7 | 93.0 | 139.6 |
| 51 | 35.7 | 29.0 | 43.4 |
| 86 | 62.6 | 50.2 | 75.4 |

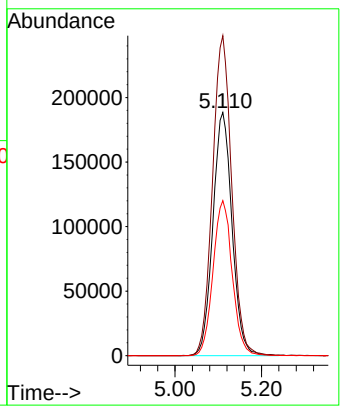





#21
trans-1,2-Dichloroethene
Concen: 96.098 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 96 Resp: 58097

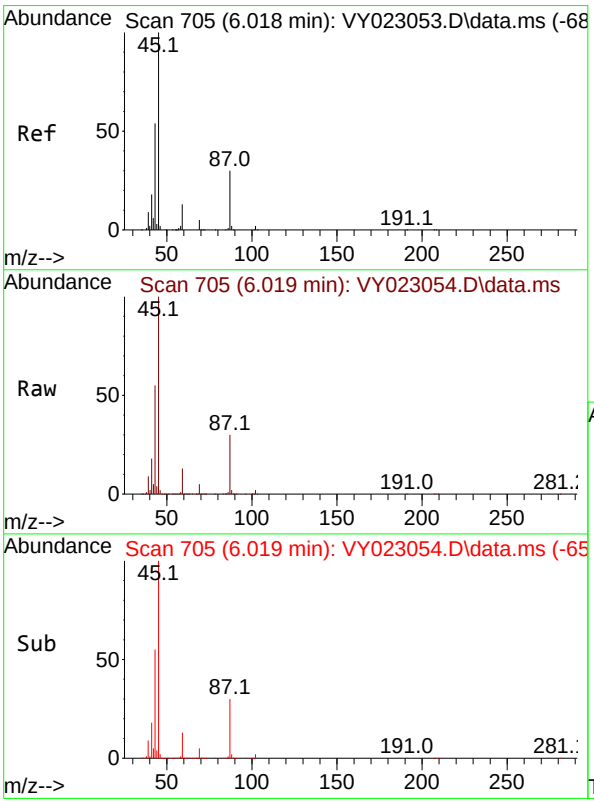
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 131.5 | 104.8 | 157.2 |
| 98 | 63.8 | 50.1 | 75.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

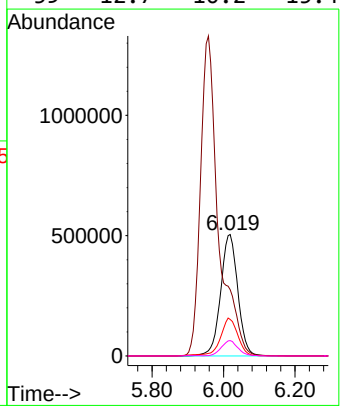
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

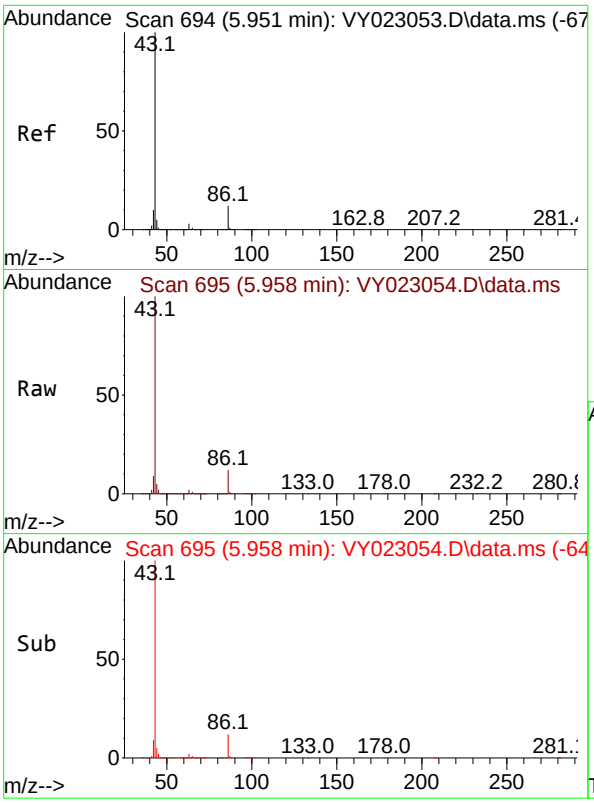



#22
Diisopropyl ether
Concen: 98.033 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 45 Resp: 1686285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 54.5 | 43.4 | 65.0 |
| 87 | 30.0 | 24.4 | 36.6 |
| 59 | 12.7 | 10.2 | 15.4 |

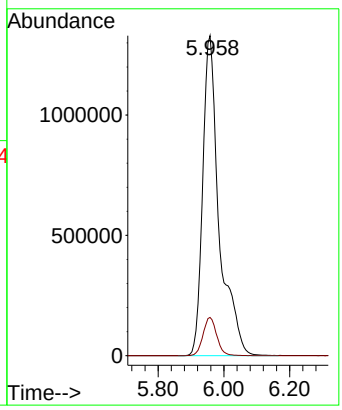





#23
Vinyl Acetate
Concen: 487.023 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 43 Resp: 463227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.9 | 9.6 | 14.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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Reviewed By :Mahesh Dadoda 08/14/2025
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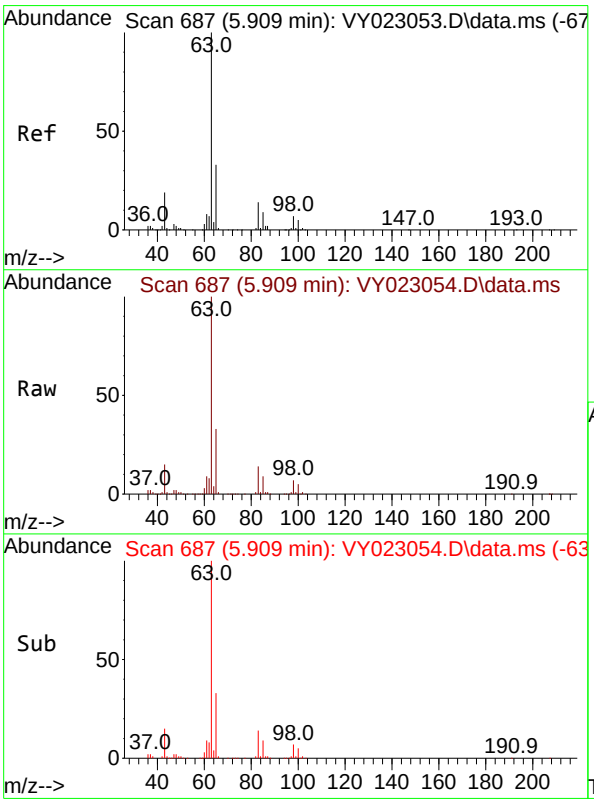
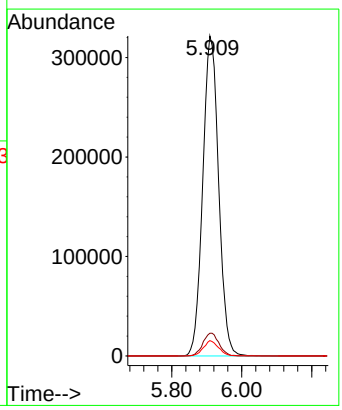
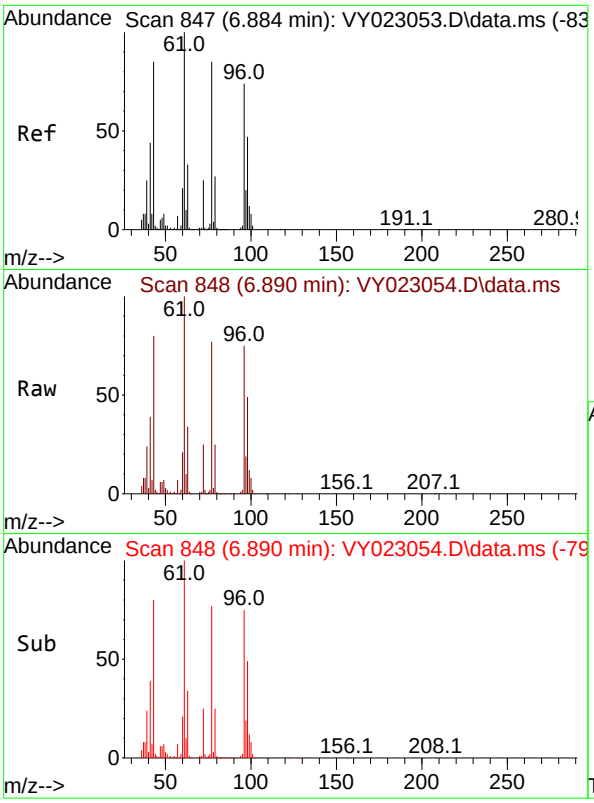



#24
1,1-Dichloroethane
Concen: 96.306 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 63 Resp: 1012815

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.1 | 3.5 | 10.6 |
| 100 | 4.8 | 2.4 | 7.1 |

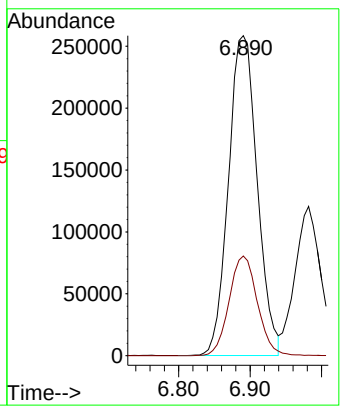





#25
2-Butanone
Concen: 460.899 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 43 Resp: 72255

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 31.2 | 23.5 | 35.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
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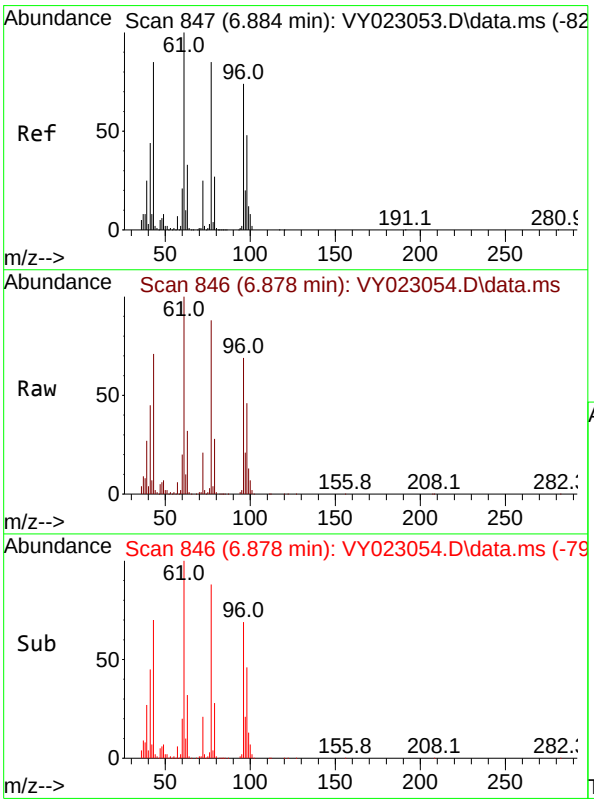
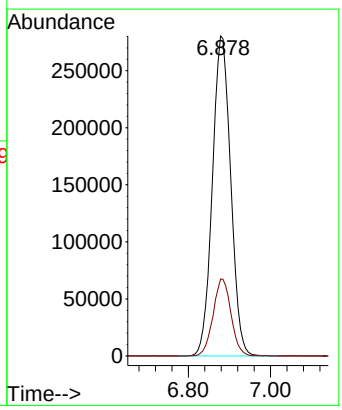
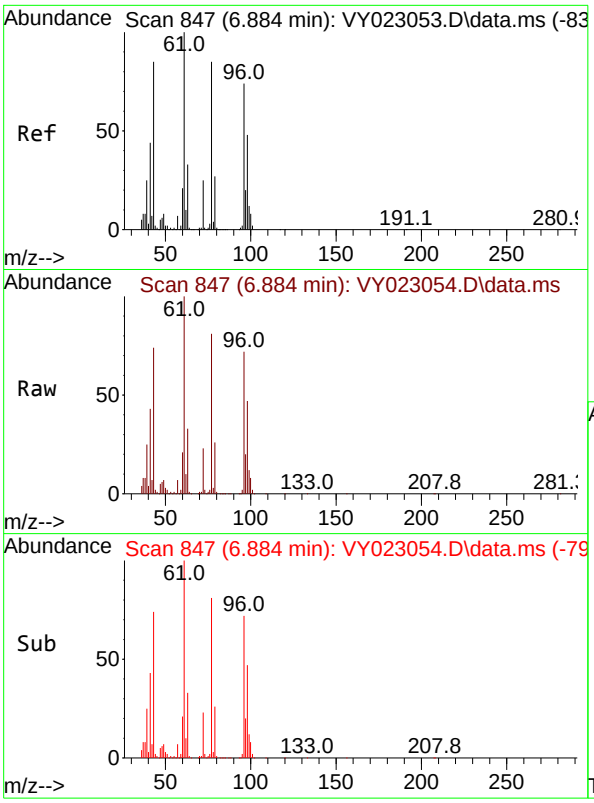



#26
2,2-Dichloropropane
Concen: 95.497 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 77 Resp: 866598

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.6 | 11.6 | 34.8 |

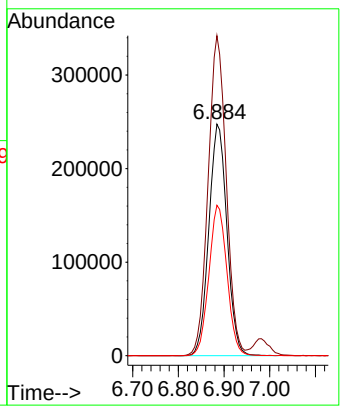





#27
cis-1,2-Dichloroethene
Concen: 97.472 ug/l
RT: 6.884 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 96 Resp: 68124

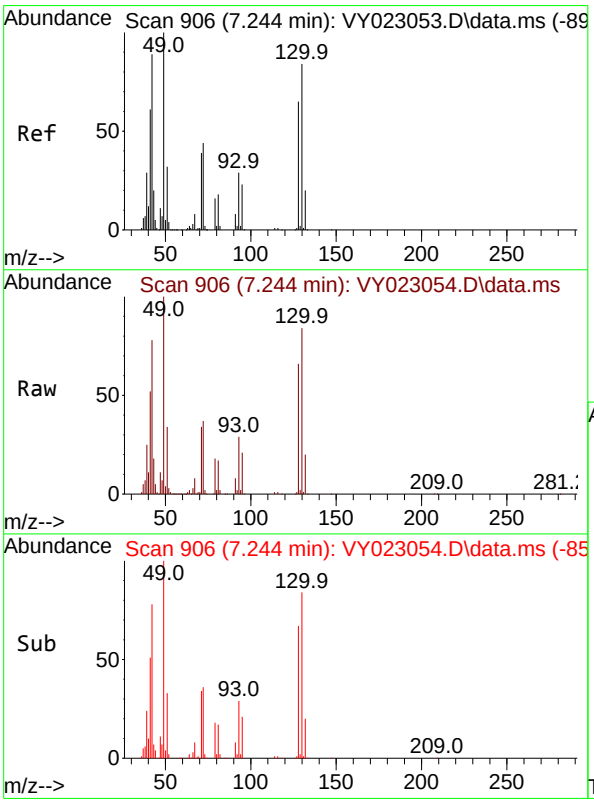
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 138.6 | 0.0 | 278.6 |
| 98 | 65.0 | 0.0 | 130.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

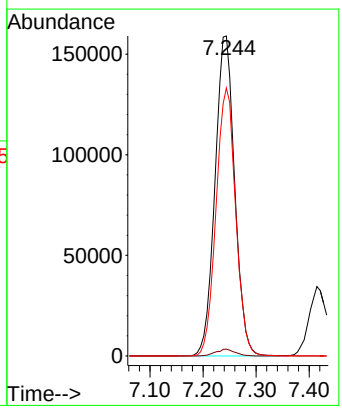
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

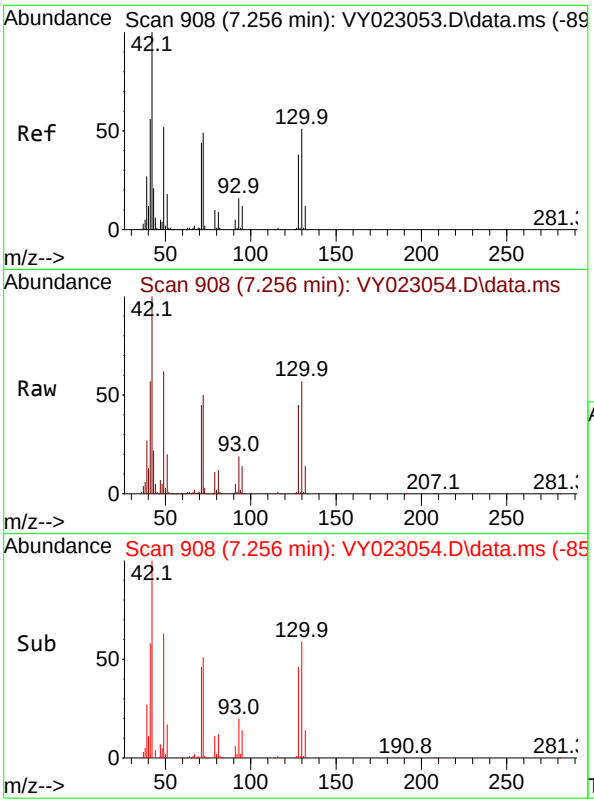



#28
Bromochloromethane
Concen: 98.188 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 49 Resp: 409677

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.1 | 0.0 | 4.2 |
| 130 | 83.4 | 66.4 | 99.6 |

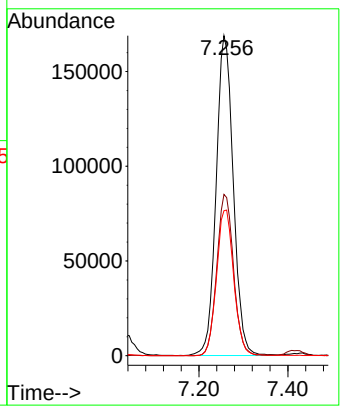





#29
Tetrahydrofuran
Concen: 464.370 ug/l
RT: 7.256 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 42 Resp: 45125

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 49.4 | 39.4 | 59.2 |
| 71 | 45.8 | 36.5 | 54.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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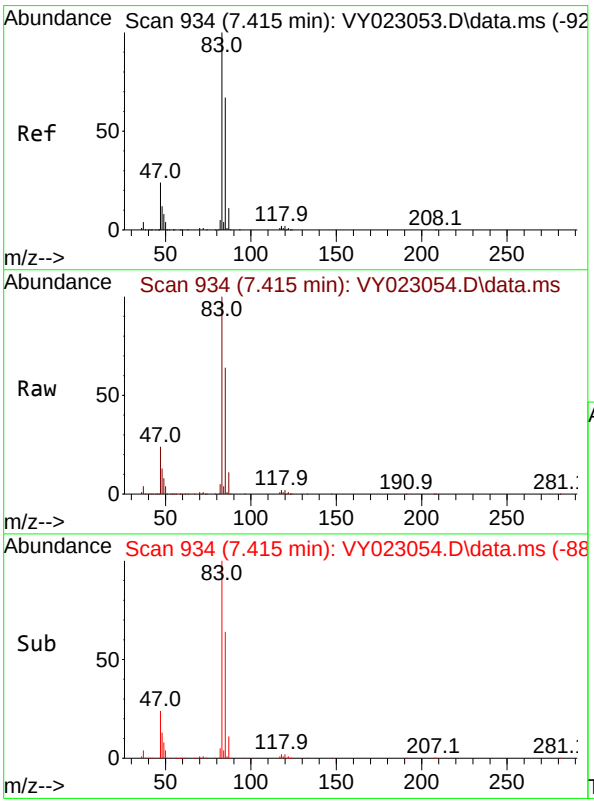
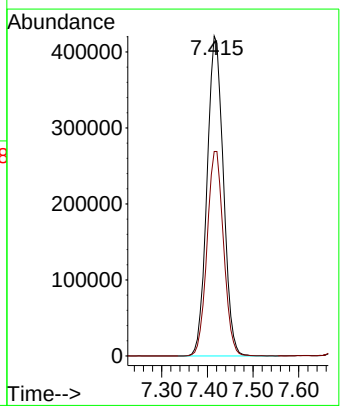
Supervised By :Semsettin Yesilyurt 08/14/2025

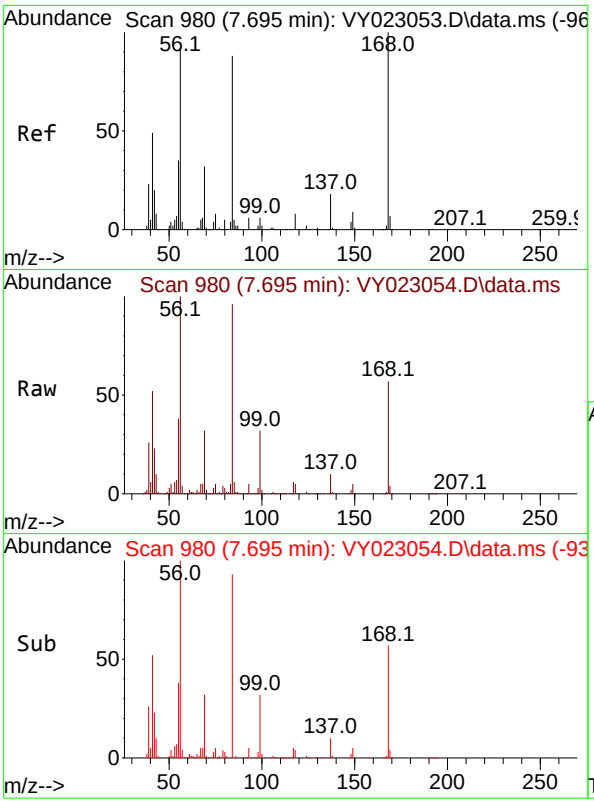



#30
Chloroform
Concen: 96.383 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 83 Resp: 1045381

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.9 | 53.8 | 80.8 |






#31
Cyclohexane
Concen: 89.271 ug/l
RT: 7.695 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

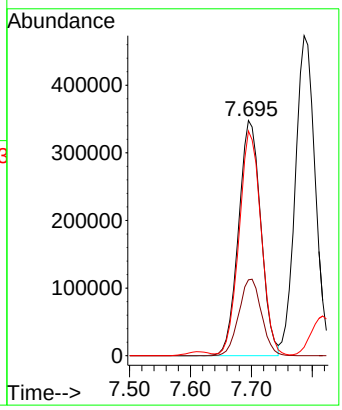
Tgt Ion: 56 Resp: 88470

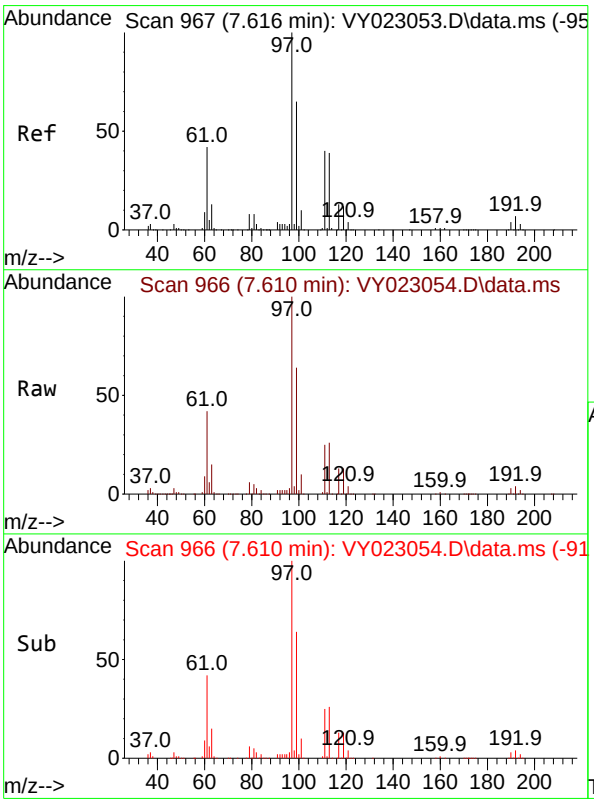
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 32.3 | 28.2 | 42.2 |
| 84 | 95.2 | 76.6 | 114.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

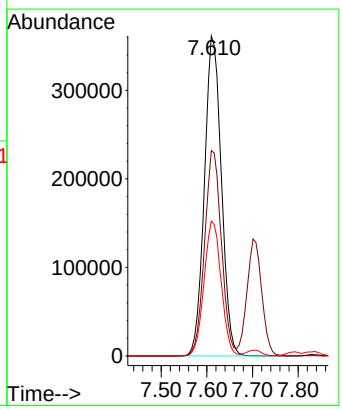


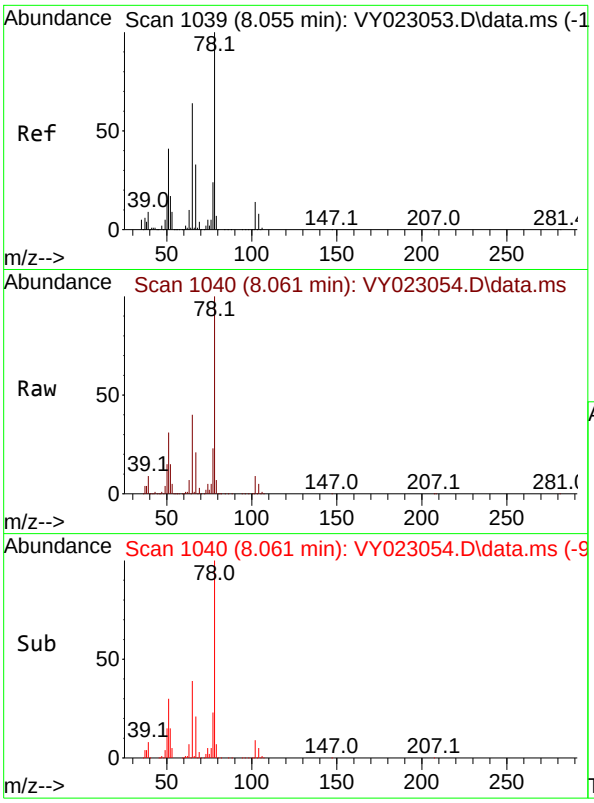




#32
1,1,1-Trichloroethane
Concen: 96.620 ug/l
RT: 7.610 min Scan# 966
Delta R.T. -0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 97 Resp: 929858

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.9 | 51.6 | 77.4 |
| 61 | 42.5 | 34.2 | 51.2 |

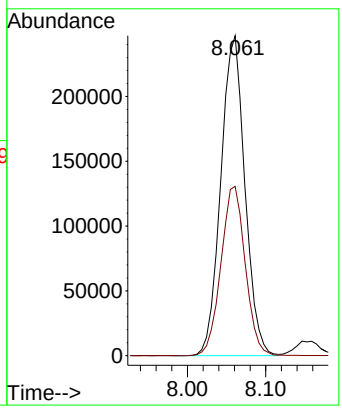





#33
1,2-Dichloroethane-d4
Concen: 99.115 ug/l
RT: 8.061 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 65 Resp: 52735(

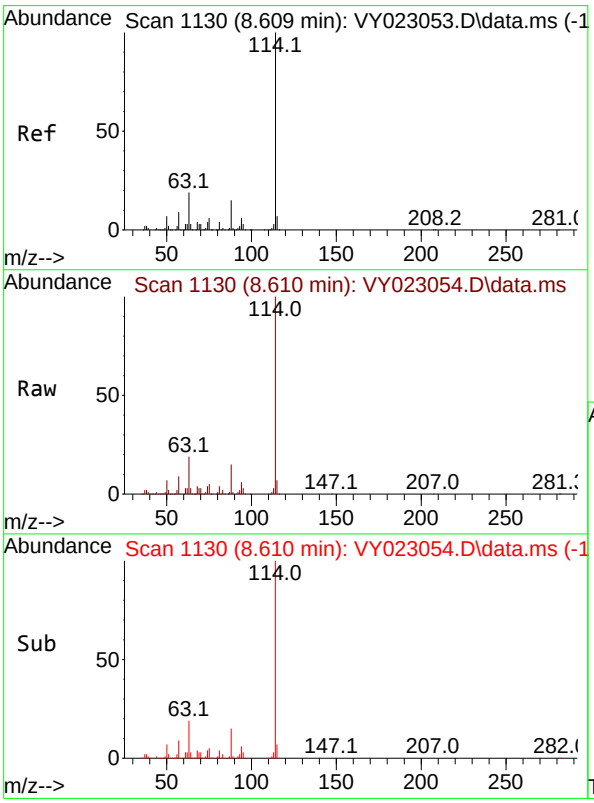
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.5 | 0.0 | 106.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

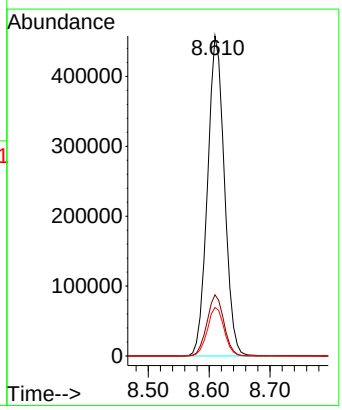
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

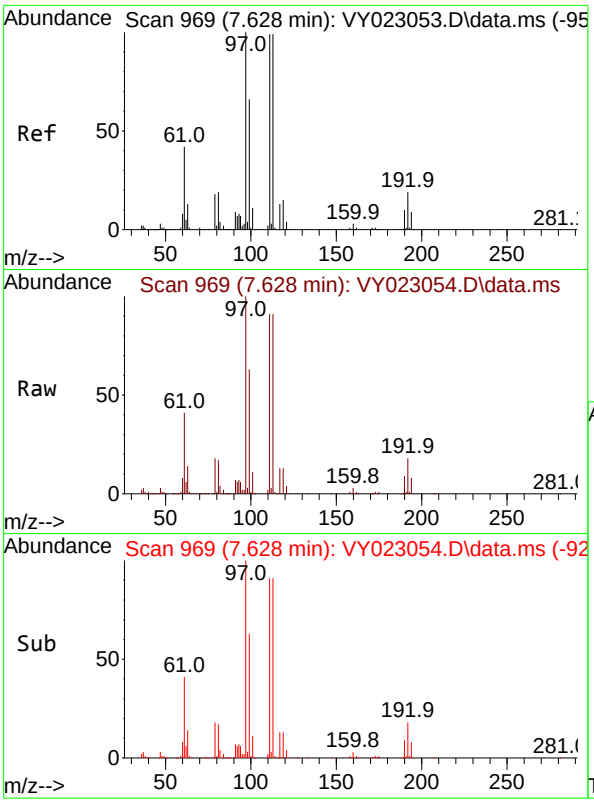



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:114 Resp: 880463

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.1 | 0.0 | 38.4 |
| 88 | 15.2 | 0.0 | 30.0 |

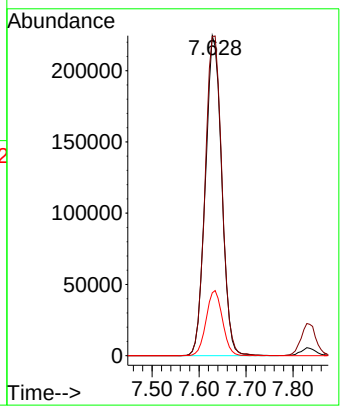





#35
Dibromofluoromethane
Concen: 102.518 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:113 Resp: 54010

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.6 | 81.1 | 121.7 |
| 192 | 20.4 | 16.2 | 24.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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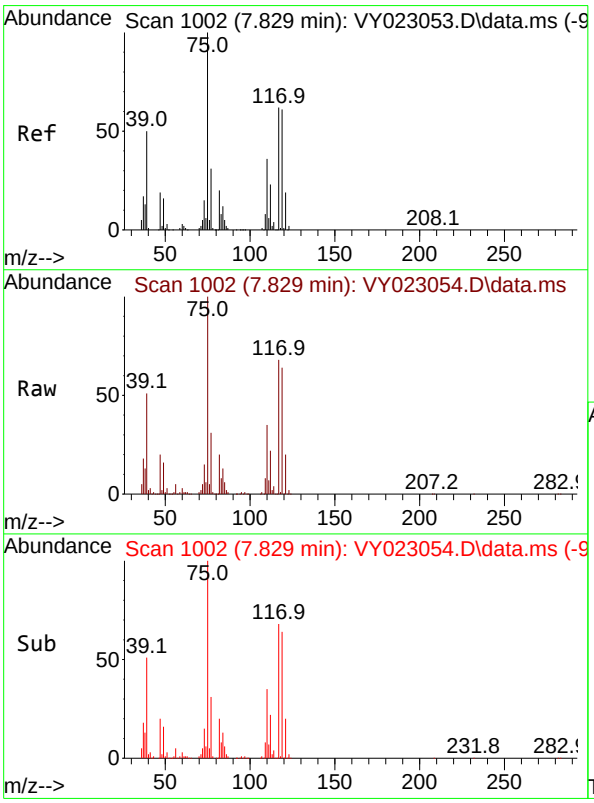
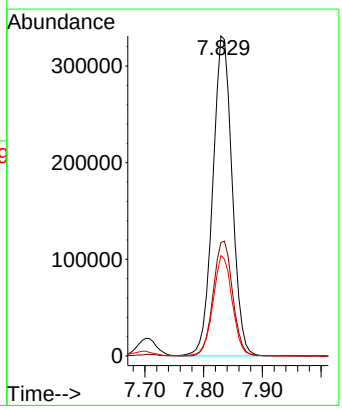
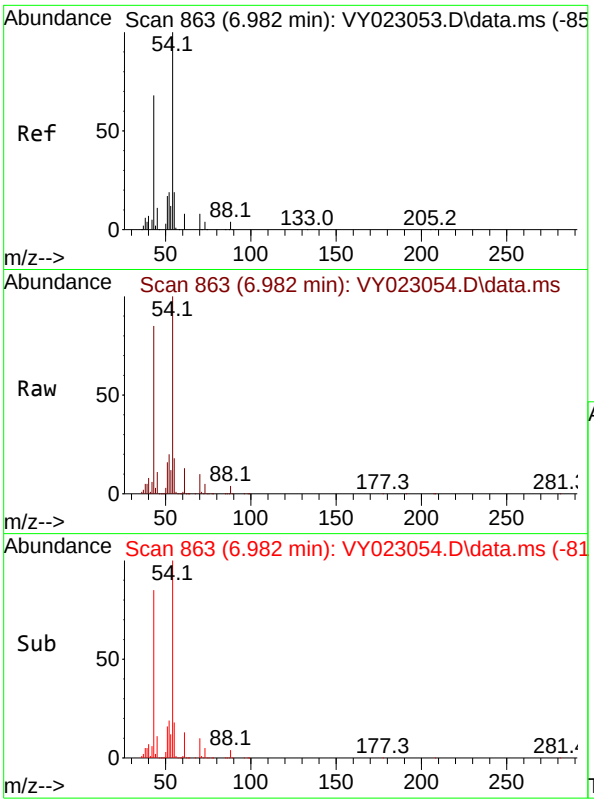



#36
1,1-Dichloropropene
Concen: 96.443 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 75 Resp: 755114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 36.1 | 18.1 | 54.4 |
| 77 | 31.3 | 24.6 | 37.0 |

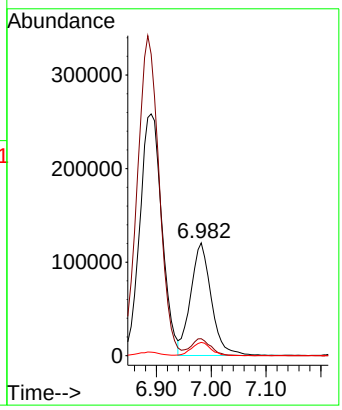





#37
Ethyl Acetate
Concen: 95.302 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 43 Resp: 31344

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.1 | 11.9 | 17.9 |
| 70 | 11.2 | 8.8 | 13.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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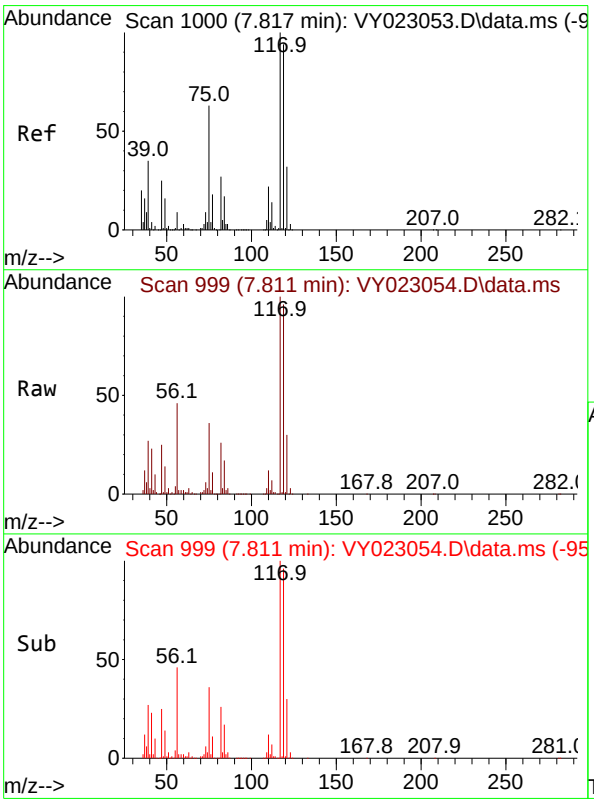
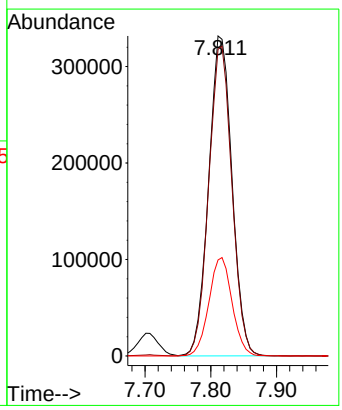
Supervised By :Semsettin Yesilyurt 08/14/2025

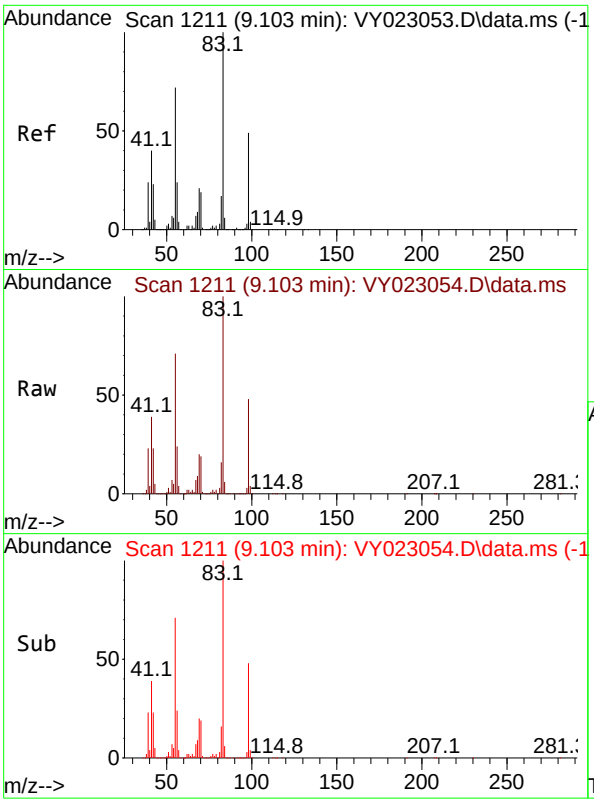



#38
Carbon Tetrachloride
Concen: 96.419 ug/l
RT: 7.811 min Scan# 999
Delta R.T. -0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:117 Resp: 819941

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.8 | 75.6 | 113.4 |
| 121 | 30.0 | 25.8 | 38.8 |






#39
Methylcyclohexane
Concen: 98.146 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

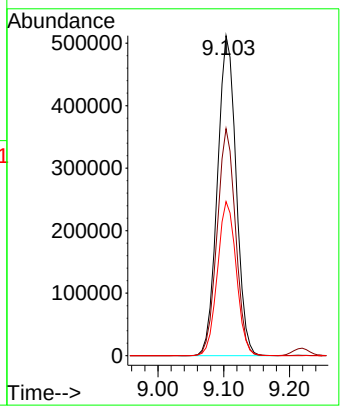
Tgt Ion: 83 Resp: 101194

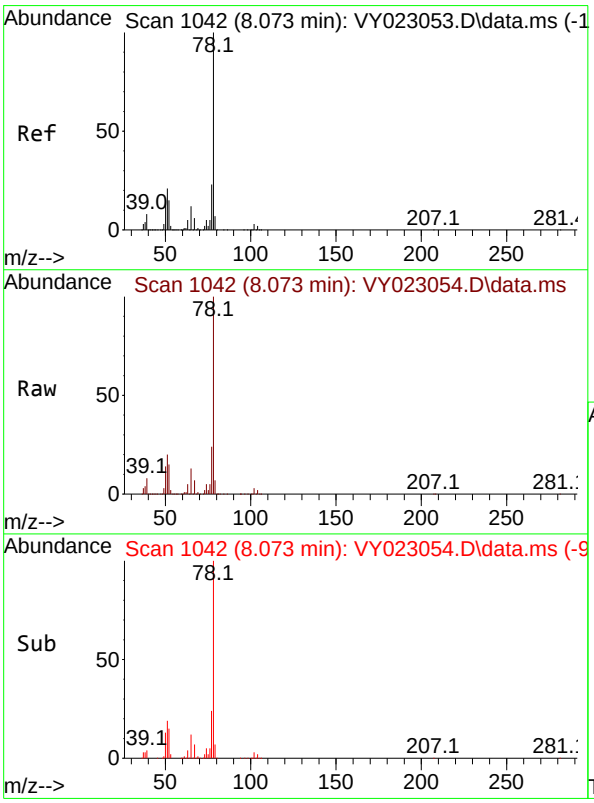
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 70.9 | 57.6 | 86.4 |
| 98 | 48.2 | 39.2 | 58.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

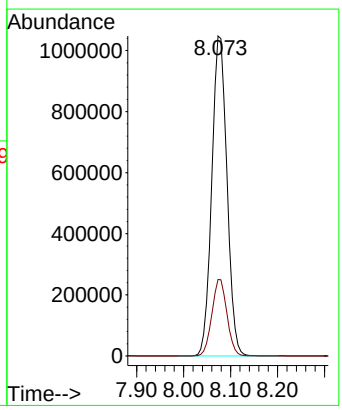


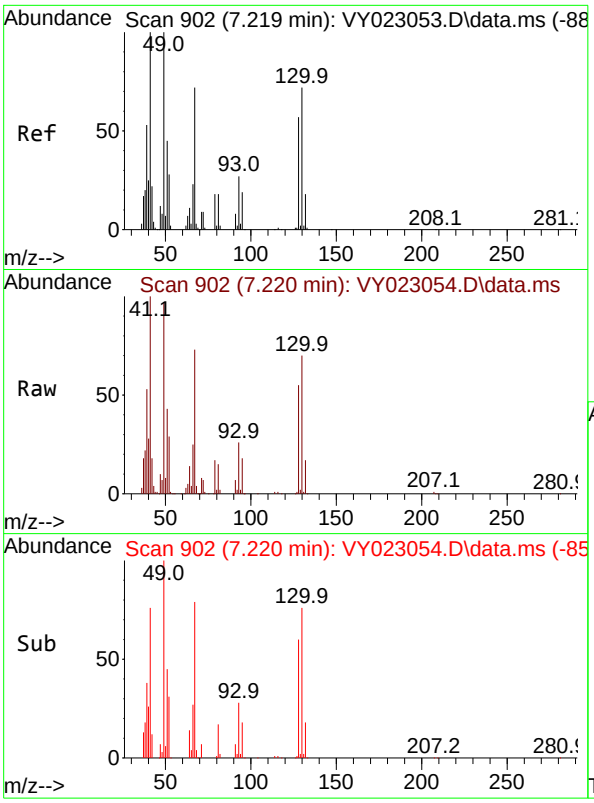




#40
Benzene
Concen: 97.324 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 78 Resp: 2348617

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.9 | 18.6 | 28.0 |

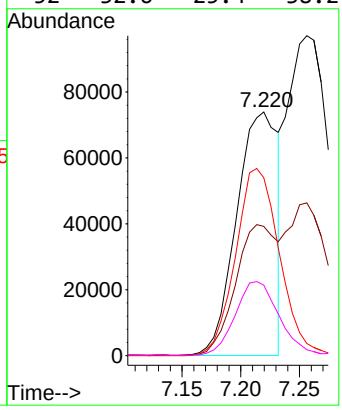





#41
Methacrylonitrile
Concen: 94.973 ug/l
RT: 7.220 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 41 Resp: 18046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 53.8 | 43.4 | 65.2 |
| 67 | 82.3 | 63.6 | 95.4 |
| 52 | 32.6 | 25.4 | 38.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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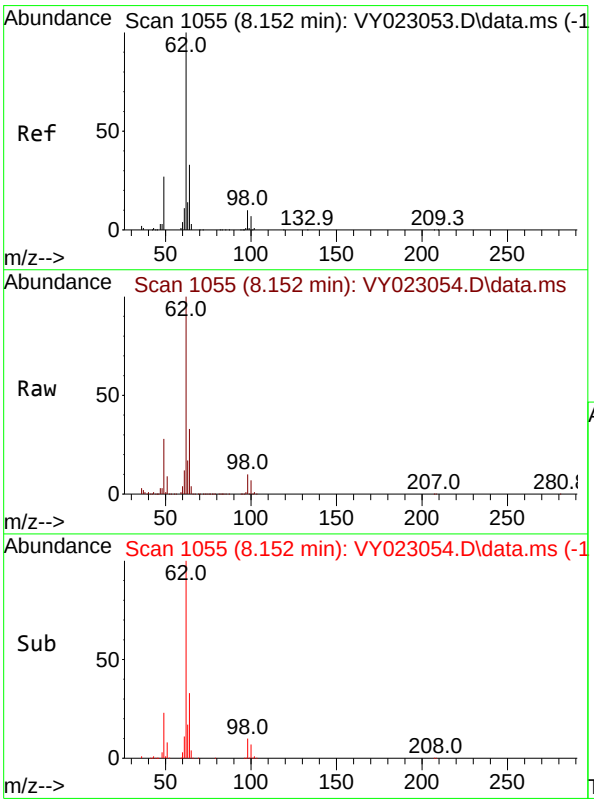
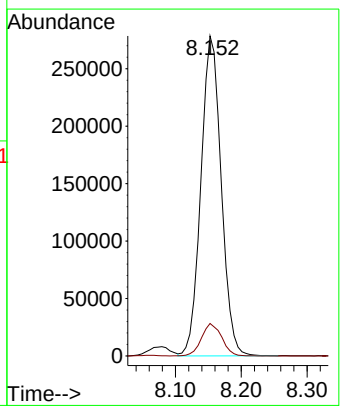
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

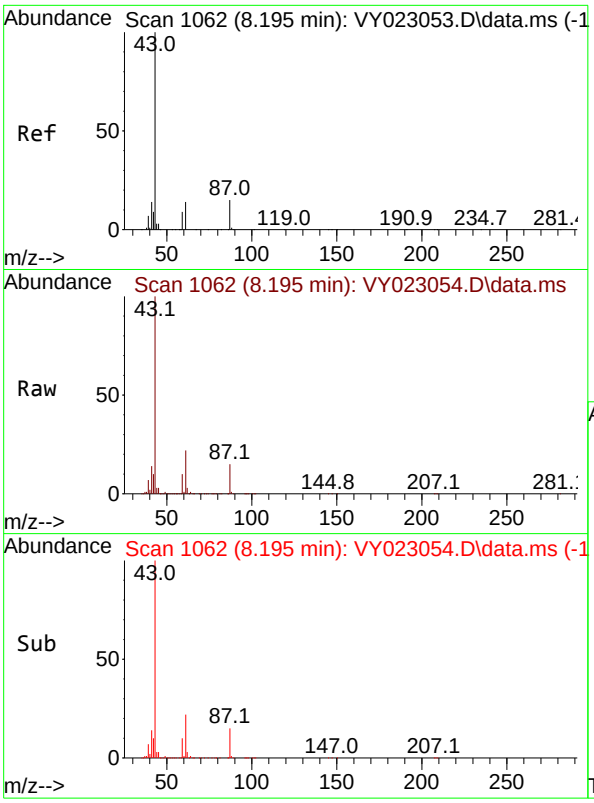



#42
1,2-Dichloroethane
Concen: 95.155 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 62 Resp: 597215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.1 | 0.0 | 20.6 |

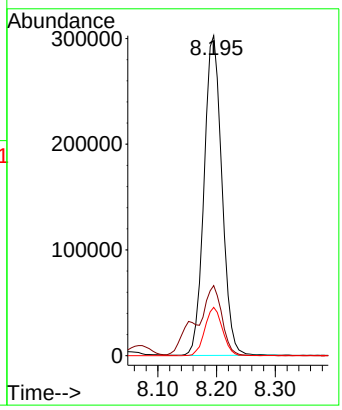





#43
Isopropyl Acetate
Concen: 95.780 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 43 Resp: 6367

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 21.0 | 16.4 | 24.6 |
| 87 | 14.9 | 11.8 | 17.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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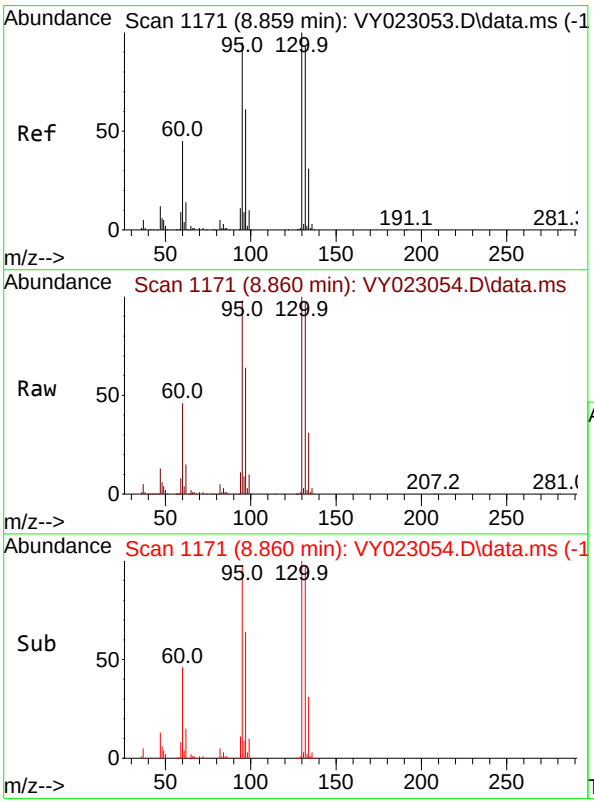
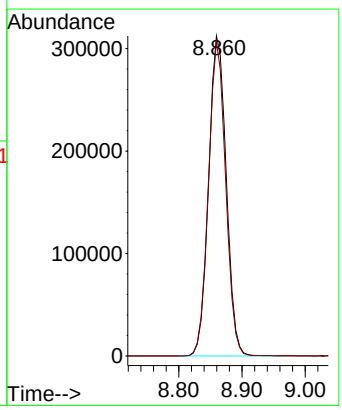
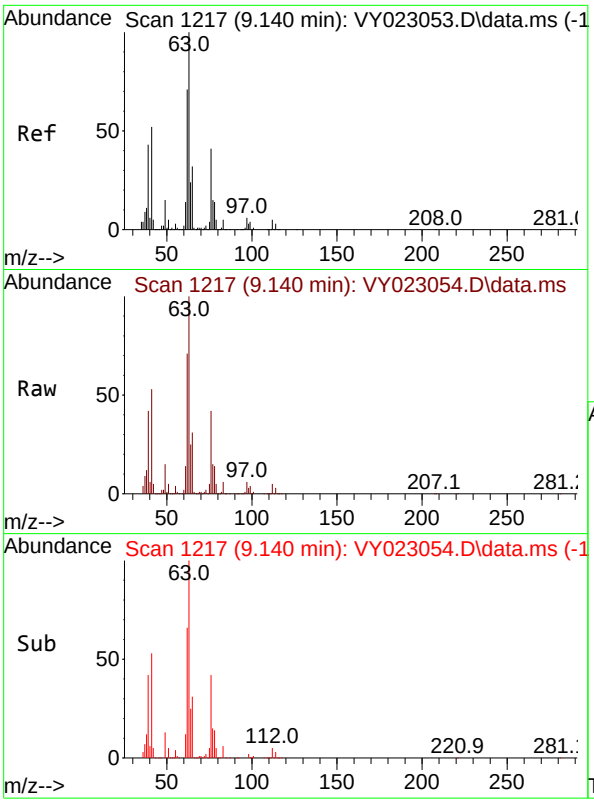



#44
Trichloroethene
Concen: 96.584 ug/l
RT: 8.860 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:130 Resp: 602322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 98.1 | 0.0 | 190.2 |

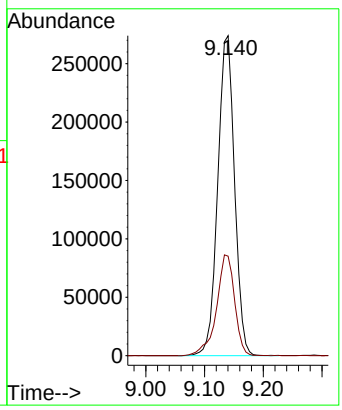





#45
1,2-Dichloropropane
Concen: 97.899 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 63 Resp: 54358

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.1 | 25.3 | 37.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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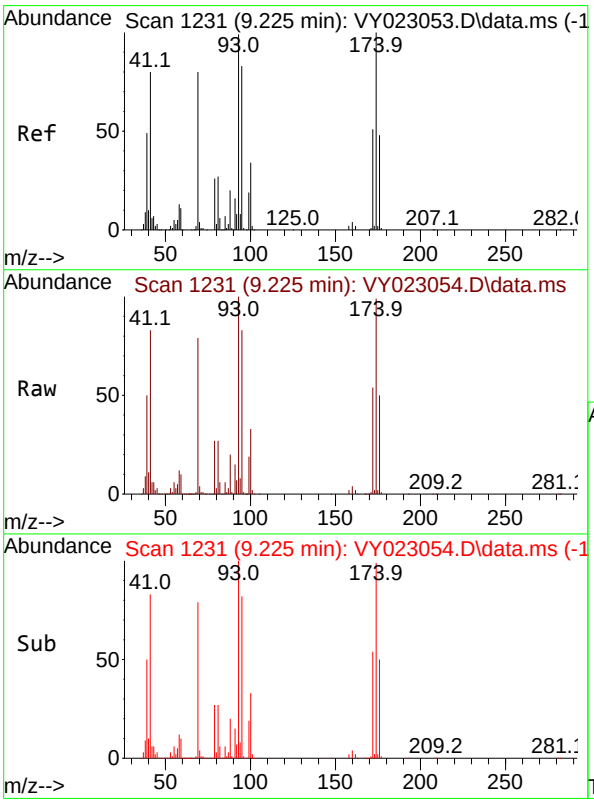
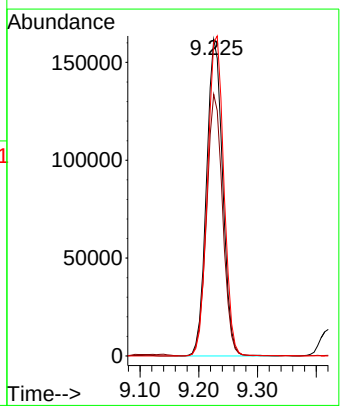
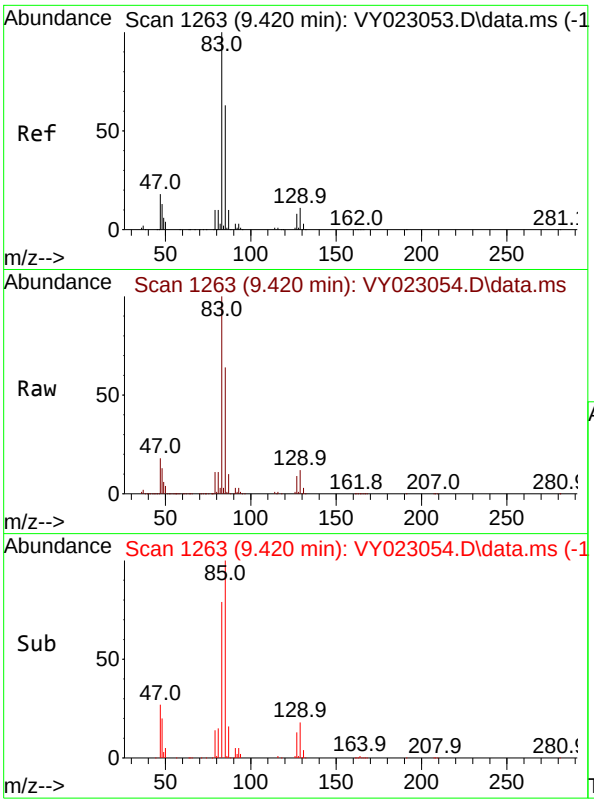



#46
Dibromomethane
Concen: 97.052 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 93 Resp: 309302

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 81.8 | 66.5 | 99.7 |
| 174 | 101.9 | 81.8 | 122.8 |

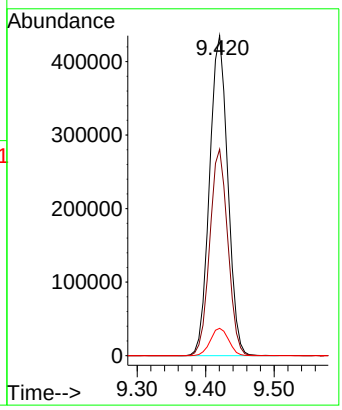





#47
Bromodichloromethane
Concen: 97.864 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 83 Resp: 80253

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.5 | 50.2 | 75.4 |
| 127 | 8.5 | 6.6 | 10.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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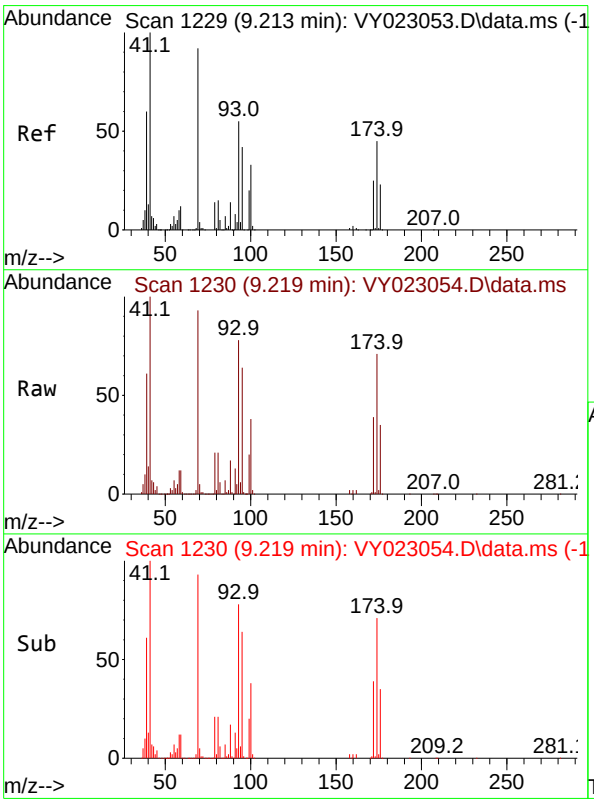
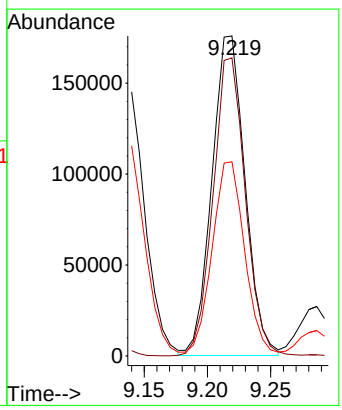
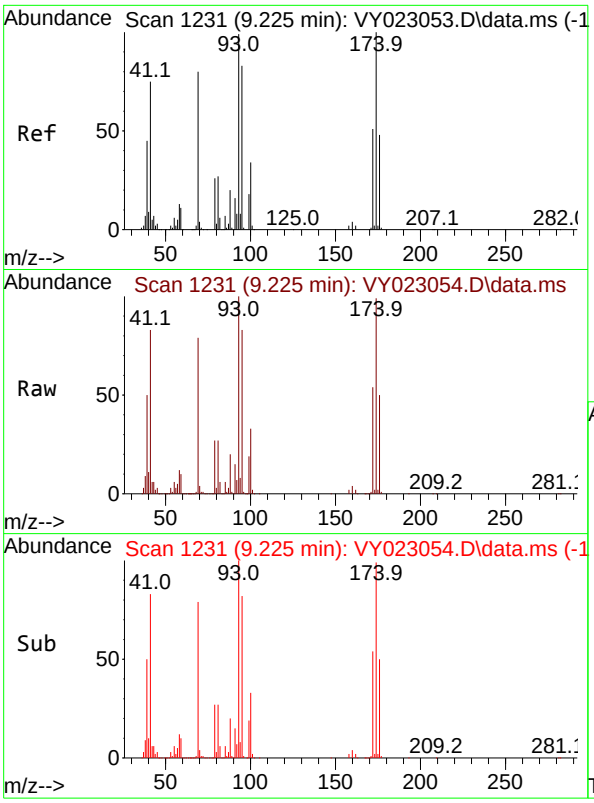



#48
Methyl methacrylate
Concen: 100.567 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 41 Resp: 319906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 91.4 | 73.2 | 109.8 |
| 39 | 57.6 | 47.0 | 70.4 |

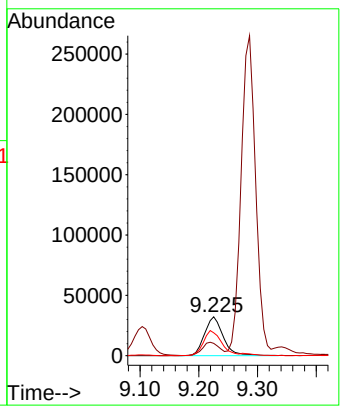





#49
1,4-Dioxane
Concen: 1908.039 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 88 Resp: 7130

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 30.6 | 24.3 | 36.5 |
| 58 | 62.4 | 55.4 | 83.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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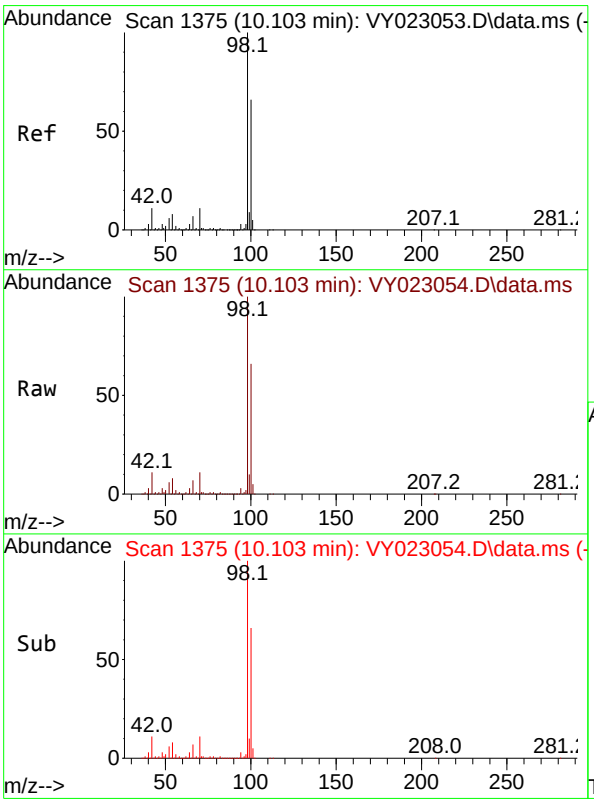
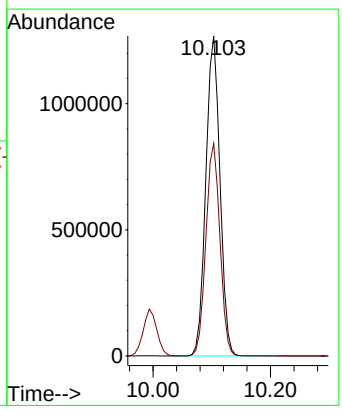
Supervised By :Semsettin Yesilyurt 08/14/2025

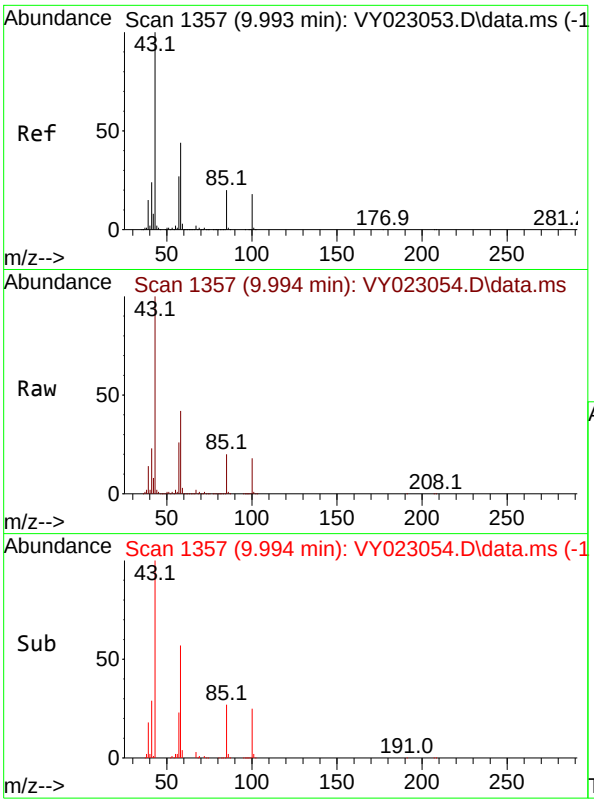



#50
Toluene-d8
Concen: 102.832 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 98 Resp: 2116445

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.1 | 52.3 | 78.5 |

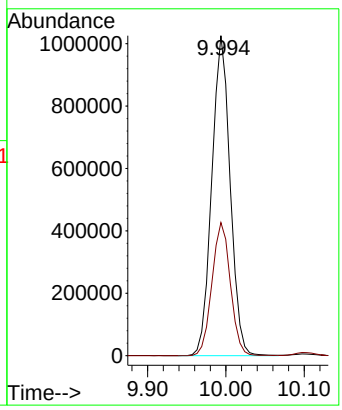





#51
4-Methyl-2-Pentanone
Concen: 486.924 ug/l
RT: 9.994 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 43 Resp: 166966

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 41.8 | 33.5 | 50.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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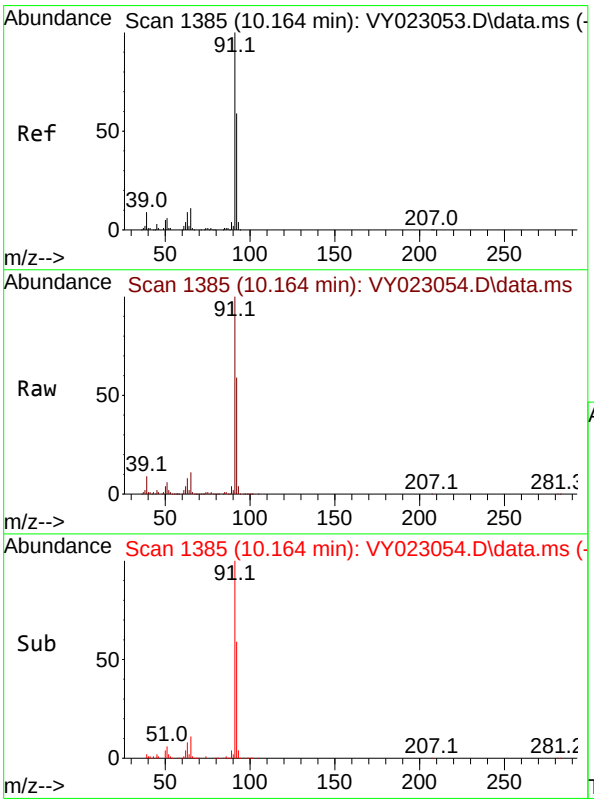
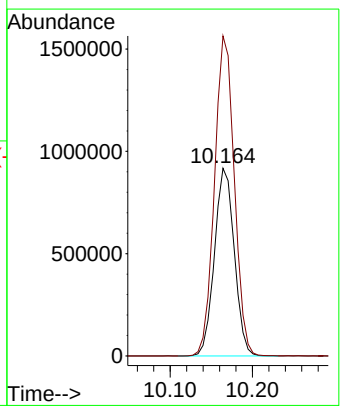
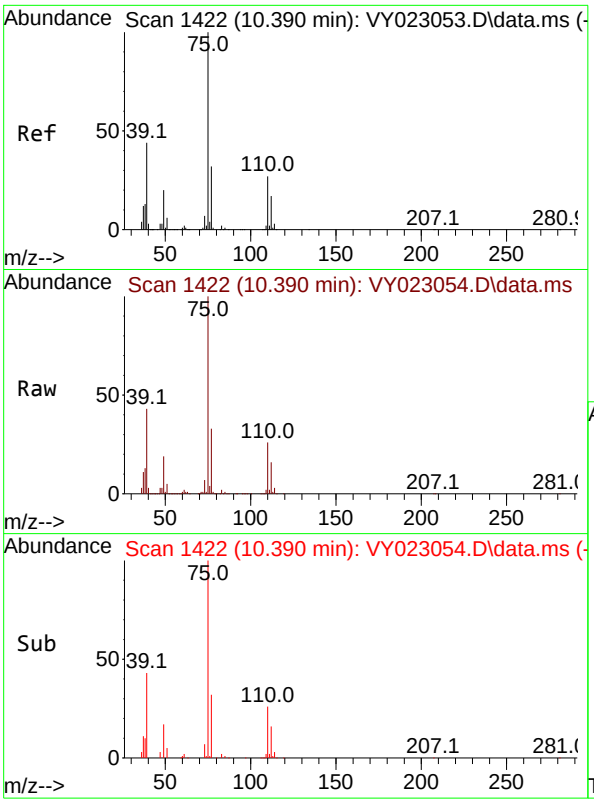



#52
Toluene
Concen: 100.288 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 92 Resp: 1537088

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 170.5 | 136.4 | 204.6 |

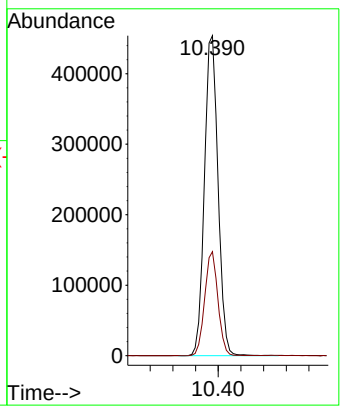





#53
t-1,3-Dichloropropene
Concen: 101.574 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 75 Resp: 75427

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.5 | 25.7 | 38.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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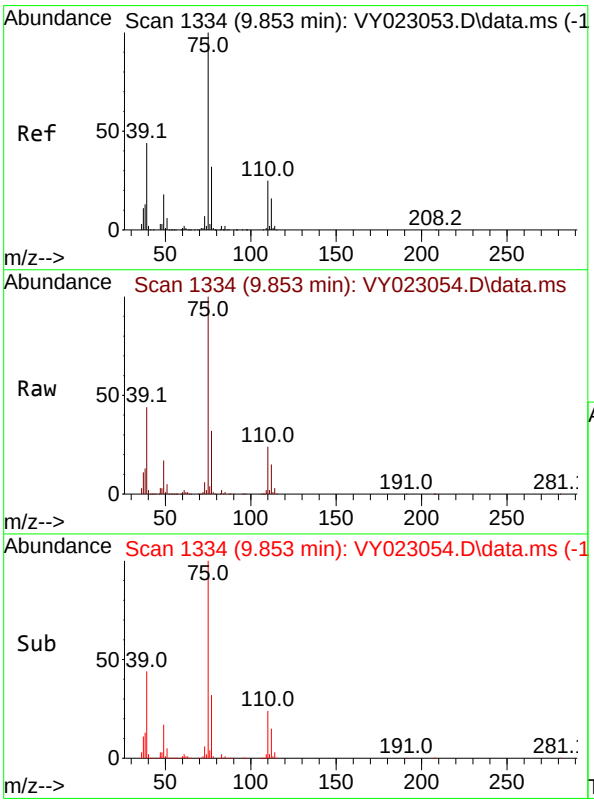
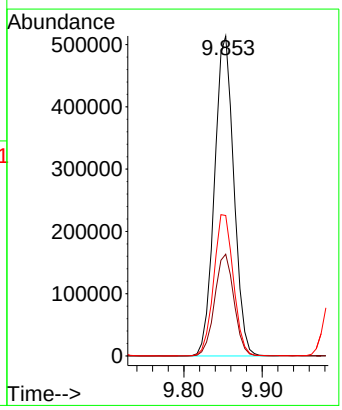
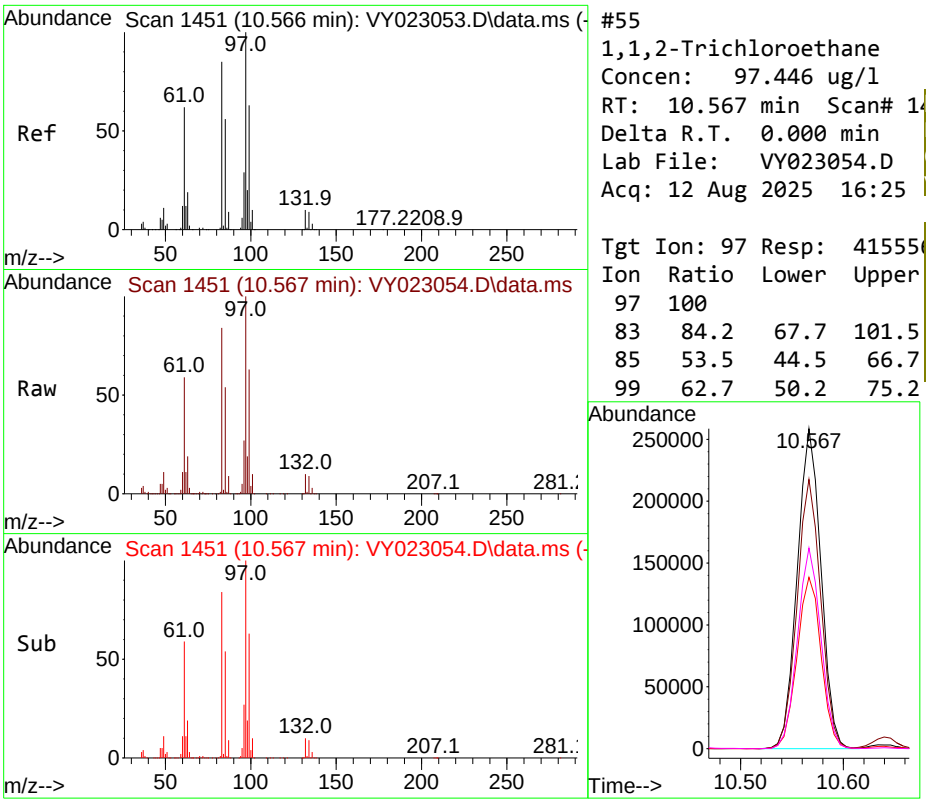



#54
cis-1,3-Dichloropropene
Concen: 100.281 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 75 Resp: 880571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.8 | 25.4 | 38.0 |
| 39 | 43.9 | 35.6 | 53.4 |






#55
1,1,2-Trichloroethane
Concen: 97.446 ug/l
RT: 10.567 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 97 Resp: 41555

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 84.2 | 67.7 | 101.5 |
| 85 | 53.5 | 44.5 | 66.7 |
| 99 | 62.7 | 50.2 | 75.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

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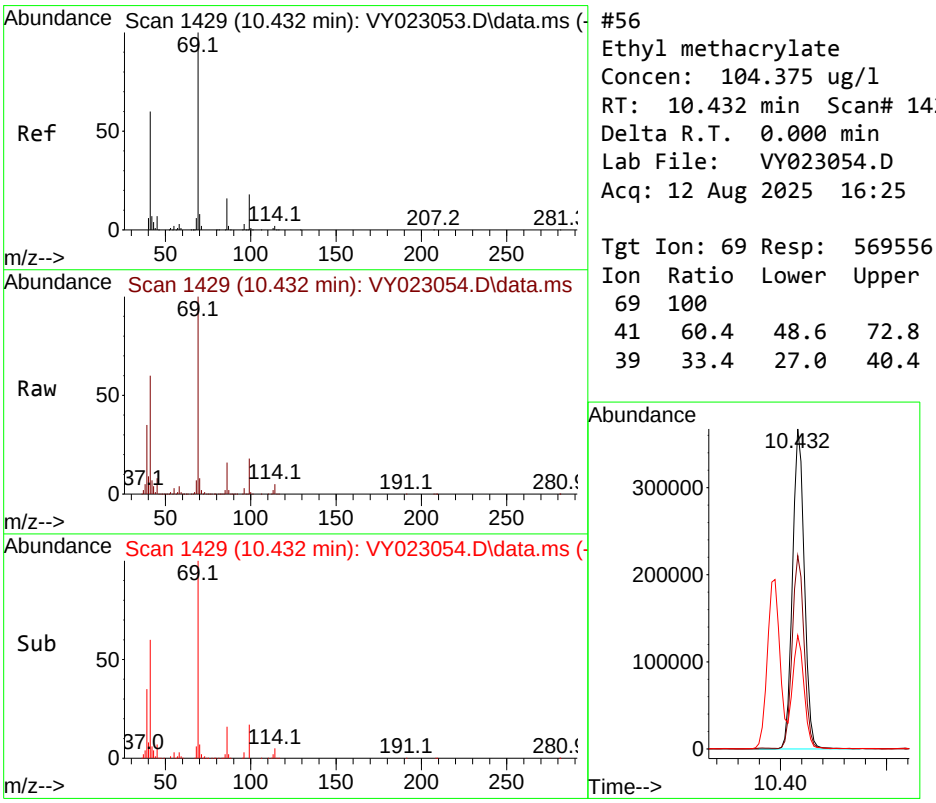
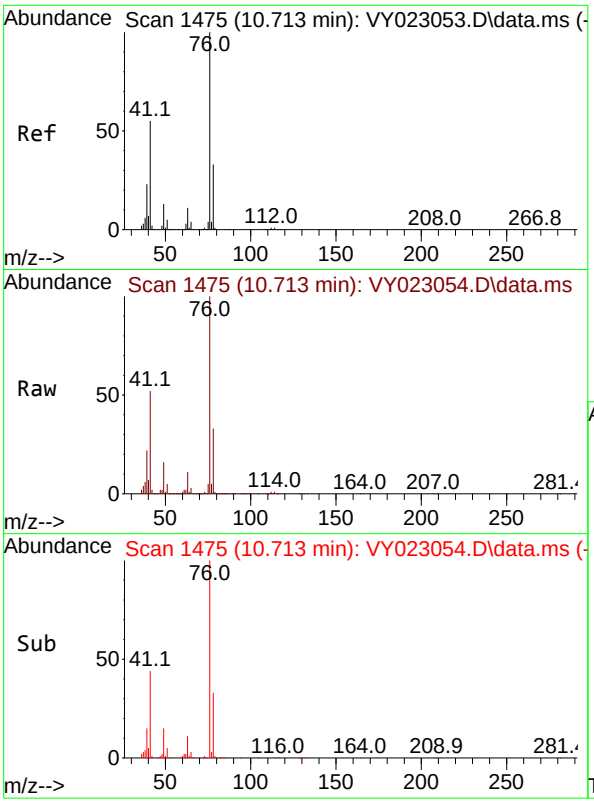



#56
Ethyl methacrylate
Concen: 104.375 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 69 Resp: 569556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 60.4 | 48.6 | 72.8 |
| 39 | 33.4 | 27.0 | 40.4 |




#57
1,3-Dichloropropane
Concen: 96.253 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

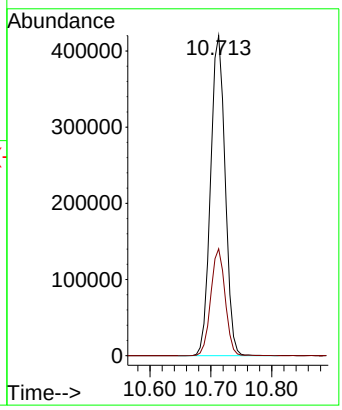
Tgt Ion: 76 Resp: 69613

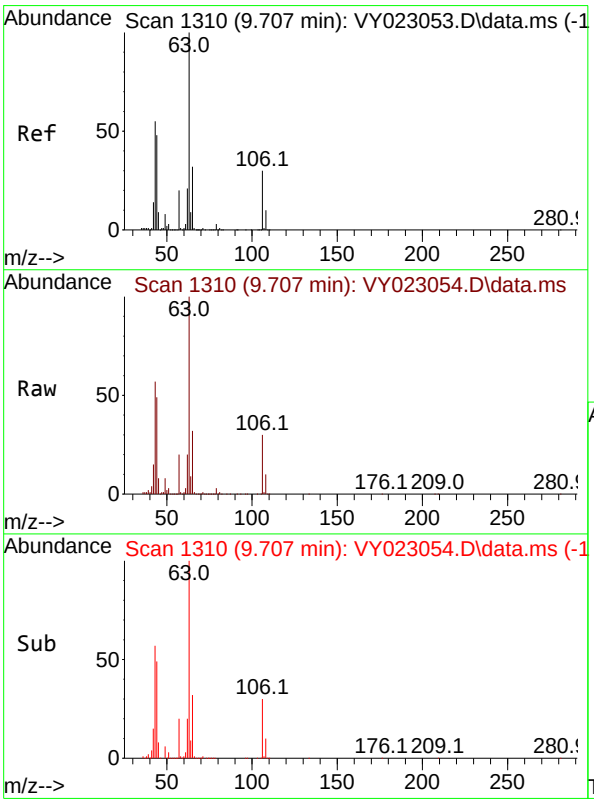
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 33.0 | 26.0 | 39.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

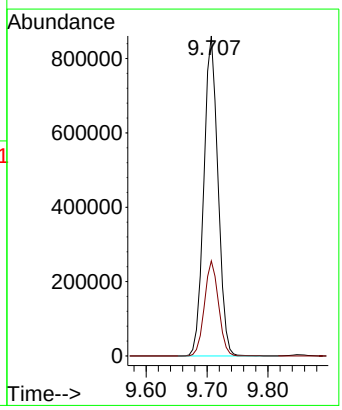


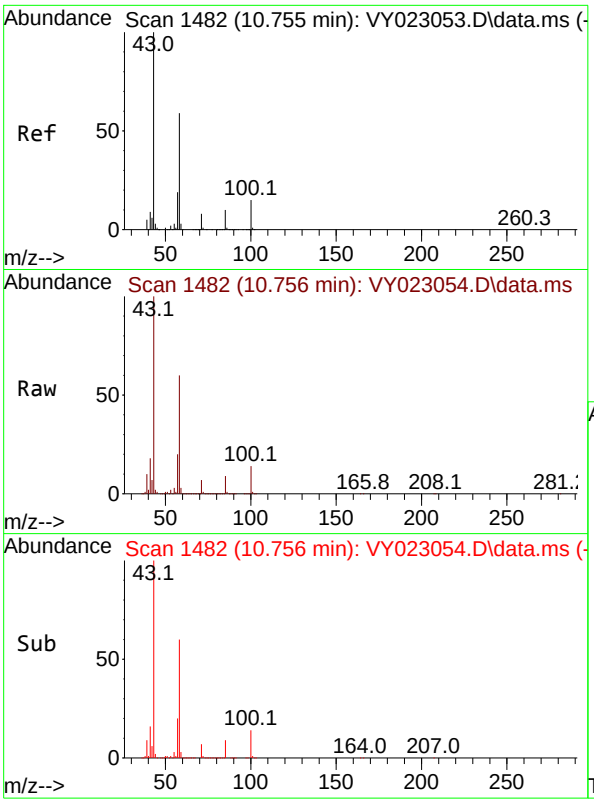




#58
2-Chloroethyl Vinyl ether
Concen: 539.957 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 63 Resp: 1389847

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 29.5 | 23.2 | 34.8 |

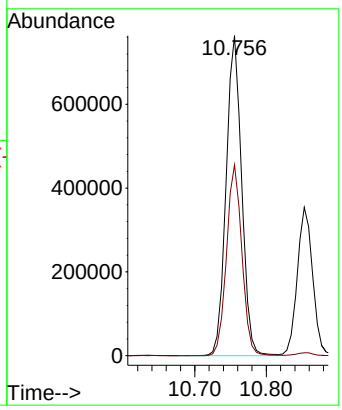





#59
2-Hexanone
Concen: 492.950 ug/l
RT: 10.756 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 43 Resp: 115100

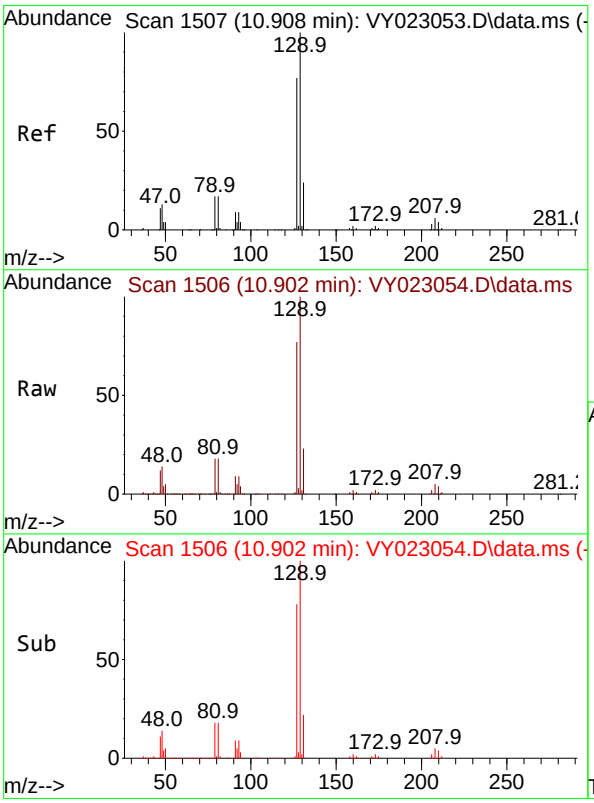
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 58.9 | 29.5 | 88.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

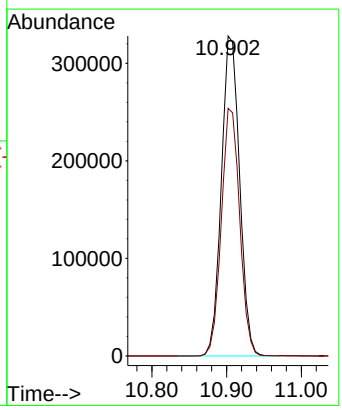
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

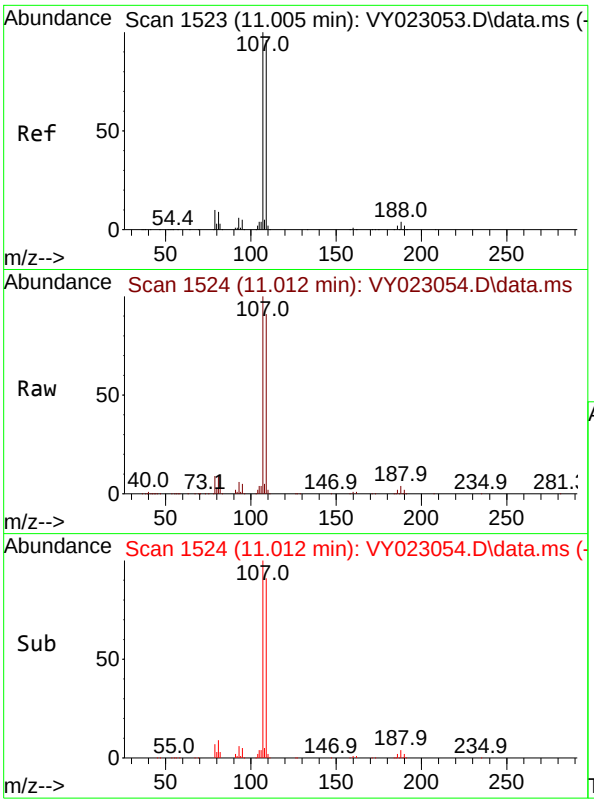



#60
Dibromochloromethane
Concen: 99.024 ug/l
RT: 10.902 min Scan# 1506
Delta R.T. -0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:129 Resp: 557205

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.8 | 38.5 | 115.5 |






#61
1,2-Dibromoethane
Concen: 97.713 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:107 Resp: 39165

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 92.9 | 75.6 | 113.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

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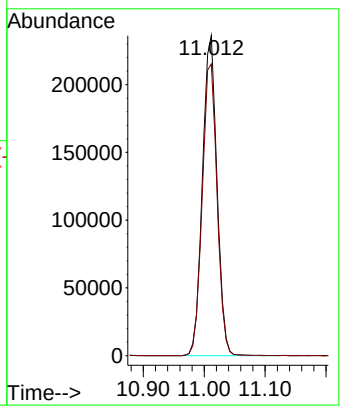
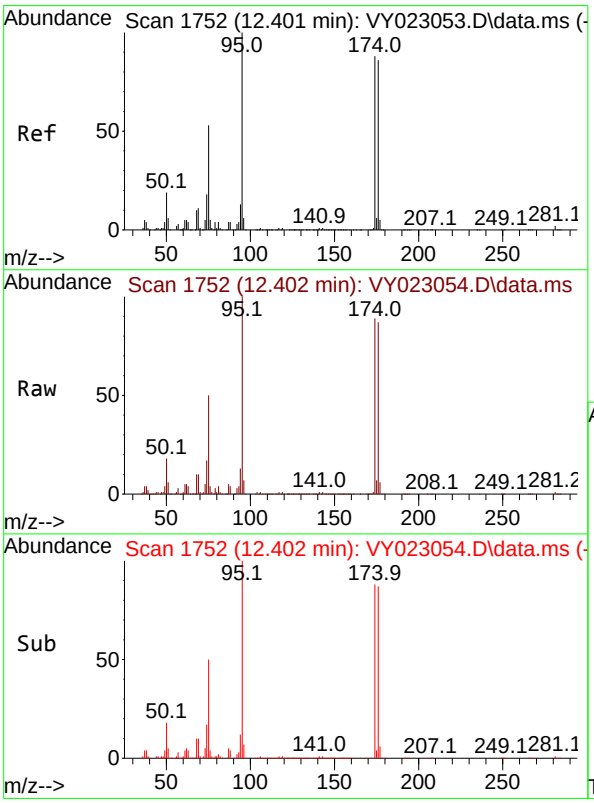
Supervised By :Semsettin Yesilyurt 08/14/2025

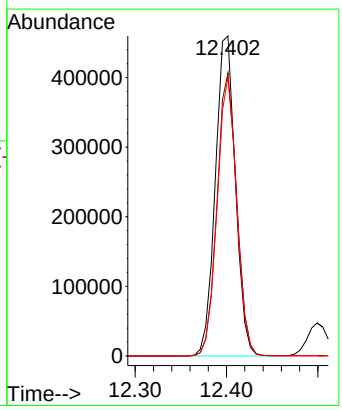


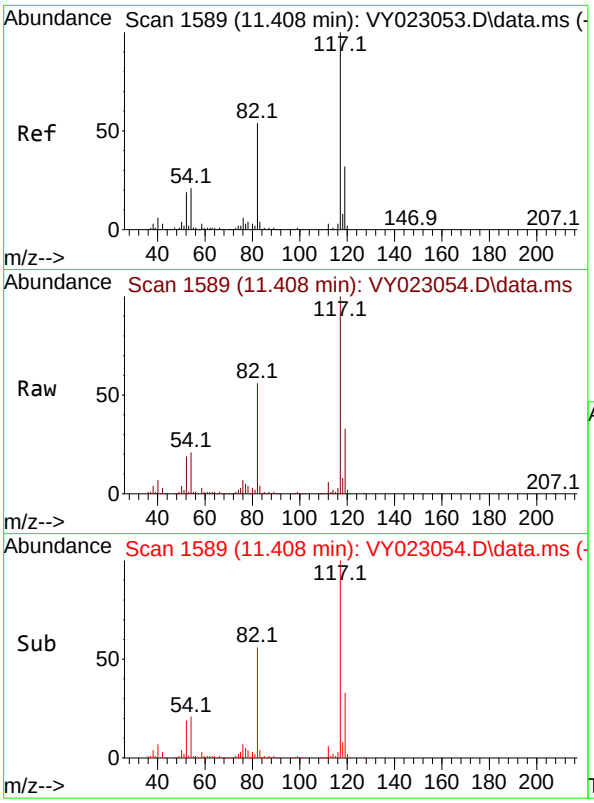




#62
4-Bromofluorobenzene
Concen: 106.147 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 95 Resp: 702583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 86.7 | 0.0 | 171.6 |
| 176 | 84.8 | 0.0 | 167.6 |






#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

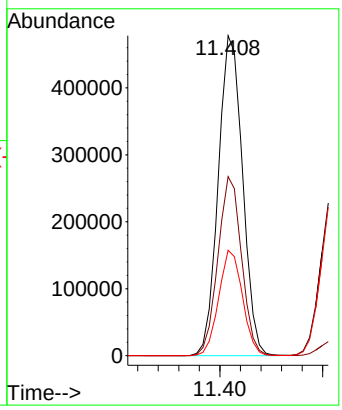
Tgt Ion:117 Resp: 78438

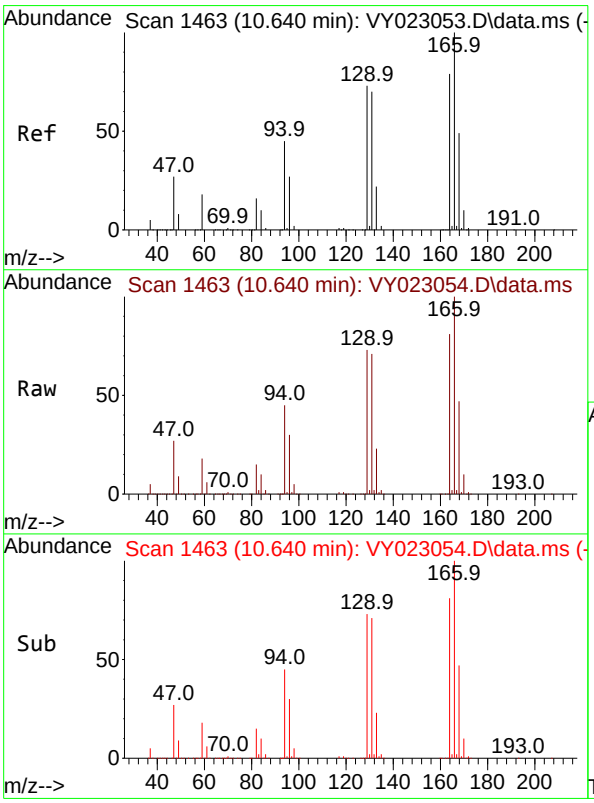
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 56.0 | 43.4 | 65.0 |
| 119 | 33.0 | 25.6 | 38.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

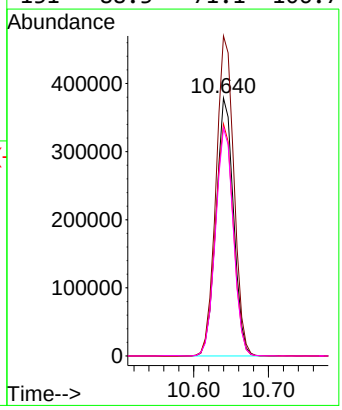


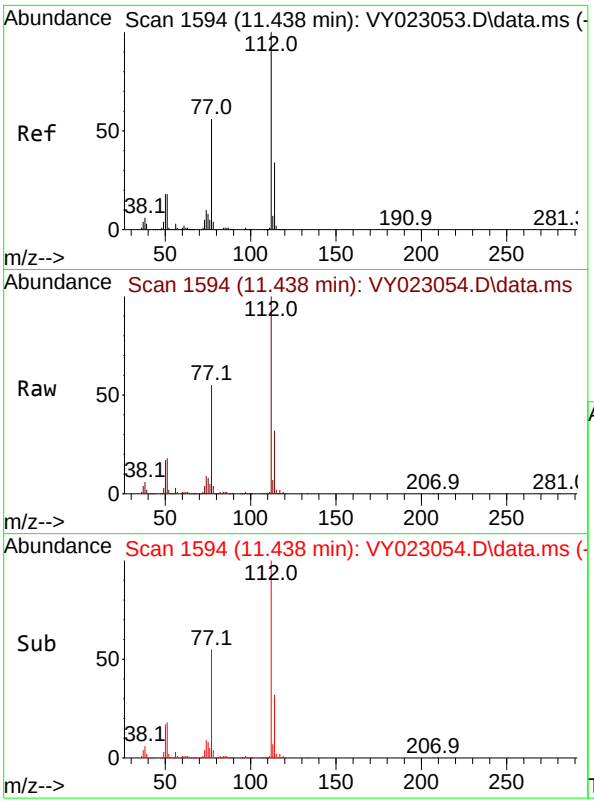




#64
Tetrachloroethene
Concen: 87.931 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:164 Resp: 615871

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 124.1 | 101.1 | 151.7 |
| 129 | 90.0 | 74.0 | 111.0 |
| 131 | 88.3 | 71.1 | 106.7 |

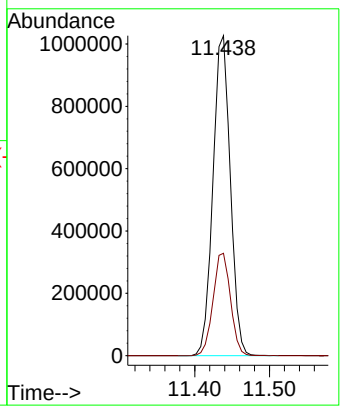





#65
Chlorobenzene
Concen: 98.004 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:112 Resp: 165815

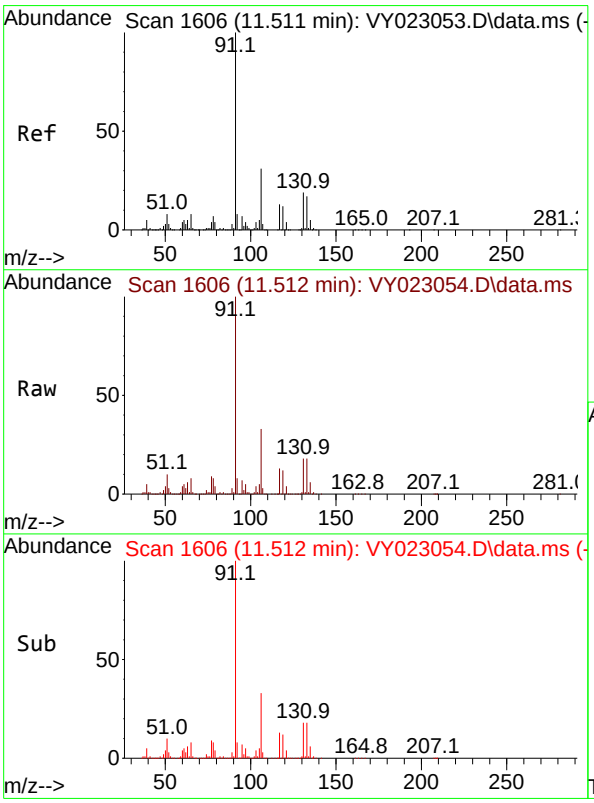
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.0 | 27.0 | 40.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

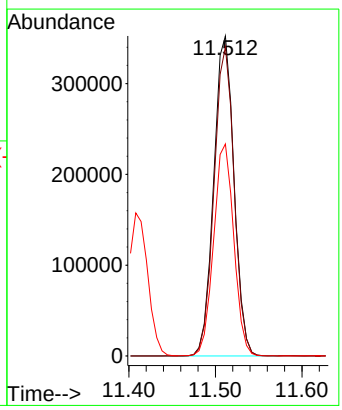
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

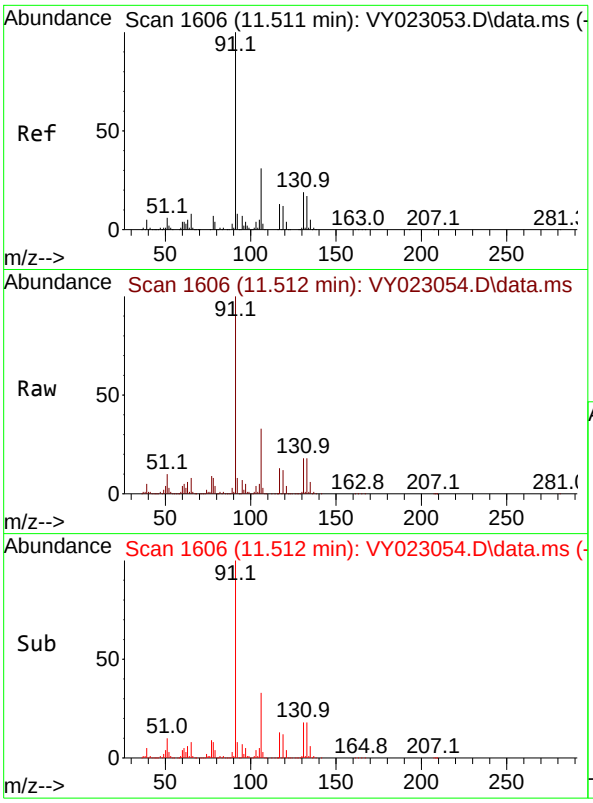



#66
1,1,1,2-Tetrachloroethane
Concen: 99.810 ug/l
RT: 11.512 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:131 Resp: 573131

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.5 | 46.9 | 140.6 |
| 119 | 65.9 | 33.2 | 99.6 |






#67
Ethyl Benzene
Concen: 100.082 ug/l
RT: 11.512 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

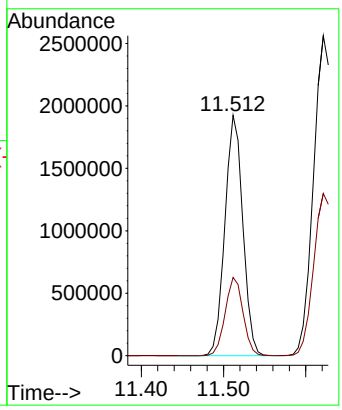
Tgt Ion: 91 Resp: 291402(

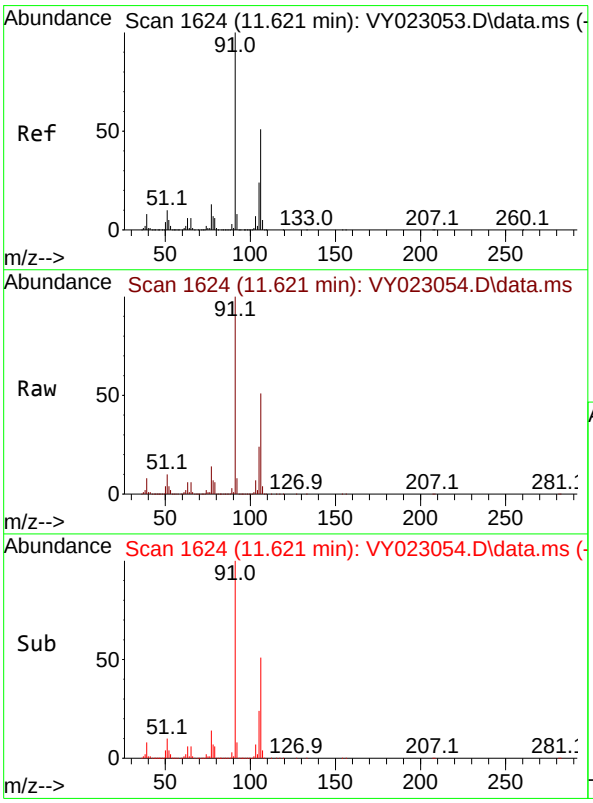
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 32.5 | 25.0 | 37.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

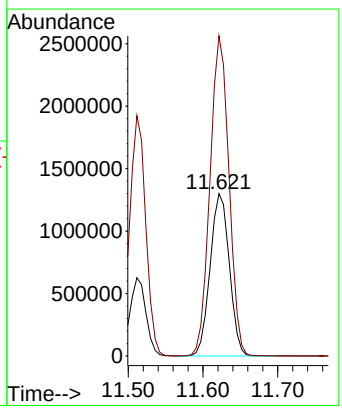


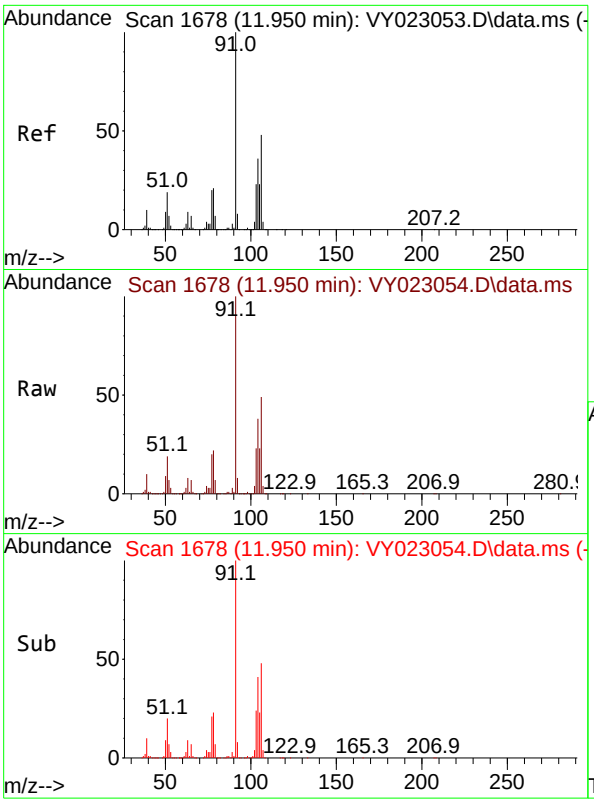




#68
m/p-Xylenes
Concen: 203.363 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:106 Resp: 2312597

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 195.1 | 158.6 | 238.0 |






#69
o-Xylene
Concen: 103.373 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:106 Resp: 110099

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 207.5 | 103.2 | 309.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

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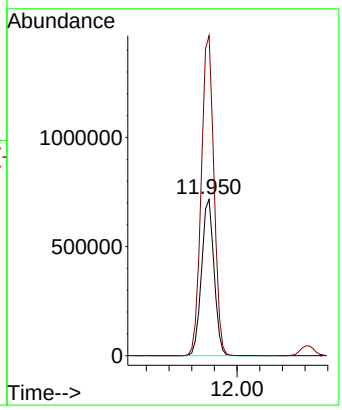
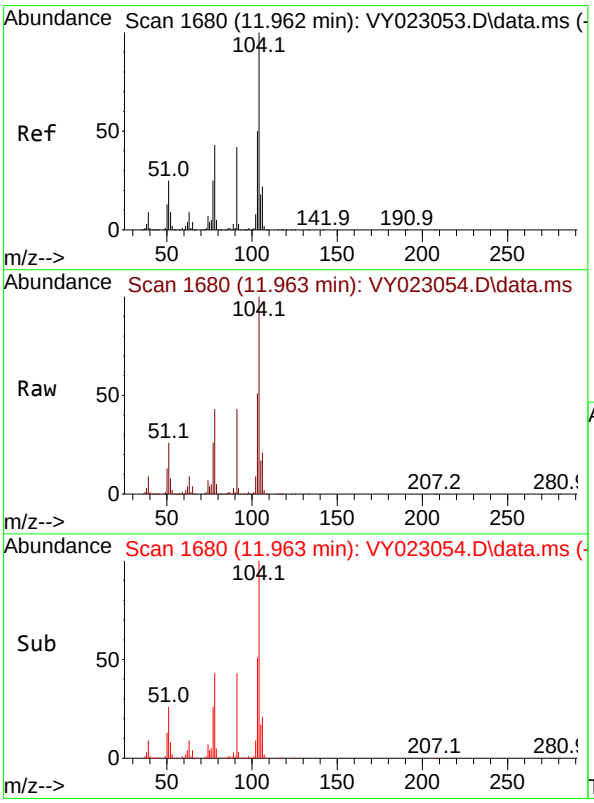
Supervised By :Semsettin Yesilyurt 08/14/2025

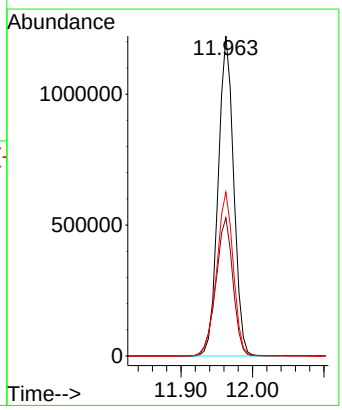


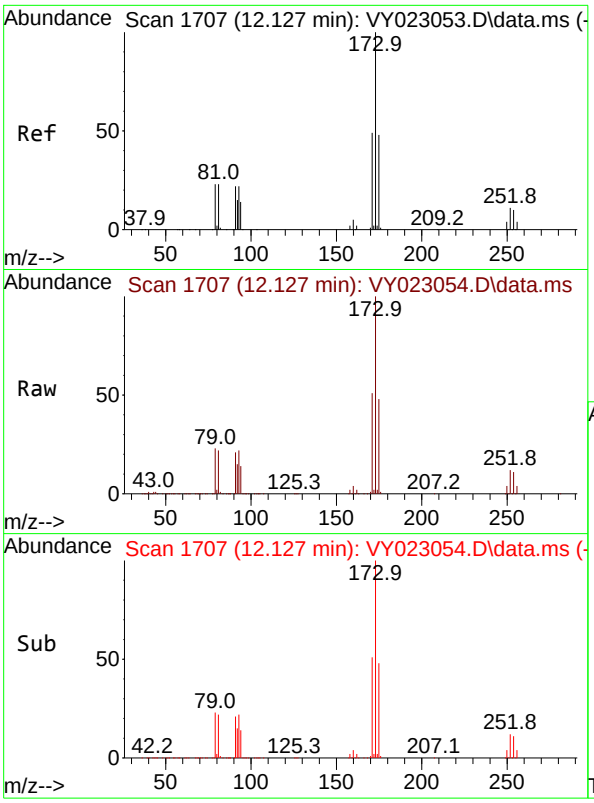




#70
Styrene
Concen: 105.953 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:104 Resp: 1845480

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 47.4 | 38.5 | 57.7 |
| 103 | 54.9 | 43.7 | 65.5 |

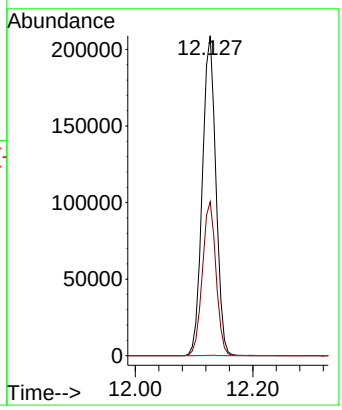





#71
Bromoform
Concen: 99.786 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:173 Resp: 33488

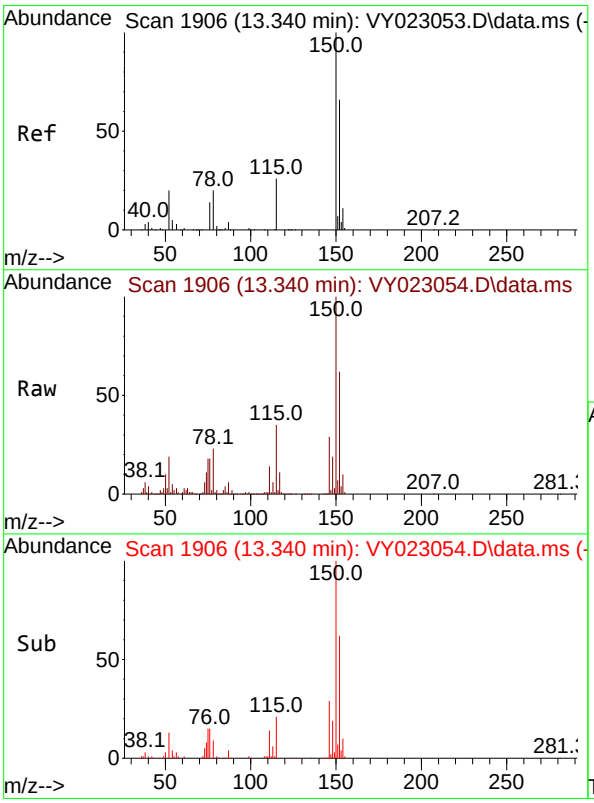
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.4 | 23.9 | 71.7 |
| 254 | 0.1 | 0.1 | 0.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

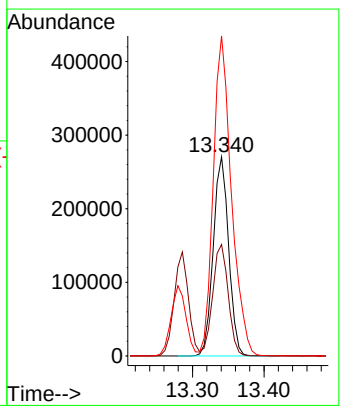
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

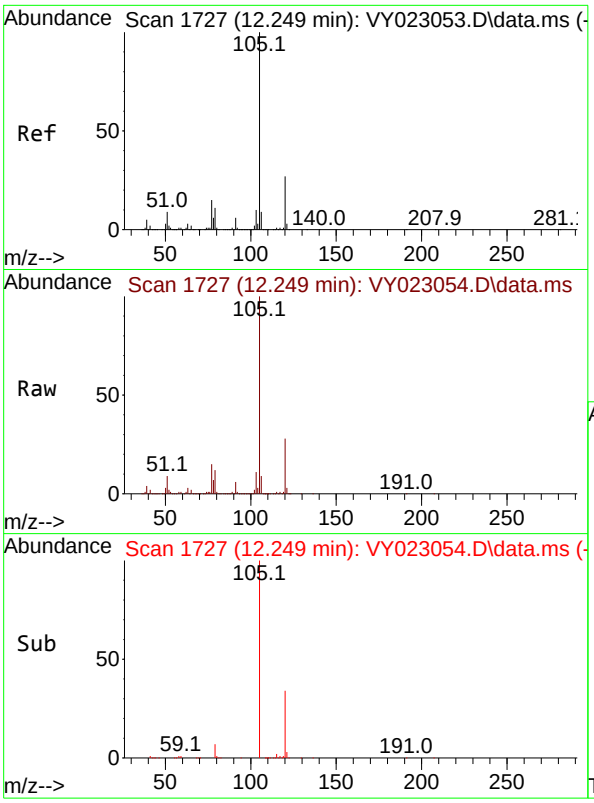



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:152 Resp: 404136

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 56.4 | 28.2 | 84.6 |
| 150 | 189.2 | 0.0 | 348.0 |

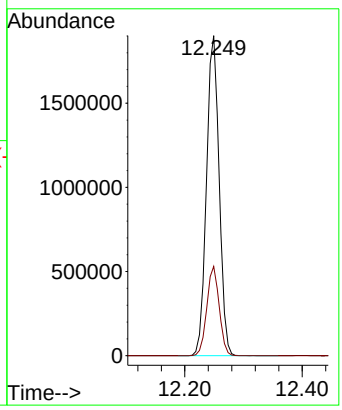





#73
Isopropylbenzene
Concen: 99.567 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:105 Resp: 283999

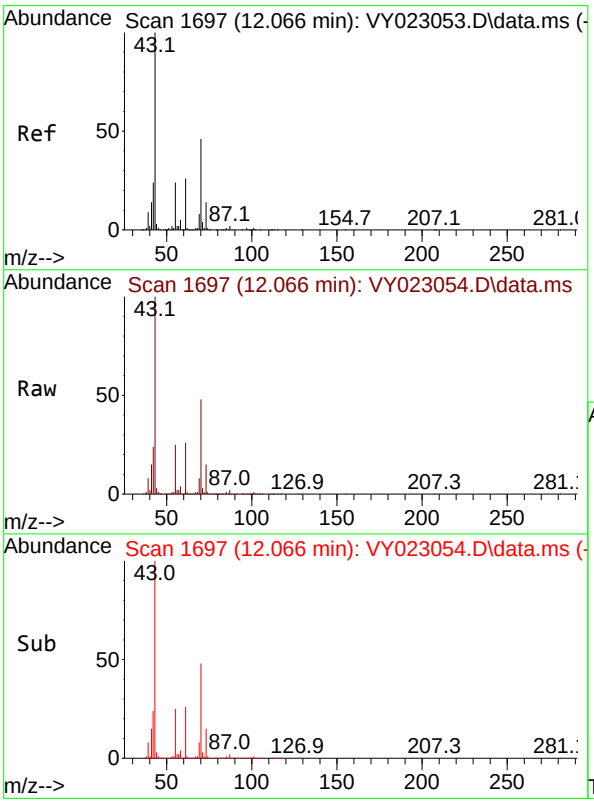
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.3 | 13.4 | 40.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

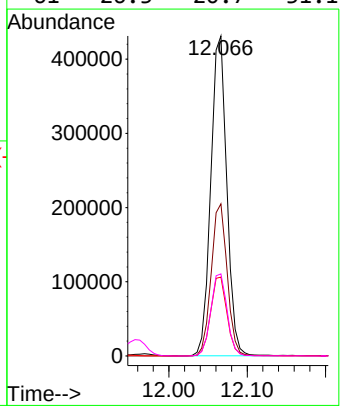
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

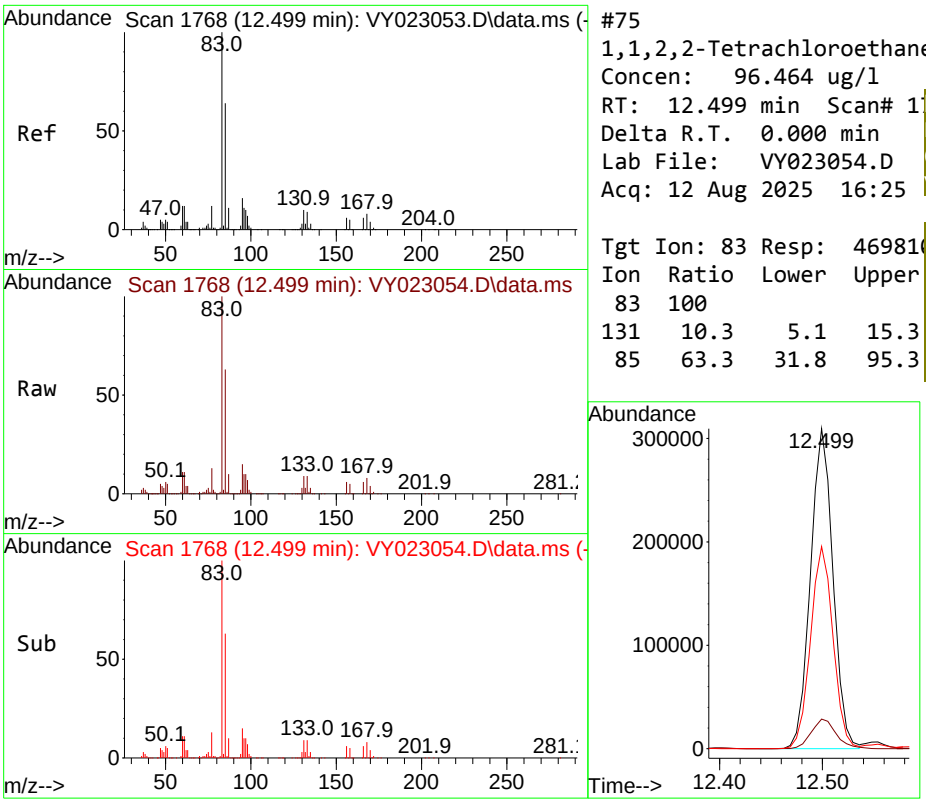



#74
N-amyl acetate
Concen: 100.955 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 43 Resp: 610668

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 47.8 | 37.5 | 56.3 |
| 55 | 25.3 | 20.7 | 31.1 |
| 61 | 26.3 | 20.7 | 31.1 |






#75
1,1,2,2-Tetrachloroethane
Concen: 96.464 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 83 Resp: 46981

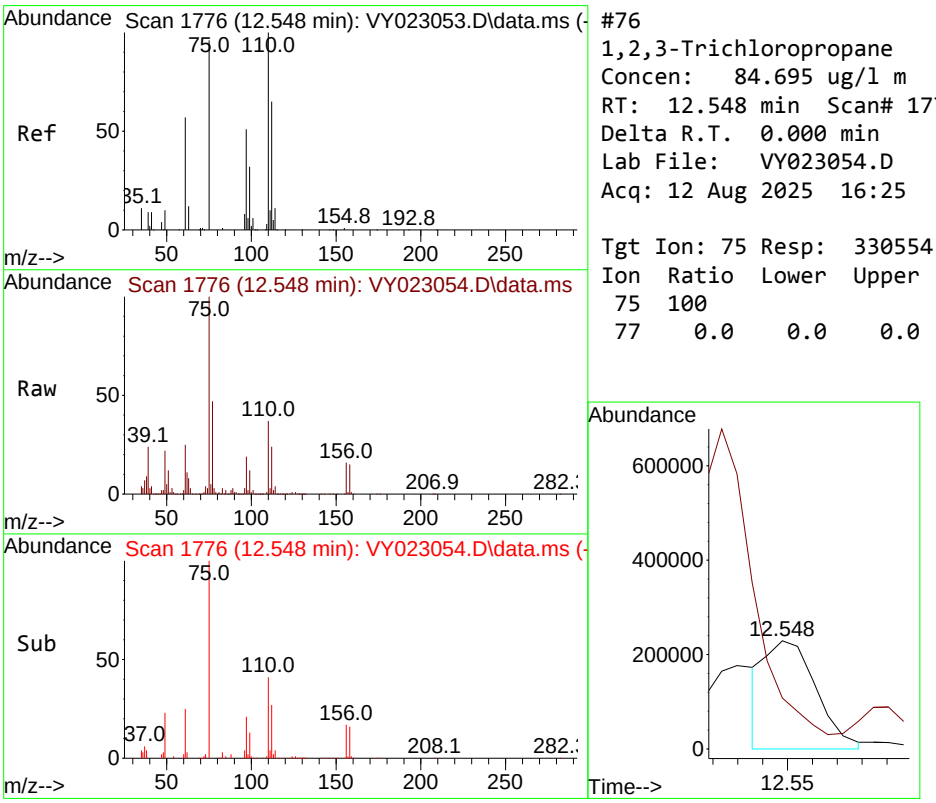
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.3 | 5.1 | 15.3 |
| 85 | 63.3 | 31.8 | 95.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

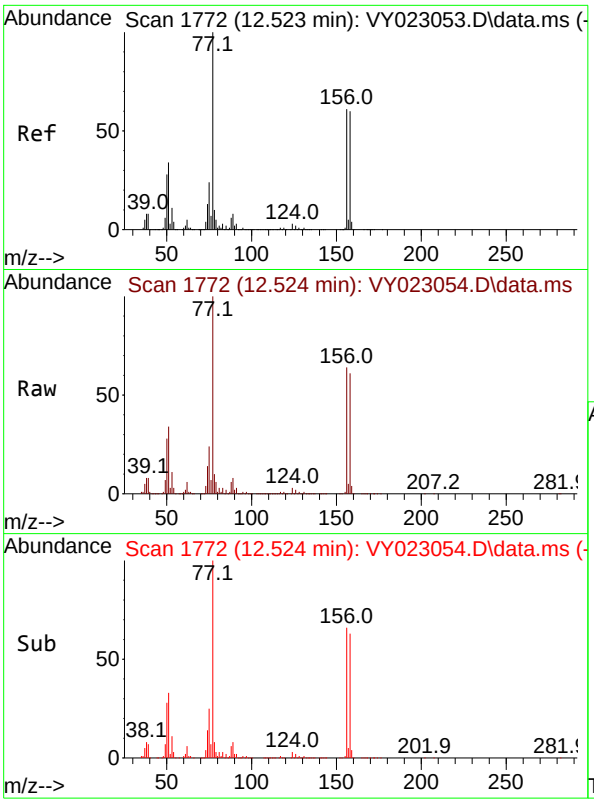
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025




#76
1,2,3-Trichloropropane
Concen: 84.695 ug/l m
RT: 12.548 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 75 Resp: 330554

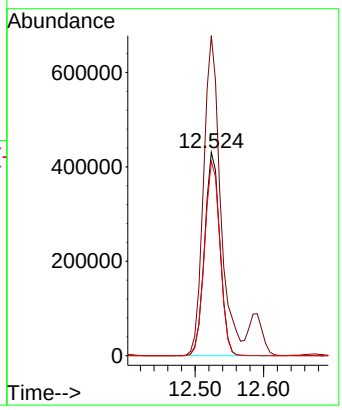
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |




#77
Bromobenzene
Concen: 98.655 ug/l
RT: 12.524 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:156 Resp: 67132

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 172.8 | 88.1 | 264.4 |
| 158 | 96.5 | 48.0 | 144.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
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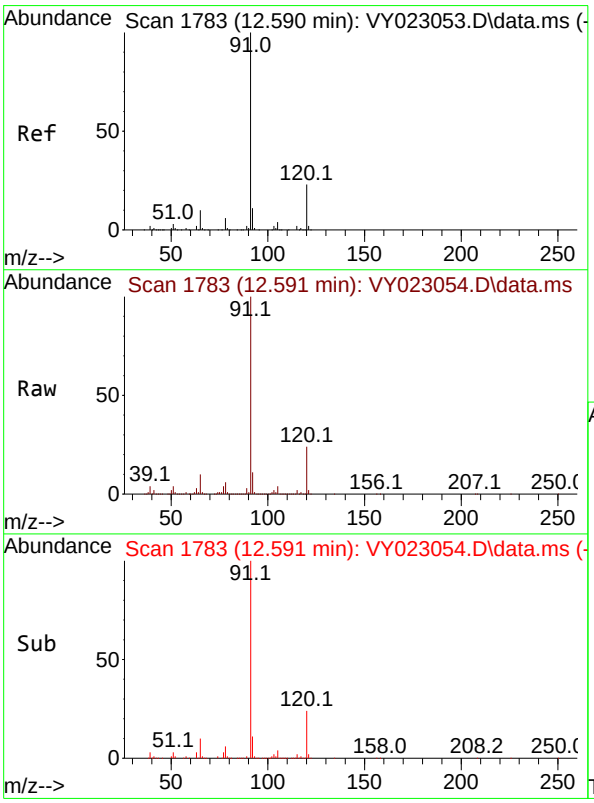
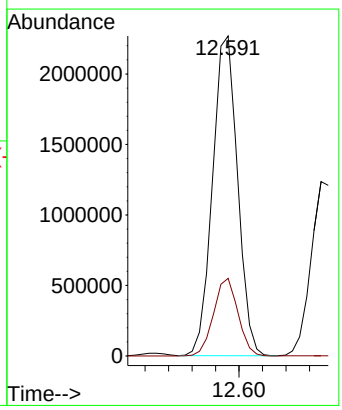
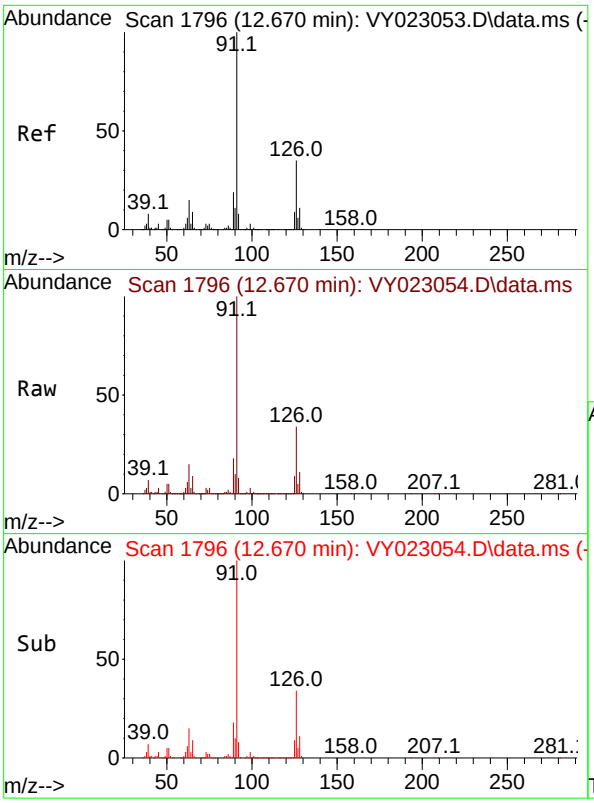



#78
n-propylbenzene
Concen: 98.963 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 91 Resp: 3360679

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 23.6 | 11.5 | 34.5 |

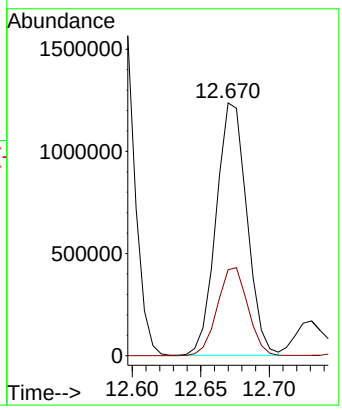





#79
2-Chlorotoluene
Concen: 99.268 ug/l
RT: 12.670 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 91 Resp: 193146

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.7 | 17.4 | 52.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

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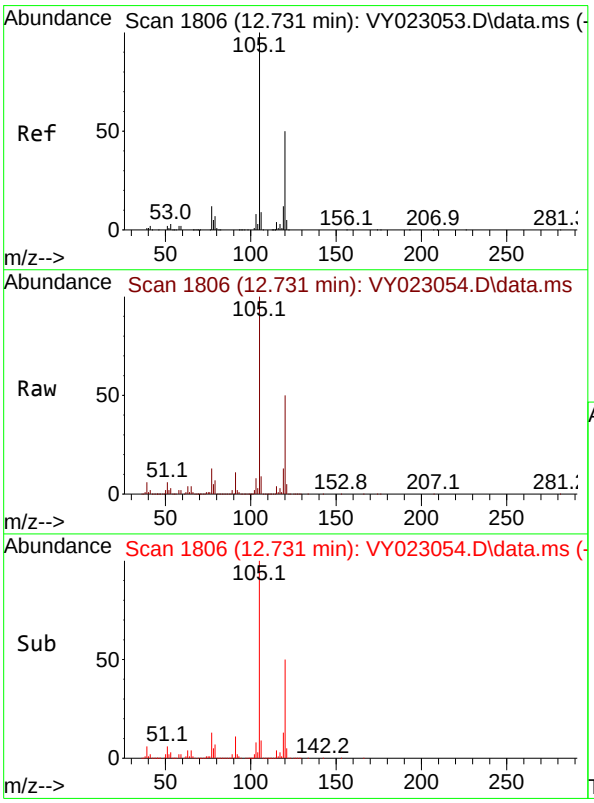
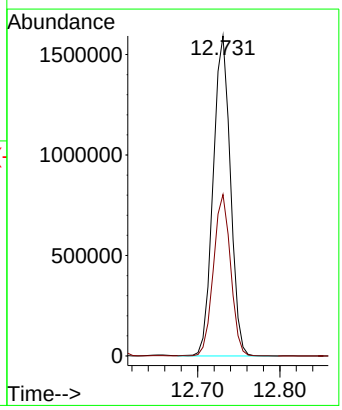
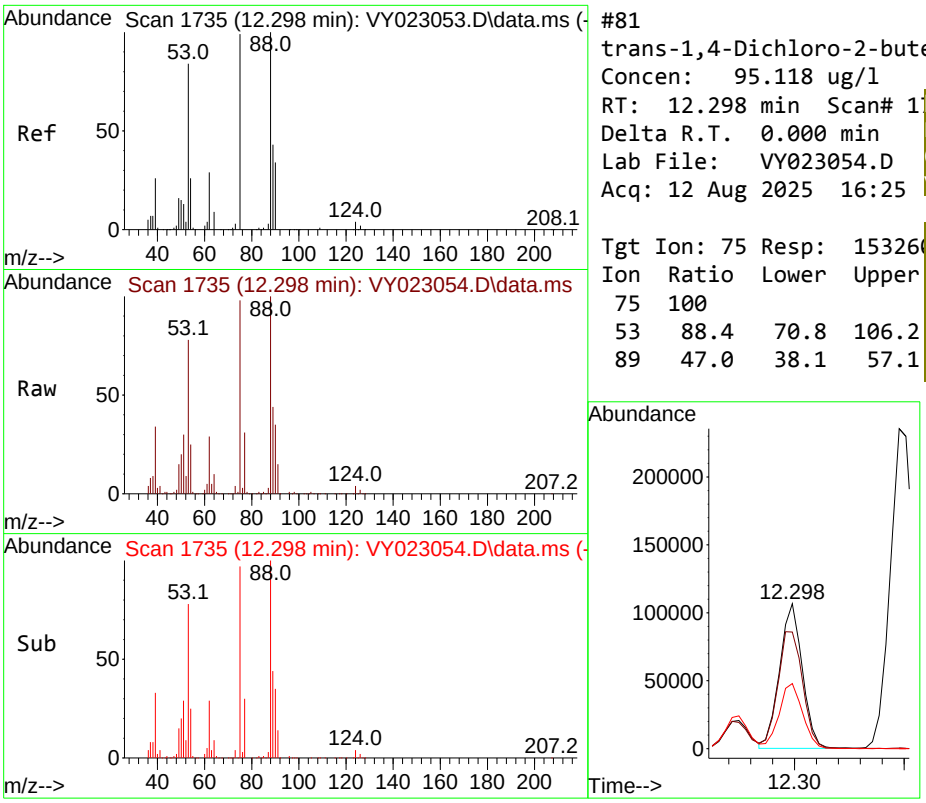



#80
1,3,5-Trimethylbenzene
Concen: 100.707 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:105 Resp: 2321527

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 50.2 | 24.8 | 74.4 |






#81
trans-1,4-Dichloro-2-butene
Concen: 95.118 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 75 Resp: 15326

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 88.4 | 70.8 | 106.2 |
| 89 | 47.0 | 38.1 | 57.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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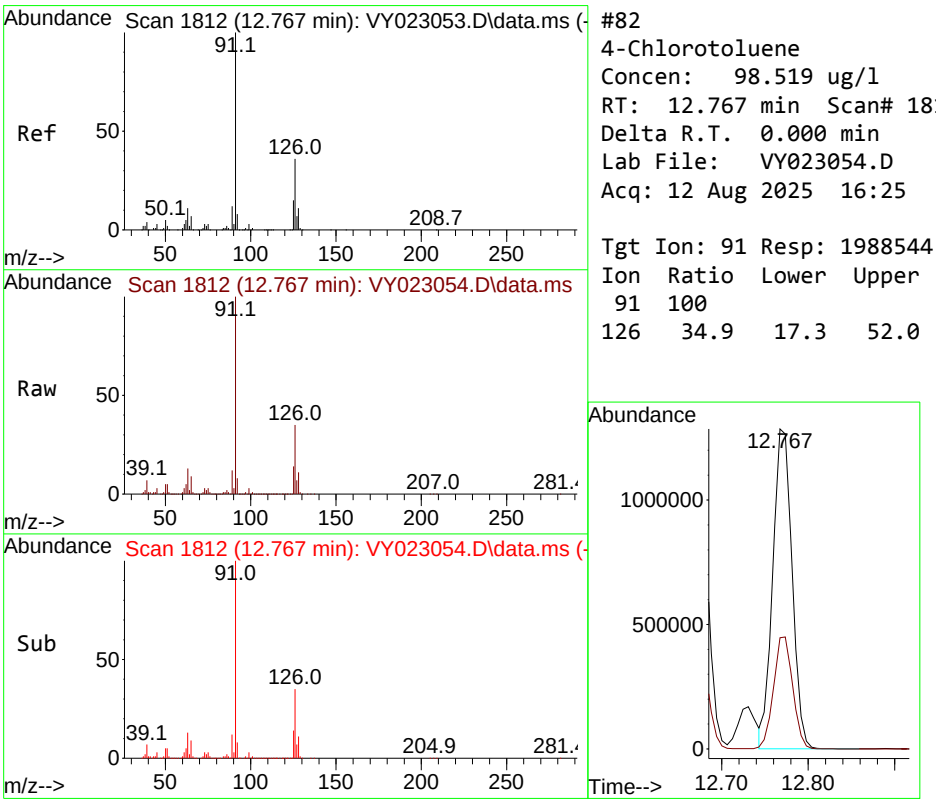
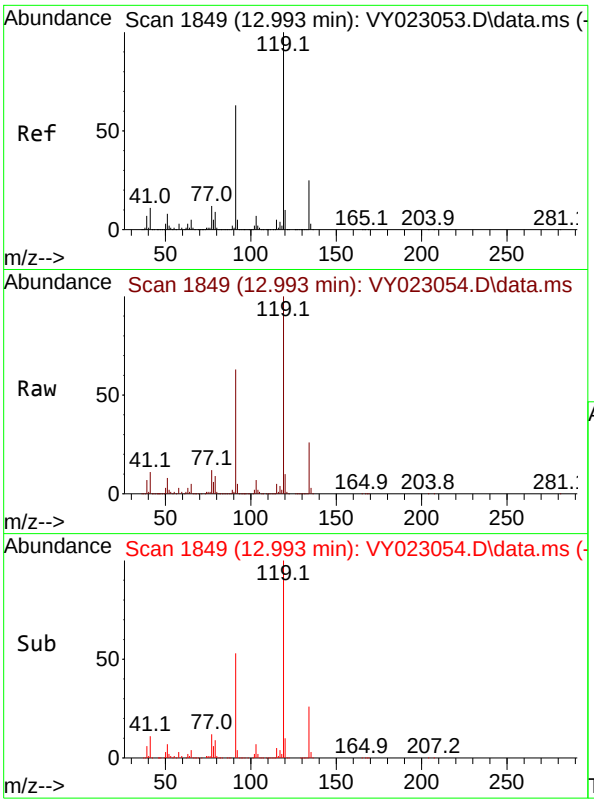



#82
4-Chlorotoluene
Concen: 98.519 ug/l
RT: 12.767 min Scan# 1812
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 91 Resp: 1988544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.9 | 17.3 | 52.0 |




#83
tert-Butylbenzene
Concen: 102.102 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

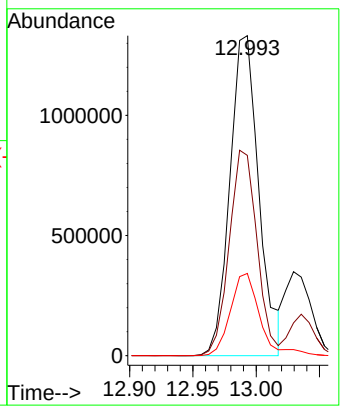
Tgt Ion:119 Resp: 212578

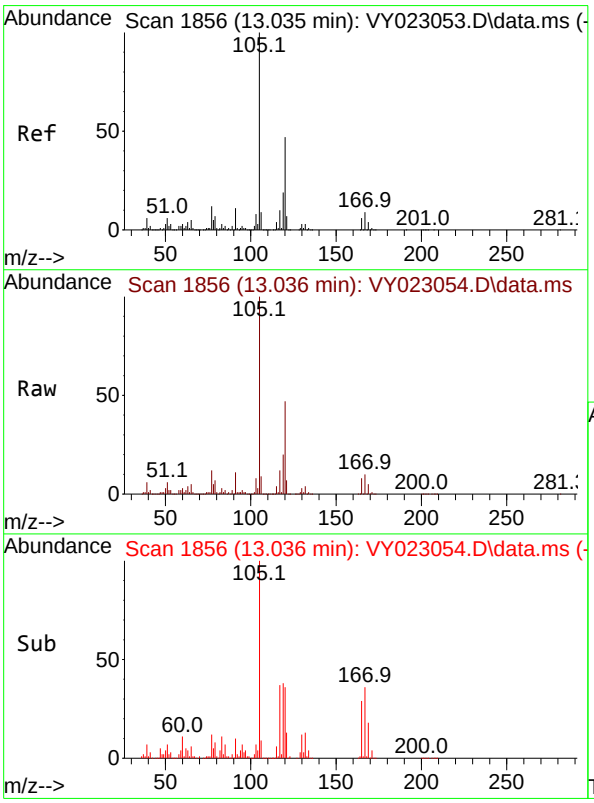
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 61.6 | 31.6 | 94.8 |
| 134 | 26.2 | 12.9 | 38.7 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

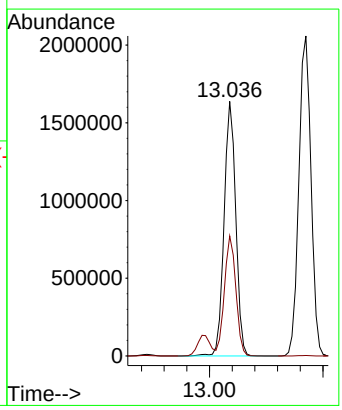


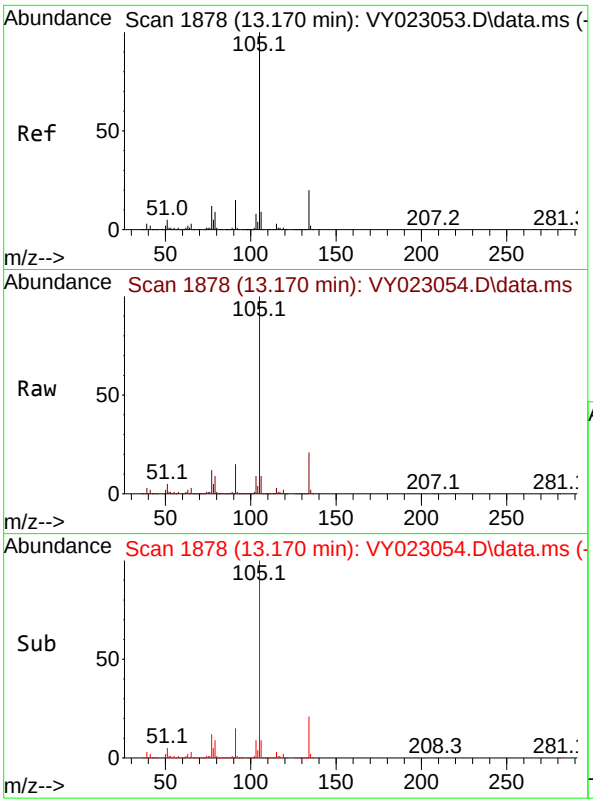




#84
1,2,4-Trimethylbenzene
Concen: 101.946 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:105 Resp: 2339432

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.2 | 23.0 | 69.0 |

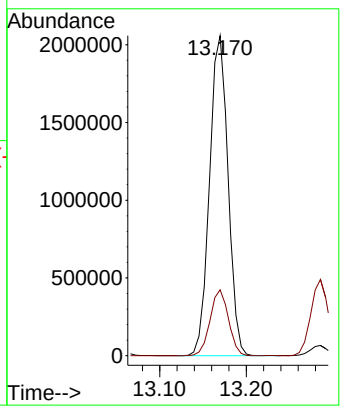





#85
sec-Butylbenzene
Concen: 99.932 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:105 Resp: 305637

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.4 | 10.2 | 30.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

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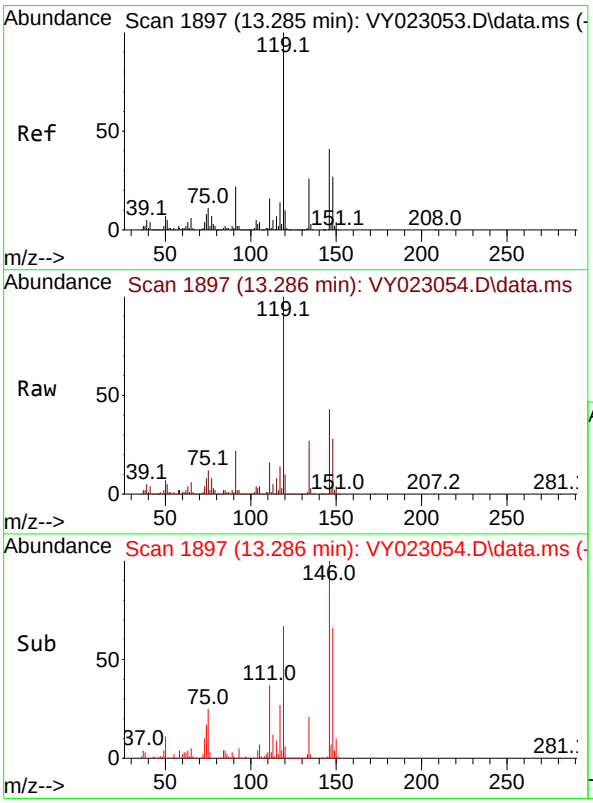
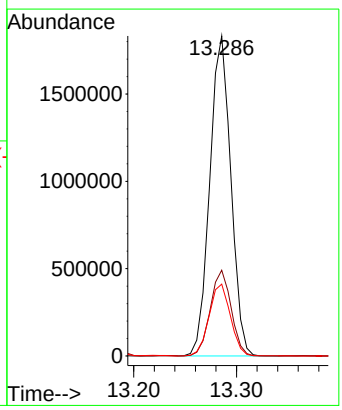
Supervised By :Semsettin Yesilyurt 08/14/2025

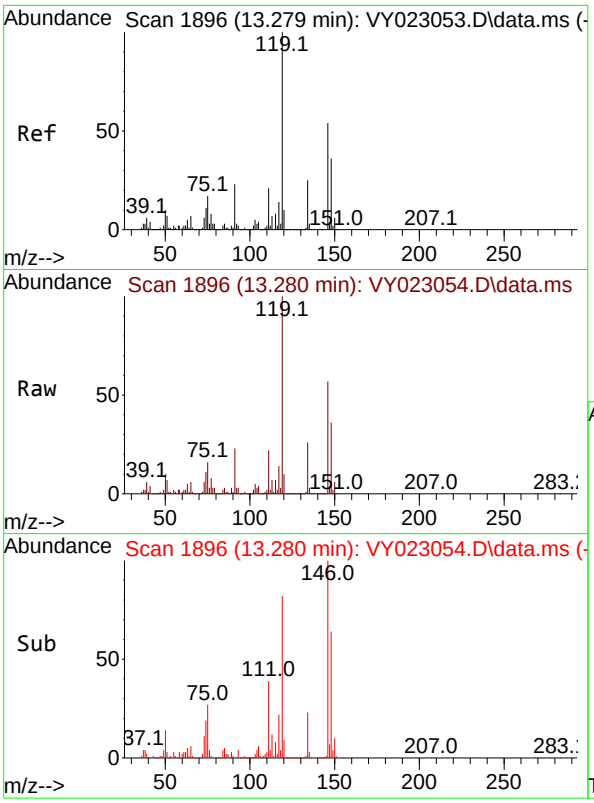



#86
p-Isopropyltoluene
Concen: 102.846 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:119 Resp: 2610936

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.5 | 13.2 | 39.6 |
| 91 | 22.7 | 11.3 | 33.8 |

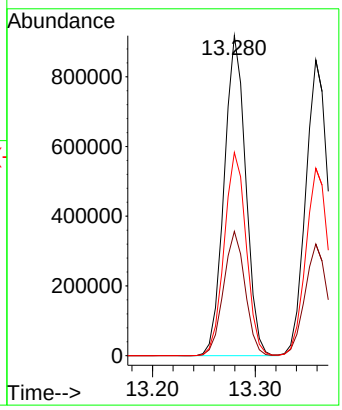





#87
1,3-Dichlorobenzene
Concen: 99.748 ug/l
RT: 13.280 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:146 Resp: 133854

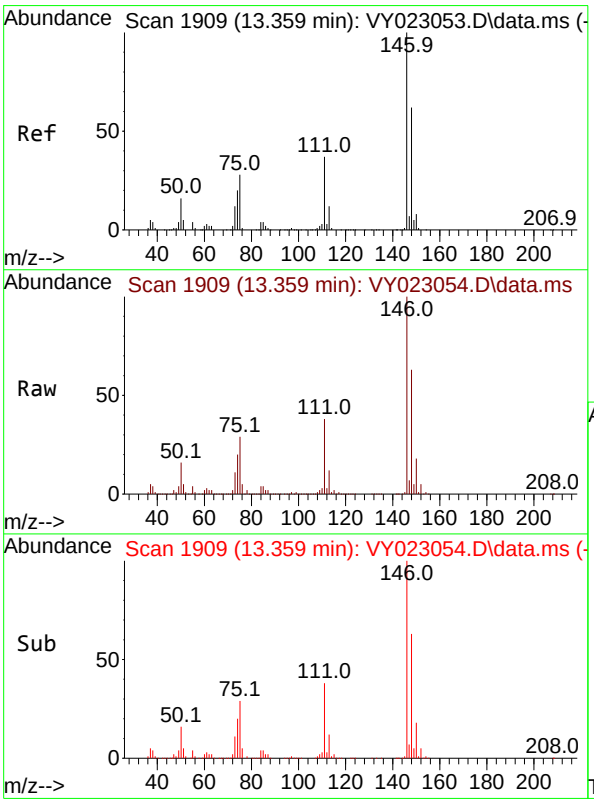
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.8 | 19.6 | 58.7 |
| 148 | 64.5 | 32.5 | 97.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

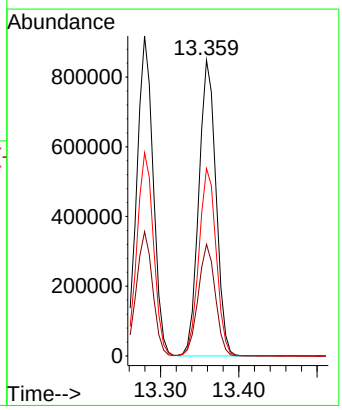
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

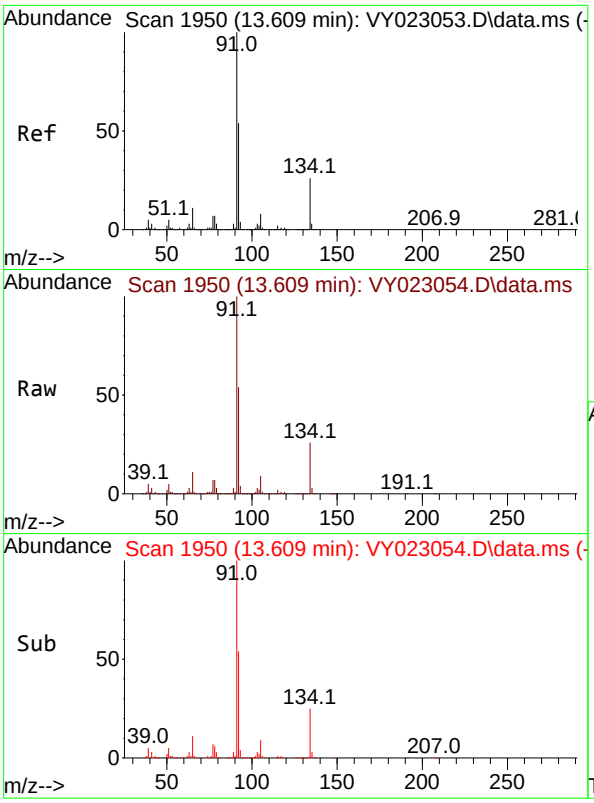



#88
1,4-Dichlorobenzene
Concen: 96.970 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:146 Resp: 1290840

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 37.5 | 19.1 | 57.1 |
| 148 | 63.7 | 31.6 | 94.7 |

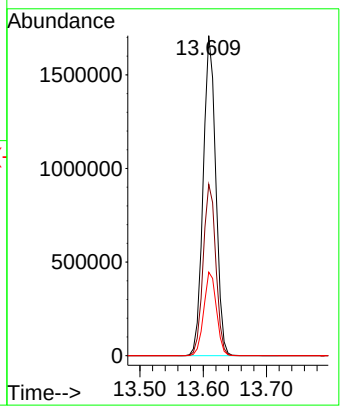





#89
n-Butylbenzene
Concen: 101.675 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 91 Resp: 237070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.9 | 26.9 | 80.7 |
| 134 | 26.4 | 13.2 | 39.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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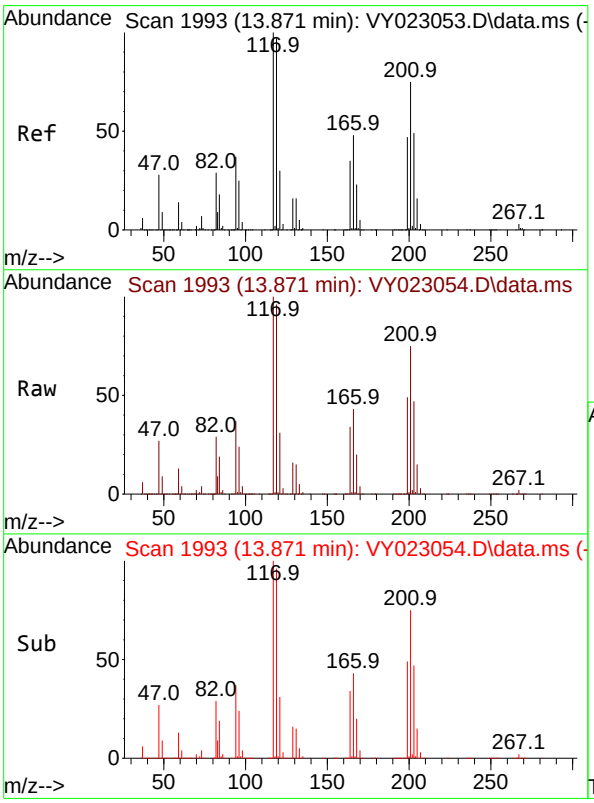
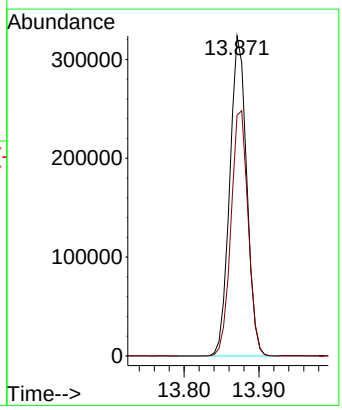
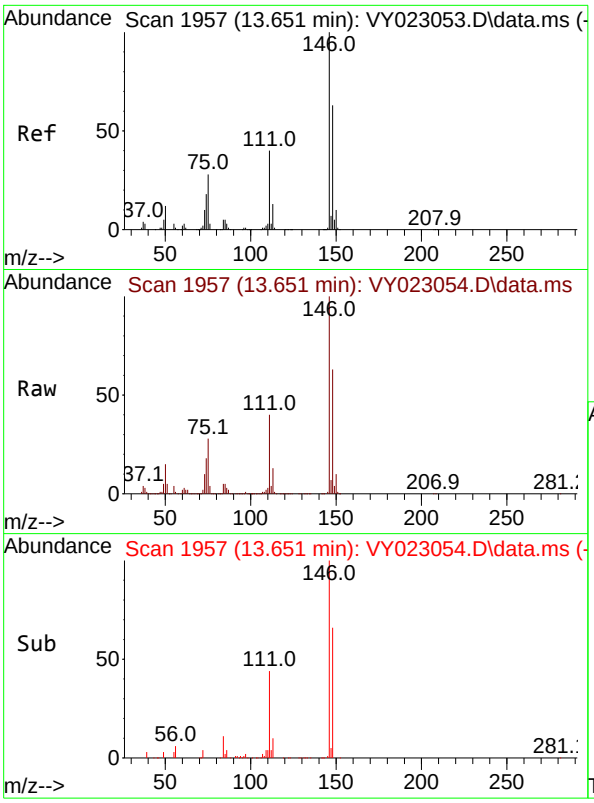



#90
Hexachloroethane
Concen: 98.308 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:117 Resp: 510900

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 77.6 | 38.4 | 115.1 |

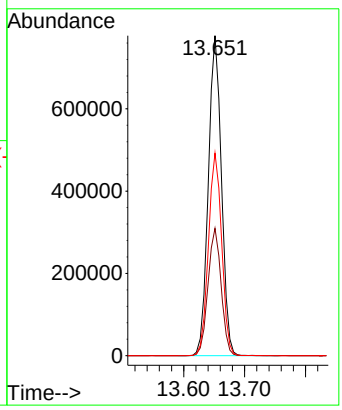





#91
1,2-Dichlorobenzene
Concen: 98.749 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:146 Resp: 116215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.9 | 20.3 | 60.8 |
| 148 | 63.9 | 32.2 | 96.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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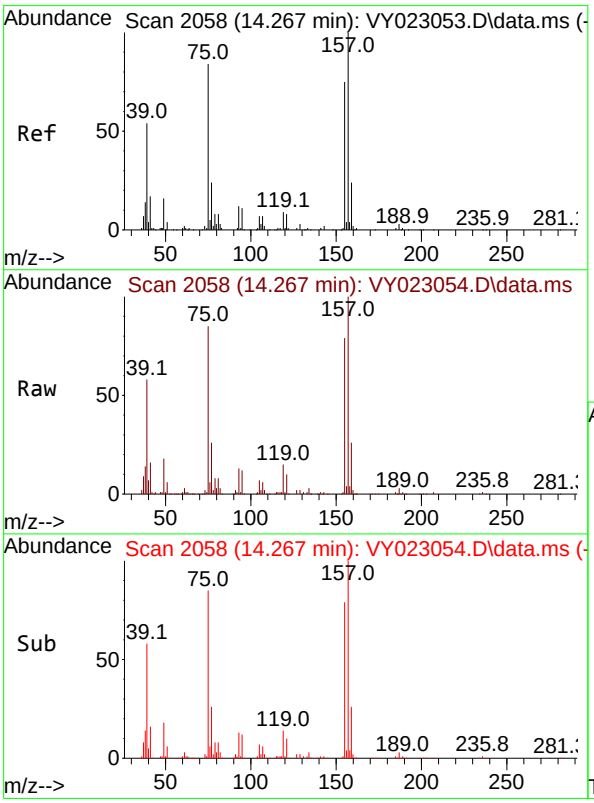
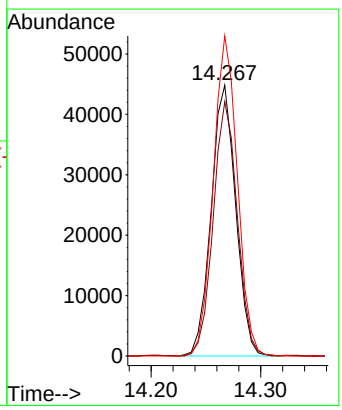
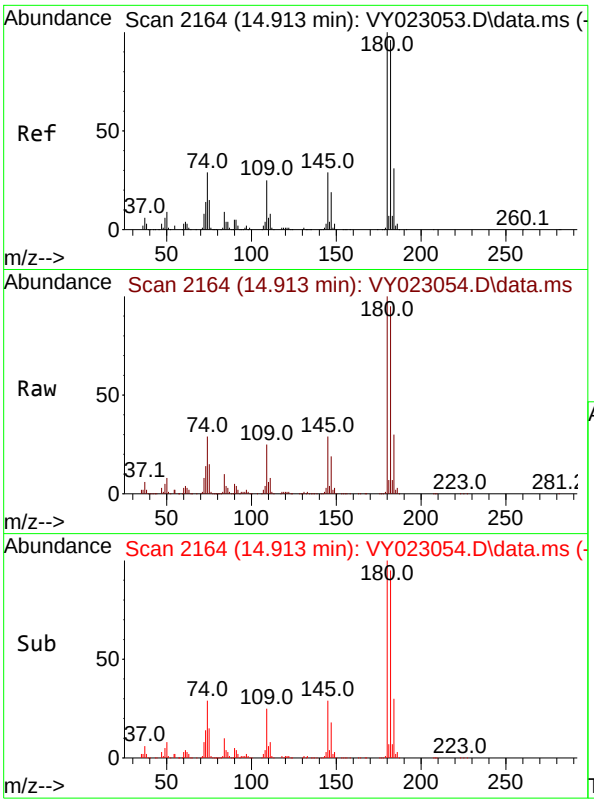



#92
1,2-Dibromo-3-Chloropropane
Concen: 91.965 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 75 Resp: 69736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 92.1 | 43.9 | 131.6 |
| 157 | 116.2 | 57.2 | 171.6 |

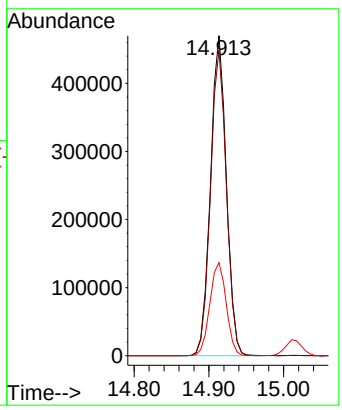





#93
1,2,4-Trichlorobenzene
Concen: 99.460 ug/l
RT: 14.913 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:180 Resp: 69220

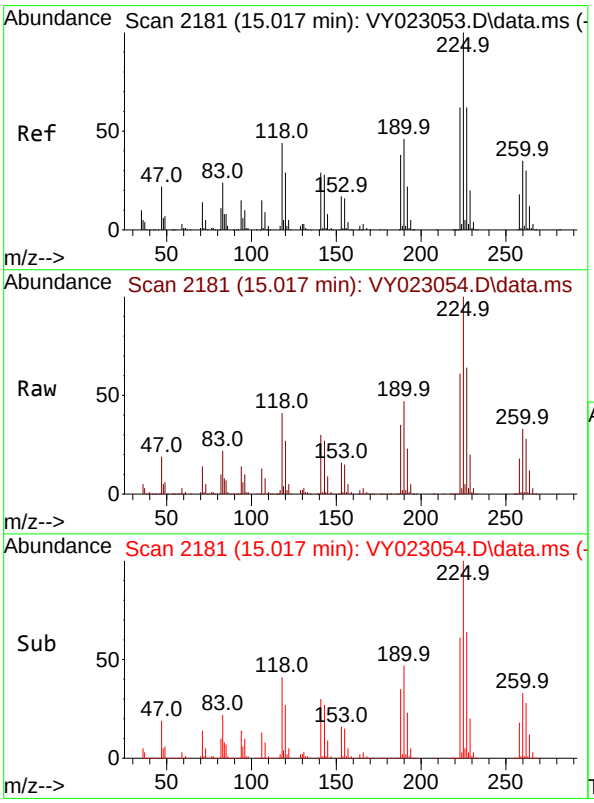
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.8 | 46.8 | 140.4 |
| 145 | 30.1 | 14.4 | 43.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

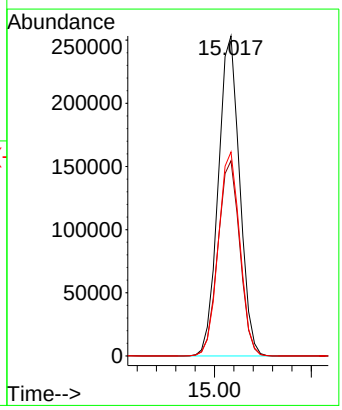
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

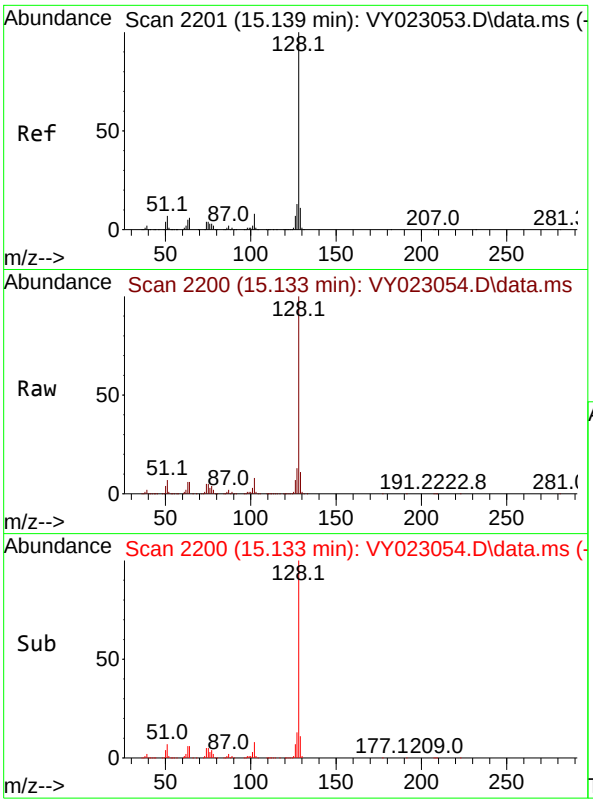



#94
Hexachlorobutadiene
Concen: 94.803 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:225 Resp: 387707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.4 | 31.3 | 93.8 |
| 227 | 64.2 | 31.5 | 94.5 |

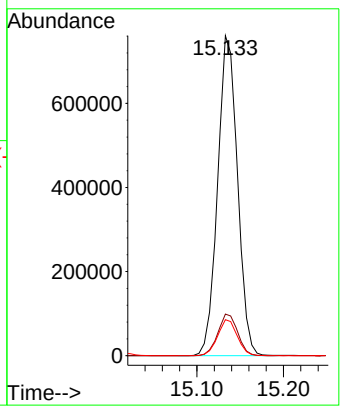





#95
Naphthalene
Concen: 102.147 ug/l
RT: 15.133 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:128 Resp: 121222

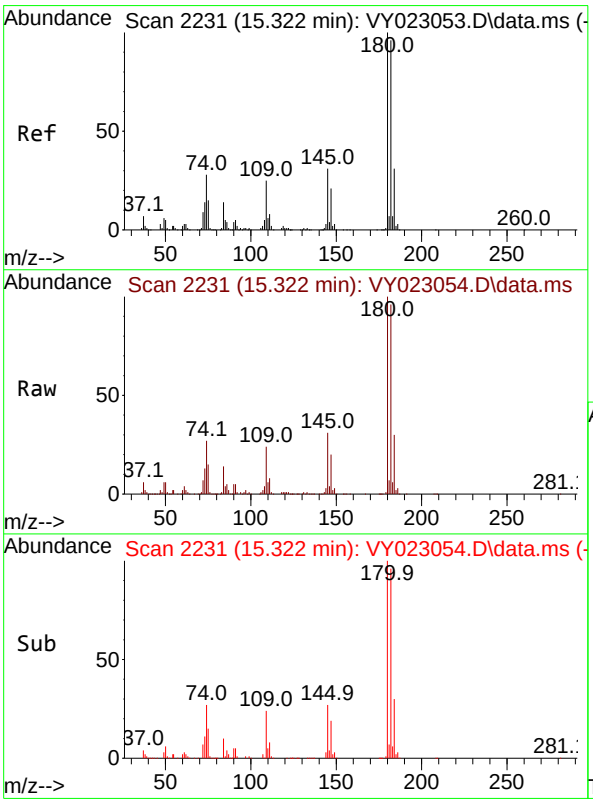
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.0 | 10.4 | 15.6 |
| 129 | 11.1 | 9.0 | 13.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

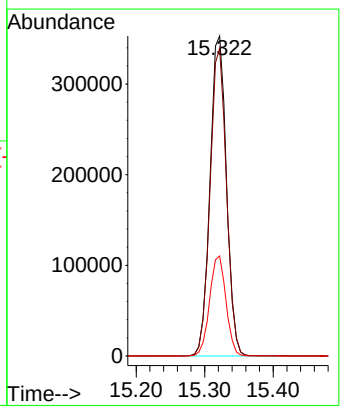
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025




#96
1,2,3-Trichlorobenzene
Concen: 98.046 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:180 Resp: 587990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.8 | 47.9 | 143.7 |
| 145 | 31.2 | 15.9 | 47.7 |



ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023055.D
Acq On : 12 Aug 2025 16:47
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:55:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.701 | 168 | 538712 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.610 | 114 | 844092 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.408 | 117 | 756365 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 389949 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.055 | 65 | 746936 | 145.480 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 290.960%# | | | |
| 35) Dibromofluoromethane | 7.628 | 113 | 771944 | 152.837 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 305.680%# | | | |
| 50) Toluene-d8 | 10.103 | 98 | 3003834 | 152.237 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 304.480%# | | | |
| 62) 4-Bromofluorobenzene | 12.402 | 95 | 998318 | 157.326 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 314.660%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.861 | 85 | 571723 | 130.017 | ug/l | 98 |
| 3) Chloromethane | 2.062 | 50 | 991215 | 139.173 | ug/l | 99 |
| 4) Vinyl Chloride | 2.202 | 62 | 1238646 | 140.692 | ug/l | 99 |
| 5) Bromomethane | 2.580 | 94 | 938717 | 142.770 | ug/l | 100 |
| 6) Chloroethane | 2.720 | 64 | 834547 | 142.581 | ug/l | 100 |
| 7) Trichlorofluoromethane | 3.043 | 101 | 1574213 | 147.051 | ug/l | 99 |
| 8) Diethyl Ether | 3.446 | 74 | 426242 | 150.496 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 3.806 | 101 | 763053 | 144.479 | ug/l | 99 |
| 10) Methyl Iodide | 3.995 | 142 | 909378 | 159.567 | ug/l | 100 |
| 11) Tert butyl alcohol | 4.860 | 59 | 265243 | 753.967 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 3.781 | 96 | 768098 | 147.960 | ug/l | 95 |
| 13) Acrolein | 3.647 | 56 | 374594 | 727.070 | ug/l | 98 |
| 14) Allyl chloride | 4.372 | 41 | 1151194 | 150.707 | ug/l | 99 |
| 15) Acrylonitrile | 5.049 | 53 | 883293 | 767.115 | ug/l | 99 |
| 16) Acetone | 3.866 | 43 | 777658 | 699.133 | ug/l | 100 |
| 17) Carbon Disulfide | 4.098 | 76 | 2426564 | 143.357 | ug/l | 99 |
| 18) Methyl Acetate | 4.379 | 43 | 500151 | 151.100 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.110 | 73 | 2113920 | 157.144 | ug/l | 99 |
| 20) Methylene Chloride | 4.604 | 84 | 846955 | 152.064 | ug/l | 99 |
| 21) trans-1,2-Dichloroethene | 5.110 | 96 | 889517 | 152.474 | ug/l | 97 |
| 22) Diisopropyl ether | 6.012 | 45 | 2594499 | 156.307 | ug/l | 99 |
| 23) Vinyl Acetate | 5.951 | 43 | 7267824 | 791.851 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 5.909 | 63 | 1527663 | 150.534 | ug/l | 99 |
| 25) 2-Butanone | 6.890 | 43 | 1144112 | 756.289 | ug/l | 97 |
| 26) 2,2-Dichloropropane | 6.878 | 77 | 1293043 | 147.663 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.884 | 96 | 1047717 | 155.348 | ug/l | 98 |
| 28) Bromochloromethane | 7.238 | 49 | 599841 | 148.984 | ug/l | 98 |
| 29) Tetrahydrofuran | 7.256 | 42 | 734408 | 783.186 | ug/l | 99 |
| 30) Chloroform | 7.415 | 83 | 1585686 | 151.505 | ug/l | 95 |
| 31) Cyclohexane | 7.695 | 56 | 1354021 | 141.586 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.610 | 97 | 1396470 | 150.372 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 7.829 | 75 | 1132306 | 150.850 | ug/l | 99 |
| 37) Ethyl Acetate | 6.982 | 43 | 494371 | 156.788 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.811 | 117 | 1226800 | 150.478 | ug/l | 96 |
| 39) Methylcyclohexane | 9.103 | 83 | 1556004 | 157.417 | ug/l | 98 |
| 40) Benzene | 8.073 | 78 | 3533174 | 152.720 | ug/l | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023055.D
Acq On : 12 Aug 2025 16:47
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 13 01:55:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.213 | 41 | 261721 | 143.669 | ug/l | | 90 |
| 42) 1,2-Dichloroethane | 8.152 | 62 | 909030 | 151.078 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.195 | 43 | 1029854 | 161.596 | ug/l | | 98 |
| 44) Trichloroethene | 8.860 | 130 | 909510 | 152.126 | ug/l | | 94 |
| 45) 1,2-Dichloropropane | 9.134 | 63 | 822035 | 154.426 | ug/l | | 99 |
| 46) Dibromomethane | 9.225 | 93 | 480162 | 157.156 | ug/l | | 100 |
| 47) Bromodichloromethane | 9.420 | 83 | 1217658 | 154.884 | ug/l | | 99 |
| 48) Methyl methacrylate | 9.213 | 41 | 497527 | 163.144 | ug/l | | 97 |
| 49) 1,4-Dioxane | 9.225 | 88 | 117513 | 3280.235 | ug/l | | 98 |
| 51) 4-Methyl-2-Pentanone | 9.993 | 43 | 2677587 | 814.509 | ug/l | | 99 |
| 52) Toluene | 10.164 | 92 | 2332797 | 158.762 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 1162952 | 163.355 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 1366797 | 162.359 | ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 10.567 | 97 | 642236 | 157.090 | ug/l | | 98 |
| 56) Ethyl methacrylate | 10.432 | 69 | 908662 | 173.693 | ug/l | | 100 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 1087297 | 156.818 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 2167815 | 878.488 | ug/l | | 99 |
| 59) 2-Hexanone | 10.756 | 43 | 1848093 | 825.606 | ug/l | | 100 |
| 60) Dibromochloromethane | 10.908 | 129 | 860181 | 159.454 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.012 | 107 | 613069 | 159.546 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.640 | 164 | 990664 | 146.682 | ug/l | | 98 |
| 65) Chlorobenzene | 11.438 | 112 | 2520874 | 154.514 | ug/l | | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 11.511 | 131 | 871003 | 157.304 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.511 | 91 | 4438665 | 158.093 | ug/l | | 98 |
| 68) m/p-Xylenes | 11.621 | 106 | 3511726 | 320.251 | ug/l | | 96 |
| 69) o-Xylene | 11.950 | 106 | 1683720 | 163.941 | ug/l | | 100 |
| 70) Styrene | 11.963 | 104 | 2846443 | 169.475 | ug/l | | 99 |
| 71) Bromoform | 12.127 | 173 | 523541 | 161.778 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.249 | 105 | 4269945 | 155.145 | ug/l | | 99 |
| 74) N-amyl acetate | 12.066 | 43 | 982090 | 168.265 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.499 | 83 | 717524 | 152.686 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.548 | 75 | 519276m | 137.890 | ug/l | | |
| 77) Bromobenzene | 12.523 | 156 | 1021449 | 155.568 | ug/l | | 99 |
| 78) n-propylbenzene | 12.591 | 91 | 5048012 | 154.058 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 2878647 | 153.331 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.731 | 105 | 3469329 | 155.973 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.298 | 75 | 245958 | 158.203 | ug/l | | 97 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 2981042 | 153.063 | ug/l | | 99 |
| 83) tert-Butylbenzene | 12.993 | 119 | 3161475 | 157.371 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.036 | 105 | 3501626 | 158.143 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.170 | 105 | 4541629 | 153.897 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.286 | 119 | 3918969 | 159.987 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.279 | 146 | 2049060 | 158.251 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.359 | 146 | 1941716 | 151.172 | ug/l | | 98 |
| 89) n-Butylbenzene | 13.609 | 91 | 3578272 | 159.048 | ug/l | | 100 |
| 90) Hexachloroethane | 13.871 | 117 | 772603 | 154.073 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 13.651 | 146 | 1754100 | 154.469 | ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.267 | 75 | 114505 | 156.498 | ug/l | | 96 |
| 93) 1,2,4-Trichlorobenzene | 14.913 | 180 | 1117401 | 166.397 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 15.017 | 225 | 589351 | 149.352 | ug/l | | 99 |
| 95) Naphthalene | 15.139 | 128 | 2094983 | 182.954 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.322 | 180 | 975366 | 168.557 | ug/l | | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023055.D
Acq On : 12 Aug 2025 16:47
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 01:55:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

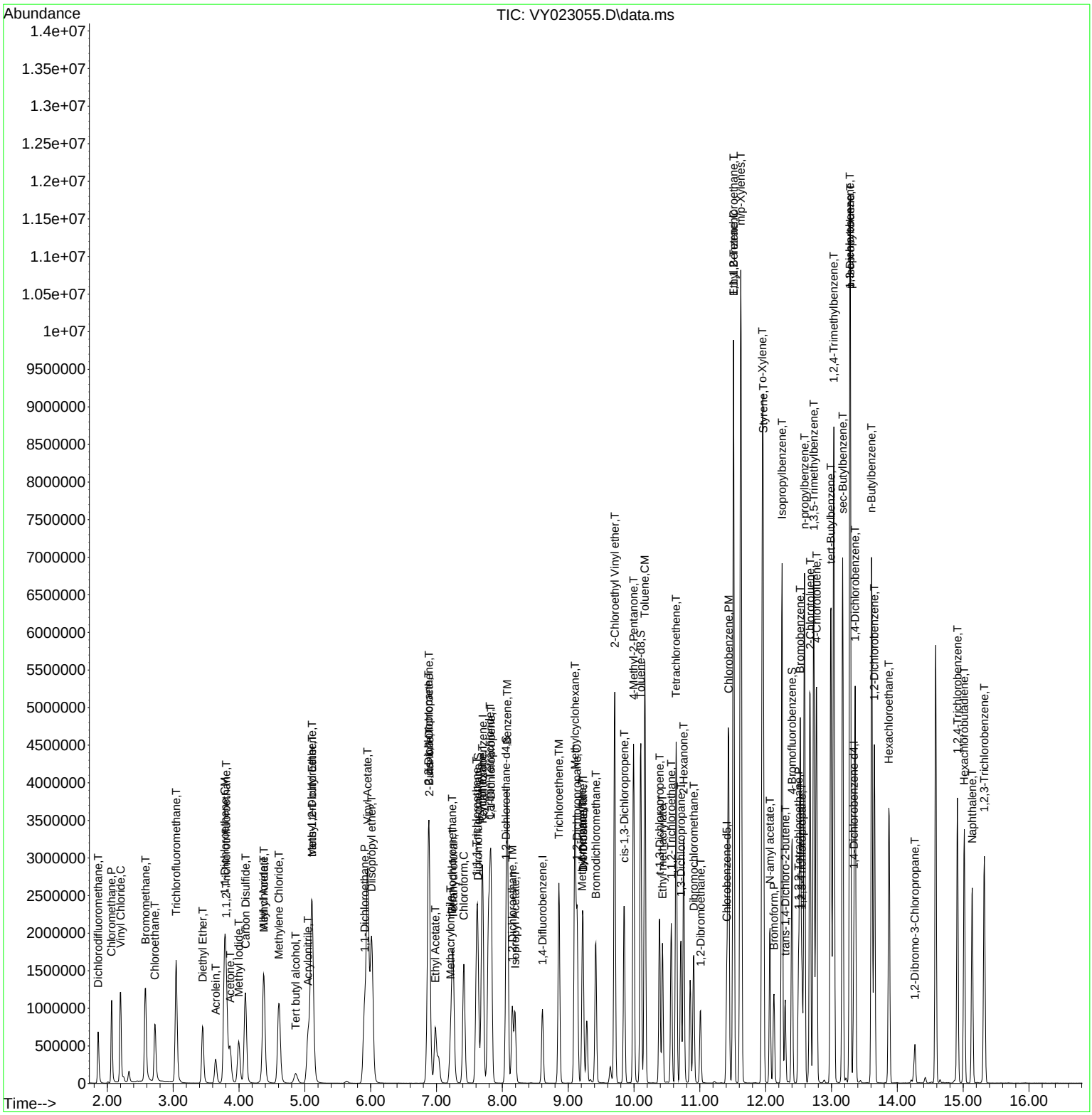
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023055.D
Acq On : 12 Aug 2025 16:47
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

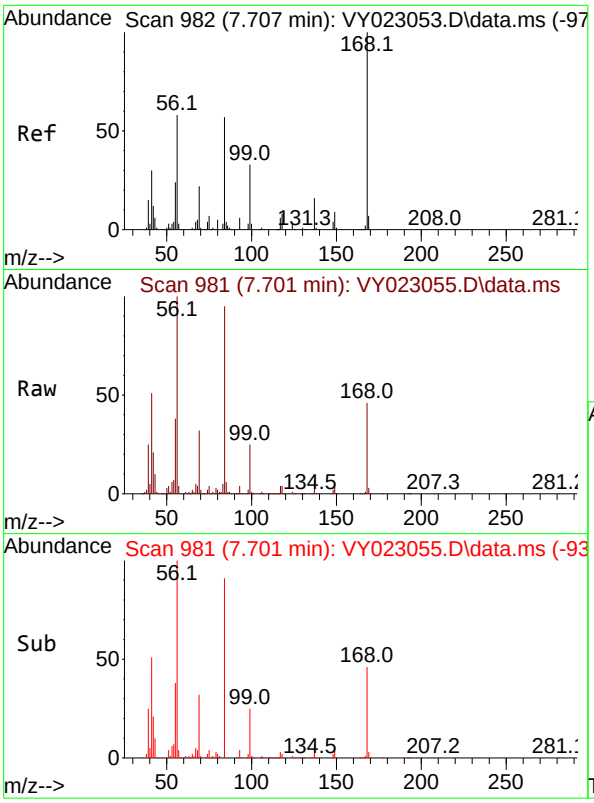
Quant Time: Aug 13 01:55:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

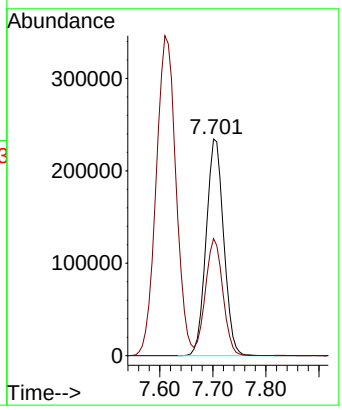





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:168 Resp: 53871

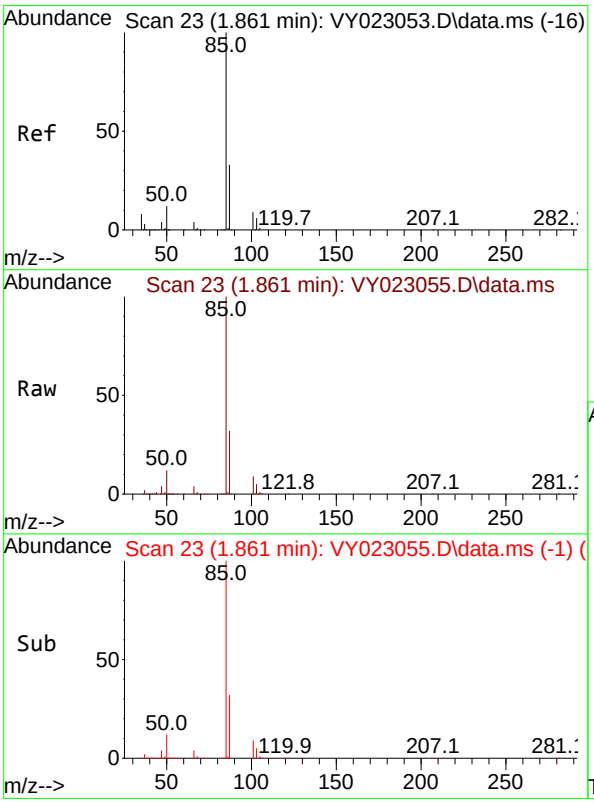
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 53.8 | 42.8 | 64.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

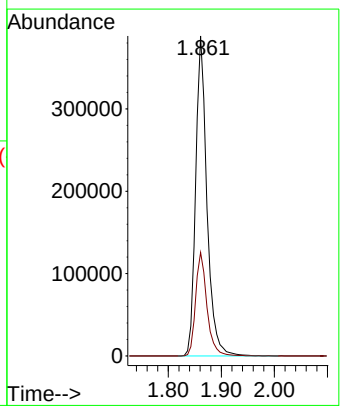
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

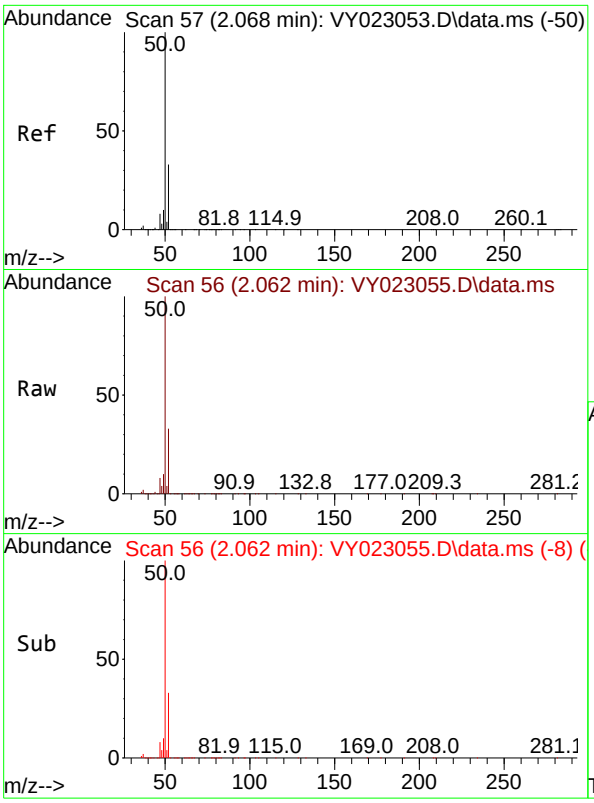



#2
Dichlorodifluoromethane
Concen: 130.017 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 85 Resp: 571723

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.3 | 16.6 | 49.8 |

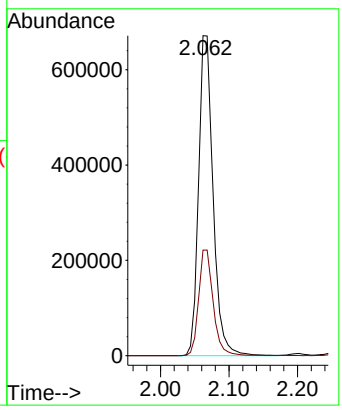





#3
Chloromethane
Concen: 139.173 ug/l
RT: 2.062 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 50 Resp: 99121

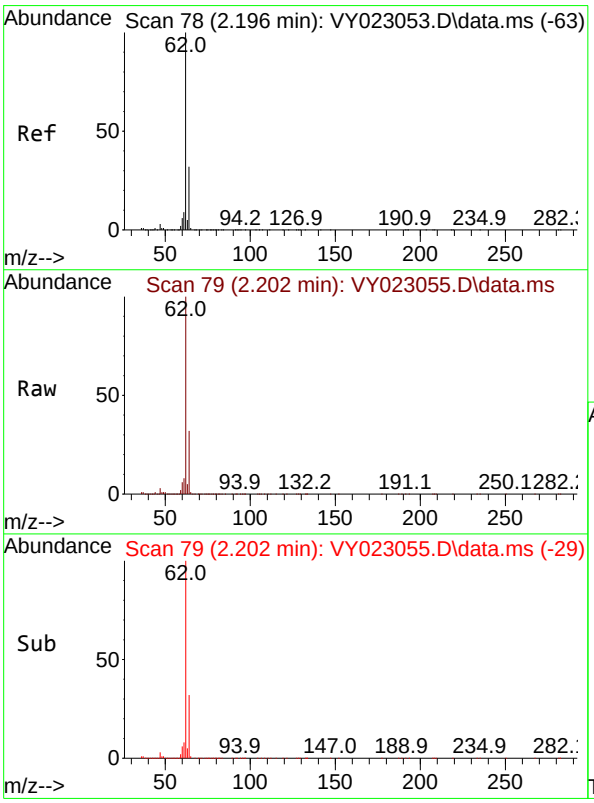
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.0 | 26.7 | 40.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

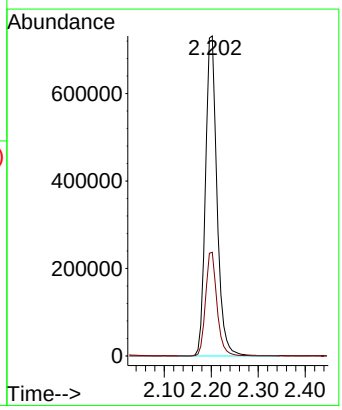
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

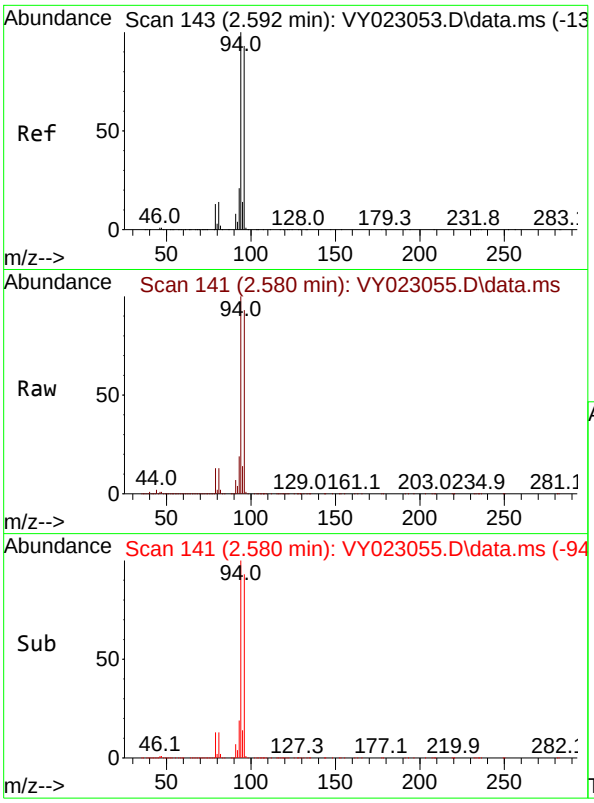



#4
Vinyl Chloride
Concen: 140.692 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 62 Resp: 1238646

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.4 | 25.4 | 38.0 |






#5
Bromomethane
Concen: 142.770 ug/l
RT: 2.580 min Scan# 14
Delta R.T. -0.012 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

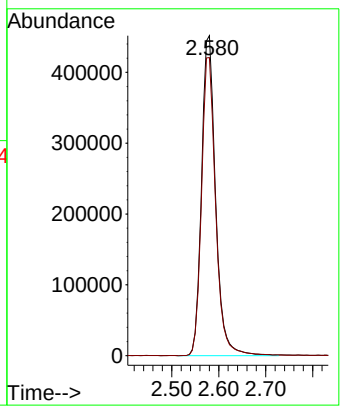
Tgt Ion: 94 Resp: 93871

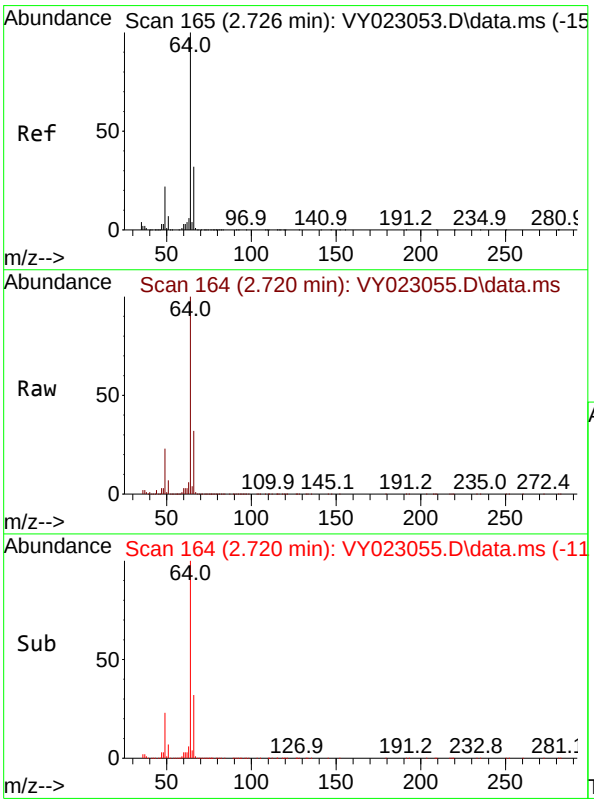
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 93.2 | 74.6 | 112.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

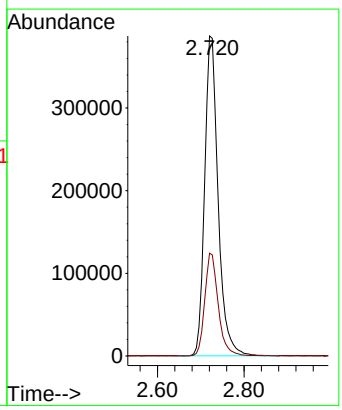


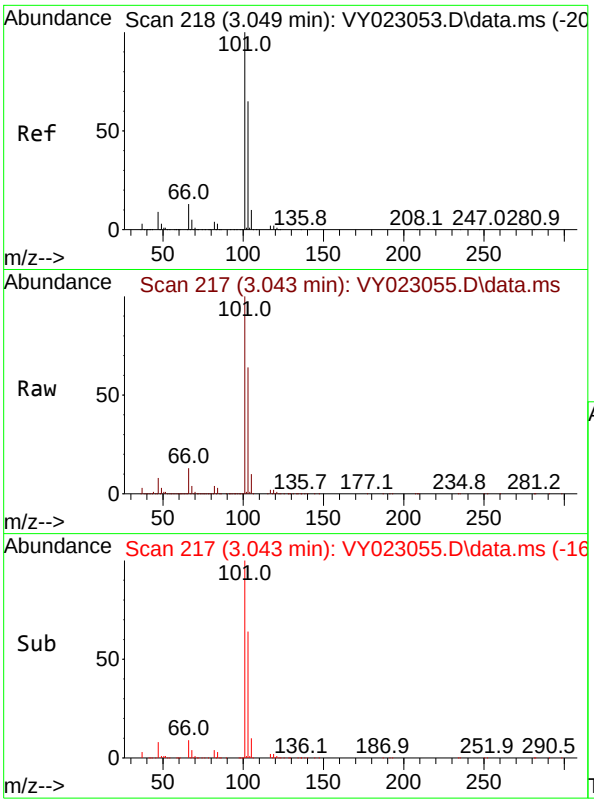




#6
Chloroethane
Concen: 142.581 ug/l
RT: 2.720 min Scan# 164
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 64 Resp: 834547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.1 | 25.8 | 38.6 |

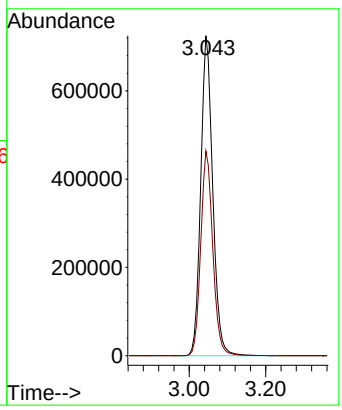





#7
Trichlorofluoromethane
Concen: 147.051 ug/l
RT: 3.043 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:101 Resp: 157421

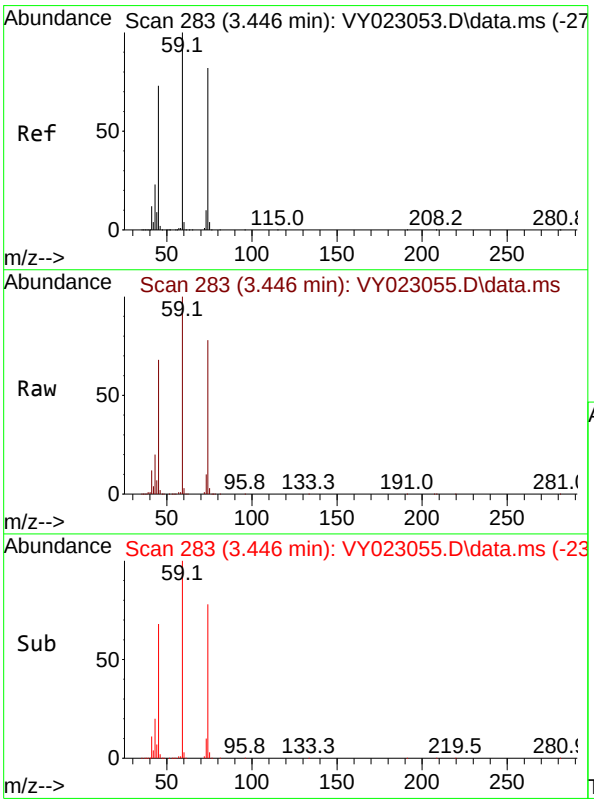
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.9 | 51.9 | 77.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

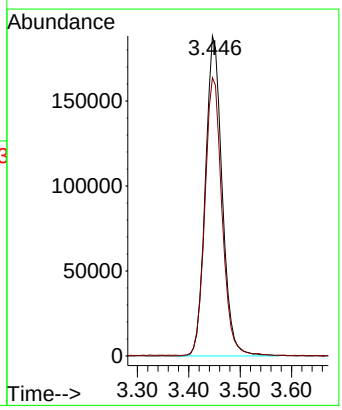
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

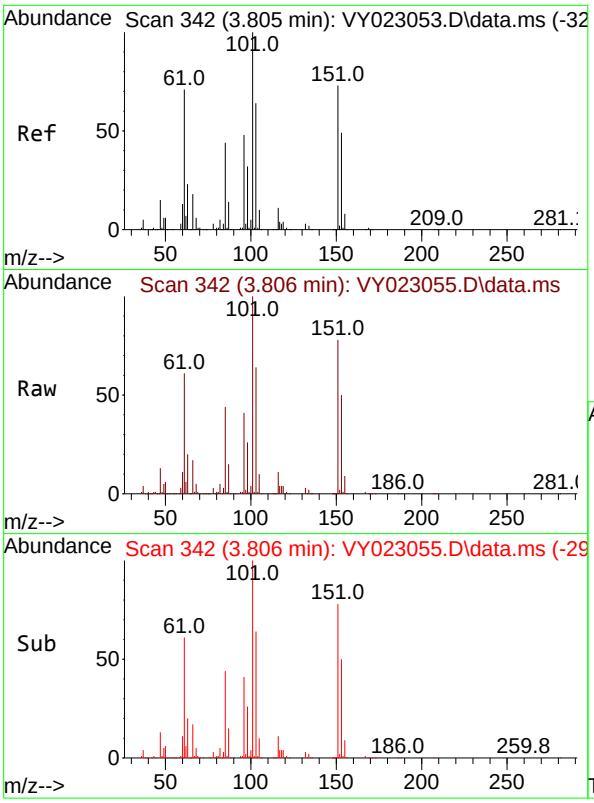



#8
Diethyl Ether
Concen: 150.496 ug/l
RT: 3.446 min Scan# 283
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 74 Resp: 426242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 88.9 | 44.4 | 133.2 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 144.479 ug/l
RT: 3.806 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:101 Resp: 76305

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 44.7 | 36.3 | 54.5 |
| 151 | 77.4 | 61.5 | 92.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

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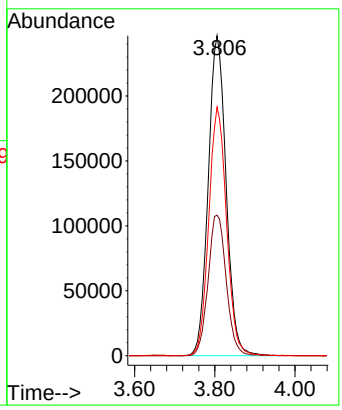
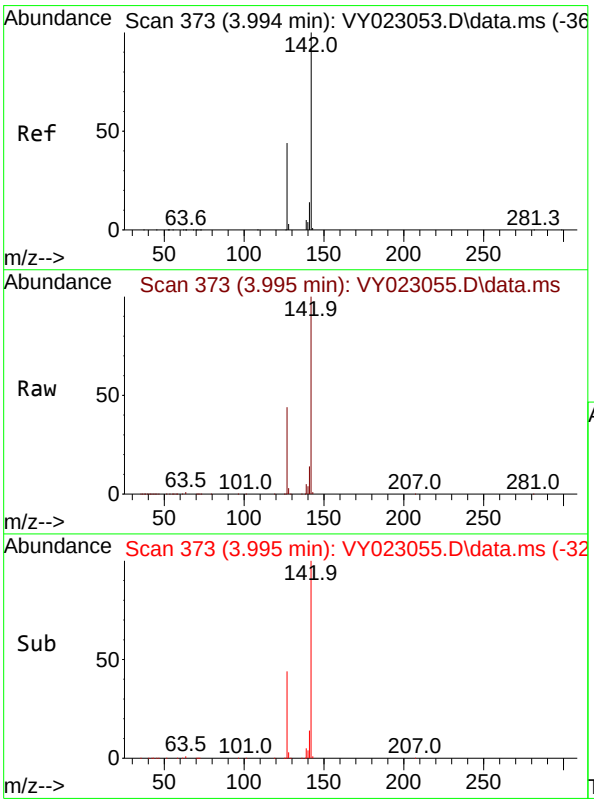
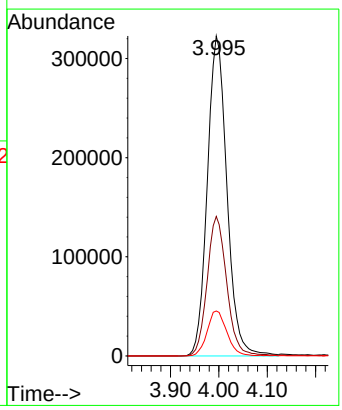


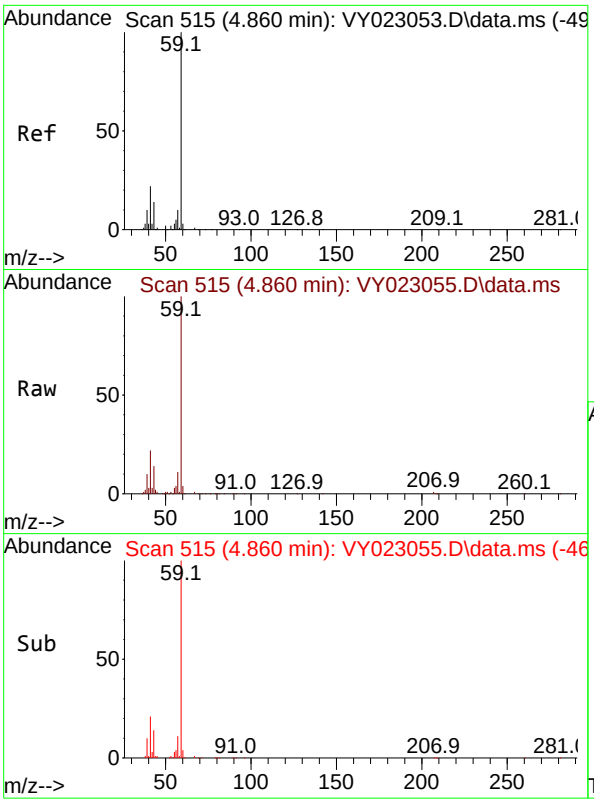




#10
Methyl Iodide
Concen: 159.567 ug/l
RT: 3.995 min Scan# 373
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:142 Resp: 909378

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 43.7 | 34.9 | 52.3 |
| 141 | 14.2 | 11.3 | 16.9 |

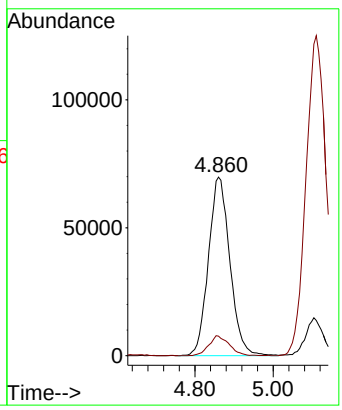





#11
Tert butyl alcohol
Concen: 753.967 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 59 Resp: 26524

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.7 | 8.6 | 13.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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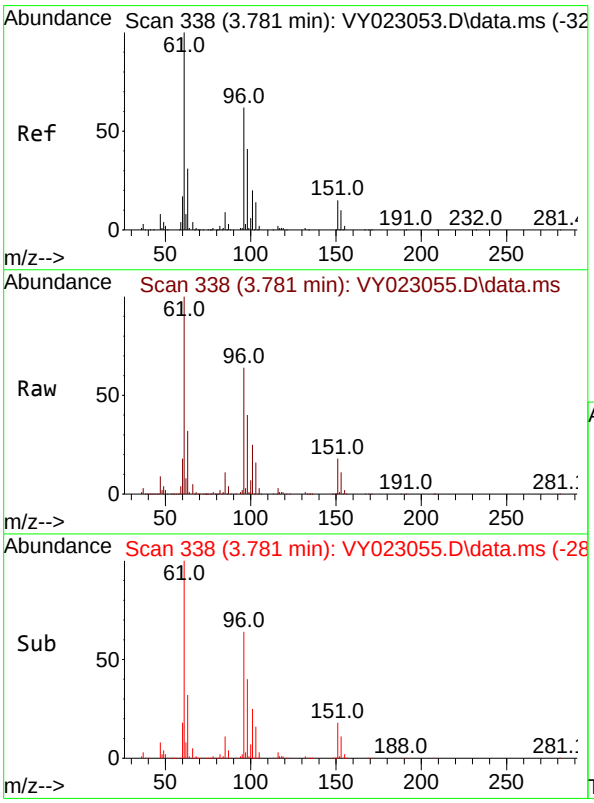
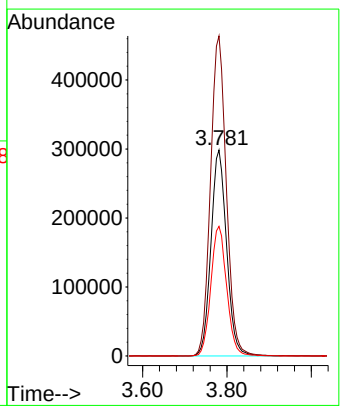
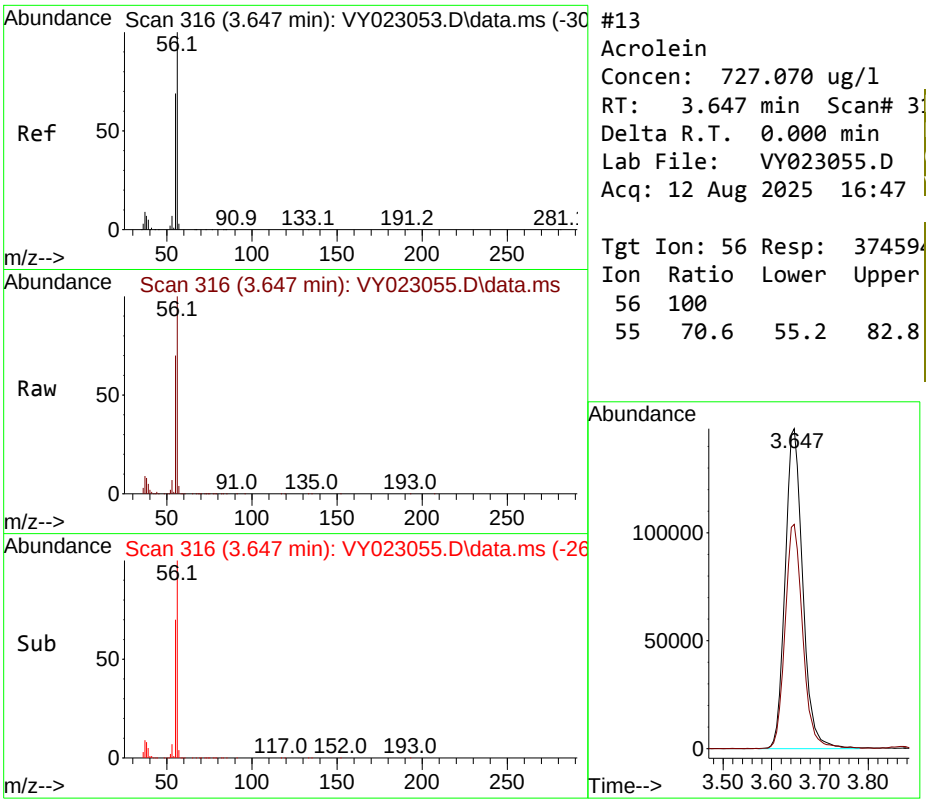



#12
1,1-Dichloroethene
Concen: 147.960 ug/l
RT: 3.781 min Scan# 338
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 96 Resp: 768098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 155.4 | 129.4 | 194.2 |
| 98 | 62.9 | 52.8 | 79.2 |






#13
Acrolein
Concen: 727.070 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 56 Resp: 37459

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 70.6 | 55.2 | 82.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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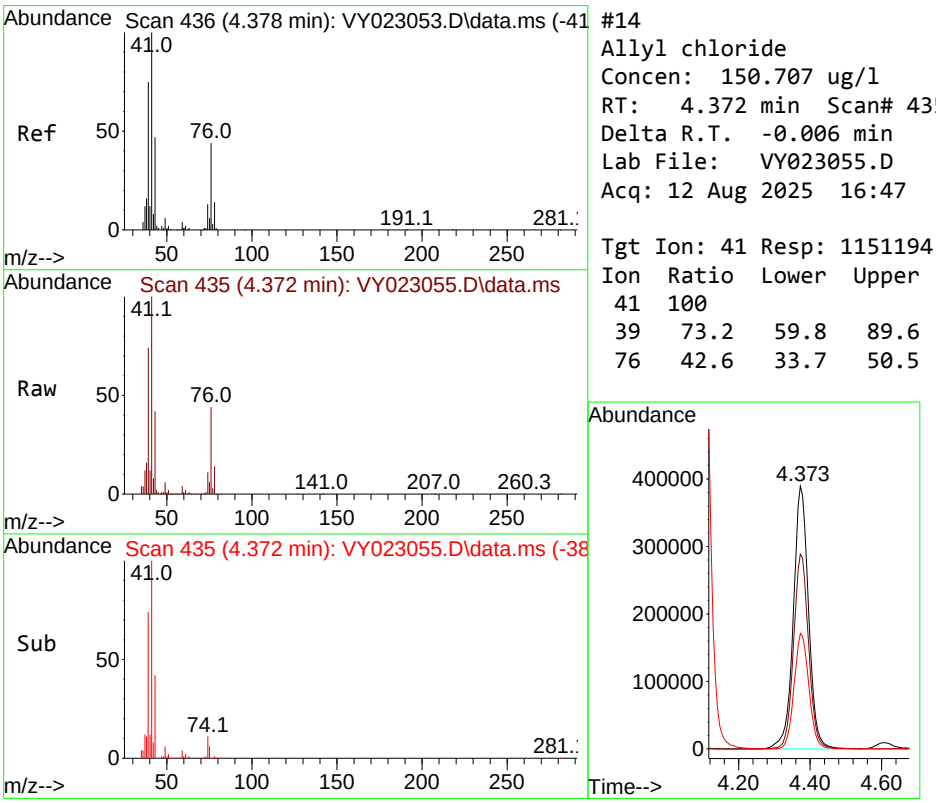
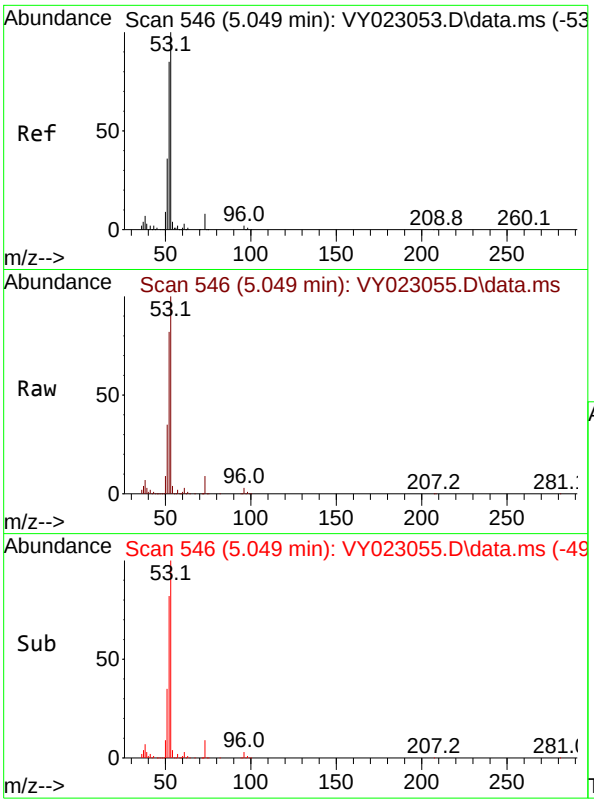



#14
Allyl chloride
Concen: 150.707 ug/l
RT: 4.372 min Scan# 435
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 41 Resp: 1151194

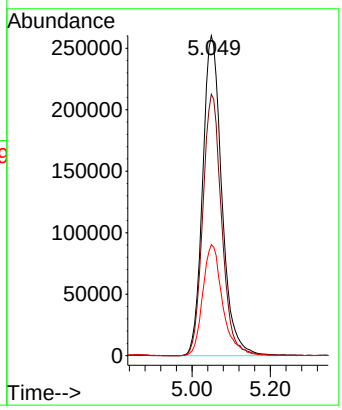
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 73.2 | 59.8 | 89.6 |
| 76 | 42.6 | 33.7 | 50.5 |




#15
Acrylonitrile
Concen: 767.115 ug/l
RT: 5.049 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 53 Resp: 88329

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 80.4 | 65.3 | 97.9 |
| 51 | 36.2 | 29.5 | 44.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

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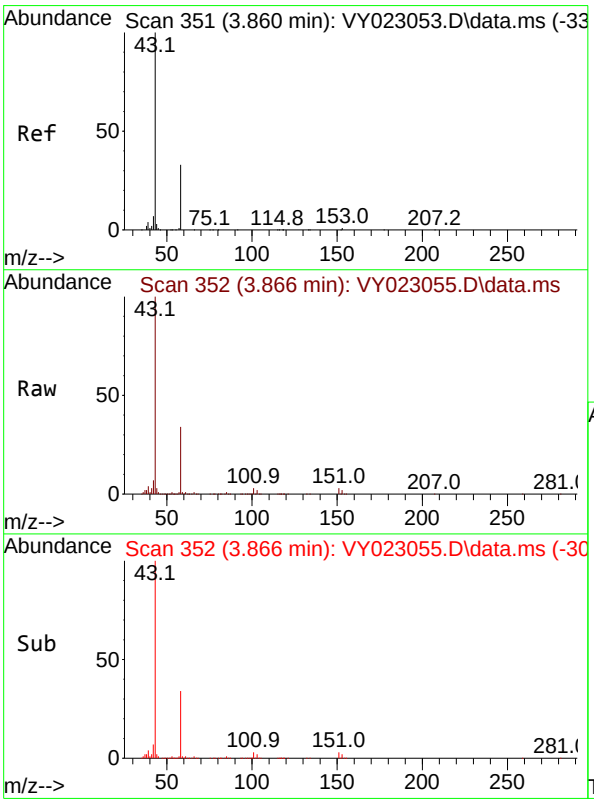
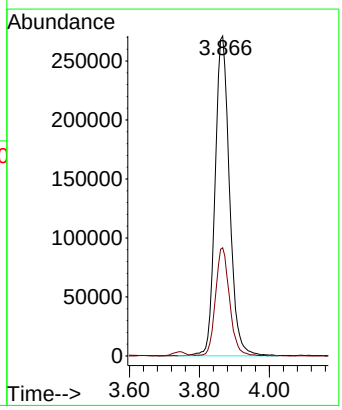
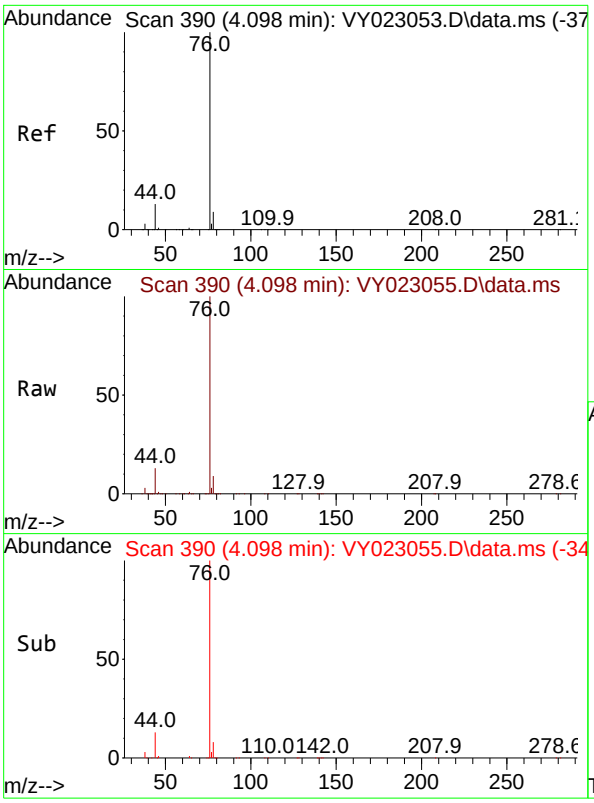



#16
Acetone
Concen: 699.133 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 43 Resp: 777658

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.7 | 27.1 | 40.7 |






#17
Carbon Disulfide
Concen: 143.357 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 76 Resp: 242656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.9 | 7.4 | 11.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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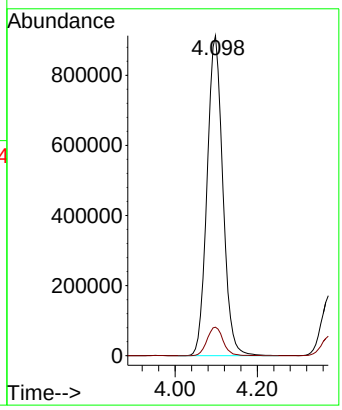
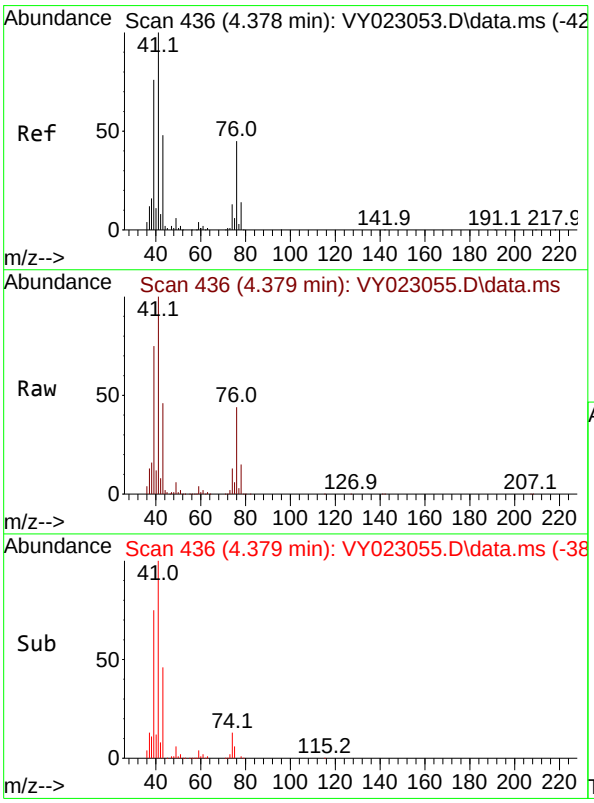
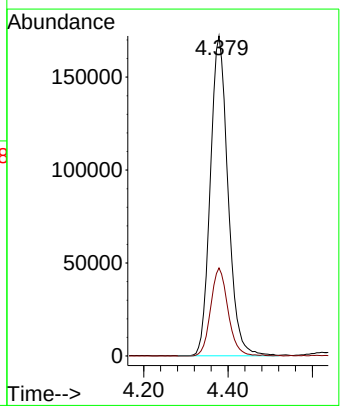


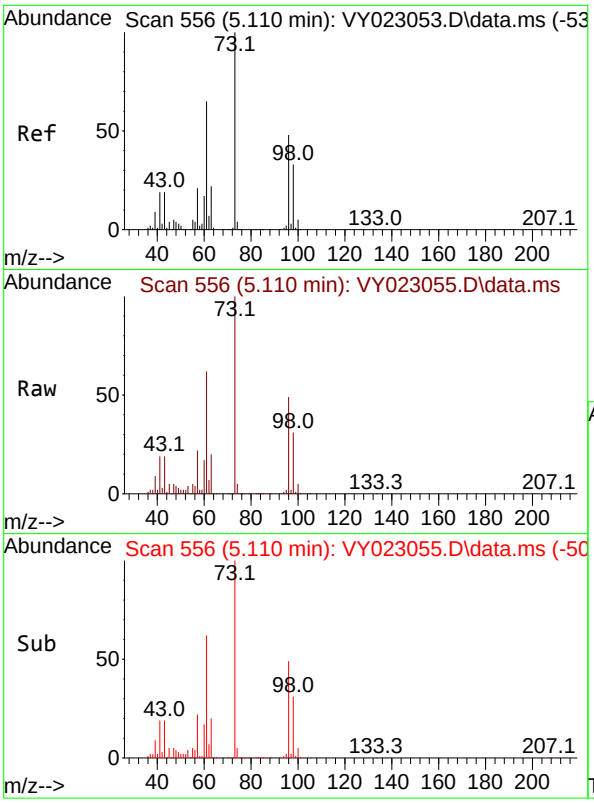




#18
Methyl Acetate
Concen: 151.100 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 43 Resp: 500151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 27.1 | 21.2 | 31.8 |

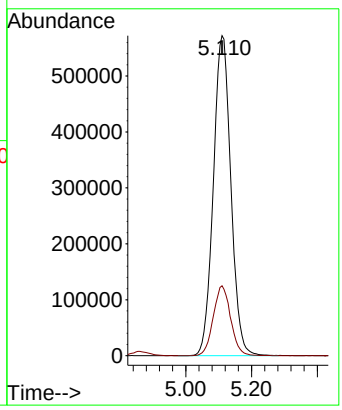





#19
Methyl tert-butyl Ether
Concen: 157.144 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 73 Resp: 211392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.9 | 17.1 | 25.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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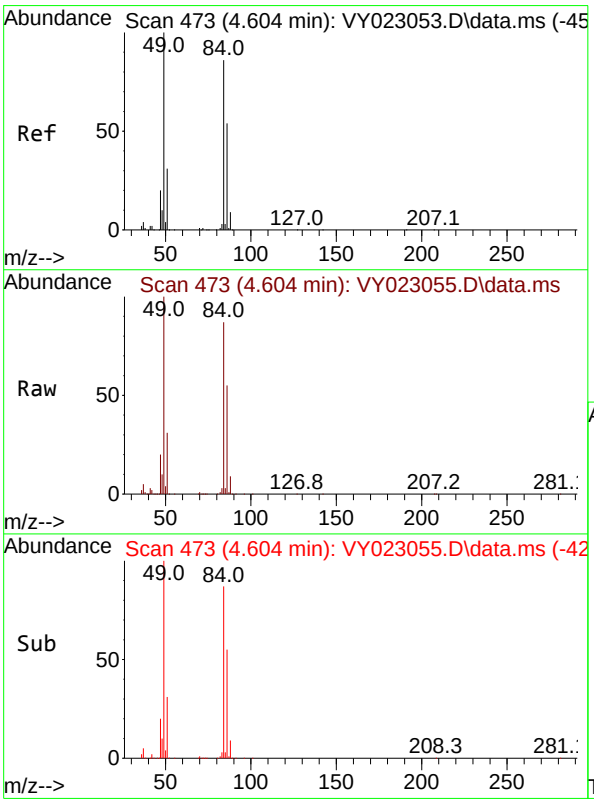
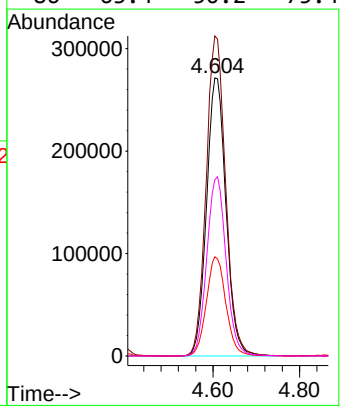
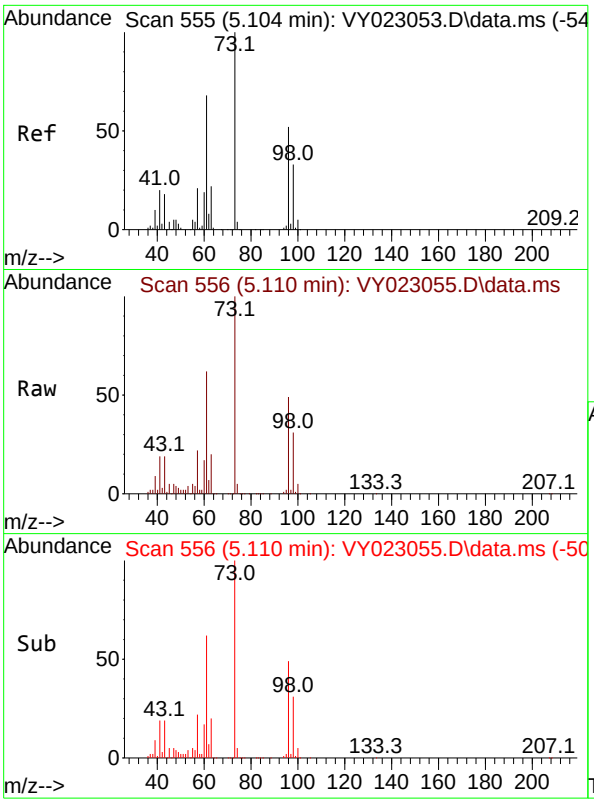



#20
Methylene Chloride
Concen: 152.064 ug/l
RT: 4.604 min Scan# 473
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 84 Resp: 846955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 115.1 | 93.0 | 139.6 |
| 51 | 35.7 | 29.0 | 43.4 |
| 86 | 63.4 | 50.2 | 75.4 |

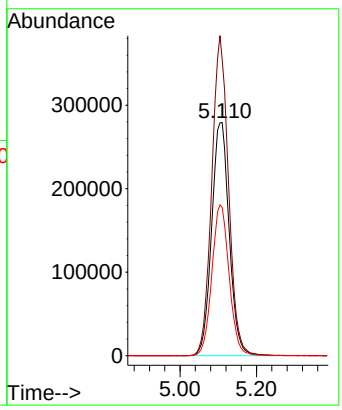





#21
trans-1,2-Dichloroethene
Concen: 152.474 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 96 Resp: 88951

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 127.0 | 104.8 | 157.2 |
| 98 | 63.5 | 50.1 | 75.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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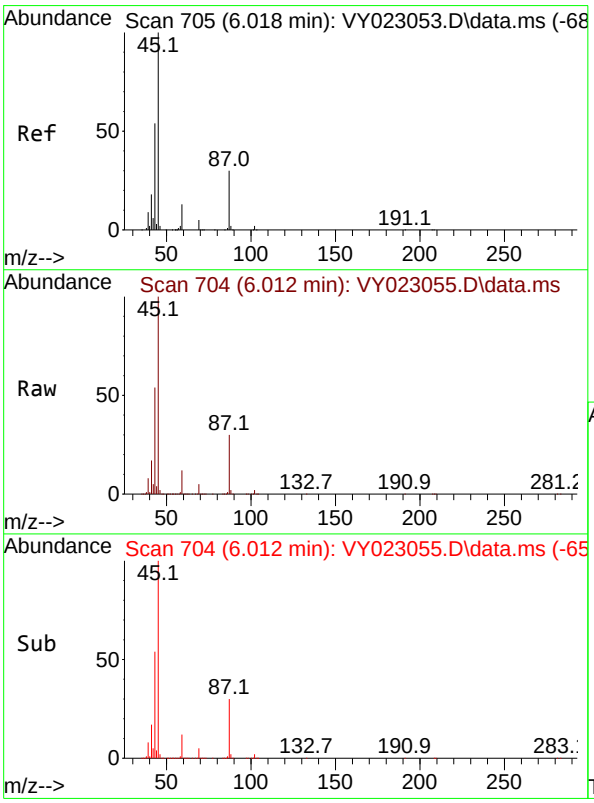
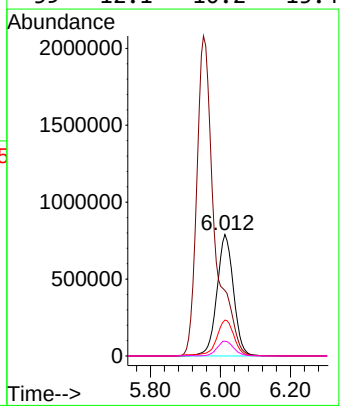
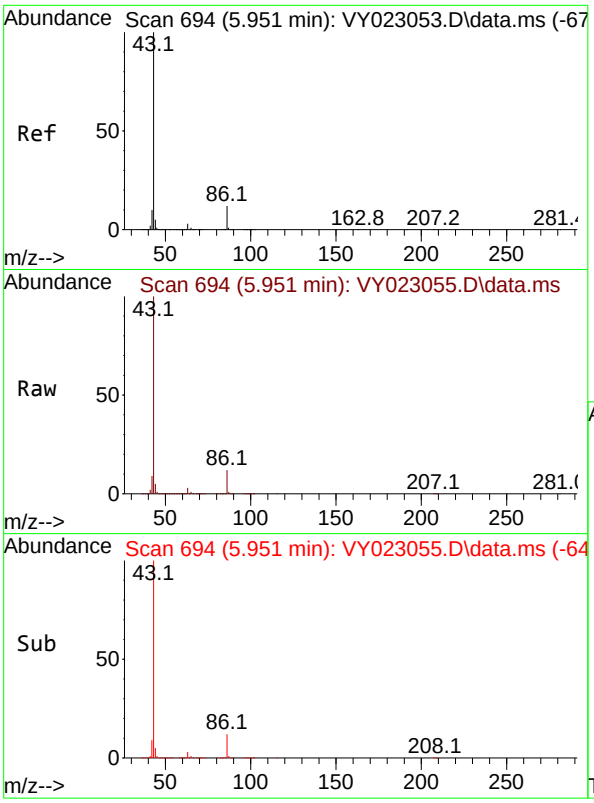



#22
Diisopropyl ether
Concen: 156.307 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 45 Resp: 2594499

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 53.8 | 43.4 | 65.0 |
| 87 | 29.5 | 24.4 | 36.6 |
| 59 | 12.1 | 10.2 | 15.4 |

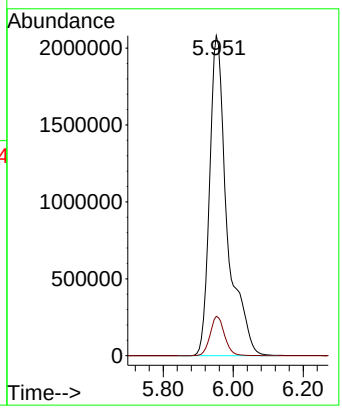





#23
Vinyl Acetate
Concen: 791.851 ug/l
RT: 5.951 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 43 Resp: 726782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 12.3 | 9.6 | 14.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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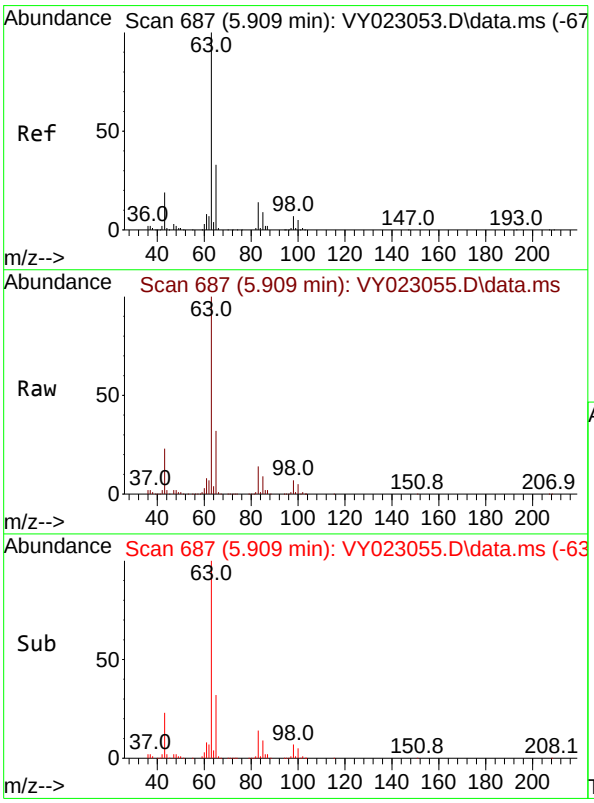
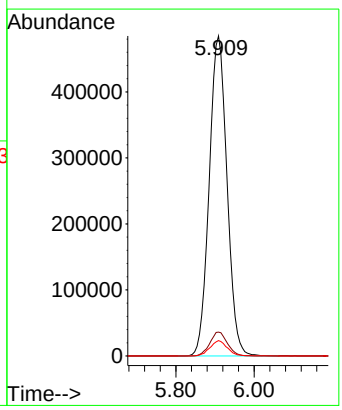
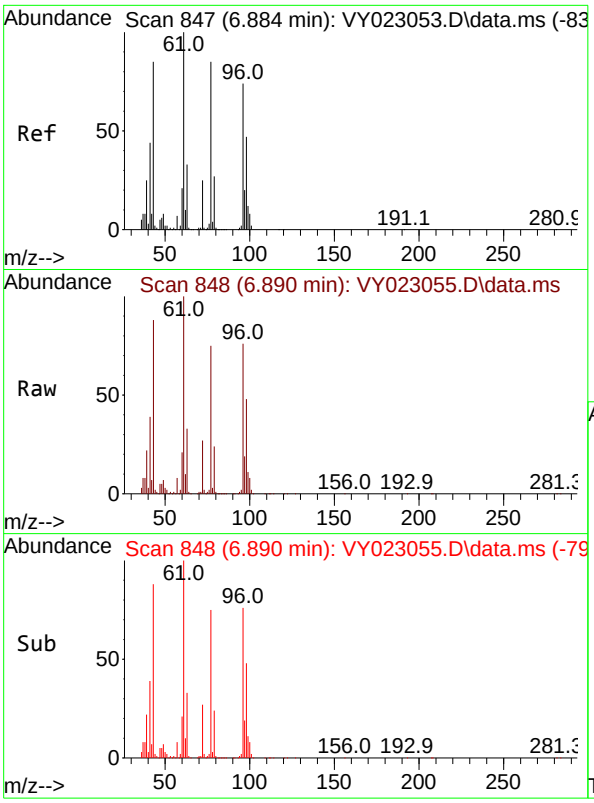



#24
1,1-Dichloroethane
Concen: 150.534 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 63 Resp: 1527663

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.4 | 3.5 | 10.6 |
| 100 | 4.8 | 2.4 | 7.1 |






#25
2-Butanone
Concen: 756.289 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 43 Resp: 114411

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 31.1 | 23.5 | 35.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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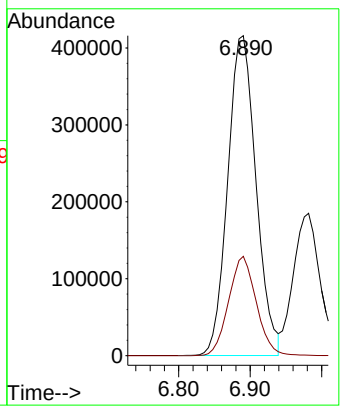
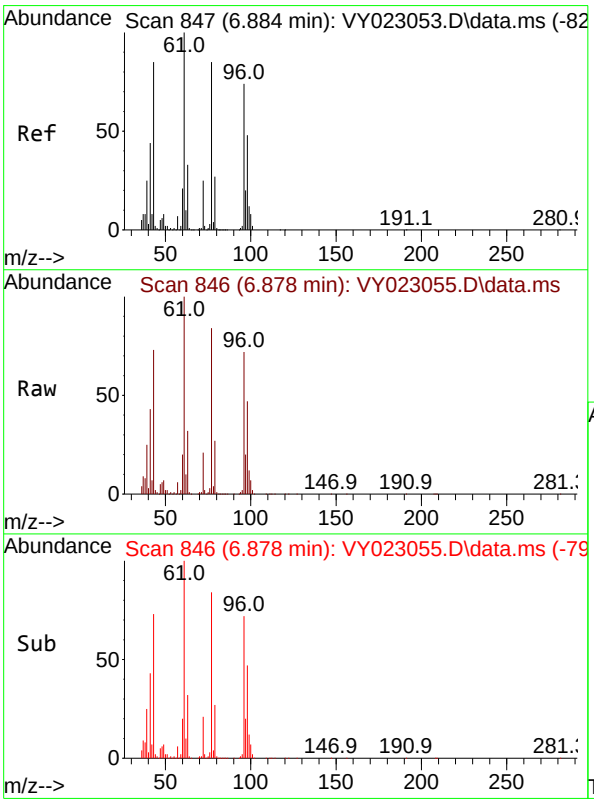
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

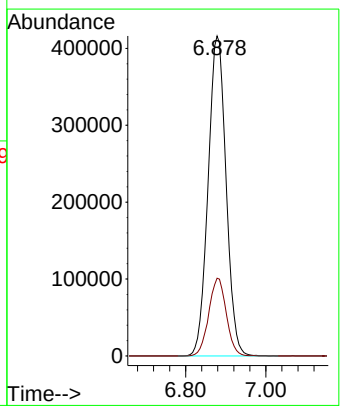


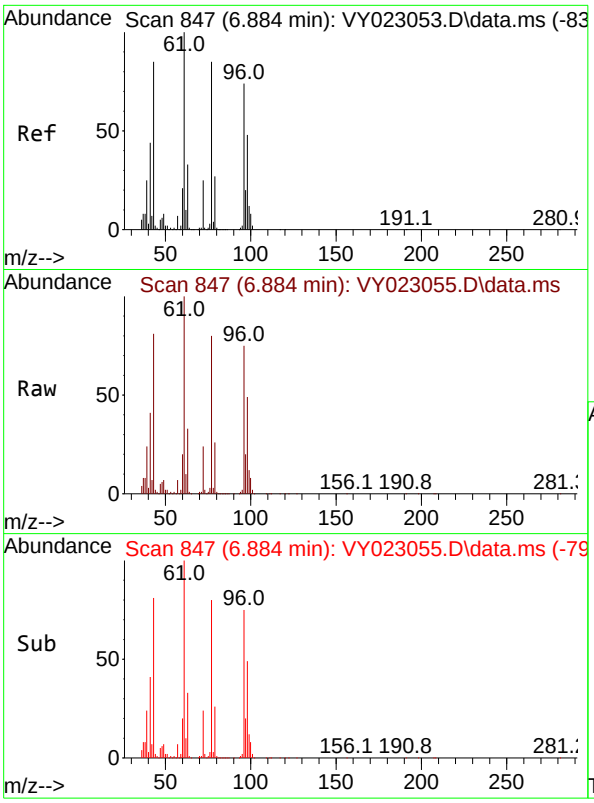




#26
2,2-Dichloropropane
Concen: 147.663 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 77 Resp: 1293043

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.8 | 11.6 | 34.8 |

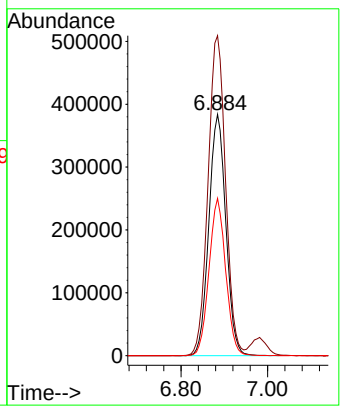





#27
cis-1,2-Dichloroethene
Concen: 155.348 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 96 Resp: 104771

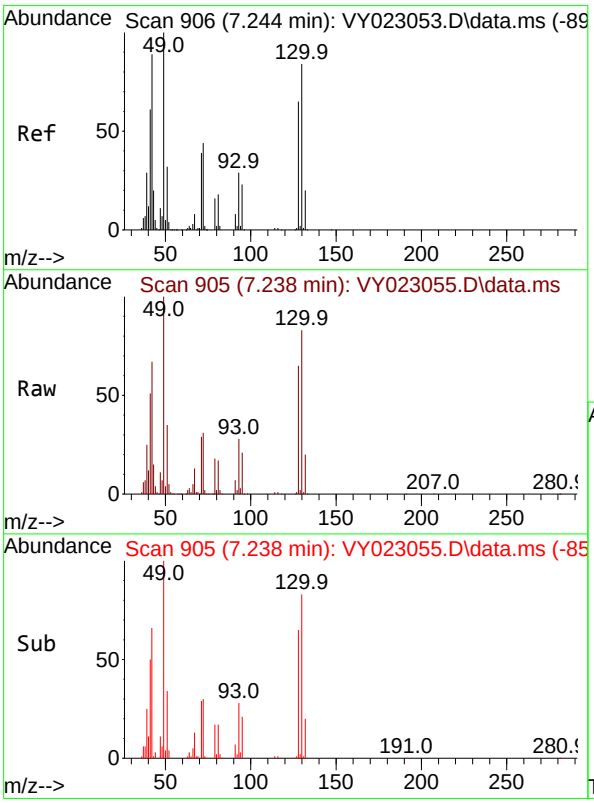
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 136.6 | 0.0 | 278.6 |
| 98 | 64.1 | 0.0 | 130.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

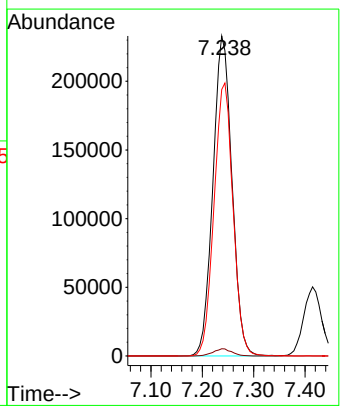
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

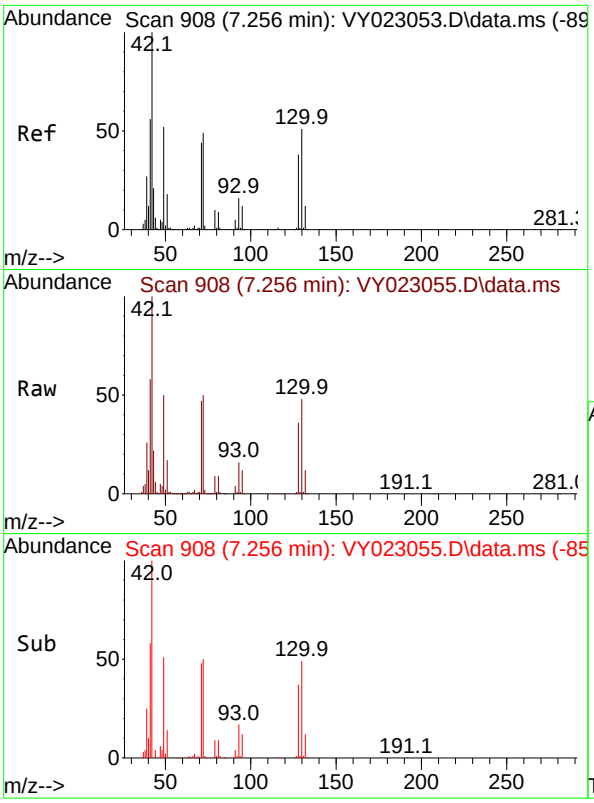



#28
Bromochloromethane
Concen: 148.984 ug/l
RT: 7.238 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 49 Resp: 599841

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.2 | 0.0 | 4.2 |
| 130 | 84.9 | 66.4 | 99.6 |

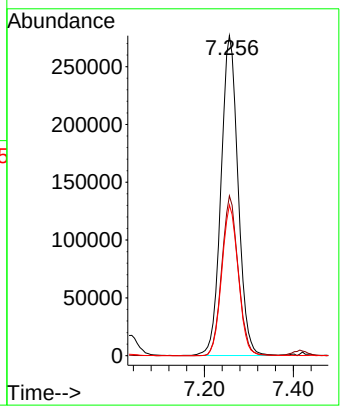





#29
Tetrahydrofuran
Concen: 783.186 ug/l
RT: 7.256 min Scan# 9(
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 42 Resp: 73440(

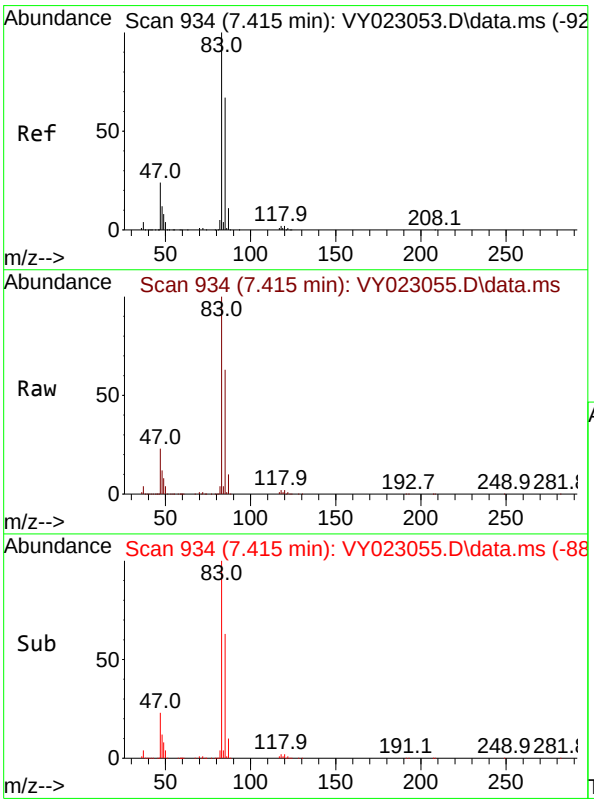
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 48.3 | 39.4 | 59.2 |
| 71 | 45.8 | 36.5 | 54.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

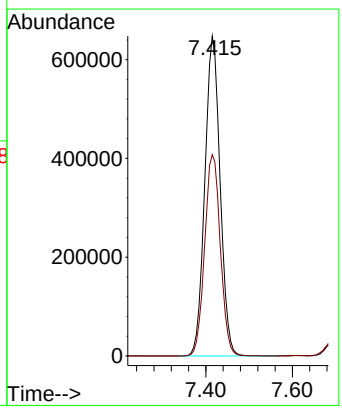
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

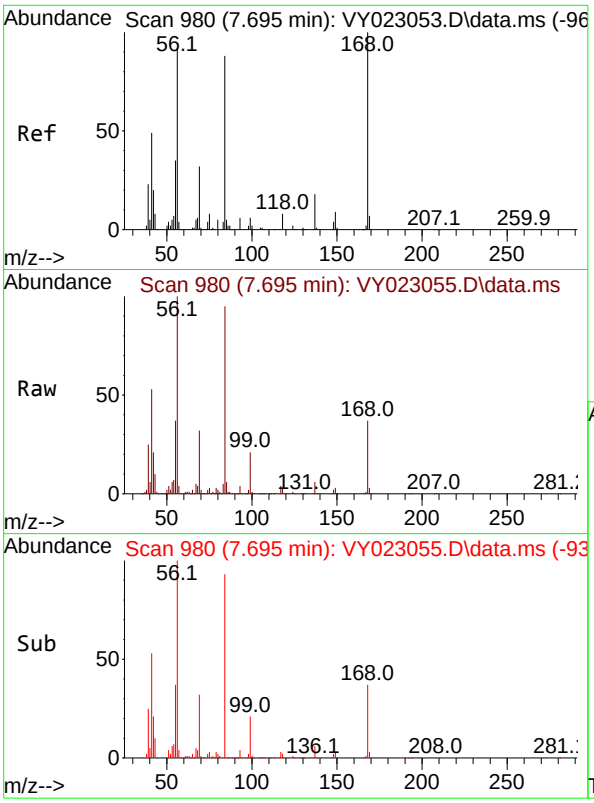



#30
Chloroform
Concen: 151.505 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 83 Resp: 1585686

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.9 | 53.8 | 80.8 |

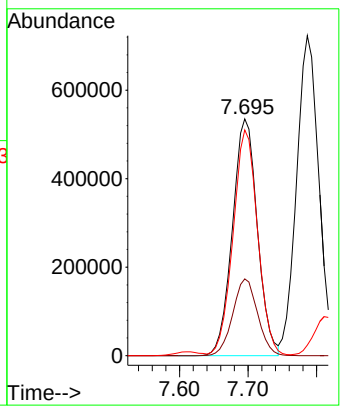





#31
Cyclohexane
Concen: 141.586 ug/l
RT: 7.695 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 56 Resp: 135402

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 32.4 | 28.2 | 42.2 |
| 84 | 94.2 | 76.6 | 114.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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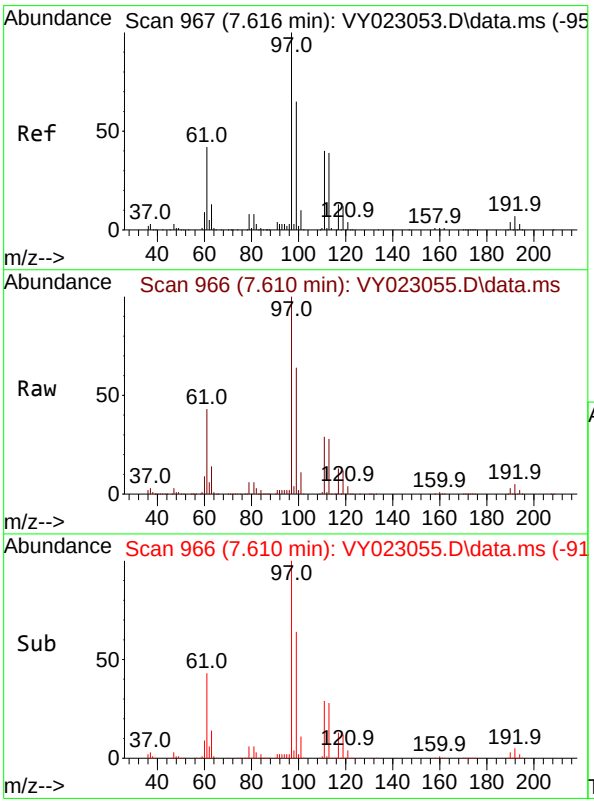
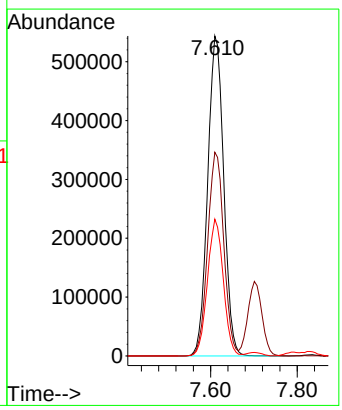
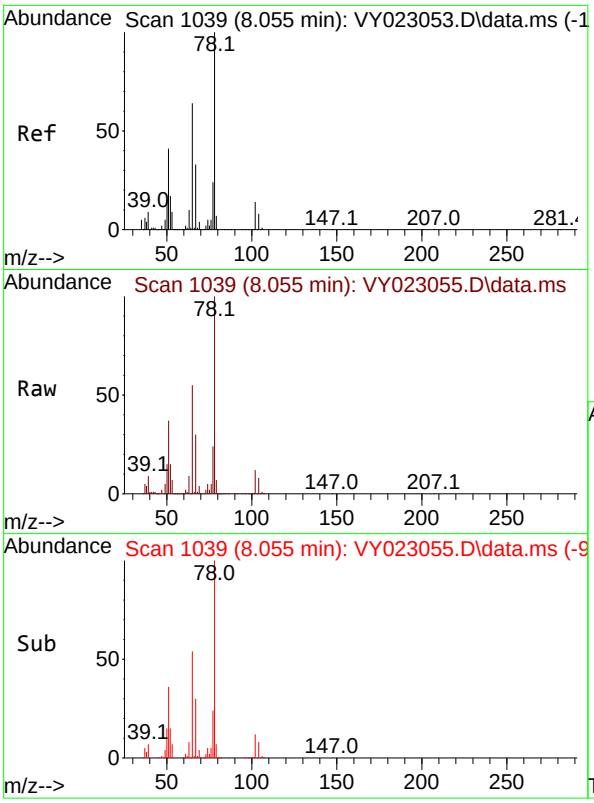



#32
1,1,1-Trichloroethane
Concen: 150.372 ug/l
RT: 7.610 min Scan# 966
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 97 Resp: 1396470

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.3 | 51.6 | 77.4 |
| 61 | 42.4 | 34.2 | 51.2 |

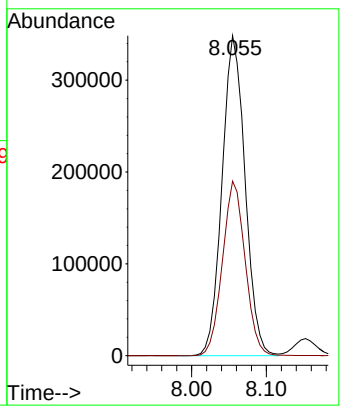





#33
1,2-Dichloroethane-d4
Concen: 145.480 ug/l
RT: 8.055 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 65 Resp: 74693

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.8 | 0.0 | 106.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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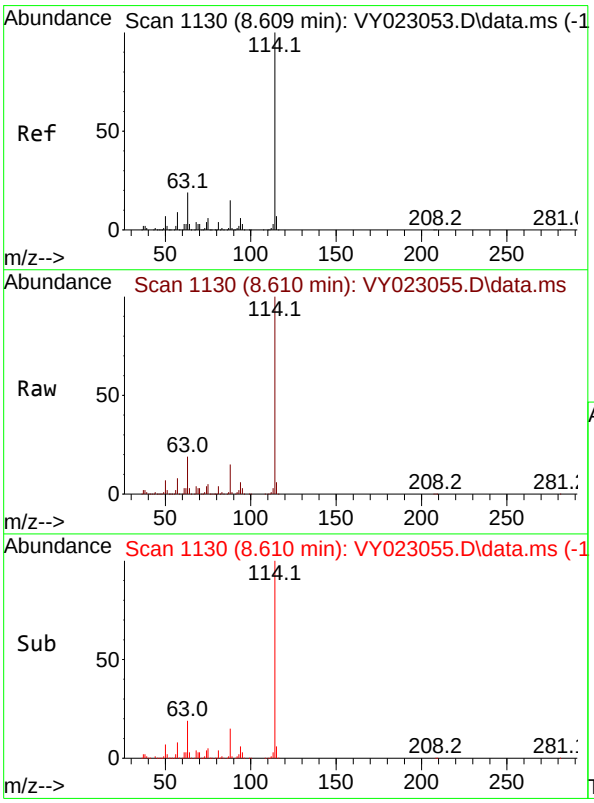
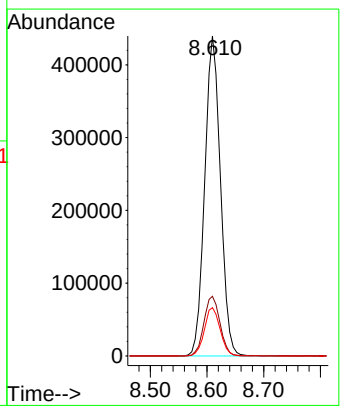
Supervised By :Semsettin Yesilyurt 08/14/2025

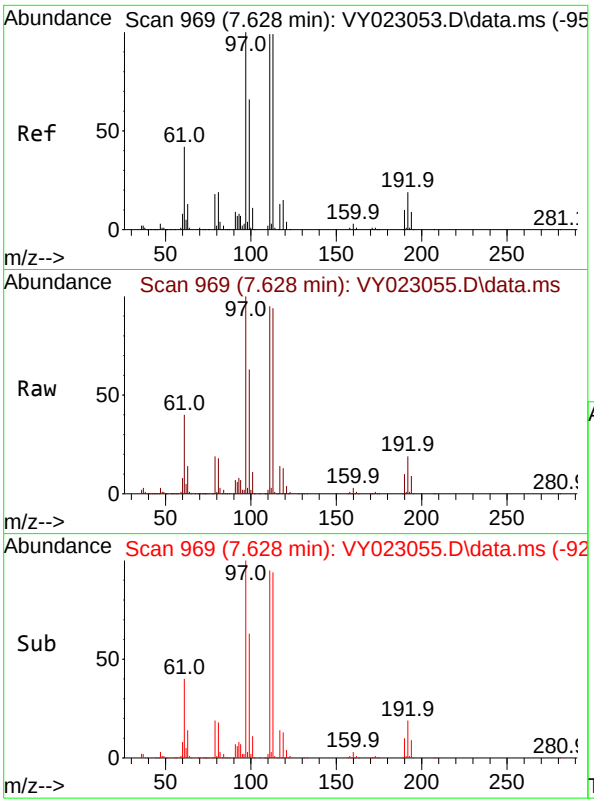



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:114 Resp: 844092

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.7 | 0.0 | 38.4 |
| 88 | 15.1 | 0.0 | 30.0 |

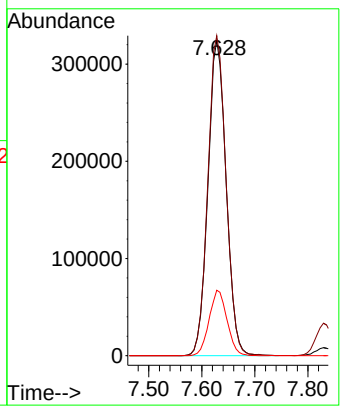





#35
Dibromofluoromethane
Concen: 152.837 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:113 Resp: 771944

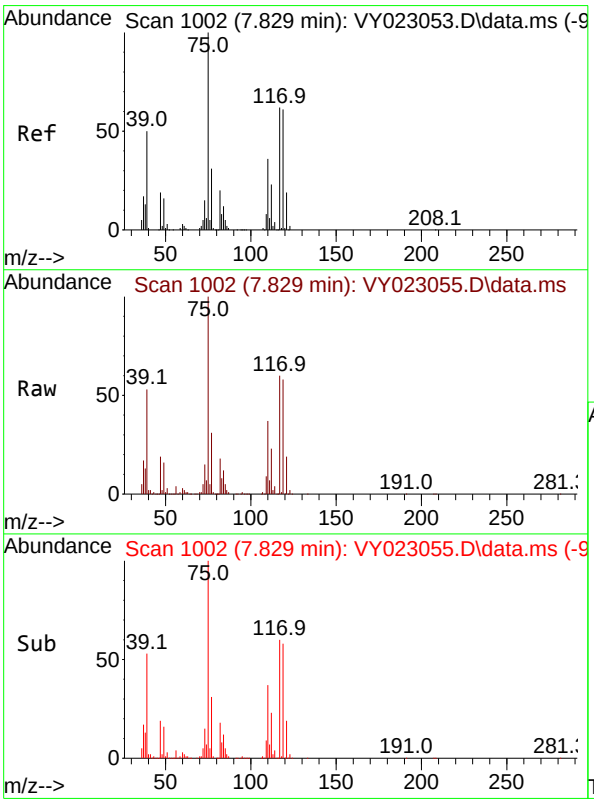
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.8 | 81.1 | 121.7 |
| 192 | 20.4 | 16.2 | 24.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

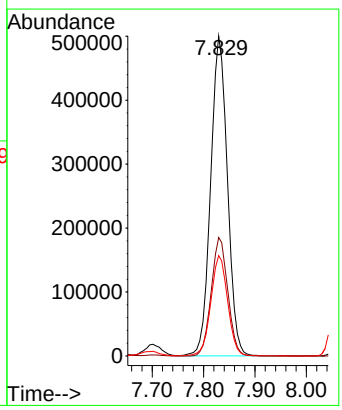
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

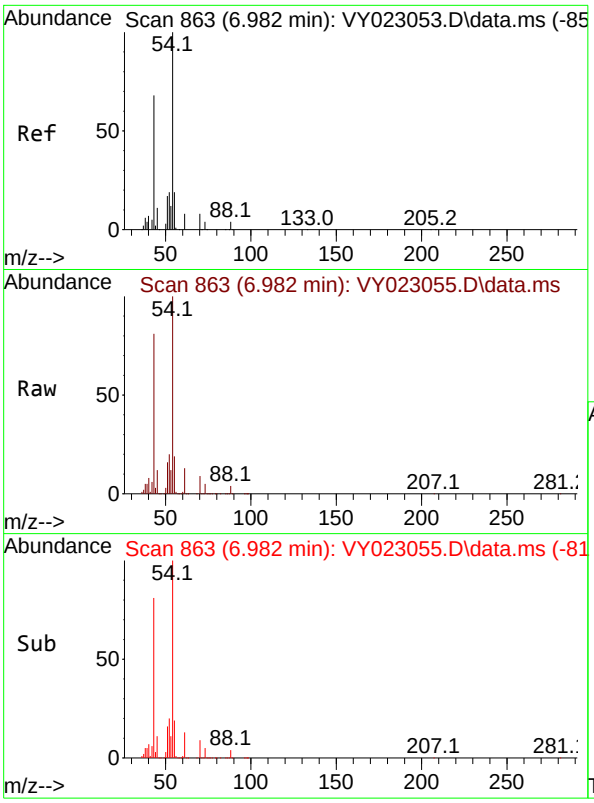



#36
1,1-Dichloropropene
Concen: 150.850 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 75 Resp: 1132306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 36.5 | 18.1 | 54.4 |
| 77 | 31.5 | 24.6 | 37.0 |






#37
Ethyl Acetate
Concen: 156.788 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 43 Resp: 49437

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 15.1 | 11.9 | 17.9 |
| 70 | 11.4 | 8.8 | 13.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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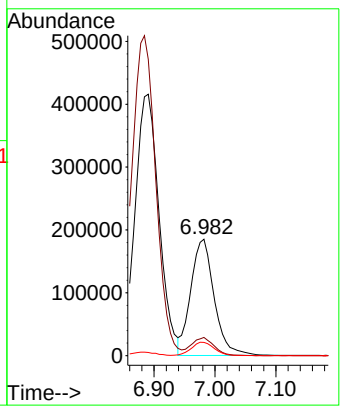
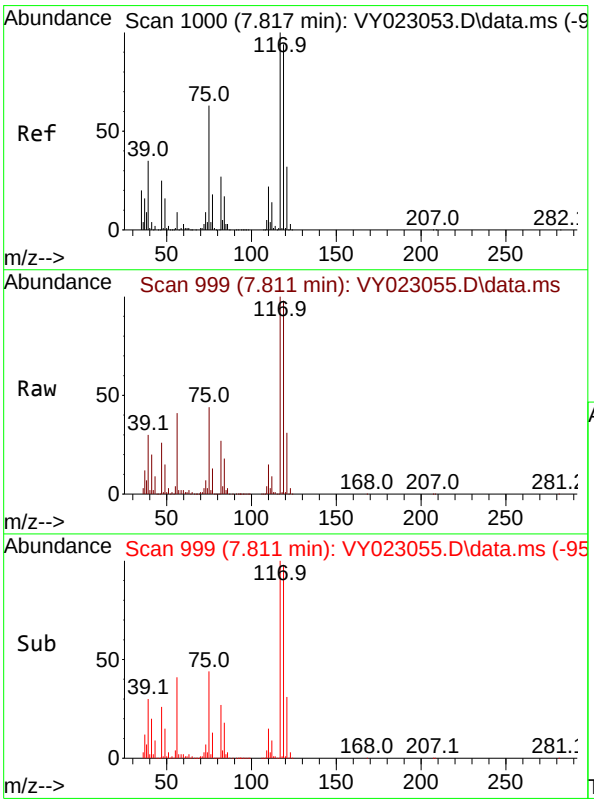
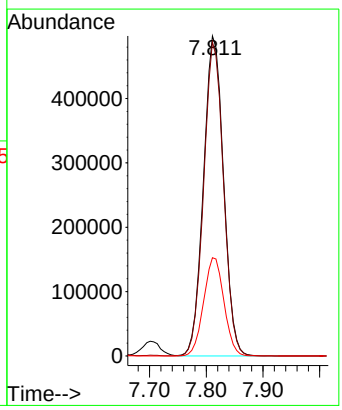


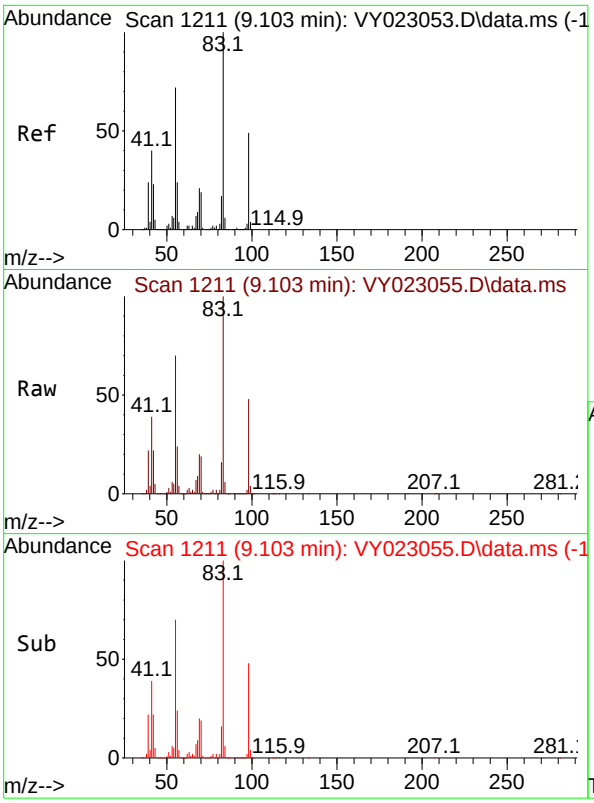




#38
Carbon Tetrachloride
Concen: 150.478 ug/l
RT: 7.811 min Scan# 999
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:117 Resp: 1226800

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 98.1 | 75.6 | 113.4 |
| 121 | 30.7 | 25.8 | 38.8 |

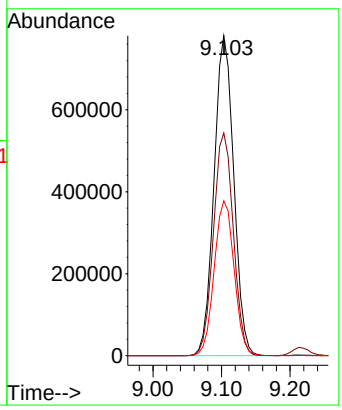





#39
Methylcyclohexane
Concen: 157.417 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 83 Resp: 155600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 69.6 | 57.6 | 86.4 |
| 98 | 48.4 | 39.2 | 58.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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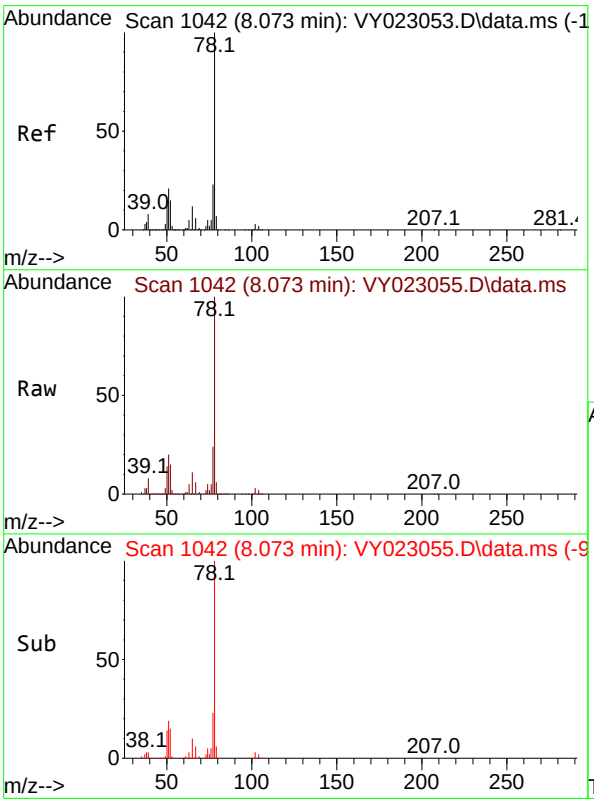
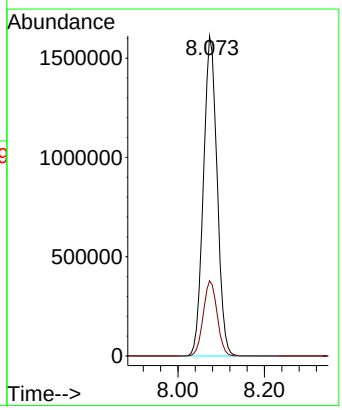
Supervised By :Semsettin Yesilyurt 08/14/2025

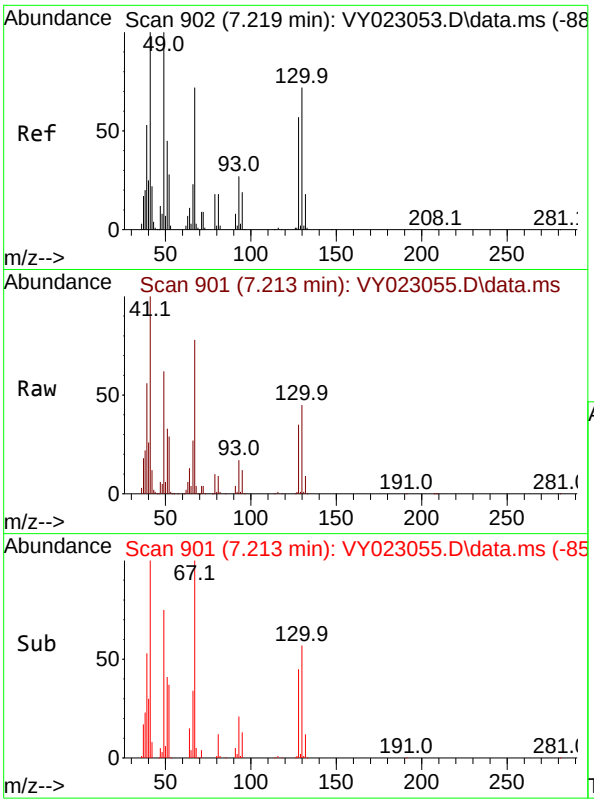



#40
Benzene
Concen: 152.720 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 78 Resp: 3533174

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.5 | 18.6 | 28.0 |

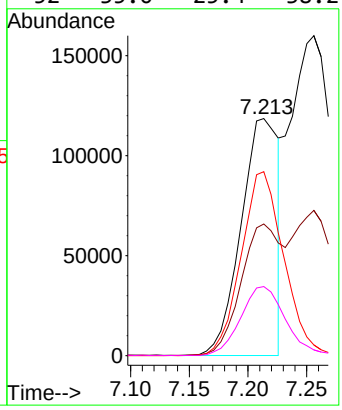





#41
Methacrylonitrile
Concen: 143.669 ug/l
RT: 7.213 min Scan# 9(
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 41 Resp: 26172

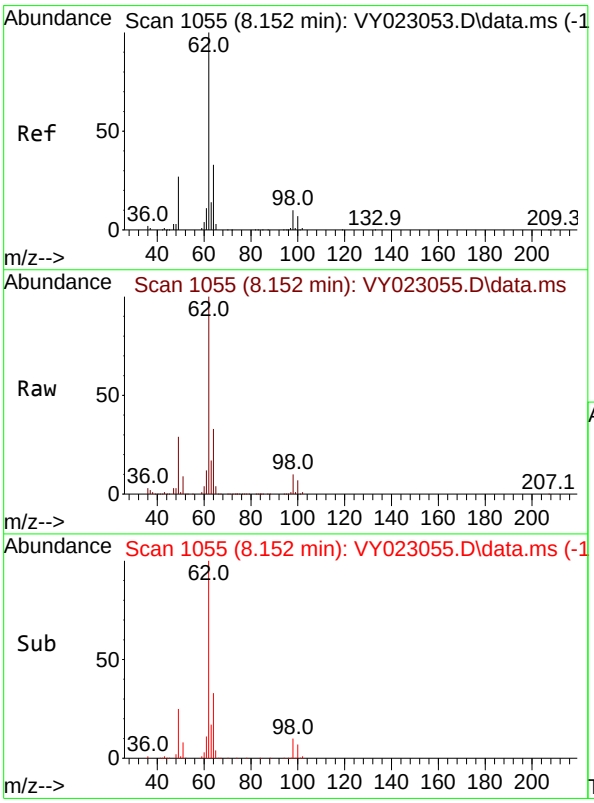
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 62.2 | 43.4 | 65.2 |
| 67 | 89.0 | 63.6 | 95.4 |
| 52 | 35.0 | 25.4 | 38.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

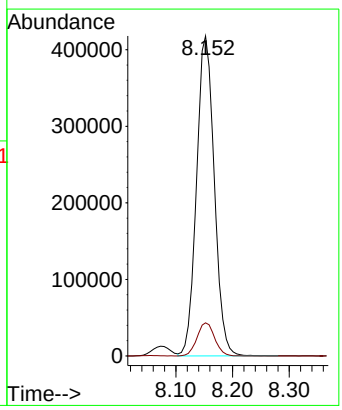
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

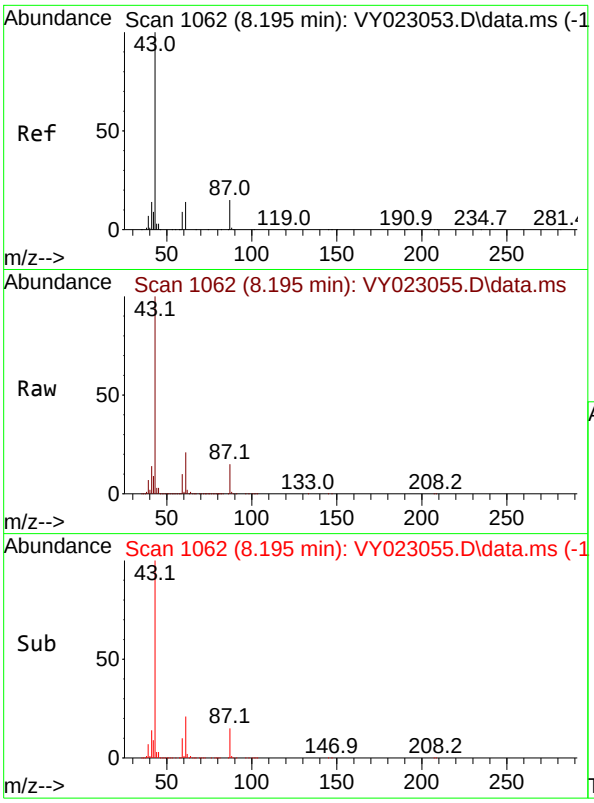



#42
1,2-Dichloroethane
Concen: 151.078 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 62 Resp: 909030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.3 | 0.0 | 20.6 |

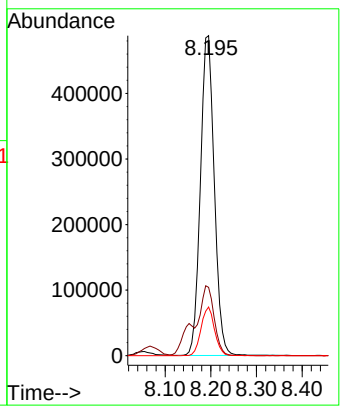





#43
Isopropyl Acetate
Concen: 161.596 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 43 Resp: 102985

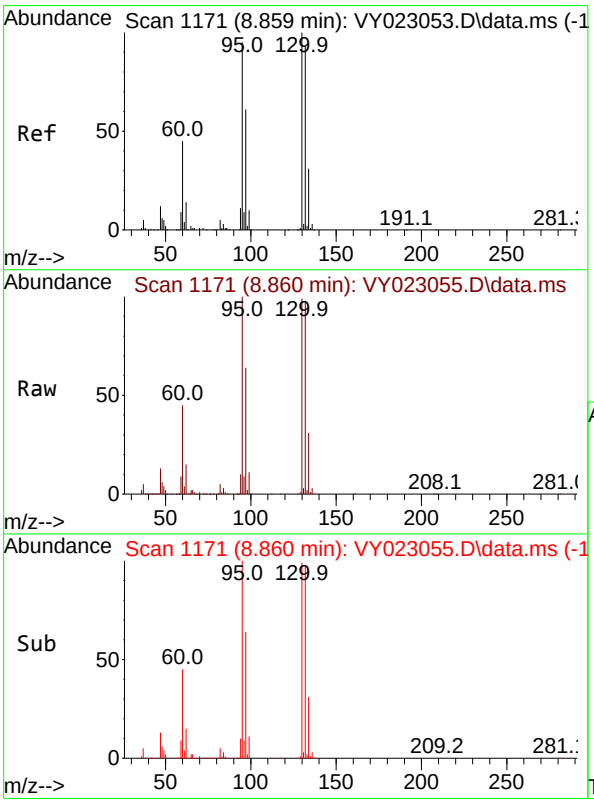
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 22.1 | 16.4 | 24.6 |
| 87 | 14.8 | 11.8 | 17.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

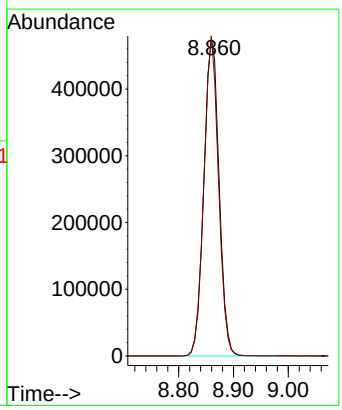
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

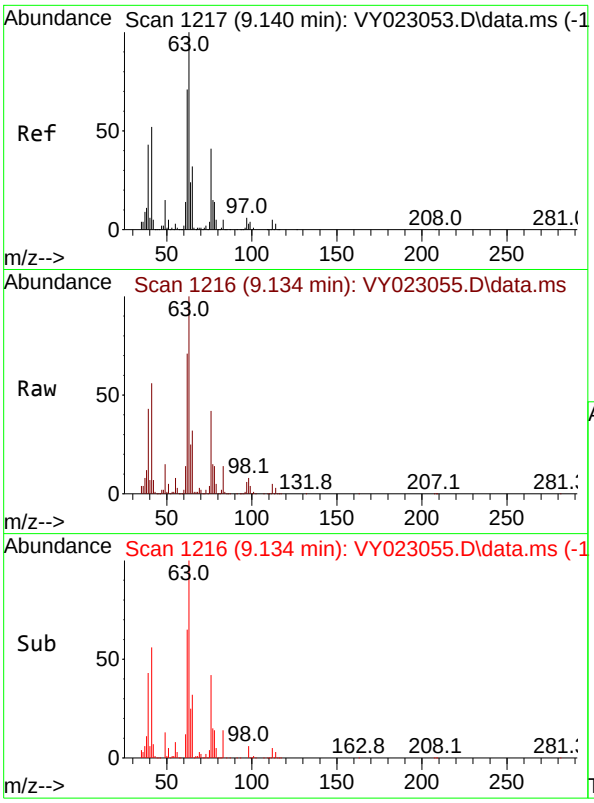



#44
Trichloroethene
Concen: 152.126 ug/l
RT: 8.860 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:130 Resp: 909510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 101.0 | 0.0 | 190.2 |

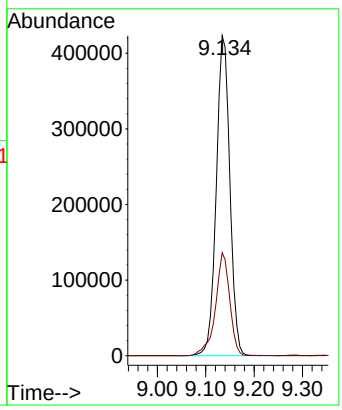





#45
1,2-Dichloropropane
Concen: 154.426 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 63 Resp: 82203

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 32.1 | 25.3 | 37.9 |




**Instrument :**
MSVOA_Y
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VSTDICC150

**Manual Integrations**
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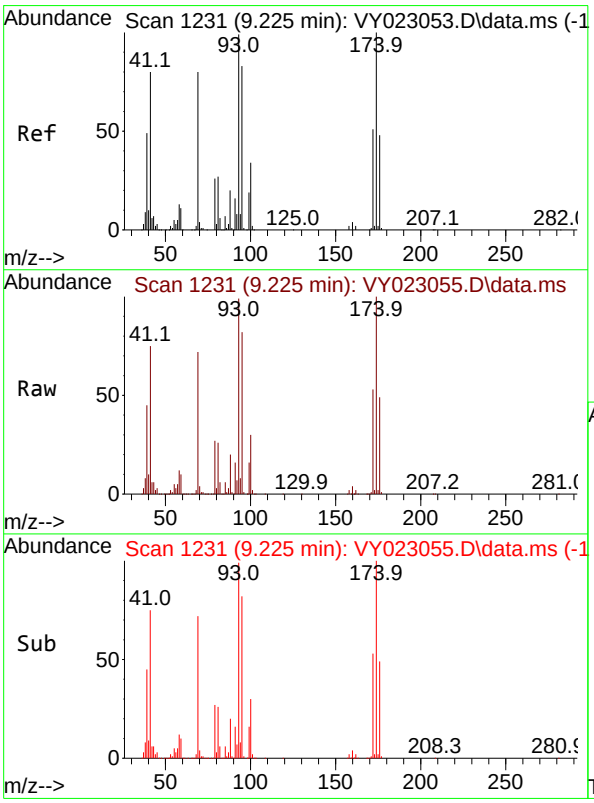
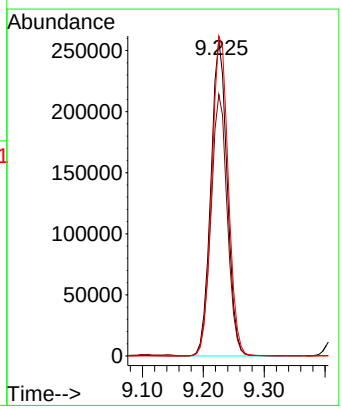
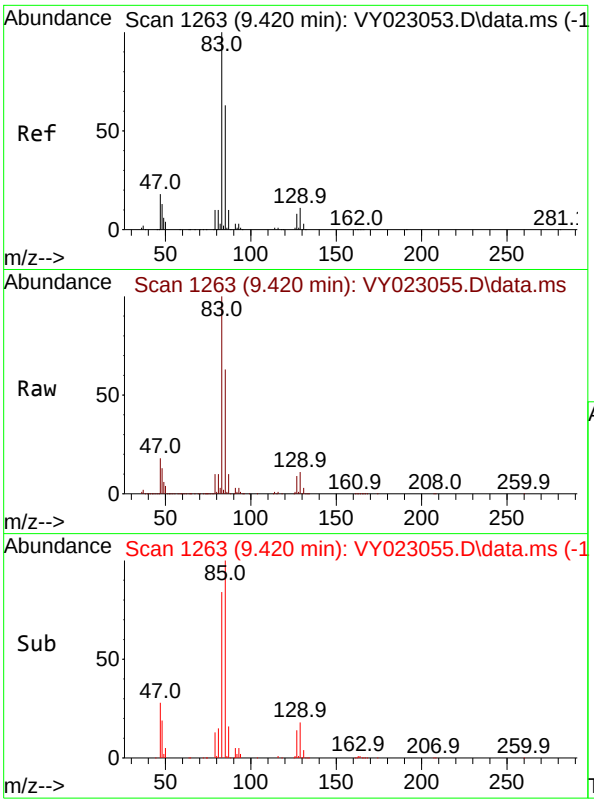



#46
Dibromomethane
Concen: 157.156 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 93 Resp: 480162

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.8 | 66.5 | 99.7 |
| 174 | 102.6 | 81.8 | 122.8 |

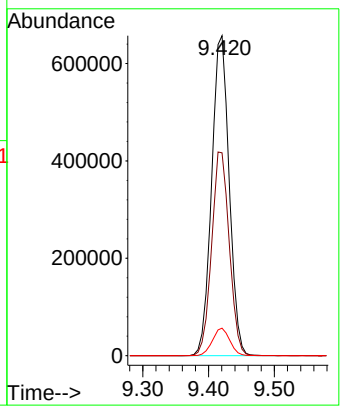





#47
Bromodichloromethane
Concen: 154.884 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 83 Resp: 121765

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.4 | 50.2 | 75.4 |
| 127 | 8.6 | 6.6 | 10.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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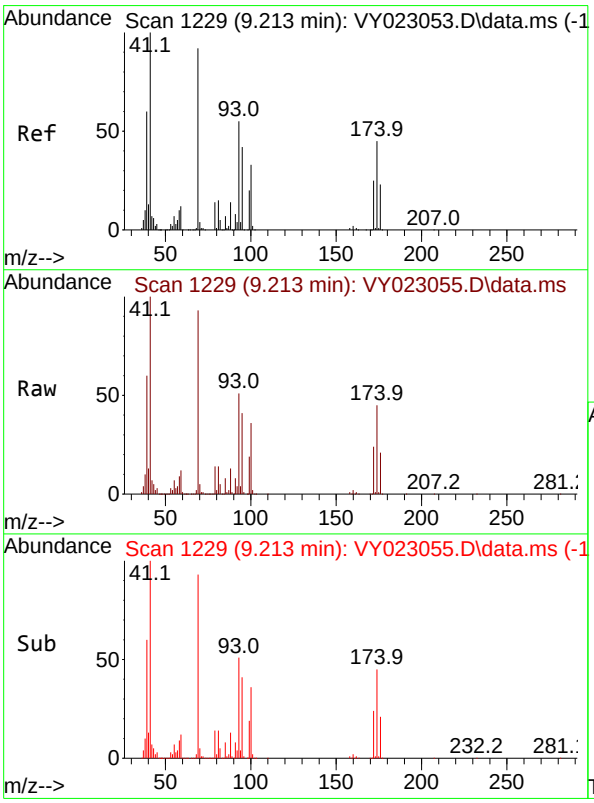
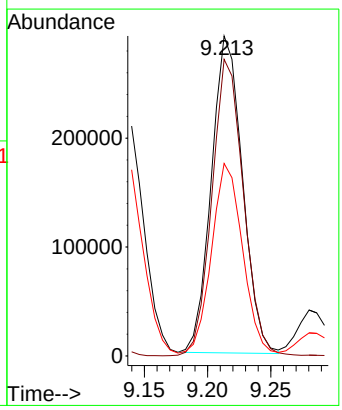
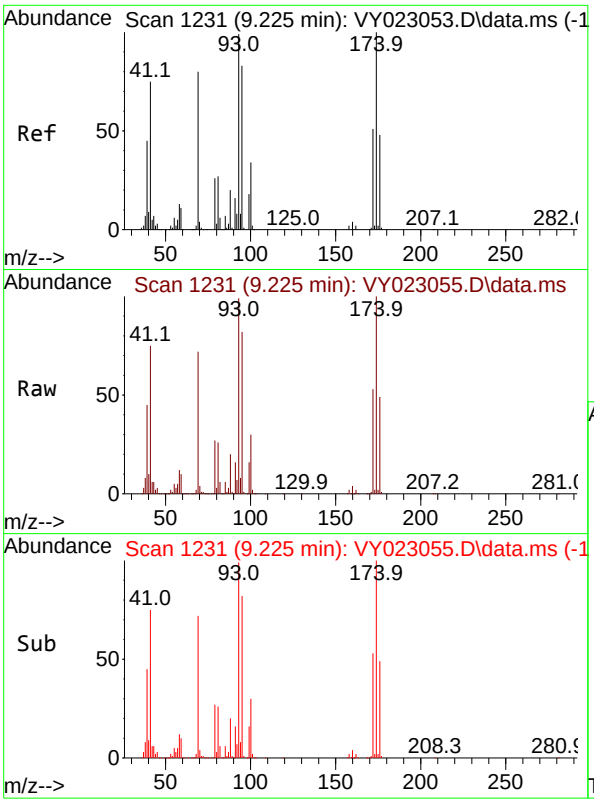



#48
Methyl methacrylate
Concen: 163.144 ug/l
RT: 9.213 min Scan# 1229
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 41 Resp: 497527

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 95.0 | 73.2 | 109.8 |
| 39 | 59.3 | 47.0 | 70.4 |






#49
1,4-Dioxane
Concen: 3280.235 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 88 Resp: 11751

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 30.0 | 24.3 | 36.5 |
| 58 | 67.5 | 55.4 | 83.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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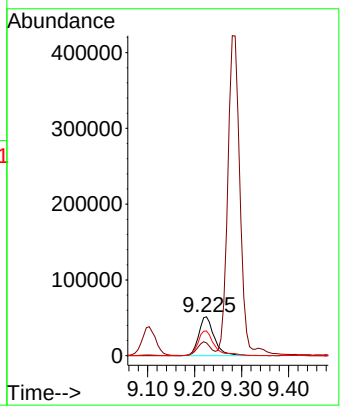
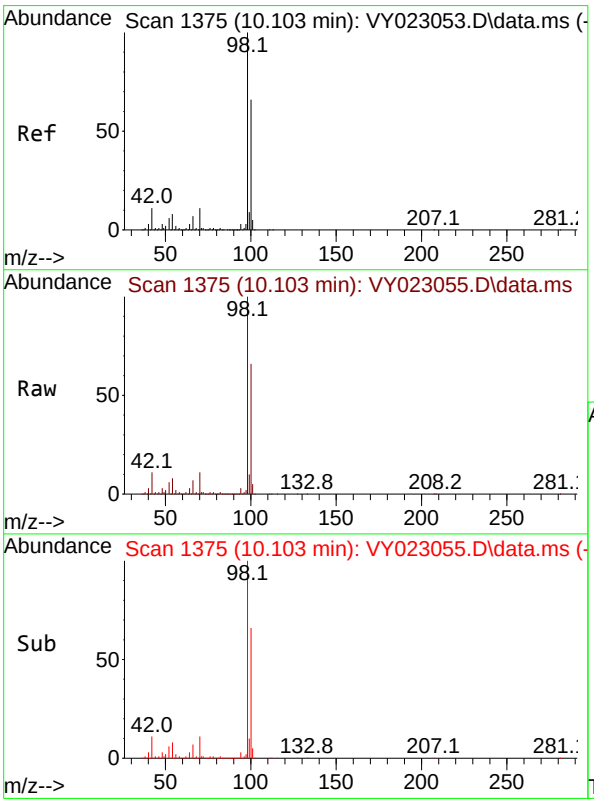
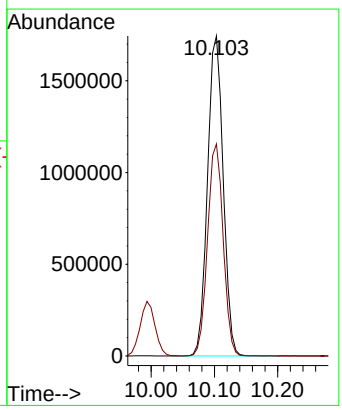


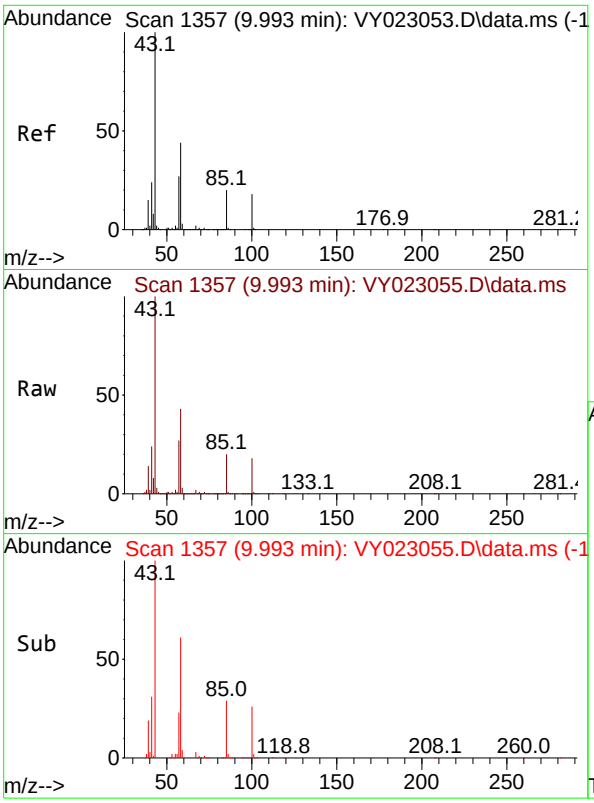




#50
Toluene-d8
Concen: 152.237 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 98 Resp: 3003834

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.0 | 52.3 | 78.5 |

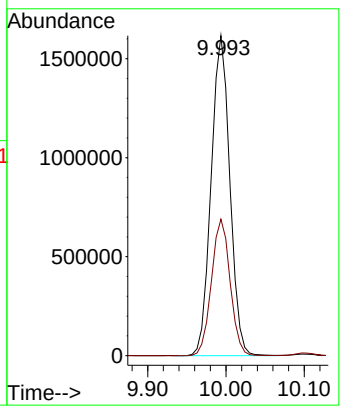





#51
4-Methyl-2-Pentanone
Concen: 814.509 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 43 Resp: 267758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 42.6 | 33.5 | 50.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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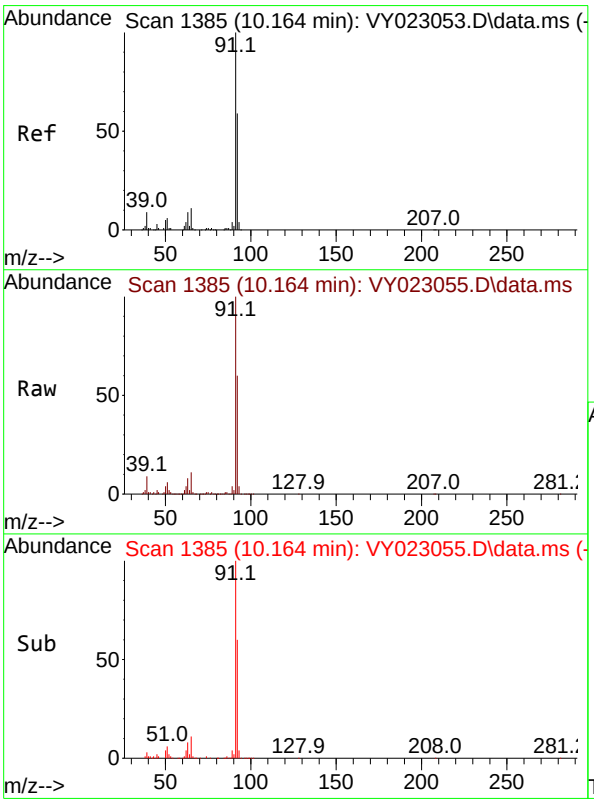
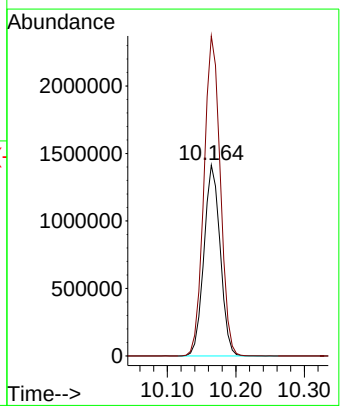
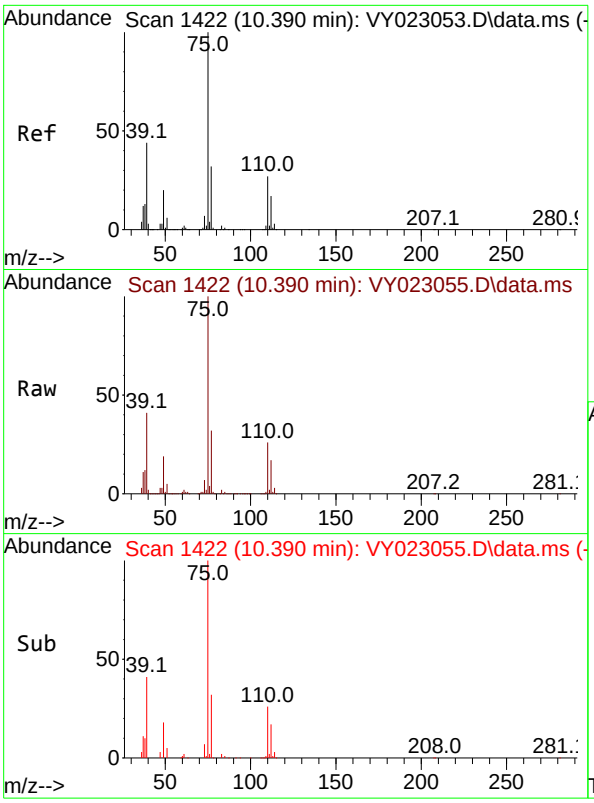



#52
Toluene
Concen: 158.762 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 92 Resp: 2332797

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 168.8 | 136.4 | 204.6 |

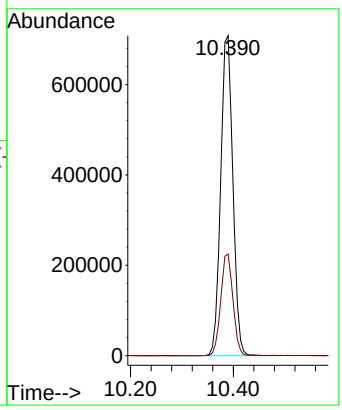





#53
t-1,3-Dichloropropene
Concen: 163.355 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 75 Resp: 116295

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.8 | 25.7 | 38.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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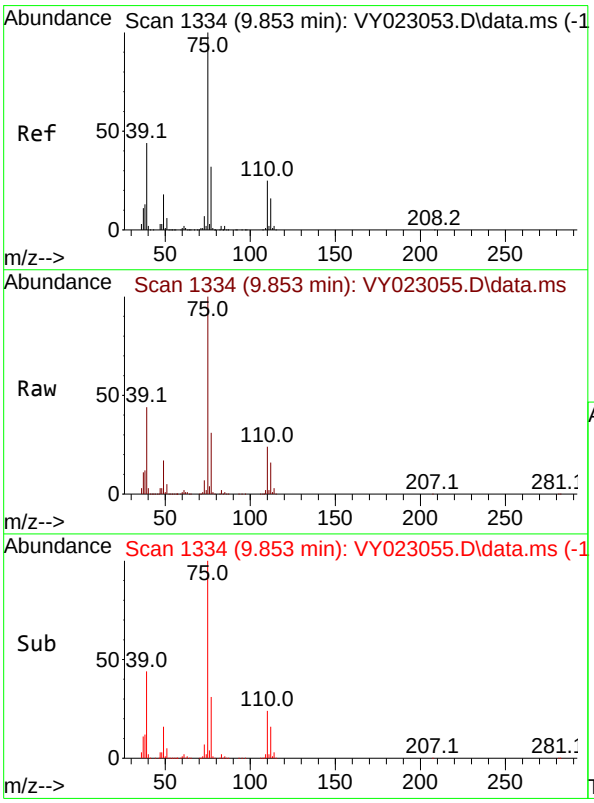
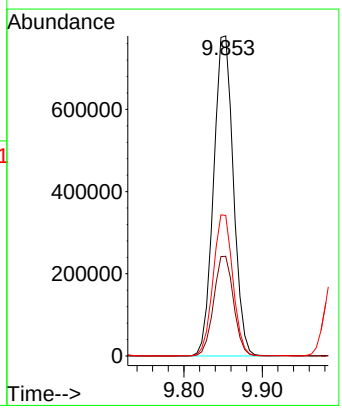
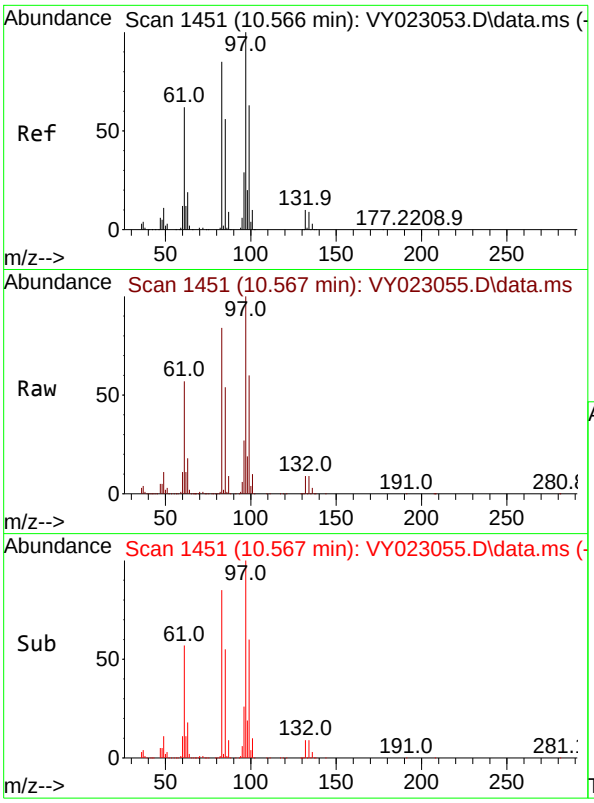



#54
cis-1,3-Dichloropropene
Concen: 162.359 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 75 Resp: 1366797

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.1 | 25.4 | 38.0 |
| 39 | 43.9 | 35.6 | 53.4 |

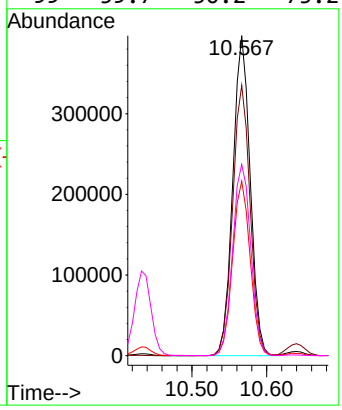





#55
1,1,2-Trichloroethane
Concen: 157.090 ug/l
RT: 10.567 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 97 Resp: 64223

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 84.5 | 67.7 | 101.5 |
| 85 | 54.5 | 44.5 | 66.7 |
| 99 | 59.7 | 50.2 | 75.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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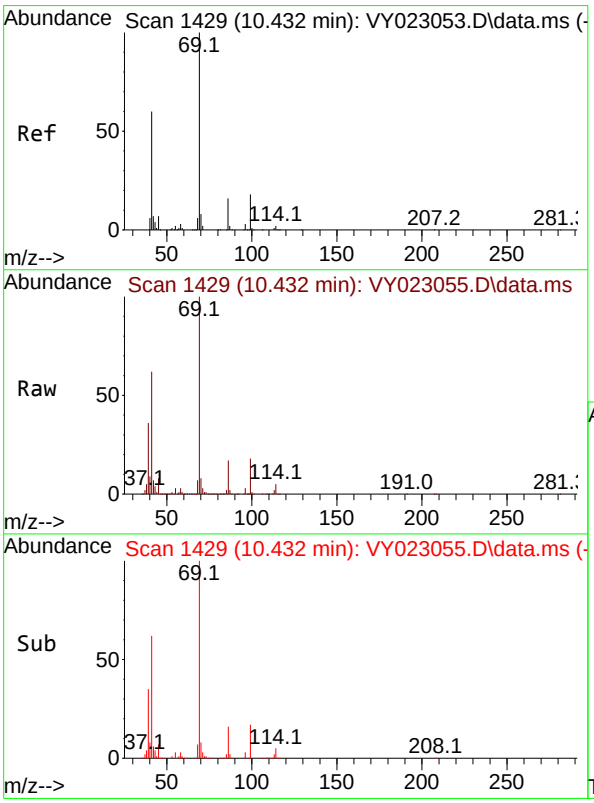
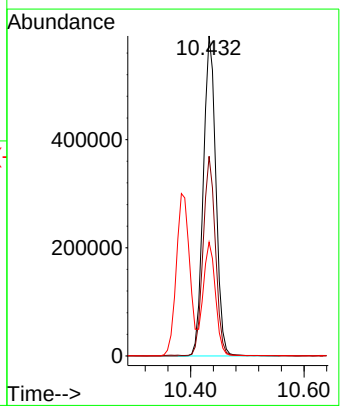
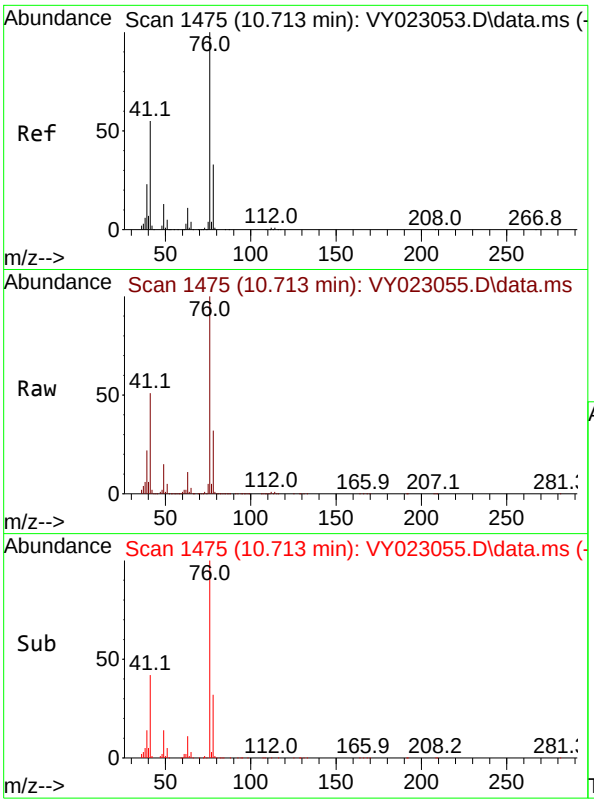



#56
Ethyl methacrylate
Concen: 173.693 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 69 Resp: 908662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 60.9 | 48.6 | 72.8 |
| 39 | 33.4 | 27.0 | 40.4 |

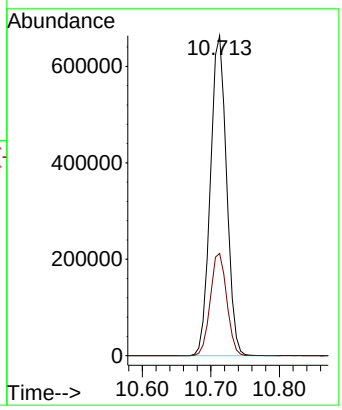





#57
1,3-Dichloropropane
Concen: 156.818 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 76 Resp: 108729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.5 | 26.0 | 39.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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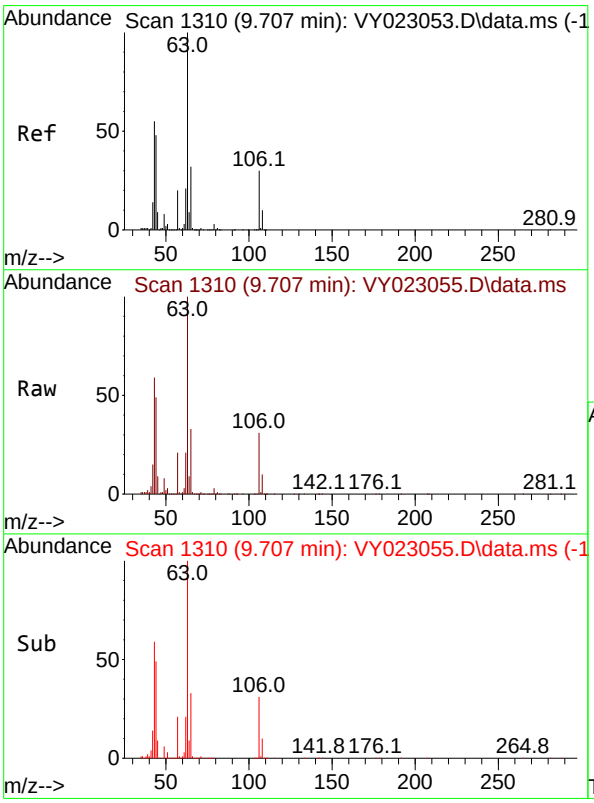
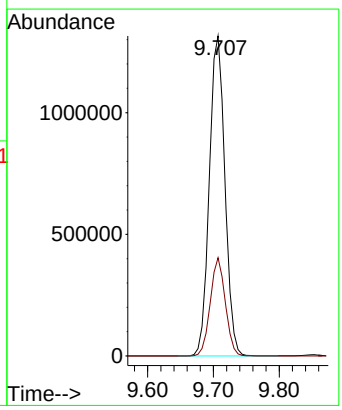
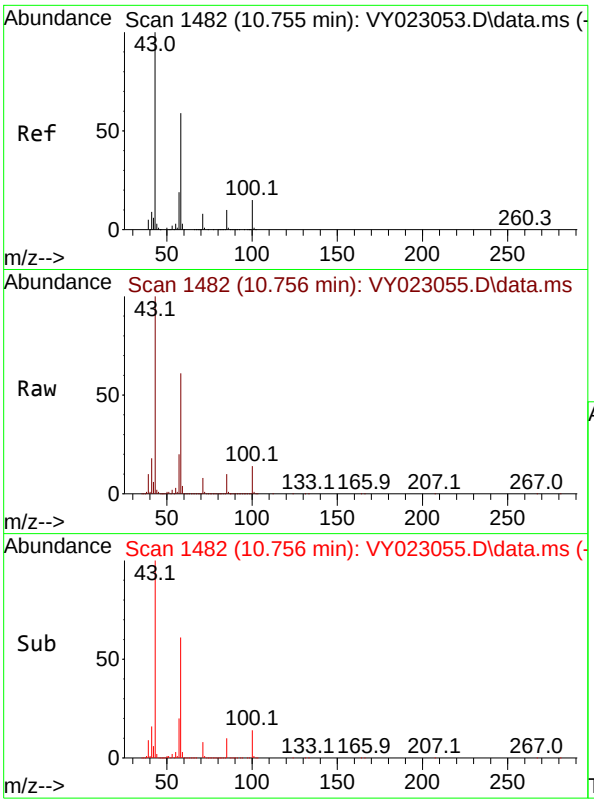



#58
2-Chloroethyl Vinyl ether
Concen: 878.488 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 63 Resp: 2167815

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 29.6 | 23.2 | 34.8 |






#59
2-Hexanone
Concen: 825.606 ug/l
RT: 10.756 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 43 Resp: 184809

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 59.3 | 29.5 | 88.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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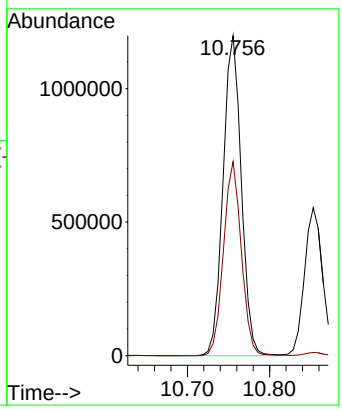
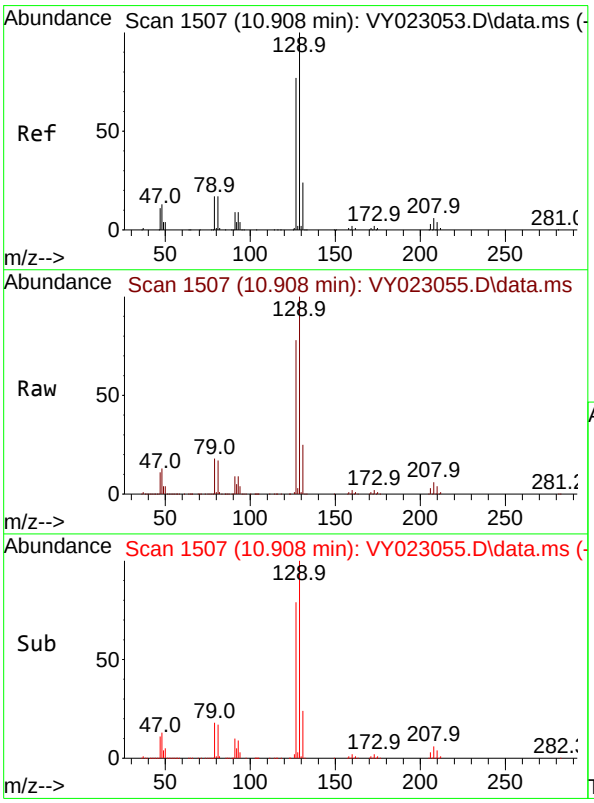
Supervised By :Semsettin Yesilyurt 08/14/2025

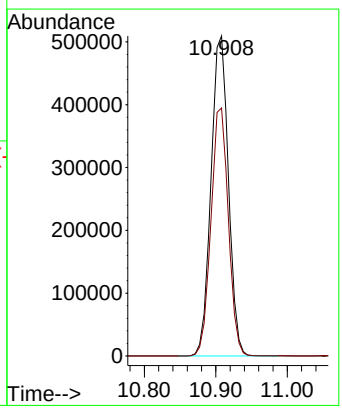


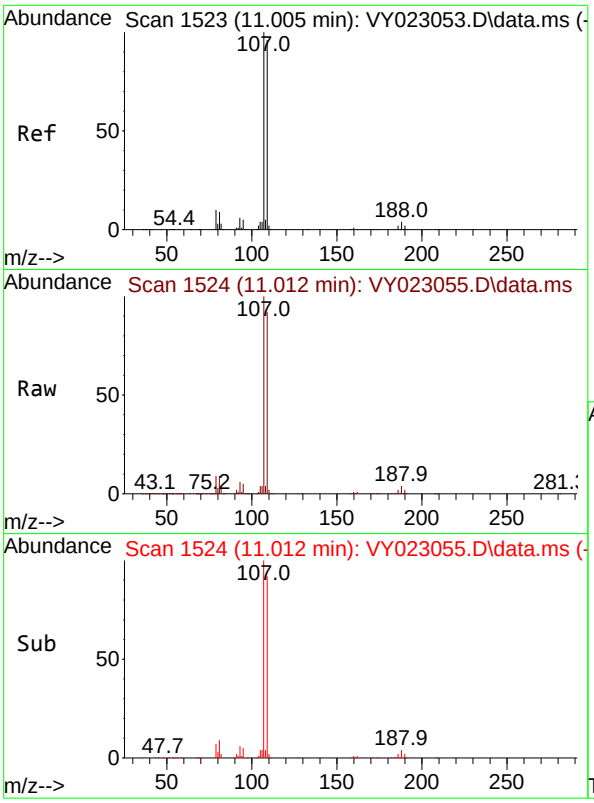




#60
Dibromochloromethane
Concen: 159.454 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:129 Resp: 860181

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.5 | 38.5 | 115.5 |






#61
1,2-Dibromoethane
Concen: 159.546 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

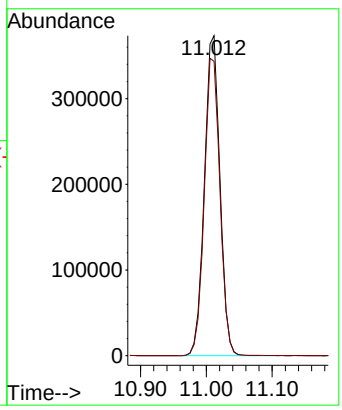
Tgt Ion:107 Resp: 61306

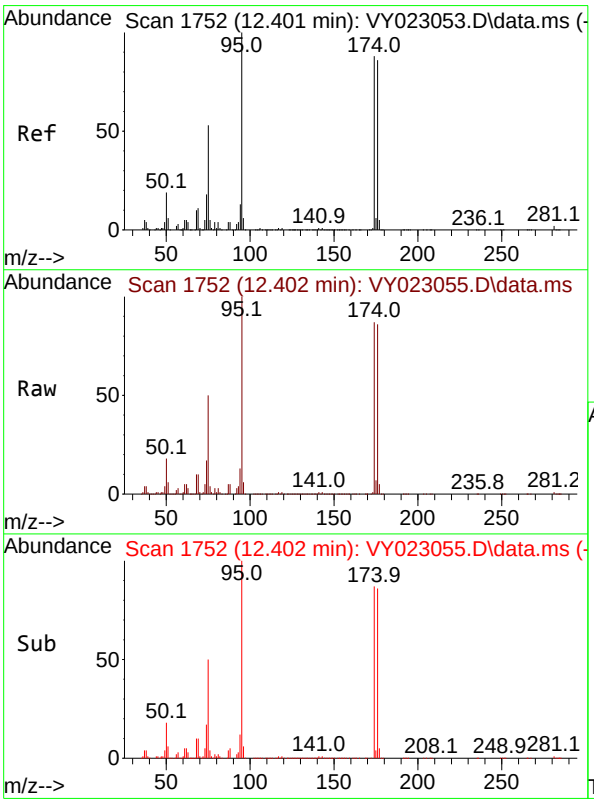
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.9 | 75.6 | 113.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

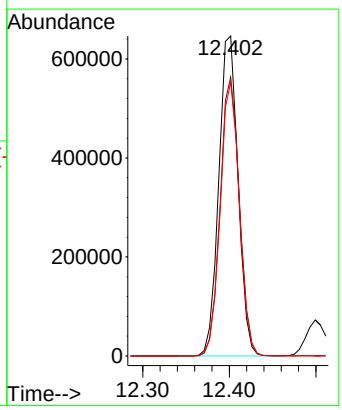


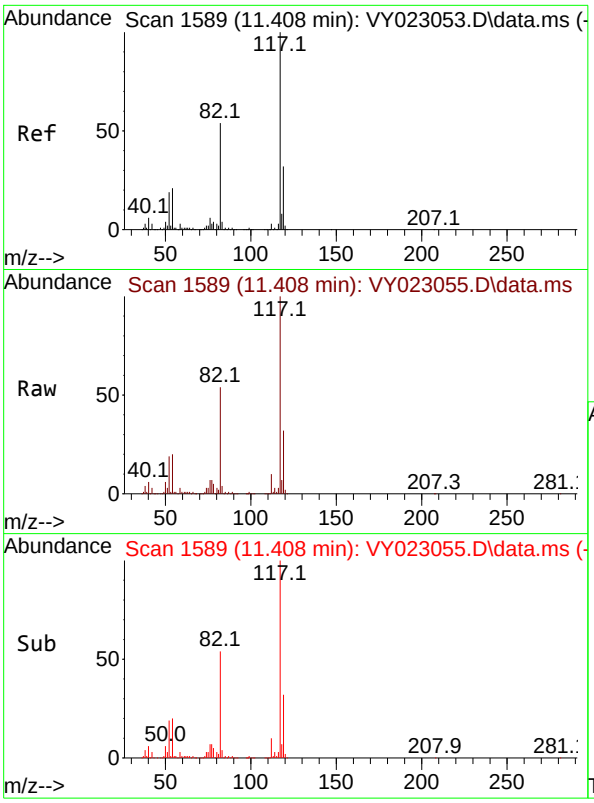




#62
4-Bromofluorobenzene
Concen: 157.326 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 95 Resp: 998318

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 86.9 | 0.0 | 171.6 |
| 176 | 84.6 | 0.0 | 167.6 |

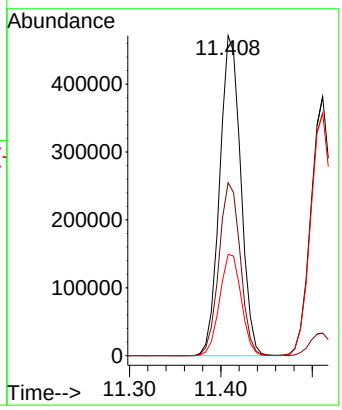





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:117 Resp: 75636

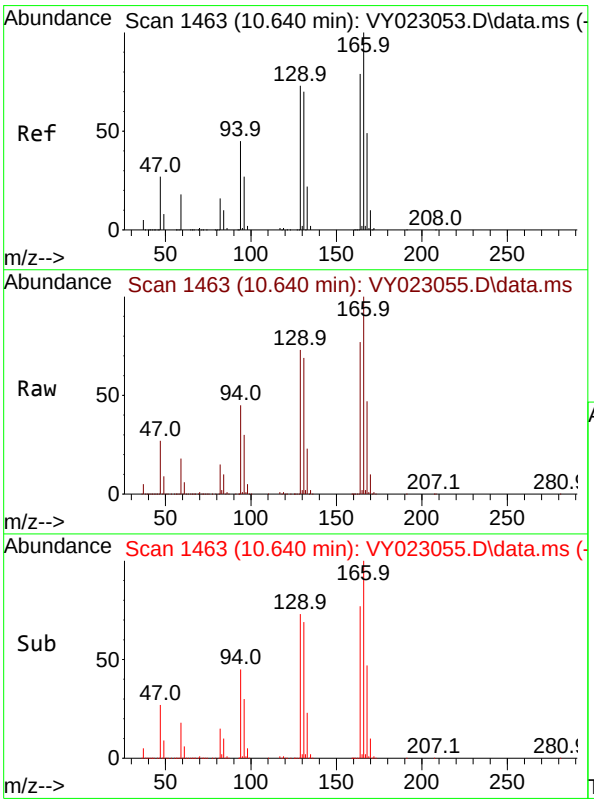
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.0 | 43.4 | 65.0 |
| 119 | 31.7 | 25.6 | 38.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

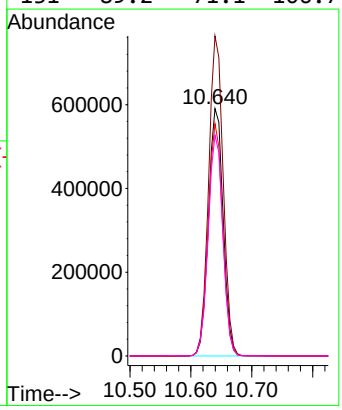
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

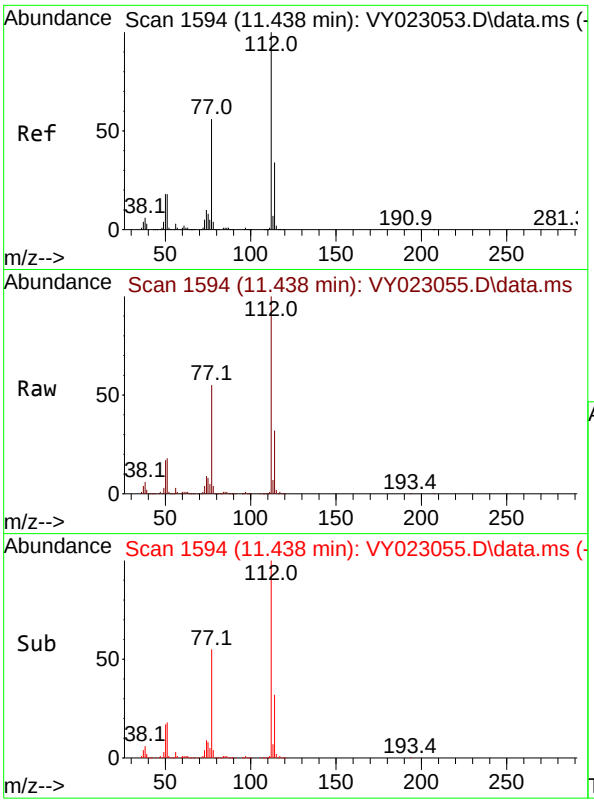



#64
Tetrachloroethene
Concen: 146.682 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:164 Resp: 990664

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 129.4 | 101.1 | 151.7 |
| 129 | 93.9 | 74.0 | 111.0 |
| 131 | 89.2 | 71.1 | 106.7 |

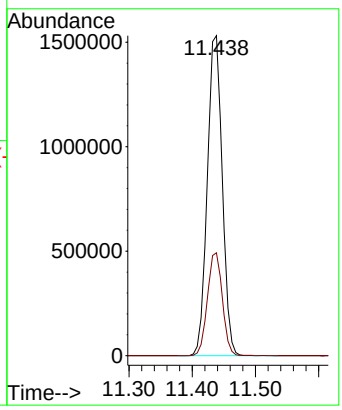





#65
Chlorobenzene
Concen: 154.514 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:112 Resp: 252087

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.2 | 27.0 | 40.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

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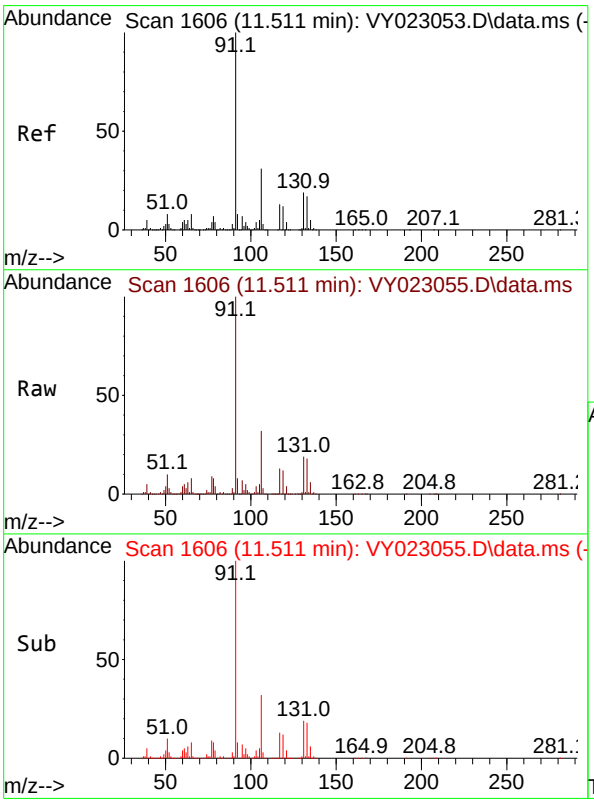
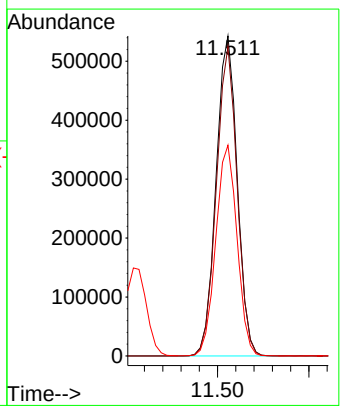
Supervised By :Semsettin Yesilyurt 08/14/2025

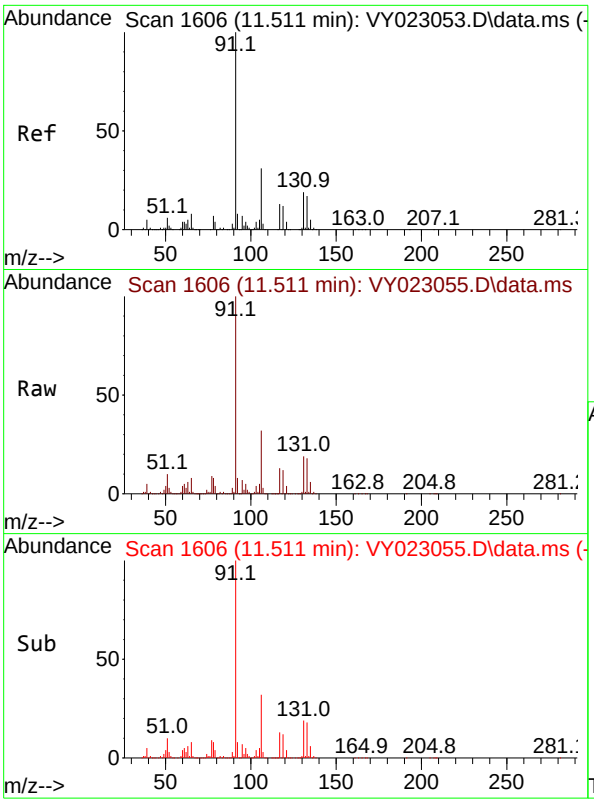



#66
1,1,1,2-Tetrachloroethane
Concen: 157.304 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:131 Resp: 871003

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.1 | 46.9 | 140.6 |
| 119 | 66.5 | 33.2 | 99.6 |

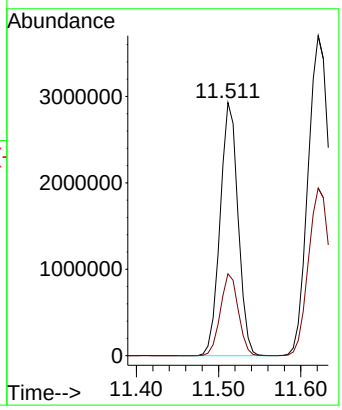





#67
Ethyl Benzene
Concen: 158.093 ug/l
RT: 11.511 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 91 Resp: 443866

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 32.4 | 25.0 | 37.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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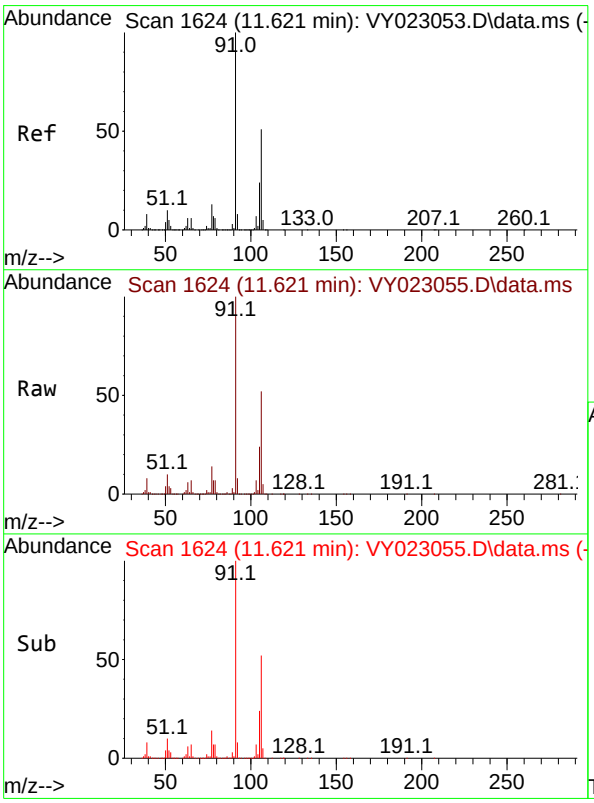
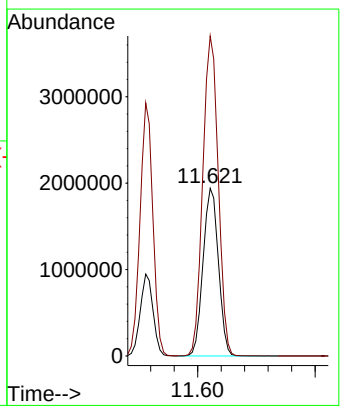
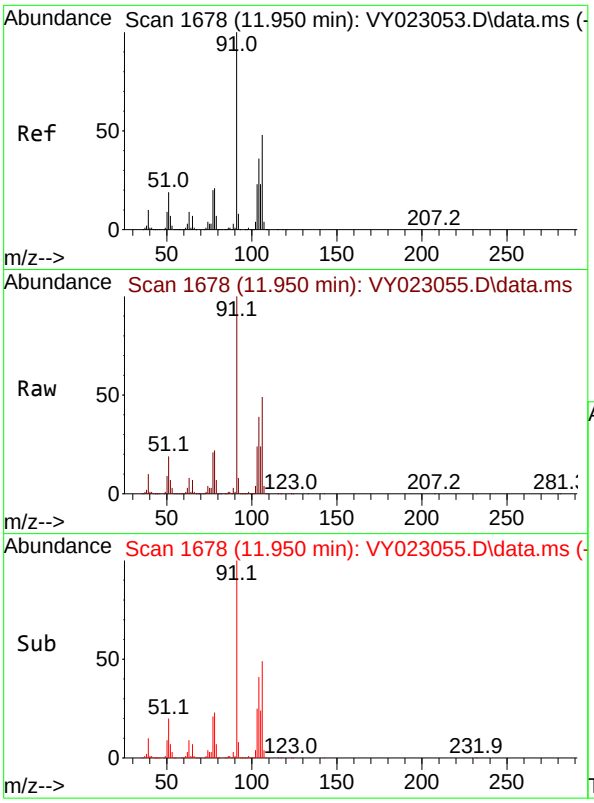



#68
m/p-Xylenes
Concen: 320.251 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:106 Resp: 3511726

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 192.1 | 158.6 | 238.0 |






#69
o-Xylene
Concen: 163.941 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:106 Resp: 168372

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 205.5 | 103.2 | 309.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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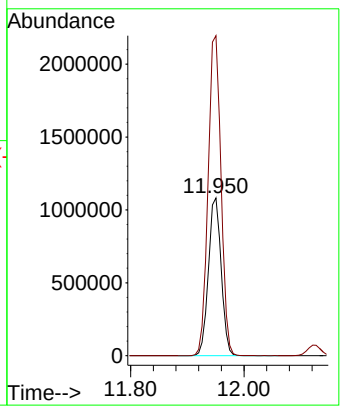
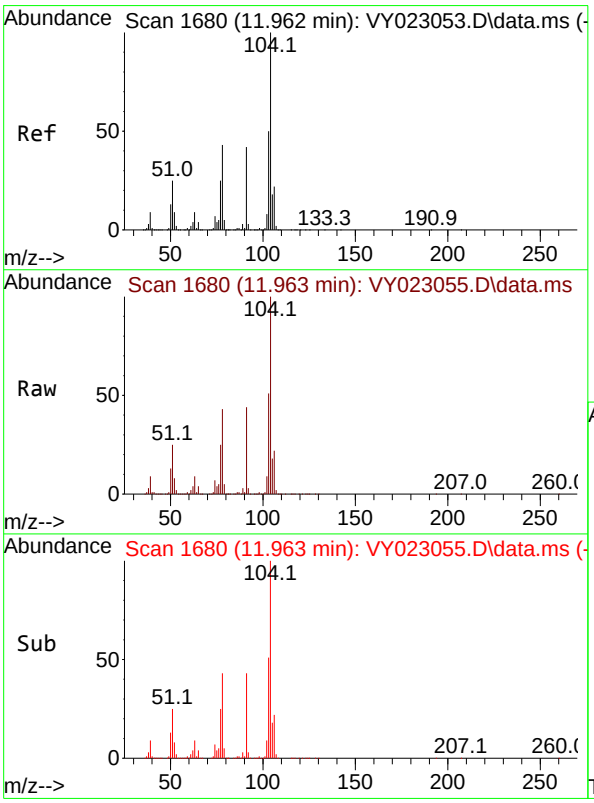
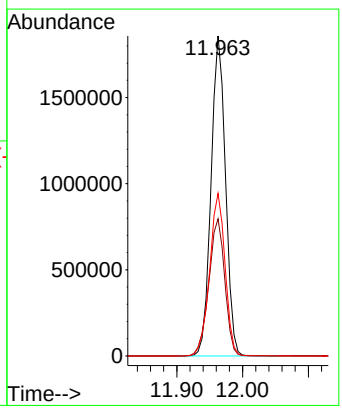


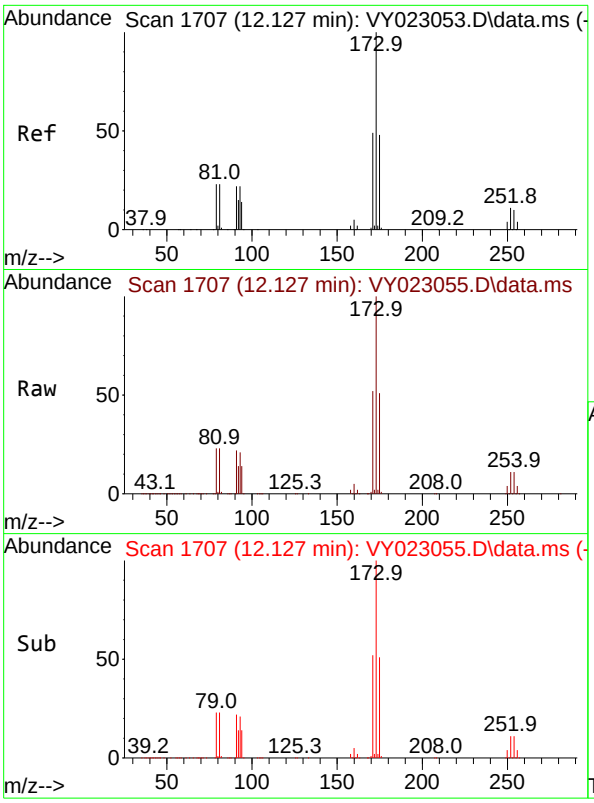




#70
Styrene
Concen: 169.475 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:104 Resp: 2846443

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 47.2 | 38.5 | 57.7 |
| 103 | 54.3 | 43.7 | 65.5 |

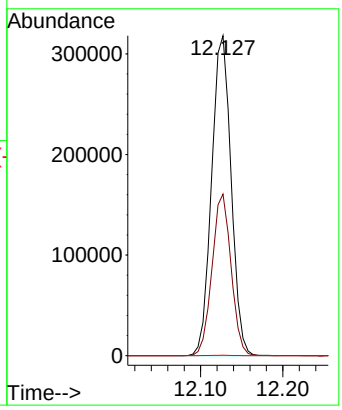





#71
Bromoform
Concen: 161.778 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:173 Resp: 52354

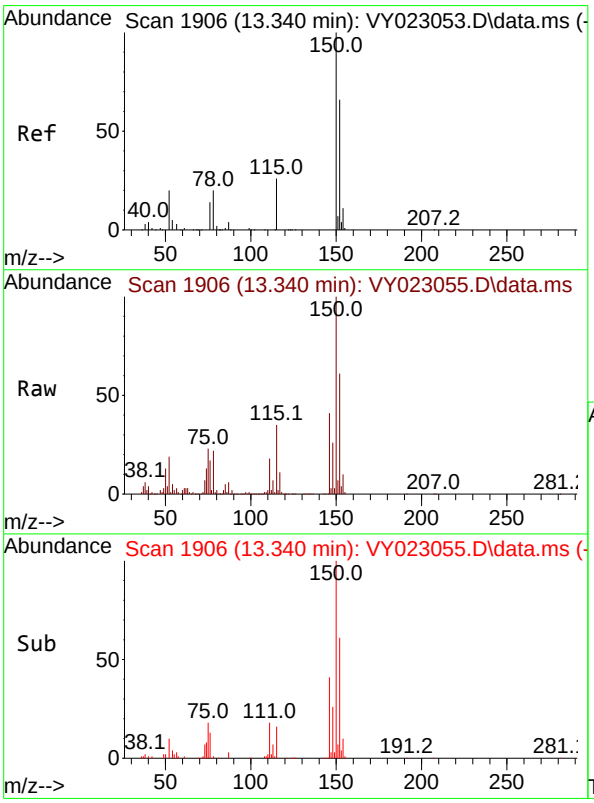
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.3 | 23.9 | 71.7 |
| 254 | 0.2 | 0.1 | 0.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

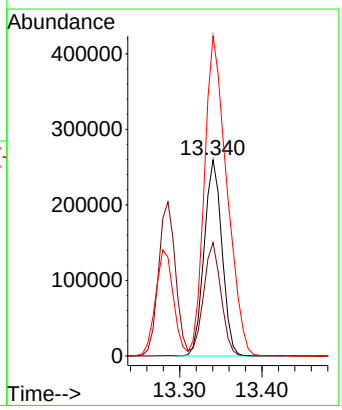
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

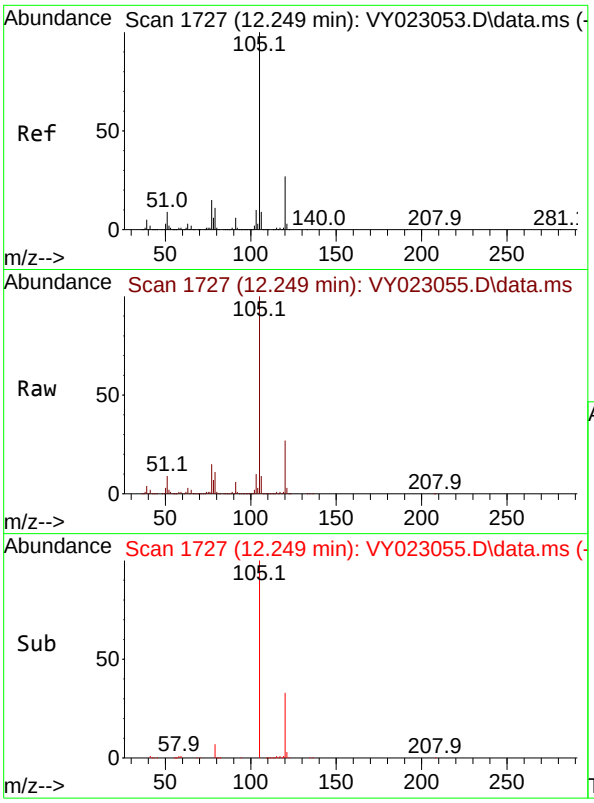



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:152 Resp: 389949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 56.7 | 28.2 | 84.6 |
| 150 | 205.8 | 0.0 | 348.0 |

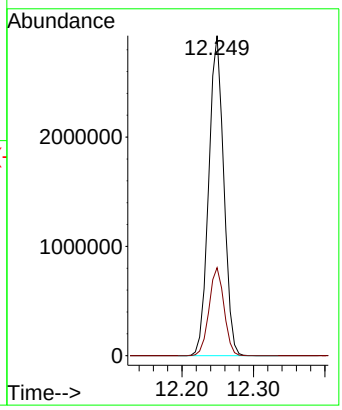





#73
Isopropylbenzene
Concen: 155.145 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:105 Resp: 426994

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.3 | 13.4 | 40.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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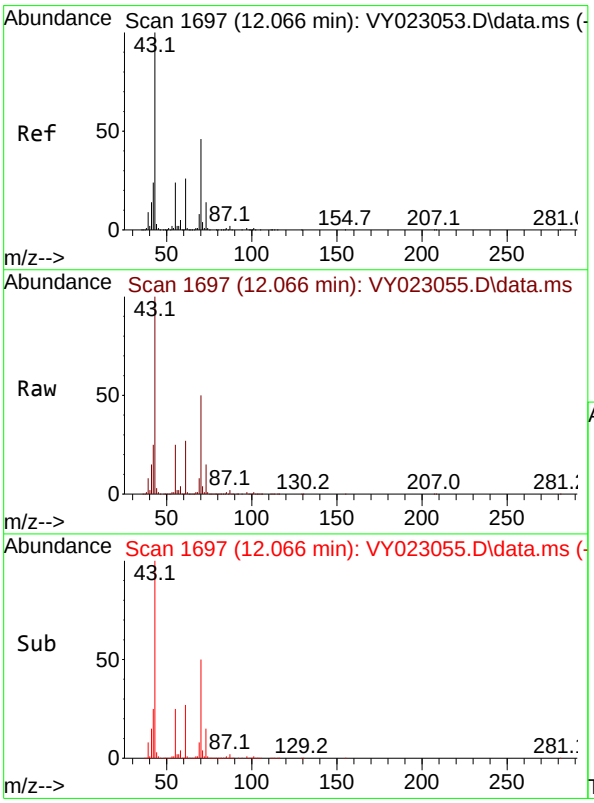
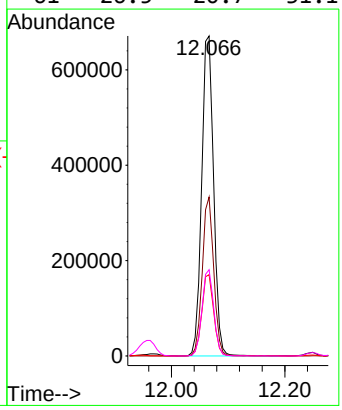
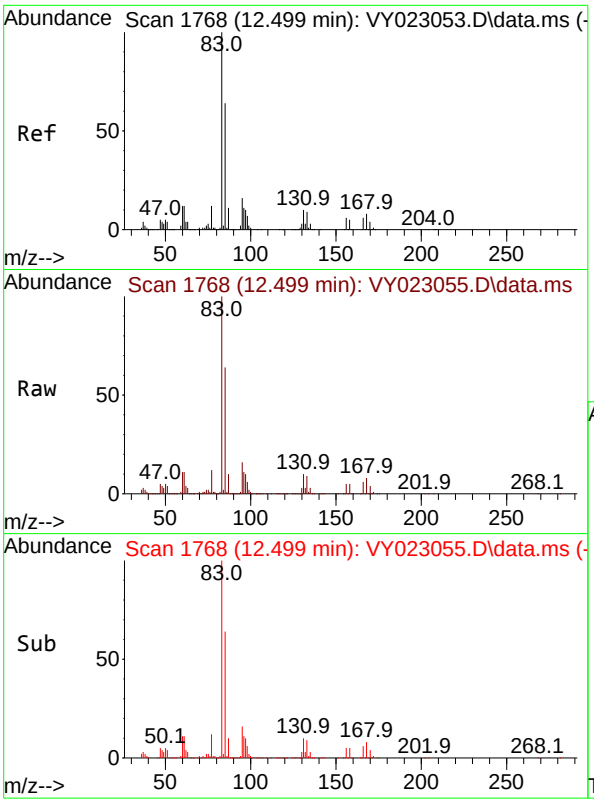



#74
N-amyl acetate
Concen: 168.265 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 43 Resp: 982090

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 47.8 | 37.5 | 56.3 |
| 55 | 25.3 | 20.7 | 31.1 |
| 61 | 26.5 | 20.7 | 31.1 |

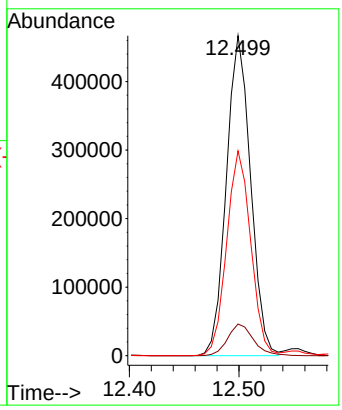





#75
1,1,2,2-Tetrachloroethane
Concen: 152.686 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 83 Resp: 71752

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.5 | 5.1 | 15.3 |
| 85 | 63.7 | 31.8 | 95.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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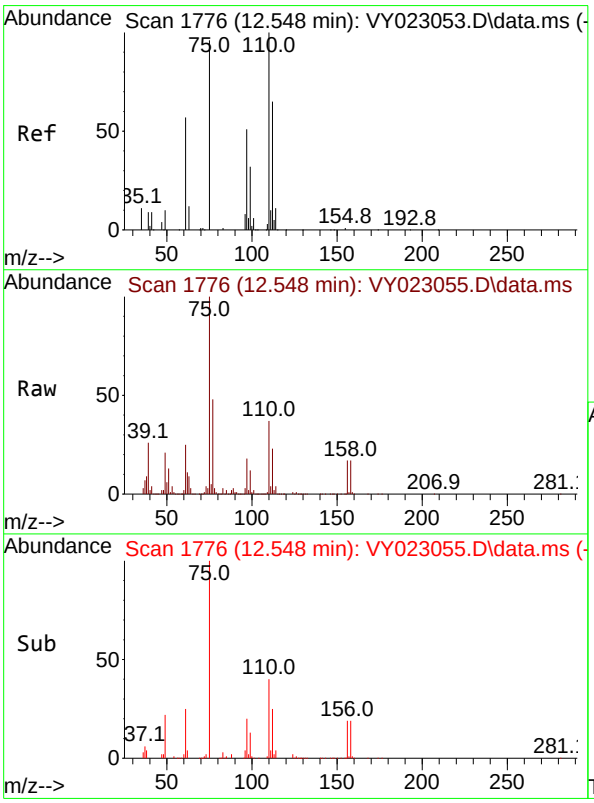
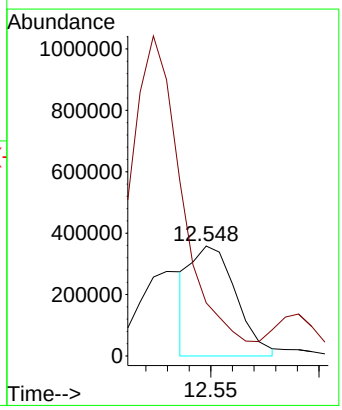
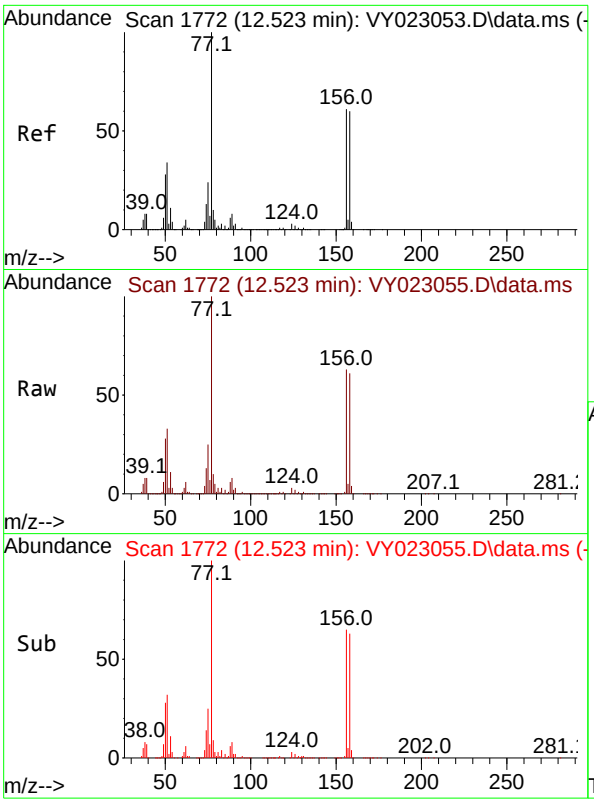



#76
1,2,3-Trichloropropane
Concen: 137.890 ug/l m
RT: 12.548 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 75 Resp: 519276

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |

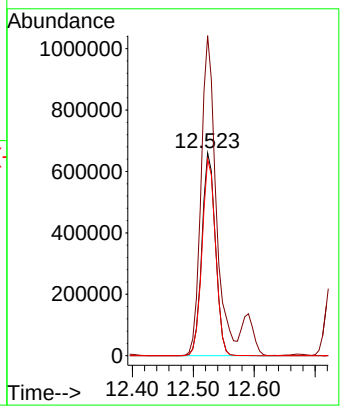





#77
Bromobenzene
Concen: 155.568 ug/l
RT: 12.523 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:156 Resp: 102144

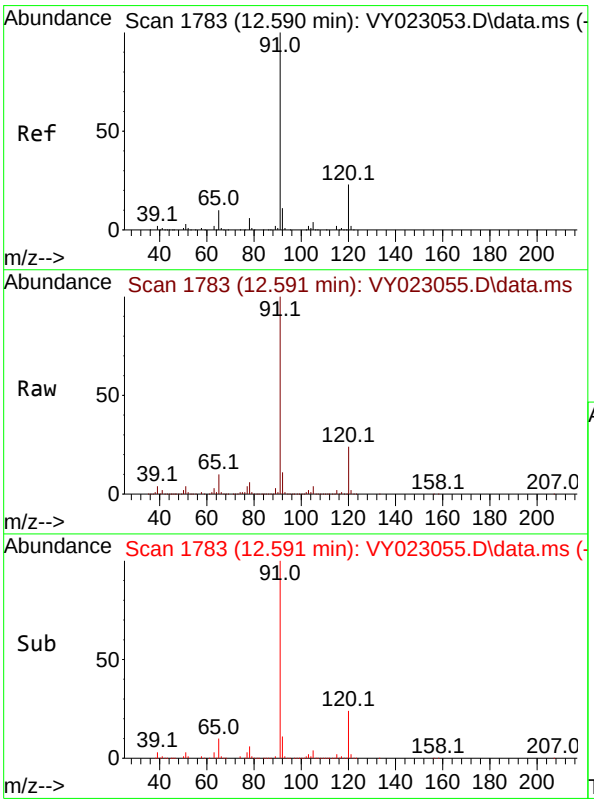
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 174.8 | 88.1 | 264.4 |
| 158 | 97.0 | 48.0 | 144.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

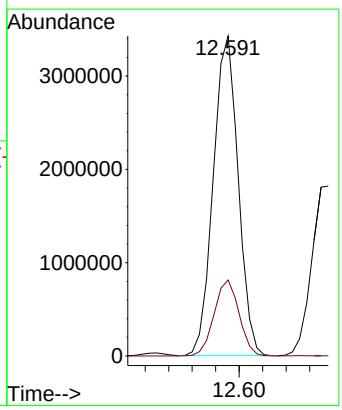
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

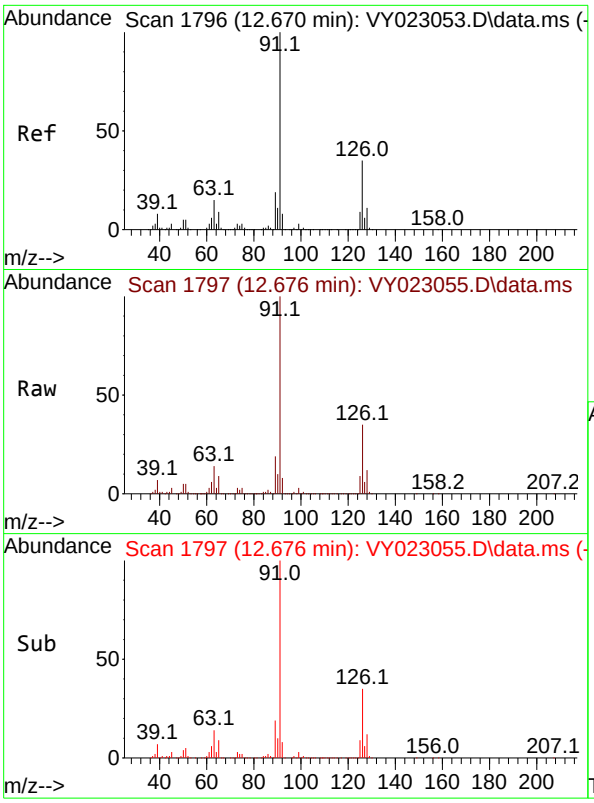



#78
n-propylbenzene
Concen: 154.058 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 91 Resp: 5048012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 23.7 | 11.5 | 34.5 |

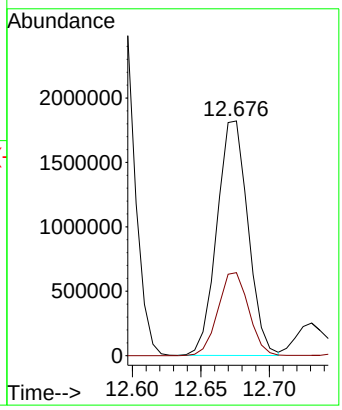





#79
2-Chlorotoluene
Concen: 153.331 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 91 Resp: 287864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.0 | 17.4 | 52.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

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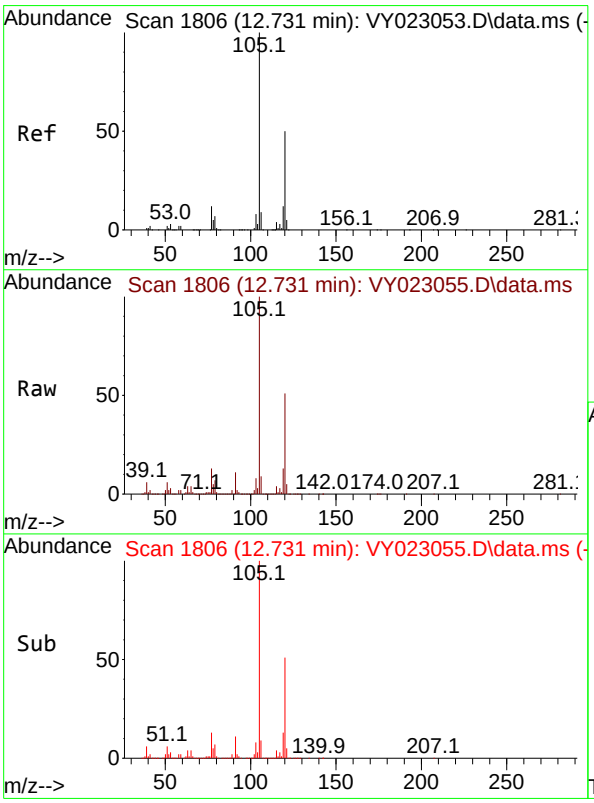
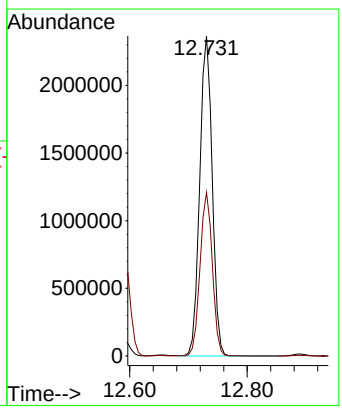
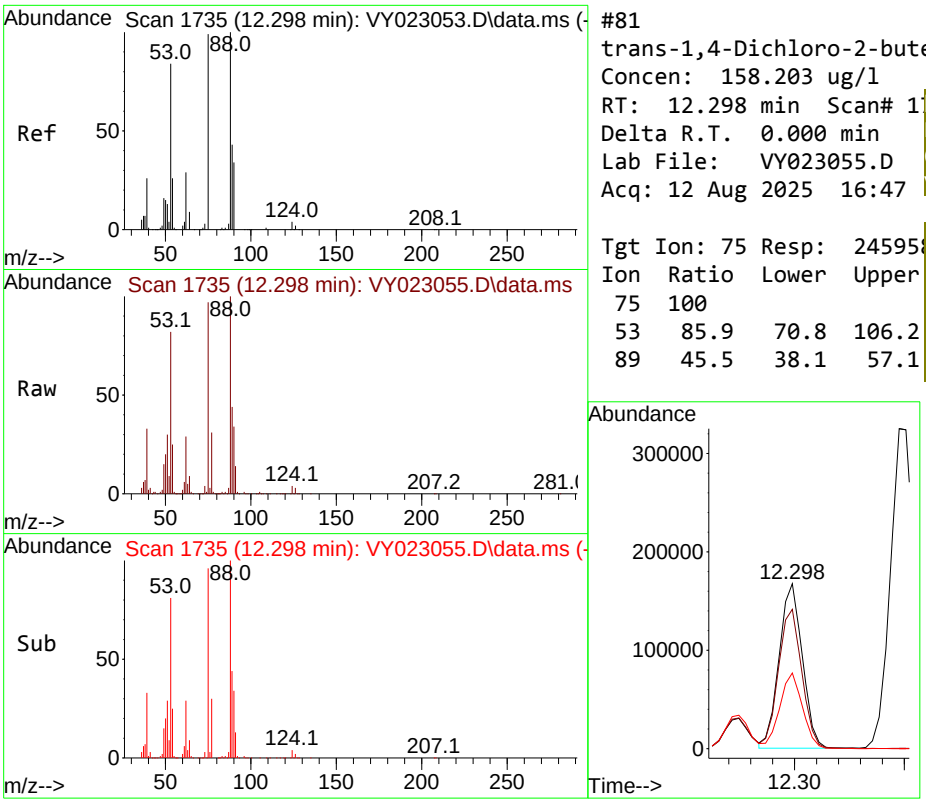



#80
1,3,5-Trimethylbenzene
Concen: 155.973 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:105 Resp: 3469329

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 50.4 | 24.8 | 74.4 |






#81
trans-1,4-Dichloro-2-butene
Concen: 158.203 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 75 Resp: 24595

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 85.9 | 70.8 | 106.2 |
| 89 | 45.5 | 38.1 | 57.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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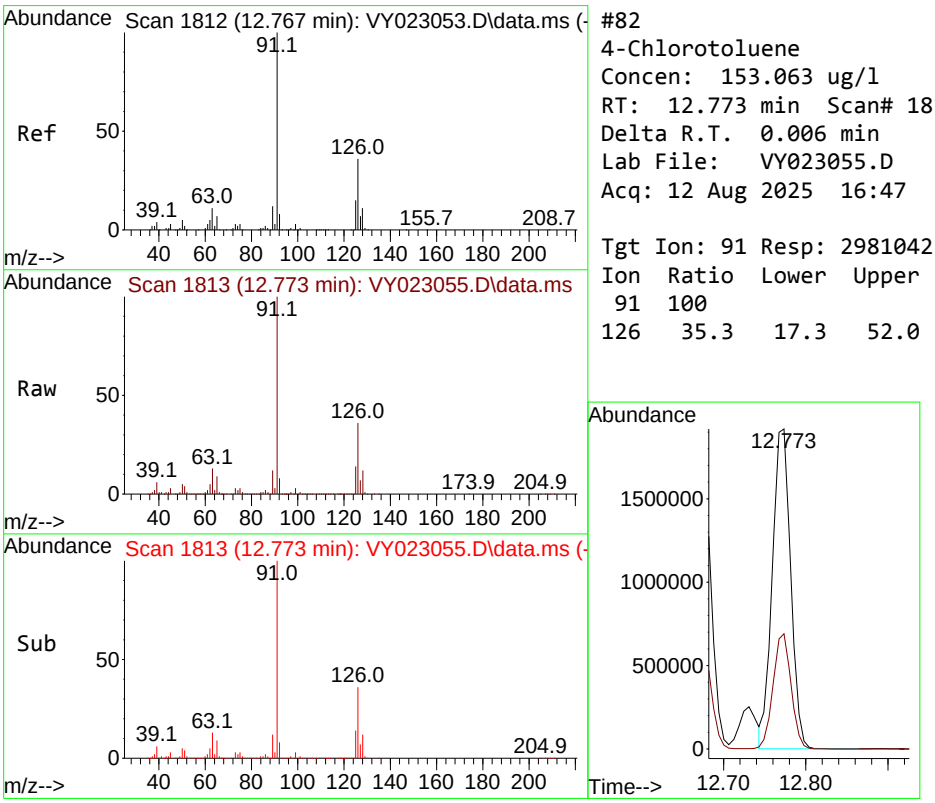
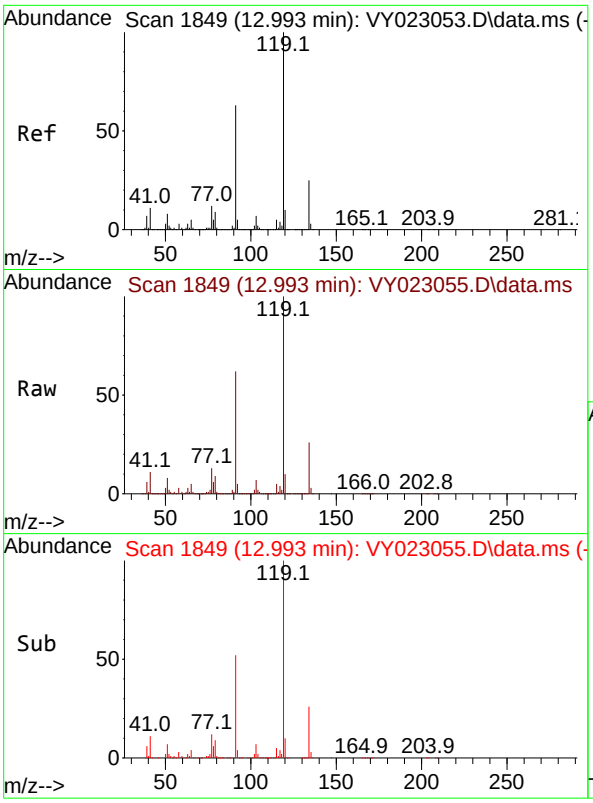



#82
4-Chlorotoluene
Concen: 153.063 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 91 Resp: 2981042

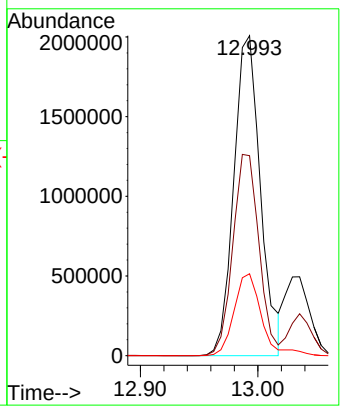
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.3 | 17.3 | 52.0 |




#83
tert-Butylbenzene
Concen: 157.371 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:119 Resp: 316147

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 62.0 | 31.6 | 94.8 |
| 134 | 26.4 | 12.9 | 38.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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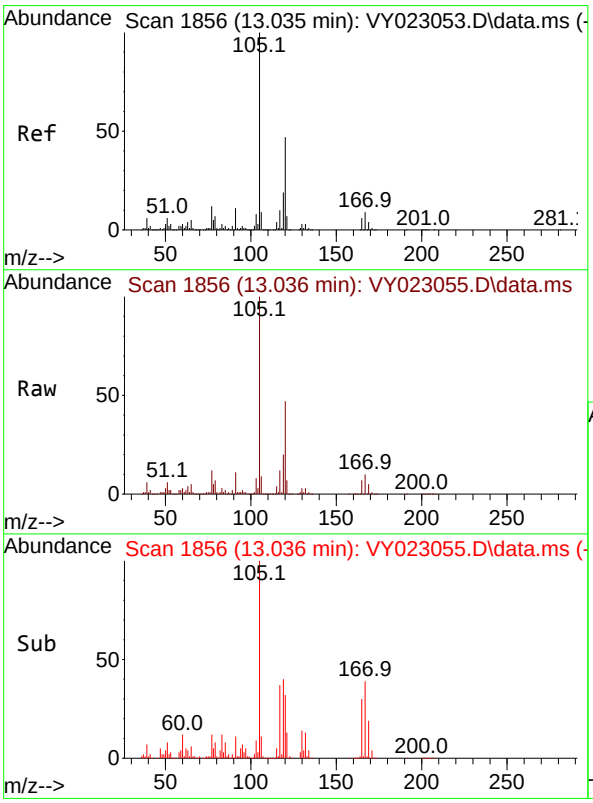
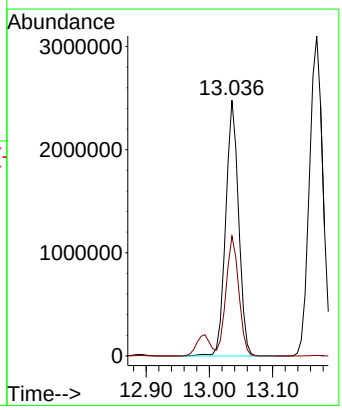
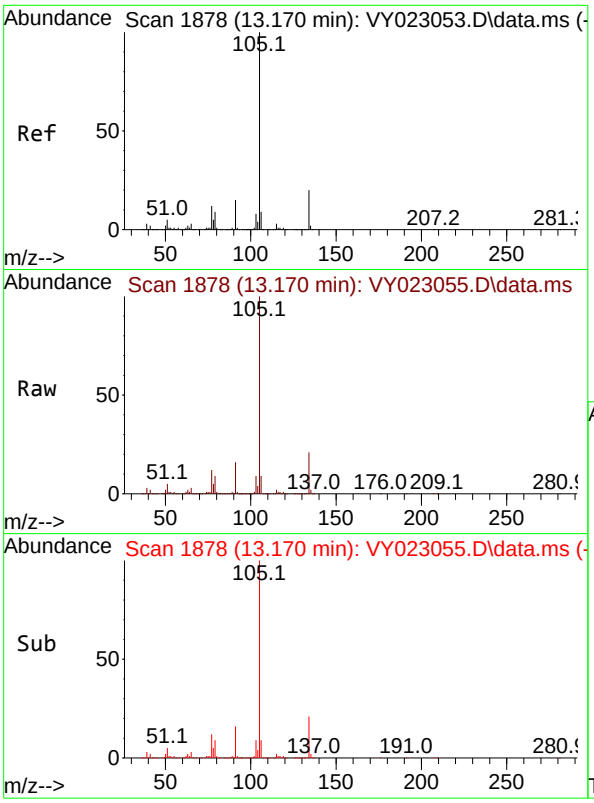



#84
1,2,4-Trimethylbenzene
Concen: 158.143 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:105 Resp: 3501626

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.2 | 23.0 | 69.0 |

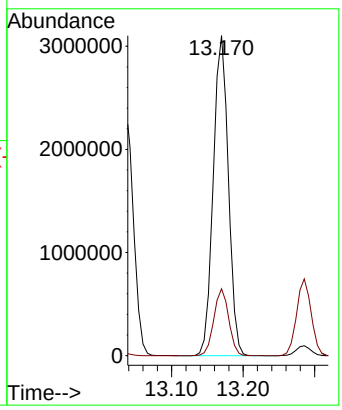





#85
sec-Butylbenzene
Concen: 153.897 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:105 Resp: 454162

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.6 | 10.2 | 30.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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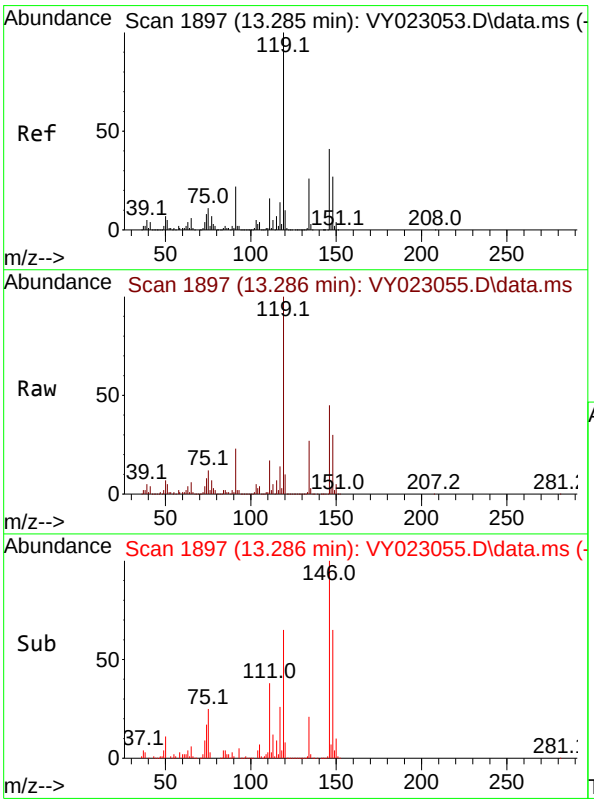
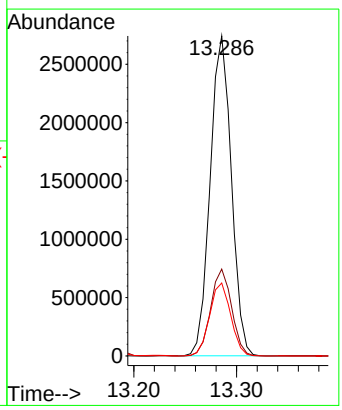
Supervised By :Semsettin Yesilyurt 08/14/2025

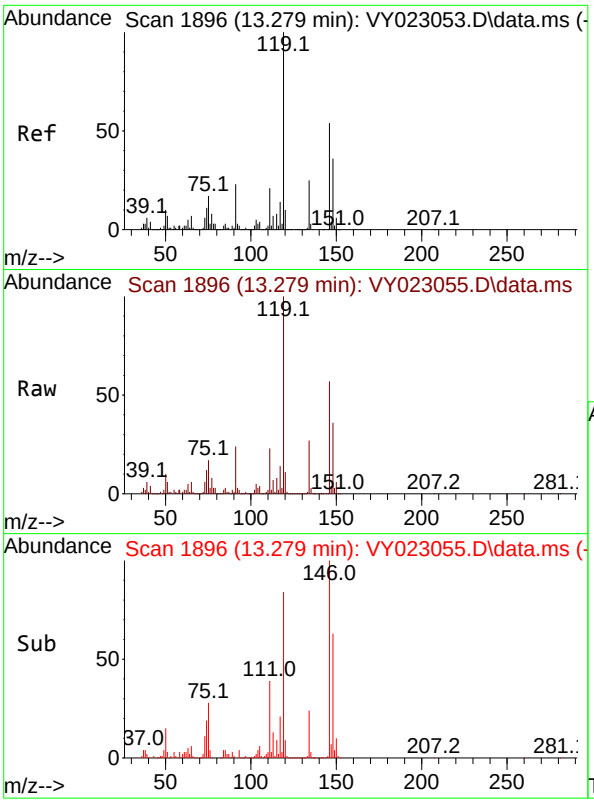



#86
p-Isopropyltoluene
Concen: 159.987 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:119 Resp: 3918969

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.9 | 13.2 | 39.6 |
| 91 | 22.6 | 11.3 | 33.8 |

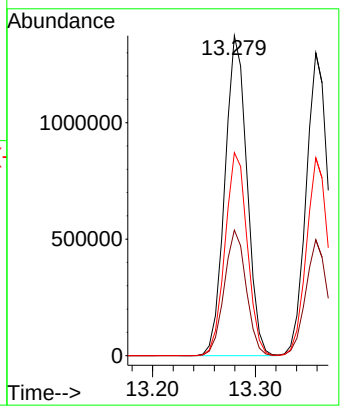





#87
1,3-Dichlorobenzene
Concen: 158.251 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:146 Resp: 204906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.9 | 19.6 | 58.7 |
| 148 | 63.8 | 32.5 | 97.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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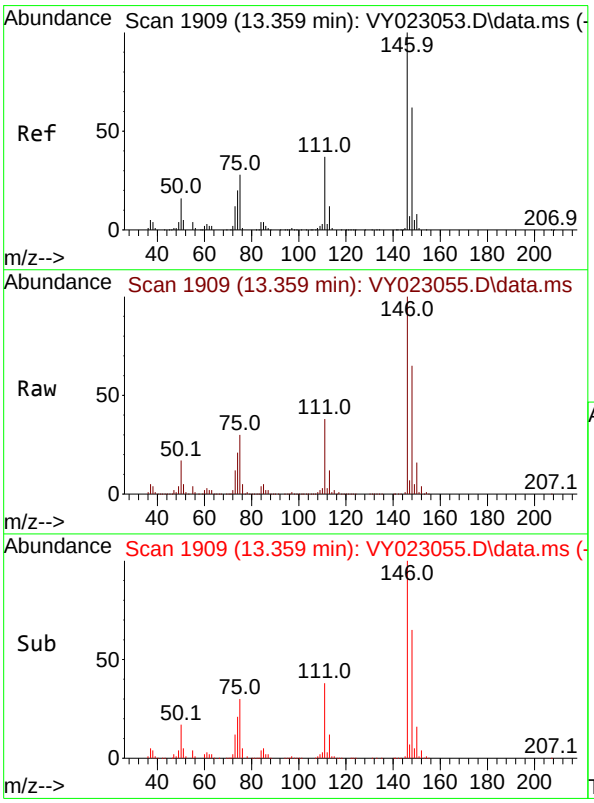
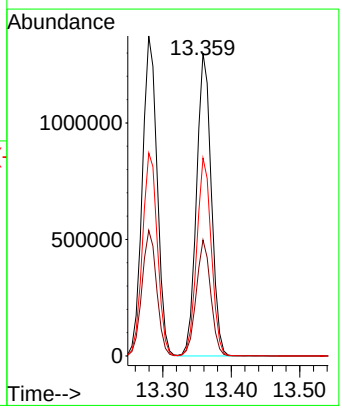
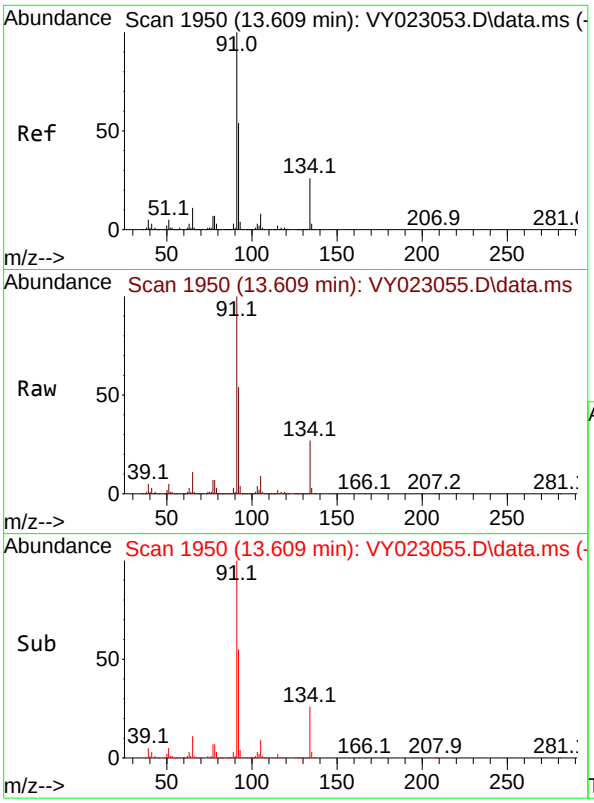



#88
1,4-Dichlorobenzene
Concen: 151.172 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:146 Resp: 1941716

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 37.5 | 19.1 | 57.1 |
| 148 | 64.7 | 31.6 | 94.7 |

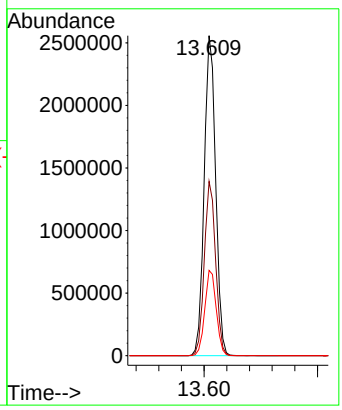





#89
n-Butylbenzene
Concen: 159.048 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 91 Resp: 357827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.9 | 26.9 | 80.7 |
| 134 | 26.7 | 13.2 | 39.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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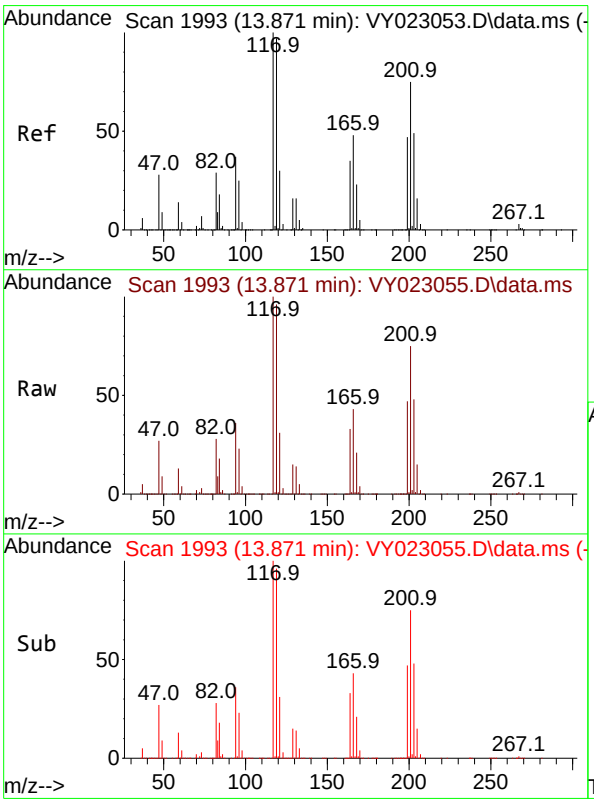
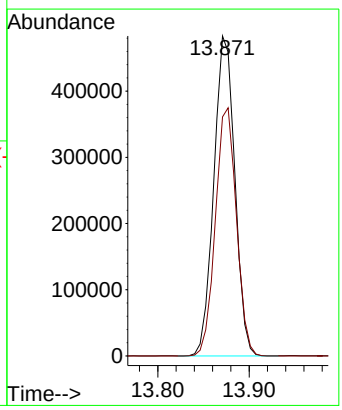
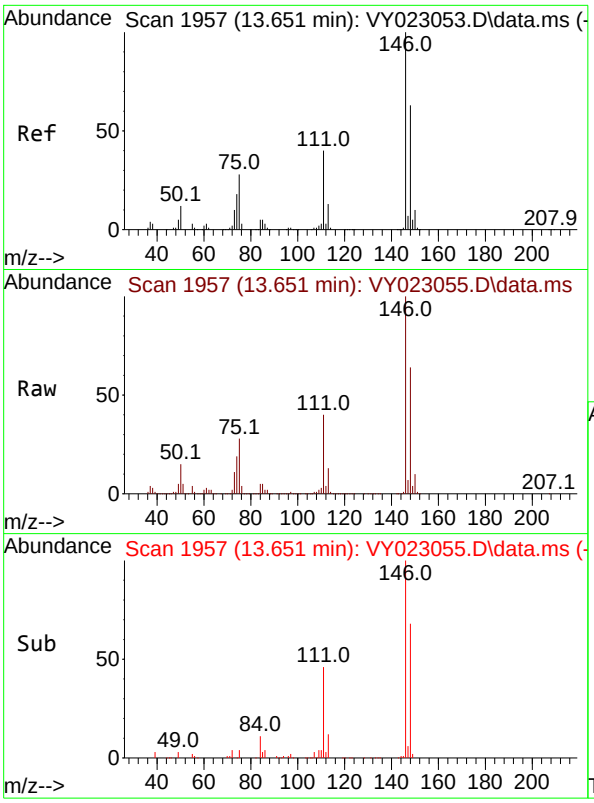



#90
Hexachloroethane
Concen: 154.073 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:117 Resp: 772603

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 77.6 | 38.4 | 115.1 |

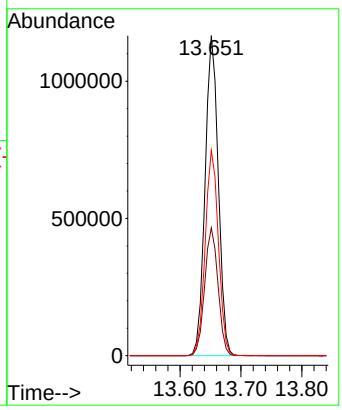





#91
1,2-Dichlorobenzene
Concen: 154.469 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:146 Resp: 175410

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.4 | 20.3 | 60.8 |
| 148 | 64.2 | 32.2 | 96.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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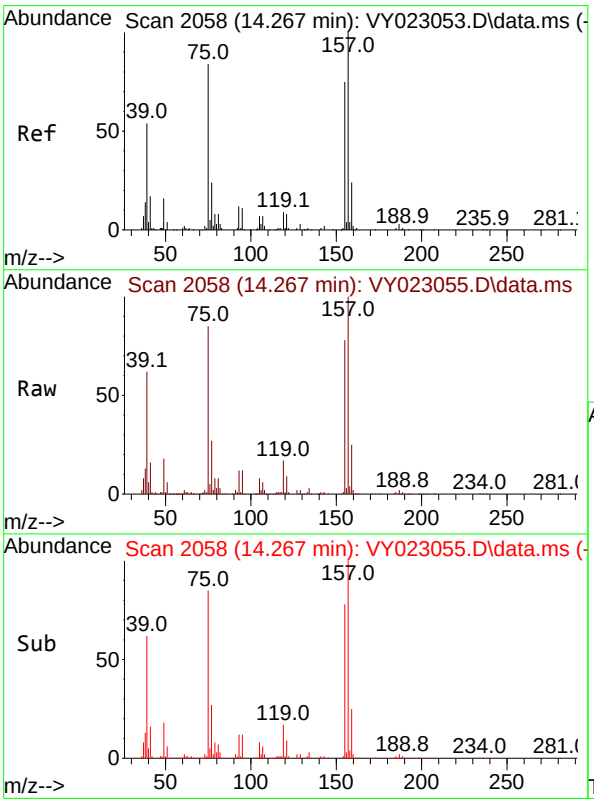
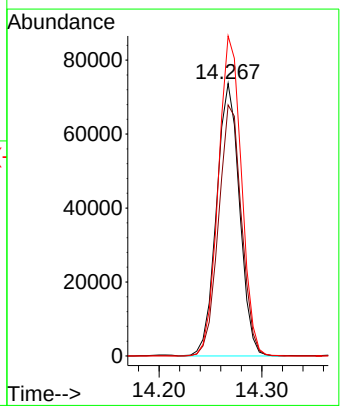
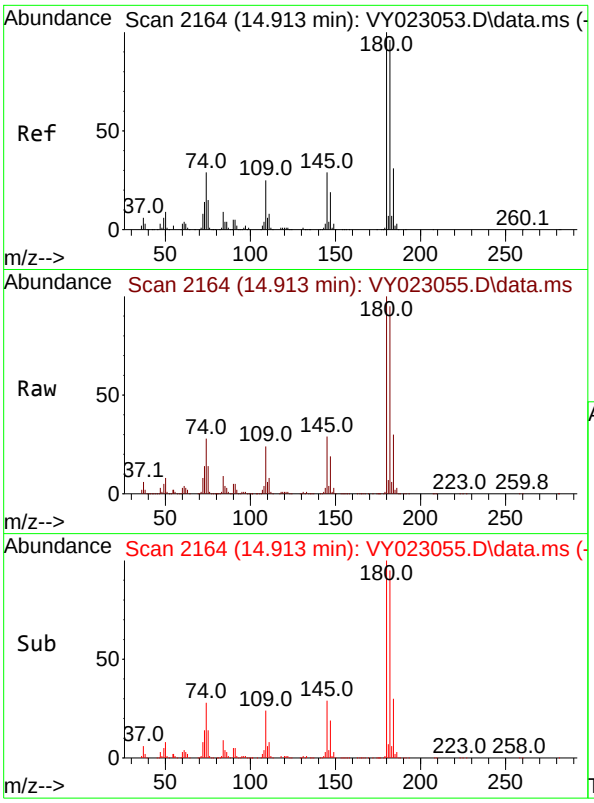



#92
1,2-Dibromo-3-Chloropropane
Concen: 156.498 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 75 Resp: 114505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 91.8 | 43.9 | 131.6 |
| 157 | 117.9 | 57.2 | 171.6 |

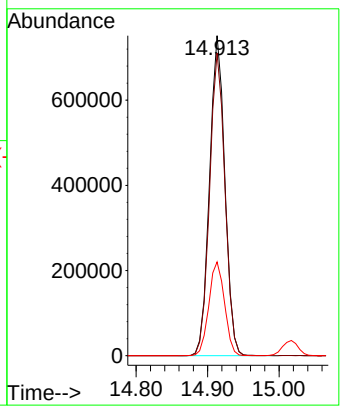





#93
1,2,4-Trichlorobenzene
Concen: 166.397 ug/l
RT: 14.913 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:180 Resp: 111740

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.0 | 46.8 | 140.4 |
| 145 | 30.0 | 14.4 | 43.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

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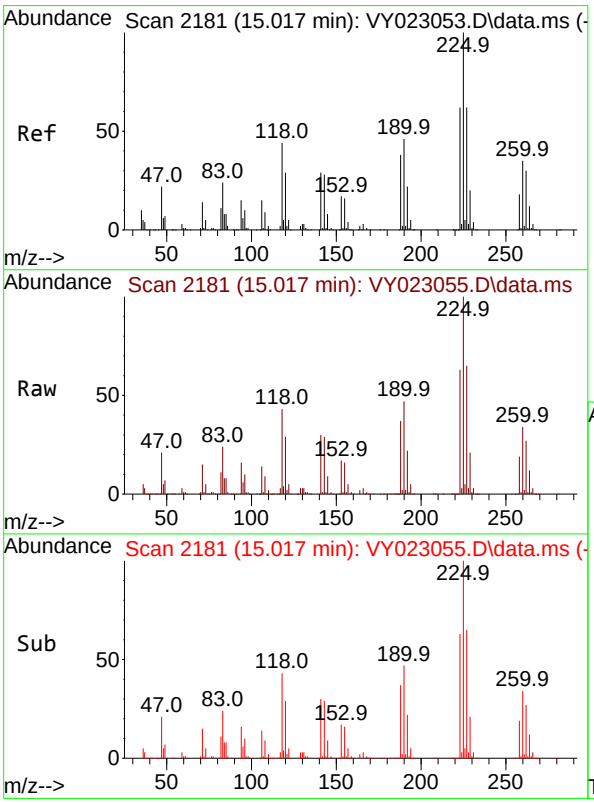
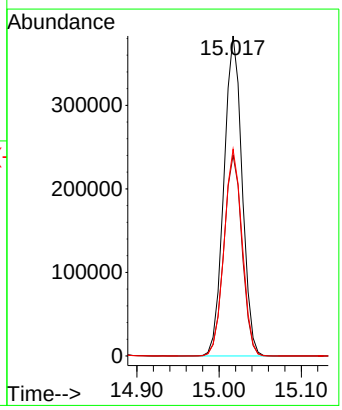
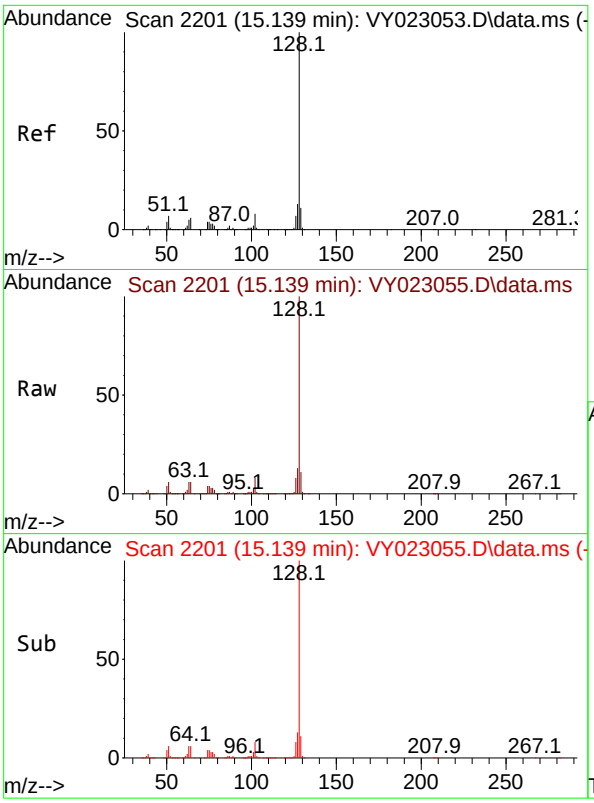



#94
Hexachlorobutadiene
Concen: 149.352 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:225 Resp: 589351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.4 | 31.3 | 93.8 |
| 227 | 63.8 | 31.5 | 94.5 |

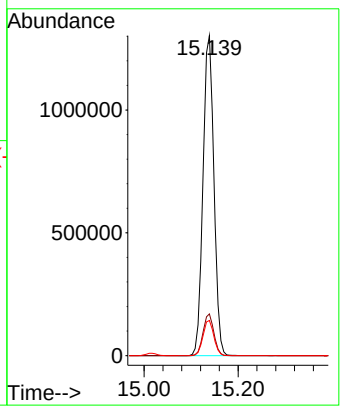





#95
Naphthalene
Concen: 182.954 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:128 Resp: 209498

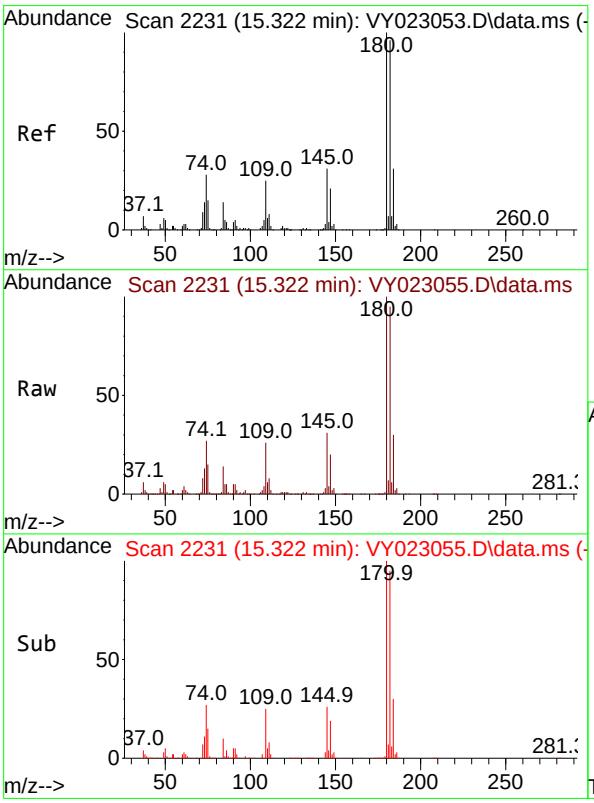
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.9 | 10.4 | 15.6 |
| 129 | 11.0 | 9.0 | 13.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

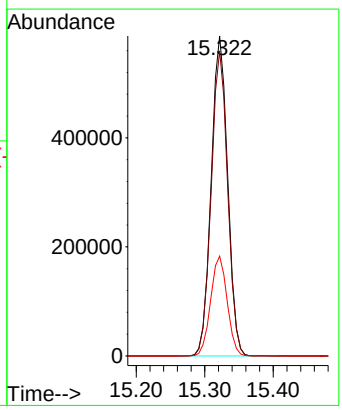
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025




#96
1,2,3-Trichlorobenzene
Concen: 168.557 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:180 Resp: 975366

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.2 | 47.9 | 143.7 |
| 145 | 31.4 | 15.9 | 47.7 |



ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023057.D
Acq On : 12 Aug 2025 17:53
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

**Manual Integrations APPROVED**
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 02:14:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 528657 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.610 | 114 | 849851 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 756555 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 376990 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.055 | 65 | 252116 | 50.038 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 100.080% | | | |
| 35) Dibromofluoromethane | 7.628 | 113 | 255171 | 50.179 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 100.360% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 979510 | 49.306 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 98.620% | | | |
| 62) 4-Bromofluorobenzene | 12.402 | 95 | 329022 | 51.500 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 103.000% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 179421 | 41.579 | ug/l | 99 |
| 3) Chloromethane | 2.068 | 50 | 340600 | 48.732 | ug/l | 100 |
| 4) Vinyl Chloride | 2.202 | 62 | 416413 | 48.198 | ug/l | 99 |
| 5) Bromomethane | 2.592 | 94 | 303147 | 46.983 | ug/l | 98 |
| 6) Chloroethane | 2.733 | 64 | 281008 | 48.923 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.050 | 101 | 493782 | 47.003 | ug/l | 100 |
| 8) Diethyl Ether | 3.452 | 74 | 132818 | 47.787 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 3.812 | 101 | 247351 | 47.725 | ug/l | 99 |
| 10) Methyl Iodide | 4.001 | 142 | 287126 | 51.340 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.860 | 59 | 84906 | 245.940 | ug/l | 98 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 242931 | 47.686 | ug/l | 95 |
| 13) Acrolein | 3.647 | 56 | 112246 | 222.008 | ug/l | 98 |
| 14) Allyl chloride | 4.379 | 41 | 354691 | 47.317 | ug/l | 99 |
| 15) Acrylonitrile | 5.055 | 53 | 274329 | 242.779 | ug/l | 99 |
| 16) Acetone | 3.867 | 43 | 229985 | 210.695 | ug/l | 96 |
| 17) Carbon Disulfide | 4.104 | 76 | 779852 | 46.948 | ug/l | 99 |
| 18) Methyl Acetate | 4.385 | 43 | 168821 | 51.972 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 658713 | 49.899 | ug/l | 100 |
| 20) Methylene Chloride | 4.610 | 84 | 283386 | 49.960 | ug/l | 98 |
| 21) trans-1,2-Dichloroethene | 5.110 | 96 | 279182 | 48.765 | ug/l | 98 |
| 22) Diisopropyl ether | 6.019 | 45 | 814622 | 50.011 | ug/l | 97 |
| 23) Vinyl Acetate | 5.958 | 43 | 2182924 | 242.360 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 483509 | 48.551 | ug/l | 100 |
| 25) 2-Butanone | 6.890 | 43 | 341490 | 230.028 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 390777 | 45.475 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.884 | 96 | 322451 | 48.720 | ug/l | 99 |
| 28) Bromochloromethane | 7.238 | 49 | 198640 | 50.275 | ug/l | 100 |
| 29) Tetrahydrofuran | 7.262 | 42 | 227680 | 247.420 | ug/l | 100 |
| 30) Chloroform | 7.421 | 83 | 497627 | 48.450 | ug/l | 97 |
| 31) Cyclohexane | 7.695 | 56 | 436638 | 46.526 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.610 | 97 | 445943 | 48.933 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 7.829 | 75 | 364210 | 48.193 | ug/l | 99 |
| 37) Ethyl Acetate | 6.982 | 43 | 157530 | 49.621 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 394245 | 48.030 | ug/l | 99 |
| 39) Methylcyclohexane | 9.103 | 83 | 493867 | 49.625 | ug/l | 98 |
| 40) Benzene | 8.073 | 78 | 1128023 | 48.428 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023057.D
Acq On : 12 Aug 2025 17:53
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 13 02:14:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.220 | 41 | 88437 | 48.269 | ug/l | | 99 |
| 42) 1,2-Dichloroethane | 8.152 | 62 | 291766 | 48.162 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.195 | 43 | 315013 | 49.094 | ug/l | | 98 |
| 44) Trichloroethene | 8.860 | 130 | 287745 | 47.803 | ug/l | | 95 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 262408 | 48.961 | ug/l | | 98 |
| 46) Dibromomethane | 9.225 | 93 | 149745 | 48.679 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.420 | 83 | 391522 | 49.463 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.219 | 41 | 155118 | 50.520 | ug/l | | 99 |
| 49) 1,4-Dioxane | 9.225 | 88 | 35050 | 971.749 | ug/l | | 98 |
| 51) 4-Methyl-2-Pentanone | 9.993 | 43 | 823949 | 248.943 | ug/l | | 99 |
| 52) Toluene | 10.164 | 92 | 724356 | 48.963 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 356228 | 49.699 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 415017 | 48.965 | ug/l | | 97 |
| 55) 1,1,2-Trichloroethane | 10.567 | 97 | 201146 | 48.867 | ug/l | | 98 |
| 56) Ethyl methacrylate | 10.432 | 69 | 267458 | 50.779 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 343649 | 49.228 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 678865 | 273.240 | ug/l | | 100 |
| 59) 2-Hexanone | 10.756 | 43 | 551743 | 244.812 | ug/l | | 99 |
| 60) Dibromochloromethane | 10.908 | 129 | 270536 | 49.810 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.012 | 107 | 190334 | 49.197 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.640 | 164 | 307456 | 45.512 | ug/l | | 98 |
| 65) Chlorobenzene | 11.438 | 112 | 787799 | 48.275 | ug/l | | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 11.512 | 131 | 270360 | 48.815 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.512 | 91 | 1380648 | 49.163 | ug/l | | 100 |
| 68) m/p-Xylenes | 11.621 | 106 | 1080541 | 98.515 | ug/l | | 99 |
| 69) o-Xylene | 11.950 | 106 | 509991 | 49.645 | ug/l | | 99 |
| 70) Styrene | 11.963 | 104 | 852310 | 50.733 | ug/l | | 99 |
| 71) Bromoform | 12.127 | 173 | 157073 | 48.525 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.249 | 105 | 1327070 | 49.876 | ug/l | | 100 |
| 74) N-amyl acetate | 12.066 | 43 | 285118 | 50.529 | ug/l | | 100 |
| 75) 1,1,2,2-Tetrachloroethane | 12.499 | 83 | 224206 | 49.350 | ug/l | | 98 |
| 76) 1,2,3-Trichloropropane | 12.548 | 75 | 167859m | 46.136 | ug/l | | |
| 77) Bromobenzene | 12.524 | 156 | 311065 | 49.004 | ug/l | | 99 |
| 78) n-propylbenzene | 12.591 | 91 | 1610911 | 50.853 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 905657 | 49.898 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.731 | 105 | 1094902 | 50.916 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.298 | 75 | 74263 | 49.409 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 12.774 | 91 | 932114 | 49.505 | ug/l | | 100 |
| 83) tert-Butylbenzene | 12.993 | 119 | 979692 | 50.443 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.036 | 105 | 1092616 | 51.042 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.170 | 105 | 1459437 | 51.154 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.286 | 119 | 1222900 | 51.639 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.280 | 146 | 621371 | 49.639 | ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 13.359 | 146 | 602429 | 48.514 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.609 | 91 | 1122189 | 51.594 | ug/l | | 100 |
| 90) Hexachloroethane | 13.871 | 117 | 245386 | 50.617 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 13.651 | 146 | 540506 | 49.234 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.267 | 75 | 35428 | 50.085 | ug/l | | 98 |
| 93) 1,2,4-Trichlorobenzene | 14.913 | 180 | 320472 | 49.363 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.017 | 225 | 184430 | 48.344 | ug/l | | 99 |
| 95) Naphthalene | 15.139 | 128 | 571480 | 51.623 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.322 | 180 | 272638 | 48.735 | ug/l | | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023057.D
Acq On : 12 Aug 2025 17:53
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

Quant Time: Aug 13 02:14:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

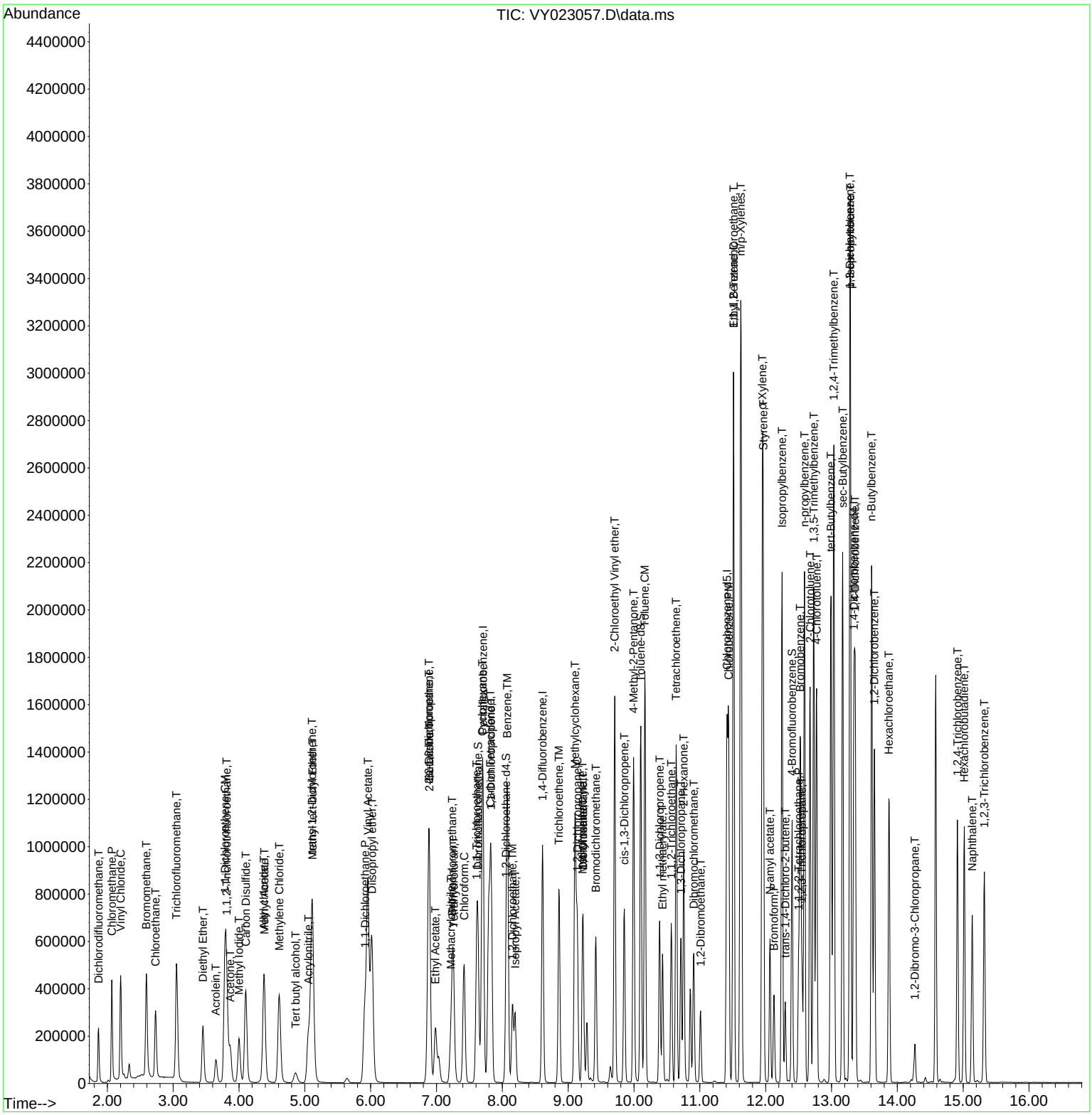
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023057.D
Acq On : 12 Aug 2025 17:53
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

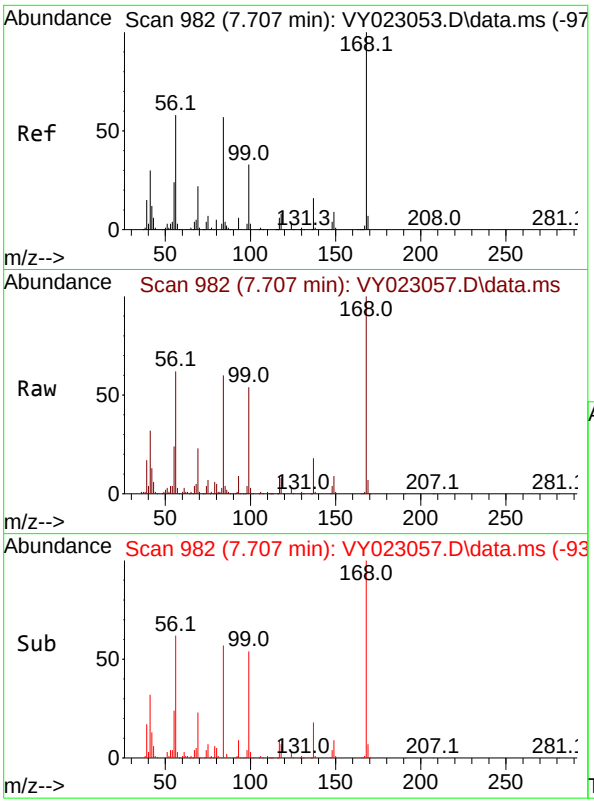
Quant Time: Aug 13 02:14:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

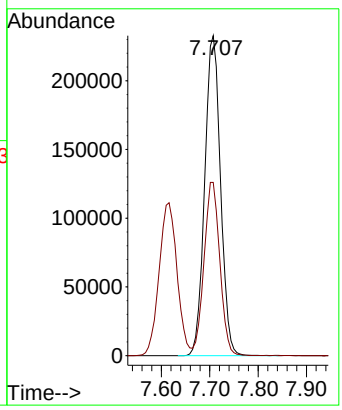





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:168 Resp: 52865

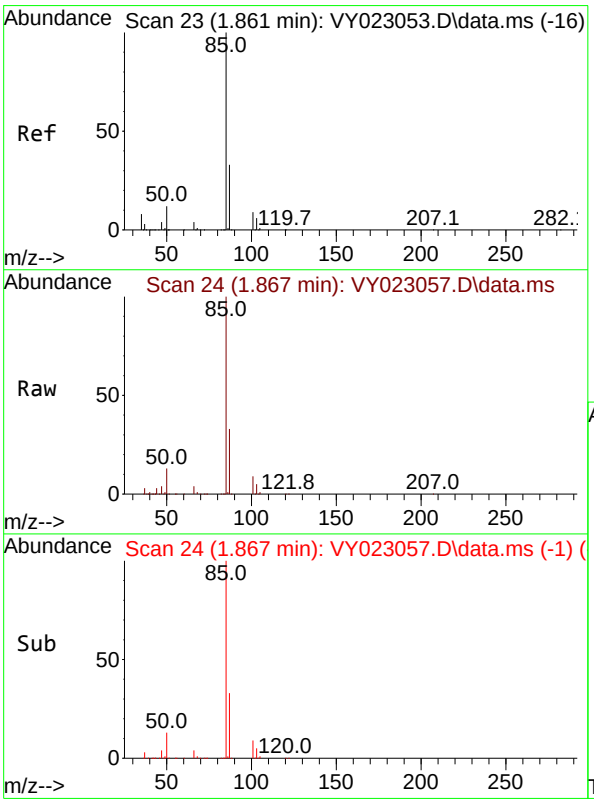
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 54.1 | 42.8 | 64.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

**Manual Integrations**
**APPROVED**

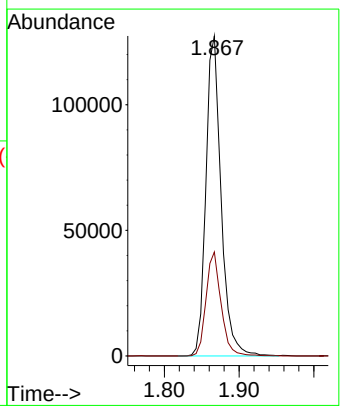
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

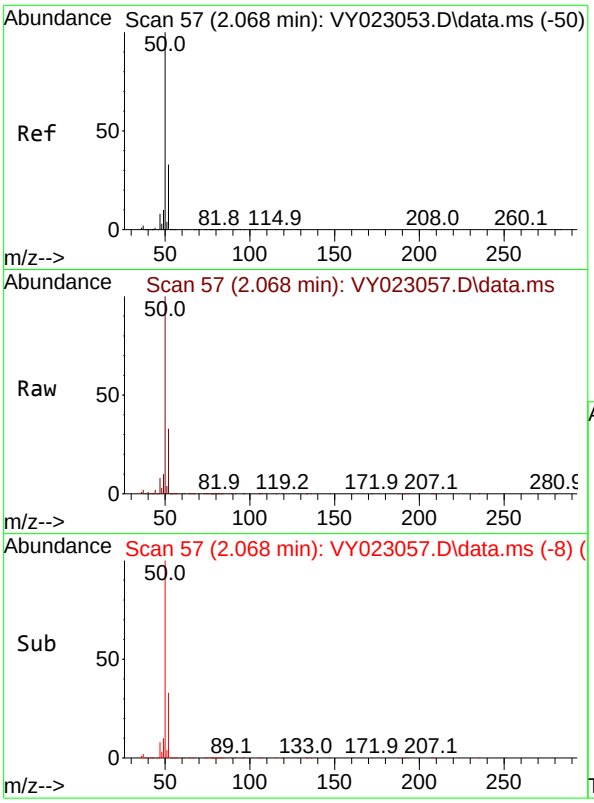



#2
Dichlorodifluoromethane
Concen: 41.579 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 85 Resp: 179421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.5 | 16.6 | 49.8 |

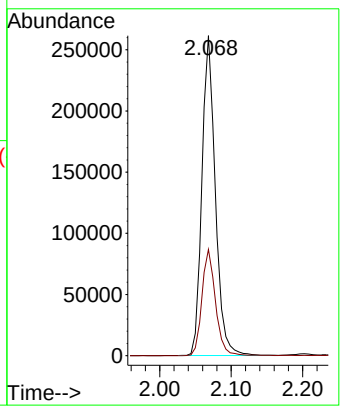





#3
Chloromethane
Concen: 48.732 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 50 Resp: 34060

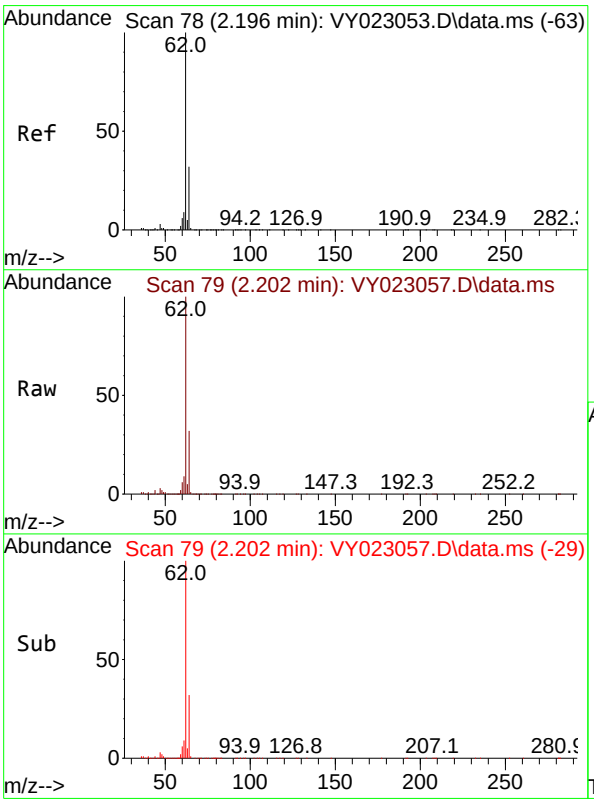
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.2 | 26.7 | 40.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

**Manual Integrations APPROVED**

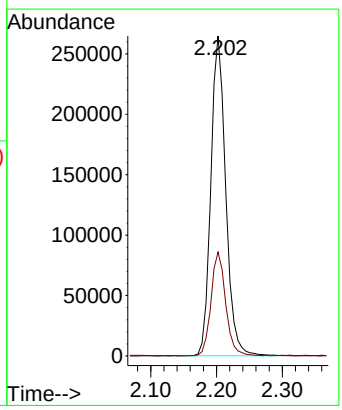
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

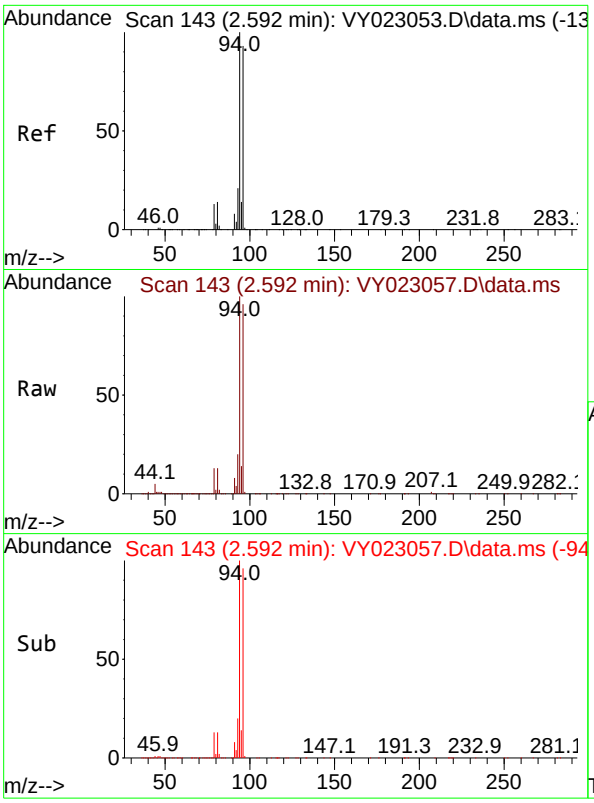



#4
Vinyl Chloride
Concen: 48.198 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 62 Resp: 416413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.4 | 25.4 | 38.0 |

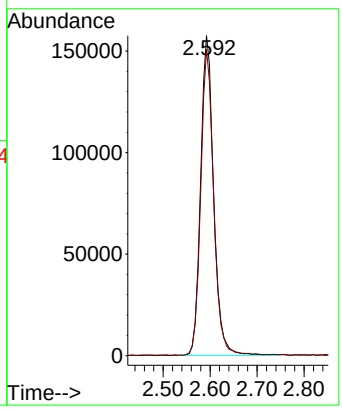





#5
Bromomethane
Concen: 46.983 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 94 Resp: 30314

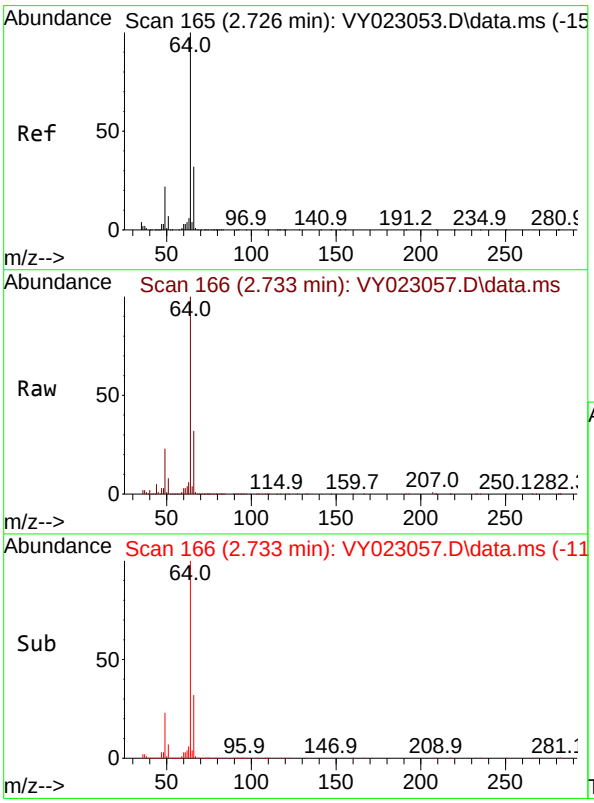
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 95.7 | 74.6 | 112.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

**Manual Integrations**
**APPROVED**

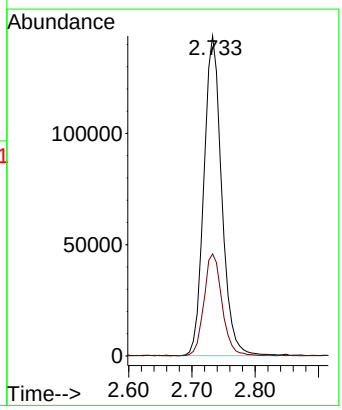
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

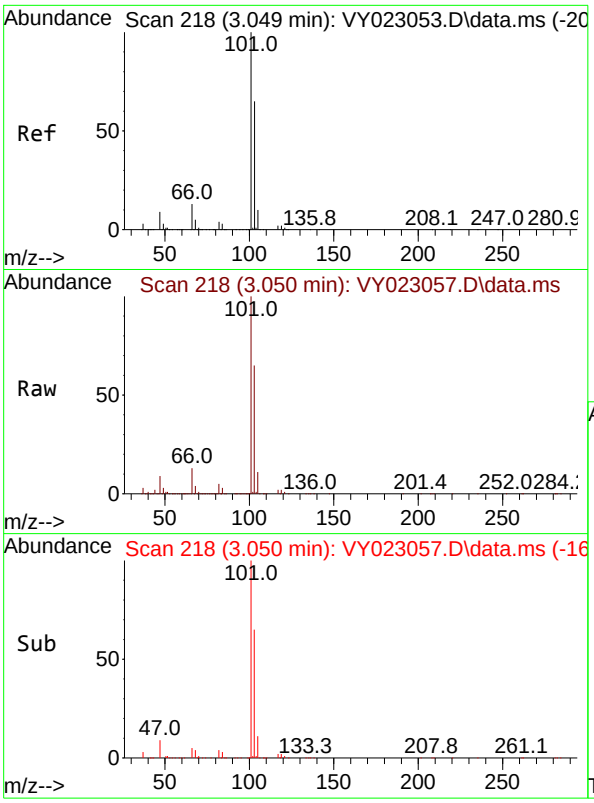



#6
Chloroethane
Concen: 48.923 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 64 Resp: 281008

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.9 | 25.8 | 38.6 |

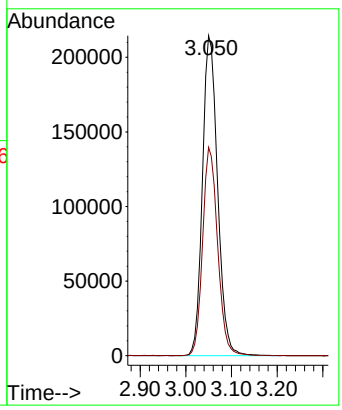





#7
Trichlorofluoromethane
Concen: 47.003 ug/l
RT: 3.050 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:101 Resp: 49378

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.1 | 51.9 | 77.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

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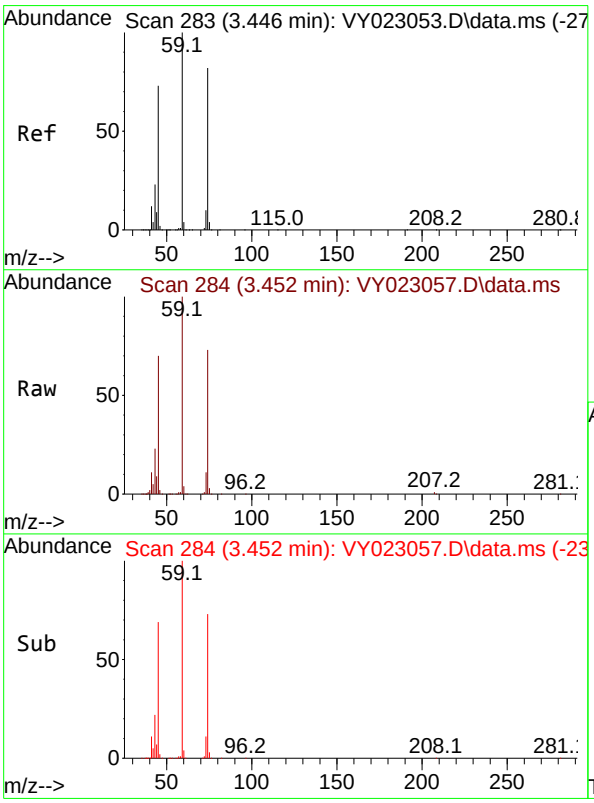
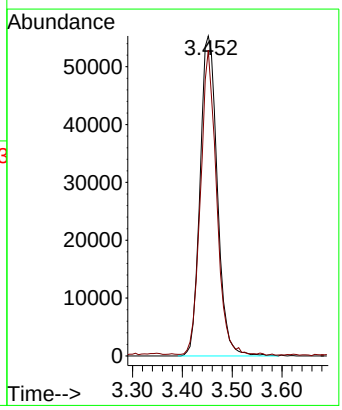
Supervised By :Semsettin Yesilyurt 08/14/2025

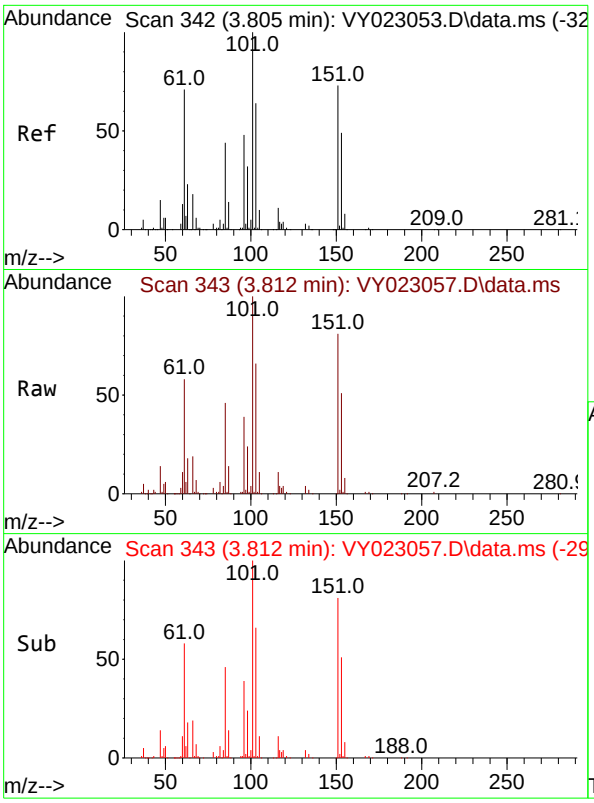



#8
Diethyl Ether
Concen: 47.787 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 74 Resp: 132818

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 88.1 | 44.4 | 133.2 |

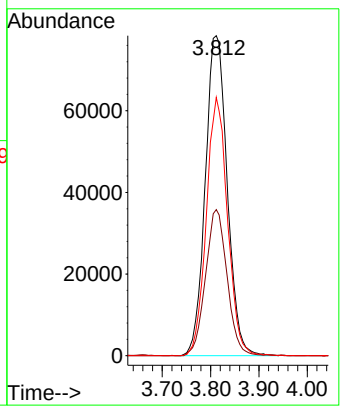





#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.725 ug/l
RT: 3.812 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:101 Resp: 24735

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 44.9 | 36.3 | 54.5 |
| 151 | 77.9 | 61.5 | 92.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

**Manual Integrations**
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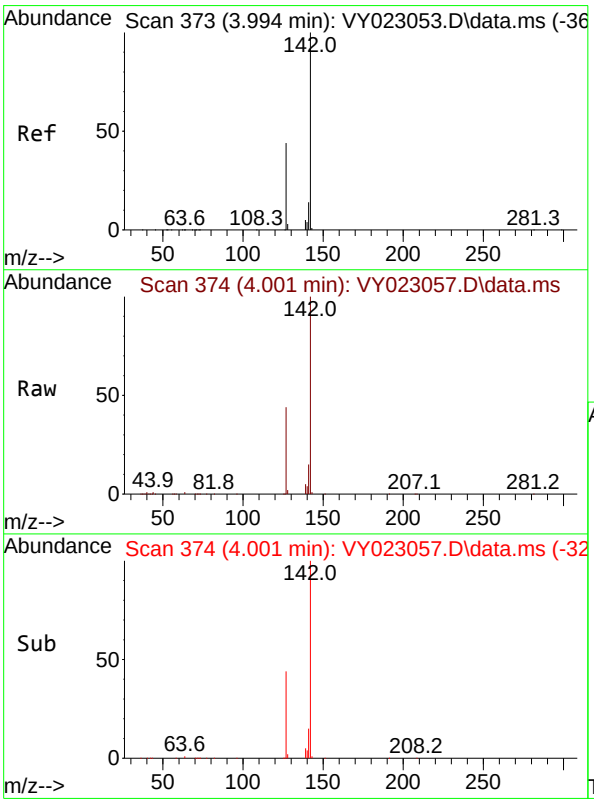
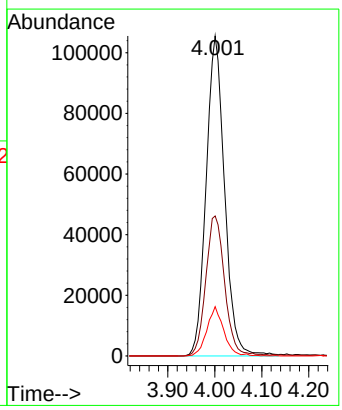
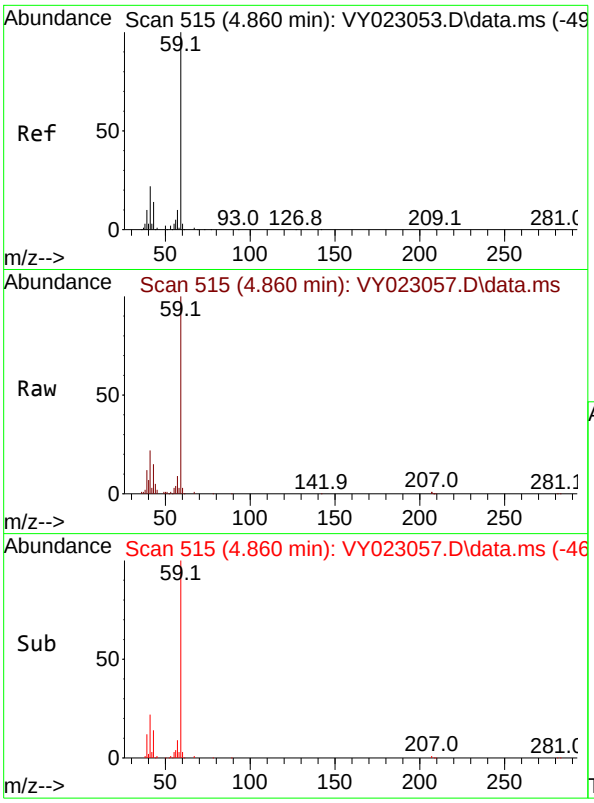



#10
Methyl Iodide
Concen: 51.340 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:142 Resp: 287126

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 44.8 | 34.9 | 52.3 |
| 141 | 14.1 | 11.3 | 16.9 |

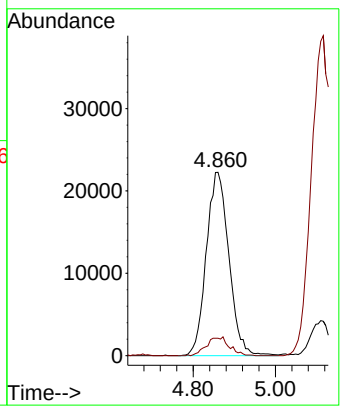





#11
Tert butyl alcohol
Concen: 245.940 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 59 Resp: 8490

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.2 | 8.6 | 13.0 |




**Instrument :**
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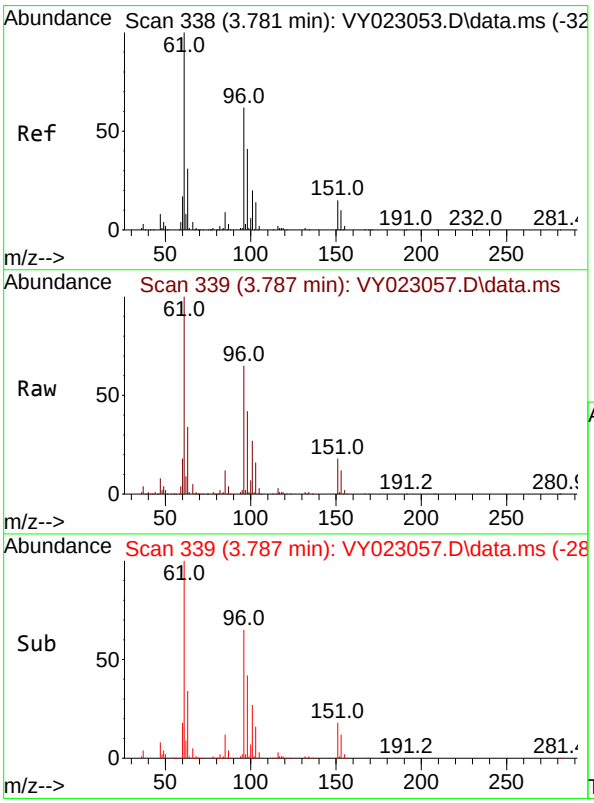
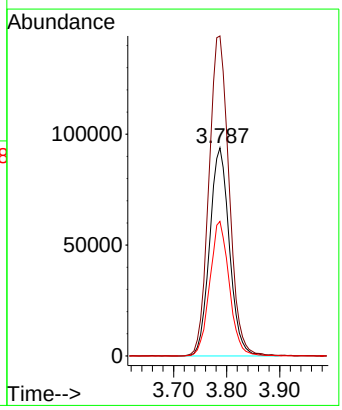
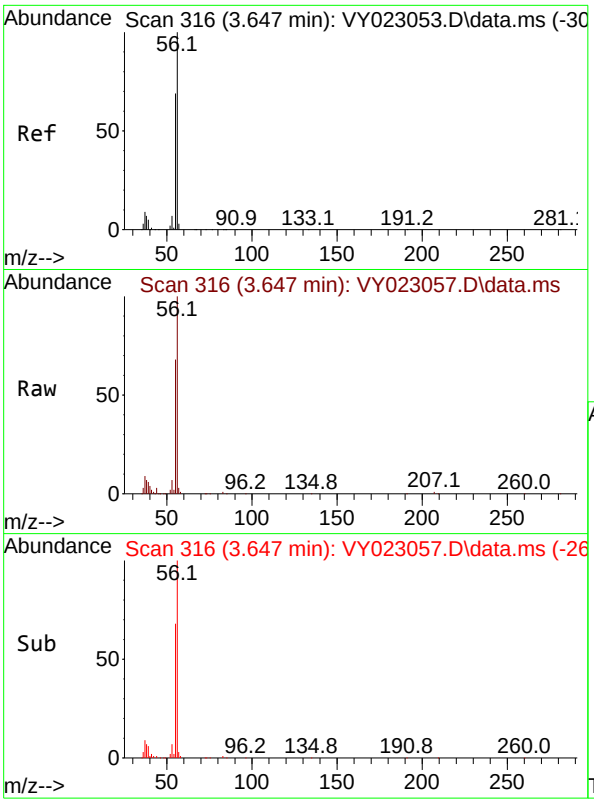



#12
1,1-Dichloroethene
Concen: 47.686 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 96 Resp: 242931

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 153.7 | 129.4 | 194.2 |
| 98 | 64.6 | 52.8 | 79.2 |

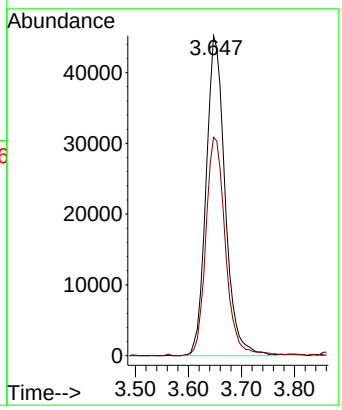





#13
Acrolein
Concen: 222.008 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 56 Resp: 11224

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 70.5 | 55.2 | 82.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

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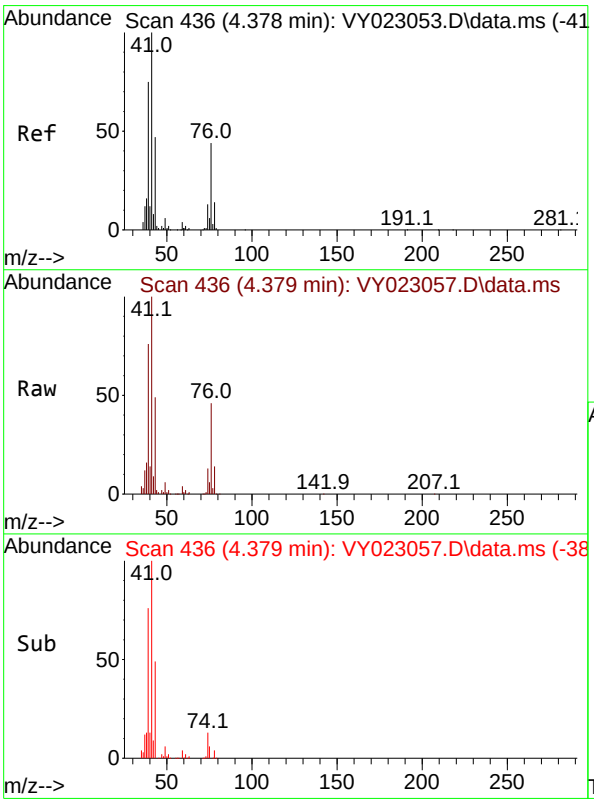
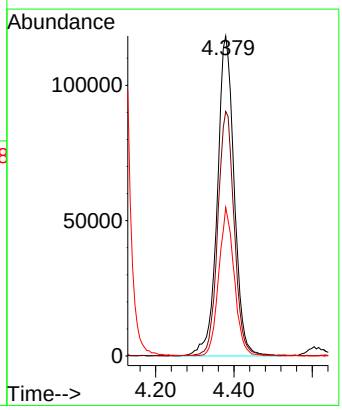
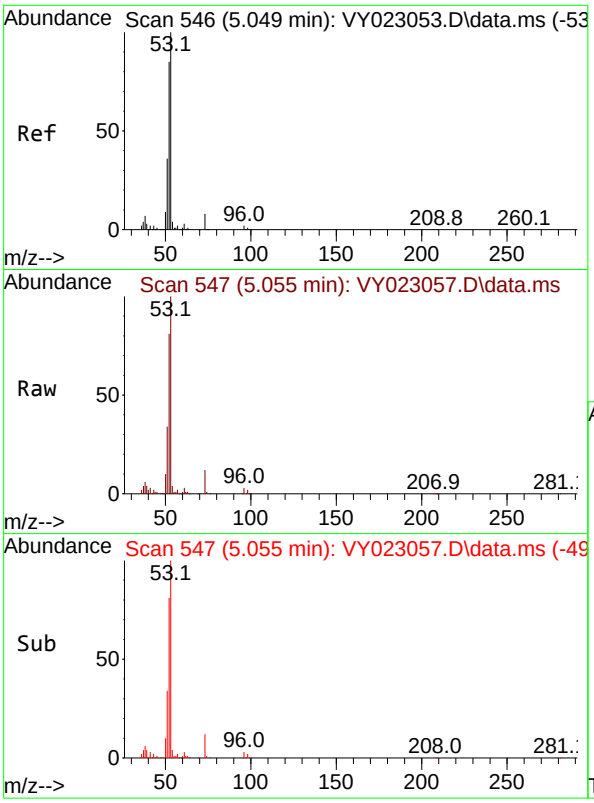



#14
Allyl chloride
Concen: 47.317 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 41 Resp: 354691

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 74.2 | 59.8 | 89.6 |
| 76 | 42.7 | 33.7 | 50.5 |

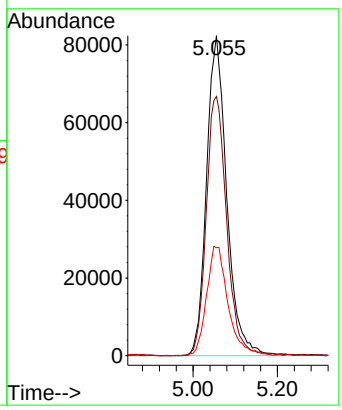





#15
Acrylonitrile
Concen: 242.779 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 53 Resp: 27432

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.1 | 65.3 | 97.9 |
| 51 | 36.5 | 29.5 | 44.3 |




**Instrument :**
MSVOA_Y
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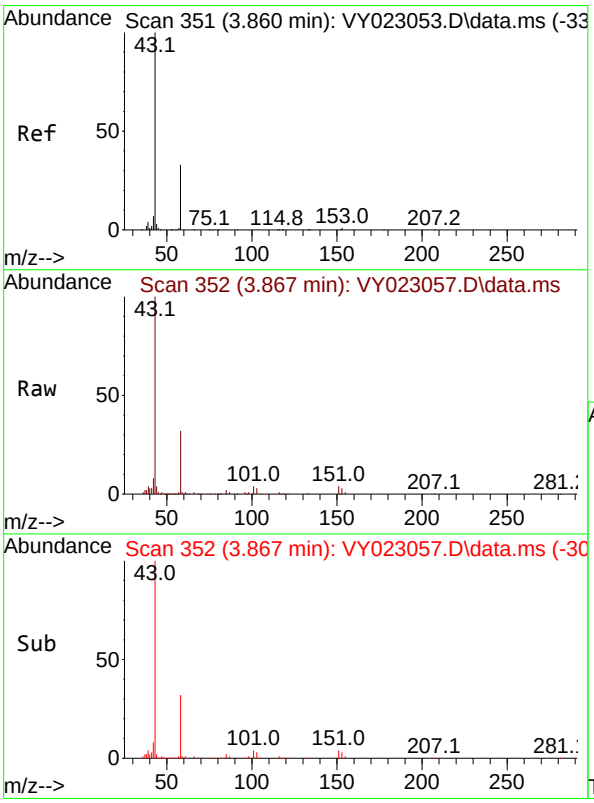
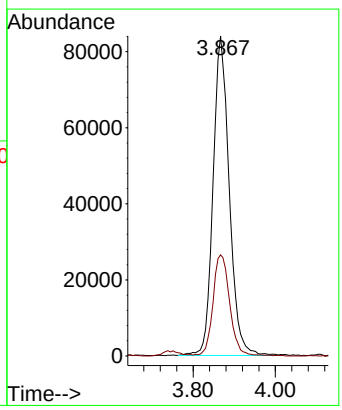
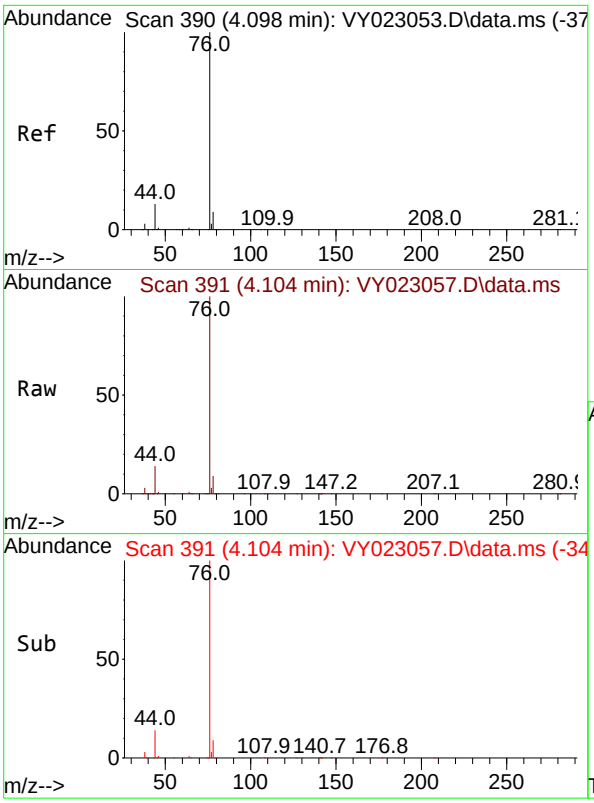



#16
Acetone
Concen: 210.695 ug/l
RT: 3.867 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 43 Resp: 229985

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.5 | 27.1 | 40.7 |

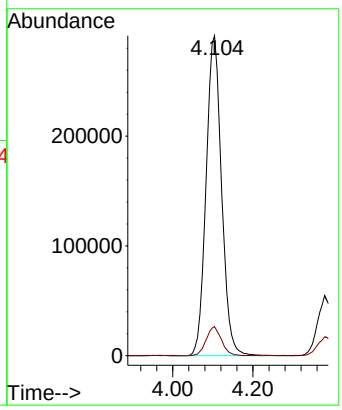





#17
Carbon Disulfide
Concen: 46.948 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 76 Resp: 77985

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.1 | 7.4 | 11.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

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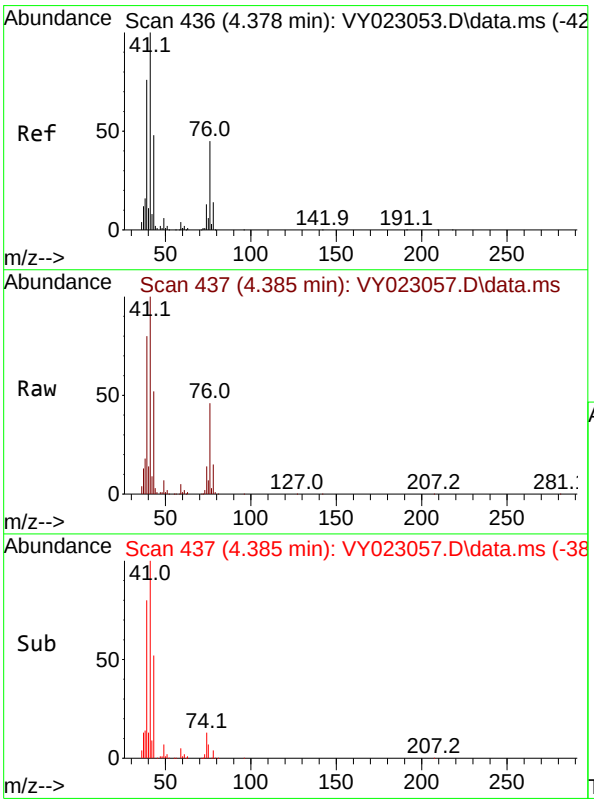
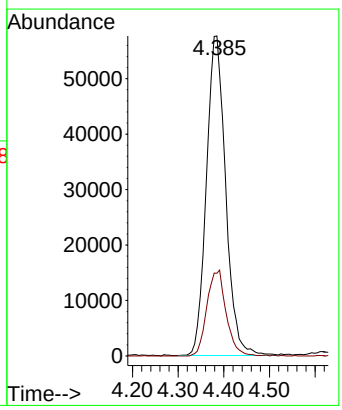
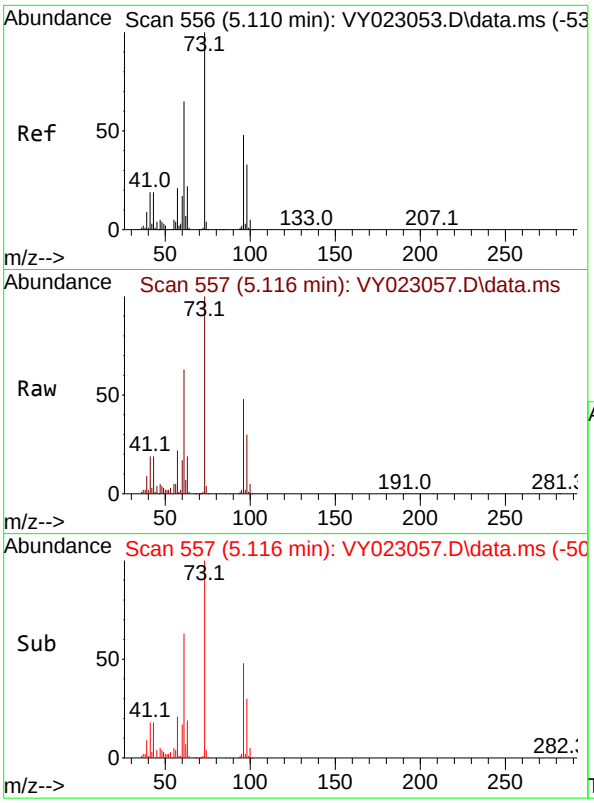



#18
Methyl Acetate
Concen: 51.972 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 43 Resp: 168821

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 26.8 | 21.2 | 31.8 |

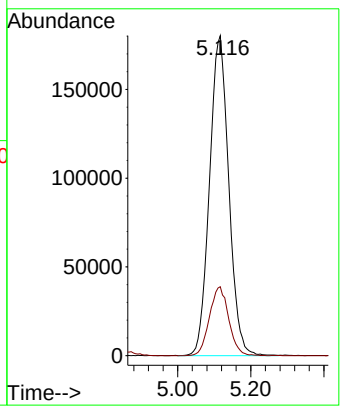





#19
Methyl tert-butyl Ether
Concen: 49.899 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 73 Resp: 65871

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.5 | 17.1 | 25.7 |




**Instrument :**
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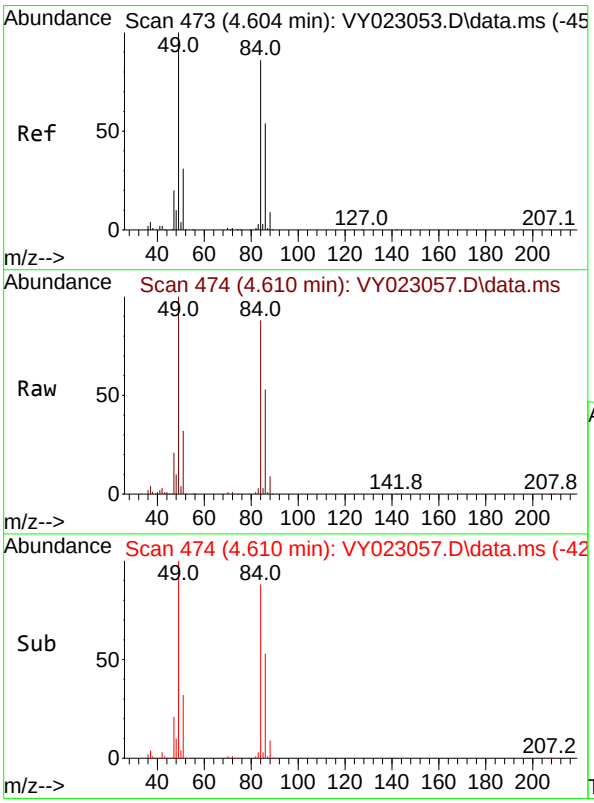
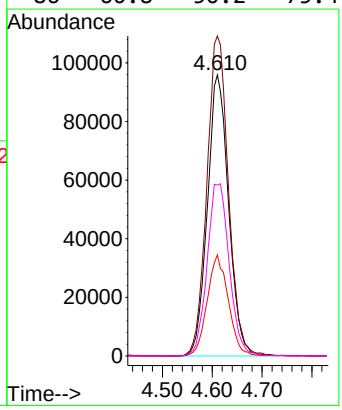
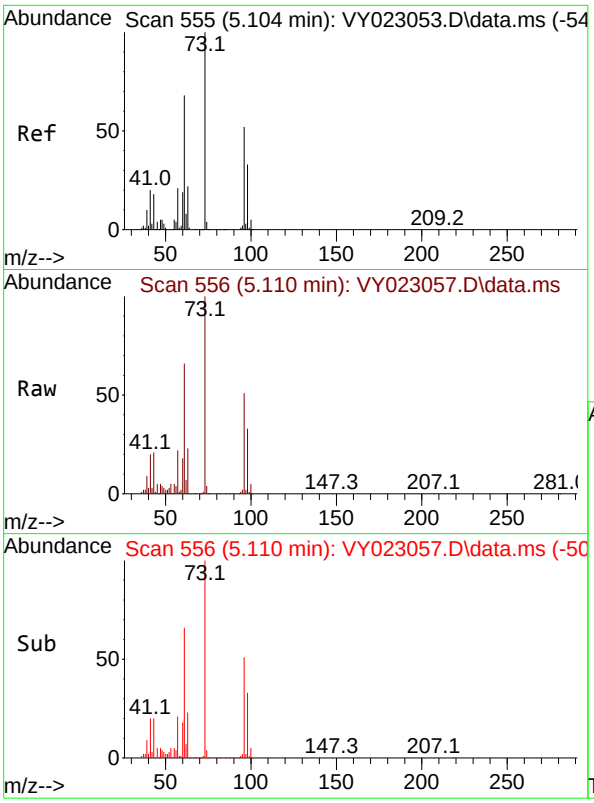



#20
Methylene Chloride
Concen: 49.960 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 84 Resp: 283386

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 113.8 | 93.0 | 139.6 |
| 51 | 36.0 | 29.0 | 43.4 |
| 86 | 60.8 | 50.2 | 75.4 |

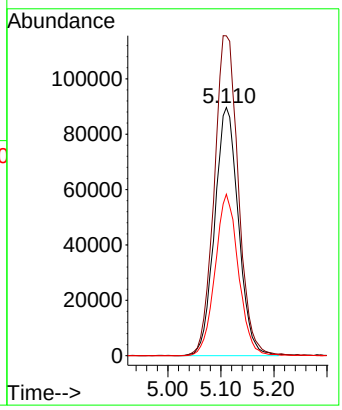





#21
trans-1,2-Dichloroethene
Concen: 48.765 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 96 Resp: 27918

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 128.9 | 104.8 | 157.2 |
| 98 | 65.0 | 50.1 | 75.1 |




**Instrument :**
MSVOA_Y
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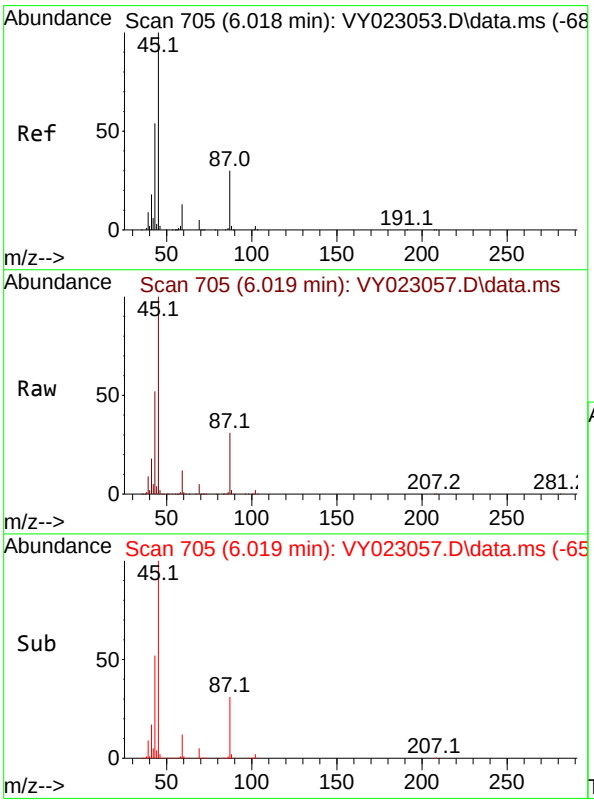
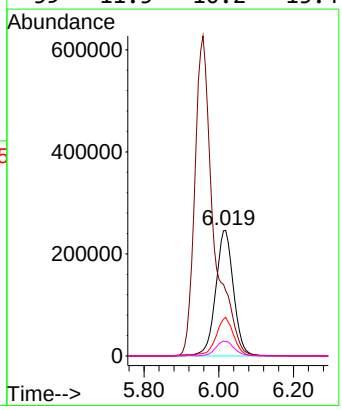
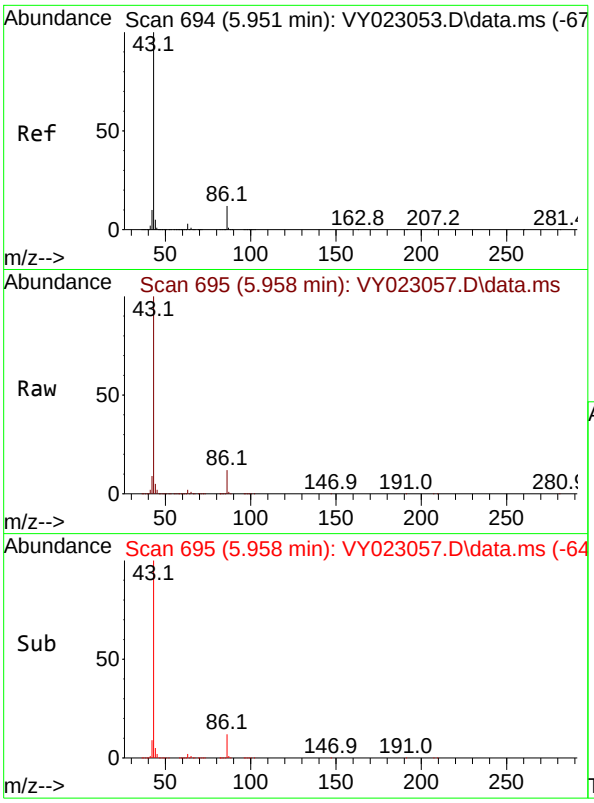



#22
Diisopropyl ether
Concen: 50.011 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 45 Resp: 814622

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 51.7 | 43.4 | 65.0 |
| 87 | 30.8 | 24.4 | 36.6 |
| 59 | 11.5 | 10.2 | 15.4 |

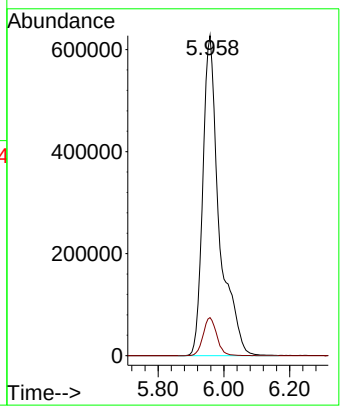





#23
Vinyl Acetate
Concen: 242.360 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 43 Resp: 218292

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.9 | 9.6 | 14.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

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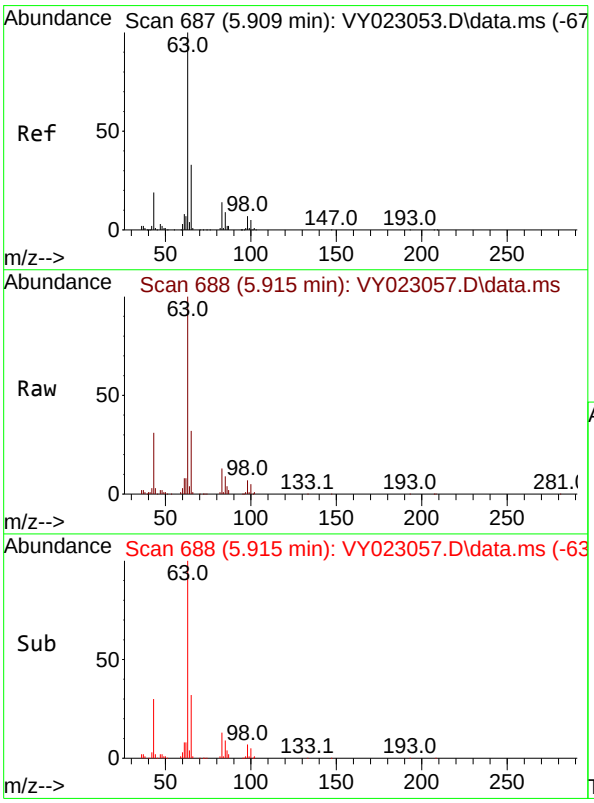
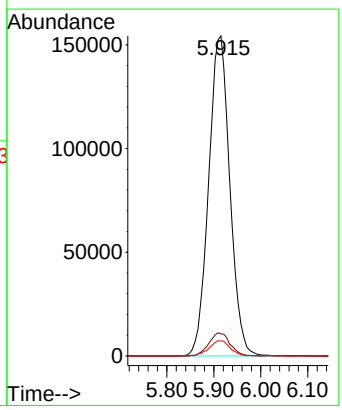
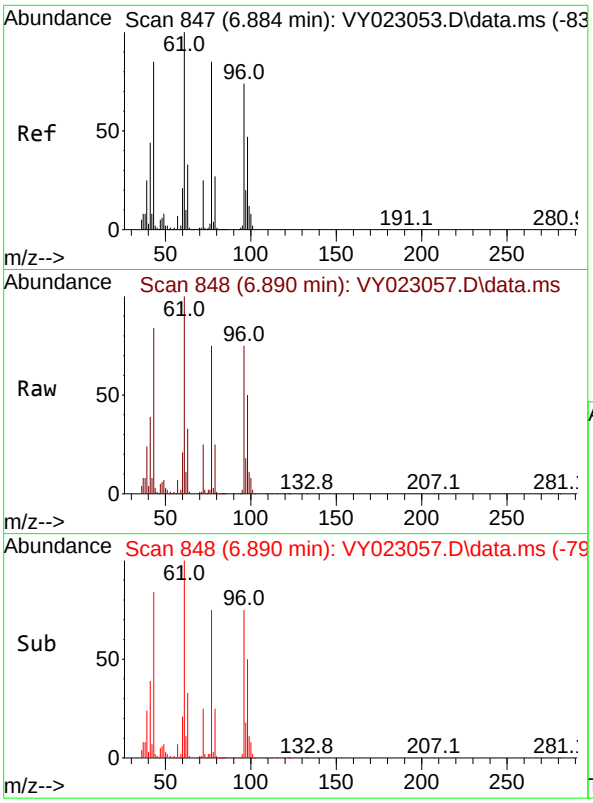



#24
1,1-Dichloroethane
Concen: 48.551 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 63 Resp: 483509

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.9 | 3.5 | 10.6 |
| 100 | 4.7 | 2.4 | 7.1 |






#25
2-Butanone
Concen: 230.028 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

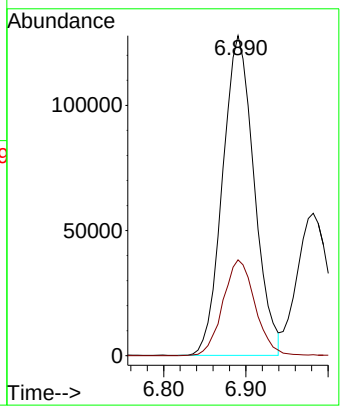
Tgt Ion: 43 Resp: 34149

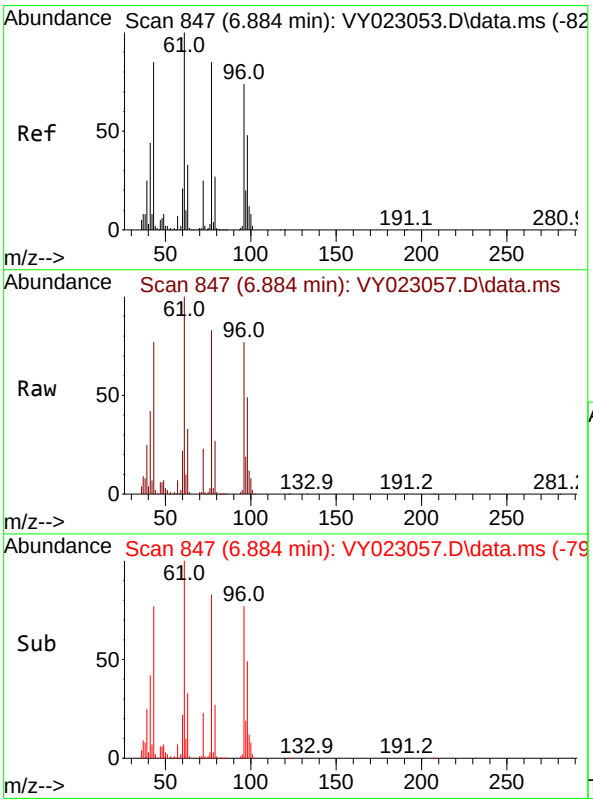
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 30.0 | 23.5 | 35.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

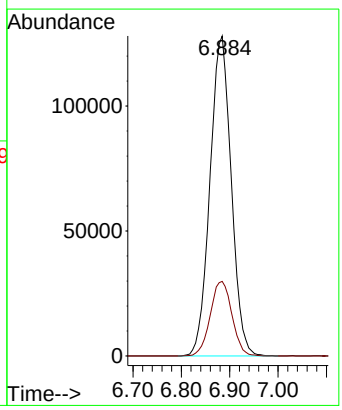


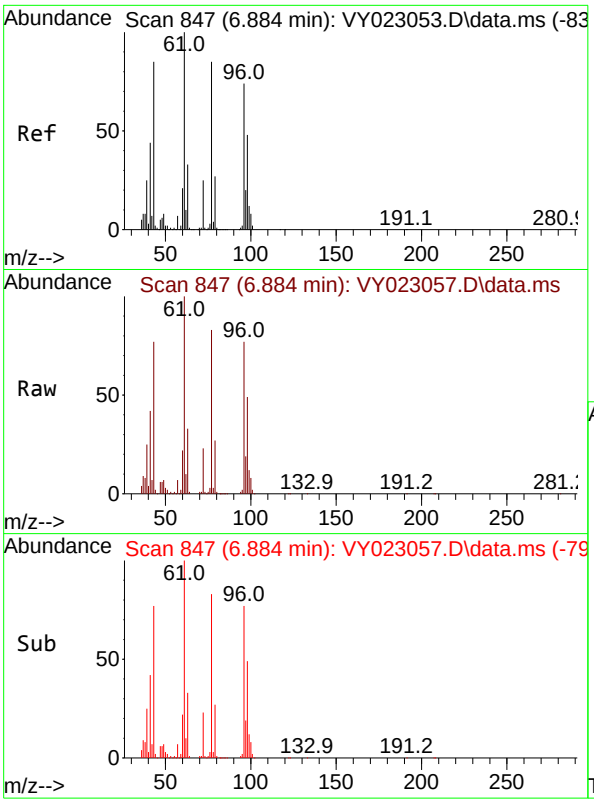




#26
2,2-Dichloropropane
Concen: 45.475 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 77 Resp: 390777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.8 | 11.6 | 34.8 |






#27
cis-1,2-Dichloroethene
Concen: 48.720 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 96 Resp: 32245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 136.9 | 0.0 | 278.6 |
| 98 | 65.0 | 0.0 | 130.4 |

**Instrument :**
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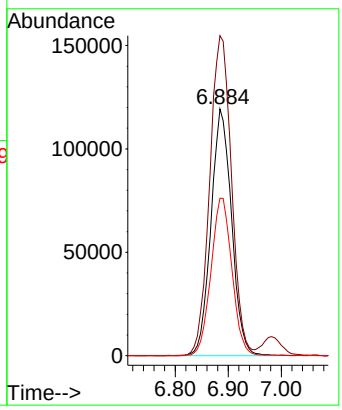
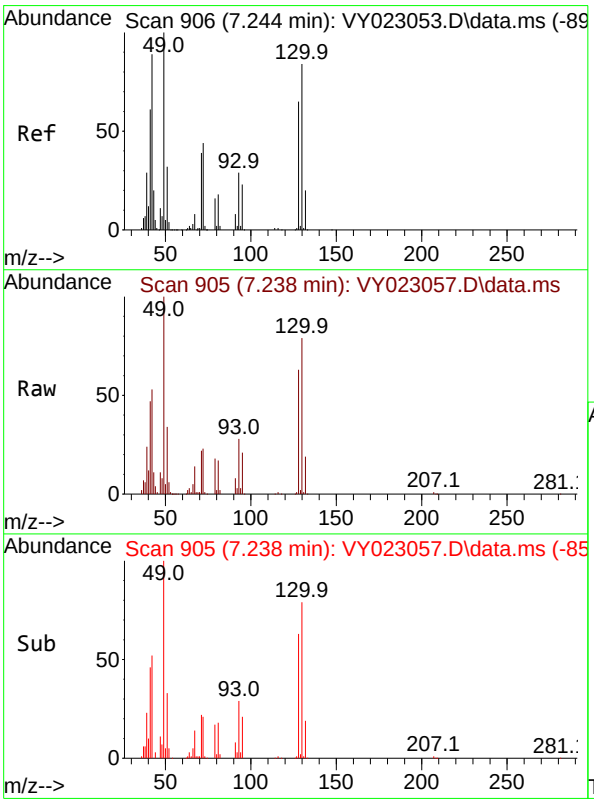
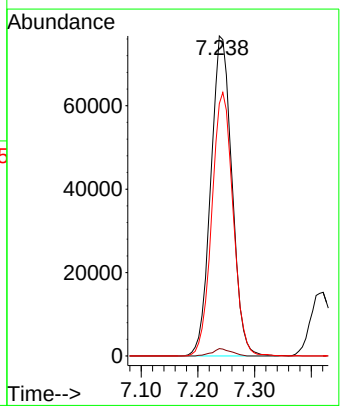


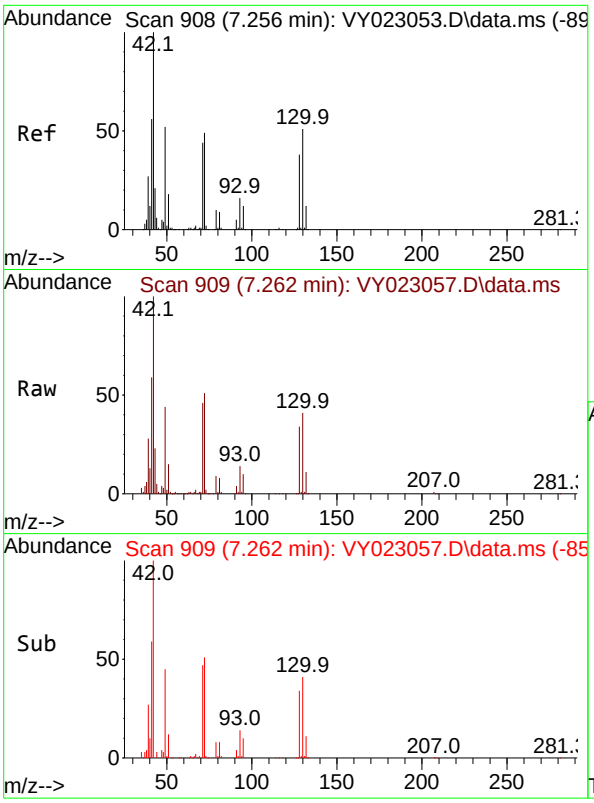




#28
Bromochloromethane
Concen: 50.275 ug/l
RT: 7.238 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 49 Resp: 198640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.1 | 0.0 | 4.2 |
| 130 | 82.6 | 66.4 | 99.6 |

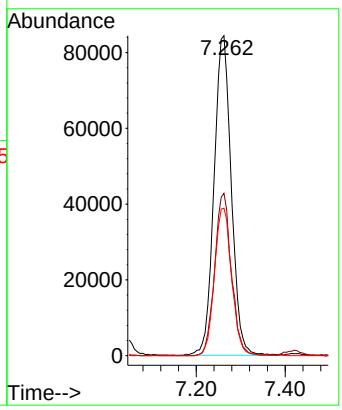





#29
Tetrahydrofuran
Concen: 247.420 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 42 Resp: 22768

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 49.3 | 39.4 | 59.2 |
| 71 | 45.7 | 36.5 | 54.7 |




**Instrument :**
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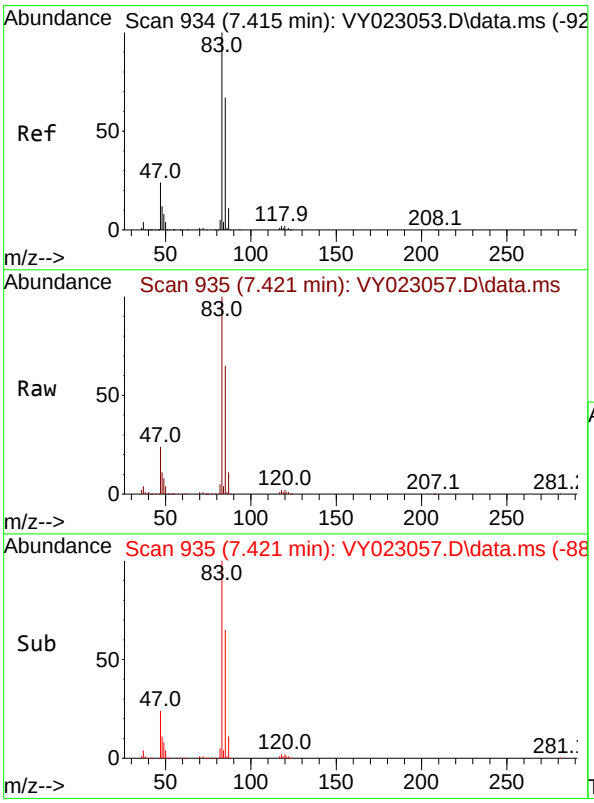
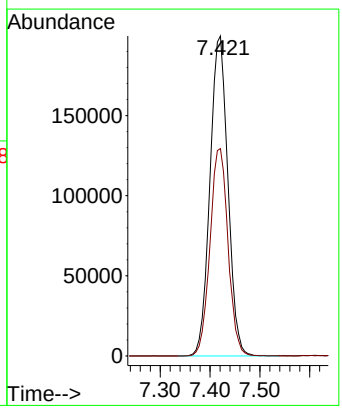
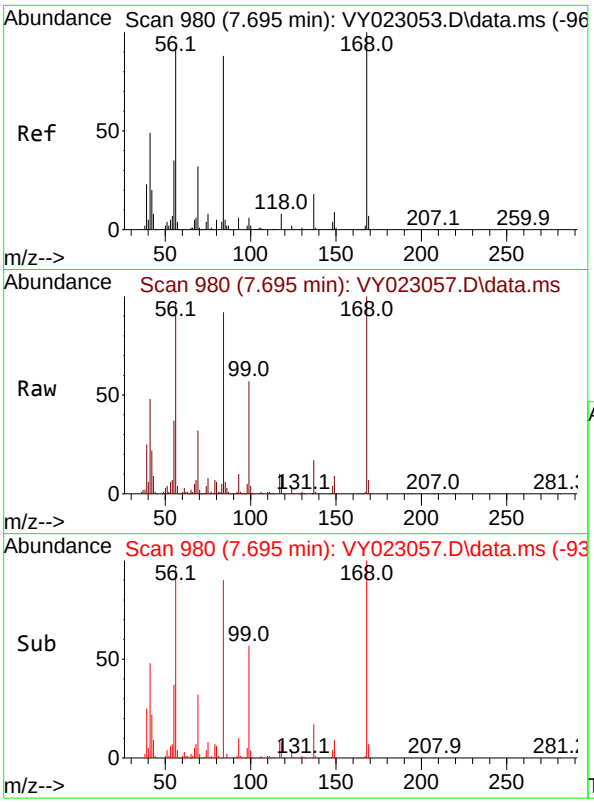



#30
Chloroform
Concen: 48.450 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 83 Resp: 497627

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.8 | 53.8 | 80.8 |

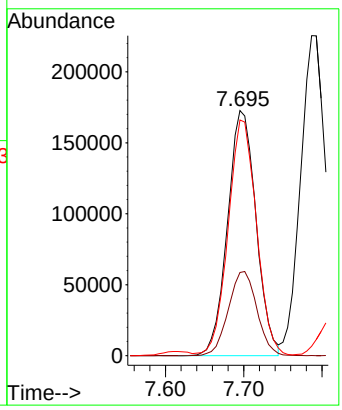





#31
Cyclohexane
Concen: 46.526 ug/l
RT: 7.695 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 56 Resp: 43663

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 33.9 | 28.2 | 42.2 |
| 84 | 94.5 | 76.6 | 114.8 |




**Instrument :**
MSVOA_Y
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ICVVY081225

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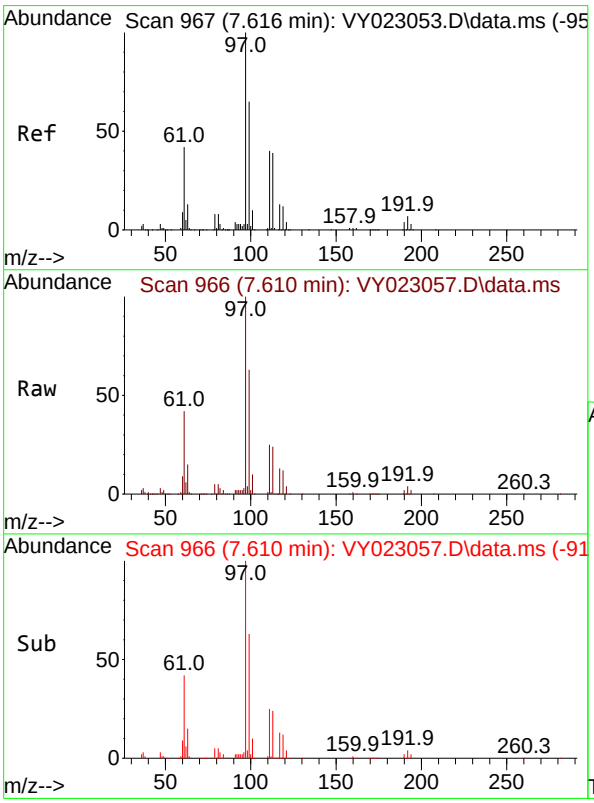
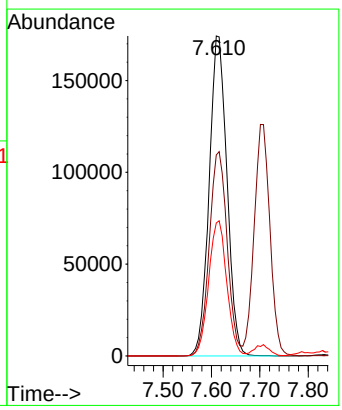
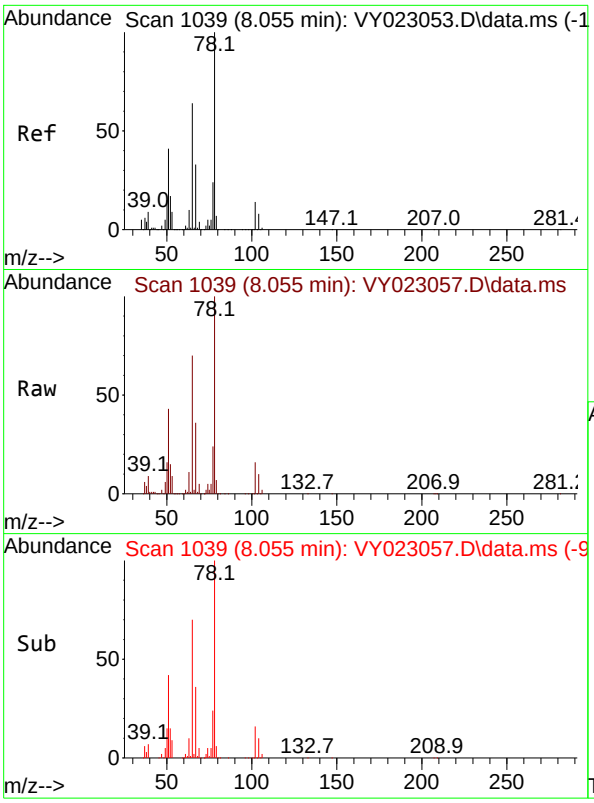



#32
1,1,1-Trichloroethane
Concen: 48.933 ug/l
RT: 7.610 min Scan# 966
Delta R.T. -0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 97 Resp: 445943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.6 | 51.6 | 77.4 |
| 61 | 43.0 | 34.2 | 51.2 |

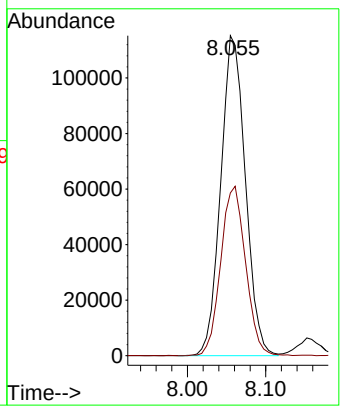





#33
1,2-Dichloroethane-d4
Concen: 50.038 ug/l
RT: 8.055 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 65 Resp: 25211

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.4 | 0.0 | 106.8 |

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MSVOA_Y
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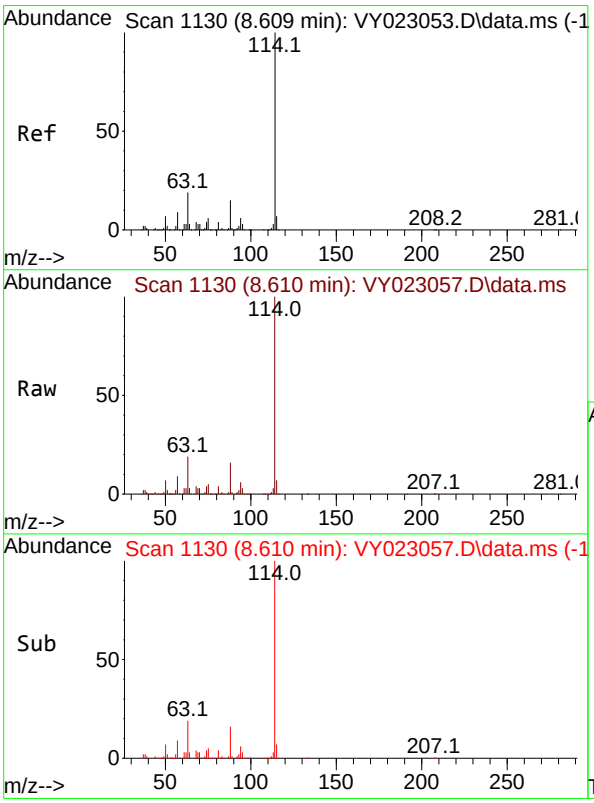
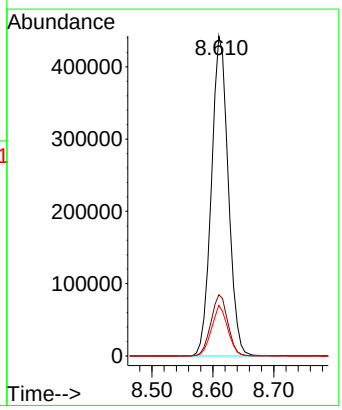
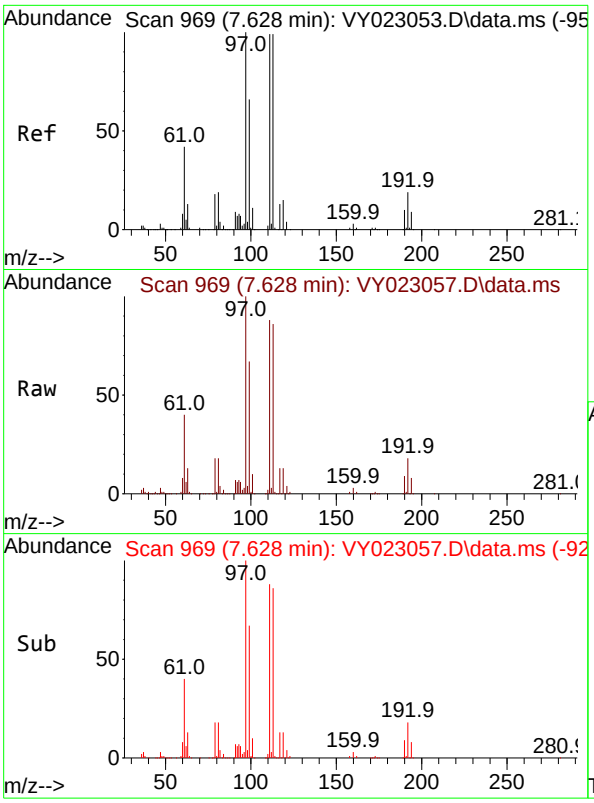



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:114 Resp: 849851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.2 | 0.0 | 38.4 |
| 88 | 15.9 | 0.0 | 30.0 |

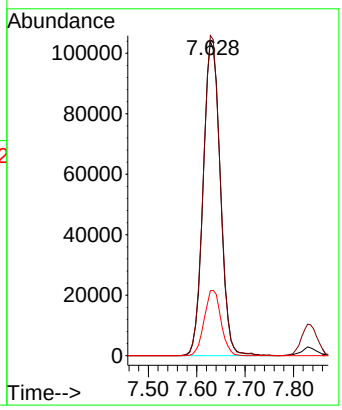





#35
Dibromofluoromethane
Concen: 50.179 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:113 Resp: 25517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.3 | 81.1 | 121.7 |
| 192 | 20.4 | 16.2 | 24.4 |

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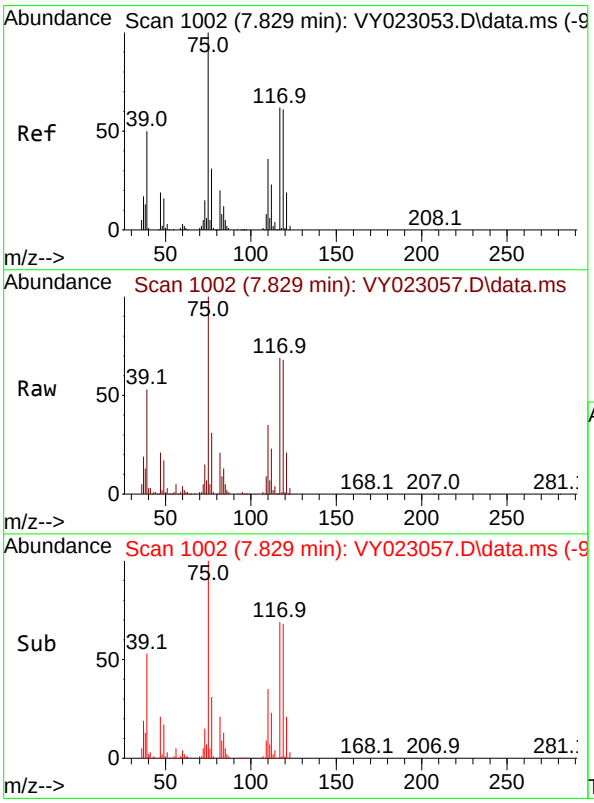
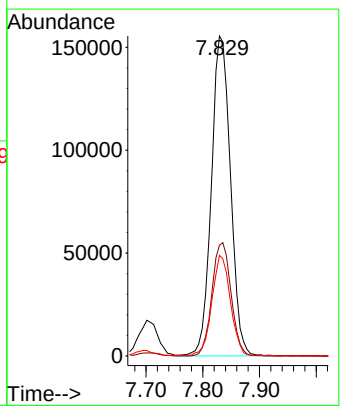
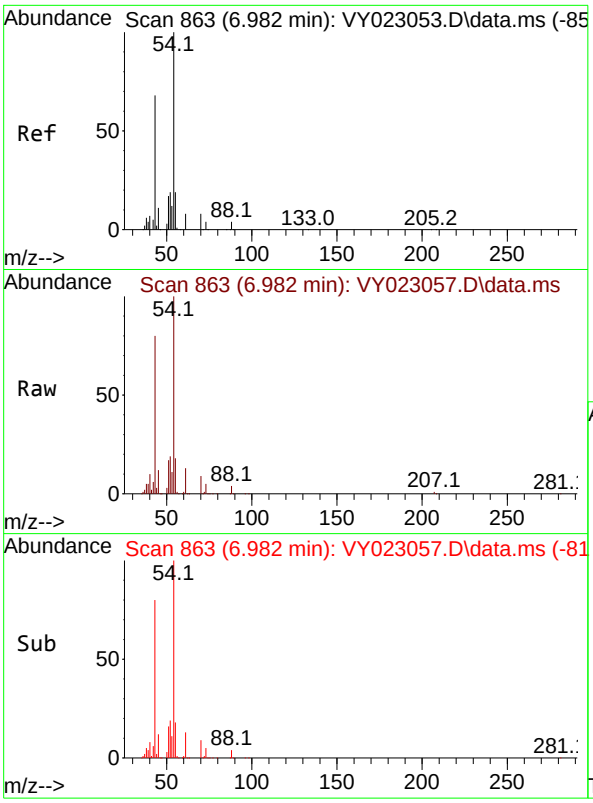



#36
1,1-Dichloropropene
Concen: 48.193 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 75 Resp: 364210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.4 | 18.1 | 54.4 |
| 77 | 30.6 | 24.6 | 37.0 |






#37
Ethyl Acetate
Concen: 49.621 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 43 Resp: 15753

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.4 | 11.9 | 17.9 |
| 70 | 10.7 | 8.8 | 13.2 |

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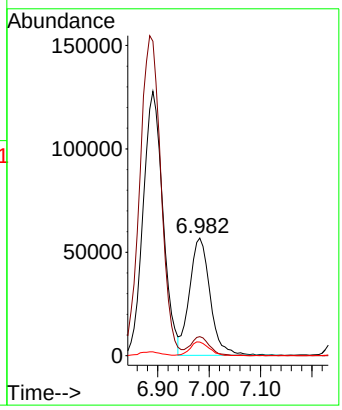
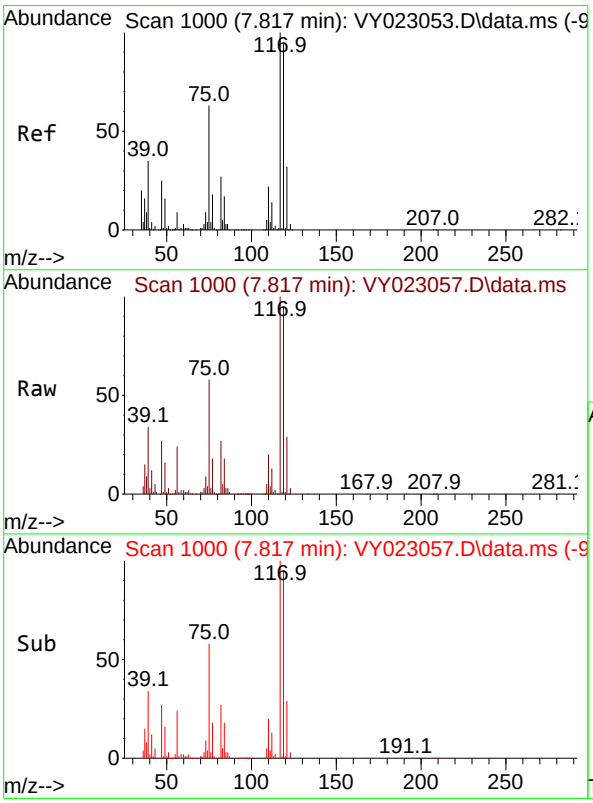
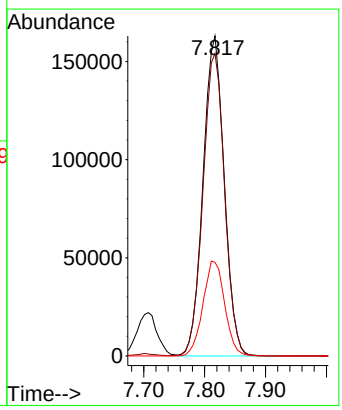


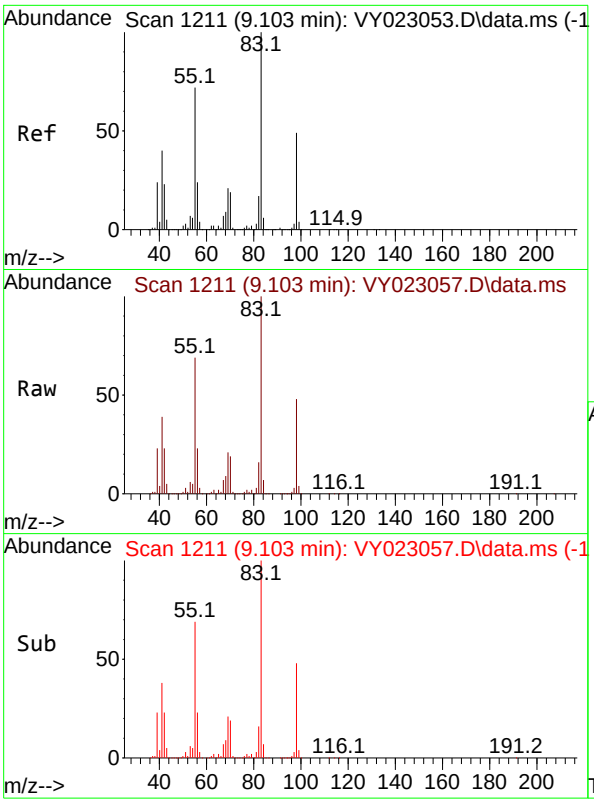




#38
Carbon Tetrachloride
Concen: 48.030 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:117 Resp: 394245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.5 | 75.6 | 113.4 |
| 121 | 29.2 | 25.8 | 38.8 |

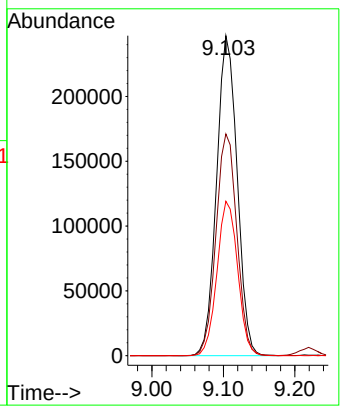





#39
Methylcyclohexane
Concen: 49.625 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 83 Resp: 49386

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 69.3 | 57.6 | 86.4 |
| 98 | 48.2 | 39.2 | 58.8 |

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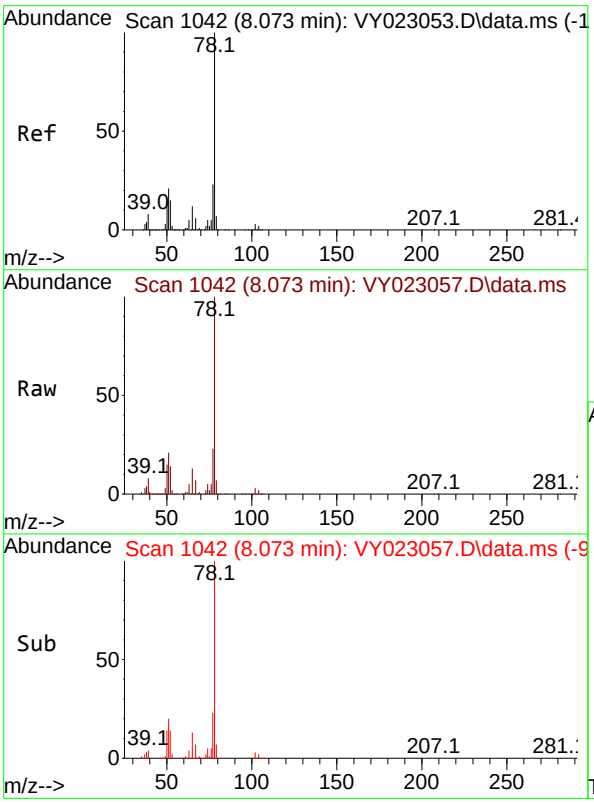
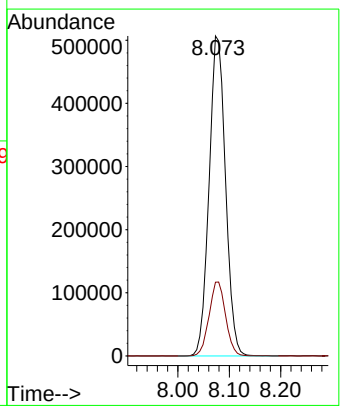
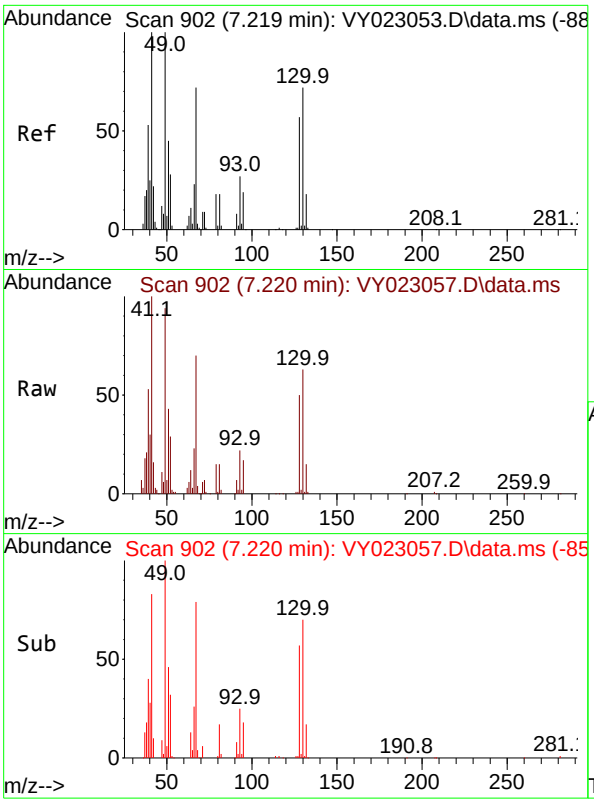



#40
Benzene
Concen: 48.428 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 78 Resp: 1128023

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.1 | 18.6 | 28.0 |

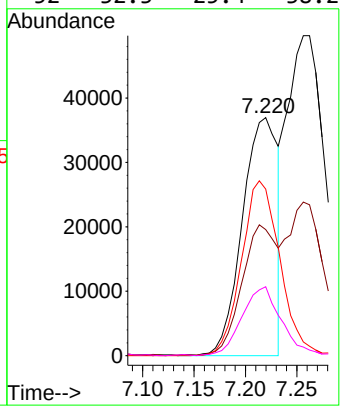





#41
Methacrylonitrile
Concen: 48.269 ug/l
RT: 7.220 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 41 Resp: 8843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 53.9 | 43.4 | 65.2 |
| 67 | 80.6 | 63.6 | 95.4 |
| 52 | 32.3 | 25.4 | 38.2 |

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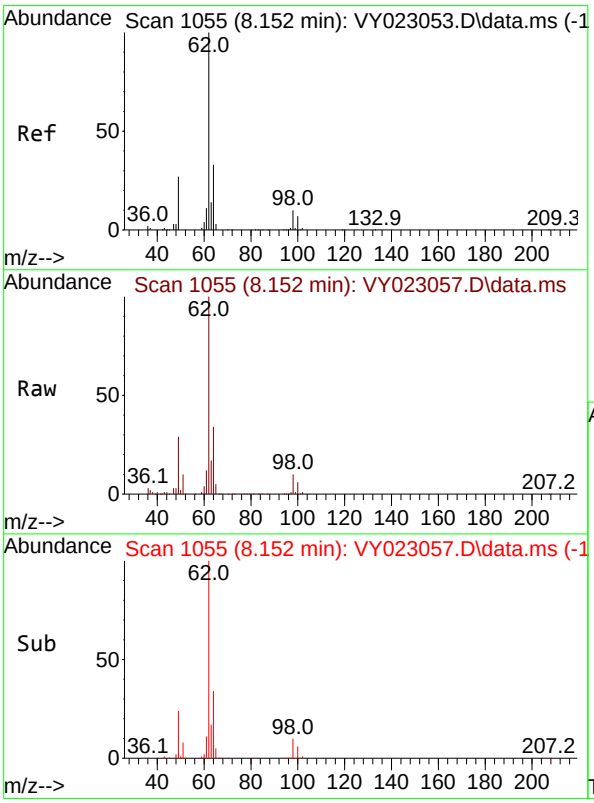
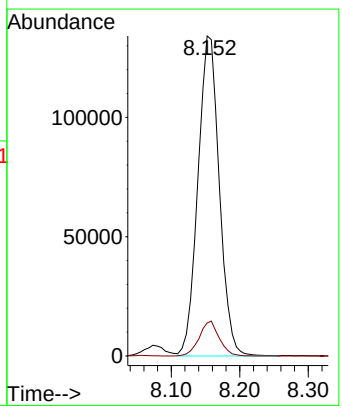
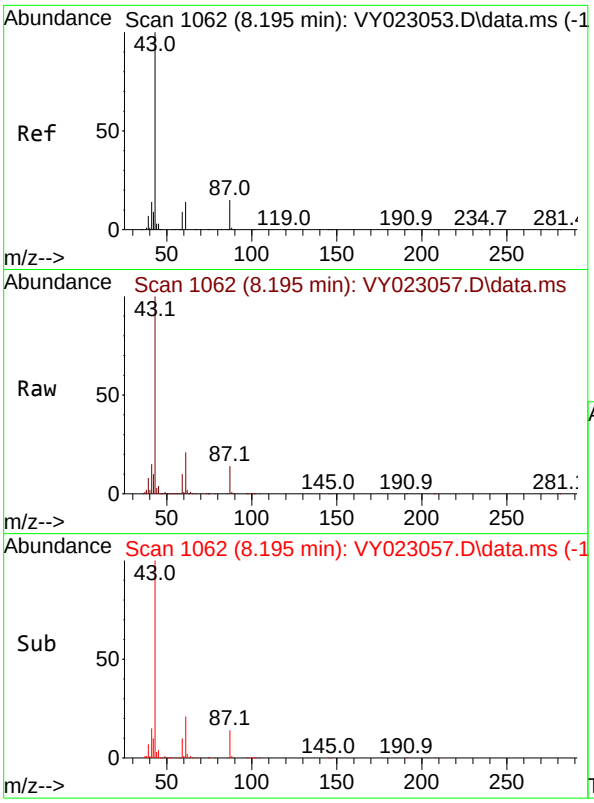



#42
1,2-Dichloroethane
Concen: 48.162 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 62 Resp: 291766

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.1 | 0.0 | 20.6 |

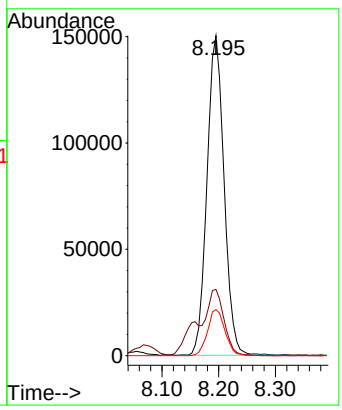





#43
Isopropyl Acetate
Concen: 49.094 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 43 Resp: 3150

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 22.0 | 16.4 | 24.6 |
| 87 | 14.7 | 11.8 | 17.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

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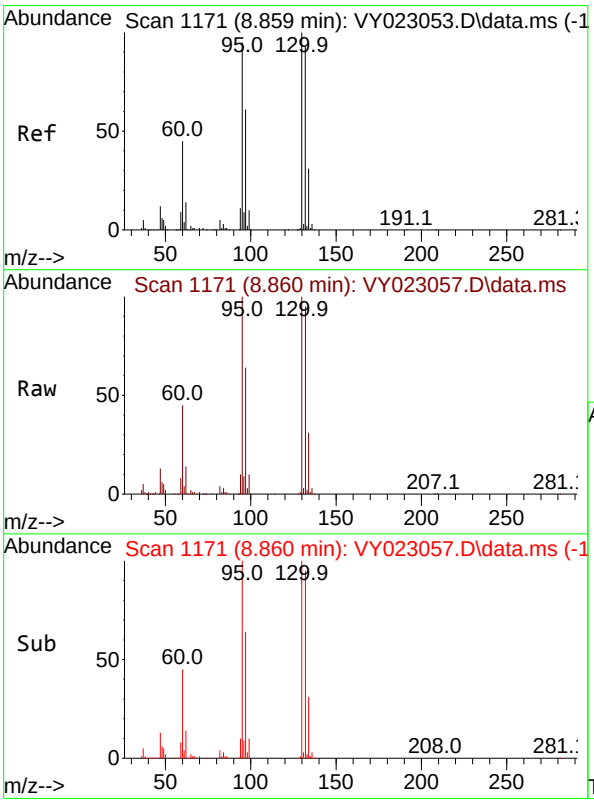
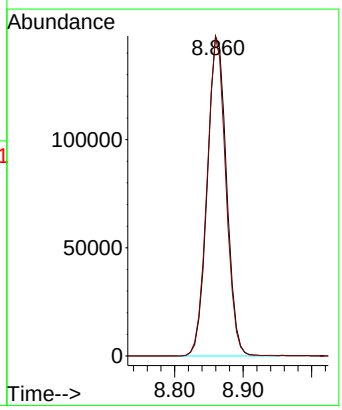
Supervised By :Semsettin Yesilyurt 08/14/2025

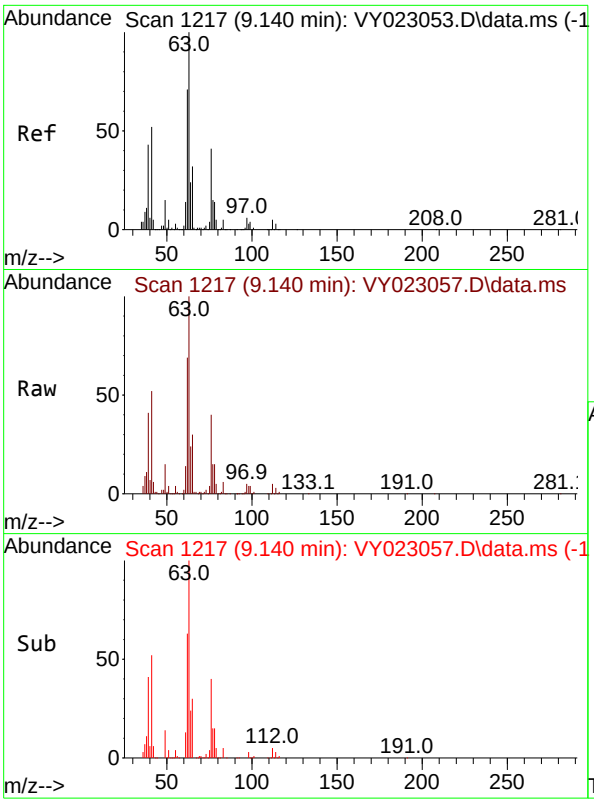



#44
Trichloroethene
Concen: 47.803 ug/l
RT: 8.860 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:130 Resp: 287745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 99.7 | 0.0 | 190.2 |

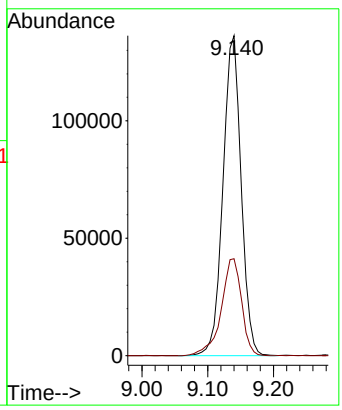





#45
1,2-Dichloropropane
Concen: 48.961 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 63 Resp: 26240

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.3 | 25.3 | 37.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

**Manual Integrations**
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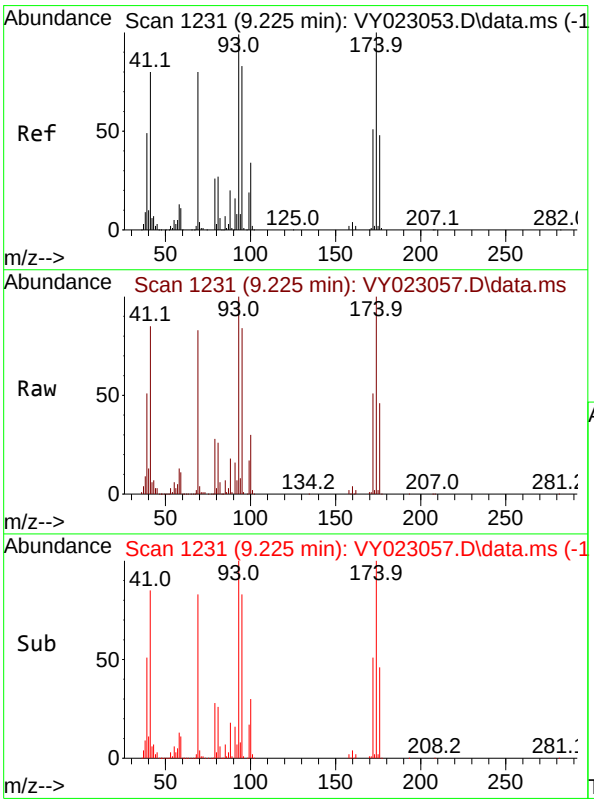
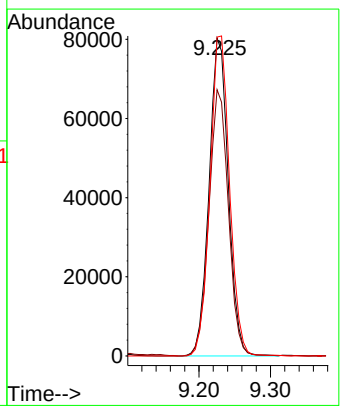
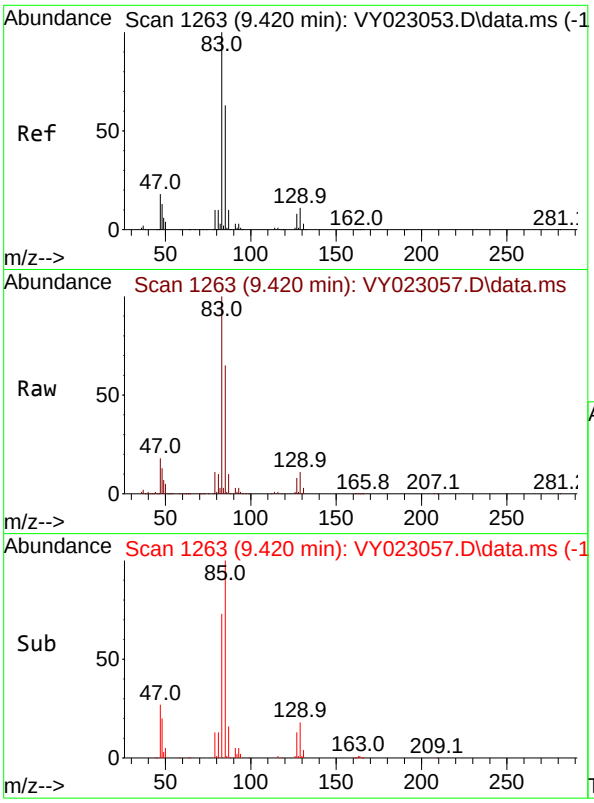



#46
Dibromomethane
Concen: 48.679 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 93 Resp: 149745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 84.9 | 66.5 | 99.7 |
| 174 | 102.5 | 81.8 | 122.8 |

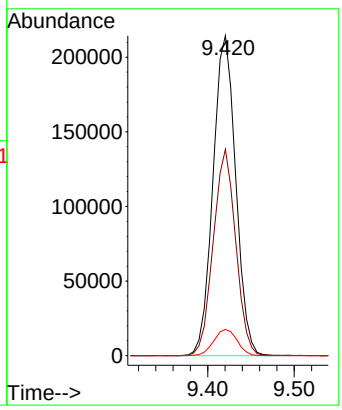





#47
Bromodichloromethane
Concen: 49.463 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 83 Resp: 39152

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.5 | 50.2 | 75.4 |
| 127 | 8.2 | 6.6 | 10.0 |




**Instrument :**
MSVOA_Y
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ICVVY081225

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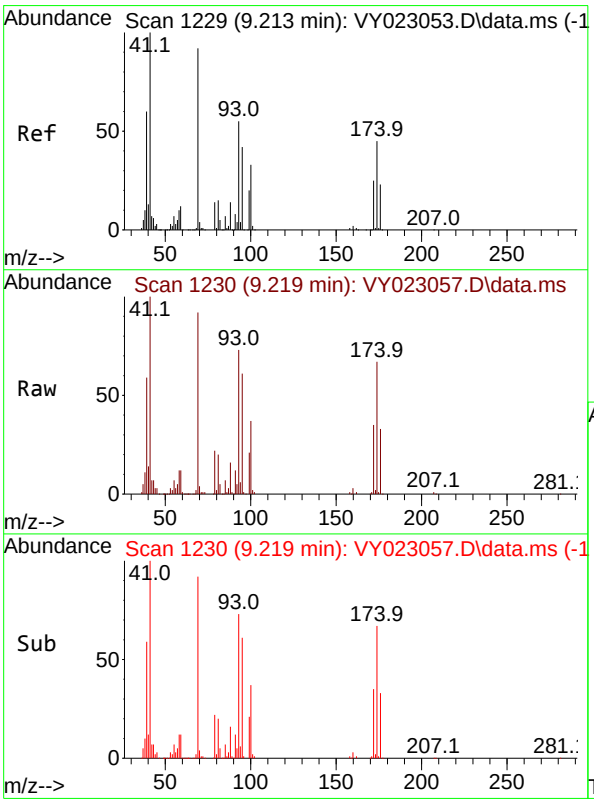
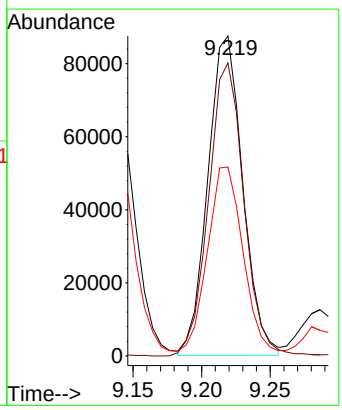
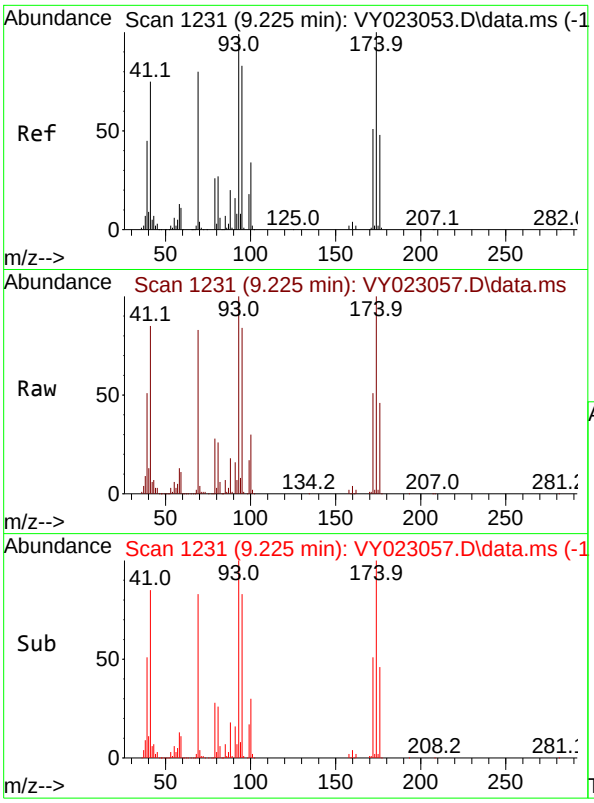



#48
Methyl methacrylate
Concen: 50.520 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 41 Resp: 155118

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 92.7 | 73.2 | 109.8 |
| 39 | 57.8 | 47.0 | 70.4 |

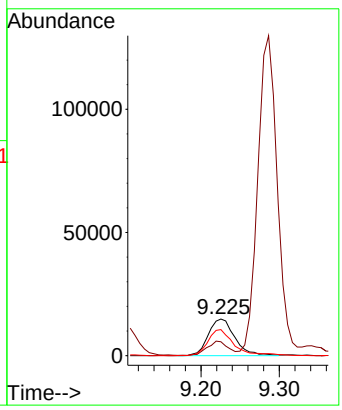





#49
1,4-Dioxane
Concen: 971.749 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 88 Resp: 3505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 30.2 | 24.3 | 36.5 |
| 58 | 70.9 | 55.4 | 83.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

**Manual Integrations**
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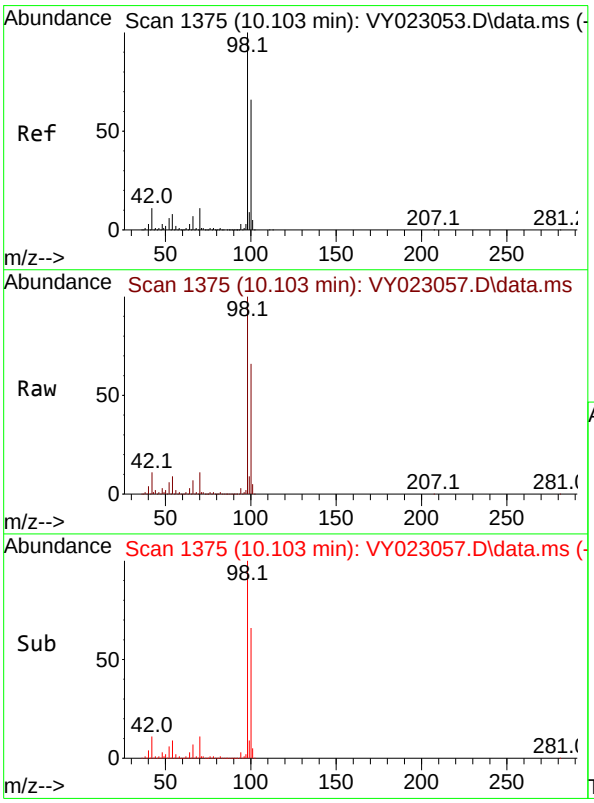
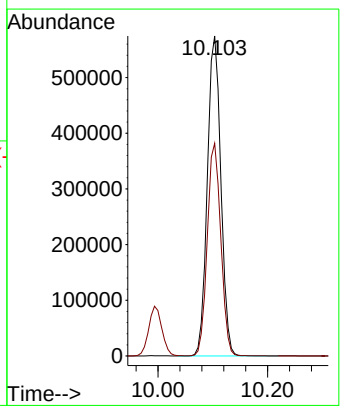
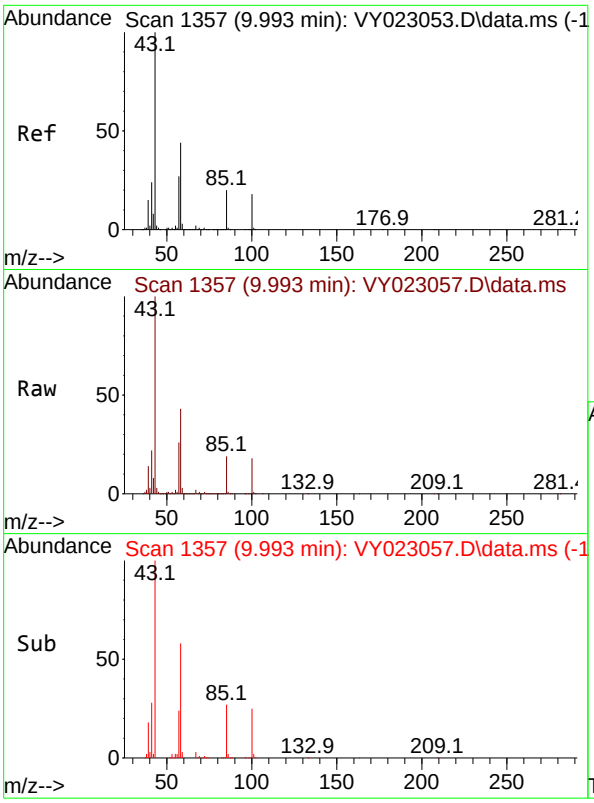



#50
Toluene-d8
Concen: 49.306 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 98 Resp: 979510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.4 | 52.3 | 78.5 |

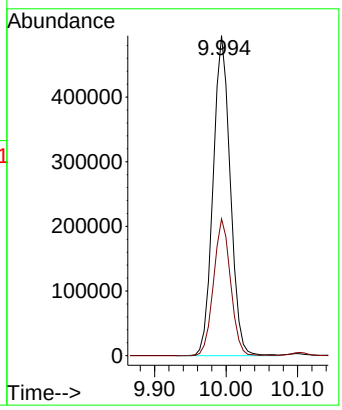





#51
4-Methyl-2-Pentanone
Concen: 248.943 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 43 Resp: 82394

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 42.3 | 33.5 | 50.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

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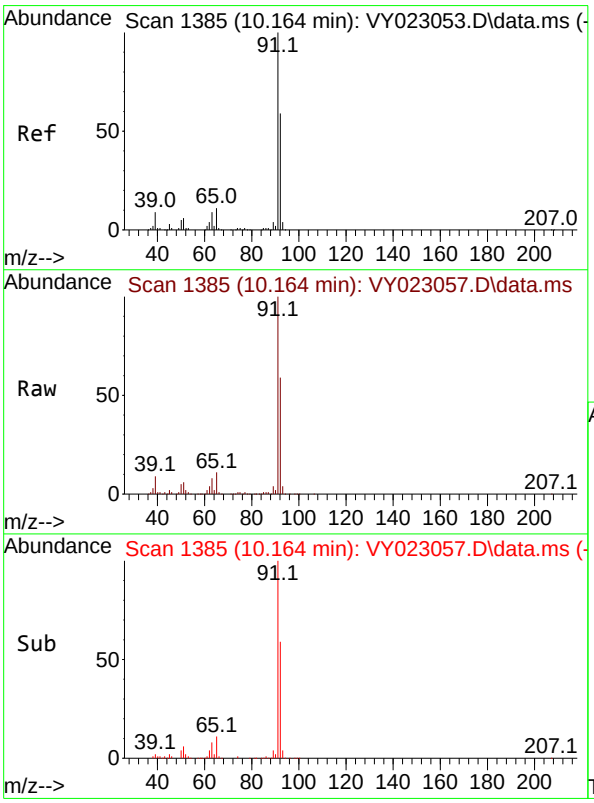
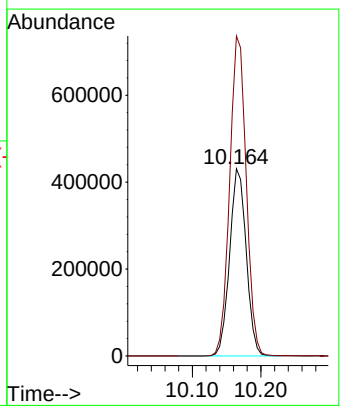
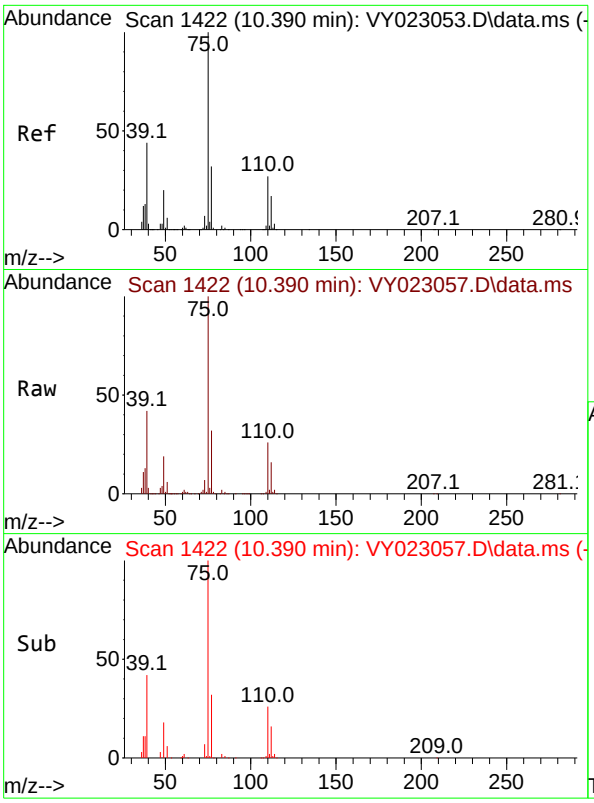



#52
Toluene
Concen: 48.963 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 92 Resp: 724356

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 171.1 | 136.4 | 204.6 |

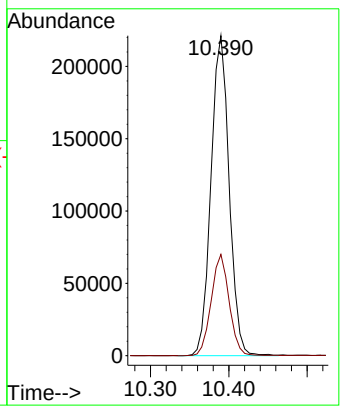





#53
t-1,3-Dichloropropene
Concen: 49.699 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 75 Resp: 35622

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.6 | 25.7 | 38.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

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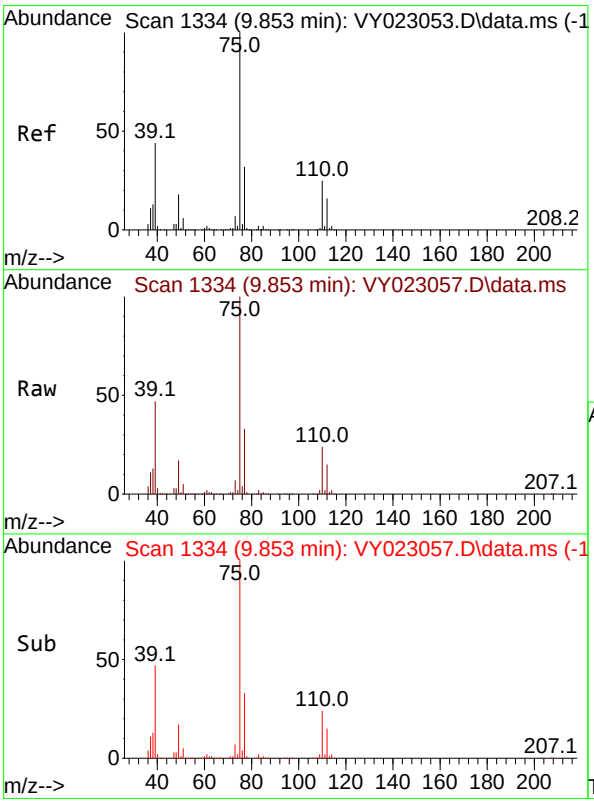
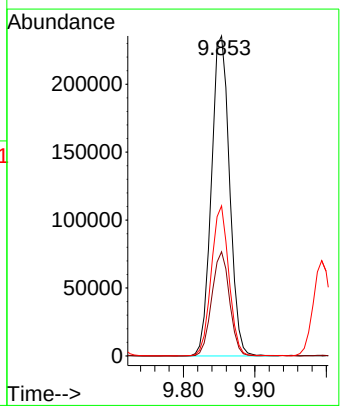
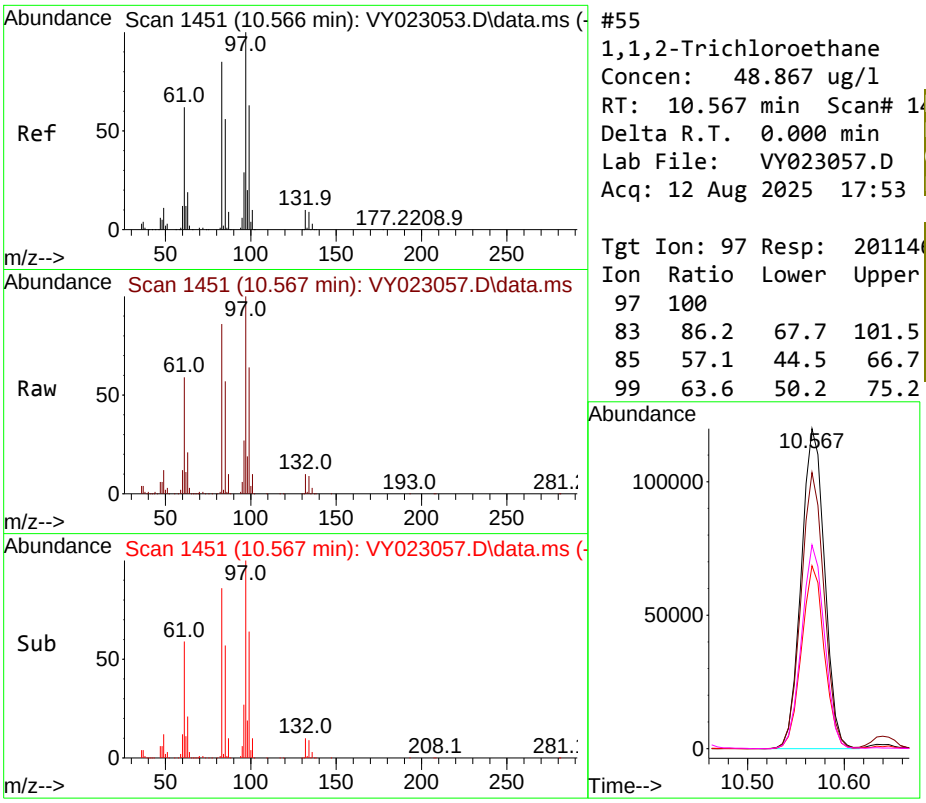



#54
cis-1,3-Dichloropropene
Concen: 48.965 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 75 Resp: 415017

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.5 | 25.4 | 38.0 |
| 39 | 46.8 | 35.6 | 53.4 |






#55
1,1,2-Trichloroethane
Concen: 48.867 ug/l
RT: 10.567 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 97 Resp: 20114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 86.2 | 67.7 | 101.5 |
| 85 | 57.1 | 44.5 | 66.7 |
| 99 | 63.6 | 50.2 | 75.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
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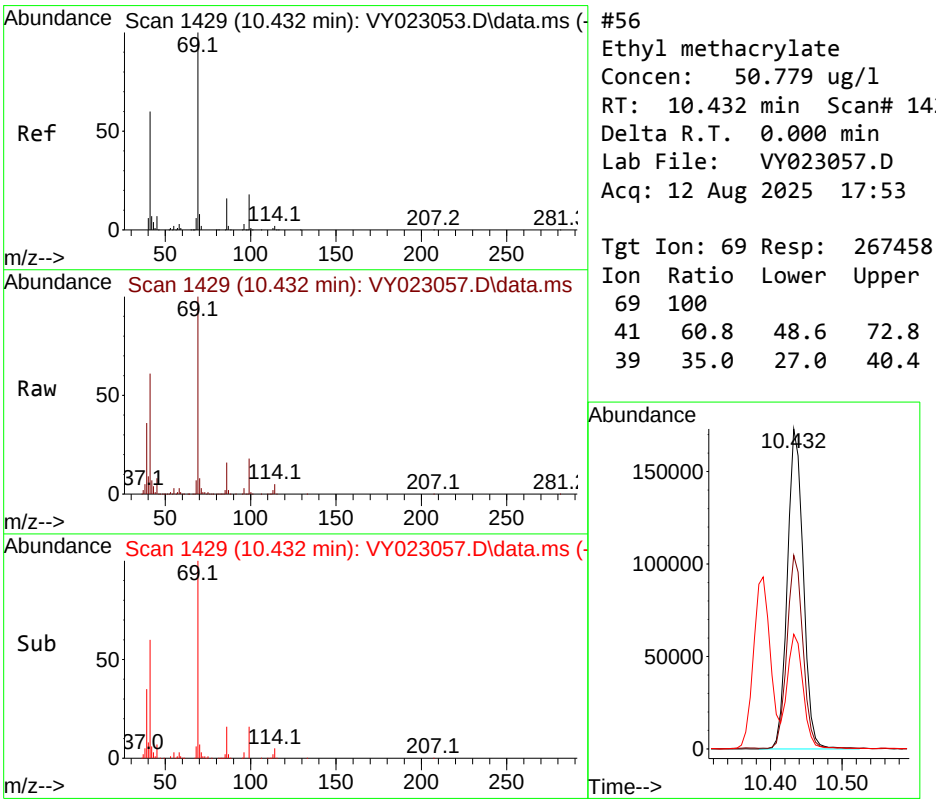
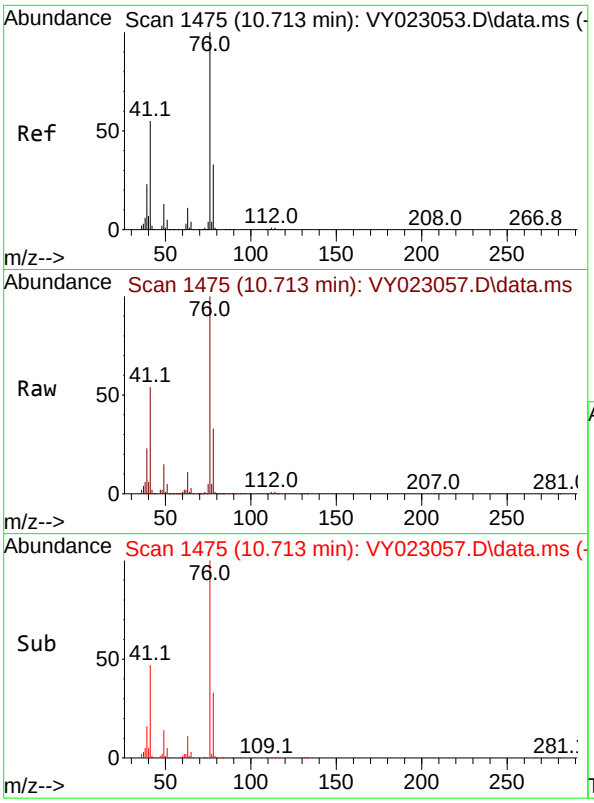



#56
Ethyl methacrylate
Concen: 50.779 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 69 Resp: 267458

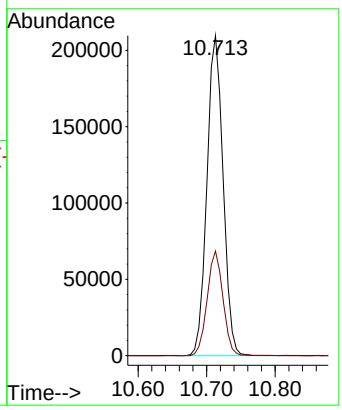
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 60.8 | 48.6 | 72.8 |
| 39 | 35.0 | 27.0 | 40.4 |




#57
1,3-Dichloropropane
Concen: 49.228 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 76 Resp: 34364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.0 | 26.0 | 39.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

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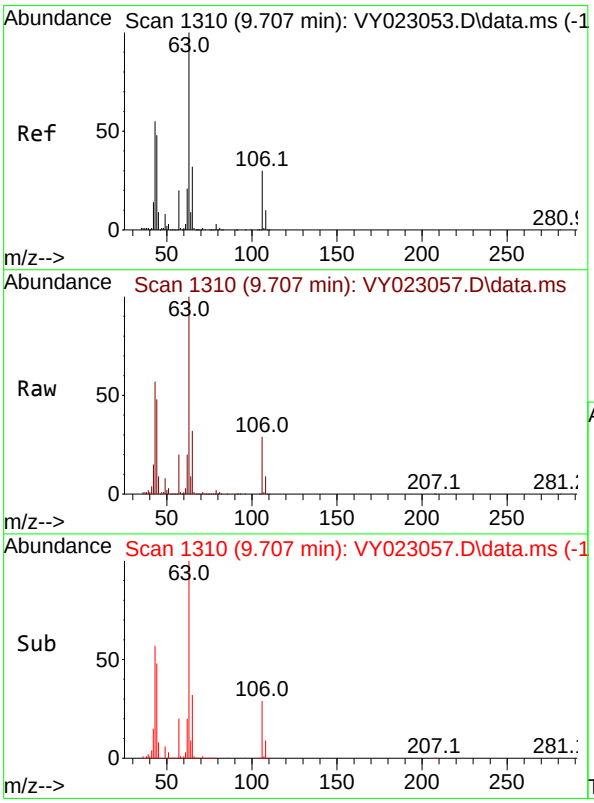
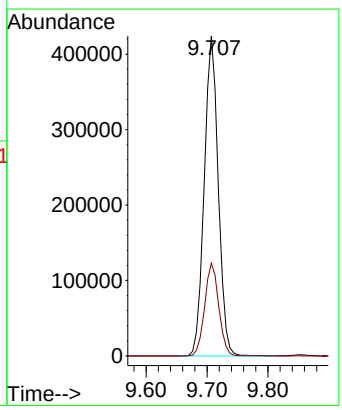
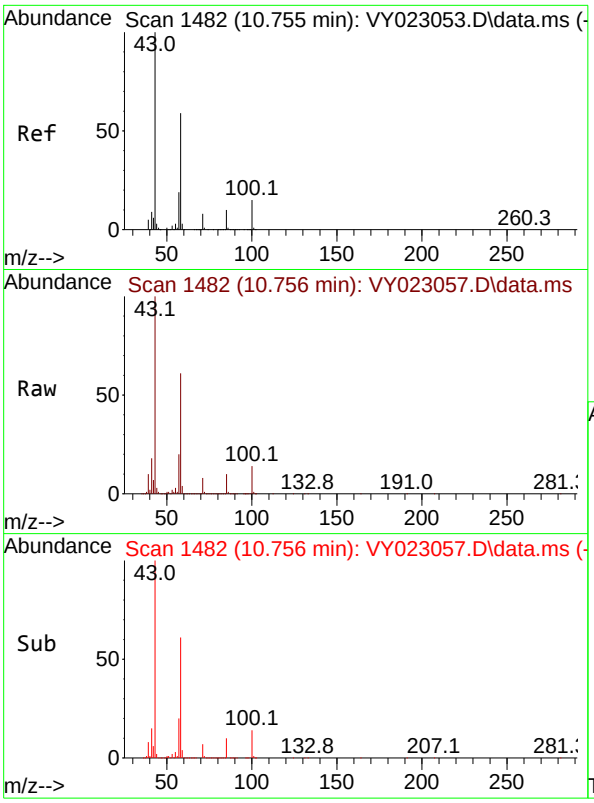



#58
2-Chloroethyl Vinyl ether
Concen: 273.240 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 63 Resp: 678865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 29.1 | 23.2 | 34.8 |






#59
2-Hexanone
Concen: 244.812 ug/l
RT: 10.756 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 43 Resp: 55174

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 59.5 | 29.5 | 88.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

**Manual Integrations**
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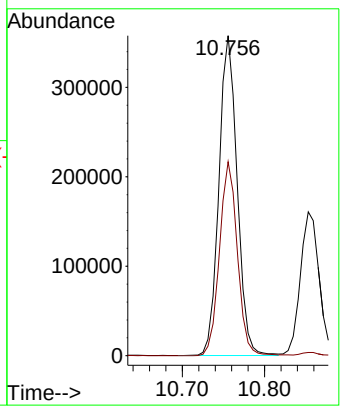
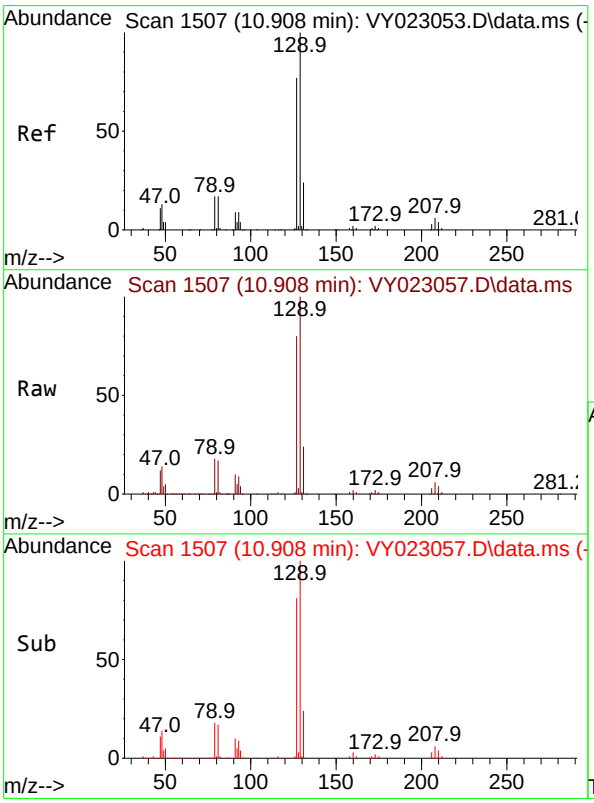
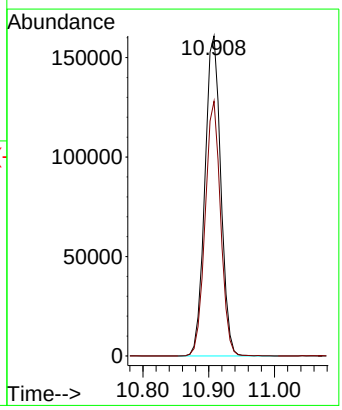


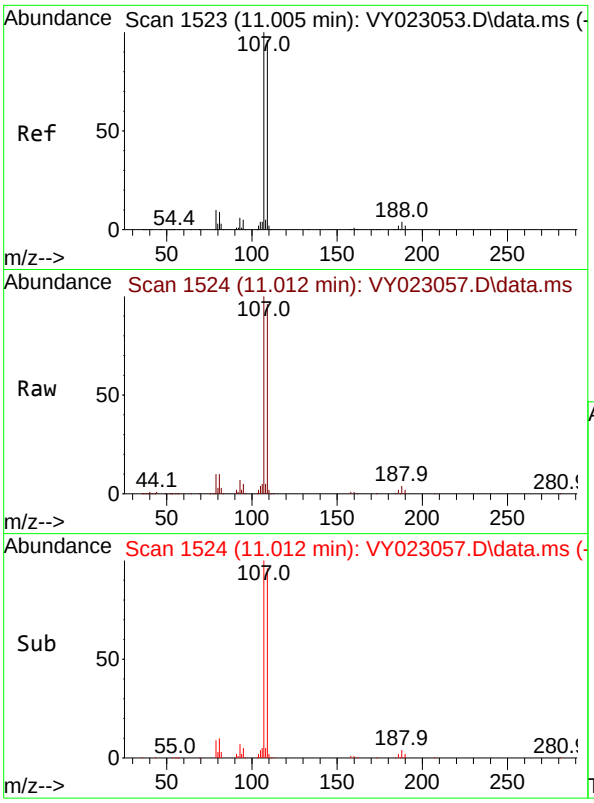




#60
Dibromochloromethane
Concen: 49.810 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:129 Resp: 270536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.5 | 38.5 | 115.5 |

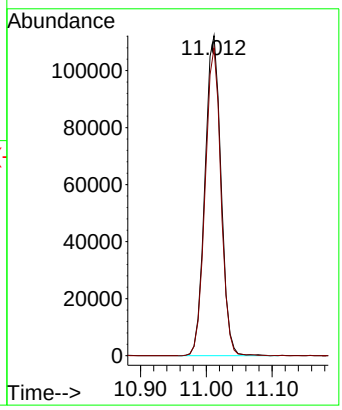





#61
1,2-Dibromoethane
Concen: 49.197 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:107 Resp: 19033

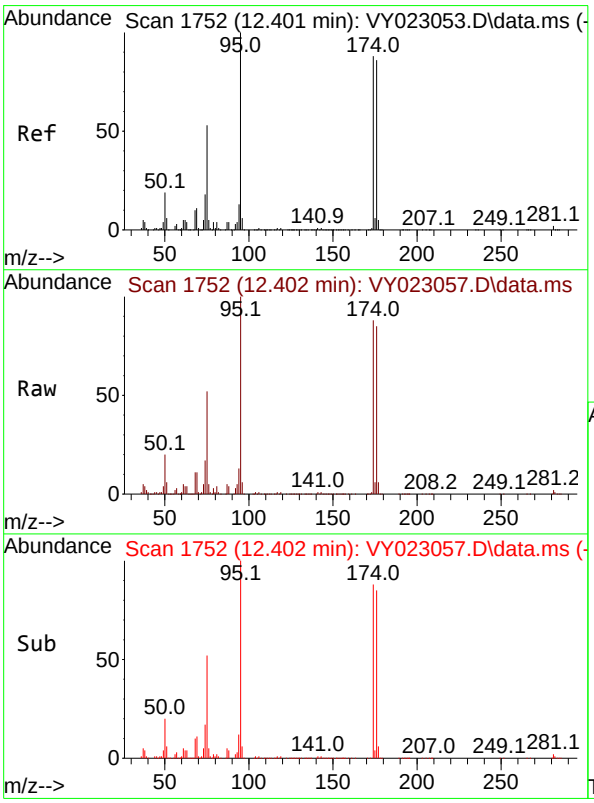
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.5 | 75.6 | 113.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

**Manual Integrations APPROVED**

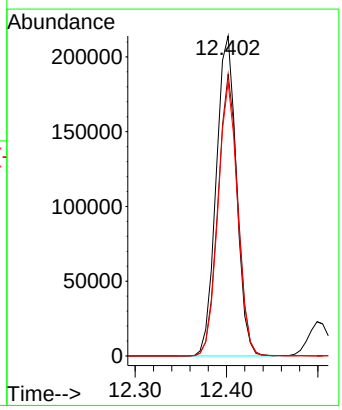
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

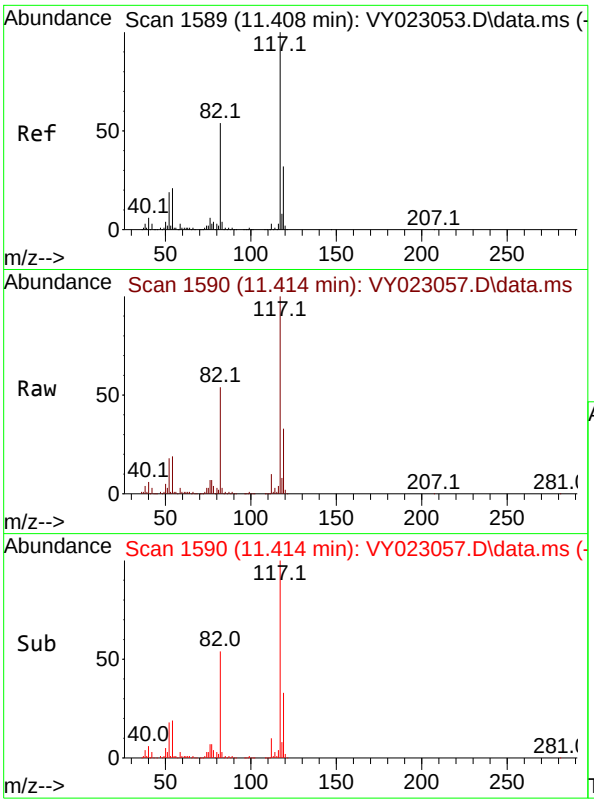



#62
4-Bromofluorobenzene
Concen: 51.500 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 95 Resp: 329022

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 86.3 | 0.0 | 171.6 |
| 176 | 82.9 | 0.0 | 167.6 |

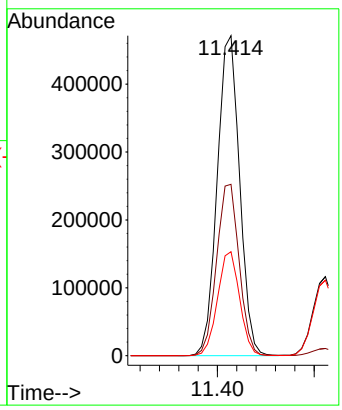





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:117 Resp: 75655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 53.6 | 43.4 | 65.0 |
| 119 | 32.5 | 25.6 | 38.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

**Manual Integrations**
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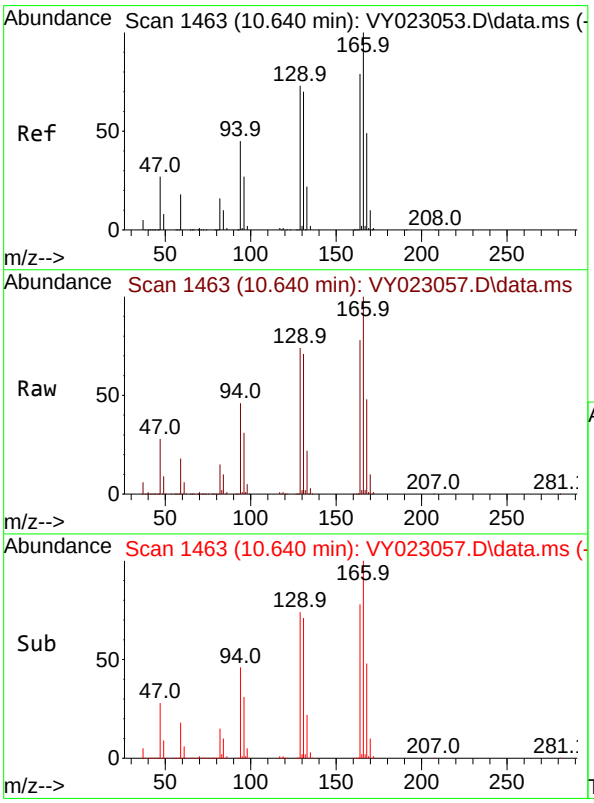
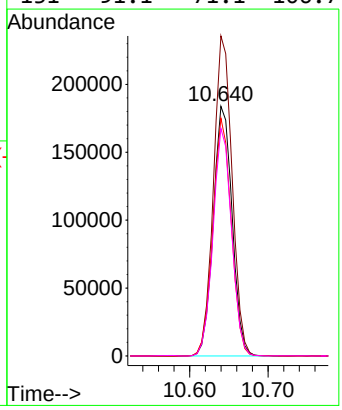
Supervised By :Semsettin Yesilyurt 08/14/2025

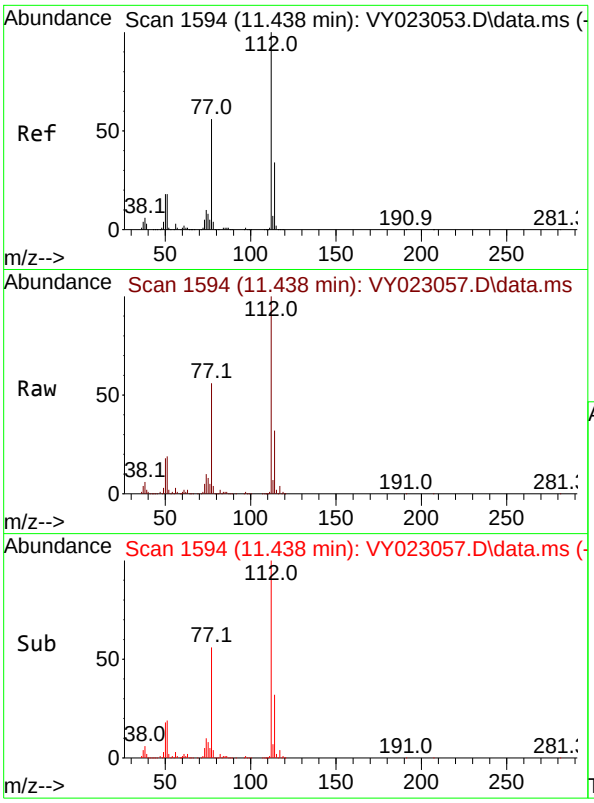



#64
Tetrachloroethene
Concen: 45.512 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:164 Resp: 307456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 128.2 | 101.1 | 151.7 |
| 129 | 95.3 | 74.0 | 111.0 |
| 131 | 91.1 | 71.1 | 106.7 |

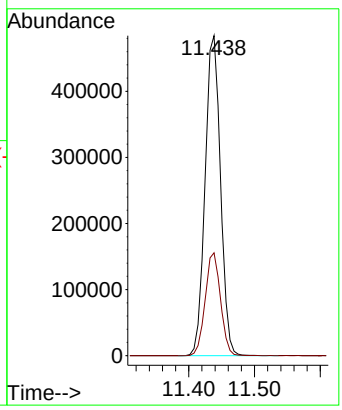





#65
Chlorobenzene
Concen: 48.275 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:112 Resp: 78779

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.2 | 27.0 | 40.4 |

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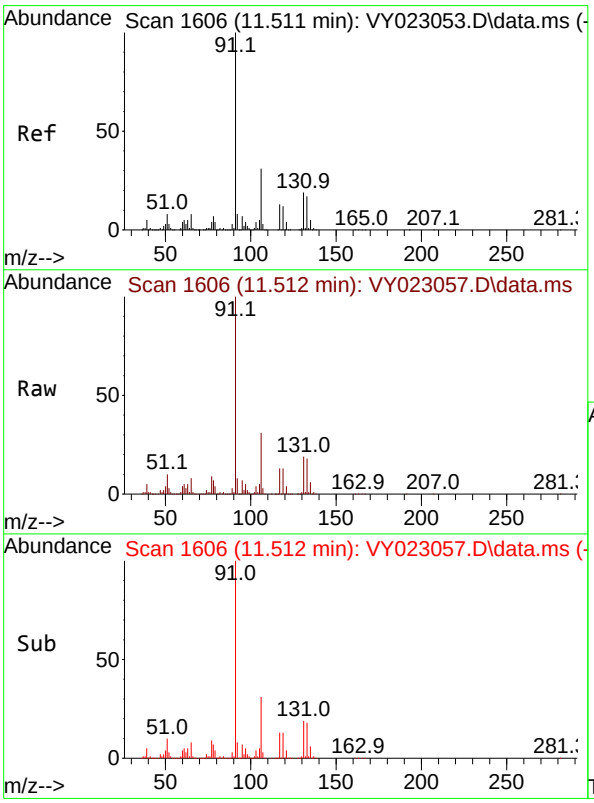
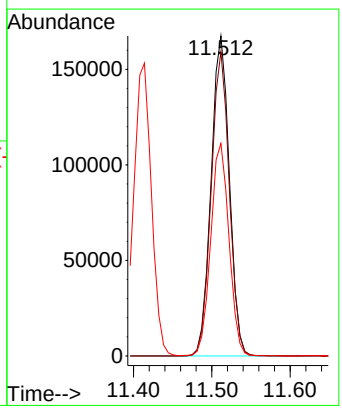
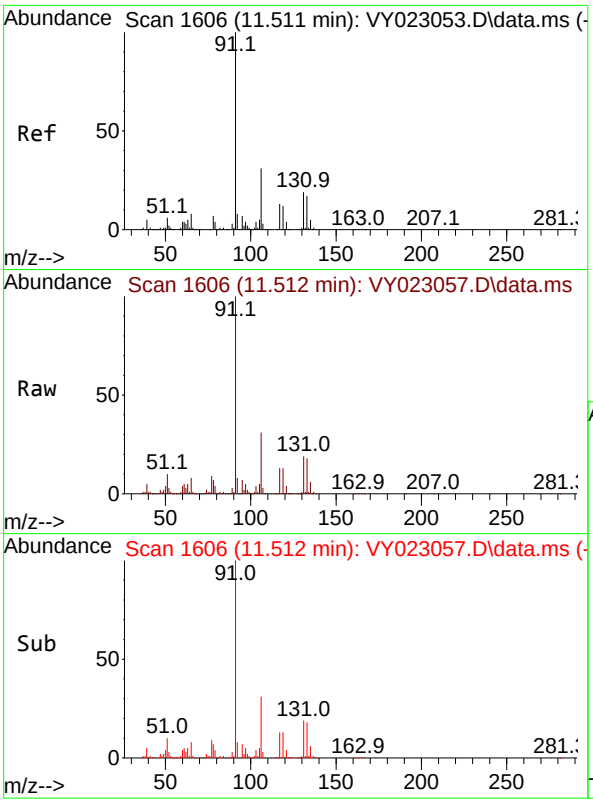



#66
1,1,1,2-Tetrachloroethane
Concen: 48.815 ug/l
RT: 11.512 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:131 Resp: 270360

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.4 | 46.9 | 140.6 |
| 119 | 66.7 | 33.2 | 99.6 |

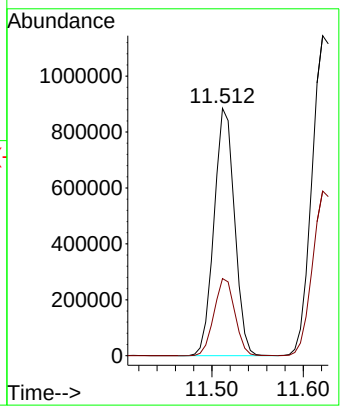





#67
Ethyl Benzene
Concen: 49.163 ug/l
RT: 11.512 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 91 Resp: 138064

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.2 | 25.0 | 37.4 |

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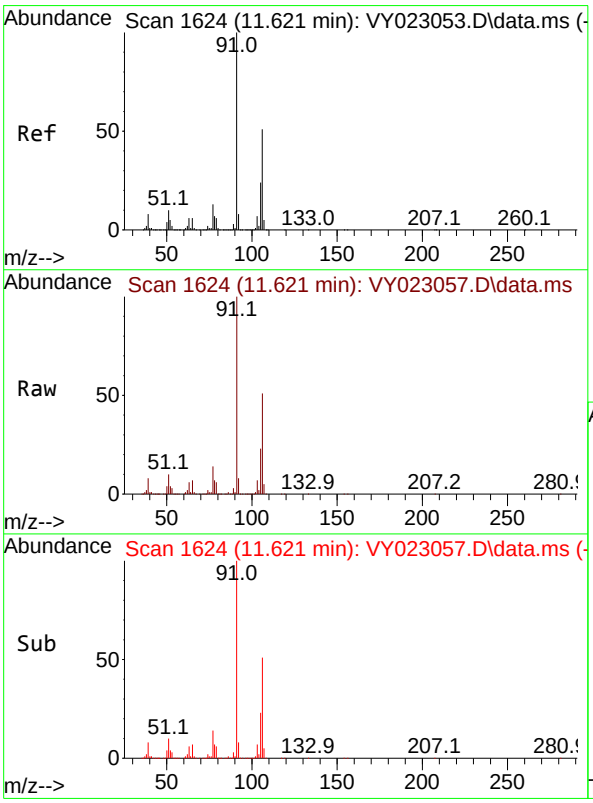
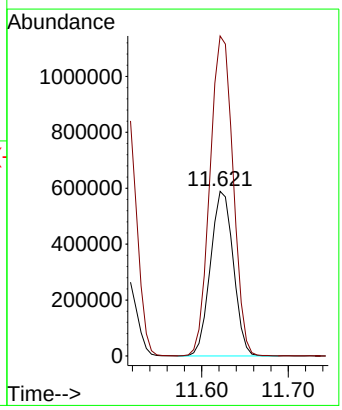
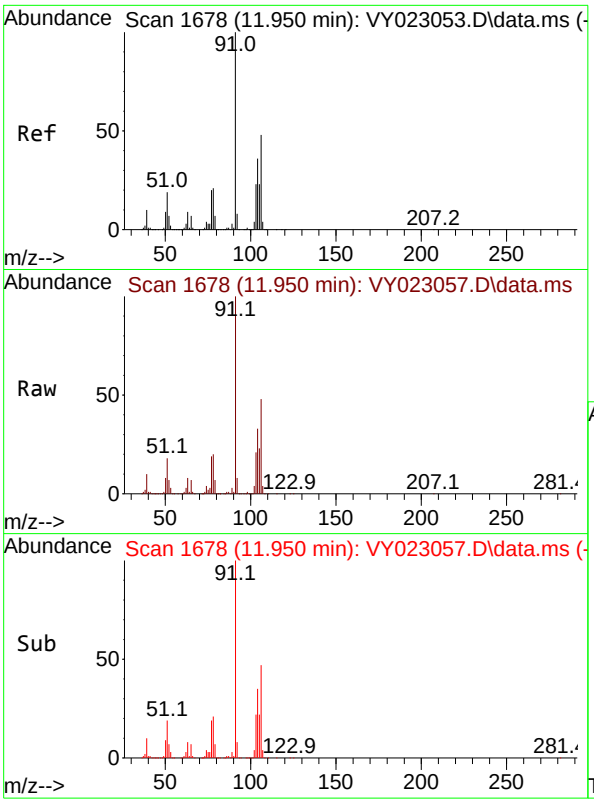



#68
m/p-Xylenes
Concen: 98.515 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:106 Resp: 1080541

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 197.0 | 158.6 | 238.0 |






#69
o-Xylene
Concen: 49.645 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:106 Resp: 50999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 207.4 | 103.2 | 309.4 |

**Instrument :**
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ICVVY081225

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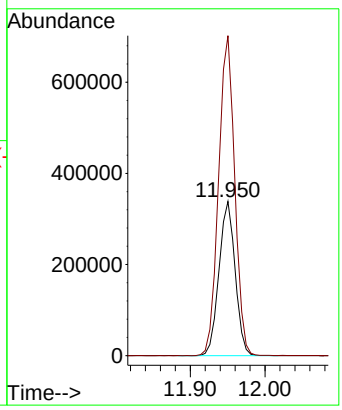
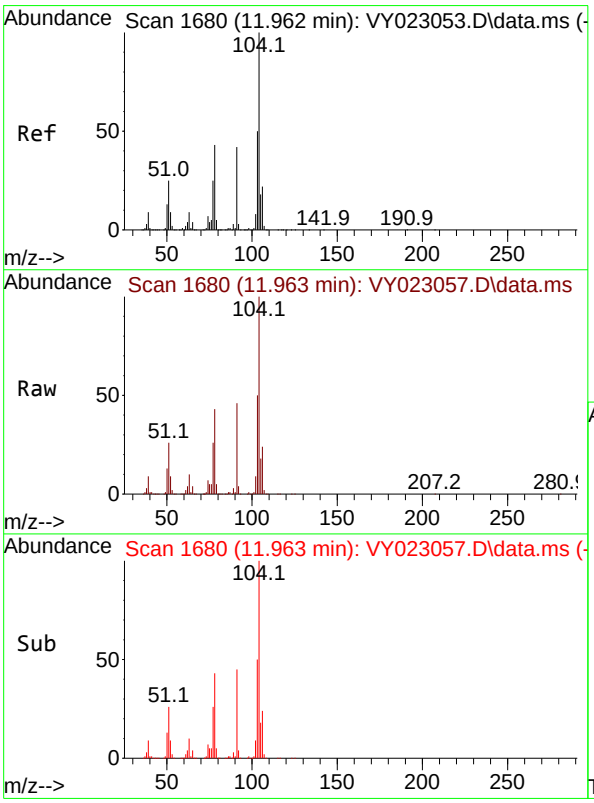
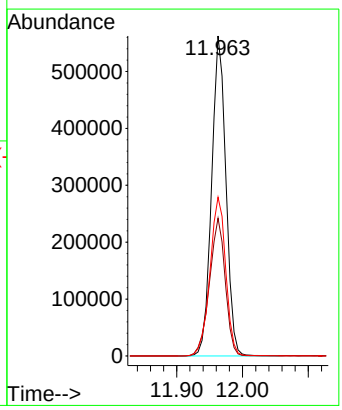


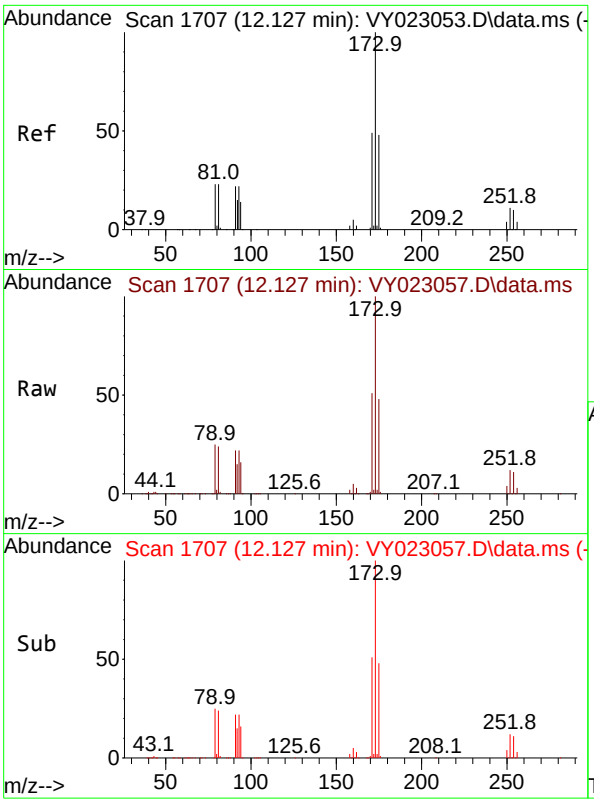




#70
Styrene
Concen: 50.733 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:104 Resp: 852310

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 47.3 | 38.5 | 57.7 |
| 103 | 54.6 | 43.7 | 65.5 |

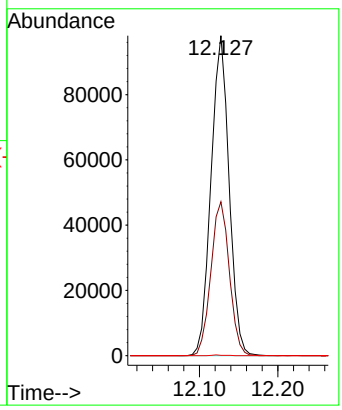





#71
Bromoform
Concen: 48.525 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:173 Resp: 15707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.1 | 23.9 | 71.7 |
| 254 | 0.2 | 0.1 | 0.1 |

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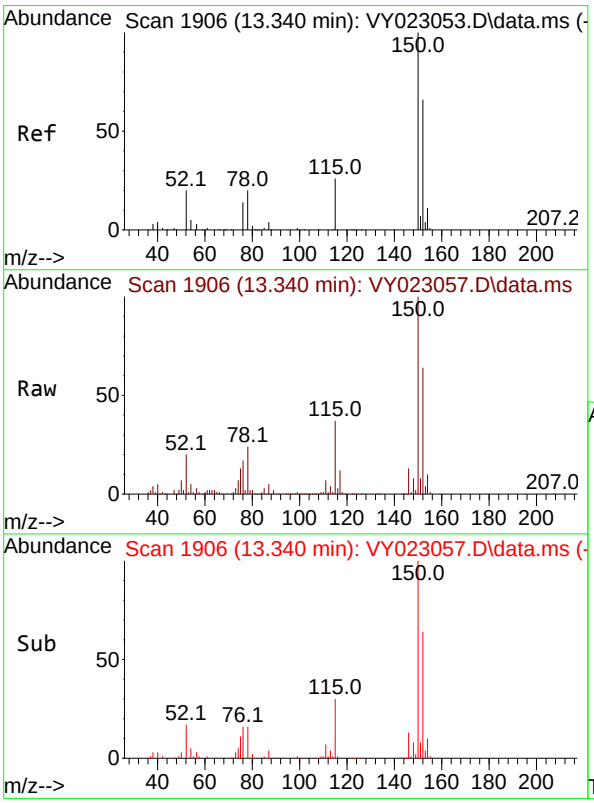
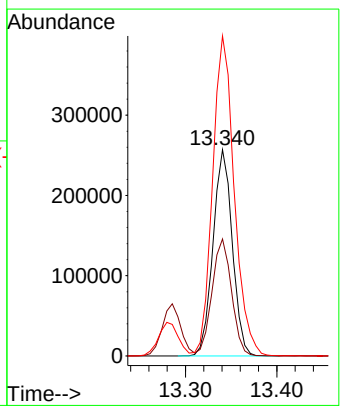
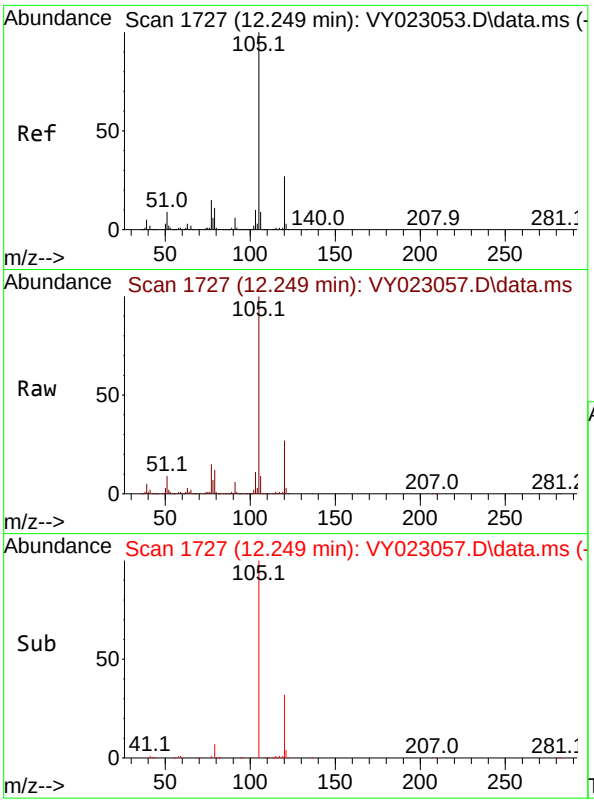



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:152 Resp: 376990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.5 | 28.2 | 84.6 |
| 150 | 174.1 | 0.0 | 348.0 |

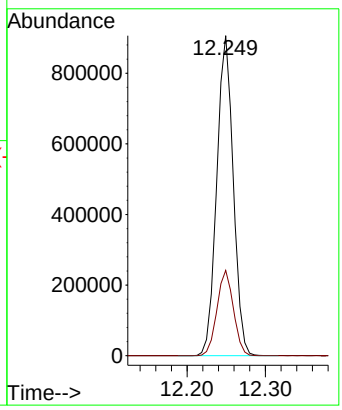





#73
Isopropylbenzene
Concen: 49.876 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:105 Resp: 132707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.6 | 13.4 | 40.2 |

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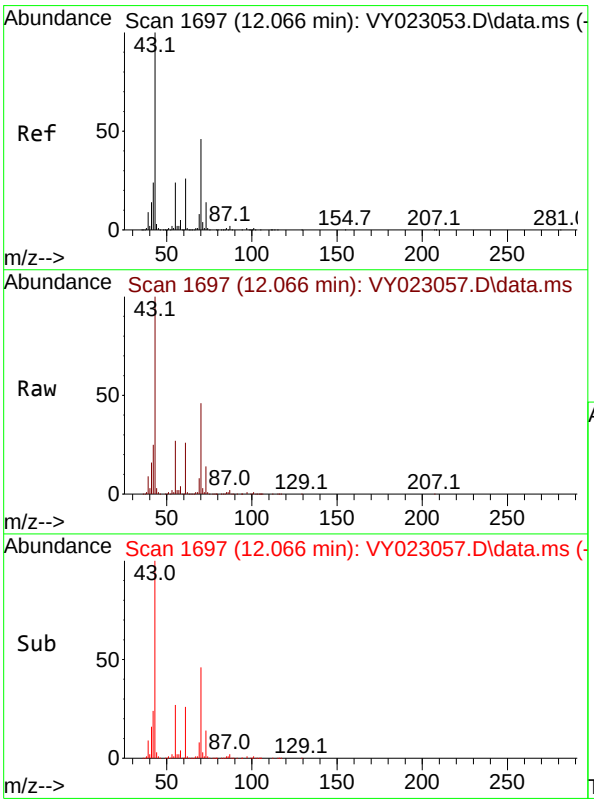
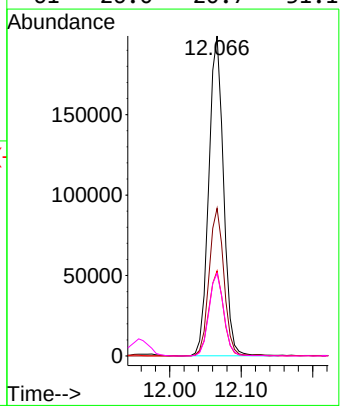
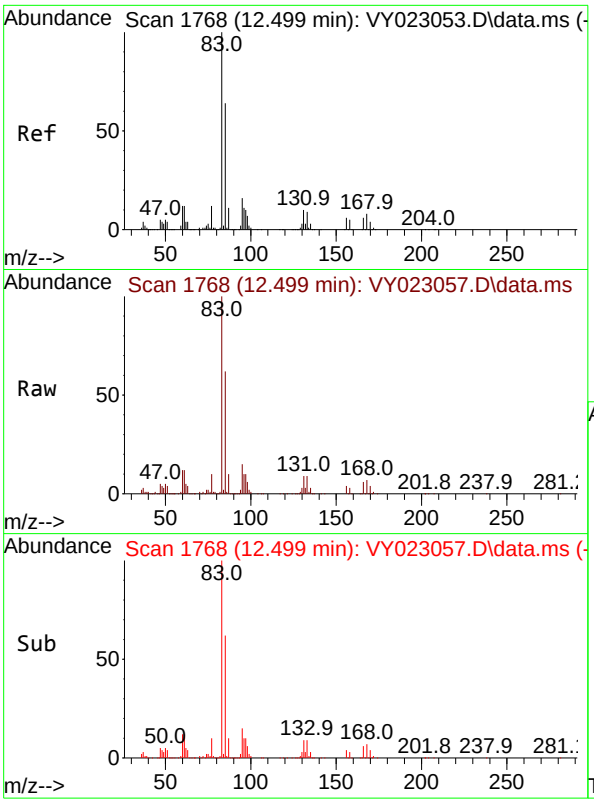



#74
N-amyl acetate
Concen: 50.529 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 43 Resp: 285118

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 46.5 | 37.5 | 56.3 |
| 55 | 26.2 | 20.7 | 31.1 |
| 61 | 26.0 | 20.7 | 31.1 |

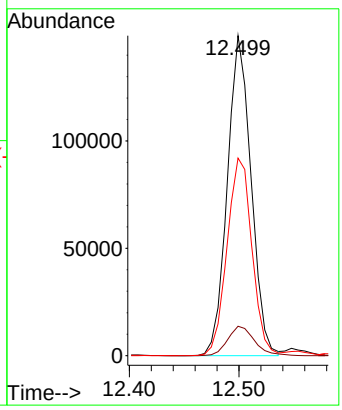





#75
1,1,2,2-Tetrachloroethane
Concen: 49.350 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 83 Resp: 22420

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.3 | 5.1 | 15.3 |
| 85 | 65.0 | 31.8 | 95.3 |




**Instrument :**
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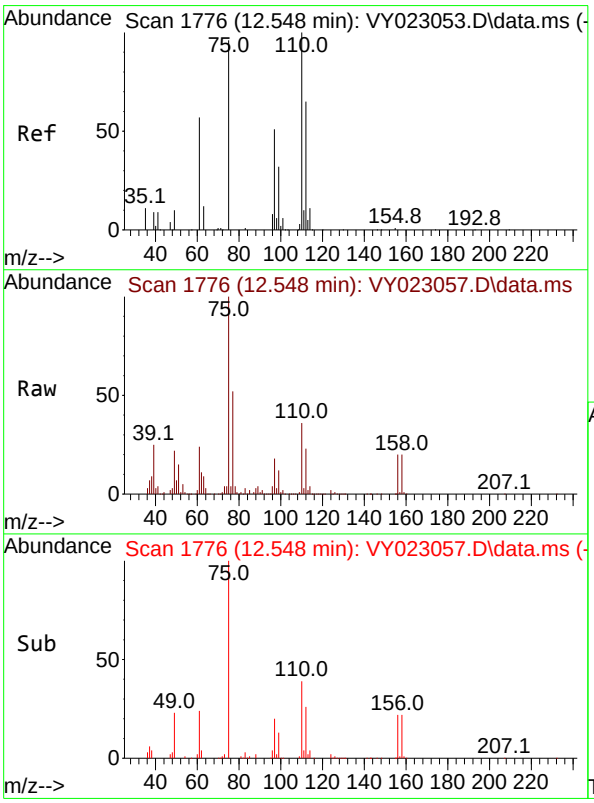
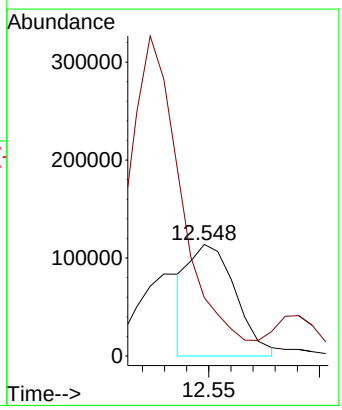
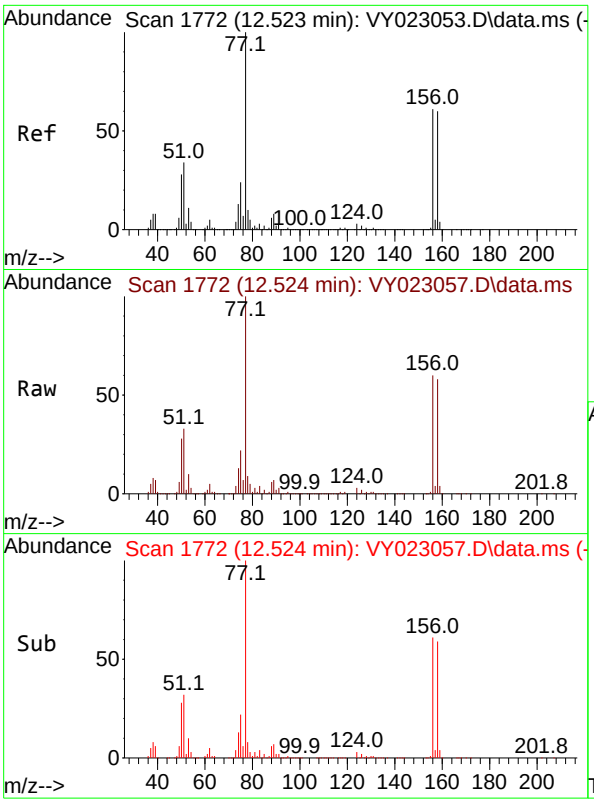



#76
1,2,3-Trichloropropane
Concen: 46.136 ug/l m
RT: 12.548 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 75 Resp: 167859

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |

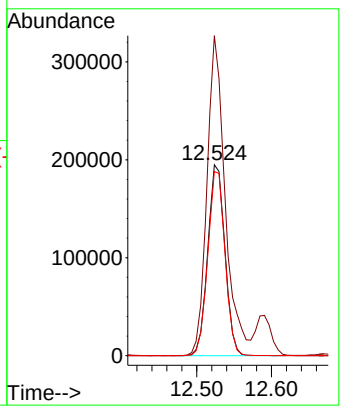





#77
Bromobenzene
Concen: 49.004 ug/l
RT: 12.524 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:156 Resp: 31106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 178.4 | 88.1 | 264.4 |
| 158 | 96.6 | 48.0 | 144.0 |

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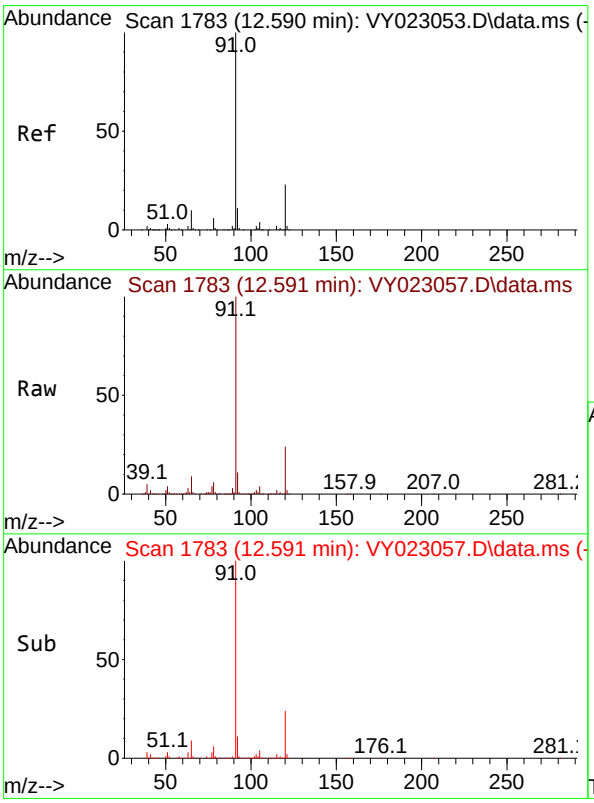
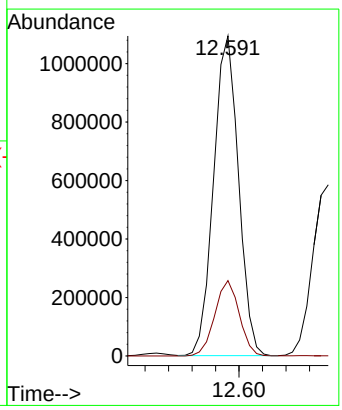
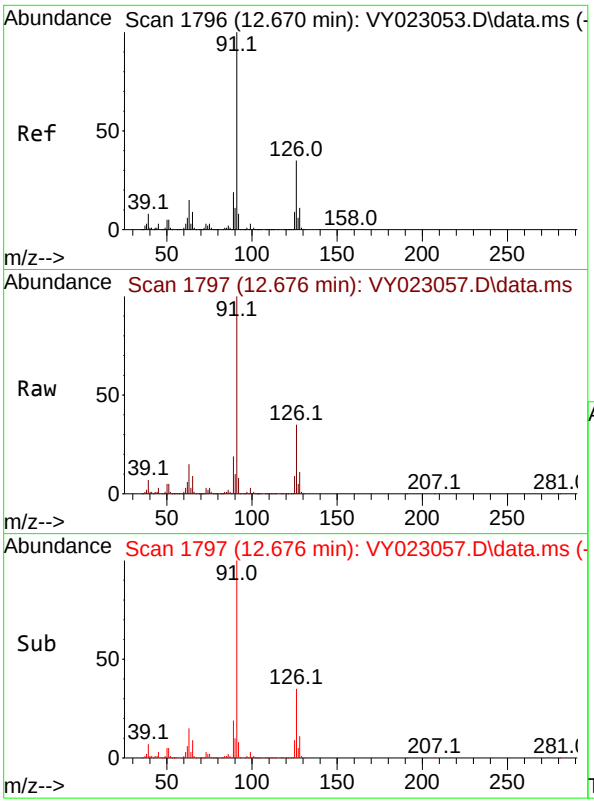



#78
n-propylbenzene
Concen: 50.853 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 91 Resp: 1610911

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 23.1 | 11.5 | 34.5 |

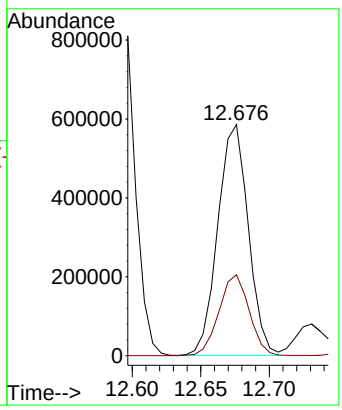





#79
2-Chlorotoluene
Concen: 49.898 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 91 Resp: 90565

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.7 | 17.4 | 52.3 |

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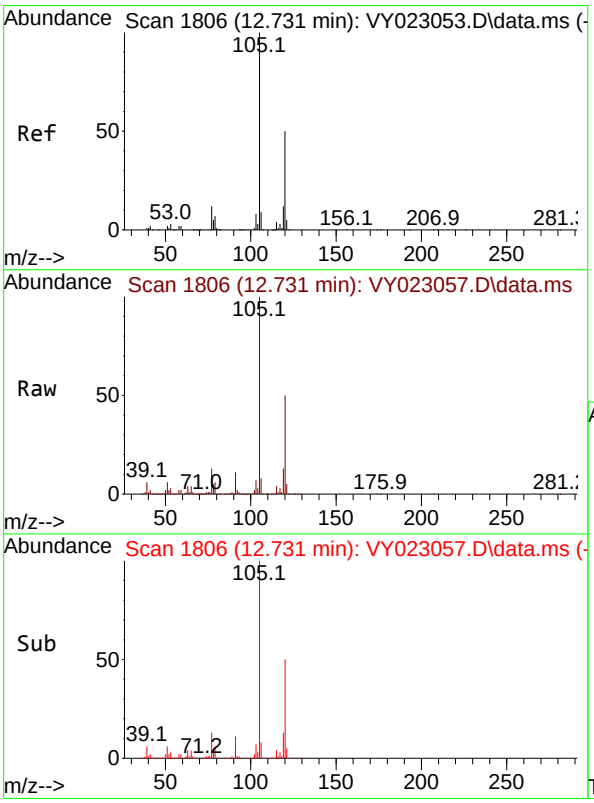
ICVVY081225

**Manual Integrations**
**APPROVED**

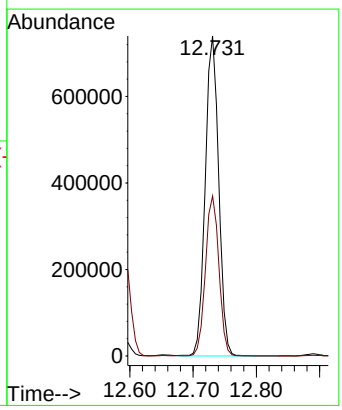
Reviewed By :Mahesh Dadoda 08/14/2025
Supervised By :Semsettin Yesilyurt 08/14/2025

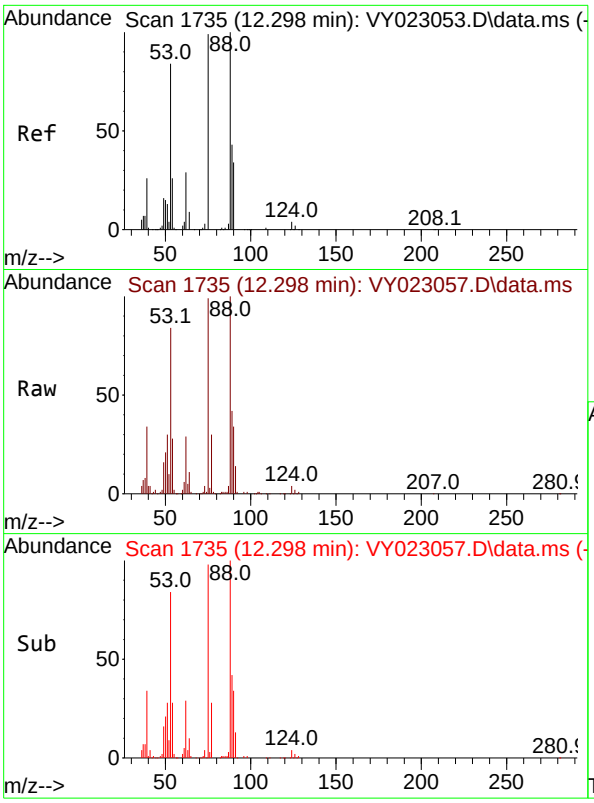



#80
1,3,5-Trimethylbenzene
Concen: 50.916 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:105 Resp: 1094902

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 50.1 | 24.8 | 74.4 |

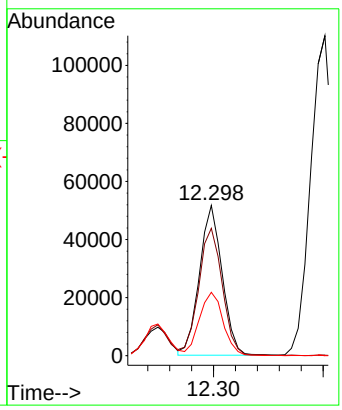





#81
trans-1,4-Dichloro-2-butene
Concen: 49.409 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 75 Resp: 7426

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 89.2 | 70.8 | 106.2 |
| 89 | 44.3 | 38.1 | 57.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

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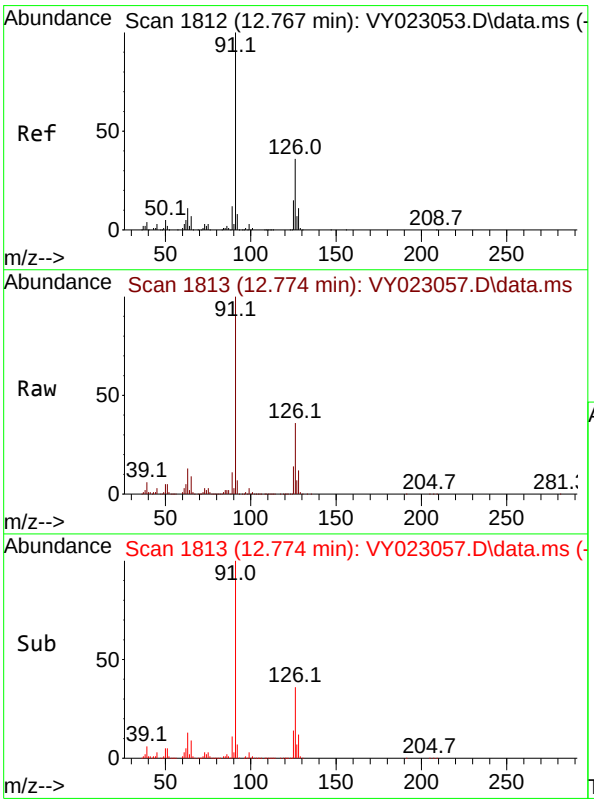
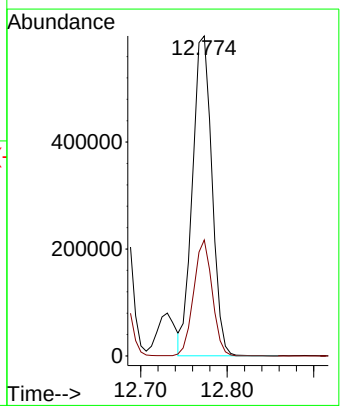
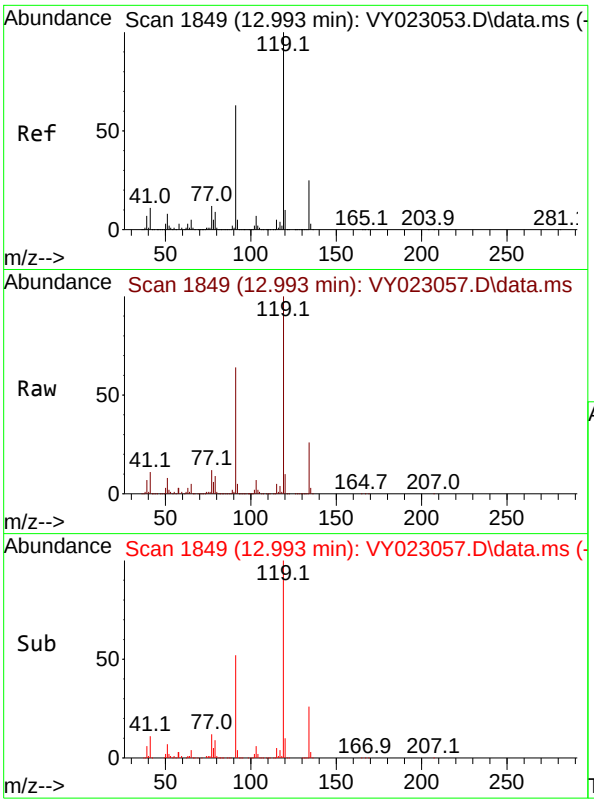



#82
4-Chlorotoluene
Concen: 49.505 ug/l
RT: 12.774 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 91 Resp: 932114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.7 | 17.3 | 52.0 |

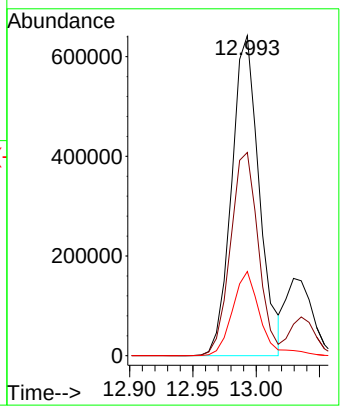





#83
tert-Butylbenzene
Concen: 50.443 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:119 Resp: 97969

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 63.7 | 31.6 | 94.8 |
| 134 | 26.4 | 12.9 | 38.7 |

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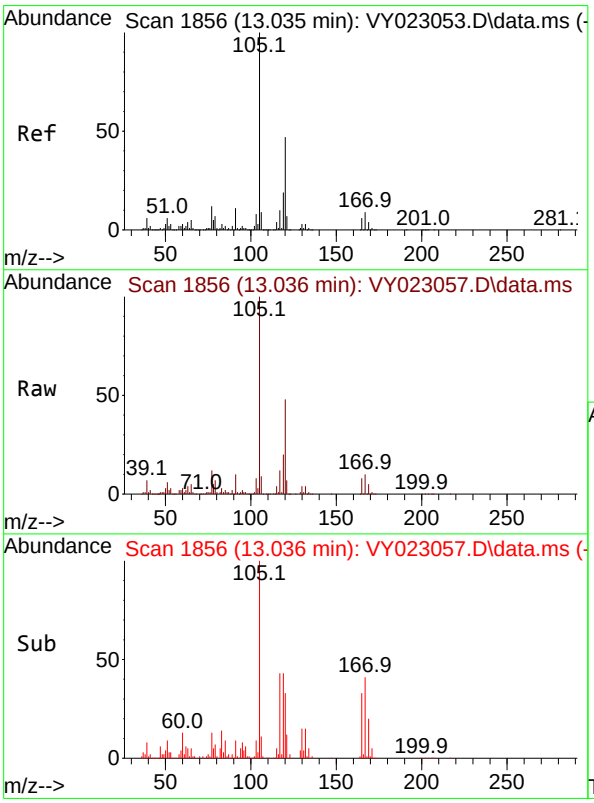
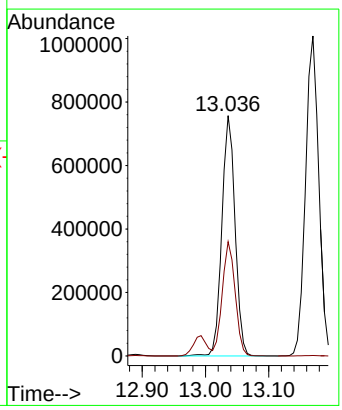
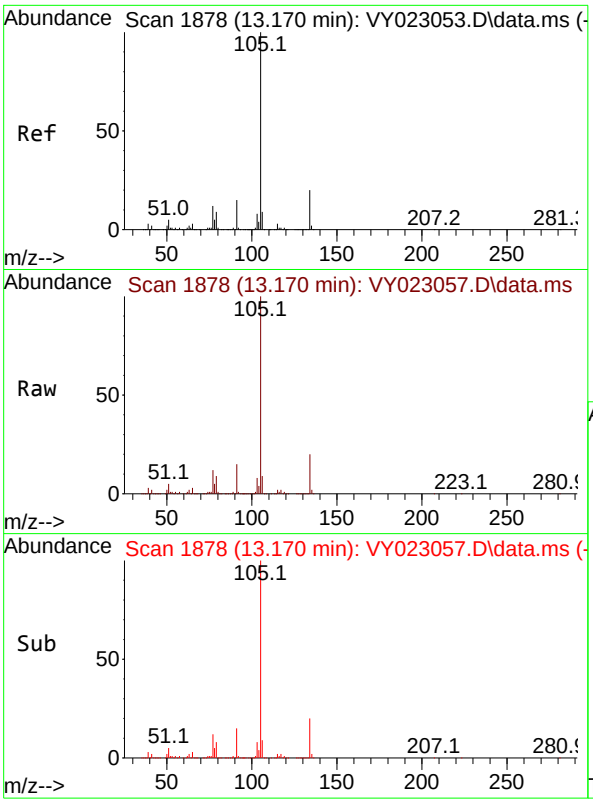



#84
1,2,4-Trimethylbenzene
Concen: 51.042 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:105 Resp: 1092616

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.3 | 23.0 | 69.0 |

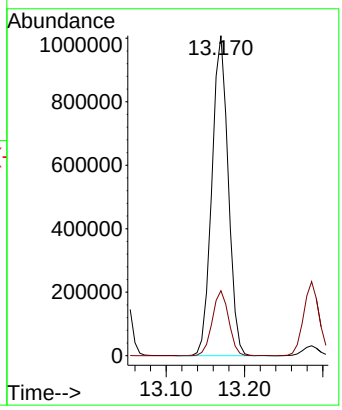





#85
sec-Butylbenzene
Concen: 51.154 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:105 Resp: 145943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.4 | 10.2 | 30.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

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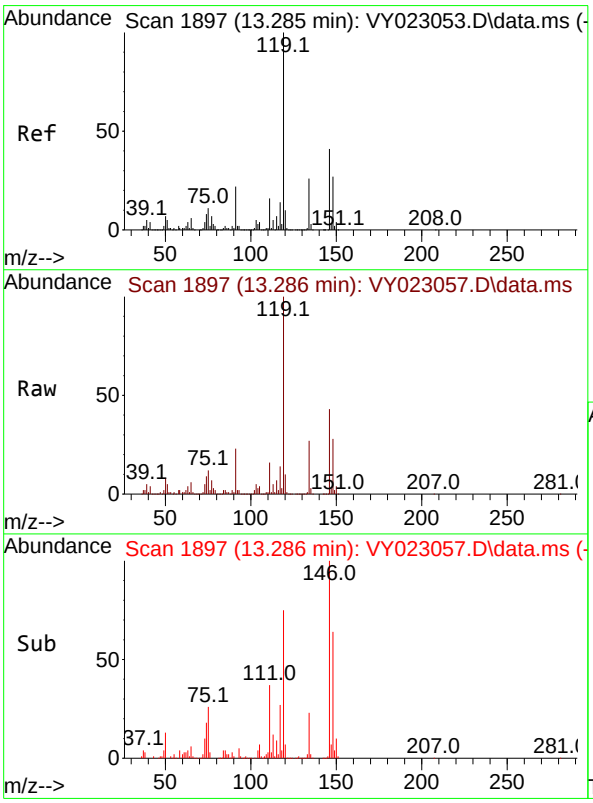
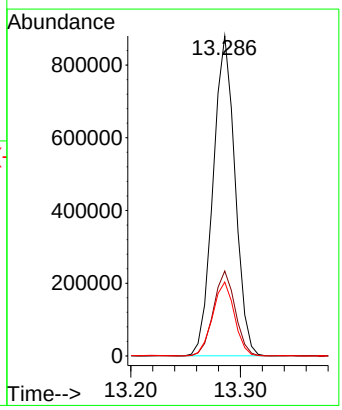
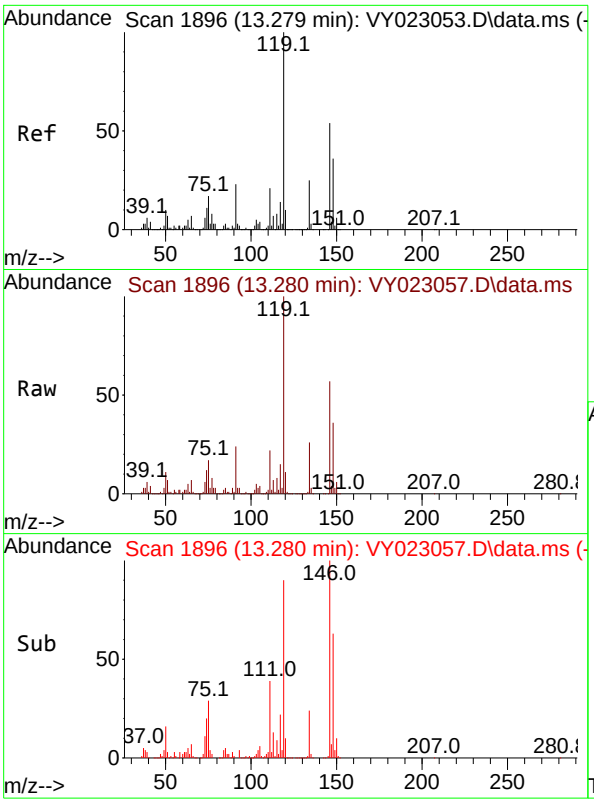



#86
p-Isopropyltoluene
Concen: 51.639 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:119 Resp: 1222900

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.3 | 13.2 | 39.6 |
| 91 | 22.9 | 11.3 | 33.8 |

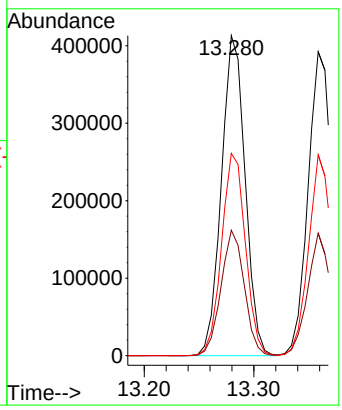





#87
1,3-Dichlorobenzene
Concen: 49.639 ug/l
RT: 13.280 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:146 Resp: 62137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.5 | 19.6 | 58.7 |
| 148 | 63.5 | 32.5 | 97.5 |

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MSVOA_Y
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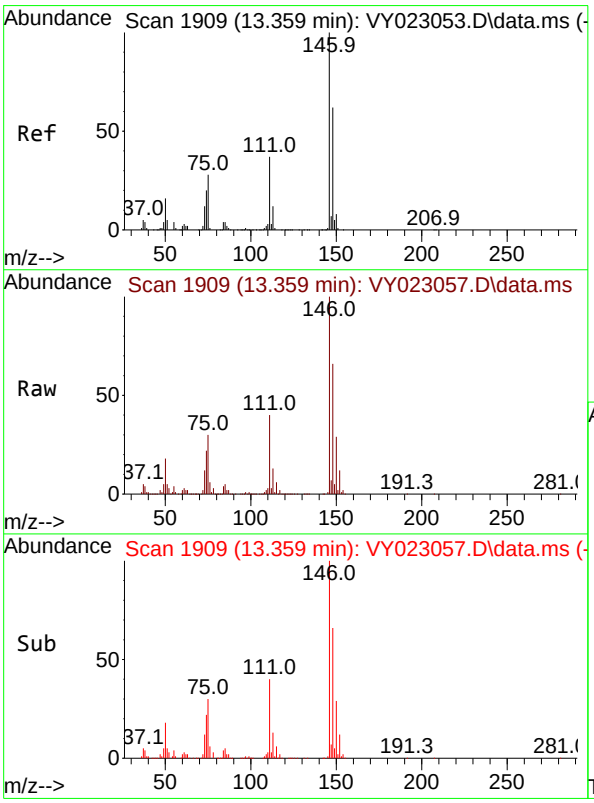
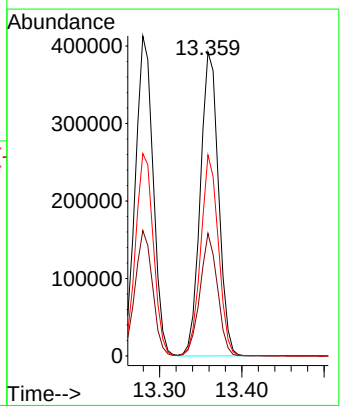
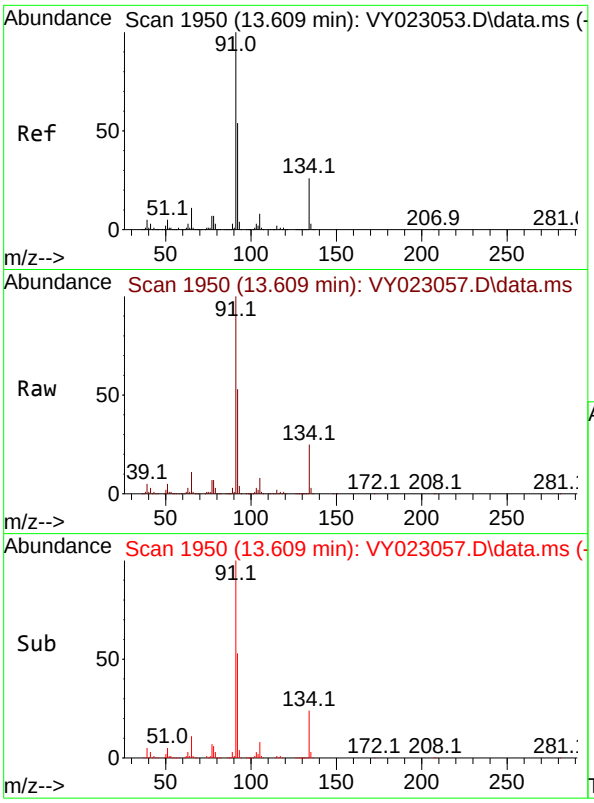



#88
1,4-Dichlorobenzene
Concen: 48.514 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:146 Resp: 602429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.6 | 19.1 | 57.1 |
| 148 | 64.1 | 31.6 | 94.7 |

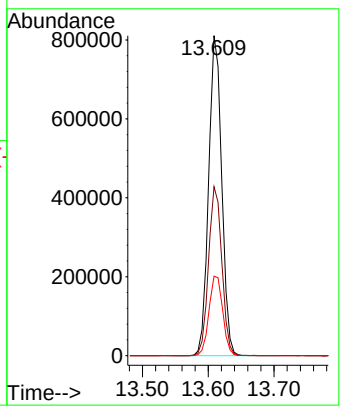





#89
n-Butylbenzene
Concen: 51.594 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 91 Resp: 112218

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.7 | 26.9 | 80.7 |
| 134 | 26.2 | 13.2 | 39.5 |

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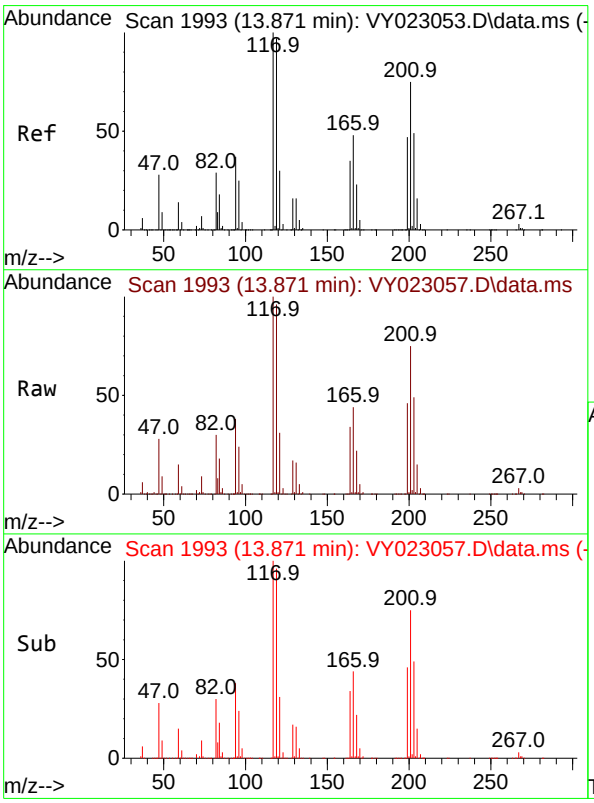
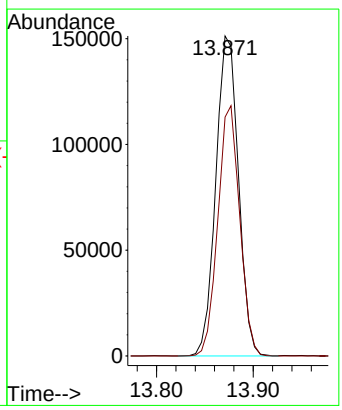
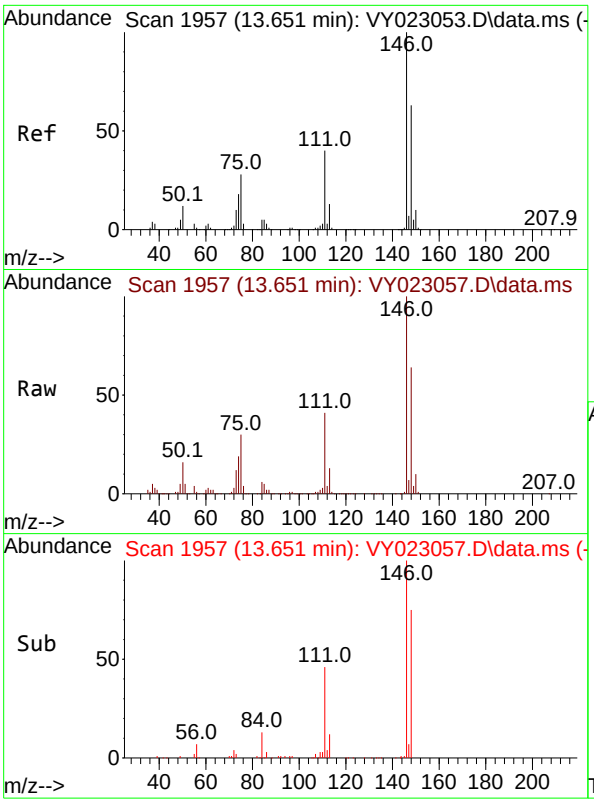



#90
Hexachloroethane
Concen: 50.617 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:117 Resp: 245386

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 75.7 | 38.4 | 115.1 |

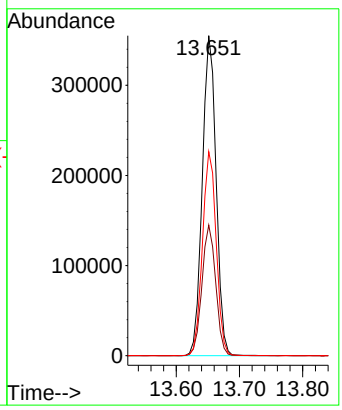





#91
1,2-Dichlorobenzene
Concen: 49.234 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:146 Resp: 54050

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.7 | 20.3 | 60.8 |
| 148 | 63.5 | 32.2 | 96.6 |

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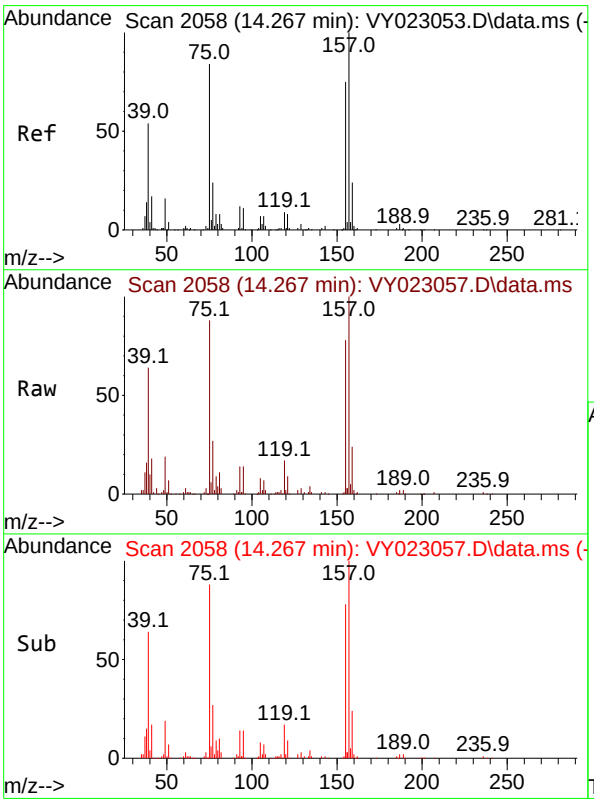
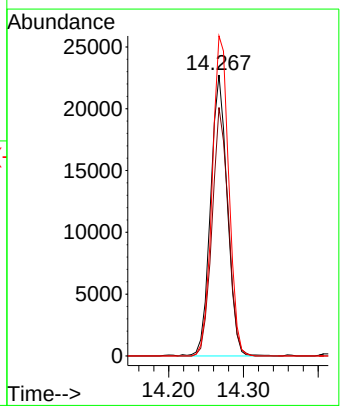
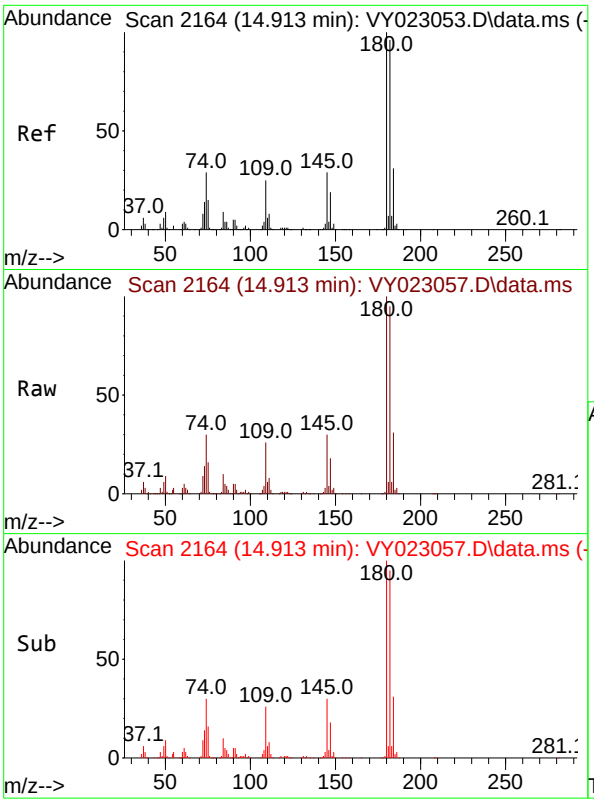



#92
1,2-Dibromo-3-Chloropropane
Concen: 50.085 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 75 Resp: 35428

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 86.0 | 43.9 | 131.6 |
| 157 | 112.9 | 57.2 | 171.6 |






#93
1,2,4-Trichlorobenzene
Concen: 49.363 ug/l
RT: 14.913 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:180 Resp: 32047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.2 | 46.8 | 140.4 |
| 145 | 29.8 | 14.4 | 43.4 |

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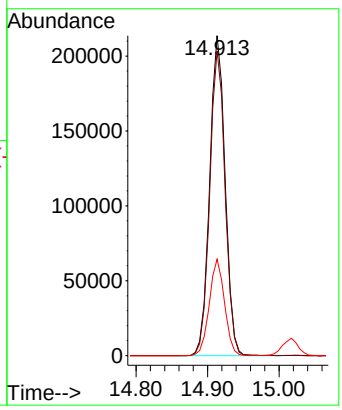
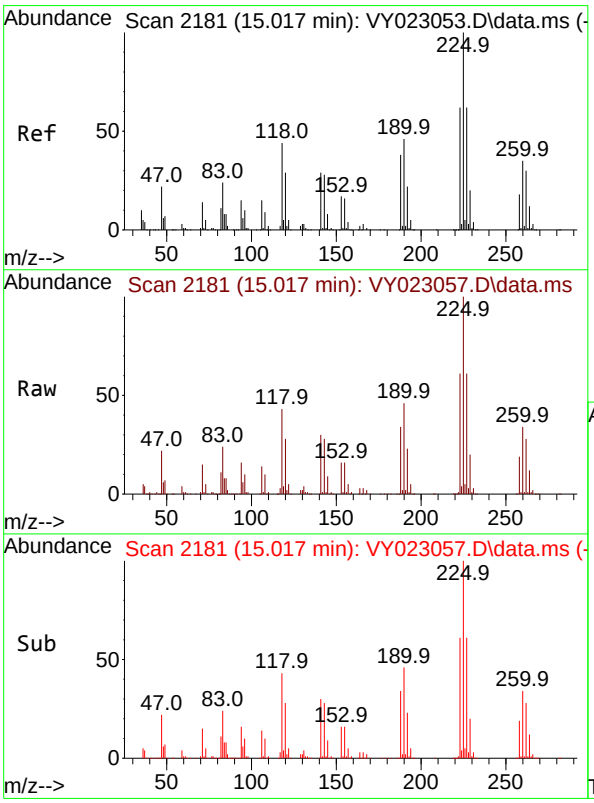
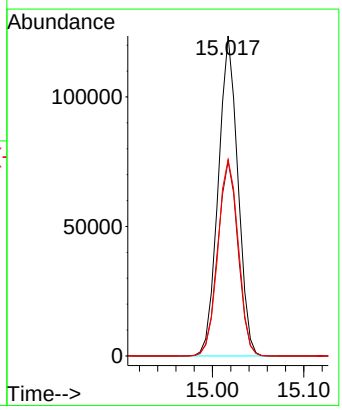


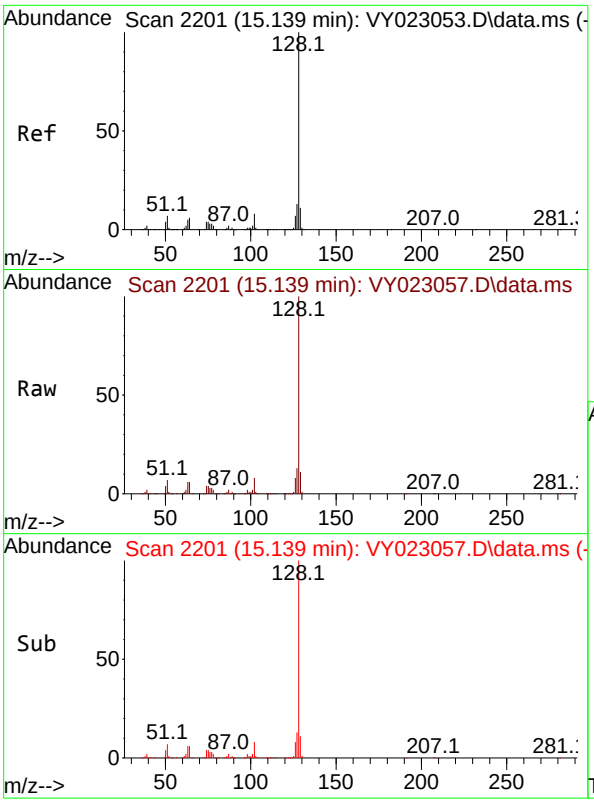




#94
Hexachlorobutadiene
Concen: 48.344 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:225 Resp: 184430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.8 | 31.3 | 93.8 |
| 227 | 63.8 | 31.5 | 94.5 |

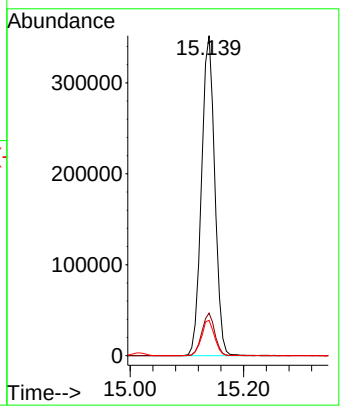





#95
Naphthalene
Concen: 51.623 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:128 Resp: 5714

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.0 | 10.4 | 15.6 |
| 129 | 10.9 | 9.0 | 13.4 |

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**ClientSampleId :**
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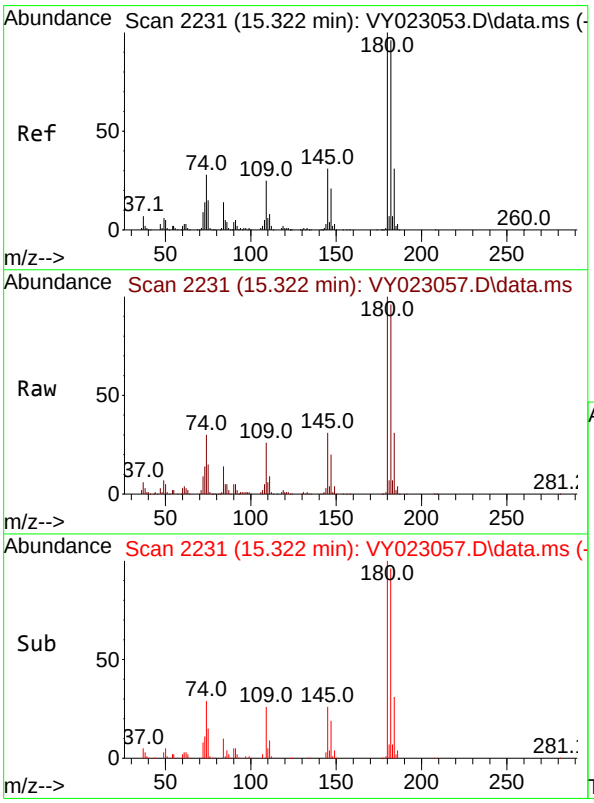
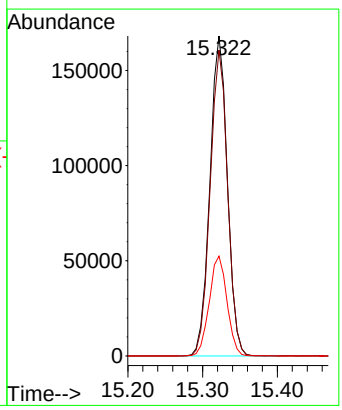



#96
1,2,3-Trichlorobenzene
Concen: 48.735 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:180 Resp: 272638

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.6 | 47.9 | 143.7 |
| 145 | 31.7 | 15.9 | 47.7 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023057.D
Acq On : 12 Aug 2025 17:53
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Quant Time: Aug 13 02:14:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 98 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.408 | 0.339 | 16.9 | 96 | 0.00 |
| 3 | P | Chloromethane | 0.661 | 0.644 | 2.6 | 104 | 0.00 |
| 4 | C | Vinyl Chloride | 0.817 | 0.788 | 3.5# | 100 | 0.00 |
| 5 | T | Bromomethane | 0.610 | 0.573 | 6.1 | 104 | 0.00 |
| 6 | T | Chloroethane | 0.543 | 0.532 | 2.0 | 101 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.994 | 0.934 | 6.0 | 98 | 0.00 |
| 8 | T | Diethyl Ether | 0.263 | 0.251 | 4.6 | 98 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.490 | 0.468 | 4.5 | 99 | 0.00 |
| 10 | T | Methyl Iodide | 0.529 | 0.543 | -2.6 | 97 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.033 | 0.032 | 3.0 | 99 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.482 | 0.460 | 4.6# | 97 | 0.00 |
| 13 | T | Acrolein | 0.048 | 0.042 | 12.5 | 93 | 0.00 |
| 14 | T | Allyl chloride | 0.709 | 0.671 | 5.4 | 96 | 0.00 |
| 15 | T | Acrylonitrile | 0.107 | 0.104 | 2.8 | 96 | 0.00 |
| 16 | T | Acetone | 0.103 | 0.087 | 15.5 | 83 | 0.00 |
| 17 | T | Carbon Disulfide | 1.571 | 1.475 | 6.1 | 97 | 0.00 |
| 18 | T | Methyl Acetate | 0.307 | 0.319 | -3.9 | 97 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.249 | 1.246 | 0.2 | 99 | 0.00 |
| 20 | T | Methylene Chloride | 0.620 | 0.536 | 13.5 | 103 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.541 | 0.528 | 2.4 | 99 | 0.00 |
| 22 | T | Diisopropyl ether | 1.541 | 1.541 | 0.0 | 100 | 0.00 |
| 23 | T | Vinyl Acetate | 0.852 | 0.826 | 3.1 | 96 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 0.942 | 0.915 | 2.9 | 98 | 0.00 |
| 25 | T | 2-Butanone | 0.140 | 0.129 | 7.9 | 89 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.813 | 0.739 | 9.1 | 92 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.626 | 0.610 | 2.6 | 99 | 0.00 |
| 28 | T | Bromochloromethane | 0.374 | 0.376 | -0.5 | 101 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.087 | 0.086 | 1.1 | 97 | 0.00 |
| 30 | C | Chloroform | 0.971 | 0.941 | 3.1# | 98 | 0.00 |
| 31 | T | Cyclohexane | 0.888 | 0.826 | 7.0 | 99 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.862 | 0.844 | 2.1 | 99 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.477 | 0.477 | 0.0 | 101 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 99 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.299 | 0.300 | -0.3 | 102 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.445 | 0.429 | 3.6 | 98 | 0.00 |
| 37 | T | Ethyl Acetate | 0.187 | 0.185 | 1.1 | 98 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.483 | 0.464 | 3.9 | 99 | 0.00 |
| 39 | T | Methylcyclohexane | 0.586 | 0.581 | 0.9 | 102 | 0.00 |
| 40 | TM | Benzene | 1.370 | 1.327 | 3.1 | 99 | 0.00 |
| 41 | T | Methacrylonitrile | 0.108 | 0.104 | 3.7 | 94 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.356 | 0.343 | 3.7 | 98 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.378 | 0.371 | 1.9 | 99 | 0.00 |
| 44 | TM | Trichloroethene | 0.354 | 0.339 | 4.2 | 98 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.315 | 0.309 | 1.9# | 99 | 0.00 |
| 46 | T | Dibromomethane | 0.181 | 0.176 | 2.8 | 98 | 0.00 |
| 47 | T | Bromodichloromethane | 0.466 | 0.461 | 1.1 | 99 | 0.00 |
| 48 | T | Methyl methacrylate | 0.181 | 0.183 | -1.1 | 96 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023057.D
Acq On : 12 Aug 2025 17:53
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Quant Time: Aug 13 02:14:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 0.002 | 0.002 | 0.0 | 97 | 0.00 |
| 50 | S | Toluene-d8 | 1.169 | 1.153 | 1.4 | 100 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.195 | 0.194 | 0.5 | 97 | 0.00 |
| 52 | CM | Toluene | 0.870 | 0.852 | 2.1# | 99 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.422 | 0.419 | 0.7 | 99 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.499 | 0.488 | 2.2 | 98 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.242 | 0.237 | 2.1 | 98 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.310 | 0.315 | -1.6 | 98 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.411 | 0.404 | 1.7 | 99 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.146 | 0.160 | -9.6 | 102 | 0.00 |
| 59 | T | 2-Hexanone | 0.133 | 0.130 | 2.3 | 94 | 0.00 |
| 60 | T | Dibromochloromethane | 0.320 | 0.318 | 0.6 | 99 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.228 | 0.224 | 1.8 | 98 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.376 | 0.387 | -2.9 | 104 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 101 | 0.00 |
| 64 | T | Tetrachloroethene | 0.446 | 0.406 | 9.0 | 94 | 0.00 |
| 65 | PM | Chlorobenzene | 1.079 | 1.041 | 3.5 | 99 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.366 | 0.357 | 2.5 | 99 | 0.00 |
| 67 | C | Ethyl Benzene | 1.856 | 1.825 | 1.7# | 99 | 0.00 |
| 68 | T | m/p-Xylenes | 0.725 | 0.714 | 1.5 | 100 | 0.00 |
| 69 | T | o-Xylene | 0.679 | 0.674 | 0.7 | 99 | 0.00 |
| 70 | T | Styrene | 1.110 | 1.127 | -1.5 | 101 | 0.00 |
| 71 | P | Bromoform | 0.214 | 0.208 | 2.8 | 98 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 100 | 0.00 |
| 73 | T | Isopropylbenzene | 3.529 | 3.520 | 0.3 | 100 | 0.00 |
| 74 | T | N-amyl acetate | 0.748 | 0.756 | -1.1 | 98 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.603 | 0.595 | 1.3 | 102 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.483 | 0.445 | 7.9 | 83 | 0.00 |
| 77 | T | Bromobenzene | 0.842 | 0.825 | 2.0 | 99 | 0.00 |
| 78 | T | n-propylbenzene | 4.201 | 4.273 | -1.7 | 101 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.407 | 2.402 | 0.2 | 101 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.852 | 2.904 | -1.8 | 101 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.199 | 0.197 | 1.0 | 100 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.497 | 2.473 | 1.0 | 100 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.576 | 2.599 | -0.9 | 100 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.839 | 2.898 | -2.1 | 102 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.784 | 3.871 | -2.3 | 102 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.141 | 3.244 | -3.3 | 102 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.660 | 1.648 | 0.7 | 102 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.647 | 1.598 | 3.0 | 100 | 0.00 |
| 89 | T | n-Butylbenzene | 2.885 | 2.977 | -3.2 | 102 | 0.00 |
| 90 | T | Hexachloroethane | 0.643 | 0.651 | -1.2 | 103 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.456 | 1.434 | 1.5 | 101 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.094 | 0.094 | 0.0 | 99 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.861 | 0.850 | 1.3 | 100 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.506 | 0.489 | 3.4 | 99 | 0.00 |
| 95 | T | Naphthalene | 1.468 | 1.516 | -3.3 | 102 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023057.D
Acq On : 12 Aug 2025 17:53
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Quant Time: Aug 13 02:14:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 0.742 | 0.723 | 2.6 | 100 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

# Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023057.D
Acq On : 12 Aug 2025 17:53
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Quant Time: Aug 13 02:14:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 98 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 41.579 | 16.8 | 96 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 48.732 | 2.5 | 104 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 48.198 | 3.6# | 100 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 46.983 | 6.0 | 104 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 48.923 | 2.2 | 101 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 47.003 | 6.0 | 98 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 47.787 | 4.4 | 98 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 47.725 | 4.5 | 99 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 51.340 | -2.7 | 97 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 245.940 | 1.6 | 99 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 47.686 | 4.6# | 97 | 0.00 |
| 13 | T | Acrolein | 250.000 | 222.008 | 11.2 | 93 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 47.317 | 5.4 | 96 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 242.779 | 2.9 | 96 | 0.00 |
| 16 | T | Acetone | 250.000 | 210.695 | 15.7 | 83 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 46.948 | 6.1 | 97 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 51.972 | -3.9 | 97 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 49.899 | 0.2 | 99 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 49.960 | 0.1 | 103 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 48.765 | 2.5 | 99 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 50.011 | -0.0 | 100 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 242.360 | 3.1 | 96 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 48.551 | 2.9 | 98 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 230.028 | 8.0 | 89 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 45.475 | 9.0 | 92 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 48.720 | 2.6 | 99 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 50.275 | -0.5 | 101 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 247.420 | 1.0 | 97 | 0.00 |
| 30 | C | Chloroform | 50.000 | 48.450 | 3.1# | 98 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 46.526 | 6.9 | 99 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 48.933 | 2.1 | 99 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 50.038 | -0.1 | 101 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 99 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 50.179 | -0.4 | 102 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 48.193 | 3.6 | 98 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 49.621 | 0.8 | 98 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 48.030 | 3.9 | 99 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 49.625 | 0.8 | 102 | 0.00 |
| 40 | TM | Benzene | 50.000 | 48.428 | 3.1 | 99 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 48.269 | 3.5 | 94 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 48.162 | 3.7 | 98 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 49.094 | 1.8 | 99 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 47.803 | 4.4 | 98 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 48.961 | 2.1# | 99 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 48.679 | 2.6 | 98 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 49.463 | 1.1 | 99 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 50.520 | -1.0 | 96 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023057.D
Acq On : 12 Aug 2025 17:53
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Quant Time: Aug 13 02:14:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 1000.000 | 971.749 | 2.8 | 97 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 49.306 | 1.4 | 100 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 248.943 | 0.4 | 97 | 0.00 |
| 52 | CM | Toluene | 50.000 | 48.963 | 2.1# | 99 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 49.699 | 0.6 | 99 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 48.965 | 2.1 | 98 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 48.867 | 2.3 | 98 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 50.779 | -1.6 | 98 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 49.228 | 1.5 | 99 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 273.240 | -9.3 | 102 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 244.812 | 2.1 | 94 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 49.810 | 0.4 | 99 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 49.197 | 1.6 | 98 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 51.500 | -3.0 | 104 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 101 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 45.512 | 9.0 | 94 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 48.275 | 3.5 | 99 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 48.815 | 2.4 | 99 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 49.163 | 1.7# | 99 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 98.515 | 1.5 | 100 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 49.645 | 0.7 | 99 | 0.00 |
| 70 | T | Styrene | 50.000 | 50.733 | -1.5 | 101 | 0.00 |
| 71 | P | Bromoform | 50.000 | 48.525 | 3.0 | 98 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 100 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 49.876 | 0.2 | 100 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 50.529 | -1.1 | 98 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 49.350 | 1.3 | 102 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 46.136 | 7.7 | 83 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 49.004 | 2.0 | 99 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 50.853 | -1.7 | 101 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 49.898 | 0.2 | 101 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 50.916 | -1.8 | 101 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 49.409 | 1.2 | 100 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 49.505 | 1.0 | 100 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 50.443 | -0.9 | 100 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 51.042 | -2.1 | 102 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 51.154 | -2.3 | 102 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 51.639 | -3.3 | 102 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 49.639 | 0.7 | 102 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 48.514 | 3.0 | 100 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 51.594 | -3.2 | 102 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 50.617 | -1.2 | 103 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 49.234 | 1.5 | 101 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 50.085 | -0.2 | 99 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 49.363 | 1.3 | 100 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 48.344 | 3.3 | 99 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 51.623 | -3.2 | 102 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023057.D
Acq On : 12 Aug 2025 17:53
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Quant Time: Aug 13 02:14:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 48.735 | 2.5 | 100 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

## VOLATILE CONTINUING CALIBRATION CHECK

| | | | |
|---|---|---|---|
| Lab Name: | Alliance | Contract: | FIRS02 |
| Lab Code: | ACE | SDG No.: | Q2819 |
| Instrument ID: | MSVOA_W | Calibration Date/Time: | 08/11/2025 19:31 |
| Lab File ID: | VW032078.D | Init. Calib. Date(s): | 08/11/2025 08/11/2025 |
| Heated Purge: (Y/N) | Y | Init. Calib. Time(s): | 08:25 11:08 |

GC Column: RXI-624 ID: 0.25 (mm)

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.358 | 0.297 | | -17.04 | 50 |
| Chloromethane | 0.482 | 0.408 | 0.1 | -15.35 | 50 |
| Vinyl Chloride | 0.583 | 0.499 | | -14.41 | 50 |
| Bromomethane | 0.437 | 0.376 | | -13.96 | 50 |
| Chloroethane | 0.386 | 0.340 | | -11.92 | 50 |
| Trichlorofluoromethane | 0.467 | 0.408 | | -12.63 | 50 |
| 1,1,2-Trichlorotrifluoroethane | 0.551 | 0.478 | | -13.25 | 50 |
| 1,1-Dichloroethene | 0.606 | 0.534 | | -11.88 | 50 |
| Acetone | 0.167 | 0.136 | | -18.56 | 50 |
| Carbon Disulfide | 1.628 | 1.406 | | -13.64 | 50 |
| Methyl tert-butyl Ether | 1.068 | 1.029 | | -3.65 | 50 |
| Methyl Acetate | 0.530 | 0.584 | | 10.19 | 50 |
| Methylene Chloride | 0.774 | 0.639 | | -17.44 | 50 |
| trans-1,2-Dichloroethene | 0.644 | 0.595 | | -7.61 | 50 |
| 1,1-Dichloroethane | 1.189 | 1.078 | 0.1 | -9.34 | 50 |
| Cyclohexane | 1.031 | 0.892 | | -13.48 | 50 |
| 2-Butanone | 0.238 | 0.227 | | -4.62 | 50 |
| Carbon Tetrachloride | 0.439 | 0.405 | | -7.74 | 50 |
| cis-1,2-Dichloroethene | 0.752 | 0.723 | | -3.86 | 50 |
| Bromochloromethane | 0.541 | 0.530 | | -2.03 | 50 |
| Chloroform | 1.260 | 1.191 | | -5.48 | 50 |
| 1,1,1-Trichloroethane | 0.915 | 0.823 | | -10.06 | 50 |
| Methylcyclohexane | 0.555 | 0.536 | | -3.42 | 50 |
| Benzene | 1.415 | 1.355 | | -4.24 | 50 |
| 1,2-Dichloroethane | 0.453 | 0.436 | | -3.75 | 50 |
| Trichloroethene | 0.337 | 0.314 | | -6.82 | 50 |
| 1,2-Dichloropropane | 0.342 | 0.335 | | -2.05 | 50 |
| Bromodichloromethane | 0.509 | 0.497 | | -2.36 | 50 |
| 4-Methyl-2-Pentanone | 0.279 | 0.281 | | 0.72 | 50 |
| Toluene | 0.892 | 0.879 | | -1.46 | 50 |
| t-1,3-Dichloropropene | 0.476 | 0.456 | | -4.2 | 50 |
| cis-1,3-Dichloropropene | 0.541 | 0.524 | | -3.14 | 50 |
| 1,1,2-Trichloroethane | 0.293 | 0.288 | | -1.71 | 50 |
| 2-Hexanone | 0.193 | 0.196 | | 1.55 | 50 |
| Dibromochloromethane | 0.335 | 0.325 | | -2.98 | 50 |
| 1,2-Dibromoethane | 0.285 | 0.280 | | -1.75 | 50 |
| Tetrachloroethene | 0.289 | 0.259 | | -10.38 | 50 |
| Chlorobenzene | 1.088 | 0.977 | 0.3 | -10.2 | 50 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

## VOLATILE CONTINUING CALIBRATION CHECK

| | | | |
|---|---|---|---|
| Lab Name: | Alliance | Contract: | FIRS02 |
| Lab Code: | ACE | SDG No.: | Q2819 |
| Instrument ID: | MSVOA_W | Calibration Date/Time: | 08/11/2025 19:31 |
| Lab File ID: | VW032078.D | Init. Calib. Date(s): | 08/11/2025 08/11/2025 |
| Heated Purge: (Y/N) | Y | Init. Calib. Time(s): | 08:25 11:08 |

GC Column: RXI-624 ID: 0.25 (mm)

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Ethyl Benzene | 1.843 | 1.690 | | -8.3 | 50 |
| m/p-Xylenes | 0.711 | 0.638 | | -10.27 | 50 |
| o-Xylene | 0.657 | 0.626 | | -4.72 | 50 |
| Styrene | 1.168 | 1.112 | | -4.8 | 50 |
| Bromoform | 0.194 | 0.187 | 0.1 | -3.61 | 50 |
| Isopropylbenzene | 3.494 | 3.384 | | -3.15 | 50 |
| 1,1,2,2-Tetrachloroethane | 0.830 | 0.788 | 0.3 | -5.06 | 50 |
| 1,3-Dichlorobenzene | 1.661 | 1.530 | | -7.89 | 50 |
| 1,4-Dichlorobenzene | 1.678 | 1.525 | | -9.12 | 50 |
| 1,2-Dichlorobenzene | 1.504 | 1.482 | | -1.46 | 50 |
| 1,2-Dibromo-3-Chloropropane | 0.147 | 0.138 | | -6.12 | 50 |
| 1,2,4-Trichlorobenzene | 0.900 | 0.856 | | -4.89 | 50 |
| 1,2,3-Trichlorobenzene | 0.819 | 0.841 | | 2.69 | 50 |
| 1,2-Dichloroethane-d4 | 0.723 | 0.712 | | -1.52 | 50 |
| Dibromofluoromethane | 0.323 | 0.320 | | -0.93 | 50 |
| Toluene-d8 | 1.195 | 1.199 | | 0.34 | 50 |
| 4-Bromofluorobenzene | 0.440 | 0.437 | | -0.68 | 50 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032078.D
Acq On : 11 Aug 2025 19:31
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Aug 12 04:30:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.959 | 168 | 224871 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.849 | 114 | 413610 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.629 | 117 | 399228 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.556 | 152 | 181926 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.319 | 65 | 160017 | 49.202 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 63 - 155 | | Recovery = 98.400% | | | |
| 35) Dibromofluoromethane | 7.898 | 113 | 132442 | 49.565 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 70 - 134 | | Recovery = 99.140% | | | |
| 50) Toluene-d8 | 10.325 | 98 | 496013 | 50.187 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 123 | | Recovery = 100.380% | | | |
| 62) 4-Bromofluorobenzene | 12.617 | 95 | 180889 | 49.666 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 17 - 146 | | Recovery = 99.340% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.040 | 85 | 66817 | 41.544 | ug/l | 100 |
| 3) Chloromethane | 2.253 | 50 | 91640 | 42.300 | ug/l | 95 |
| 4) Vinyl Chloride | 2.405 | 62 | 112251 | 42.835 | ug/l | 94 |
| 5) Bromomethane | 2.826 | 94 | 84610 | 43.036 | ug/l | 99 |
| 6) Chloroethane | 2.972 | 64 | 76486 | 44.108 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.308 | 101 | 91694 | 43.678 | ug/l | 95 |
| 8) Diethyl Ether | 3.722 | 74 | 78203 | 45.468 | ug/l | 97 |
| 9) 1,1,2-Trichlorotrifluo... | 4.100 | 101 | 107518 | 43.412 | ug/l | 99 |
| 10) Methyl Iodide | 4.308 | 142 | 157749 | 44.922 | ug/l | 98 |
| 11) Tert butyl alcohol | 5.216 | 59 | 48254 | 229.131 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 4.082 | 96 | 120156 | 44.059 | ug/l | 95 |
| 13) Acrolein | 3.930 | 56 | 65364 | 194.795 | ug/l | 95 |
| 14) Allyl chloride | 4.704 | 41 | 176474 | 44.462 | ug/l | 99 |
| 15) Acrylonitrile | 5.405 | 53 | 195391 | 238.510 | ug/l | 99 |
| 16) Acetone | 4.161 | 43 | 152843 | 202.983 | ug/l | 99 |
| 17) Carbon Disulfide | 4.423 | 76 | 316067 | 43.178 | ug/l # | 94 |
| 18) Methyl Acetate | 4.710 | 43 | 131388 | 55.142 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.466 | 73 | 231312 | 48.139 | ug/l | 99 |
| 20) Methylene Chloride | 4.960 | 84 | 143735 | 41.285 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 5.460 | 96 | 133902 | 46.267 | ug/l | 95 |
| 22) Diisopropyl ether | 6.344 | 45 | 401086 | 47.935 | ug/l | 100 |
| 23) Vinyl Acetate | 6.283 | 43 | 1283164 | 233.574 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 6.246 | 63 | 242514 | 45.363 | ug/l | 99 |
| 25) 2-Butanone | 7.197 | 43 | 255523 | 238.766 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 7.191 | 77 | 113466 | 42.306 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 7.191 | 96 | 162586 | 48.061 | ug/l | 98 |
| 28) Bromochloromethane | 7.533 | 49 | 119080 | 48.947 | ug/l | 100 |
| 29) Tetrahydrofuran | 7.551 | 42 | 173149 | 245.333 | ug/l | 99 |
| 30) Chloroform | 7.691 | 83 | 267886 | 47.266 | ug/l | 100 |
| 31) Cyclohexane | 7.971 | 56 | 200498 | 43.259 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 7.886 | 97 | 185041 | 44.949 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 8.093 | 75 | 180151 | 47.825 | ug/l | 99 |
| 37) Ethyl Acetate | 7.277 | 43 | 110057 | 49.608 | ug/l | 99 |
| 38) Carbon Tetrachloride | 8.087 | 117 | 167458 | 46.065 | ug/l | 94 |
| 39) Methylcyclohexane | 9.343 | 83 | 221584 | 48.261 | ug/l | 98 |
| 40) Benzene | 8.337 | 78 | 560623 | 47.879 | ug/l | 96 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032078.D
Acq On : 11 Aug 2025 19:31
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Aug 12 04:30:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.502 | 41 | 62009 | 49.286 | ug/l | | 94 |
| 42) 1,2-Dichloroethane | 8.410 | 62 | 180455 | 48.163 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.435 | 43 | 200606 | 49.147 | ug/l | | 99 |
| 44) Trichloroethene | 9.099 | 130 | 129965 | 46.608 | ug/l | | 98 |
| 45) 1,2-Dichloropropane | 9.380 | 63 | 138731 | 49.043 | ug/l | | 99 |
| 46) Dibromomethane | 9.465 | 93 | 89360 | 48.945 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.654 | 83 | 205517 | 48.852 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.441 | 41 | 101426 | 51.471 | ug/l | | 98 |
| 49) 1,4-Dioxane | 9.459 | 88 | 23641 | 1001.497 | ug/l | | 99 |
| 51) 4-Methyl-2-Pentanone | 10.215 | 43 | 581370 | 252.344 | ug/l | | 100 |
| 52) Toluene | 10.392 | 92 | 363384 | 49.271 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.611 | 75 | 188585 | 47.848 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 10.075 | 75 | 216528 | 48.425 | ug/l | | 97 |
| 55) 1,1,2-Trichloroethane | 10.788 | 97 | 118978 | 49.042 | ug/l | | 98 |
| 56) Ethyl methacrylate | 10.648 | 69 | 166567 | 51.306 | ug/l | | 100 |
| 57) 1,3-Dichloropropane | 10.934 | 76 | 204220 | 48.292 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.928 | 63 | 476248 | 265.209 | ug/l | | 99 |
| 59) 2-Hexanone | 10.971 | 43 | 404553 | 253.545 | ug/l | | 100 |
| 60) Dibromochloromethane | 11.129 | 129 | 134574 | 48.560 | ug/l | | 97 |
| 61) 1,2-Dibromoethane | 11.239 | 107 | 115961 | 49.186 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.861 | 164 | 103230 | 44.767 | ug/l | | 92 |
| 65) Chlorobenzene | 11.660 | 112 | 390137 | 44.896 | ug/l | | 95 |
| 66) 1,1,1,2-Tetrachloroethane | 11.727 | 131 | 125374 | 46.243 | ug/l | | 98 |
| 67) Ethyl Benzene | 11.733 | 91 | 674717 | 45.839 | ug/l | | 97 |
| 68) m/p-Xylenes | 11.837 | 106 | 509322 | 89.674 | ug/l | | 96 |
| 69) o-Xylene | 12.166 | 106 | 249805 | 47.586 | ug/l | | 99 |
| 70) Styrene | 12.178 | 104 | 444091 | 47.626 | ug/l | | 99 |
| 71) Bromoform | 12.349 | 173 | 74729 | 48.185 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.465 | 105 | 615630 | 48.421 | ug/l | | 100 |
| 74) N-amyl acetate | 12.270 | 43 | 174844 | 47.933 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.715 | 83 | 143342 | 47.484 | ug/l | | 98 |
| 76) 1,2,3-Trichloropropane | 12.763 | 75 | 132741m | 53.760 | ug/l | | |
| 77) Bromobenzene | 12.745 | 156 | 145348 | 47.865 | ug/l | | 97 |
| 78) n-propylbenzene | 12.806 | 91 | 756214 | 48.311 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.891 | 91 | 469293 | 48.578 | ug/l | | 98 |
| 80) 1,3,5-Trimethylbenzene | 12.940 | 105 | 534122 | 49.484 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.513 | 75 | 43908 | 46.037 | ug/l | | 97 |
| 82) 4-Chlorotoluene | 12.989 | 91 | 487171 | 47.464 | ug/l | | 98 |
| 83) tert-Butylbenzene | 13.202 | 119 | 433786 | 48.424 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.245 | 105 | 543640 | 49.477 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.379 | 105 | 643083 | 47.482 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.495 | 119 | 549955 | 48.708 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.495 | 146 | 278295 | 46.057 | ug/l | | 93 |
| 88) 1,4-Dichlorobenzene | 13.574 | 146 | 277410 | 45.431 | ug/l | | 98 |
| 89) n-Butylbenzene | 13.818 | 91 | 531065 | 48.414 | ug/l | | 100 |
| 90) Hexachloroethane | 14.086 | 117 | 94529 | 45.779 | ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 13.867 | 146 | 269607 | 49.256 | ug/l | | 96 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.476 | 75 | 25079 | 46.732 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 15.129 | 180 | 155733 | 47.562 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.226 | 225 | 65688 | 44.879 | ug/l | | 96 |
| 95) Naphthalene | 15.360 | 128 | 397425 | 49.535 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.549 | 180 | 152914 | 51.327 | ug/l | | 95 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032078.D
Acq On : 11 Aug 2025 19:31
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Aug 12 04:30:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

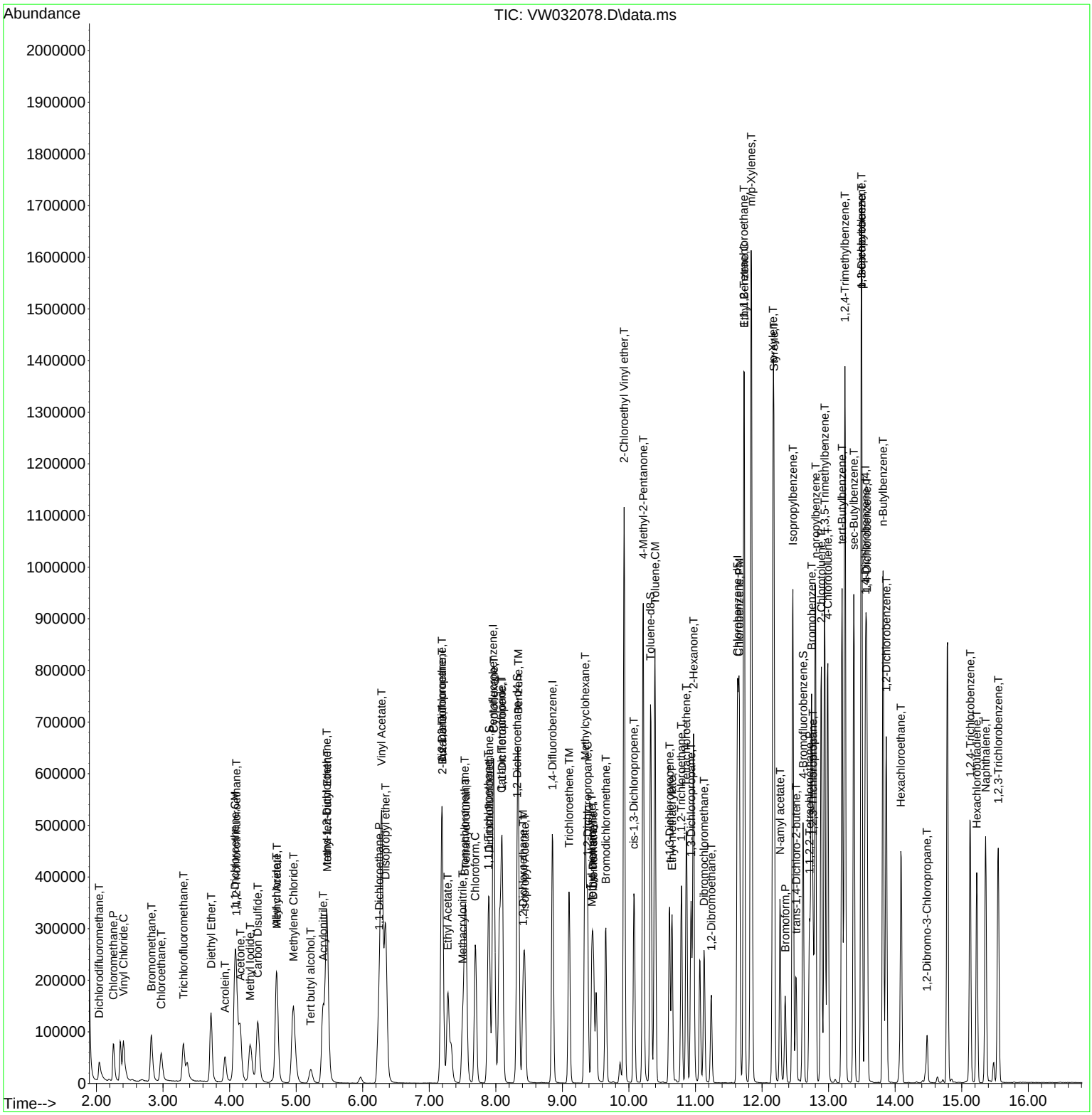
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032078.D
Acq On : 11 Aug 2025 19:31
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 29 Sample Multiplier: 1

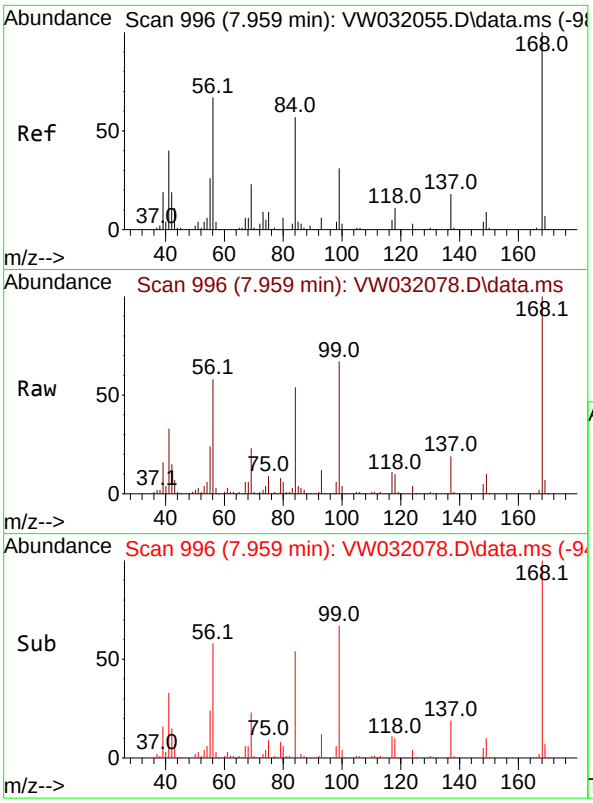
Quant Time: Aug 12 04:30:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

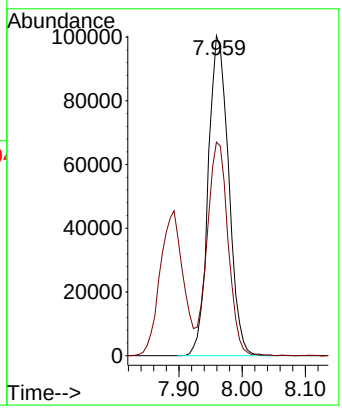





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:168 Resp: 22487

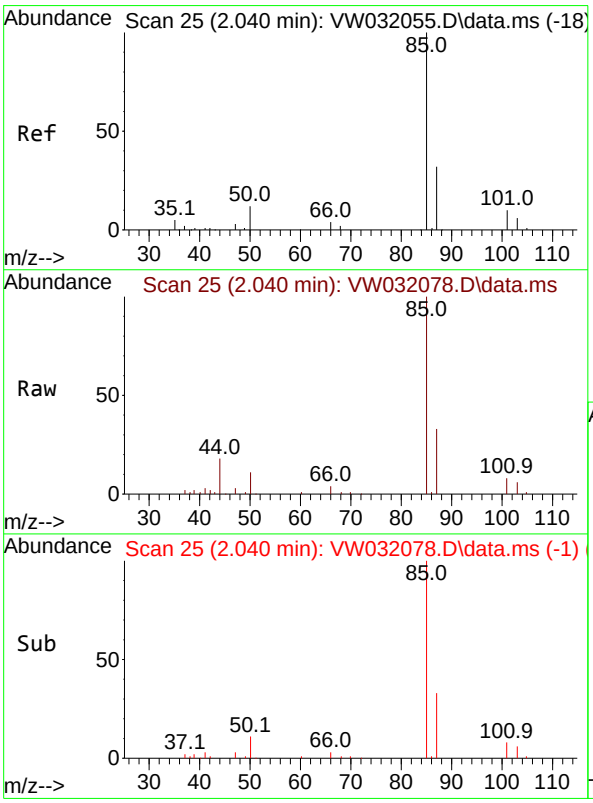
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 66.7 | 56.0 | 84.0 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

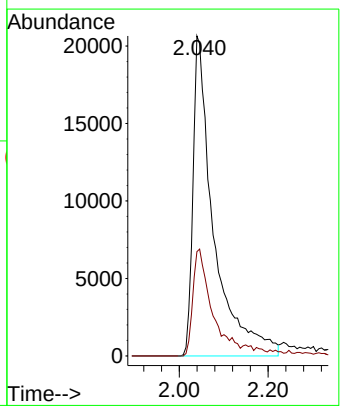
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

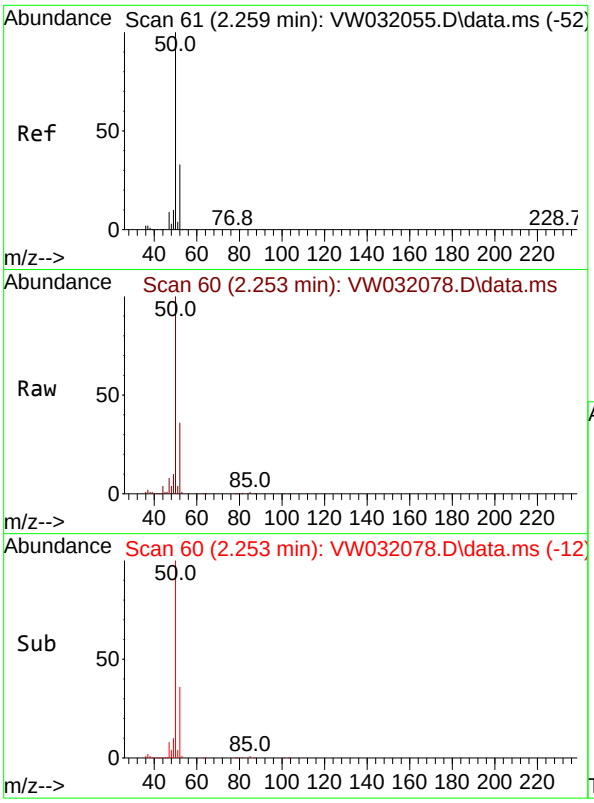



#2
Dichlorodifluoromethane
Concen: 41.544 ug/l
RT: 2.040 min Scan# 25
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 85 Resp: 66817

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.6 | 16.2 | 48.6 |

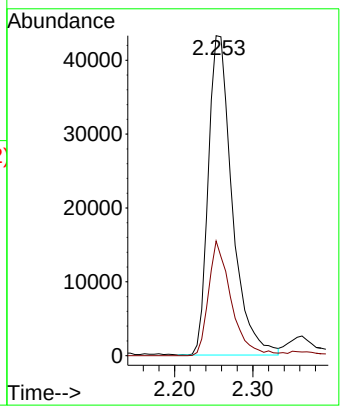





#3
Chloromethane
Concen: 42.300 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 50 Resp: 9164

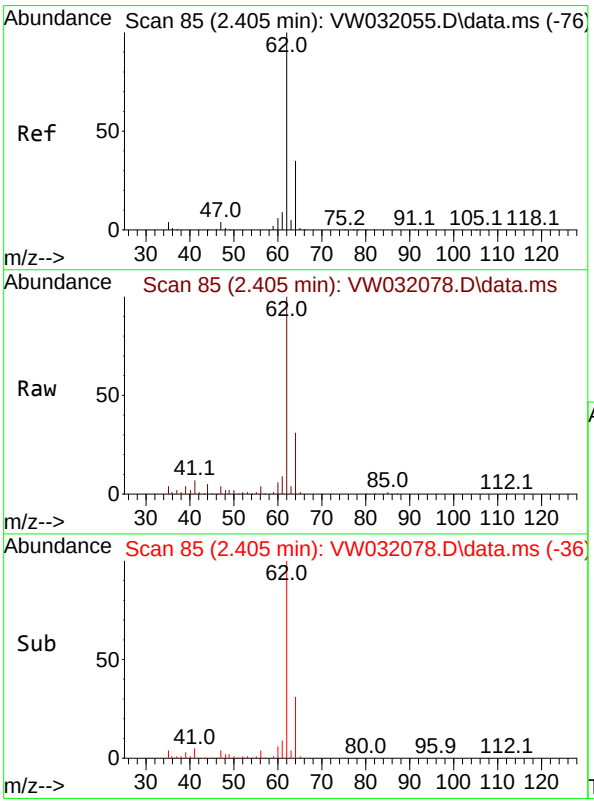
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 35.9 | 26.6 | 39.8 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

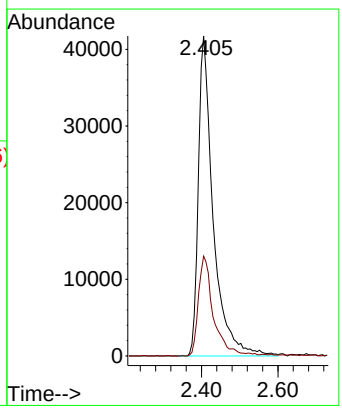
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

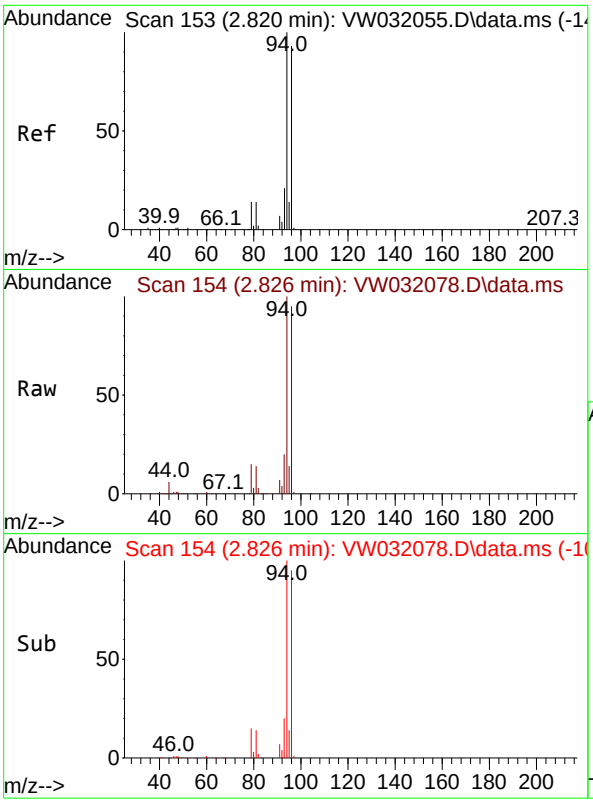



#4
Vinyl Chloride
Concen: 42.835 ug/l
RT: 2.405 min Scan# 85
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 62 Resp: 112251

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.2 | 27.8 | 41.6 |

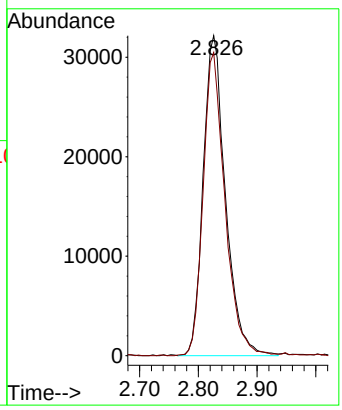





#5
Bromomethane
Concen: 43.036 ug/l
RT: 2.826 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 94 Resp: 8461

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 94.5 | 74.7 | 112.1 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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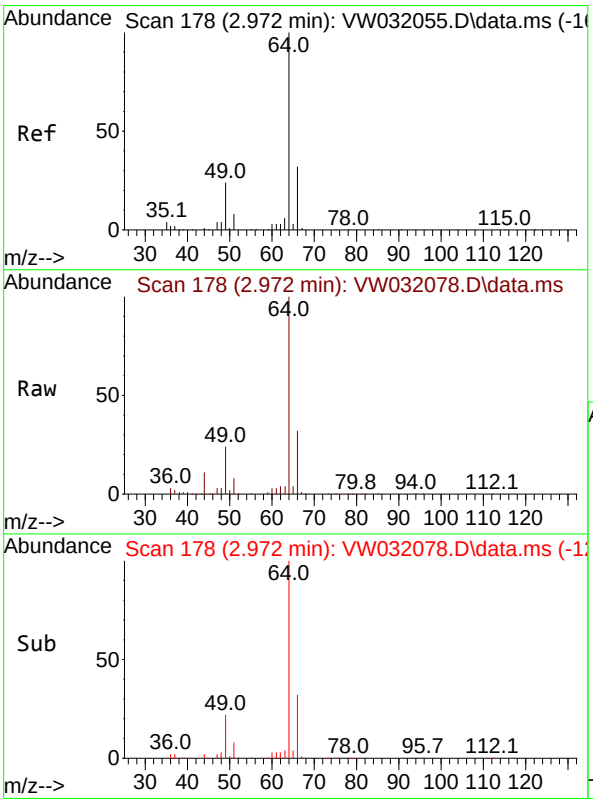
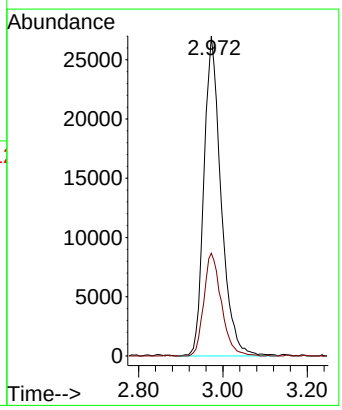
Supervised By :Semsettin Yesilyurt 08/12/2025

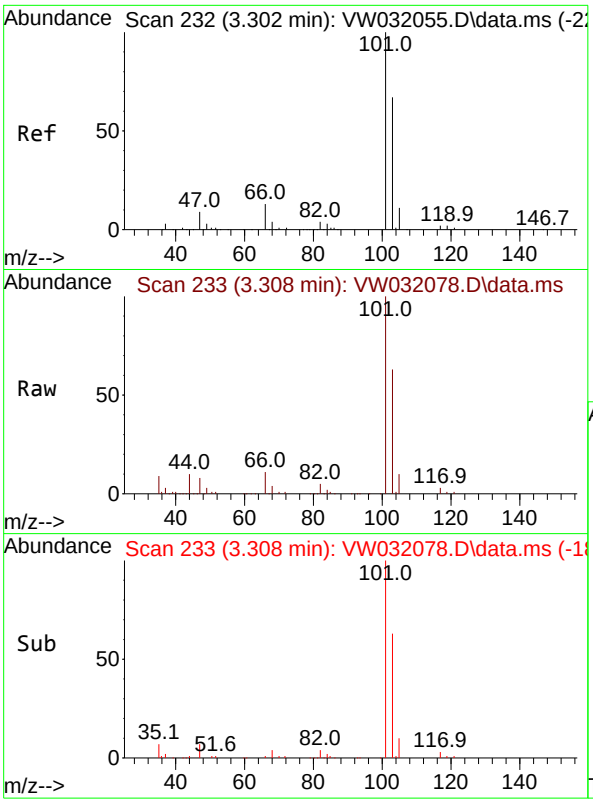



#6
Chloroethane
Concen: 44.108 ug/l
RT: 2.972 min Scan# 178
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 64 Resp: 76486

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.1 | 26.0 | 39.0 |

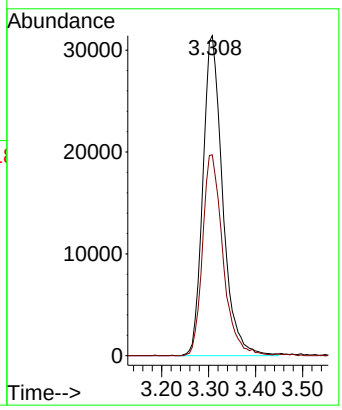





#7
Trichlorofluoromethane
Concen: 43.678 ug/l
RT: 3.308 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:101 Resp: 9169

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 62.8 | 53.4 | 80.0 |




**Instrument :**
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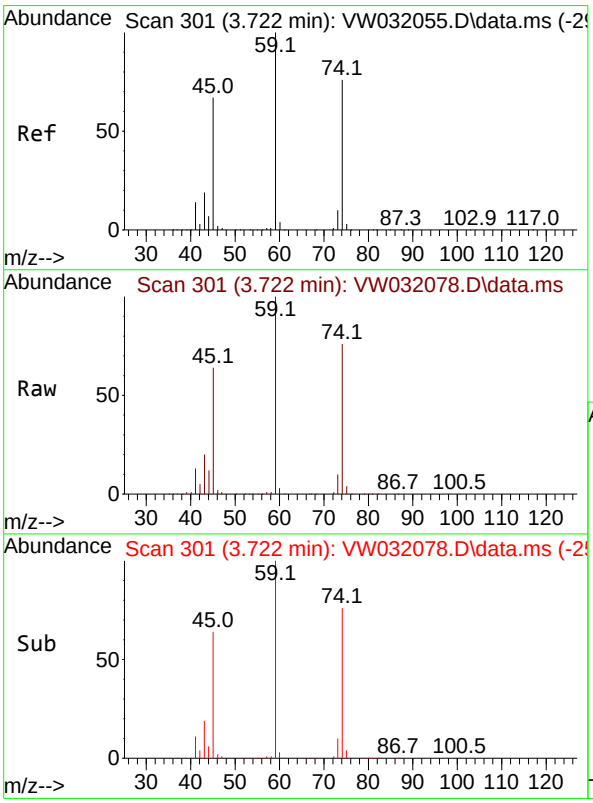
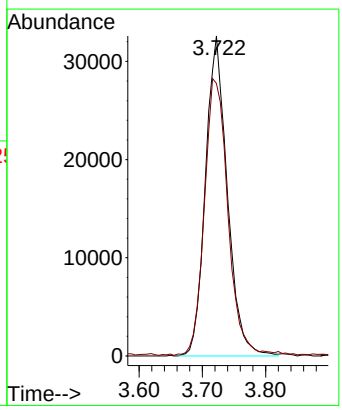
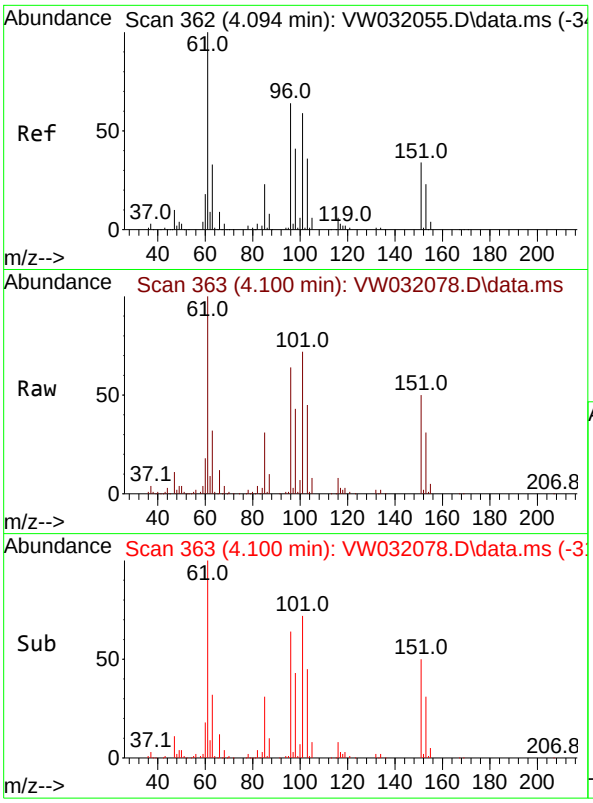



#8
Diethyl Ether
Concen: 45.468 ug/l
RT: 3.722 min Scan# 301
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 74 Resp: 78203

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 93.6 | 45.4 | 136.2 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 43.412 ug/l
RT: 4.100 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:101 Resp: 10751

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 45.0 | 34.9 | 52.3 |
| 151 | 69.8 | 56.2 | 84.4 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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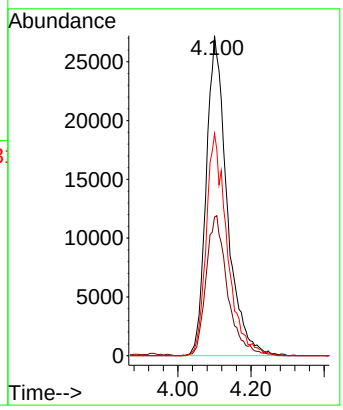
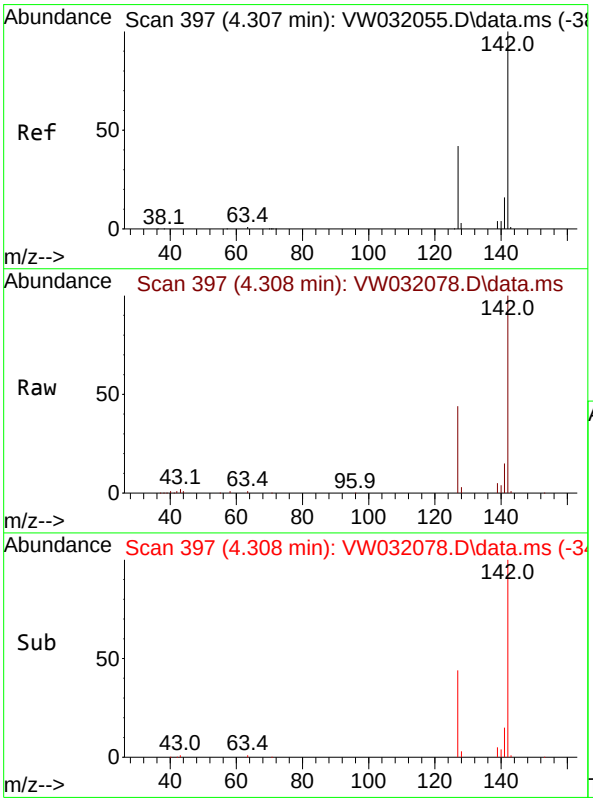
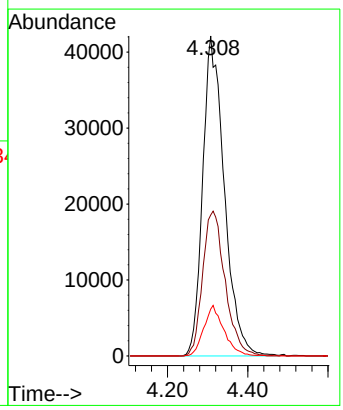


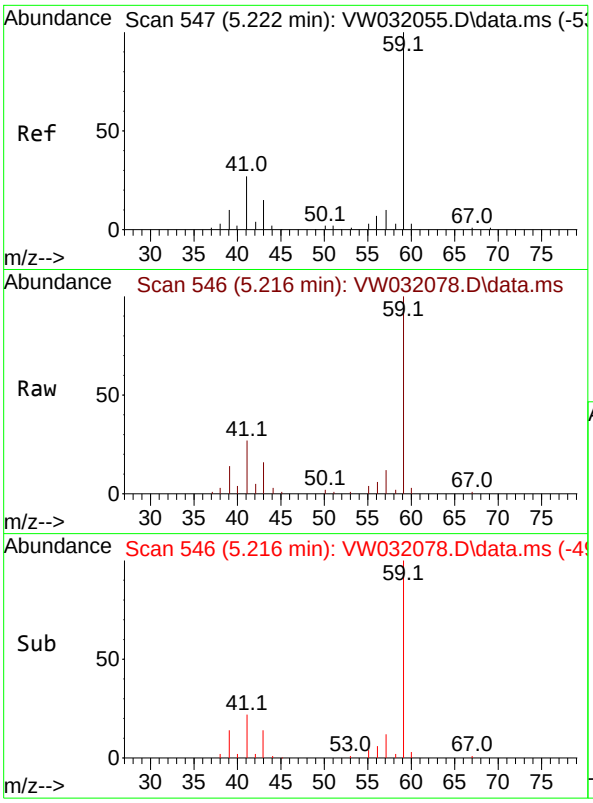




#10
Methyl Iodide
Concen: 44.922 ug/l
RT: 4.308 min Scan# 397
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:142 Resp: 157749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 47.1 | 36.6 | 55.0 |
| 141 | 14.7 | 12.1 | 18.1 |

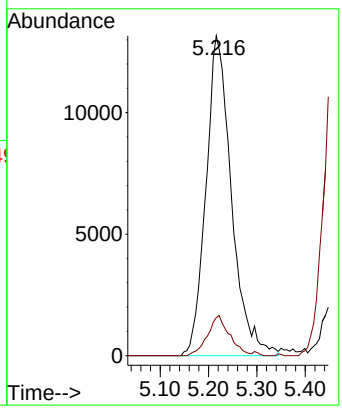





#11
Tert butyl alcohol
Concen: 229.131 ug/l
RT: 5.216 min Scan# 54
Delta R.T. -0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 59 Resp: 4825

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.8 | 8.7 | 13.1 |




**Instrument :**
MSVOA_W
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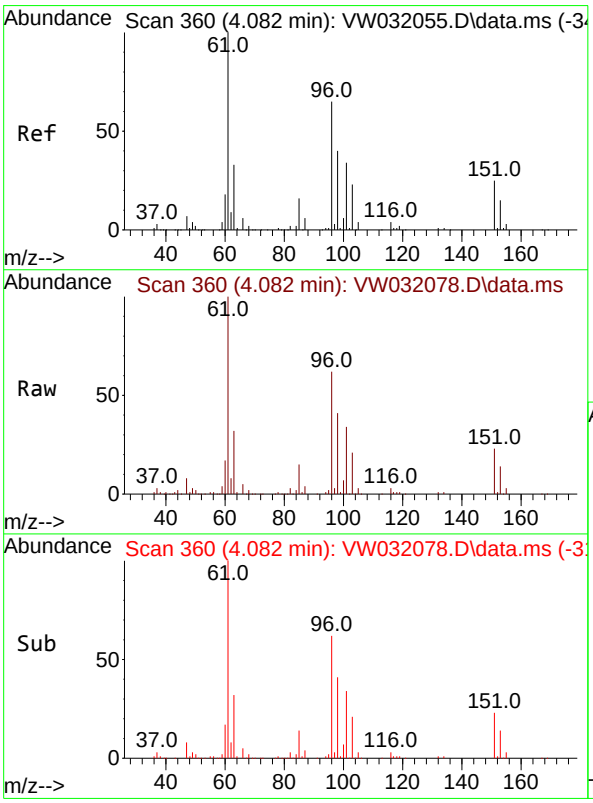
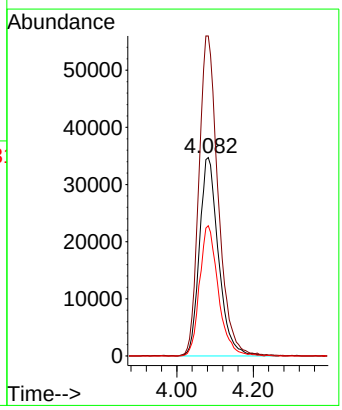
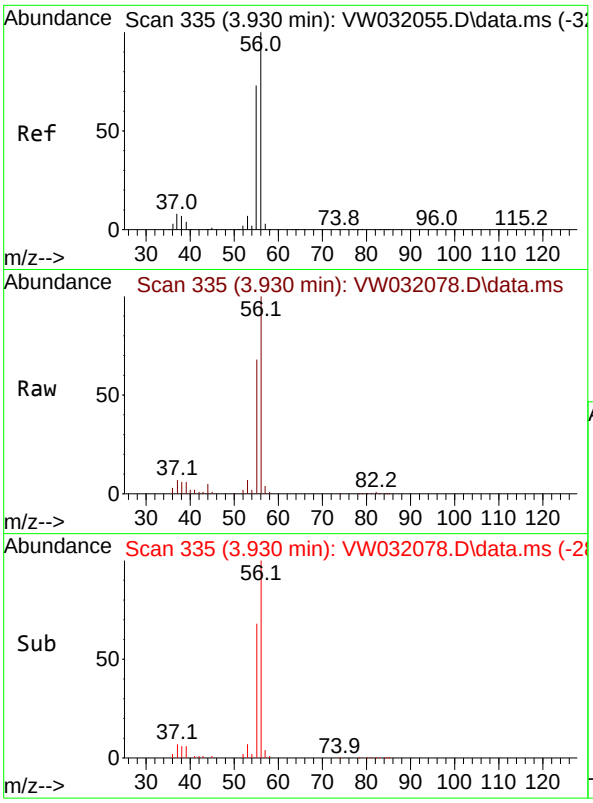



#12
1,1-Dichloroethene
Concen: 44.059 ug/l
RT: 4.082 min Scan# 360
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 96 Resp: 120156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 161.3 | 123.4 | 185.2 |
| 98 | 65.6 | 49.5 | 74.3 |

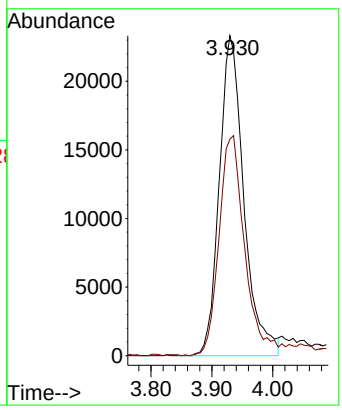





#13
Acrolein
Concen: 194.795 ug/l
RT: 3.930 min Scan# 3
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 56 Resp: 6536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 73.8 | 55.4 | 83.2 |




**Instrument :**
MSVOA_W
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VSTDCCC050EC

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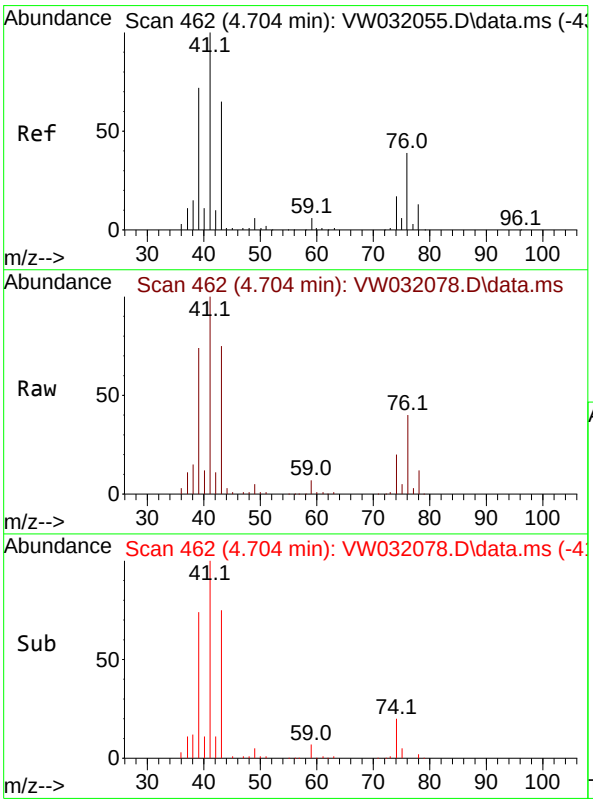
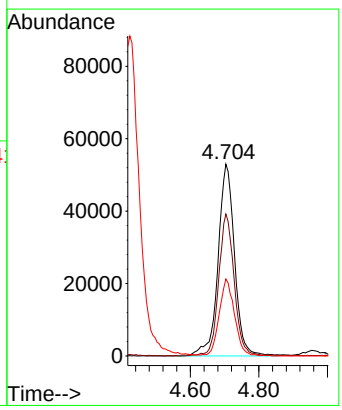
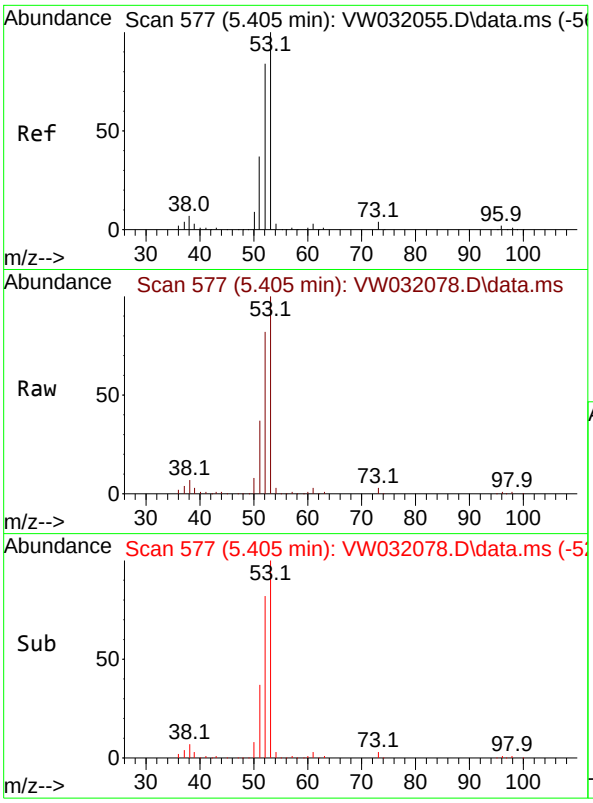



#14
Allyl chloride
Concen: 44.462 ug/l
RT: 4.704 min Scan# 462
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 41 Resp: 176474

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 69.6 | 54.5 | 81.7 |
| 76 | 36.6 | 29.3 | 43.9 |

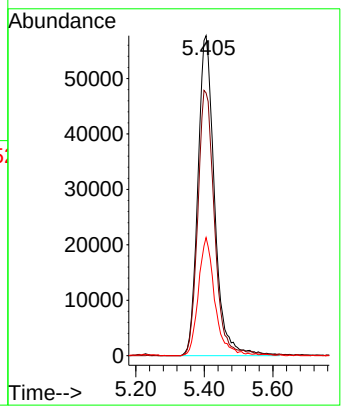





#15
Acrylonitrile
Concen: 238.510 ug/l
RT: 5.405 min Scan# 5
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 53 Resp: 19539

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 83.4 | 66.1 | 99.1 |
| 51 | 36.8 | 29.2 | 43.8 |




**Instrument :**
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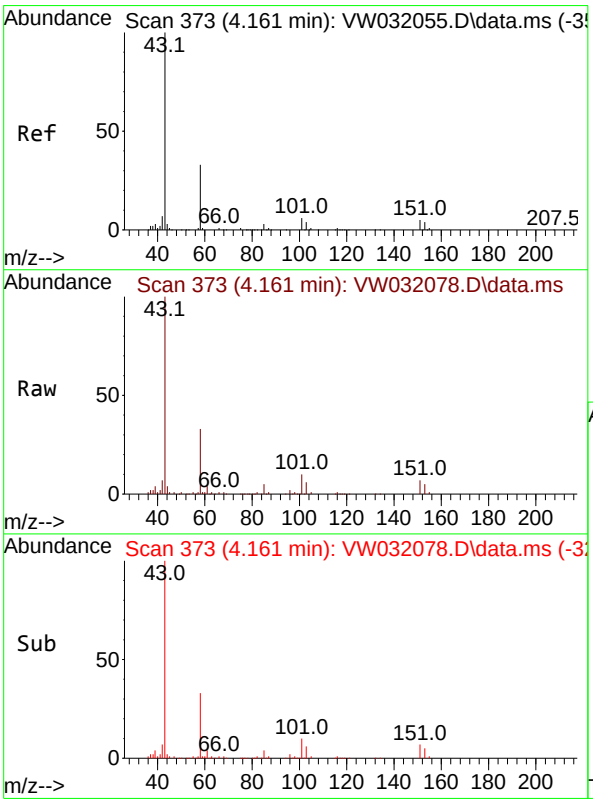
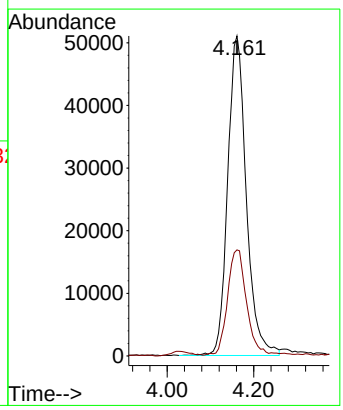
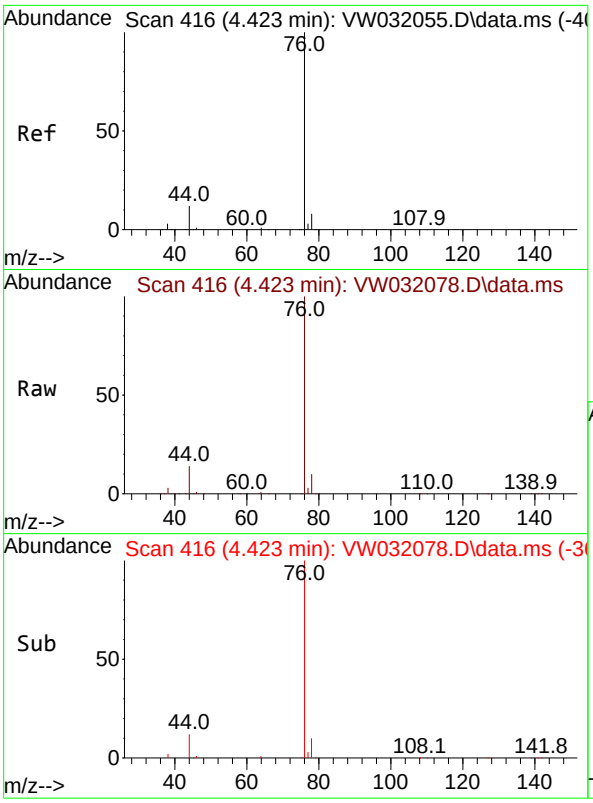



#16
Acetone
Concen: 202.983 ug/l
RT: 4.161 min Scan# 373
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 43 Resp: 152843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.4 | 26.6 | 39.8 |






#17
Carbon Disulfide
Concen: 43.178 ug/l
RT: 4.423 min Scan# 4
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 76 Resp: 31606

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 10.3 | 6.4 | 9.6 |

**Instrument :**
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VSTDCCC050EC

**Manual Integrations APPROVED**

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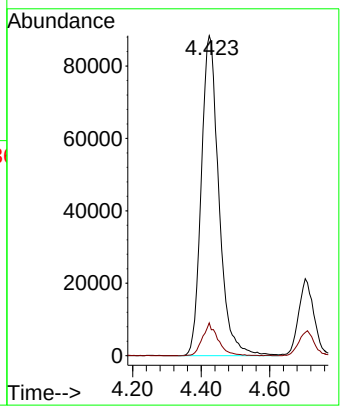
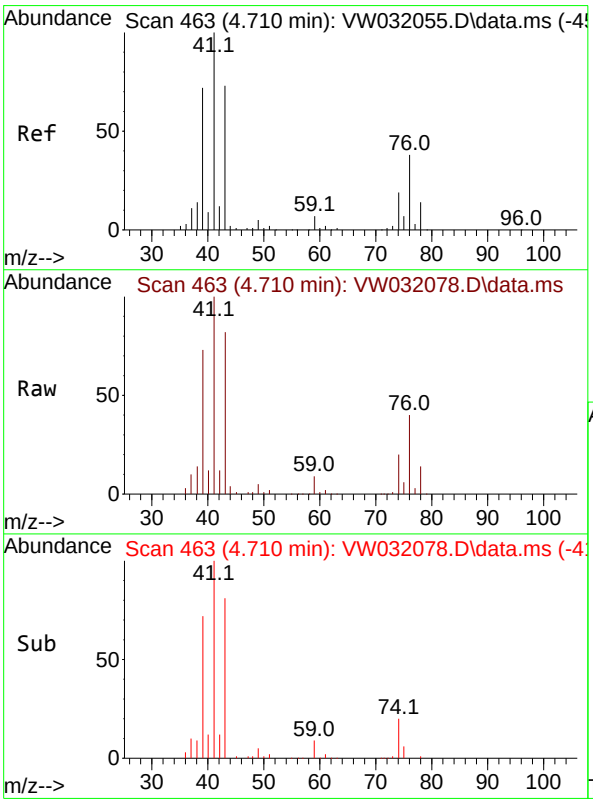
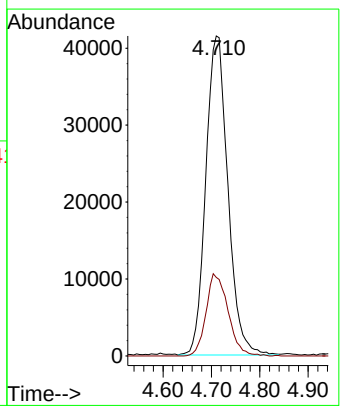


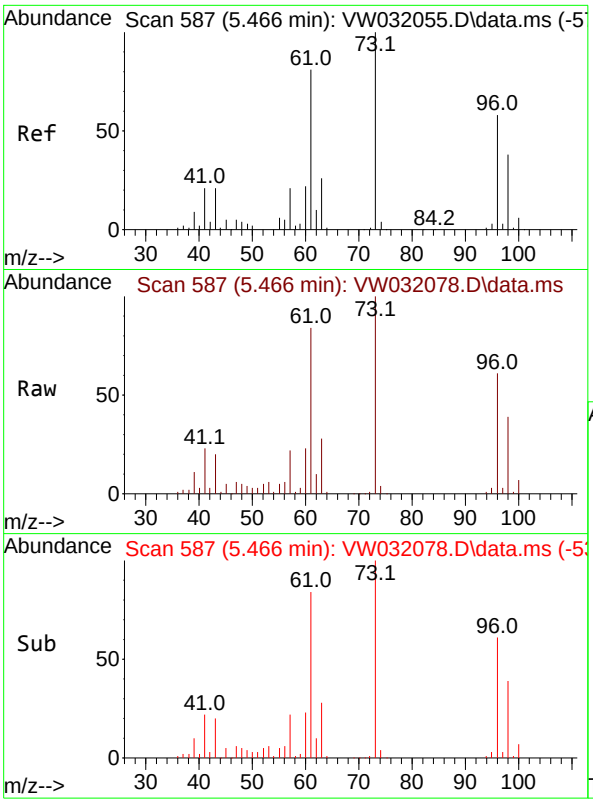




#18
Methyl Acetate
Concen: 55.142 ug/l
RT: 4.710 min Scan# 463
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 43 Resp: 131388

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 25.7 | 20.6 | 31.0 |

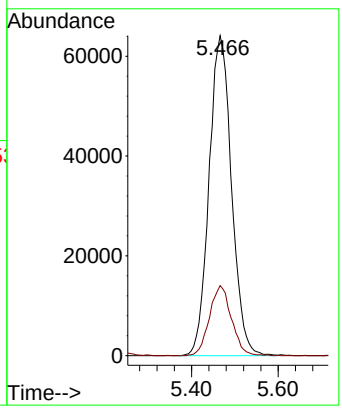





#19
Methyl tert-butyl Ether
Concen: 48.139 ug/l
RT: 5.466 min Scan# 5
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 73 Resp: 23131

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.9 | 17.2 | 25.8 |

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MSVOA_W
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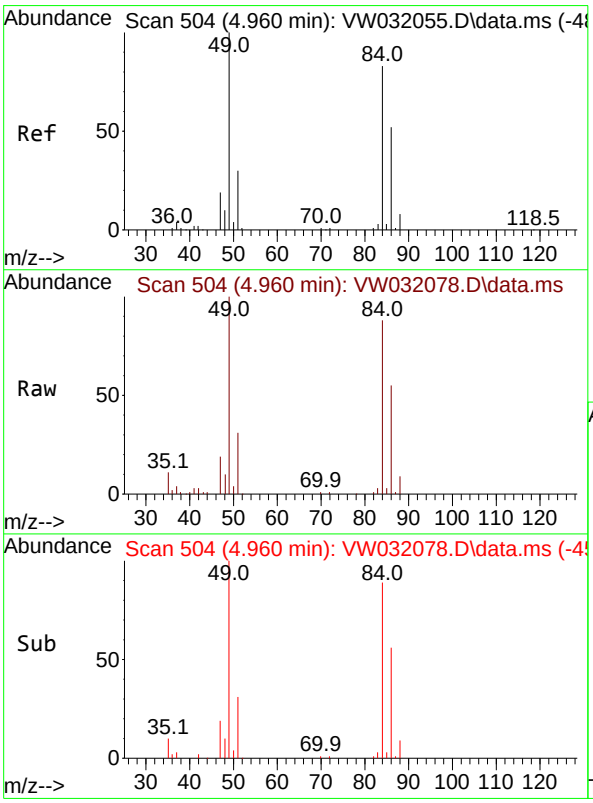
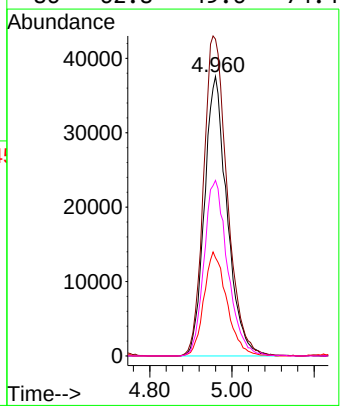
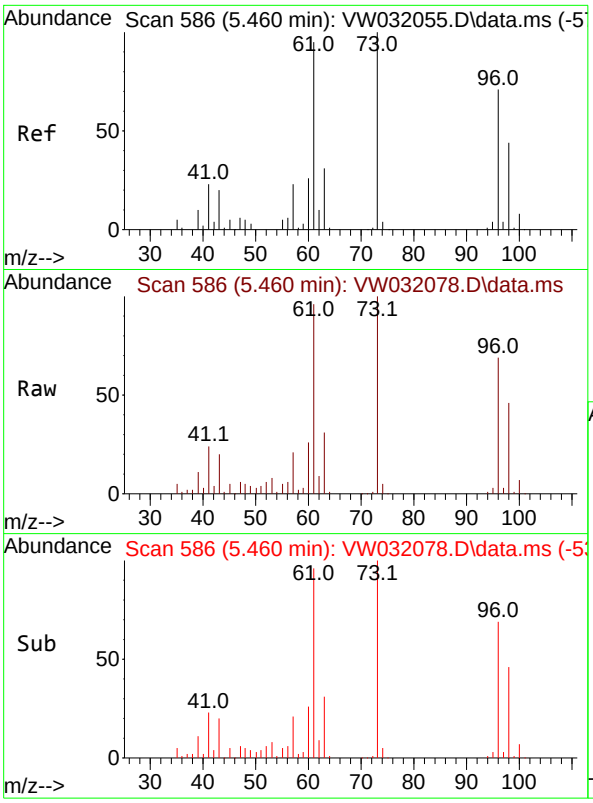



#20
Methylene Chloride
Concen: 41.285 ug/l
RT: 4.960 min Scan# 504
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 84 Resp: 143735

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 113.4 | 95.9 | 143.9 |
| 51 | 35.1 | 28.6 | 43.0 |
| 86 | 62.8 | 49.6 | 74.4 |

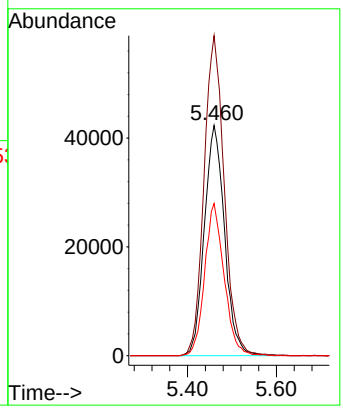





#21
trans-1,2-Dichloroethene
Concen: 46.267 ug/l
RT: 5.460 min Scan# 5
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 96 Resp: 13390

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 139.0 | 106.8 | 160.2 |
| 98 | 66.1 | 49.6 | 74.4 |

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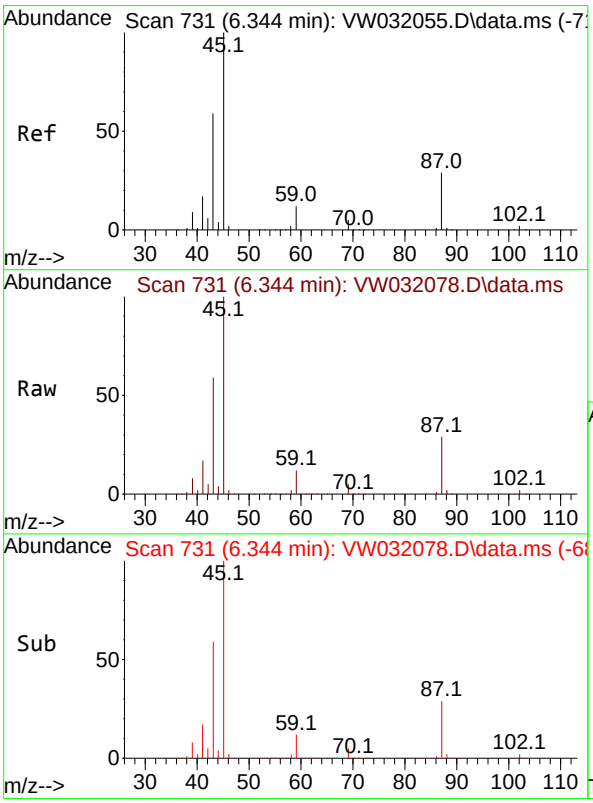
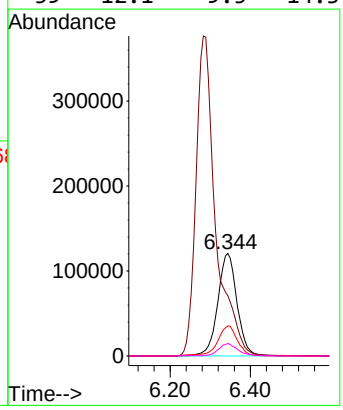
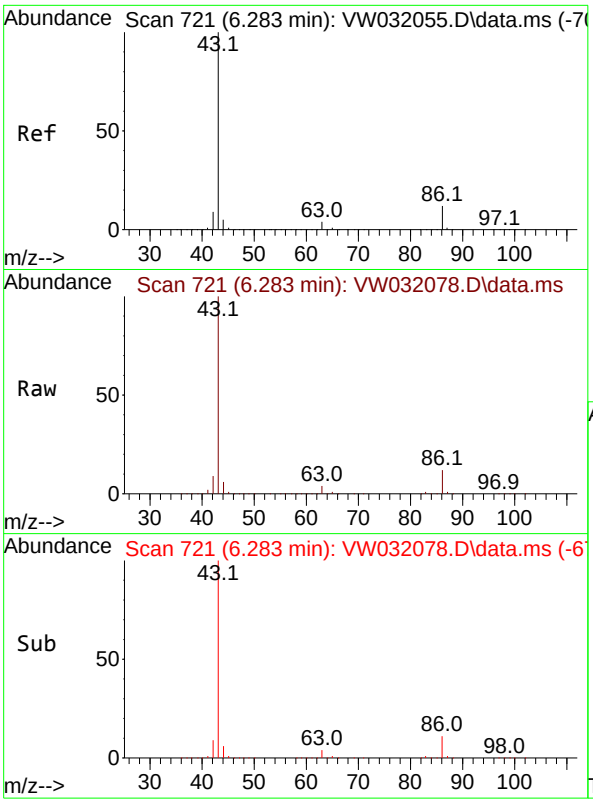



#22
Diisopropyl ether
Concen: 47.935 ug/l
RT: 6.344 min Scan# 731
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 45 Resp: 401086

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 58.5 | 47.0 | 70.4 |
| 87 | 29.3 | 23.8 | 35.8 |
| 59 | 12.1 | 9.5 | 14.3 |






#23
Vinyl Acetate
Concen: 233.574 ug/l
RT: 6.283 min Scan# 7
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

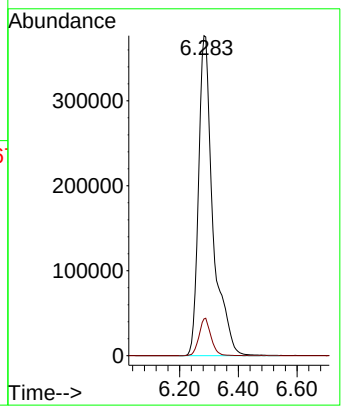
Tgt Ion: 43 Resp: 128316

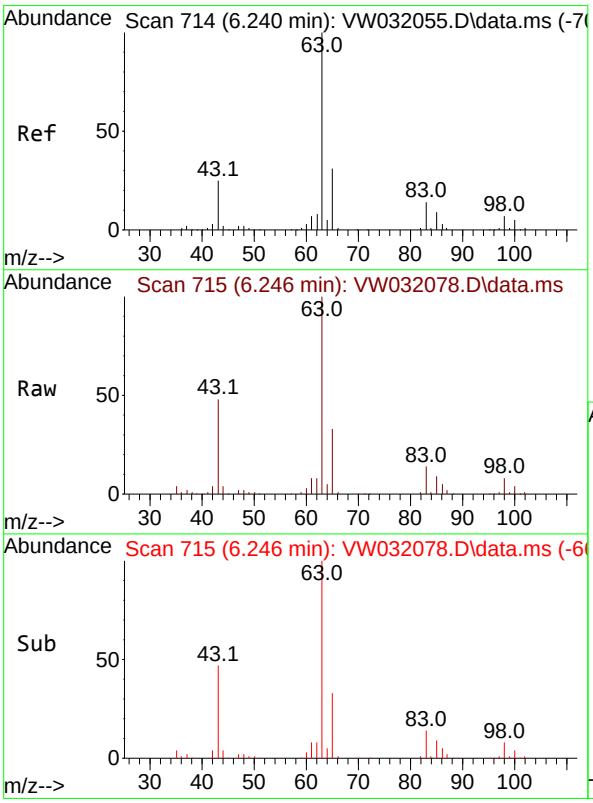
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.5 | 9.4 | 14.0 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

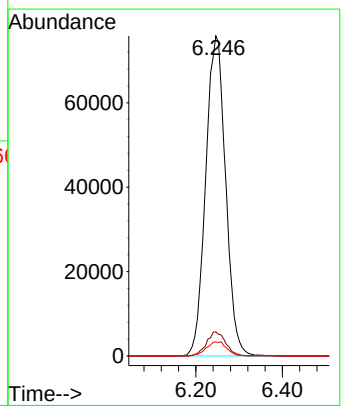


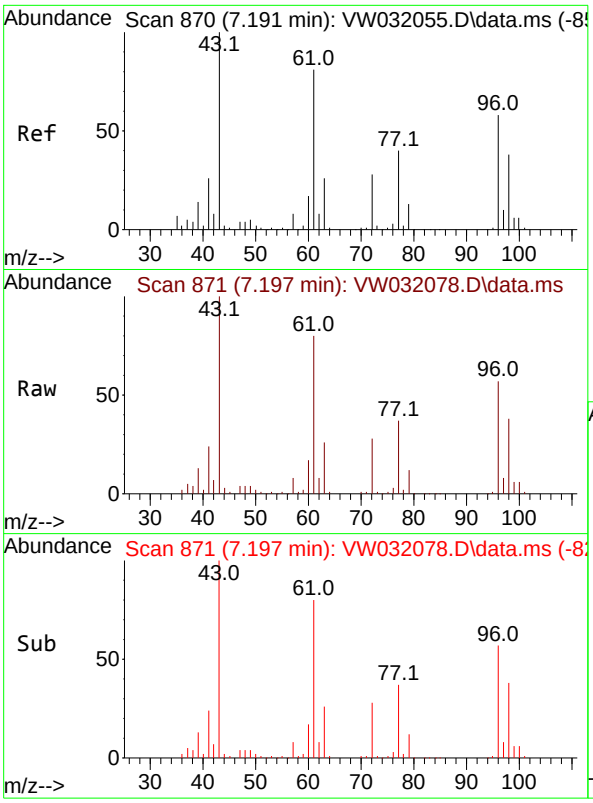




#24
1,1-Dichloroethane
Concen: 45.363 ug/l
RT: 6.246 min Scan# 715
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 63 Resp: 242514

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.5 | 3.7 | 11.1 |
| 100 | 4.4 | 2.5 | 7.4 |






#25
2-Butanone
Concen: 238.766 ug/l
RT: 7.197 min Scan# 8
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 43 Resp: 25552

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 27.8 | 22.3 | 33.5 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

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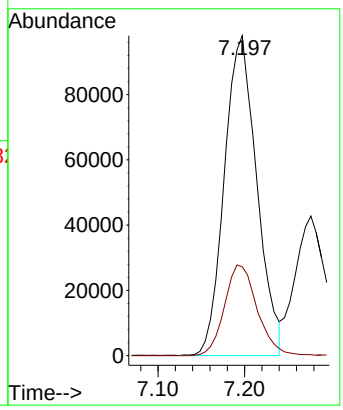
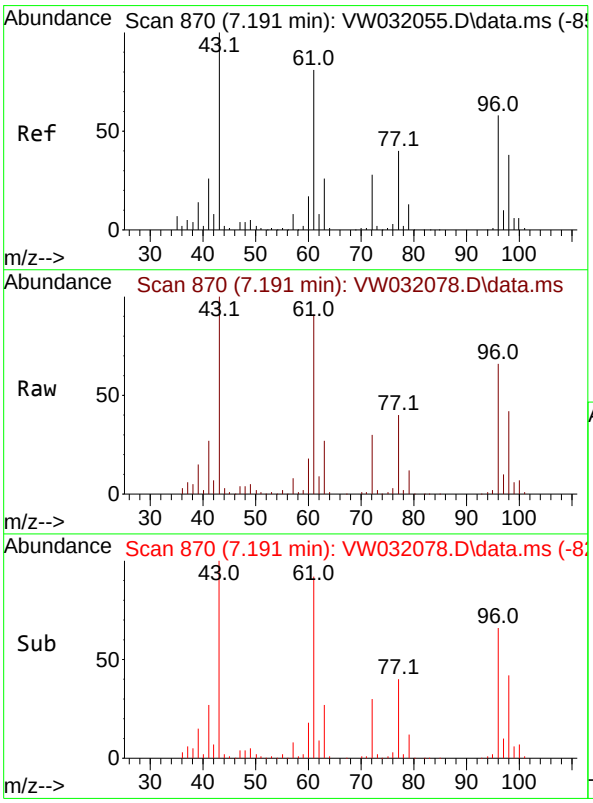
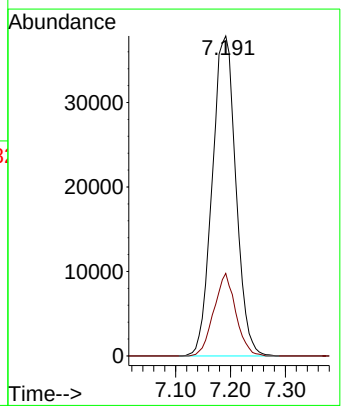


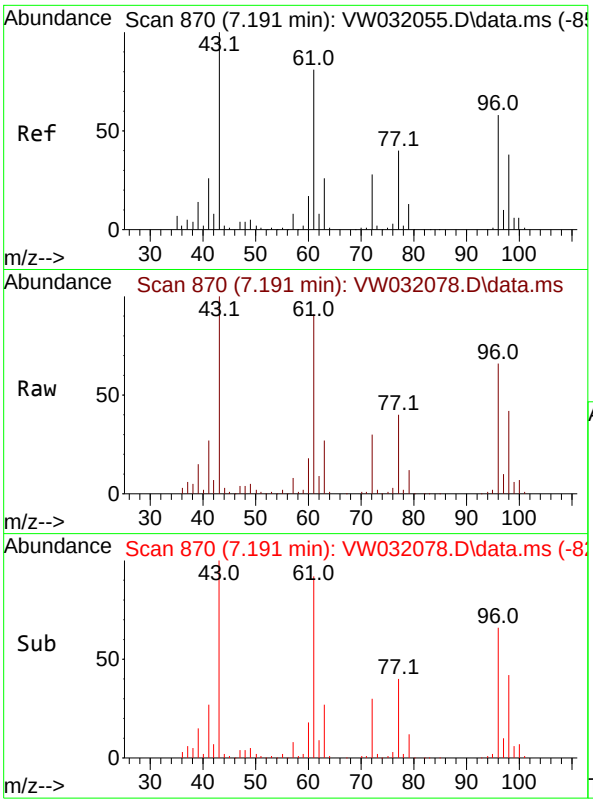




#26
2,2-Dichloropropane
Concen: 42.306 ug/l
RT: 7.191 min Scan# 870
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 77 Resp: 113466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 24.0 | 12.3 | 36.9 |

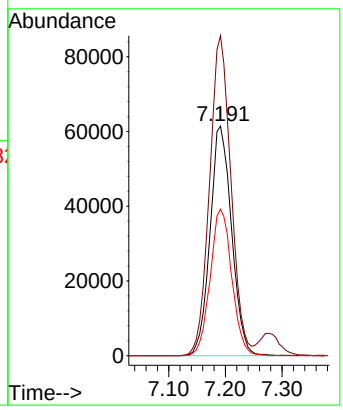





#27
cis-1,2-Dichloroethene
Concen: 48.061 ug/l
RT: 7.191 min Scan# 8
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 96 Resp: 16258

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 137.9 | 0.0 | 281.2 |
| 98 | 63.8 | 0.0 | 130.8 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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Reviewed By :Mahesh Dadoda 08/12/2025
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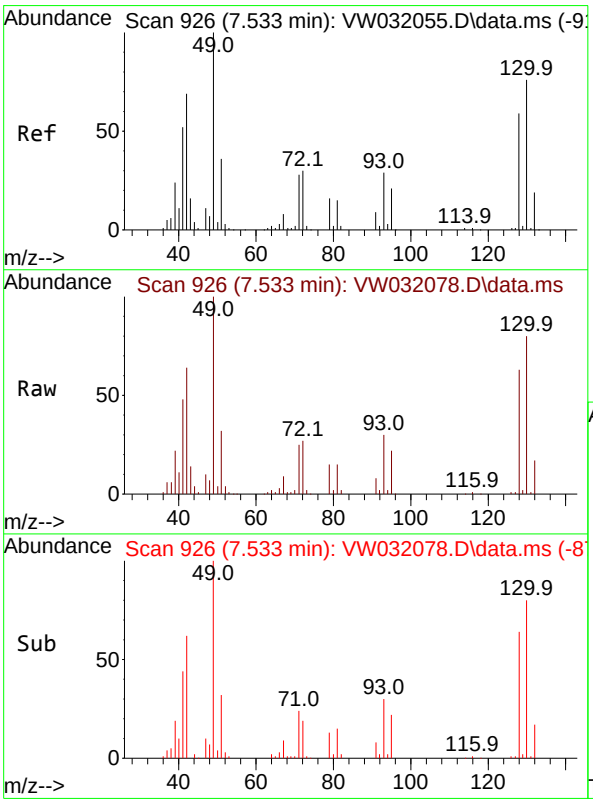
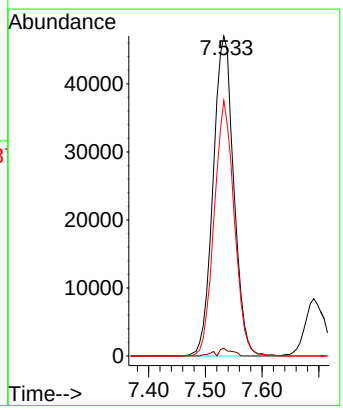
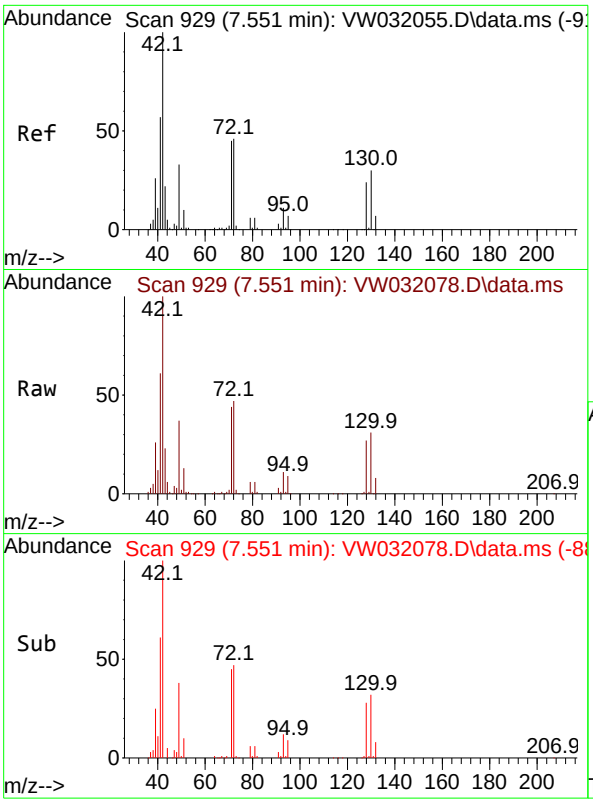



#28
Bromochloromethane
Concen: 48.947 ug/l
RT: 7.533 min Scan# 926
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 49 Resp: 119080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.8 | 0.0 | 4.2 |
| 130 | 77.4 | 61.9 | 92.9 |

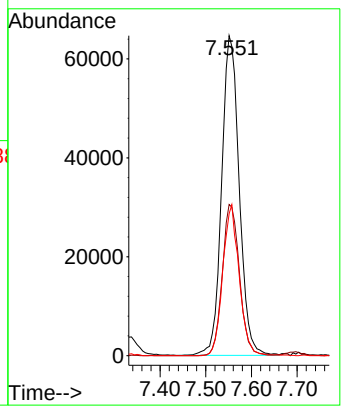





#29
Tetrahydrofuran
Concen: 245.333 ug/l
RT: 7.551 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 42 Resp: 17314

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 46.2 | 36.6 | 55.0 |
| 71 | 43.9 | 34.7 | 52.1 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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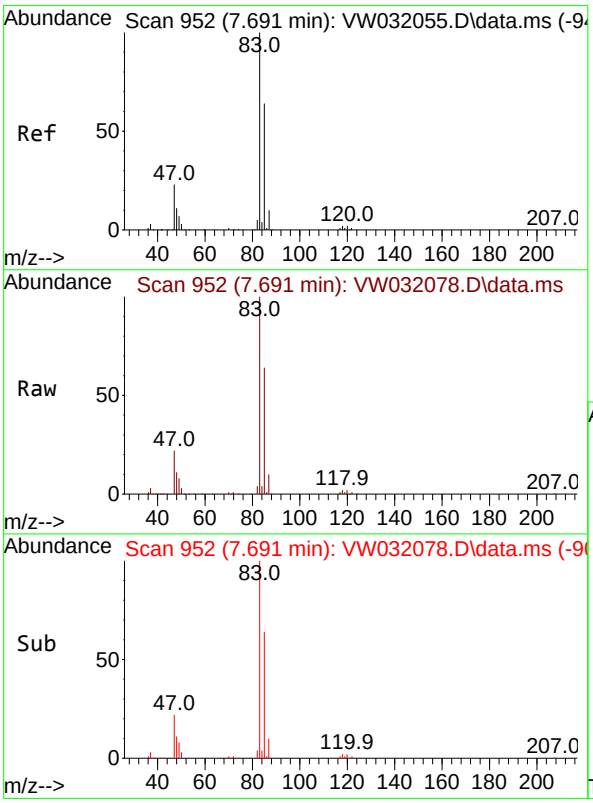
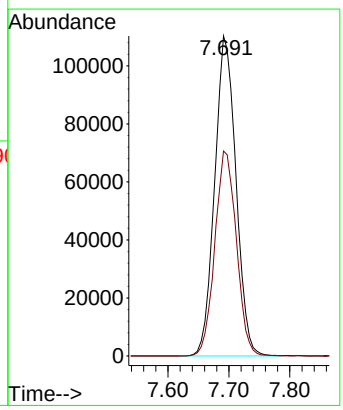
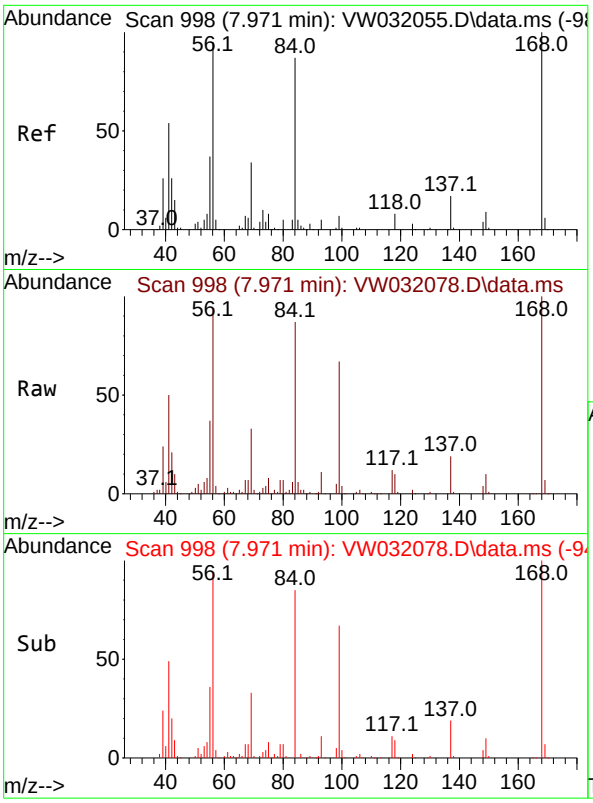



#30
Chloroform
Concen: 47.266 ug/l
RT: 7.691 min Scan# 952
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 83 Resp: 267886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.1 | 51.0 | 76.4 |

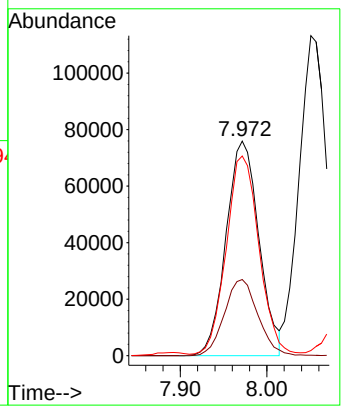





#31
Cyclohexane
Concen: 43.259 ug/l
RT: 7.971 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 56 Resp: 20049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 35.5 | 28.6 | 42.8 |
| 84 | 91.7 | 73.0 | 109.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

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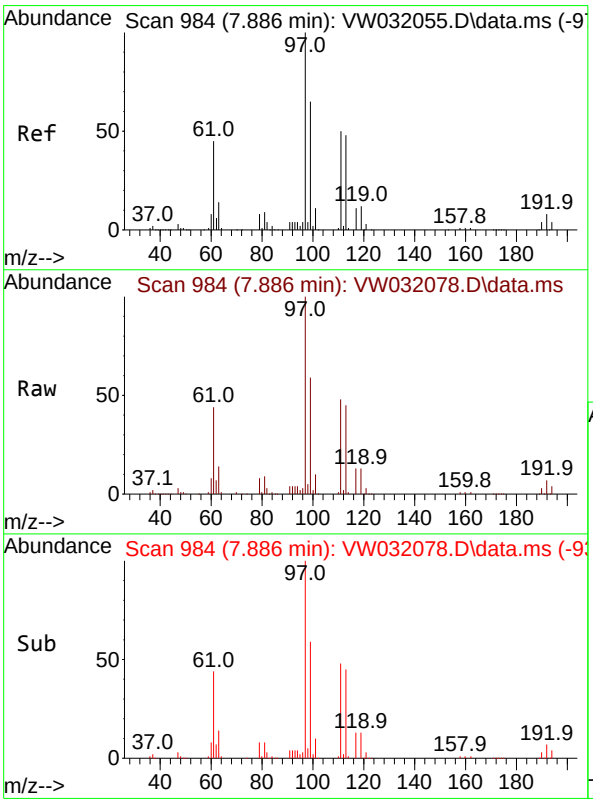
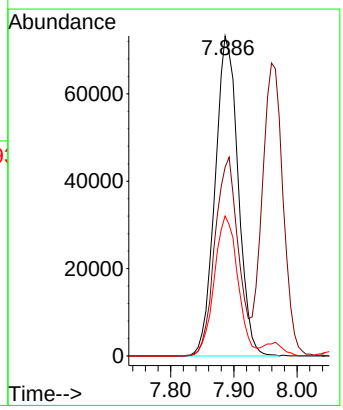
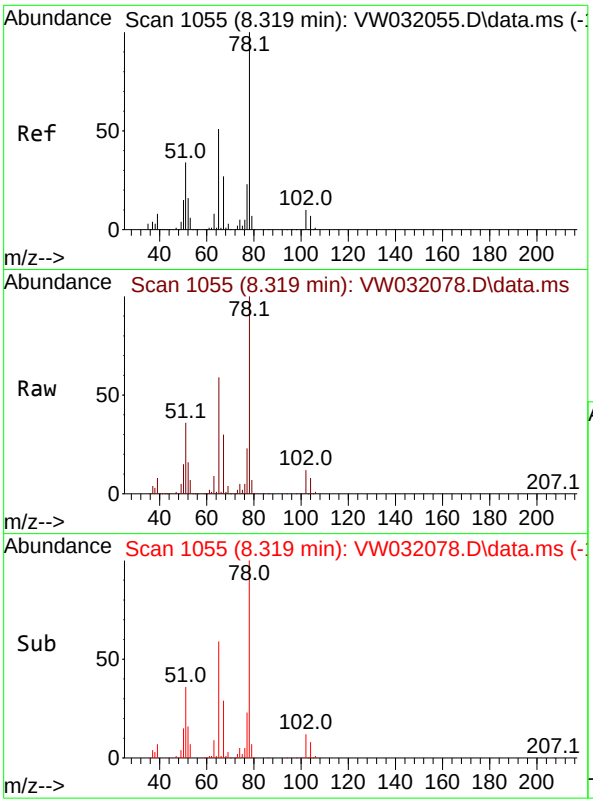



#32
1,1,1-Trichloroethane
Concen: 44.949 ug/l
RT: 7.886 min Scan# 984
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 97 Resp: 185041

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 62.2 | 51.8 | 77.8 |
| 61 | 44.8 | 35.9 | 53.9 |

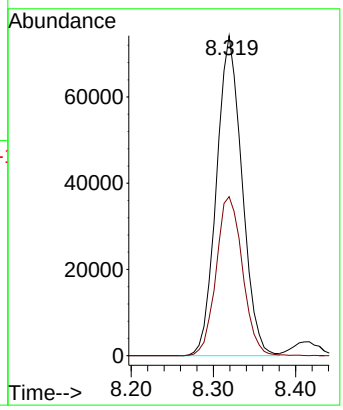





#33
1,2-Dichloroethane-d4
Concen: 49.202 ug/l
RT: 8.319 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 65 Resp: 16001

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.3 | 0.0 | 102.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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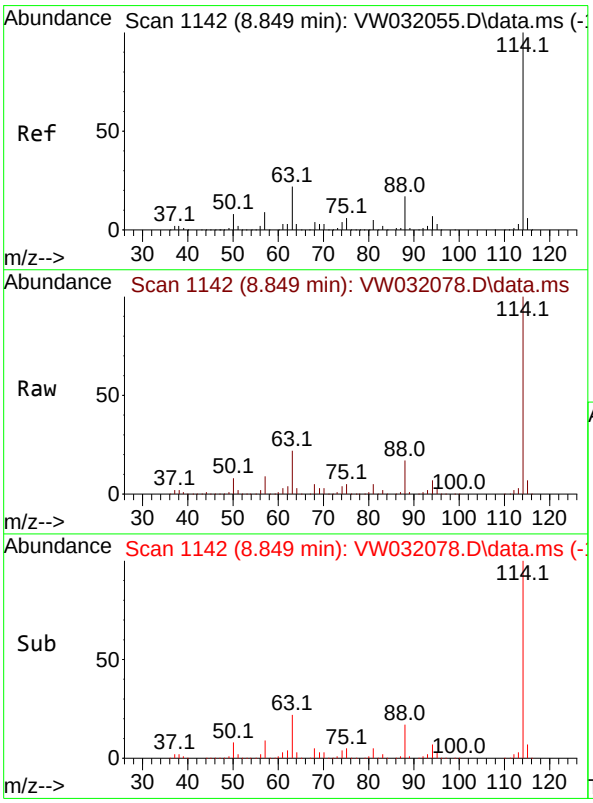
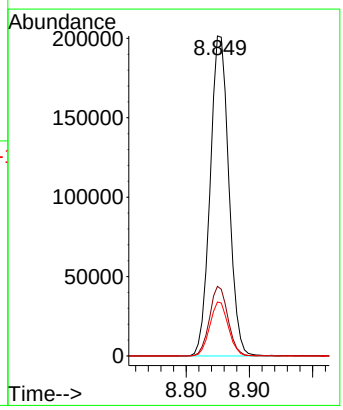
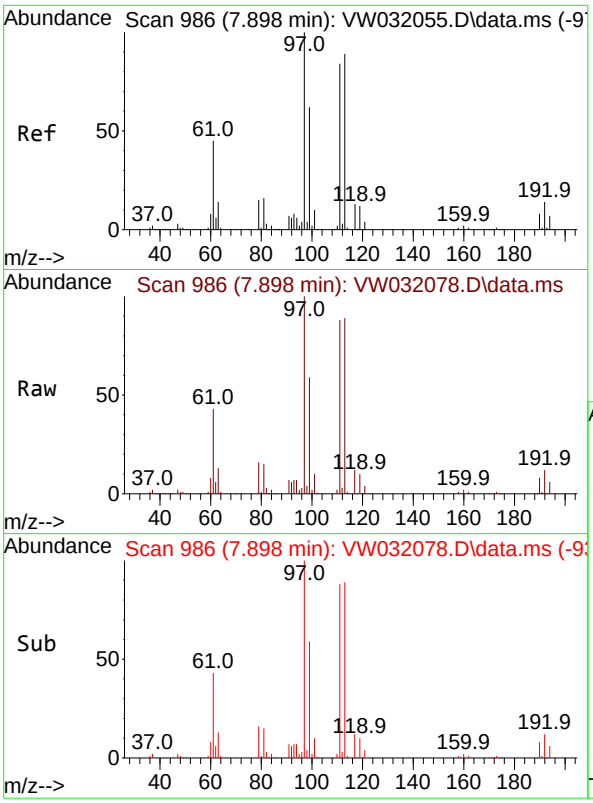



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:114 Resp: 413610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.7 | 0.0 | 43.0 |
| 88 | 16.8 | 0.0 | 33.8 |

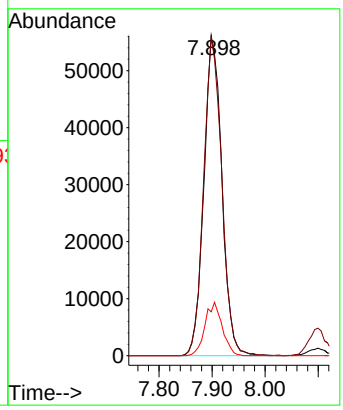





#35
Dibromofluoromethane
Concen: 49.565 ug/l
RT: 7.898 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:113 Resp: 13244

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 100.2 | 80.1 | 120.1 |
| 192 | 16.0 | 13.1 | 19.7 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

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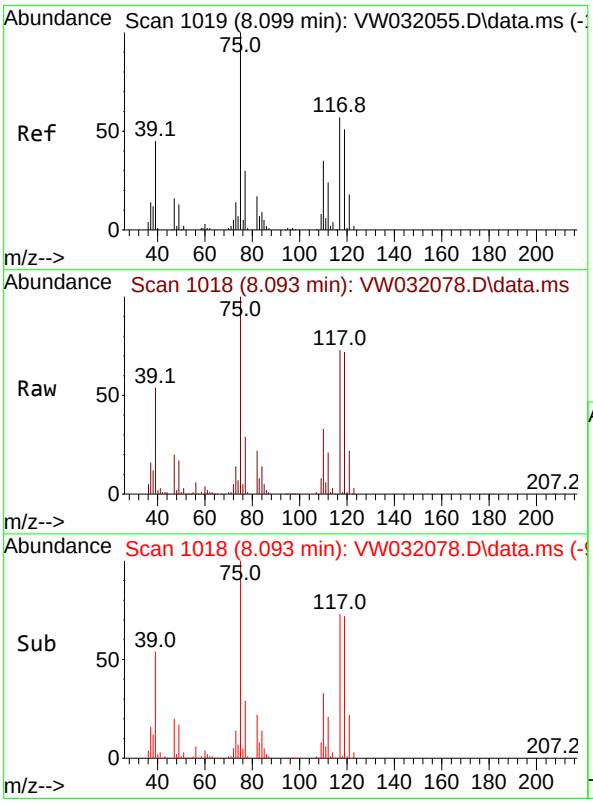
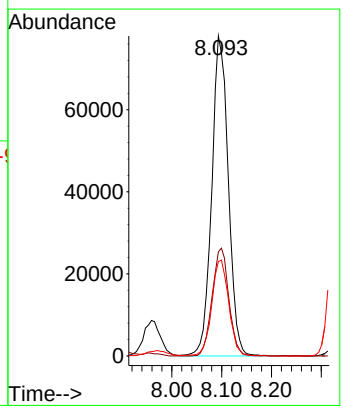
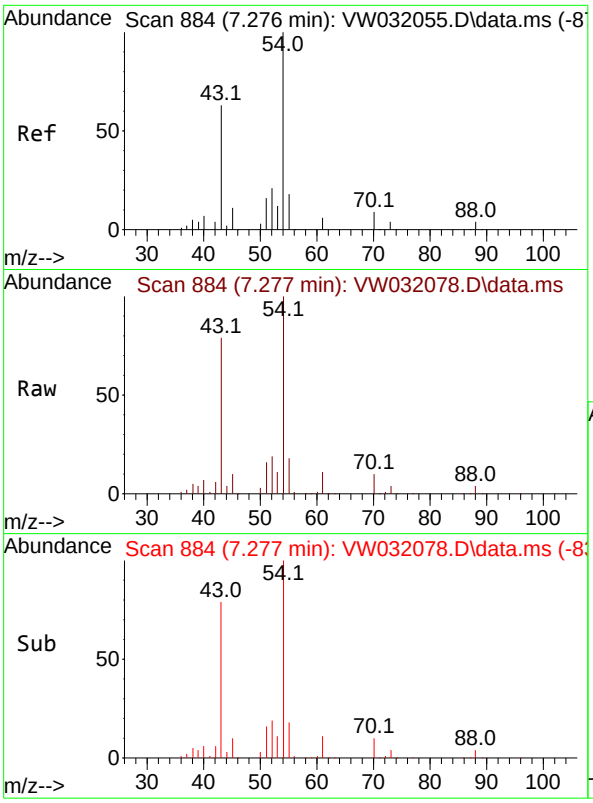



#36
1,1-Dichloropropene
Concen: 47.825 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 75 Resp: 180151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 33.9 | 17.4 | 52.2 |
| 77 | 30.9 | 24.7 | 37.1 |






#37
Ethyl Acetate
Concen: 49.608 ug/l
RT: 7.277 min Scan# 8
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 43 Resp: 11005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.3 | 11.8 | 17.6 |
| 70 | 11.2 | 9.4 | 14.0 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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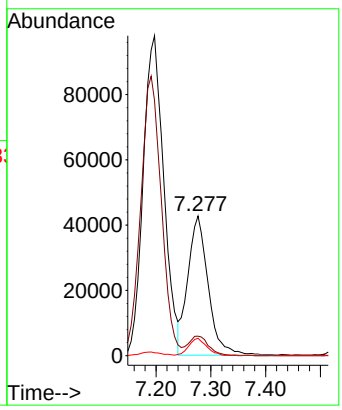
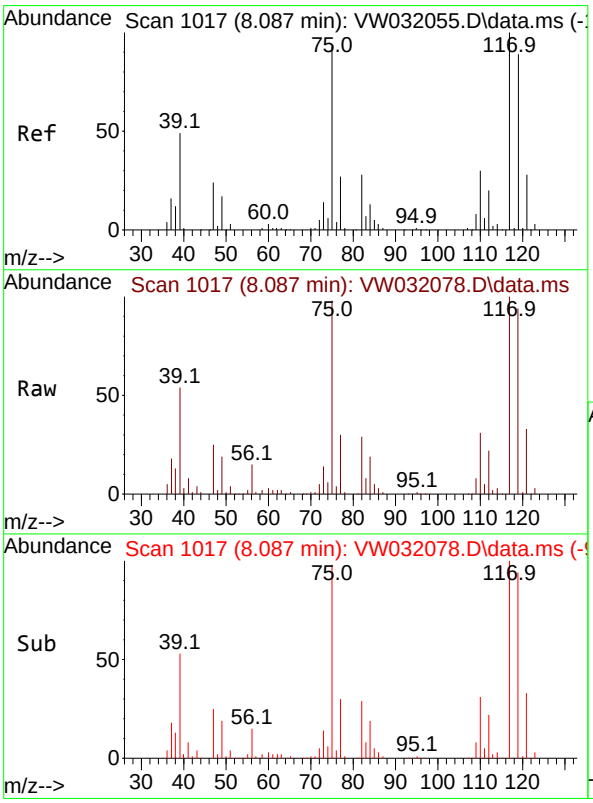
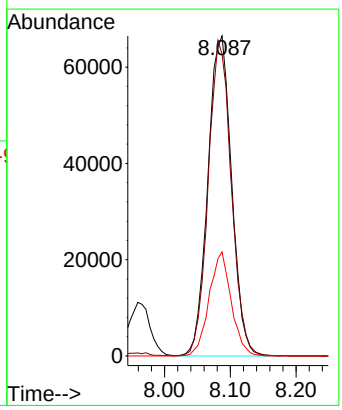


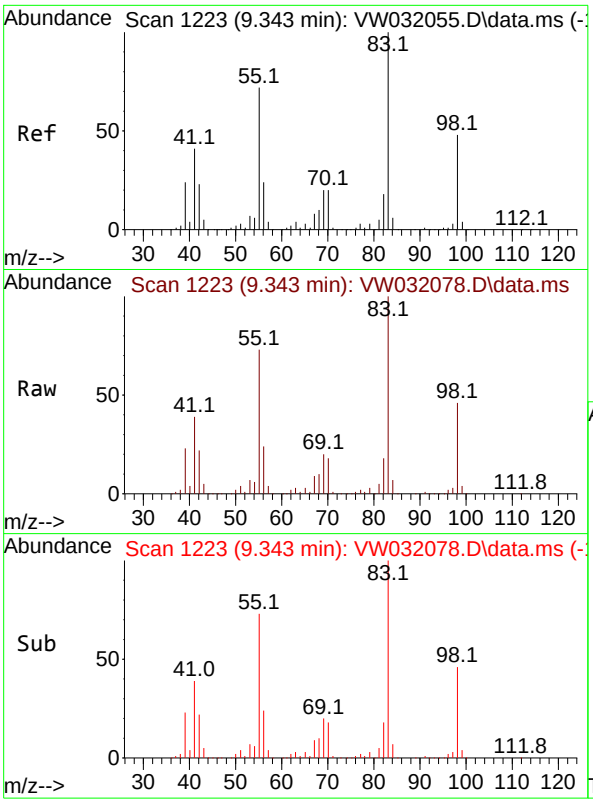




#38
Carbon Tetrachloride
Concen: 46.065 ug/l
RT: 8.087 min Scan# 1017
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:117 Resp: 167458

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.2 | 71.4 | 107.2 |
| 121 | 32.5 | 22.3 | 33.5 |

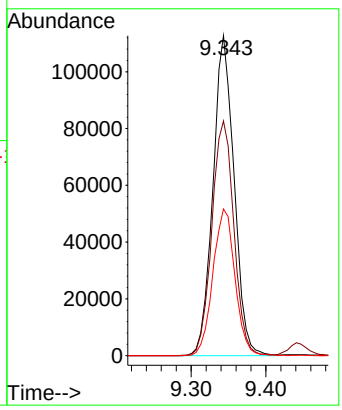





#39
Methylcyclohexane
Concen: 48.261 ug/l
RT: 9.343 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 83 Resp: 22158

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 73.3 | 57.9 | 86.9 |
| 98 | 45.9 | 38.3 | 57.5 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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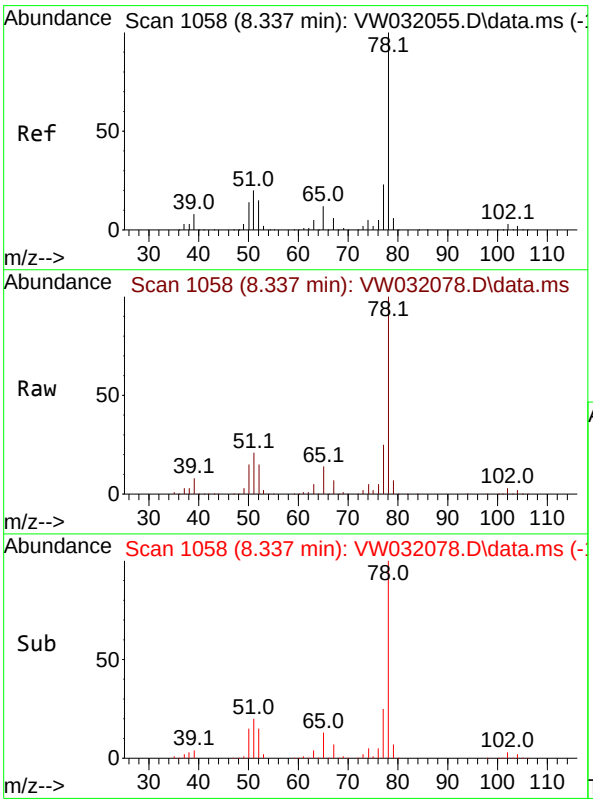
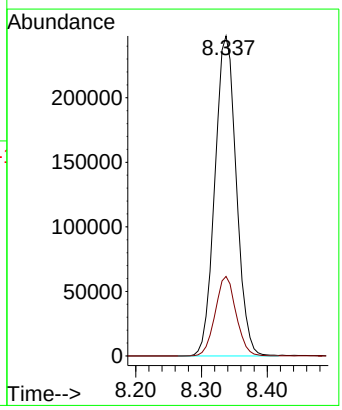
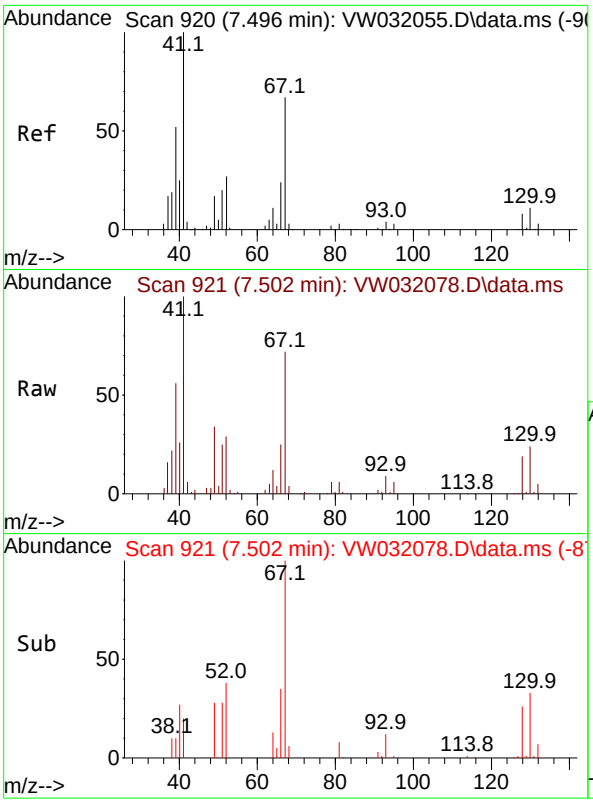



#40
Benzene
Concen: 47.879 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 78 Resp: 560623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.9 | 18.4 | 27.6 |

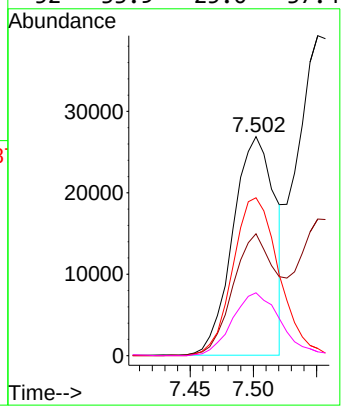





#41
Methacrylonitrile
Concen: 49.286 ug/l
RT: 7.502 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 41 Resp: 6200

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 60.4 | 42.6 | 63.8 |
| 67 | 79.8 | 61.0 | 91.4 |
| 52 | 33.9 | 25.0 | 37.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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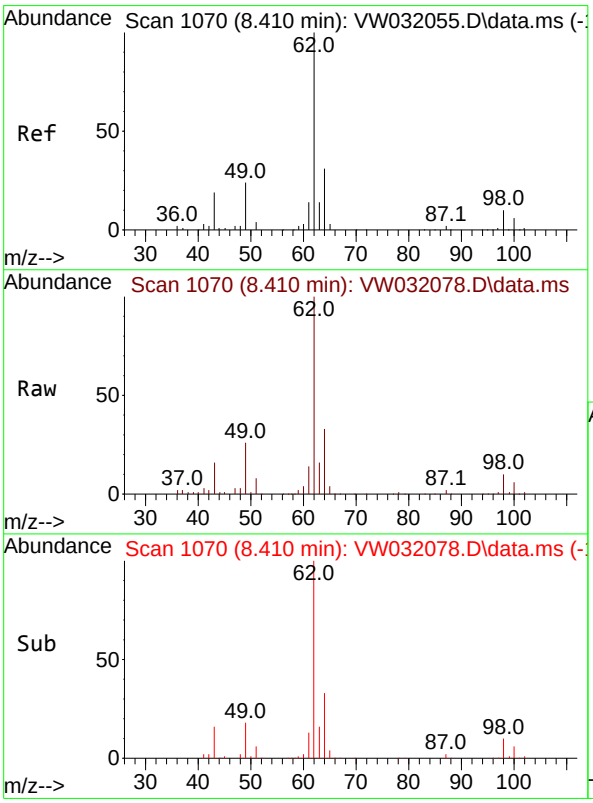
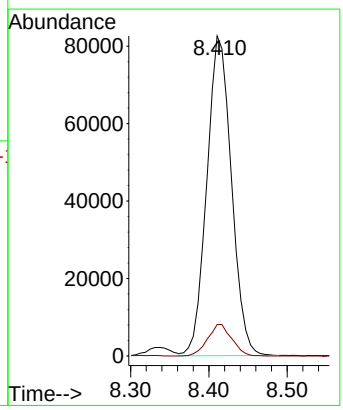
Supervised By :Semsettin Yesilyurt 08/12/2025

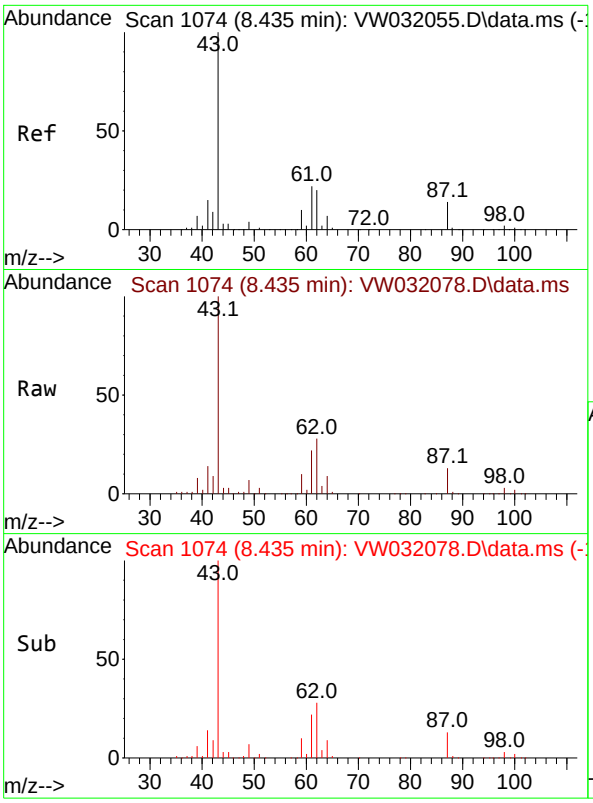



#42
1,2-Dichloroethane
Concen: 48.163 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 62 Resp: 180455

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.6 | 0.0 | 19.8 |

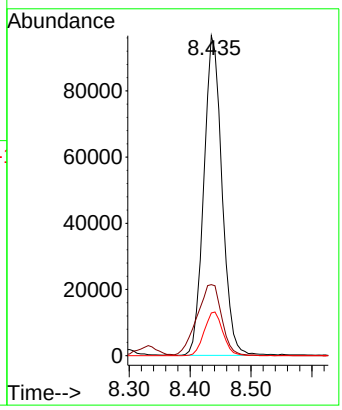





#43
Isopropyl Acetate
Concen: 49.147 ug/l
RT: 8.435 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 43 Resp: 20060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 30.0 | 23.8 | 35.8 |
| 87 | 14.1 | 11.7 | 17.5 |




**Instrument :**
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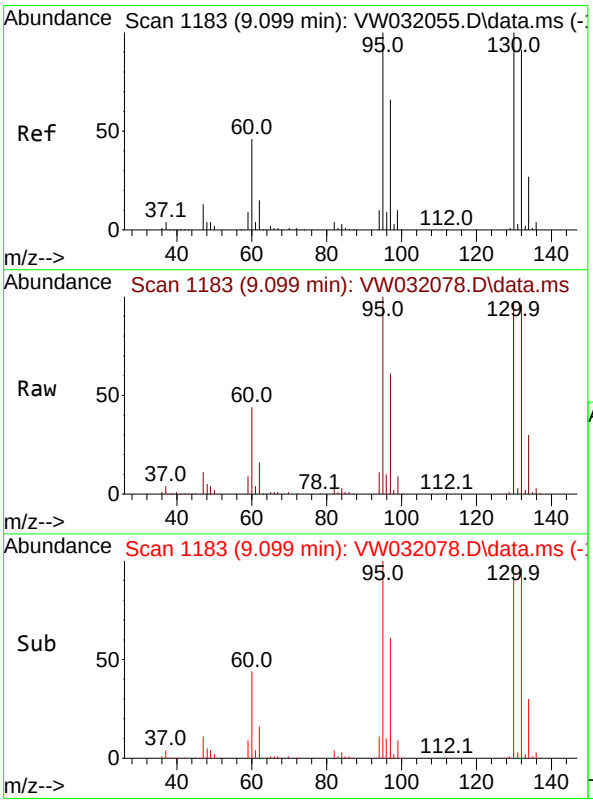
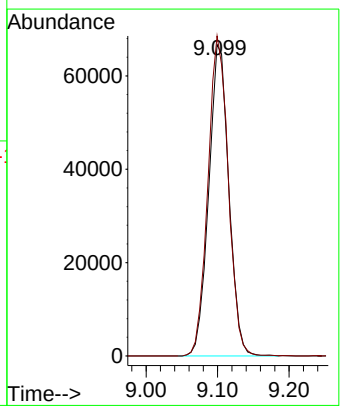
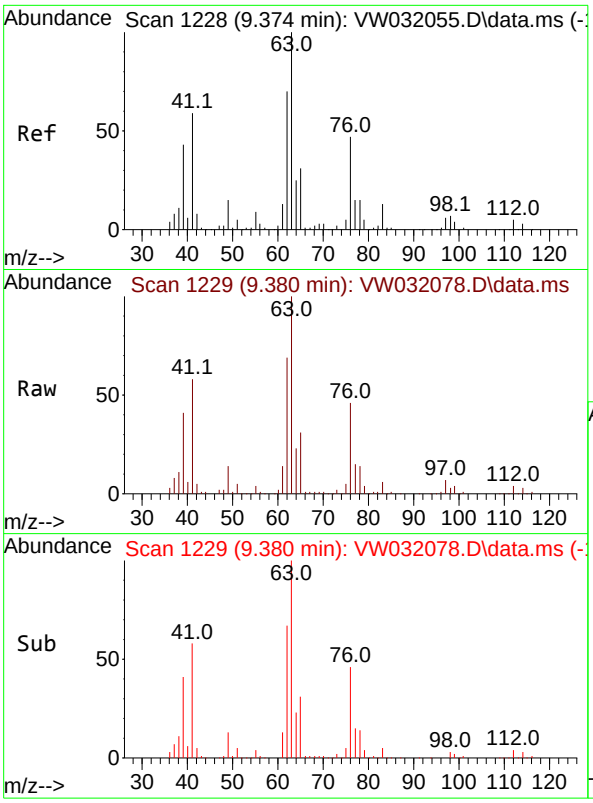



#44
Trichloroethene
Concen: 46.608 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:130 Resp: 129965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 102.8 | 0.0 | 200.6 |

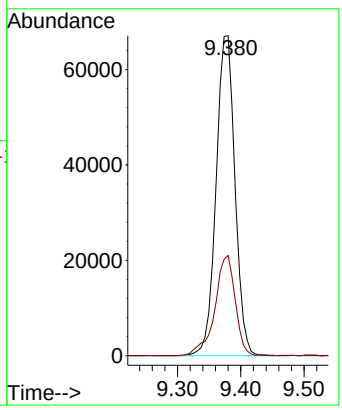





#45
1,2-Dichloropropane
Concen: 49.043 ug/l
RT: 9.380 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 63 Resp: 13873

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.3 | 24.6 | 36.8 |




**Instrument :**
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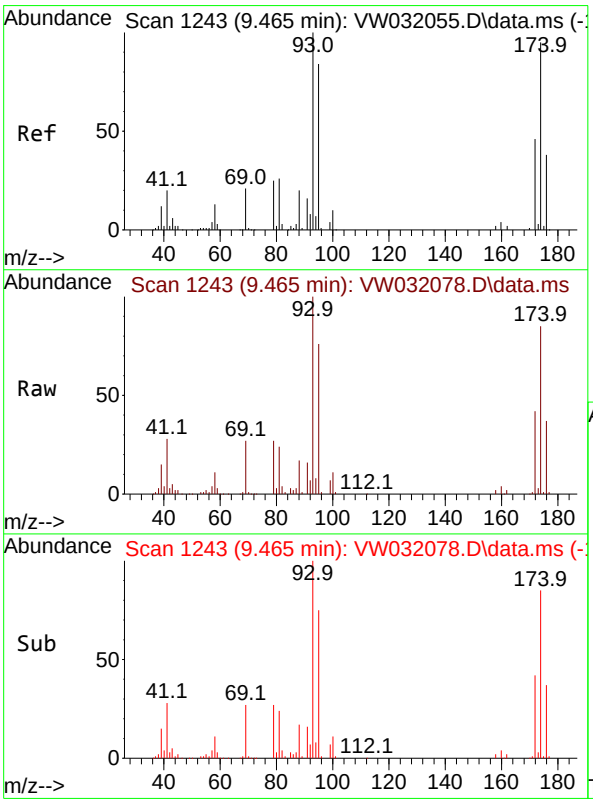
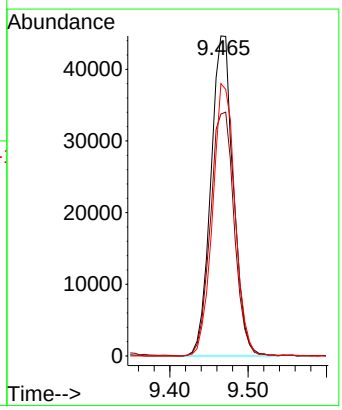
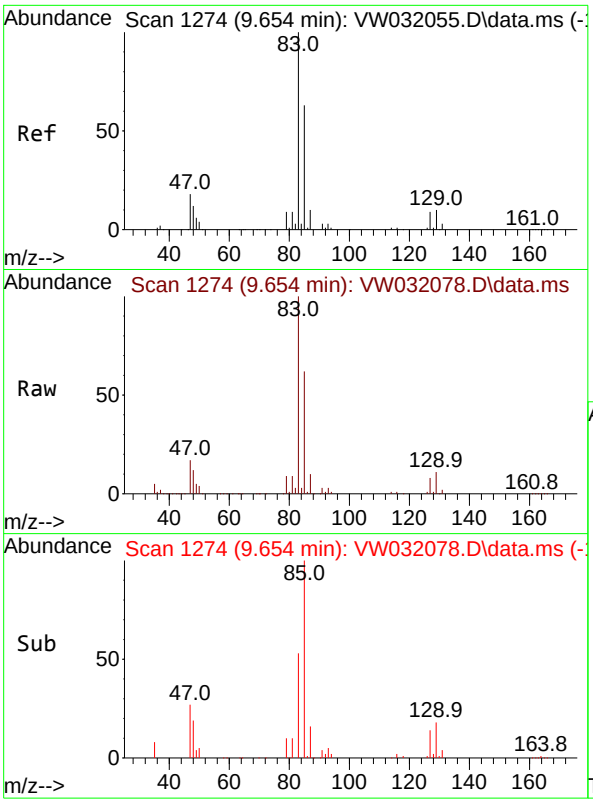



#46
Dibromomethane
Concen: 48.945 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 93 Resp: 89360

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 80.9 | 65.3 | 97.9 |
| 174 | 84.5 | 68.6 | 102.8 |

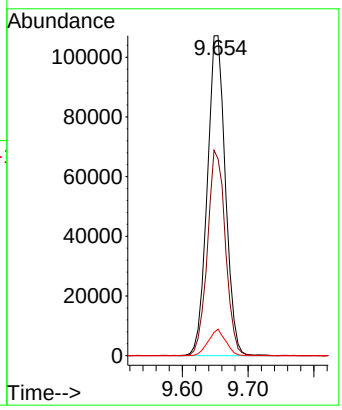





#47
Bromodichloromethane
Concen: 48.852 ug/l
RT: 9.654 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 83 Resp: 20551

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 61.5 | 50.6 | 75.8 |
| 127 | 8.3 | 6.9 | 10.3 |




**Instrument :**
MSVOA_W
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VSTDCCC050EC

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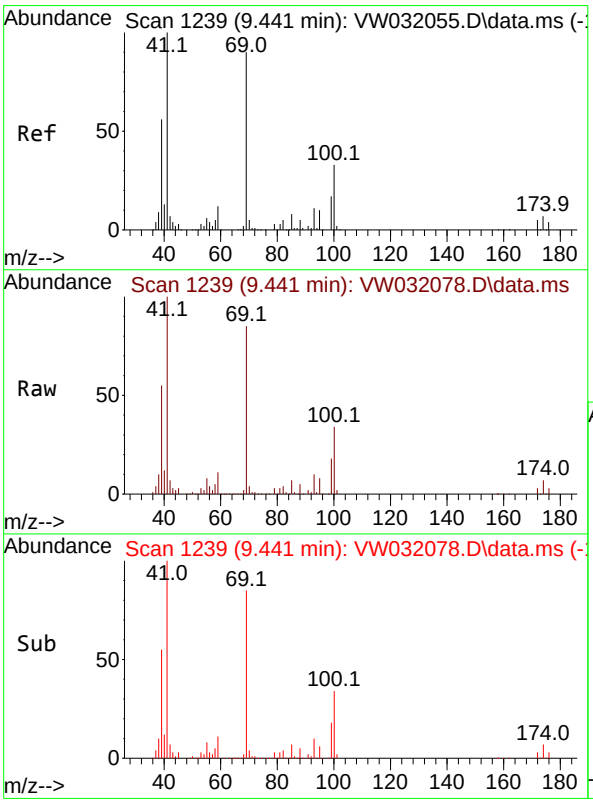
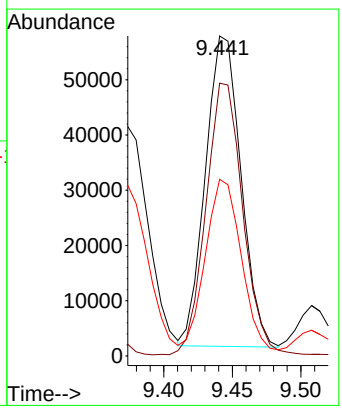
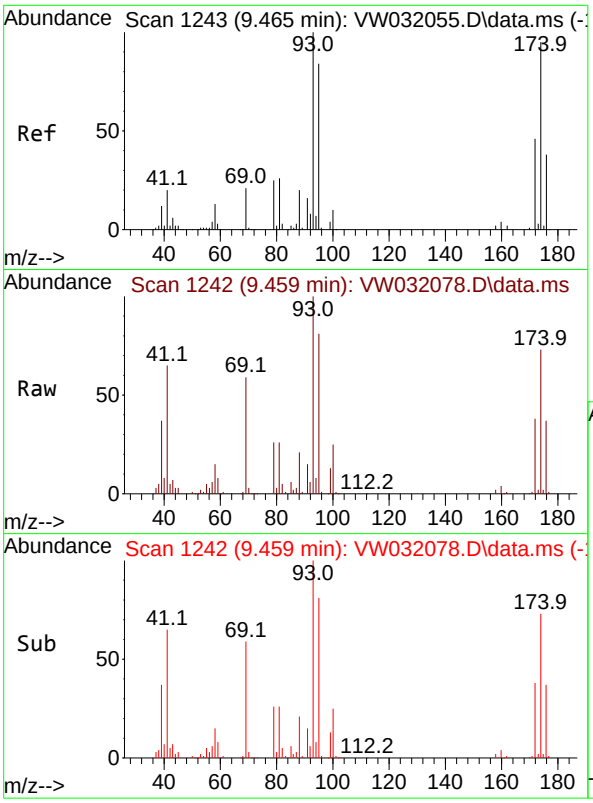



#48
Methyl methacrylate
Concen: 51.471 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 41 Resp: 101426

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 92.0 | 73.0 | 109.6 |
| 39 | 58.7 | 45.0 | 67.4 |

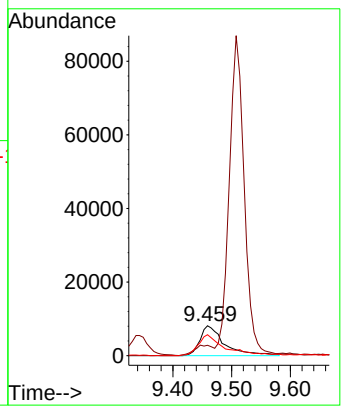





#49
1,4-Dioxane
Concen: 1001.497 ug/l
RT: 9.459 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 88 Resp: 2364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 26.2 | 20.6 | 30.8 |
| 58 | 76.7 | 60.4 | 90.6 |




**Instrument :**
MSVOA_W
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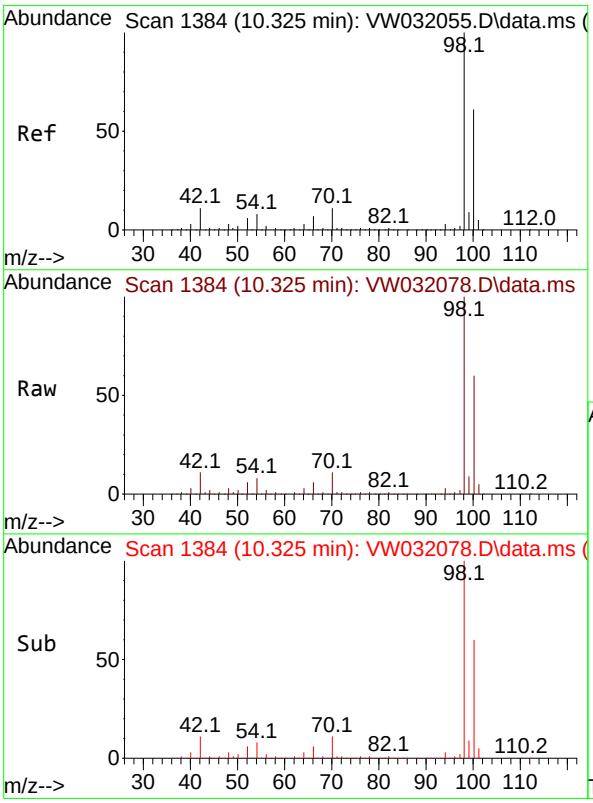
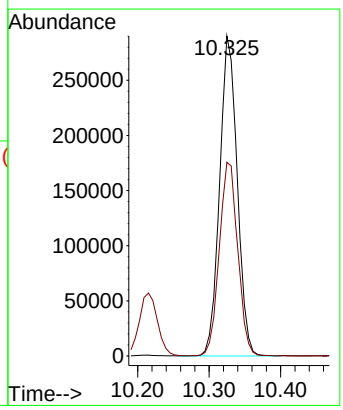
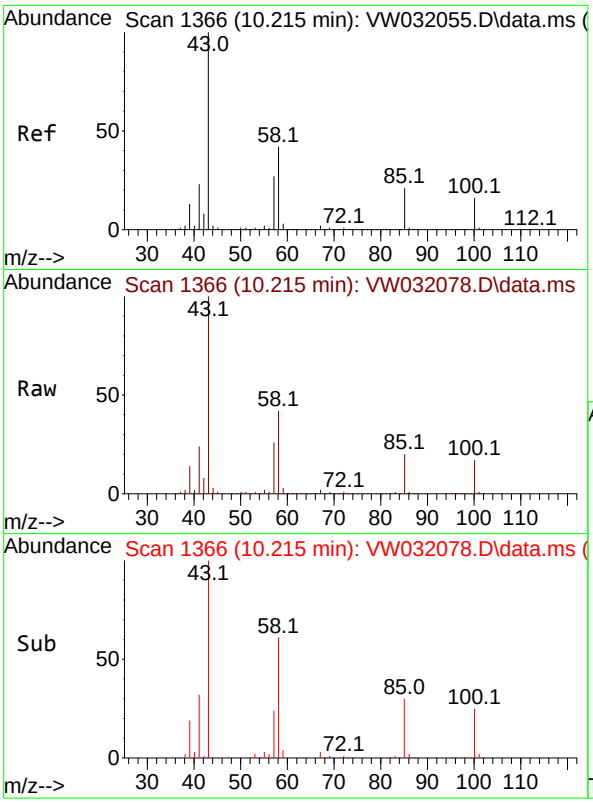



#50
Toluene-d8
Concen: 50.187 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 98 Resp: 496013

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.5 | 51.1 | 76.7 |

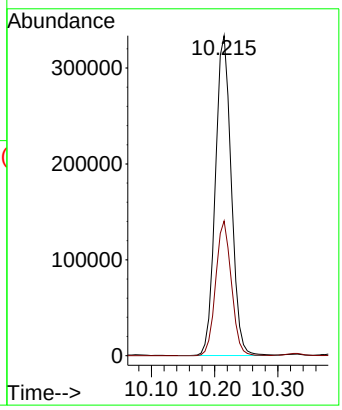





#51
4-Methyl-2-Pentanone
Concen: 252.344 ug/l
RT: 10.215 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 43 Resp: 58137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 41.5 | 33.1 | 49.7 |

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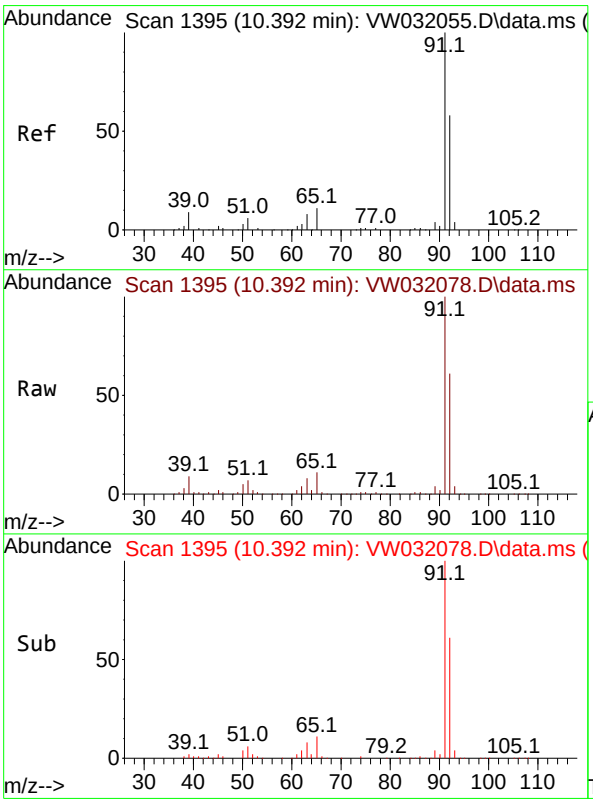
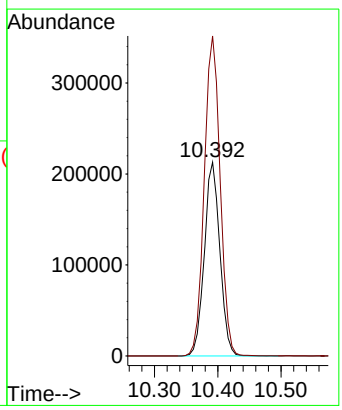
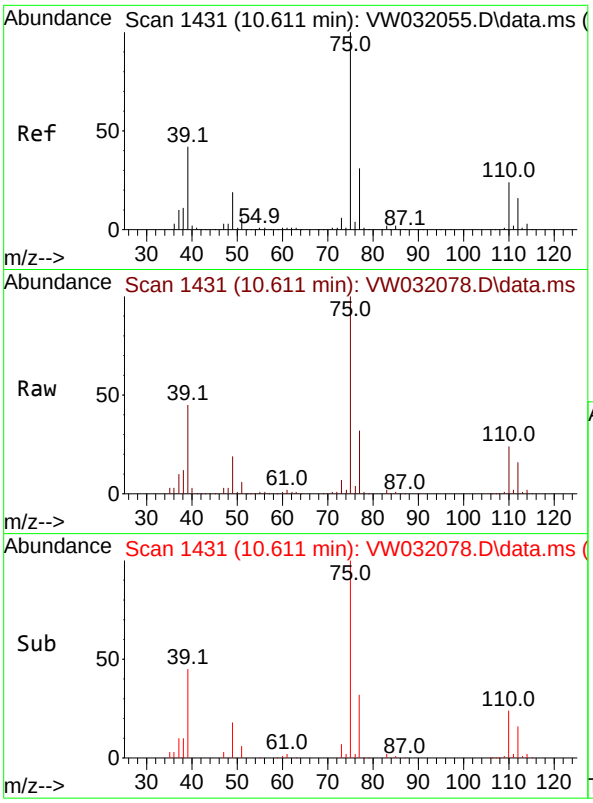



#52
Toluene
Concen: 49.271 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 92 Resp: 363384

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 168.9 | 136.3 | 204.5 |

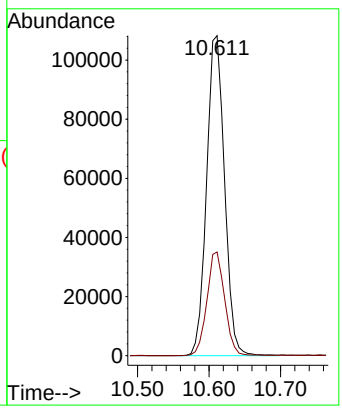





#53
t-1,3-Dichloropropene
Concen: 47.848 ug/l
RT: 10.611 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 75 Resp: 18858

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.3 | 25.0 | 37.6 |

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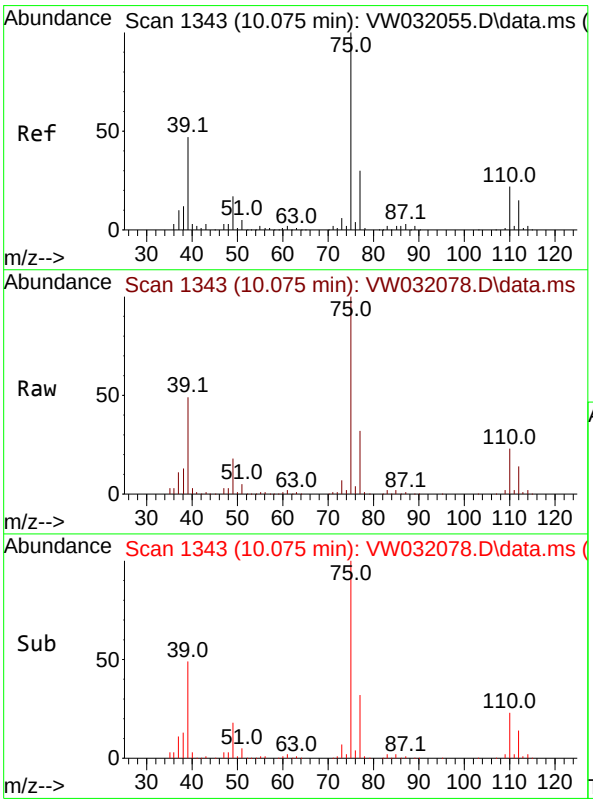
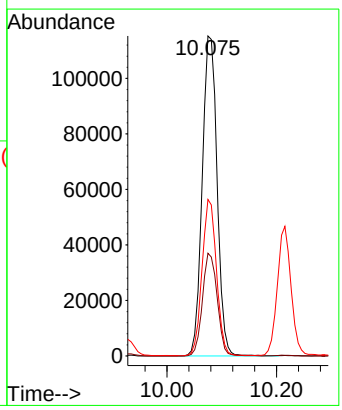
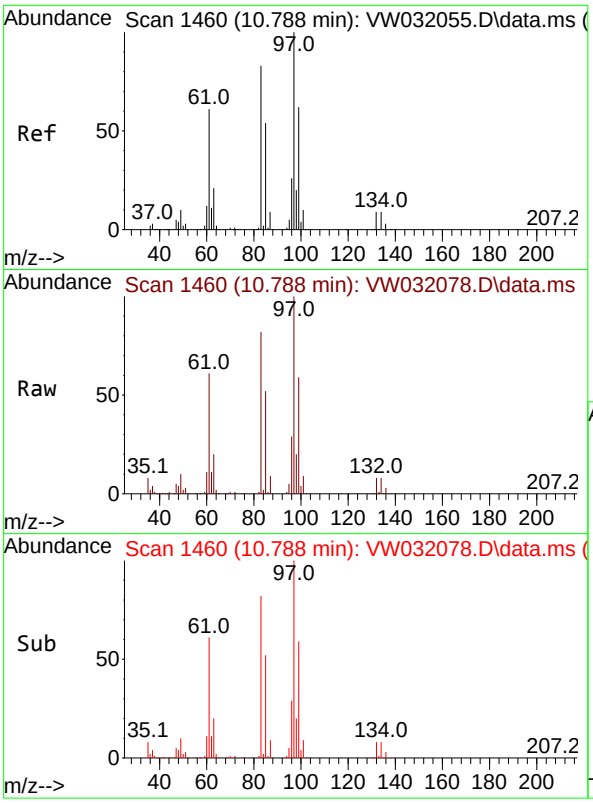



#54
cis-1,3-Dichloropropene
Concen: 48.425 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 75 Resp: 216528

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.1 | 24.0 | 36.0 |
| 39 | 48.8 | 37.8 | 56.8 |

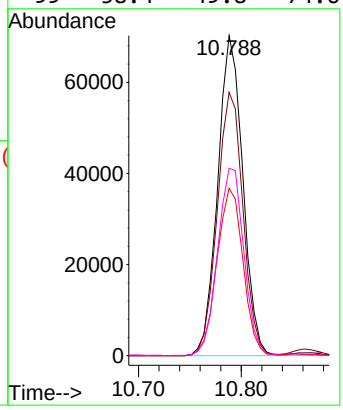





#55
1,1,2-Trichloroethane
Concen: 49.042 ug/l
RT: 10.788 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 97 Resp: 11897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 82.3 | 66.4 | 99.6 |
| 85 | 52.4 | 43.1 | 64.7 |
| 99 | 58.4 | 49.8 | 74.6 |

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VSTDCCC050EC

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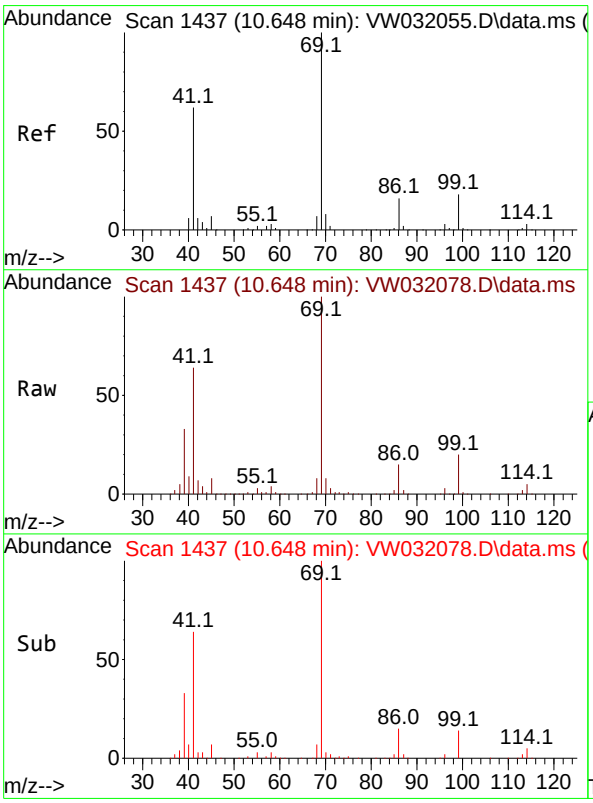
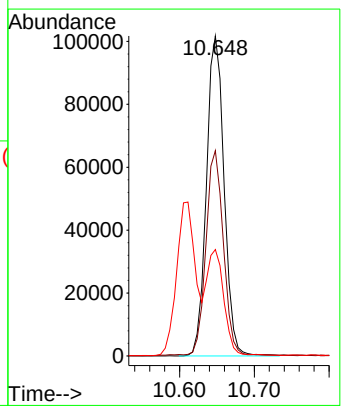
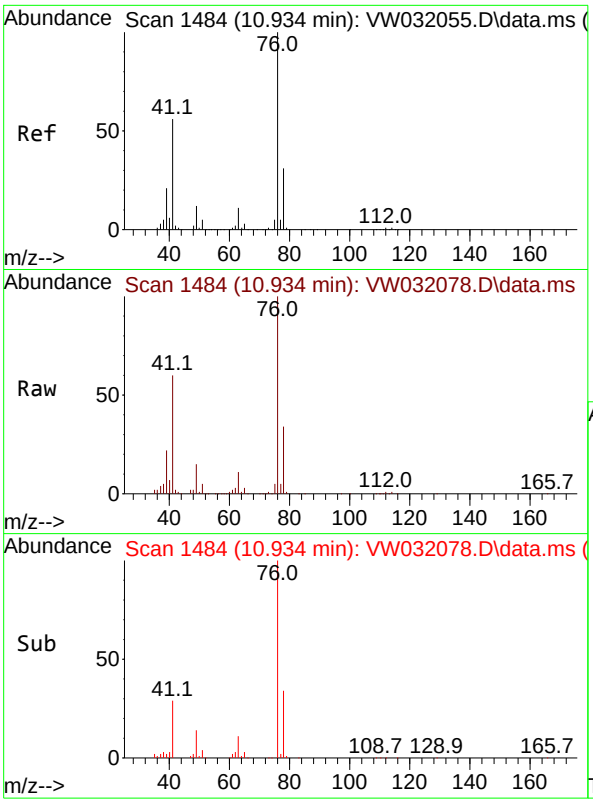



#56
Ethyl methacrylate
Concen: 51.306 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 69 Resp: 166567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 64.1 | 51.2 | 76.8 |
| 39 | 32.3 | 25.4 | 38.0 |






#57
1,3-Dichloropropane
Concen: 48.292 ug/l
RT: 10.934 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 76 Resp: 20422

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.5 | 25.8 | 38.6 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

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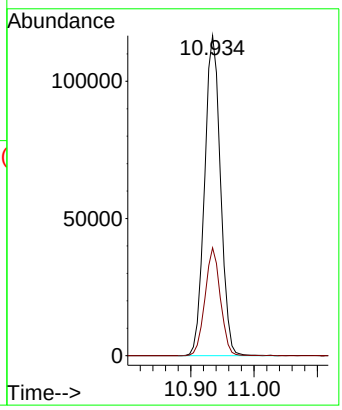
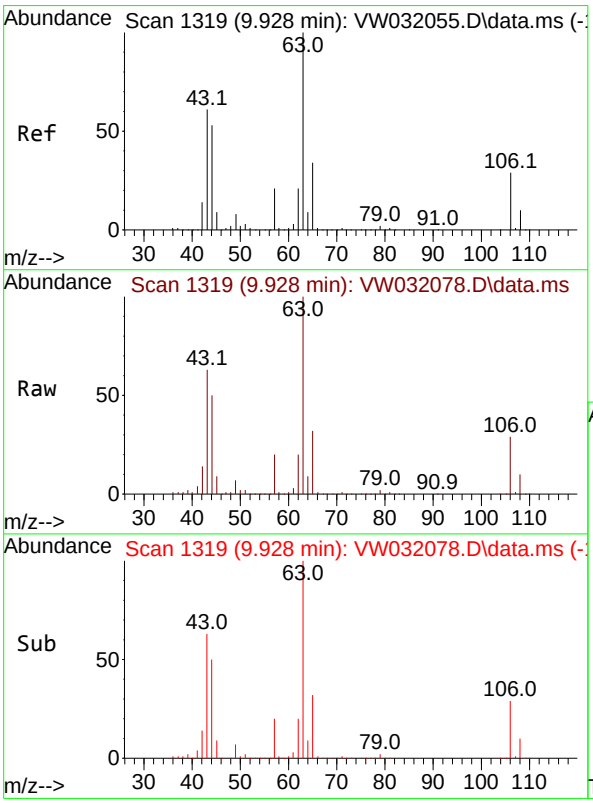
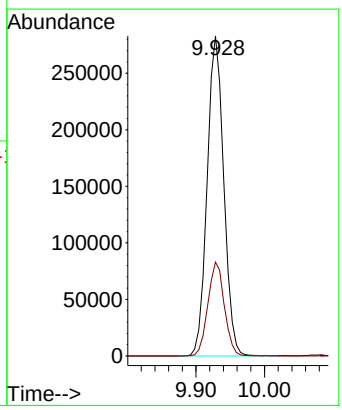


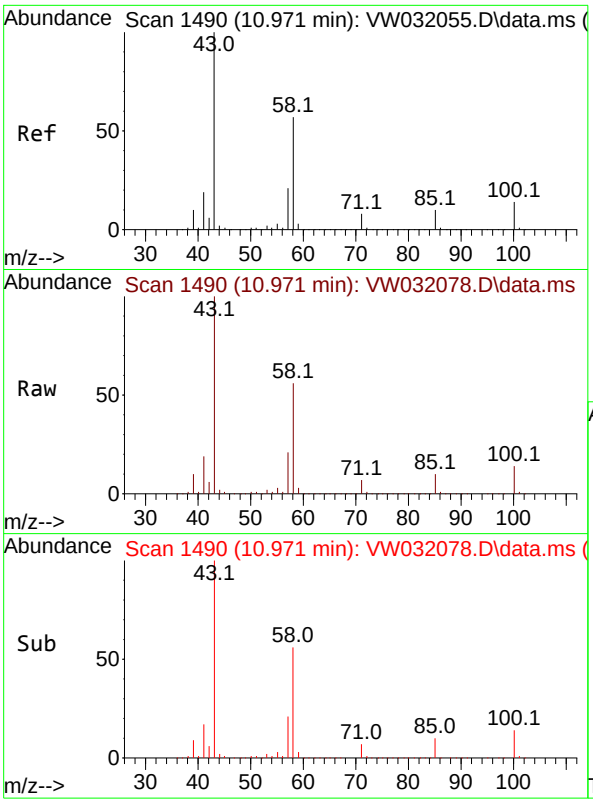




#58
2-Chloroethyl Vinyl ether
Concen: 265.209 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 63 Resp: 476248

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 29.0 | 23.5 | 35.3 |






#59
2-Hexanone
Concen: 253.545 ug/l
RT: 10.971 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

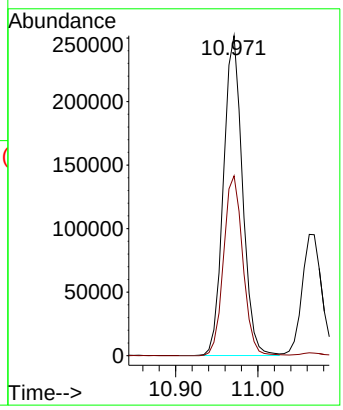
Tgt Ion: 43 Resp: 40455

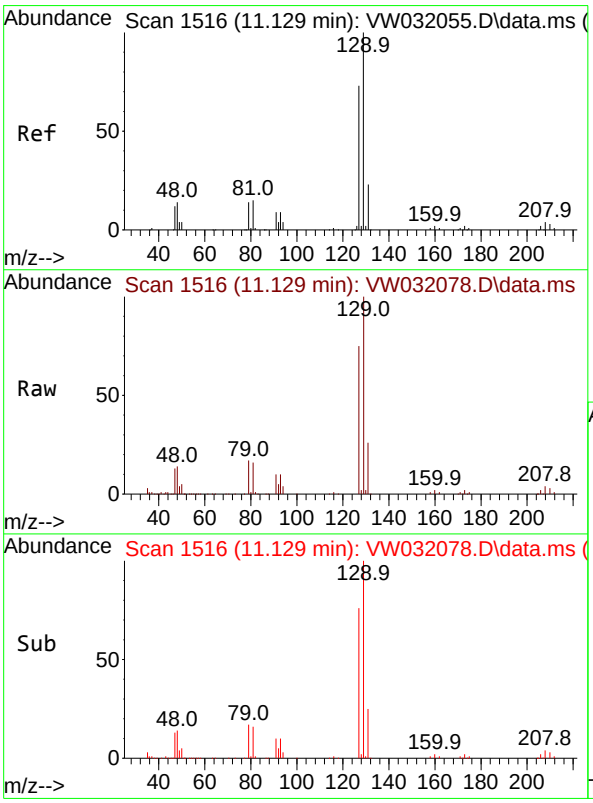
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 56.9 | 28.3 | 85.0 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

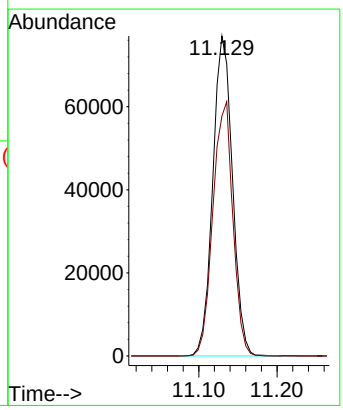


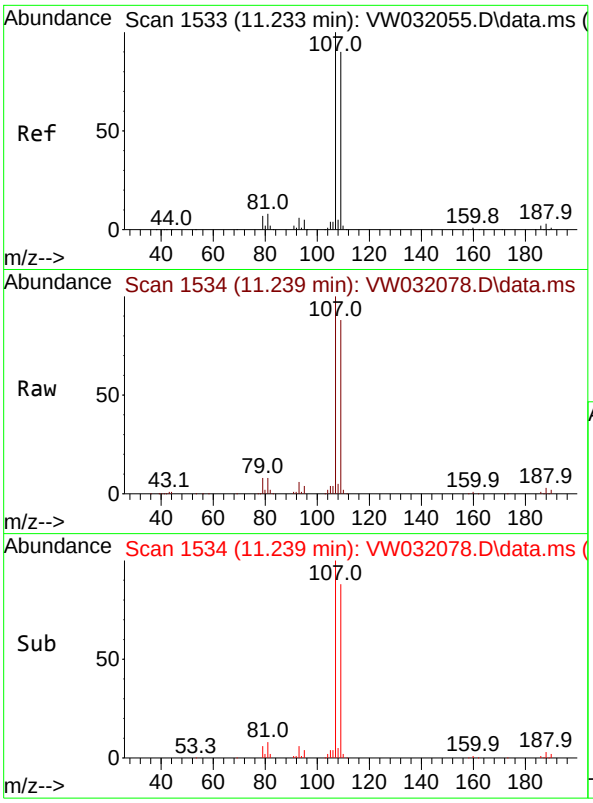




#60
Dibromochloromethane
Concen: 48.560 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:129 Resp: 134574

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 80.4 | 39.0 | 116.9 |

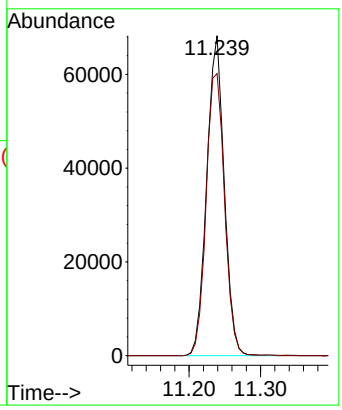





#61
1,2-Dibromoethane
Concen: 49.186 ug/l
RT: 11.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:107 Resp: 11596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 92.9 | 74.2 | 111.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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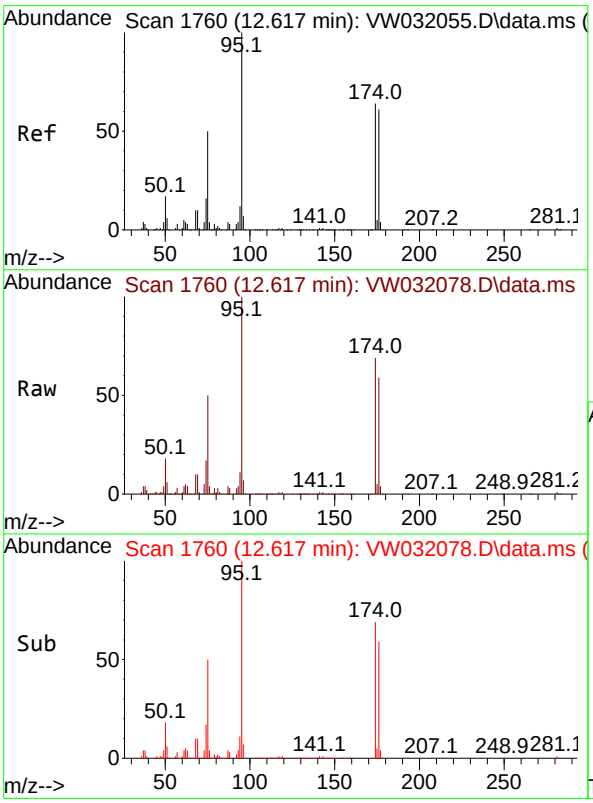
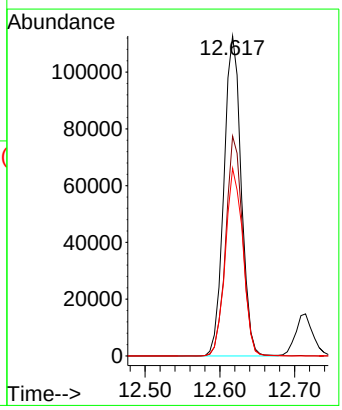
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

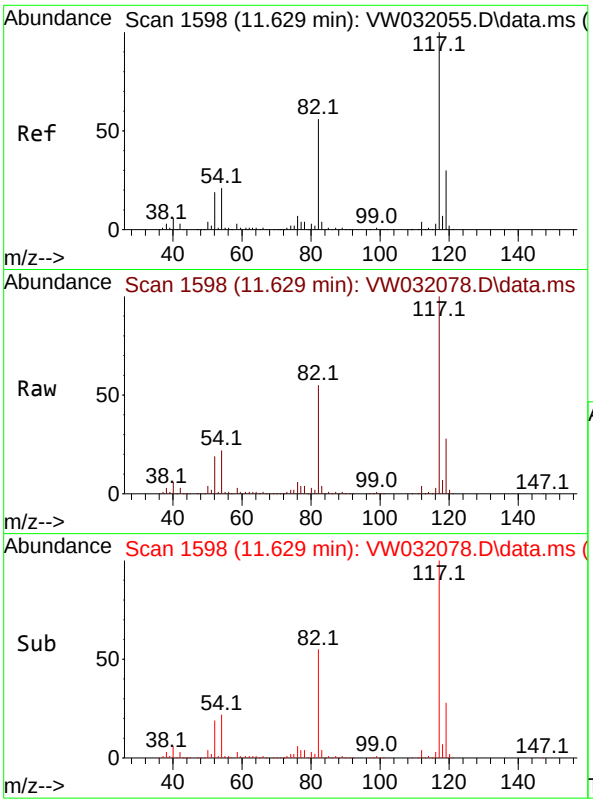



#62
4-Bromofluorobenzene
Concen: 49.666 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 95 Resp: 180889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 66.8 | 0.0 | 129.0 |
| 176 | 59.8 | 0.0 | 124.6 |

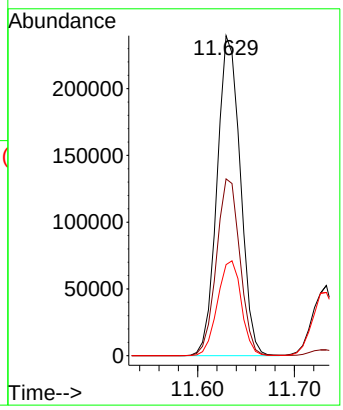





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

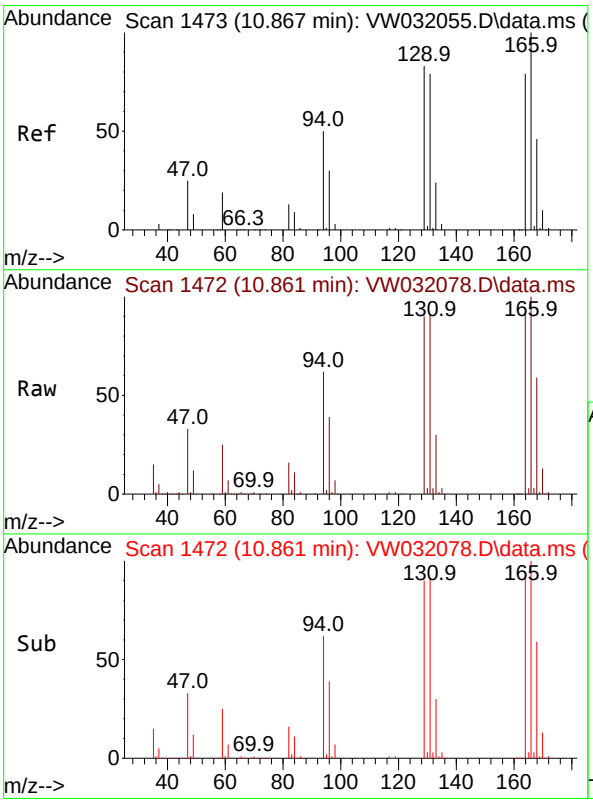
Tgt Ion:117 Resp: 39922

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 55.3 | 45.0 | 67.4 |
| 119 | 28.4 | 24.2 | 36.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

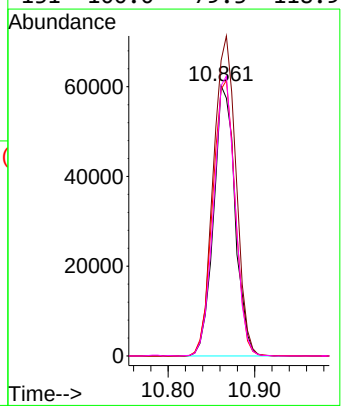
**Manual Integrations APPROVED**
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

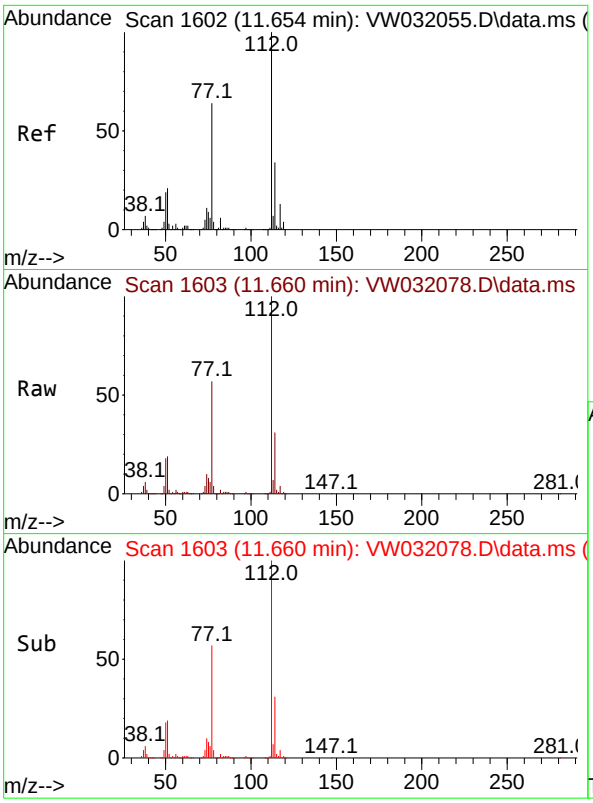



#64
Tetrachloroethene
Concen: 44.767 ug/l
RT: 10.861 min Scan# 1472
Delta R.T. -0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:164 Resp: 103230

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 109.4 | 100.9 | 151.3 |
| 129 | 98.7 | 83.6 | 125.4 |
| 131 | 100.0 | 79.3 | 118.9 |

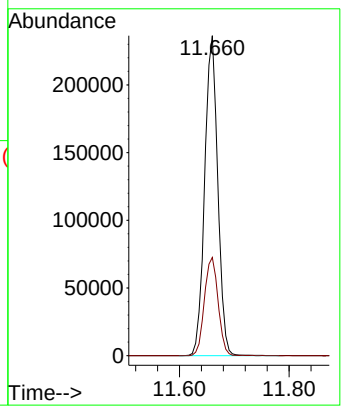





#65
Chlorobenzene
Concen: 44.896 ug/l
RT: 11.660 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:112 Resp: 39013

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 30.7 | 26.9 | 40.3 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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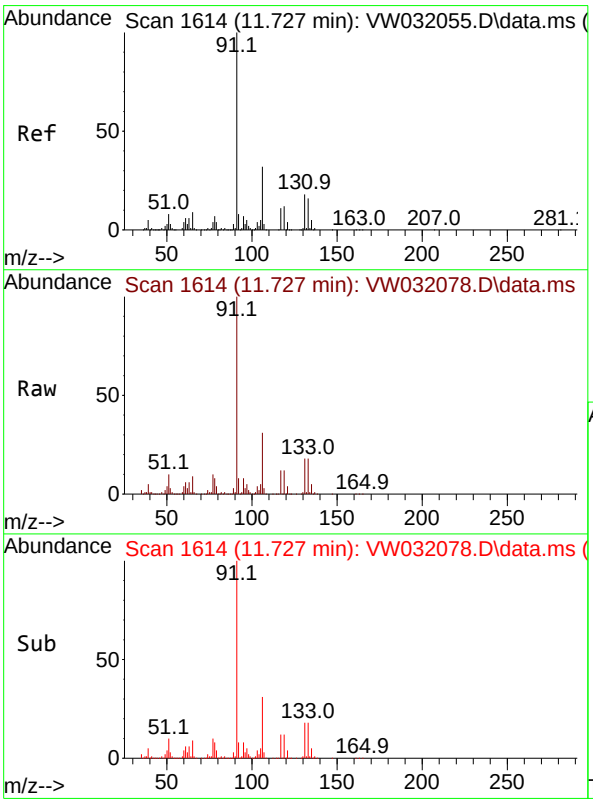
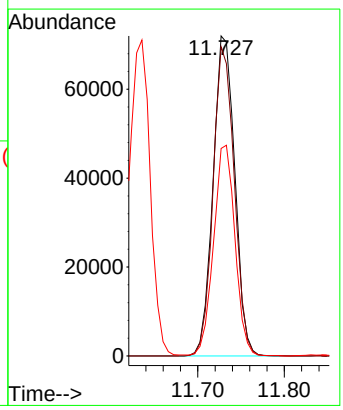
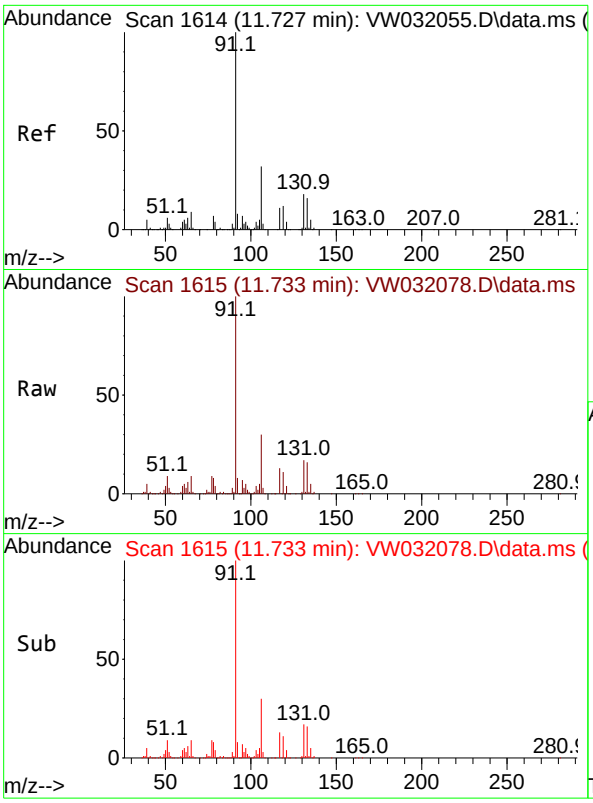



#66
1,1,1,2-Tetrachloroethane
Concen: 46.243 ug/l
RT: 11.727 min Scan# 1614
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:131 Resp: 125374

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.5 | 47.3 | 142.0 |
| 119 | 65.2 | 34.5 | 103.5 |

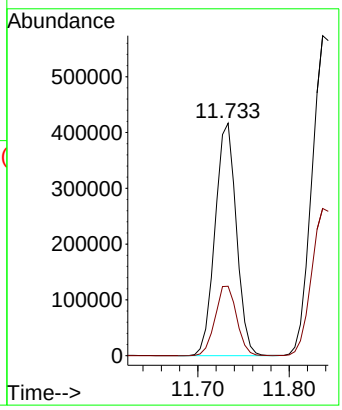





#67
Ethyl Benzene
Concen: 45.839 ug/l
RT: 11.733 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 91 Resp: 67471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.9 | 25.4 | 38.0 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

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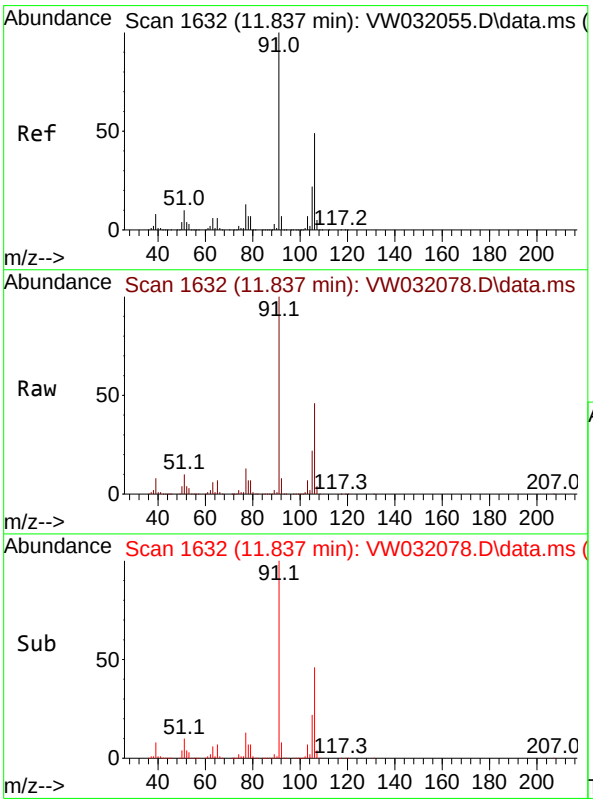
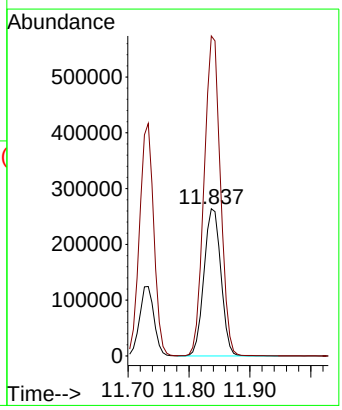
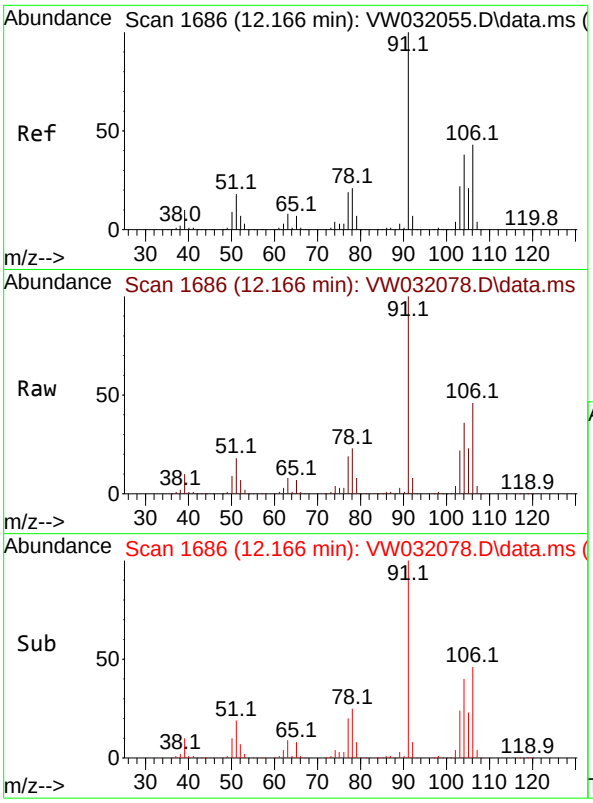



#68
m/p-Xylenes
Concen: 89.674 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:106 Resp: 509322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 209.4 | 162.2 | 243.2 |

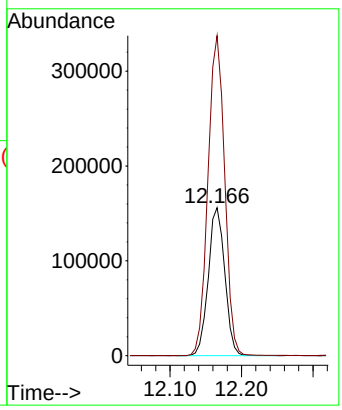





#69
o-Xylene
Concen: 47.586 ug/l
RT: 12.166 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:106 Resp: 24980

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 219.3 | 110.8 | 332.3 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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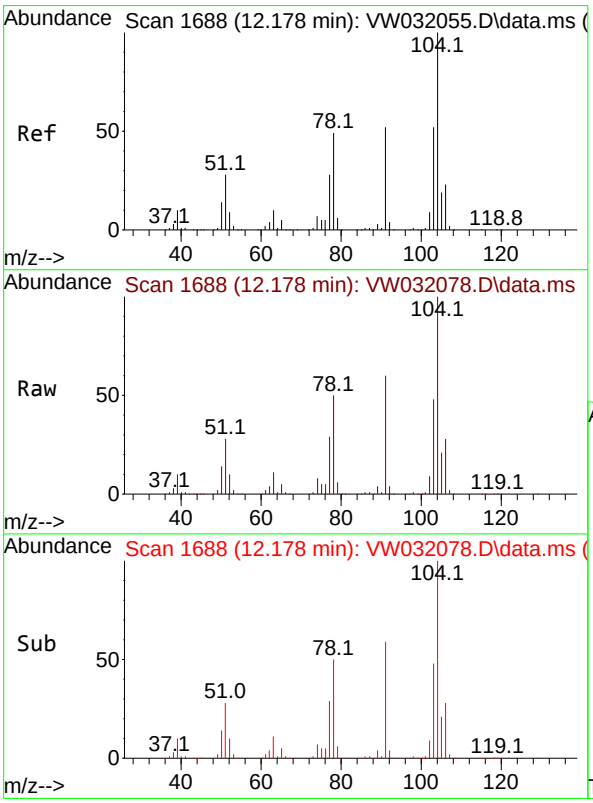
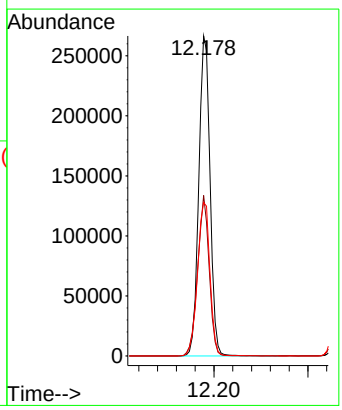
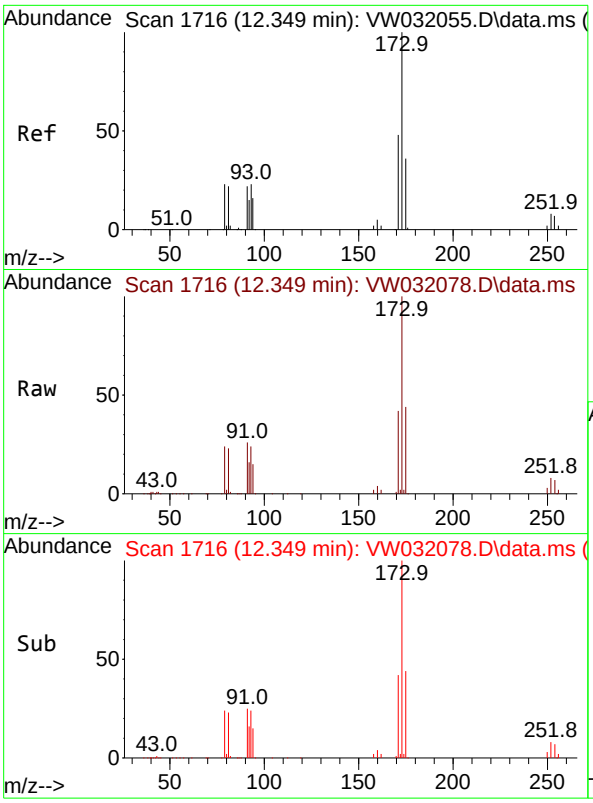



#70
Styrene
Concen: 47.626 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:104 Resp: 444091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 51.3 | 41.2 | 61.8 |
| 103 | 53.0 | 43.8 | 65.8 |

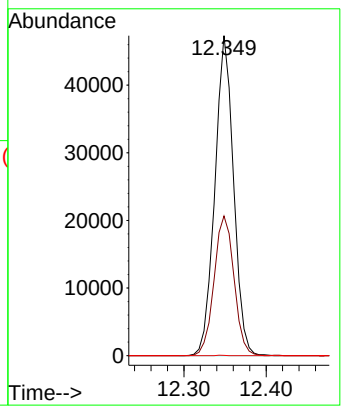





#71
Bromoform
Concen: 48.185 ug/l
RT: 12.349 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:173 Resp: 7472

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 46.6 | 22.9 | 68.7 |
| 254 | 0.1 | 0.0 | 0.0 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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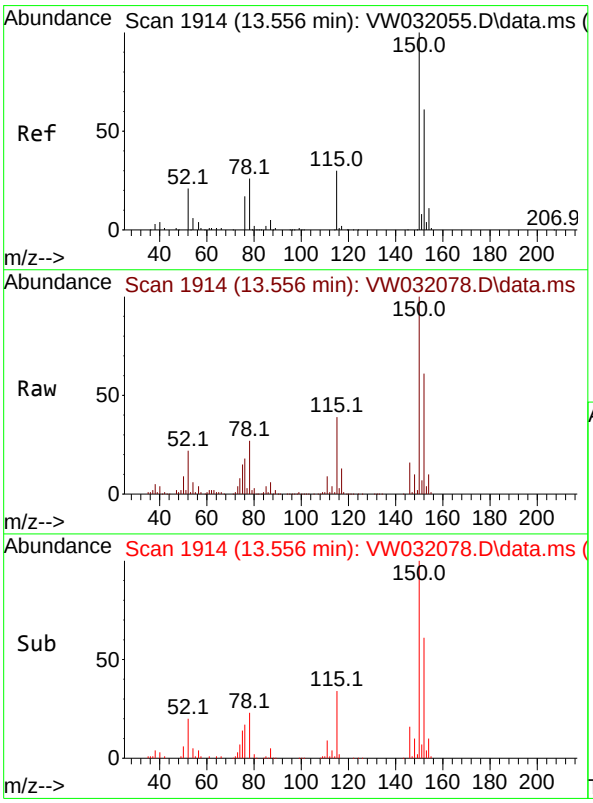
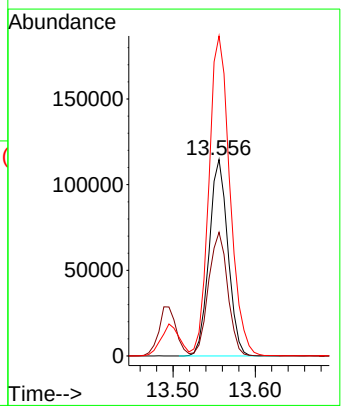
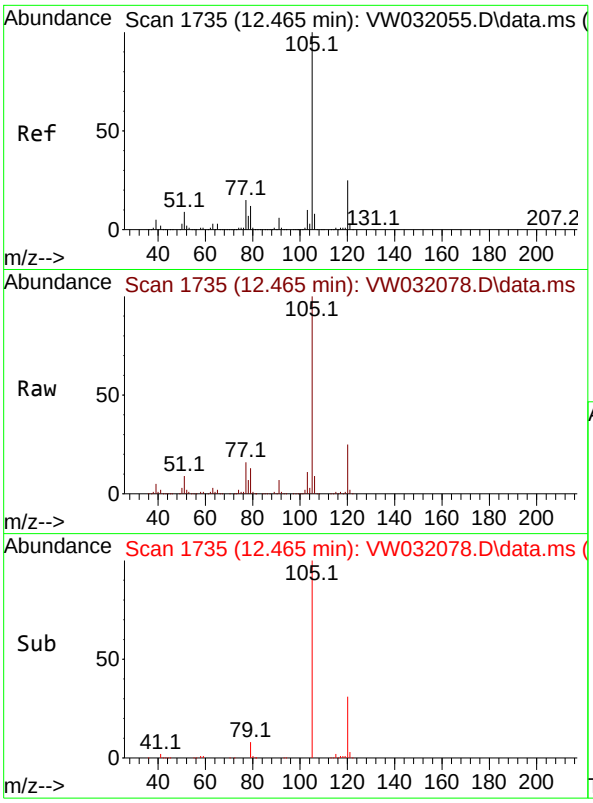



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:152 Resp: 181926

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 64.3 | 32.6 | 97.8 |
| 150 | 182.0 | 0.0 | 359.4 |






#73
Isopropylbenzene
Concen: 48.421 ug/l
RT: 12.465 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:105 Resp: 61563

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.5 | 12.8 | 38.4 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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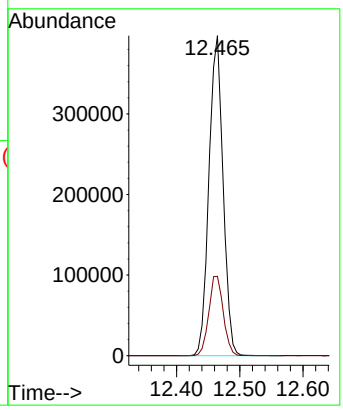
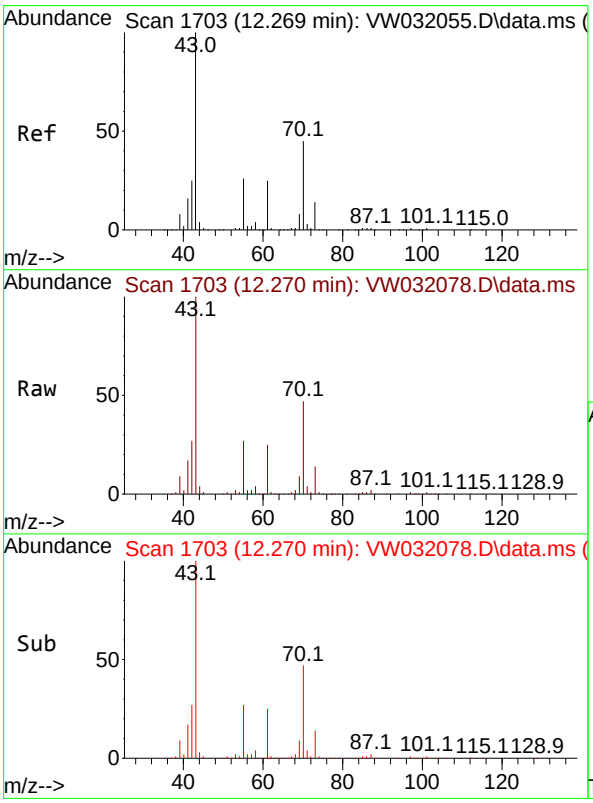
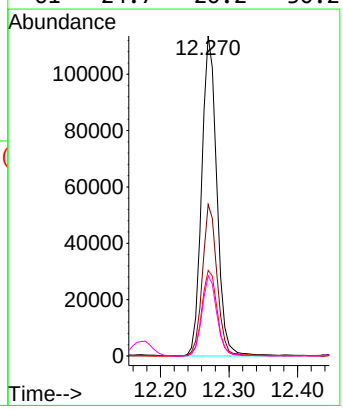


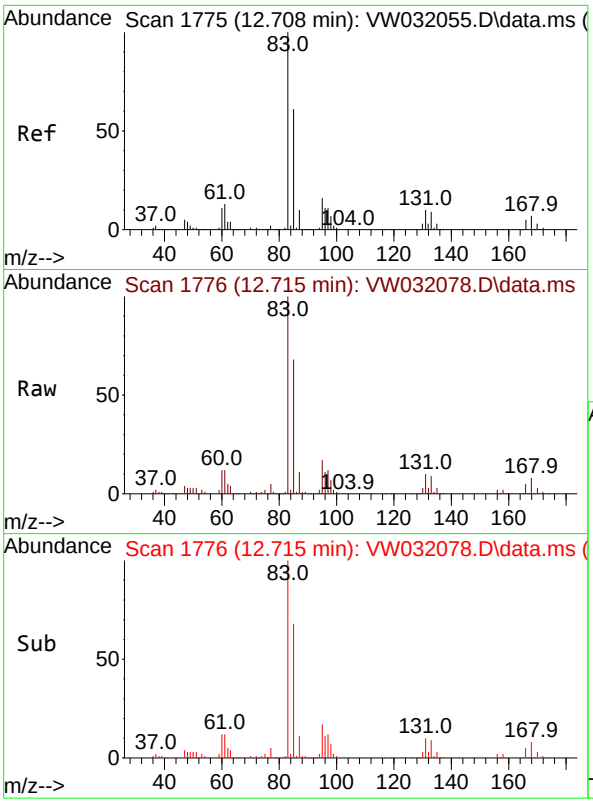




#74
N-amyl acetate
Concen: 47.933 ug/l
RT: 12.270 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 43 Resp: 174844

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 45.6 | 37.0 | 55.4 |
| 55 | 27.2 | 21.1 | 31.7 |
| 61 | 24.7 | 20.2 | 30.2 |






#75
1,1,2,2-Tetrachloroethane
Concen: 47.484 ug/l
RT: 12.715 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 83 Resp: 14334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.4 | 5.1 | 15.4 |
| 85 | 66.6 | 32.2 | 96.6 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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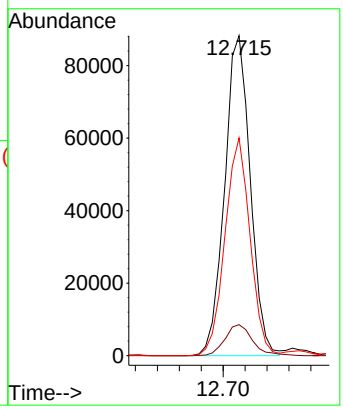
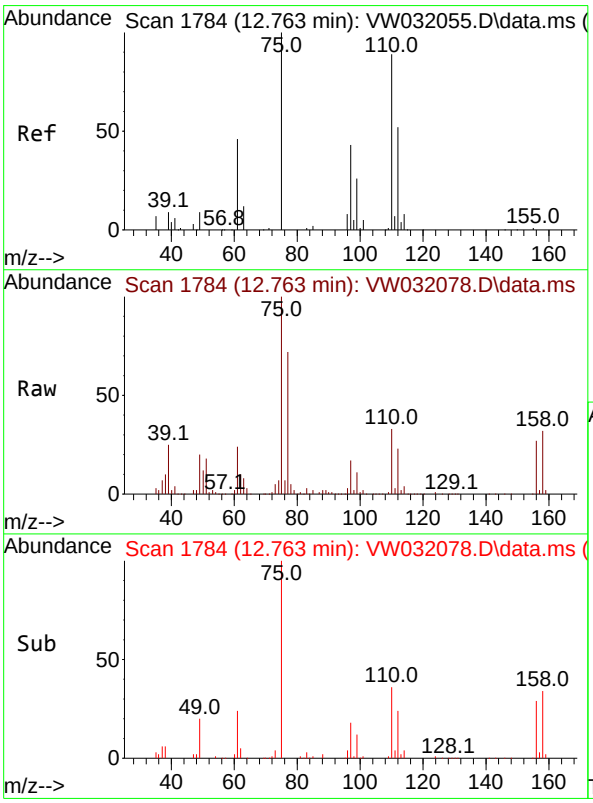
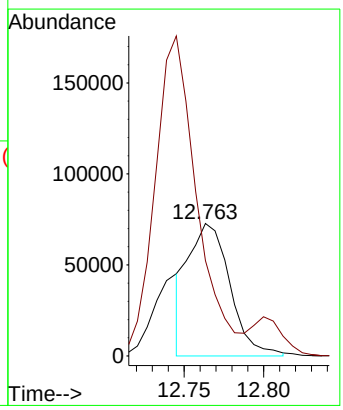


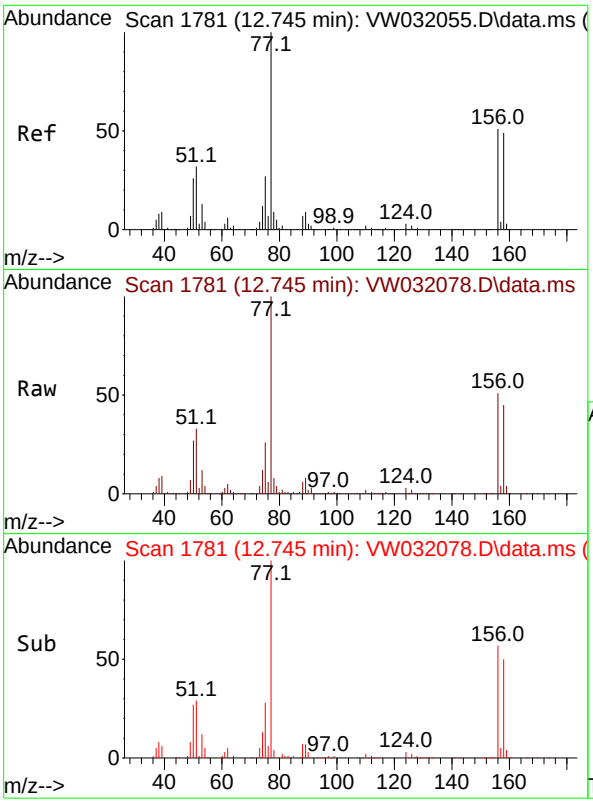




#76
1,2,3-Trichloropropane
Concen: 53.760 ug/l m
RT: 12.763 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 75 Resp: 132741

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 243.5 | 123.5 | 370.5 |

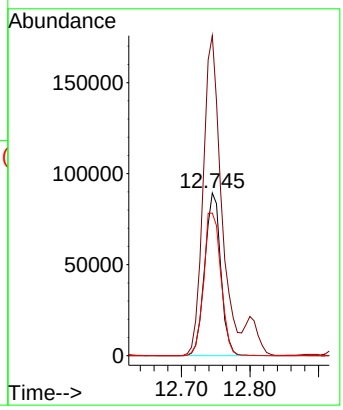





#77
Bromobenzene
Concen: 47.865 ug/l
RT: 12.745 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:156 Resp: 14534

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 222.4 | 108.7 | 326.3 |
| 158 | 94.8 | 48.3 | 144.9 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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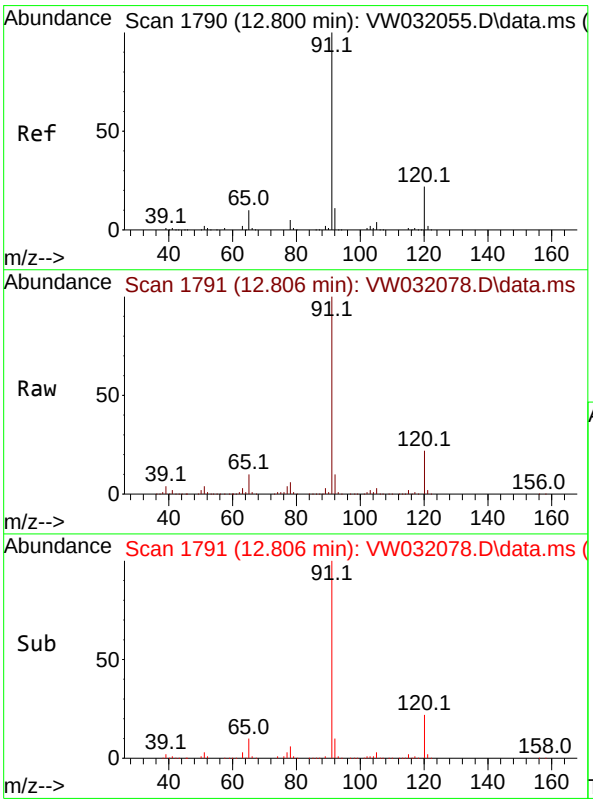
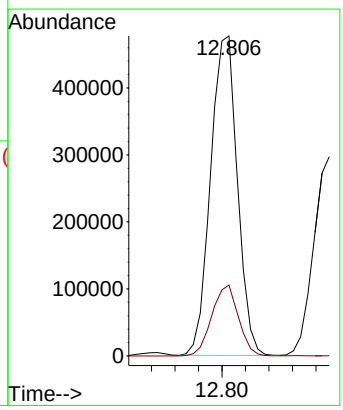
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

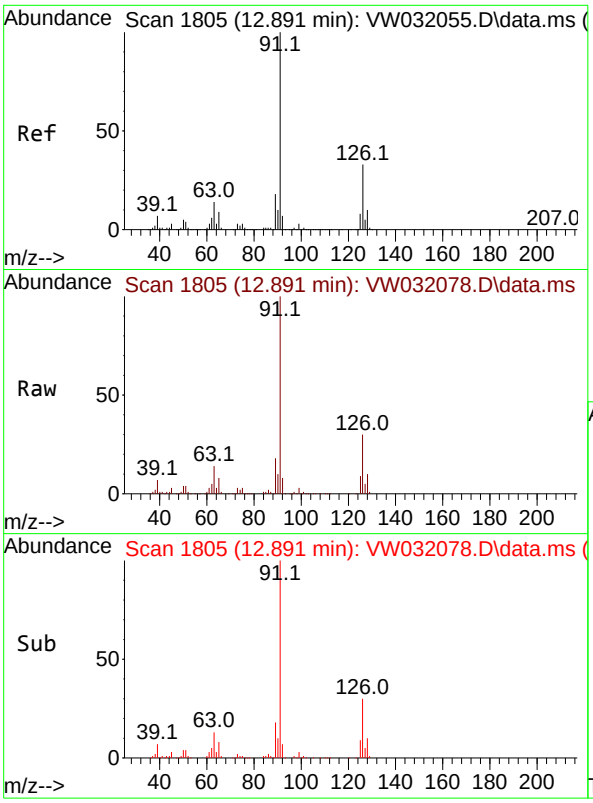



#78
n-propylbenzene
Concen: 48.311 ug/l
RT: 12.806 min Scan# 1791
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 91 Resp: 756214

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.0 | 11.1 | 33.3 |






#79
2-Chlorotoluene
Concen: 48.578 ug/l
RT: 12.891 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 91 Resp: 46929

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 30.8 | 15.9 | 47.7 |

**Instrument :**
MSVOA_W
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VSTDCCC050EC

**Manual Integrations**
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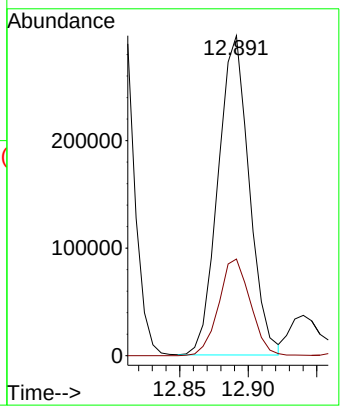
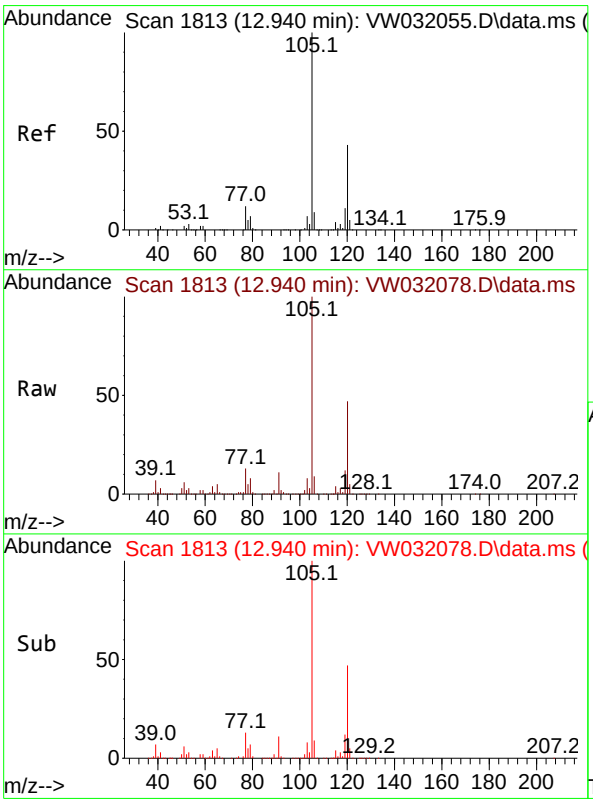
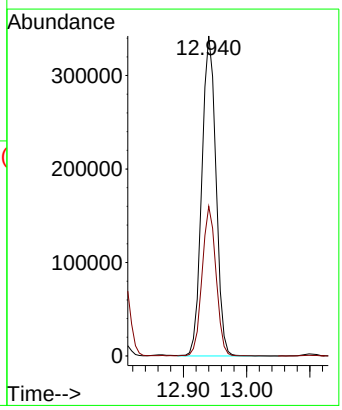


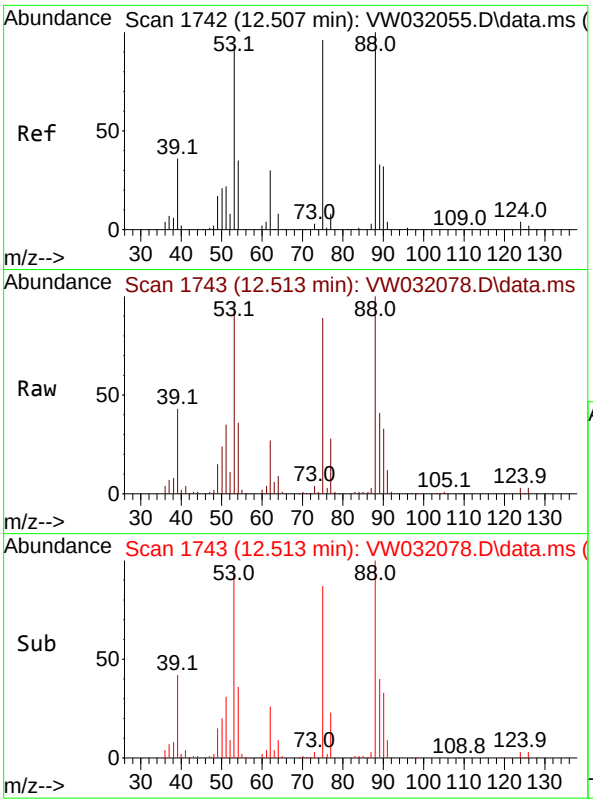




#80
1,3,5-Trimethylbenzene
Concen: 49.484 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:105 Resp: 534122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.9 | 23.4 | 70.0 |






#81
trans-1,4-Dichloro-2-butene
Concen: 46.037 ug/l
RT: 12.513 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 75 Resp: 4390

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 106.1 | 81.0 | 121.6 |
| 89 | 46.9 | 37.3 | 55.9 |

**Instrument :**
MSVOA_W
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VSTDCCC050EC

**Manual Integrations**
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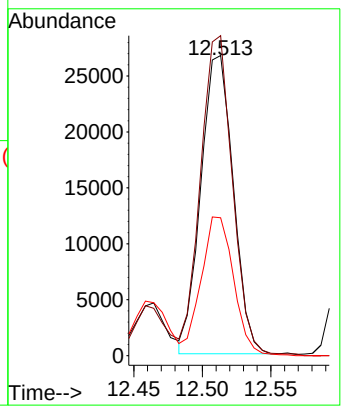
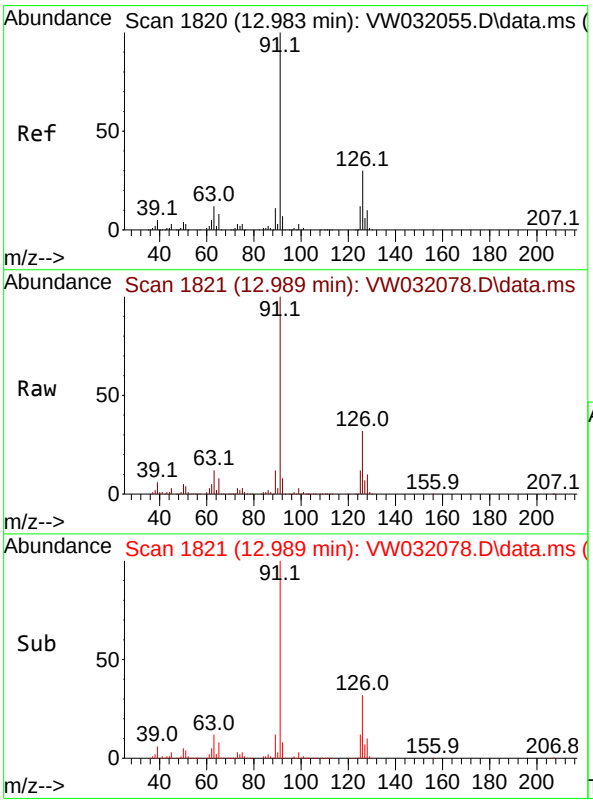
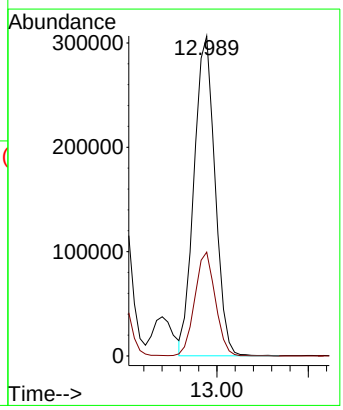


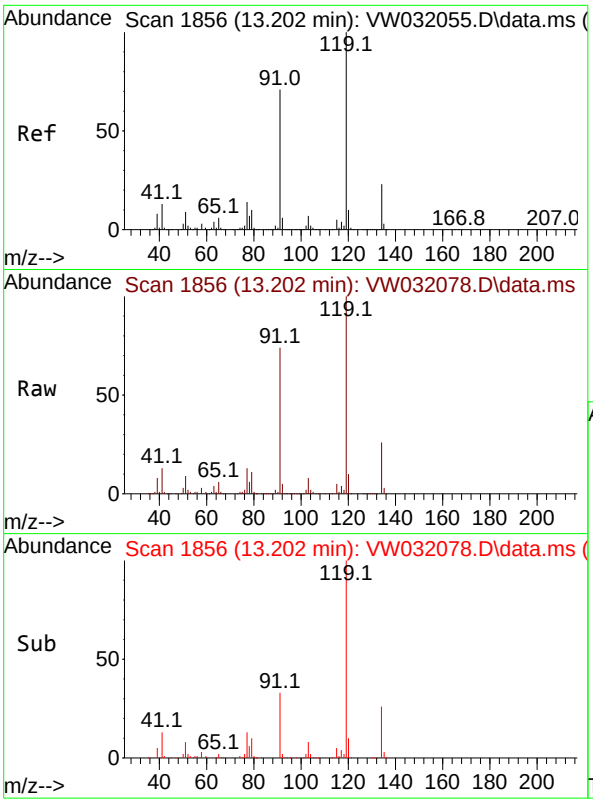




#82
4-Chlorotoluene
Concen: 47.464 ug/l
RT: 12.989 min Scan# 1821
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 91 Resp: 487171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.0 | 15.5 | 46.5 |

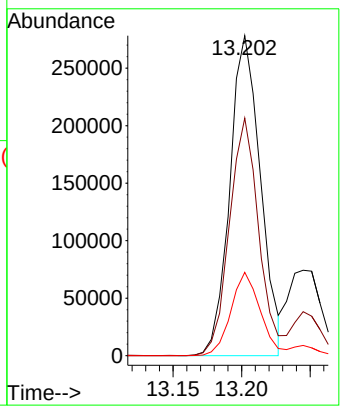





#83
tert-Butylbenzene
Concen: 48.424 ug/l
RT: 13.202 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:119 Resp: 43378

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 70.4 | 35.3 | 105.9 |
| 134 | 25.1 | 12.1 | 36.3 |




**Instrument :**
MSVOA_W
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VSTDCCC050EC

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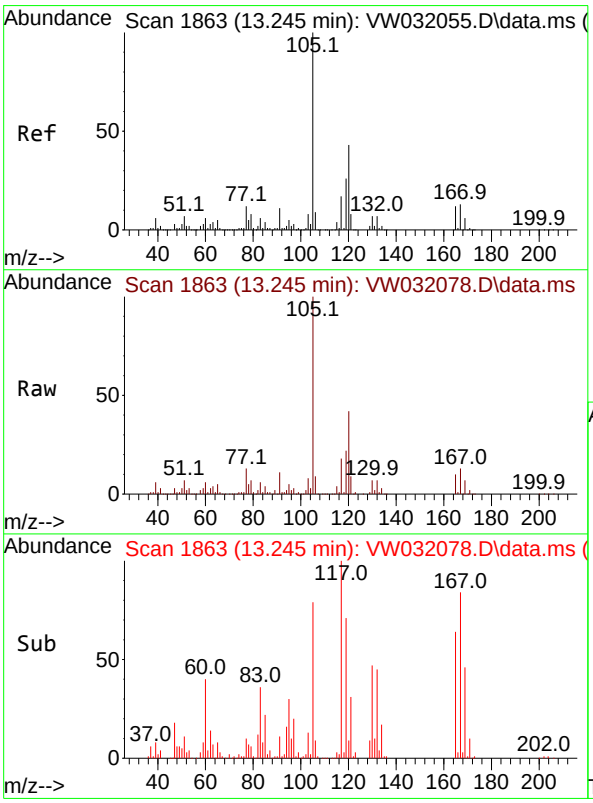
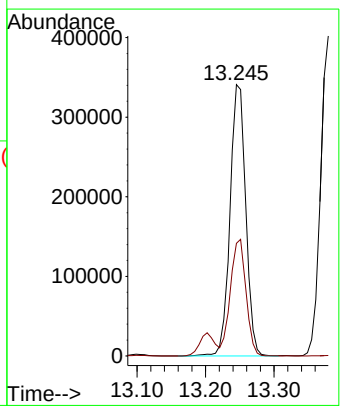
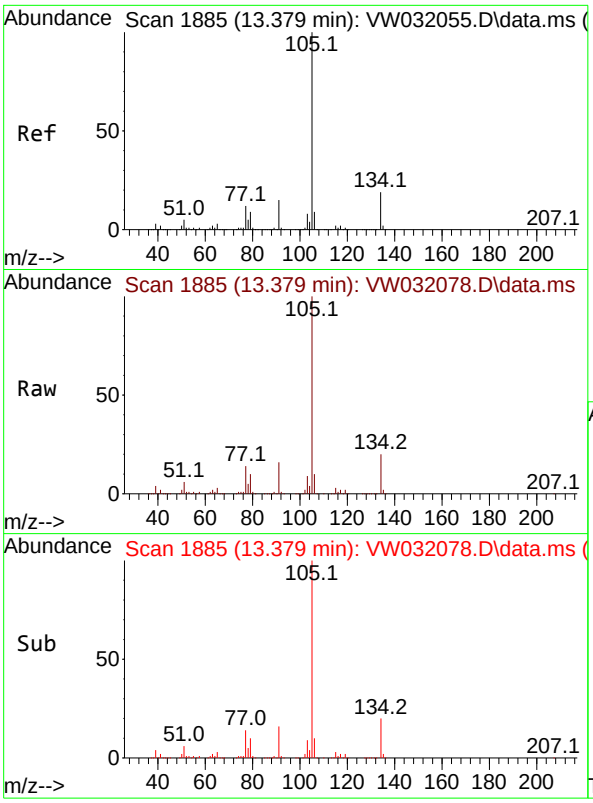



#84
1,2,4-Trimethylbenzene
Concen: 49.477 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:105 Resp: 543640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 42.9 | 21.6 | 64.8 |

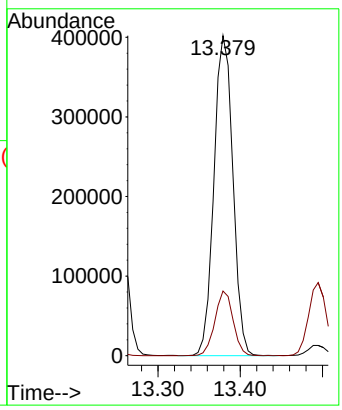





#85
sec-Butylbenzene
Concen: 47.482 ug/l
RT: 13.379 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:105 Resp: 64308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.4 | 9.9 | 29.7 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

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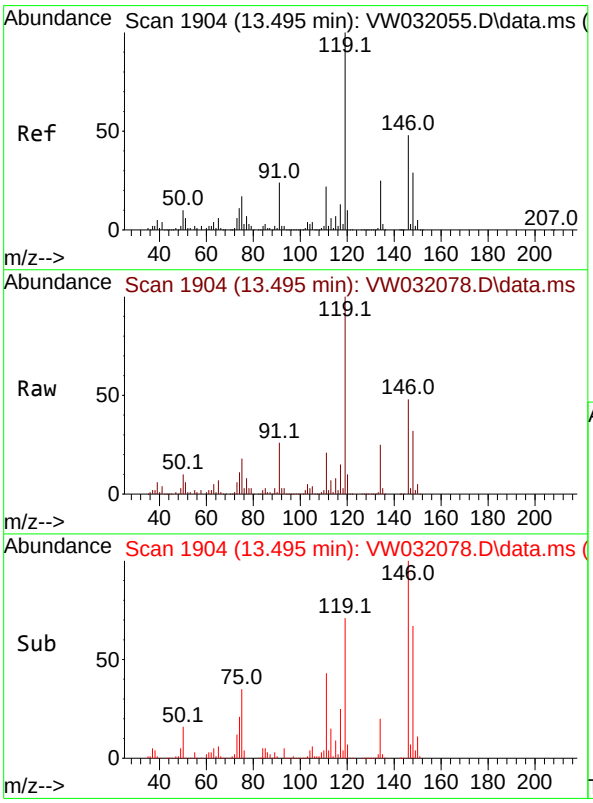
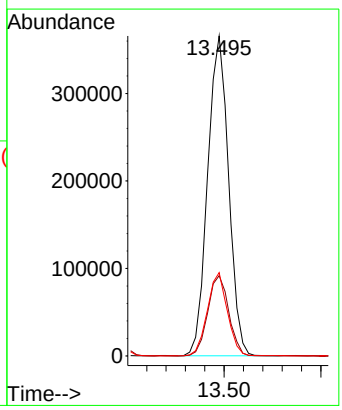
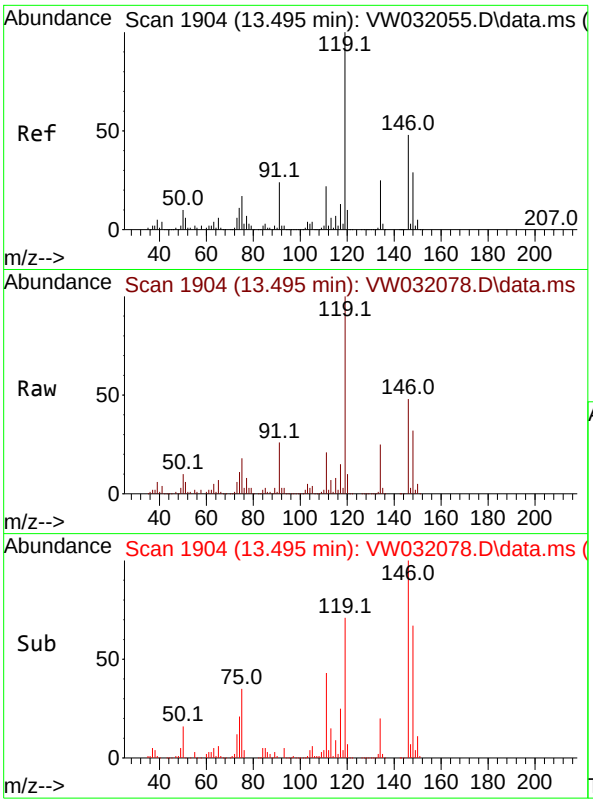



#86
p-Isopropyltoluene
Concen: 48.708 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:119 Resp: 549955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.3 | 12.4 | 37.0 |
| 91 | 24.7 | 12.1 | 36.3 |

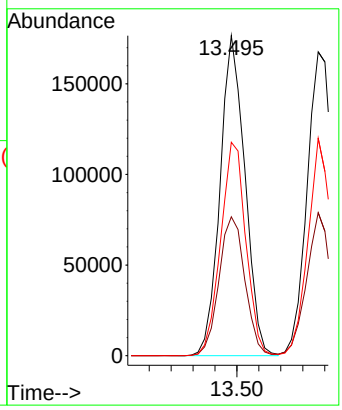





#87
1,3-Dichlorobenzene
Concen: 46.057 ug/l
RT: 13.495 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:146 Resp: 27829

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.3 | 21.2 | 63.6 |
| 148 | 67.7 | 30.3 | 90.8 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
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**Manual Integrations**
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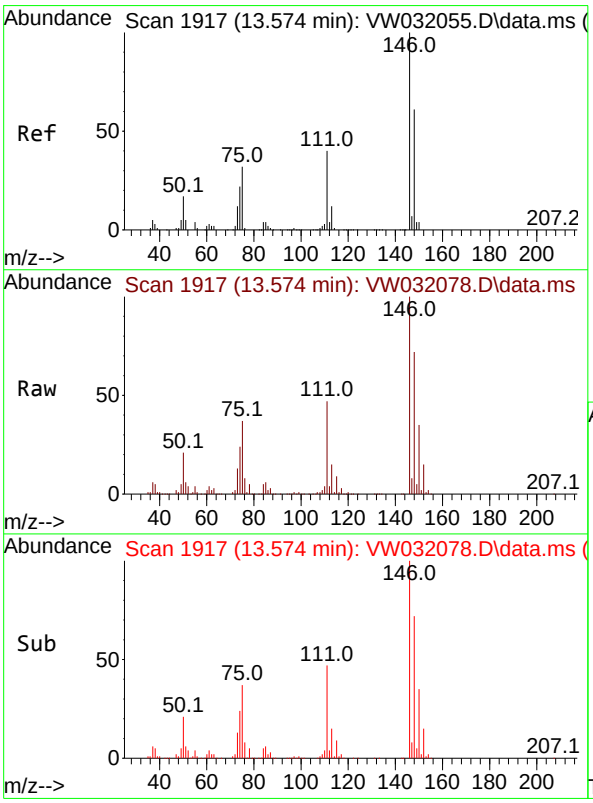
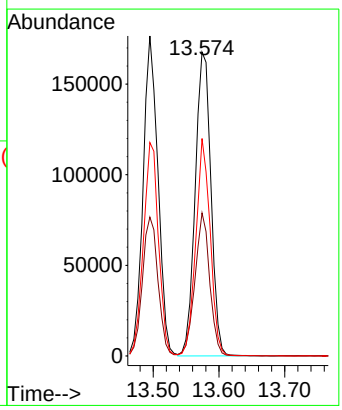
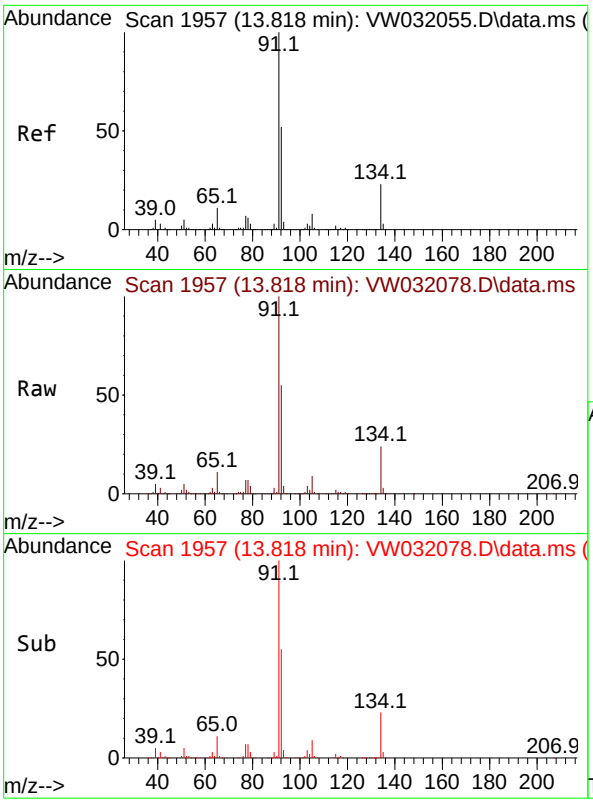



#88
1,4-Dichlorobenzene
Concen: 45.431 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:146 Resp: 277410

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.5 | 21.6 | 64.6 |
| 148 | 65.6 | 32.0 | 96.2 |

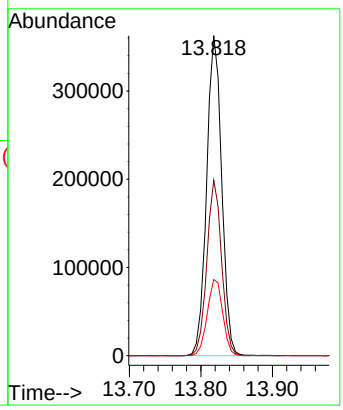





#89
n-Butylbenzene
Concen: 48.414 ug/l
RT: 13.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 91 Resp: 53106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.6 | 26.7 | 80.1 |
| 134 | 24.5 | 12.0 | 36.1 |

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MSVOA_W
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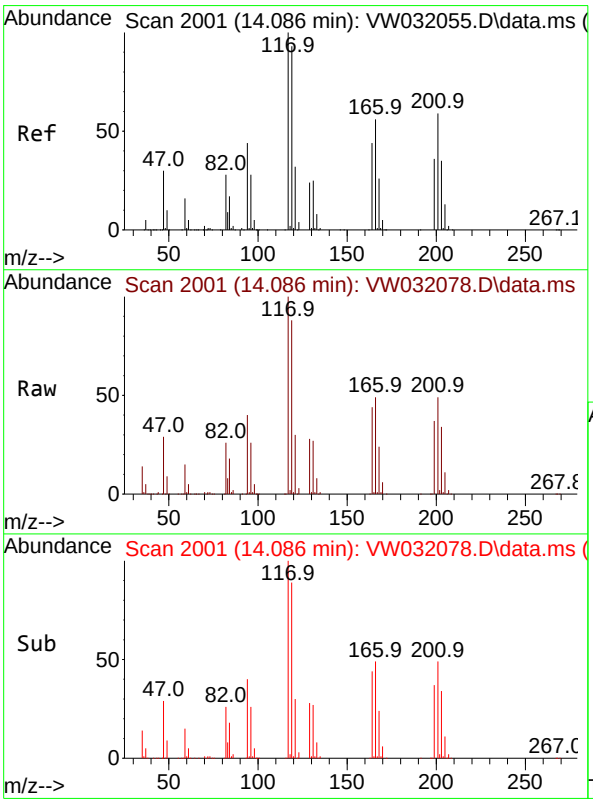
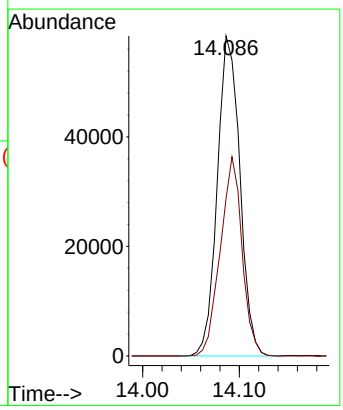
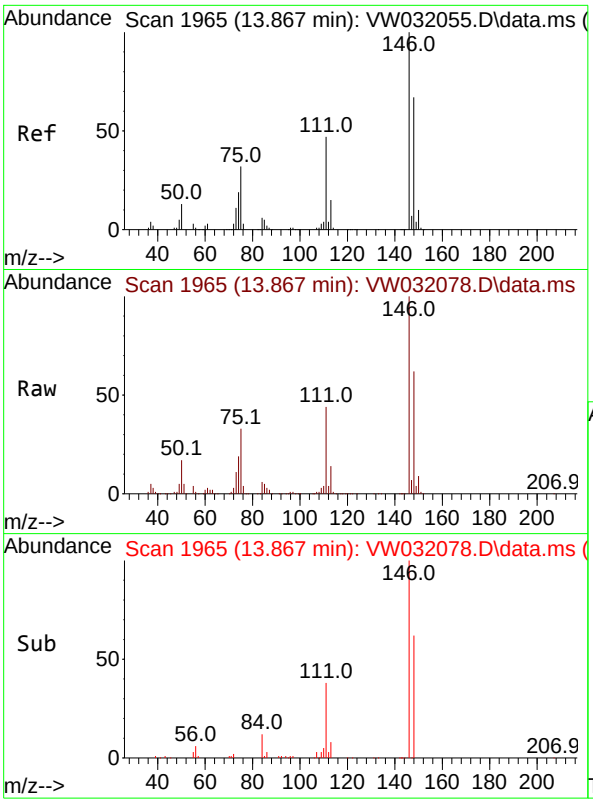



#90
Hexachloroethane
Concen: 45.779 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:117 Resp: 94529

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 60.0 | 30.9 | 92.5 |

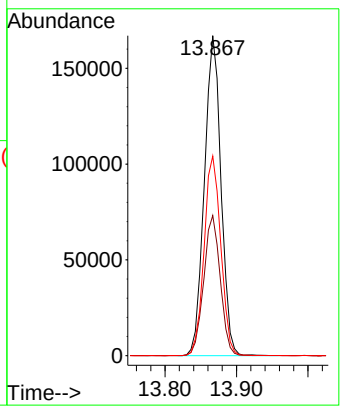





#91
1,2-Dichlorobenzene
Concen: 49.256 ug/l
RT: 13.867 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:146 Resp: 26960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.6 | 23.1 | 69.3 |
| 148 | 62.7 | 32.9 | 98.6 |




**Instrument :**
MSVOA_W
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VSTDCCC050EC

**Manual Integrations**
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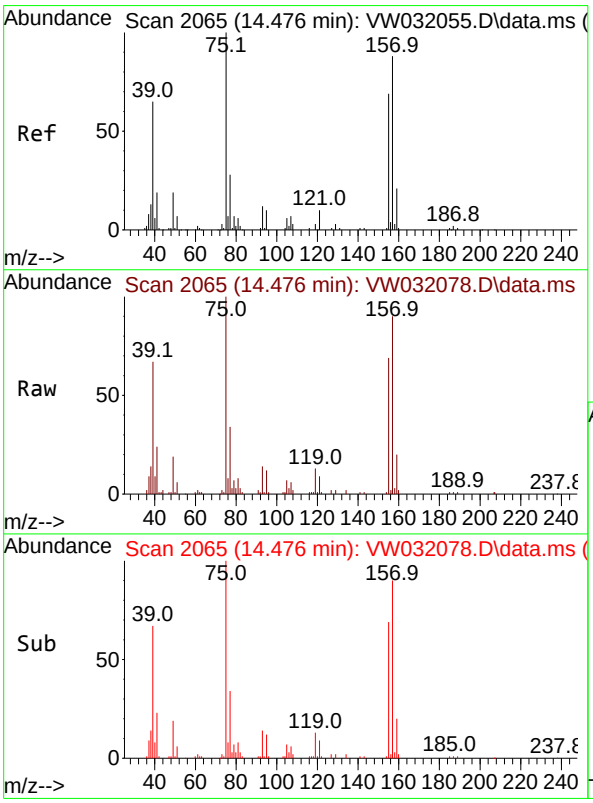
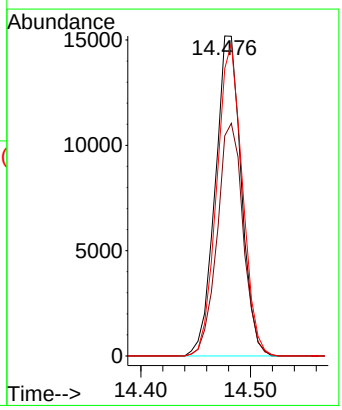
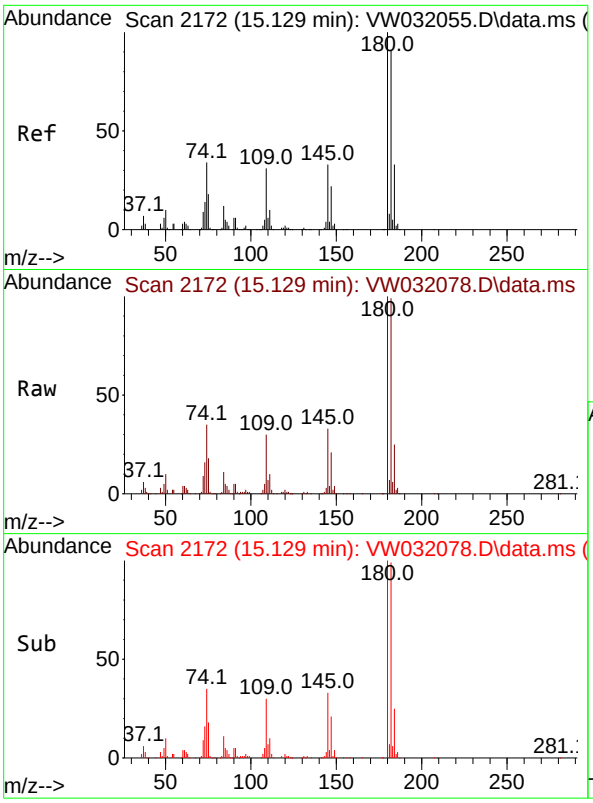



#92
1,2-Dibromo-3-Chloropropane
Concen: 46.732 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 75 Resp: 25079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 72.5 | 35.2 | 105.6 |
| 157 | 95.7 | 47.5 | 142.6 |

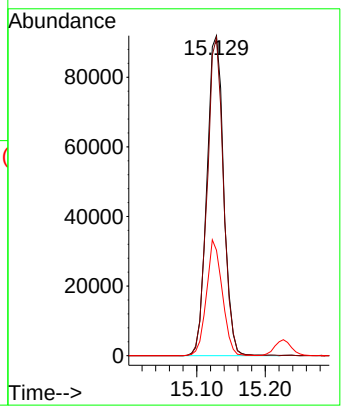





#93
1,2,4-Trichlorobenzene
Concen: 47.562 ug/l
RT: 15.129 min Scan# 2
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:180 Resp: 15573

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.6 | 49.0 | 147.0 |
| 145 | 34.4 | 17.3 | 51.9 |

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MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

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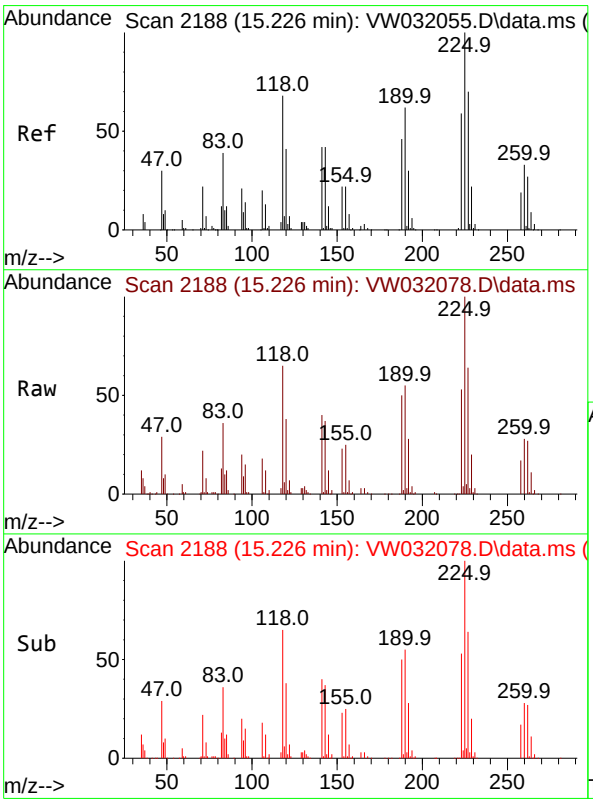
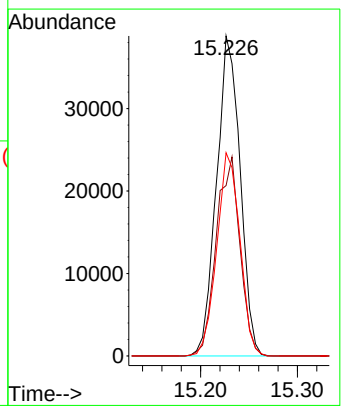
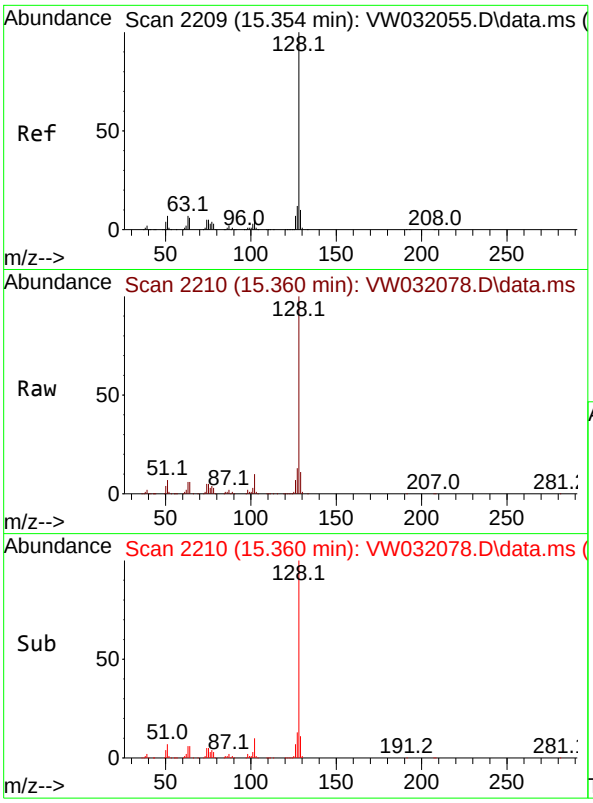



#94
Hexachlorobutadiene
Concen: 44.879 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:225 Resp: 65688

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.5 | 31.8 | 95.3 |
| 227 | 62.4 | 33.5 | 100.5 |

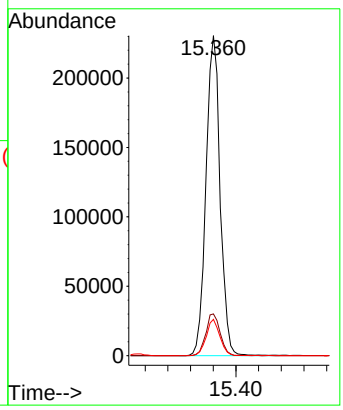





#95
Naphthalene
Concen: 49.535 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:128 Resp: 39742

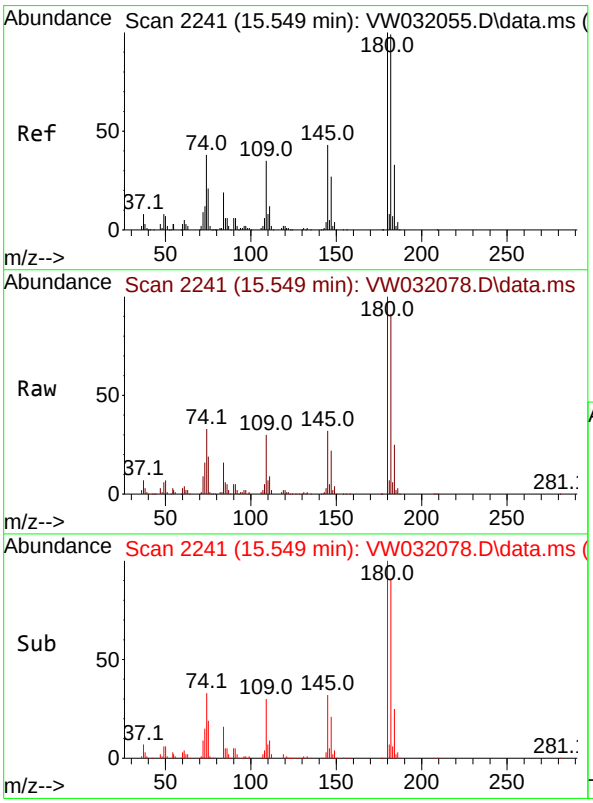
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.4 | 10.5 | 15.7 |
| 129 | 11.0 | 8.2 | 12.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

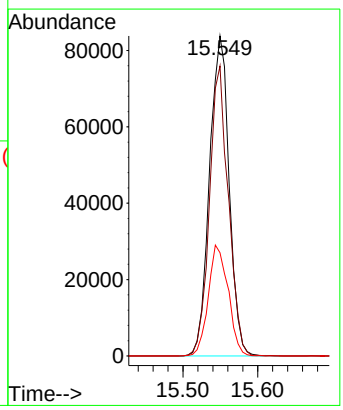
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025




#96
1,2,3-Trichlorobenzene
Concen: 51.327 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:180 Resp: 152914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 87.3 | 46.0 | 138.0 |
| 145 | 35.1 | 19.2 | 57.6 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032078.D
Acq On : 11 Aug 2025 19:31
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 29 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**LabSampleId :**
VSTDCCC050

Quant Time: Aug 12 04:30:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 101 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.358 | 0.297 | 17.0 | 89 | 0.00 |
| 3 | P | Chloromethane | 0.482 | 0.408 | 15.4 | 94 | 0.00 |
| 4 | C | Vinyl Chloride | 0.583 | 0.499 | 14.4# | 95 | 0.00 |
| 5 | T | Bromomethane | 0.437 | 0.376 | 14.0 | 92 | 0.00 |
| 6 | T | Chloroethane | 0.386 | 0.340 | 11.9 | 93 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.467 | 0.408 | 12.6 | 88 | 0.00 |
| 8 | T | Diethyl Ether | 0.382 | 0.348 | 8.9 | 92 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.551 | 0.478 | 13.2 | 93 | 0.00 |
| 10 | T | Methyl Iodide | 0.781 | 0.702 | 10.1 | 94 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.047 | 0.043 | 8.5 | 86 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.606 | 0.534 | 11.9# | 94 | 0.00 |
| 13 | T | Acrolein | 0.075 | 0.058 | 22.7 | 83 | 0.00 |
| 14 | T | Allyl chloride | 0.883 | 0.785 | 11.1 | 92 | 0.00 |
| 15 | T | Acrylonitrile | 0.182 | 0.174 | 4.4 | 91 | 0.00 |
| 16 | T | Acetone | 0.167 | 0.136 | 18.6 | 84 | 0.00 |
| 17 | T | Carbon Disulfide | 1.628 | 1.406 | 13.6 | 91 | 0.00 |
| 18 | T | Methyl Acetate | 0.530 | 0.584 | -10.2 | 106 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.068 | 1.029 | 3.7 | 94 | 0.00 |
| 20 | T | Methylene Chloride | 0.774 | 0.639 | 17.4 | 94 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.644 | 0.595 | 7.6 | 96 | 0.00 |
| 22 | T | Diisopropyl ether | 1.860 | 1.784 | 4.1 | 95 | 0.00 |
| 23 | T | Vinyl Acetate | 1.222 | 1.141 | 6.6 | 88 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.189 | 1.078 | 9.3 | 94 | 0.00 |
| 25 | T | 2-Butanone | 0.238 | 0.227 | 4.6 | 90 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.596 | 0.505 | 15.3 | 88 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.752 | 0.723 | 3.9 | 97 | 0.00 |
| 28 | T | Bromochloromethane | 0.541 | 0.530 | 2.0 | 98 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.157 | 0.154 | 1.9 | 91 | 0.00 |
| 30 | C | Chloroform | 1.260 | 1.191 | 5.5# | 97 | 0.00 |
| 31 | T | Cyclohexane | 1.031 | 0.892 | 13.5 | 93 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.915 | 0.823 | 10.1 | 95 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.723 | 0.712 | 1.5 | 100 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 102 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.323 | 0.320 | 0.9 | 100 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.455 | 0.436 | 4.2 | 95 | 0.00 |
| 37 | T | Ethyl Acetate | 0.268 | 0.266 | 0.7 | 92 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.439 | 0.405 | 7.7 | 92 | 0.00 |
| 39 | T | Methylcyclohexane | 0.555 | 0.536 | 3.4 | 94 | 0.00 |
| 40 | TM | Benzene | 1.415 | 1.355 | 4.2 | 94 | 0.00 |
| 41 | T | Methacrylonitrile | 0.152 | 0.150 | 1.3 | 91 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.453 | 0.436 | 3.8 | 95 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.493 | 0.485 | 1.6 | 92 | 0.00 |
| 44 | TM | Trichloroethene | 0.337 | 0.314 | 6.8 | 94 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.342 | 0.335 | 2.0# | 97 | 0.00 |
| 46 | T | Dibromomethane | 0.221 | 0.216 | 2.3 | 96 | 0.00 |
| 47 | T | Bromodichloromethane | 0.509 | 0.497 | 2.4 | 95 | 0.00 |
| 48 | T | Methyl methacrylate | 0.238 | 0.245 | -2.9 | 94 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032078.D
Acq On : 11 Aug 2025 19:31
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 29 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**LabSampleId :**
VSTDCCC050

Quant Time: Aug 12 04:30:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 0.003 | 0.003 | 0.0 | 89 | 0.00 |
| 50 | S | Toluene-d8 | 1.195 | 1.199 | -0.3 | 98 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.279 | 0.281 | -0.7 | 92 | 0.00 |
| 52 | CM | Toluene | 0.892 | 0.879 | 1.5# | 96 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.476 | 0.456 | 4.2 | 90 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.541 | 0.524 | 3.1 | 92 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.293 | 0.288 | 1.7 | 96 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.392 | 0.403 | -2.8 | 93 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.511 | 0.494 | 3.3 | 94 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.217 | 0.230 | -6.0 | 97 | 0.00 |
| 59 | T | 2-Hexanone | 0.193 | 0.196 | -1.6 | 90 | 0.00 |
| 60 | T | Dibromochloromethane | 0.335 | 0.325 | 3.0 | 95 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.285 | 0.280 | 1.8 | 95 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.440 | 0.437 | 0.7 | 97 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 106 | 0.00 |
| 64 | T | Tetrachloroethene | 0.289 | 0.259 | 10.4 | 98 | 0.00 |
| 65 | PM | Chlorobenzene | 1.088 | 0.977 | 10.2 | 97 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.340 | 0.314 | 7.6 | 98 | 0.00 |
| 67 | C | Ethyl Benzene | 1.843 | 1.690 | 8.3# | 95 | 0.00 |
| 68 | T | m/p-Xylenes | 0.711 | 0.638 | 10.3 | 92 | 0.00 |
| 69 | T | o-Xylene | 0.657 | 0.626 | 4.7 | 97 | 0.00 |
| 70 | T | Styrene | 1.168 | 1.112 | 4.8 | 97 | 0.00 |
| 71 | P | Bromoform | 0.194 | 0.187 | 3.6 | 96 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 102 | 0.00 |
| 73 | T | Isopropylbenzene | 3.494 | 3.384 | 3.1 | 94 | 0.00 |
| 74 | T | N-amyl acetate | 1.003 | 0.961 | 4.2 | 88 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.830 | 0.788 | 5.1 | 92 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.679 | 0.730 | -7.5 | 96 | 0.00 |
| 77 | T | Bromobenzene | 0.835 | 0.799 | 4.3 | 93 | 0.00 |
| 78 | T | n-propylbenzene | 4.302 | 4.157 | 3.4 | 94 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.655 | 2.580 | 2.8 | 96 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.967 | 2.936 | 1.0 | 96 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.262 | 0.241 | 8.0 | 85 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.821 | 2.678 | 5.1 | 94 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.462 | 2.384 | 3.2 | 94 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.020 | 2.988 | 1.1 | 95 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.722 | 3.535 | 5.0 | 93 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.103 | 3.023 | 2.6 | 93 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.661 | 1.530 | 7.9 | 89 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.678 | 1.525 | 9.1 | 93 | 0.00 |
| 89 | T | n-Butylbenzene | 3.015 | 2.919 | 3.2 | 93 | 0.00 |
| 90 | T | Hexachloroethane | 0.568 | 0.520 | 8.5 | 93 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.504 | 1.482 | 1.5 | 99 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.147 | 0.138 | 6.1 | 88 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.900 | 0.856 | 4.9 | 95 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.402 | 0.361 | 10.2 | 95 | 0.00 |
| 95 | T | Naphthalene | 2.205 | 2.185 | 0.9 | 91 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032078.D
Acq On : 11 Aug 2025 19:31
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 29 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**LabSampleId :**
VSTDCCC050

Quant Time: Aug 12 04:30:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 0.819 | 0.841 | -2.7 | 102 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032078.D
Acq On : 11 Aug 2025 19:31
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 29 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**LabSampleId :**
VSTDCCC050

Quant Time: Aug 12 04:30:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 101 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 41.544 | 16.9 | 89 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 42.300 | 15.4 | 94 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 42.835 | 14.3# | 95 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 43.036 | 13.9 | 92 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 44.108 | 11.8 | 93 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 43.678 | 12.6 | 88 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 45.468 | 9.1 | 92 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 43.412 | 13.2 | 93 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 44.922 | 10.2 | 94 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 229.131 | 8.3 | 86 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 44.059 | 11.9# | 94 | 0.00 |
| 13 | T | Acrolein | 250.000 | 194.795 | 22.1 | 83 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 44.462 | 11.1 | 92 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 238.510 | 4.6 | 91 | 0.00 |
| 16 | T | Acetone | 250.000 | 202.983 | 18.8 | 84 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 43.178 | 13.6 | 91 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 55.142 | -10.3 | 106 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 48.139 | 3.7 | 94 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 41.285 | 17.4 | 94 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 46.267 | 7.5 | 96 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 47.935 | 4.1 | 95 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 233.574 | 6.6 | 88 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 45.363 | 9.3 | 94 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 238.766 | 4.5 | 90 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 42.306 | 15.4 | 88 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 48.061 | 3.9 | 97 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 48.947 | 2.1 | 98 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 245.333 | 1.9 | 91 | 0.00 |
| 30 | C | Chloroform | 50.000 | 47.266 | 5.5# | 97 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 43.259 | 13.5 | 93 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 44.949 | 10.1 | 95 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 49.202 | 1.6 | 100 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 102 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 49.565 | 0.9 | 100 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 47.825 | 4.3 | 95 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 49.608 | 0.8 | 92 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 46.065 | 7.9 | 92 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 48.261 | 3.5 | 94 | 0.00 |
| 40 | TM | Benzene | 50.000 | 47.879 | 4.2 | 94 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 49.286 | 1.4 | 91 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 48.163 | 3.7 | 95 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 49.147 | 1.7 | 92 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 46.608 | 6.8 | 94 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 49.043 | 1.9# | 97 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 48.945 | 2.1 | 96 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 48.852 | 2.3 | 95 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 51.471 | -2.9 | 94 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032078.D
Acq On : 11 Aug 2025 19:31
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 29 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**LabSampleId :**
VSTDCCC050

Quant Time: Aug 12 04:30:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 1000.000 | 1001.497 | -0.1 | 89 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 50.187 | -0.4 | 98 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 252.344 | -0.9 | 92 | 0.00 |
| 52 | CM | Toluene | 50.000 | 49.271 | 1.5# | 96 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 47.848 | 4.3 | 90 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 48.425 | 3.2 | 92 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 49.042 | 1.9 | 96 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 51.306 | -2.6 | 93 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 48.292 | 3.4 | 94 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 265.209 | -6.1 | 97 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 253.545 | -1.4 | 90 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 48.560 | 2.9 | 95 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 49.186 | 1.6 | 95 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 49.666 | 0.7 | 97 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 106 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 44.767 | 10.5 | 98 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 44.896 | 10.2 | 97 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 46.243 | 7.5 | 98 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 45.839 | 8.3# | 95 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 89.674 | 10.3 | 92 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 47.586 | 4.8 | 97 | 0.00 |
| 70 | T | Styrene | 50.000 | 47.626 | 4.7 | 97 | 0.00 |
| 71 | P | Bromoform | 50.000 | 48.185 | 3.6 | 96 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 102 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 48.421 | 3.2 | 94 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 47.933 | 4.1 | 88 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 47.484 | 5.0 | 92 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 53.760 | -7.5 | 96 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 47.865 | 4.3 | 93 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 48.311 | 3.4 | 94 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 48.578 | 2.8 | 96 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 49.484 | 1.0 | 96 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 46.037 | 7.9 | 85 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 47.464 | 5.1 | 94 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 48.424 | 3.2 | 94 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 49.477 | 1.0 | 95 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 47.482 | 5.0 | 93 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 48.708 | 2.6 | 93 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 46.057 | 7.9 | 89 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 45.431 | 9.1 | 93 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 48.414 | 3.2 | 93 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 45.779 | 8.4 | 93 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 49.256 | 1.5 | 99 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 46.732 | 6.5 | 88 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 47.562 | 4.9 | 95 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 44.879 | 10.2 | 95 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 49.535 | 0.9 | 91 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032078.D
Acq On : 11 Aug 2025 19:31
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 29 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**LabSampleId :**
VSTDCCC050

Quant Time: Aug 12 04:30:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 51.327 | -2.7 | 102 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance
Contract: FIRS02
Lab Code: ACE
SDG No.: Q2819
Instrument ID: MSVOA_Y
Calibration Date/Time: 08/13/2025 09:37
Lab File ID: VY023059.D
Init. Calib. Date(s): 08/12/2025 08/12/2025
Heated Purge: (Y/N) Y
Init. Calib. Time(s): 14:54 16:47
GC Column: RXI-624 ID: 0.25 (mm)

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.408 | 0.335 | | -17.89 | 20 |
| Chloromethane | 0.661 | 0.620 | 0.1 | -6.2 | 20 |
| Vinyl Chloride | 0.817 | 0.788 | | -3.55 | 20 |
| Bromomethane | 0.610 | 0.575 | | -5.74 | 20 |
| Chloroethane | 0.543 | 0.535 | | -1.47 | 20 |
| Trichlorofluoromethane | 0.994 | 0.944 | | -5.03 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.490 | 0.465 | | -5.1 | 20 |
| 1,1-Dichloroethene | 0.482 | 0.459 | | -4.77 | 20 |
| Acetone | 0.103 | 0.105 | | 1.94 | 20 |
| Carbon Disulfide | 1.571 | 1.497 | | -4.71 | 20 |
| Methyl tert-butyl Ether | 1.249 | 1.158 | | -7.29 | 20 |
| Methyl Acetate | 0.307 | 0.256 | | -16.61 | 20 |
| Methylene Chloride | 0.620 | 0.519 | | -16.29 | 20 |
| trans-1,2-Dichloroethene | 0.541 | 0.526 | | -2.77 | 20 |
| 1,1-Dichloroethane | 0.942 | 0.913 | 0.1 | -3.08 | 20 |
| Cyclohexane | 0.888 | 0.821 | | -7.55 | 20 |
| 2-Butanone | 0.140 | 0.129 | | -7.86 | 20 |
| Carbon Tetrachloride | 0.483 | 0.472 | | -2.28 | 20 |
| cis-1,2-Dichloroethene | 0.626 | 0.597 | | -4.63 | 20 |
| Bromochloromethane | 0.374 | 0.368 | | -1.6 | 20 |
| Chloroform | 0.971 | 0.932 | | -4.02 | 20 |
| 1,1,1-Trichloroethane | 0.862 | 0.841 | | -2.44 | 20 |
| Methylcyclohexane | 0.586 | 0.575 | | -1.88 | 20 |
| Benzene | 1.370 | 1.334 | | -2.63 | 20 |
| 1,2-Dichloroethane | 0.356 | 0.340 | | -4.49 | 20 |
| Trichloroethene | 0.354 | 0.344 | | -2.83 | 20 |
| 1,2-Dichloropropane | 0.315 | 0.306 | | -2.86 | 20 |
| Bromodichloromethane | 0.466 | 0.450 | | -3.43 | 20 |
| 4-Methyl-2-Pentanone | 0.195 | 0.181 | | -7.18 | 20 |
| Toluene | 0.870 | 0.864 | | -0.69 | 20 |
| t-1,3-Dichloropropene | 0.422 | 0.410 | | -2.84 | 20 |
| cis-1,3-Dichloropropene | 0.499 | 0.485 | | -2.81 | 20 |
| 1,1,2-Trichloroethane | 0.242 | 0.224 | | -7.44 | 20 |
| 2-Hexanone | 0.133 | 0.129 | | -3.01 | 20 |
| Dibromochloromethane | 0.320 | 0.300 | | -6.25 | 20 |
| 1,2-Dibromoethane | 0.228 | 0.213 | | -6.58 | 20 |
| Tetrachloroethene | 0.446 | 0.447 | | 0.22 | 20 |
| Chlorobenzene | 1.079 | 1.043 | 0.3 | -3.34 | 20 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

## VOLATILE CONTINUING CALIBRATION CHECK

| | | | |
|---|---|---|---|
| Lab Name: | Alliance | Contract: | FIRS02 |
| Lab Code: | ACE | SDG No.: | Q2819 |
| Instrument ID: | MSVOA_Y | Calibration Date/Time: | 08/13/2025 09:37 |
| Lab File ID: | VY023059.D | Init. Calib. Date(s): | 08/12/2025 08/12/2025 |
| Heated Purge: (Y/N) | Y | Init. Calib. Time(s): | 14:54 16:47 |

GC Column: RXI-624 ID: 0.25 (mm)

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Ethyl Benzene | 1.856 | 1.856 | | 0 | 20 |
| m/p-Xylenes | 0.725 | 0.725 | | 0 | 20 |
| o-Xylene | 0.679 | 0.681 | | 0.29 | 20 |
| Styrene | 1.110 | 1.123 | | 1.17 | 20 |
| Bromoform | 0.214 | 0.195 | 0.1 | -8.88 | 20 |
| Isopropylbenzene | 3.529 | 3.623 | | 2.66 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.603 | 0.553 | 0.3 | -8.29 | 20 |
| 1,3-Dichlorobenzene | 1.660 | 1.656 | | -0.24 | 20 |
| 1,4-Dichlorobenzene | 1.647 | 1.613 | | -2.06 | 20 |
| 1,2-Dichlorobenzene | 1.456 | 1.412 | | -3.02 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.094 | 0.089 | | -5.32 | 20 |
| 1,2,4-Trichlorobenzene | 0.861 | 0.831 | | -3.48 | 20 |
| 1,2,3-Trichlorobenzene | 0.742 | 0.698 | | -5.93 | 20 |
| 1,2-Dichloroethane-d4 | 0.477 | 0.476 | | -0.21 | 20 |
| Dibromofluoromethane | 0.299 | 0.301 | | 0.67 | 20 |
| Toluene-d8 | 1.169 | 1.200 | | 2.65 | 20 |
| 4-Bromofluorobenzene | 0.376 | 0.376 | | 0 | 20 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023059.D
Acq On : 13 Aug 2025 09:37
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 01:19:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| **Internal Standards** | | | | | |
| 1) Pentafluorobenzene | 7.701 | 168 | 535817 | 50.000 ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.609 | 114 | 845865 | 50.000 ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 741859 | 50.000 ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 361154 | 50.000 ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.055 | 65 | 254983 | 49.931 ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 99.860% | | |
| 35) Dibromofluoromethane | 7.628 | 113 | 254219 | 50.227 ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 100.460% | | |
| 50) Toluene-d8 | 10.103 | 98 | 1014903 | 51.328 ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 102.660% | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 318073 | 50.020 ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 100.040% | | |
| **Target Compounds** | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.861 | 85 | 179347 | 41.006 ug/l | 97 |
| 3) Chloromethane | 2.068 | 50 | 331973 | 46.863 ug/l | 99 |
| 4) Vinyl Chloride | 2.202 | 62 | 422026 | 48.195 ug/l | 99 |
| 5) Bromomethane | 2.592 | 94 | 308334 | 47.148 ug/l | 97 |
| 6) Chloroethane | 2.732 | 64 | 286888 | 49.279 ug/l | 100 |
| 7) Trichlorofluoromethane | 3.049 | 101 | 505891 | 47.512 ug/l | 98 |
| 8) Diethyl Ether | 3.452 | 74 | 128306 | 45.547 ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 3.811 | 101 | 249222 | 47.444 ug/l | 99 |
| 10) Methyl Iodide | 3.994 | 142 | 285188 | 50.312 ug/l | 99 |
| 11) Tert butyl alcohol | 4.860 | 59 | 73451 | 209.916 ug/l | 100 |
| 12) 1,1-Dichloroethene | 3.781 | 96 | 245840 | 47.613 ug/l | 99 |
| 13) Acrolein | 3.647 | 56 | 106236 | 207.313 ug/l | 98 |
| 14) Allyl chloride | 4.378 | 41 | 367684 | 48.395 ug/l | 99 |
| 15) Acrylonitrile | 5.049 | 53 | 258896 | 226.059 ug/l | 99 |
| 16) Acetone | 3.866 | 43 | 280197 | 253.265 ug/l | 97 |
| 17) Carbon Disulfide | 4.098 | 76 | 802293 | 47.654 ug/l | 100 |
| 18) Methyl Acetate | 4.378 | 43 | 137365 | 41.723 ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.110 | 73 | 620651 | 46.387 ug/l | 99 |
| 20) Methylene Chloride | 4.610 | 84 | 277983 | 48.260 ug/l | 100 |
| 21) trans-1,2-Dichloroethene | 5.104 | 96 | 281759 | 48.558 ug/l | 99 |
| 22) Diisopropyl ether | 6.018 | 45 | 804095 | 48.705 ug/l | 98 |
| 23) Vinyl Acetate | 5.951 | 43 | 2205285 | 241.571 ug/l | 99 |
| 24) 1,1-Dichloroethane | 5.909 | 63 | 489342 | 48.480 ug/l | 99 |
| 25) 2-Butanone | 6.890 | 43 | 345112 | 229.361 ug/l | 99 |
| 26) 2,2-Dichloropropane | 6.878 | 77 | 435291 | 49.978 ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 6.884 | 96 | 319779 | 47.671 ug/l | 98 |
| 28) Bromochloromethane | 7.238 | 49 | 197112 | 49.222 ug/l | 98 |
| 29) Tetrahydrofuran | 7.256 | 42 | 209787 | 224.929 ug/l | 99 |
| 30) Chloroform | 7.414 | 83 | 499613 | 47.994 ug/l | 98 |
| 31) Cyclohexane | 7.695 | 56 | 440040 | 46.262 ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 450437 | 48.765 ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.829 | 75 | 365059 | 48.533 ug/l | 99 |
| 37) Ethyl Acetate | 6.976 | 43 | 143345 | 45.366 ug/l | 98 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 399023 | 48.841 ug/l | 97 |
| 39) Methylcyclohexane | 9.103 | 83 | 486544 | 49.119 ug/l | 98 |
| 40) Benzene | 8.079 | 78 | 1128264 | 48.666 ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023059.D
Acq On : 13 Aug 2025 09:37
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 01:19:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.219 | 41 | 82958 | 45.492 ug/l | 97 |
| 42) 1,2-Dichloroethane | 8.152 | 62 | 287233 | 47.637 ug/l | 99 |
| 43) Isopropyl Acetate | 8.195 | 43 | 294919 | 46.179 ug/l # | 85 |
| 44) Trichloroethene | 8.859 | 130 | 290876 | 48.551 ug/l | 98 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 259199 | 48.591 ug/l | 98 |
| 46) Dibromomethane | 9.225 | 93 | 147784 | 48.268 ug/l | 96 |
| 47) Bromodichloromethane | 9.420 | 83 | 380333 | 48.276 ug/l | 99 |
| 48) Methyl methacrylate | 9.219 | 41 | 139803 | 45.747 ug/l | 97 |
| 49) 1,4-Dioxane | 9.225 | 88 | 32506 | 905.464 ug/l | 94 |
| 51) 4-Methyl-2-Pentanone | 9.993 | 43 | 766289 | 232.613 ug/l | 100 |
| 52) Toluene | 10.170 | 92 | 730616 | 49.619 ug/l | 100 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 346881 | 48.623 ug/l | 99 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 410557 | 48.667 ug/l | 98 |
| 55) 1,1,2-Trichloroethane | 10.566 | 97 | 189812 | 46.330 ug/l | 95 |
| 56) Ethyl methacrylate | 10.438 | 69 | 252654 | 48.194 ug/l | 99 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 328997 | 47.351 ug/l | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 609788 | 246.593 ug/l | 99 |
| 59) 2-Hexanone | 10.755 | 43 | 545617 | 243.235 ug/l | 98 |
| 60) Dibromochloromethane | 10.908 | 129 | 253556 | 46.904 ug/l | 99 |
| 61) 1,2-Dibromoethane | 11.011 | 107 | 180061 | 46.761 ug/l | 99 |
| 64) Tetrachloroethene | 10.646 | 164 | 331676 | 50.070 ug/l | 97 |
| 65) Chlorobenzene | 11.438 | 112 | 773624 | 48.346 ug/l | 96 |
| 66) 1,1,1,2-Tetrachloroethane | 11.511 | 131 | 261298 | 48.113 ug/l | 99 |
| 67) Ethyl Benzene | 11.517 | 91 | 1376524 | 49.987 ug/l | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 1075458 | 99.994 ug/l | 99 |
| 69) o-Xylene | 11.950 | 106 | 505296 | 50.162 ug/l | 99 |
| 70) Styrene | 11.969 | 104 | 833474 | 50.595 ug/l | 100 |
| 71) Bromoform | 12.127 | 173 | 144602 | 45.557 ug/l | 100 |
| 73) Isopropylbenzene | 12.249 | 105 | 1308324 | 51.327 ug/l | 100 |
| 74) N-amyl acetate | 12.066 | 43 | 269858 | 49.922 ug/l | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 199792 | 45.905 ug/l | 100 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 169584m | 48.654 ug/l | |
| 77) Bromobenzene | 12.529 | 156 | 296723 | 48.794 ug/l | 98 |
| 78) n-propylbenzene | 12.590 | 91 | 1579912 | 52.061 ug/l | 100 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 881616 | 50.703 ug/l | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.731 | 105 | 1062229 | 51.563 ug/l | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.298 | 75 | 69624 | 48.354 ug/l | 98 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 913772 | 50.659 ug/l | 100 |
| 83) tert-Butylbenzene | 12.993 | 119 | 950248 | 51.072 ug/l | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.041 | 105 | 1060687 | 51.723 ug/l | 100 |
| 85) sec-Butylbenzene | 13.170 | 105 | 1414361 | 51.748 ug/l | 100 |
| 86) p-Isopropyltoluene | 13.285 | 119 | 1182656 | 52.130 ug/l | 100 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 598001 | 49.866 ug/l | 99 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 582375 | 48.956 ug/l | 100 |
| 89) n-Butylbenzene | 13.615 | 91 | 1098867 | 52.737 ug/l | 99 |
| 90) Hexachloroethane | 13.877 | 117 | 234252 | 50.439 ug/l | 98 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 509973 | 48.490 ug/l | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 32155 | 47.451 ug/l | 95 |
| 93) 1,2,4-Trichlorobenzene | 14.913 | 180 | 300082 | 48.250 ug/l | 99 |
| 94) Hexachlorobutadiene | 15.017 | 225 | 175599 | 48.048 ug/l | 99 |
| 95) Naphthalene | 15.139 | 128 | 502833 | 47.413 ug/l | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.322 | 180 | 252008 | 47.023 ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023059.D
Acq On : 13 Aug 2025 09:37
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 01:19:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

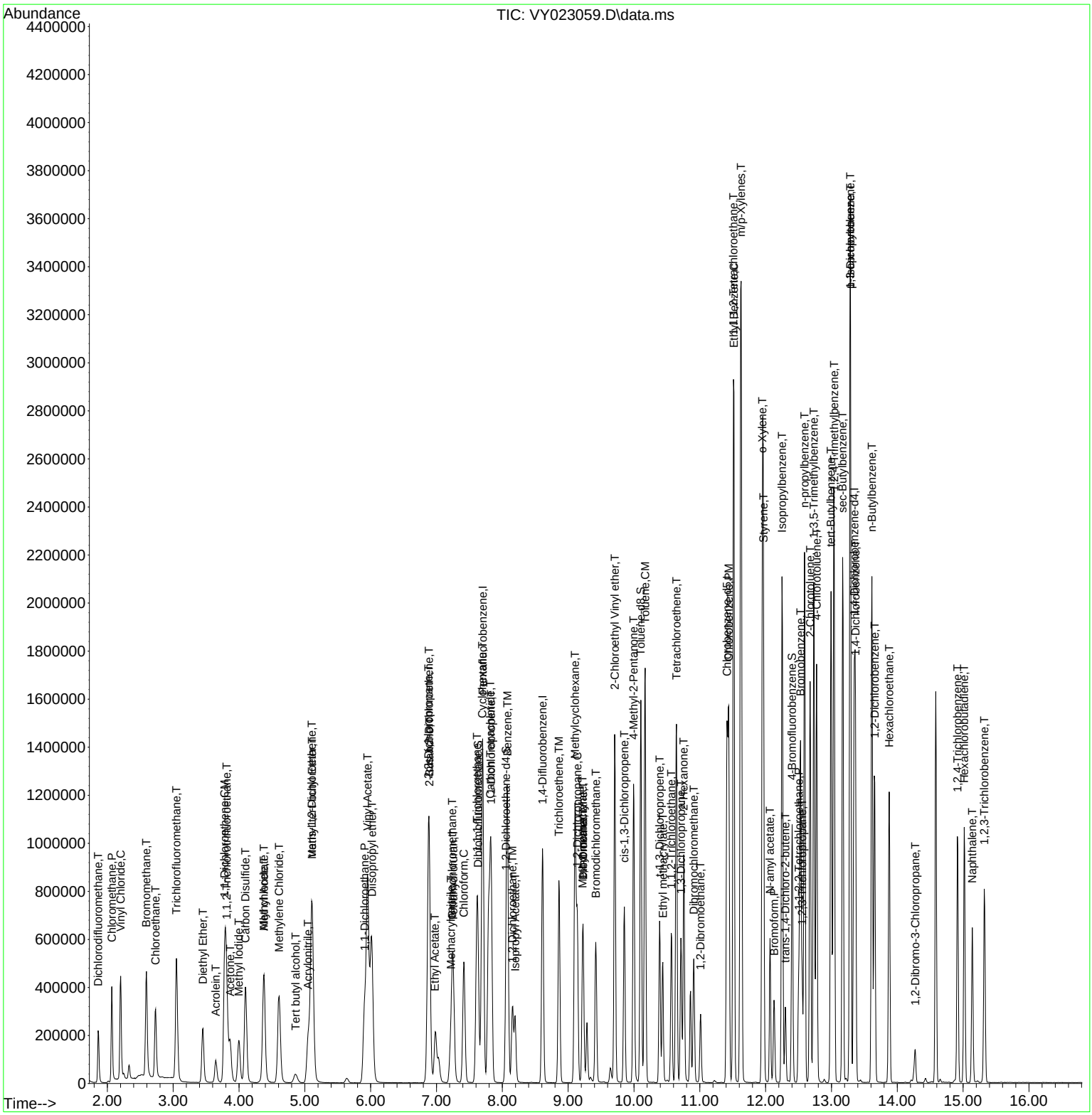
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023059.D
Acq On : 13 Aug 2025 09:37
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

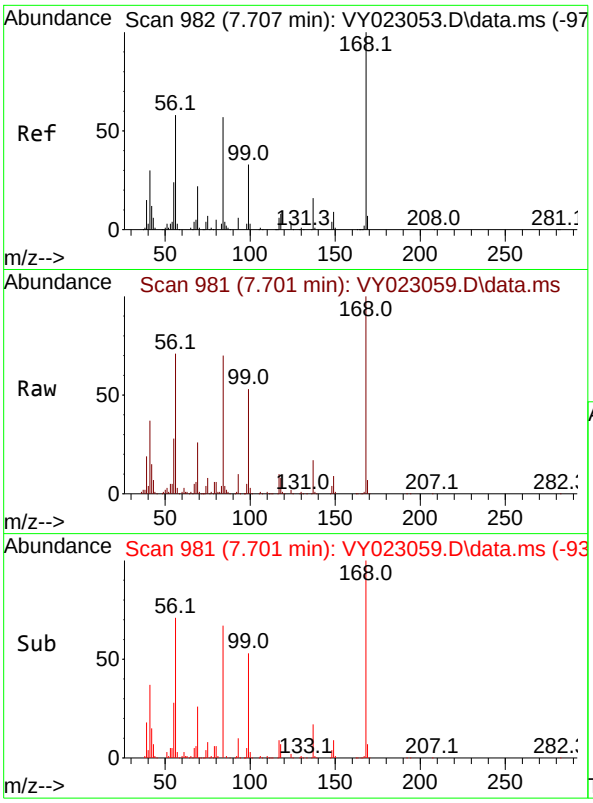
Quant Time: Aug 14 01:19:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

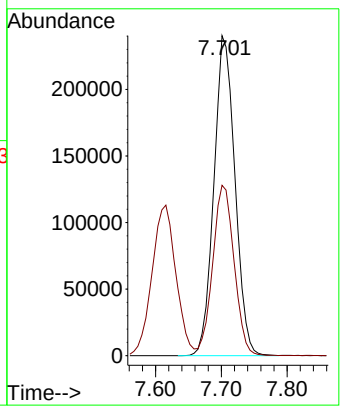





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:168 Resp: 53581

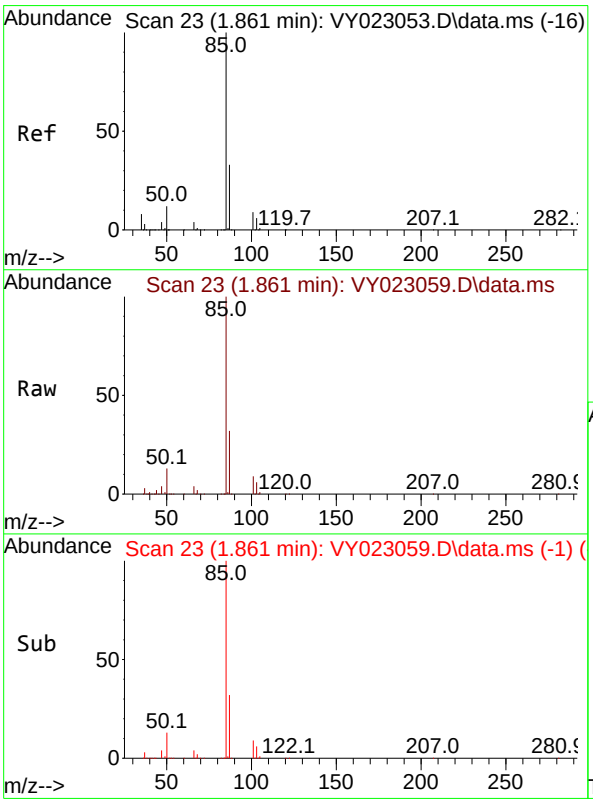
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 53.2 | 42.8 | 64.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

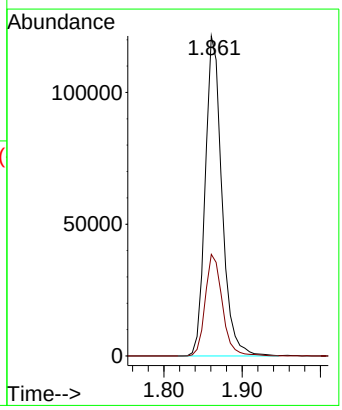
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

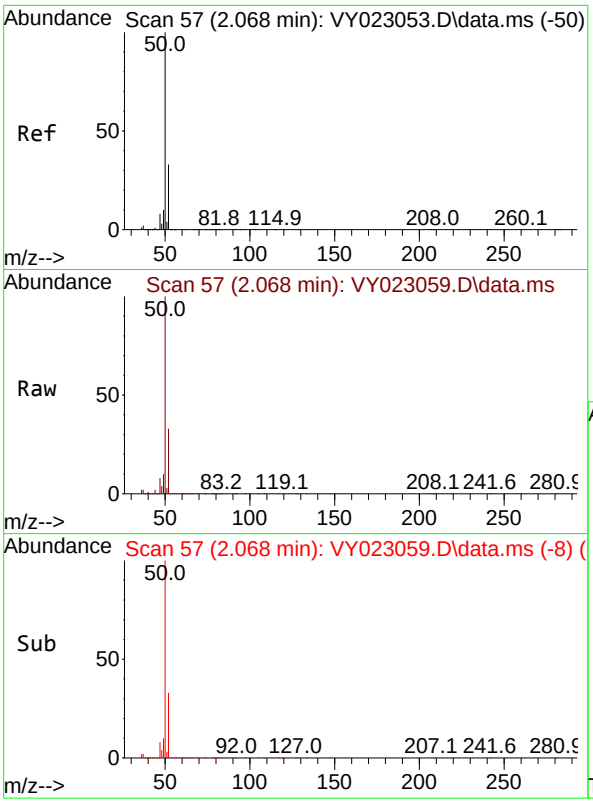



#2
Dichlorodifluoromethane
Concen: 41.006 ug/l
RT: 1.861 min Scan# 23
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 85 Resp: 179347

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.7 | 16.6 | 49.8 |

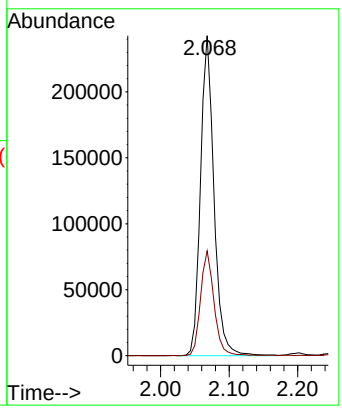





#3
Chloromethane
Concen: 46.863 ug/l
RT: 2.068 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 50 Resp: 33197

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.8 | 26.7 | 40.1 |




**Instrument :**
MSVOA_Y
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VSTDCCC050

**Manual Integrations**
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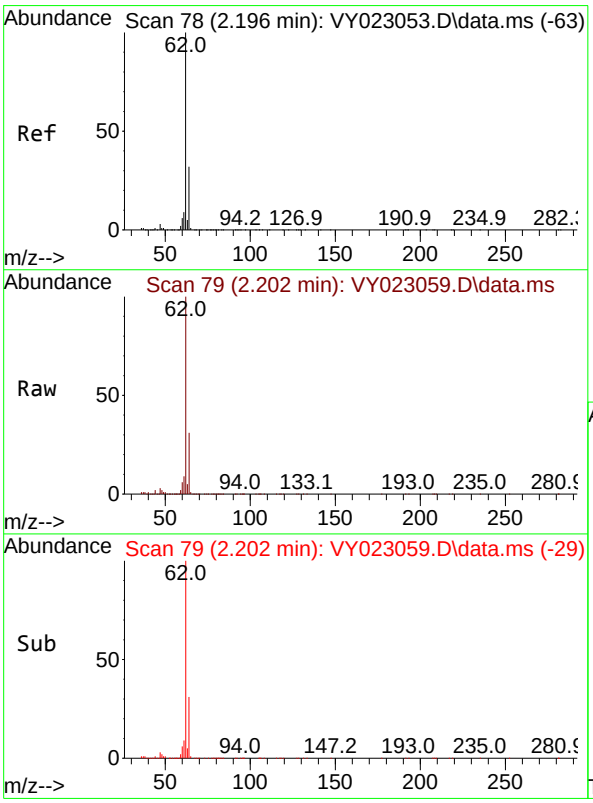
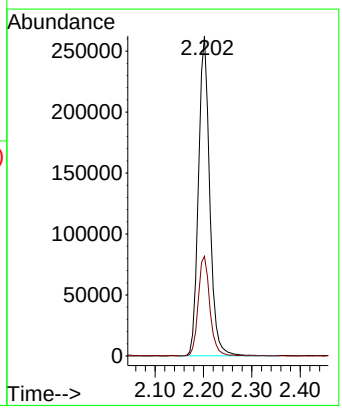
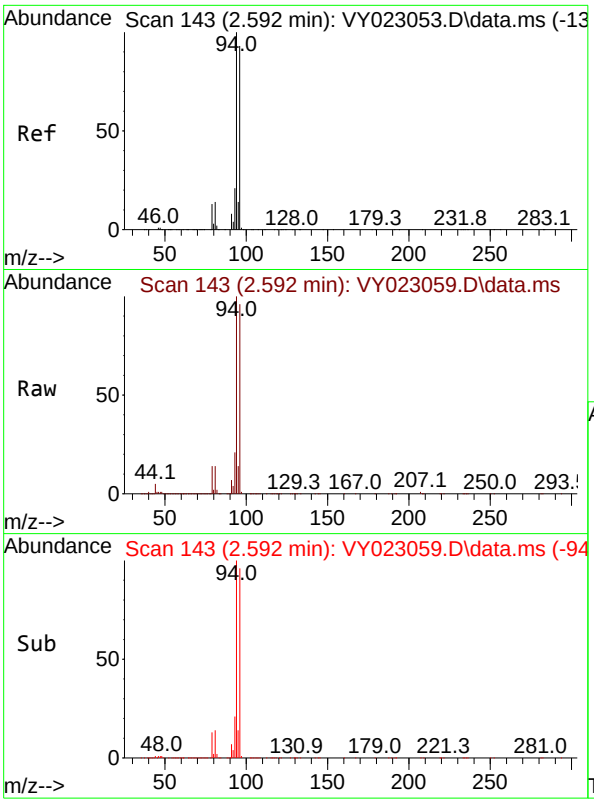



#4
Vinyl Chloride
Concen: 48.195 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 62 Resp: 422026

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.2 | 25.4 | 38.0 |






#5
Bromomethane
Concen: 47.148 ug/l
RT: 2.592 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 94 Resp: 30833

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 95.8 | 74.6 | 112.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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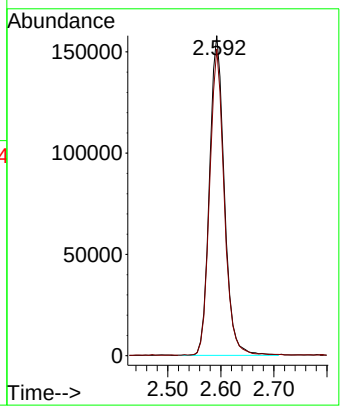
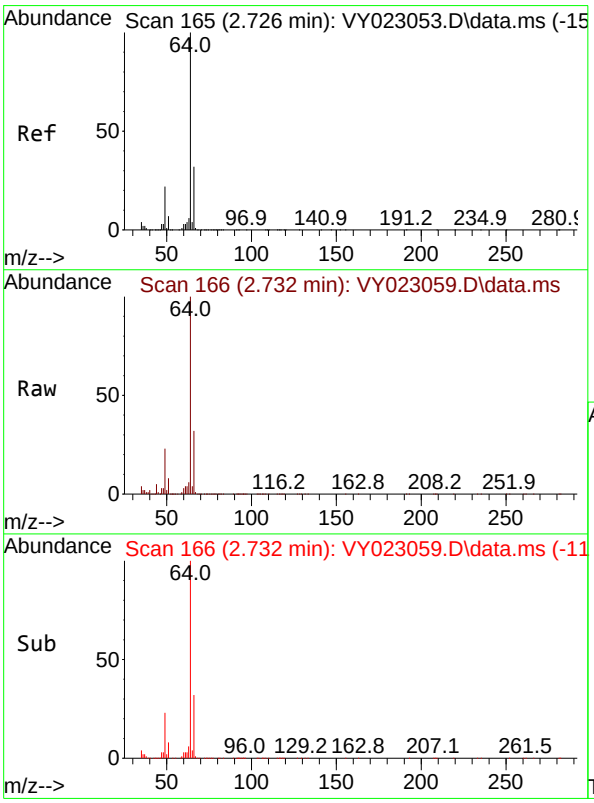
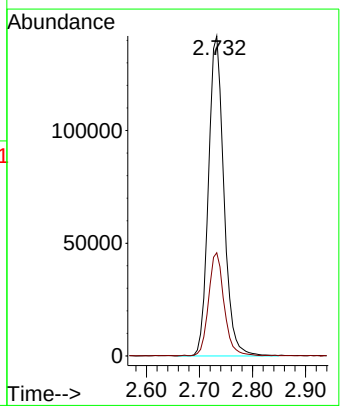


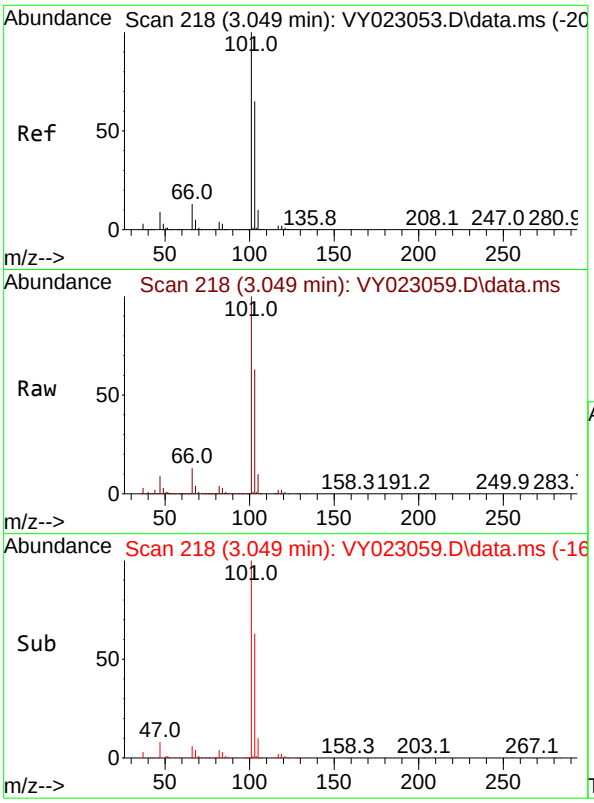




#6
Chloroethane
Concen: 49.279 ug/l
RT: 2.732 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 64 Resp: 286888

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.2 | 25.8 | 38.6 |






#7
Trichlorofluoromethane
Concen: 47.512 ug/l
RT: 3.049 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:101 Resp: 50589

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.3 | 51.9 | 77.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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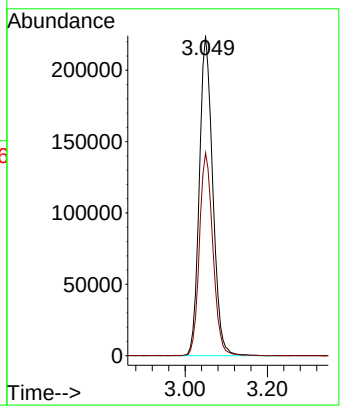
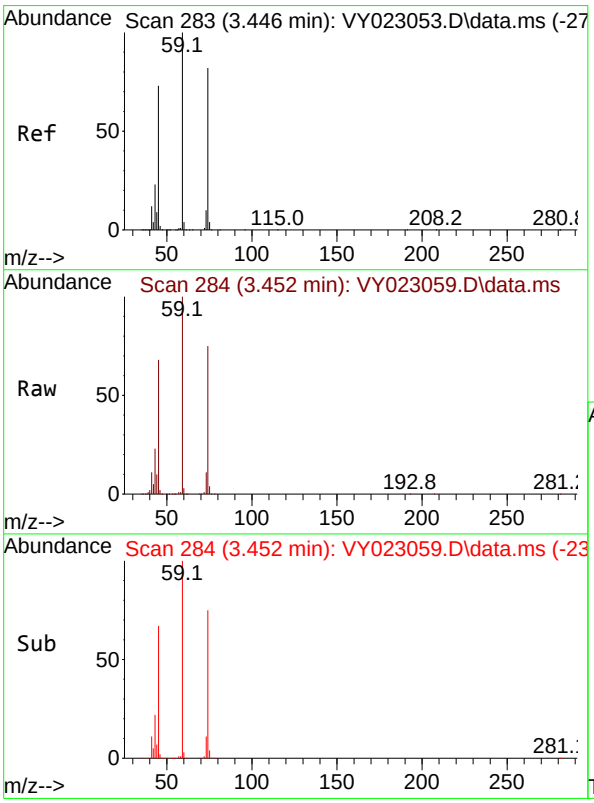
Supervised By :Semsettin Yesilyurt 08/19/2025

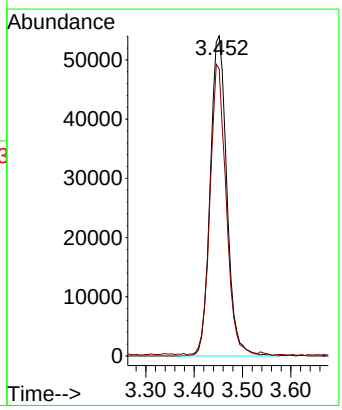


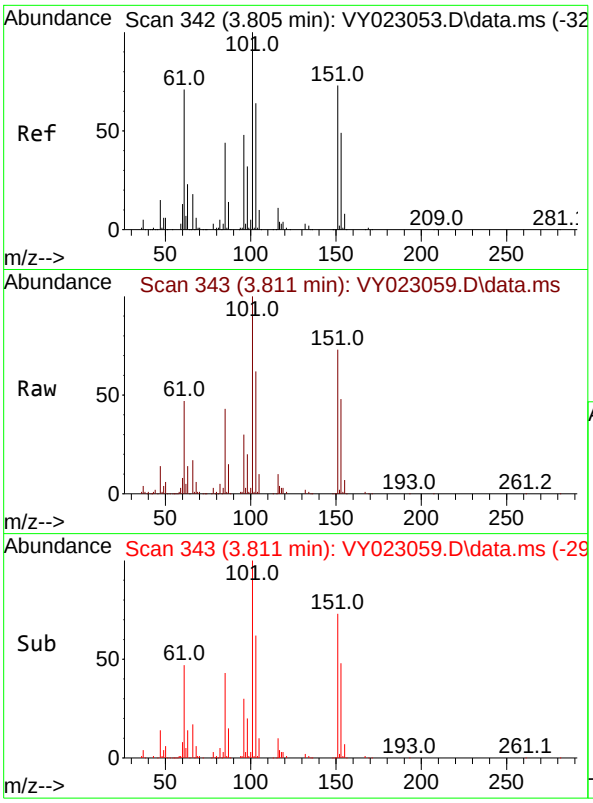




#8
Diethyl Ether
Concen: 45.547 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 74 Resp: 128306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 88.1 | 44.4 | 133.2 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.444 ug/l
RT: 3.811 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:101 Resp: 24922

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 45.9 | 36.3 | 54.5 |
| 151 | 77.3 | 61.5 | 92.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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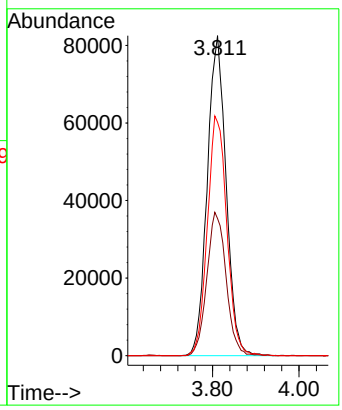
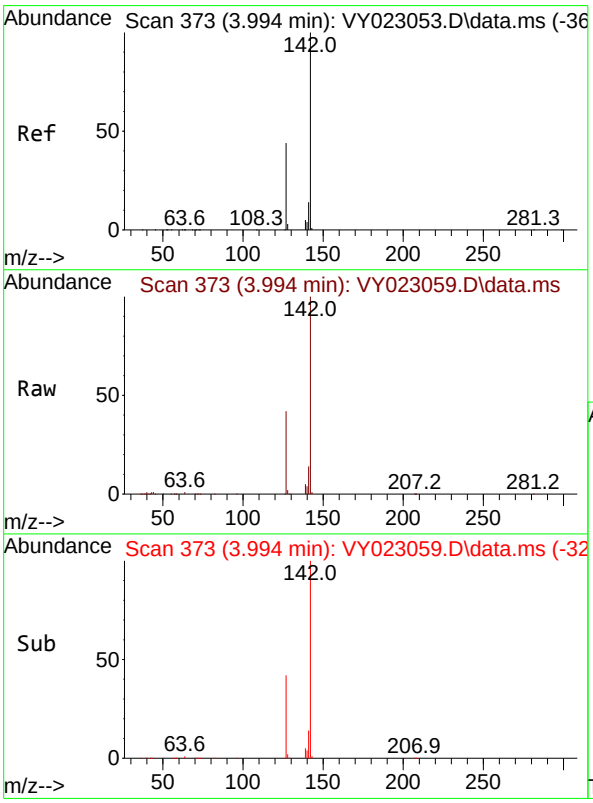
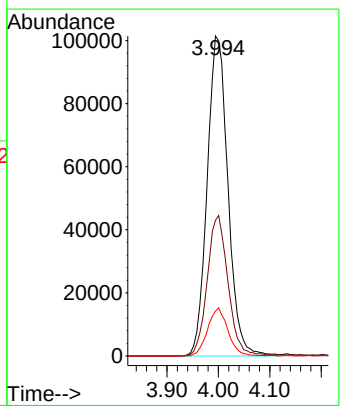


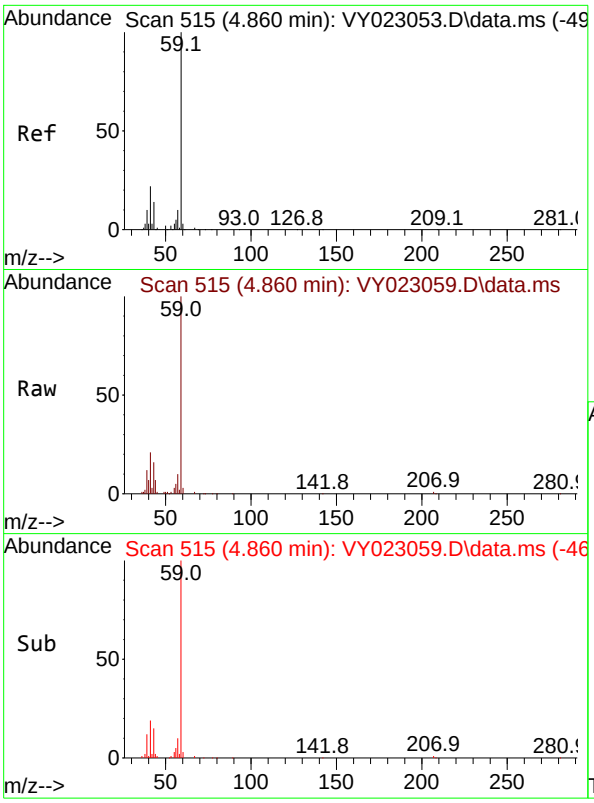




#10
Methyl Iodide
Concen: 50.312 ug/l
RT: 3.994 min Scan# 373
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:142 Resp: 285188

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 43.9 | 34.9 | 52.3 |
| 141 | 14.7 | 11.3 | 16.9 |






#11
Tert butyl alcohol
Concen: 209.916 ug/l
RT: 4.860 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 59 Resp: 7345

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.7 | 8.6 | 13.0 |

**Instrument :**
MSVOA_Y
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VSTDCCC050

**Manual Integrations**
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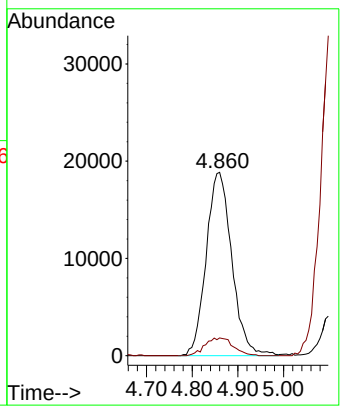
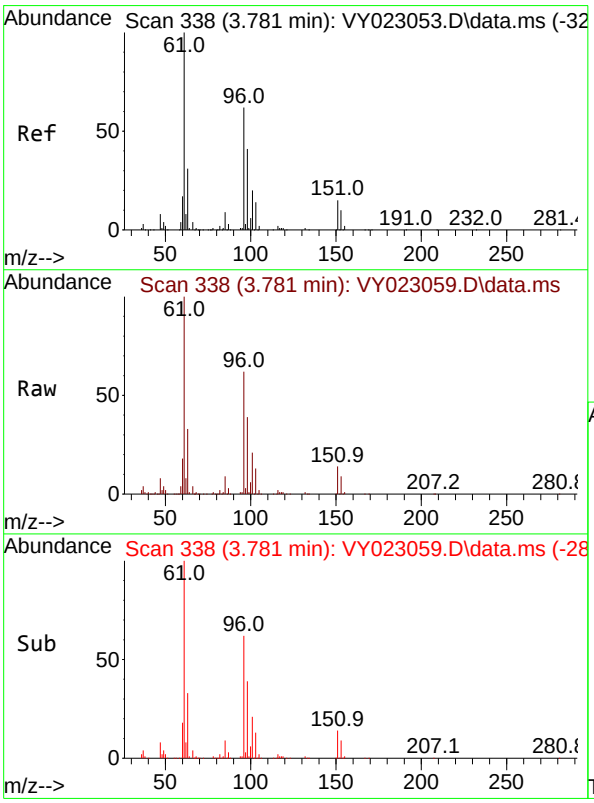
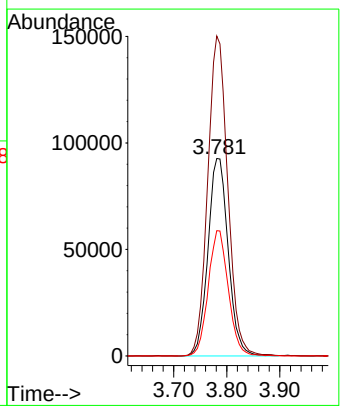


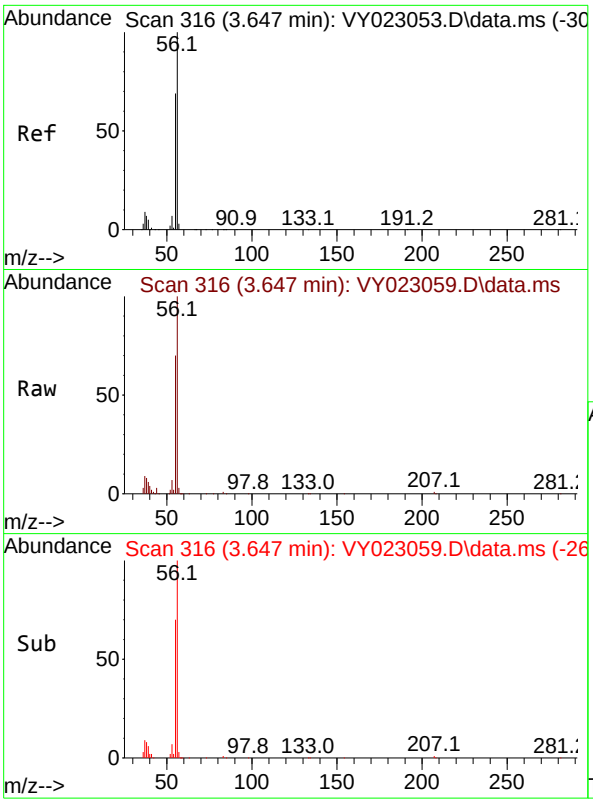




#12
1,1-Dichloroethene
Concen: 47.613 ug/l
RT: 3.781 min Scan# 338
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 96 Resp: 245840

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 162.1 | 129.4 | 194.2 |
| 98 | 63.4 | 52.8 | 79.2 |

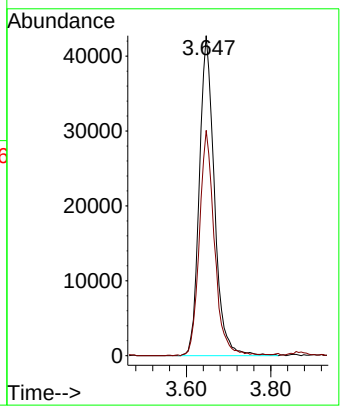





#13
Acrolein
Concen: 207.313 ug/l
RT: 3.647 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 56 Resp: 10623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 70.6 | 55.2 | 82.8 |




**Instrument :**
MSVOA_Y
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VSTDCCC050

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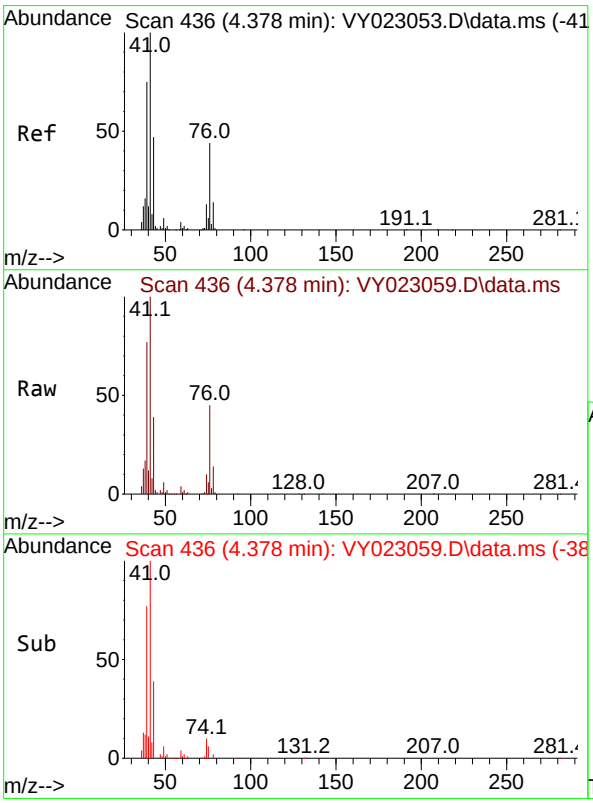
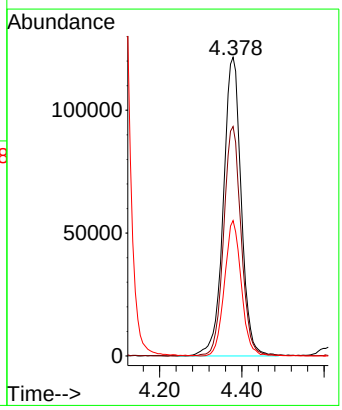
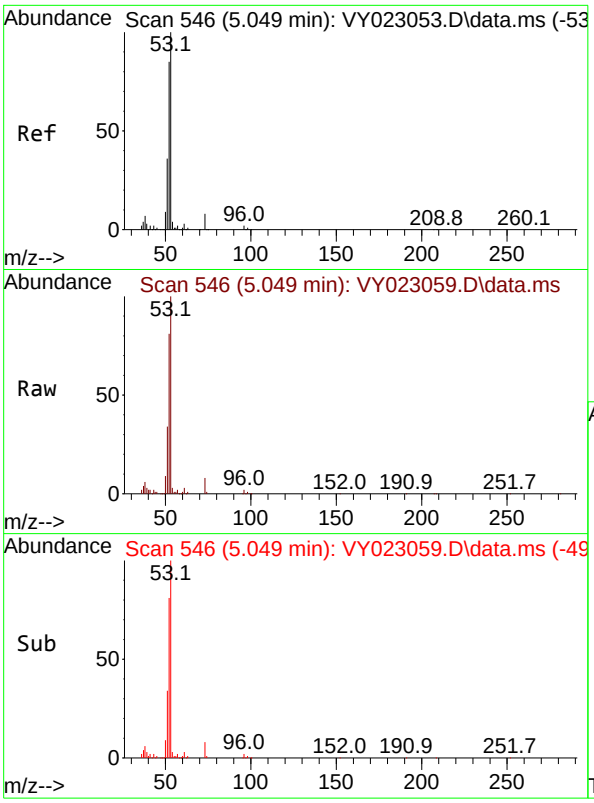



#14
Allyl chloride
Concen: 48.395 ug/l
RT: 4.378 min Scan# 436
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 41 Resp: 367684

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 75.0 | 59.8 | 89.6 |
| 76 | 42.6 | 33.7 | 50.5 |

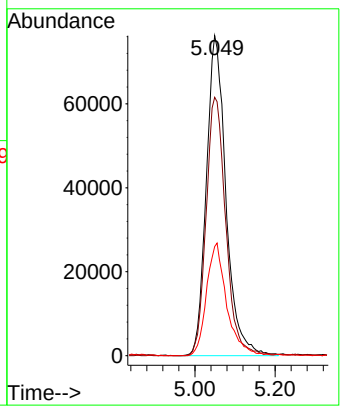





#15
Acrylonitrile
Concen: 226.059 ug/l
RT: 5.049 min Scan# 54
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 53 Resp: 25889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 80.9 | 65.3 | 97.9 |
| 51 | 36.3 | 29.5 | 44.3 |




**Instrument :**
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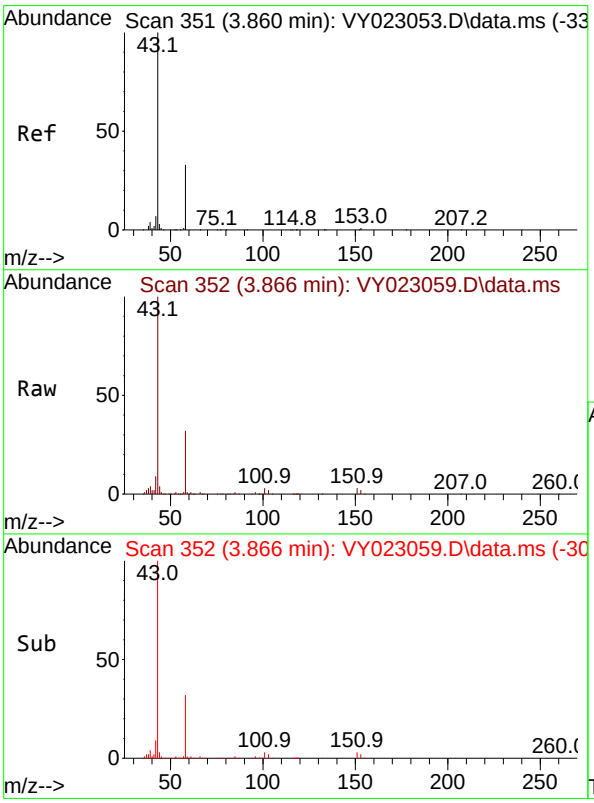
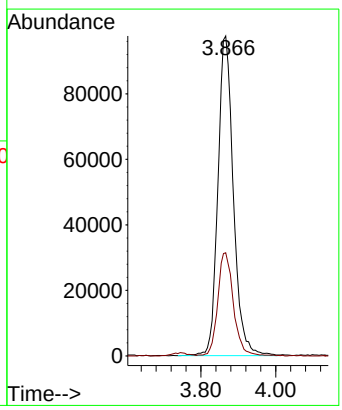
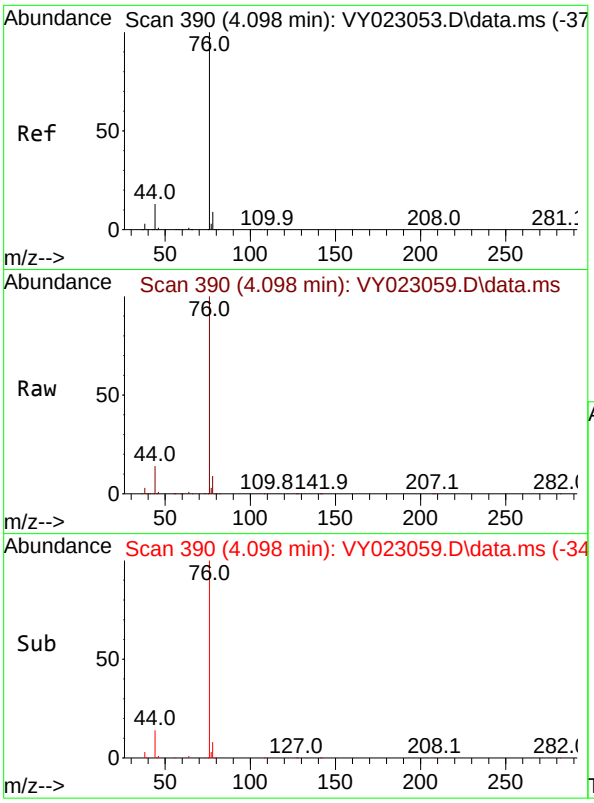



#16
Acetone
Concen: 253.265 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 43 Resp: 280197

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.1 | 27.1 | 40.7 |

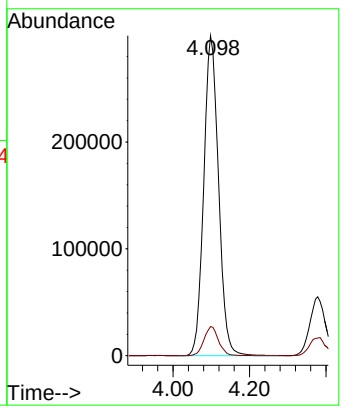





#17
Carbon Disulfide
Concen: 47.654 ug/l
RT: 4.098 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 76 Resp: 80229

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.1 | 7.4 | 11.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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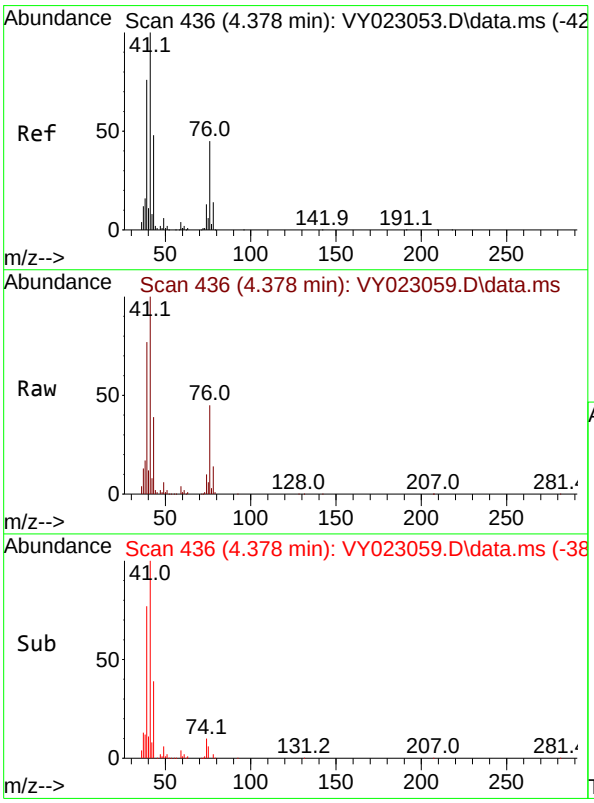
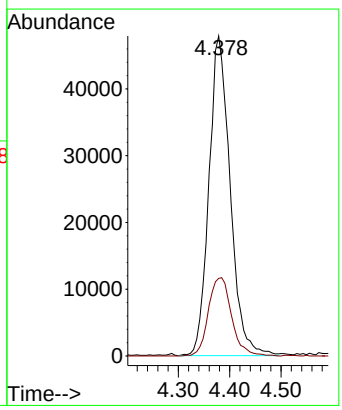
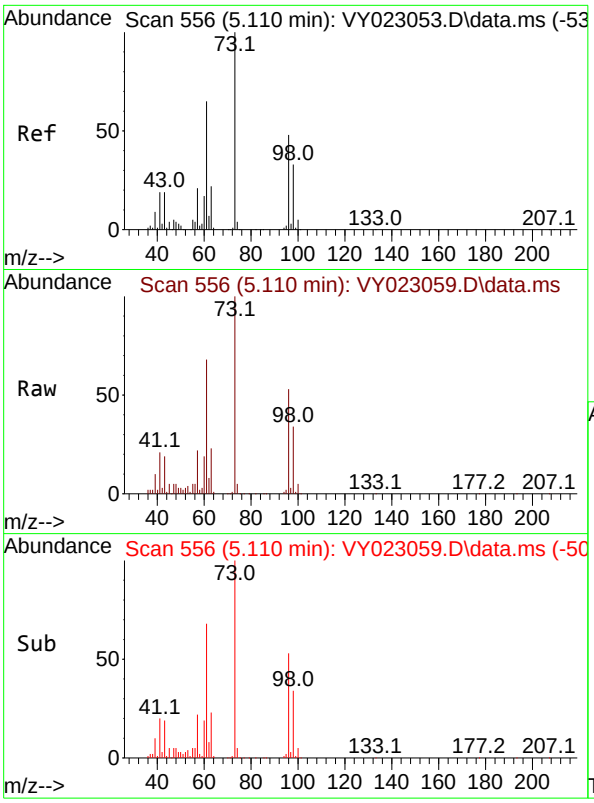



#18
Methyl Acetate
Concen: 41.723 ug/l
RT: 4.378 min Scan# 436
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 43 Resp: 137365

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 26.7 | 21.2 | 31.8 |

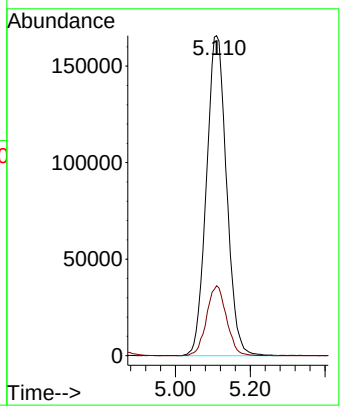





#19
Methyl tert-butyl Ether
Concen: 46.387 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 73 Resp: 62065

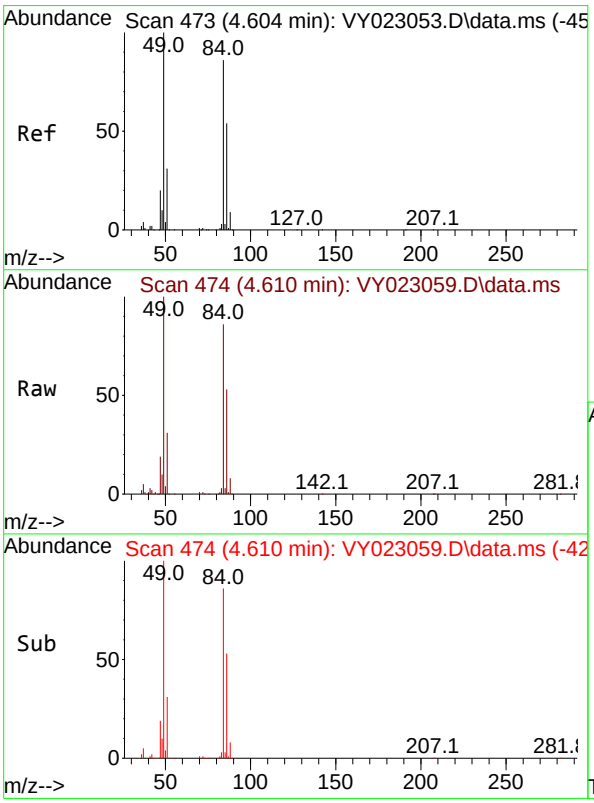
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.9 | 17.1 | 25.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

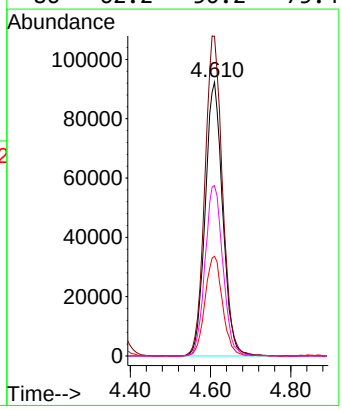
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

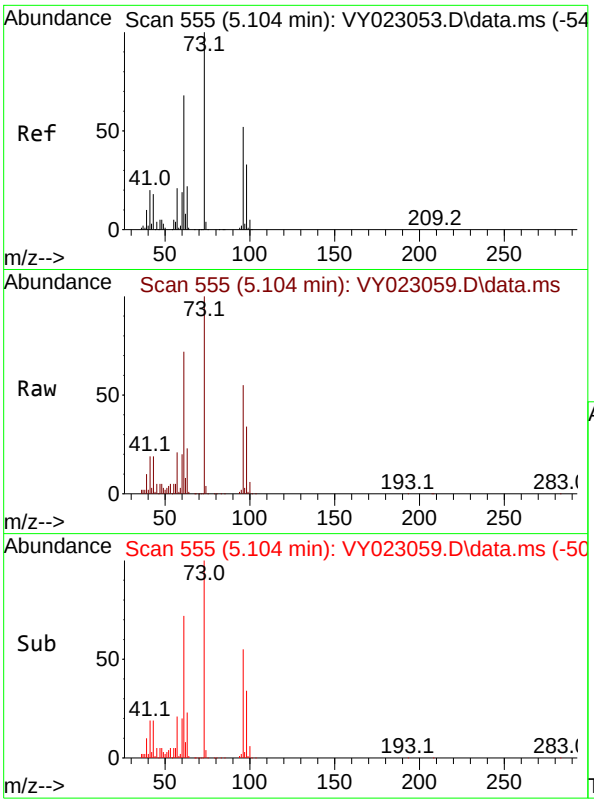



#20
Methylene Chloride
Concen: 48.260 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 84 Resp: 277983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 116.8 | 93.0 | 139.6 |
| 51 | 36.4 | 29.0 | 43.4 |
| 86 | 62.2 | 50.2 | 75.4 |

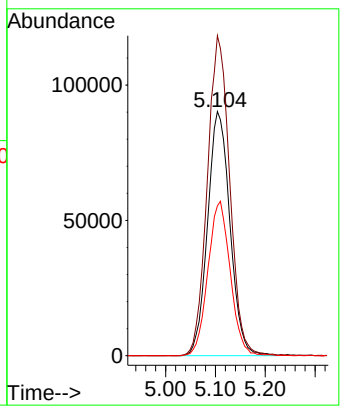





#21
trans-1,2-Dichloroethene
Concen: 48.558 ug/l
RT: 5.104 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 96 Resp: 28175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 131.1 | 104.8 | 157.2 |
| 98 | 61.4 | 50.1 | 75.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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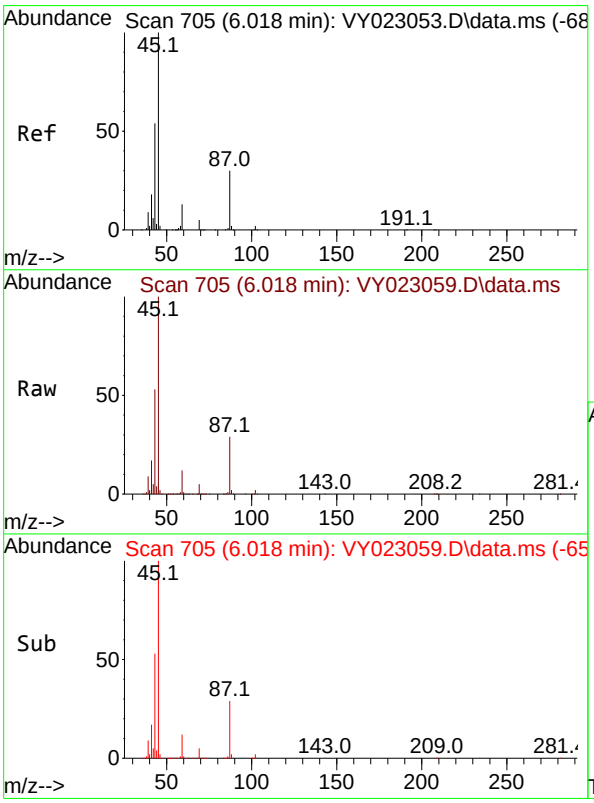
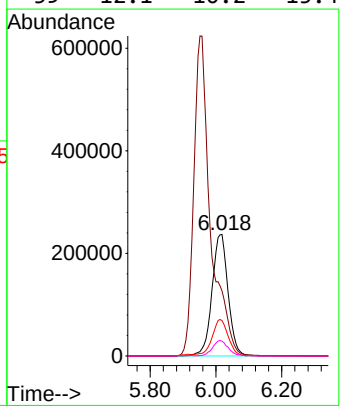
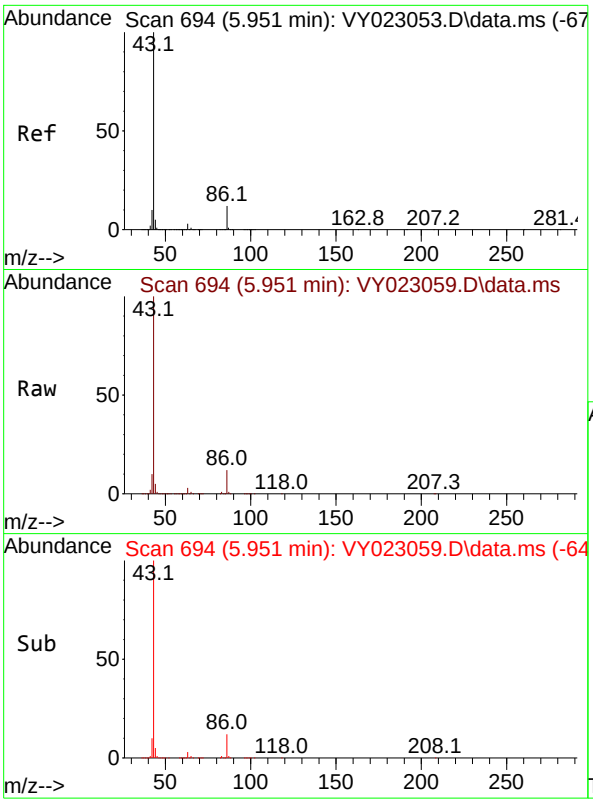



#22
Diisopropyl ether
Concen: 48.705 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 45 Resp: 804095

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 53.2 | 43.4 | 65.0 |
| 87 | 29.2 | 24.4 | 36.6 |
| 59 | 12.1 | 10.2 | 15.4 |






#23
Vinyl Acetate
Concen: 241.571 ug/l
RT: 5.951 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 43 Resp: 220528

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.8 | 9.6 | 14.4 |

**Instrument :**
MSVOA_Y
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VSTDCCC050

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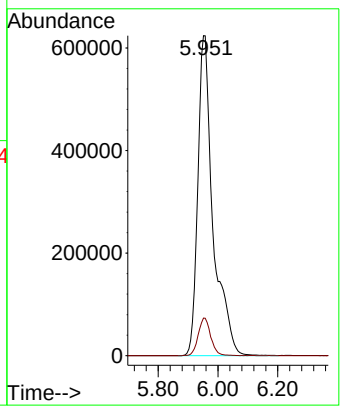
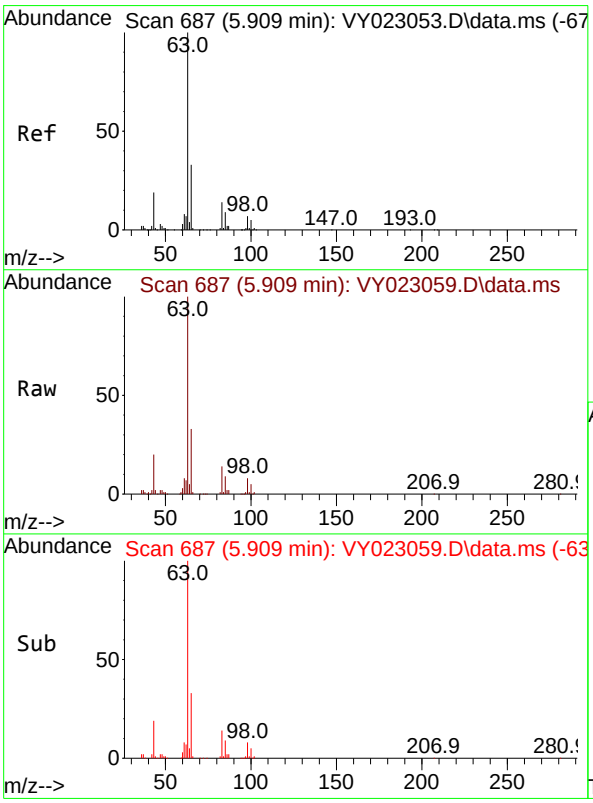
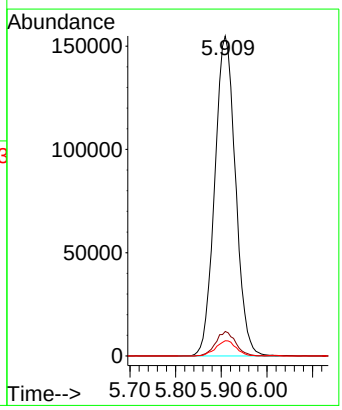


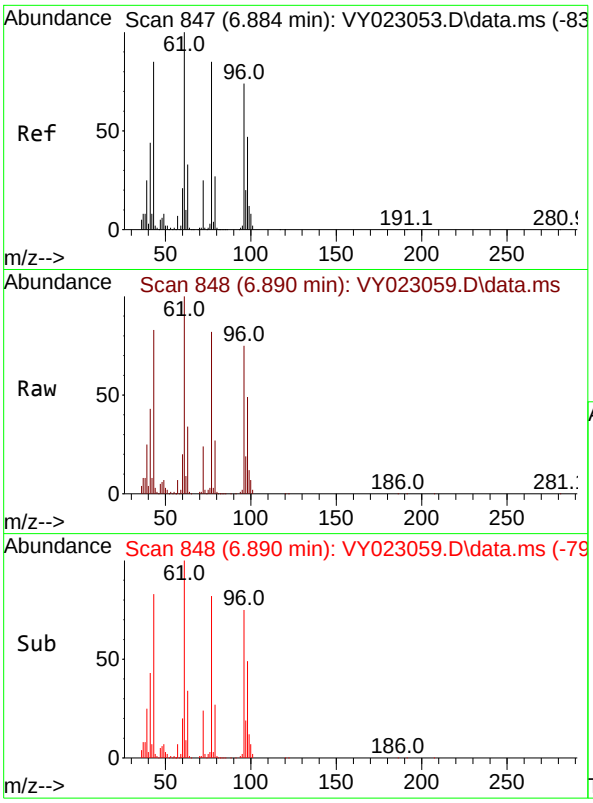




#24
1,1-Dichloroethane
Concen: 48.480 ug/l
RT: 5.909 min Scan# 687
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 63 Resp: 489342

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.7 | 3.5 | 10.6 |
| 100 | 4.8 | 2.4 | 7.1 |






#25
2-Butanone
Concen: 229.361 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 43 Resp: 34511

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 29.0 | 23.5 | 35.3 |

**Instrument :**
MSVOA_Y
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VSTDCCC050

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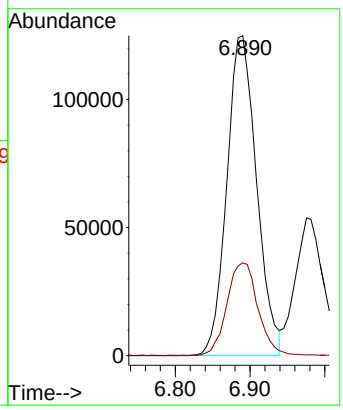
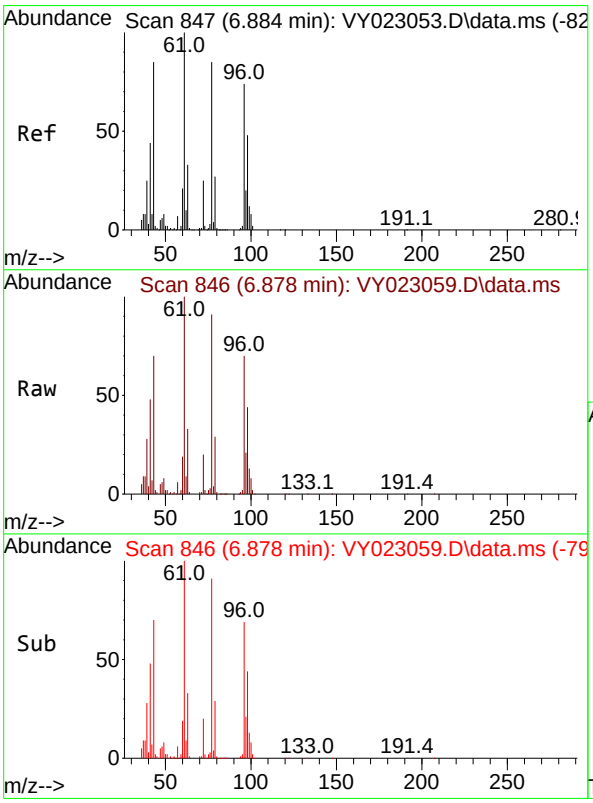
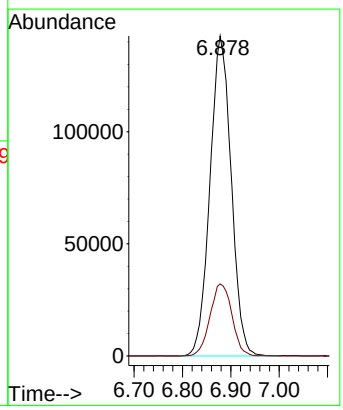


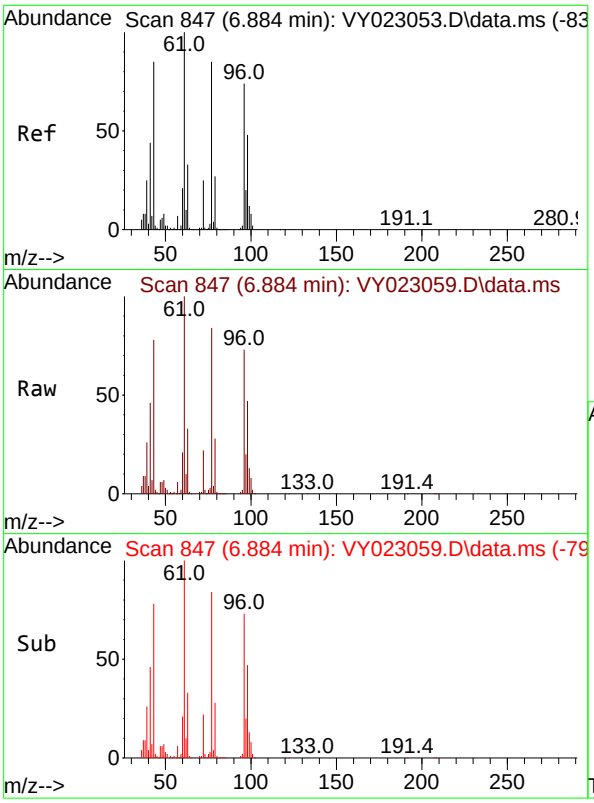




#26
2,2-Dichloropropane
Concen: 49.978 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 77 Resp: 435291

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.2 | 11.6 | 34.8 |






#27
cis-1,2-Dichloroethene
Concen: 47.671 ug/l
RT: 6.884 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 96 Resp: 31977

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 141.4 | 0.0 | 278.6 |
| 98 | 64.4 | 0.0 | 130.4 |

**Instrument :**
MSVOA_Y
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VSTDCCC050

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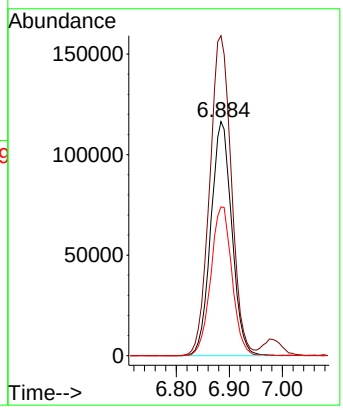
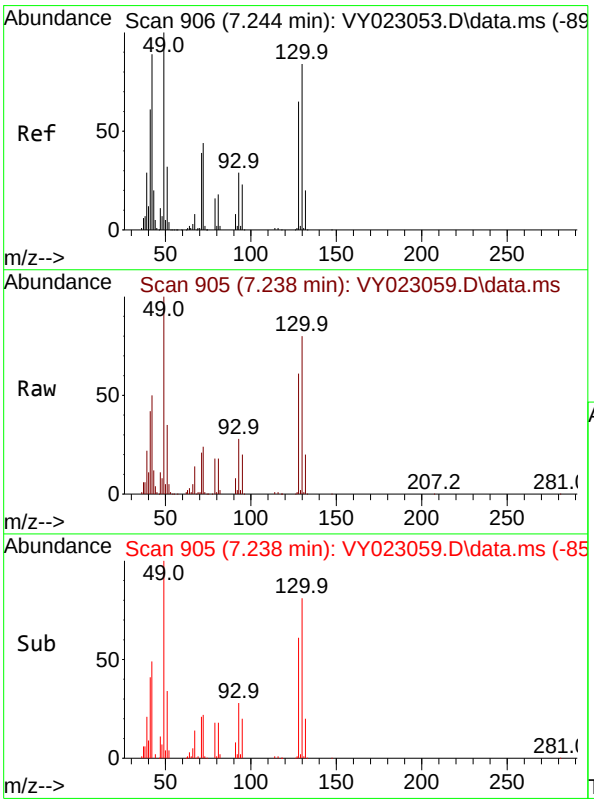
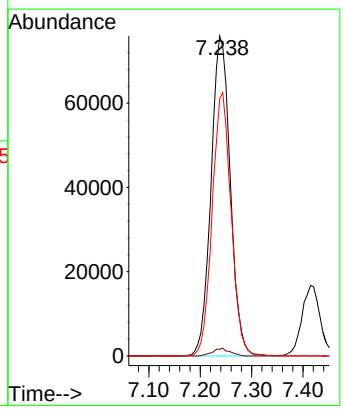


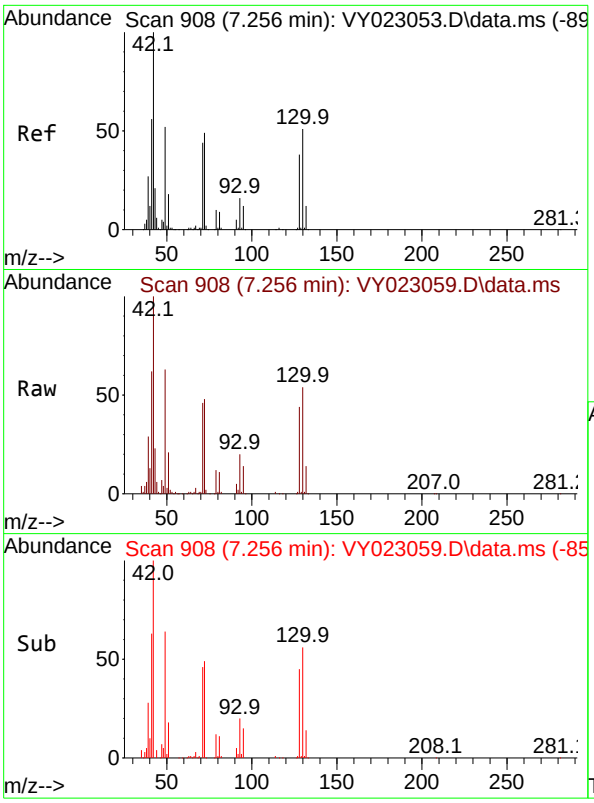




#28
Bromochloromethane
Concen: 49.222 ug/l
RT: 7.238 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 49 Resp: 197112

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.2 | 0.0 | 4.2 |
| 130 | 80.9 | 66.4 | 99.6 |






#29
Tetrahydrofuran
Concen: 224.929 ug/l
RT: 7.256 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 42 Resp: 20978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 48.0 | 39.4 | 59.2 |
| 71 | 45.1 | 36.5 | 54.7 |

**Instrument :**
MSVOA_Y
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VSTDCCC050

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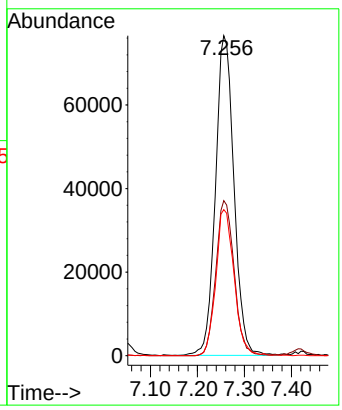
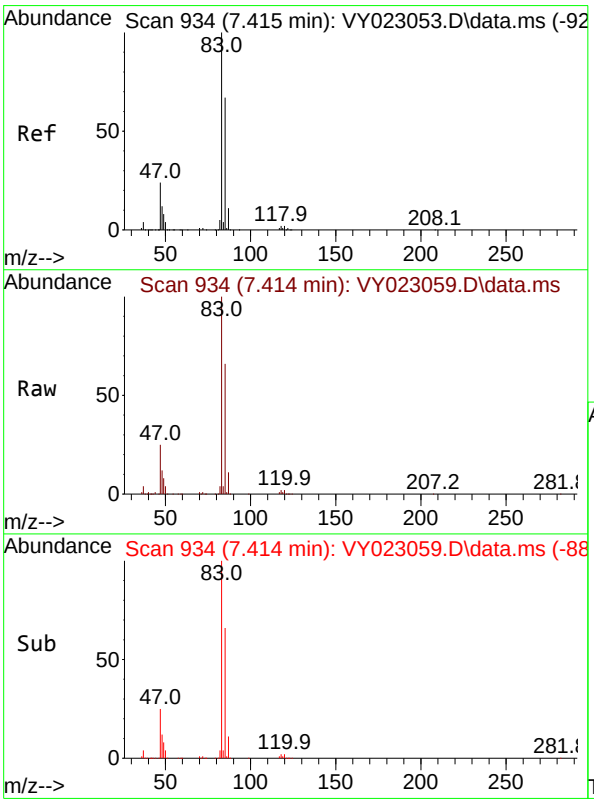
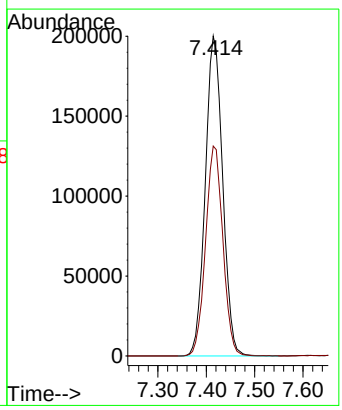


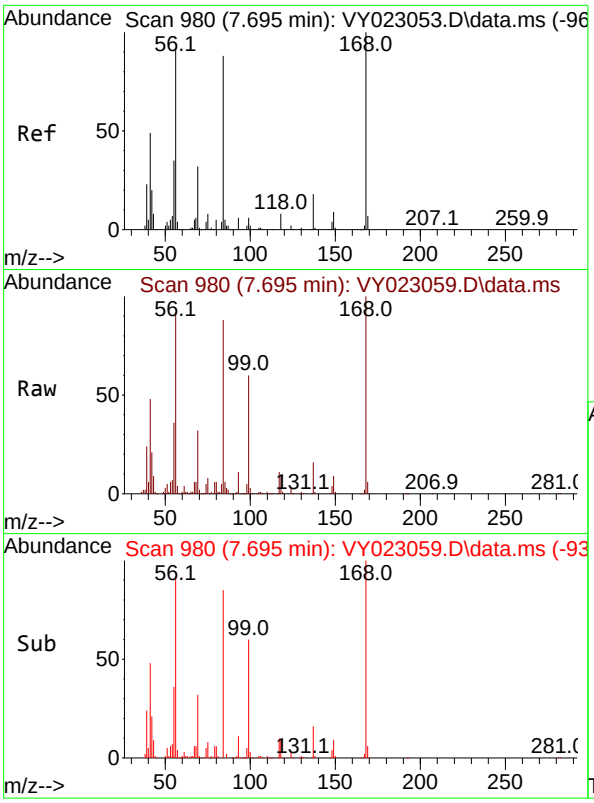




#30
Chloroform
Concen: 47.994 ug/l
RT: 7.414 min Scan# 934
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 83 Resp: 499613

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.6 | 53.8 | 80.8 |

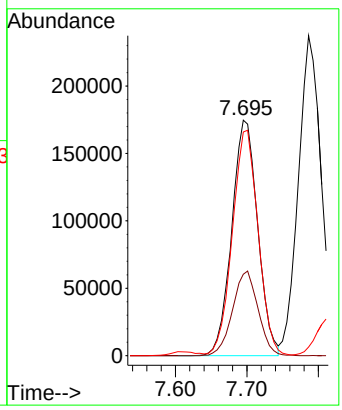





#31
Cyclohexane
Concen: 46.262 ug/l
RT: 7.695 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 56 Resp: 44004

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 34.6 | 28.2 | 42.2 |
| 84 | 93.2 | 76.6 | 114.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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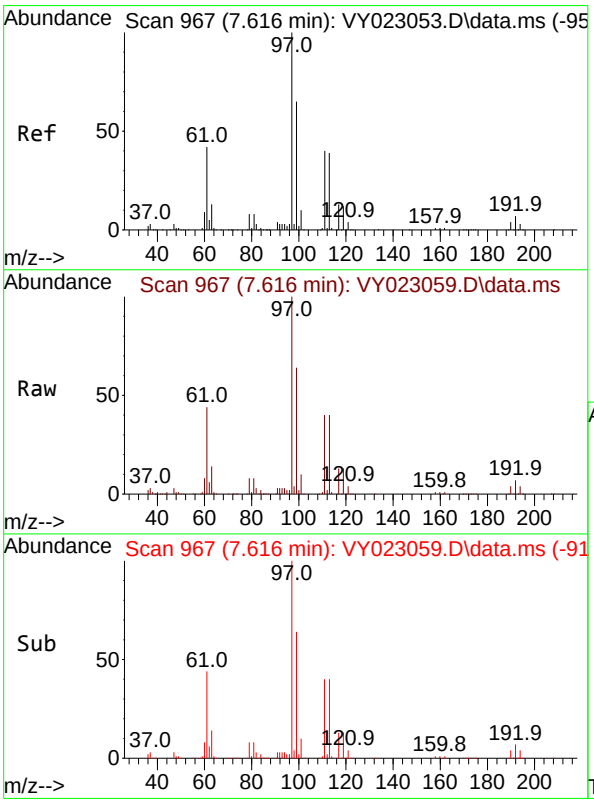
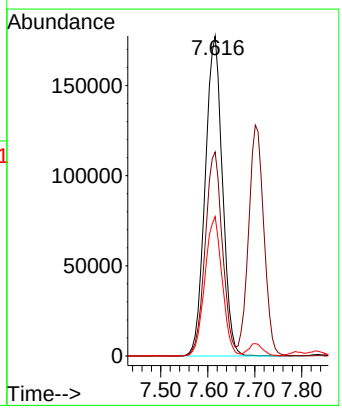
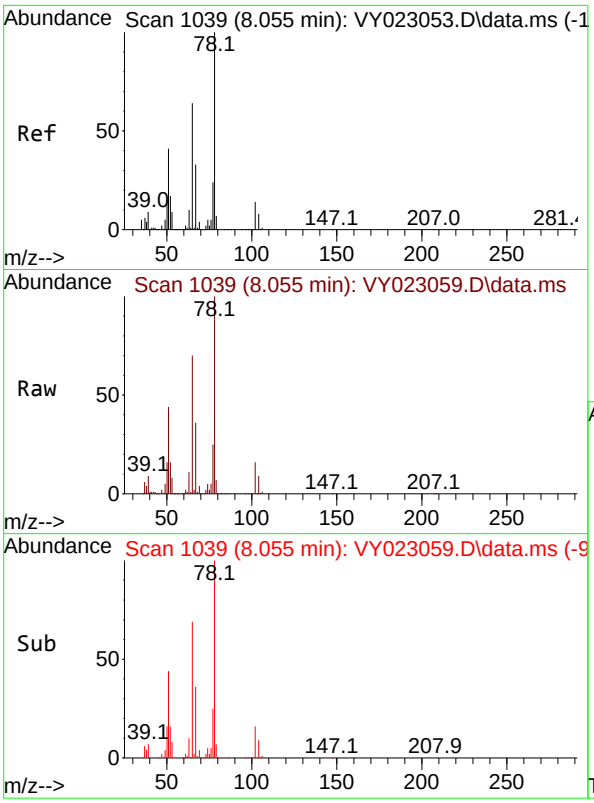



#32
1,1,1-Trichloroethane
Concen: 48.765 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 97 Resp: 450437

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.6 | 51.6 | 77.4 |
| 61 | 43.8 | 34.2 | 51.2 |

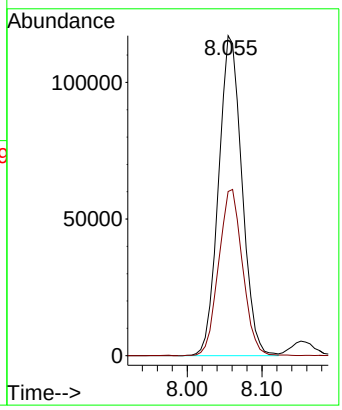





#33
1,2-Dichloroethane-d4
Concen: 49.931 ug/l
RT: 8.055 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 65 Resp: 25498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.1 | 0.0 | 106.8 |

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MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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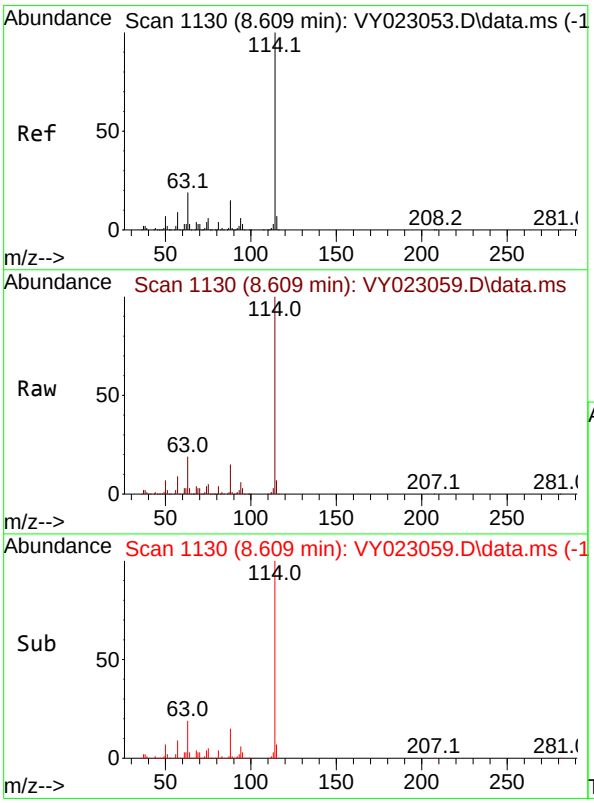
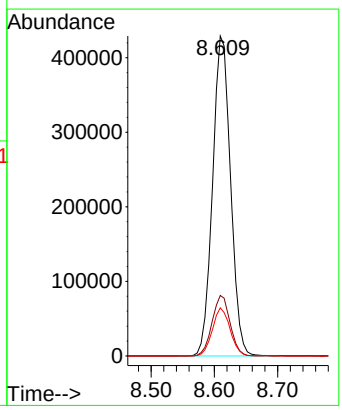
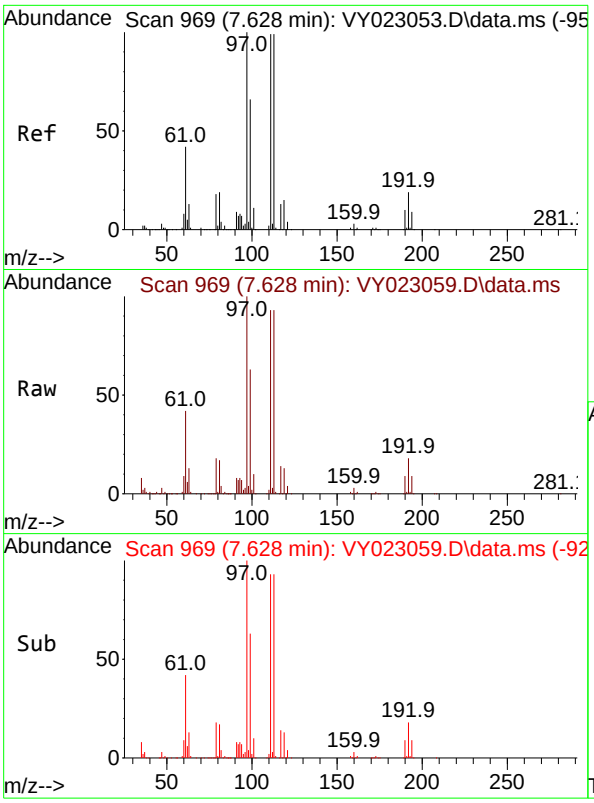



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:114 Resp: 845865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.9 | 0.0 | 38.4 |
| 88 | 15.1 | 0.0 | 30.0 |

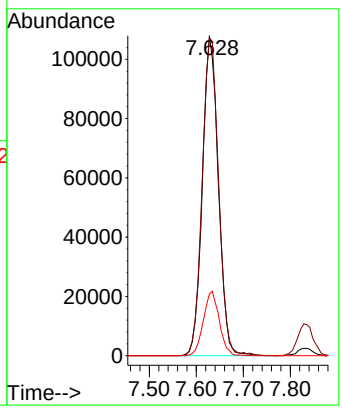





#35
Dibromofluoromethane
Concen: 50.227 ug/l
RT: 7.628 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:113 Resp: 25421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.4 | 81.1 | 121.7 |
| 192 | 20.0 | 16.2 | 24.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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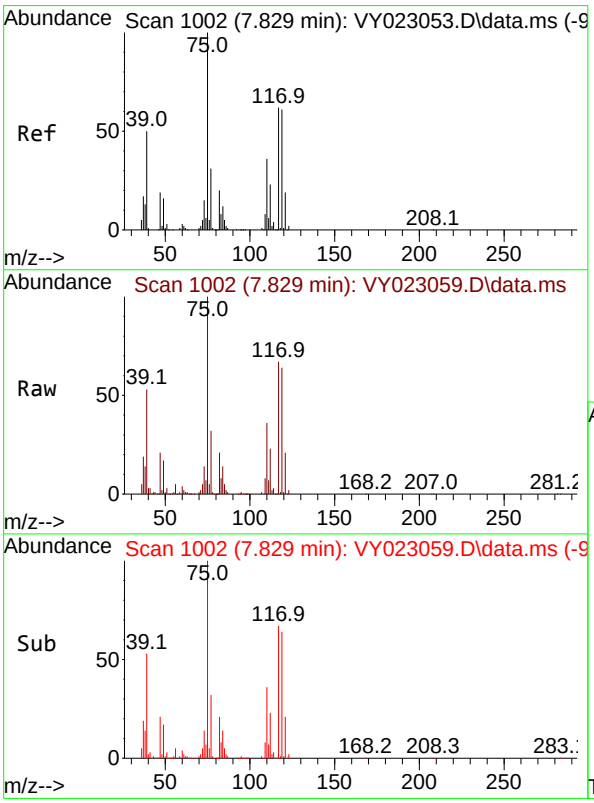
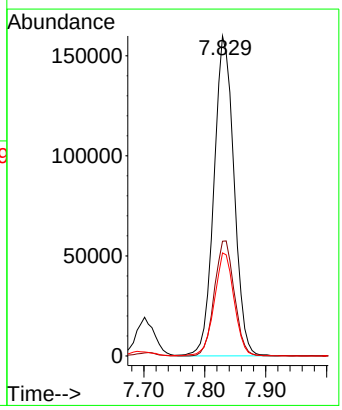
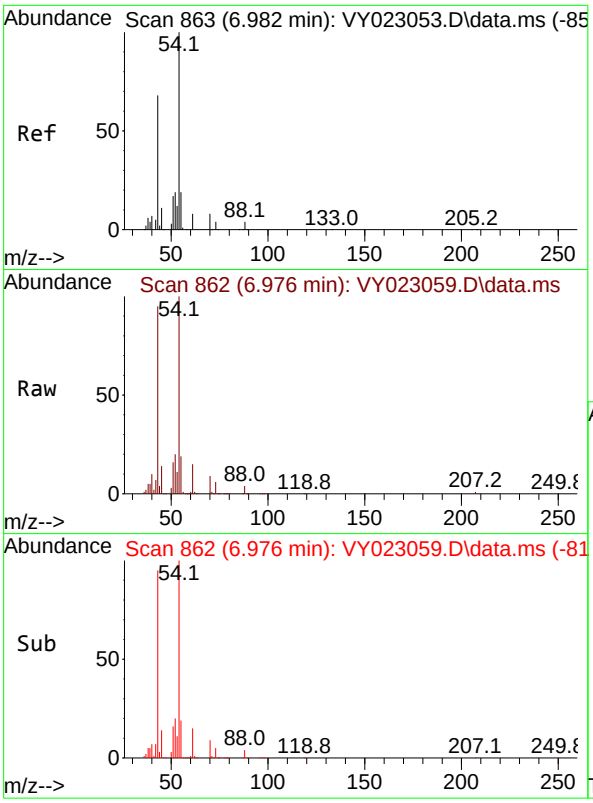



#36
1,1-Dichloropropene
Concen: 48.533 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 75 Resp: 365059

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.9 | 18.1 | 54.4 |
| 77 | 32.0 | 24.6 | 37.0 |






#37
Ethyl Acetate
Concen: 45.366 ug/l
RT: 6.976 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 43 Resp: 14334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.1 | 11.9 | 17.9 |
| 70 | 10.6 | 8.8 | 13.2 |

**Instrument :**
MSVOA_Y
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VSTDCCC050

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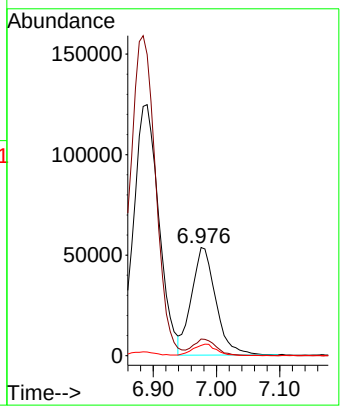
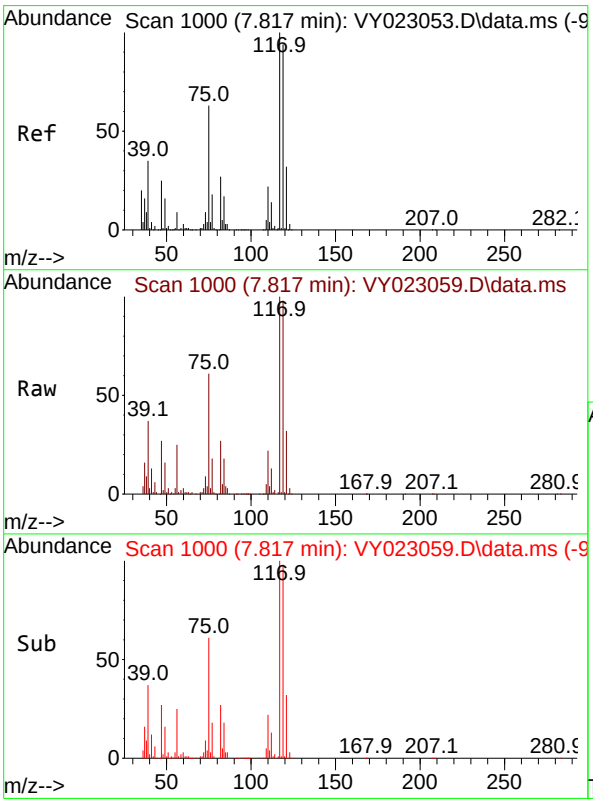
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

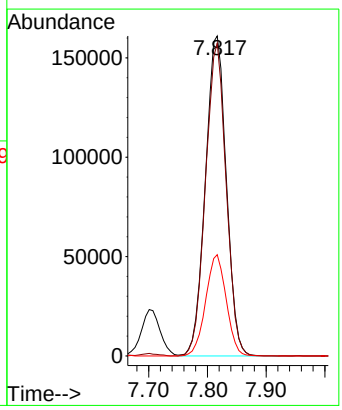


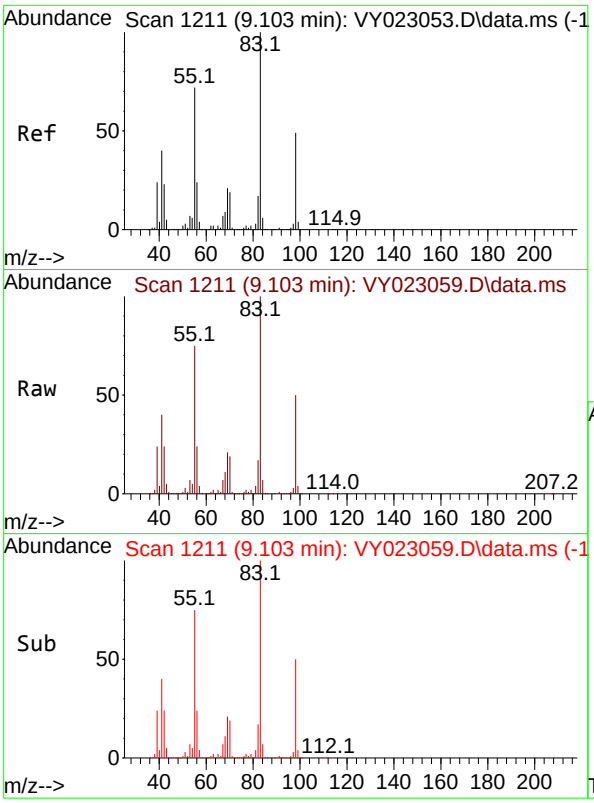




#38
Carbon Tetrachloride
Concen: 48.841 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:117 Resp: 399023

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 97.7 | 75.6 | 113.4 |
| 121 | 31.6 | 25.8 | 38.8 |






#39
Methylcyclohexane
Concen: 49.119 ug/l
RT: 9.103 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 83 Resp: 48654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 74.6 | 57.6 | 86.4 |
| 98 | 50.1 | 39.2 | 58.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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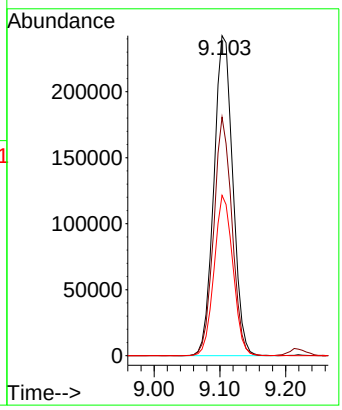
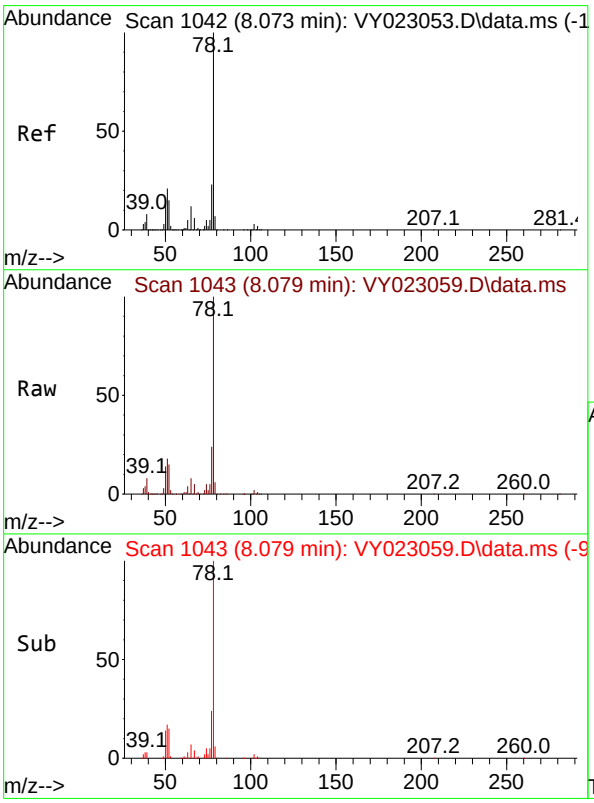
Supervised By :Semsettin Yesilyurt 08/19/2025

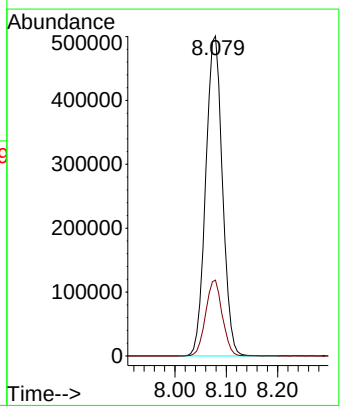


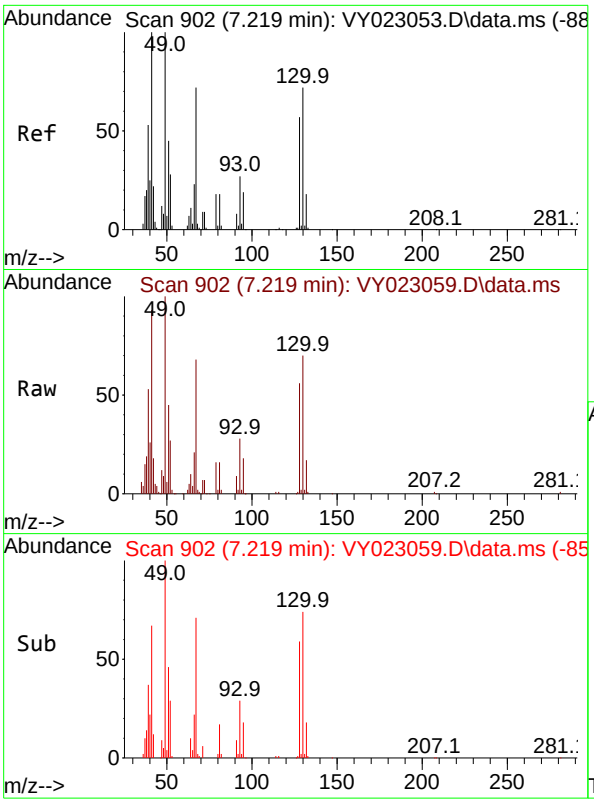




#40
Benzene
Concen: 48.666 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 78 Resp: 1128264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.7 | 18.6 | 28.0 |

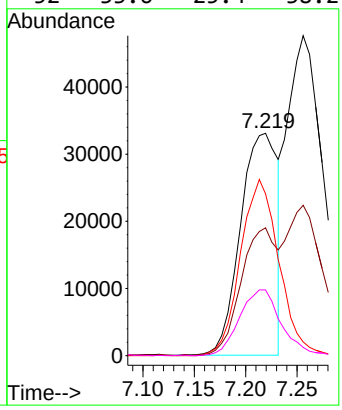





#41
Methacrylonitrile
Concen: 45.492 ug/l
RT: 7.219 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 41 Resp: 8295

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 56.1 | 43.4 | 65.2 |
| 67 | 82.9 | 63.6 | 95.4 |
| 52 | 33.6 | 25.4 | 38.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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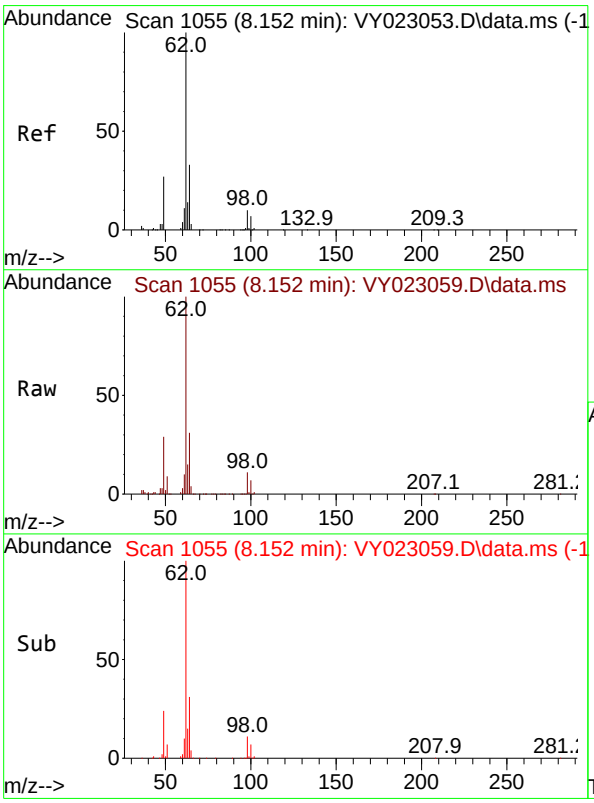
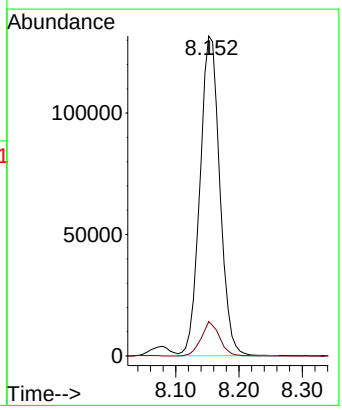
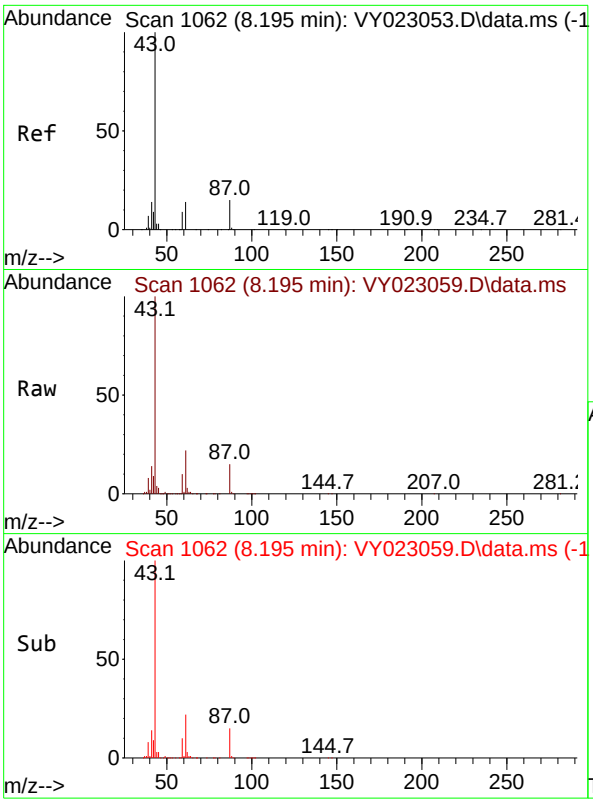



#42
1,2-Dichloroethane
Concen: 47.637 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 62 Resp: 287233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.0 | 0.0 | 20.6 |

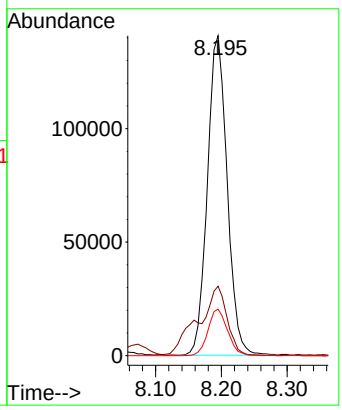





#43
Isopropyl Acetate
Concen: 46.179 ug/l
RT: 8.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 43 Resp: 29491

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 31.9 | 16.4 | 24.6# |
| 87 | 14.4 | 11.8 | 17.6 |




**Instrument :**
MSVOA_Y
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VSTDCCC050

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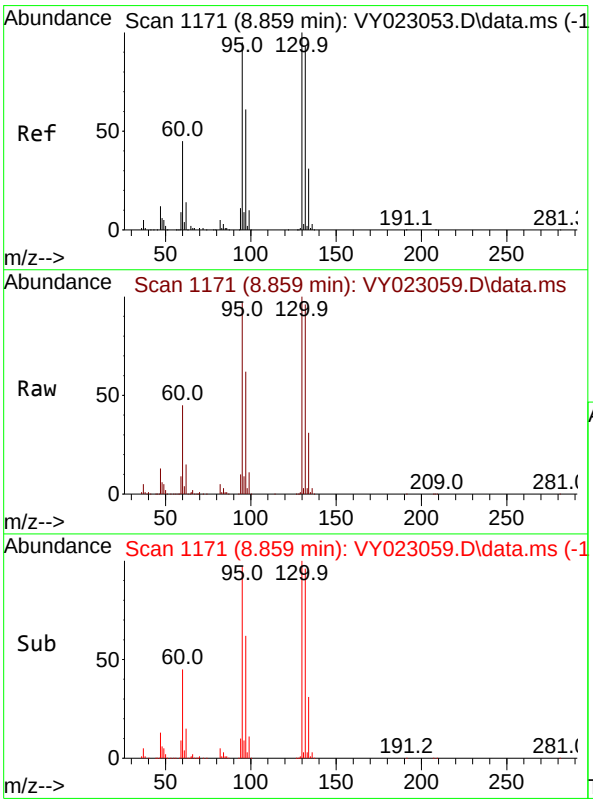
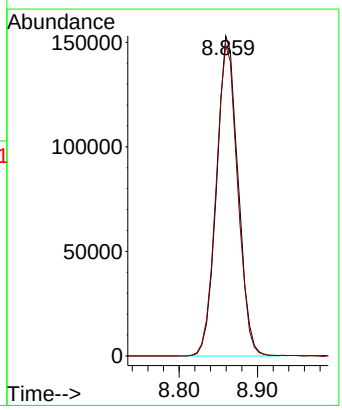
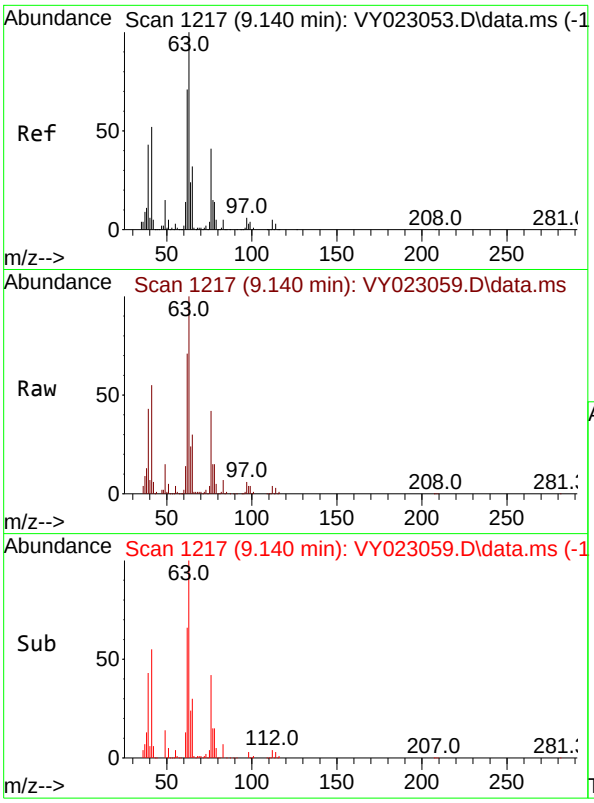



#44
Trichloroethene
Concen: 48.551 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:130 Resp: 290876

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 97.2 | 0.0 | 190.2 |

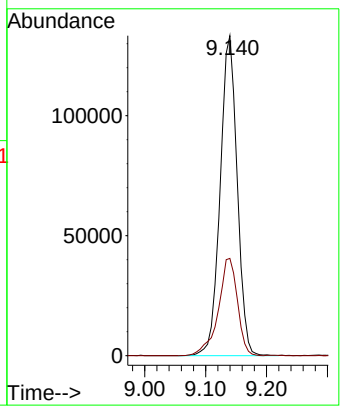





#45
1,2-Dichloropropane
Concen: 48.591 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 63 Resp: 25919

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.4 | 25.3 | 37.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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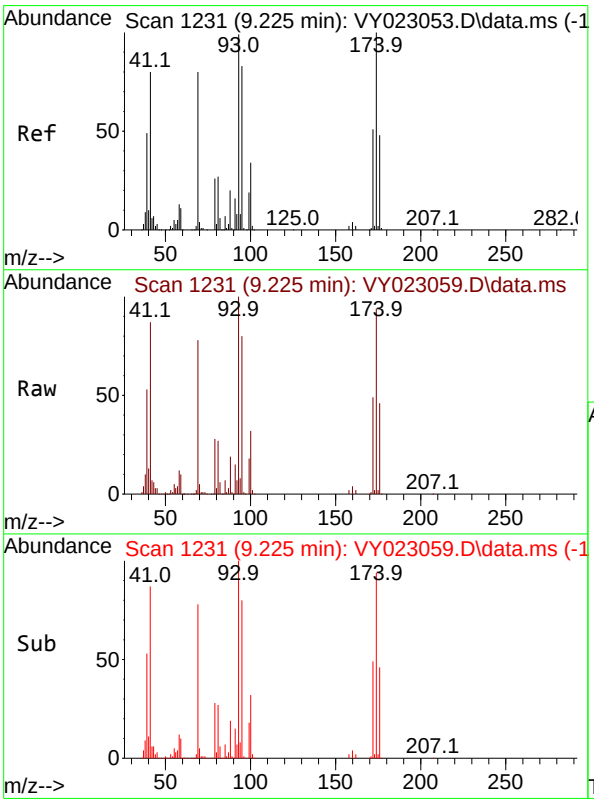
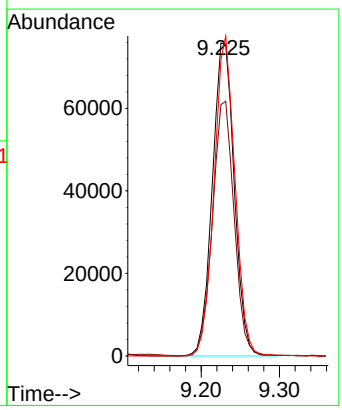
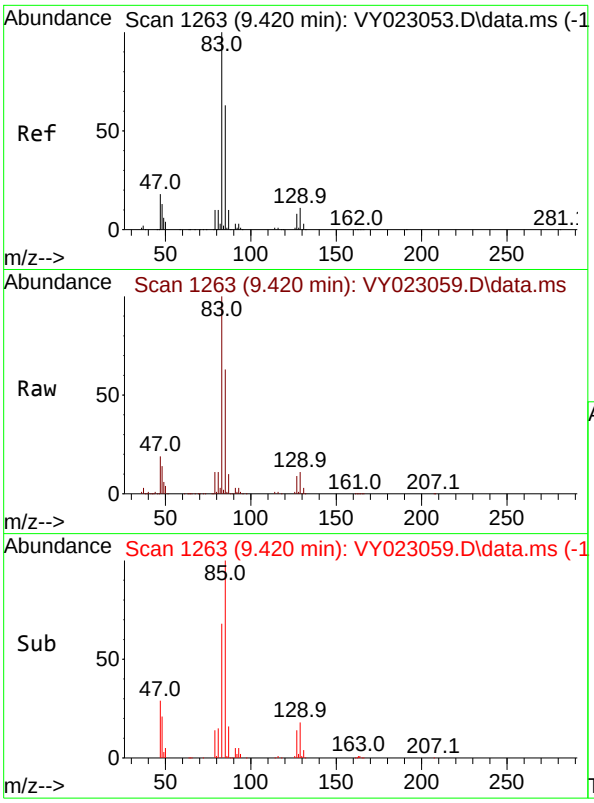



#46
Dibromomethane
Concen: 48.268 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 93 Resp: 147784

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 80.3 | 66.5 | 99.7 |
| 174 | 97.5 | 81.8 | 122.8 |

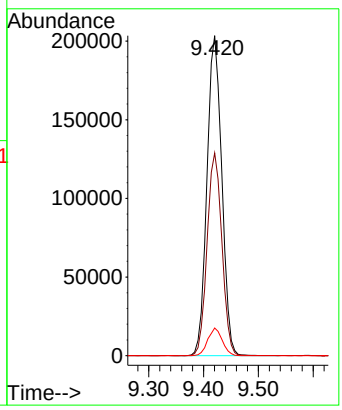





#47
Bromodichloromethane
Concen: 48.276 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 83 Resp: 38033

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.4 | 50.2 | 75.4 |
| 127 | 8.7 | 6.6 | 10.0 |




**Instrument :**
MSVOA_Y
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VSTDCCC050

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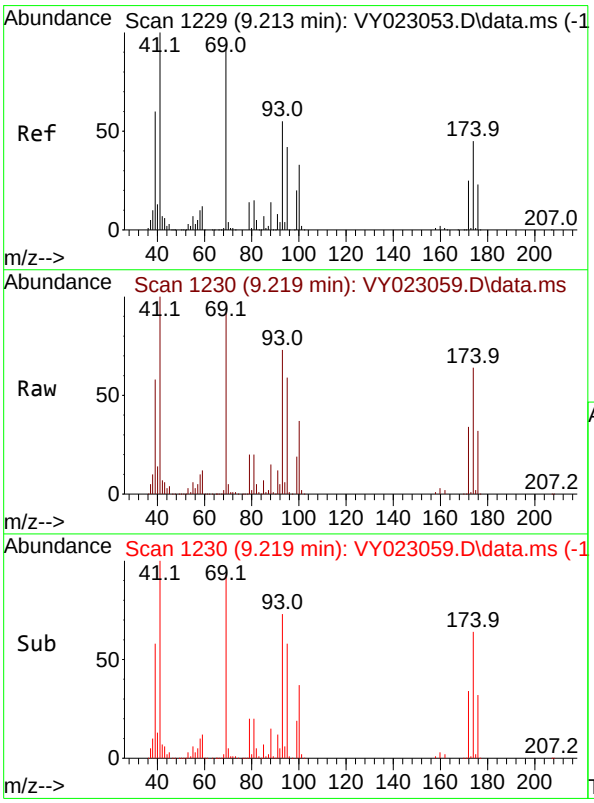
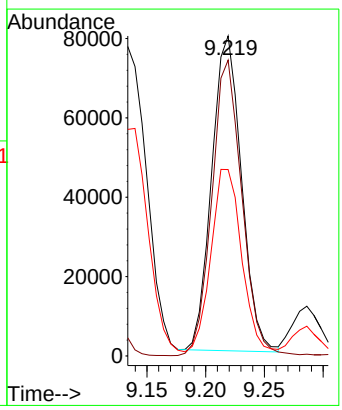
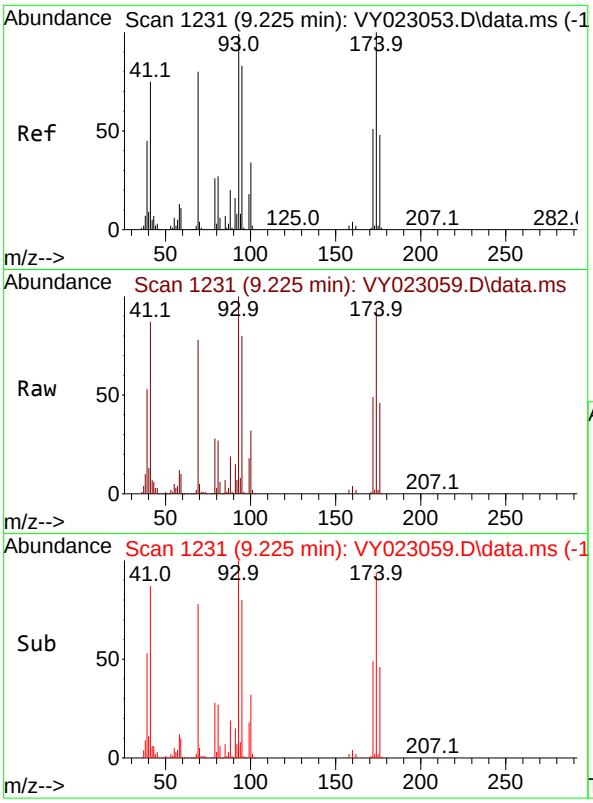



#48
Methyl methacrylate
Concen: 45.747 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 41 Resp: 139803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 95.0 | 73.2 | 109.8 |
| 39 | 59.5 | 47.0 | 70.4 |






#49
1,4-Dioxane
Concen: 905.464 ug/l
RT: 9.225 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 88 Resp: 3250

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 29.3 | 24.3 | 36.5 |
| 58 | 62.5 | 55.4 | 83.0 |

**Instrument :**
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VSTDCCC050

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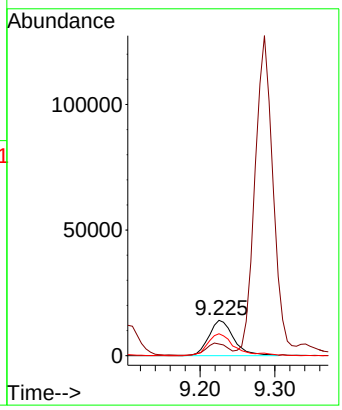
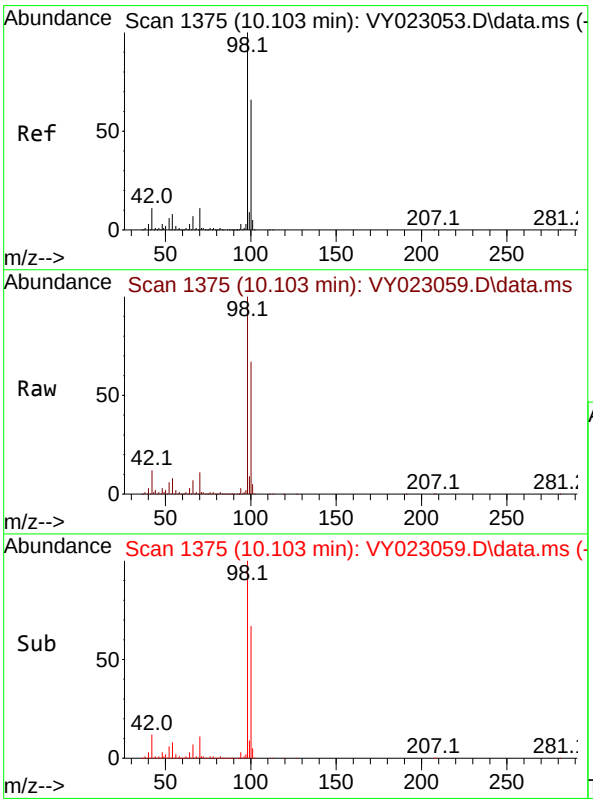
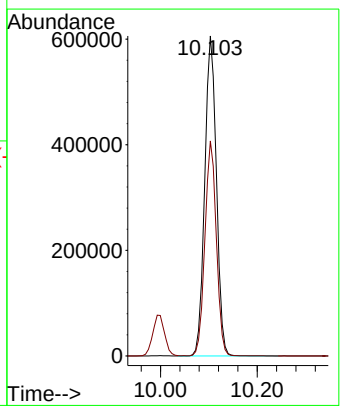


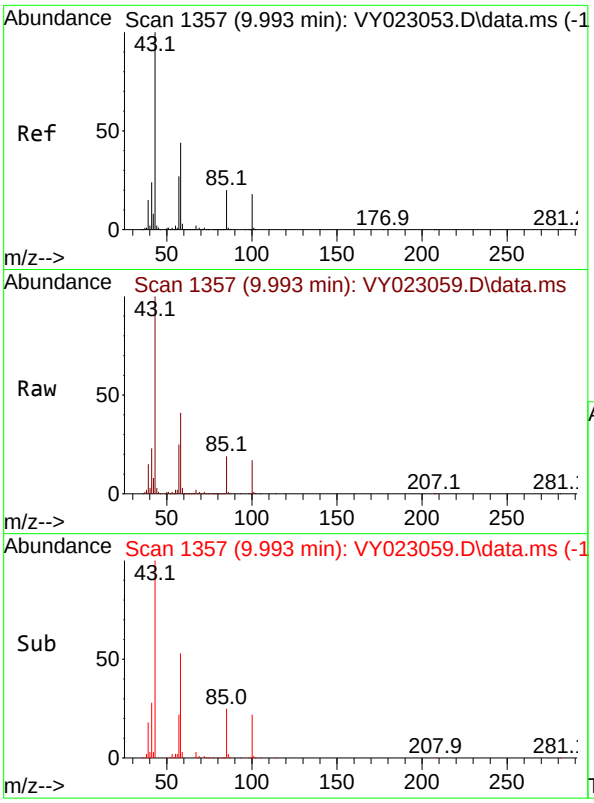




#50
Toluene-d8
Concen: 51.328 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 98 Resp: 1014903

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.9 | 52.3 | 78.5 |

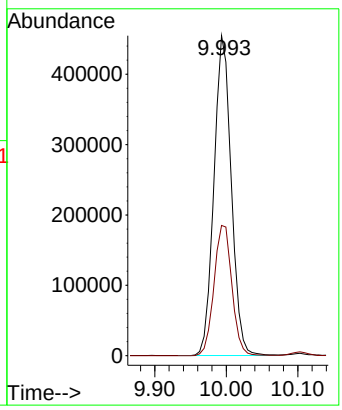





#51
4-Methyl-2-Pentanone
Concen: 232.613 ug/l
RT: 9.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 43 Resp: 76628

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 42.1 | 33.5 | 50.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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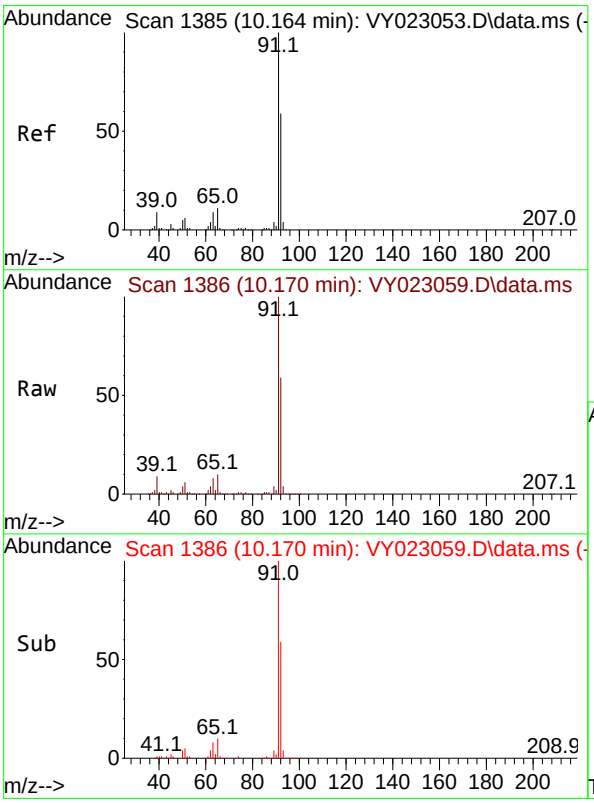
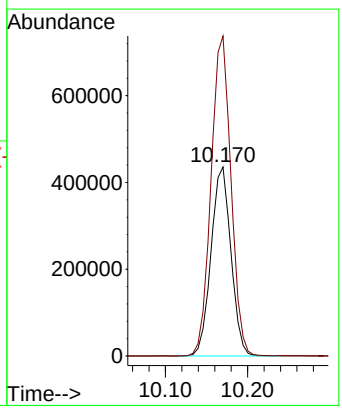
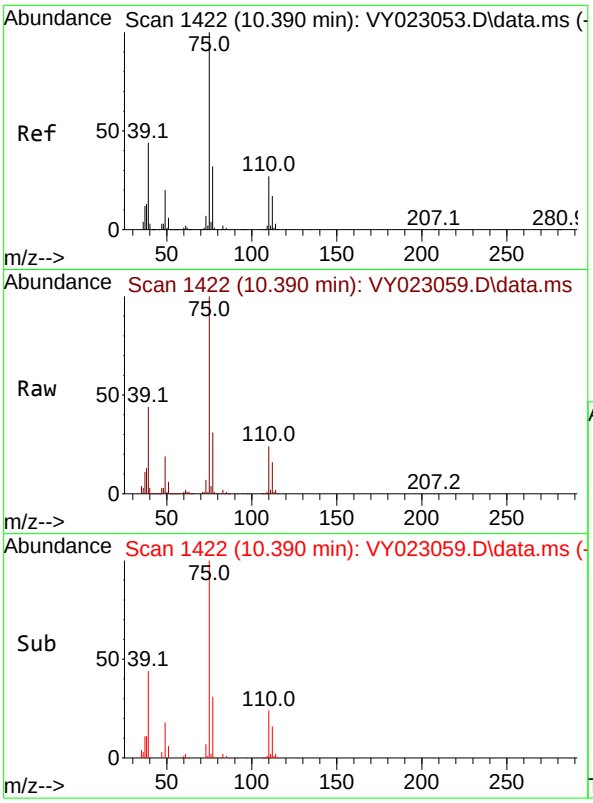



#52
Toluene
Concen: 49.619 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 92 Resp: 730616

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 170.0 | 136.4 | 204.6 |






#53
t-1,3-Dichloropropene
Concen: 48.623 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 75 Resp: 34688

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.3 | 25.7 | 38.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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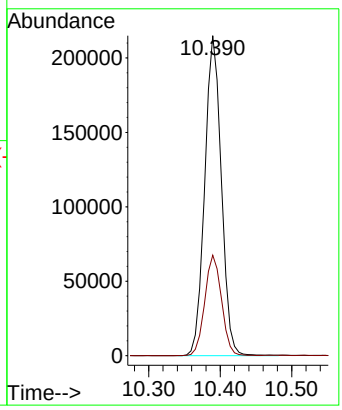
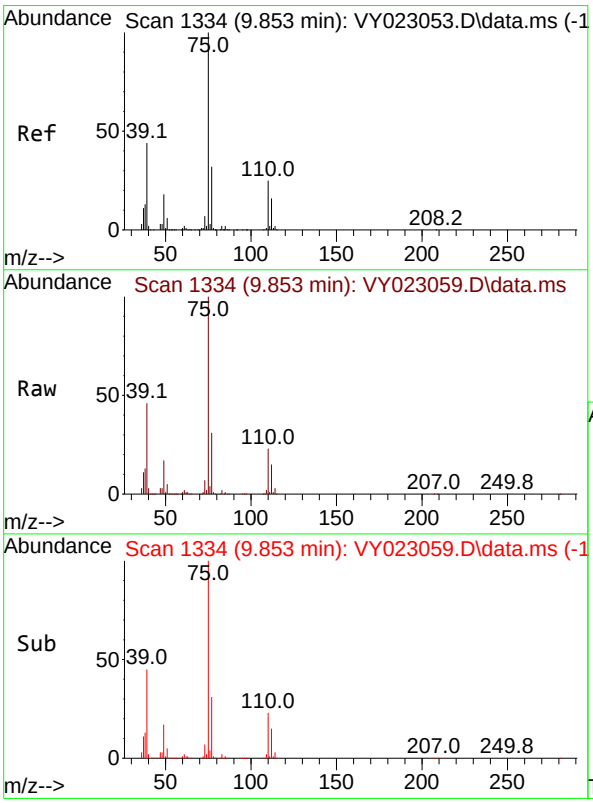
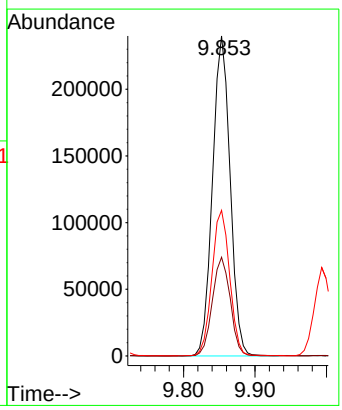


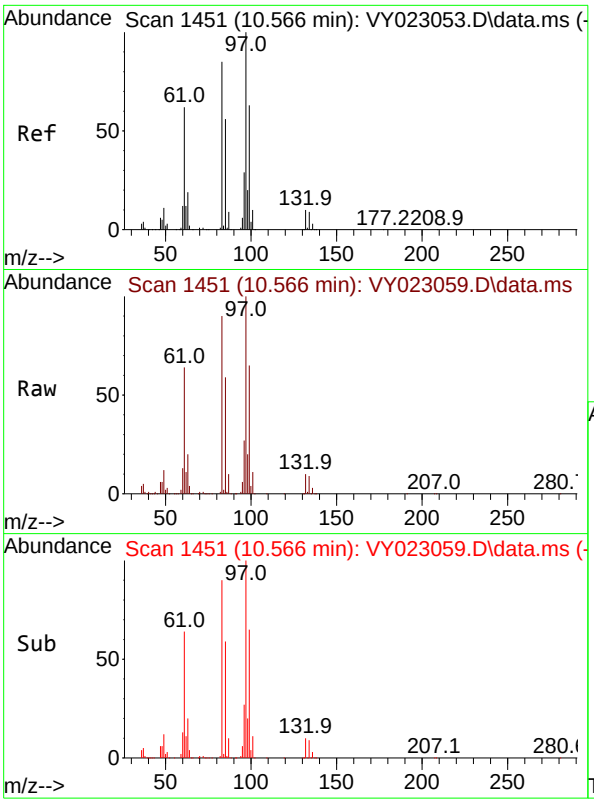




#54
cis-1,3-Dichloropropene
Concen: 48.667 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 75 Resp: 410557

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.8 | 25.4 | 38.0 |
| 39 | 45.5 | 35.6 | 53.4 |

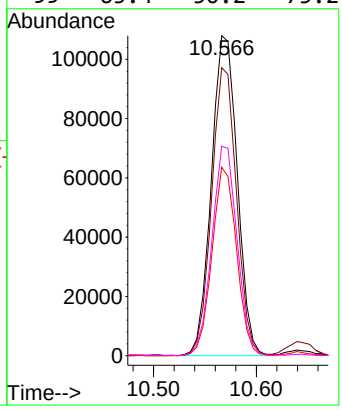





#55
1,1,2-Trichloroethane
Concen: 46.330 ug/l
RT: 10.566 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 97 Resp: 18981

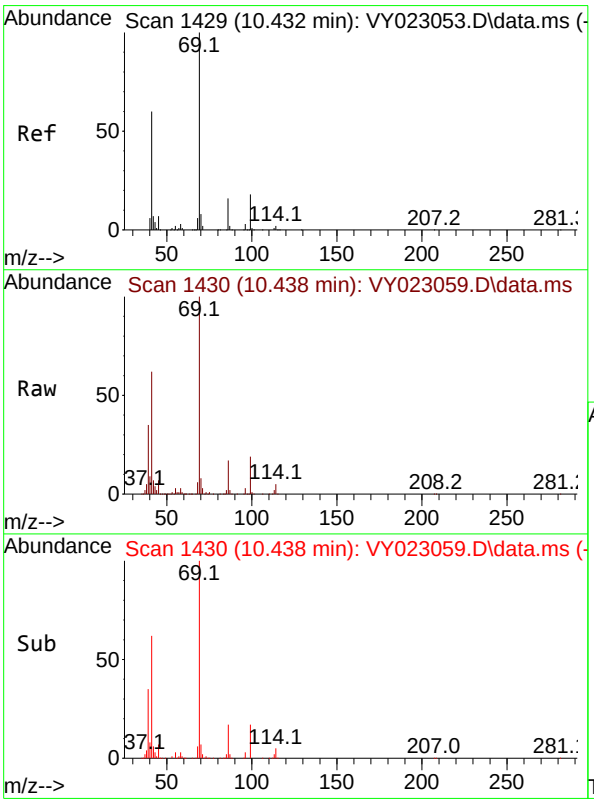
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 89.9 | 67.7 | 101.5 |
| 85 | 58.8 | 44.5 | 66.7 |
| 99 | 65.4 | 50.2 | 75.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

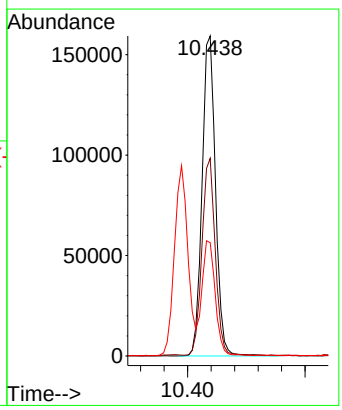
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

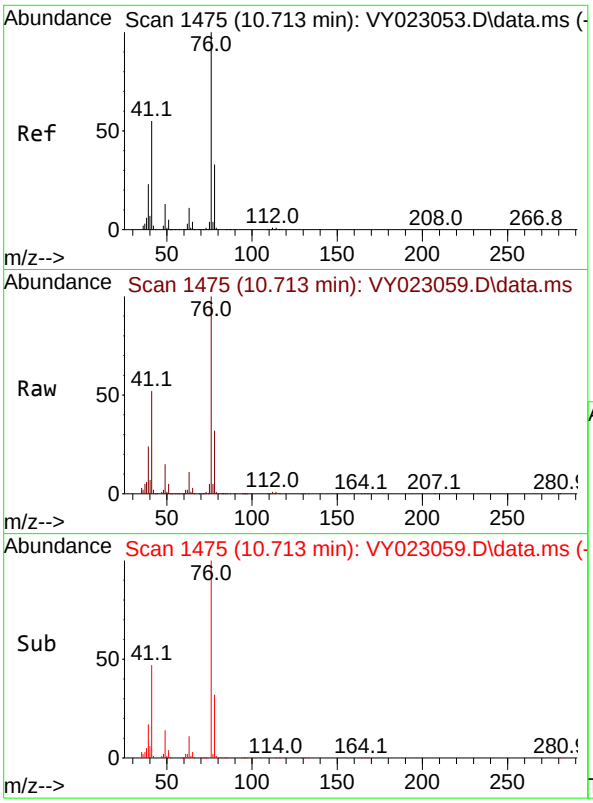



#56
Ethyl methacrylate
Concen: 48.194 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 69 Resp: 252654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 61.0 | 48.6 | 72.8 |
| 39 | 35.3 | 27.0 | 40.4 |






#57
1,3-Dichloropropane
Concen: 47.351 ug/l
RT: 10.713 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 76 Resp: 32899

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.5 | 26.0 | 39.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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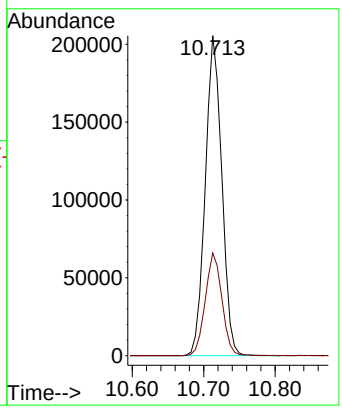
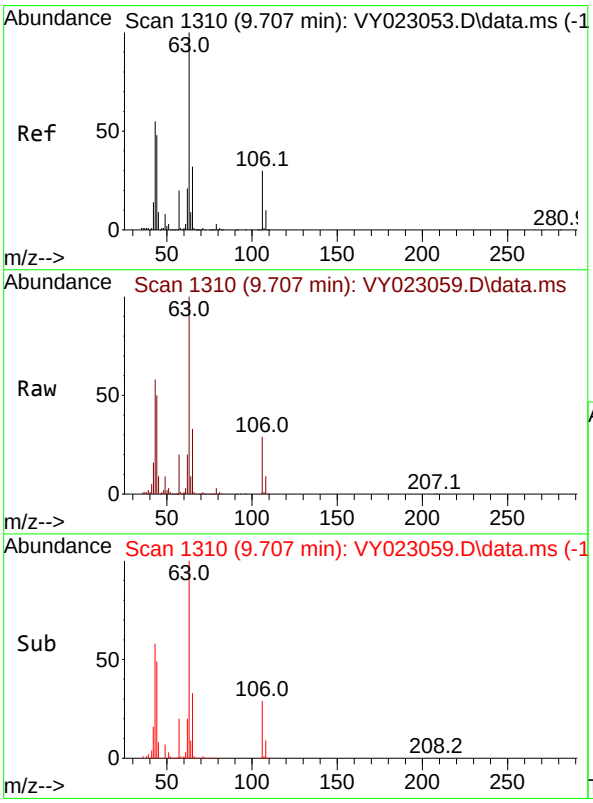
Supervised By :Semsettin Yesilyurt 08/19/2025

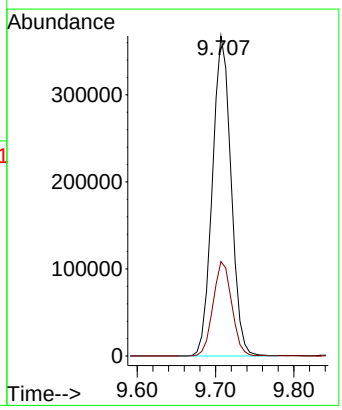


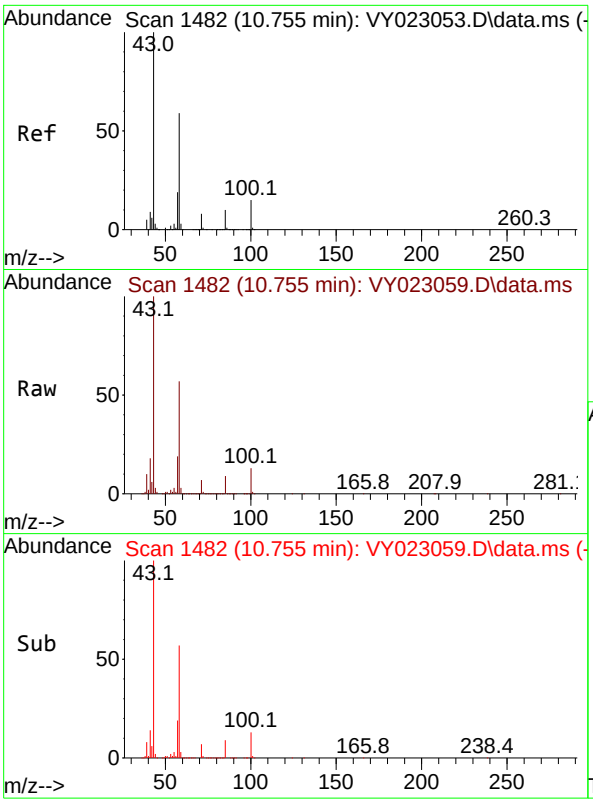




#58
2-Chloroethyl Vinyl ether
Concen: 246.593 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 63 Resp: 609788

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 29.4 | 23.2 | 34.8 |






#59
2-Hexanone
Concen: 243.235 ug/l
RT: 10.755 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 43 Resp: 54561

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 57.6 | 29.5 | 88.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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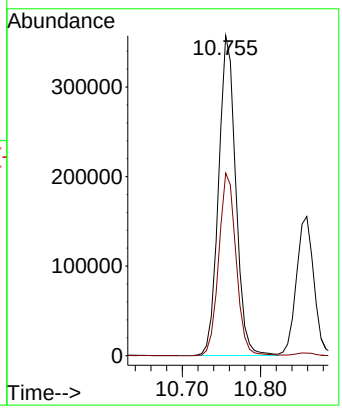
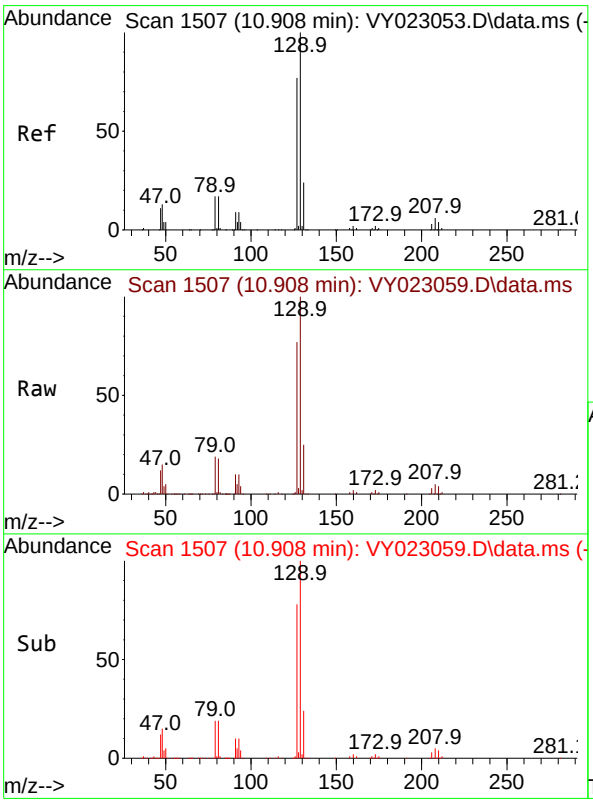
Supervised By :Semsettin Yesilyurt 08/19/2025

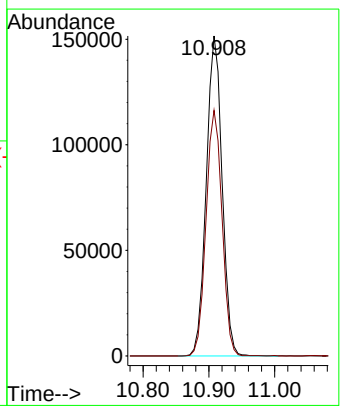


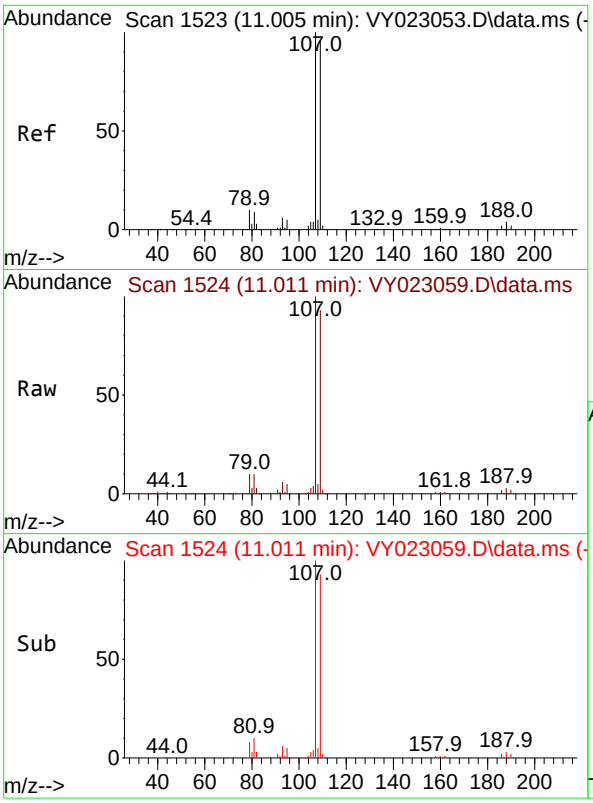




#60
Dibromochloromethane
Concen: 46.904 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:129 Resp: 253556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.6 | 38.5 | 115.5 |






#61
1,2-Dibromoethane
Concen: 46.761 ug/l
RT: 11.011 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:107 Resp: 18006

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.2 | 75.6 | 113.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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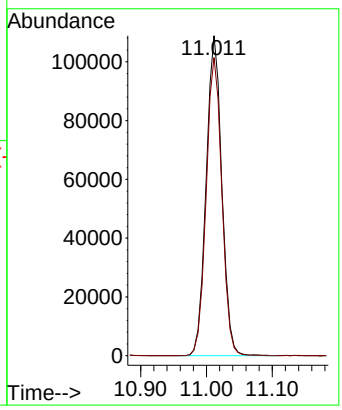
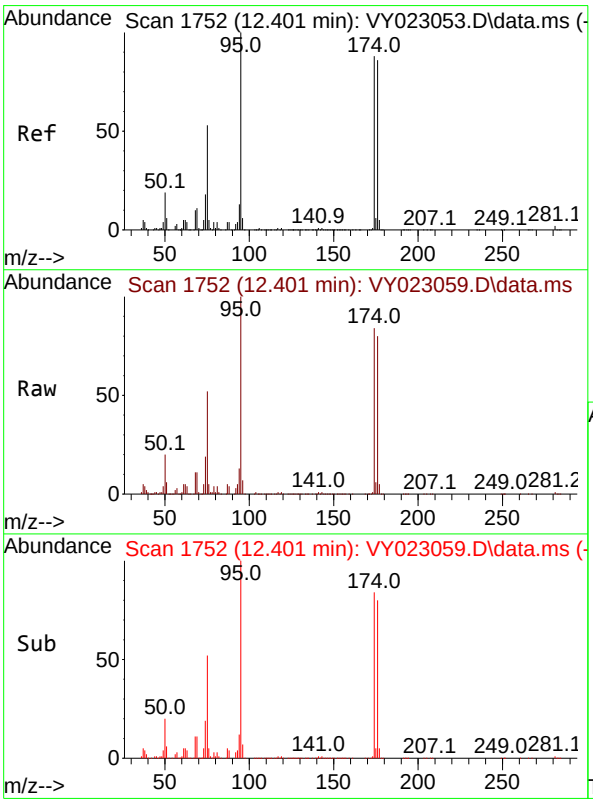
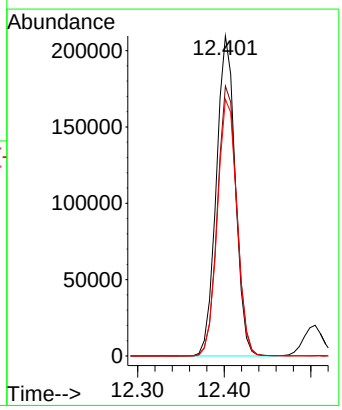


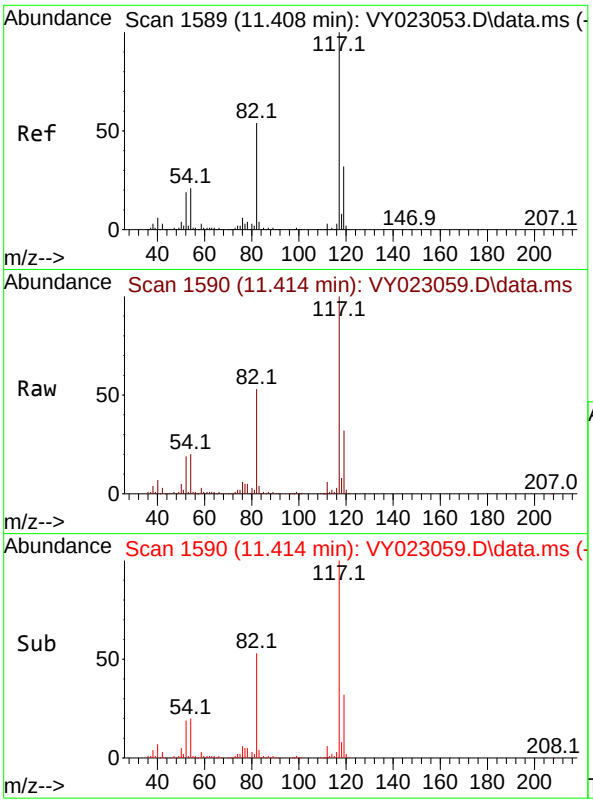




#62
4-Bromofluorobenzene
Concen: 50.020 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 95 Resp: 318073

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 85.9 | 0.0 | 171.6 |
| 176 | 82.6 | 0.0 | 167.6 |

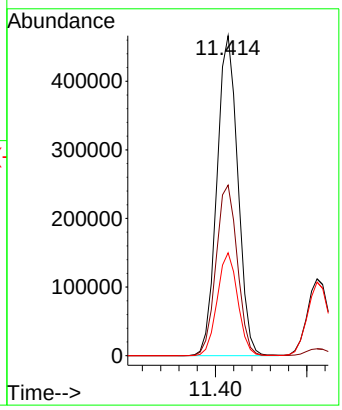





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:117 Resp: 74185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 53.3 | 43.4 | 65.0 |
| 119 | 32.2 | 25.6 | 38.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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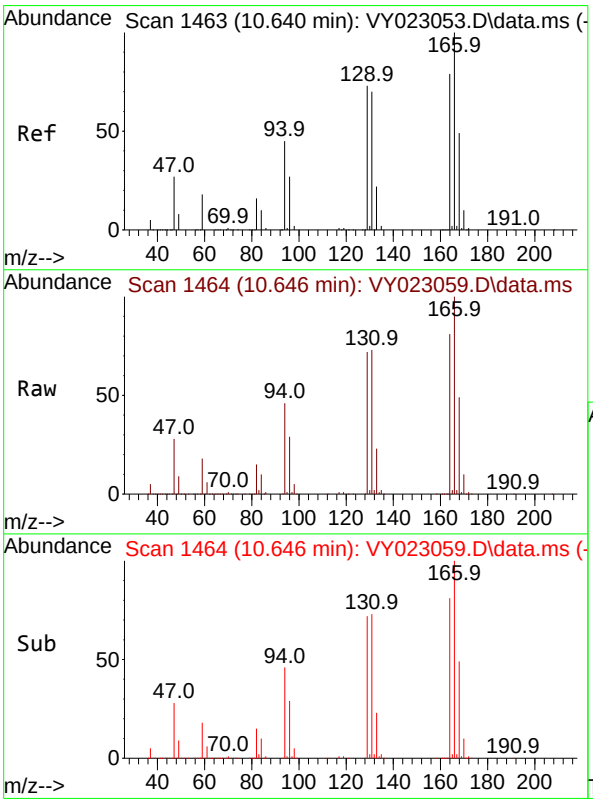
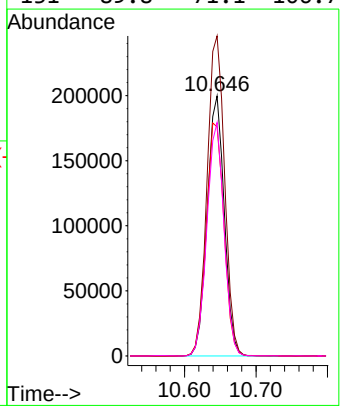
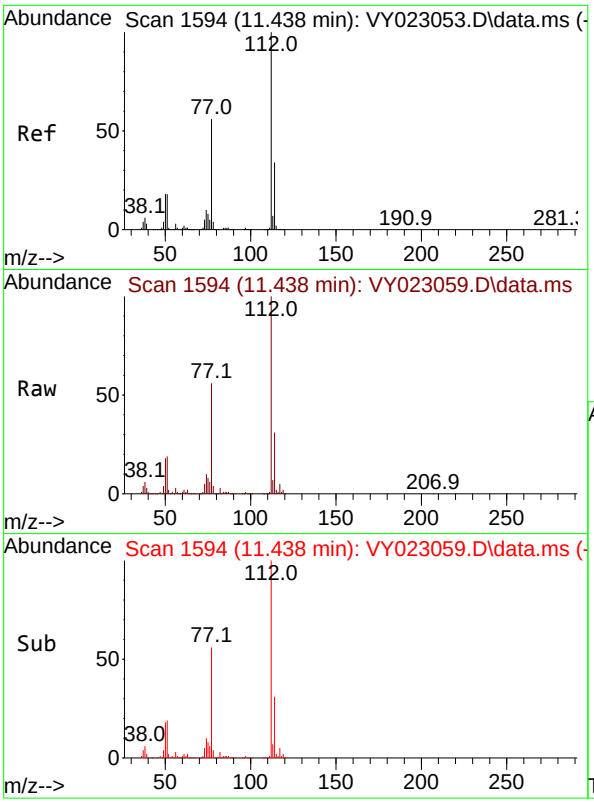



#64
Tetrachloroethene
Concen: 50.070 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:164 Resp: 331676

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 123.1 | 101.1 | 151.7 |
| 129 | 88.1 | 74.0 | 111.0 |
| 131 | 89.8 | 71.1 | 106.7 |

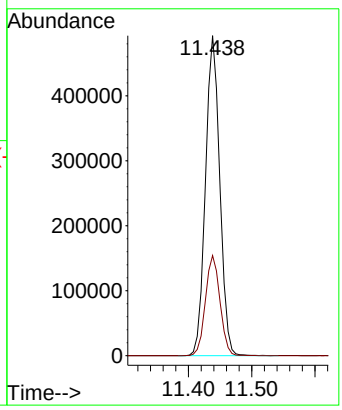





#65
Chlorobenzene
Concen: 48.346 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:112 Resp: 77362

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.3 | 27.0 | 40.4 |




**Instrument :**
MSVOA_Y
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VSTDCCC050

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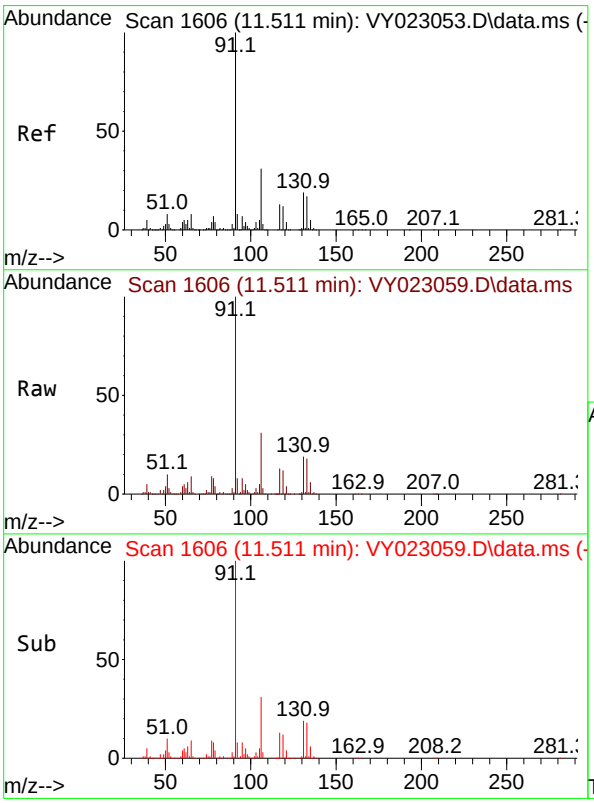
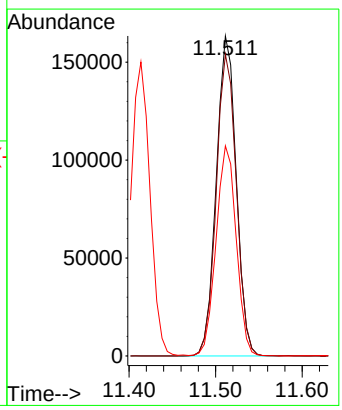
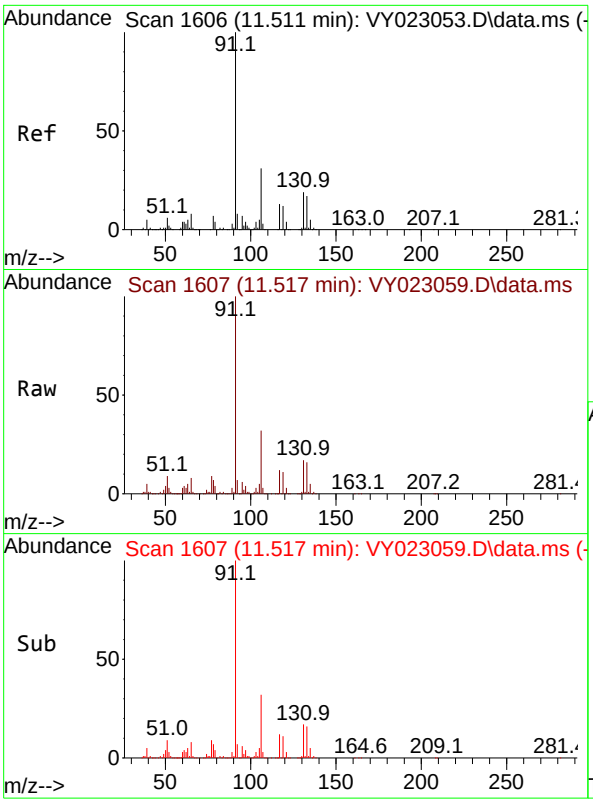



#66
1,1,1,2-Tetrachloroethane
Concen: 48.113 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:131 Resp: 261298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.3 | 46.9 | 140.6 |
| 119 | 66.5 | 33.2 | 99.6 |

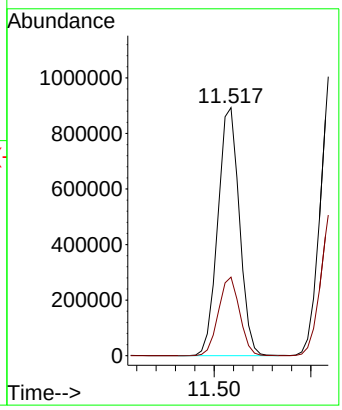





#67
Ethyl Benzene
Concen: 49.987 ug/l
RT: 11.517 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 91 Resp: 137652

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.7 | 25.0 | 37.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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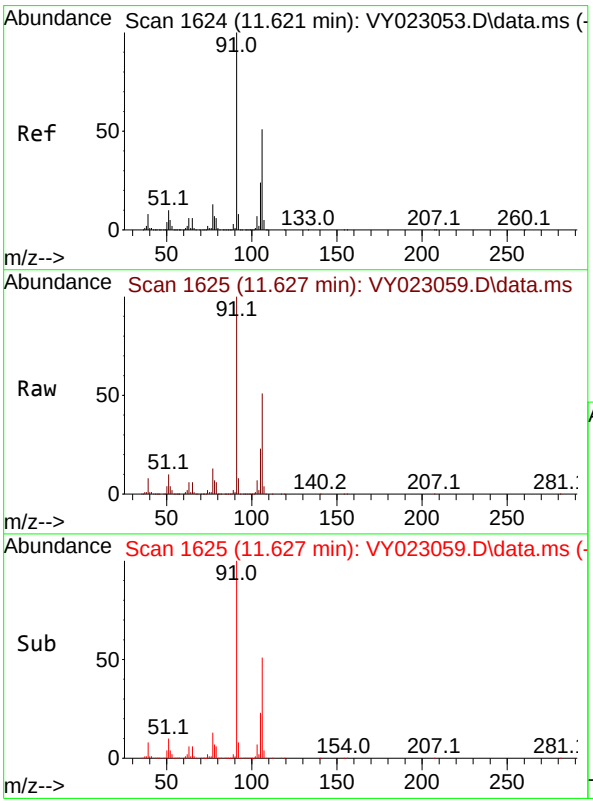
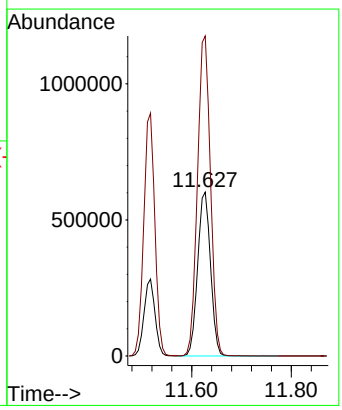
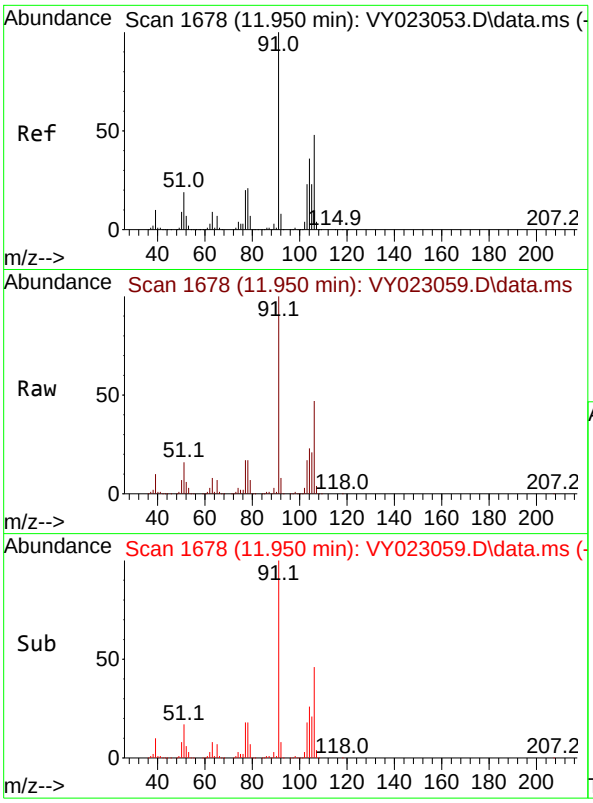



#68
m/p-Xylenes
Concen: 99.994 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:106 Resp: 1075458

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 197.3 | 158.6 | 238.0 |






#69
o-Xylene
Concen: 50.162 ug/l
RT: 11.950 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:106 Resp: 50529

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 208.1 | 103.2 | 309.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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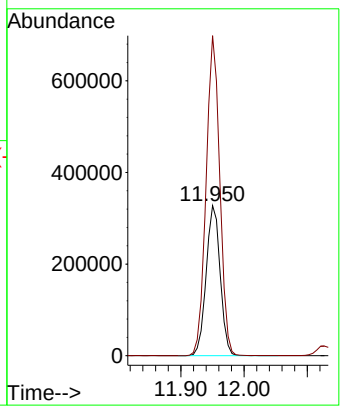
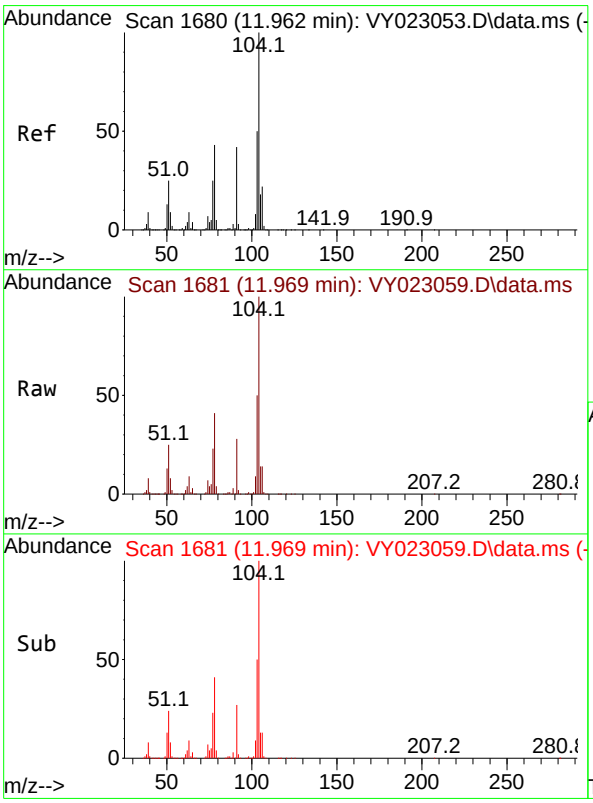
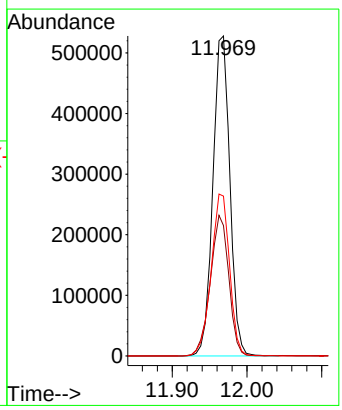


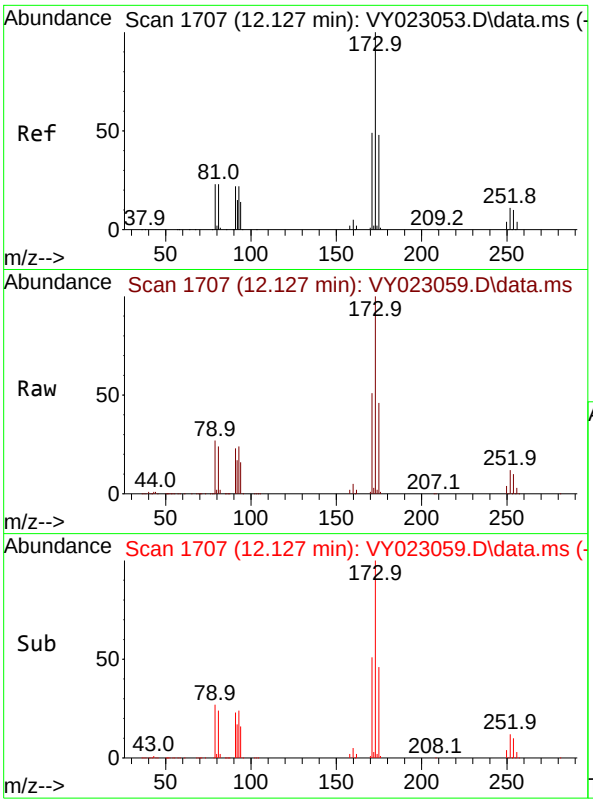




#70
Styrene
Concen: 50.595 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:104 Resp: 833474

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 47.8 | 38.5 | 57.7 |
| 103 | 54.9 | 43.7 | 65.5 |

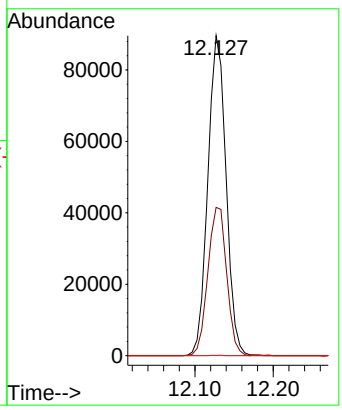





#71
Bromoform
Concen: 45.557 ug/l
RT: 12.127 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:173 Resp: 14460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.9 | 23.9 | 71.7 |
| 254 | 0.1 | 0.1 | 0.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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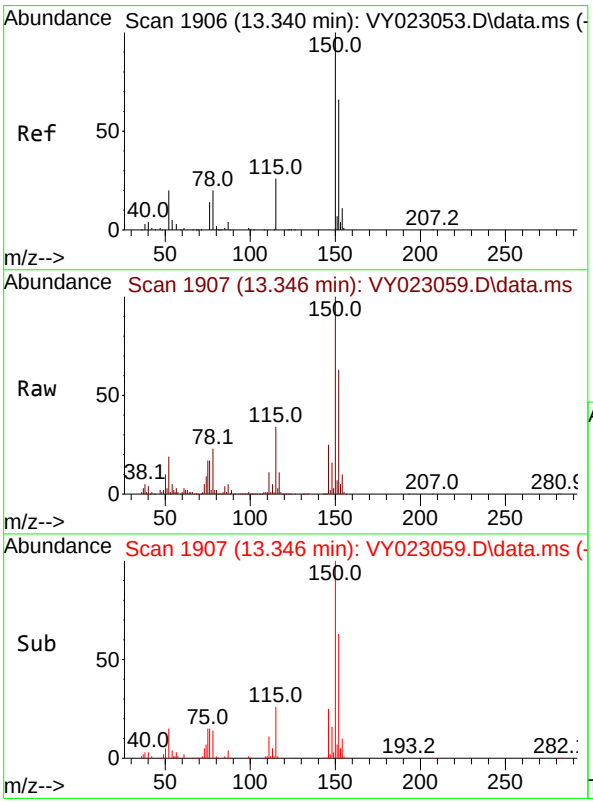
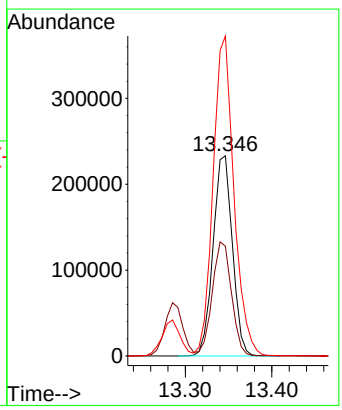
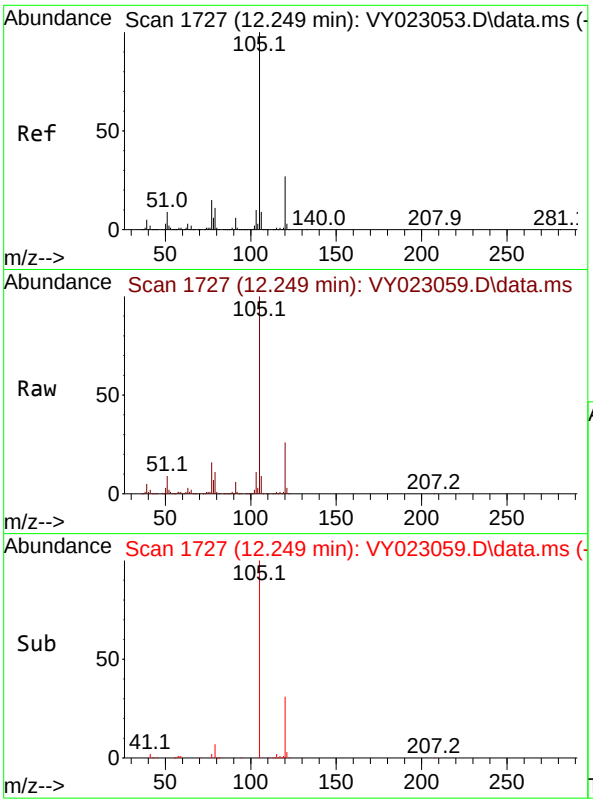



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:152 Resp: 361154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 56.8 | 28.2 | 84.6 |
| 150 | 172.3 | 0.0 | 348.0 |

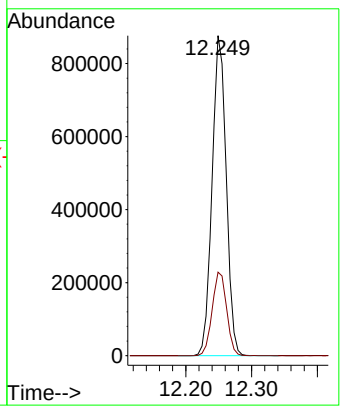





#73
Isopropylbenzene
Concen: 51.327 ug/l
RT: 12.249 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:105 Resp: 130832

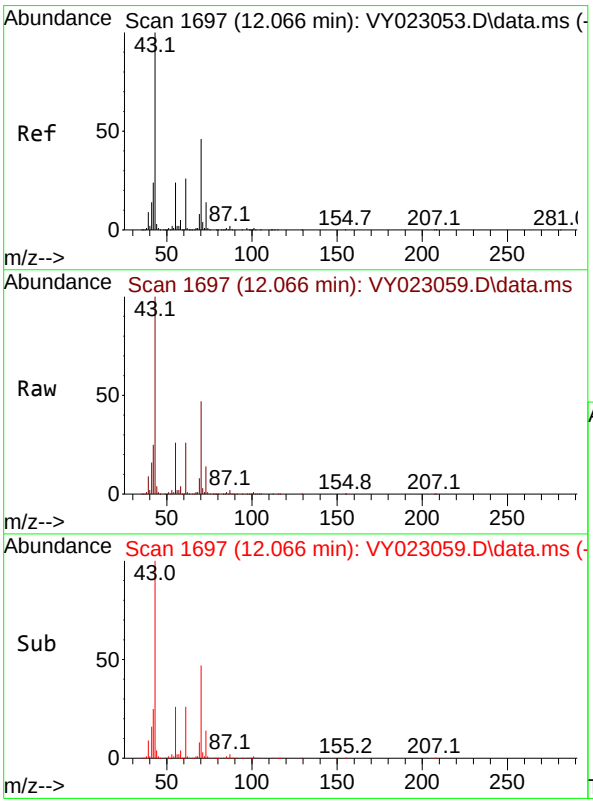
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.7 | 13.4 | 40.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

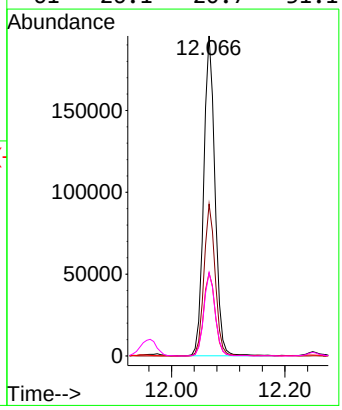
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

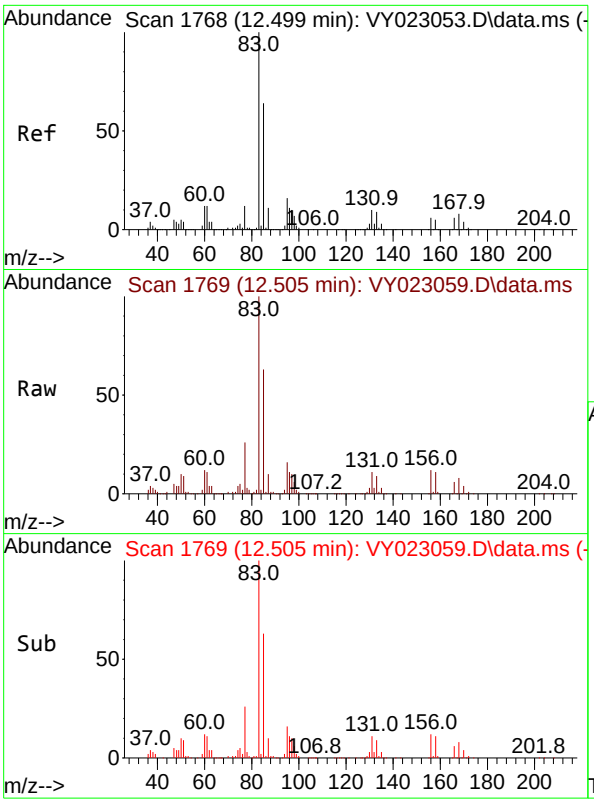



#74
N-amyl acetate
Concen: 49.922 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 43 Resp: 269858

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 47.1 | 37.5 | 56.3 |
| 55 | 26.7 | 20.7 | 31.1 |
| 61 | 26.1 | 20.7 | 31.1 |

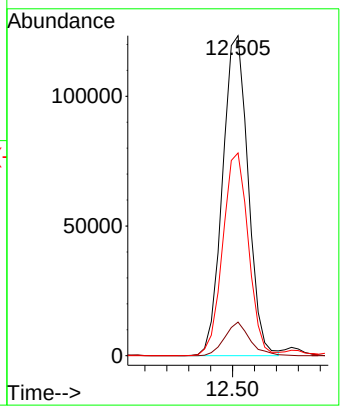





#75
1,1,2,2-Tetrachloroethane
Concen: 45.905 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 83 Resp: 19979

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.3 | 5.1 | 15.3 |
| 85 | 63.6 | 31.8 | 95.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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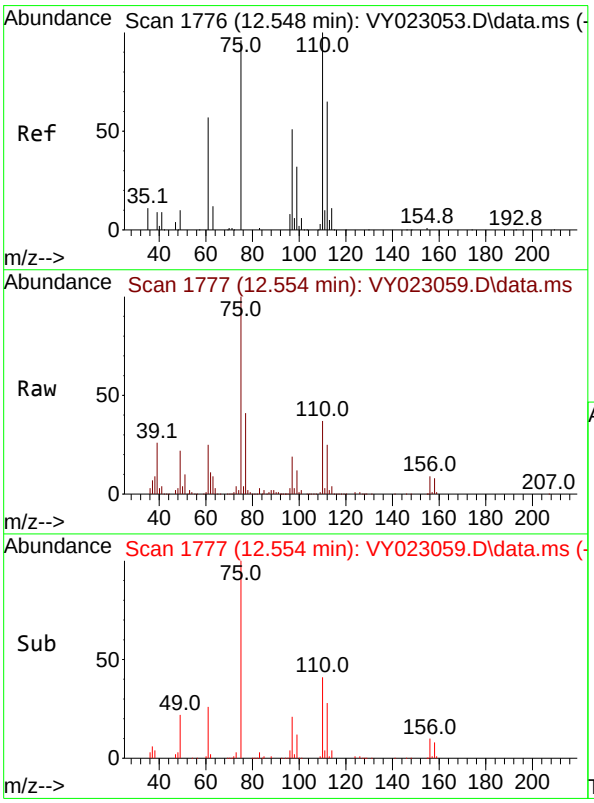
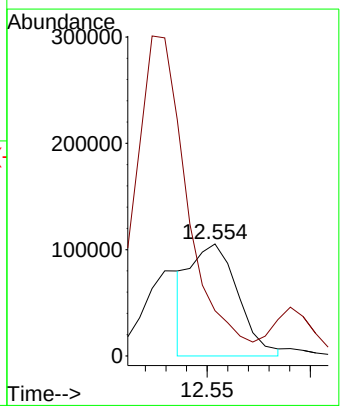
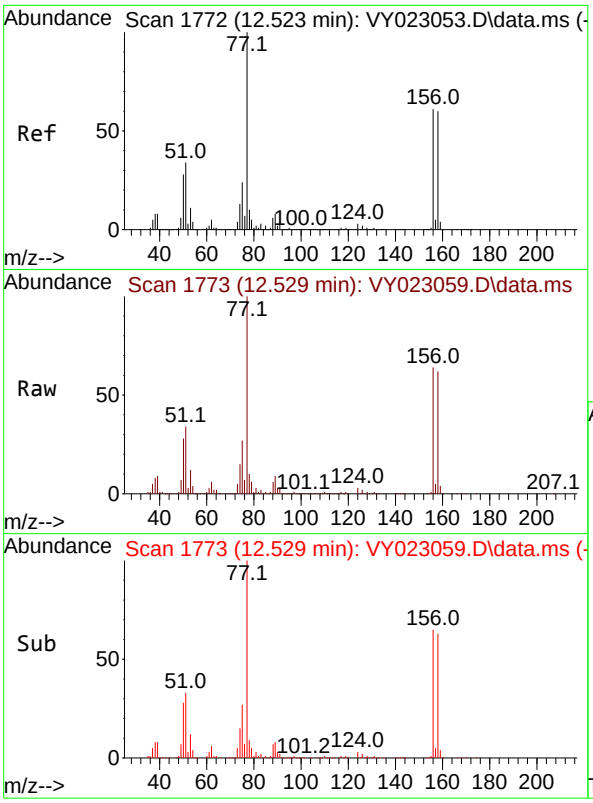



#76
1,2,3-Trichloropropane
Concen: 48.654 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 75 Resp: 169584

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |

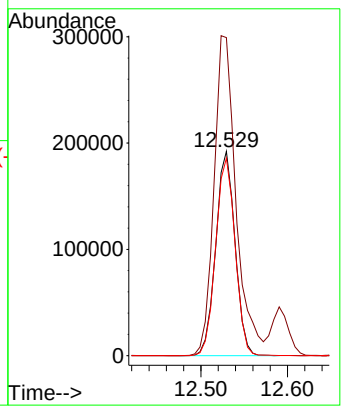





#77
Bromobenzene
Concen: 48.794 ug/l
RT: 12.529 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:156 Resp: 29672

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 179.1 | 88.1 | 264.4 |
| 158 | 97.6 | 48.0 | 144.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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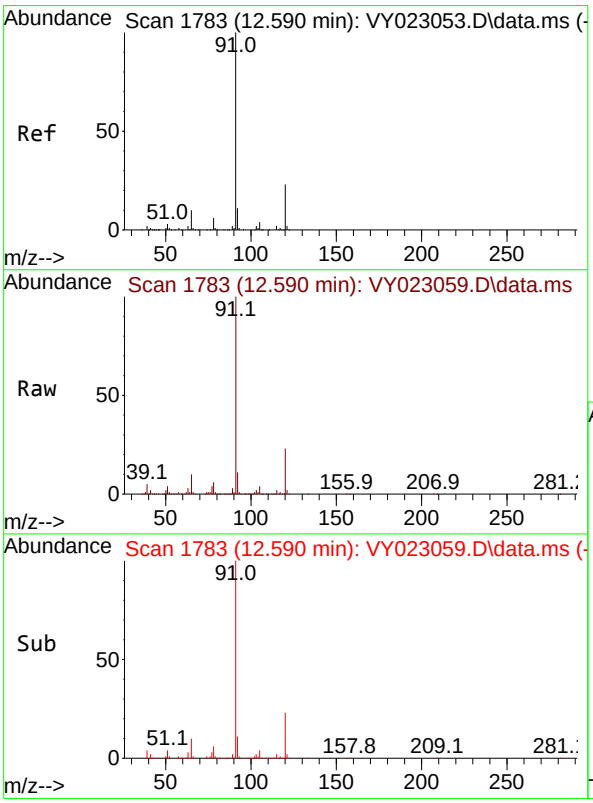
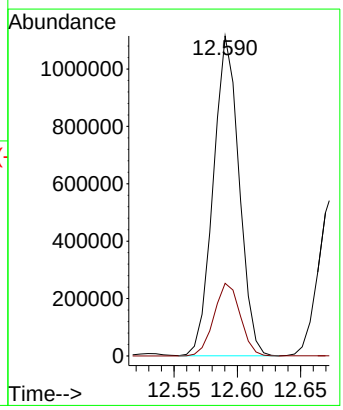
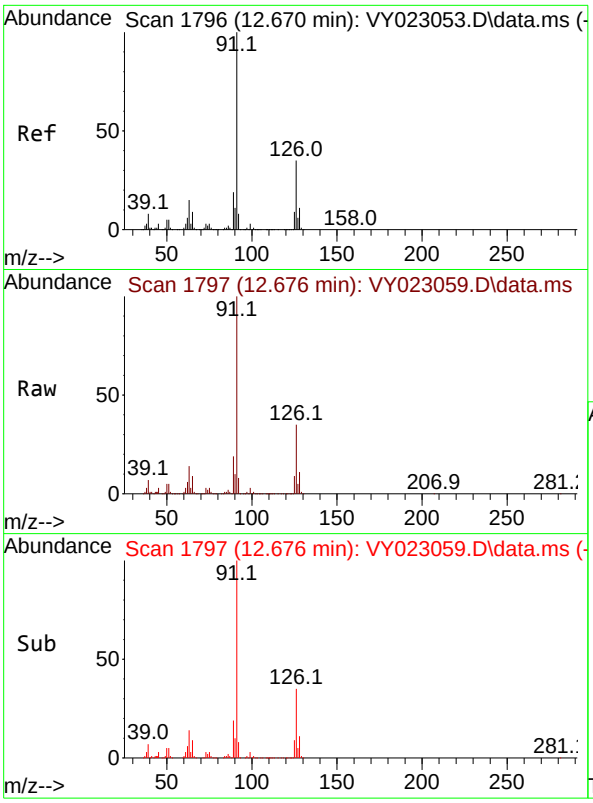



#78
n-propylbenzene
Concen: 52.061 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 91 Resp: 1579912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 23.1 | 11.5 | 34.5 |






#79
2-Chlorotoluene
Concen: 50.703 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 91 Resp: 88161

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.8 | 17.4 | 52.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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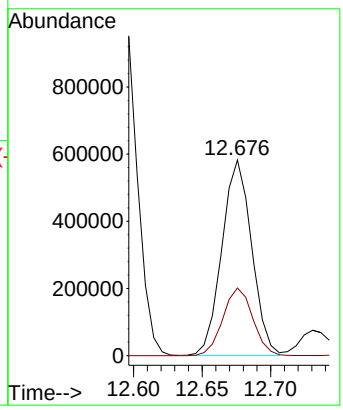
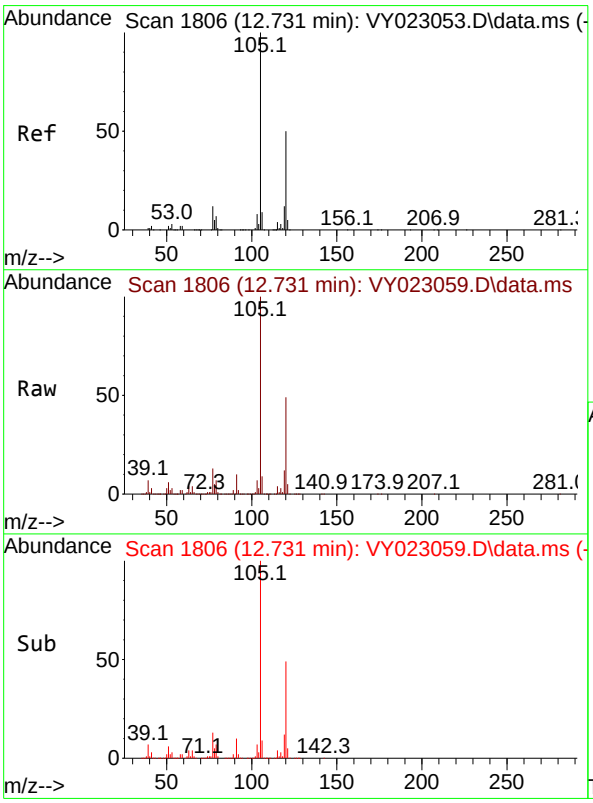
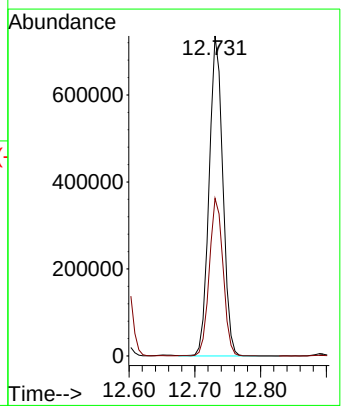


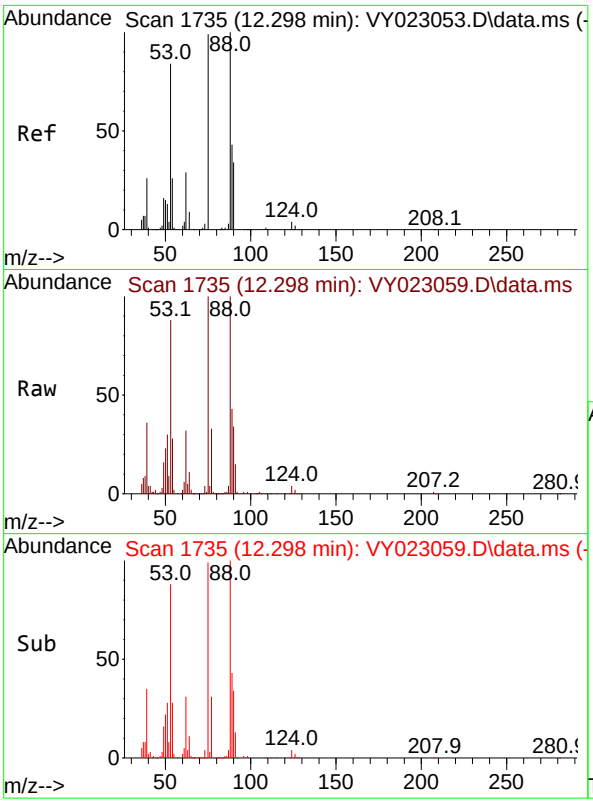




#80
1,3,5-Trimethylbenzene
Concen: 51.563 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:105 Resp: 1062229

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.6 | 24.8 | 74.4 |

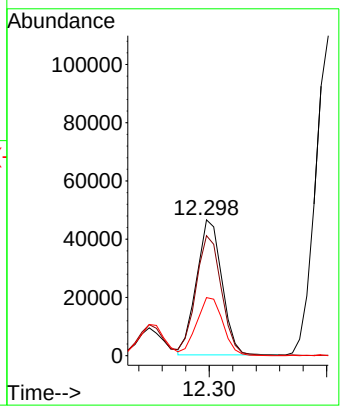





#81
trans-1,4-Dichloro-2-butene
Concen: 48.354 ug/l
RT: 12.298 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 75 Resp: 6962

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 89.4 | 70.8 | 106.2 |
| 89 | 44.8 | 38.1 | 57.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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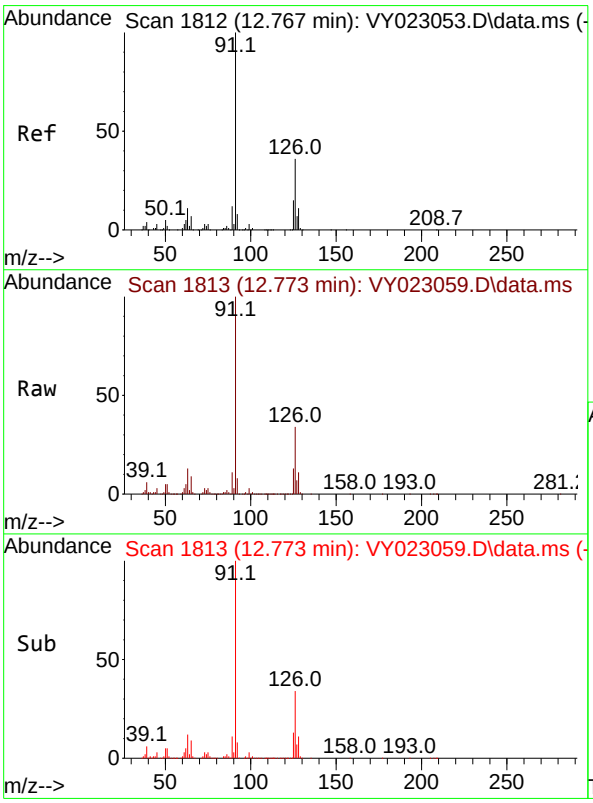
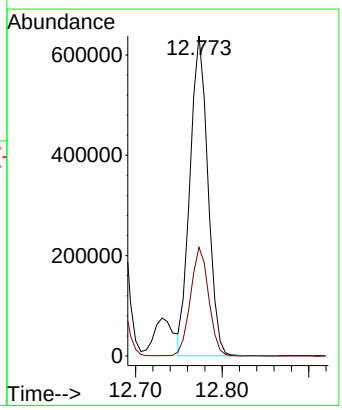
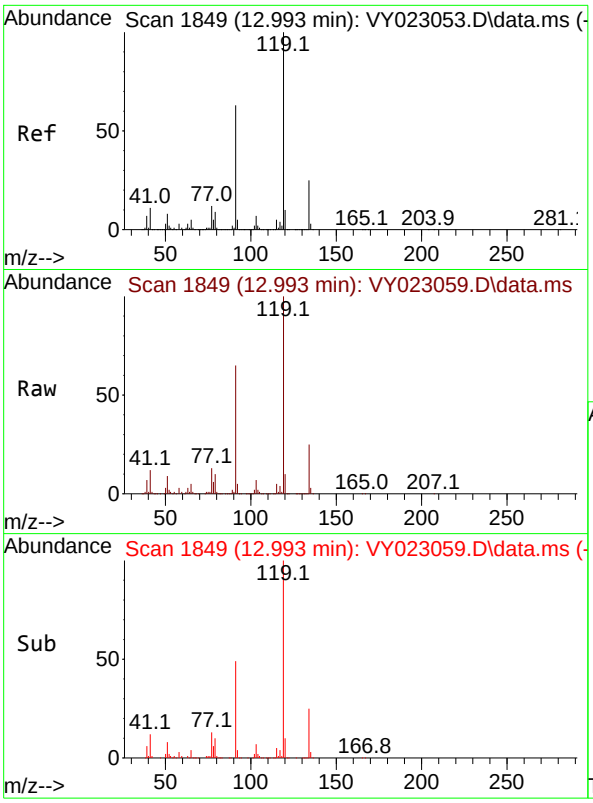



#82
4-Chlorotoluene
Concen: 50.659 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 91 Resp: 913772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.5 | 17.3 | 52.0 |

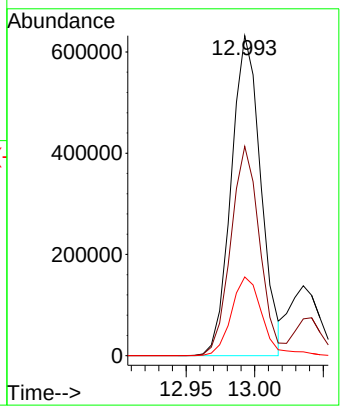





#83
tert-Butylbenzene
Concen: 51.072 ug/l
RT: 12.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:119 Resp: 95024

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 64.3 | 31.6 | 94.8 |
| 134 | 25.8 | 12.9 | 38.7 |




**Instrument :**
MSVOA_Y
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VSTDCCC050

**Manual Integrations**
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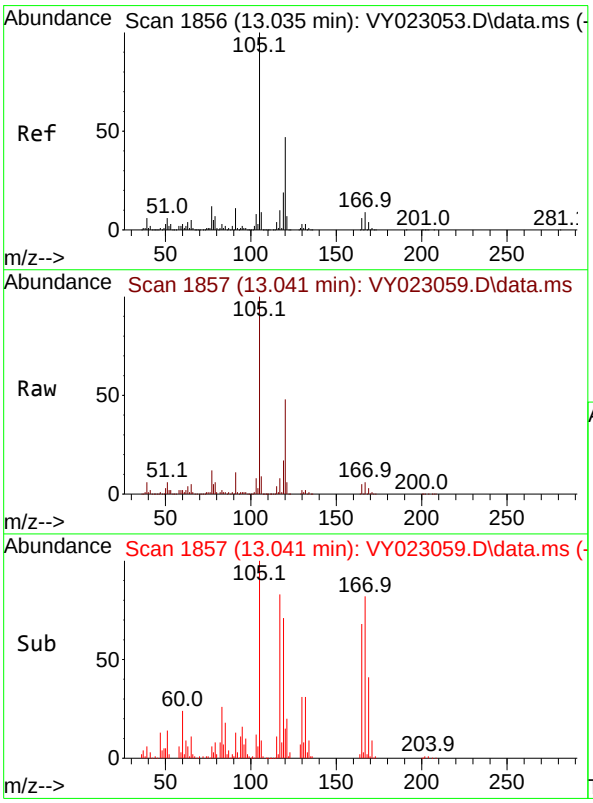
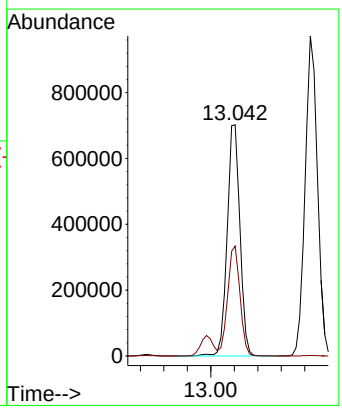
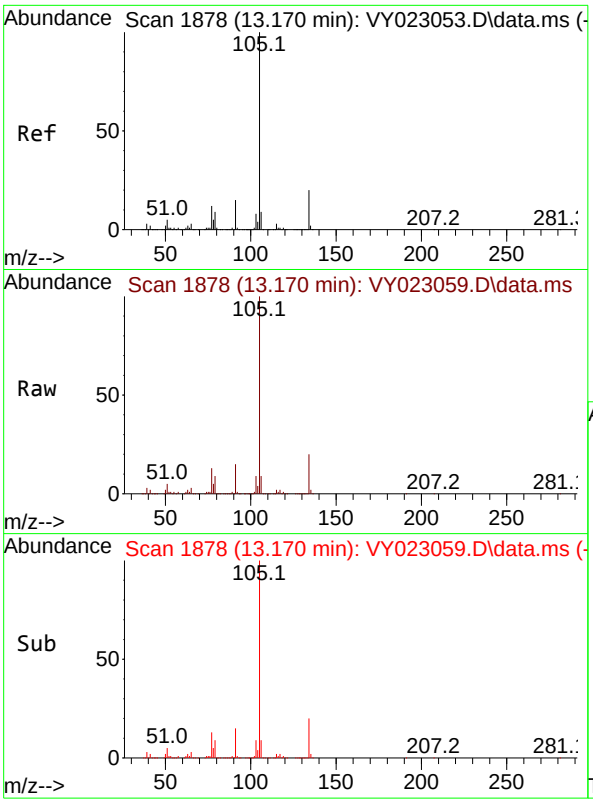



#84
1,2,4-Trimethylbenzene
Concen: 51.723 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:105 Resp: 1060687

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.0 | 23.0 | 69.0 |






#85
sec-Butylbenzene
Concen: 51.748 ug/l
RT: 13.170 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:105 Resp: 141436

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.2 | 10.2 | 30.4 |

**Instrument :**
MSVOA_Y
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VSTDCCC050

**Manual Integrations**
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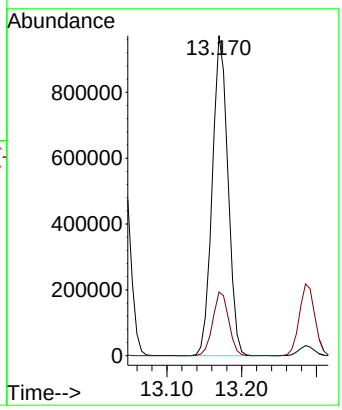
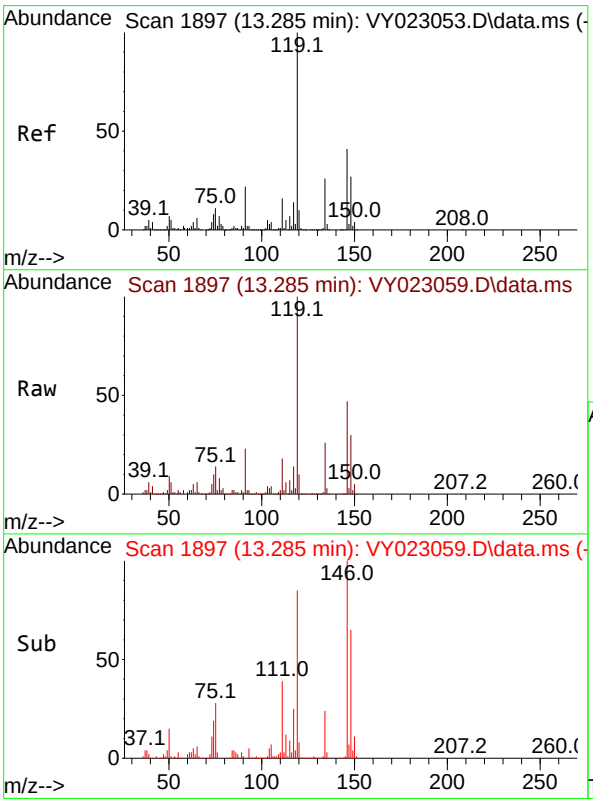
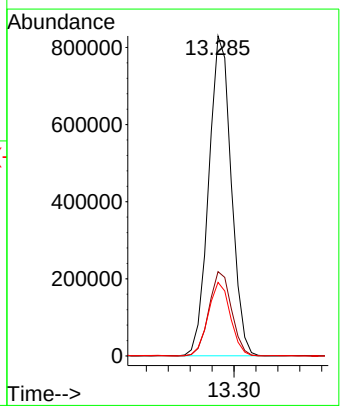


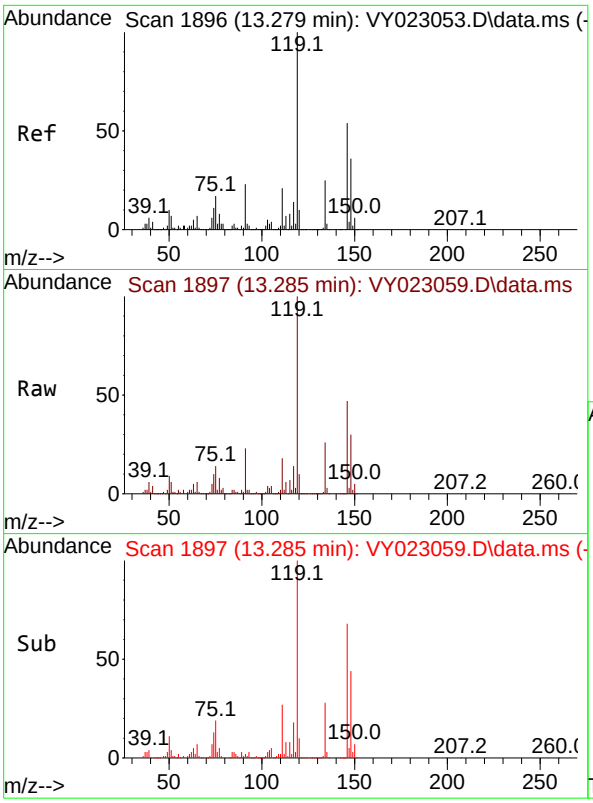




#86
p-Isopropyltoluene
Concen: 52.130 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:119 Resp: 1182656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.4 | 13.2 | 39.6 |
| 91 | 22.7 | 11.3 | 33.8 |

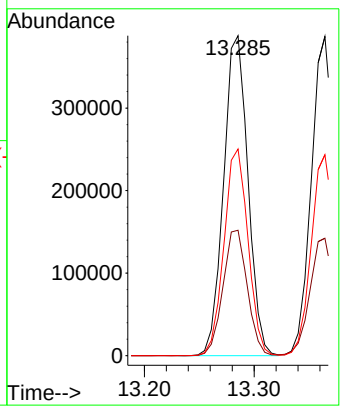





#87
1,3-Dichlorobenzene
Concen: 49.866 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:146 Resp: 59800

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.2 | 19.6 | 58.7 |
| 148 | 63.7 | 32.5 | 97.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

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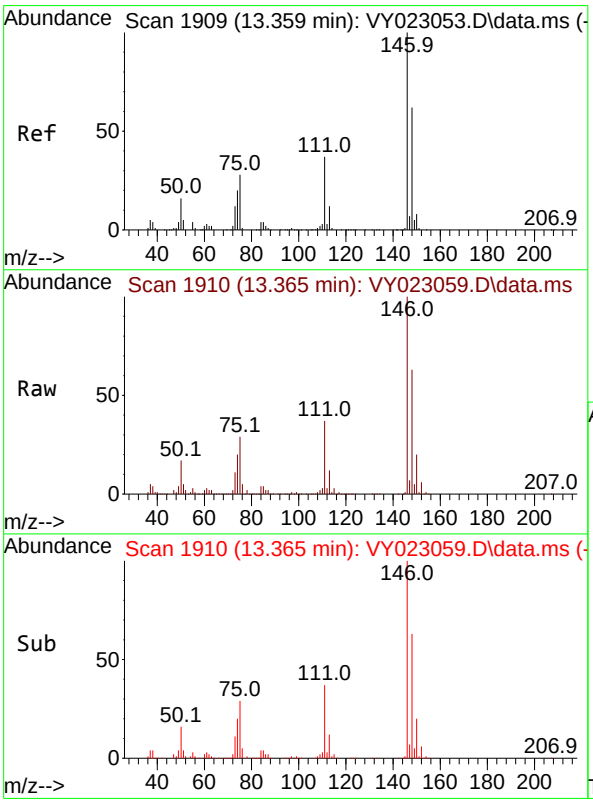
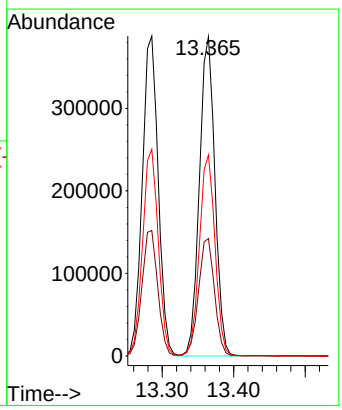
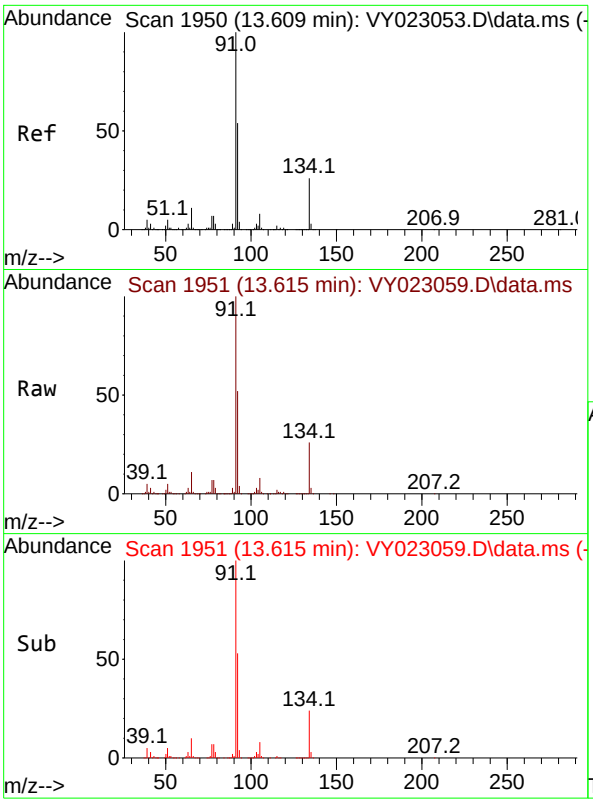



#88
1,4-Dichlorobenzene
Concen: 48.956 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:146 Resp: 582375

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 37.9 | 19.1 | 57.1 |
| 148 | 63.5 | 31.6 | 94.7 |

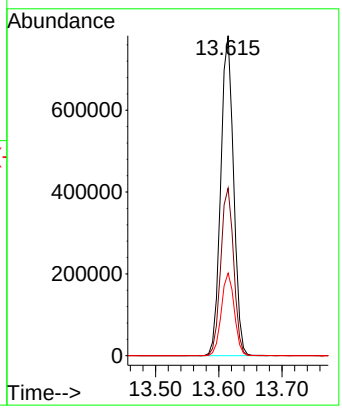





#89
n-Butylbenzene
Concen: 52.737 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 91 Resp: 109886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.8 | 26.9 | 80.7 |
| 134 | 25.9 | 13.2 | 39.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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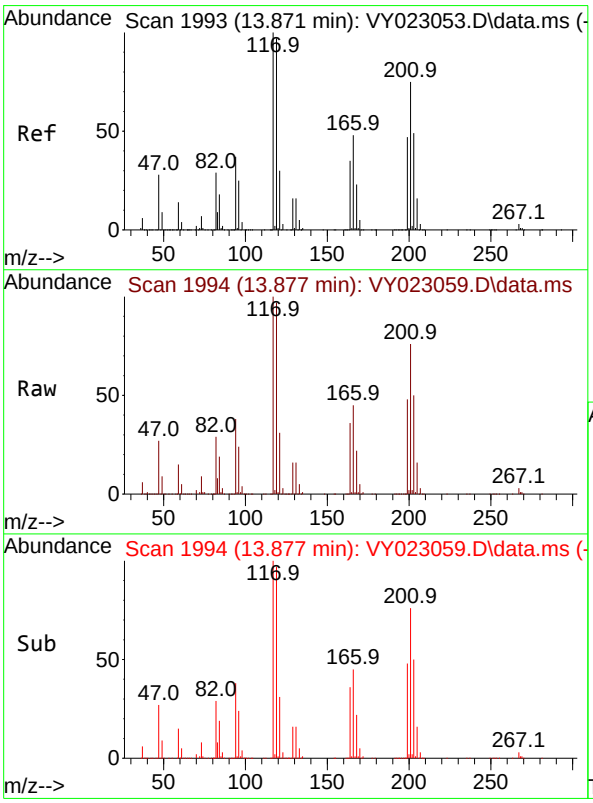
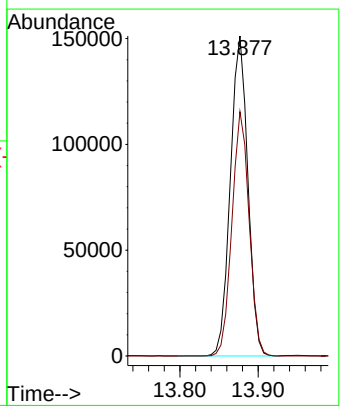
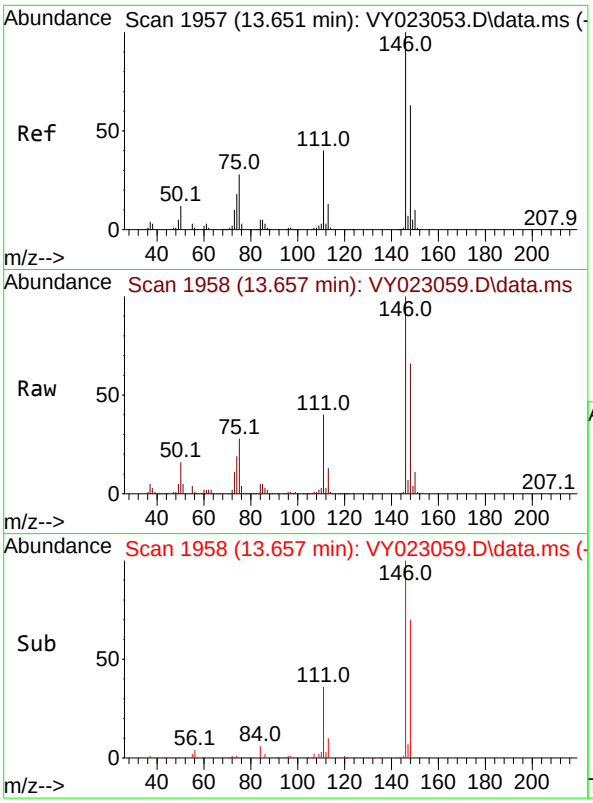



#90
Hexachloroethane
Concen: 50.439 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:117 Resp: 234252

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 75.0 | 38.4 | 115.1 |

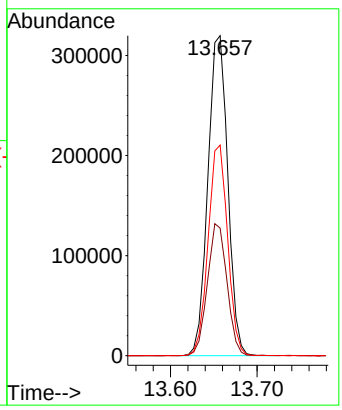





#91
1,2-Dichlorobenzene
Concen: 48.490 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:146 Resp: 50997

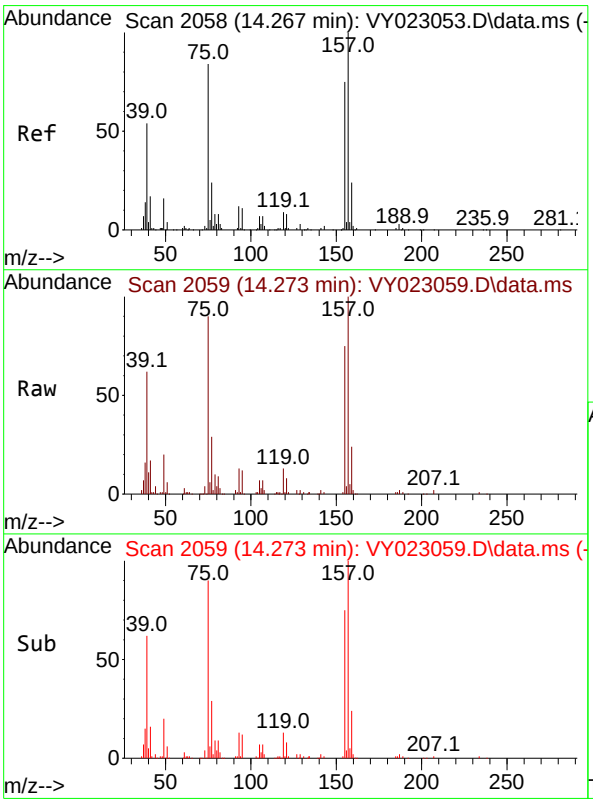
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.7 | 20.3 | 60.8 |
| 148 | 64.7 | 32.2 | 96.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

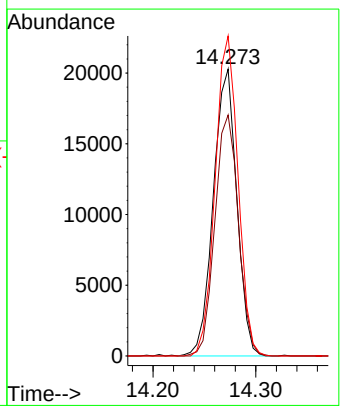
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

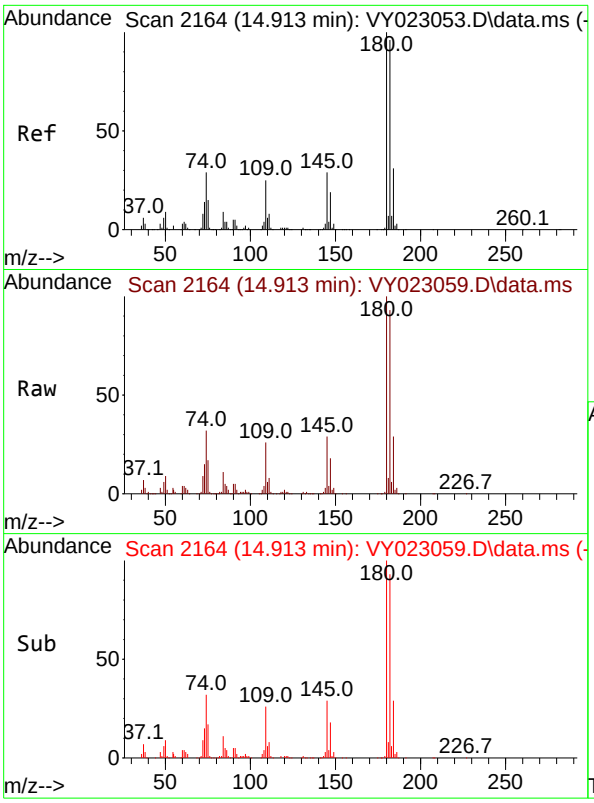



#92
1,2-Dibromo-3-Chloropropane
Concen: 47.451 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 75 Resp: 32155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 83.9 | 43.9 | 131.6 |
| 157 | 108.4 | 57.2 | 171.6 |

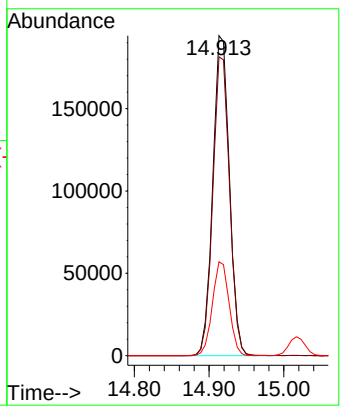





#93
1,2,4-Trichlorobenzene
Concen: 48.250 ug/l
RT: 14.913 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:180 Resp: 30008

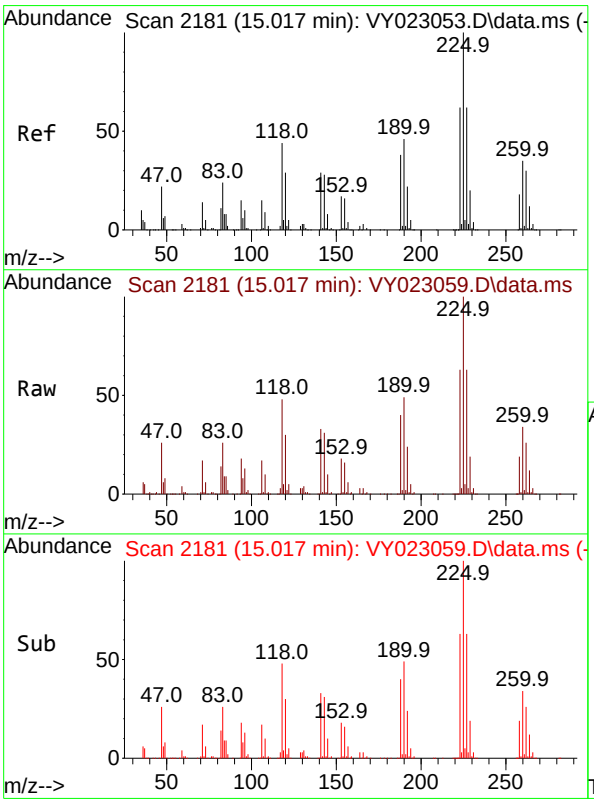
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.0 | 46.8 | 140.4 |
| 145 | 29.5 | 14.4 | 43.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

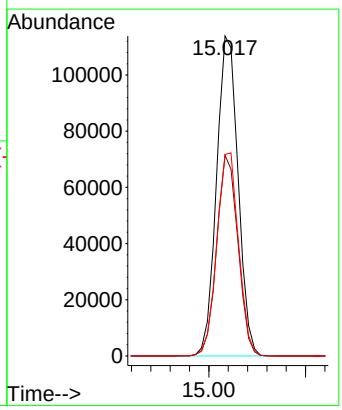
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

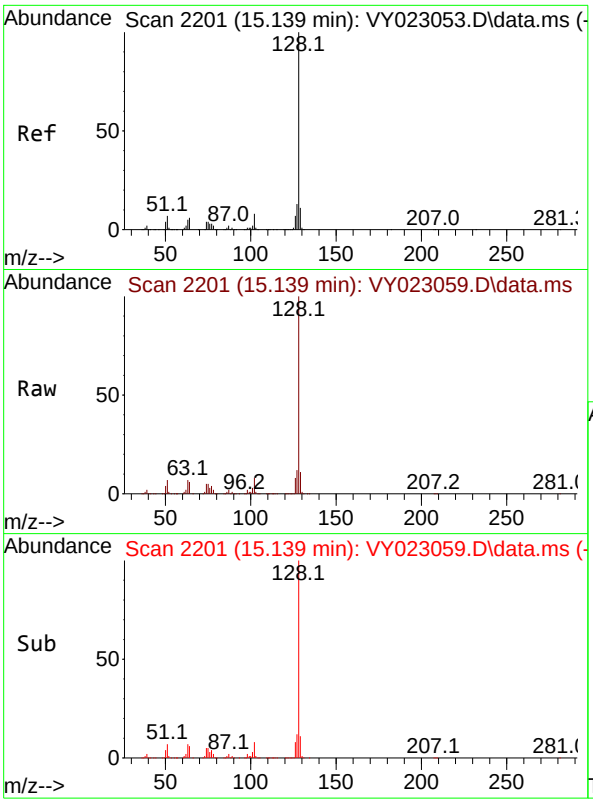



#94
Hexachlorobutadiene
Concen: 48.048 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:225 Resp: 175599

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.0 | 31.3 | 93.8 |
| 227 | 64.2 | 31.5 | 94.5 |

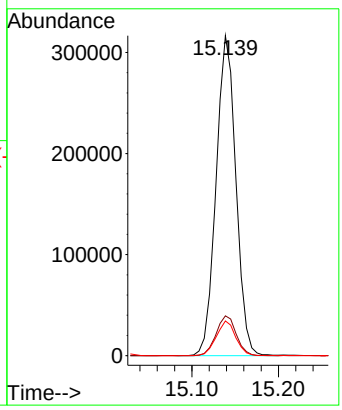





#95
Naphthalene
Concen: 47.413 ug/l
RT: 15.139 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:128 Resp: 50283

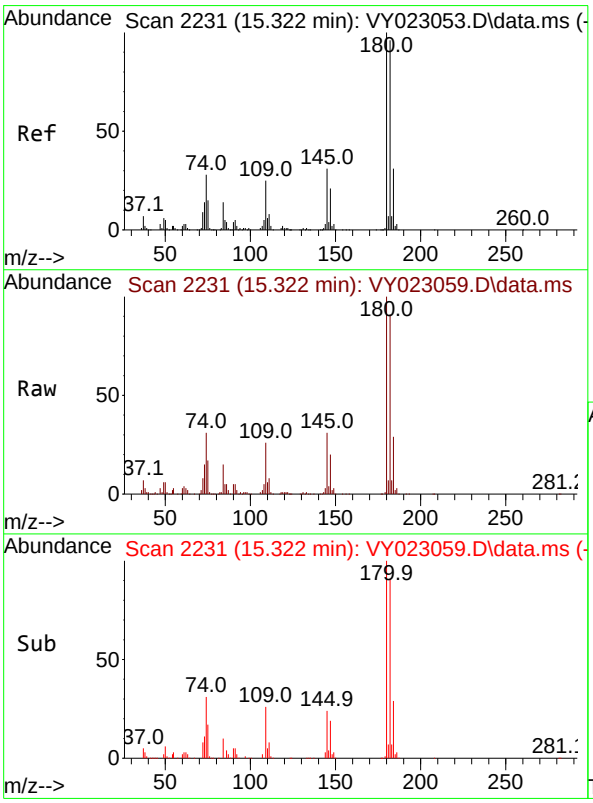
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.7 | 10.4 | 15.6 |
| 129 | 10.7 | 9.0 | 13.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

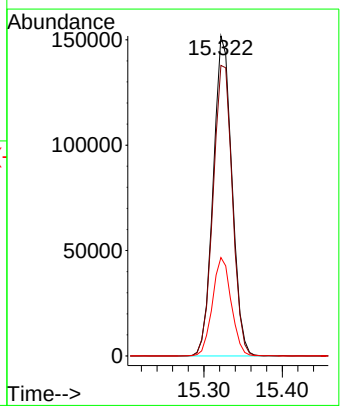
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025




#96
1,2,3-Trichlorobenzene
Concen: 47.023 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:180 Resp: 252008

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.7 | 47.9 | 143.7 |
| 145 | 30.9 | 15.9 | 47.7 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023059.D
Acq On : 13 Aug 2025 09:37
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Aug 14 01:19:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 99 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.408 | 0.335 | 17.9 | 95 | 0.00 |
| 3 | P | Chloromethane | 0.661 | 0.620 | 6.2 | 101 | 0.00 |
| 4 | C | Vinyl Chloride | 0.817 | 0.788 | 3.5# | 102 | 0.00 |
| 5 | T | Bromomethane | 0.610 | 0.575 | 5.7 | 106 | 0.00 |
| 6 | T | Chloroethane | 0.543 | 0.535 | 1.5 | 103 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.994 | 0.944 | 5.0 | 100 | 0.00 |
| 8 | T | Diethyl Ether | 0.263 | 0.239 | 9.1 | 95 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.490 | 0.465 | 5.1 | 100 | 0.00 |
| 10 | T | Methyl Iodide | 0.529 | 0.532 | -0.6 | 96 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.033 | 0.027 | 18.2 | 86 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.482 | 0.459 | 4.8# | 99 | 0.00 |
| 13 | T | Acrolein | 0.048 | 0.040 | 16.7 | 88 | 0.00 |
| 14 | T | Allyl chloride | 0.709 | 0.686 | 3.2 | 99 | 0.00 |
| 15 | T | Acrylonitrile | 0.107 | 0.097 | 9.3 | 91 | 0.00 |
| 16 | T | Acetone | 0.103 | 0.105 | -1.9 | 101 | 0.00 |
| 17 | T | Carbon Disulfide | 1.571 | 1.497 | 4.7 | 100 | 0.00 |
| 18 | T | Methyl Acetate | 0.307 | 0.256 | 16.6 | 79 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.249 | 1.158 | 7.3 | 93 | 0.00 |
| 20 | T | Methylene Chloride | 0.620 | 0.519 | 16.3 | 101 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.541 | 0.526 | 2.8 | 100 | 0.00 |
| 22 | T | Diisopropyl ether | 1.541 | 1.501 | 2.6 | 99 | 0.00 |
| 23 | T | Vinyl Acetate | 0.852 | 0.823 | 3.4 | 97 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 0.942 | 0.913 | 3.1 | 99 | 0.00 |
| 25 | T | 2-Butanone | 0.140 | 0.129 | 7.9 | 90 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.813 | 0.812 | 0.1 | 102 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.626 | 0.597 | 4.6 | 98 | 0.00 |
| 28 | T | Bromochloromethane | 0.374 | 0.368 | 1.6 | 100 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.087 | 0.078 | 10.3 | 89 | 0.00 |
| 30 | C | Chloroform | 0.971 | 0.932 | 4.0# | 98 | 0.00 |
| 31 | T | Cyclohexane | 0.888 | 0.821 | 7.5 | 100 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.862 | 0.841 | 2.4 | 100 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.477 | 0.476 | 0.2 | 102 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 99 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.299 | 0.301 | -0.7 | 101 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.445 | 0.432 | 2.9 | 98 | 0.00 |
| 37 | T | Ethyl Acetate | 0.187 | 0.169 | 9.6 | 89 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.483 | 0.472 | 2.3 | 100 | 0.00 |
| 39 | T | Methylcyclohexane | 0.586 | 0.575 | 1.9 | 100 | 0.00 |
| 40 | TM | Benzene | 1.370 | 1.334 | 2.6 | 99 | 0.00 |
| 41 | T | Methacrylonitrile | 0.108 | 0.098 | 9.3 | 88 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.356 | 0.340 | 4.5 | 97 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.378 | 0.349 | 7.7 | 92 | 0.00 |
| 44 | TM | Trichloroethene | 0.354 | 0.344 | 2.8 | 99 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.315 | 0.306 | 2.9# | 98 | 0.00 |
| 46 | T | Dibromomethane | 0.181 | 0.175 | 3.3 | 97 | 0.00 |
| 47 | T | Bromodichloromethane | 0.466 | 0.450 | 3.4 | 97 | 0.00 |
| 48 | T | Methyl methacrylate | 0.181 | 0.165 | 8.8 | 87 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023059.D
Acq On : 13 Aug 2025 09:37
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Aug 14 01:19:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 0.002 | 0.002 | 0.0 | 90 | 0.00 |
| 50 | S | Toluene-d8 | 1.169 | 1.200 | -2.7 | 104 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.195 | 0.181 | 7.2 | 90 | 0.00 |
| 52 | CM | Toluene | 0.870 | 0.864 | 0.7# | 99 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.422 | 0.410 | 2.8 | 96 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.499 | 0.485 | 2.8 | 97 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.242 | 0.224 | 7.4 | 93 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.310 | 0.299 | 3.5 | 92 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.411 | 0.389 | 5.4 | 95 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.146 | 0.144 | 1.4 | 92 | 0.00 |
| 59 | T | 2-Hexanone | 0.133 | 0.129 | 3.0 | 93 | 0.00 |
| 60 | T | Dibromochloromethane | 0.320 | 0.300 | 6.3 | 93 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.228 | 0.213 | 6.6 | 93 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.376 | 0.376 | 0.0 | 100 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 99 | 0.00 |
| 64 | T | Tetrachloroethene | 0.446 | 0.447 | -0.2 | 101 | 0.00 |
| 65 | PM | Chlorobenzene | 1.079 | 1.043 | 3.3 | 97 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.366 | 0.352 | 3.8 | 96 | 0.00 |
| 67 | C | Ethyl Benzene | 1.856 | 1.856 | 0.0 | 98 | 0.00 |
| 68 | T | m/p-Xylenes | 0.725 | 0.725 | 0.0 | 100 | 0.00 |
| 69 | T | o-Xylene | 0.679 | 0.681 | -0.3 | 98 | 0.00 |
| 70 | T | Styrene | 1.110 | 1.123 | -1.2 | 99 | 0.00 |
| 71 | P | Bromoform | 0.214 | 0.195 | 8.9 | 90 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 96 | 0.00 |
| 73 | T | Isopropylbenzene | 3.529 | 3.623 | -2.7 | 99 | 0.00 |
| 74 | T | N-amyl acetate | 0.748 | 0.747 | 0.1 | 93 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.603 | 0.553 | 8.3 | 90 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.483 | 0.470 | 2.7 | 84 | 0.00 |
| 77 | T | Bromobenzene | 0.842 | 0.822 | 2.4 | 95 | 0.00 |
| 78 | T | n-propylbenzene | 4.201 | 4.375 | -4.1 | 99 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.407 | 2.441 | -1.4 | 98 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.852 | 2.941 | -3.1 | 98 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.199 | 0.193 | 3.0 | 93 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.497 | 2.530 | -1.3 | 98 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.576 | 2.631 | -2.1 | 97 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.839 | 2.937 | -3.5 | 99 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.784 | 3.916 | -3.5 | 99 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.141 | 3.275 | -4.3 | 99 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.660 | 1.656 | 0.2 | 98 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.647 | 1.613 | 2.1 | 96 | 0.00 |
| 89 | T | n-Butylbenzene | 2.885 | 3.043 | -5.5 | 100 | 0.00 |
| 90 | T | Hexachloroethane | 0.643 | 0.649 | -0.9 | 98 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.456 | 1.412 | 3.0 | 95 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.094 | 0.089 | 5.3 | 90 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.861 | 0.831 | 3.5 | 94 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.506 | 0.486 | 4.0 | 95 | 0.00 |
| 95 | T | Naphthalene | 1.468 | 1.392 | 5.2 | 89 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023059.D
Acq On : 13 Aug 2025 09:37
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Aug 14 01:19:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 0.742 | 0.698 | 5.9 | 93 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 5

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023059.D
Acq On : 13 Aug 2025 09:37
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Aug 14 01:19:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 99 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 41.006 | 18.0 | 95 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 46.863 | 6.3 | 101 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 48.195 | 3.6# | 102 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 47.148 | 5.7 | 106 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 49.279 | 1.4 | 103 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 47.512 | 5.0 | 100 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 45.547 | 8.9 | 95 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 47.444 | 5.1 | 100 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 50.312 | -0.6 | 96 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 209.916 | 16.0 | 86 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 47.613 | 4.8# | 99 | 0.00 |
| 13 | T | Acrolein | 250.000 | 207.313 | 17.1 | 88 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 48.395 | 3.2 | 99 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 226.059 | 9.6 | 91 | 0.00 |
| 16 | T | Acetone | 250.000 | 253.265 | -1.3 | 101 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 47.654 | 4.7 | 100 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 41.723 | 16.6 | 79 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 46.387 | 7.2 | 93 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 48.260 | 3.5 | 101 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 48.558 | 2.9 | 100 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 48.705 | 2.6 | 99 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 241.571 | 3.4 | 97 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 48.480 | 3.0 | 99 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 229.361 | 8.3 | 90 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 49.978 | 0.0 | 102 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 47.671 | 4.7 | 98 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 49.222 | 1.6 | 100 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 224.929 | 10.0 | 89 | 0.00 |
| 30 | C | Chloroform | 50.000 | 47.994 | 4.0# | 98 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 46.262 | 7.5 | 100 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 48.765 | 2.5 | 100 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 49.931 | 0.1 | 102 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 99 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 50.227 | -0.5 | 101 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 48.533 | 2.9 | 98 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 45.366 | 9.3 | 89 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 48.841 | 2.3 | 100 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 49.119 | 1.8 | 100 | 0.00 |
| 40 | TM | Benzene | 50.000 | 48.666 | 2.7 | 99 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 45.492 | 9.0 | 88 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 47.637 | 4.7 | 97 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 46.179 | 7.6 | 92 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 48.551 | 2.9 | 99 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 48.591 | 2.8# | 98 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 48.268 | 3.5 | 97 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 48.276 | 3.4 | 97 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 45.747 | 8.5 | 87 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023059.D
Acq On : 13 Aug 2025 09:37
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Aug 14 01:19:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 1000.000 | 905.464 | 9.5 | 90 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 51.328 | -2.7 | 104 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 232.613 | 7.0 | 90 | 0.00 |
| 52 | CM | Toluene | 50.000 | 49.619 | 0.8# | 99 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 48.623 | 2.8 | 96 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 48.667 | 2.7 | 97 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 46.330 | 7.3 | 93 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 48.194 | 3.6 | 92 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 47.351 | 5.3 | 95 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 246.593 | 1.4 | 92 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 243.235 | 2.7 | 93 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 46.904 | 6.2 | 93 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 46.761 | 6.5 | 93 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 50.020 | -0.0 | 100 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 99 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 50.070 | -0.1 | 101 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 48.346 | 3.3 | 97 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 48.113 | 3.8 | 96 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 49.987 | 0.0# | 98 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 99.994 | 0.0 | 100 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 50.162 | -0.3 | 98 | 0.00 |
| 70 | T | Styrene | 50.000 | 50.595 | -1.2 | 99 | 0.00 |
| 71 | P | Bromoform | 50.000 | 45.557 | 8.9 | 90 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 96 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 51.327 | -2.7 | 99 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 49.922 | 0.2 | 93 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 45.905 | 8.2 | 90 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 48.654 | 2.7 | 84 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 48.794 | 2.4 | 95 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 52.061 | -4.1 | 99 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 50.703 | -1.4 | 98 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 51.563 | -3.1 | 98 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 48.354 | 3.3 | 93 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 50.659 | -1.3 | 98 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 51.072 | -2.1 | 97 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 51.723 | -3.4 | 99 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 51.748 | -3.5 | 99 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 52.130 | -4.3 | 99 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 49.866 | 0.3 | 98 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 48.956 | 2.1 | 96 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 52.737 | -5.5 | 100 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 50.439 | -0.9 | 98 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 48.490 | 3.0 | 95 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 47.451 | 5.1 | 90 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 48.250 | 3.5 | 94 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 48.048 | 3.9 | 95 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 47.413 | 5.2 | 89 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023059.D
Acq On : 13 Aug 2025 09:37
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Aug 14 01:19:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 47.023 | 6.0 | 93 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

## VOLATILE CONTINUING CALIBRATION CHECK

| | | | |
|---|---|---|---|
| Lab Name: | Alliance | Contract: | FIRS02 |
| Lab Code: | ACE | SDG No.: | Q2819 |
| Instrument ID: | MSVOA_Y | Calibration Date/Time: | 08/13/2025 20:00 |
| Lab File ID: | VY023082.D | Init. Calib. Date(s): | 08/12/2025 08/12/2025 |
| Heated Purge: (Y/N) | Y | Init. Calib. Time(s): | 14:54 16:47 |

GC Column: RXI-624 ID: 0.25 (mm)

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.408 | 0.319 | | -21.81 | 50 |
| Chloromethane | 0.661 | 0.681 | 0.1 | 3.03 | 50 |
| Vinyl Chloride | 0.817 | 0.849 | | 3.92 | 50 |
| Bromomethane | 0.610 | 0.682 | | 11.8 | 50 |
| Chloroethane | 0.543 | 0.596 | | 9.76 | 50 |
| Trichlorofluoromethane | 0.994 | 0.946 | | -4.83 | 50 |
| 1,1,2-Trichlorotrifluoroethane | 0.490 | 0.456 | | -6.94 | 50 |
| 1,1-Dichloroethene | 0.482 | 0.454 | | -5.81 | 50 |
| Acetone | 0.103 | 0.082 | | -20.39 | 50 |
| Carbon Disulfide | 1.571 | 1.489 | | -5.22 | 50 |
| Methyl tert-butyl Ether | 1.249 | 1.220 | | -2.32 | 50 |
| Methyl Acetate | 0.307 | 0.326 | | 6.19 | 50 |
| Methylene Chloride | 0.620 | 0.555 | | -10.48 | 50 |
| trans-1,2-Dichloroethene | 0.541 | 0.540 | | -0.19 | 50 |
| 1,1-Dichloroethane | 0.942 | 0.958 | 0.1 | 1.7 | 50 |
| Cyclohexane | 0.888 | 0.805 | | -9.35 | 50 |
| 2-Butanone | 0.140 | 0.126 | | -10 | 50 |
| Carbon Tetrachloride | 0.483 | 0.456 | | -5.59 | 50 |
| cis-1,2-Dichloroethene | 0.626 | 0.633 | | 1.12 | 50 |
| Bromochloromethane | 0.374 | 0.394 | | 5.35 | 50 |
| Chloroform | 0.971 | 0.998 | | 2.78 | 50 |
| 1,1,1-Trichloroethane | 0.862 | 0.850 | | -1.39 | 50 |
| Methylcyclohexane | 0.586 | 0.544 | | -7.17 | 50 |
| Benzene | 1.370 | 1.347 | | -1.68 | 50 |
| 1,2-Dichloroethane | 0.356 | 0.351 | | -1.4 | 50 |
| Trichloroethene | 0.354 | 0.339 | | -4.24 | 50 |
| 1,2-Dichloropropane | 0.315 | 0.316 | | 0.32 | 50 |
| Bromodichloromethane | 0.466 | 0.462 | | -0.86 | 50 |
| 4-Methyl-2-Pentanone | 0.195 | 0.184 | | -5.64 | 50 |
| Toluene | 0.870 | 0.868 | | -0.23 | 50 |
| t-1,3-Dichloropropene | 0.422 | 0.400 | | -5.21 | 50 |
| cis-1,3-Dichloropropene | 0.499 | 0.478 | | -4.21 | 50 |
| 1,1,2-Trichloroethane | 0.242 | 0.234 | | -3.31 | 50 |
| 2-Hexanone | 0.133 | 0.122 | | -8.27 | 50 |
| Dibromochloromethane | 0.320 | 0.313 | | -2.19 | 50 |
| 1,2-Dibromoethane | 0.228 | 0.222 | | -2.63 | 50 |
| Tetrachloroethene | 0.446 | 0.442 | | -0.9 | 50 |
| Chlorobenzene | 1.079 | 1.048 | 0.3 | -2.87 | 50 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

## VOLATILE CONTINUING CALIBRATION CHECK

| | | | |
|---|---|---|---|
| Lab Name: | Alliance | Contract: | FIRS02 |
| Lab Code: | ACE | SDG No.: | Q2819 |
| Instrument ID: | MSVOA_Y | Calibration Date/Time: | 08/13/2025 20:00 |
| Lab File ID: | VY023082.D | Init. Calib. Date(s): | 08/12/2025 08/12/2025 |
| Heated Purge: (Y/N) | Y | Init. Calib. Time(s): | 14:54 16:47 |

GC Column: RXI-624 ID: 0.25 (mm)

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Ethyl Benzene | 1.856 | 1.805 | | -2.75 | 50 |
| m/p-Xylenes | 0.725 | 0.711 | | -1.93 | 50 |
| o-Xylene | 0.679 | 0.670 | | -1.33 | 50 |
| Styrene | 1.110 | 1.135 | | 2.25 | 50 |
| Bromoform | 0.214 | 0.196 | 0.1 | -8.41 | 50 |
| Isopropylbenzene | 3.529 | 3.316 | | -6.04 | 50 |
| 1,1,2,2-Tetrachloroethane | 0.603 | 0.538 | 0.3 | -10.78 | 50 |
| 1,3-Dichlorobenzene | 1.660 | 1.561 | | -5.96 | 50 |
| 1,4-Dichlorobenzene | 1.647 | 1.530 | | -7.1 | 50 |
| 1,2-Dichlorobenzene | 1.456 | 1.362 | | -6.46 | 50 |
| 1,2-Dibromo-3-Chloropropane | 0.094 | 0.085 | | -9.57 | 50 |
| 1,2,4-Trichlorobenzene | 0.861 | 0.749 | | -13.01 | 50 |
| 1,2,3-Trichlorobenzene | 0.742 | 0.640 | | -13.75 | 50 |
| 1,2-Dichloroethane-d4 | 0.477 | 0.490 | | 2.72 | 50 |
| Dibromofluoromethane | 0.299 | 0.298 | | -0.33 | 50 |
| Toluene-d8 | 1.169 | 1.161 | | -0.68 | 50 |
| 4-Bromofluorobenzene | 0.376 | 0.379 | | 0.8 | 50 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023082.D
Acq On : 13 Aug 2025 20:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Aug 14 03:01:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 442938 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.609 | 114 | 730611 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 653170 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 337955 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 217167 | 51.443 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 102.880% | | | |
| 35) Dibromofluoromethane | 7.628 | 113 | 218038 | 49.874 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 99.740% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 848458 | 49.680 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 99.360% | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 277110 | 50.453 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 100.900% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 141385 | 39.105 | ug/l | 97 |
| 3) Chloromethane | 2.068 | 50 | 301762 | 51.531 | ug/l | 97 |
| 4) Vinyl Chloride | 2.202 | 62 | 376058 | 51.951 | ug/l | 98 |
| 5) Bromomethane | 2.592 | 94 | 302117 | 55.884 | ug/l | 99 |
| 6) Chloroethane | 2.732 | 64 | 263860 | 54.827 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.049 | 101 | 418963 | 47.599 | ug/l | 98 |
| 8) Diethyl Ether | 3.458 | 74 | 110091 | 47.275 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 3.811 | 101 | 201980 | 46.513 | ug/l | 100 |
| 10) Methyl Iodide | 4.000 | 142 | 222876 | 47.564 | ug/l | 98 |
| 11) Tert butyl alcohol | 4.860 | 59 | 63163 | 218.366 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 201251 | 47.150 | ug/l | 96 |
| 13) Acrolein | 3.653 | 56 | 74262 | 175.306 | ug/l | 96 |
| 14) Allyl chloride | 4.378 | 41 | 299858 | 47.744 | ug/l | 99 |
| 15) Acrylonitrile | 5.055 | 53 | 229299 | 242.199 | ug/l | 99 |
| 16) Acetone | 3.872 | 43 | 181474 | 198.426 | ug/l | 95 |
| 17) Carbon Disulfide | 4.104 | 76 | 659370 | 47.377 | ug/l | 98 |
| 18) Methyl Acetate | 4.385 | 43 | 144547 | 53.111 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 540452 | 48.863 | ug/l | 98 |
| 20) Methylene Chloride | 4.610 | 84 | 245813 | 51.824 | ug/l | 99 |
| 21) trans-1,2-Dichloroethene | 5.110 | 96 | 239199 | 49.867 | ug/l | 98 |
| 22) Diisopropyl ether | 6.018 | 45 | 695381 | 50.952 | ug/l | 98 |
| 23) Vinyl Acetate | 5.957 | 43 | 1789905 | 237.183 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.909 | 63 | 424330 | 50.854 | ug/l | 100 |
| 25) 2-Butanone | 6.890 | 43 | 279864 | 224.999 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 314878 | 43.733 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 280376 | 50.561 | ug/l | 98 |
| 28) Bromochloromethane | 7.244 | 49 | 174333 | 52.662 | ug/l | 97 |
| 29) Tetrahydrofuran | 7.256 | 42 | 183892 | 238.509 | ug/l | 98 |
| 30) Chloroform | 7.421 | 83 | 441927 | 51.354 | ug/l | 98 |
| 31) Cyclohexane | 7.701 | 56 | 356707 | 45.365 | ug/l | 100 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 376634 | 49.325 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 308332 | 47.457 | ug/l | 99 |
| 37) Ethyl Acetate | 6.982 | 43 | 121535 | 44.531 | ug/l | 100 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 333012 | 47.191 | ug/l | 98 |
| 39) Methylcyclohexane | 9.103 | 83 | 397504 | 46.461 | ug/l | 99 |
| 40) Benzene | 8.079 | 78 | 984401 | 49.159 | ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023082.D
Acq On : 13 Aug 2025 20:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Aug 14 03:01:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.219 | 41 | 78770m | 50.010 | ug/l | | |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 256723 | 49.294 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.195 | 43 | 254100 | 46.064 | ug/l | | 98 |
| 44) Trichloroethene | 8.859 | 130 | 247693 | 47.865 | ug/l | | 98 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 231080 | 50.153 | ug/l | | 100 |
| 46) Dibromomethane | 9.225 | 93 | 131895 | 49.874 | ug/l | | 96 |
| 47) Bromodichloromethane | 9.420 | 83 | 337254 | 49.561 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.219 | 41 | 122447 | 46.388 | ug/l | | 96 |
| 49) 1,4-Dioxane | 9.225 | 88 | 29363 | 946.941 | ug/l | | 95 |
| 51) 4-Methyl-2-Pentanone | 9.993 | 43 | 670681 | 235.707 | ug/l | | 99 |
| 52) Toluene | 10.164 | 92 | 634517 | 49.890 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 292128 | 47.408 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 348886 | 47.881 | ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 10.566 | 97 | 171270 | 48.399 | ug/l | | 99 |
| 56) Ethyl methacrylate | 10.438 | 69 | 218091 | 48.164 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 294300 | 49.039 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 563277 | 263.718 | ug/l | | 100 |
| 59) 2-Hexanone | 10.755 | 43 | 444743 | 229.542 | ug/l | | 99 |
| 60) Dibromochloromethane | 10.908 | 129 | 228588 | 48.956 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.011 | 107 | 162363 | 48.817 | ug/l | | 98 |
| 64) Tetrachloroethene | 10.646 | 164 | 288562 | 49.476 | ug/l | | 99 |
| 65) Chlorobenzene | 11.438 | 112 | 684648 | 48.595 | ug/l | | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 11.511 | 131 | 232459 | 48.615 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.517 | 91 | 1179134 | 48.633 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 928592 | 98.062 | ug/l | | 99 |
| 69) o-Xylene | 11.950 | 106 | 437649 | 49.346 | ug/l | | 98 |
| 70) Styrene | 11.962 | 104 | 741269 | 51.107 | ug/l | | 99 |
| 71) Bromoform | 12.127 | 173 | 128021 | 45.809 | ug/l | # | 97 |
| 73) Isopropylbenzene | 12.249 | 105 | 1120808 | 46.989 | ug/l | | 99 |
| 74) N-amyl acetate | 12.066 | 43 | 227982 | 45.070 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.499 | 83 | 181898 | 44.662 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.548 | 75 | 147973m | 45.368 | ug/l | | |
| 77) Bromobenzene | 12.523 | 156 | 261080 | 45.880 | ug/l | | 98 |
| 78) n-propylbenzene | 12.590 | 91 | 1351965 | 47.608 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 768315 | 47.220 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.731 | 105 | 925355 | 48.002 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.298 | 75 | 55874 | 41.468 | ug/l | | 99 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 801214 | 47.468 | ug/l | | 100 |
| 83) tert-Butylbenzene | 12.993 | 119 | 810256 | 46.538 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.035 | 105 | 927586 | 48.337 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.170 | 105 | 1204282 | 47.086 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.285 | 119 | 1019726 | 48.033 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.279 | 146 | 527390 | 46.997 | ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 13.359 | 146 | 517037 | 46.447 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.615 | 91 | 926009 | 47.492 | ug/l | | 99 |
| 90) Hexachloroethane | 13.877 | 117 | 207292 | 47.698 | ug/l | | 97 |
| 91) 1,2-Dichlorobenzene | 13.651 | 146 | 460225 | 46.764 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.267 | 75 | 28670 | 45.213 | ug/l | | 95 |
| 93) 1,2,4-Trichlorobenzene | 14.913 | 180 | 253171 | 43.501 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.017 | 225 | 143600 | 41.989 | ug/l | | 98 |
| 95) Naphthalene | 15.139 | 128 | 459045 | 46.256 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.322 | 180 | 216348 | 43.140 | ug/l | | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023082.D
Acq On : 13 Aug 2025 20:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Aug 14 03:01:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023082.D
Acq On : 13 Aug 2025 20:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Aug 14 03:01:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

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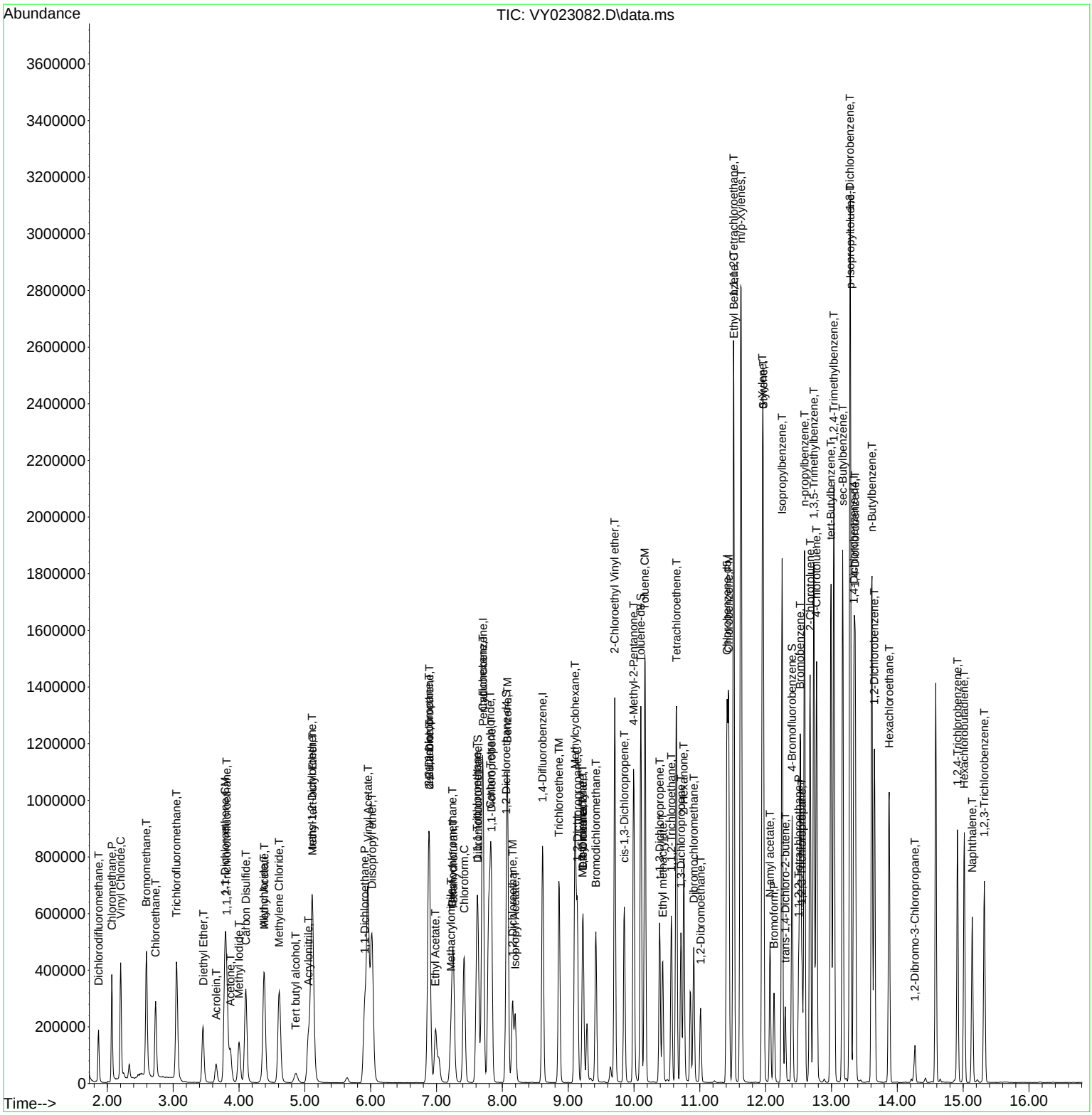
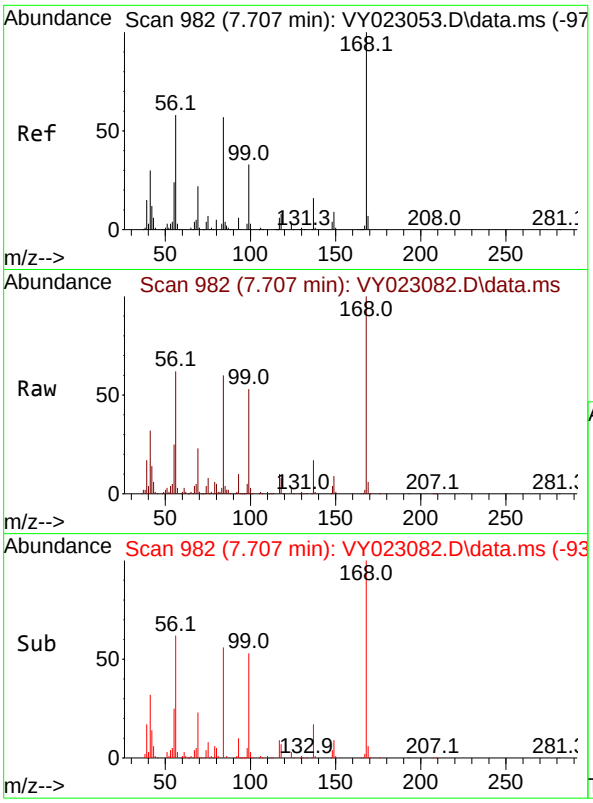
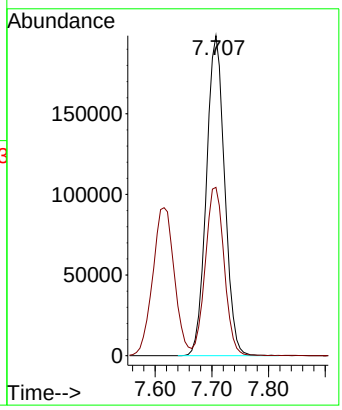





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:168 Resp: 44293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 52.5 | 42.8 | 64.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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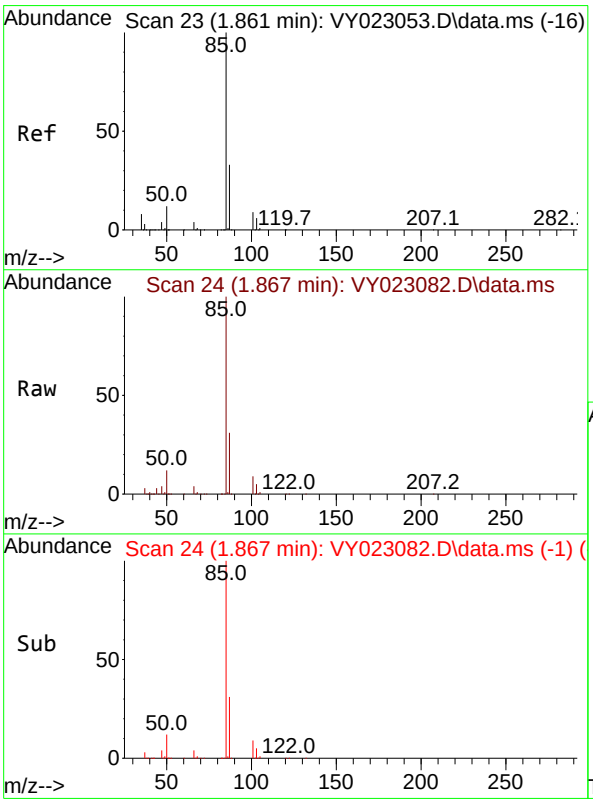
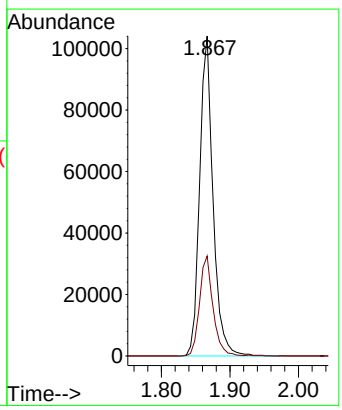
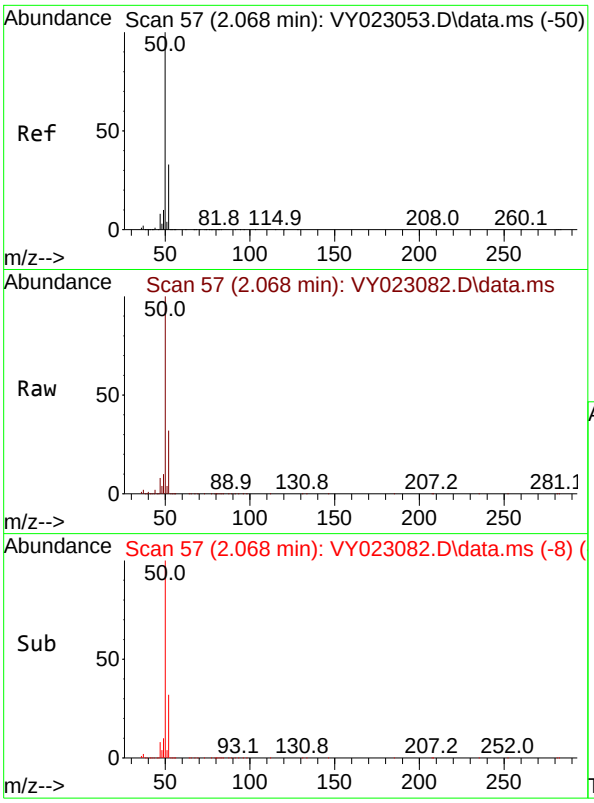



#2
Dichlorodifluoromethane
Concen: 39.105 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 85 Resp: 141385

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.3 | 16.6 | 49.8 |






#3
Chloromethane
Concen: 51.531 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 50 Resp: 30176

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.0 | 26.7 | 40.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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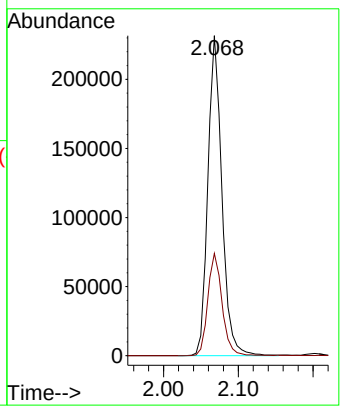
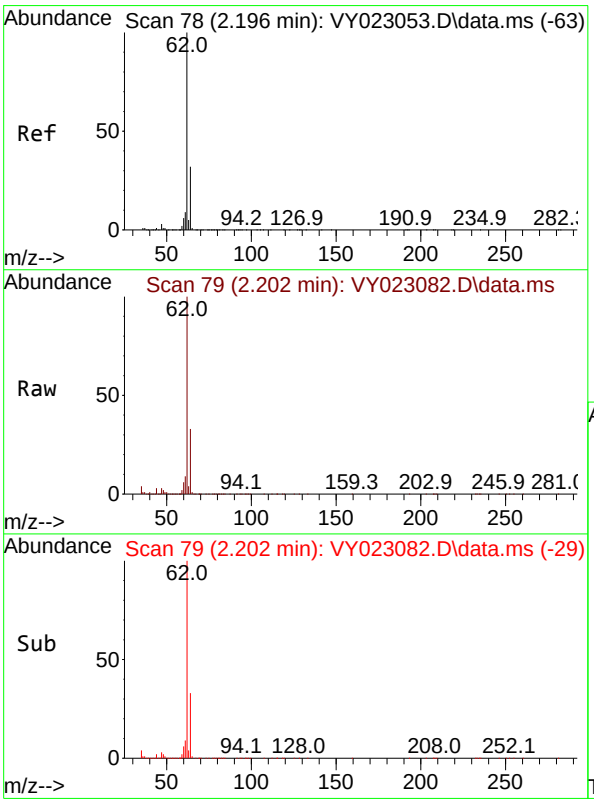
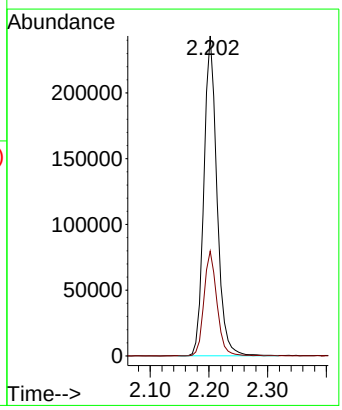


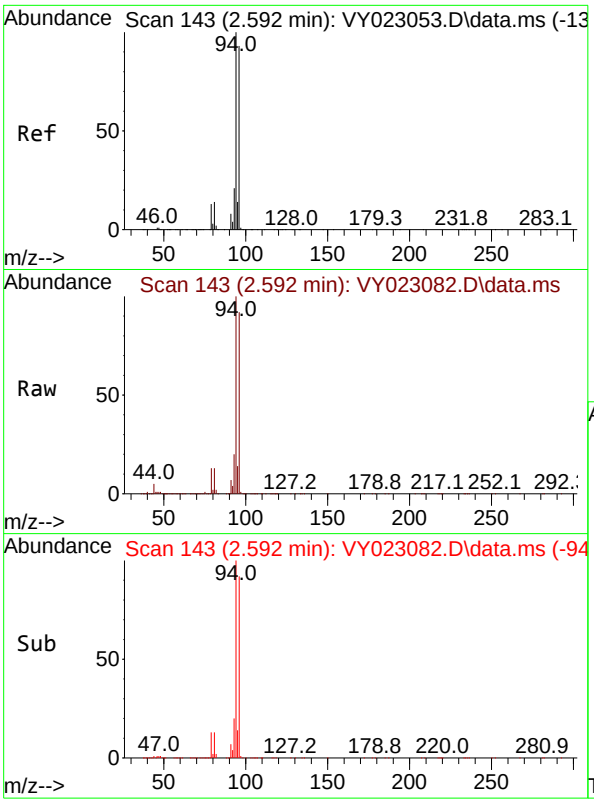




#4
Vinyl Chloride
Concen: 51.951 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 62 Resp: 376058

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.7 | 25.4 | 38.0 |






#5
Bromomethane
Concen: 55.884 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 94 Resp: 30211

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 92.2 | 74.6 | 112.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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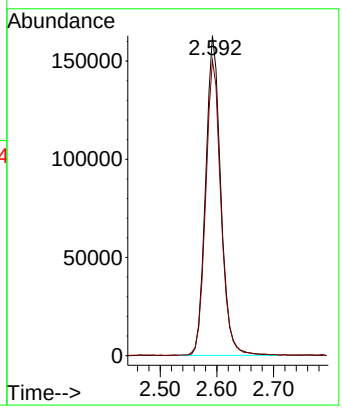
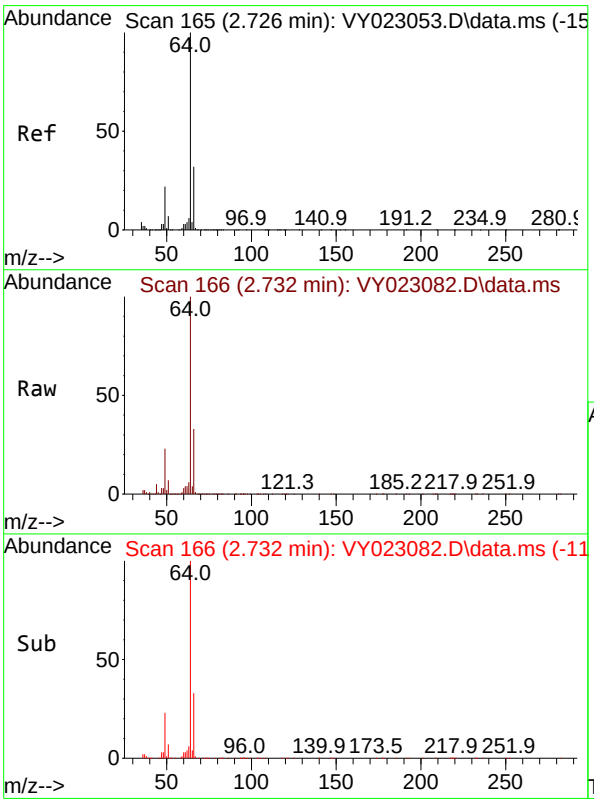
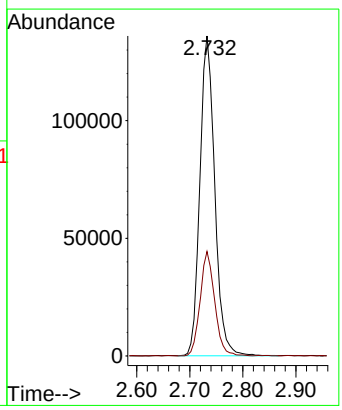


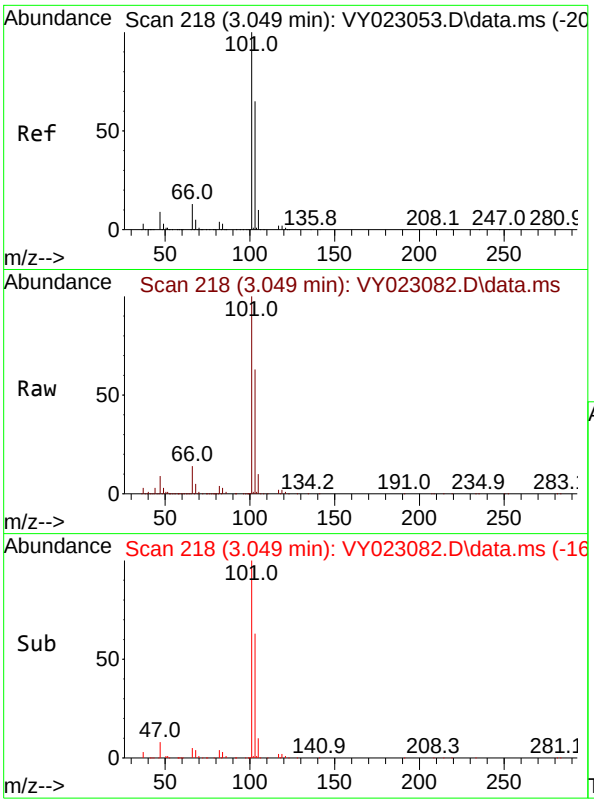




#6
Chloroethane
Concen: 54.827 ug/l
RT: 2.732 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 64 Resp: 263860

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.6 | 25.8 | 38.6 |

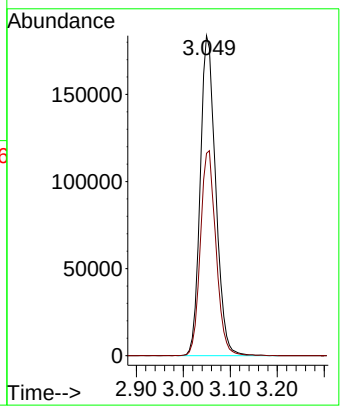





#7
Trichlorofluoromethane
Concen: 47.599 ug/l
RT: 3.049 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:101 Resp: 41896

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.3 | 51.9 | 77.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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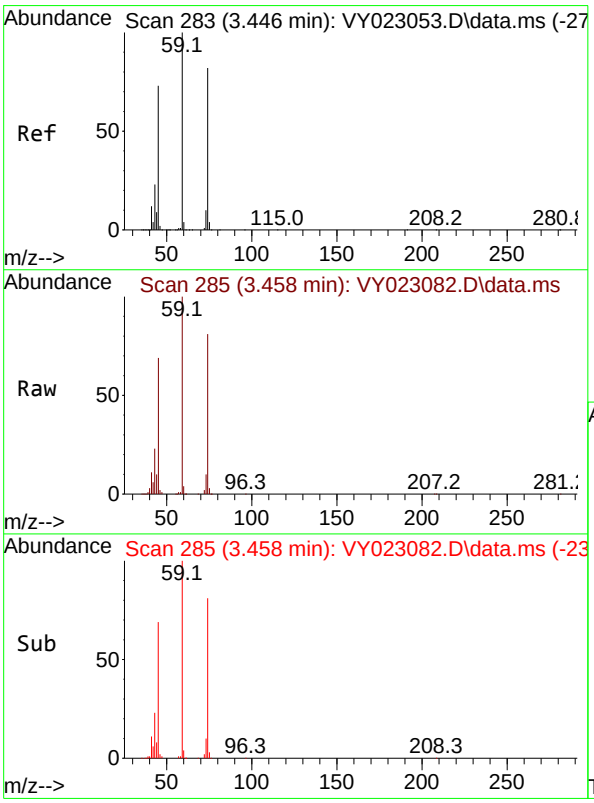
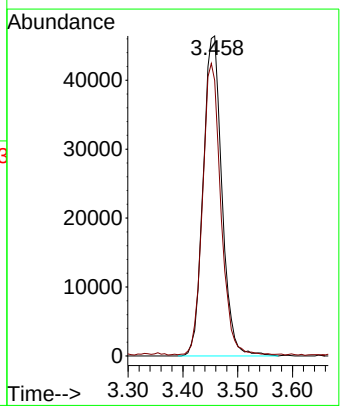
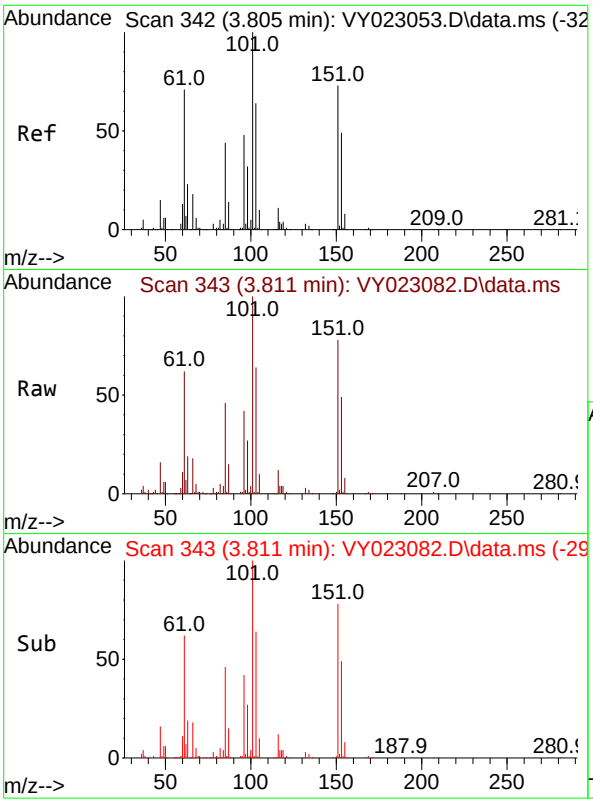



#8
Diethyl Ether
Concen: 47.275 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.012 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 74 Resp: 110091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 88.4 | 44.4 | 133.2 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 46.513 ug/l
RT: 3.811 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:101 Resp: 20198

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 45.8 | 36.3 | 54.5 |
| 151 | 76.7 | 61.5 | 92.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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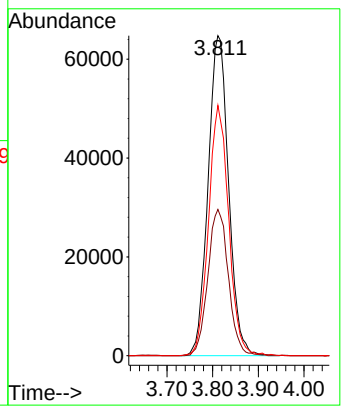
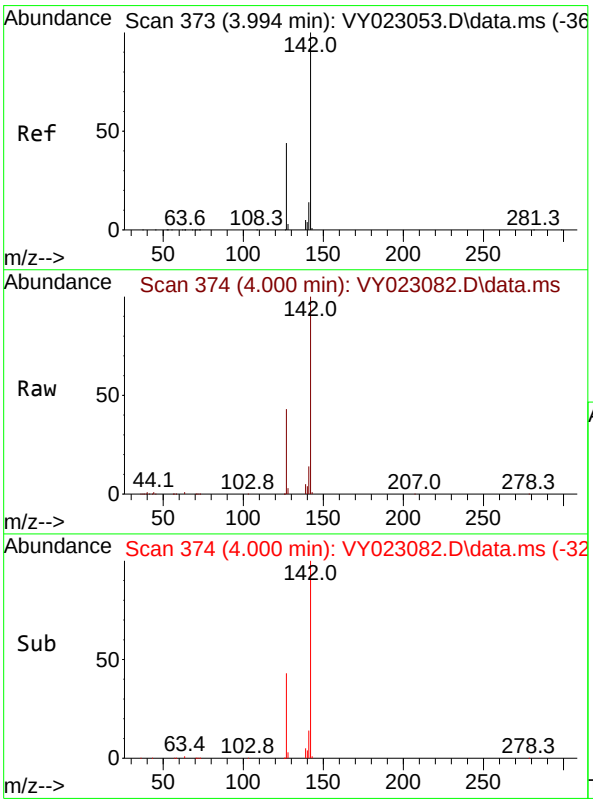
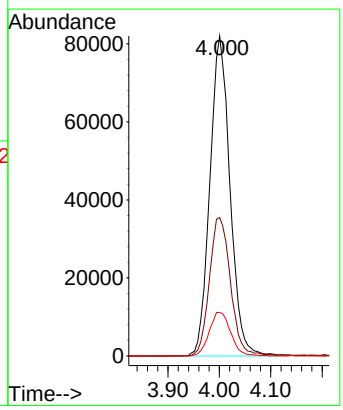


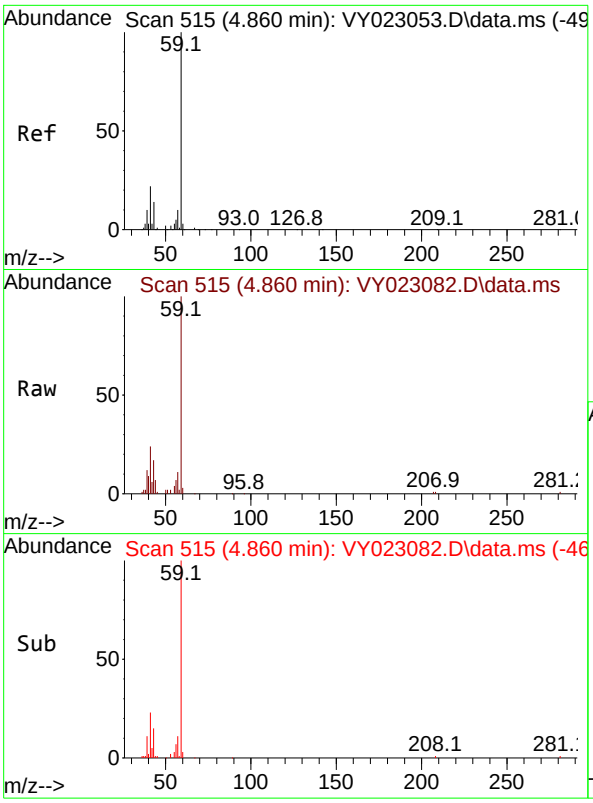




#10
Methyl Iodide
Concen: 47.564 ug/l
RT: 4.000 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:142 Resp: 222876

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 45.4 | 34.9 | 52.3 |
| 141 | 14.6 | 11.3 | 16.9 |

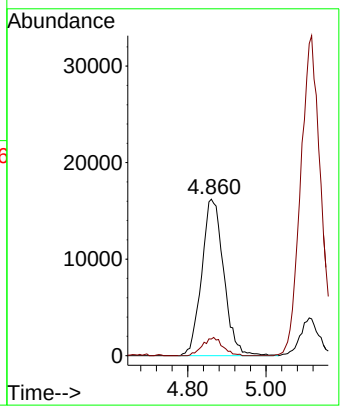





#11
Tert butyl alcohol
Concen: 218.366 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 59 Resp: 6316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.6 | 8.6 | 13.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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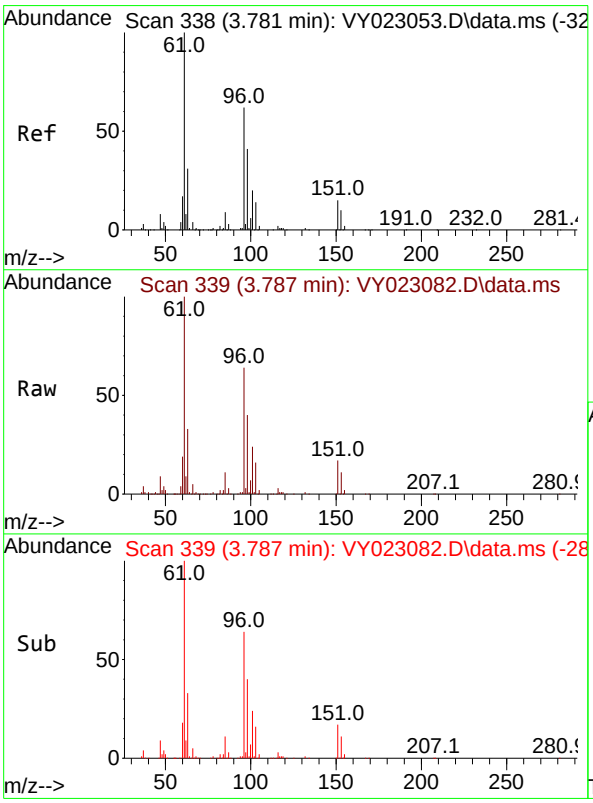
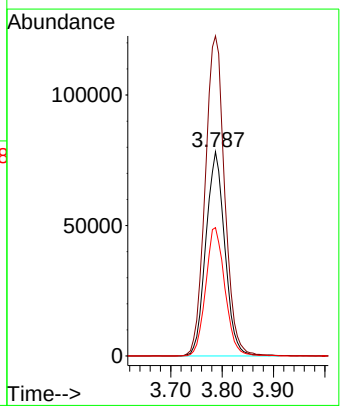
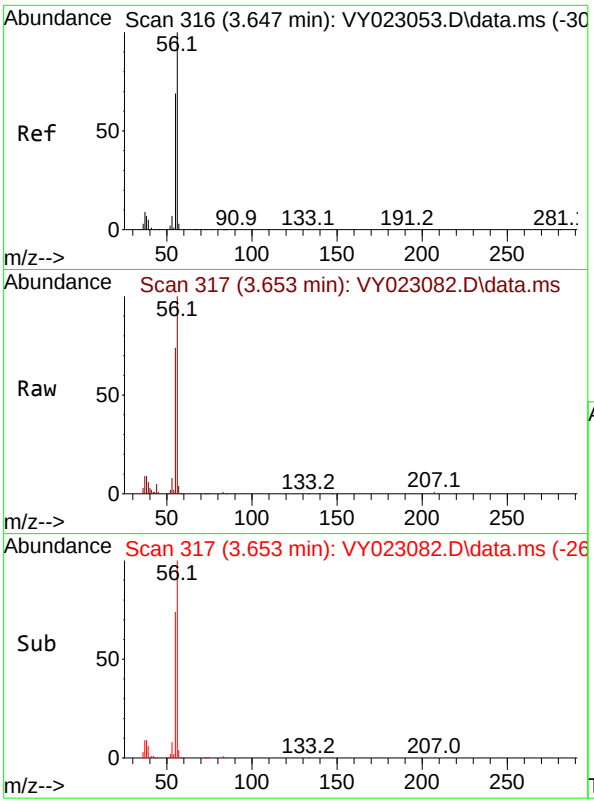



#12
1,1-Dichloroethene
Concen: 47.150 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 96 Resp: 201251

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 156.7 | 129.4 | 194.2 |
| 98 | 62.9 | 52.8 | 79.2 |






#13
Acrolein
Concen: 175.306 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 56 Resp: 7426

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 72.1 | 55.2 | 82.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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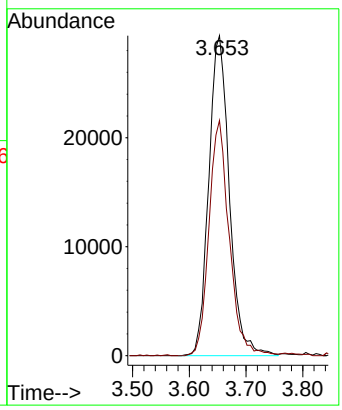
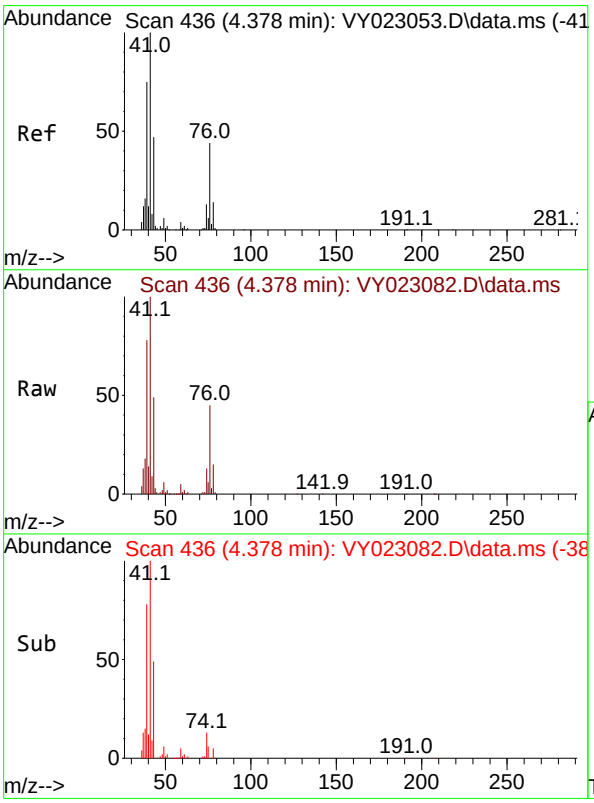
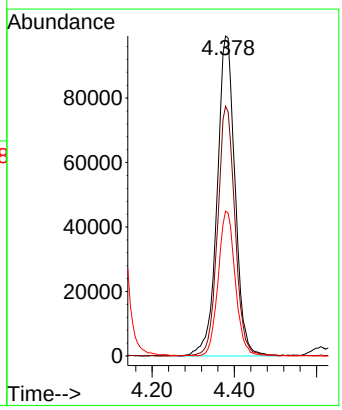


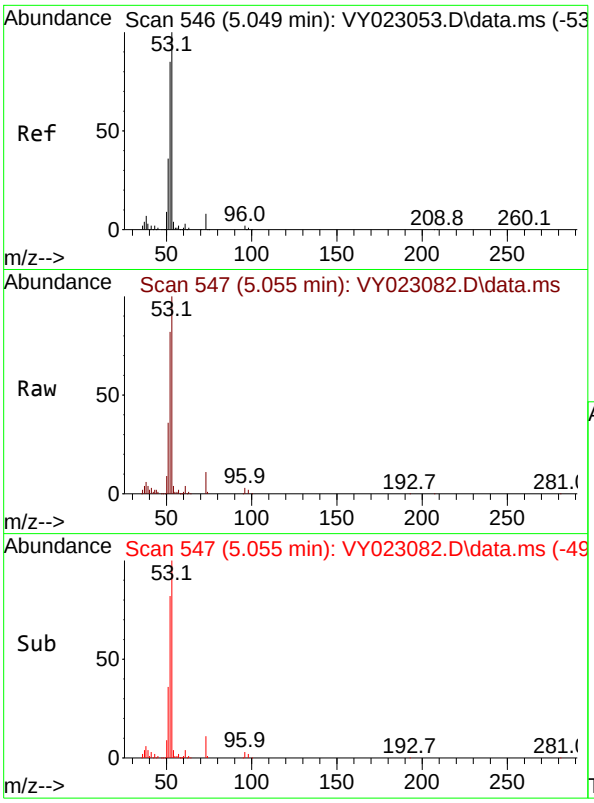




#14
Allyl chloride
Concen: 47.744 ug/l
RT: 4.378 min Scan# 436
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 41 Resp: 299858

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 75.7 | 59.8 | 89.6 |
| 76 | 43.3 | 33.7 | 50.5 |






#15
Acrylonitrile
Concen: 242.199 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 53 Resp: 22929

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 80.1 | 65.3 | 97.9 |
| 51 | 36.6 | 29.5 | 44.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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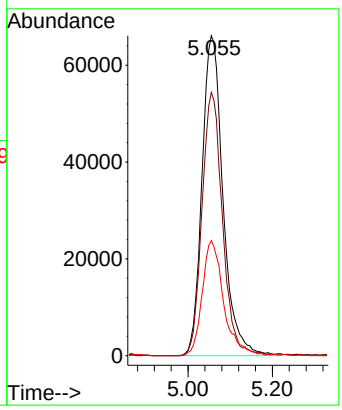
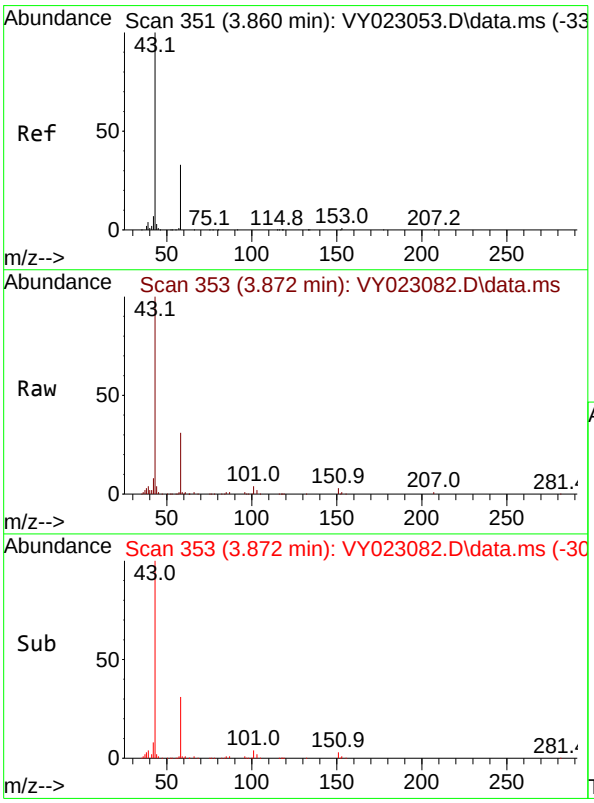
Supervised By :Semsettin Yesilyurt 08/19/2025

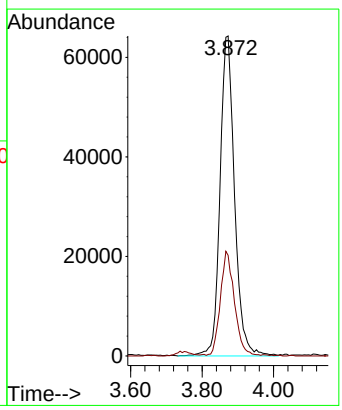


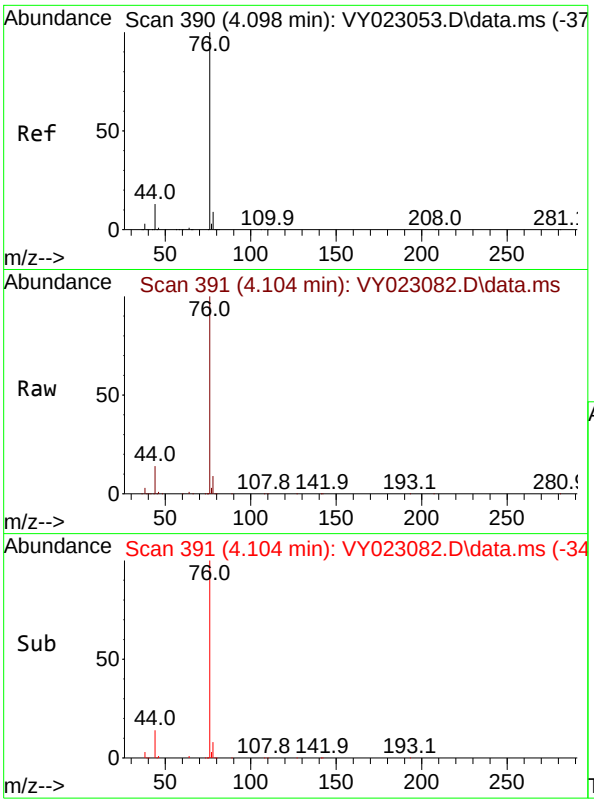




#16
Acetone
Concen: 198.426 ug/l
RT: 3.872 min Scan# 353
Delta R.T. 0.012 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 43 Resp: 181474

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.2 | 27.1 | 40.7 |

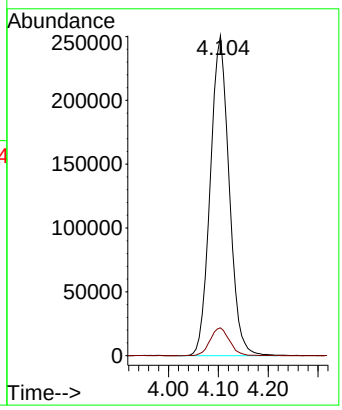





#17
Carbon Disulfide
Concen: 47.377 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 76 Resp: 65937

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.7 | 7.4 | 11.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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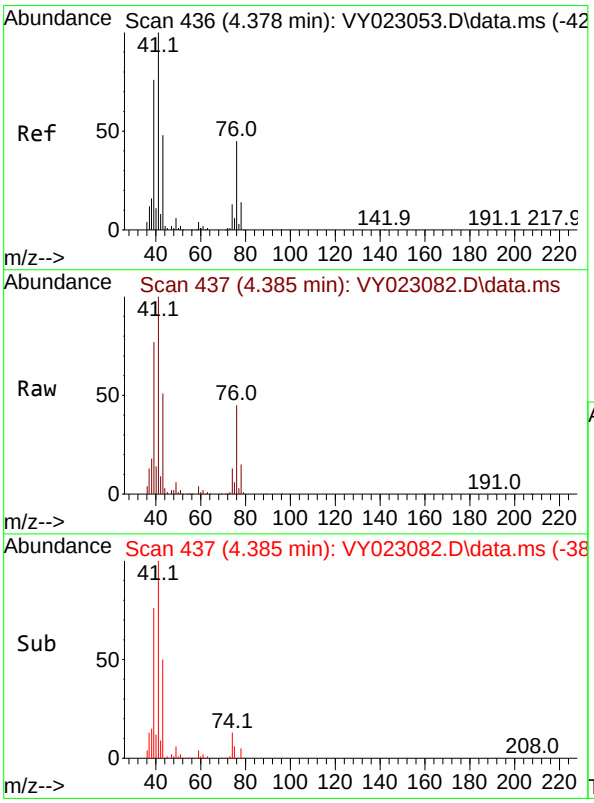
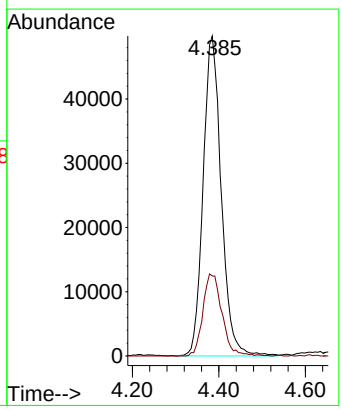
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

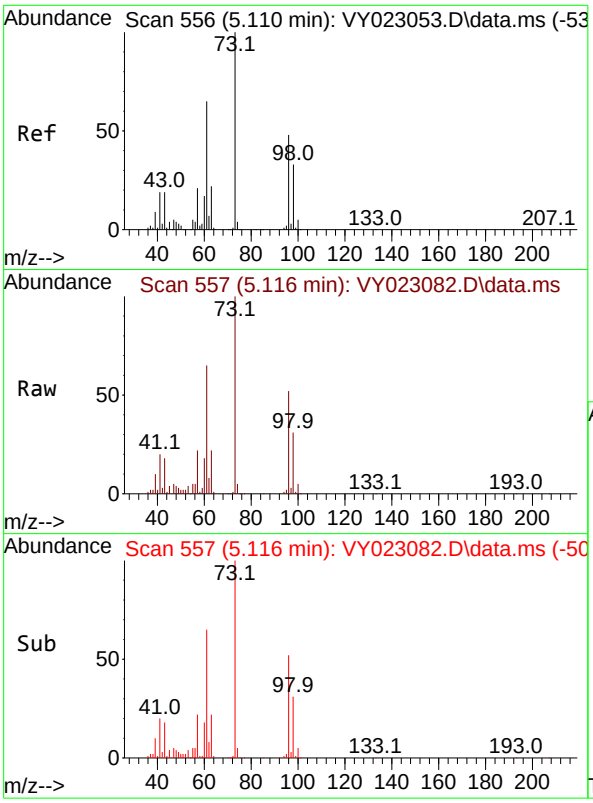



#18
Methyl Acetate
Concen: 53.111 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 43 Resp: 144547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 26.9 | 21.2 | 31.8 |

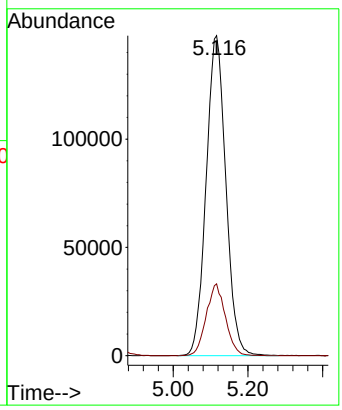





#19
Methyl tert-butyl Ether
Concen: 48.863 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 73 Resp: 54045

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.4 | 17.1 | 25.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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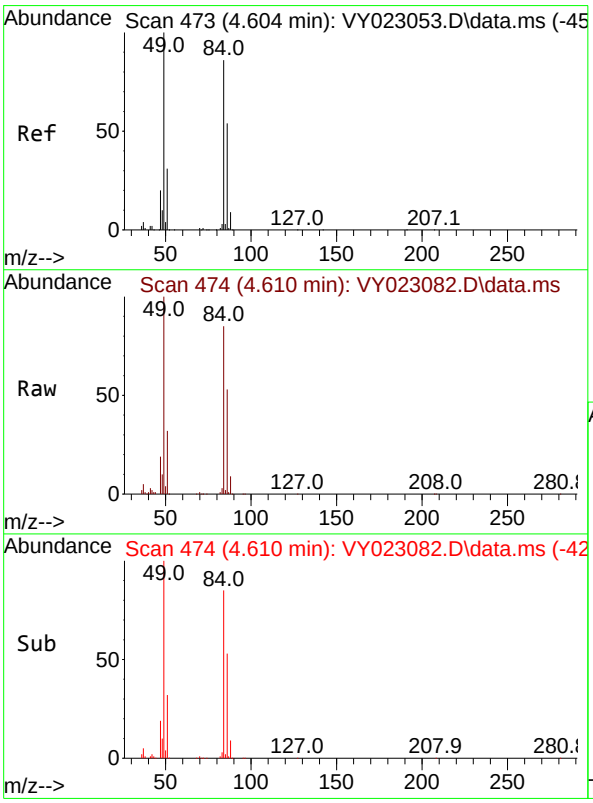
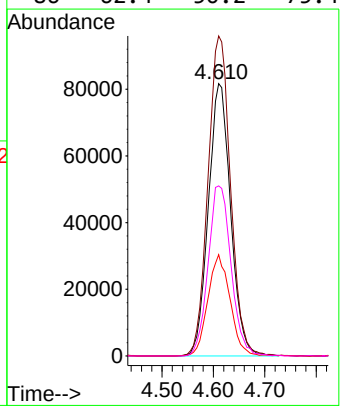
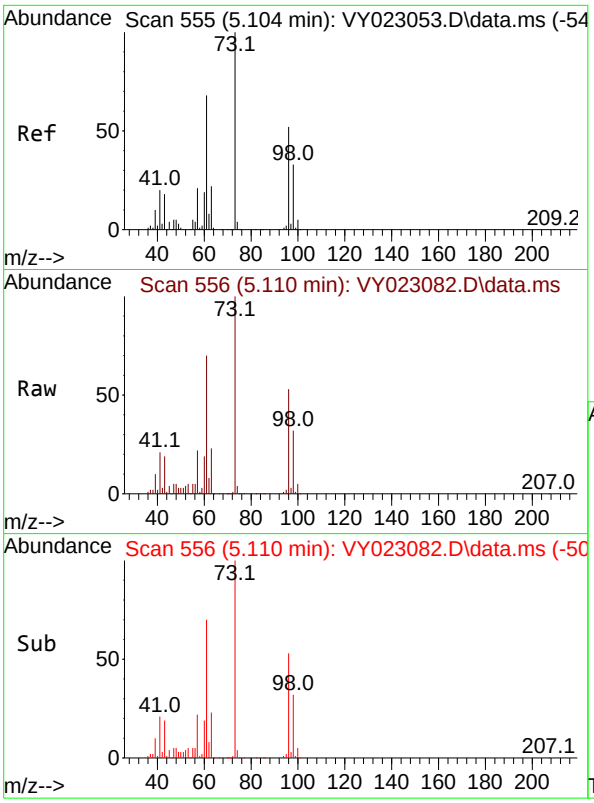



#20
Methylene Chloride
Concen: 51.824 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 84 Resp: 245813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 117.4 | 93.0 | 139.6 |
| 51 | 37.1 | 29.0 | 43.4 |
| 86 | 62.4 | 50.2 | 75.4 |

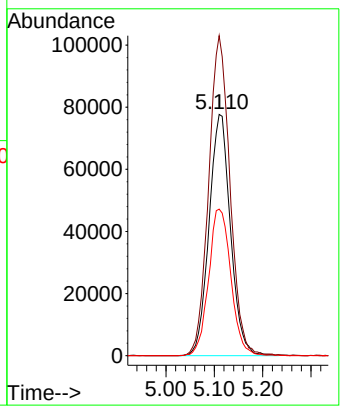





#21
trans-1,2-Dichloroethene
Concen: 49.867 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 96 Resp: 23919

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 132.6 | 104.8 | 157.2 |
| 98 | 60.7 | 50.1 | 75.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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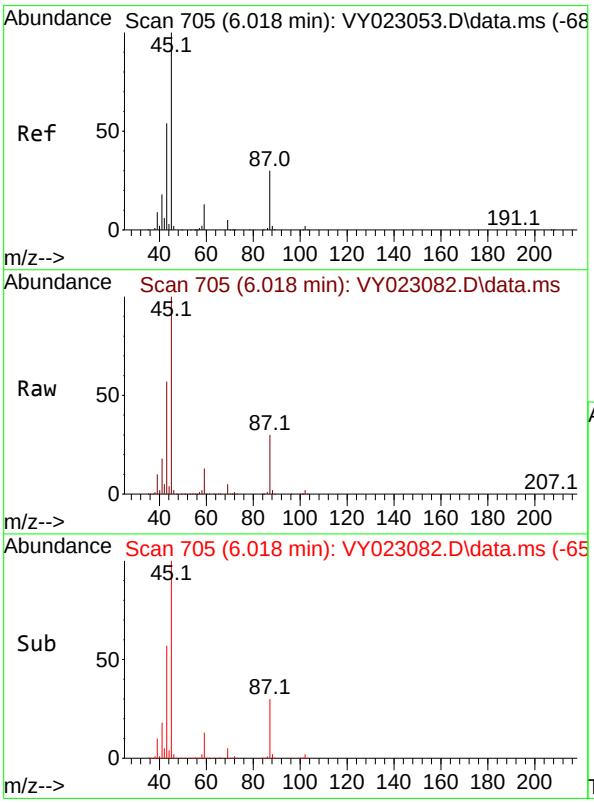
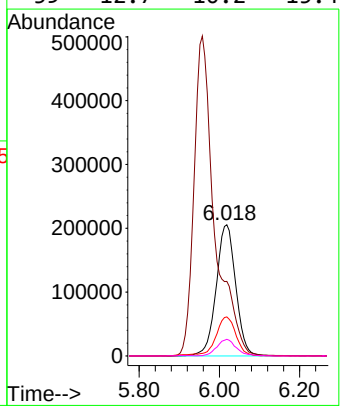
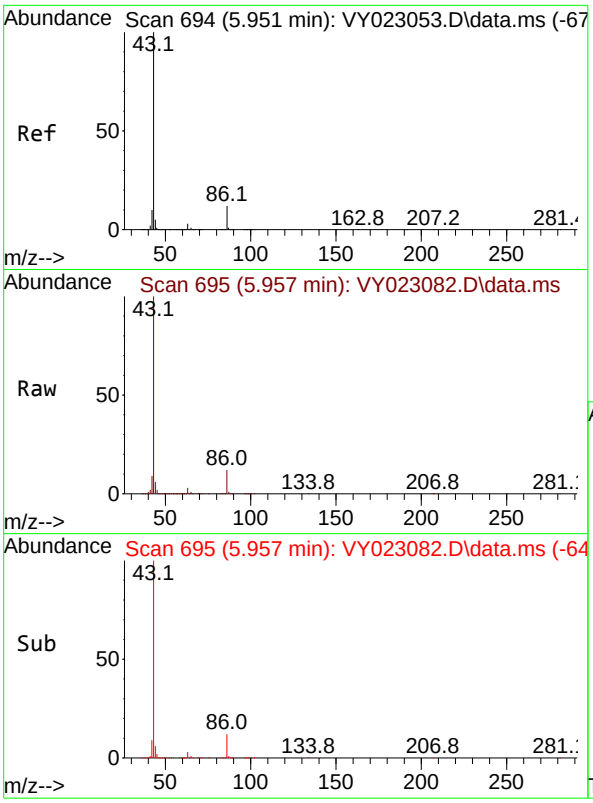



#22
Diisopropyl ether
Concen: 50.952 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 45 Resp: 695381

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 56.4 | 43.4 | 65.0 |
| 87 | 29.7 | 24.4 | 36.6 |
| 59 | 12.7 | 10.2 | 15.4 |






#23
Vinyl Acetate
Concen: 237.183 ug/l
RT: 5.957 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 43 Resp: 178990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 12.0 | 9.6 | 14.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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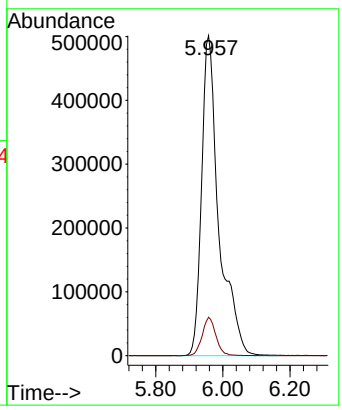
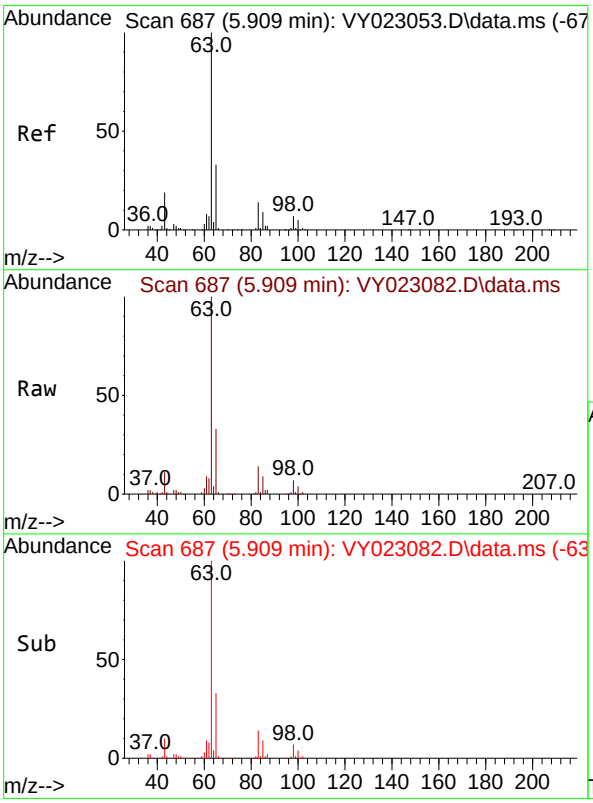
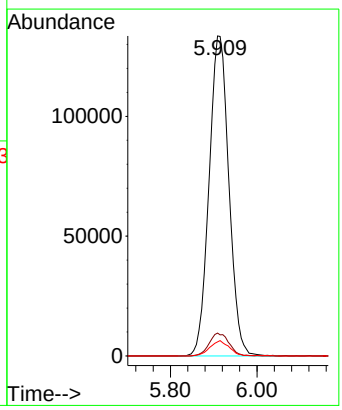


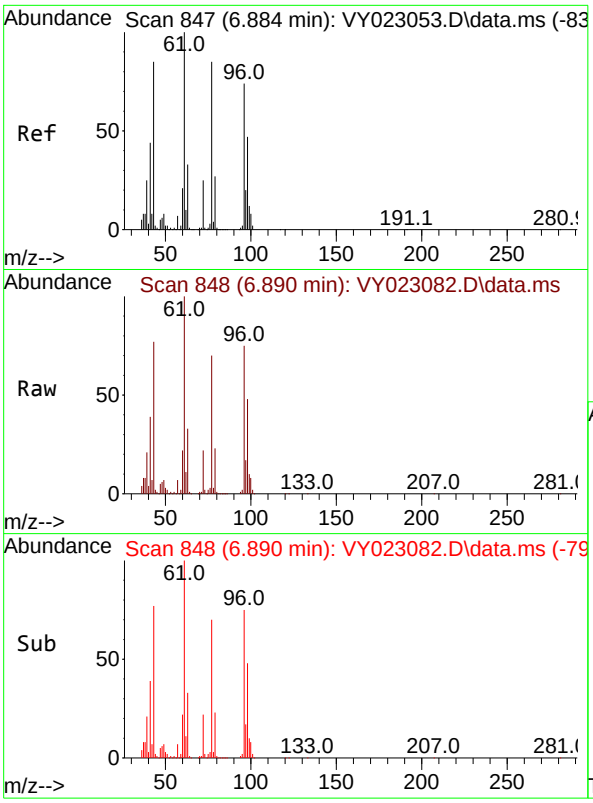




#24
1,1-Dichloroethane
Concen: 50.854 ug/l
RT: 5.909 min Scan# 687
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 63 Resp: 424330

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.1 | 3.5 | 10.6 |
| 100 | 4.4 | 2.4 | 7.1 |






#25
2-Butanone
Concen: 224.999 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 43 Resp: 279864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 29.1 | 23.5 | 35.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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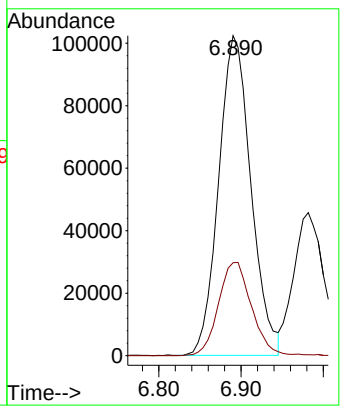
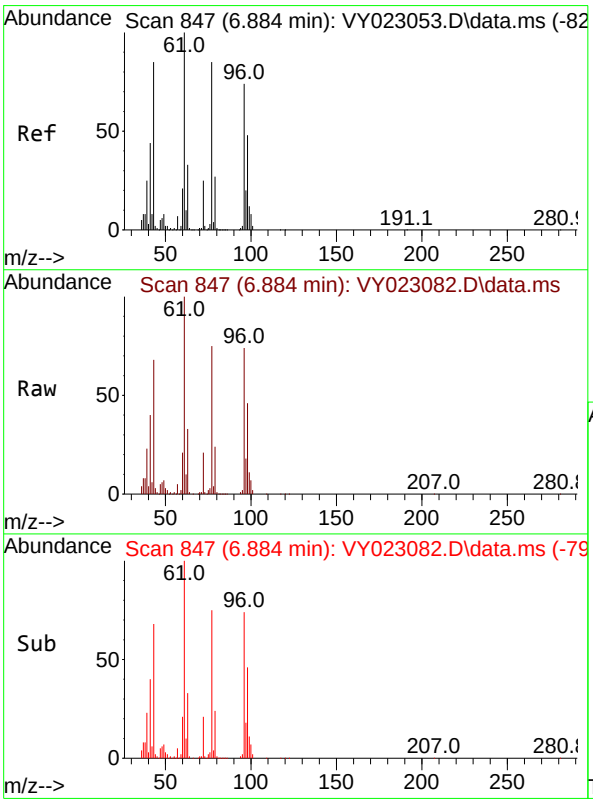
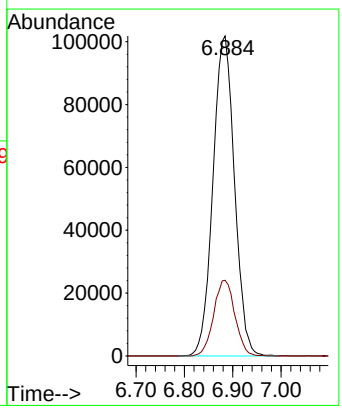


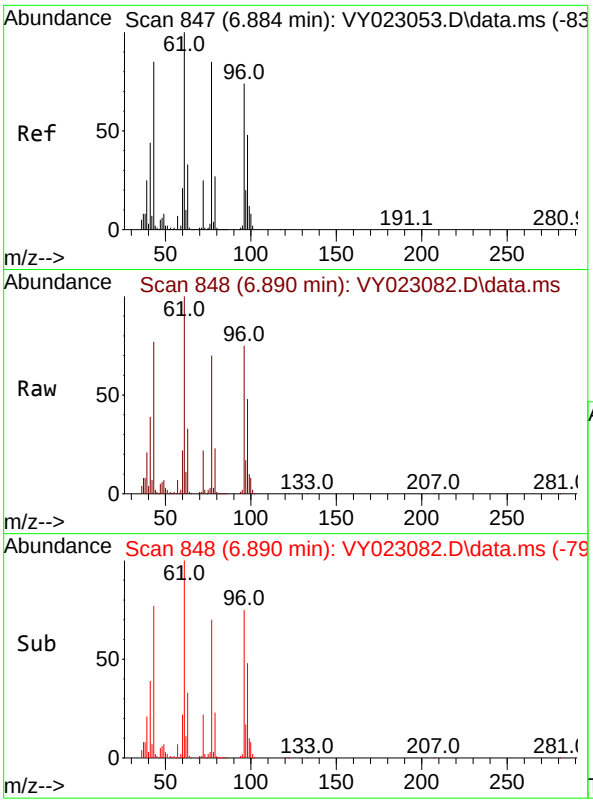




#26
2,2-Dichloropropane
Concen: 43.733 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 77 Resp: 314878

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.3 | 11.6 | 34.8 |






#27
cis-1,2-Dichloroethene
Concen: 50.561 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 96 Resp: 28037(

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 135.8 | 0.0 | 278.6 |
| 98 | 63.9 | 0.0 | 130.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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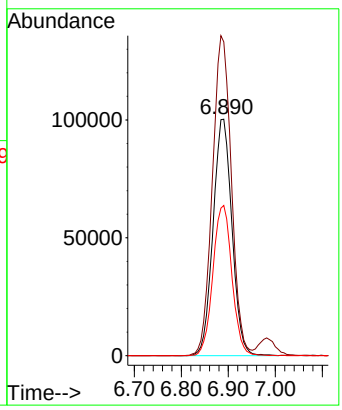
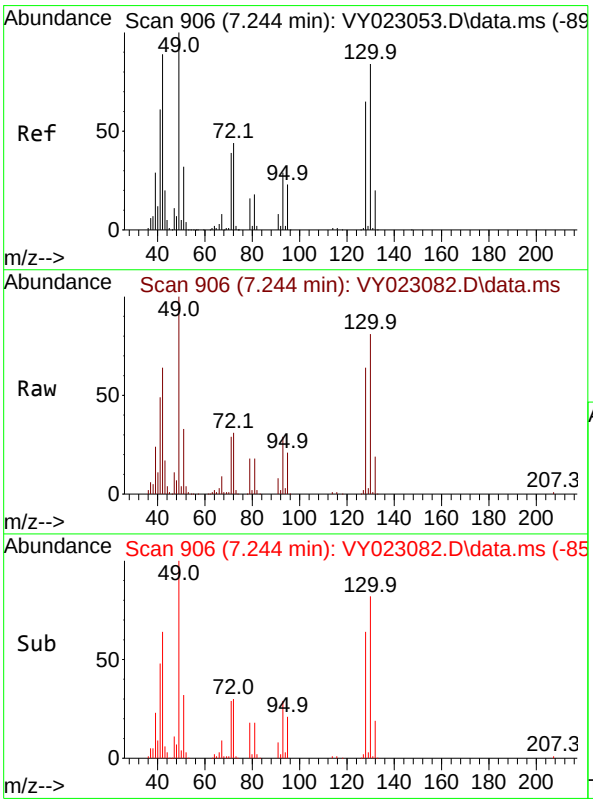
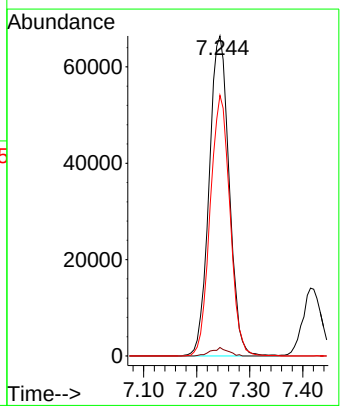


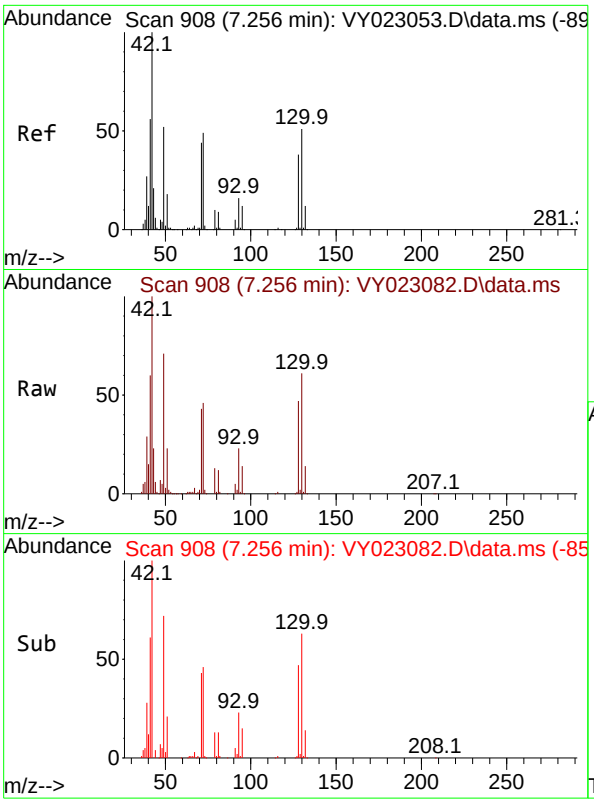




#28
Bromochloromethane
Concen: 52.662 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 49 Resp: 174333

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.2 | 0.0 | 4.2 |
| 130 | 80.2 | 66.4 | 99.6 |






#29
Tetrahydrofuran
Concen: 238.509 ug/l
RT: 7.256 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 42 Resp: 18389

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 47.8 | 39.4 | 59.2 |
| 71 | 44.6 | 36.5 | 54.7 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

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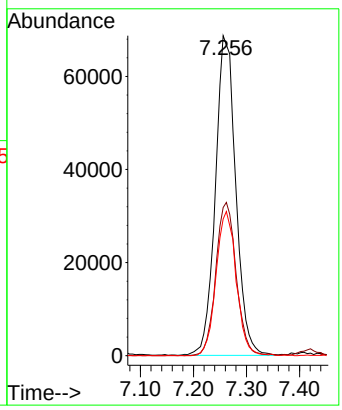
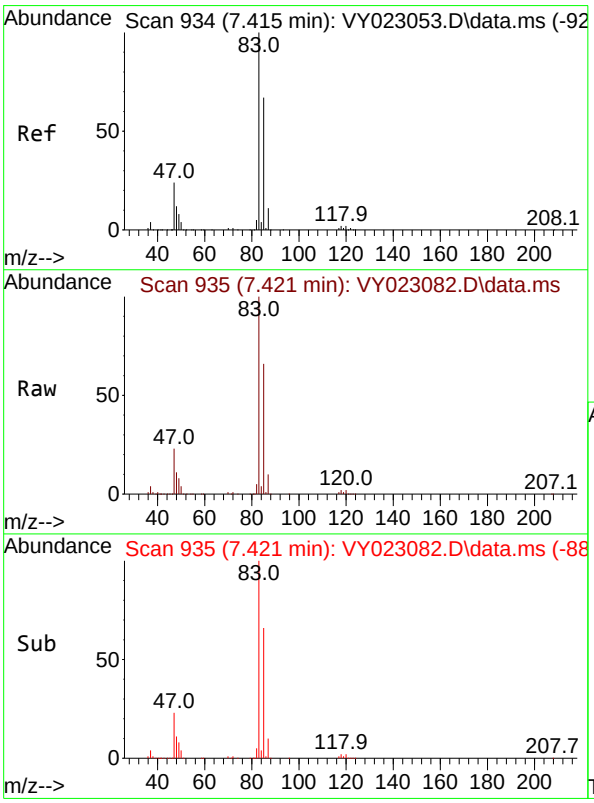
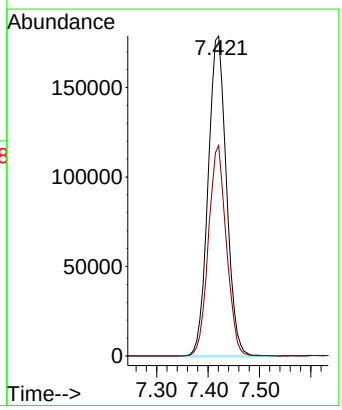


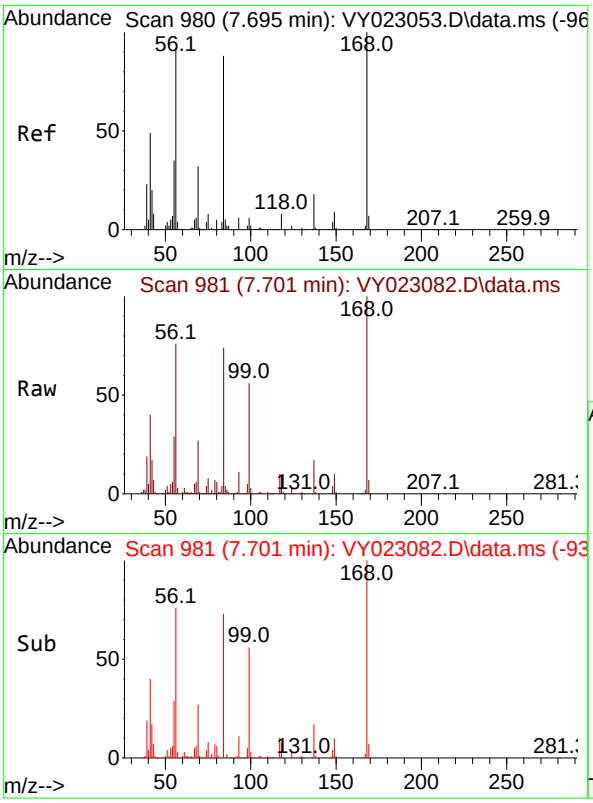




#30
Chloroform
Concen: 51.354 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 83 Resp: 441927

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.7 | 53.8 | 80.8 |

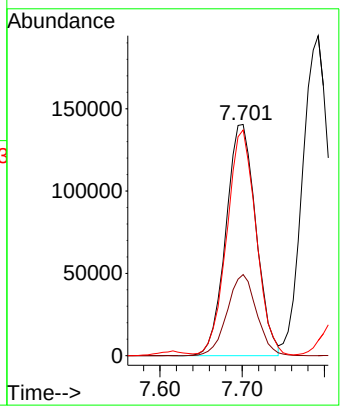





#31
Cyclohexane
Concen: 45.365 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 56 Resp: 35670

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 35.1 | 28.2 | 42.2 |
| 84 | 96.1 | 76.6 | 114.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

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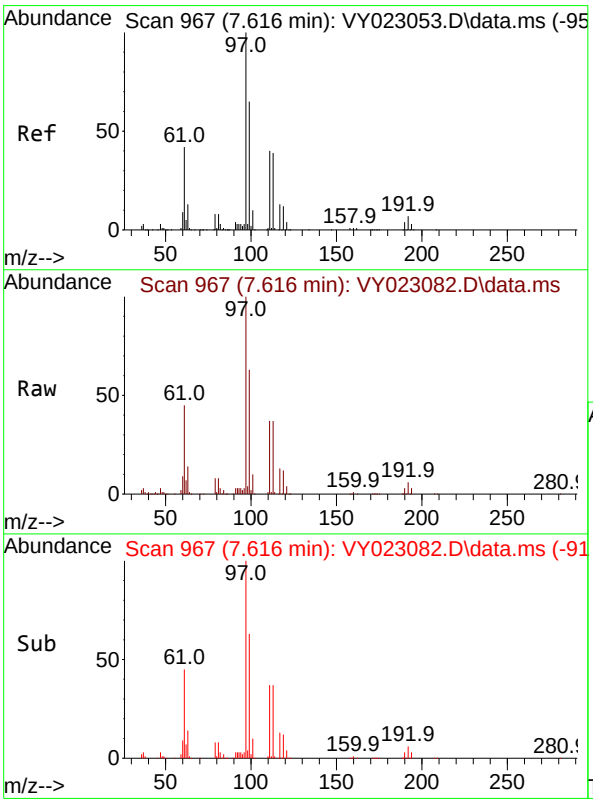
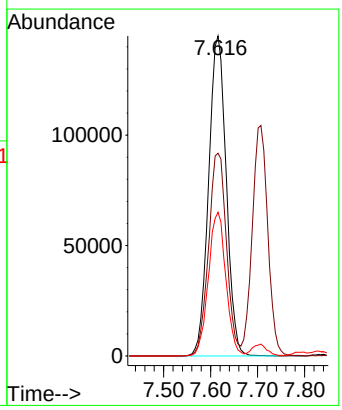
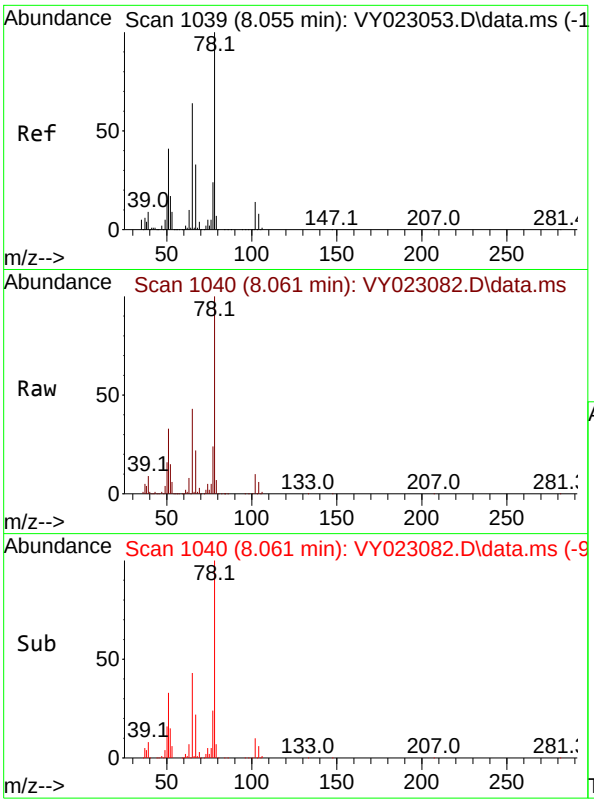



#32
1,1,1-Trichloroethane
Concen: 49.325 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 97 Resp: 376634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.8 | 51.6 | 77.4 |
| 61 | 44.6 | 34.2 | 51.2 |

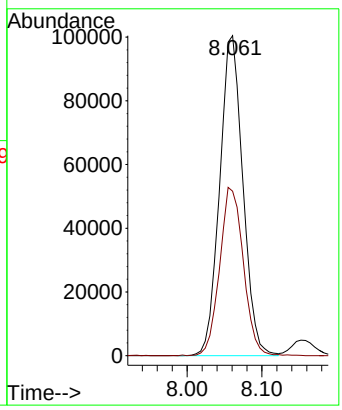





#33
1,2-Dichloroethane-d4
Concen: 51.443 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 65 Resp: 21716

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.7 | 0.0 | 106.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

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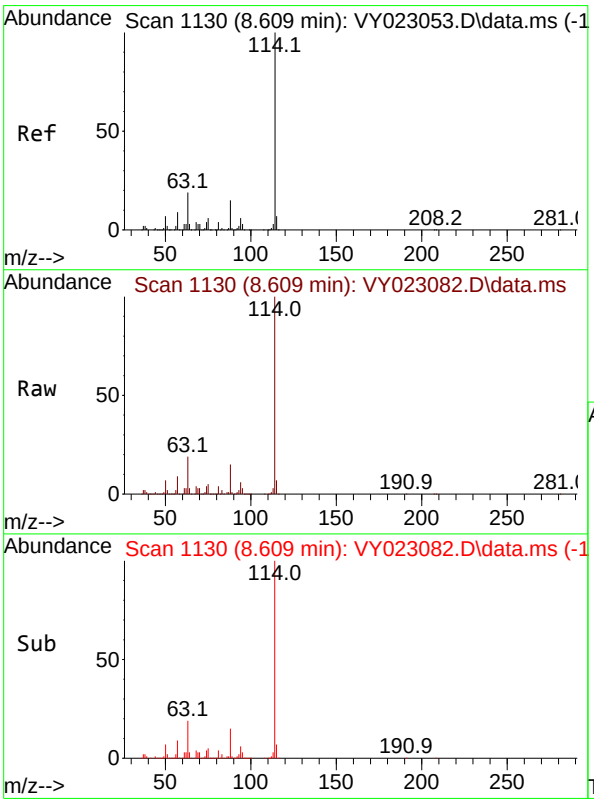
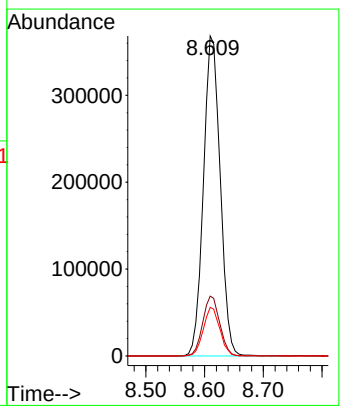
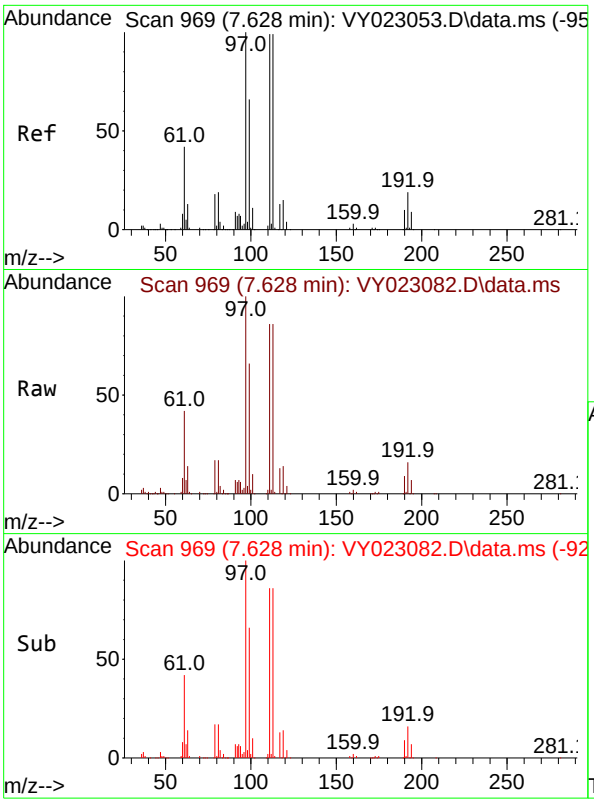



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:114 Resp: 730611

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.7 | 0.0 | 38.4 |
| 88 | 15.2 | 0.0 | 30.0 |

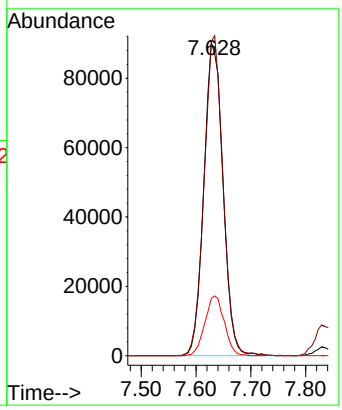





#35
Dibromofluoromethane
Concen: 49.874 ug/l
RT: 7.628 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:113 Resp: 21803

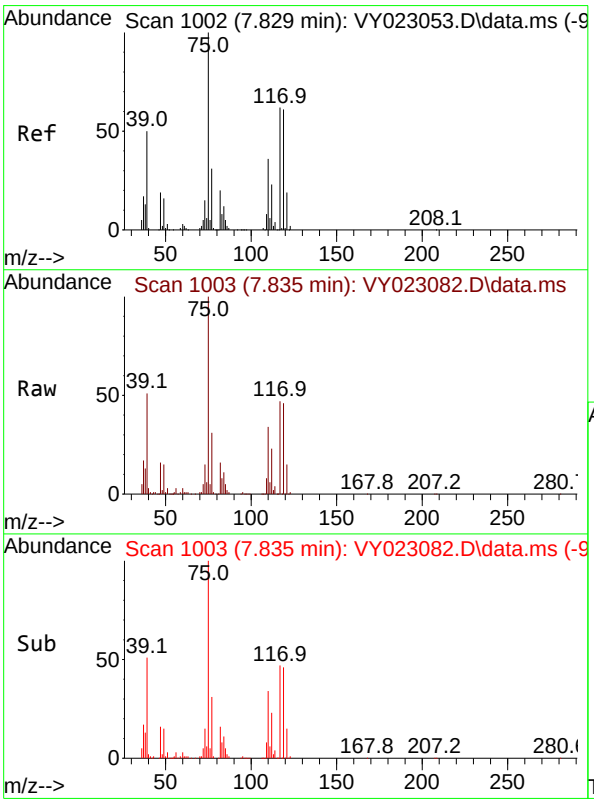
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.4 | 81.1 | 121.7 |
| 192 | 19.4 | 16.2 | 24.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

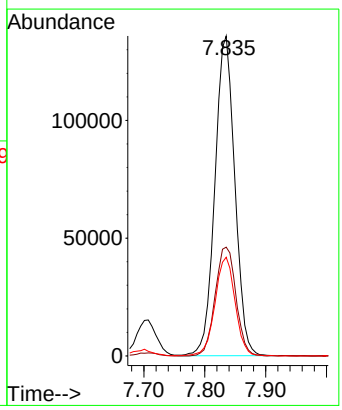
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

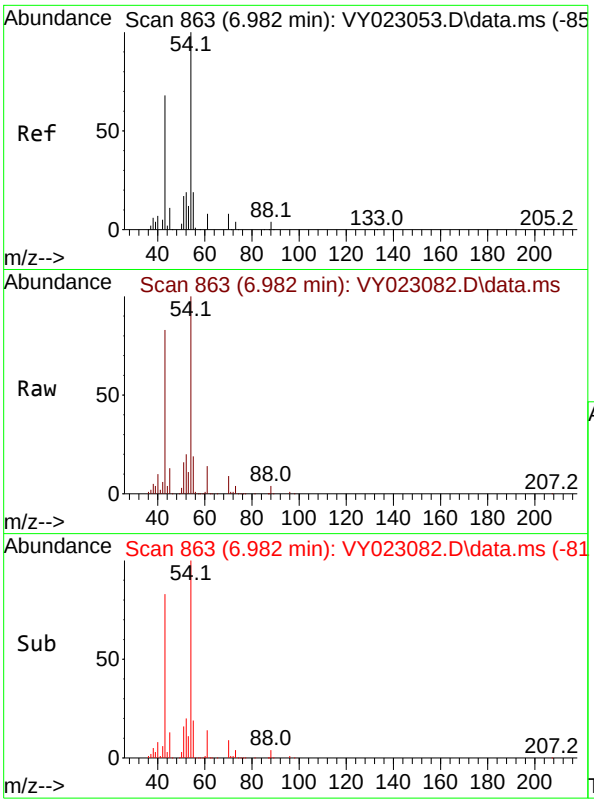



#36
1,1-Dichloropropene
Concen: 47.457 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 75 Resp: 308332

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.6 | 18.1 | 54.4 |
| 77 | 31.3 | 24.6 | 37.0 |






#37
Ethyl Acetate
Concen: 44.531 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 43 Resp: 12153

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.8 | 11.9 | 17.9 |
| 70 | 11.1 | 8.8 | 13.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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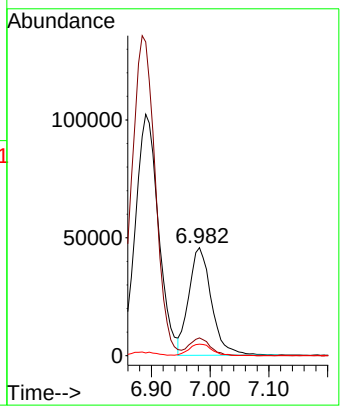
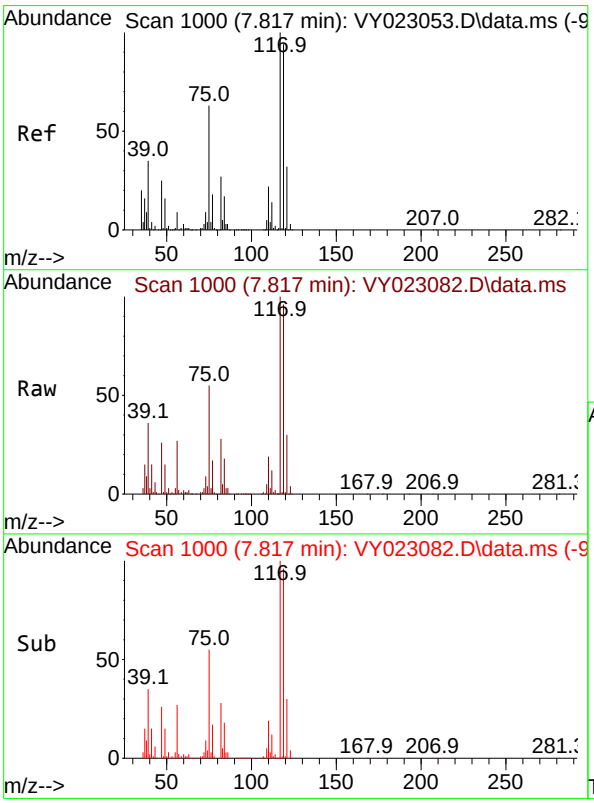
Supervised By :Semsettin Yesilyurt 08/19/2025

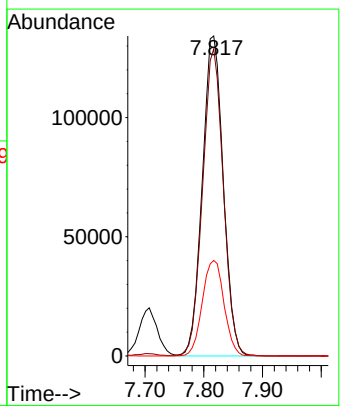


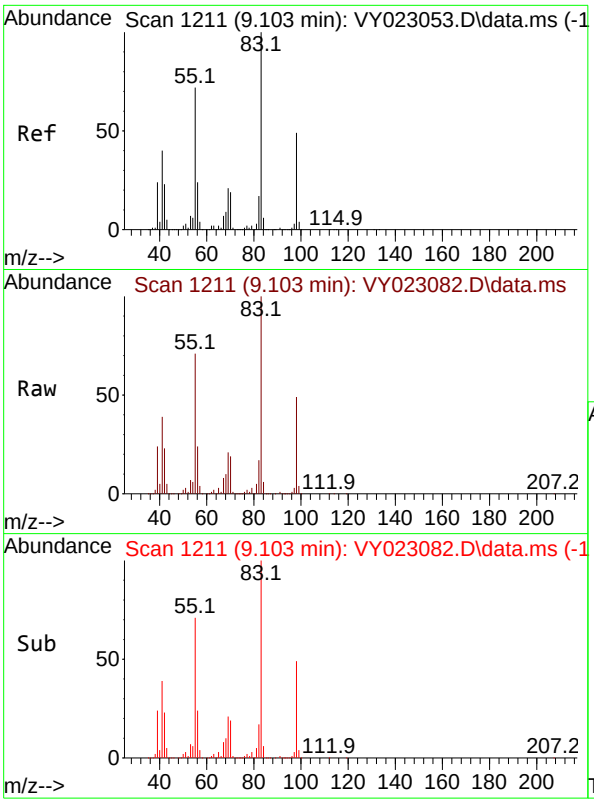




#38
Carbon Tetrachloride
Concen: 47.191 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:117 Resp: 333012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.9 | 75.6 | 113.4 |
| 121 | 29.9 | 25.8 | 38.8 |






#39
Methylcyclohexane
Concen: 46.461 ug/l
RT: 9.103 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 83 Resp: 39750

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 71.1 | 57.6 | 86.4 |
| 98 | 48.7 | 39.2 | 58.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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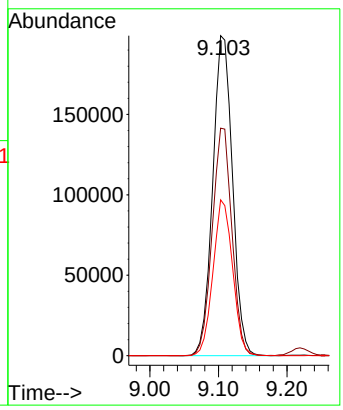
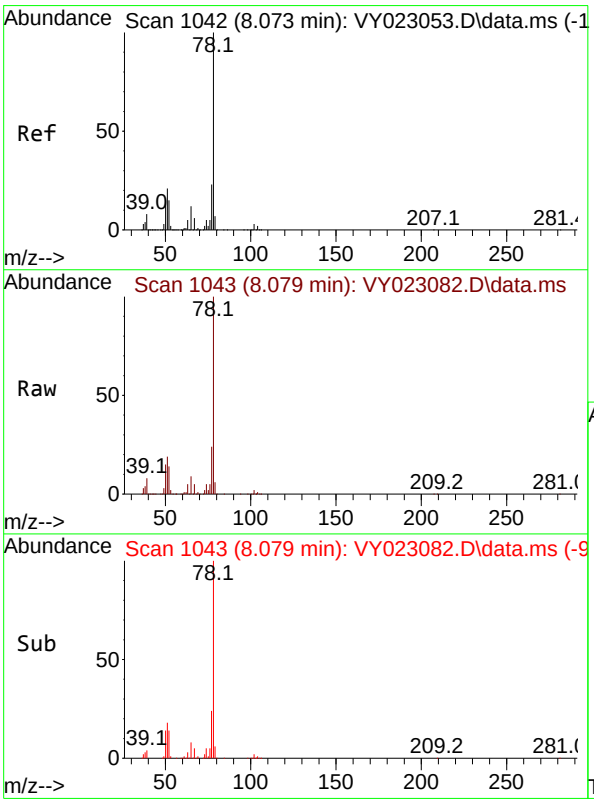
Supervised By :Semsettin Yesilyurt 08/19/2025

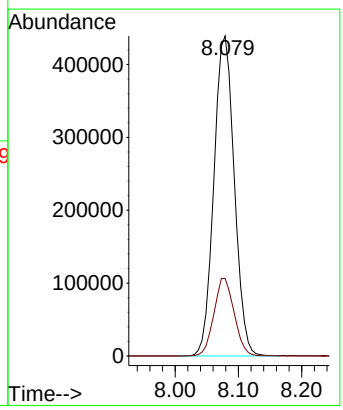


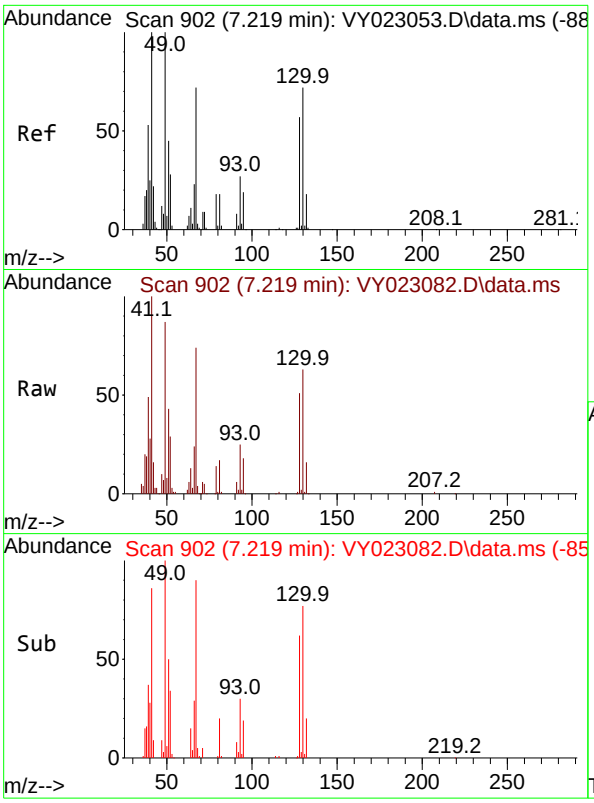




#40
Benzene
Concen: 49.159 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 78 Resp: 984401

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.3 | 18.6 | 28.0 |

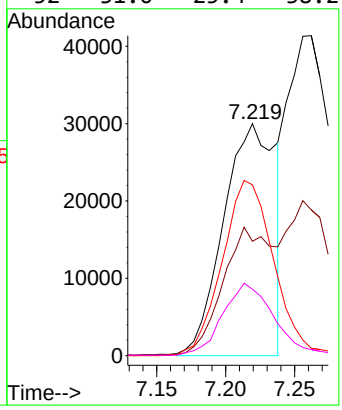





#41
Methacrylonitrile
Concen: 50.010 ug/l m
RT: 7.219 min Scan# 9(
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 41 Resp: 7877(

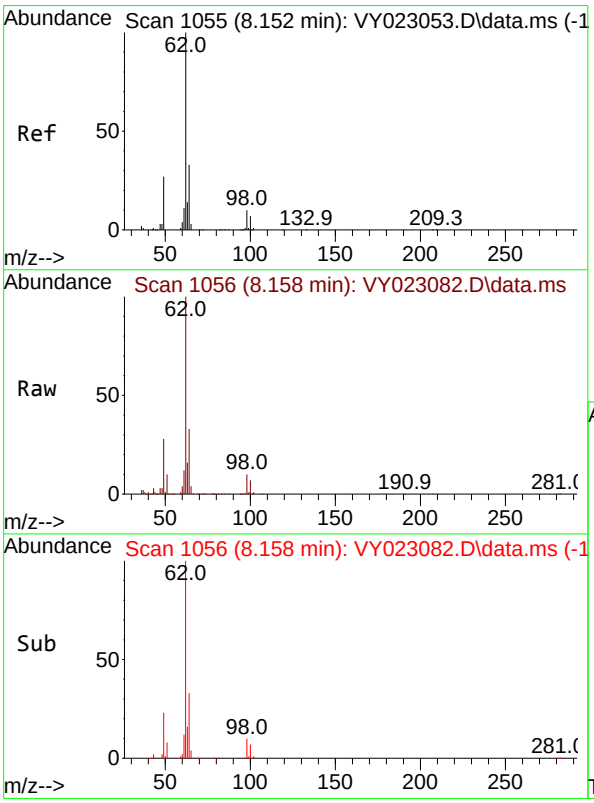
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 54.3 | 43.4 | 65.2 |
| 67 | 75.1 | 63.6 | 95.4 |
| 52 | 31.0 | 25.4 | 38.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

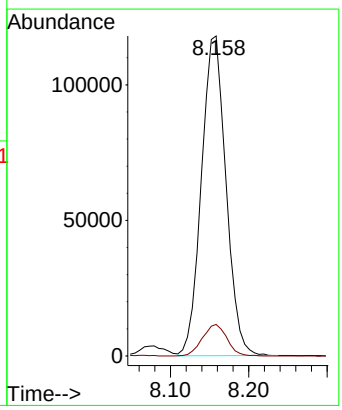
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

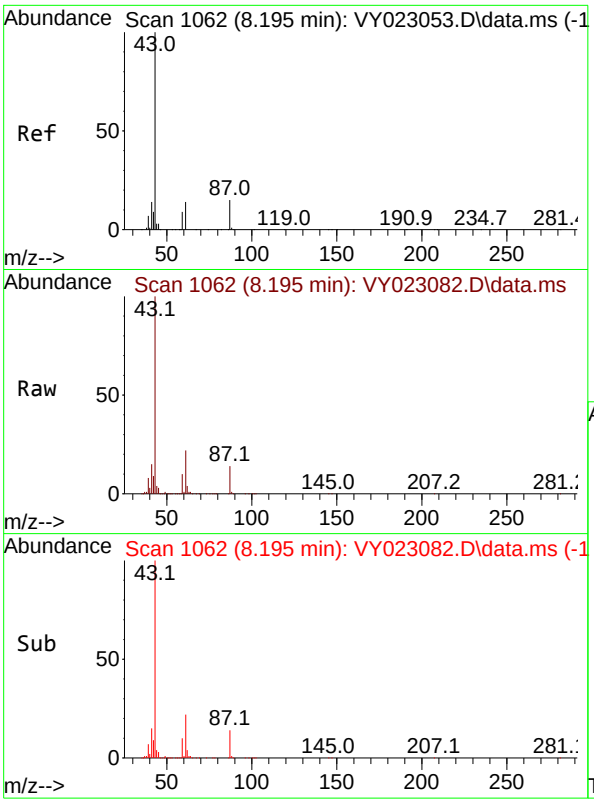



#42
1,2-Dichloroethane
Concen: 49.294 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 62 Resp: 256723

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.8 | 0.0 | 20.6 |






#43
Isopropyl Acetate
Concen: 46.064 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 43 Resp: 25410

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 21.8 | 16.4 | 24.6 |
| 87 | 14.7 | 11.8 | 17.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/18/2025
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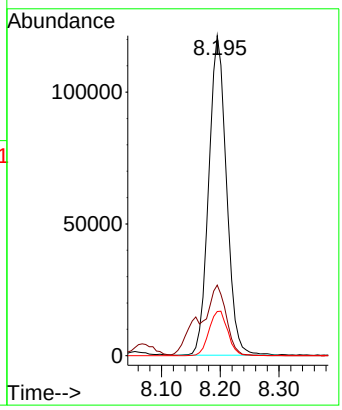
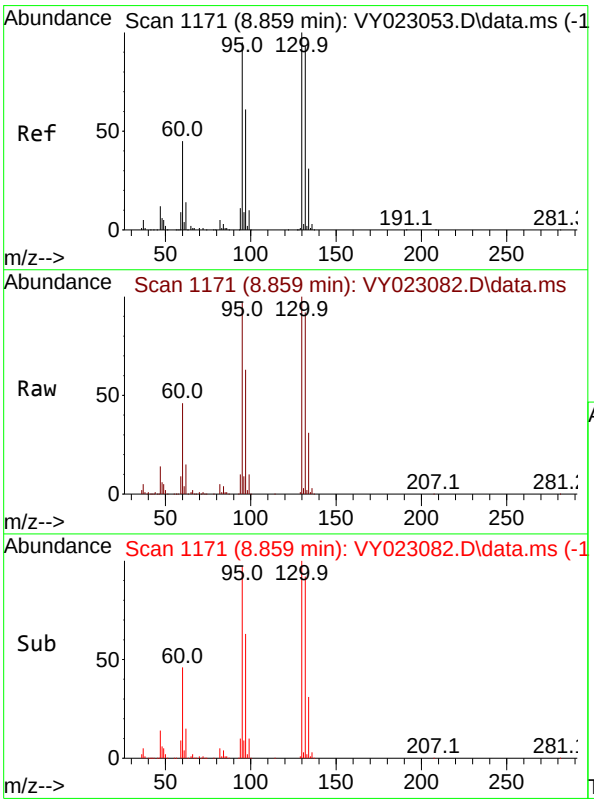
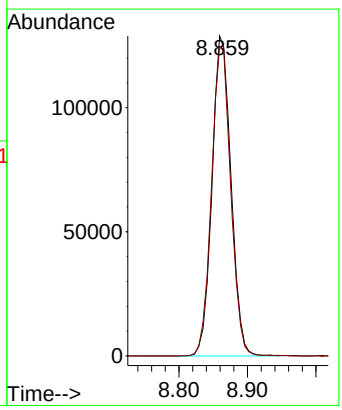


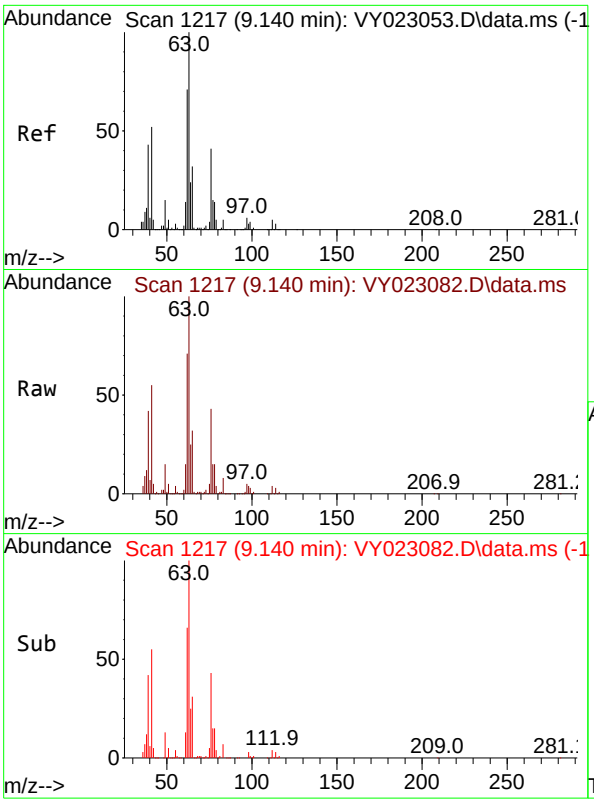




#44
Trichloroethene
Concen: 47.865 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:130 Resp: 247693

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 96.7 | 0.0 | 190.2 |






#45
1,2-Dichloropropane
Concen: 50.153 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 63 Resp: 2310

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.6 | 25.3 | 37.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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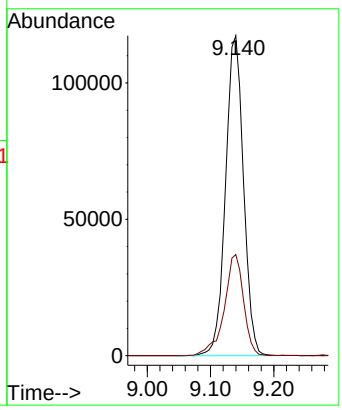
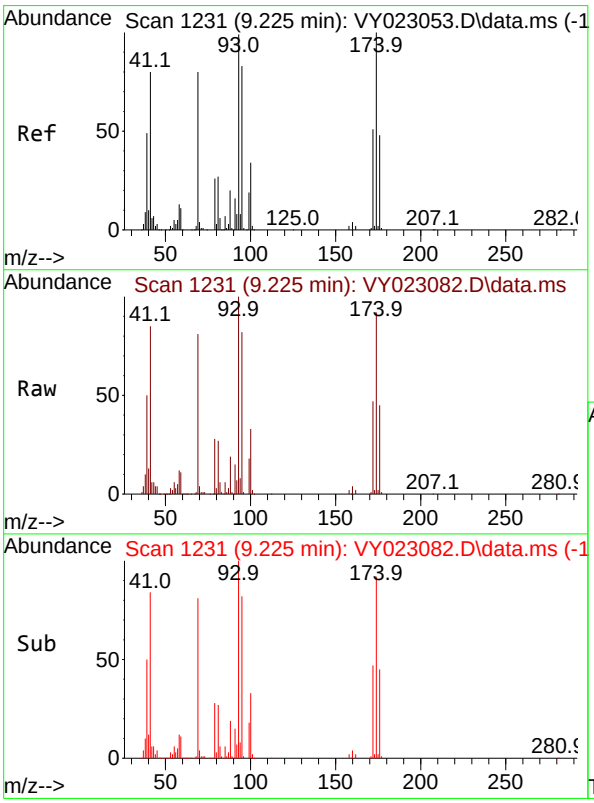
Supervised By :Semsettin Yesilyurt 08/19/2025

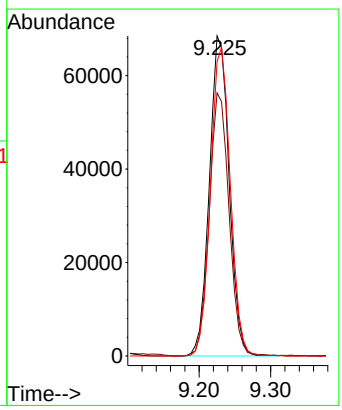


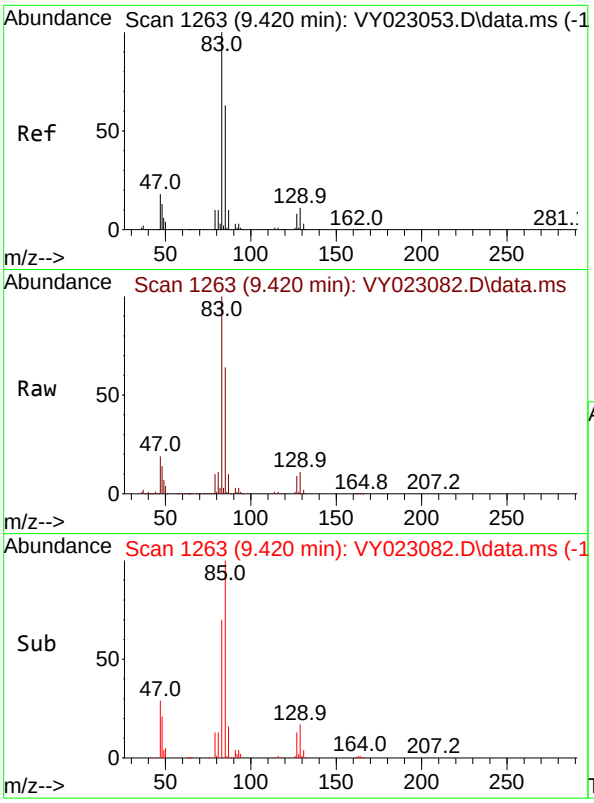




#46
Dibromomethane
Concen: 49.874 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 93 Resp: 131895

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 81.9 | 66.5 | 99.7 |
| 174 | 96.5 | 81.8 | 122.8 |

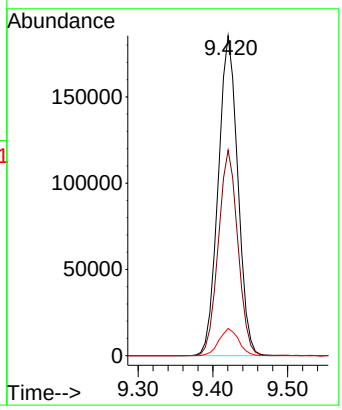





#47
Bromodichloromethane
Concen: 49.561 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 83 Resp: 33725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.3 | 50.2 | 75.4 |
| 127 | 8.5 | 6.6 | 10.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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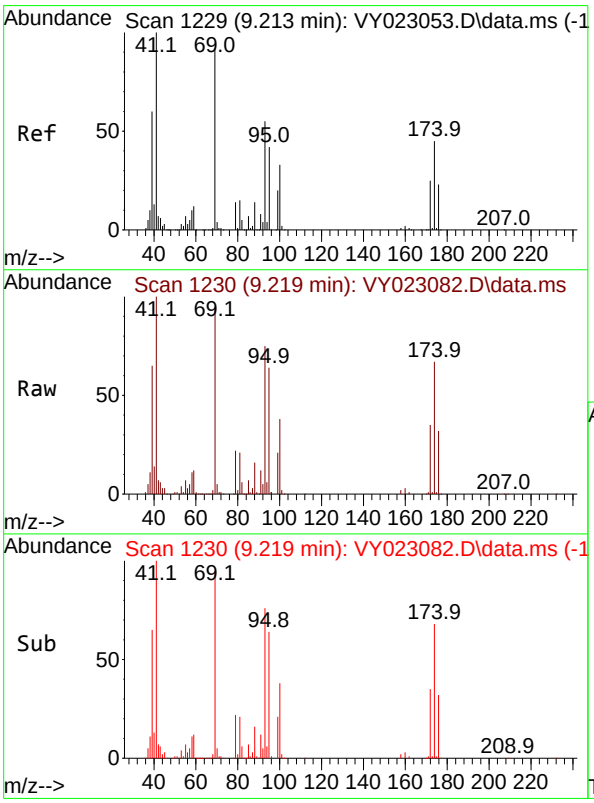
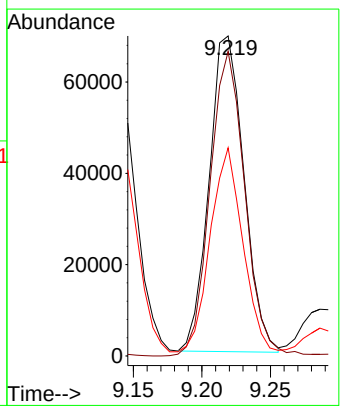
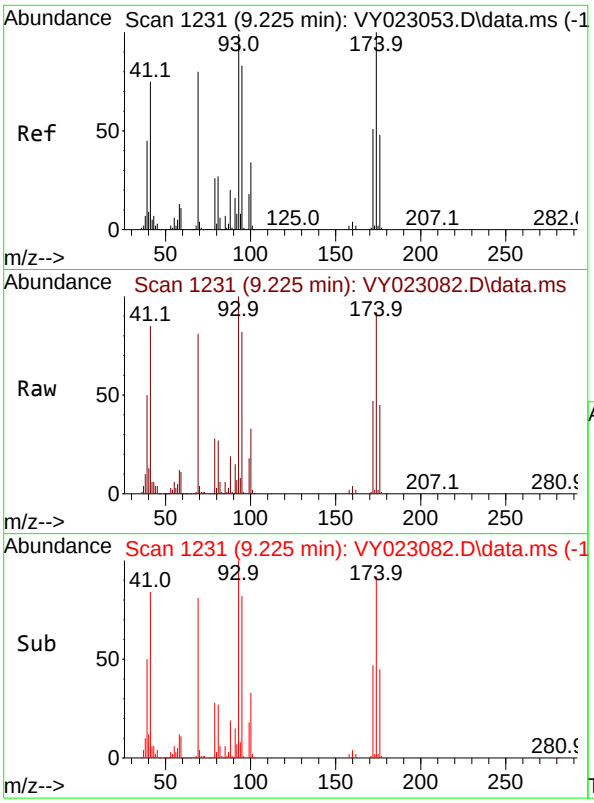



#48
Methyl methacrylate
Concen: 46.388 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 41 Resp: 122447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 96.6 | 73.2 | 109.8 |
| 39 | 60.4 | 47.0 | 70.4 |






#49
1,4-Dioxane
Concen: 946.941 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 88 Resp: 2936

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 33.1 | 24.3 | 36.5 |
| 58 | 64.7 | 55.4 | 83.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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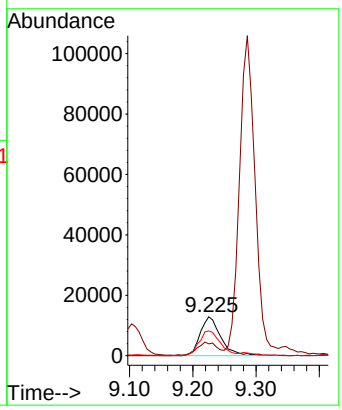
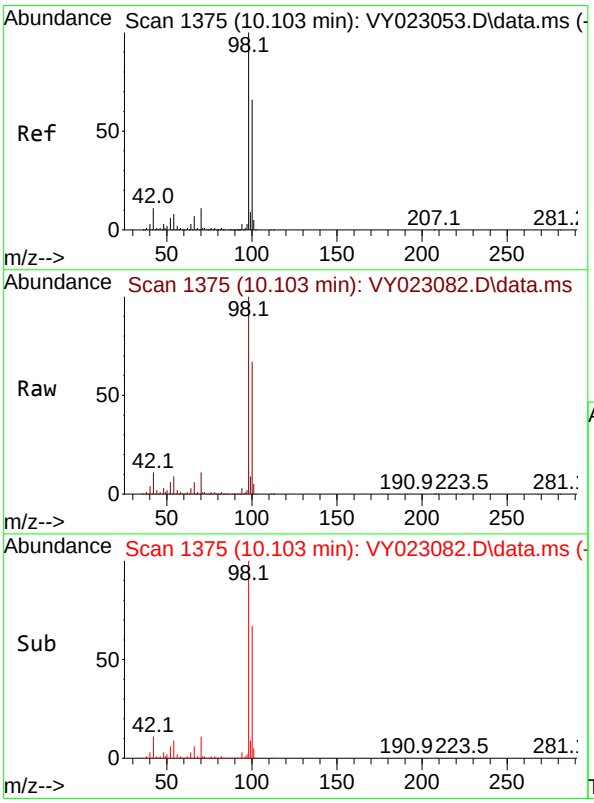
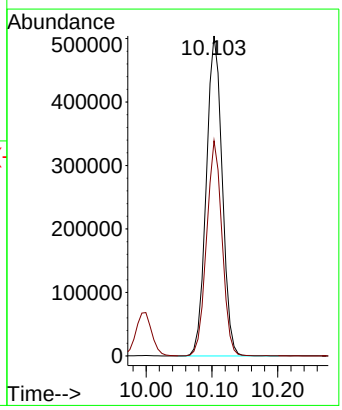


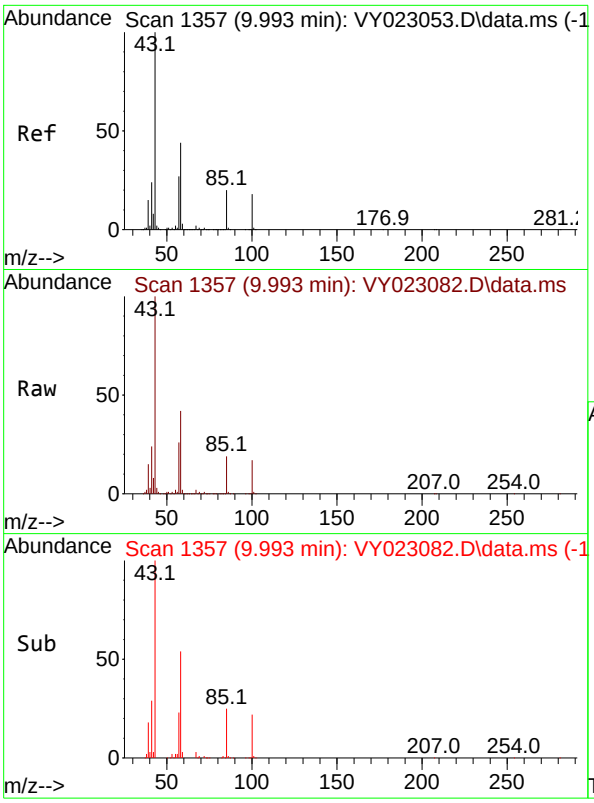




#50
Toluene-d8
Concen: 49.680 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 98 Resp: 848458

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.1 | 52.3 | 78.5 |

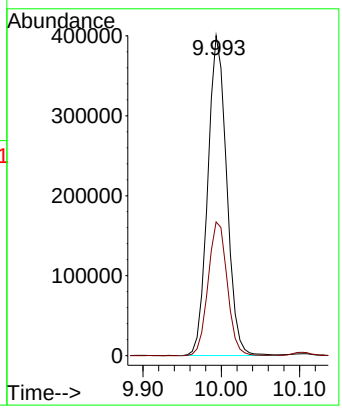





#51
4-Methyl-2-Pentanone
Concen: 235.707 ug/l
RT: 9.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 43 Resp: 67068

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 42.4 | 33.5 | 50.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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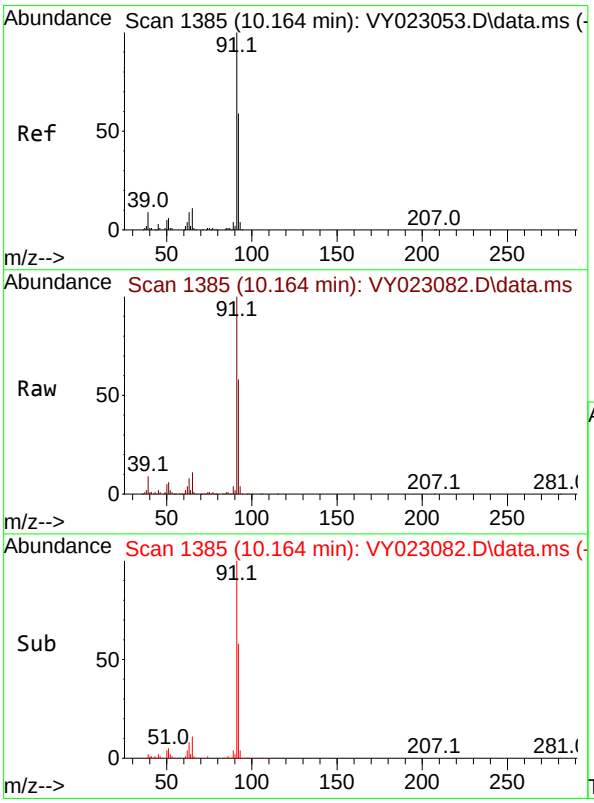
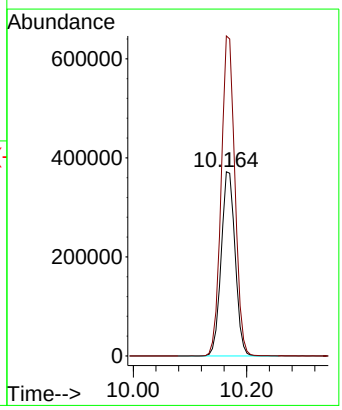
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

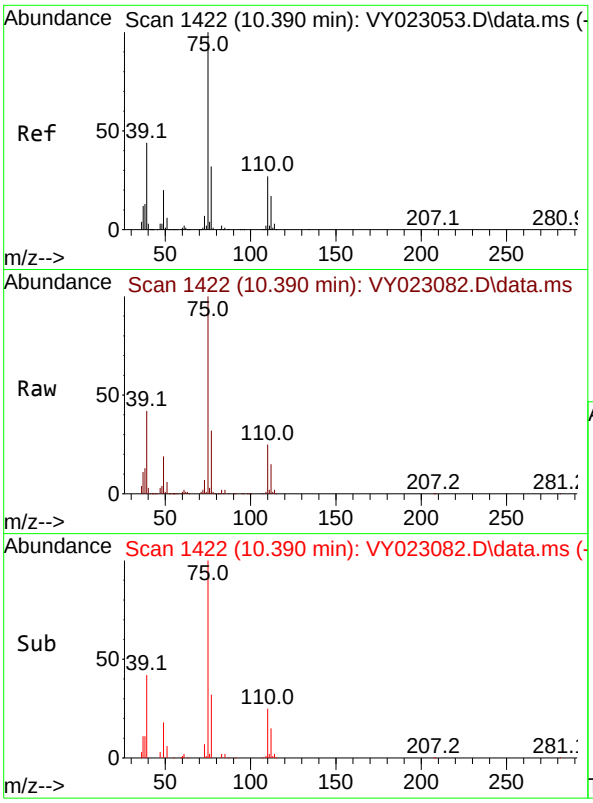



#52
Toluene
Concen: 49.890 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 92 Resp: 634517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 171.1 | 136.4 | 204.6 |






#53
t-1,3-Dichloropropene
Concen: 47.408 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 75 Resp: 29212

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.7 | 25.7 | 38.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

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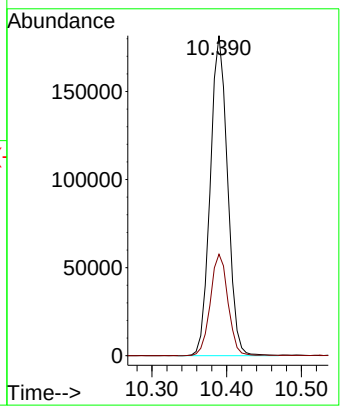
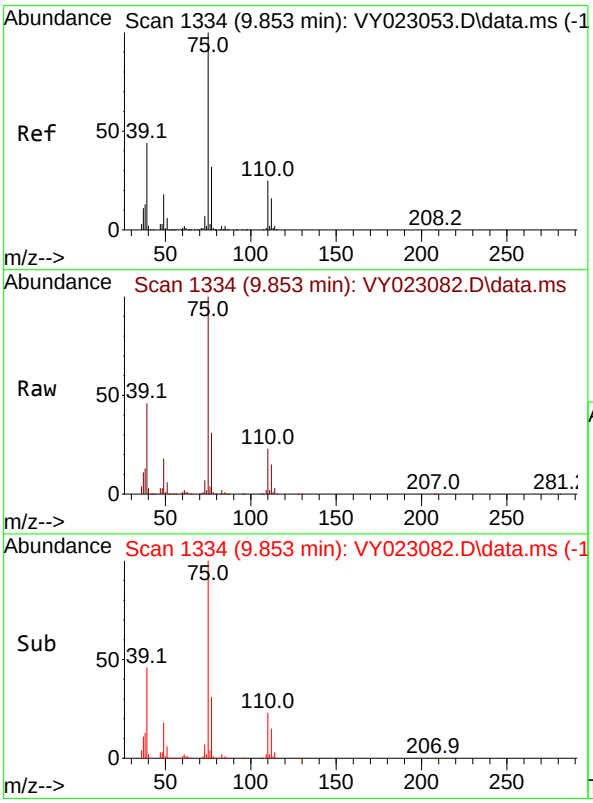
Supervised By :Semsettin Yesilyurt 08/19/2025

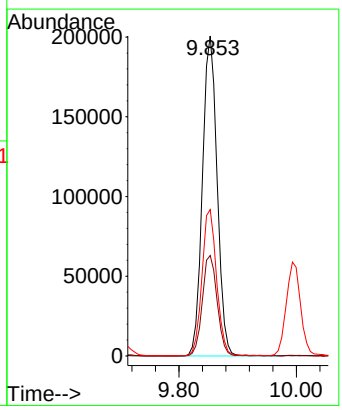


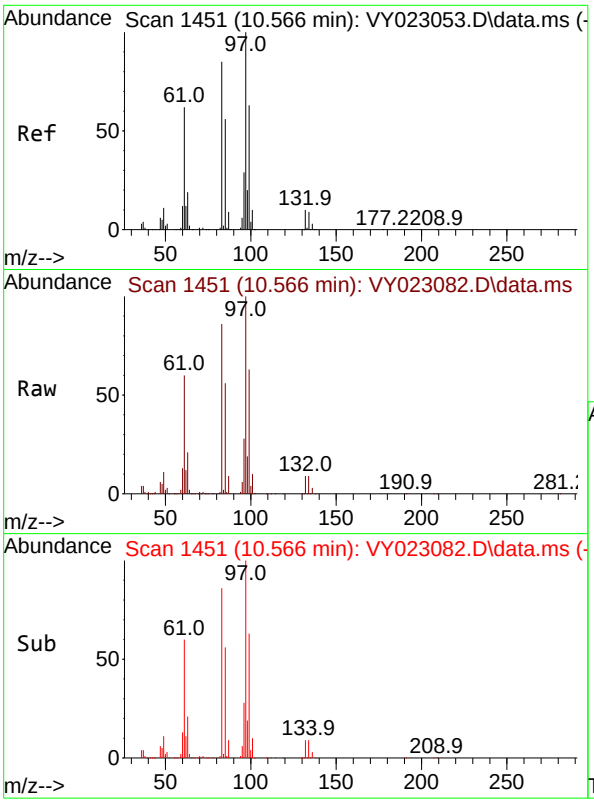




#54
cis-1,3-Dichloropropene
Concen: 47.881 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 75 Resp: 348886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.4 | 25.4 | 38.0 |
| 39 | 45.7 | 35.6 | 53.4 |

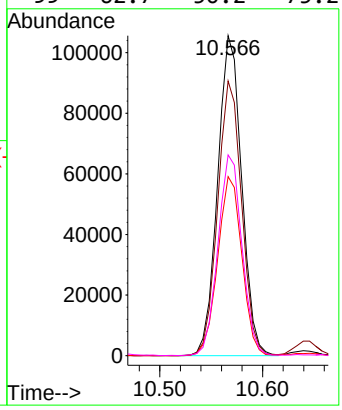





#55
1,1,2-Trichloroethane
Concen: 48.399 ug/l
RT: 10.566 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 97 Resp: 17127

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 85.9 | 67.7 | 101.5 |
| 85 | 55.9 | 44.5 | 66.7 |
| 99 | 62.7 | 50.2 | 75.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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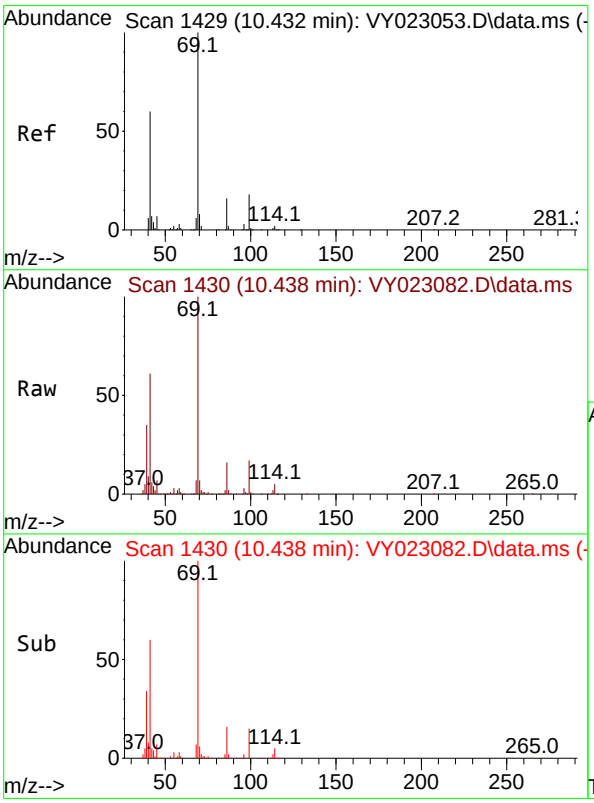
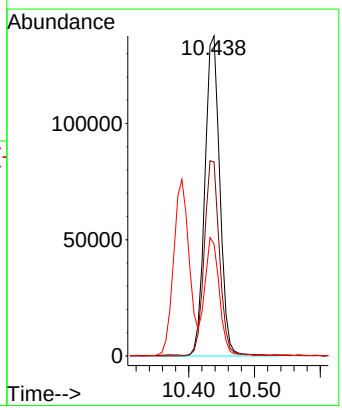
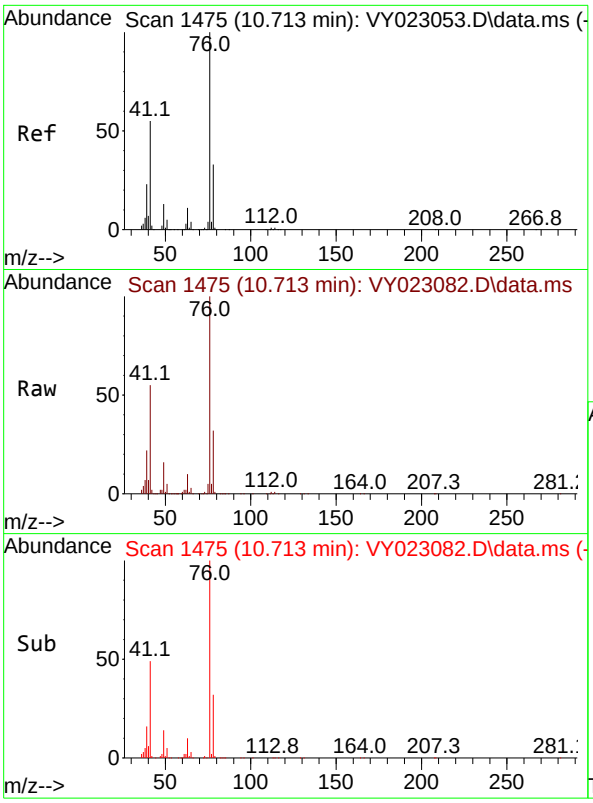



#56
Ethyl methacrylate
Concen: 48.164 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 69 Resp: 218091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 61.3 | 48.6 | 72.8 |
| 39 | 35.8 | 27.0 | 40.4 |

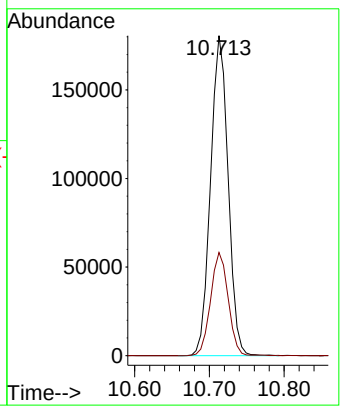





#57
1,3-Dichloropropane
Concen: 49.039 ug/l
RT: 10.713 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 76 Resp: 29430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.4 | 26.0 | 39.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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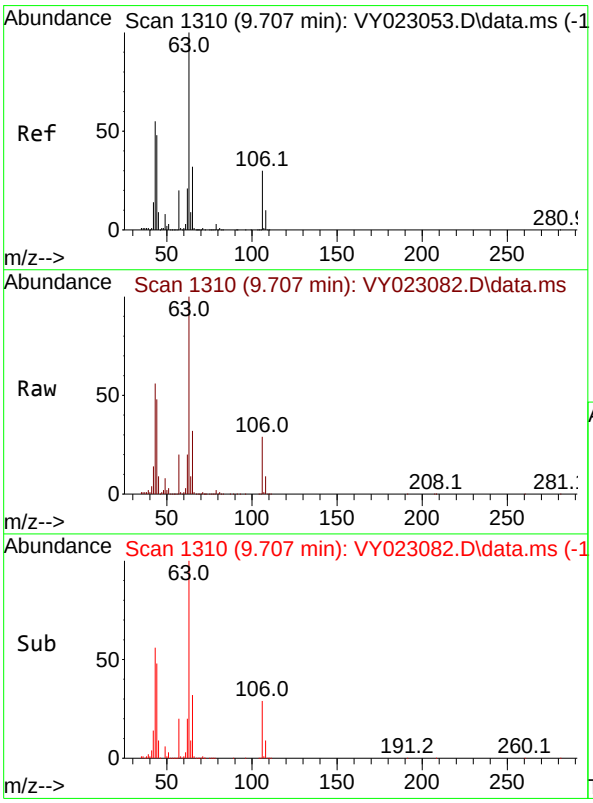
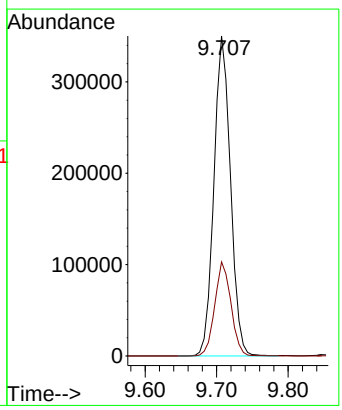
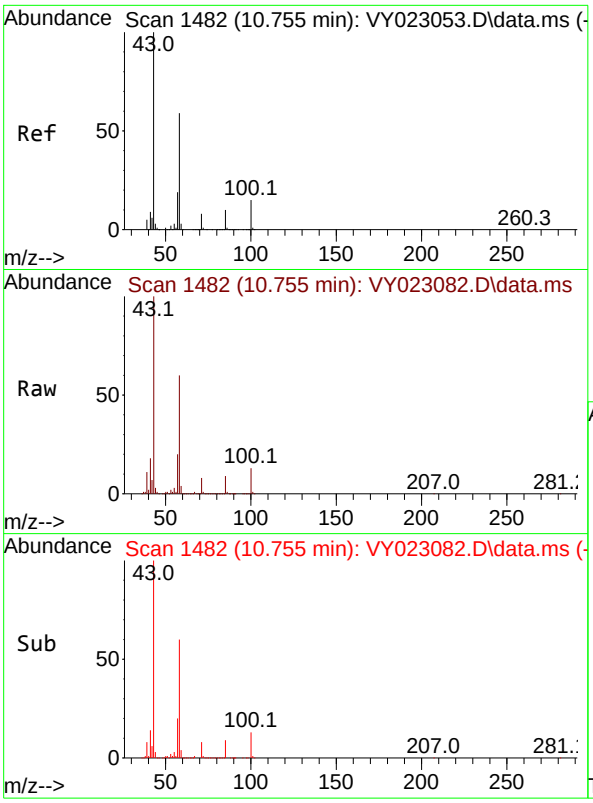



#58
2-Chloroethyl Vinyl ether
Concen: 263.718 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 63 Resp: 563277

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 28.8 | 23.2 | 34.8 |






#59
2-Hexanone
Concen: 229.542 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 43 Resp: 44474

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 59.4 | 29.5 | 88.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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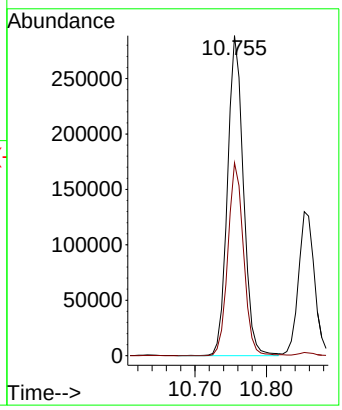
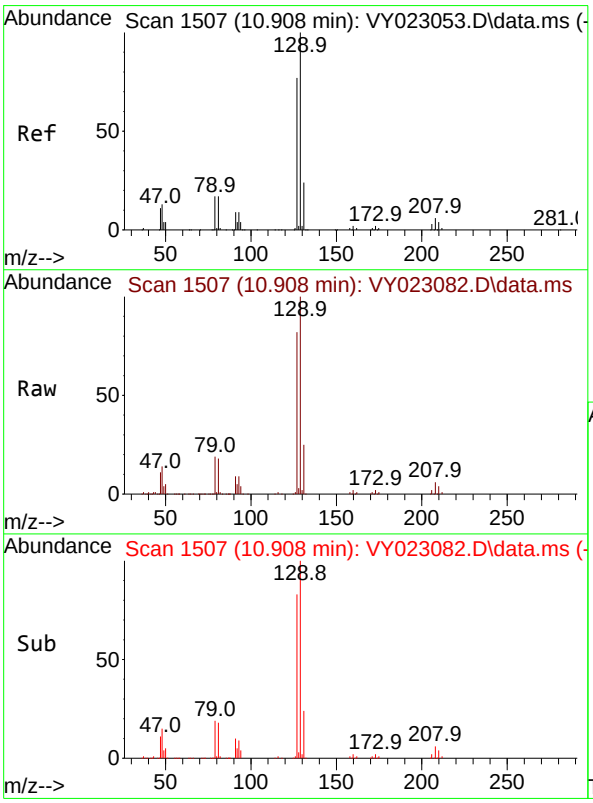
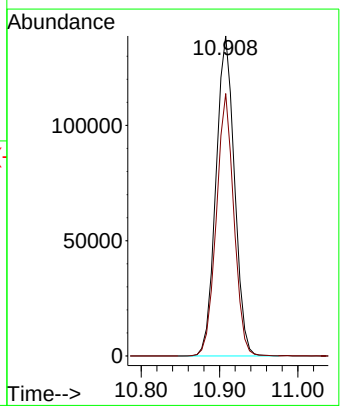


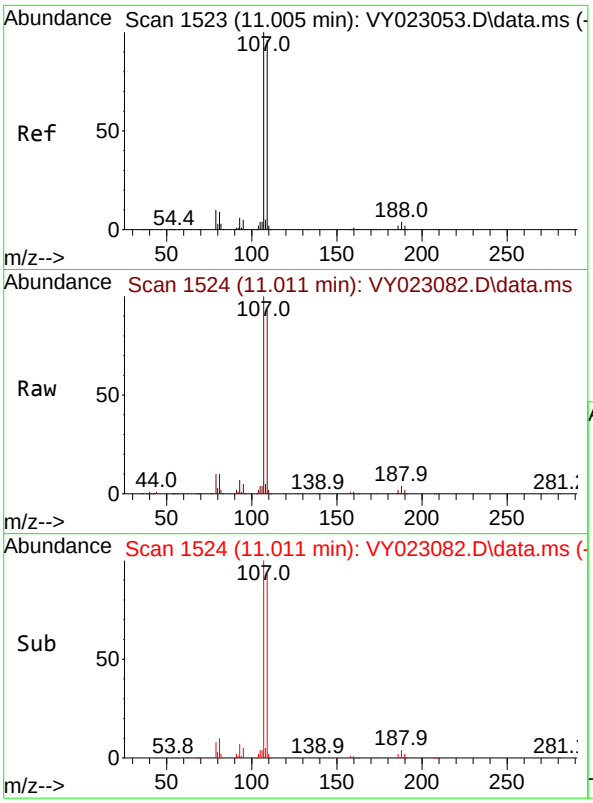




#60
Dibromochloromethane
Concen: 48.956 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:129 Resp: 228588

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.7 | 38.5 | 115.5 |

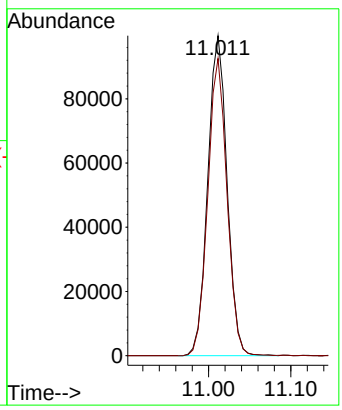





#61
1,2-Dibromoethane
Concen: 48.817 ug/l
RT: 11.011 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:107 Resp: 16236

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 92.4 | 75.6 | 113.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

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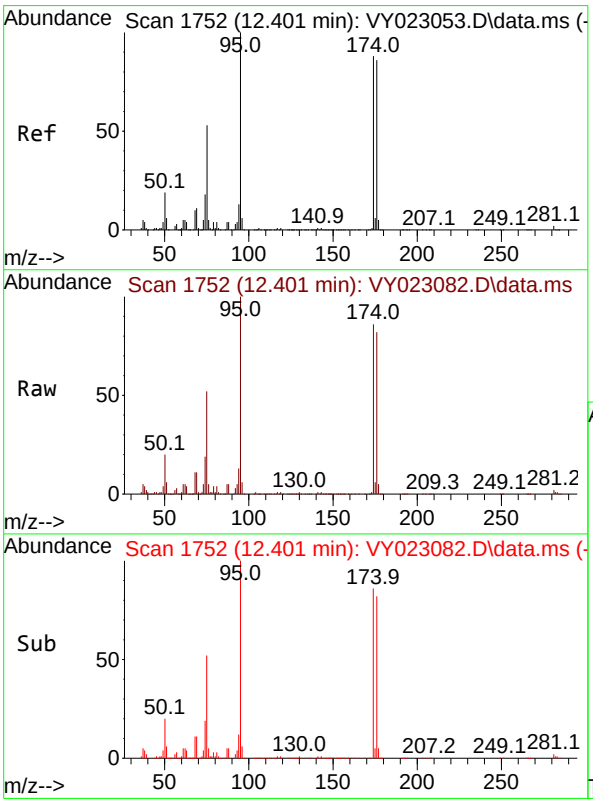
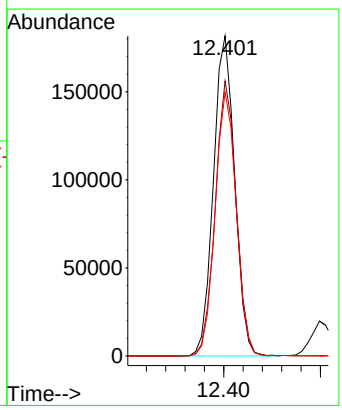
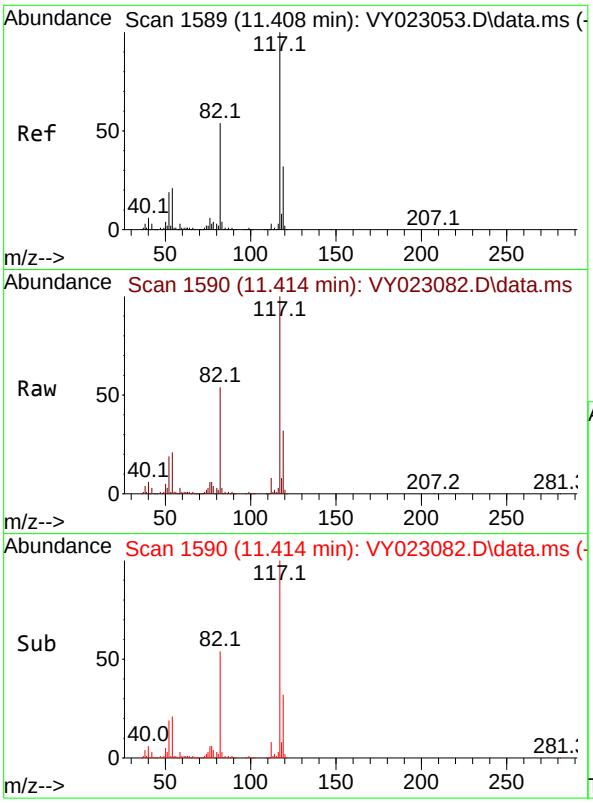



#62
4-Bromofluorobenzene
Concen: 50.453 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 95 Resp: 277110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 84.6 | 0.0 | 171.6 |
| 176 | 82.0 | 0.0 | 167.6 |

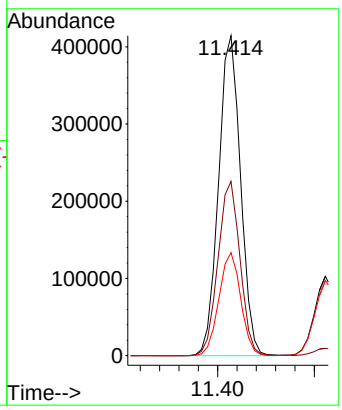





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:117 Resp: 65317

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.4 | 43.4 | 65.0 |
| 119 | 32.2 | 25.6 | 38.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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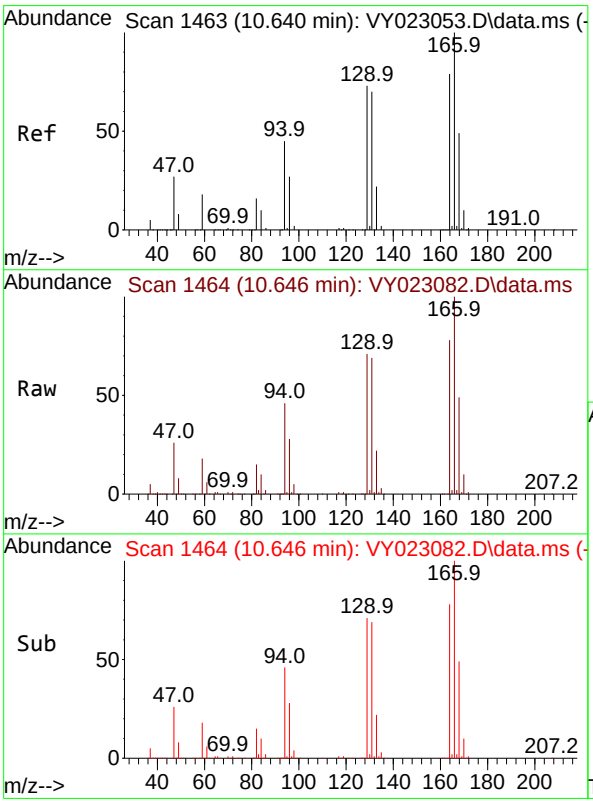
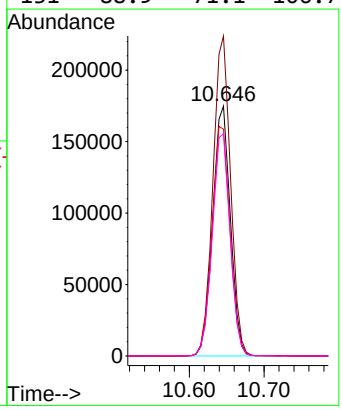
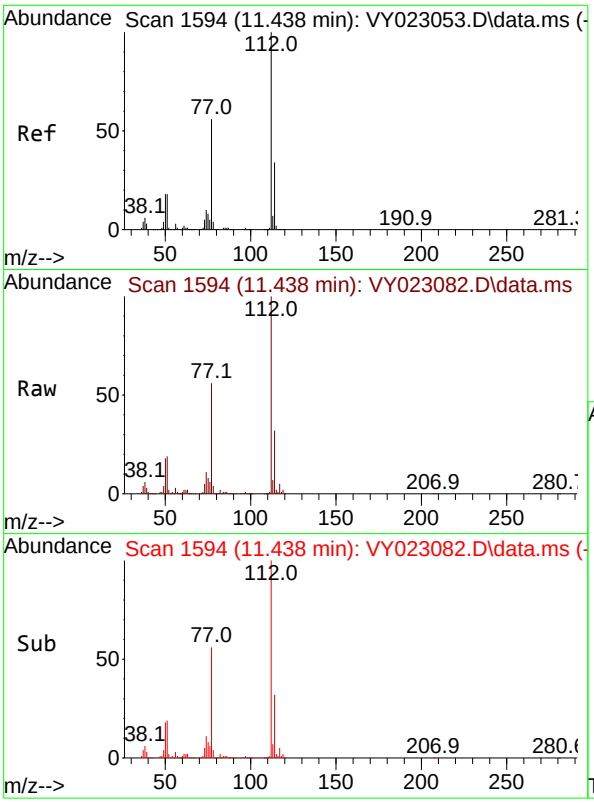



#64
Tetrachloroethene
Concen: 49.476 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:164 Resp: 288562

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 128.1 | 101.1 | 151.7 |
| 129 | 90.8 | 74.0 | 111.0 |
| 131 | 88.9 | 71.1 | 106.7 |

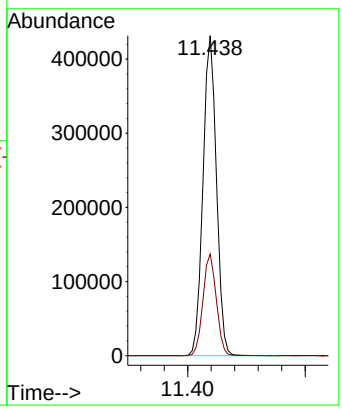





#65
Chlorobenzene
Concen: 48.595 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:112 Resp: 68464

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.8 | 27.0 | 40.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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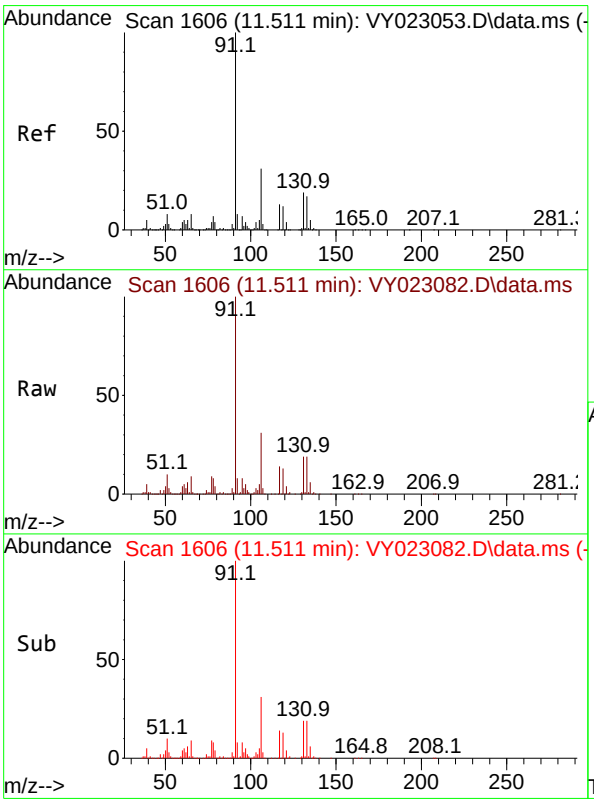
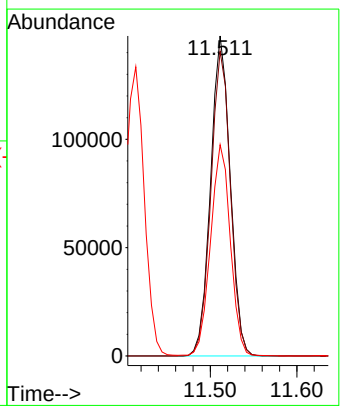
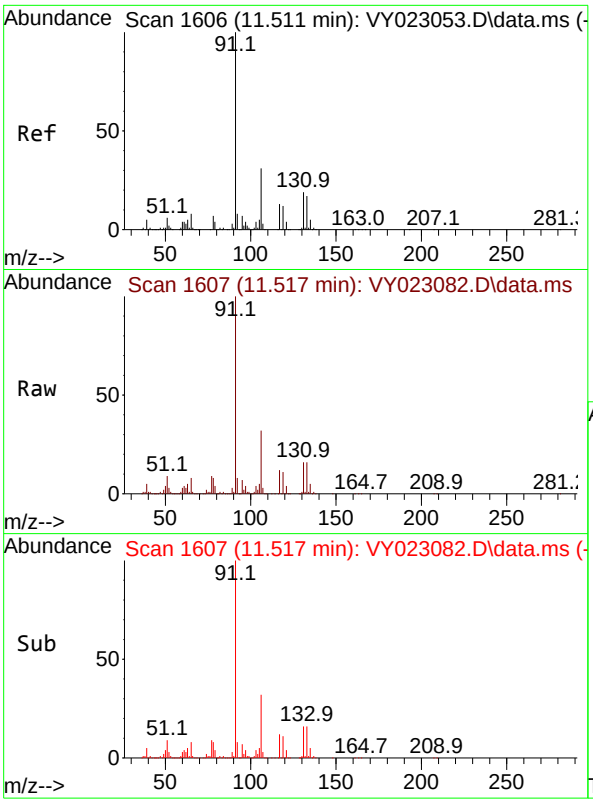



#66
1,1,1,2-Tetrachloroethane
Concen: 48.615 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:131 Resp: 232459

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.0 | 46.9 | 140.6 |
| 119 | 66.7 | 33.2 | 99.6 |

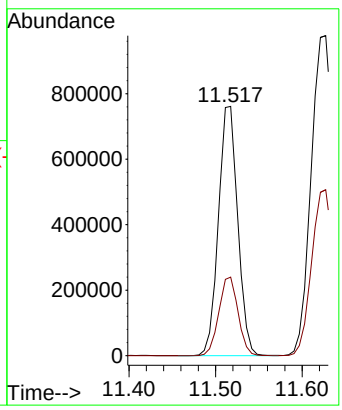





#67
Ethyl Benzene
Concen: 48.633 ug/l
RT: 11.517 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 91 Resp: 117913

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.5 | 25.0 | 37.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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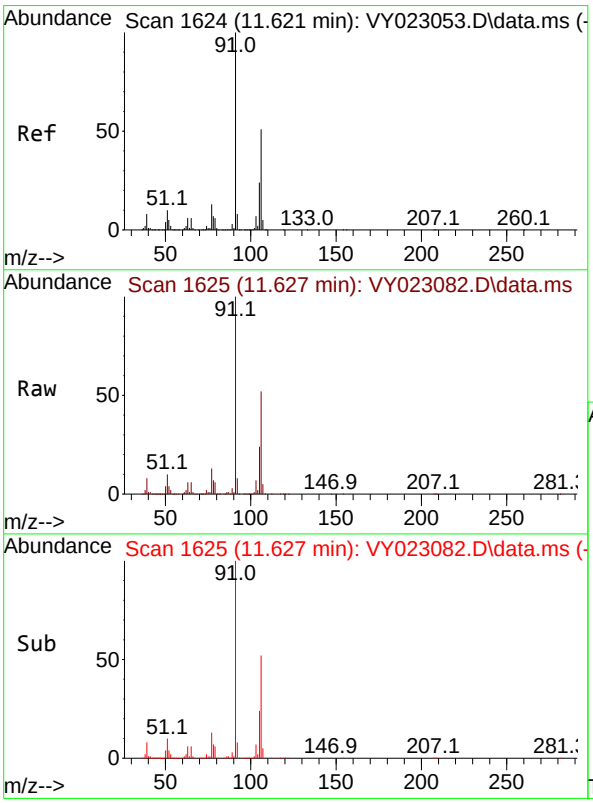
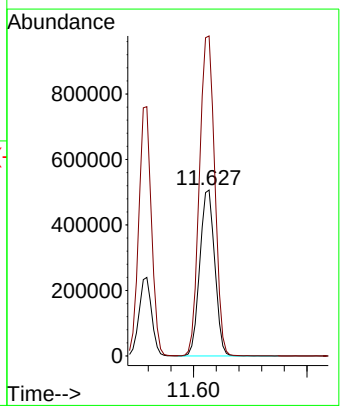
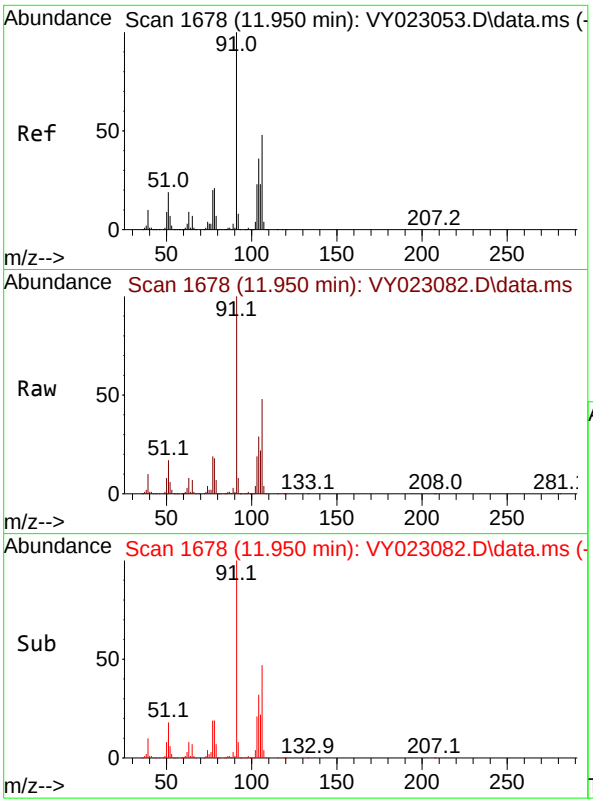



#68
m/p-Xylenes
Concen: 98.062 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:106 Resp: 928592

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 197.0 | 158.6 | 238.0 |

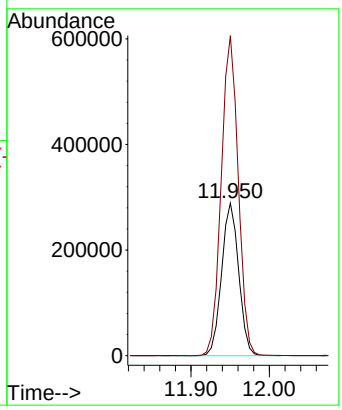





#69
o-Xylene
Concen: 49.346 ug/l
RT: 11.950 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:106 Resp: 43764

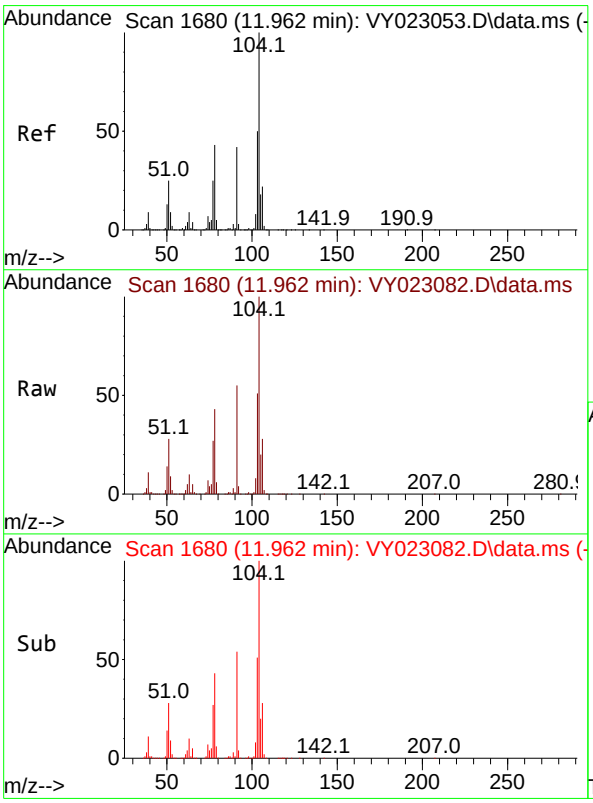
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 209.1 | 103.2 | 309.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

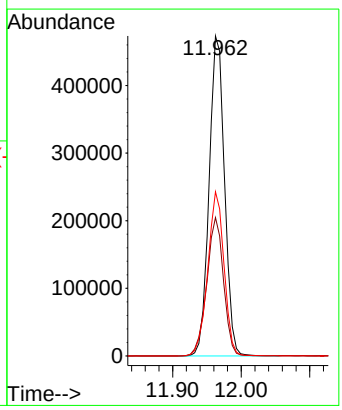
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

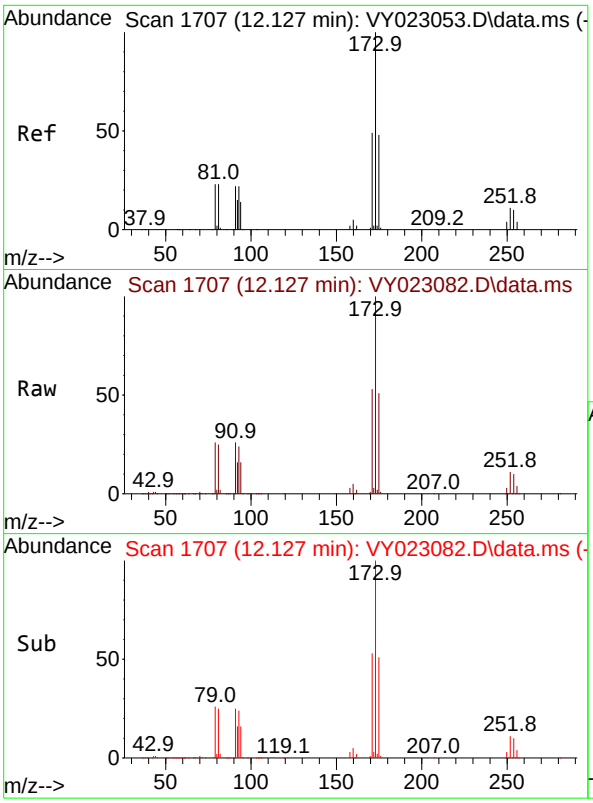



#70
Styrene
Concen: 51.107 ug/l
RT: 11.962 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:104 Resp: 741269

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 46.9 | 38.5 | 57.7 |
| 103 | 54.1 | 43.7 | 65.5 |






#71
Bromoform
Concen: 45.809 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:173 Resp: 12802

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 50.0 | 23.9 | 71.7 |
| 254 | 0.2 | 0.1 | 0.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

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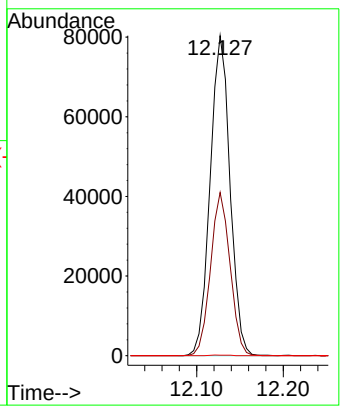
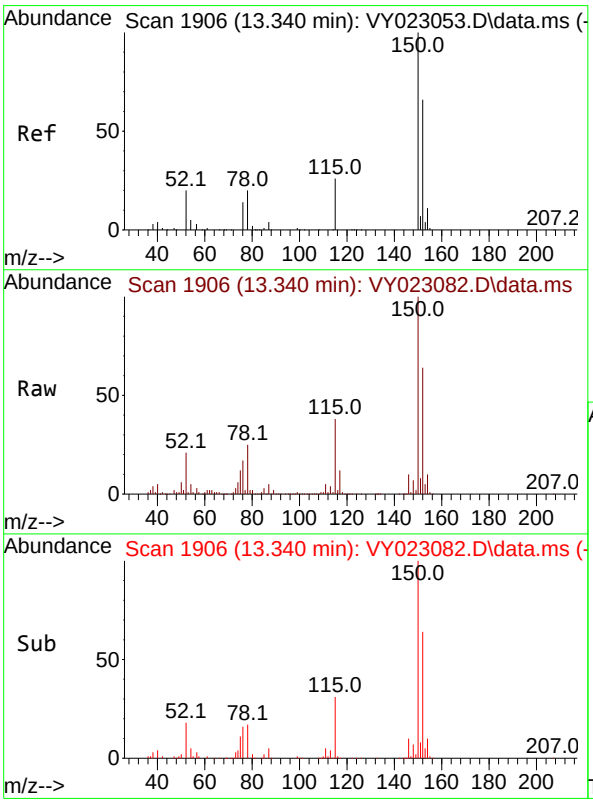
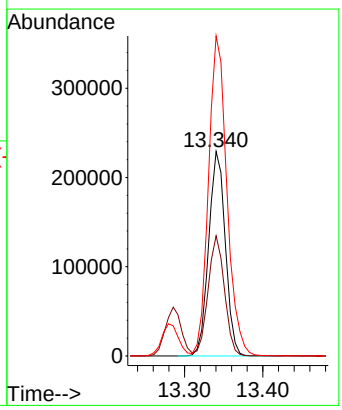


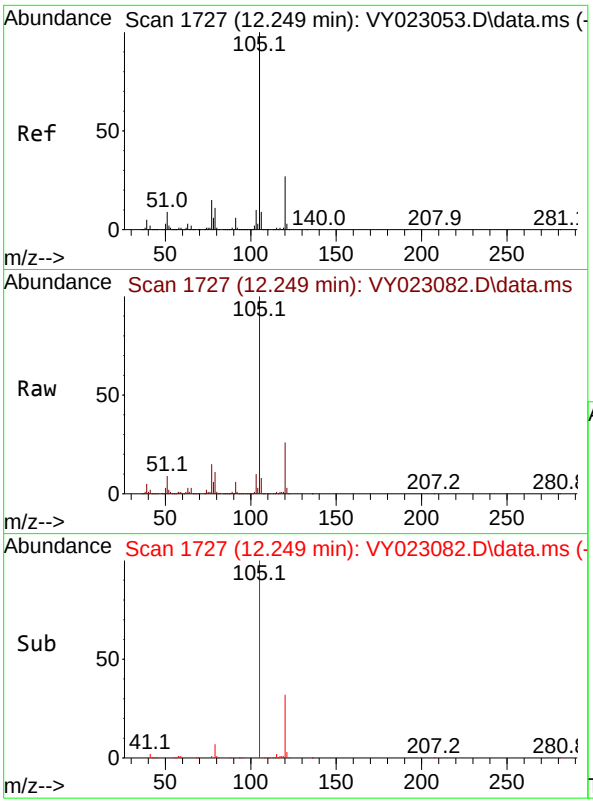




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:152 Resp: 337955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.6 | 28.2 | 84.6 |
| 150 | 172.7 | 0.0 | 348.0 |

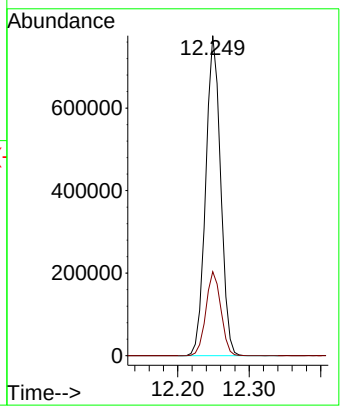





#73
Isopropylbenzene
Concen: 46.989 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:105 Resp: 112080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.4 | 13.4 | 40.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

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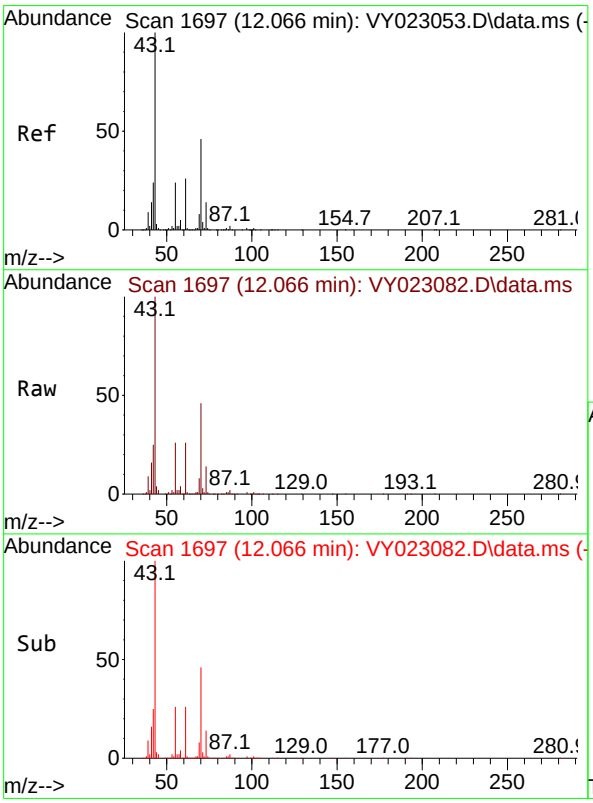
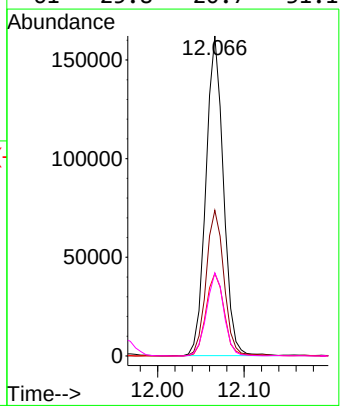
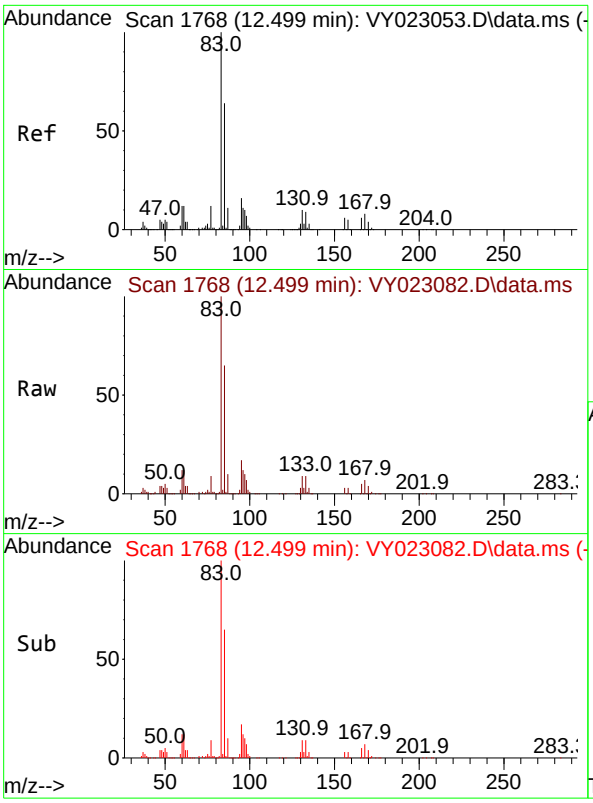



#74
N-amyl acetate
Concen: 45.070 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 43 Resp: 227982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 46.7 | 37.5 | 56.3 |
| 55 | 27.0 | 20.7 | 31.1 |
| 61 | 25.8 | 20.7 | 31.1 |

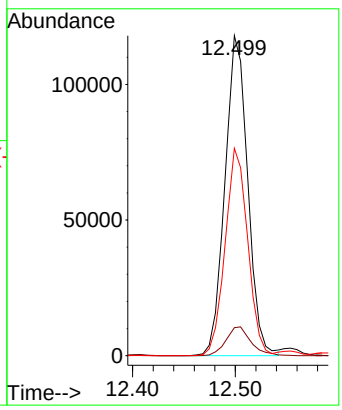





#75
1,1,2,2-Tetrachloroethane
Concen: 44.662 ug/l
RT: 12.499 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 83 Resp: 18189

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.9 | 5.1 | 15.3 |
| 85 | 64.0 | 31.8 | 95.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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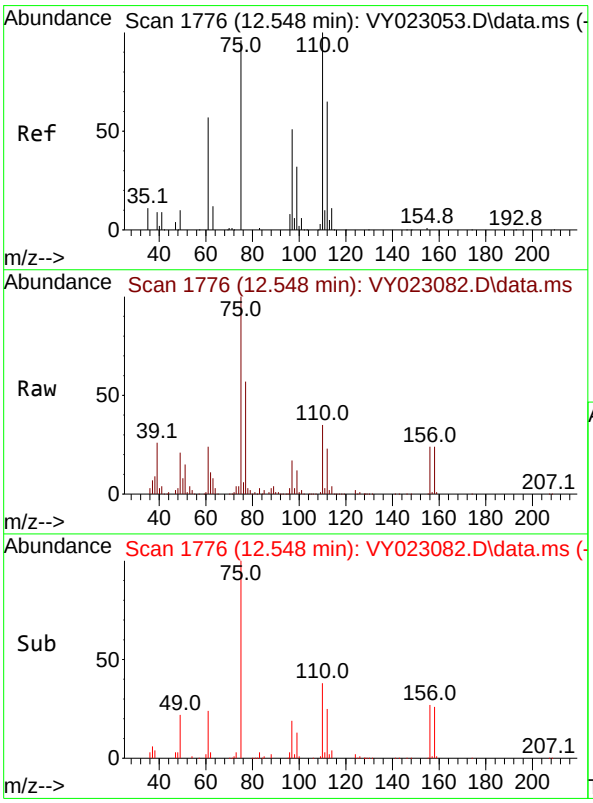
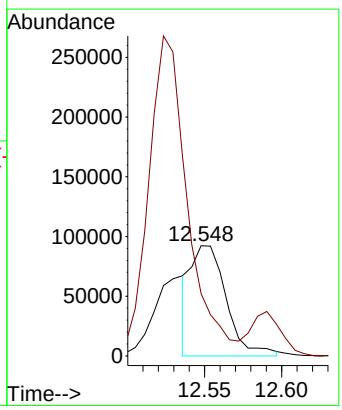
Supervised By :Semsettin Yesilyurt 08/19/2025

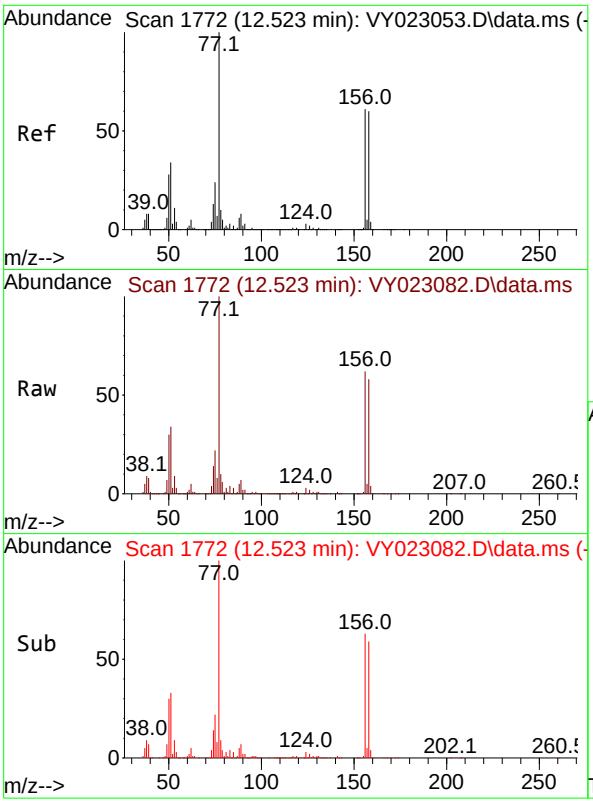



#76
1,2,3-Trichloropropane
Concen: 45.368 ug/l m
RT: 12.548 min Scan# 1776
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 75 Resp: 147973

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |

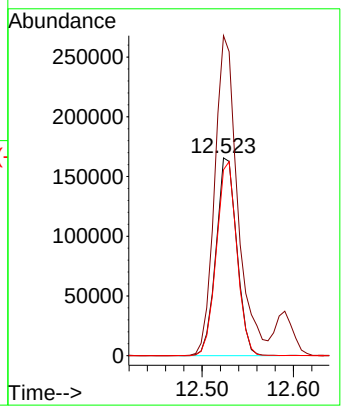





#77
Bromobenzene
Concen: 45.880 ug/l
RT: 12.523 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:156 Resp: 26108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 179.7 | 88.1 | 264.4 |
| 158 | 97.1 | 48.0 | 144.0 |




**Instrument :**
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**ClientSampleId :**
VSTDCCC050EC

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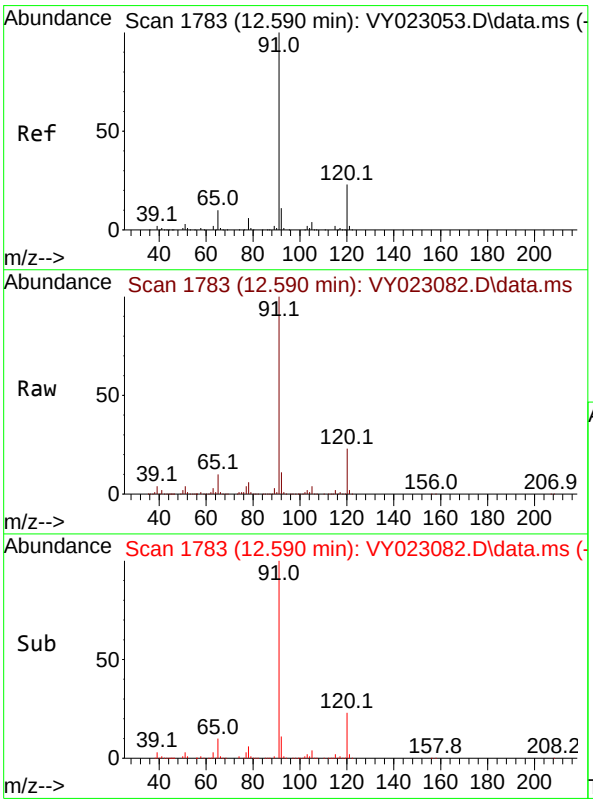
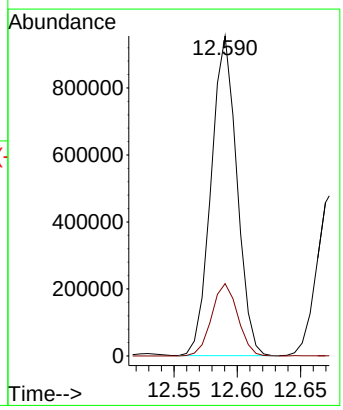
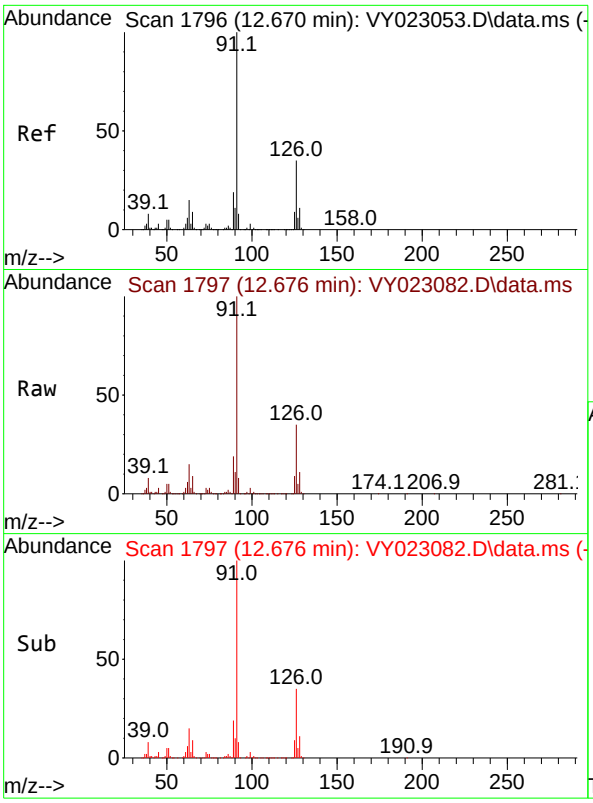



#78
n-propylbenzene
Concen: 47.608 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 91 Resp: 1351965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.9 | 11.5 | 34.5 |

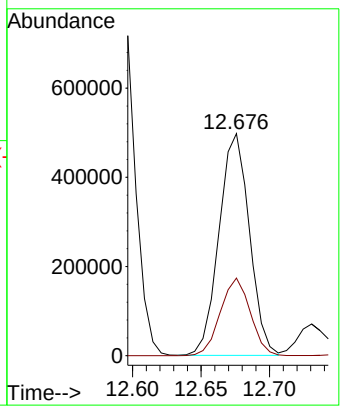





#79
2-Chlorotoluene
Concen: 47.220 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 91 Resp: 76831

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.4 | 17.4 | 52.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

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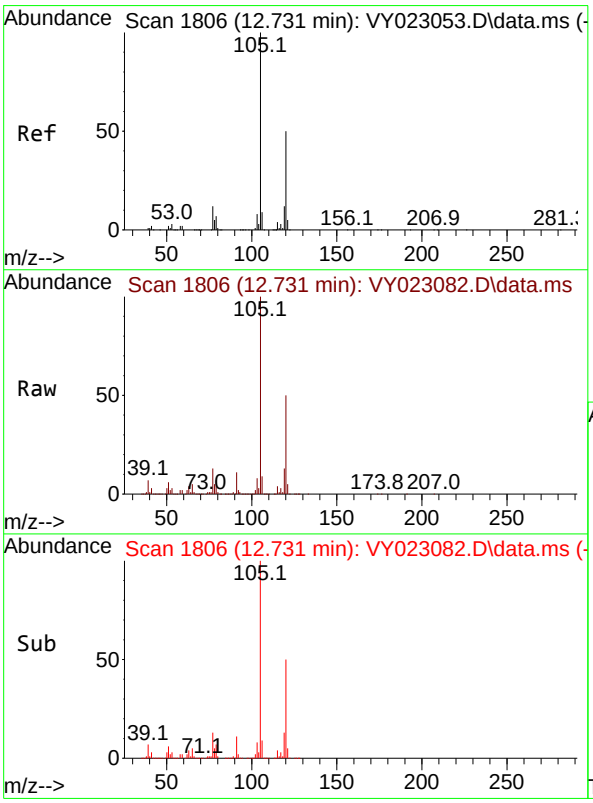
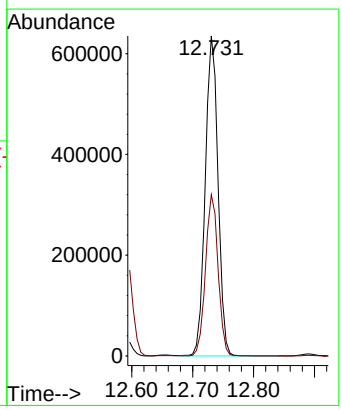
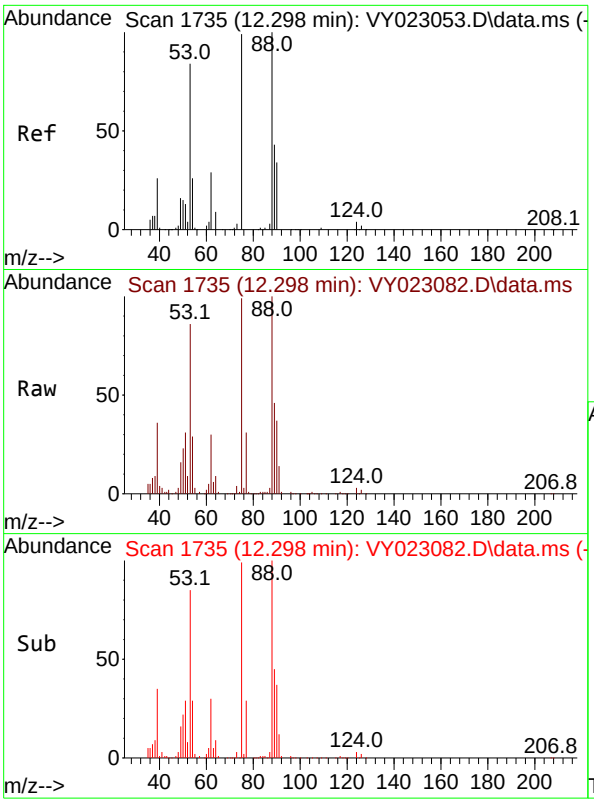



#80
1,3,5-Trimethylbenzene
Concen: 48.002 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:105 Resp: 925355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.9 | 24.8 | 74.4 |






#81
trans-1,4-Dichloro-2-butene
Concen: 41.468 ug/l
RT: 12.298 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 75 Resp: 5587

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 89.1 | 70.8 | 106.2 |
| 89 | 46.0 | 38.1 | 57.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

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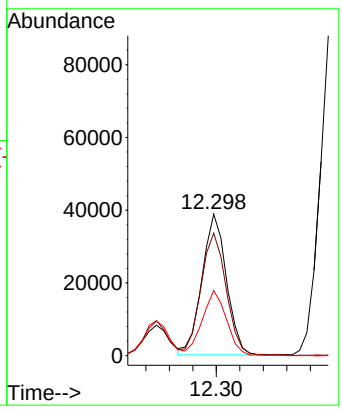
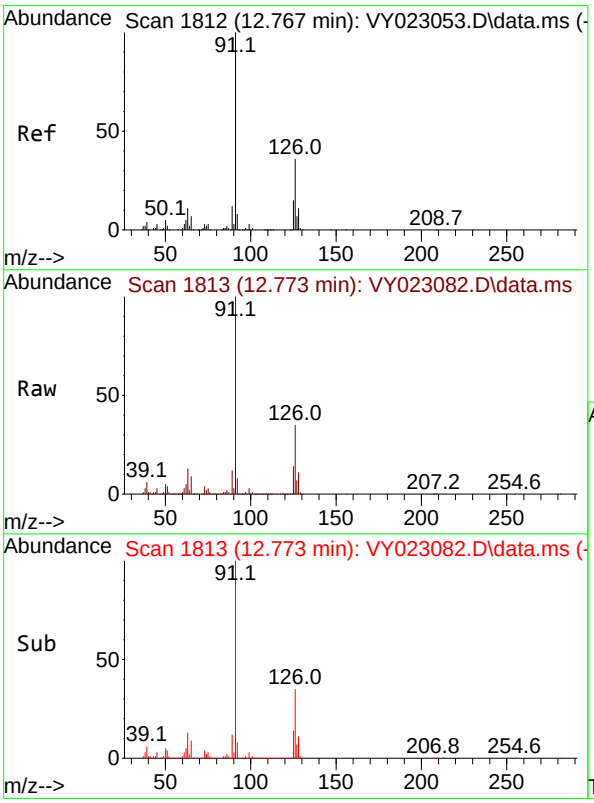
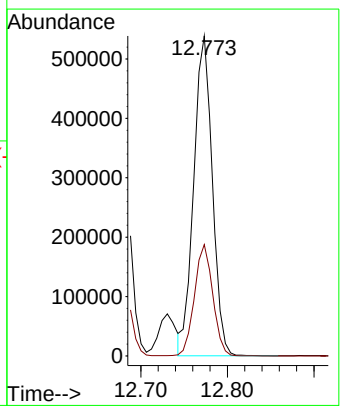


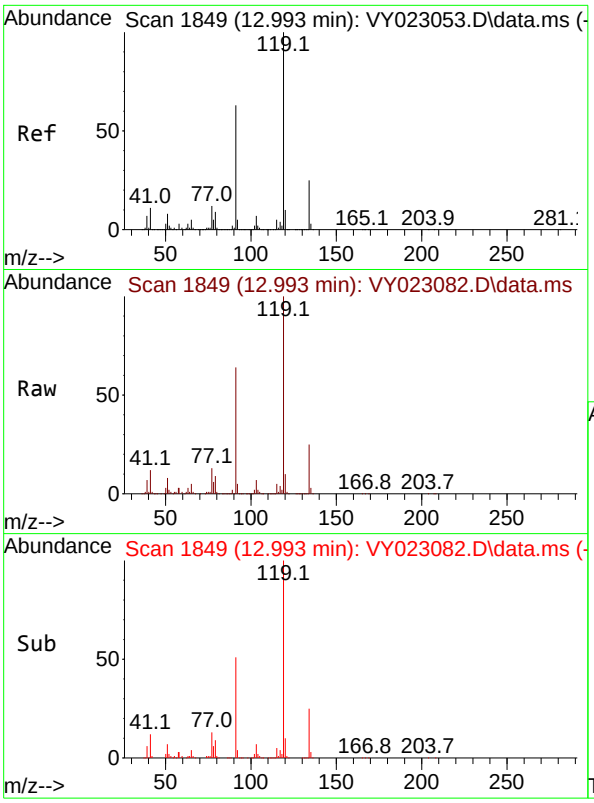




#82
4-Chlorotoluene
Concen: 47.468 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 91 Resp: 801214

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.4 | 17.3 | 52.0 |

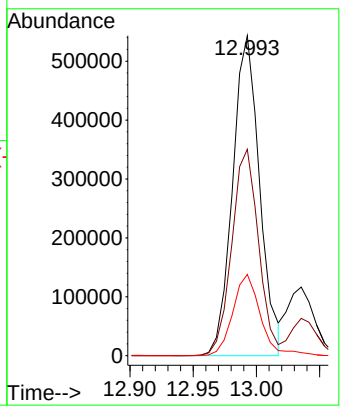





#83
tert-Butylbenzene
Concen: 46.538 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:119 Resp: 81025

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 63.8 | 31.6 | 94.8 |
| 134 | 26.0 | 12.9 | 38.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

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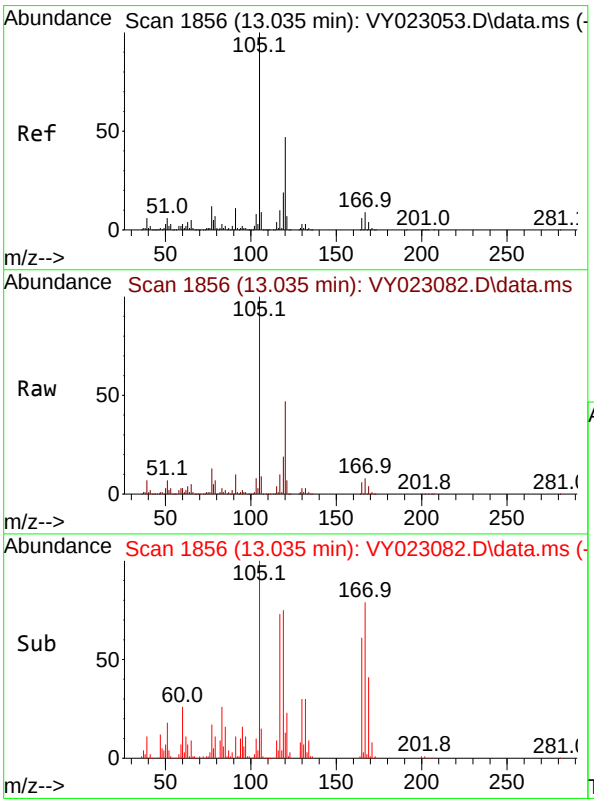
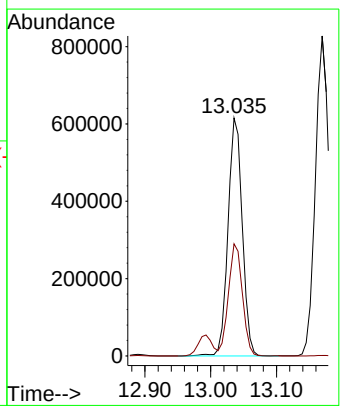
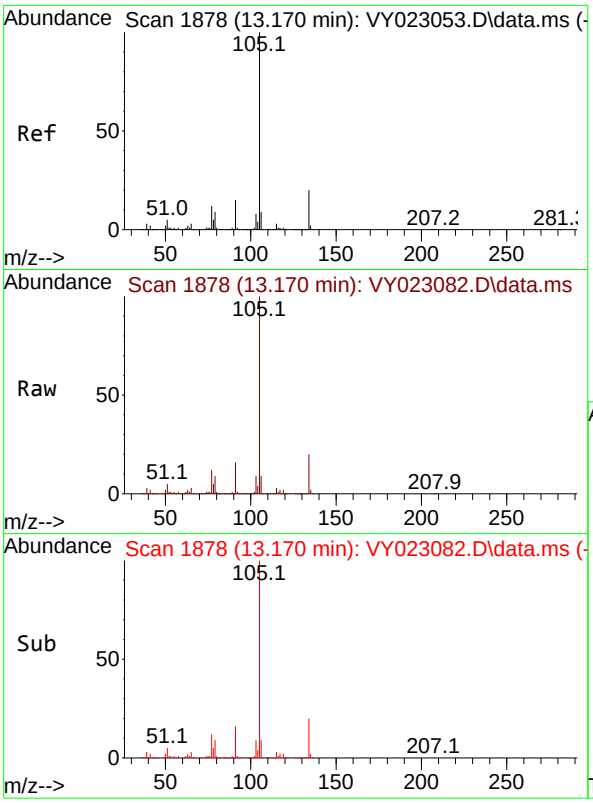



#84
1,2,4-Trimethylbenzene
Concen: 48.337 ug/l
RT: 13.035 min Scan# 1856
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:105 Resp: 927586

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.2 | 23.0 | 69.0 |

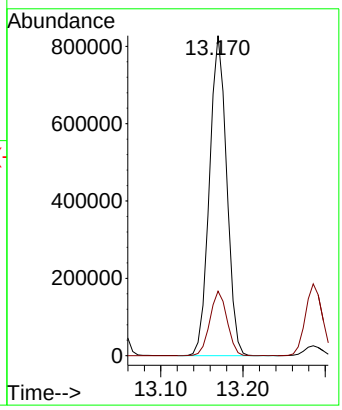





#85
sec-Butylbenzene
Concen: 47.086 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:105 Resp: 120428

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.1 | 10.2 | 30.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

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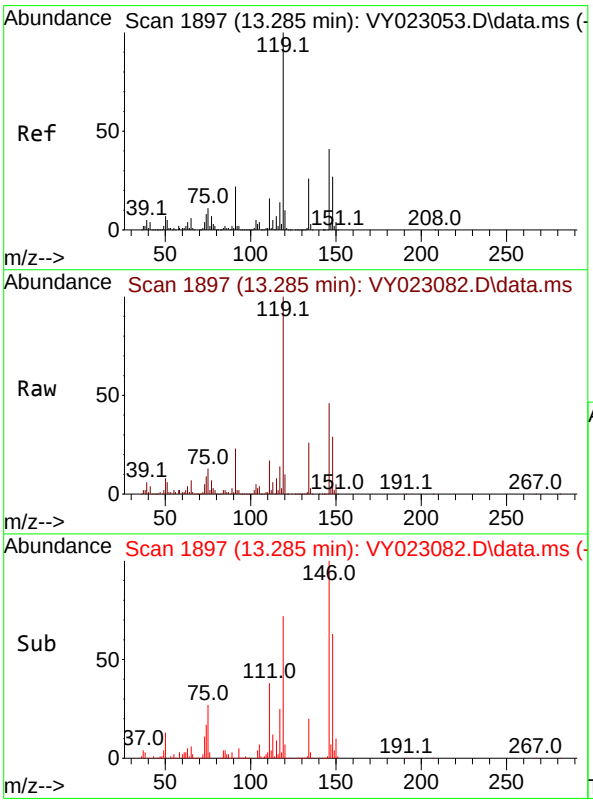
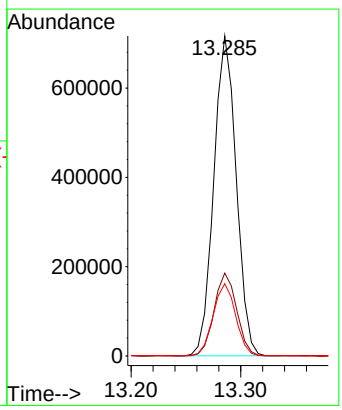
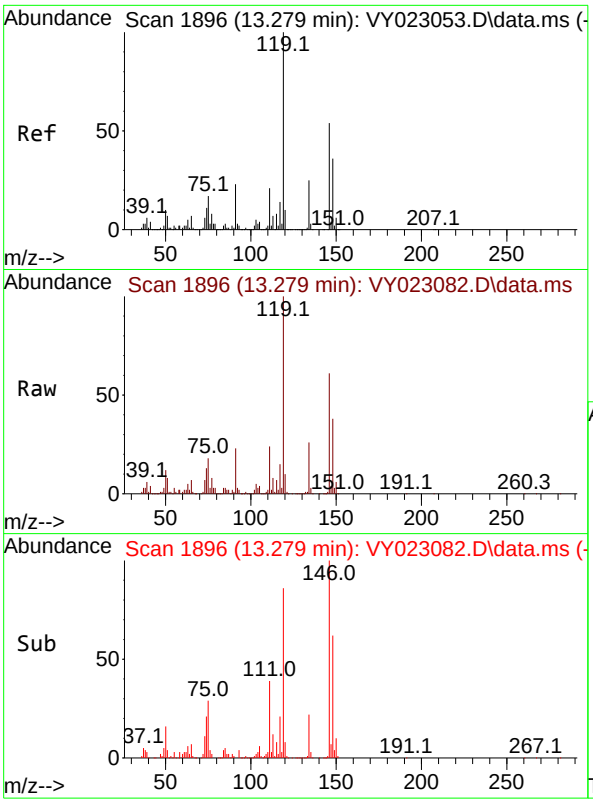



#86
p-Isopropyltoluene
Concen: 48.033 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:119 Resp: 1019726

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.0 | 13.2 | 39.6 |
| 91 | 22.7 | 11.3 | 33.8 |

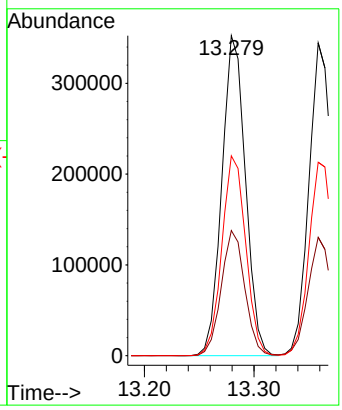





#87
1,3-Dichlorobenzene
Concen: 46.997 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:146 Resp: 52739

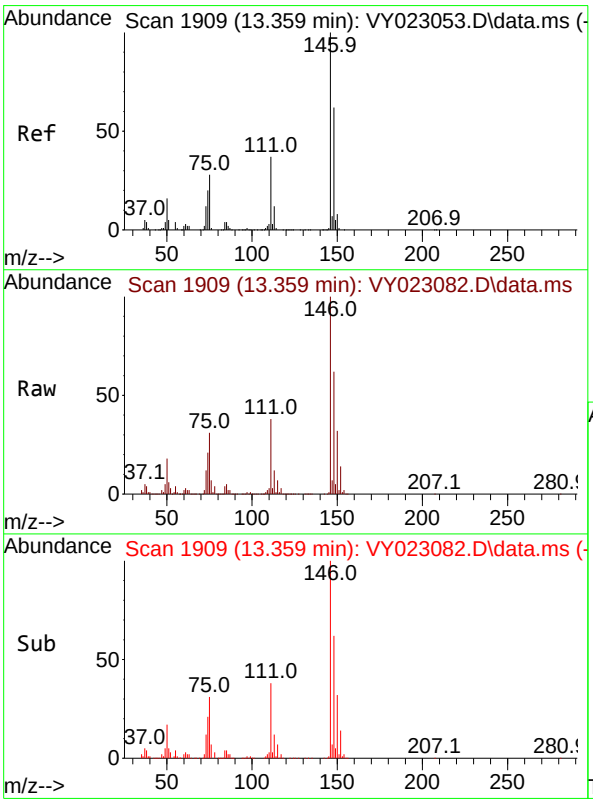
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.0 | 19.6 | 58.7 |
| 148 | 63.1 | 32.5 | 97.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

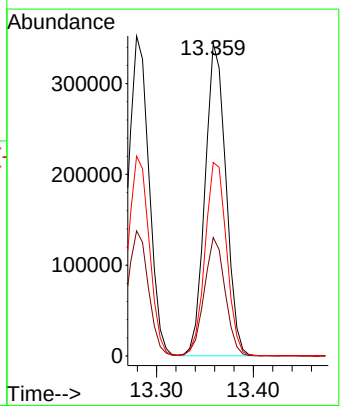
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

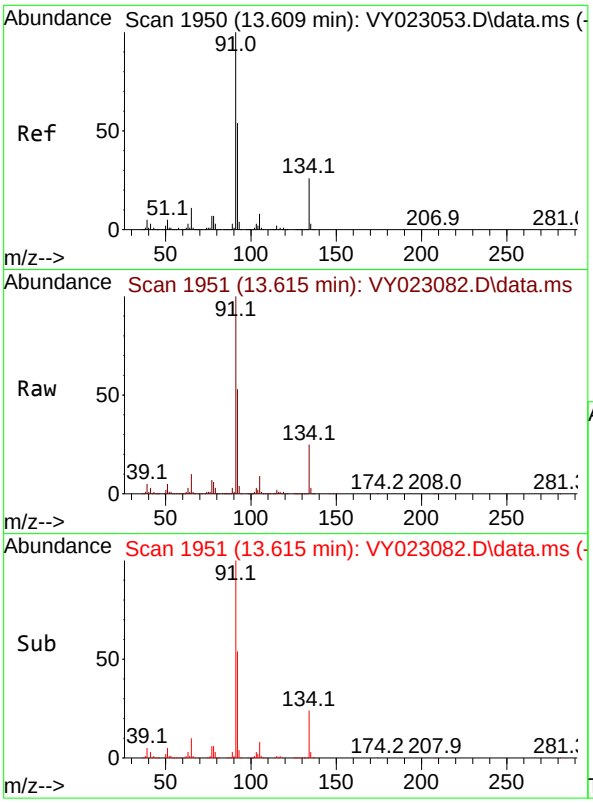



#88
1,4-Dichlorobenzene
Concen: 46.447 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:146 Resp: 517037

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 37.9 | 19.1 | 57.1 |
| 148 | 63.9 | 31.6 | 94.7 |

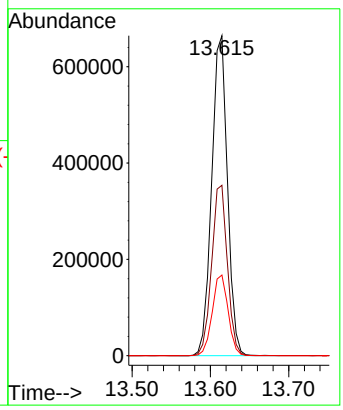





#89
n-Butylbenzene
Concen: 47.492 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 91 Resp: 92600

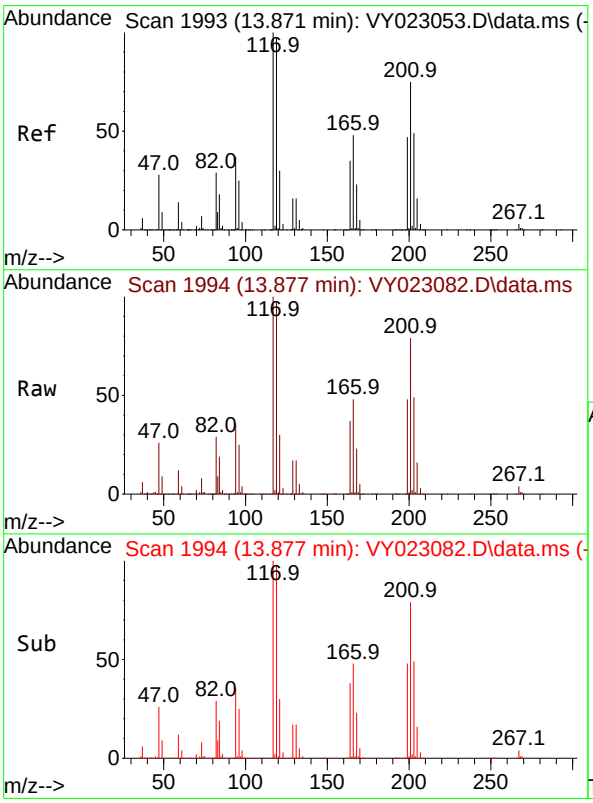
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.3 | 26.9 | 80.7 |
| 134 | 25.5 | 13.2 | 39.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

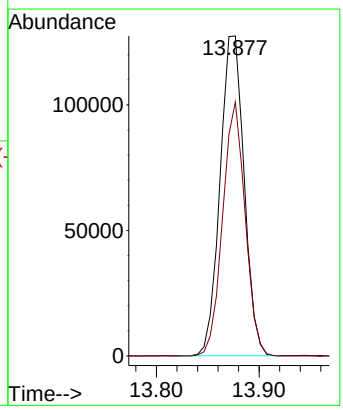
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

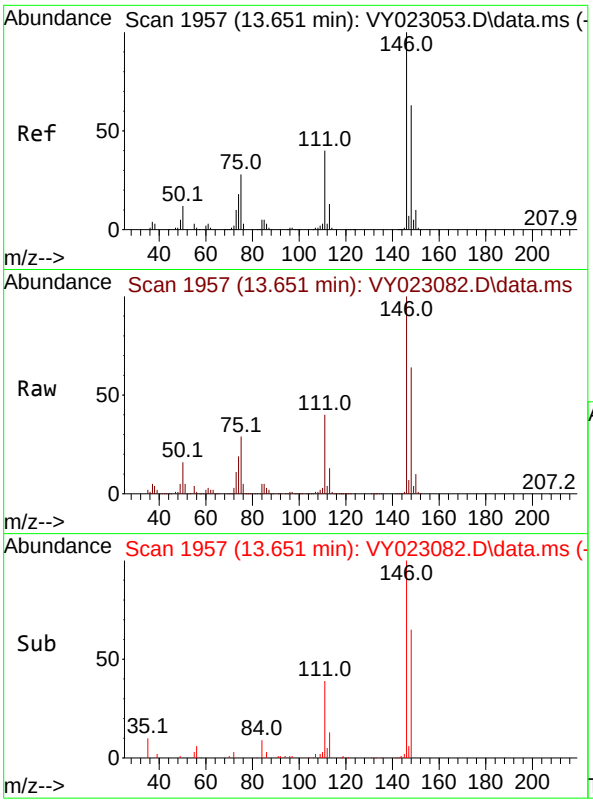



#90
Hexachloroethane
Concen: 47.698 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:117 Resp: 207292

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 73.9 | 38.4 | 115.1 |

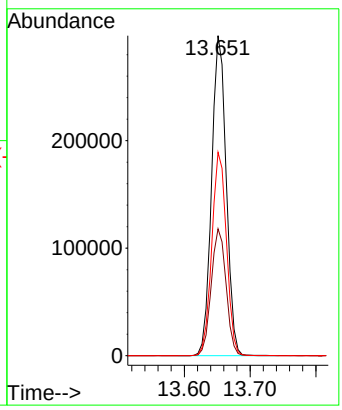





#91
1,2-Dichlorobenzene
Concen: 46.764 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:146 Resp: 46022

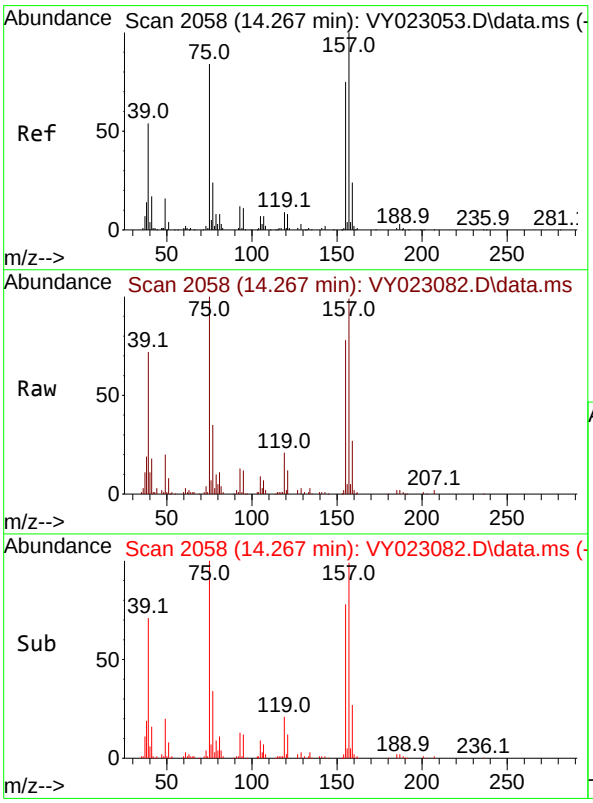
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.3 | 20.3 | 60.8 |
| 148 | 63.8 | 32.2 | 96.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

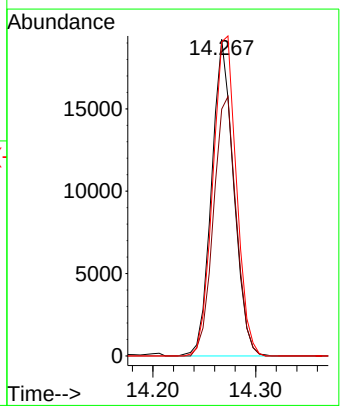
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

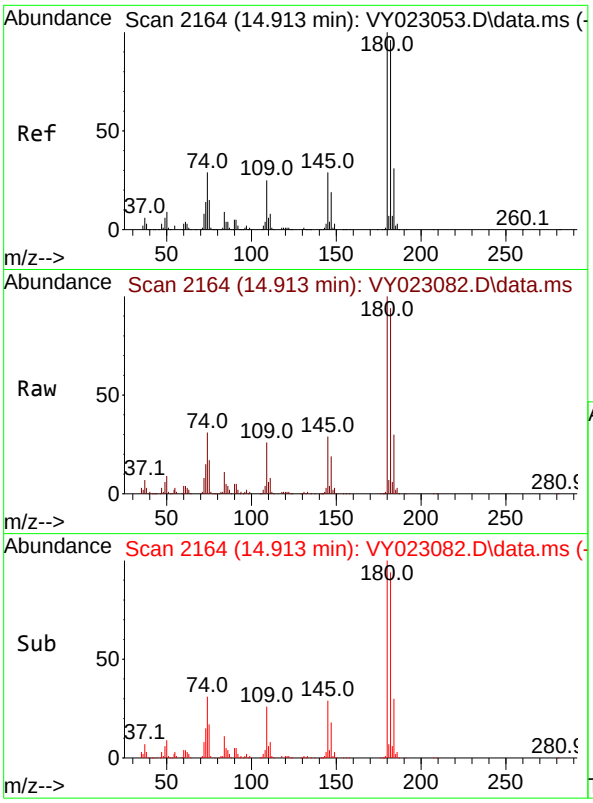



#92
1,2-Dibromo-3-Chloropropane
Concen: 45.213 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 75 Resp: 28670

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 84.2 | 43.9 | 131.6 |
| 157 | 107.8 | 57.2 | 171.6 |

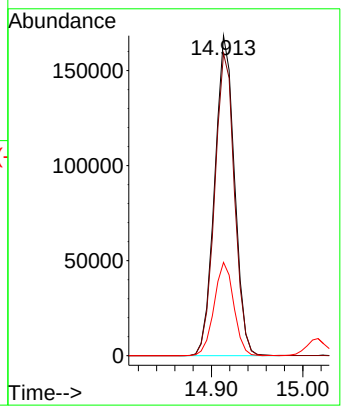





#93
1,2,4-Trichlorobenzene
Concen: 43.501 ug/l
RT: 14.913 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:180 Resp: 25317

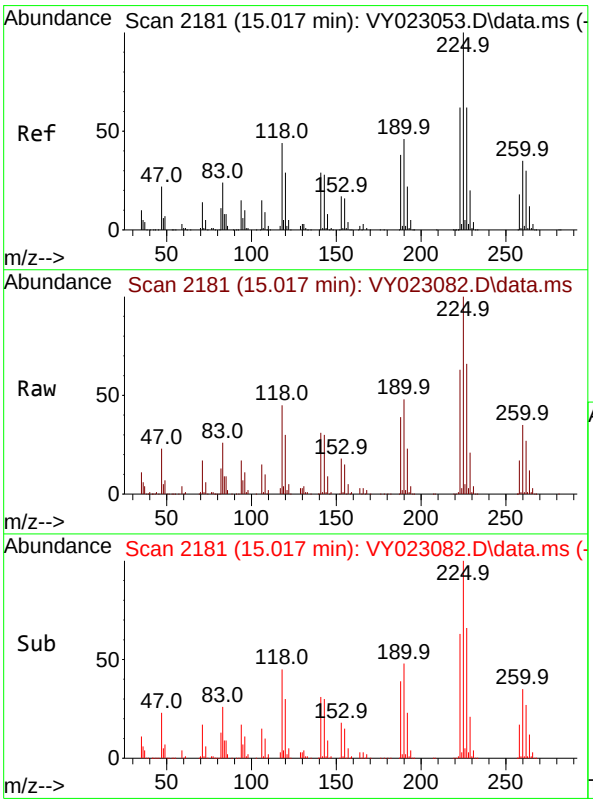
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.4 | 46.8 | 140.4 |
| 145 | 29.0 | 14.4 | 43.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

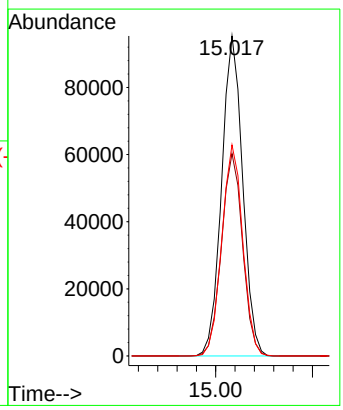
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

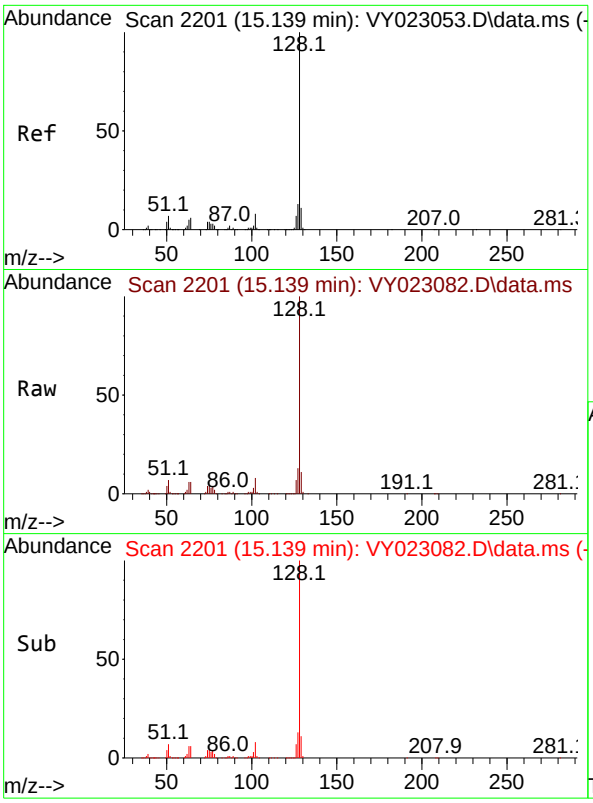



#94
Hexachlorobutadiene
Concen: 41.989 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:225 Resp: 143600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.4 | 31.3 | 93.8 |
| 227 | 65.6 | 31.5 | 94.5 |

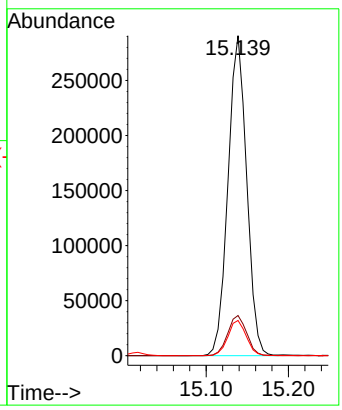





#95
Naphthalene
Concen: 46.256 ug/l
RT: 15.139 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:128 Resp: 45904

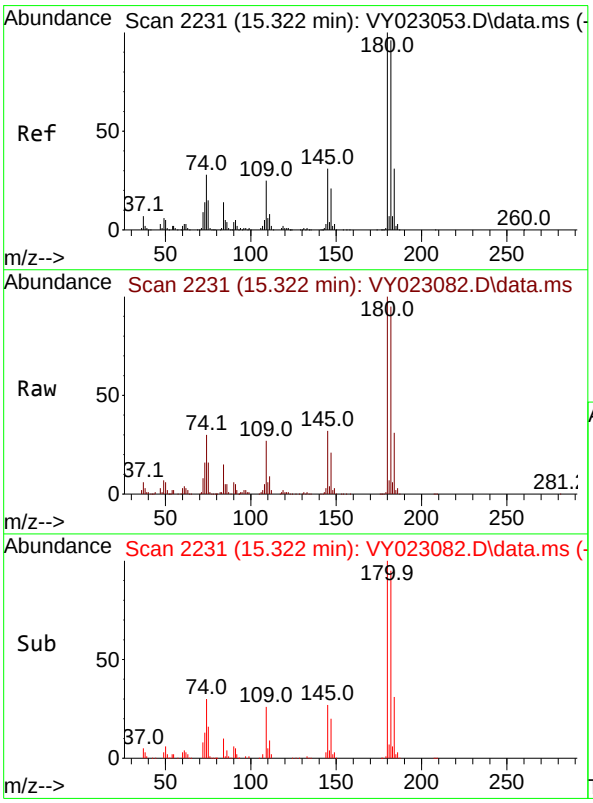
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.8 | 10.4 | 15.6 |
| 129 | 10.9 | 9.0 | 13.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

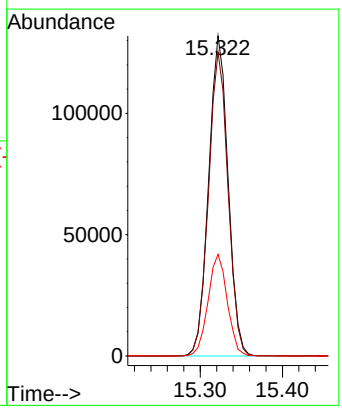
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025




#96
1,2,3-Trichlorobenzene
Concen: 43.140 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:180 Resp: 216348

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.1 | 47.9 | 143.7 |
| 145 | 31.4 | 15.9 | 47.7 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023082.D
Acq On : 13 Aug 2025 20:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Aug 14 03:01:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 82 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.408 | 0.319 | 21.8 | 75 | 0.00 |
| 3 | P | Chloromethane | 0.661 | 0.681 | -3.0 | 92 | 0.00 |
| 4 | C | Vinyl Chloride | 0.817 | 0.849 | -3.9# | 91 | 0.00 |
| 5 | T | Bromomethane | 0.610 | 0.682 | -11.8 | 104 | 0.00 |
| 6 | T | Chloroethane | 0.543 | 0.596 | -9.8 | 95 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.994 | 0.946 | 4.8 | 83 | 0.00 |
| 8 | T | Diethyl Ether | 0.263 | 0.249 | 5.3 | 81 | 0.01 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.490 | 0.456 | 6.9 | 81 | 0.00 |
| 10 | T | Methyl Iodide | 0.529 | 0.503 | 4.9 | 75 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.033 | 0.029 | 12.1 | 74 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.482 | 0.454 | 5.8# | 81 | 0.00 |
| 13 | T | Acrolein | 0.048 | 0.034 | 29.2# | 61 | 0.00 |
| 14 | T | Allyl chloride | 0.709 | 0.677 | 4.5 | 81 | 0.00 |
| 15 | T | Acrylonitrile | 0.107 | 0.104 | 2.8 | 80 | 0.00 |
| 16 | T | Acetone | 0.103 | 0.082 | 20.4 | 65 | 0.01 |
| 17 | T | Carbon Disulfide | 1.571 | 1.489 | 5.2 | 82 | 0.00 |
| 18 | T | Methyl Acetate | 0.307 | 0.326 | -6.2 | 83 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.249 | 1.220 | 2.3 | 81 | 0.00 |
| 20 | T | Methylene Chloride | 0.620 | 0.555 | 10.5 | 89 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.541 | 0.540 | 0.2 | 85 | 0.00 |
| 22 | T | Diisopropyl ether | 1.541 | 1.570 | -1.9 | 85 | 0.00 |
| 23 | T | Vinyl Acetate | 0.852 | 0.808 | 5.2 | 79 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 0.942 | 0.958 | -1.7 | 86 | 0.00 |
| 25 | T | 2-Butanone | 0.140 | 0.126 | 10.0 | 73 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.813 | 0.711 | 12.5 | 74 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.626 | 0.633 | -1.1 | 86 | 0.00 |
| 28 | T | Bromochloromethane | 0.374 | 0.394 | -5.3 | 89 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.087 | 0.083 | 4.6 | 78 | 0.00 |
| 30 | C | Chloroform | 0.971 | 0.998 | -2.8# | 87 | 0.00 |
| 31 | T | Cyclohexane | 0.888 | 0.805 | 9.3 | 81 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.862 | 0.850 | 1.4 | 83 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.477 | 0.490 | -2.7 | 87 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 85 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.299 | 0.298 | 0.3 | 87 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.445 | 0.422 | 5.2 | 83 | 0.00 |
| 37 | T | Ethyl Acetate | 0.187 | 0.166 | 11.2 | 75 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.483 | 0.456 | 5.6 | 83 | 0.00 |
| 39 | T | Methylcyclohexane | 0.586 | 0.544 | 7.2 | 82 | 0.00 |
| 40 | TM | Benzene | 1.370 | 1.347 | 1.7 | 86 | 0.00 |
| 41 | T | Methacrylonitrile | 0.108 | 0.108 | 0.0 | 84 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.356 | 0.351 | 1.4 | 86 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.378 | 0.348 | 7.9 | 80 | 0.00 |
| 44 | TM | Trichloroethene | 0.354 | 0.339 | 4.2 | 85 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.315 | 0.316 | -0.3# | 87 | 0.00 |
| 46 | T | Dibromomethane | 0.181 | 0.181 | 0.0 | 86 | 0.00 |
| 47 | T | Bromodichloromethane | 0.466 | 0.462 | 0.9 | 86 | 0.00 |
| 48 | T | Methyl methacrylate | 0.181 | 0.168 | 7.2 | 76 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023082.D
Acq On : 13 Aug 2025 20:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Aug 14 03:01:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 0.002 | 0.002 | 0.0 | 81 | 0.00 |
| 50 | S | Toluene-d8 | 1.169 | 1.161 | 0.7 | 87 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.195 | 0.184 | 5.6 | 79 | 0.00 |
| 52 | CM | Toluene | 0.870 | 0.868 | 0.2# | 86 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.422 | 0.400 | 5.2 | 81 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.499 | 0.478 | 4.2 | 82 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.242 | 0.234 | 3.3 | 84 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.310 | 0.299 | 3.5 | 80 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.411 | 0.403 | 1.9 | 85 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.146 | 0.154 | -5.5 | 85 | 0.00 |
| 59 | T | 2-Hexanone | 0.133 | 0.122 | 8.3 | 76 | 0.00 |
| 60 | T | Dibromochloromethane | 0.320 | 0.313 | 2.2 | 84 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.228 | 0.222 | 2.6 | 84 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.376 | 0.379 | -0.8 | 87 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 87 | 0.00 |
| 64 | T | Tetrachloroethene | 0.446 | 0.442 | 0.9 | 88 | 0.00 |
| 65 | PM | Chlorobenzene | 1.079 | 1.048 | 2.9 | 86 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.366 | 0.356 | 2.7 | 86 | 0.00 |
| 67 | C | Ethyl Benzene | 1.856 | 1.805 | 2.7# | 84 | 0.00 |
| 68 | T | m/p-Xylenes | 0.725 | 0.711 | 1.9 | 86 | 0.00 |
| 69 | T | o-Xylene | 0.679 | 0.670 | 1.3 | 85 | 0.00 |
| 70 | T | Styrene | 1.110 | 1.135 | -2.3 | 88 | 0.00 |
| 71 | P | Bromoform | 0.214 | 0.196 | 8.4 | 80 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 89 | 0.00 |
| 73 | T | Isopropylbenzene | 3.529 | 3.316 | 6.0 | 85 | 0.00 |
| 74 | T | N-amyl acetate | 0.748 | 0.675 | 9.8 | 79 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.603 | 0.538 | 10.8 | 82 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.483 | 0.438 | 9.3 | 73 | 0.00 |
| 77 | T | Bromobenzene | 0.842 | 0.773 | 8.2 | 83 | 0.00 |
| 78 | T | n-propylbenzene | 4.201 | 4.000 | 4.8 | 85 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.407 | 2.273 | 5.6 | 85 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.852 | 2.738 | 4.0 | 86 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.199 | 0.165 | 17.1 | 75 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.497 | 2.371 | 5.0 | 86 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.576 | 2.398 | 6.9 | 83 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.839 | 2.745 | 3.3 | 87 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.784 | 3.563 | 5.8 | 84 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.141 | 3.017 | 3.9 | 85 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.660 | 1.561 | 6.0 | 87 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.647 | 1.530 | 7.1 | 85 | 0.00 |
| 89 | T | n-Butylbenzene | 2.885 | 2.740 | 5.0 | 84 | 0.00 |
| 90 | T | Hexachloroethane | 0.643 | 0.613 | 4.7 | 87 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.456 | 1.362 | 6.5 | 86 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.094 | 0.085 | 9.6 | 80 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.861 | 0.749 | 13.0 | 79 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.506 | 0.425 | 16.0 | 77 | 0.00 |
| 95 | T | Naphthalene | 1.468 | 1.358 | 7.5 | 82 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023082.D
Acq On : 13 Aug 2025 20:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Aug 14 03:01:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 0.742 | 0.640 | 13.7 | 79 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023082.D
Acq On : 13 Aug 2025 20:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Aug 14 03:01:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 82 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 39.105 | 21.8 | 75 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 51.531 | -3.1 | 92 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 51.951 | -3.9# | 91 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 55.884 | -11.8 | 104 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 54.827 | -9.7 | 95 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 47.599 | 4.8 | 83 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 47.275 | 5.5 | 81 | 0.01 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 46.513 | 7.0 | 81 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 47.564 | 4.9 | 75 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 218.366 | 12.7 | 74 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 47.150 | 5.7# | 81 | 0.00 |
| 13 | T | Acrolein | 250.000 | 175.306 | 29.9# | 61 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 47.744 | 4.5 | 81 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 242.199 | 3.1 | 80 | 0.00 |
| 16 | T | Acetone | 250.000 | 198.426 | 20.6 | 65 | 0.01 |
| 17 | T | Carbon Disulfide | 50.000 | 47.377 | 5.2 | 82 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 53.111 | -6.2 | 83 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 48.863 | 2.3 | 81 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 51.824 | -3.6 | 89 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 49.867 | 0.3 | 85 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 50.952 | -1.9 | 85 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 237.183 | 5.1 | 79 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 50.854 | -1.7 | 86 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 224.999 | 10.0 | 73 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 43.733 | 12.5 | 74 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 50.561 | -1.1 | 86 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 52.662 | -5.3 | 89 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 238.509 | 4.6 | 78 | 0.00 |
| 30 | C | Chloroform | 50.000 | 51.354 | -2.7# | 87 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 45.365 | 9.3 | 81 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 49.325 | 1.3 | 83 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 51.443 | -2.9 | 87 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 85 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 49.874 | 0.3 | 87 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 47.457 | 5.1 | 83 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 44.531 | 10.9 | 75 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 47.191 | 5.6 | 83 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 46.461 | 7.1 | 82 | 0.00 |
| 40 | TM | Benzene | 50.000 | 49.159 | 1.7 | 86 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 50.010 | -0.0 | 84 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 49.294 | 1.4 | 86 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 46.064 | 7.9 | 80 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 47.865 | 4.3 | 85 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 50.153 | -0.3# | 87 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 49.874 | 0.3 | 86 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 49.561 | 0.9 | 86 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 46.388 | 7.2 | 76 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023082.D
Acq On : 13 Aug 2025 20:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Aug 14 03:01:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 1000.000 | 946.941 | 5.3 | 81 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 49.680 | 0.6 | 87 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 235.707 | 5.7 | 79 | 0.00 |
| 52 | CM | Toluene | 50.000 | 49.890 | 0.2# | 86 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 47.408 | 5.2 | 81 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 47.881 | 4.2 | 82 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 48.399 | 3.2 | 84 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 48.164 | 3.7 | 80 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 49.039 | 1.9 | 85 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 263.718 | -5.5 | 85 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 229.542 | 8.2 | 76 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 48.956 | 2.1 | 84 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 48.817 | 2.4 | 84 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 50.453 | -0.9 | 87 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 87 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 49.476 | 1.0 | 88 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 48.595 | 2.8 | 86 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 48.615 | 2.8 | 86 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 48.633 | 2.7# | 84 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 98.062 | 1.9 | 86 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 49.346 | 1.3 | 85 | 0.00 |
| 70 | T | Styrene | 50.000 | 51.107 | -2.2 | 88 | 0.00 |
| 71 | P | Bromoform | 50.000 | 45.809 | 8.4 | 80 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 89 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 46.989 | 6.0 | 85 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 45.070 | 9.9 | 79 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 44.662 | 10.7 | 82 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 45.368 | 9.3 | 73 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 45.880 | 8.2 | 83 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 47.608 | 4.8 | 85 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 47.220 | 5.6 | 85 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 48.002 | 4.0 | 86 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 41.468 | 17.1 | 75 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 47.468 | 5.1 | 86 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 46.538 | 6.9 | 83 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 48.337 | 3.3 | 87 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 47.086 | 5.8 | 84 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 48.033 | 3.9 | 85 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 46.997 | 6.0 | 87 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 46.447 | 7.1 | 85 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 47.492 | 5.0 | 84 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 47.698 | 4.6 | 87 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 46.764 | 6.5 | 86 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 45.213 | 9.6 | 80 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 43.501 | 13.0 | 79 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 41.989 | 16.0 | 77 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 46.256 | 7.5 | 82 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023082.D
Acq On : 13 Aug 2025 20:00
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Aug 14 03:01:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 43.140 | 13.7 | 79 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

## VOLATILE CONTINUING CALIBRATION CHECK

| | | | |
|---|---|---|---|
| Lab Name: | Alliance | Contract: | FIRS02 |
| Lab Code: | ACE | SDG No.: | Q2819 |
| Instrument ID: | MSVOA_Y | Calibration Date/Time: | 08/14/2025 10:17 |
| Lab File ID: | VY023084.D | Init. Calib. Date(s): | 08/12/2025 08/12/2025 |
| Heated Purge: (Y/N) | Y | Init. Calib. Time(s): | 14:54 16:47 |

GC Column: RXI-624 ID: 0.25 (mm)

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.408 | 0.368 | | -9.8 | 20 |
| Chloromethane | 0.661 | 0.738 | 0.1 | 11.65 | 20 |
| Vinyl Chloride | 0.817 | 0.946 | | 15.79 | 20 |
| Bromomethane | 0.610 | 0.701 | | 14.92 | 20 |
| Chloroethane | 0.543 | 0.665 | | 22.47 | 20 |
| Trichlorofluoromethane | 0.994 | 1.067 | | 7.34 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.490 | 0.530 | | 8.16 | 20 |
| 1,1-Dichloroethene | 0.482 | 0.512 | | 6.22 | 20 |
| Acetone | 0.103 | 0.106 | | 2.91 | 20 |
| Carbon Disulfide | 1.571 | 1.688 | | 7.45 | 20 |
| Methyl tert-butyl Ether | 1.249 | 1.278 | | 2.32 | 20 |
| Methyl Acetate | 0.307 | 0.311 | | 1.3 | 20 |
| Methylene Chloride | 0.620 | 0.608 | | -1.93 | 20 |
| trans-1,2-Dichloroethene | 0.541 | 0.599 | | 10.72 | 20 |
| 1,1-Dichloroethane | 0.942 | 1.065 | 0.1 | 13.06 | 20 |
| Cyclohexane | 0.888 | 0.899 | | 1.24 | 20 |
| 2-Butanone | 0.140 | 0.142 | | 1.43 | 20 |
| Carbon Tetrachloride | 0.483 | 0.543 | | 12.42 | 20 |
| cis-1,2-Dichloroethene | 0.626 | 0.688 | | 9.9 | 20 |
| Bromochloromethane | 0.374 | 0.440 | | 17.65 | 20 |
| Chloroform | 0.971 | 1.102 | | 13.49 | 20 |
| 1,1,1-Trichloroethane | 0.862 | 0.962 | | 11.6 | 20 |
| Methylcyclohexane | 0.586 | 0.637 | | 8.7 | 20 |
| Benzene | 1.370 | 1.568 | | 14.45 | 20 |
| 1,2-Dichloroethane | 0.356 | 0.398 | | 11.8 | 20 |
| Trichloroethene | 0.354 | 0.397 | | 12.15 | 20 |
| 1,2-Dichloropropane | 0.315 | 0.366 | | 16.19 | 20 |
| Bromodichloromethane | 0.466 | 0.532 | | 14.16 | 20 |
| 4-Methyl-2-Pentanone | 0.195 | 0.203 | | 4.1 | 20 |
| Toluene | 0.870 | 1.000 | | 14.94 | 20 |
| t-1,3-Dichloropropene | 0.422 | 0.465 | | 10.19 | 20 |
| cis-1,3-Dichloropropene | 0.499 | 0.557 | | 11.62 | 20 |
| 1,1,2-Trichloroethane | 0.242 | 0.267 | | 10.33 | 20 |
| 2-Hexanone | 0.133 | 0.137 | | 3.01 | 20 |
| Dibromochloromethane | 0.320 | 0.358 | | 11.88 | 20 |
| 1,2-Dibromoethane | 0.228 | 0.247 | | 8.33 | 20 |
| Tetrachloroethene | 0.446 | 0.495 | | 10.99 | 20 |
| Chlorobenzene | 1.079 | 1.192 | 0.3 | 10.47 | 20 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

## VOLATILE CONTINUING CALIBRATION CHECK

| | | | |
|---|---|---|---|
| Lab Name: | Alliance | Contract: | FIRS02 |
| Lab Code: | ACE | SDG No.: | Q2819 |
| Instrument ID: | MSVOA_Y | Calibration Date/Time: | 08/14/2025 10:17 |
| Lab File ID: | VY023084.D | Init. Calib. Date(s): | 08/12/2025 08/12/2025 |
| Heated Purge: (Y/N) | Y | Init. Calib. Time(s): | 14:54 16:47 |

GC Column: RXI-624 ID: 0.25 (mm)

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Ethyl Benzene | 1.856 | 2.084 | | 12.28 | 20 |
| m/p-Xylenes | 0.725 | 0.824 | | 13.65 | 20 |
| o-Xylene | 0.679 | 0.765 | | 12.67 | 20 |
| Styrene | 1.110 | 1.298 | | 16.94 | 20 |
| Bromoform | 0.214 | 0.221 | 0.1 | 3.27 | 20 |
| Isopropylbenzene | 3.529 | 3.976 | | 12.67 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.603 | 0.622 | 0.3 | 3.15 | 20 |
| 1,3-Dichlorobenzene | 1.660 | 1.864 | | 12.29 | 20 |
| 1,4-Dichlorobenzene | 1.647 | 1.816 | | 10.26 | 20 |
| 1,2-Dichlorobenzene | 1.456 | 1.620 | | 11.26 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.094 | 0.097 | | 3.19 | 20 |
| 1,2,4-Trichlorobenzene | 0.861 | 0.892 | | 3.6 | 20 |
| 1,2,3-Trichlorobenzene | 0.742 | 0.759 | | 2.29 | 20 |
| 1,2-Dichloroethane-d4 | 0.477 | 0.540 | | 13.21 | 20 |
| Dibromofluoromethane | 0.299 | 0.344 | | 15.05 | 20 |
| Toluene-d8 | 1.169 | 1.352 | | 15.65 | 20 |
| 4-Bromofluorobenzene | 0.376 | 0.427 | | 13.56 | 20 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023084.D
Acq On : 14 Aug 2025 10:17
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 14:46:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 410930 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 647551 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 582049 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 290049 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 221987 | 56.681 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 113.360% | | | |
| 35) Dibromofluoromethane | 7.628 | 113 | 223080 | 57.573 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 115.140% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 875441 | 57.835 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 115.660% | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 276611 | 56.822 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 113.640% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.861 | 85 | 151094 | 45.046 | ug/l | 100 |
| 3) Chloromethane | 2.068 | 50 | 303228 | 55.814 | ug/l | 96 |
| 4) Vinyl Chloride | 2.202 | 62 | 388943 | 57.916 | ug/l | 98 |
| 5) Bromomethane | 2.592 | 94 | 288079 | 57.438 | ug/l | 99 |
| 6) Chloroethane | 2.732 | 64 | 273182 | 61.186 | ug/l | 98 |
| 7) Trichlorofluoromethane | 3.050 | 101 | 438280 | 53.672 | ug/l | 97 |
| 8) Diethyl Ether | 3.452 | 74 | 108282 | 50.120 | ug/l | 98 |
| 9) 1,1,2-Trichlorotrifluo... | 3.812 | 101 | 217833 | 54.071 | ug/l | 99 |
| 10) Methyl Iodide | 4.001 | 142 | 268014 | 61.652 | ug/l | 98 |
| 11) Tert butyl alcohol | 4.854 | 59 | 58207 | 216.906 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 210368 | 53.125 | ug/l | 99 |
| 13) Acrolein | 3.647 | 56 | 70939 | 180.505 | ug/l | 95 |
| 14) Allyl chloride | 4.379 | 41 | 309516 | 53.120 | ug/l | 98 |
| 15) Acrylonitrile | 5.055 | 53 | 225862 | 257.151 | ug/l | 99 |
| 16) Acetone | 3.860 | 43 | 217392 | 256.214 | ug/l | 96 |
| 17) Carbon Disulfide | 4.104 | 76 | 693545 | 53.714 | ug/l | 99 |
| 18) Methyl Acetate | 4.379 | 43 | 127782 | 50.608 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.110 | 73 | 525251 | 51.188 | ug/l | 99 |
| 20) Methylene Chloride | 4.610 | 84 | 249658 | 57.006 | ug/l | 98 |
| 21) trans-1,2-Dichloroethene | 5.110 | 96 | 245991 | 55.278 | ug/l | 98 |
| 22) Diisopropyl ether | 6.012 | 45 | 701401 | 55.396 | ug/l | 97 |
| 23) Vinyl Acetate | 5.958 | 43 | 1858955 | 265.520 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 5.909 | 63 | 437716 | 56.544 | ug/l | 100 |
| 25) 2-Butanone | 6.890 | 43 | 291161 | 252.314 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 369032 | 55.247 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.884 | 96 | 282758 | 54.962 | ug/l | 99 |
| 28) Bromochloromethane | 7.244 | 49 | 180624 | 58.812 | ug/l | 97 |
| 29) Tetrahydrofuran | 7.262 | 42 | 176218 | 246.358 | ug/l | 99 |
| 30) Chloroform | 7.415 | 83 | 452700 | 56.703 | ug/l | 92 |
| 31) Cyclohexane | 7.695 | 56 | 369548 | 50.659 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 395153 | 55.782 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 324519 | 56.356 | ug/l | 99 |
| 37) Ethyl Acetate | 6.982 | 43 | 127399 | 52.667 | ug/l | 98 |
| 38) Carbon Tetrachloride | 7.811 | 117 | 351380 | 56.181 | ug/l | 98 |
| 39) Methylcyclohexane | 9.109 | 83 | 412645 | 54.417 | ug/l | 99 |
| 40) Benzene | 8.079 | 78 | 1015204 | 57.200 | ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023084.D
Acq On : 14 Aug 2025 10:17
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 14:46:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.213 | 41 | 60193 | 43.117 ug/l # | 84 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 257953 | 55.883 ug/l | 98 |
| 43) Isopropyl Acetate | 8.195 | 43 | 247901 | 50.705 ug/l | 99 |
| 44) Trichloroethene | 8.866 | 130 | 256850 | 56.001 ug/l | 98 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 236969 | 58.028 ug/l | 98 |
| 46) Dibromomethane | 9.231 | 93 | 132779 | 56.649 ug/l | 98 |
| 47) Bromodichloromethane | 9.420 | 83 | 344511 | 57.122 ug/l | 98 |
| 48) Methyl methacrylate | 9.219 | 41 | 123024 | 52.585 ug/l | 99 |
| 49) 1,4-Dioxane | 9.225 | 88 | 28396 | 1033.218 ug/l | 95 |
| 51) 4-Methyl-2-Pentanone | 9.993 | 43 | 657357 | 260.657 ug/l | 99 |
| 52) Toluene | 10.170 | 92 | 647492 | 57.441 ug/l | 98 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 301282 | 55.165 ug/l | 98 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 360945 | 55.890 ug/l | 97 |
| 55) 1,1,2-Trichloroethane | 10.566 | 97 | 173079 | 55.184 ug/l | 96 |
| 56) Ethyl methacrylate | 10.438 | 69 | 213481 | 53.193 ug/l | 97 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 292765 | 55.040 ug/l | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 530251 | 280.099 ug/l | 100 |
| 59) 2-Hexanone | 10.755 | 43 | 442922 | 257.924 ug/l | 98 |
| 60) Dibromochloromethane | 10.908 | 129 | 231534 | 55.947 ug/l | 100 |
| 61) 1,2-Dibromoethane | 11.012 | 107 | 159967 | 54.265 ug/l | 99 |
| 64) Tetrachloroethene | 10.646 | 164 | 288037 | 55.420 ug/l | 99 |
| 65) Chlorobenzene | 11.438 | 112 | 693789 | 55.261 ug/l | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 11.511 | 131 | 237008 | 55.623 ug/l | 99 |
| 67) Ethyl Benzene | 11.518 | 91 | 1213079 | 56.146 ug/l | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 959256 | 113.678 ug/l | 100 |
| 69) o-Xylene | 11.950 | 106 | 445491 | 56.368 ug/l | 99 |
| 70) Styrene | 11.969 | 104 | 755359 | 58.442 ug/l | 99 |
| 71) Bromoform | 12.127 | 173 | 128615 | 51.645 ug/l # | 98 |
| 73) Isopropylbenzene | 12.249 | 105 | 1153144 | 56.330 ug/l | 100 |
| 74) N-amyl acetate | 12.066 | 43 | 224404 | 51.690 ug/l | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 180470 | 51.630 ug/l | 99 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 126115m | 45.053 ug/l | |
| 77) Bromobenzene | 12.530 | 156 | 264791 | 54.218 ug/l | 99 |
| 78) n-propylbenzene | 12.590 | 91 | 1411858 | 57.928 ug/l | 100 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 778755 | 55.767 ug/l | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.731 | 105 | 950021 | 57.421 ug/l | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.298 | 75 | 56963 | 49.259 ug/l | 96 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 813961 | 56.188 ug/l | 100 |
| 83) tert-Butylbenzene | 12.993 | 119 | 830094 | 55.552 ug/l | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 956285 | 58.063 ug/l | 100 |
| 85) sec-Butylbenzene | 13.170 | 105 | 1262155 | 57.500 ug/l | 99 |
| 86) p-Isopropyltoluene | 13.285 | 119 | 1062415 | 58.310 ug/l | 100 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 540543 | 56.125 ug/l | 99 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 526660 | 55.125 ug/l | 100 |
| 89) n-Butylbenzene | 13.615 | 91 | 968977 | 57.904 ug/l | 100 |
| 90) Hexachloroethane | 13.877 | 117 | 210671 | 56.482 ug/l | 98 |
| 91) 1,2-Dichlorobenzene | 13.651 | 146 | 469762 | 55.616 ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.267 | 75 | 28212 | 51.839 ug/l | 92 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 258580 | 51.769 ug/l | 99 |
| 94) Hexachlorobutadiene | 15.017 | 225 | 158788 | 54.099 ug/l | 99 |
| 95) Naphthalene | 15.139 | 128 | 433775 | 50.929 ug/l | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.322 | 180 | 220135 | 51.145 ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023084.D
Acq On : 14 Aug 2025 10:17
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 14:46:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023084.D
Acq On : 14 Aug 2025 10:17
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 14 14:46:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

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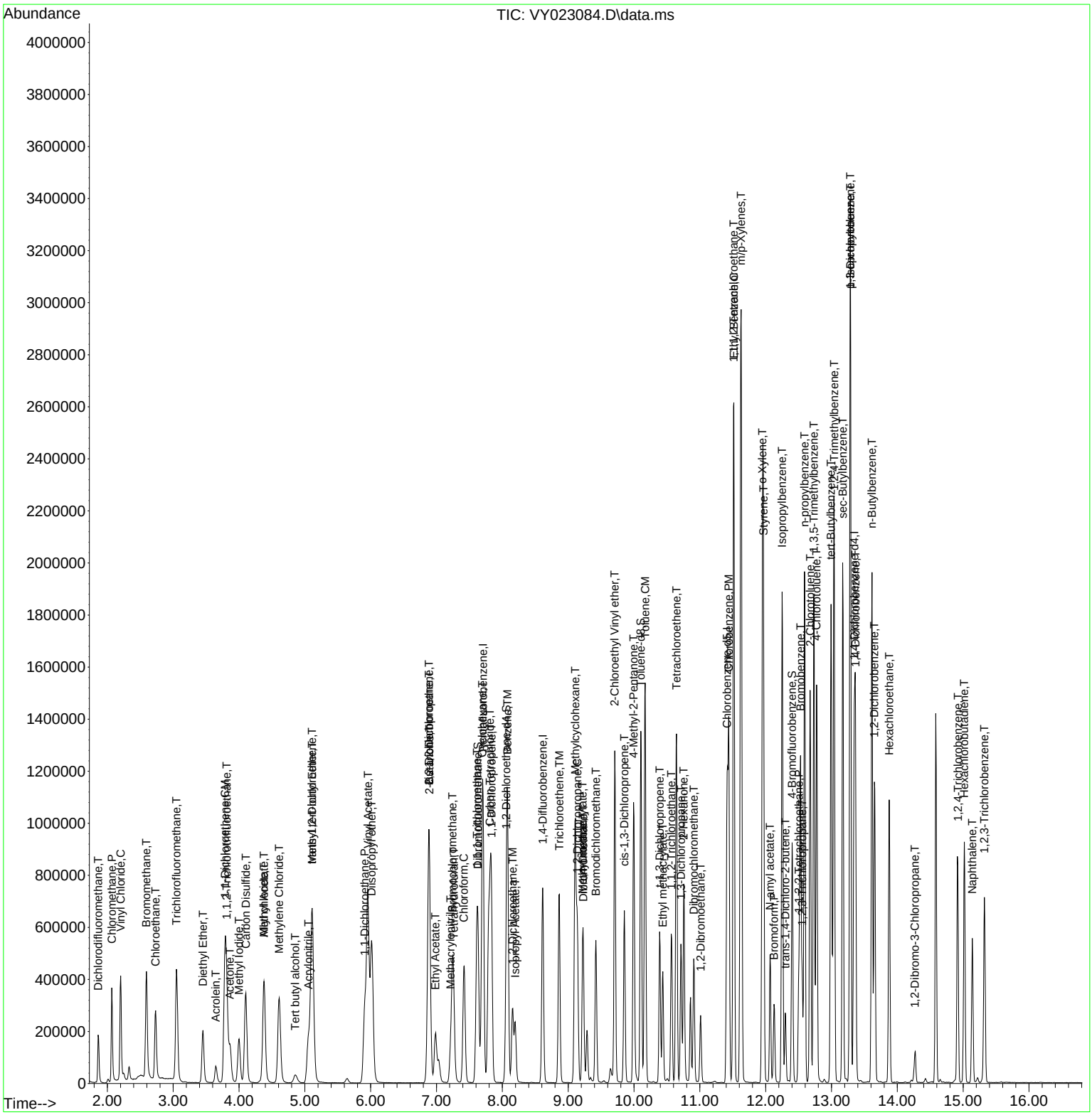
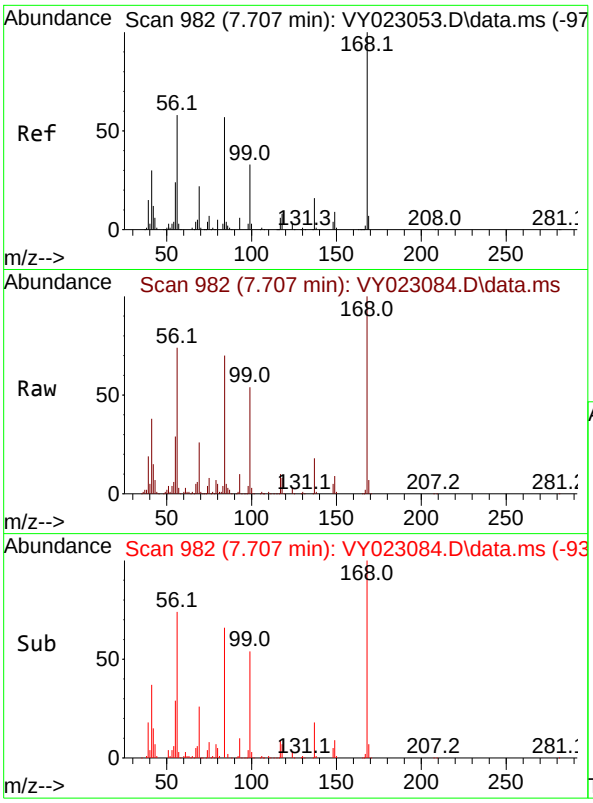
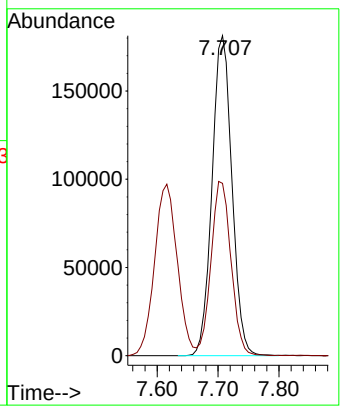





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:168 Resp: 41093

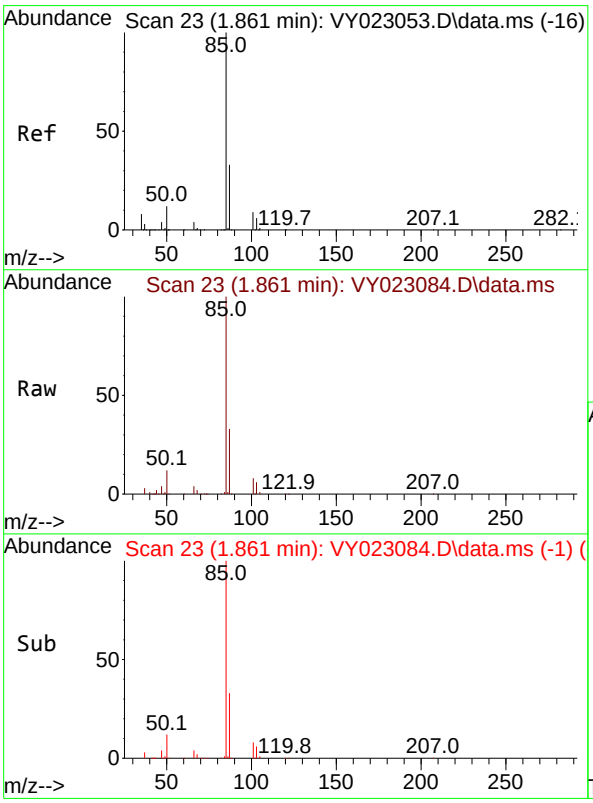
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 53.7 | 42.8 | 64.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

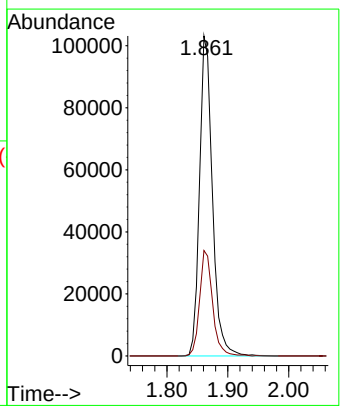
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

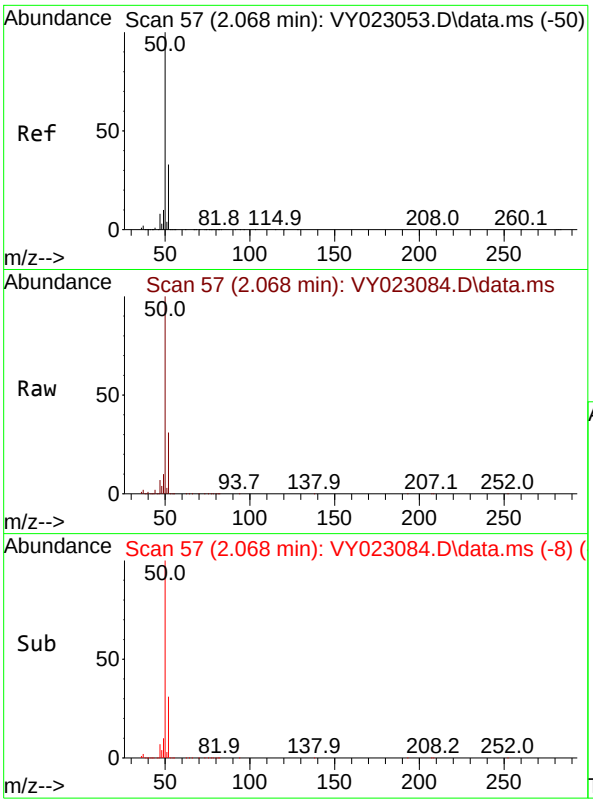



#2
Dichlorodifluoromethane
Concen: 45.046 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 85 Resp: 151094

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.9 | 16.6 | 49.8 |

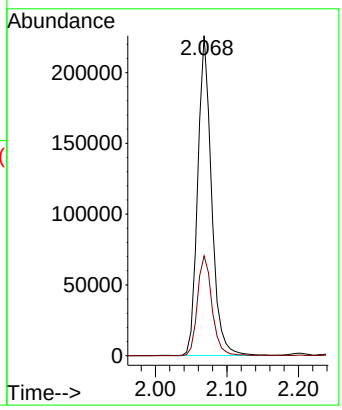





#3
Chloromethane
Concen: 55.814 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 50 Resp: 30322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.2 | 26.7 | 40.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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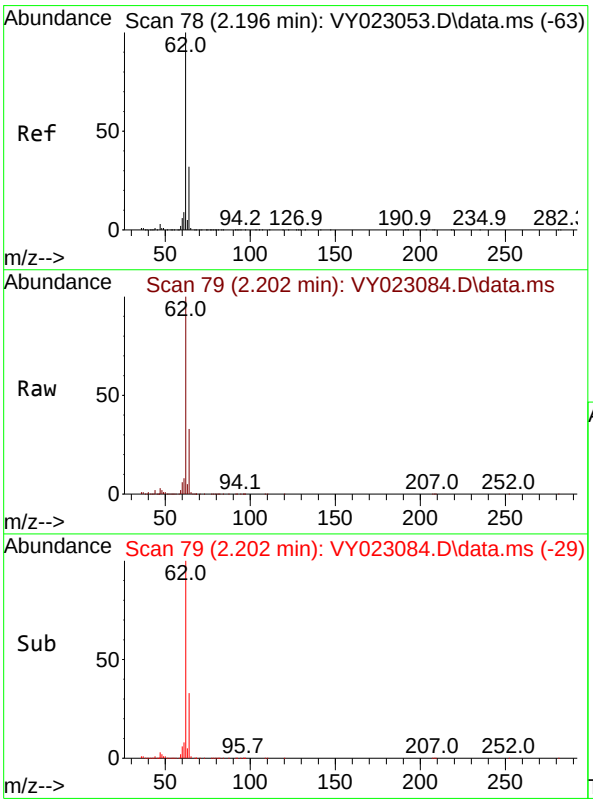
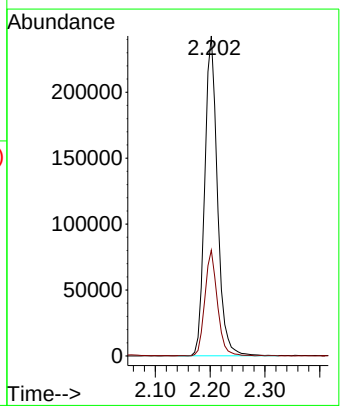
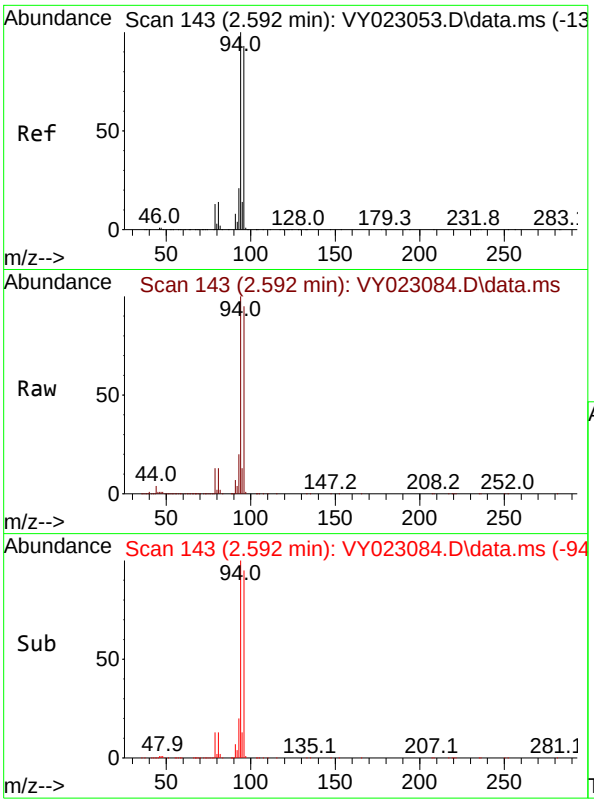



#4
Vinyl Chloride
Concen: 57.916 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 62 Resp: 388943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 33.0 | 25.4 | 38.0 |






#5
Bromomethane
Concen: 57.438 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 94 Resp: 28807

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 94.7 | 74.6 | 112.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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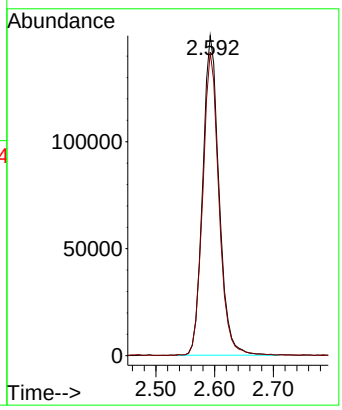
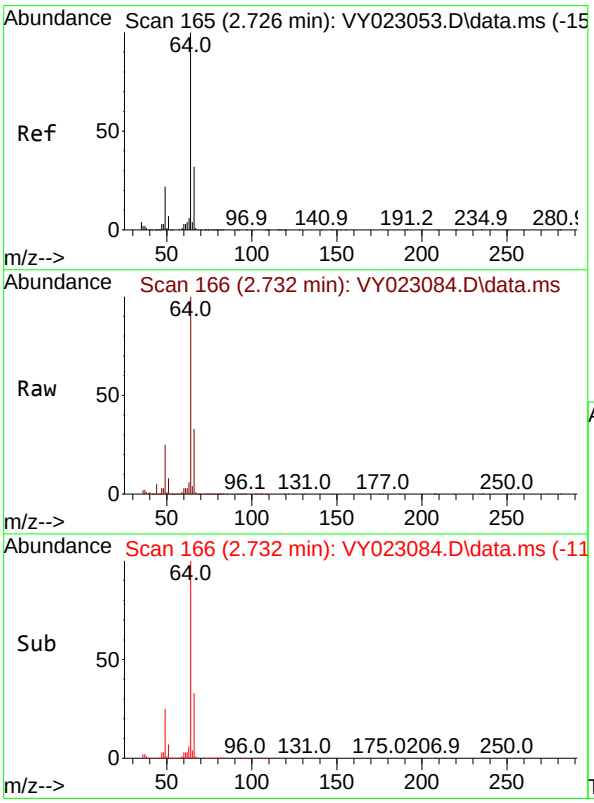
Supervised By :Mahesh Dadoda 08/19/2025

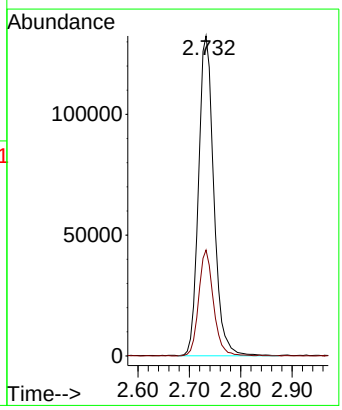


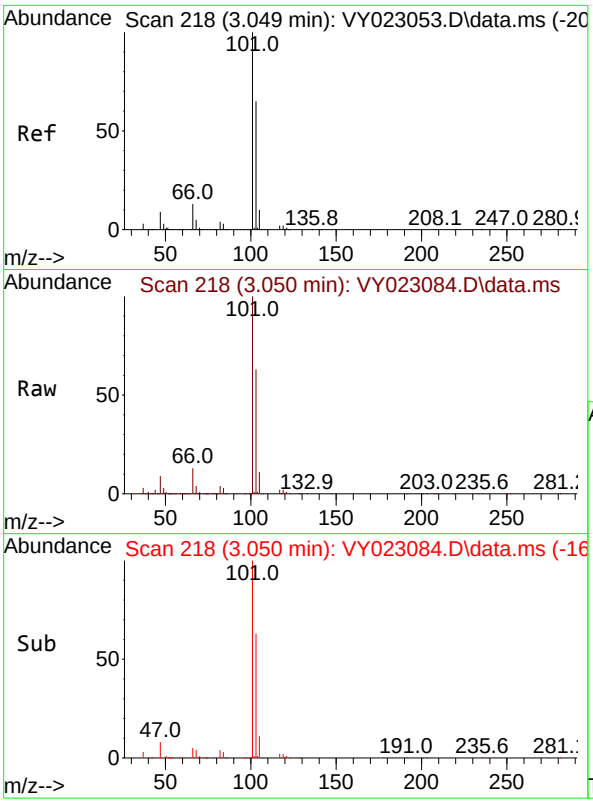




#6
Chloroethane
Concen: 61.186 ug/l
RT: 2.732 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 64 Resp: 273182

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 33.1 | 25.8 | 38.6 |

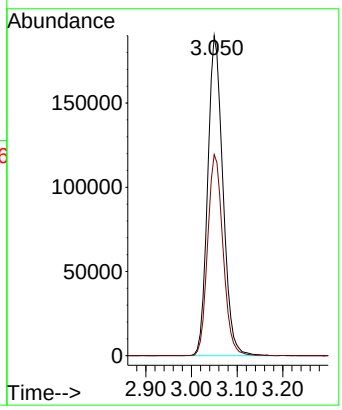





#7
Trichlorofluoromethane
Concen: 53.672 ug/l
RT: 3.050 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:101 Resp: 43828

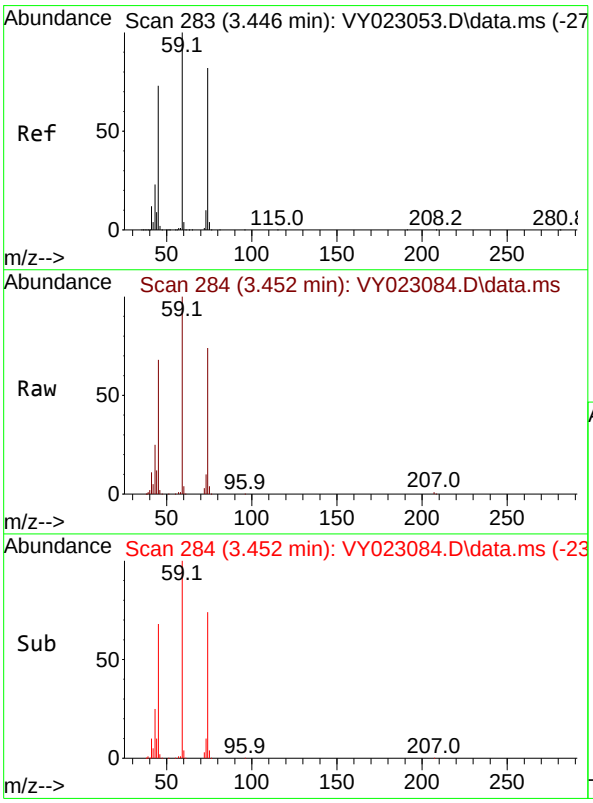
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 62.9 | 51.9 | 77.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

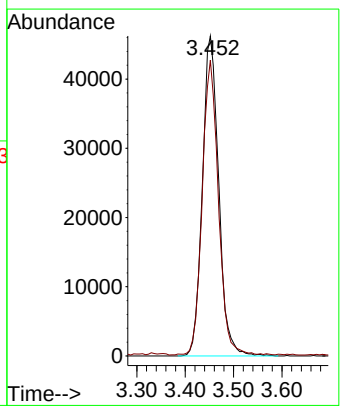
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

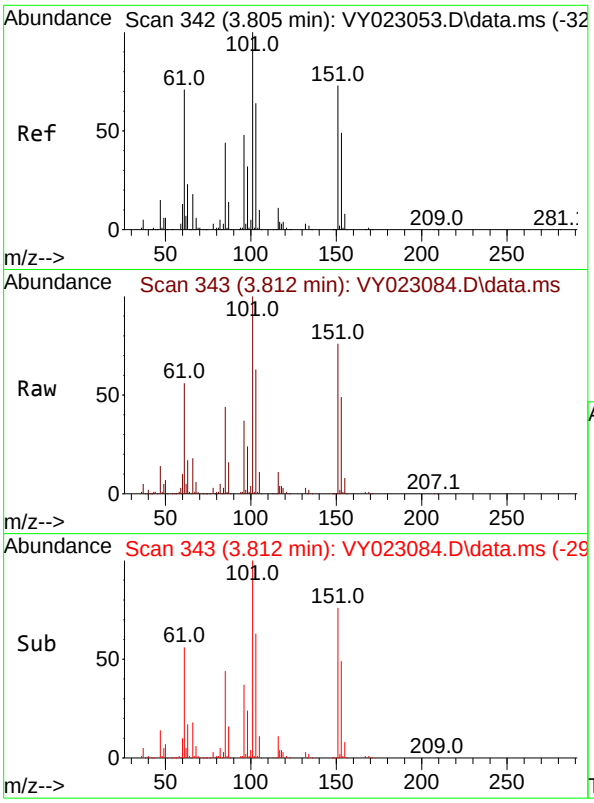



#8
Diethyl Ether
Concen: 50.120 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 74 Resp: 108282

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 91.1 | 44.4 | 133.2 |

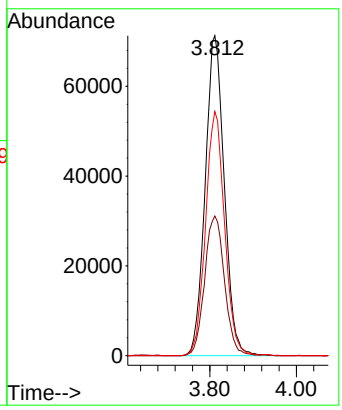





#9
1,1,2-Trichlorotrifluoroethane
Concen: 54.071 ug/l
RT: 3.812 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:101 Resp: 21783

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 45.5 | 36.3 | 54.5 |
| 151 | 76.2 | 61.5 | 92.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 08/19/2025
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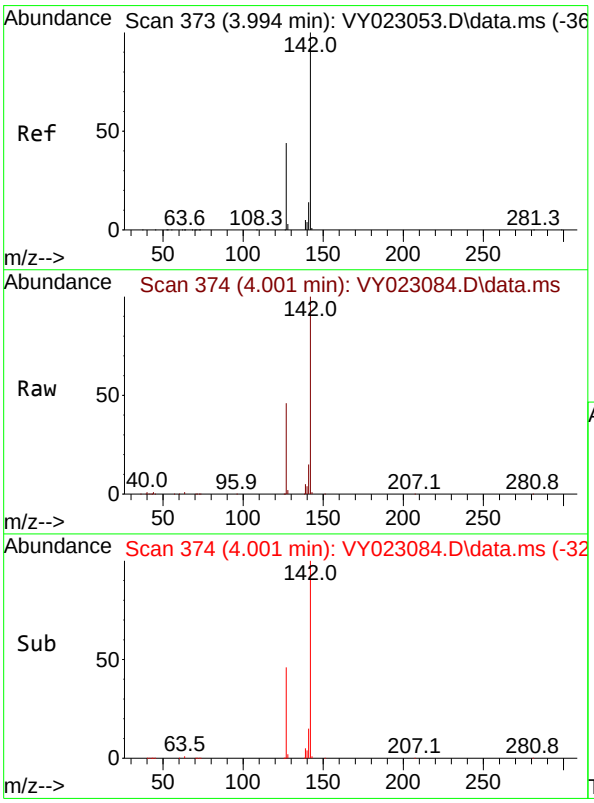
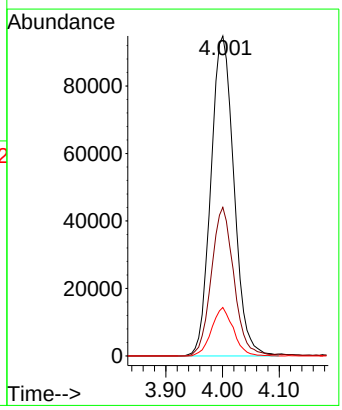
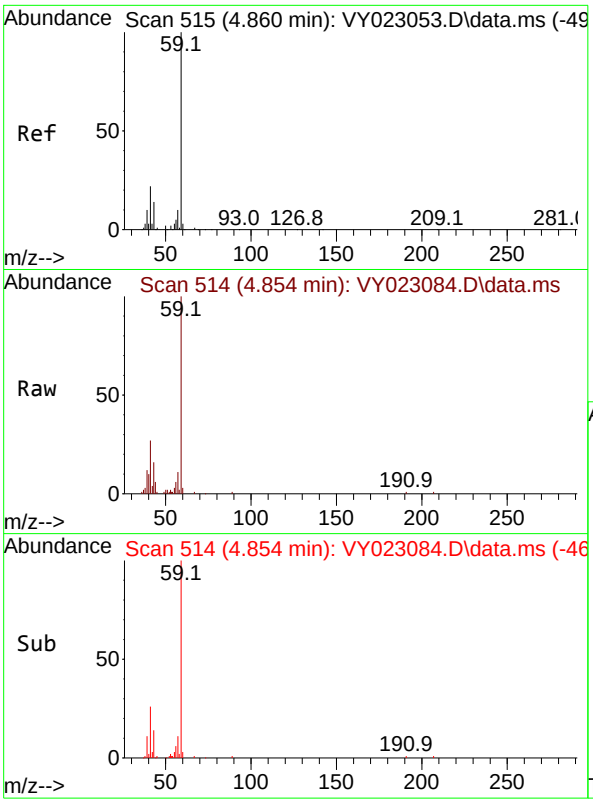



#10
Methyl Iodide
Concen: 61.652 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:142 Resp: 268014

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 45.4 | 34.9 | 52.3 |
| 141 | 14.4 | 11.3 | 16.9 |

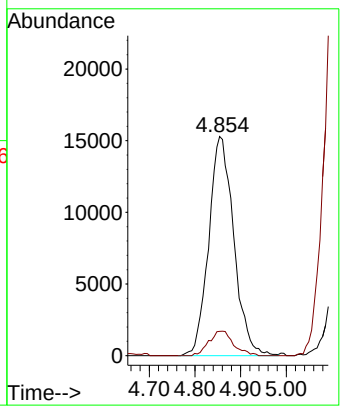





#11
Tert butyl alcohol
Concen: 216.906 ug/l
RT: 4.854 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 59 Resp: 5820

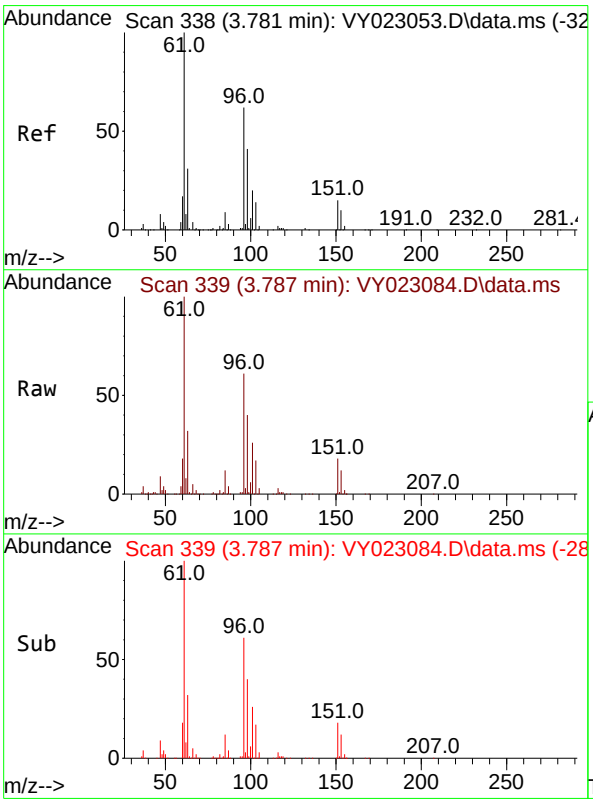
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 11.0 | 8.6 | 13.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

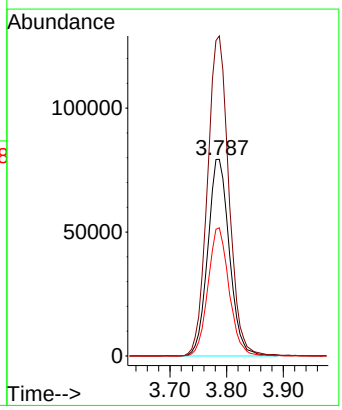
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

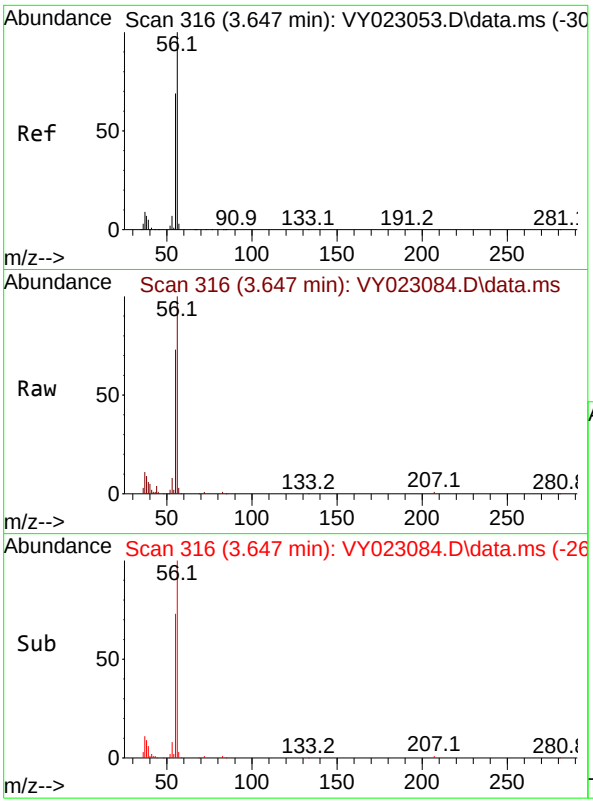



#12
1,1-Dichloroethene
Concen: 53.125 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 96 Resp: 210368

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 162.8 | 129.4 | 194.2 |
| 98 | 65.2 | 52.8 | 79.2 |

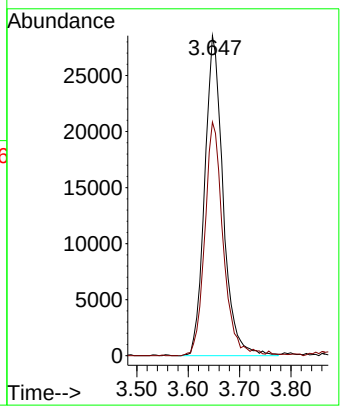





#13
Acrolein
Concen: 180.505 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 56 Resp: 7093

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 72.8 | 55.2 | 82.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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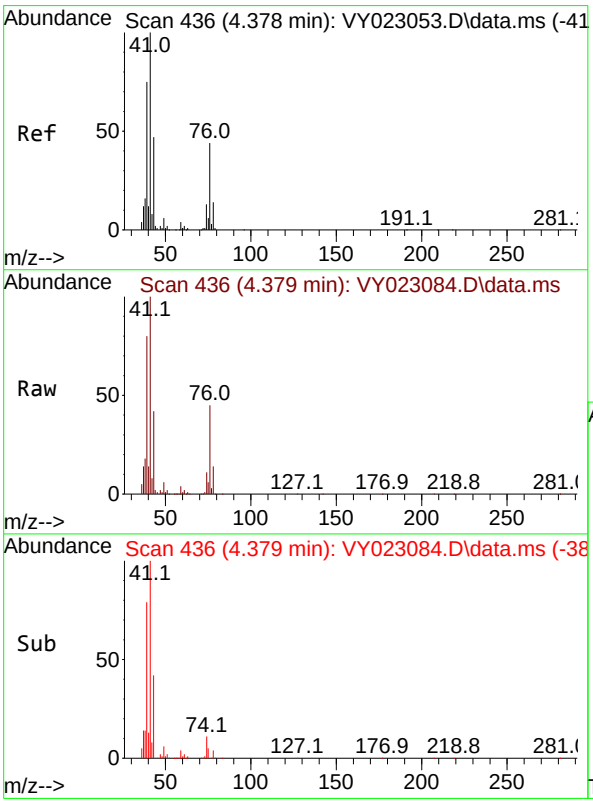
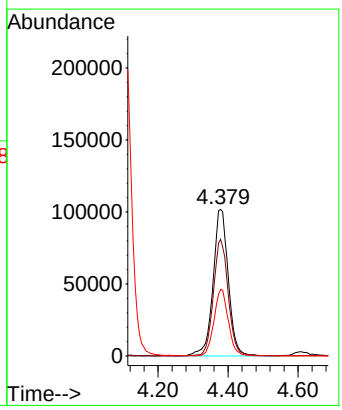
Supervised By :Mahesh Dadoda 08/19/2025

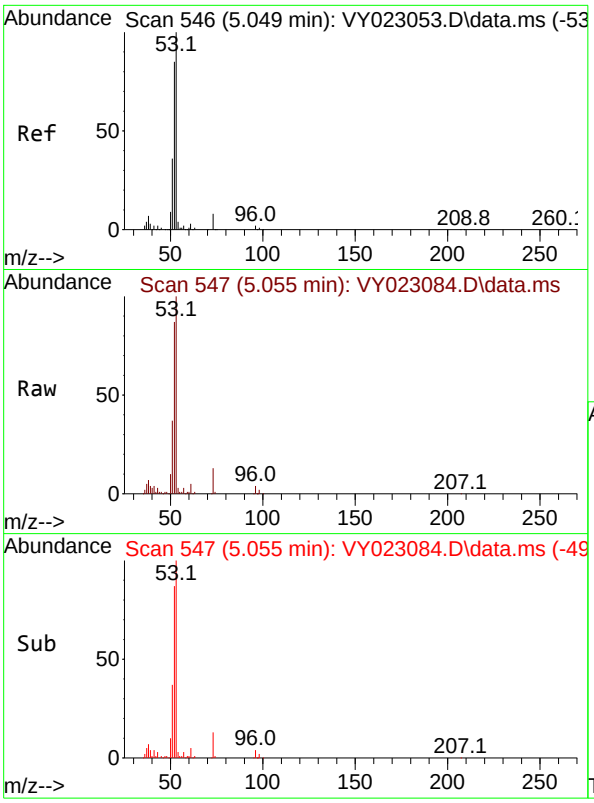



#14
Allyl chloride
Concen: 53.120 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 41 Resp: 309516

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 77.3 | 59.8 | 89.6 |
| 76 | 42.3 | 33.7 | 50.5 |






#15
Acrylonitrile
Concen: 257.151 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 53 Resp: 22586

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.1 | 65.3 | 97.9 |
| 51 | 37.6 | 29.5 | 44.3 |

**Instrument :**
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VSTDCCC050

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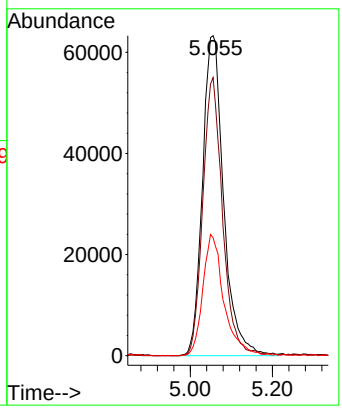
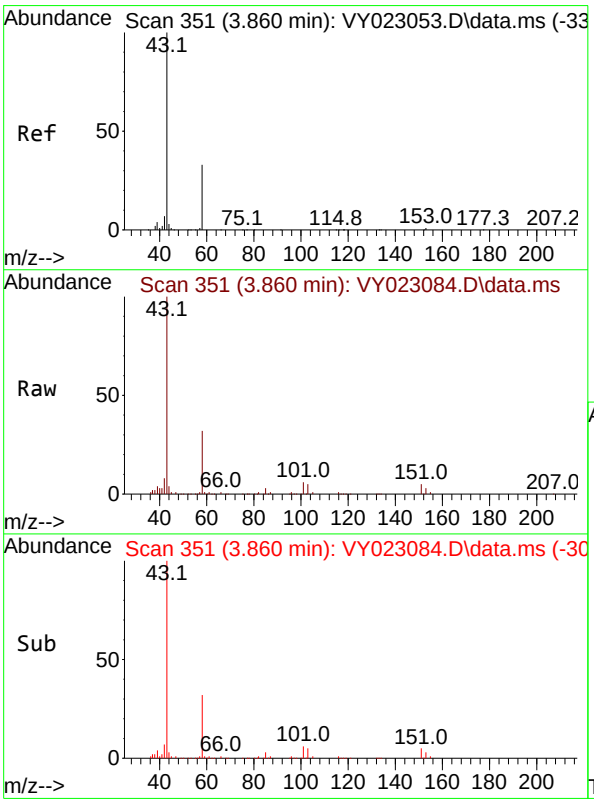
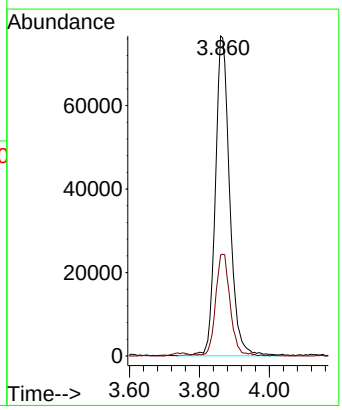


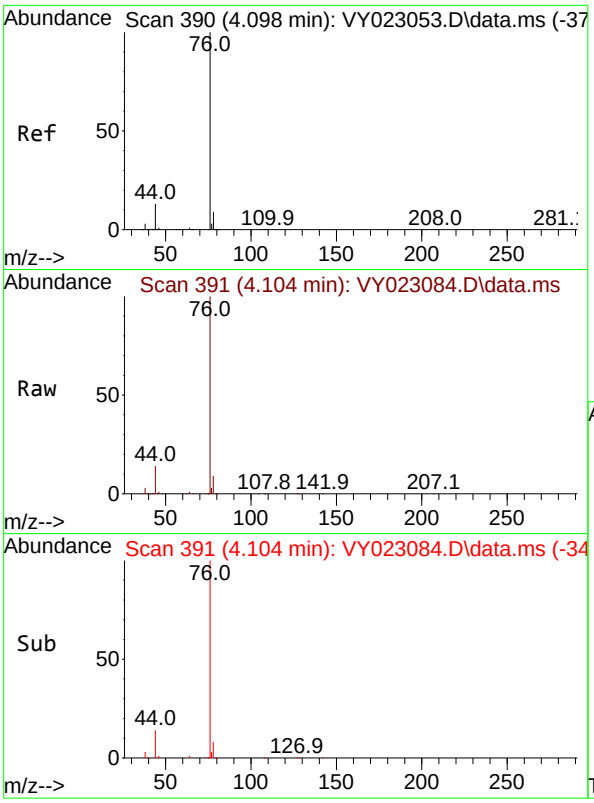




#16
Acetone
Concen: 256.214 ug/l
RT: 3.860 min Scan# 351
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 43 Resp: 217392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.5 | 27.1 | 40.7 |

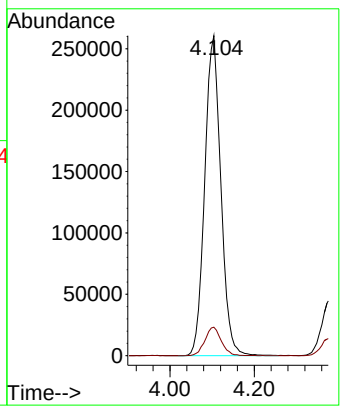





#17
Carbon Disulfide
Concen: 53.714 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 76 Resp: 69354

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.9 | 7.4 | 11.2 |




**Instrument :**
MSVOA_Y
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VSTDCCC050

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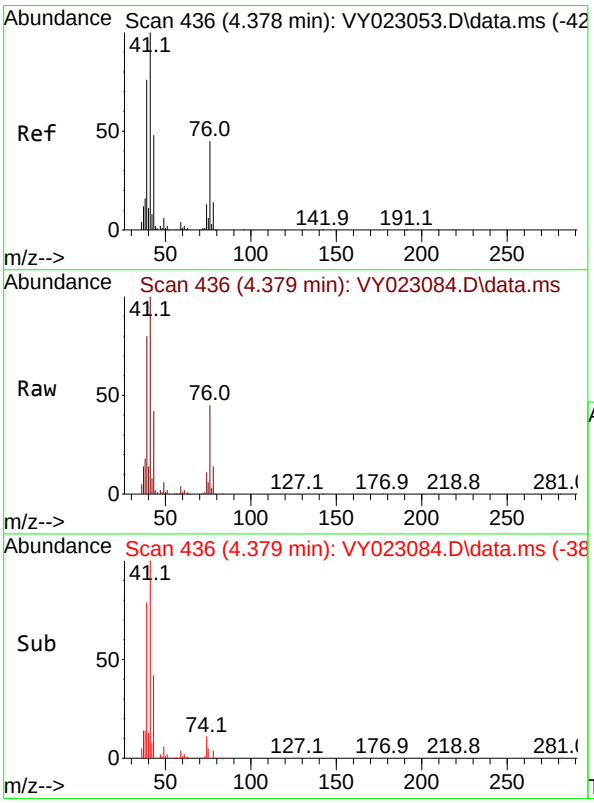
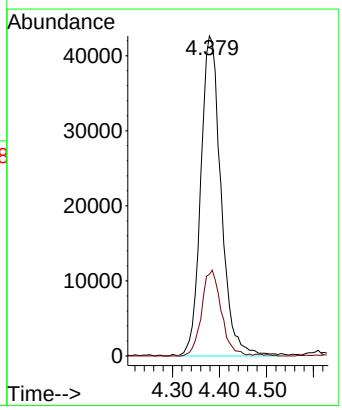
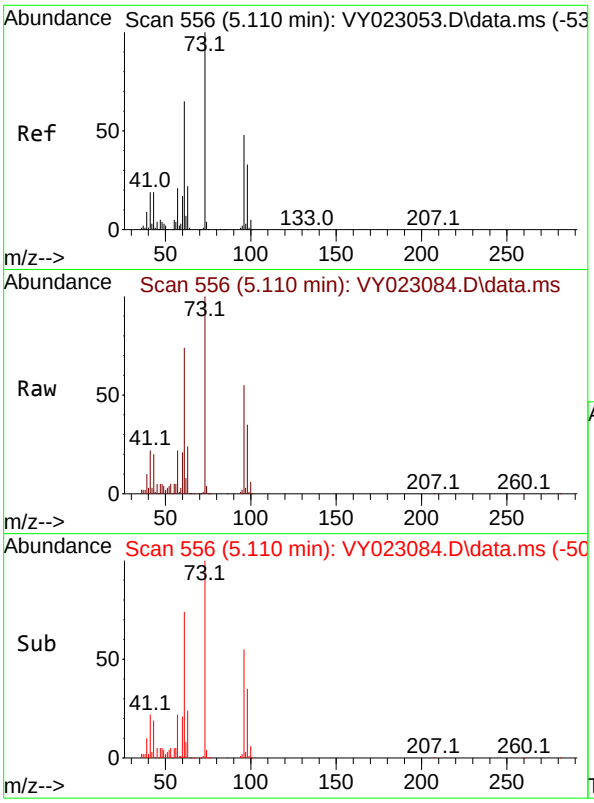



#18
Methyl Acetate
Concen: 50.608 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 43 Resp: 127782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 26.0 | 21.2 | 31.8 |






#19
Methyl tert-butyl Ether
Concen: 51.188 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 73 Resp: 52525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.0 | 17.1 | 25.7 |

**Instrument :**
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VSTDCCC050

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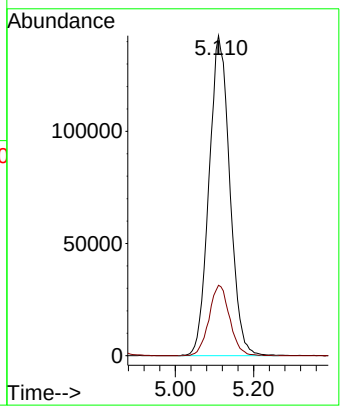
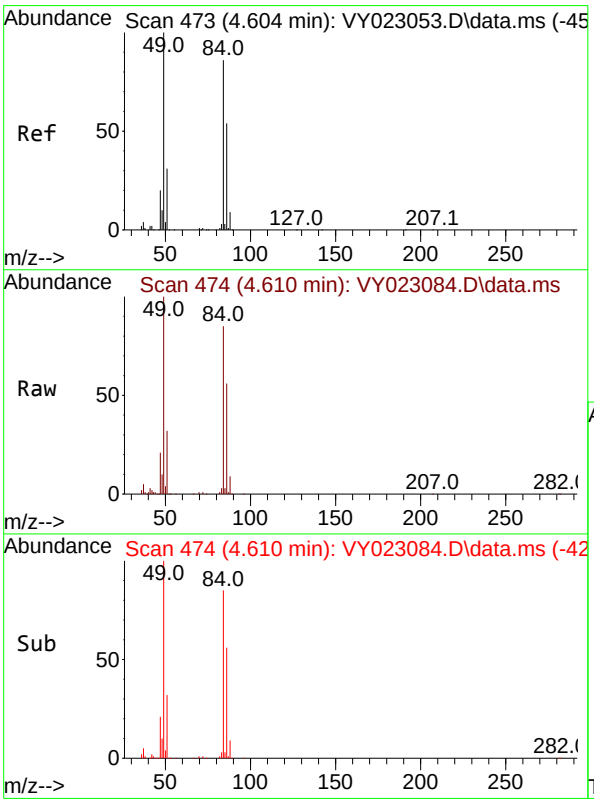
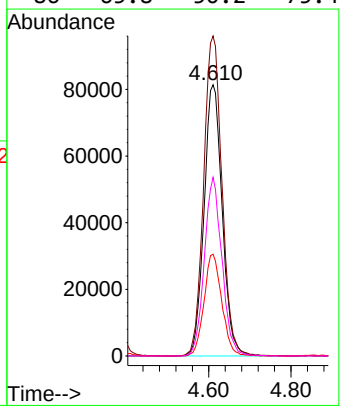


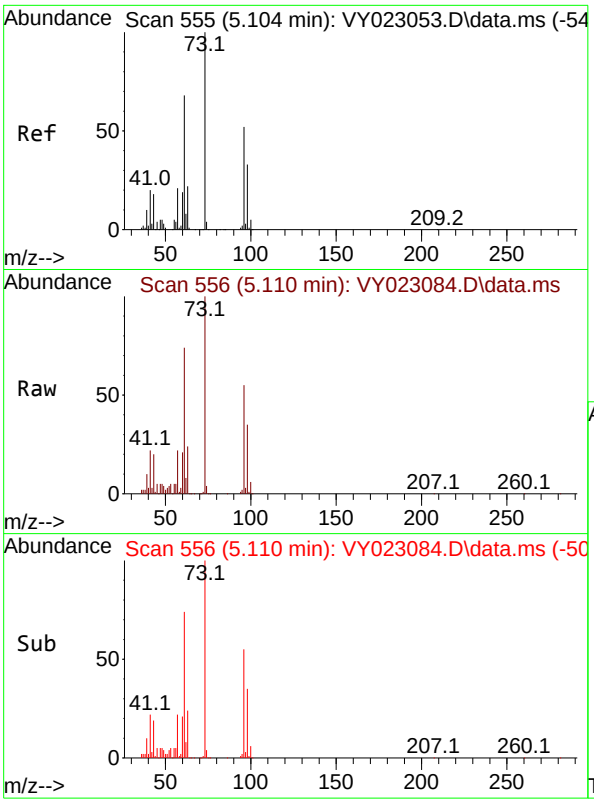




#20
Methylene Chloride
Concen: 57.006 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 84 Resp: 249658

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 117.9 | 93.0 | 139.6 |
| 51 | 37.5 | 29.0 | 43.4 |
| 86 | 65.8 | 50.2 | 75.4 |

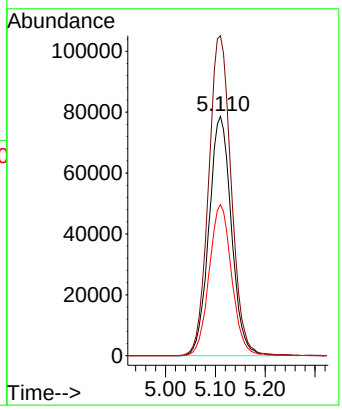





#21
trans-1,2-Dichloroethene
Concen: 55.278 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 96 Resp: 24599

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 133.6 | 104.8 | 157.2 |
| 98 | 63.1 | 50.1 | 75.1 |




**Instrument :**
MSVOA_Y
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VSTDCCC050

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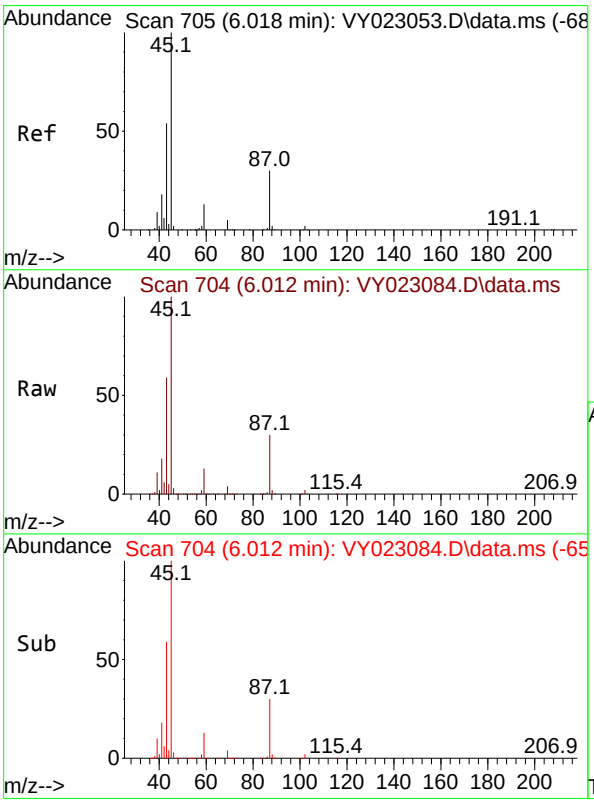
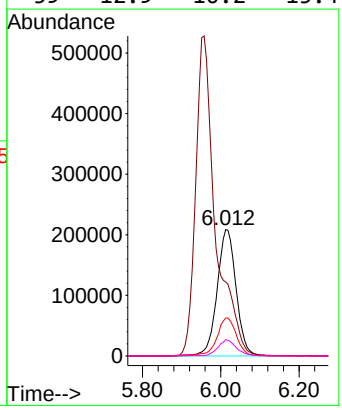
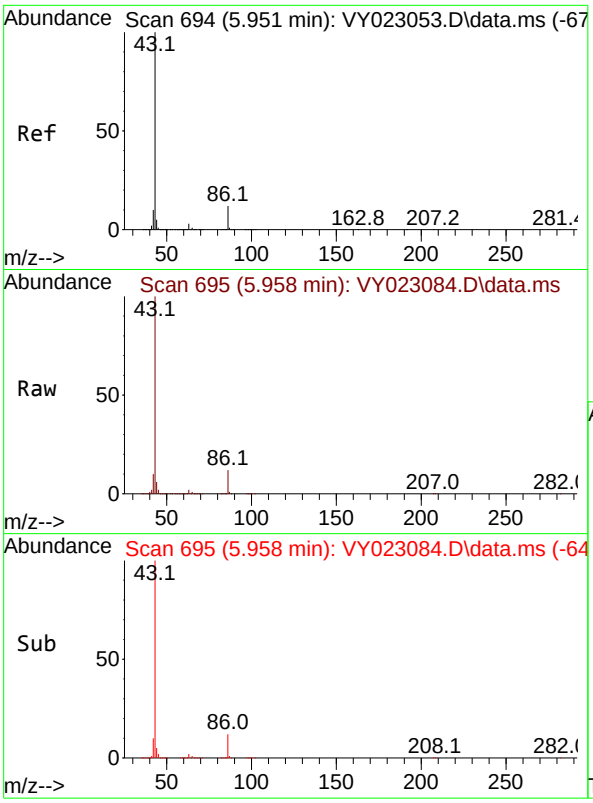



#22
Diisopropyl ether
Concen: 55.396 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 45 Resp: 701401

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 58.3 | 43.4 | 65.0 |
| 87 | 29.9 | 24.4 | 36.6 |
| 59 | 12.9 | 10.2 | 15.4 |

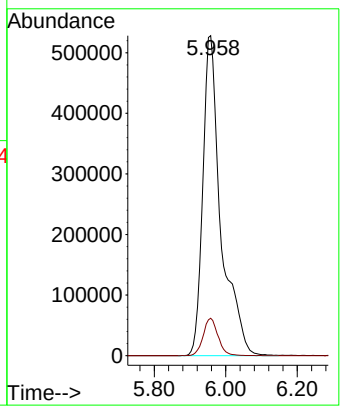





#23
Vinyl Acetate
Concen: 265.520 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 43 Resp: 185895

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.7 | 9.6 | 14.4 |

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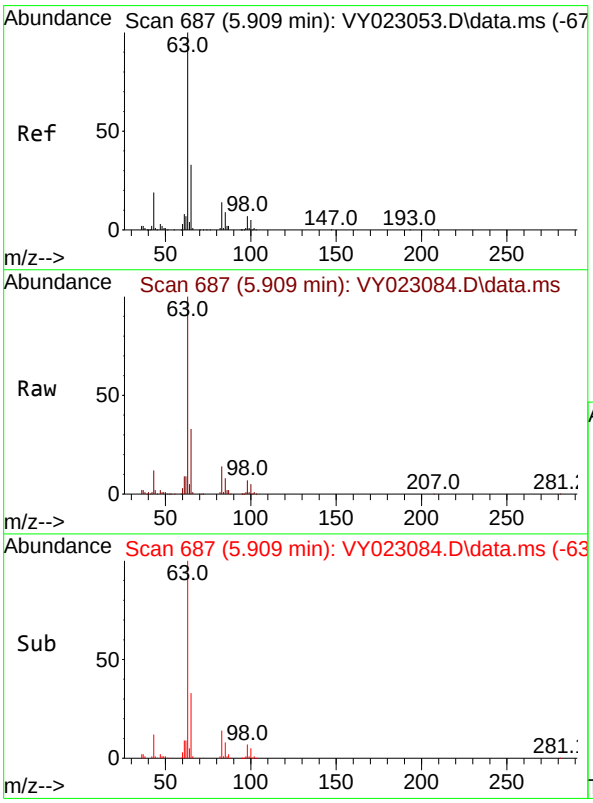
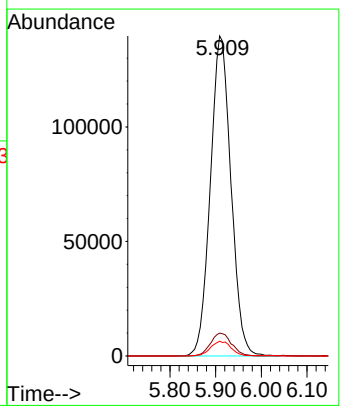
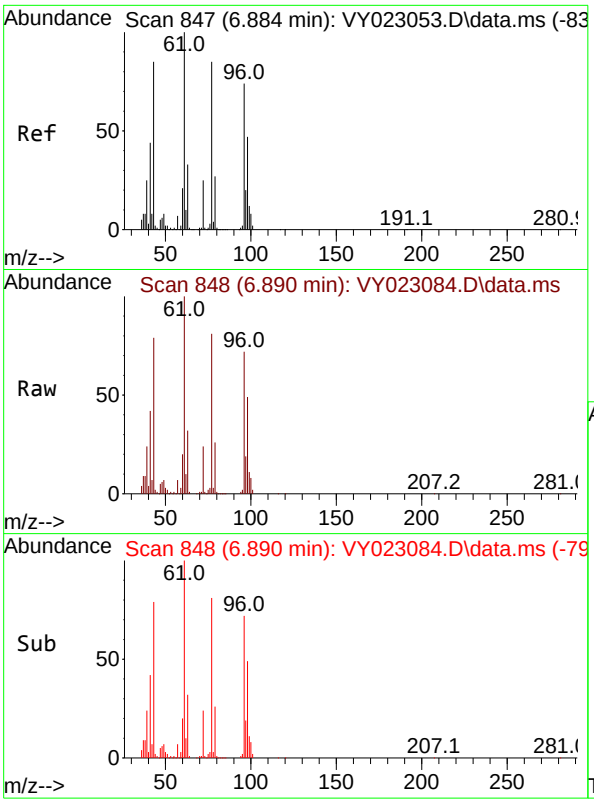



#24
1,1-Dichloroethane
Concen: 56.544 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 63 Resp: 437716

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.1 | 3.5 | 10.6 |
| 100 | 4.6 | 2.4 | 7.1 |

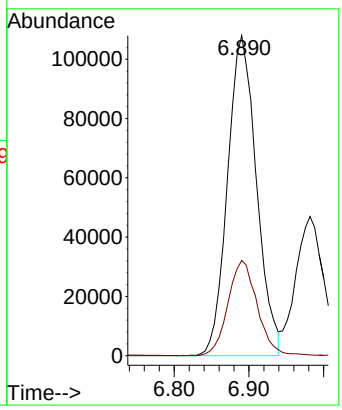





#25
2-Butanone
Concen: 252.314 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 43 Resp: 29116

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 29.8 | 23.5 | 35.3 |




**Instrument :**
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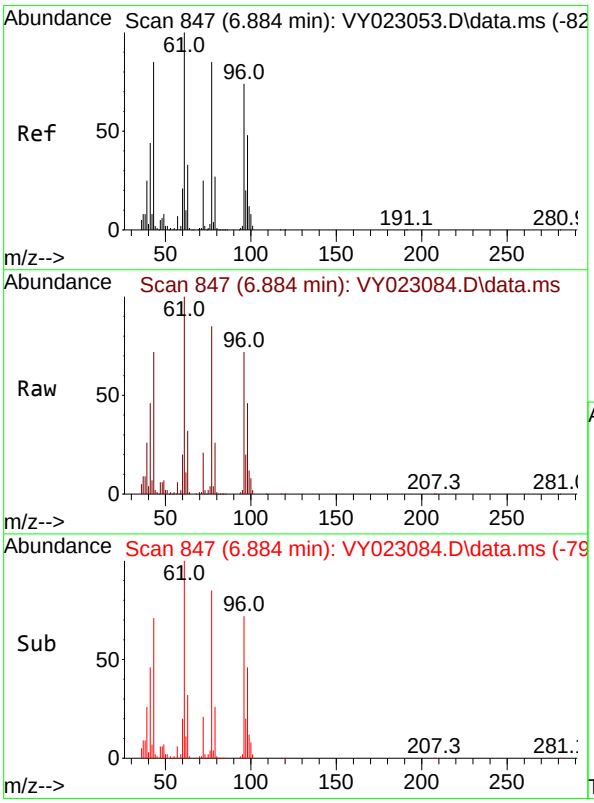
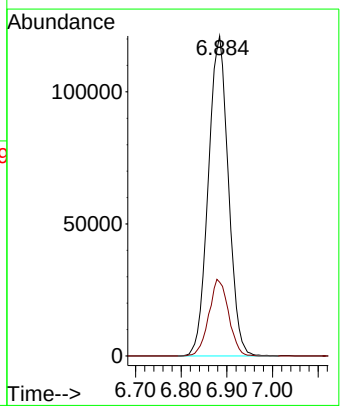
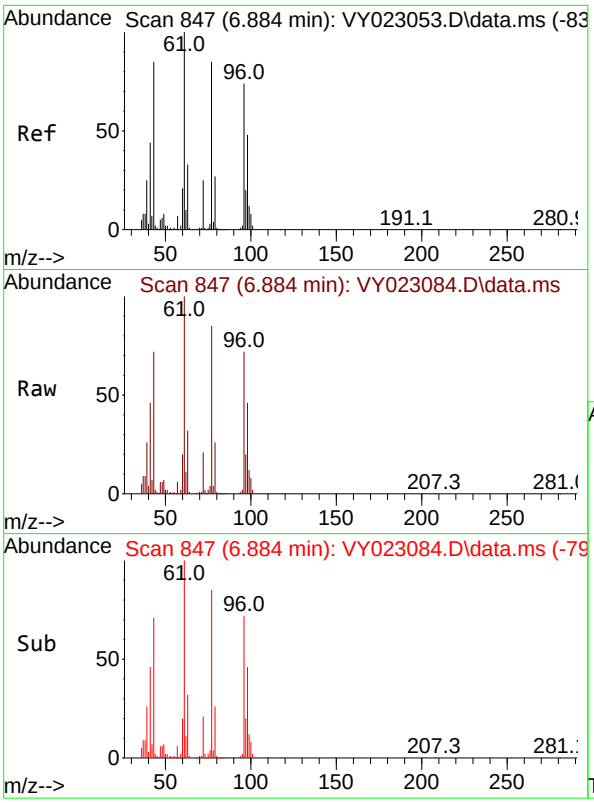



#26
2,2-Dichloropropane
Concen: 55.247 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 77 Resp: 369032

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.6 | 11.6 | 34.8 |

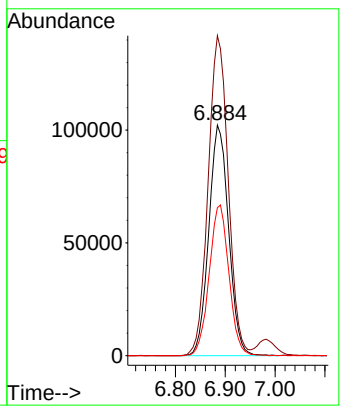





#27
cis-1,2-Dichloroethene
Concen: 54.962 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 96 Resp: 28275

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 140.4 | 0.0 | 278.6 |
| 98 | 64.9 | 0.0 | 130.4 |




**Instrument :**
MSVOA_Y
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VSTDCCC050

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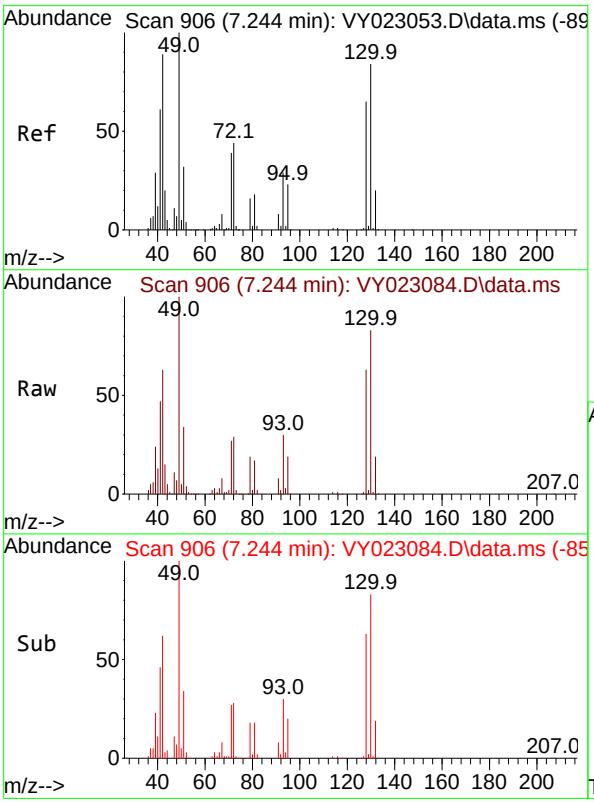
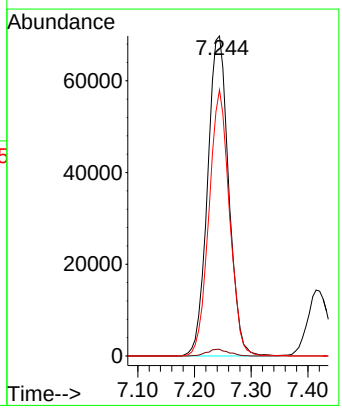
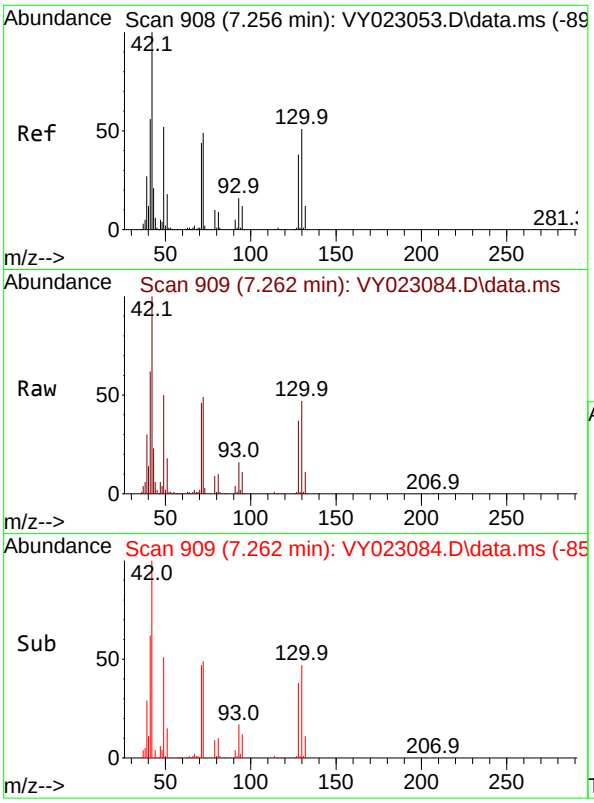



#28
Bromochloromethane
Concen: 58.812 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 49 Resp: 180624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.2 | 0.0 | 4.2 |
| 130 | 80.4 | 66.4 | 99.6 |

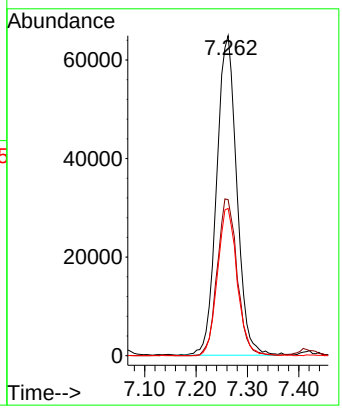





#29
Tetrahydrofuran
Concen: 246.358 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 42 Resp: 17621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 48.6 | 39.4 | 59.2 |
| 71 | 45.4 | 36.5 | 54.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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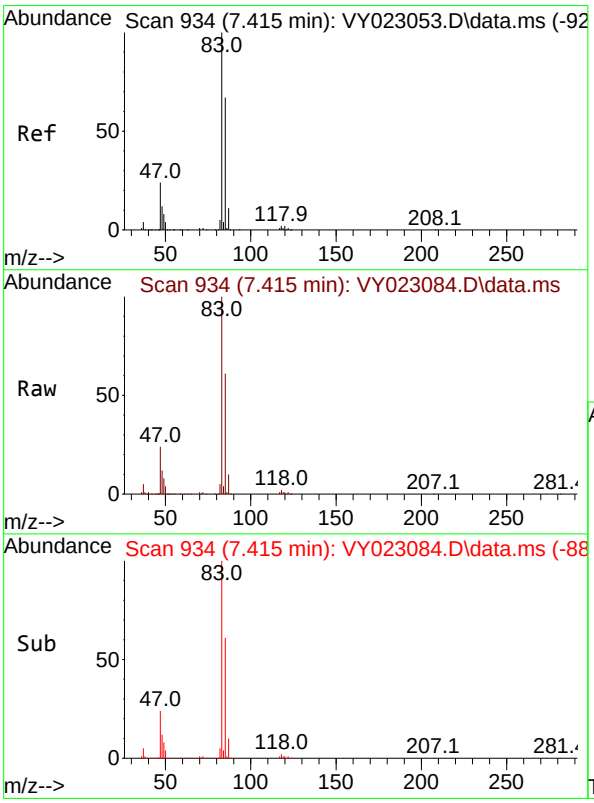
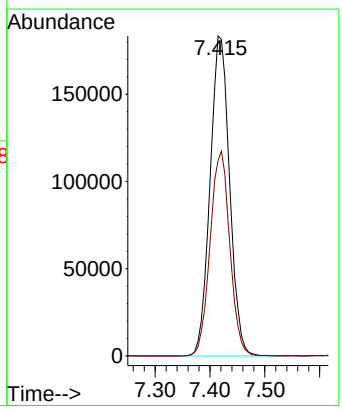
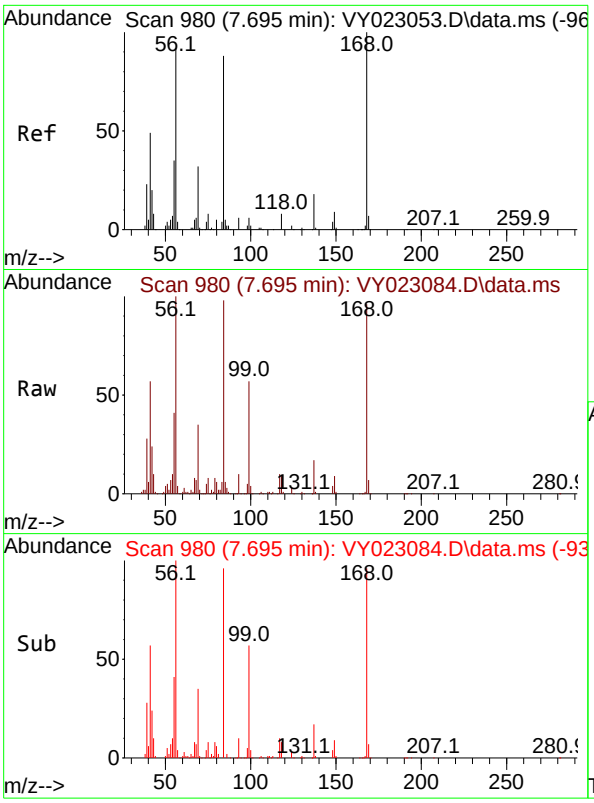



#30
Chloroform
Concen: 56.703 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 83 Resp: 452700

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 61.1 | 53.8 | 80.8 |

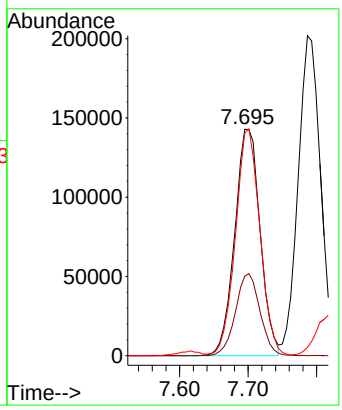





#31
Cyclohexane
Concen: 50.659 ug/l
RT: 7.695 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 56 Resp: 36954

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 35.1 | 28.2 | 42.2 |
| 84 | 97.3 | 76.6 | 114.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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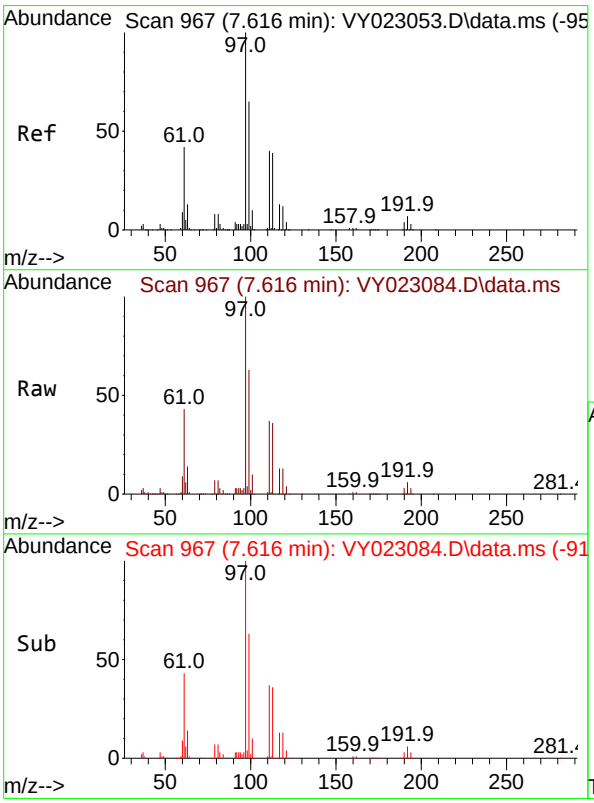
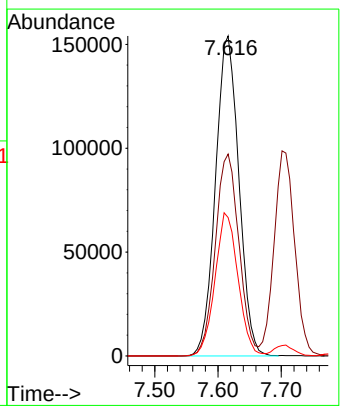
Supervised By :Mahesh Dadoda 08/19/2025

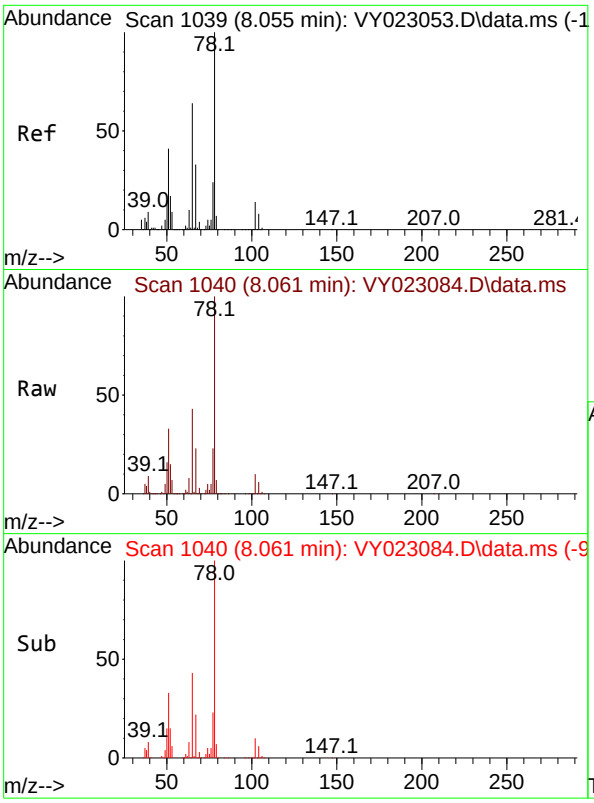



#32
1,1,1-Trichloroethane
Concen: 55.782 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 97 Resp: 395153

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.9 | 51.6 | 77.4 |
| 61 | 44.1 | 34.2 | 51.2 |

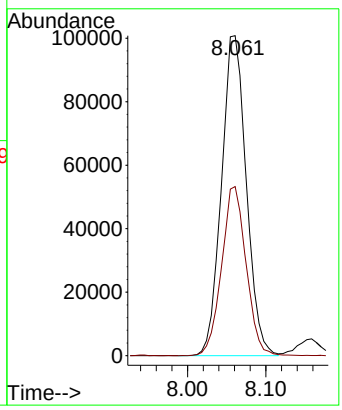





#33
1,2-Dichloroethane-d4
Concen: 56.681 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 65 Resp: 2219

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.2 | 0.0 | 106.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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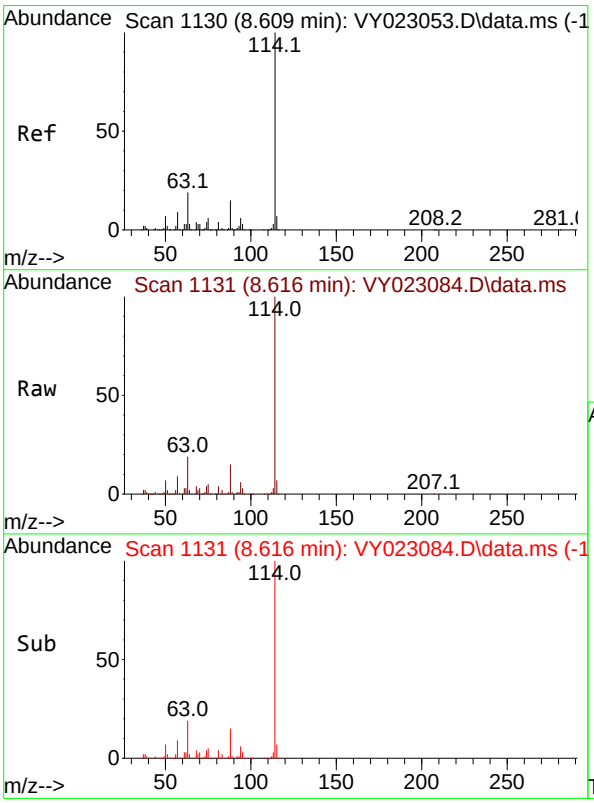
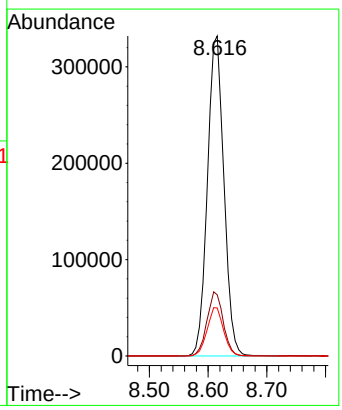
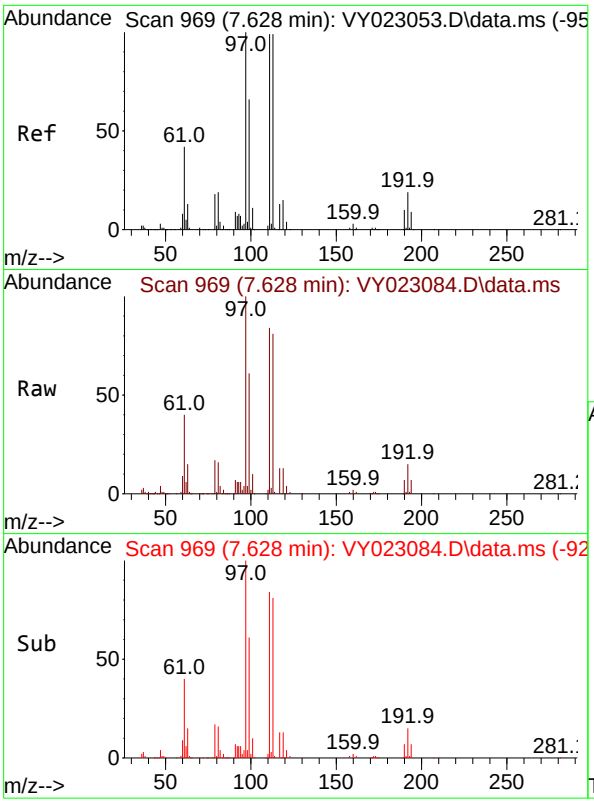



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:114 Resp: 647551

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.1 | 0.0 | 38.4 |
| 88 | 15.0 | 0.0 | 30.0 |

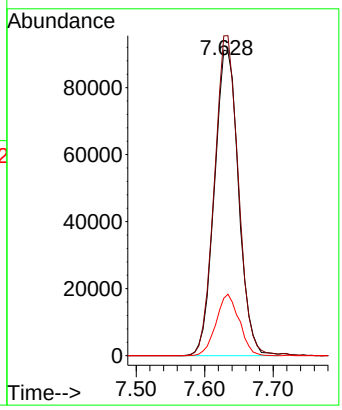





#35
Dibromofluoromethane
Concen: 57.573 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:113 Resp: 22308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.2 | 81.1 | 121.7 |
| 192 | 19.3 | 16.2 | 24.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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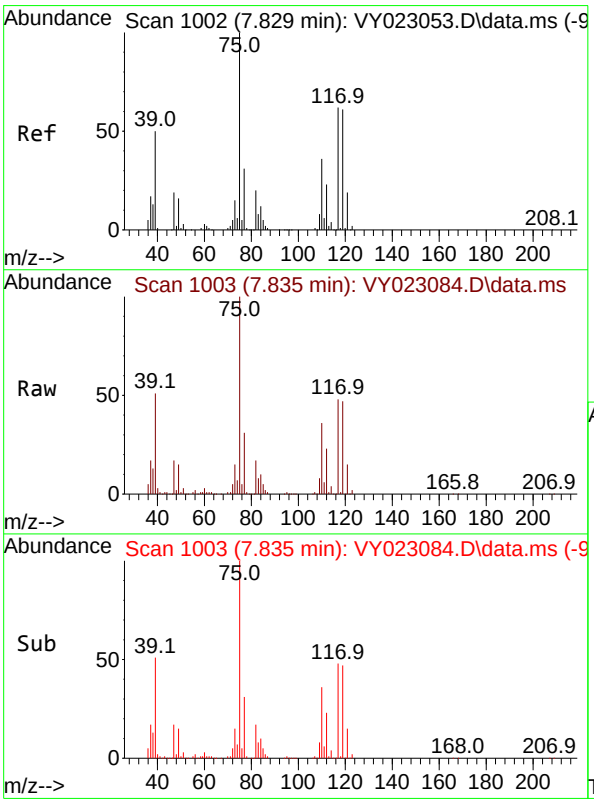
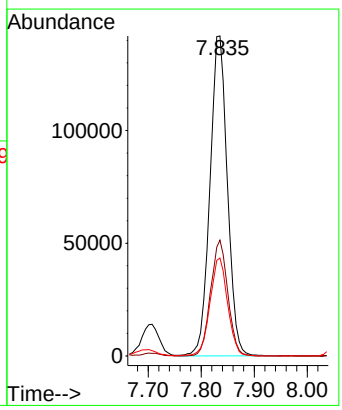
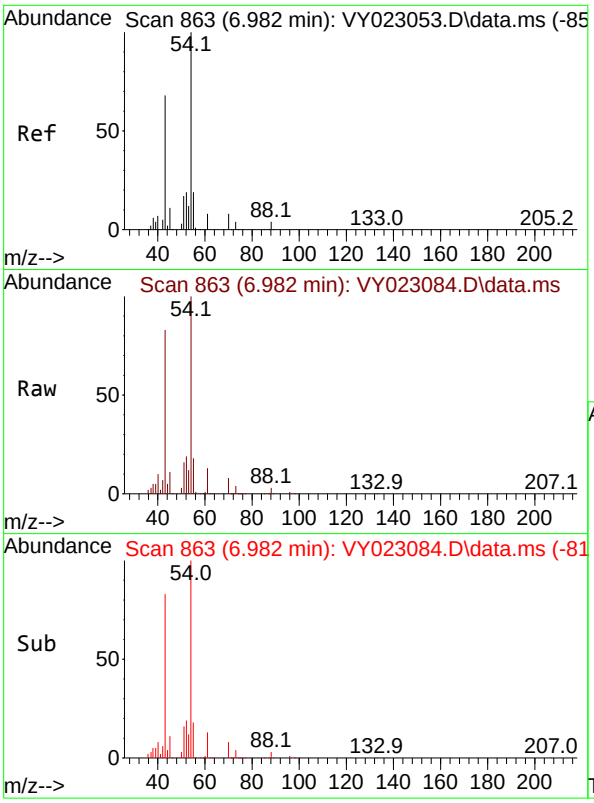



#36
1,1-Dichloropropene
Concen: 56.356 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 75 Resp: 324519

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.6 | 18.1 | 54.4 |
| 77 | 30.9 | 24.6 | 37.0 |






#37
Ethyl Acetate
Concen: 52.667 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 43 Resp: 12739

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.1 | 11.9 | 17.9 |
| 70 | 10.3 | 8.8 | 13.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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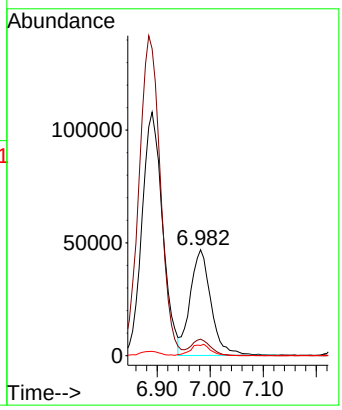
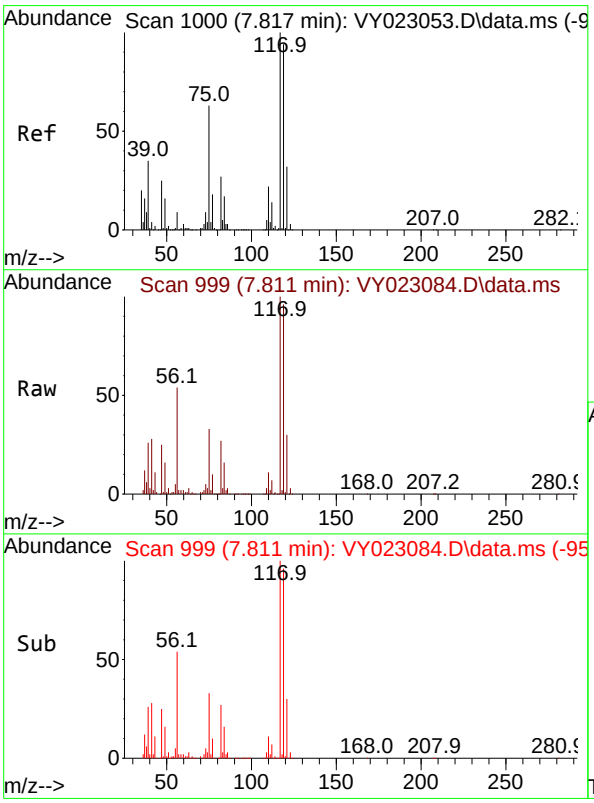
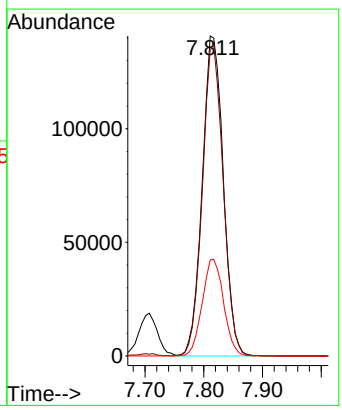


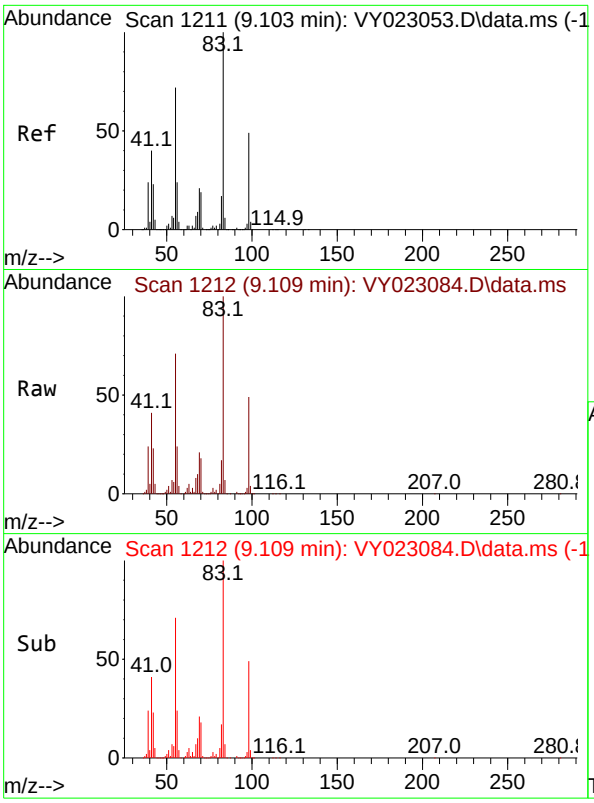




#38
Carbon Tetrachloride
Concen: 56.181 ug/l
RT: 7.811 min Scan# 999
Delta R.T. -0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:117 Resp: 351380

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.6 | 75.6 | 113.4 |
| 121 | 30.0 | 25.8 | 38.8 |






#39
Methylcyclohexane
Concen: 54.417 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 83 Resp: 41264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 71.0 | 57.6 | 86.4 |
| 98 | 48.8 | 39.2 | 58.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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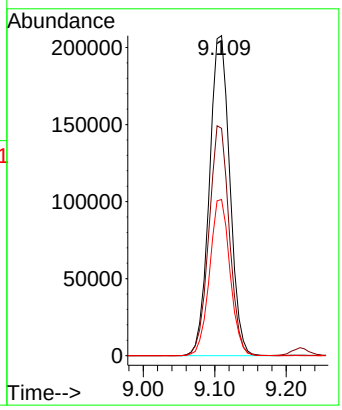
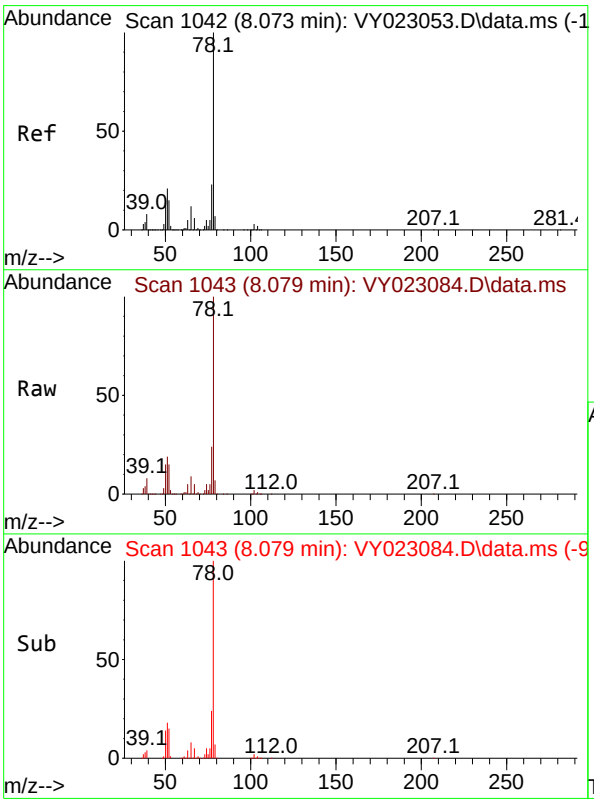
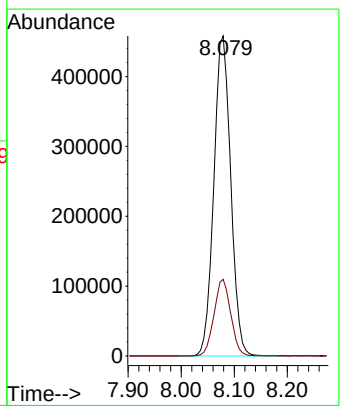


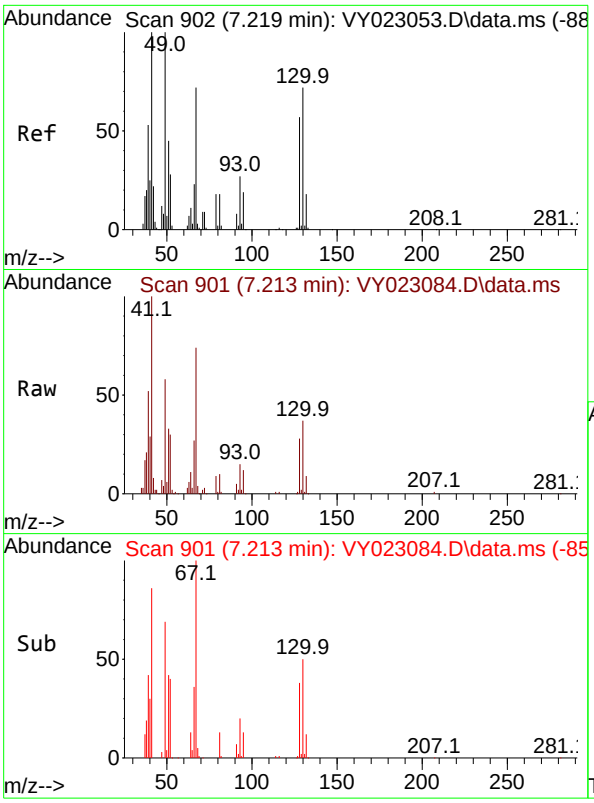




#40
Benzene
Concen: 57.200 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 78 Resp: 1015204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.0 | 18.6 | 28.0 |

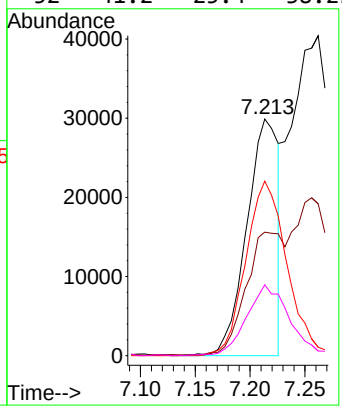





#41
Methacrylonitrile
Concen: 43.117 ug/l
RT: 7.213 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 41 Resp: 6019

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 62.5 | 43.4 | 65.2 |
| 67 | 95.9 | 63.6 | 95.4# |
| 52 | 41.2 | 25.4 | 38.2# |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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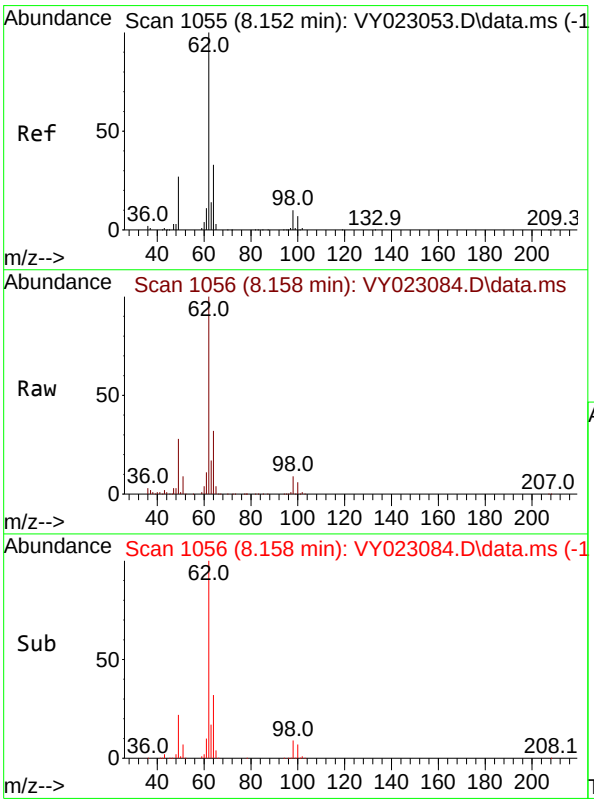
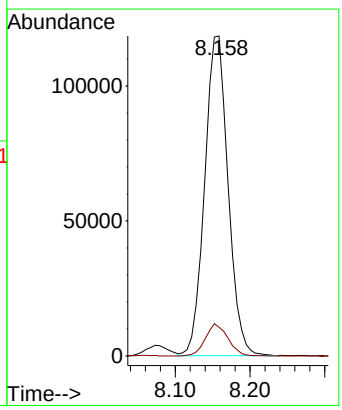
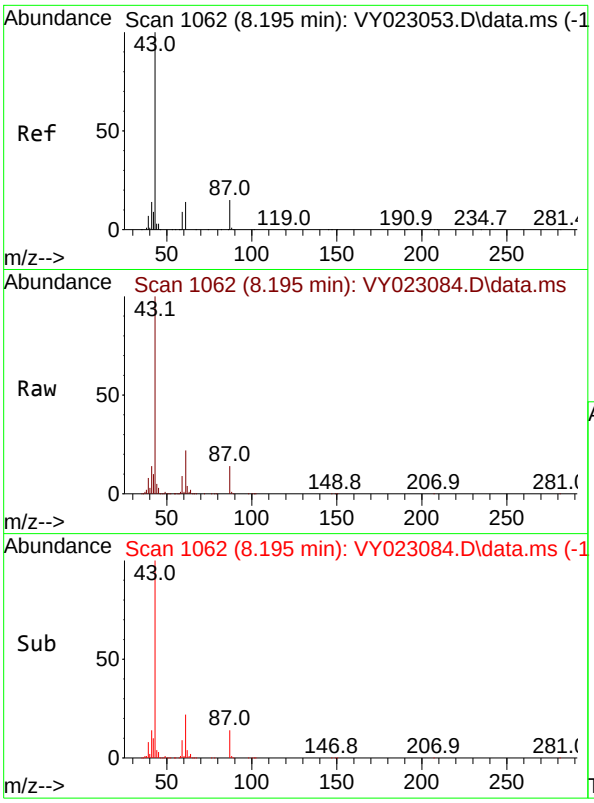



#42
1,2-Dichloroethane
Concen: 55.883 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 62 Resp: 257953

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.6 | 0.0 | 20.6 |






#43
Isopropyl Acetate
Concen: 50.705 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 43 Resp: 24790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 21.2 | 16.4 | 24.6 |
| 87 | 14.2 | 11.8 | 17.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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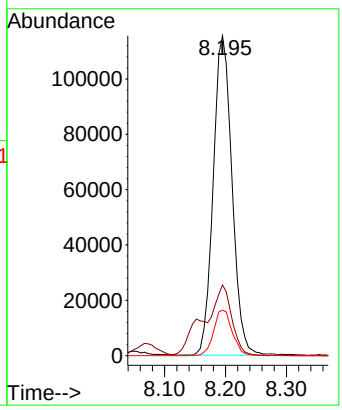
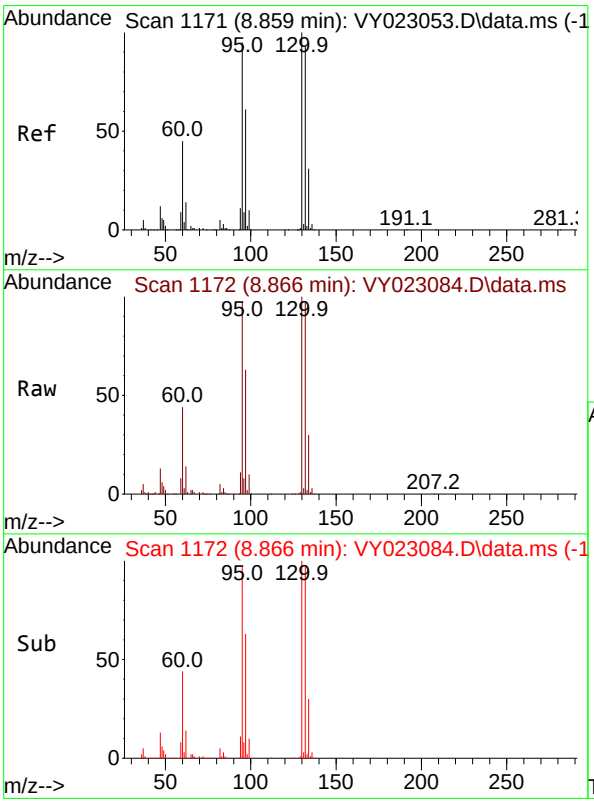
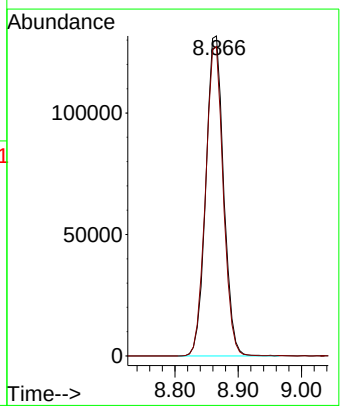


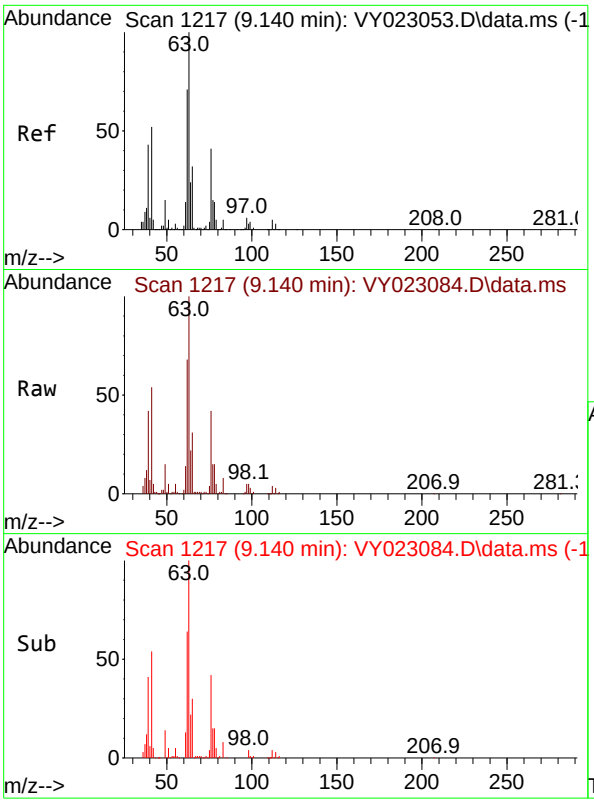




#44
Trichloroethene
Concen: 56.001 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:130 Resp: 256850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 96.7 | 0.0 | 190.2 |

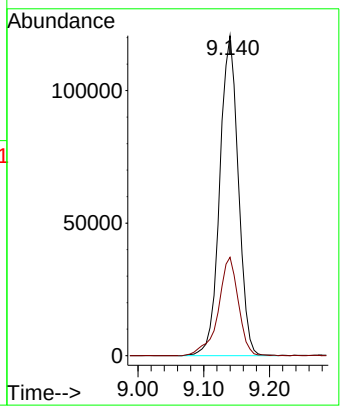





#45
1,2-Dichloropropane
Concen: 58.028 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 63 Resp: 23696

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.7 | 25.3 | 37.9 |




**Instrument :**
MSVOA_Y
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VSTDCCC050

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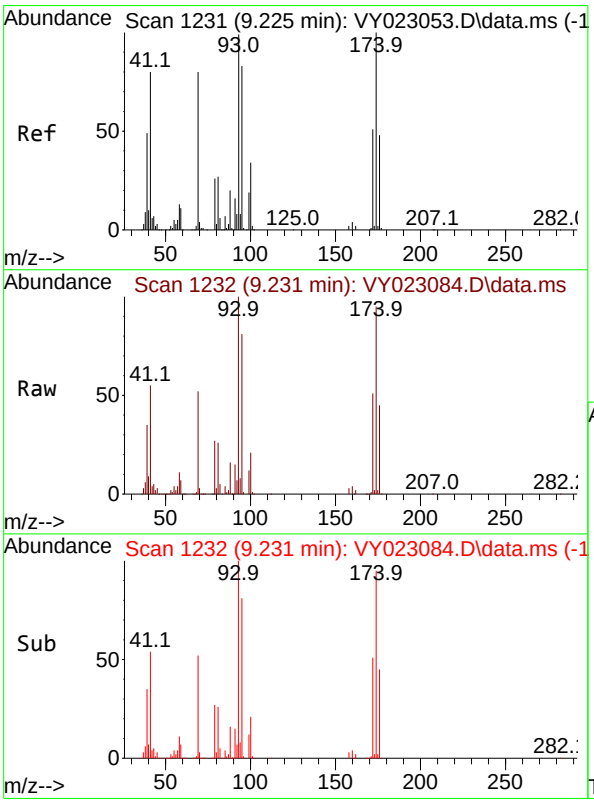
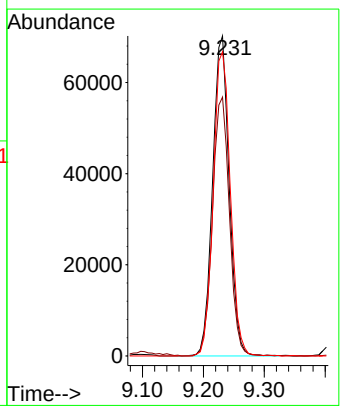
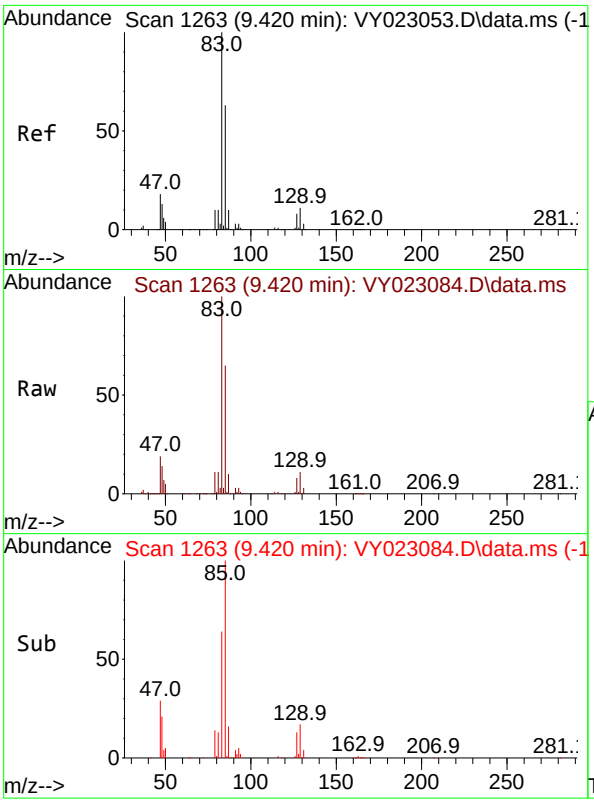



#46
Dibromomethane
Concen: 56.649 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 93 Resp: 132779

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.7 | 66.5 | 99.7 |
| 174 | 98.1 | 81.8 | 122.8 |

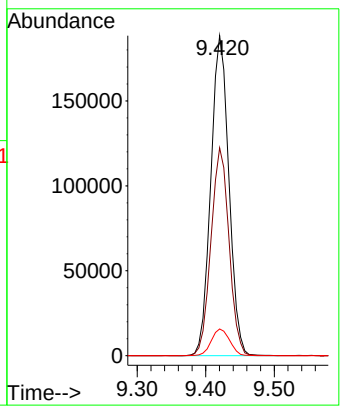





#47
Bromodichloromethane
Concen: 57.122 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 83 Resp: 34451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.0 | 50.2 | 75.4 |
| 127 | 8.3 | 6.6 | 10.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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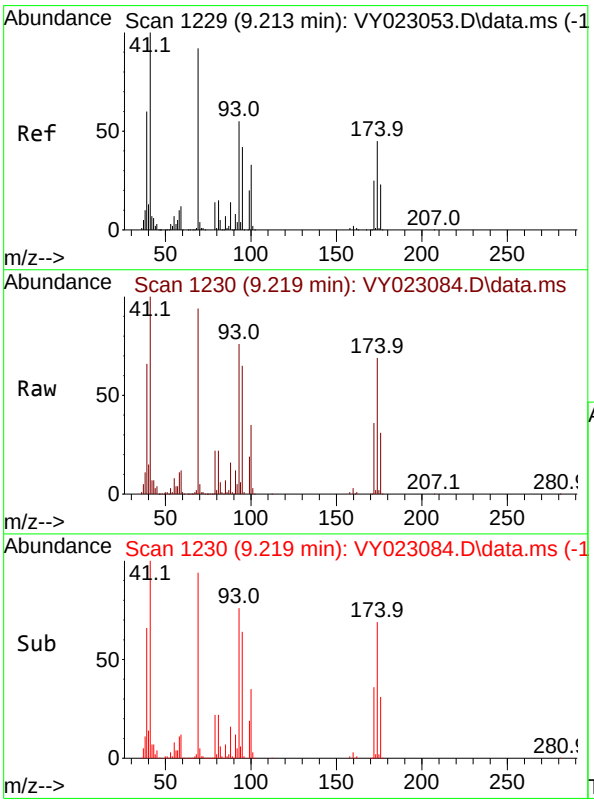
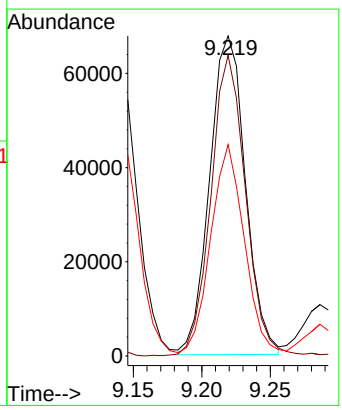
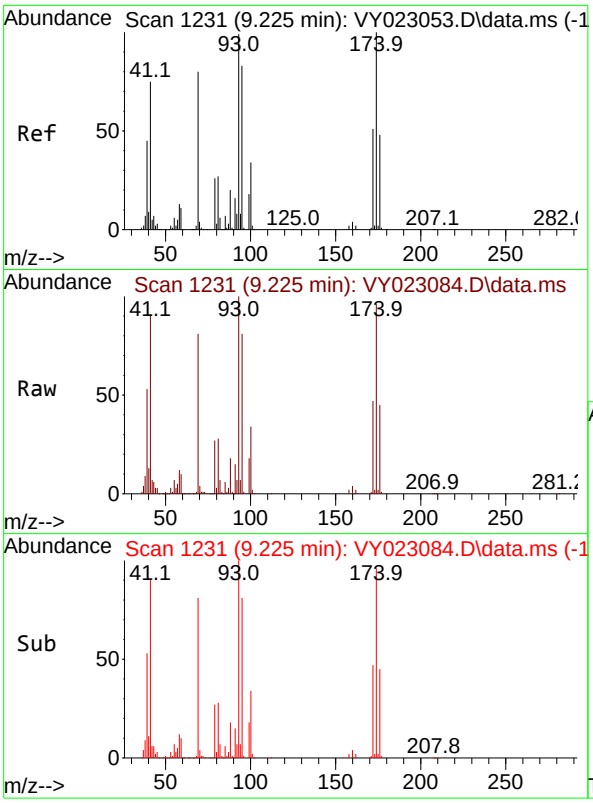



#48
Methyl methacrylate
Concen: 52.585 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 41 Resp: 123024

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 91.9 | 73.2 | 109.8 |
| 39 | 60.6 | 47.0 | 70.4 |






#49
1,4-Dioxane
Concen: 1033.218 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 88 Resp: 2839

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 32.2 | 24.3 | 36.5 |
| 58 | 64.3 | 55.4 | 83.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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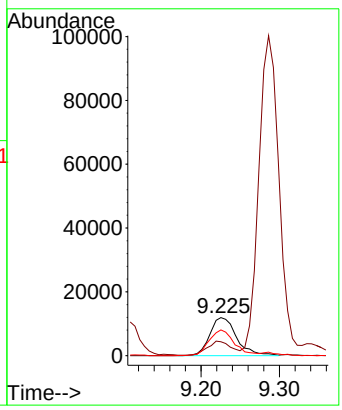
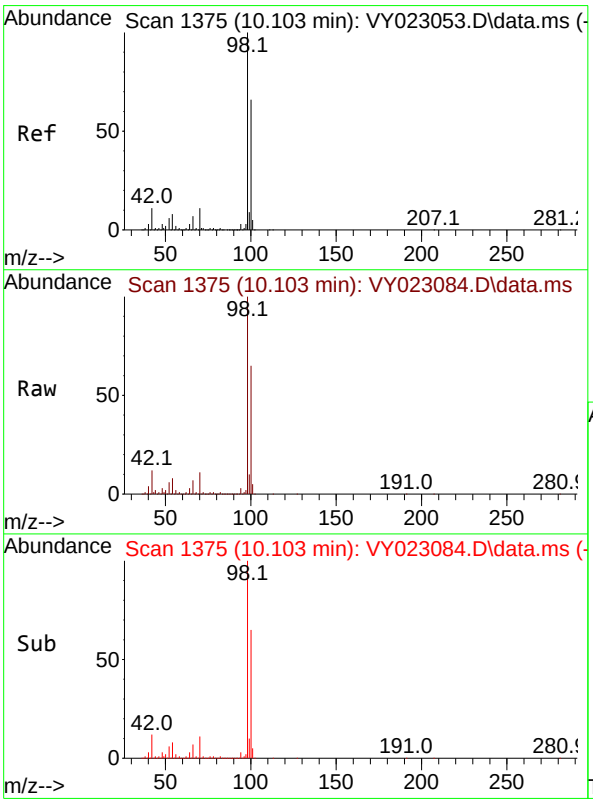
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

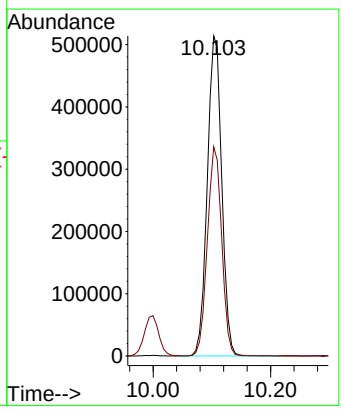


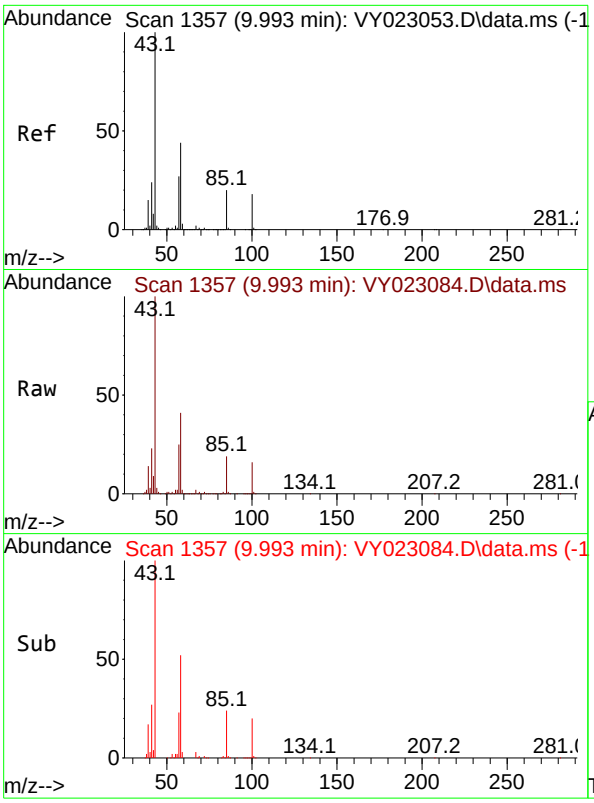




#50
Toluene-d8
Concen: 57.835 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 98 Resp: 875441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.8 | 52.3 | 78.5 |

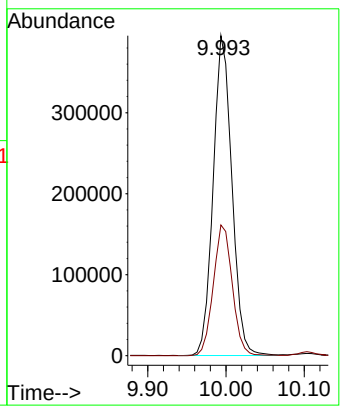





#51
4-Methyl-2-Pentanone
Concen: 260.657 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 43 Resp: 65735

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 41.5 | 33.5 | 50.3 |




**Instrument :**
MSVOA_Y
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VSTDCCC050

**Manual Integrations**
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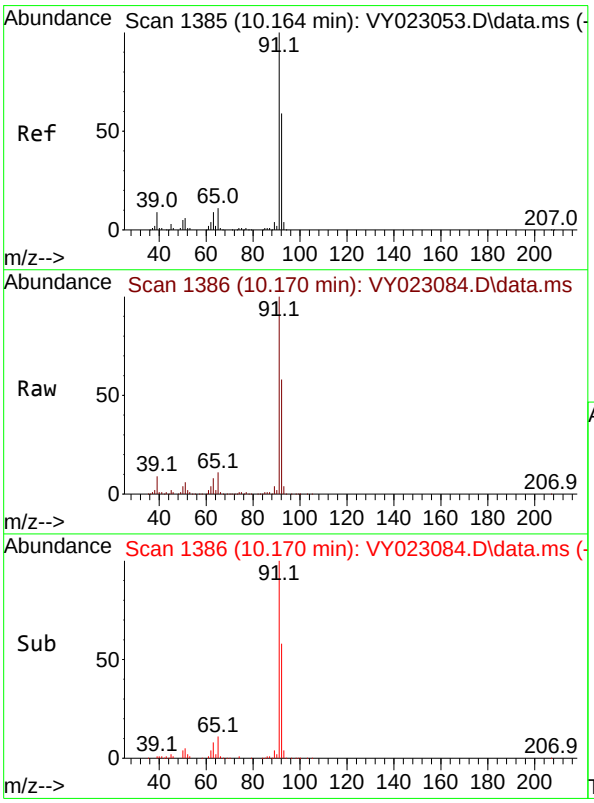
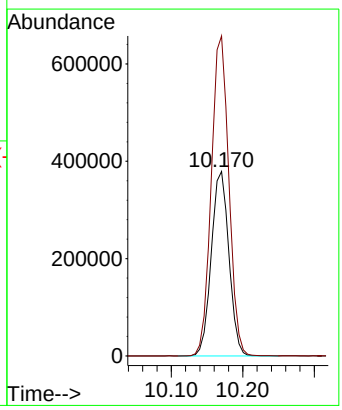
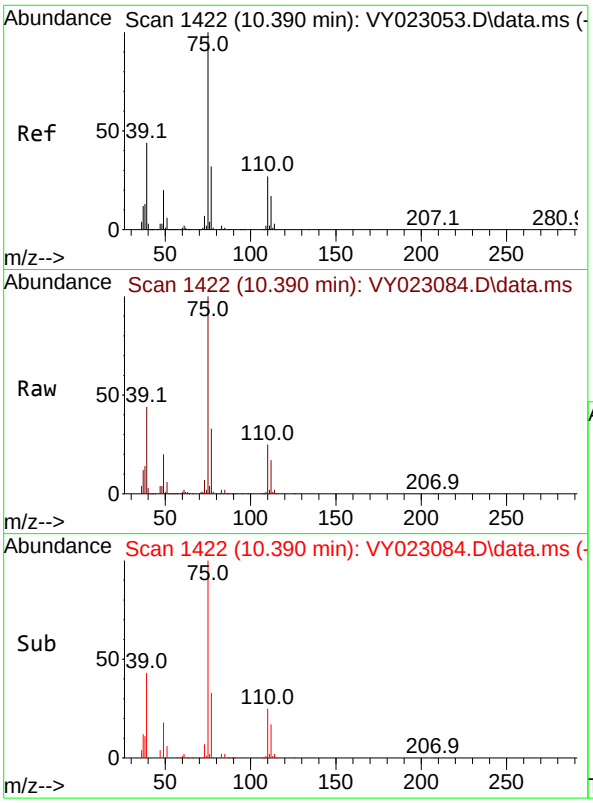



#52
Toluene
Concen: 57.441 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 92 Resp: 647492

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 173.1 | 136.4 | 204.6 |

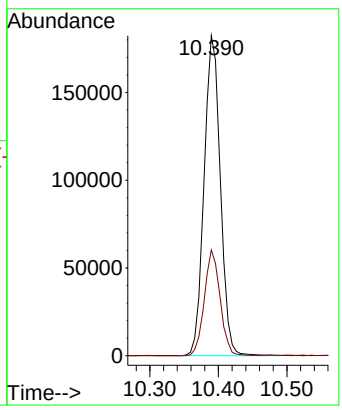





#53
t-1,3-Dichloropropene
Concen: 55.165 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 75 Resp: 30128

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 33.1 | 25.7 | 38.5 |




**Instrument :**
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VSTDCCC050

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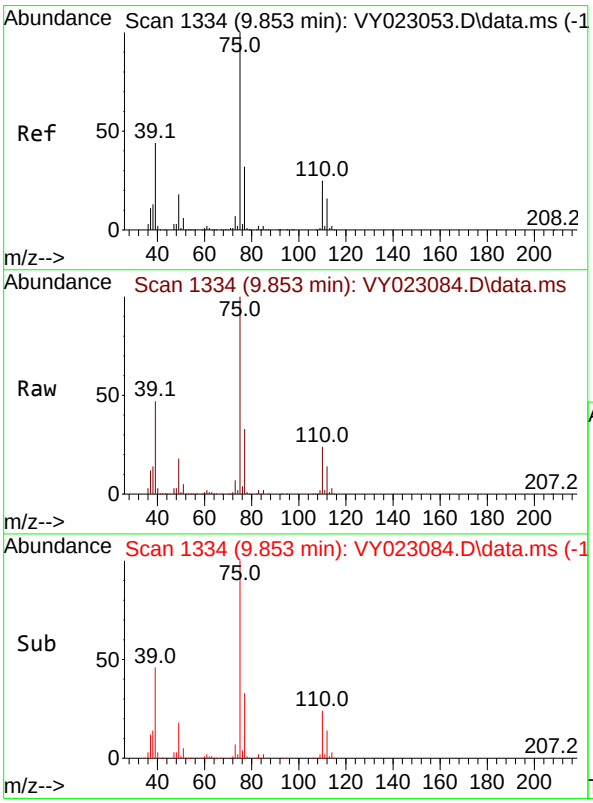
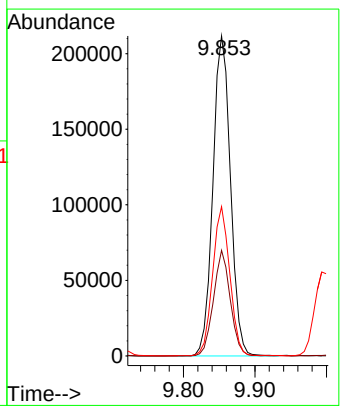
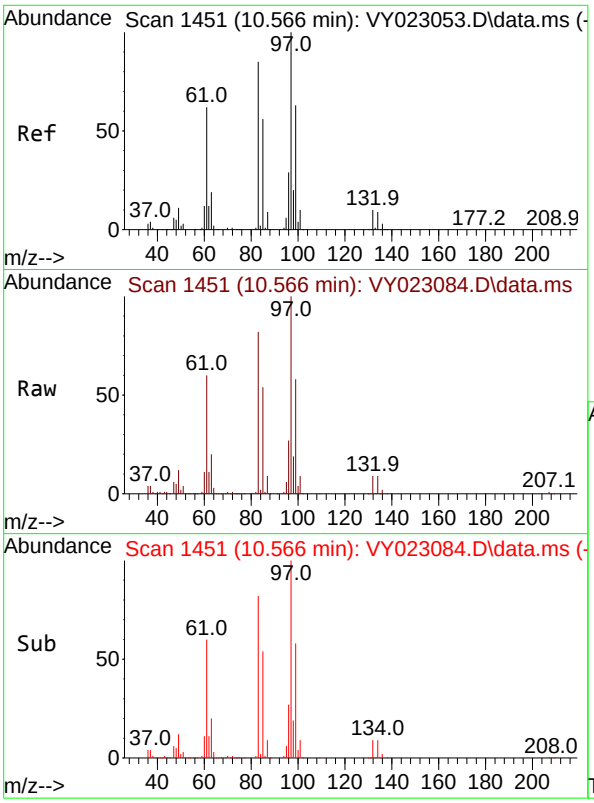



#54
cis-1,3-Dichloropropene
Concen: 55.890 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 75 Resp: 360945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 33.0 | 25.4 | 38.0 |
| 39 | 46.5 | 35.6 | 53.4 |

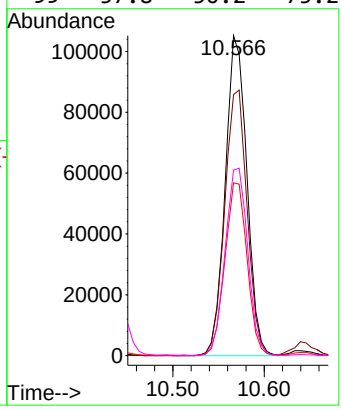





#55
1,1,2-Trichloroethane
Concen: 55.184 ug/l
RT: 10.566 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 97 Resp: 173079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 81.6 | 67.7 | 101.5 |
| 85 | 54.0 | 44.5 | 66.7 |
| 99 | 57.8 | 50.2 | 75.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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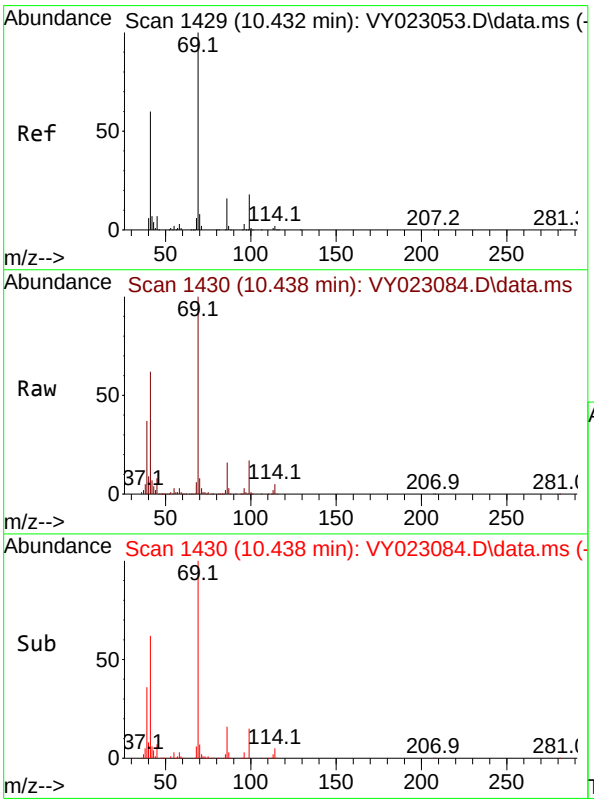
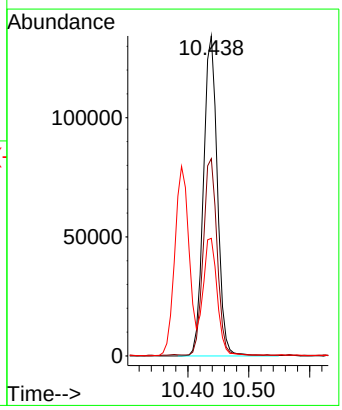
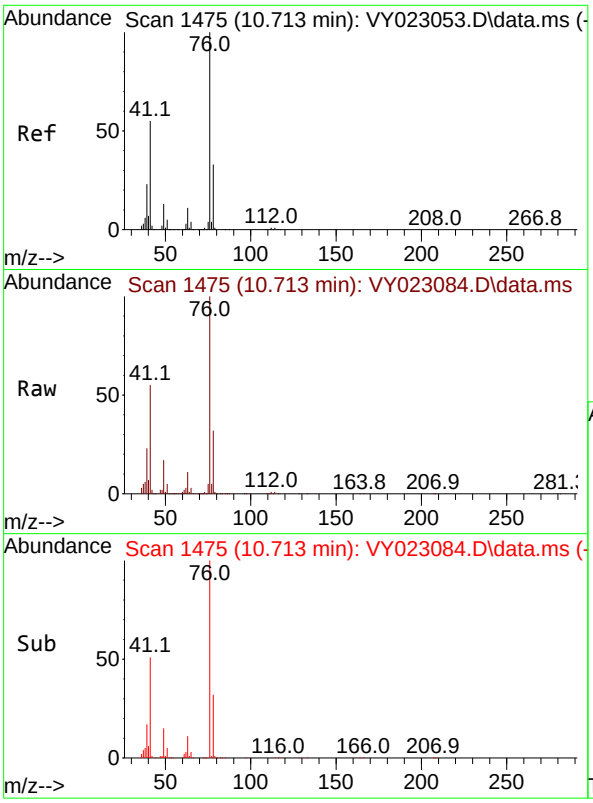



#56
Ethyl methacrylate
Concen: 53.193 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 69 Resp: 213481

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 61.4 | 48.6 | 72.8 |
| 39 | 37.0 | 27.0 | 40.4 |

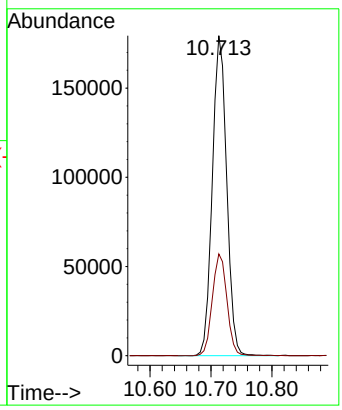





#57
1,3-Dichloropropane
Concen: 55.040 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 76 Resp: 29276

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.4 | 26.0 | 39.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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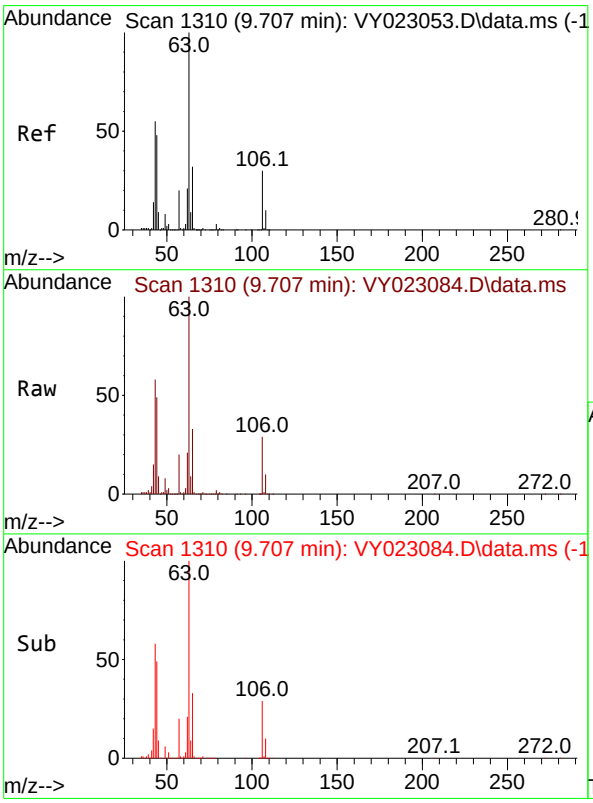
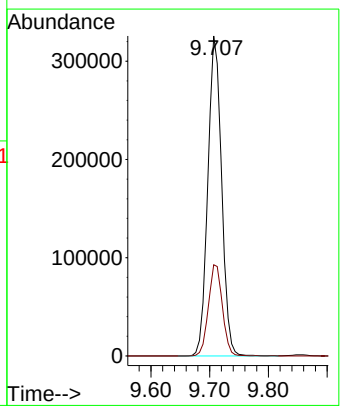
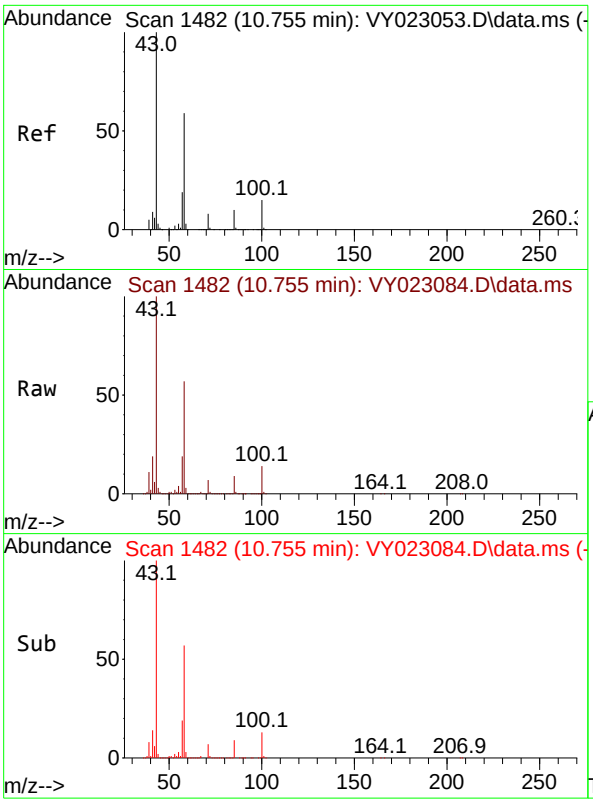



#58
2-Chloroethyl Vinyl ether
Concen: 280.099 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 63 Resp: 530251

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 28.9 | 23.2 | 34.8 |






#59
2-Hexanone
Concen: 257.924 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 43 Resp: 44292

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 57.4 | 29.5 | 88.5 |

**Instrument :**
MSVOA_Y
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VSTDCCC050

**Manual Integrations**
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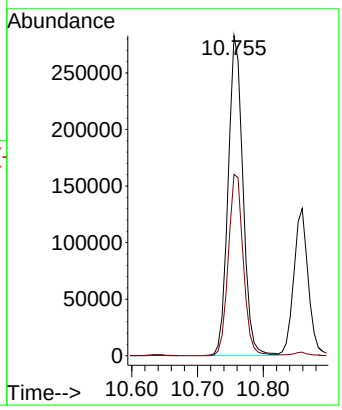
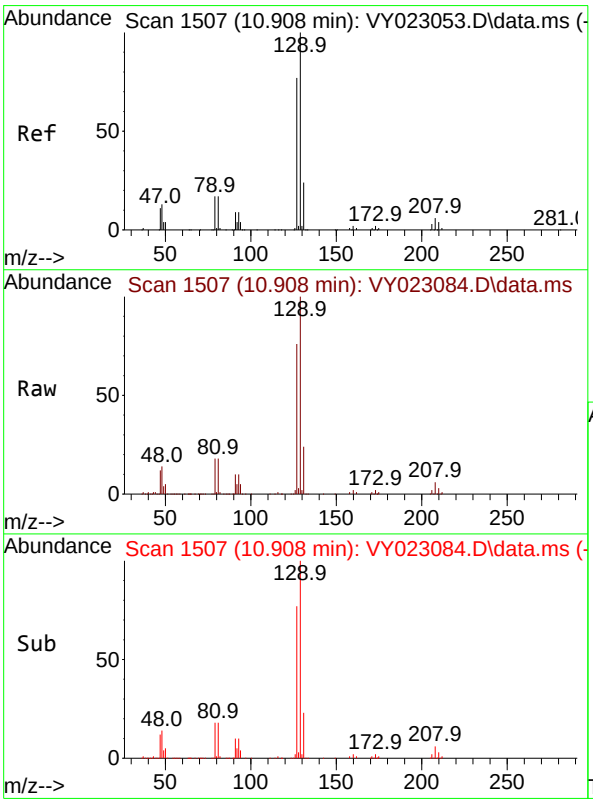
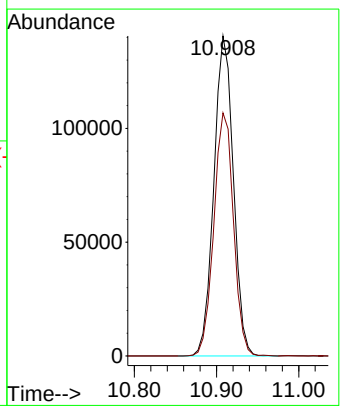


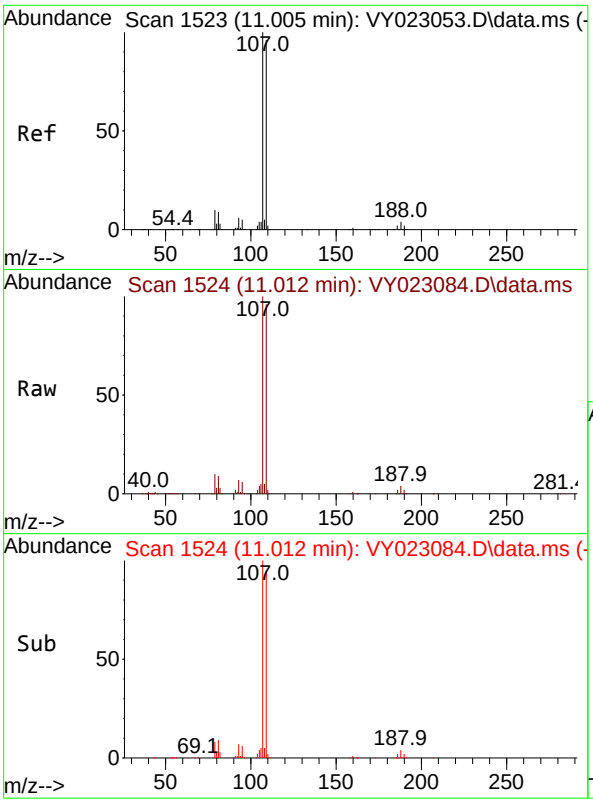




#60
Dibromochloromethane
Concen: 55.947 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:129 Resp: 231534

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 76.7 | 38.5 | 115.5 |

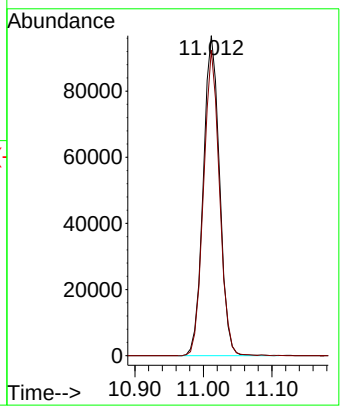





#61
1,2-Dibromoethane
Concen: 54.265 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:107 Resp: 15996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.4 | 75.6 | 113.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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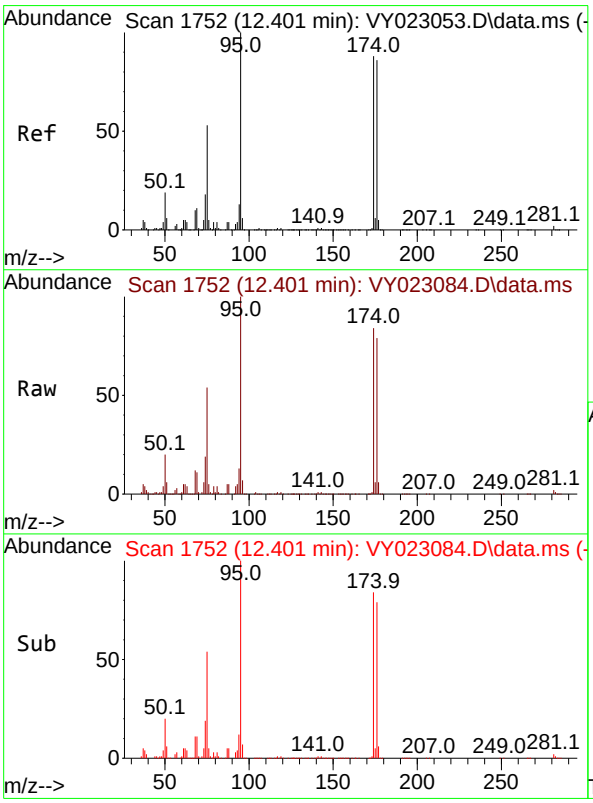
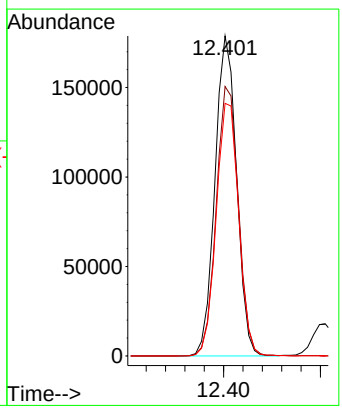
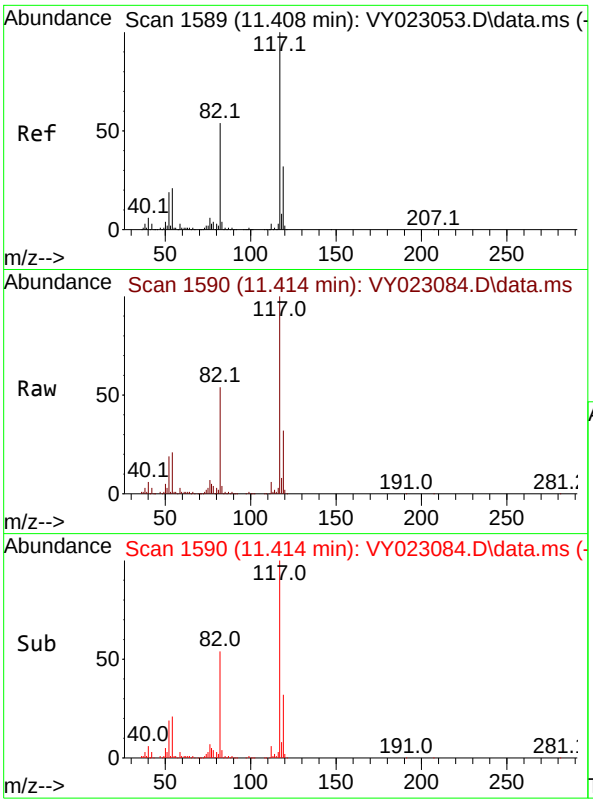



#62
4-Bromofluorobenzene
Concen: 56.822 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 95 Resp: 276611

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 86.6 | 0.0 | 171.6 |
| 176 | 82.3 | 0.0 | 167.6 |

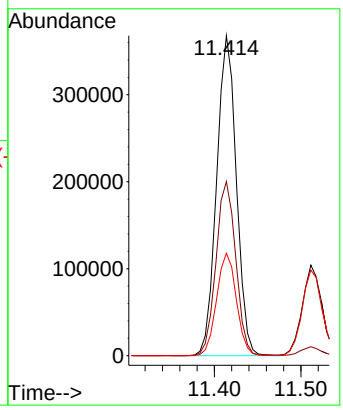





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:117 Resp: 58204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.4 | 43.4 | 65.0 |
| 119 | 32.0 | 25.6 | 38.4 |




**Instrument :**
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VSTDCCC050

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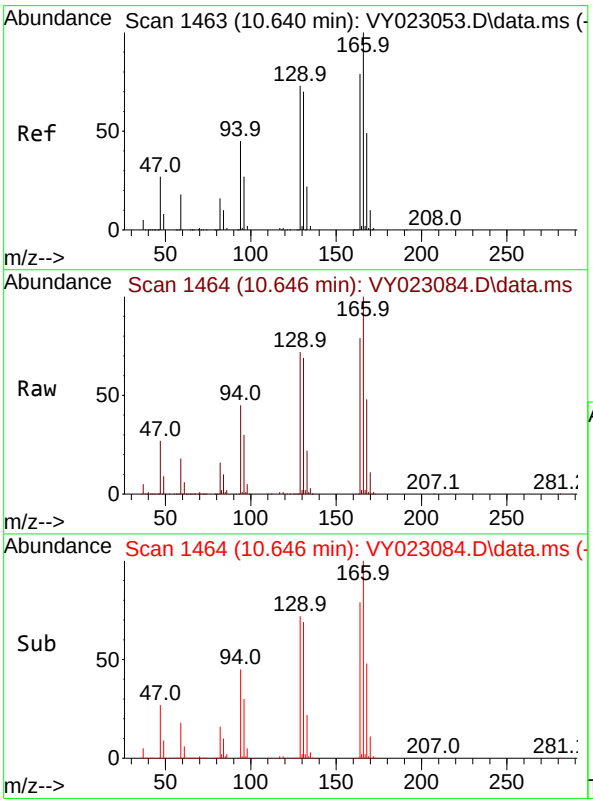
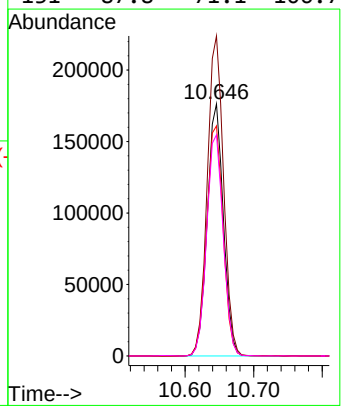
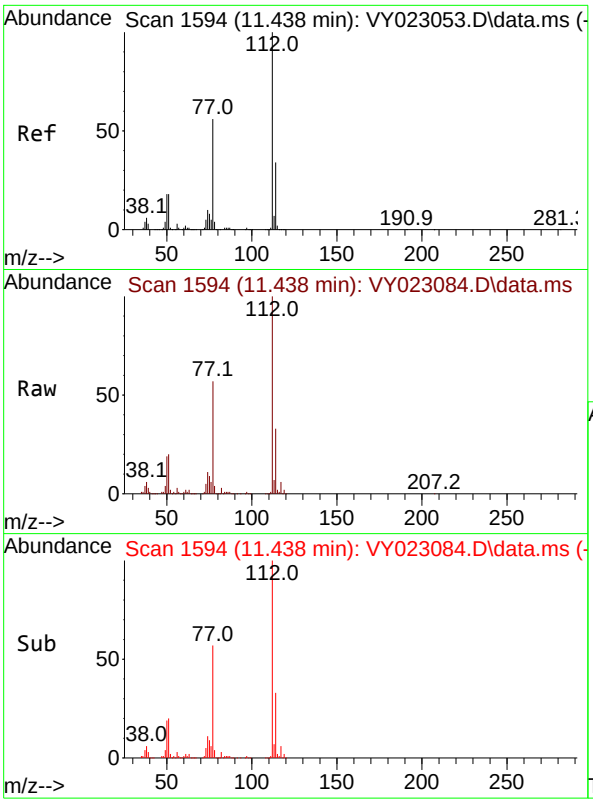



#64
Tetrachloroethene
Concen: 55.420 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:164 Resp: 288037

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 127.0 | 101.1 | 151.7 |
| 129 | 91.4 | 74.0 | 111.0 |
| 131 | 87.8 | 71.1 | 106.7 |

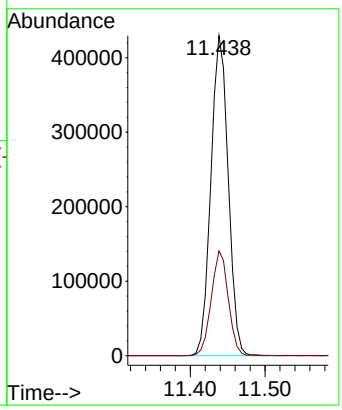





#65
Chlorobenzene
Concen: 55.261 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:112 Resp: 69378

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.7 | 27.0 | 40.4 |




**Instrument :**
MSVOA_Y
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VSTDCCC050

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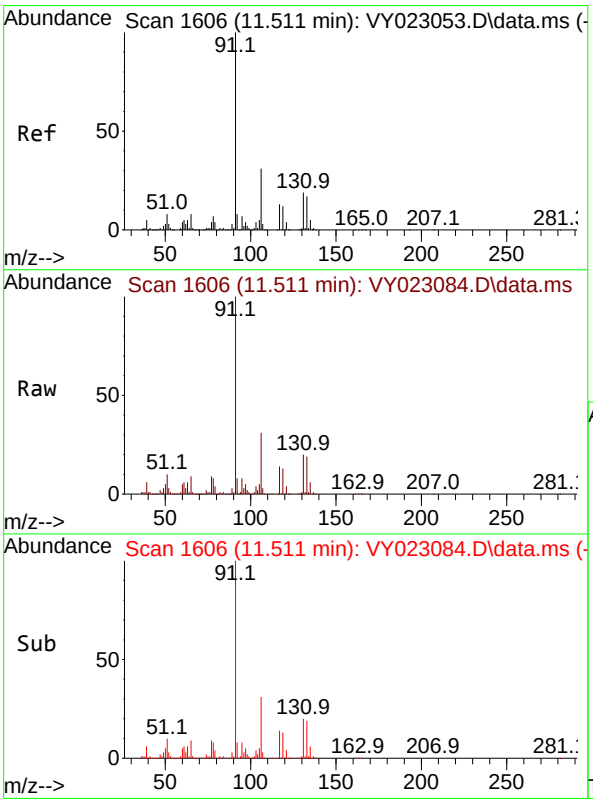
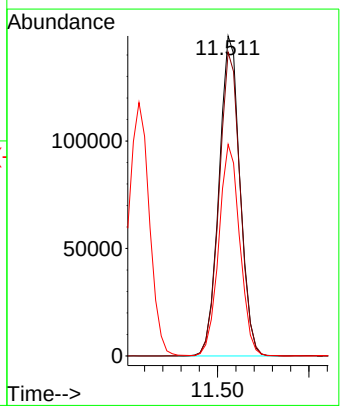
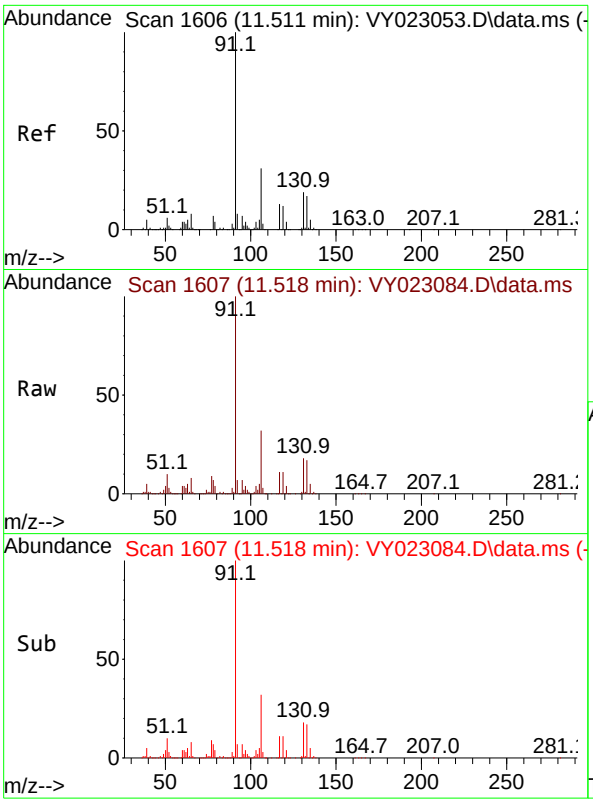



#66
1,1,1,2-Tetrachloroethane
Concen: 55.623 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:131 Resp: 237008

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.6 | 46.9 | 140.6 |
| 119 | 66.3 | 33.2 | 99.6 |

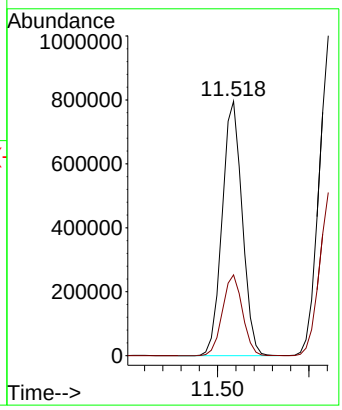





#67
Ethyl Benzene
Concen: 56.146 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 91 Resp: 121307

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.8 | 25.0 | 37.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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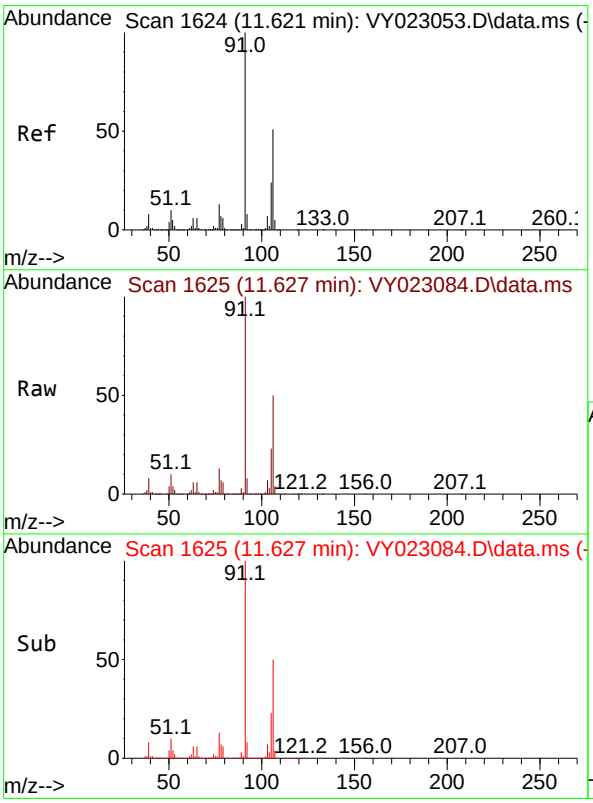
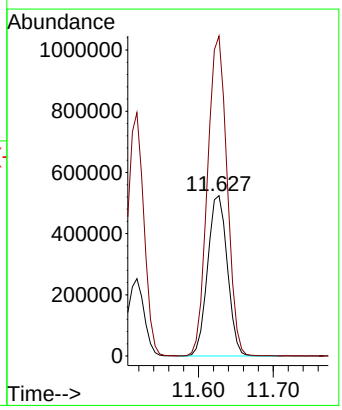
Supervised By :Mahesh Dadoda 08/19/2025

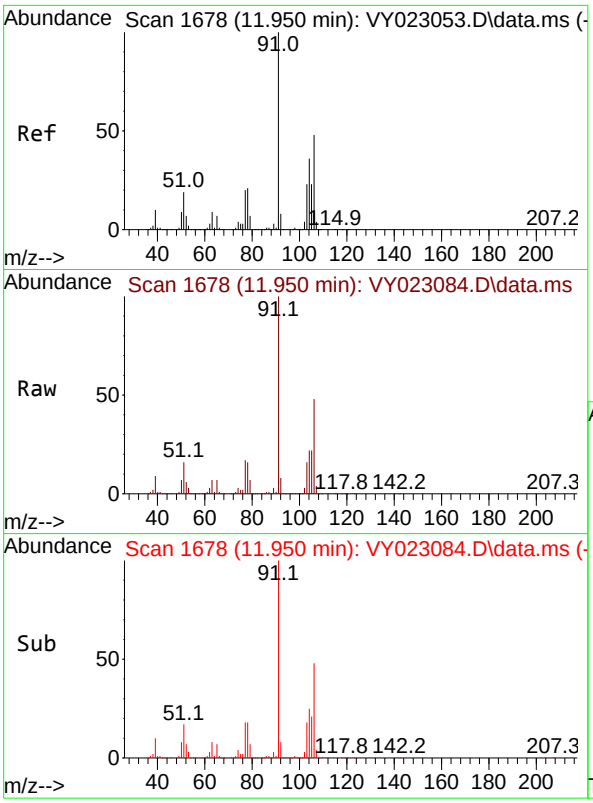



#68
m/p-Xylenes
Concen: 113.678 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:106 Resp: 959256

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 198.3 | 158.6 | 238.0 |






#69
o-Xylene
Concen: 56.368 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:106 Resp: 44549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 207.9 | 103.2 | 309.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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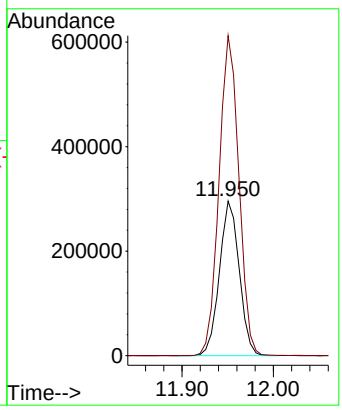
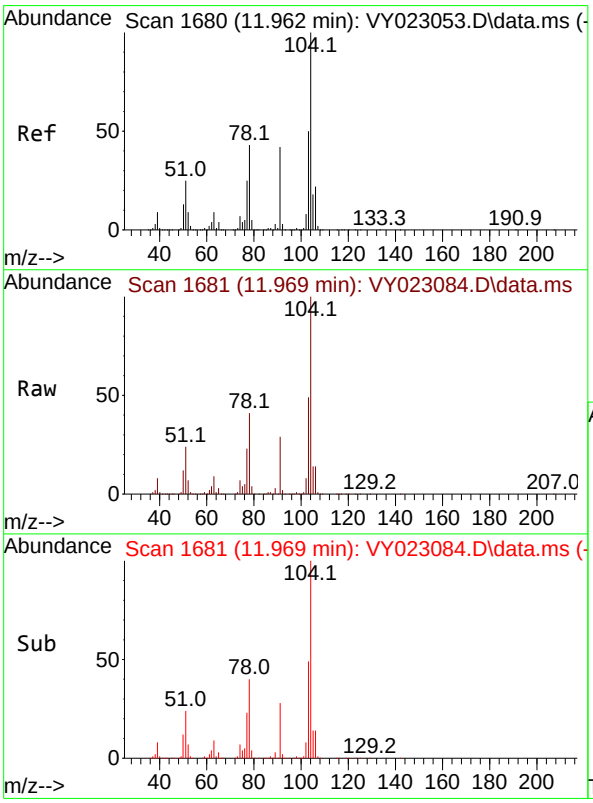
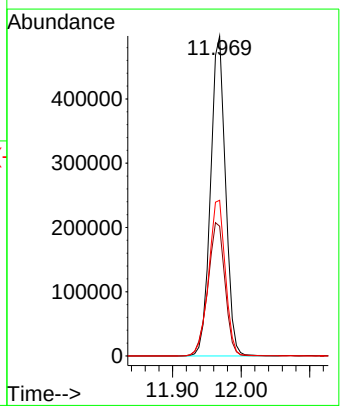


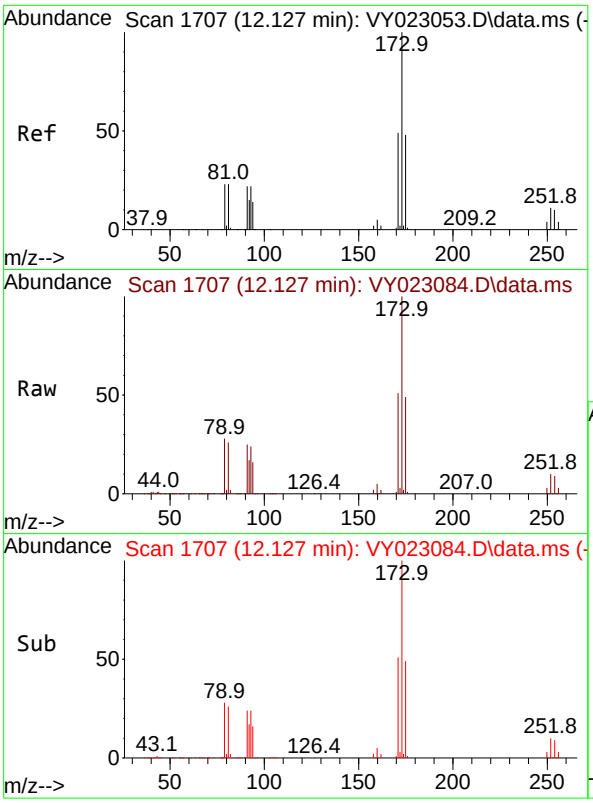




#70
Styrene
Concen: 58.442 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:104 Resp: 755359

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 47.6 | 38.5 | 57.7 |
| 103 | 54.3 | 43.7 | 65.5 |

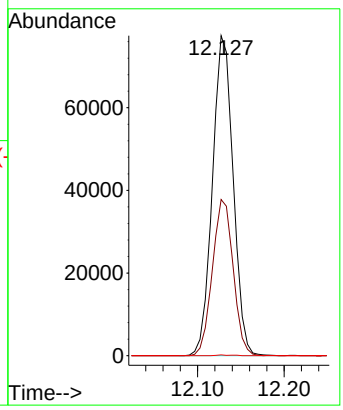





#71
Bromoform
Concen: 51.645 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:173 Resp: 12861

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.0 | 23.9 | 71.7 |
| 254 | 0.2 | 0.1 | 0.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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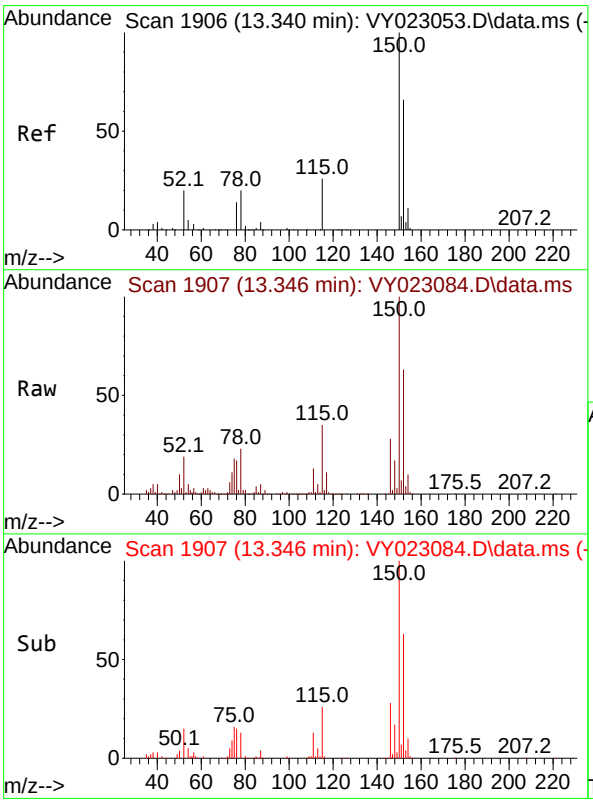
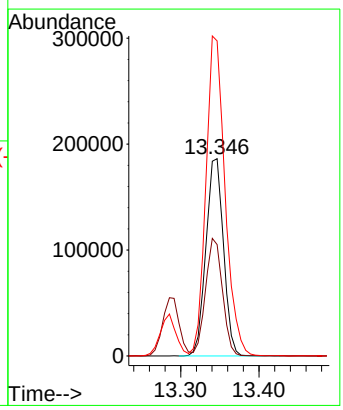
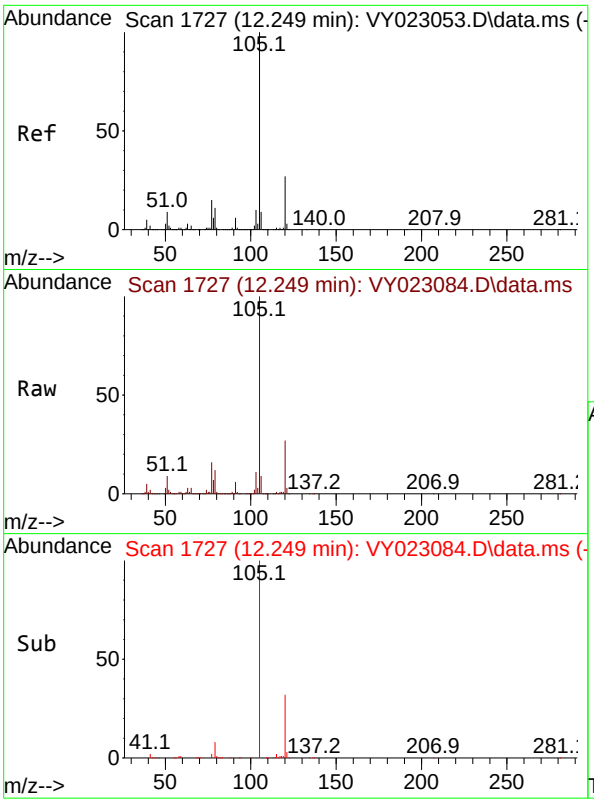



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:152 Resp: 290049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.2 | 28.2 | 84.6 |
| 150 | 176.3 | 0.0 | 348.0 |

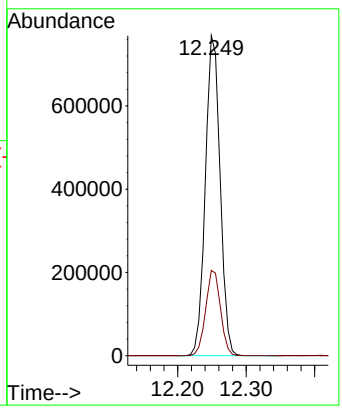





#73
Isopropylbenzene
Concen: 56.330 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:105 Resp: 115314

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.7 | 13.4 | 40.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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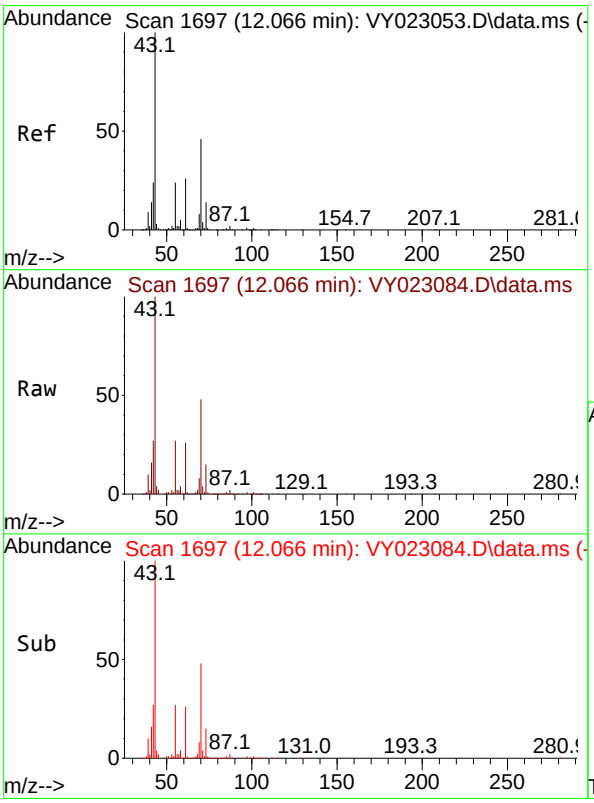
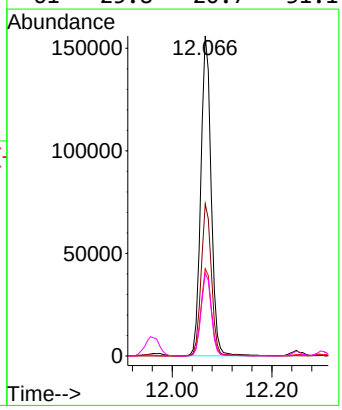
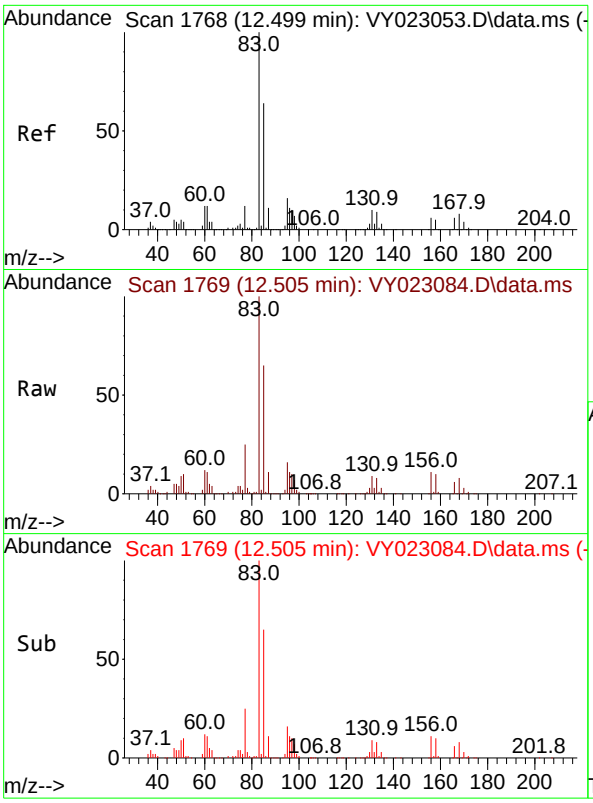



#74
N-amyl acetate
Concen: 51.690 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 43 Resp: 224404

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 47.2 | 37.5 | 56.3 |
| 55 | 27.8 | 20.7 | 31.1 |
| 61 | 25.8 | 20.7 | 31.1 |

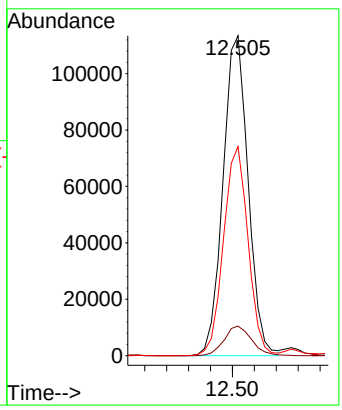





#75
1,1,2,2-Tetrachloroethane
Concen: 51.630 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 83 Resp: 18047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.2 | 5.1 | 15.3 |
| 85 | 64.0 | 31.8 | 95.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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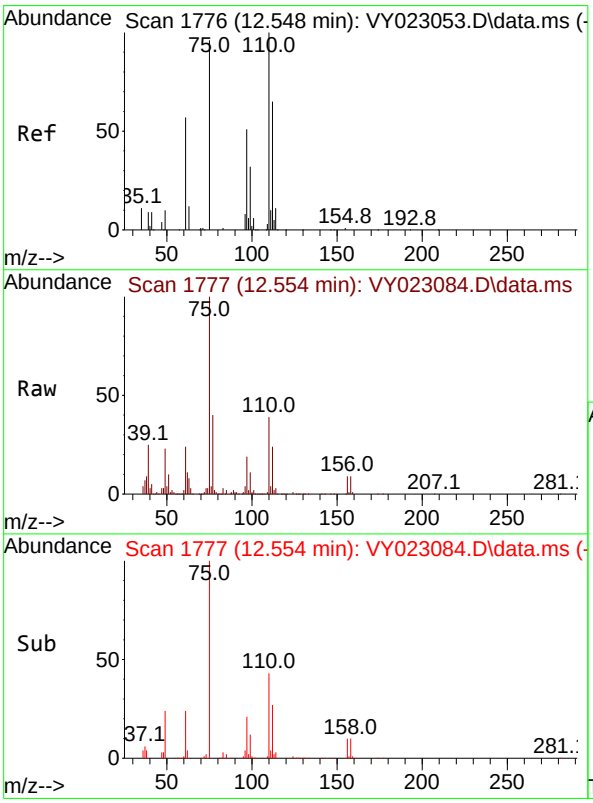
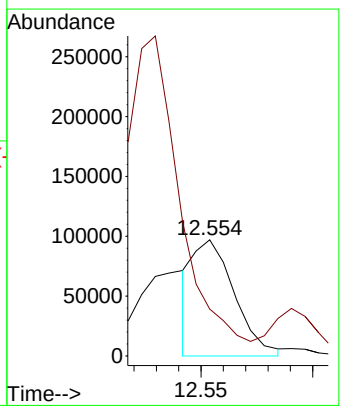
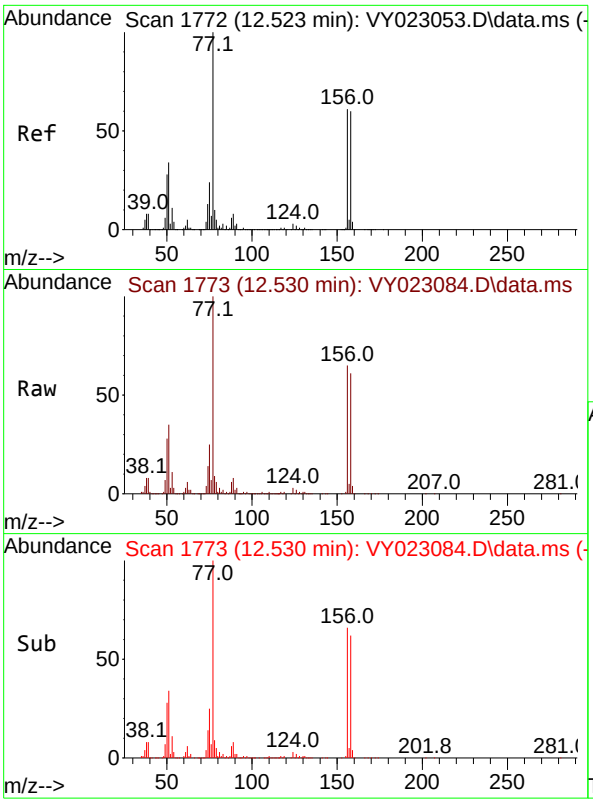



#76
1,2,3-Trichloropropane
Concen: 45.053 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 75 Resp: 126115

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |

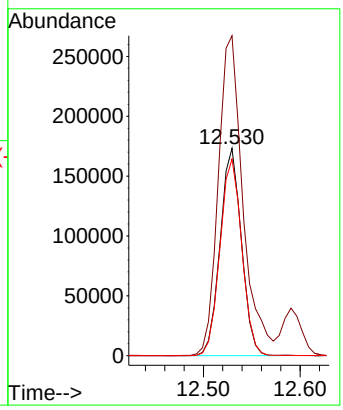





#77
Bromobenzene
Concen: 54.218 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:156 Resp: 26479

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 178.6 | 88.1 | 264.4 |
| 158 | 97.1 | 48.0 | 144.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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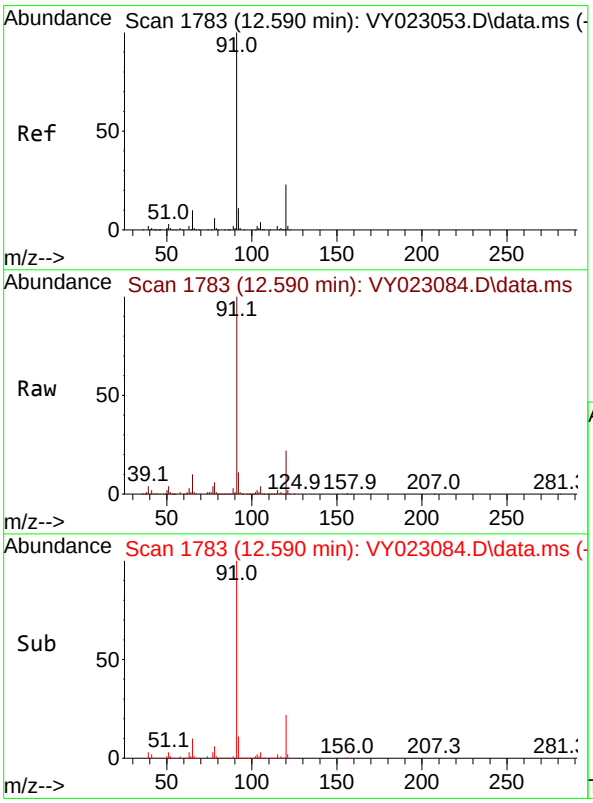
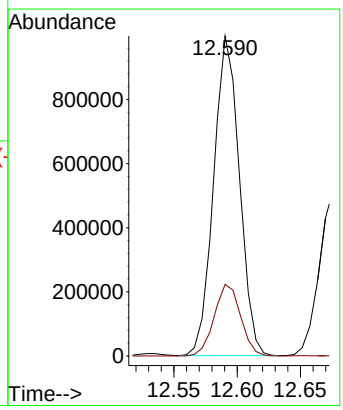
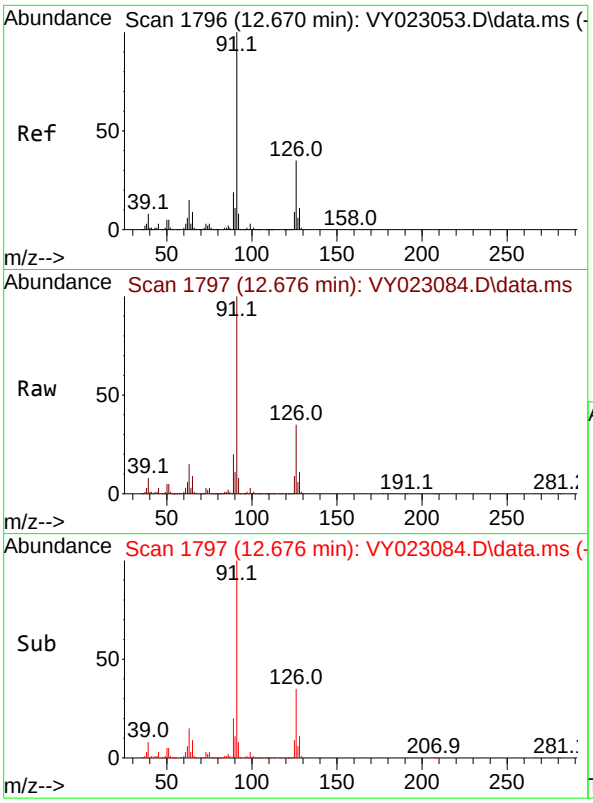



#78
n-propylbenzene
Concen: 57.928 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 91 Resp: 1411858

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.9 | 11.5 | 34.5 |

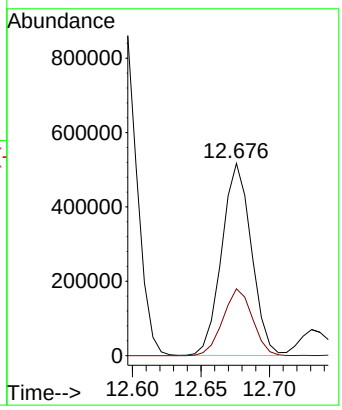





#79
2-Chlorotoluene
Concen: 55.767 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 91 Resp: 77875

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.7 | 17.4 | 52.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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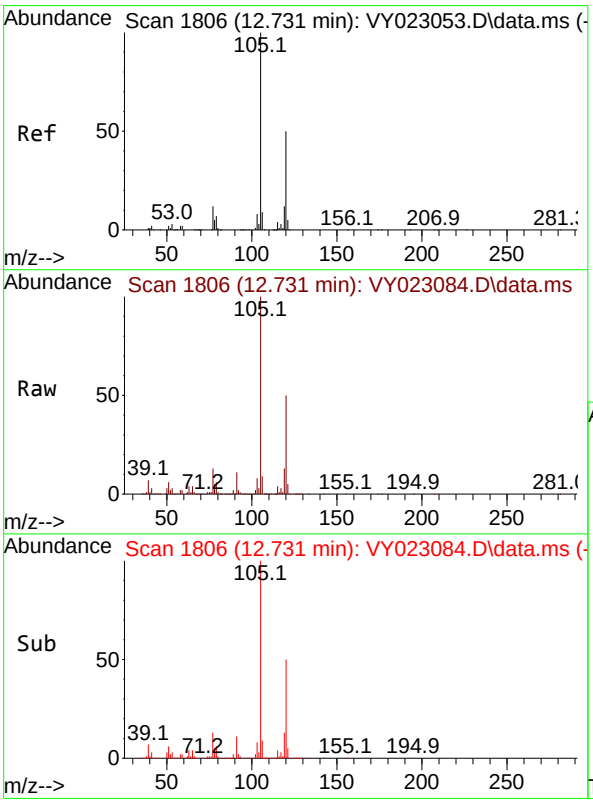
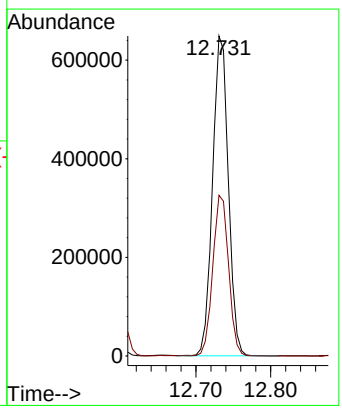
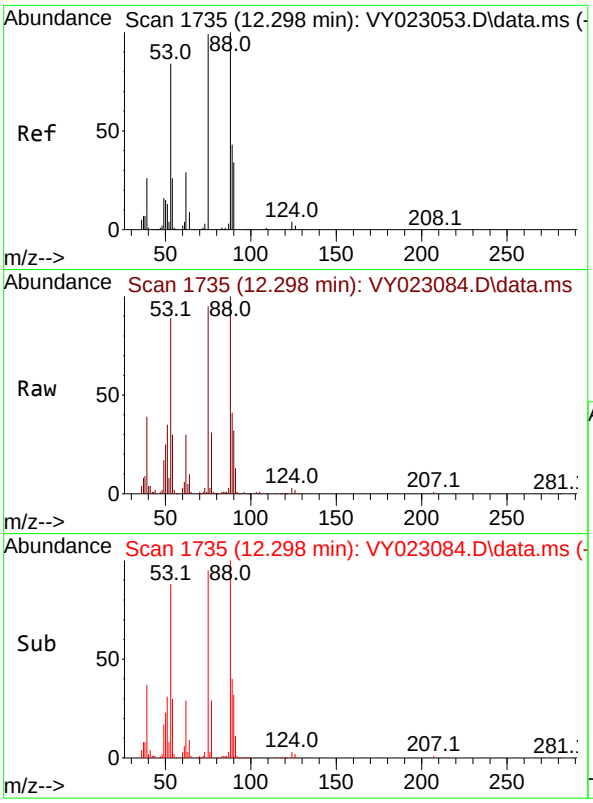



#80
1,3,5-Trimethylbenzene
Concen: 57.421 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:105 Resp: 950021

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 50.3 | 24.8 | 74.4 |

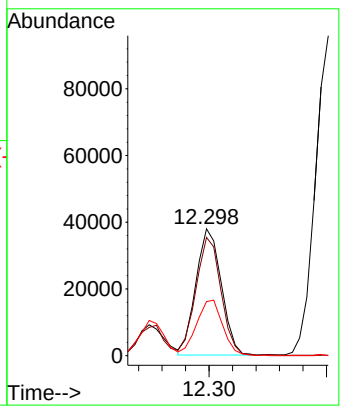





#81
trans-1,4-Dichloro-2-butene
Concen: 49.259 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 75 Resp: 5696

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 92.9 | 70.8 | 106.2 |
| 89 | 45.6 | 38.1 | 57.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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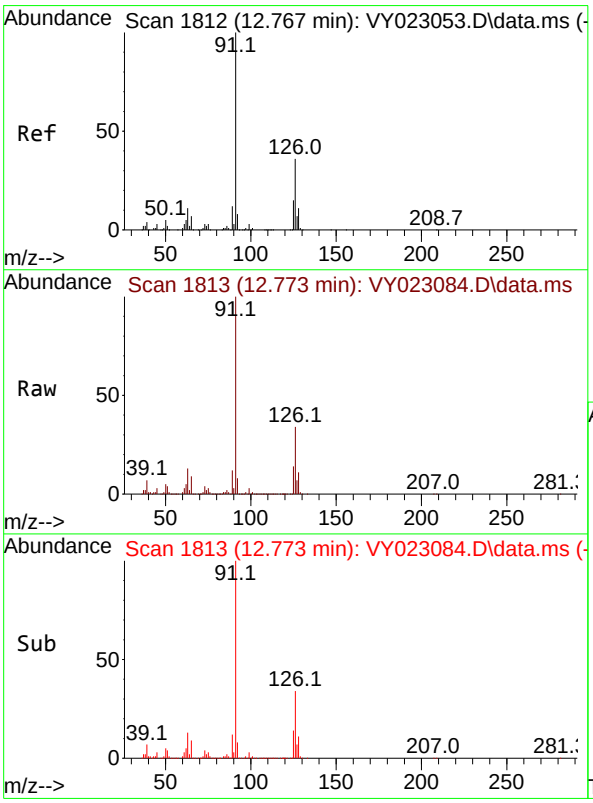
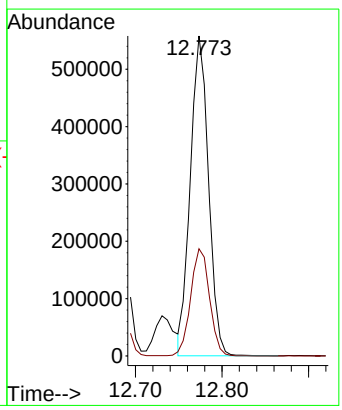
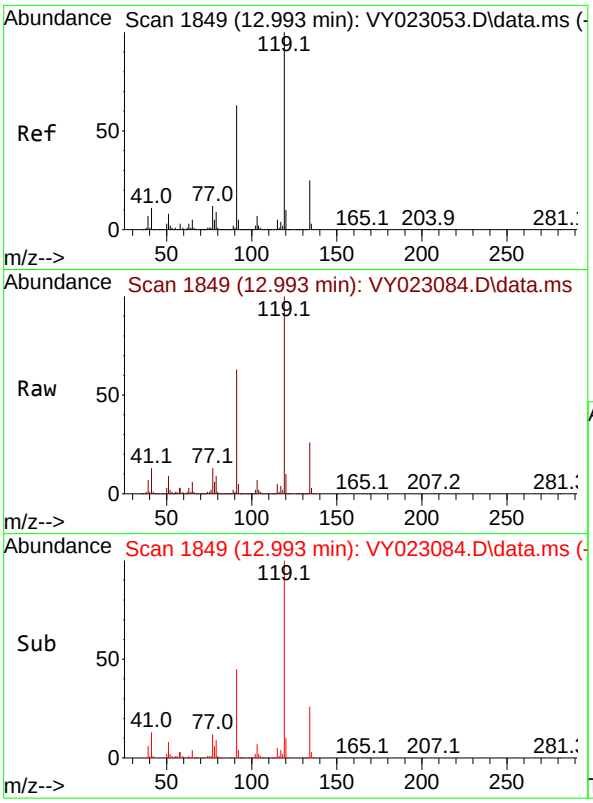



#82
4-Chlorotoluene
Concen: 56.188 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 91 Resp: 813961

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.8 | 17.3 | 52.0 |






#83
tert-Butylbenzene
Concen: 55.552 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:119 Resp: 83009

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 64.3 | 31.6 | 94.8 |
| 134 | 26.6 | 12.9 | 38.7 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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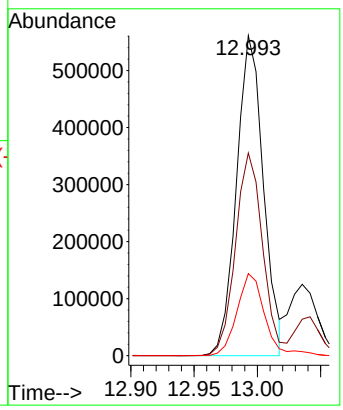
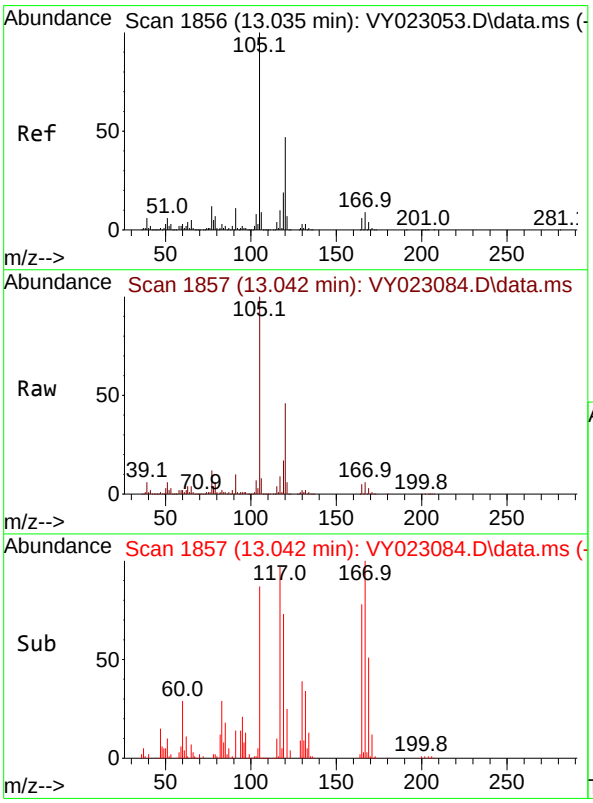
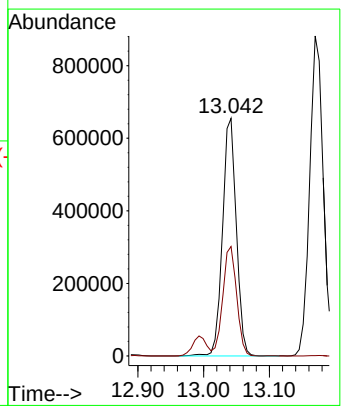


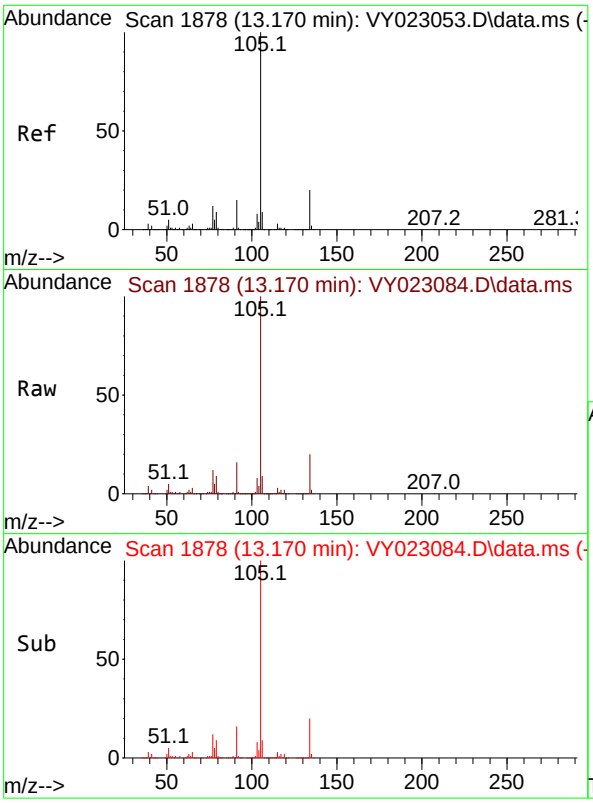




#84
1,2,4-Trimethylbenzene
Concen: 58.063 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:105 Resp: 956285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.3 | 23.0 | 69.0 |






#85
sec-Butylbenzene
Concen: 57.500 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

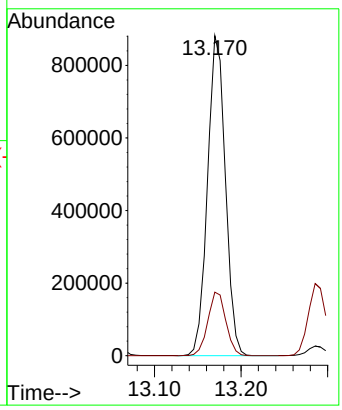
Tgt Ion:105 Resp: 126215

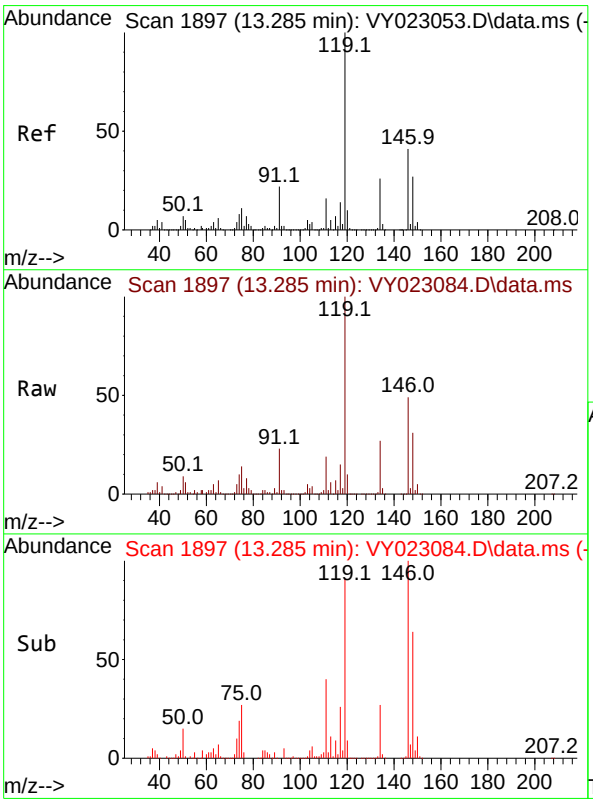
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.1 | 10.2 | 30.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

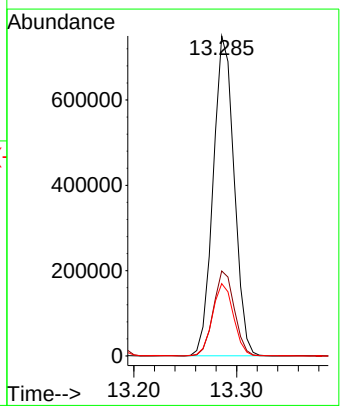


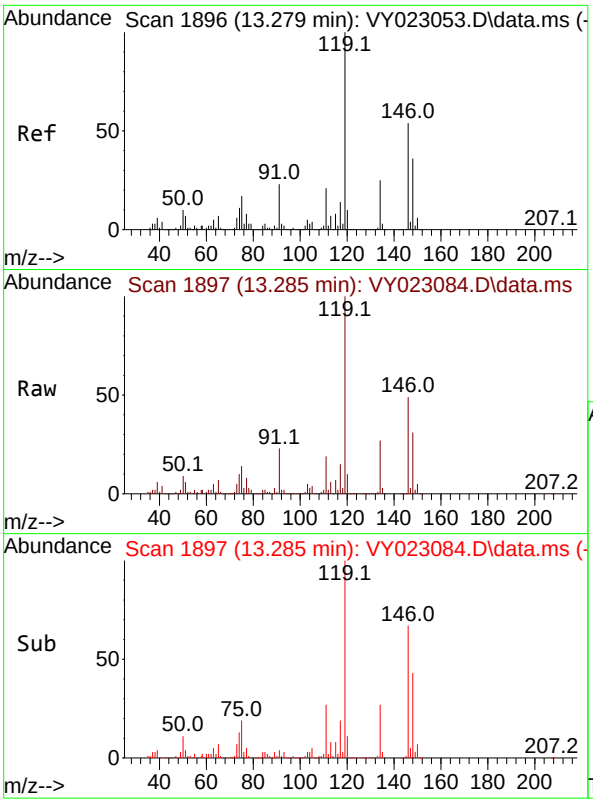




#86
p-Isopropyltoluene
Concen: 58.310 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:119 Resp: 1062415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.5 | 13.2 | 39.6 |
| 91 | 22.6 | 11.3 | 33.8 |

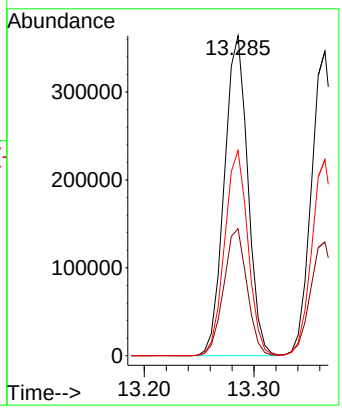





#87
1,3-Dichlorobenzene
Concen: 56.125 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:146 Resp: 54054

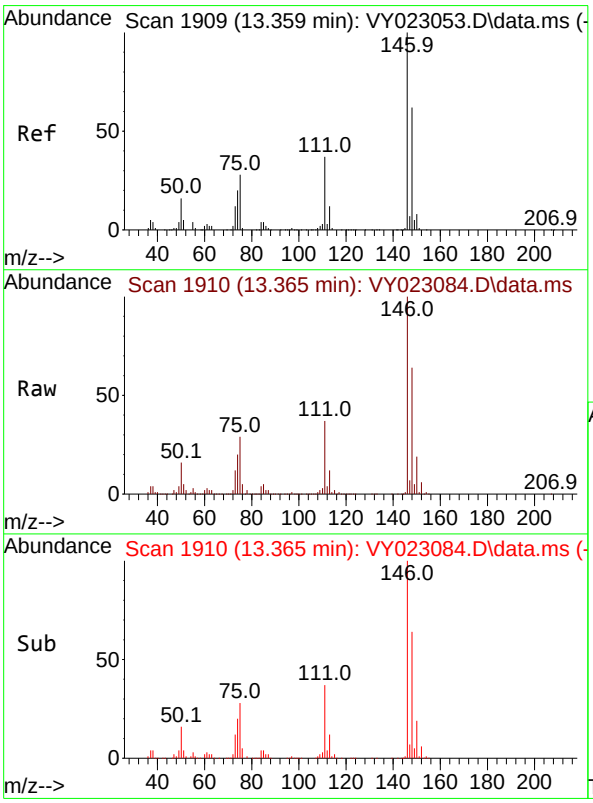
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.6 | 19.6 | 58.7 |
| 148 | 63.8 | 32.5 | 97.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

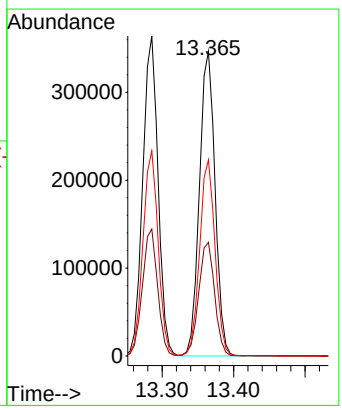
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

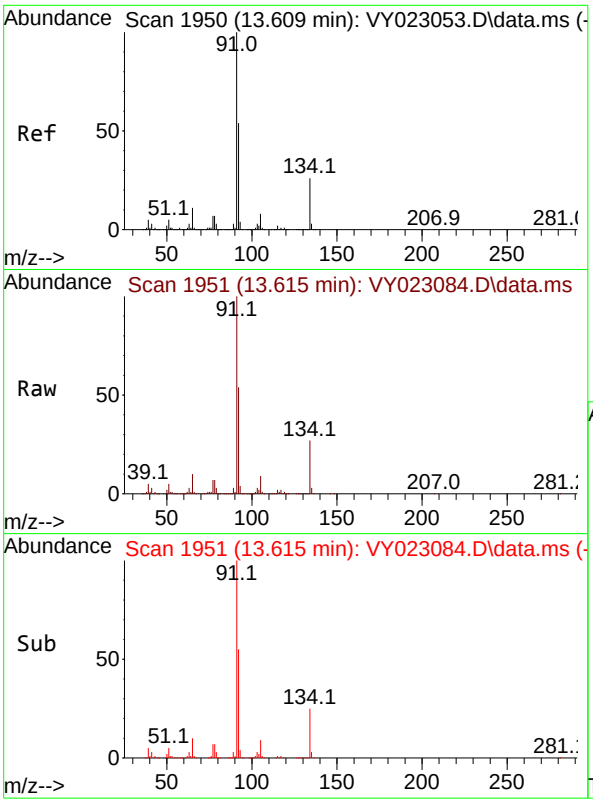



#88
1,4-Dichlorobenzene
Concen: 55.125 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:146 Resp: 526660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.0 | 19.1 | 57.1 |
| 148 | 63.6 | 31.6 | 94.7 |

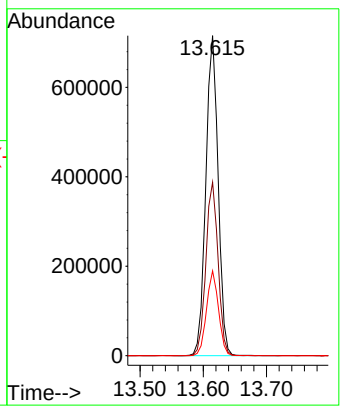





#89
n-Butylbenzene
Concen: 57.904 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 91 Resp: 96897

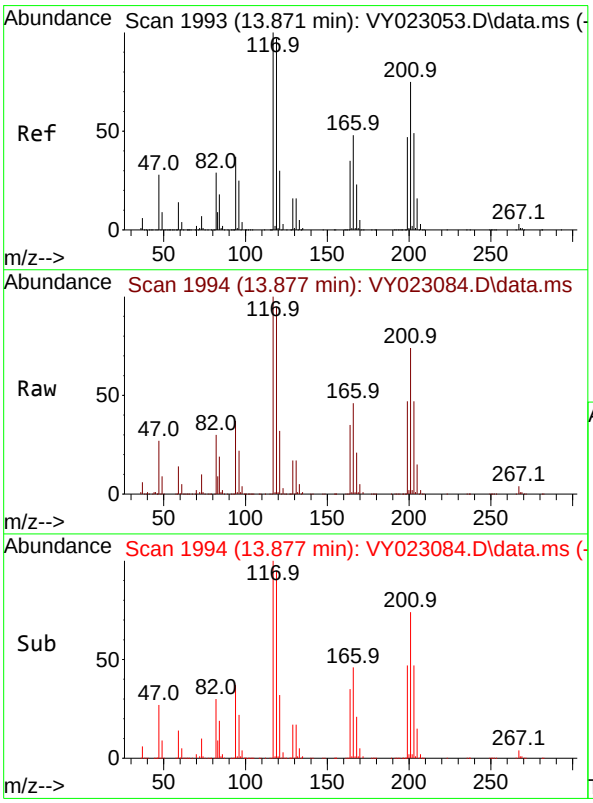
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.9 | 26.9 | 80.7 |
| 134 | 25.8 | 13.2 | 39.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

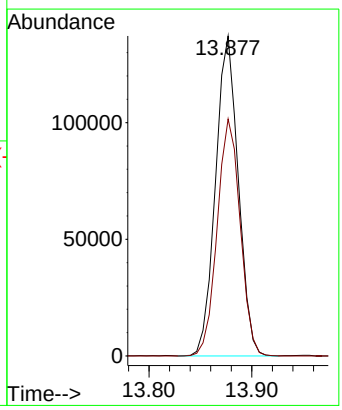
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

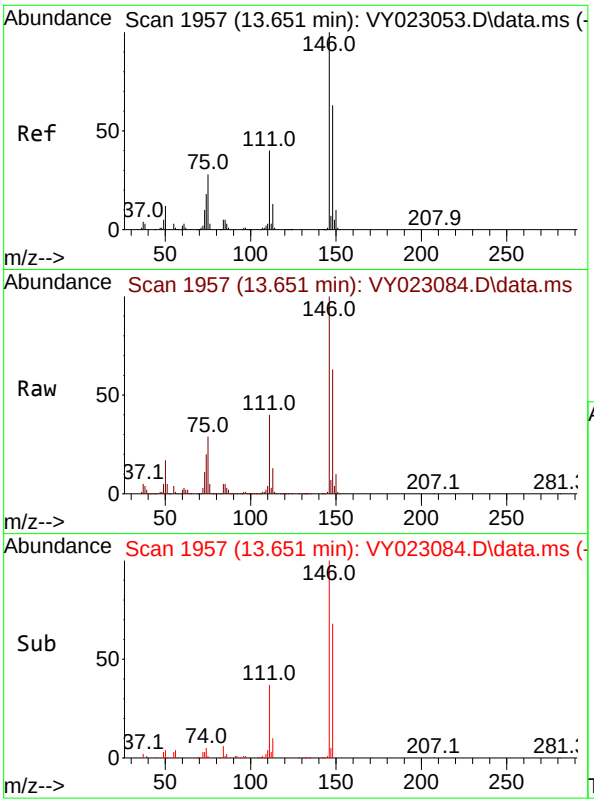



#90
Hexachloroethane
Concen: 56.482 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:117 Resp: 210671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 74.8 | 38.4 | 115.1 |

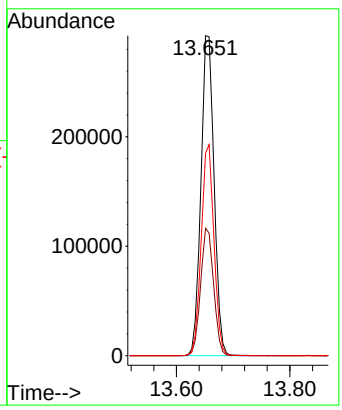





#91
1,2-Dichlorobenzene
Concen: 55.616 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:146 Resp: 46976

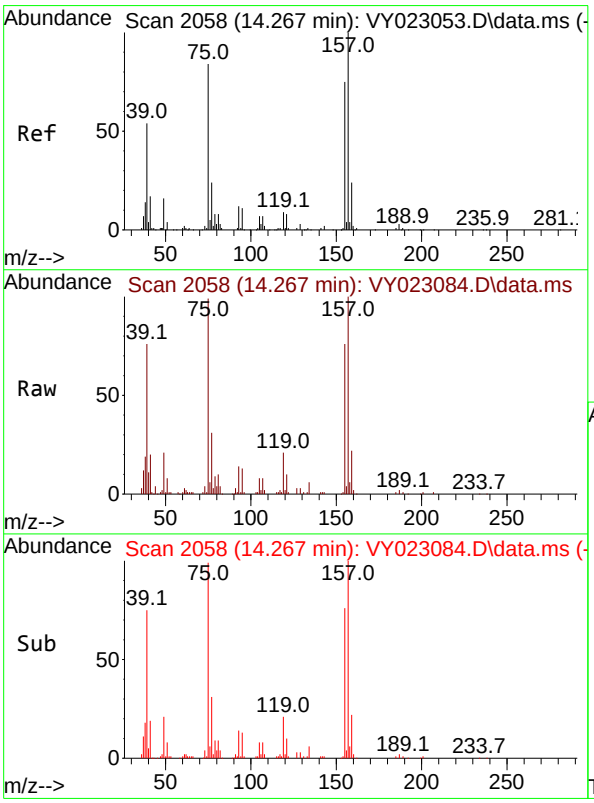
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.5 | 20.3 | 60.8 |
| 148 | 64.0 | 32.2 | 96.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

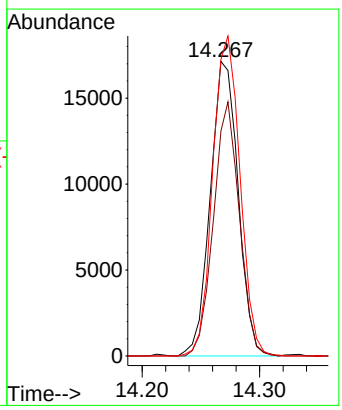
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

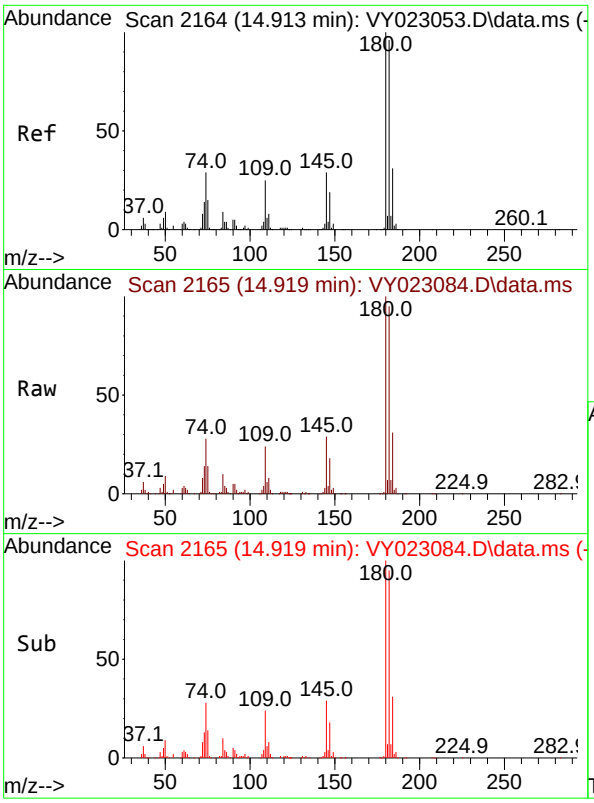



#92
1,2-Dibromo-3-Chloropropane
Concen: 51.839 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 75 Resp: 28212

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 80.2 | 43.9 | 131.6 |
| 157 | 106.5 | 57.2 | 171.6 |

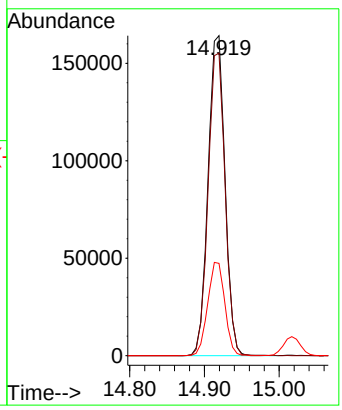





#93
1,2,4-Trichlorobenzene
Concen: 51.769 ug/l
RT: 14.919 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:180 Resp: 25858

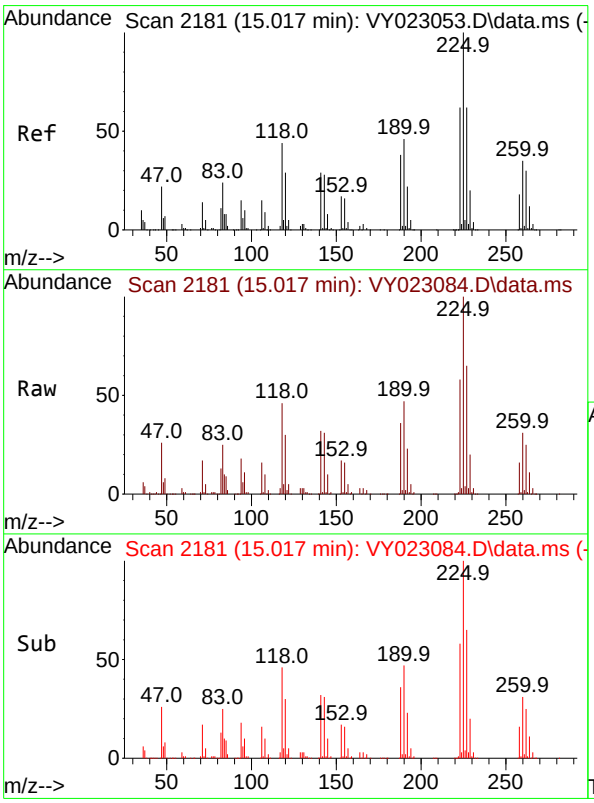
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.0 | 46.8 | 140.4 |
| 145 | 29.5 | 14.4 | 43.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

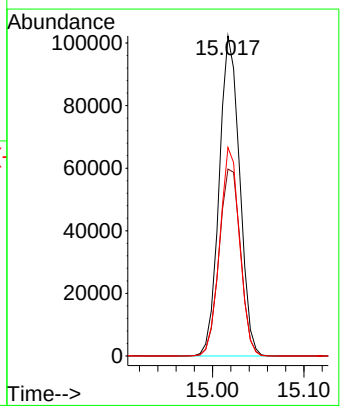
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

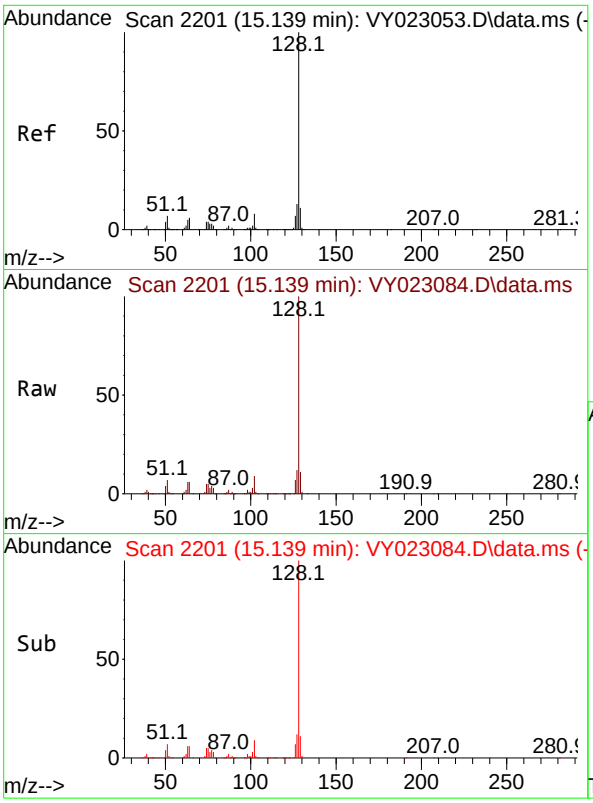



#94
Hexachlorobutadiene
Concen: 54.099 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:225 Resp: 158788

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 61.2 | 31.3 | 93.8 |
| 227 | 63.5 | 31.5 | 94.5 |

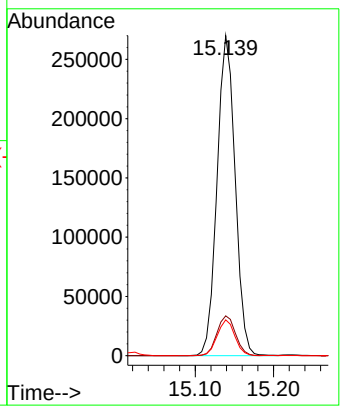





#95
Naphthalene
Concen: 50.929 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:128 Resp: 43377

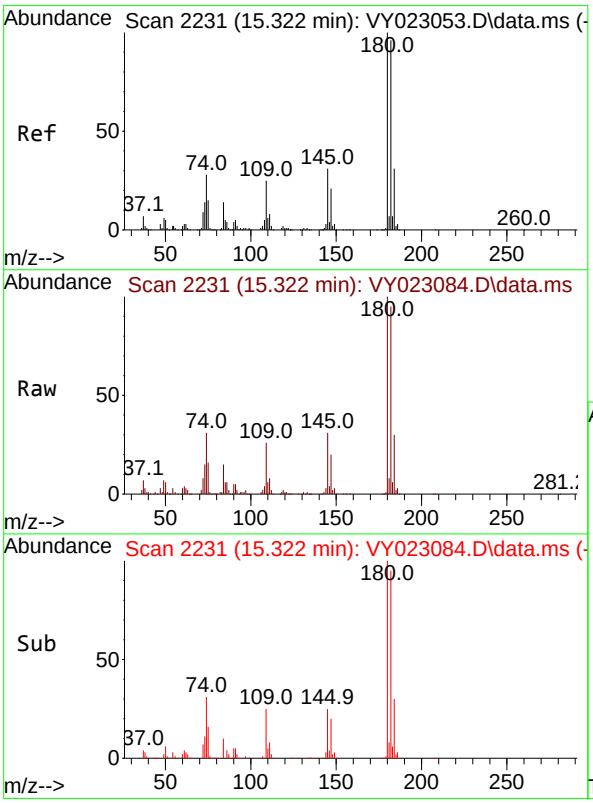
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.8 | 10.4 | 15.6 |
| 129 | 11.0 | 9.0 | 13.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

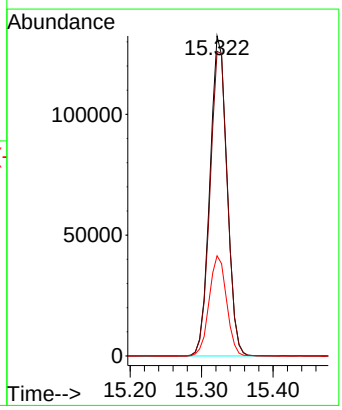
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025




#96
1,2,3-Trichlorobenzene
Concen: 51.145 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:180 Resp: 220135

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.5 | 47.9 | 143.7 |
| 145 | 31.7 | 15.9 | 47.7 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023084.D
Acq On : 14 Aug 2025 10:17
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Aug 14 14:46:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 76 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.408 | 0.368 | 9.8 | 80 | 0.00 |
| 3 | P | Chloromethane | 0.661 | 0.738 | -11.6 | 93 | 0.00 |
| 4 | C | Vinyl Chloride | 0.817 | 0.946 | -15.8# | 94 | 0.00 |
| 5 | T | Bromomethane | 0.610 | 0.701 | -14.9 | 99 | 0.00 |
| 6 | T | Chloroethane | 0.543 | 0.665 | -22.5 | 98 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.994 | 1.067 | -7.3 | 87 | 0.00 |
| 8 | T | Diethyl Ether | 0.263 | 0.264 | -0.4 | 80 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.490 | 0.530 | -8.2 | 87 | 0.00 |
| 10 | T | Methyl Iodide | 0.529 | 0.652 | -23.3 | 91 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.033 | 0.028 | 15.2 | 68 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.482 | 0.512 | -6.2# | 84 | 0.00 |
| 13 | T | Acrolein | 0.048 | 0.035 | 27.1# | 59 | 0.00 |
| 14 | T | Allyl chloride | 0.709 | 0.753 | -6.2 | 84 | 0.00 |
| 15 | T | Acrylonitrile | 0.107 | 0.110 | -2.8 | 79 | 0.00 |
| 16 | T | Acetone | 0.103 | 0.106 | -2.9 | 78 | 0.00 |
| 17 | T | Carbon Disulfide | 1.571 | 1.688 | -7.4 | 86 | 0.00 |
| 18 | T | Methyl Acetate | 0.307 | 0.311 | -1.3 | 74 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.249 | 1.278 | -2.3 | 79 | 0.00 |
| 20 | T | Methylene Chloride | 0.620 | 0.608 | 1.9 | 91 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.541 | 0.599 | -10.7 | 87 | 0.00 |
| 22 | T | Diisopropyl ether | 1.541 | 1.707 | -10.8 | 86 | 0.00 |
| 23 | T | Vinyl Acetate | 0.852 | 0.905 | -6.2 | 82 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 0.942 | 1.065 | -13.1 | 88 | 0.00 |
| 25 | T | 2-Butanone | 0.140 | 0.142 | -1.4 | 76 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.813 | 0.898 | -10.5 | 87 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.626 | 0.688 | -9.9 | 86 | 0.00 |
| 28 | T | Bromochloromethane | 0.374 | 0.440 | -17.6 | 92 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.087 | 0.086 | 1.1 | 75 | 0.00 |
| 30 | C | Chloroform | 0.971 | 1.102 | -13.5# | 89 | 0.00 |
| 31 | T | Cyclohexane | 0.888 | 0.899 | -1.2 | 84 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.862 | 0.962 | -11.6 | 88 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.477 | 0.540 | -13.2 | 89 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 76 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.299 | 0.344 | -15.1 | 89 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.445 | 0.501 | -12.6 | 87 | 0.00 |
| 37 | T | Ethyl Acetate | 0.187 | 0.197 | -5.3 | 79 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.483 | 0.543 | -12.4 | 88 | 0.00 |
| 39 | T | Methylcyclohexane | 0.586 | 0.637 | -8.7 | 85 | 0.00 |
| 40 | TM | Benzene | 1.370 | 1.568 | -14.5 | 89 | 0.00 |
| 41 | T | Methacrylonitrile | 0.108 | 0.093 | 13.9 | 64 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.356 | 0.398 | -11.8 | 87 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.378 | 0.383 | -1.3 | 78 | 0.00 |
| 44 | TM | Trichloroethene | 0.354 | 0.397 | -12.1 | 88 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.315 | 0.366 | -16.2# | 90 | 0.00 |
| 46 | T | Dibromomethane | 0.181 | 0.205 | -13.3 | 87 | 0.00 |
| 47 | T | Bromodichloromethane | 0.466 | 0.532 | -14.2 | 88 | 0.00 |
| 48 | T | Methyl methacrylate | 0.181 | 0.190 | -5.0 | 77 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023084.D
Acq On : 14 Aug 2025 10:17
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Aug 14 14:46:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 0.002 | 0.002 | 0.0 | 78 | 0.00 |
| 50 | S | Toluene-d8 | 1.169 | 1.352 | -15.7 | 89 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.195 | 0.203 | -4.1 | 77 | 0.00 |
| 52 | CM | Toluene | 0.870 | 1.000 | -14.9# | 88 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.422 | 0.465 | -10.2 | 84 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.499 | 0.557 | -11.6 | 85 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.242 | 0.267 | -10.3 | 85 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.310 | 0.330 | -6.5 | 78 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.411 | 0.452 | -10.0 | 84 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.146 | 0.164 | -12.3 | 80 | 0.00 |
| 59 | T | 2-Hexanone | 0.133 | 0.137 | -3.0 | 76 | 0.00 |
| 60 | T | Dibromochloromethane | 0.320 | 0.358 | -11.9 | 85 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.228 | 0.247 | -8.3 | 83 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.376 | 0.427 | -13.6 | 87 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 77 | 0.00 |
| 64 | T | Tetrachloroethene | 0.446 | 0.495 | -11.0 | 88 | 0.00 |
| 65 | PM | Chlorobenzene | 1.079 | 1.192 | -10.5 | 87 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.366 | 0.407 | -11.2 | 87 | 0.00 |
| 67 | C | Ethyl Benzene | 1.856 | 2.084 | -12.3# | 87 | 0.00 |
| 68 | T | m/p-Xylenes | 0.725 | 0.824 | -13.7 | 89 | 0.00 |
| 69 | T | o-Xylene | 0.679 | 0.765 | -12.7 | 86 | 0.00 |
| 70 | T | Styrene | 1.110 | 1.298 | -16.9 | 89 | 0.00 |
| 71 | P | Bromoform | 0.214 | 0.221 | -3.3 | 80 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 77 | 0.00 |
| 73 | T | Isopropylbenzene | 3.529 | 3.976 | -12.7 | 87 | 0.00 |
| 74 | T | N-amyl acetate | 0.748 | 0.774 | -3.5 | 77 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.603 | 0.622 | -3.2 | 82 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.483 | 0.435 | 9.9 | 62 | 0.00 |
| 77 | T | Bromobenzene | 0.842 | 0.913 | -8.4 | 85 | 0.00 |
| 78 | T | n-propylbenzene | 4.201 | 4.868 | -15.9 | 89 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.407 | 2.685 | -11.5 | 87 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.852 | 3.275 | -14.8 | 88 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.199 | 0.196 | 1.5 | 76 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.497 | 2.806 | -12.4 | 87 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.576 | 2.862 | -11.1 | 85 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.839 | 3.297 | -16.1 | 89 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.784 | 4.352 | -15.0 | 89 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.141 | 3.663 | -16.6 | 89 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.660 | 1.864 | -12.3 | 89 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.647 | 1.816 | -10.3 | 87 | 0.00 |
| 89 | T | n-Butylbenzene | 2.885 | 3.341 | -15.8 | 88 | 0.00 |
| 90 | T | Hexachloroethane | 0.643 | 0.726 | -12.9 | 89 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.456 | 1.620 | -11.3 | 88 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.094 | 0.097 | -3.2 | 79 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.861 | 0.892 | -3.6 | 81 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.506 | 0.547 | -8.1 | 86 | 0.00 |
| 95 | T | Naphthalene | 1.468 | 1.496 | -1.9 | 77 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023084.D
Acq On : 14 Aug 2025 10:17
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Aug 14 14:46:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 0.742 | 0.759 | -2.3 | 81 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023084.D
Acq On : 14 Aug 2025 10:17
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Aug 14 14:46:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 76 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 45.046 | 9.9 | 80 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 55.814 | -11.6 | 93 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 57.916 | -15.8# | 94 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 57.438 | -14.9 | 99 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 61.186 | -22.4 | 98 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 53.672 | -7.3 | 87 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 50.120 | -0.2 | 80 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 54.071 | -8.1 | 87 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 61.652 | -23.3 | 91 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 216.906 | 13.2 | 68 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 53.125 | -6.3# | 84 | 0.00 |
| 13 | T | Acrolein | 250.000 | 180.505 | 27.8# | 59 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 53.120 | -6.2 | 84 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 257.151 | -2.9 | 79 | 0.00 |
| 16 | T | Acetone | 250.000 | 256.214 | -2.5 | 78 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 53.714 | -7.4 | 86 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 50.608 | -1.2 | 74 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 51.188 | -2.4 | 79 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 57.006 | -14.0 | 91 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 55.278 | -10.6 | 87 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 55.396 | -10.8 | 86 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 265.520 | -6.2 | 82 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 56.544 | -13.1 | 88 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 252.314 | -0.9 | 76 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 55.247 | -10.5 | 87 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 54.962 | -9.9 | 86 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 58.812 | -17.6 | 92 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 246.358 | 1.5 | 75 | 0.00 |
| 30 | C | Chloroform | 50.000 | 56.703 | -13.4# | 89 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 50.659 | -1.3 | 84 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 55.782 | -11.6 | 88 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 56.681 | -13.4 | 89 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 76 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 57.573 | -15.1 | 89 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 56.356 | -12.7 | 87 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 52.667 | -5.3 | 79 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 56.181 | -12.4 | 88 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 54.417 | -8.8 | 85 | 0.00 |
| 40 | TM | Benzene | 50.000 | 57.200 | -14.4 | 89 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 43.117 | 13.8 | 64 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 55.883 | -11.8 | 87 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 50.705 | -1.4 | 78 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 56.001 | -12.0 | 88 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 58.028 | -16.1# | 90 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 56.649 | -13.3 | 87 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 57.122 | -14.2 | 88 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 52.585 | -5.2 | 77 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023084.D
Acq On : 14 Aug 2025 10:17
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Aug 14 14:46:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 1000.000 | 1033.218 | -3.3 | 78 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 57.835 | -15.7 | 89 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 260.657 | -4.3 | 77 | 0.00 |
| 52 | CM | Toluene | 50.000 | 57.441 | -14.9# | 88 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 55.165 | -10.3 | 84 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 55.890 | -11.8 | 85 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 55.184 | -10.4 | 85 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 53.193 | -6.4 | 78 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 55.040 | -10.1 | 84 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 280.099 | -12.0 | 80 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 257.924 | -3.2 | 76 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 55.947 | -11.9 | 85 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 54.265 | -8.5 | 83 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 56.822 | -13.6 | 87 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 77 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 55.420 | -10.8 | 88 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 55.261 | -10.5 | 87 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 55.623 | -11.2 | 87 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 56.146 | -12.3# | 87 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 113.678 | -13.7 | 89 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 56.368 | -12.7 | 86 | 0.00 |
| 70 | T | Styrene | 50.000 | 58.442 | -16.9 | 89 | 0.00 |
| 71 | P | Bromoform | 50.000 | 51.645 | -3.3 | 80 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 77 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 56.330 | -12.7 | 87 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 51.690 | -3.4 | 77 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 51.630 | -3.3 | 82 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 45.053 | 9.9 | 62 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 54.218 | -8.4 | 85 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 57.928 | -15.9 | 89 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 55.767 | -11.5 | 87 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 57.421 | -14.8 | 88 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 49.259 | 1.5 | 76 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 56.188 | -12.4 | 87 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 55.552 | -11.1 | 85 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 58.063 | -16.1 | 89 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 57.500 | -15.0 | 89 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 58.310 | -16.6 | 89 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 56.125 | -12.3 | 89 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 55.125 | -10.3 | 87 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 57.904 | -15.8 | 88 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 56.482 | -13.0 | 89 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 55.616 | -11.2 | 88 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 51.839 | -3.7 | 79 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 51.769 | -3.5 | 81 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 54.099 | -8.2 | 86 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 50.929 | -1.9 | 77 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023084.D
Acq On : 14 Aug 2025 10:17
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Aug 14 14:46:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 51.145 | -2.3 | 81 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance
Contract: FIRS02
Lab Code: ACE
SDG No.: Q2819
Instrument ID: MSVOA_Y
Calibration Date/Time: 08/14/2025 20:38
Lab File ID: VY023109.D
Init. Calib. Date(s): 08/12/2025 08/12/2025
Heated Purge: (Y/N) Y
Init. Calib. Time(s): 14:54 16:47
GC Column: RXI-624 ID: 0.25 (mm)

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.408 | 0.306 | | -25 | 50 |
| Chloromethane | 0.661 | 0.669 | 0.1 | 1.21 | 50 |
| Vinyl Chloride | 0.817 | 0.871 | | 6.61 | 50 |
| Bromomethane | 0.610 | 0.684 | | 12.13 | 50 |
| Chloroethane | 0.543 | 0.616 | | 13.44 | 50 |
| Trichlorofluoromethane | 0.994 | 0.944 | | -5.03 | 50 |
| 1,1,2-Trichlorotrifluoroethane | 0.490 | 0.445 | | -9.18 | 50 |
| 1,1-Dichloroethene | 0.482 | 0.449 | | -6.85 | 50 |
| Acetone | 0.103 | 0.075 | | -27.18 | 50 |
| Carbon Disulfide | 1.571 | 1.453 | | -7.51 | 50 |
| Methyl tert-butyl Ether | 1.249 | 1.233 | | -1.28 | 50 |
| Methyl Acetate | 0.307 | 0.317 | | 3.26 | 50 |
| Methylene Chloride | 0.620 | 0.545 | | -12.1 | 50 |
| trans-1,2-Dichloroethene | 0.541 | 0.528 | | -2.4 | 50 |
| 1,1-Dichloroethane | 0.942 | 0.954 | 0.1 | 1.27 | 50 |
| Cyclohexane | 0.888 | 0.781 | | -12.05 | 50 |
| 2-Butanone | 0.140 | 0.124 | | -11.43 | 50 |
| Carbon Tetrachloride | 0.483 | 0.455 | | -5.8 | 50 |
| cis-1,2-Dichloroethene | 0.626 | 0.631 | | 0.8 | 50 |
| Bromochloromethane | 0.374 | 0.376 | | 0.54 | 50 |
| Chloroform | 0.971 | 1.010 | | 4.02 | 50 |
| 1,1,1-Trichloroethane | 0.862 | 0.864 | | 0.23 | 50 |
| Methylcyclohexane | 0.586 | 0.539 | | -8.02 | 50 |
| Benzene | 1.370 | 1.362 | | -0.58 | 50 |
| 1,2-Dichloroethane | 0.356 | 0.355 | | -0.28 | 50 |
| Trichloroethene | 0.354 | 0.336 | | -5.09 | 50 |
| 1,2-Dichloropropane | 0.315 | 0.317 | | 0.63 | 50 |
| Bromodichloromethane | 0.466 | 0.478 | | 2.58 | 50 |
| 4-Methyl-2-Pentanone | 0.195 | 0.187 | | -4.1 | 50 |
| Toluene | 0.870 | 0.879 | | 1.03 | 50 |
| t-1,3-Dichloropropene | 0.422 | 0.405 | | -4.03 | 50 |
| cis-1,3-Dichloropropene | 0.499 | 0.481 | | -3.61 | 50 |
| 1,1,2-Trichloroethane | 0.242 | 0.238 | | -1.65 | 50 |
| 2-Hexanone | 0.133 | 0.124 | | -6.77 | 50 |
| Dibromochloromethane | 0.320 | 0.319 | | -0.31 | 50 |
| 1,2-Dibromoethane | 0.228 | 0.223 | | -2.19 | 50 |
| Tetrachloroethene | 0.446 | 0.421 | | -5.61 | 50 |
| Chlorobenzene | 1.079 | 1.043 | 0.3 | -3.34 | 50 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

## VOLATILE CONTINUING CALIBRATION CHECK

| | | | |
|---|---|---|---|
| Lab Name: | Alliance | Contract: | FIRS02 |
| Lab Code: | ACE | SDG No.: | Q2819 |
| Instrument ID: | MSVOA_Y | Calibration Date/Time: | 08/14/2025 20:38 |
| Lab File ID: | VY023109.D | Init. Calib. Date(s): | 08/12/2025 08/12/2025 |
| Heated Purge: (Y/N) | Y | Init. Calib. Time(s): | 14:54 16:47 |

GC Column: RXI-624 ID: 0.25 (mm)

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Ethyl Benzene | 1.856 | 1.811 | | -2.42 | 50 |
| m/p-Xylenes | 0.725 | 0.724 | | -0.14 | 50 |
| o-Xylene | 0.679 | 0.686 | | 1.03 | 50 |
| Styrene | 1.110 | 1.150 | | 3.6 | 50 |
| Bromoform | 0.214 | 0.202 | 0.1 | -5.61 | 50 |
| Isopropylbenzene | 3.529 | 3.313 | | -6.12 | 50 |
| 1,1,2,2-Tetrachloroethane | 0.603 | 0.552 | 0.3 | -8.46 | 50 |
| 1,3-Dichlorobenzene | 1.660 | 1.592 | | -4.1 | 50 |
| 1,4-Dichlorobenzene | 1.647 | 1.544 | | -6.25 | 50 |
| 1,2-Dichlorobenzene | 1.456 | 1.373 | | -5.7 | 50 |
| 1,2-Dibromo-3-Chloropropane | 0.094 | 0.085 | | -9.57 | 50 |
| 1,2,4-Trichlorobenzene | 0.861 | 0.771 | | -10.45 | 50 |
| 1,2,3-Trichlorobenzene | 0.742 | 0.666 | | -10.24 | 50 |
| 1,2-Dichloroethane-d4 | 0.477 | 0.514 | | 7.76 | 50 |
| Dibromofluoromethane | 0.299 | 0.303 | | 1.34 | 50 |
| Toluene-d8 | 1.169 | 1.191 | | 1.88 | 50 |
| 4-Bromofluorobenzene | 0.376 | 0.388 | | 3.19 | 50 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023109.D
Acq On : 14 Aug 2025 20:38
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Aug 18 01:32:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 416366 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 692312 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 629047 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 327747 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 213894 | 53.901 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 107.800% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 209862 | 50.660 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 101.320% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 824760 | 50.964 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 101.920% | | | |
| 62) 4-Bromofluorobenzene | 12.402 | 95 | 268864 | 51.660 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 103.320% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 127230 | 37.436 | ug/l | 98 |
| 3) Chloromethane | 2.068 | 50 | 278602 | 50.612 | ug/l | 100 |
| 4) Vinyl Chloride | 2.202 | 62 | 362671 | 53.299 | ug/l | 100 |
| 5) Bromomethane | 2.592 | 94 | 284864 | 56.056 | ug/l | 100 |
| 6) Chloroethane | 2.733 | 64 | 256493 | 56.698 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.050 | 101 | 393227 | 47.526 | ug/l | 98 |
| 8) Diethyl Ether | 3.458 | 74 | 102502 | 46.826 | ug/l | 98 |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 185323 | 45.401 | ug/l | 99 |
| 10) Methyl Iodide | 4.001 | 142 | 230343 | 52.294 | ug/l | 98 |
| 11) Tert butyl alcohol | 4.866 | 59 | 59656 | 219.404 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 186960 | 46.597 | ug/l | 97 |
| 13) Acrolein | 3.653 | 56 | 59794 | 150.160 | ug/l | 99 |
| 14) Allyl chloride | 4.385 | 41 | 270891 | 45.884 | ug/l | 97 |
| 15) Acrylonitrile | 5.055 | 53 | 214746 | 241.303 | ug/l | 99 |
| 16) Acetone | 3.873 | 43 | 156746 | 182.326 | ug/l | 98 |
| 17) Carbon Disulfide | 4.104 | 76 | 605160 | 46.257 | ug/l | 99 |
| 18) Methyl Acetate | 4.385 | 43 | 132078 | 51.627 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 513333 | 49.373 | ug/l | 100 |
| 20) Methylene Chloride | 4.616 | 84 | 226871 | 50.830 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 219760 | 48.739 | ug/l | 100 |
| 22) Diisopropyl ether | 6.019 | 45 | 647978 | 50.509 | ug/l | 98 |
| 23) Vinyl Acetate | 5.958 | 43 | 1688350 | 238.003 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 397112 | 50.629 | ug/l | 99 |
| 25) 2-Butanone | 6.896 | 43 | 257717 | 220.416 | ug/l | 98 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 282620 | 41.758 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 262868 | 50.429 | ug/l | 99 |
| 28) Bromochloromethane | 7.244 | 49 | 156731 | 50.366 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.262 | 42 | 170771 | 235.626 | ug/l | 99 |
| 30) Chloroform | 7.421 | 83 | 420476 | 51.980 | ug/l | 96 |
| 31) Cyclohexane | 7.701 | 56 | 325108 | 43.985 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 359591 | 50.099 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 290479 | 47.183 | ug/l | 99 |
| 37) Ethyl Acetate | 6.982 | 43 | 118629 | 45.871 | ug/l | 98 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 315347 | 47.160 | ug/l | 97 |
| 39) Methylcyclohexane | 9.109 | 83 | 372844 | 45.989 | ug/l | 98 |
| 40) Benzene | 8.079 | 78 | 942603 | 49.676 | ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023109.D
Acq On : 14 Aug 2025 20:38
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Aug 18 01:32:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.220 | 41 | 63879 | 42.799 | ug/l | 93 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 245917 | 49.831 | ug/l | 99 |
| 43) Isopropyl Acetate | 8.195 | 43 | 245206 | 46.911 | ug/l | 100 |
| 44) Trichloroethene | 8.866 | 130 | 232571 | 47.429 | ug/l | 99 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 219128 | 50.190 | ug/l | 98 |
| 46) Dibromomethane | 9.231 | 93 | 125840 | 50.217 | ug/l | 97 |
| 47) Bromodichloromethane | 9.420 | 83 | 330836 | 51.308 | ug/l | 98 |
| 48) Methyl methacrylate | 9.219 | 41 | 116562 | 46.602 | ug/l | 95 |
| 49) 1,4-Dioxane | 9.225 | 88 | 28202 | 959.813 | ug/l | 93 |
| 51) 4-Methyl-2-Pentanone | 9.993 | 43 | 648196 | 240.407 | ug/l | 100 |
| 52) Toluene | 10.170 | 92 | 608495 | 50.491 | ug/l | 100 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 280629 | 48.061 | ug/l | 99 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 333217 | 48.260 | ug/l | 98 |
| 55) 1,1,2-Trichloroethane | 10.567 | 97 | 164684 | 49.113 | ug/l | 97 |
| 56) Ethyl methacrylate | 10.438 | 69 | 211730 | 49.346 | ug/l | 98 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 280123 | 49.259 | ug/l | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 522597 | 258.207 | ug/l | 100 |
| 59) 2-Hexanone | 10.756 | 43 | 429008 | 233.670 | ug/l | 99 |
| 60) Dibromochloromethane | 10.908 | 129 | 220549 | 49.847 | ug/l | 99 |
| 61) 1,2-Dibromoethane | 11.012 | 107 | 154512 | 49.026 | ug/l | 100 |
| 64) Tetrachloroethene | 10.646 | 164 | 264997 | 47.178 | ug/l | 98 |
| 65) Chlorobenzene | 11.438 | 112 | 655836 | 48.335 | ug/l | 96 |
| 66) 1,1,1,2-Tetrachloroethane | 11.511 | 131 | 226496 | 49.184 | ug/l | 99 |
| 67) Ethyl Benzene | 11.518 | 91 | 1138907 | 48.775 | ug/l | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 910415 | 99.829 | ug/l | 99 |
| 69) o-Xylene | 11.950 | 106 | 431382 | 50.504 | ug/l | 99 |
| 70) Styrene | 11.963 | 104 | 723332 | 51.783 | ug/l | 99 |
| 71) Bromoform | 12.127 | 173 | 127183 | 47.255 | ug/l | 98 |
| 73) Isopropylbenzene | 12.249 | 105 | 1085768 | 46.938 | ug/l | 100 |
| 74) N-amyl acetate | 12.066 | 43 | 218818 | 44.606 | ug/l | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.499 | 83 | 180905 | 45.802 | ug/l | 99 |
| 76) 1,2,3-Trichloropropane | 12.548 | 75 | 172472m | 54.526 | ug/l | |
| 77) Bromobenzene | 12.530 | 156 | 254766 | 46.165 | ug/l | 98 |
| 78) n-propylbenzene | 12.591 | 91 | 1321560 | 47.987 | ug/l | 100 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 749983 | 47.529 | ug/l | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.731 | 105 | 901239 | 48.207 | ug/l | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.298 | 75 | 51968 | 39.770 | ug/l | 94 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 794254 | 48.521 | ug/l | 99 |
| 83) tert-Butylbenzene | 12.993 | 119 | 794810 | 47.072 | ug/l | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.036 | 105 | 915823 | 49.211 | ug/l | 100 |
| 85) sec-Butylbenzene | 13.170 | 105 | 1185899 | 47.812 | ug/l | 100 |
| 86) p-Isopropyltoluene | 13.286 | 119 | 997638 | 48.457 | ug/l | 99 |
| 87) 1,3-Dichlorobenzene | 13.279 | 146 | 521768 | 47.944 | ug/l | 99 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 506066 | 46.877 | ug/l | 100 |
| 89) n-Butylbenzene | 13.615 | 91 | 922027 | 48.761 | ug/l | 98 |
| 90) Hexachloroethane | 13.877 | 117 | 202066 | 47.944 | ug/l | 97 |
| 91) 1,2-Dichlorobenzene | 13.651 | 146 | 449904 | 47.139 | ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.267 | 75 | 27986 | 45.509 | ug/l | 94 |
| 93) 1,2,4-Trichlorobenzene | 14.913 | 180 | 252540 | 44.744 | ug/l | 98 |
| 94) Hexachlorobutadiene | 15.017 | 225 | 143621 | 43.304 | ug/l | 99 |
| 95) Naphthalene | 15.139 | 128 | 443360 | 46.067 | ug/l | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.322 | 180 | 218352 | 44.896 | ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023109.D
Acq On : 14 Aug 2025 20:38
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Aug 18 01:32:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023109.D
Acq On : 14 Aug 2025 20:38
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Aug 18 01:32:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

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Reviewed By :Semsettin Yesilyurt 08/19/2025
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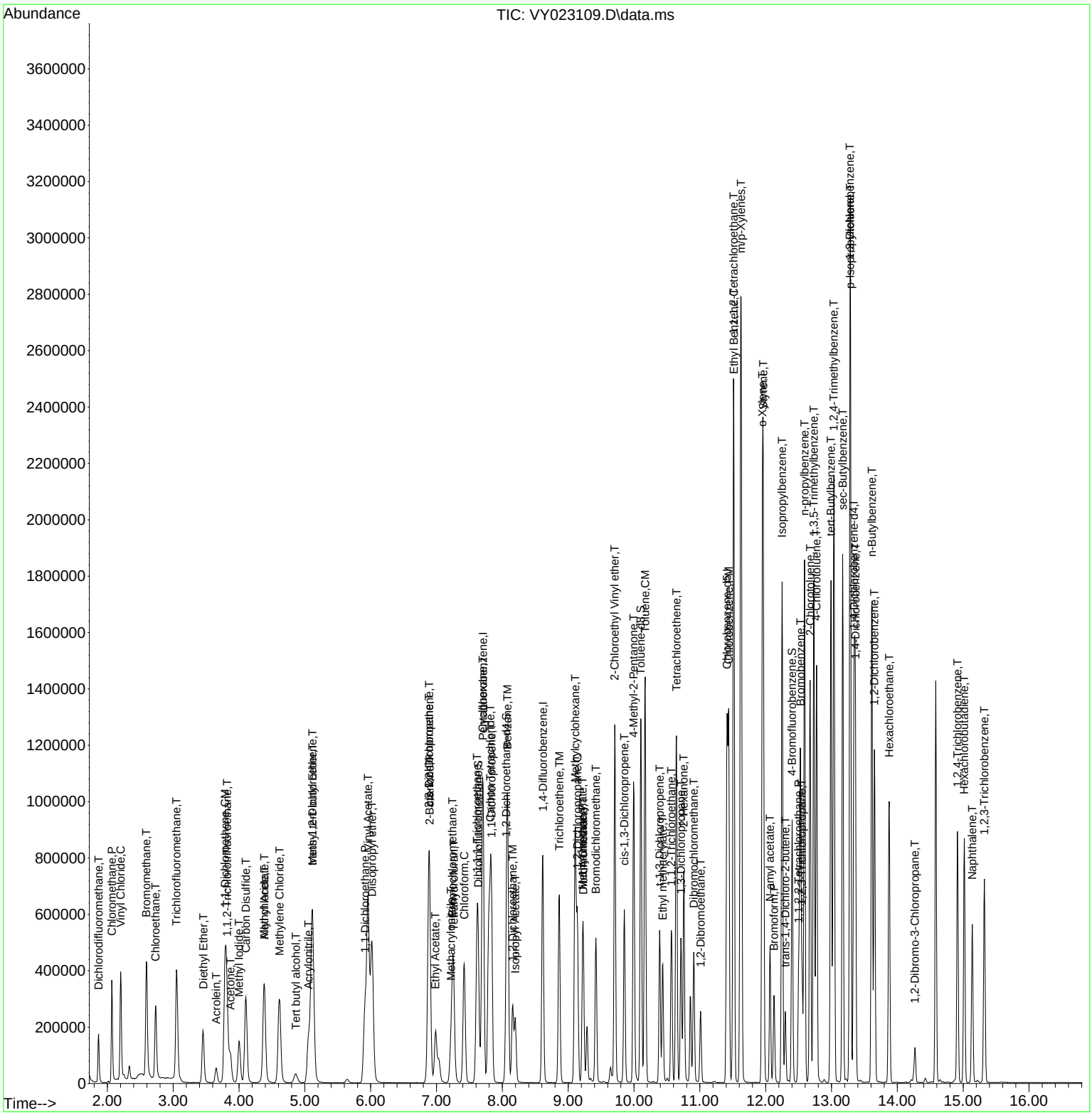
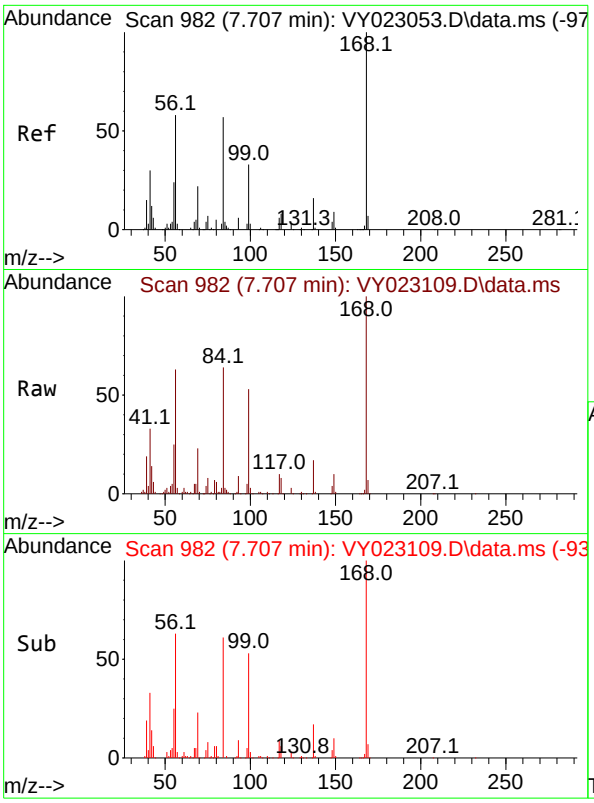
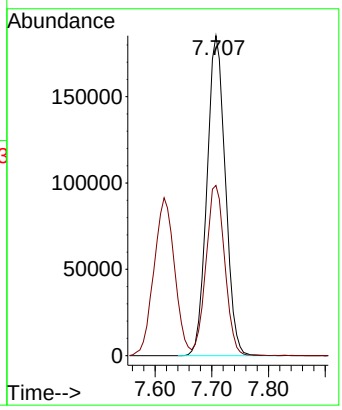





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:168 Resp: 41636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 53.2 | 42.8 | 64.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

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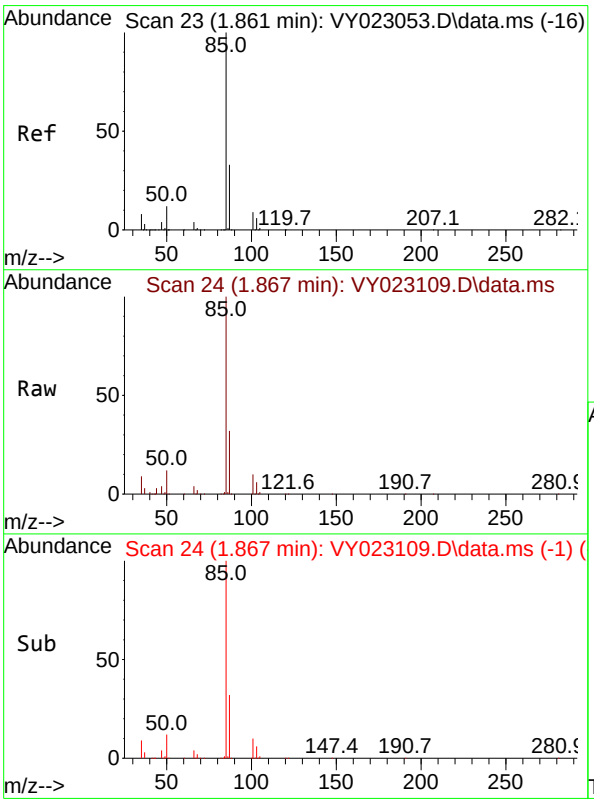
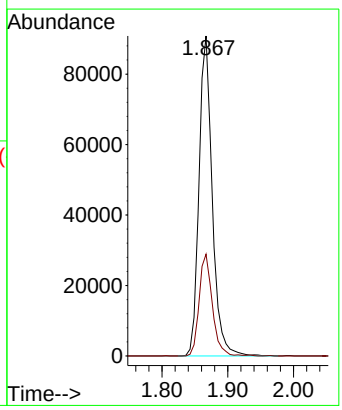
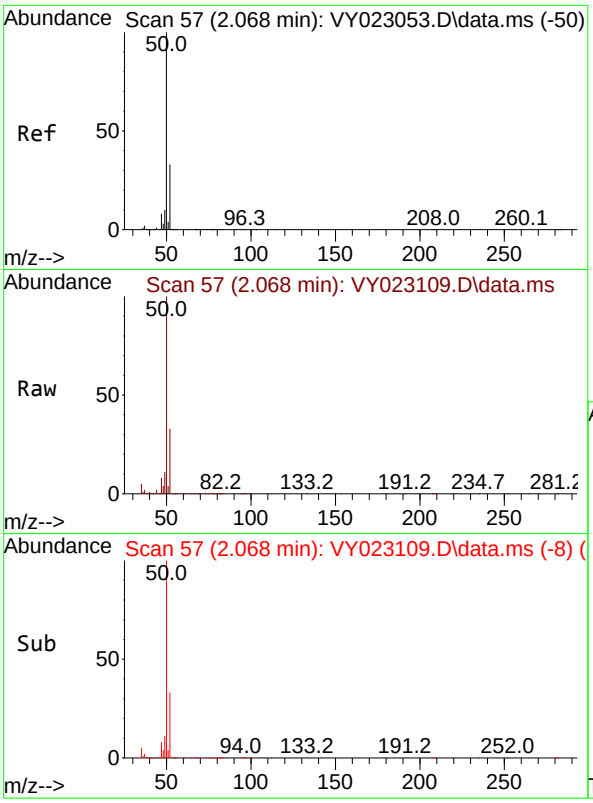



#2
Dichlorodifluoromethane
Concen: 37.436 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 85 Resp: 127230

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.8 | 16.6 | 49.8 |






#3
Chloromethane
Concen: 50.612 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 50 Resp: 27860

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.3 | 26.7 | 40.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

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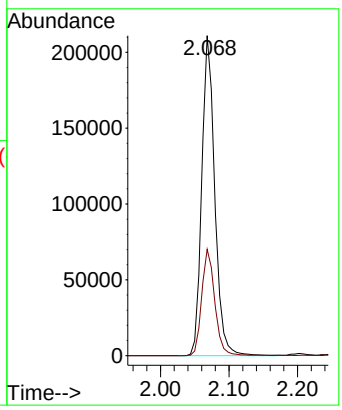
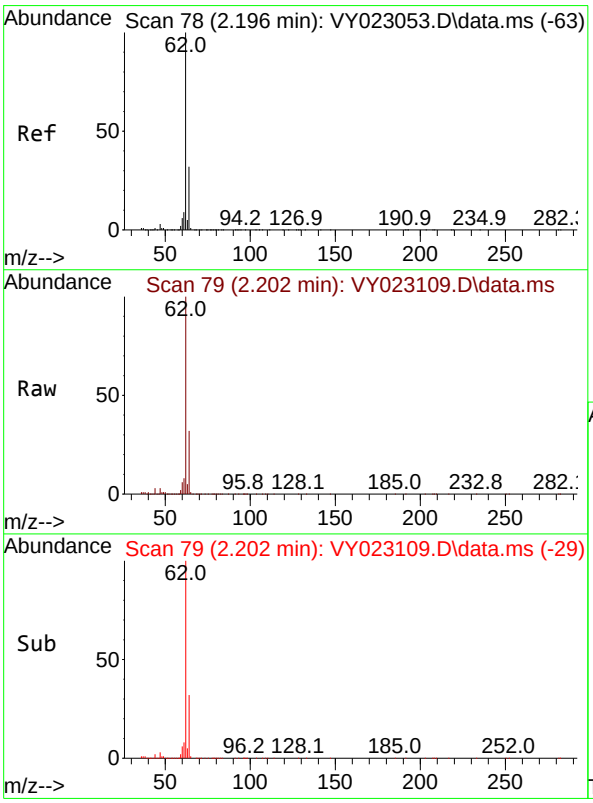
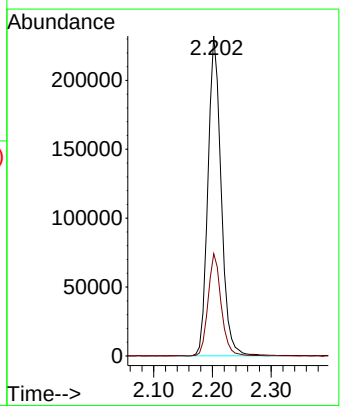


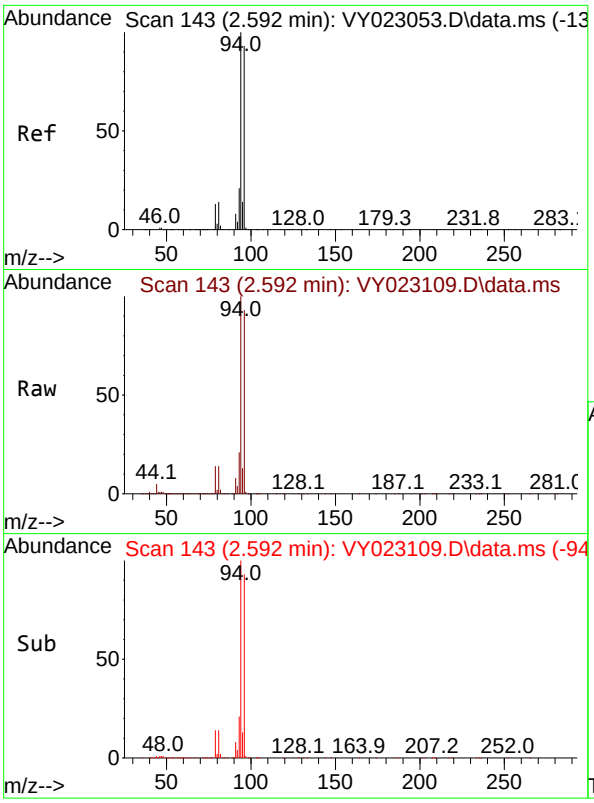




#4
Vinyl Chloride
Concen: 53.299 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 62 Resp: 362671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.9 | 25.4 | 38.0 |






#5
Bromomethane
Concen: 56.056 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 94 Resp: 28486

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 93.2 | 74.6 | 112.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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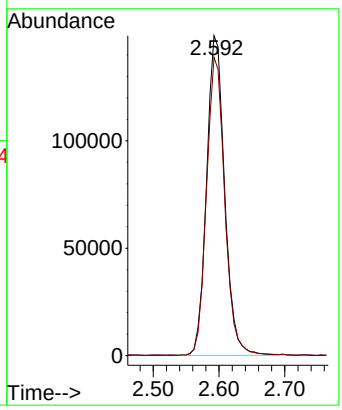
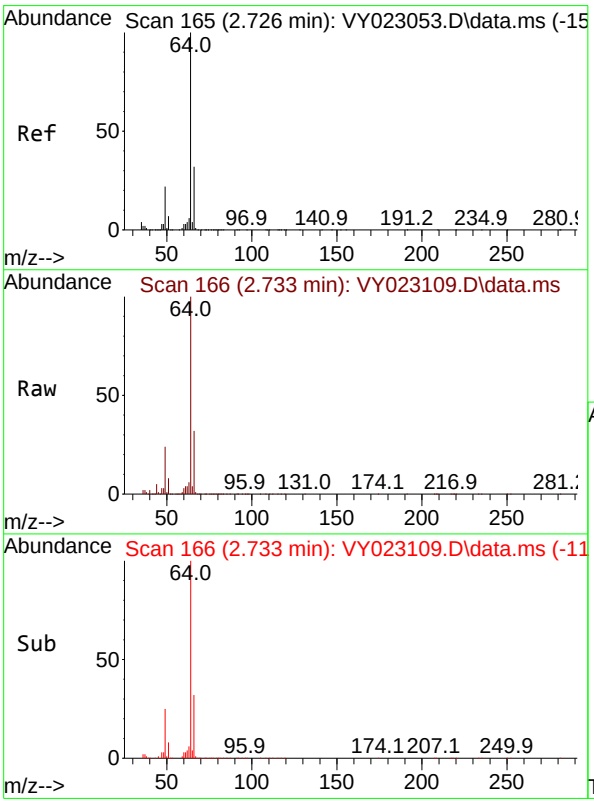
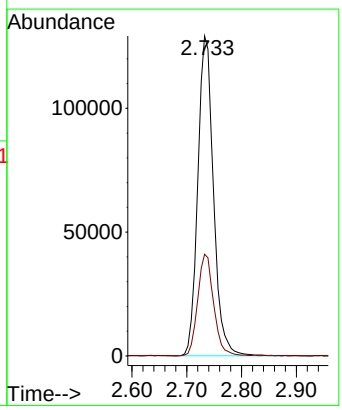


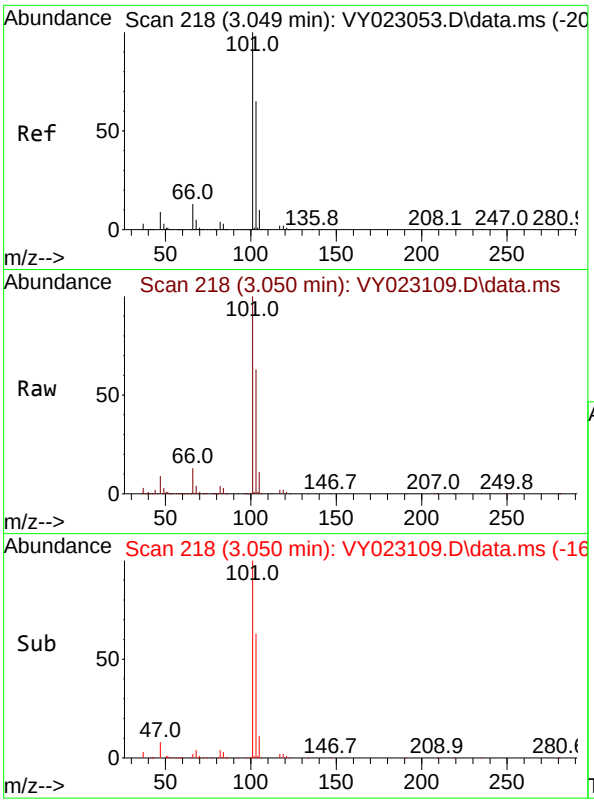




#6
Chloroethane
Concen: 56.698 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 64 Resp: 256493

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.8 | 25.8 | 38.6 |

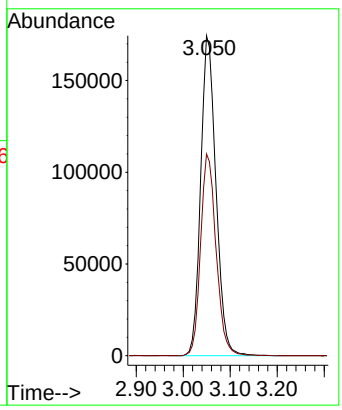





#7
Trichlorofluoromethane
Concen: 47.526 ug/l
RT: 3.050 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:101 Resp: 39322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.0 | 51.9 | 77.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

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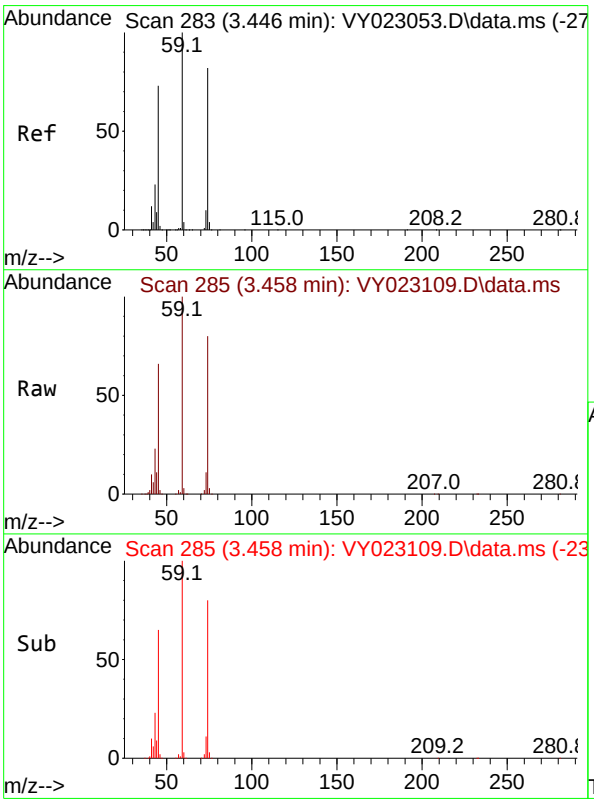
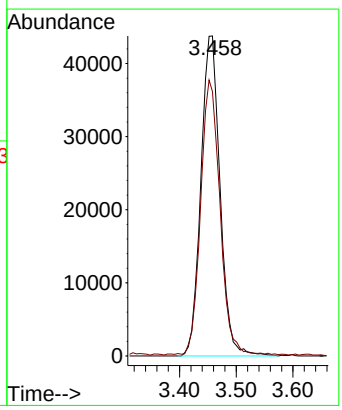
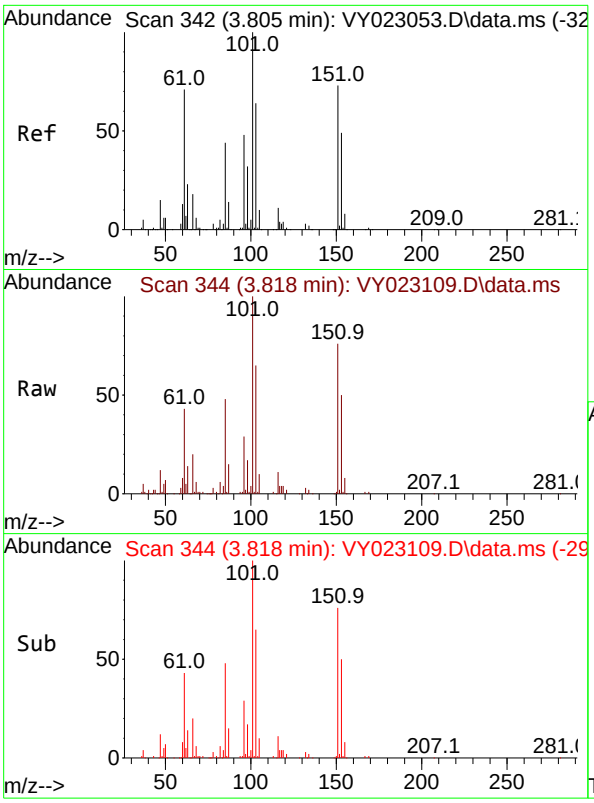



#8
Diethyl Ether
Concen: 46.826 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.012 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 74 Resp: 102502

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 86.7 | 44.4 | 133.2 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 45.401 ug/l
RT: 3.818 min Scan# 3
Delta R.T. 0.012 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

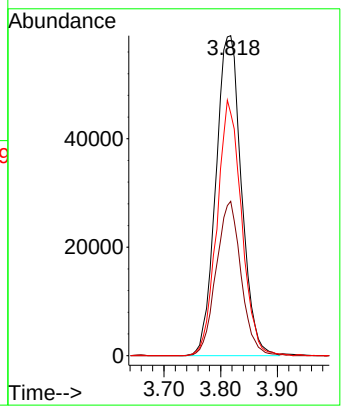
Tgt Ion:101 Resp: 18532

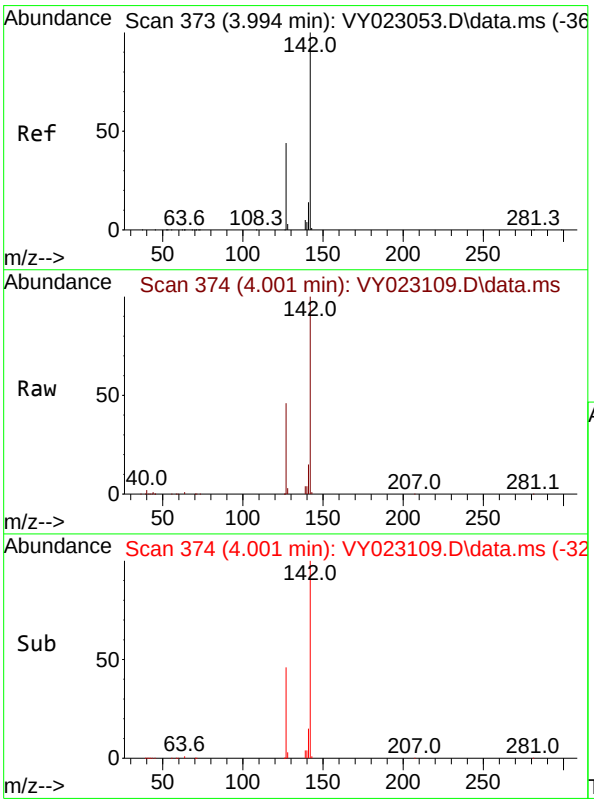
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 47.0 | 36.3 | 54.5 |
| 151 | 76.6 | 61.5 | 92.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

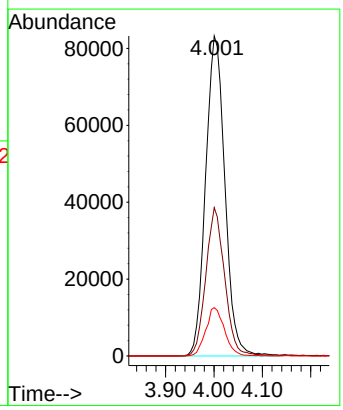


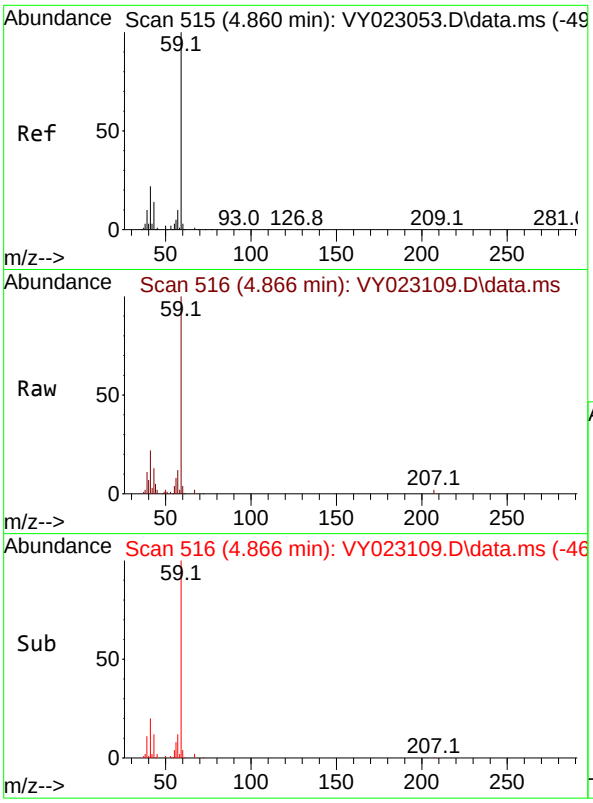




#10
Methyl Iodide
Concen: 52.294 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:142 Resp: 230343

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 45.3 | 34.9 | 52.3 |
| 141 | 14.7 | 11.3 | 16.9 |

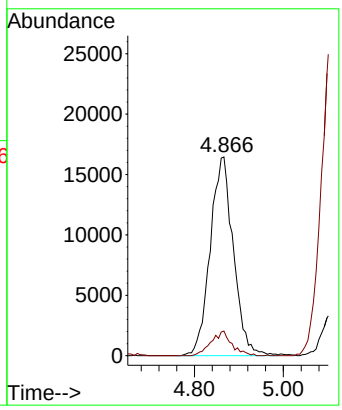





#11
Tert butyl alcohol
Concen: 219.404 ug/l
RT: 4.866 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 59 Resp: 5965

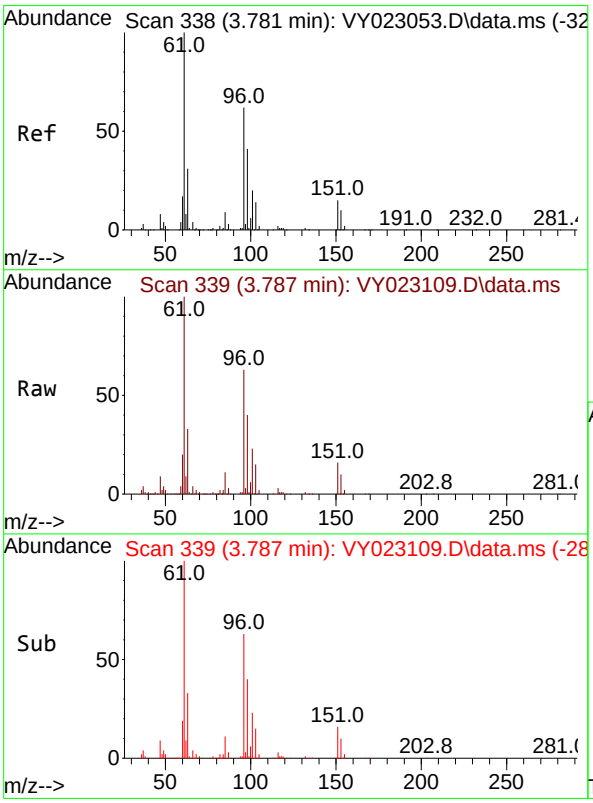
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 11.0 | 8.6 | 13.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

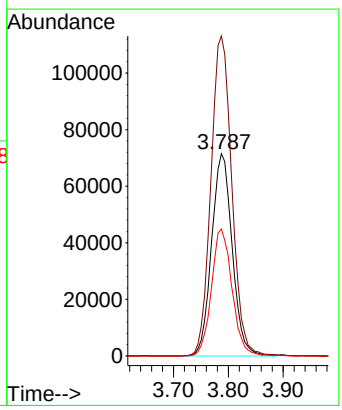
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

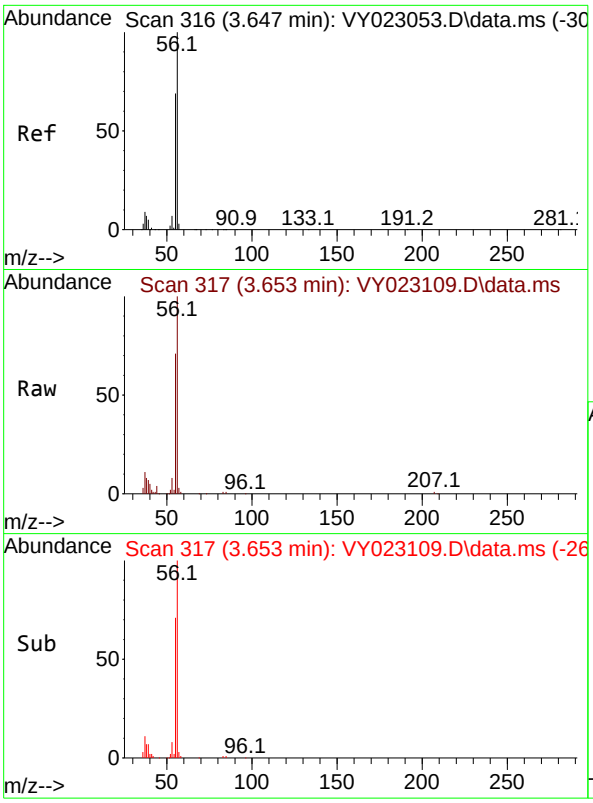



#12
1,1-Dichloroethene
Concen: 46.597 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 96 Resp: 186960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 158.3 | 129.4 | 194.2 |
| 98 | 62.7 | 52.8 | 79.2 |

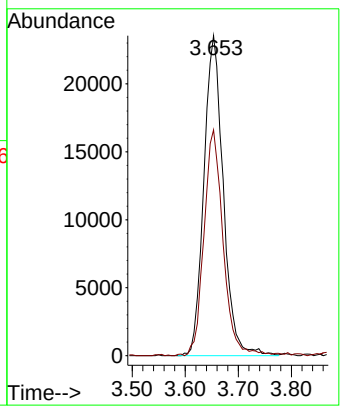





#13
Acrolein
Concen: 150.160 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 56 Resp: 5979

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 69.6 | 55.2 | 82.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

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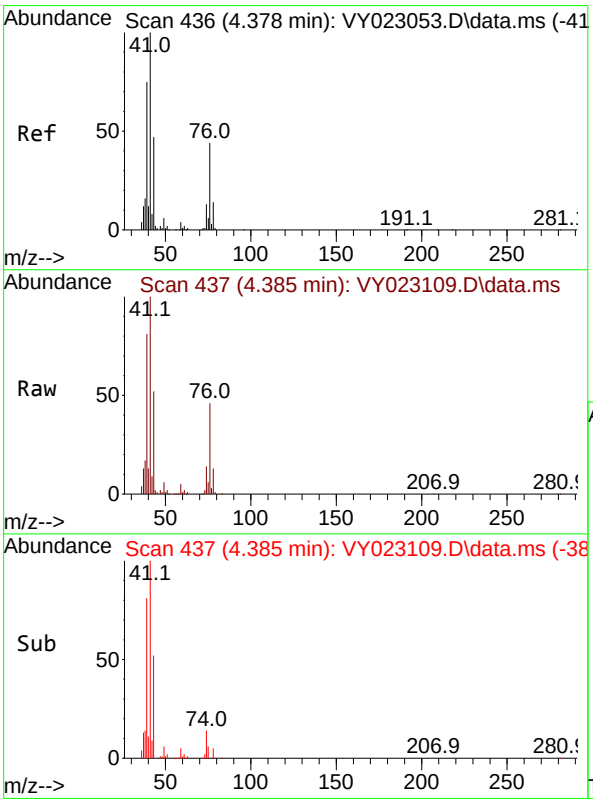
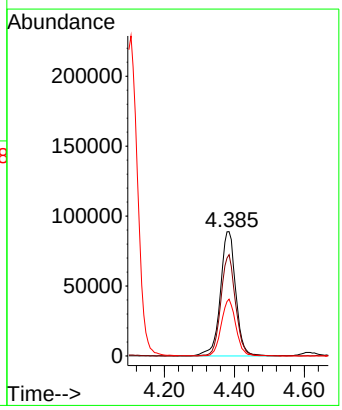
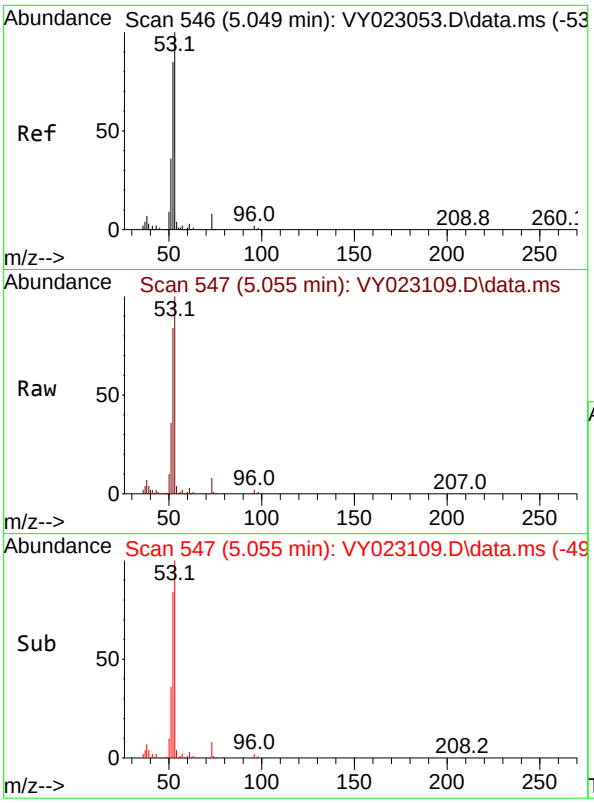



#14
Allyl chloride
Concen: 45.884 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 41 Resp: 270891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 78.0 | 59.8 | 89.6 |
| 76 | 43.3 | 33.7 | 50.5 |

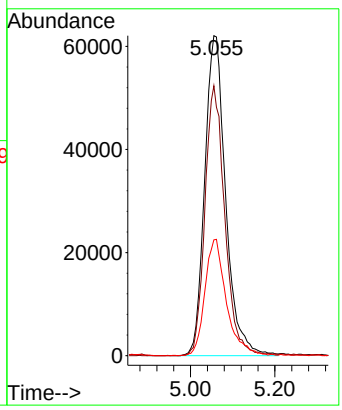





#15
Acrylonitrile
Concen: 241.303 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 53 Resp: 21474

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 80.1 | 65.3 | 97.9 |
| 51 | 37.3 | 29.5 | 44.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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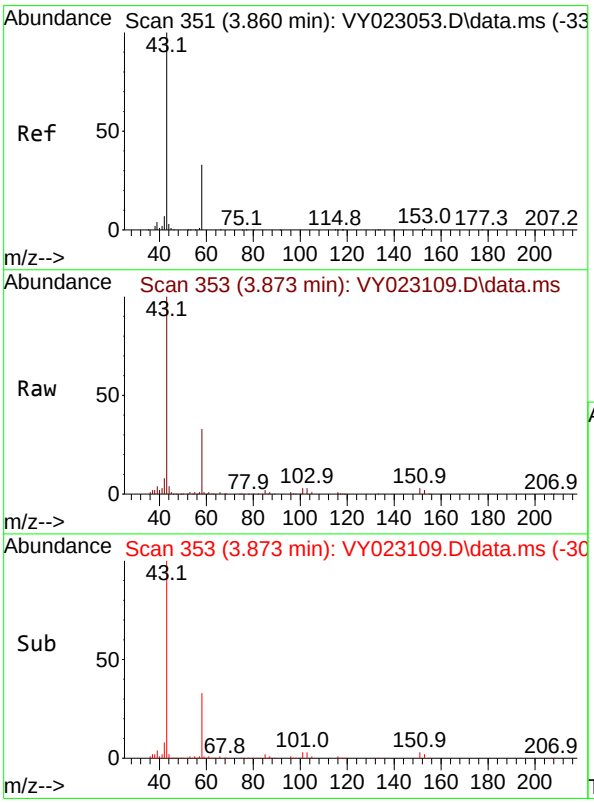
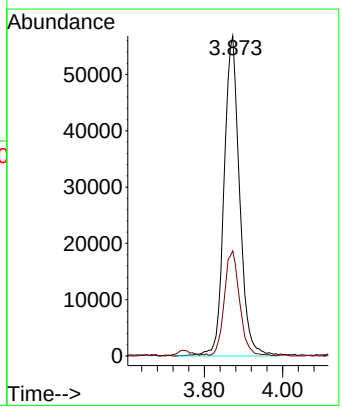
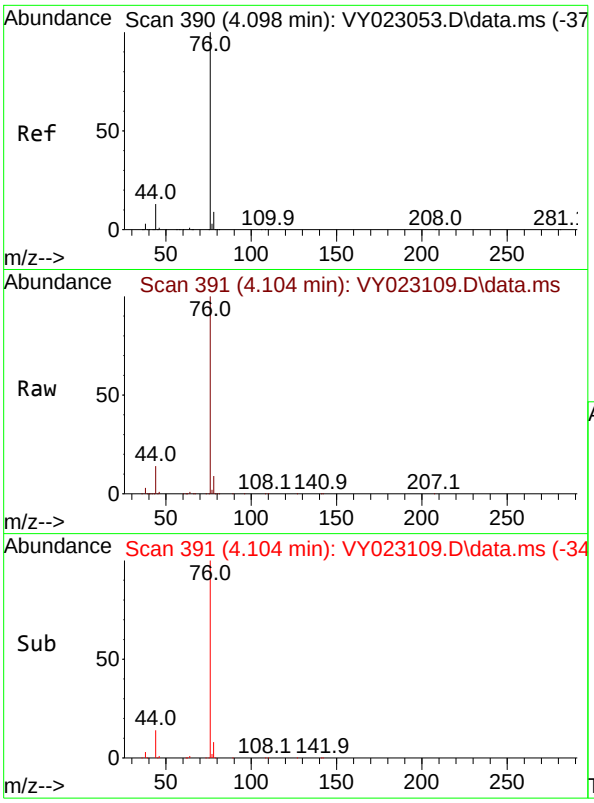



#16
Acetone
Concen: 182.326 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.012 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 43 Resp: 156746

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.6 | 27.1 | 40.7 |






#17
Carbon Disulfide
Concen: 46.257 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 76 Resp: 60516

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.0 | 7.4 | 11.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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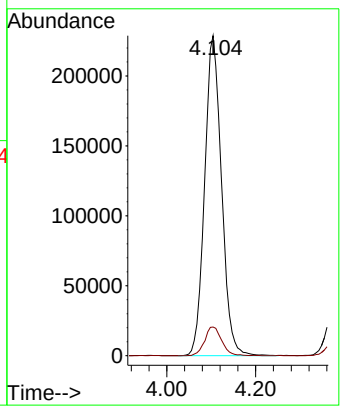
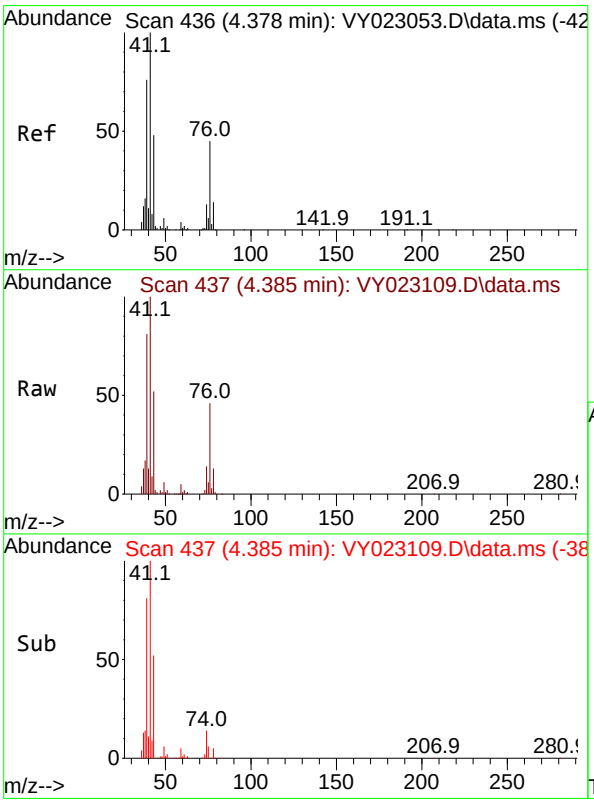
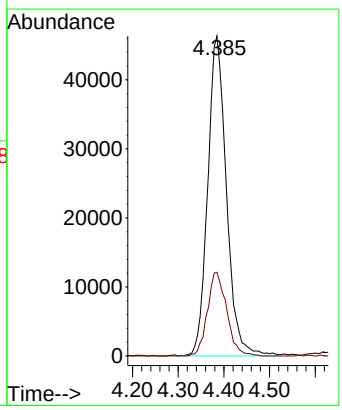


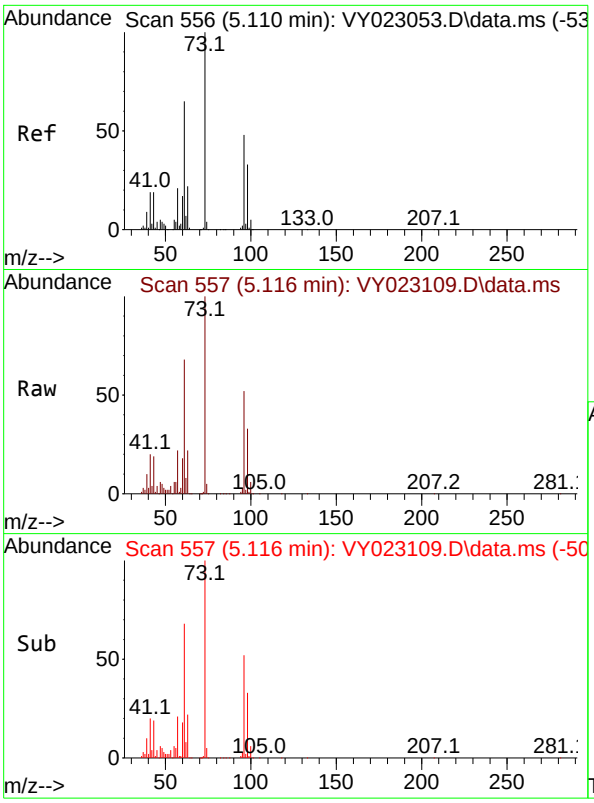




#18
Methyl Acetate
Concen: 51.627 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 43 Resp: 132078

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 26.9 | 21.2 | 31.8 |

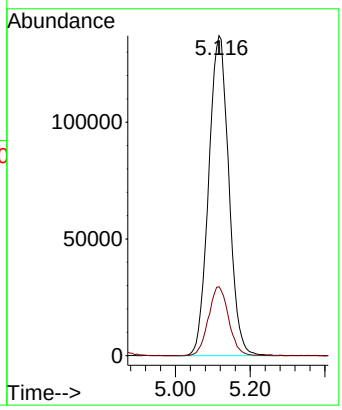





#19
Methyl tert-butyl Ether
Concen: 49.373 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 73 Resp: 51333

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.5 | 17.1 | 25.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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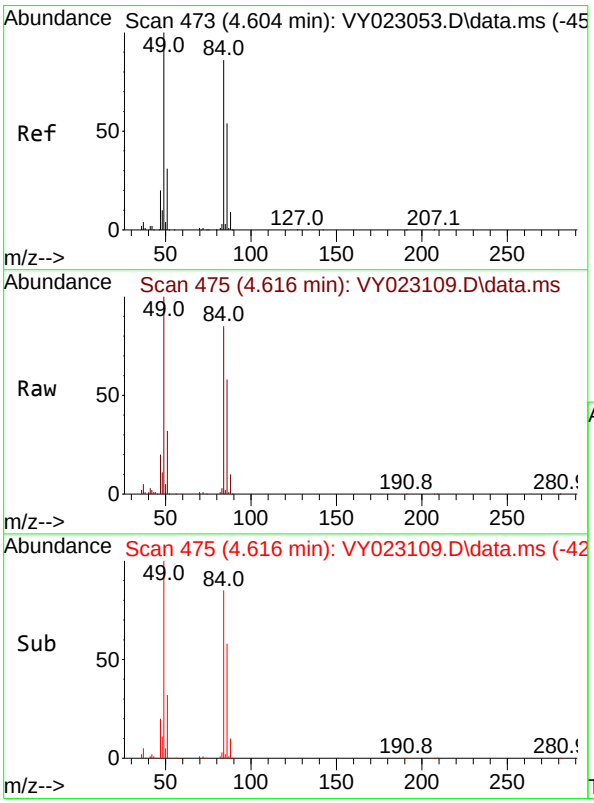
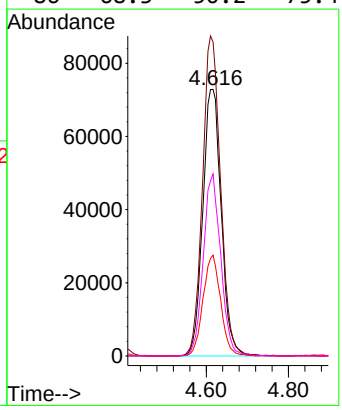
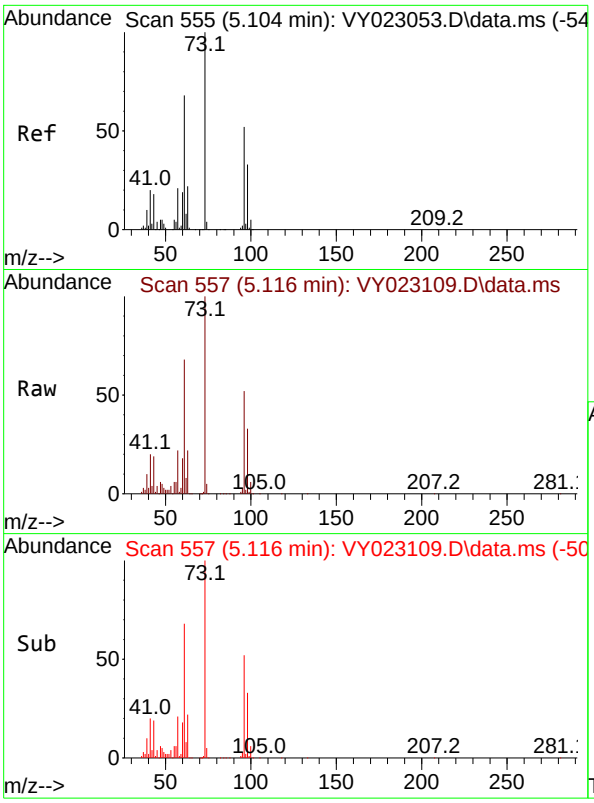



#20
Methylene Chloride
Concen: 50.830 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.012 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 84 Resp: 226871

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 117.8 | 93.0 | 139.6 |
| 51 | 37.9 | 29.0 | 43.4 |
| 86 | 68.3 | 50.2 | 75.4 |

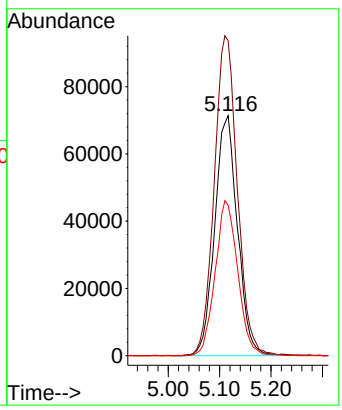





#21
trans-1,2-Dichloroethene
Concen: 48.739 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 96 Resp: 21976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 131.3 | 104.8 | 157.2 |
| 98 | 62.7 | 50.1 | 75.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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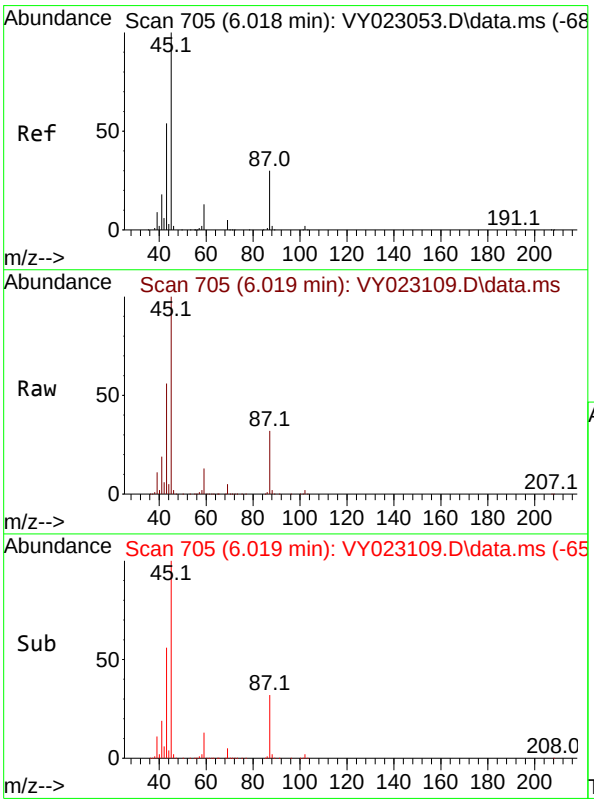
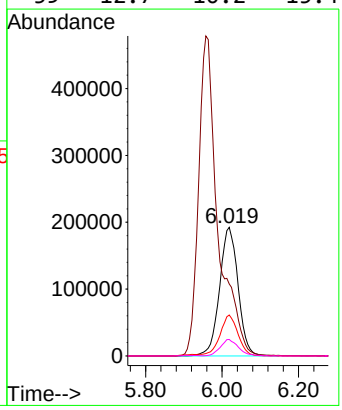
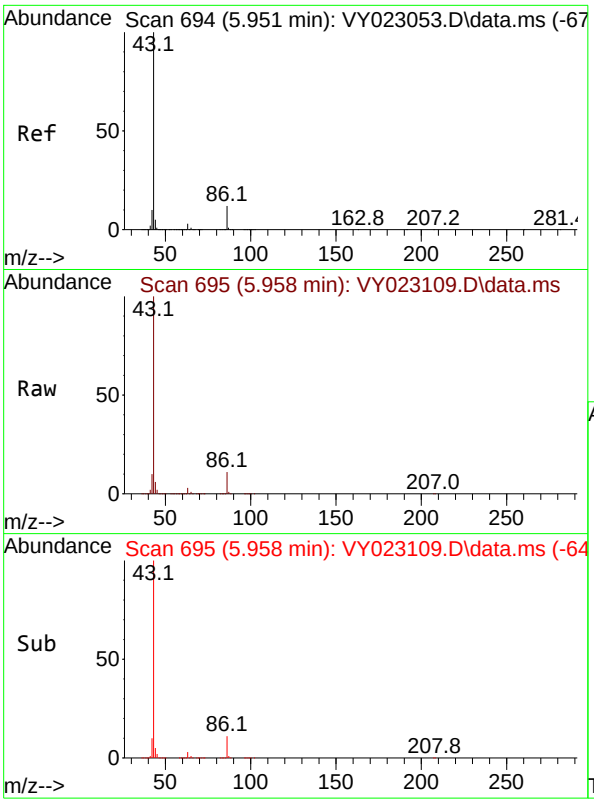



#22
Diisopropyl ether
Concen: 50.509 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 45 Resp: 647978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 56.0 | 43.4 | 65.0 |
| 87 | 31.9 | 24.4 | 36.6 |
| 59 | 12.7 | 10.2 | 15.4 |






#23
Vinyl Acetate
Concen: 238.003 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 43 Resp: 168835

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.5 | 9.6 | 14.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

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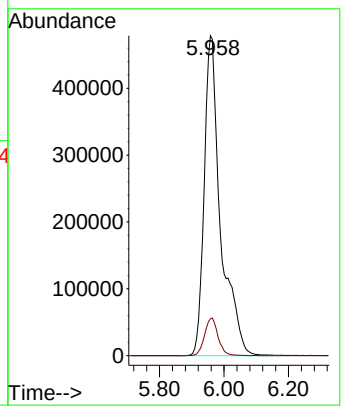
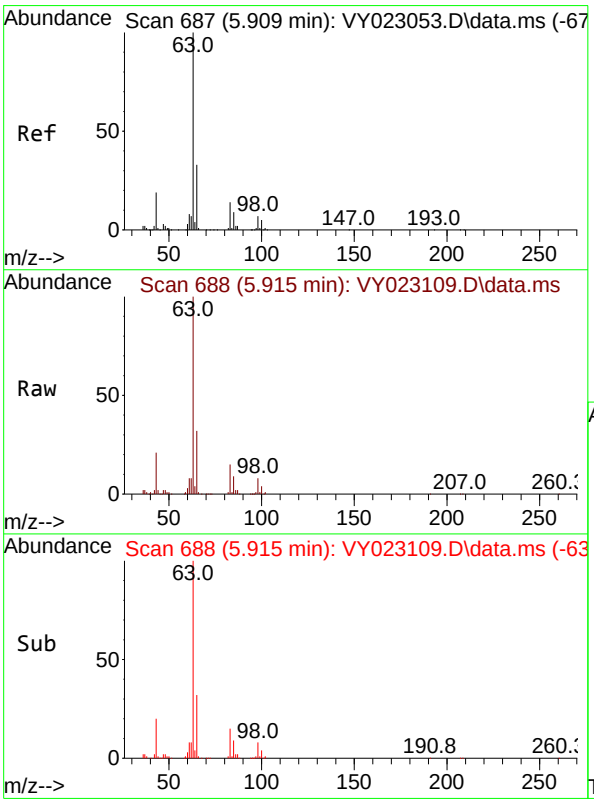
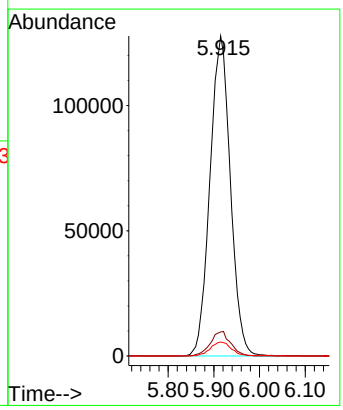


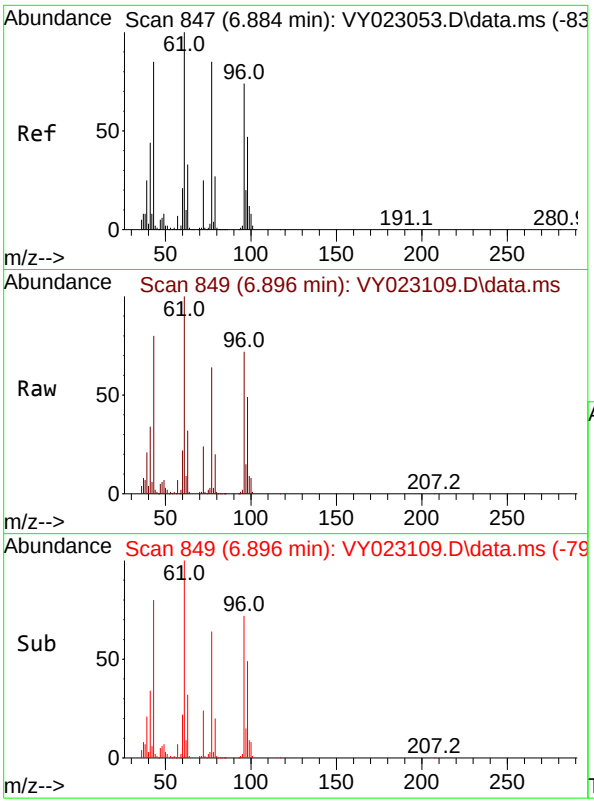




#24
1,1-Dichloroethane
Concen: 50.629 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 63 Resp: 397112

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.5 | 3.5 | 10.6 |
| 100 | 4.4 | 2.4 | 7.1 |






#25
2-Butanone
Concen: 220.416 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.012 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 43 Resp: 25771

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 30.4 | 23.5 | 35.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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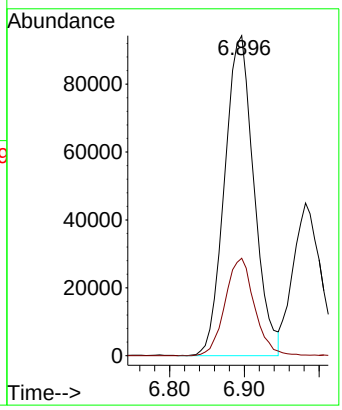
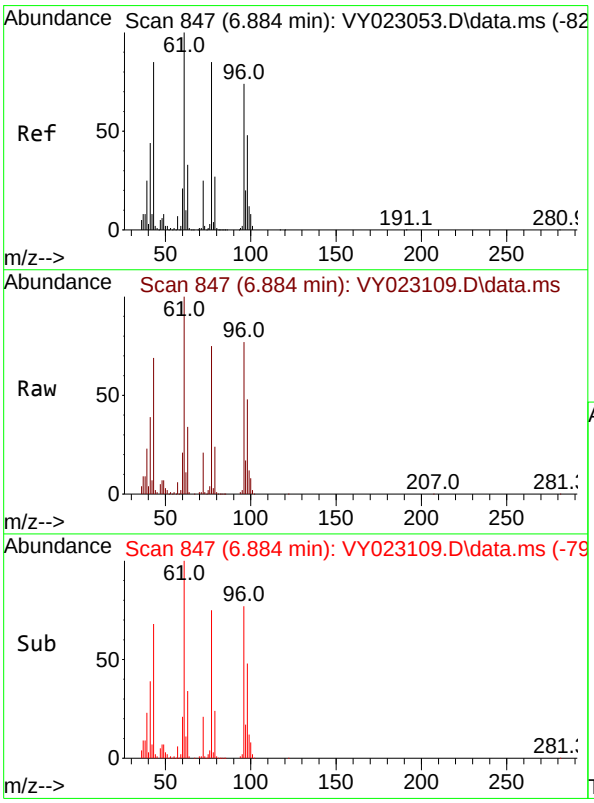
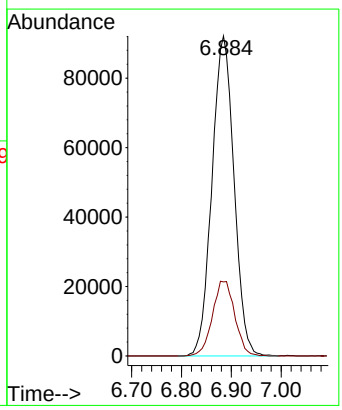


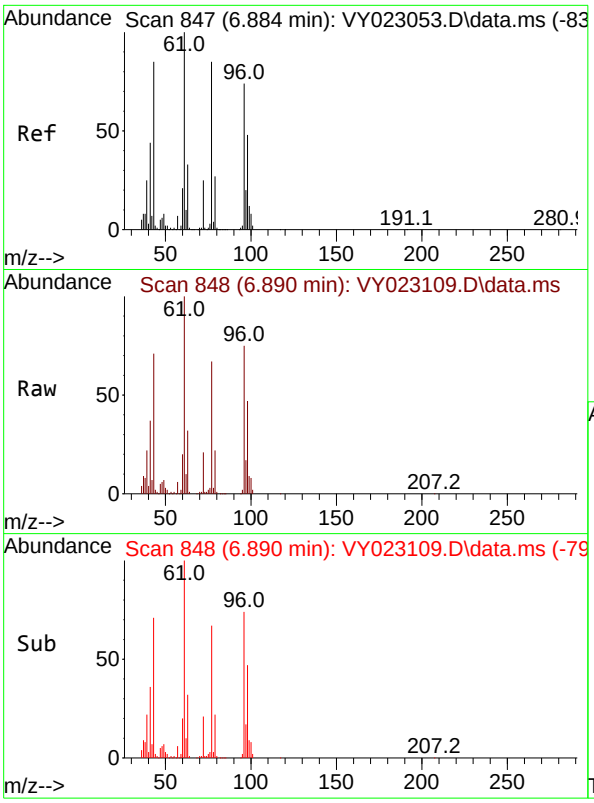




#26
2,2-Dichloropropane
Concen: 41.758 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 77 Resp: 282620

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.7 | 11.6 | 34.8 |






#27
cis-1,2-Dichloroethene
Concen: 50.429 ug/l
RT: 6.890 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

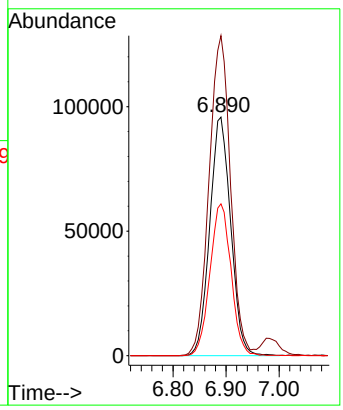
Tgt Ion: 96 Resp: 26286

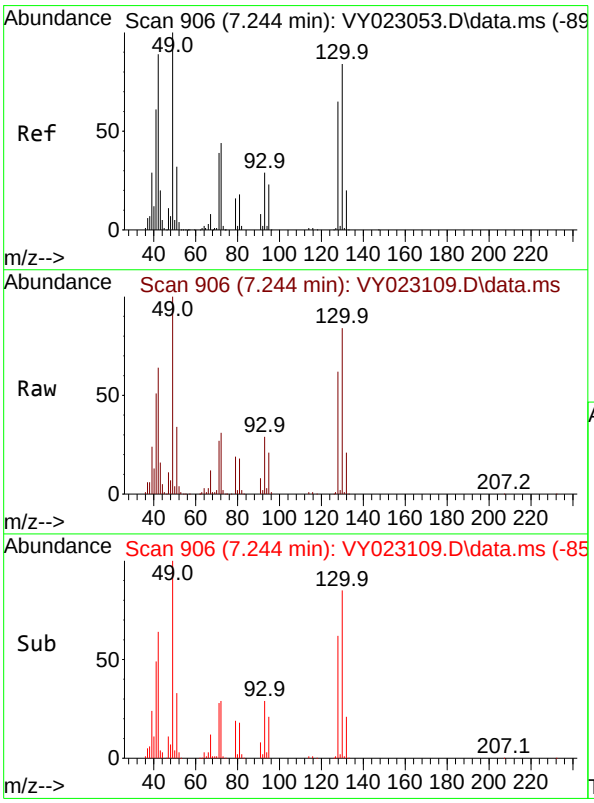
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 137.3 | 0.0 | 278.6 |
| 98 | 64.3 | 0.0 | 130.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

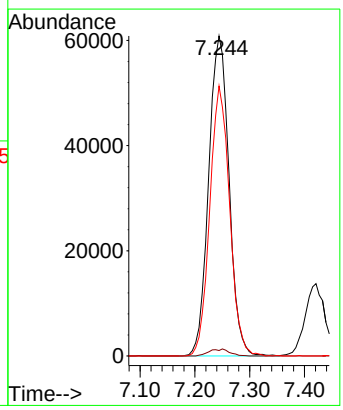


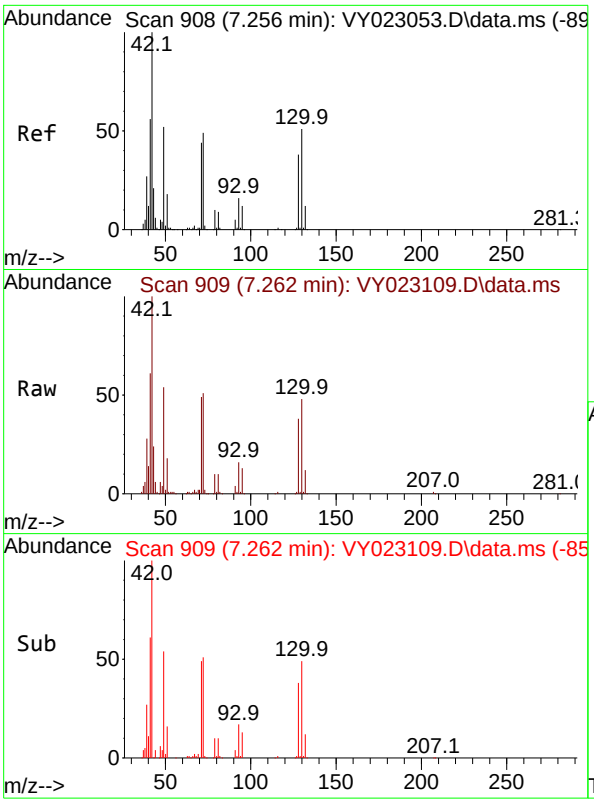




#28
Bromochloromethane
Concen: 50.366 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 49 Resp: 156731

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.2 | 0.0 | 4.2 |
| 130 | 82.2 | 66.4 | 99.6 |

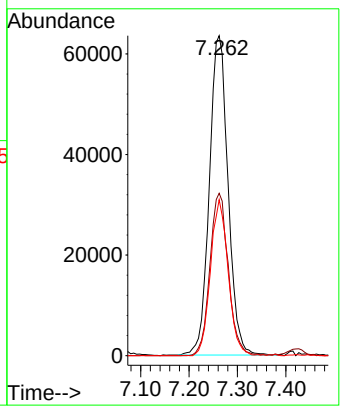





#29
Tetrahydrofuran
Concen: 235.626 ug/l
RT: 7.262 min Scan# 9(
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 42 Resp: 17077

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 50.1 | 39.4 | 59.2 |
| 71 | 46.1 | 36.5 | 54.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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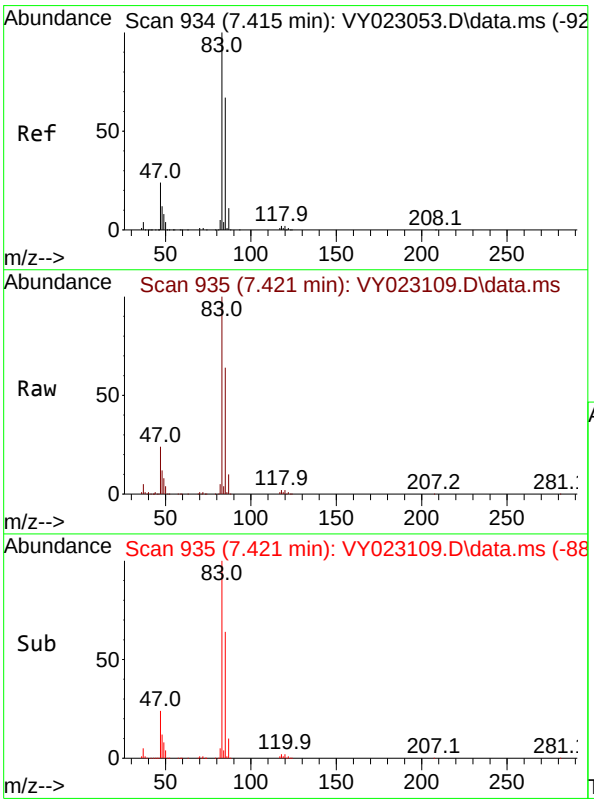
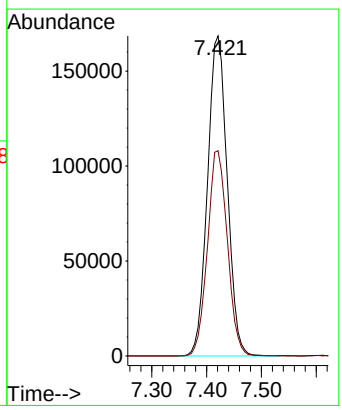
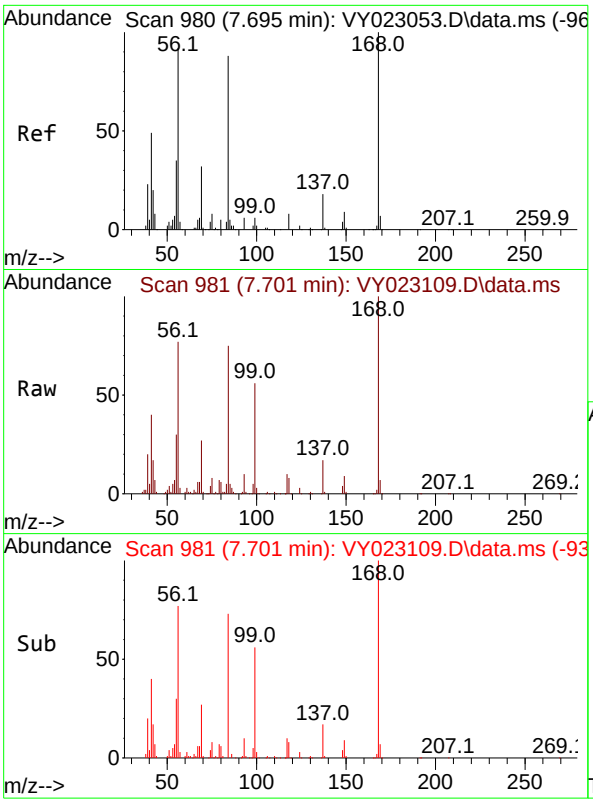



#30
Chloroform
Concen: 51.980 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 83 Resp: 420476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.2 | 53.8 | 80.8 |

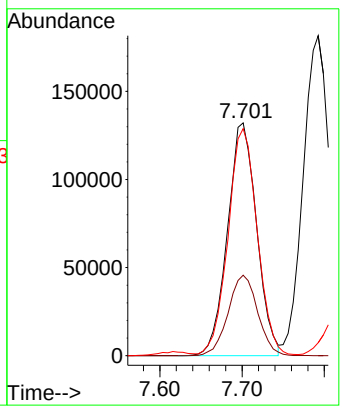





#31
Cyclohexane
Concen: 43.985 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 56 Resp: 32510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 34.6 | 28.2 | 42.2 |
| 84 | 96.0 | 76.6 | 114.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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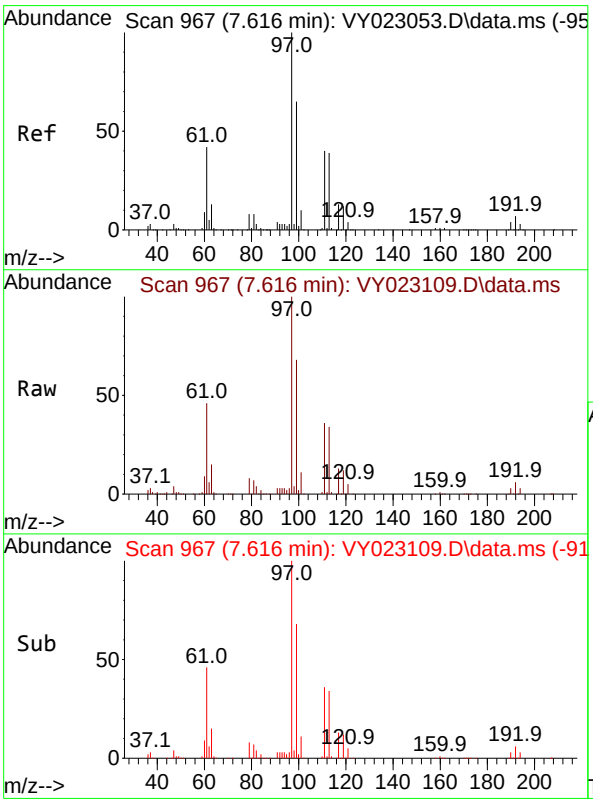
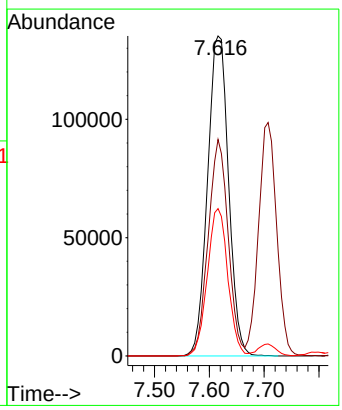
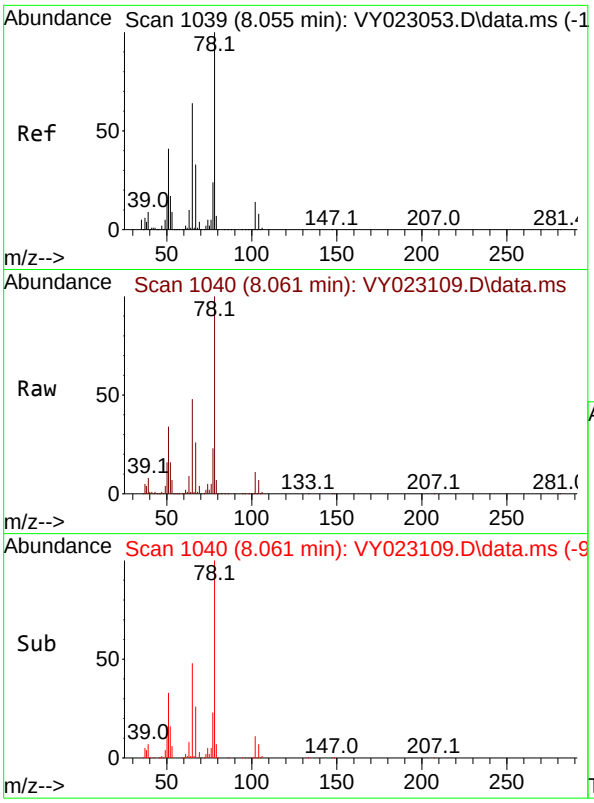



#32
1,1,1-Trichloroethane
Concen: 50.099 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 97 Resp: 359591

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.4 | 51.6 | 77.4 |
| 61 | 45.0 | 34.2 | 51.2 |

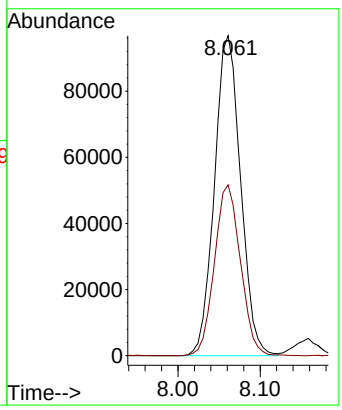





#33
1,2-Dichloroethane-d4
Concen: 53.901 ug/l
RT: 8.061 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 65 Resp: 21389

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.0 | 0.0 | 106.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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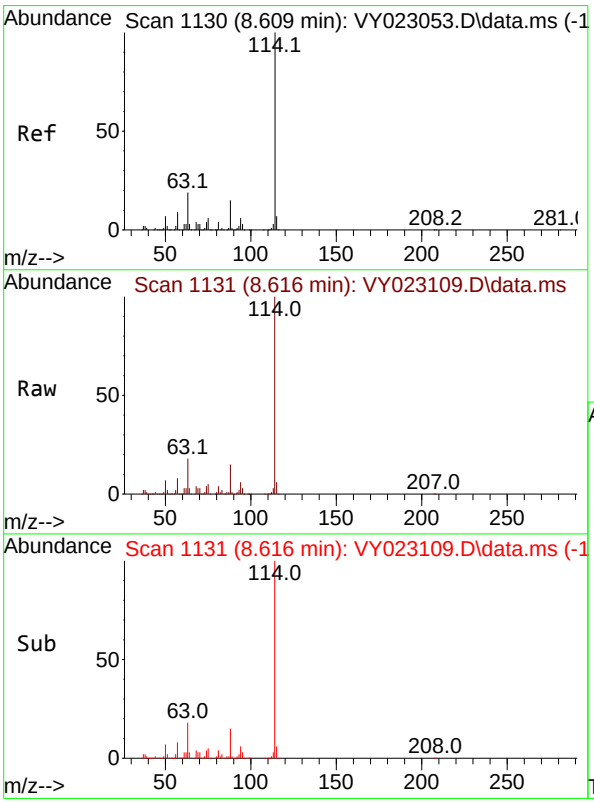
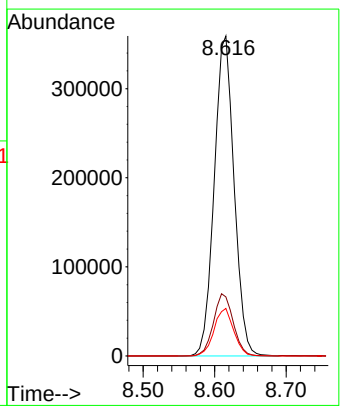
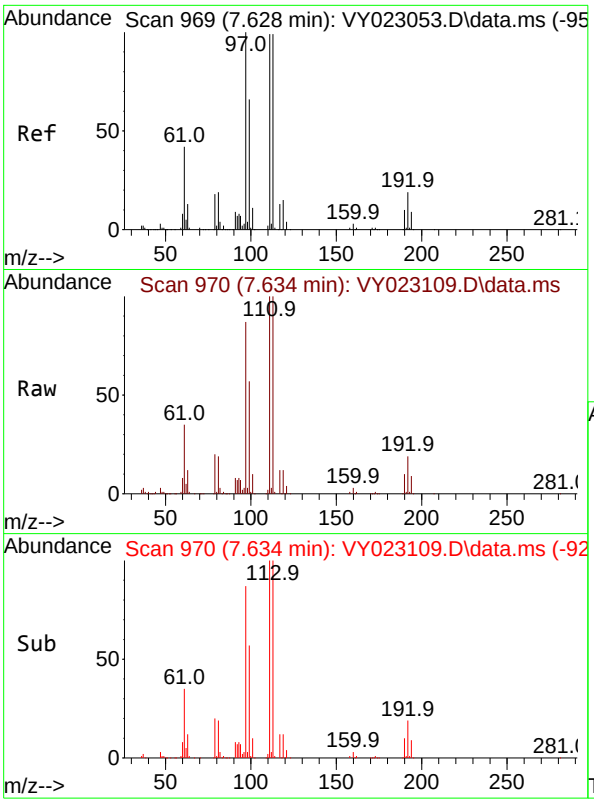



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:114 Resp: 692312

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.5 | 0.0 | 38.4 |
| 88 | 14.9 | 0.0 | 30.0 |






#35
Dibromofluoromethane
Concen: 50.660 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:113 Resp: 20986

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.3 | 81.1 | 121.7 |
| 192 | 19.4 | 16.2 | 24.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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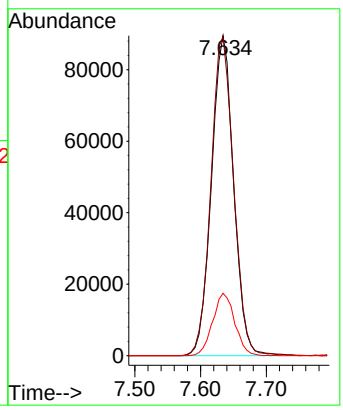
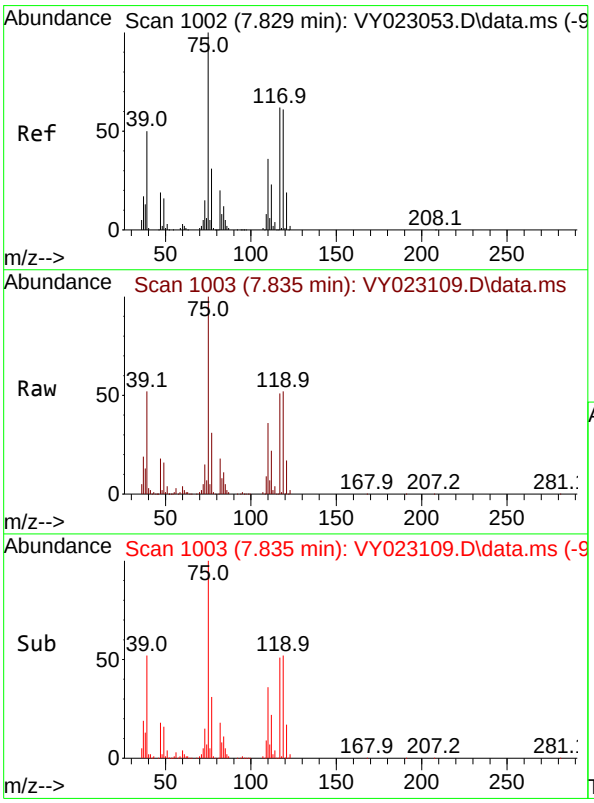
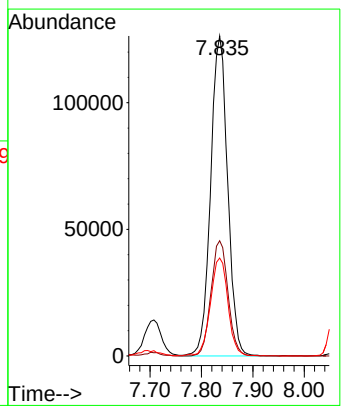


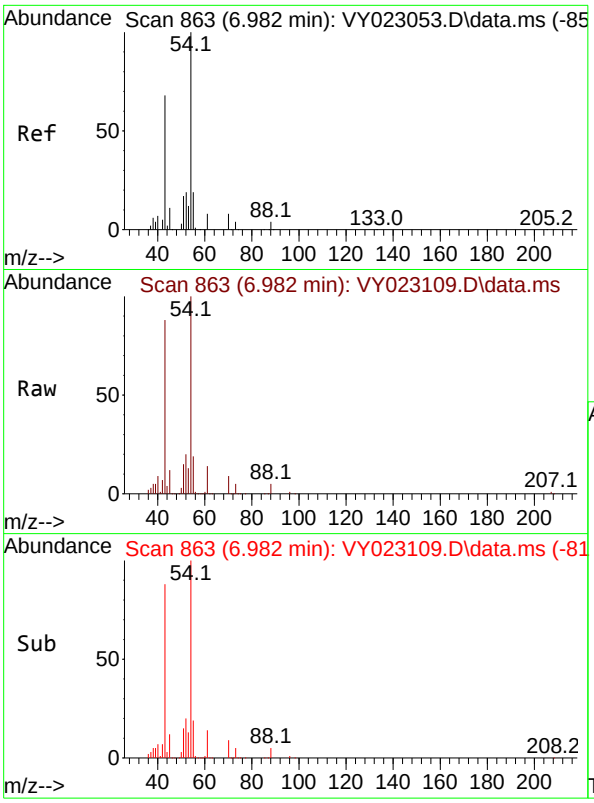




#36
1,1-Dichloropropene
Concen: 47.183 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 75 Resp: 290479

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 36.0 | 18.1 | 54.4 |
| 77 | 31.4 | 24.6 | 37.0 |






#37
Ethyl Acetate
Concen: 45.871 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 43 Resp: 11862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.9 | 11.9 | 17.9 |
| 70 | 10.4 | 8.8 | 13.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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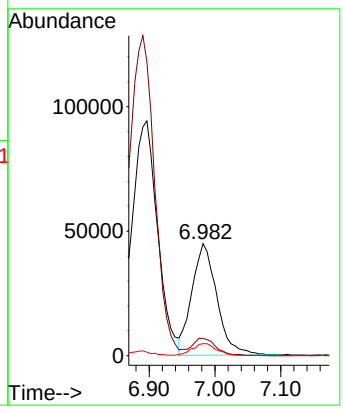
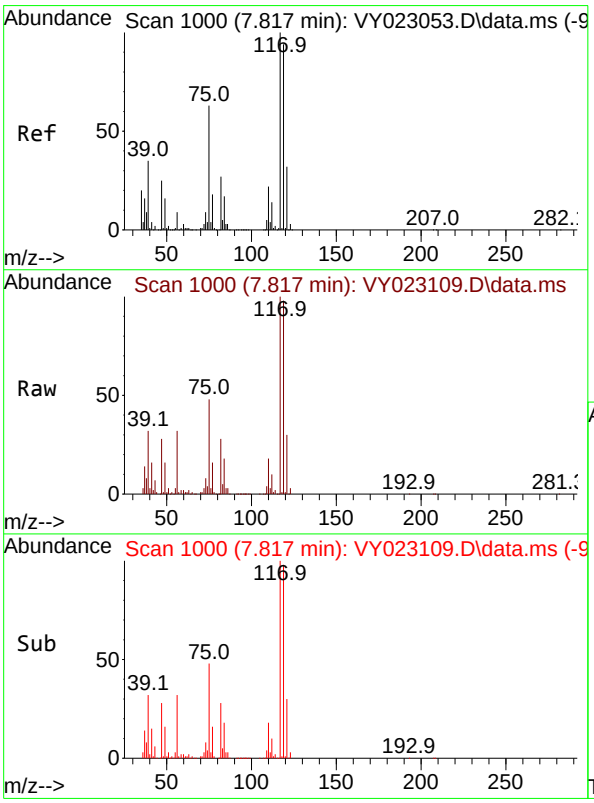
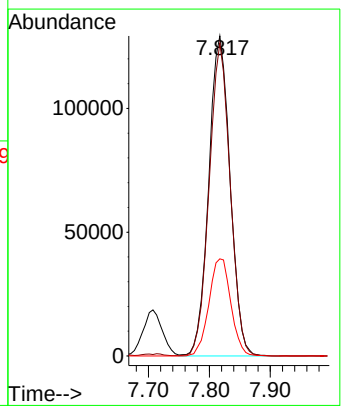


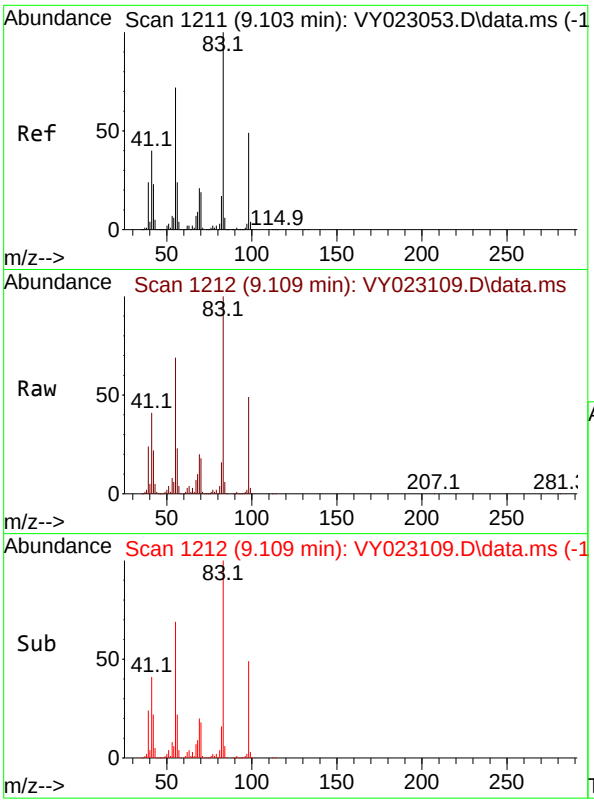




#38
Carbon Tetrachloride
Concen: 47.160 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:117 Resp: 315347

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 97.8 | 75.6 | 113.4 |
| 121 | 30.4 | 25.8 | 38.8 |






#39
Methylcyclohexane
Concen: 45.989 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 83 Resp: 37284

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 69.4 | 57.6 | 86.4 |
| 98 | 49.4 | 39.2 | 58.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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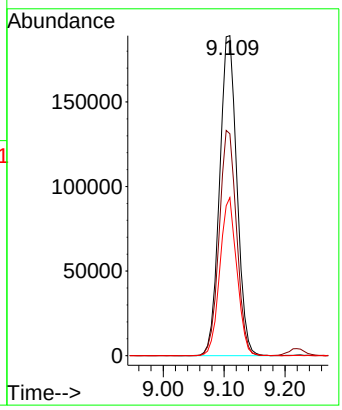
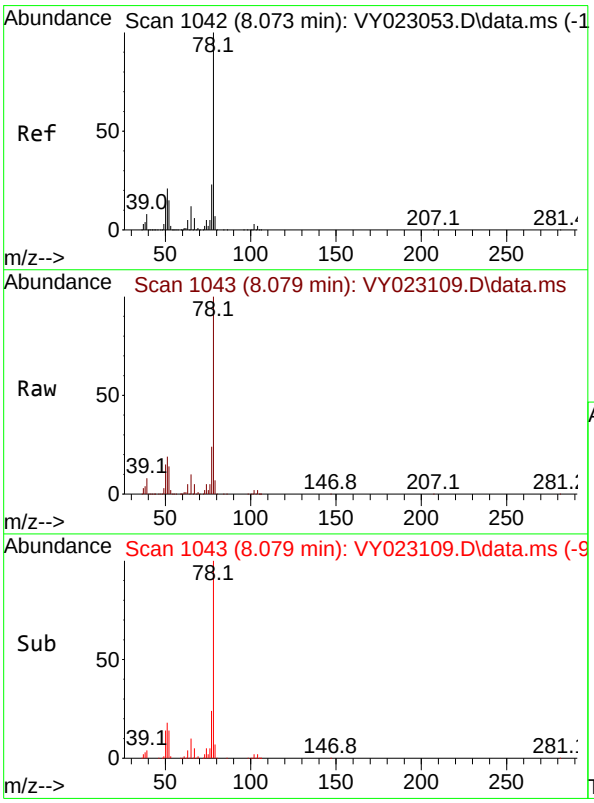
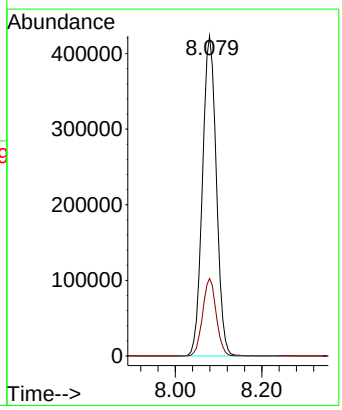


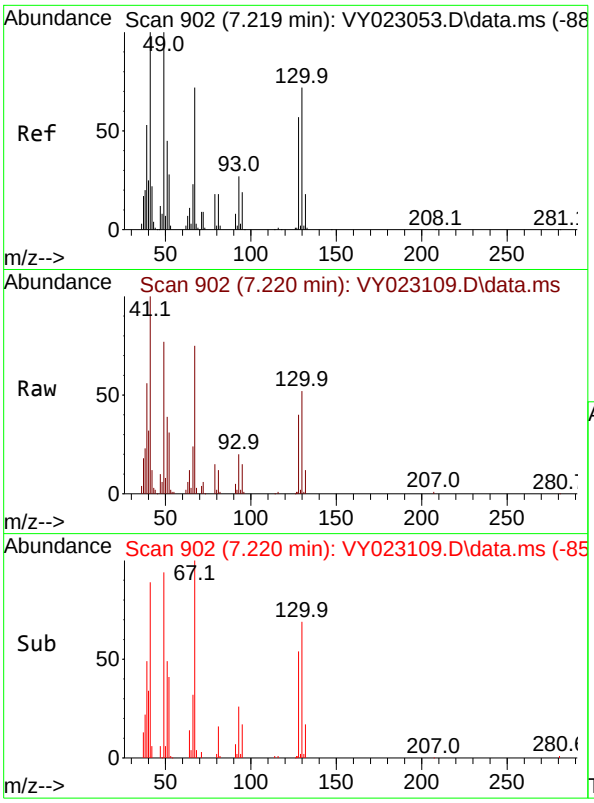




#40
Benzene
Concen: 49.676 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 78 Resp: 942603

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.2 | 18.6 | 28.0 |

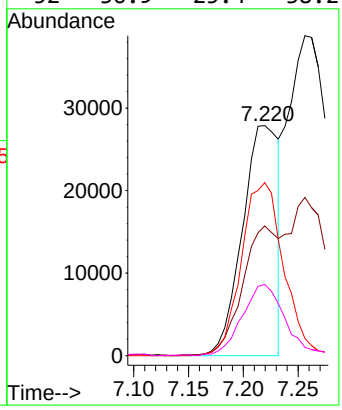





#41
Methacrylonitrile
Concen: 42.799 ug/l
RT: 7.220 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 41 Resp: 6387

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 55.6 | 43.4 | 65.2 |
| 67 | 88.2 | 63.6 | 95.4 |
| 52 | 36.9 | 25.4 | 38.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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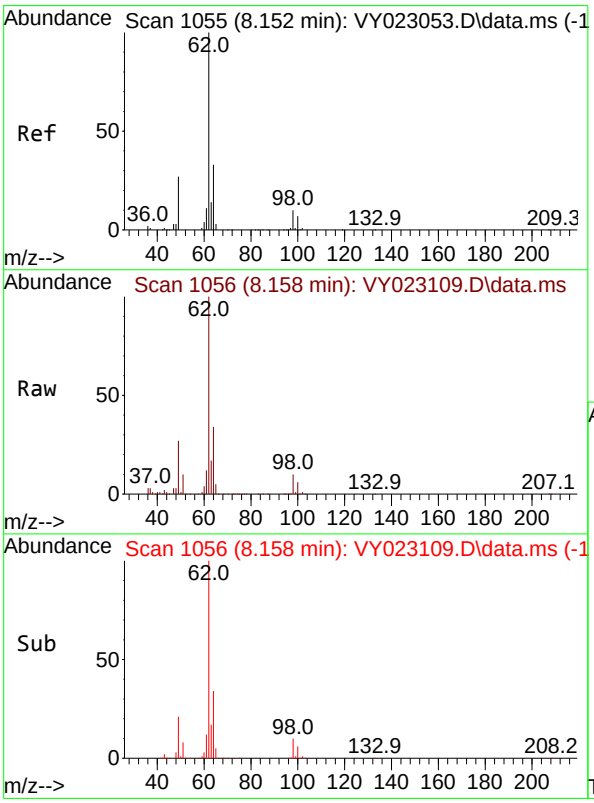
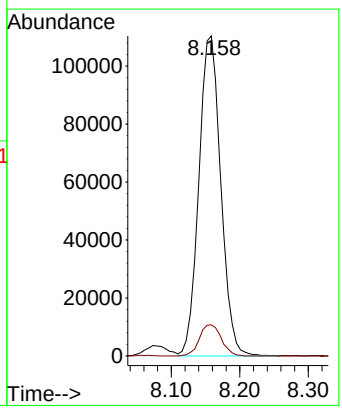
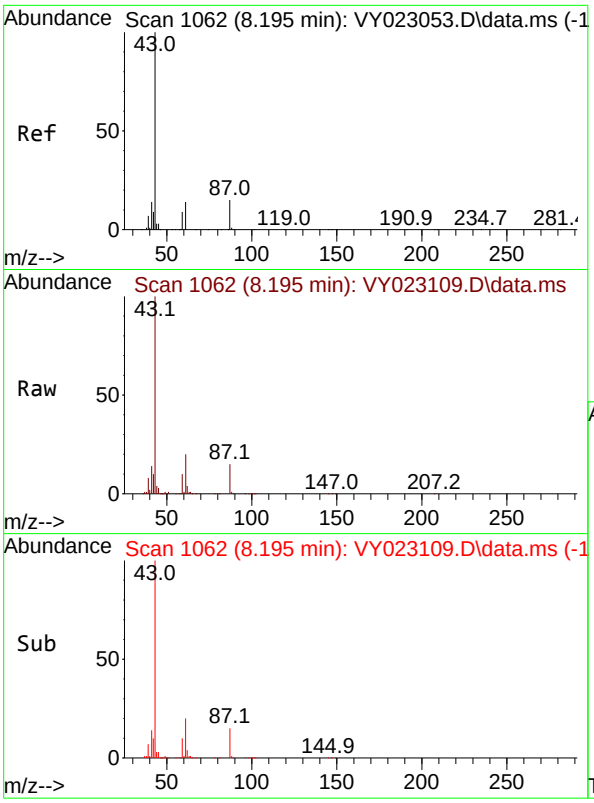



#42
1,2-Dichloroethane
Concen: 49.831 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 62 Resp: 245917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.8 | 0.0 | 20.6 |






#43
Isopropyl Acetate
Concen: 46.911 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 43 Resp: 24520

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 20.6 | 16.4 | 24.6 |
| 87 | 14.9 | 11.8 | 17.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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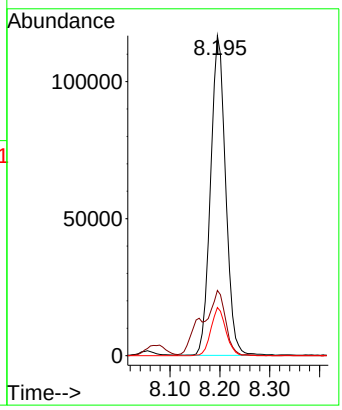
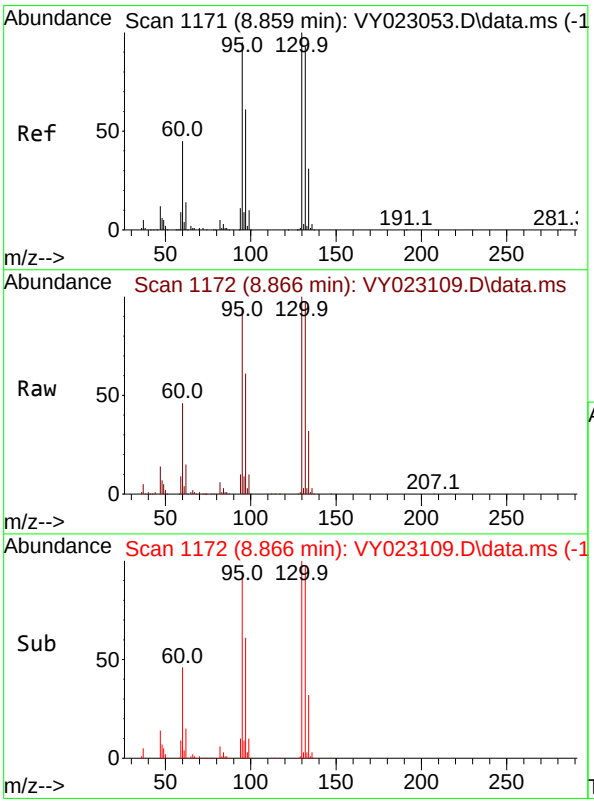
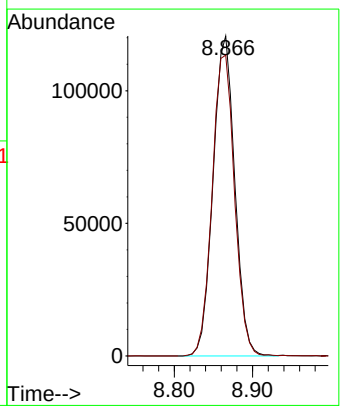


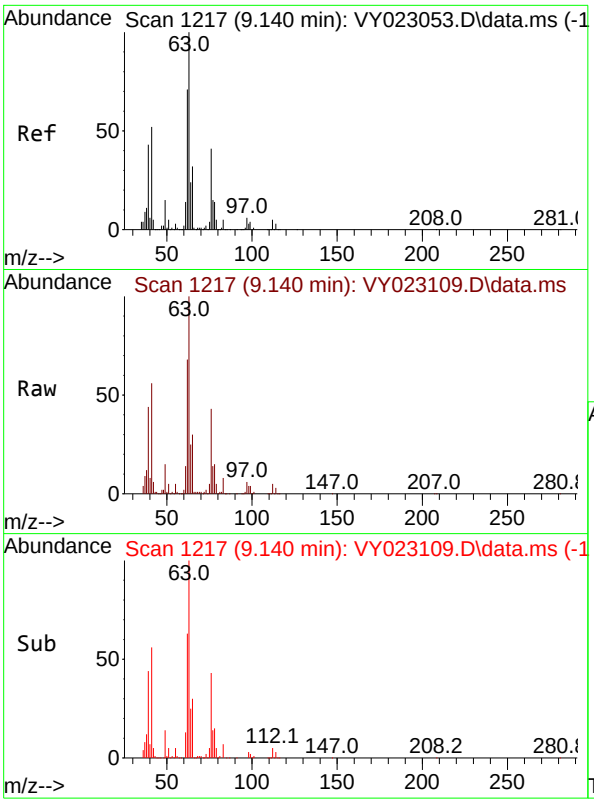




#44
Trichloroethene
Concen: 47.429 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:130 Resp: 232571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 94.0 | 0.0 | 190.2 |

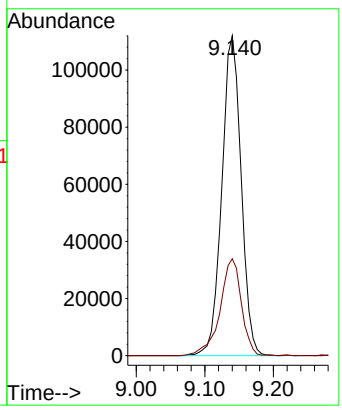





#45
1,2-Dichloropropane
Concen: 50.190 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 63 Resp: 21912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.3 | 25.3 | 37.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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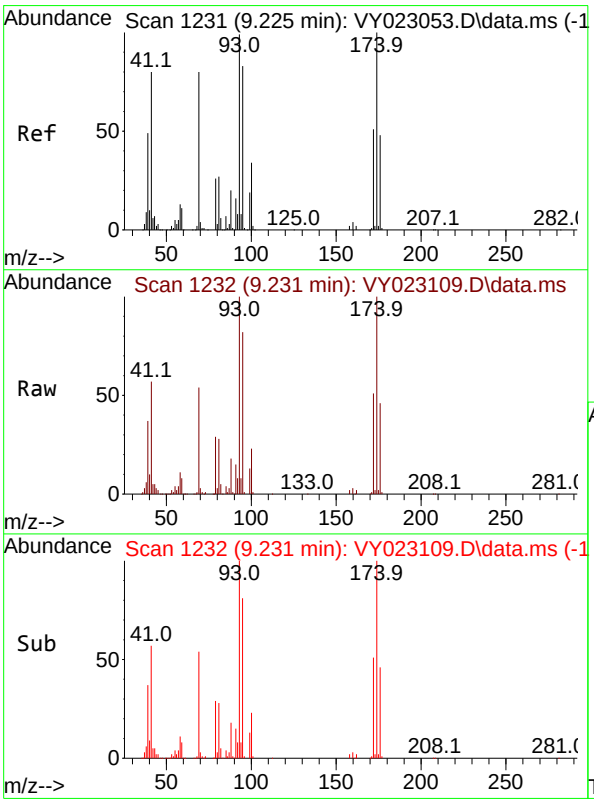
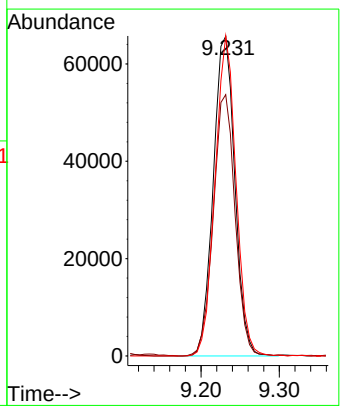
Supervised By :Mahesh Dadoda 08/19/2025

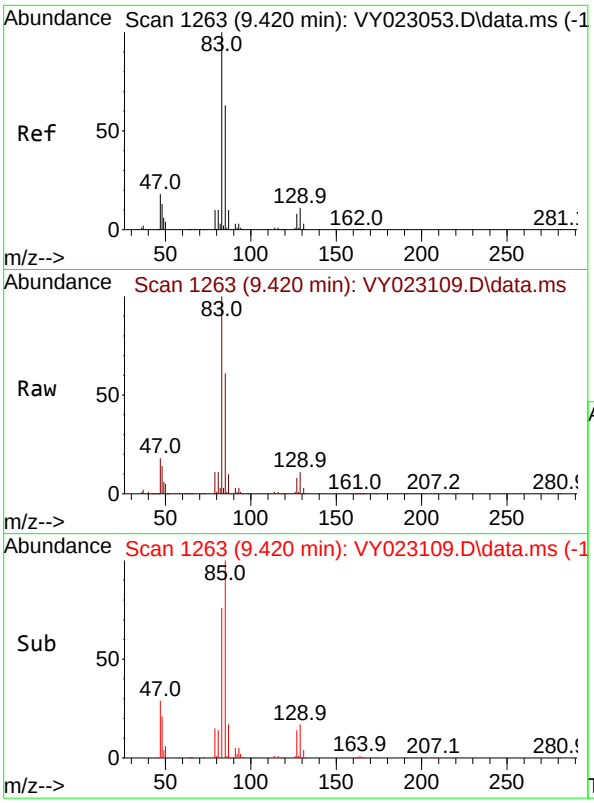



#46
Dibromomethane
Concen: 50.217 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 93 Resp: 125840

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.7 | 66.5 | 99.7 |
| 174 | 97.4 | 81.8 | 122.8 |

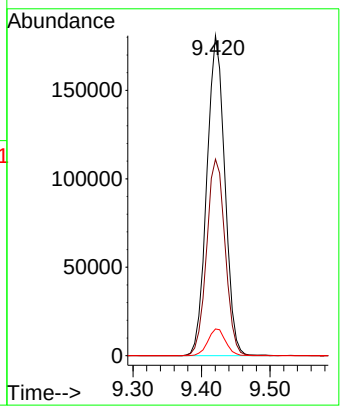





#47
Bromodichloromethane
Concen: 51.308 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 83 Resp: 33083

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 61.4 | 50.2 | 75.4 |
| 127 | 8.3 | 6.6 | 10.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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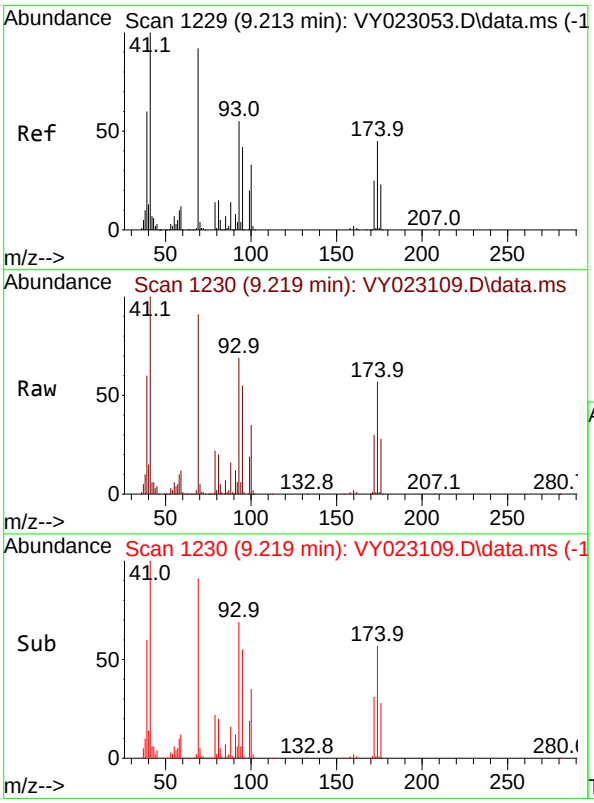
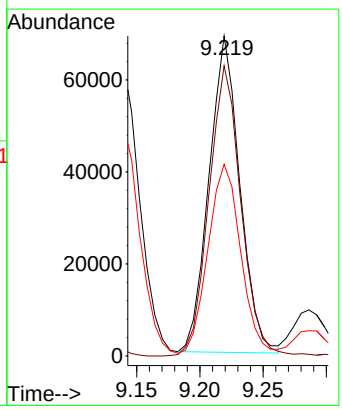
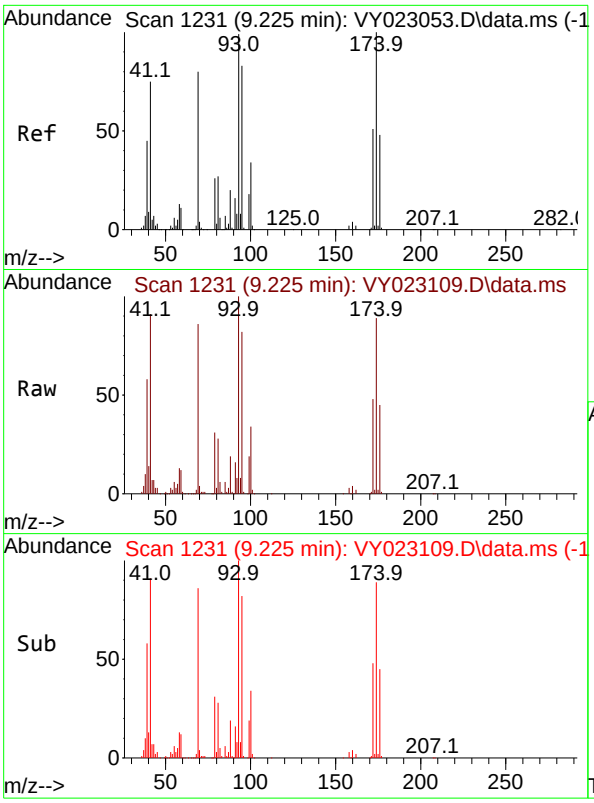



#48
Methyl methacrylate
Concen: 46.602 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 41 Resp: 116562

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 95.4 | 73.2 | 109.8 |
| 39 | 63.1 | 47.0 | 70.4 |






#49
1,4-Dioxane
Concen: 959.813 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 88 Resp: 2820

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 28.7 | 24.3 | 36.5 |
| 58 | 62.1 | 55.4 | 83.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

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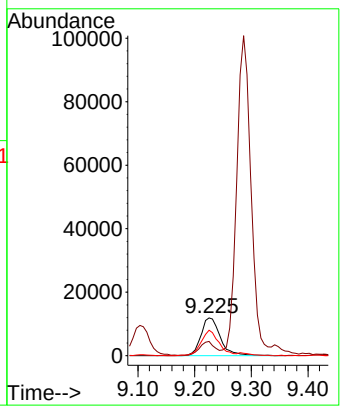
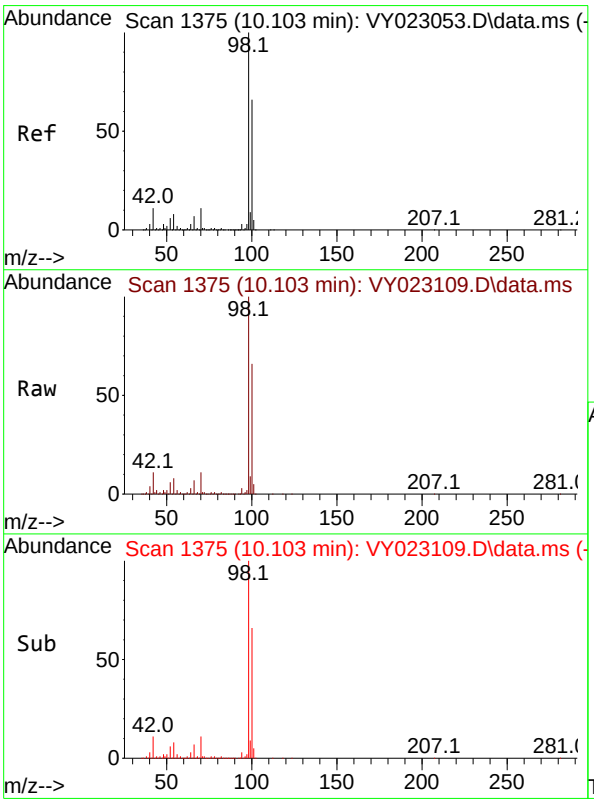
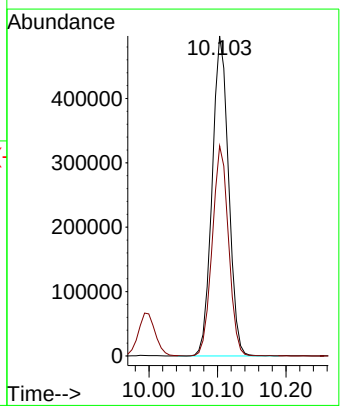


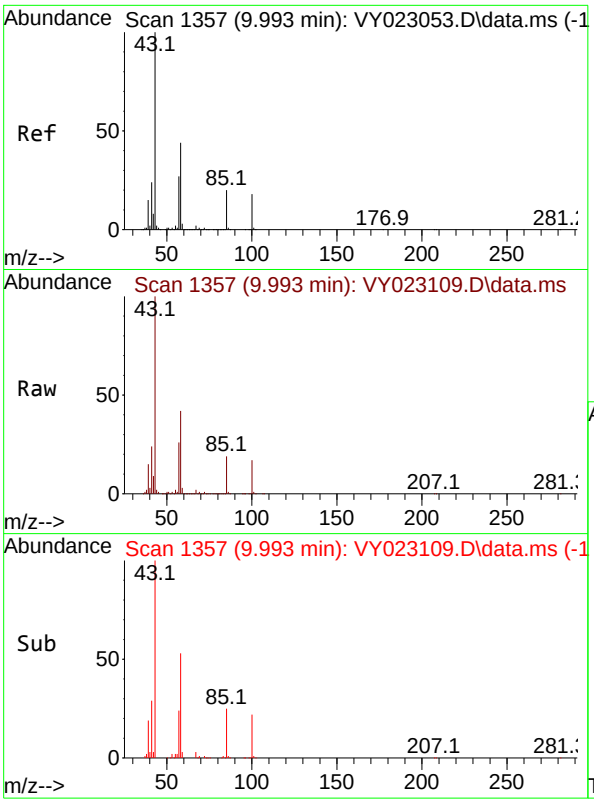




#50
Toluene-d8
Concen: 50.964 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 98 Resp: 824760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.2 | 52.3 | 78.5 |

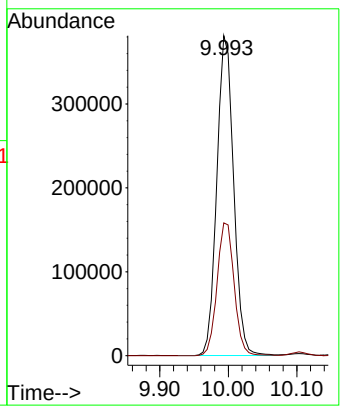





#51
4-Methyl-2-Pentanone
Concen: 240.407 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 43 Resp: 64819

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 42.2 | 33.5 | 50.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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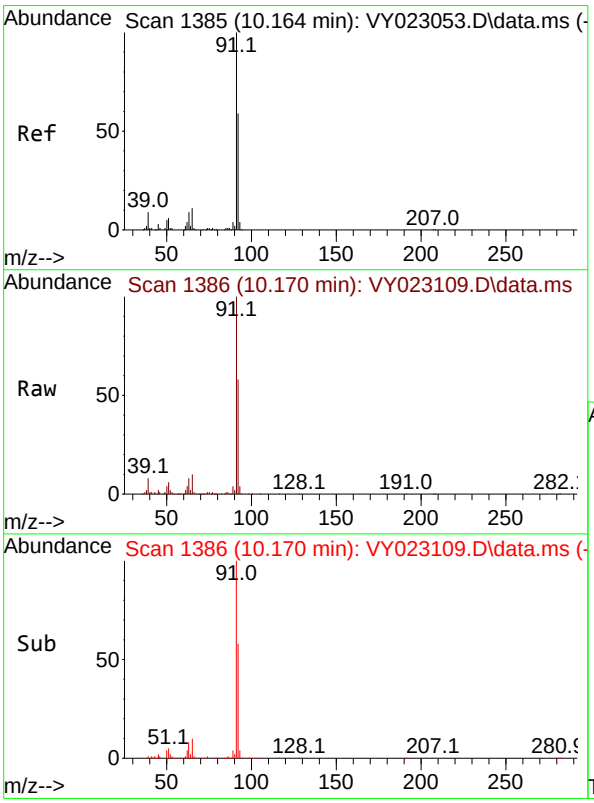
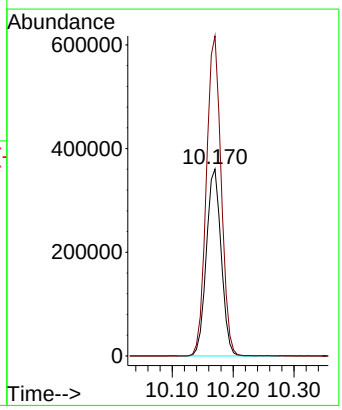
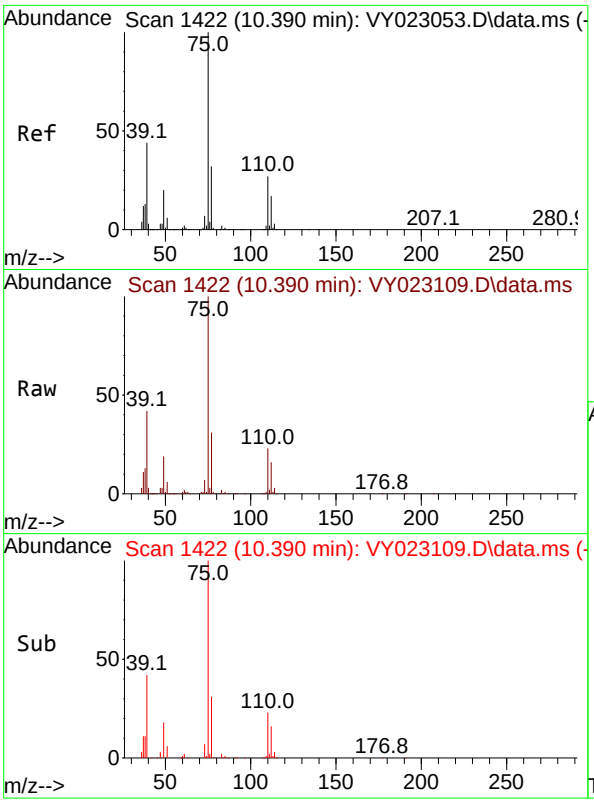



#52
Toluene
Concen: 50.491 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 92 Resp: 608495

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 171.0 | 136.4 | 204.6 |

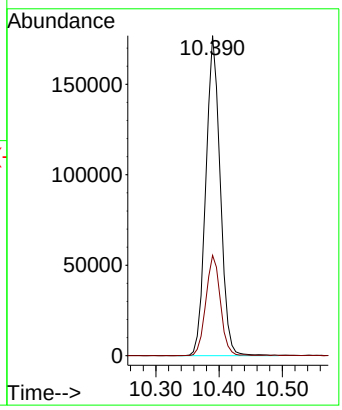





#53
t-1,3-Dichloropropene
Concen: 48.061 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 75 Resp: 28062

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.3 | 25.7 | 38.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

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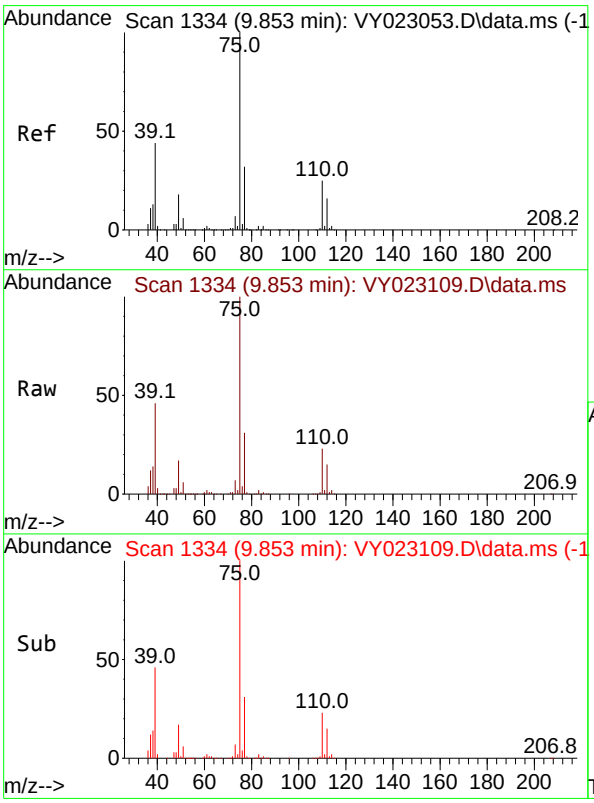
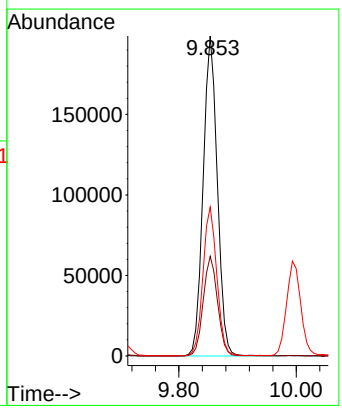
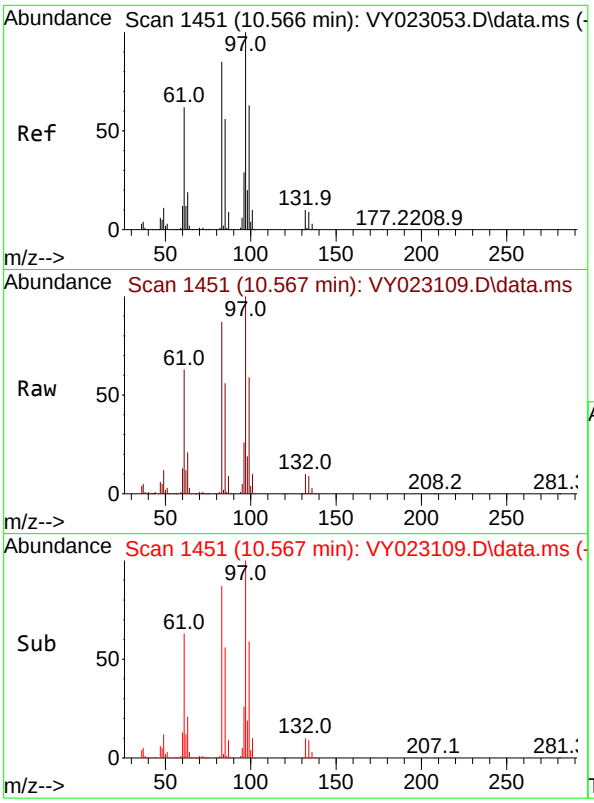



#54
cis-1,3-Dichloropropene
Concen: 48.260 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 75 Resp: 333217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.1 | 25.4 | 38.0 |
| 39 | 46.4 | 35.6 | 53.4 |

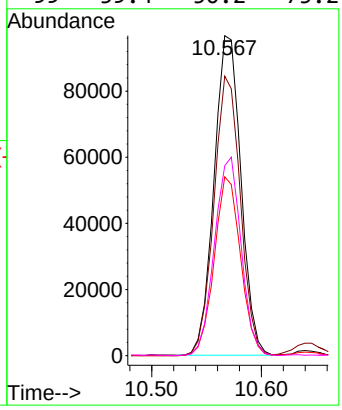





#55
1,1,2-Trichloroethane
Concen: 49.113 ug/l
RT: 10.567 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 97 Resp: 16468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 87.5 | 67.7 | 101.5 |
| 85 | 56.0 | 44.5 | 66.7 |
| 99 | 59.4 | 50.2 | 75.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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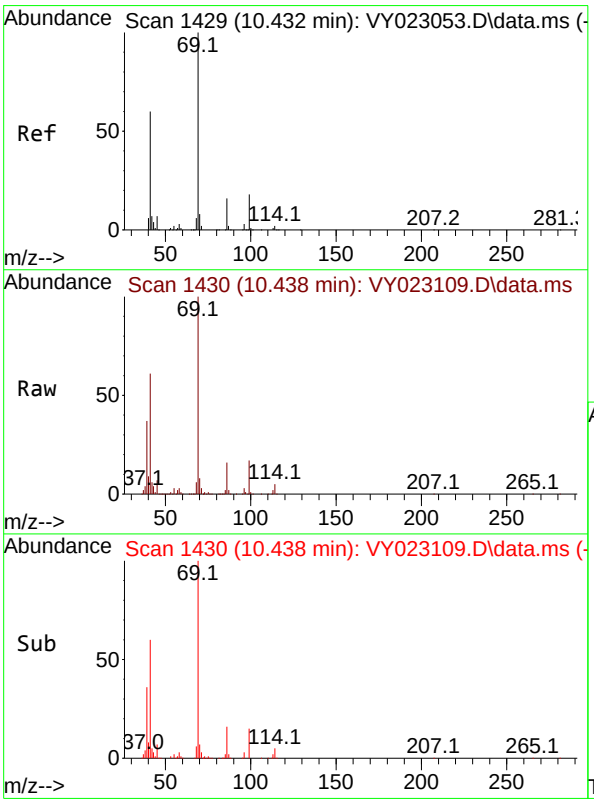
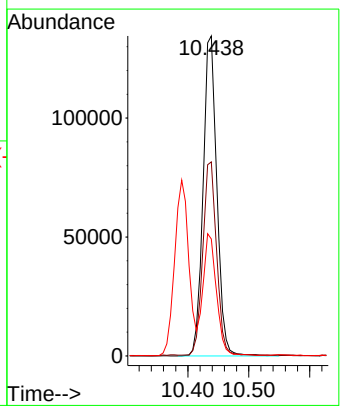
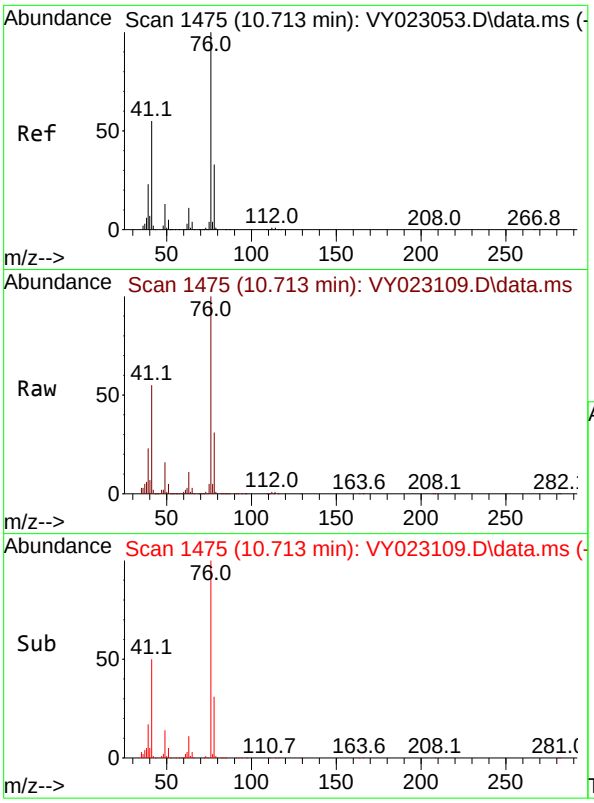



#56
Ethyl methacrylate
Concen: 49.346 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 69 Resp: 211730

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 60.3 | 48.6 | 72.8 |
| 39 | 37.1 | 27.0 | 40.4 |

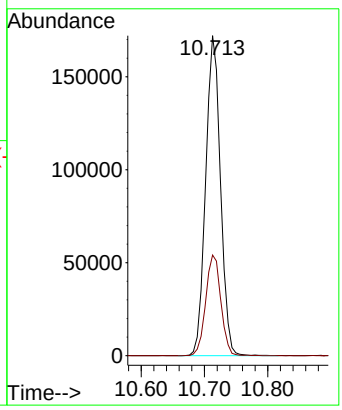





#57
1,3-Dichloropropane
Concen: 49.259 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 76 Resp: 28012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.2 | 26.0 | 39.0 |

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VSTDCCC050EC

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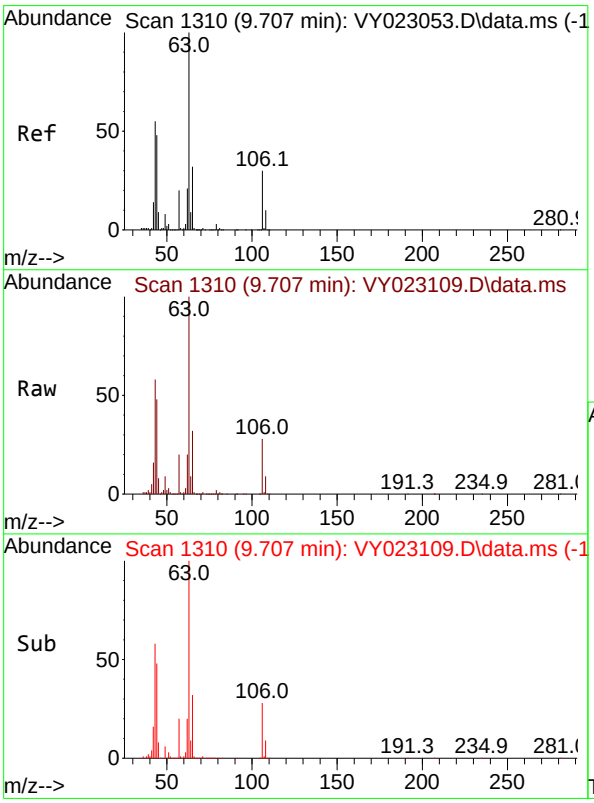
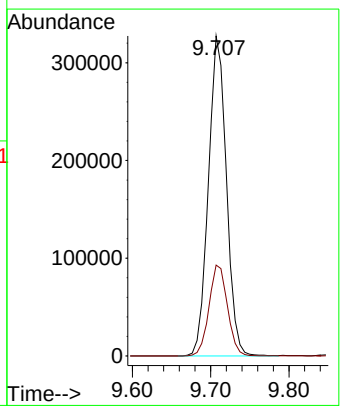
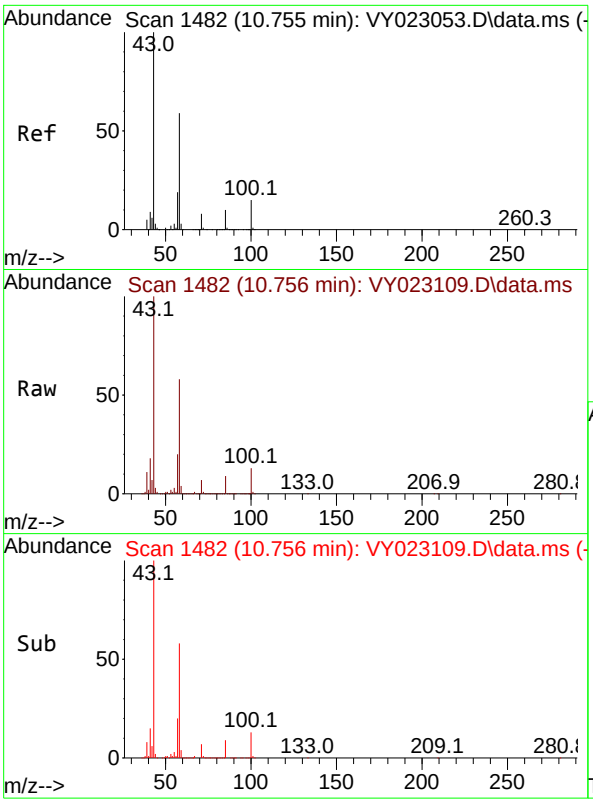



#58
2-Chloroethyl Vinyl ether
Concen: 258.207 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 63 Resp: 522597

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 29.1 | 23.2 | 34.8 |






#59
2-Hexanone
Concen: 233.670 ug/l
RT: 10.756 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 43 Resp: 42900

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 58.2 | 29.5 | 88.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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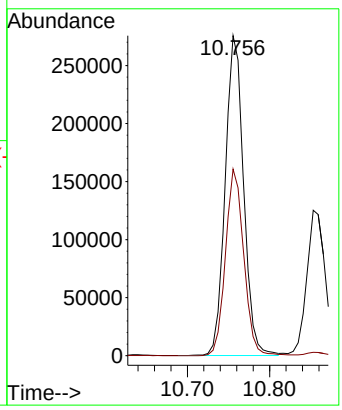
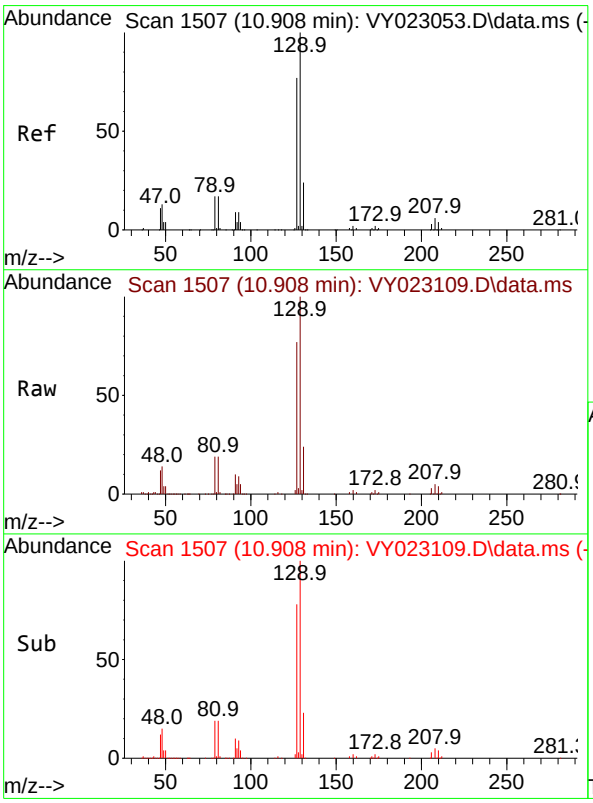
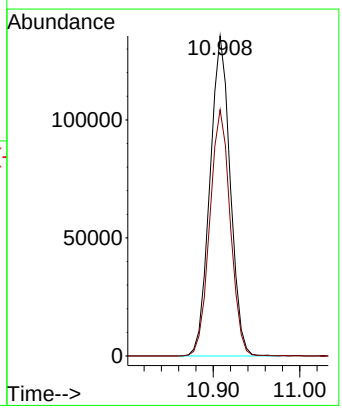


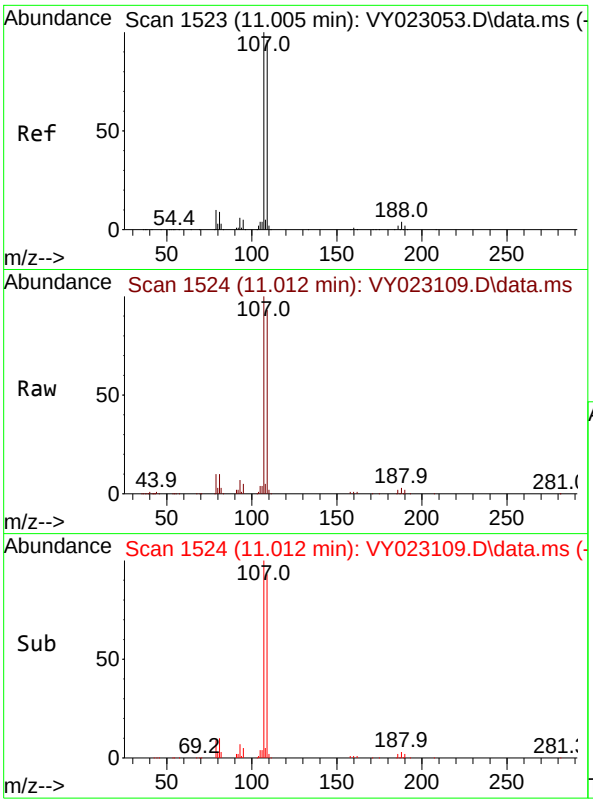




#60
Dibromochloromethane
Concen: 49.847 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:129 Resp: 220549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.7 | 38.5 | 115.5 |

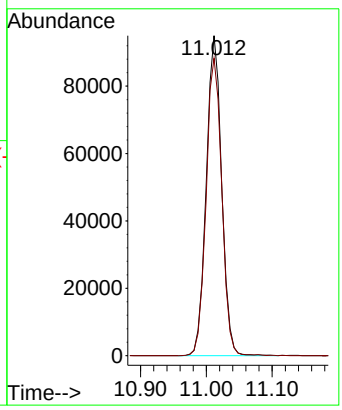





#61
1,2-Dibromoethane
Concen: 49.026 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:107 Resp: 15451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.7 | 75.6 | 113.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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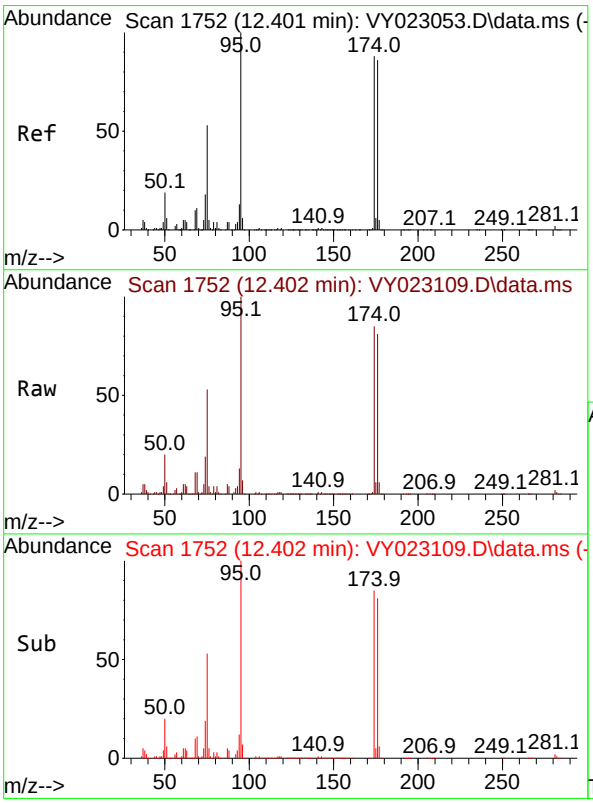
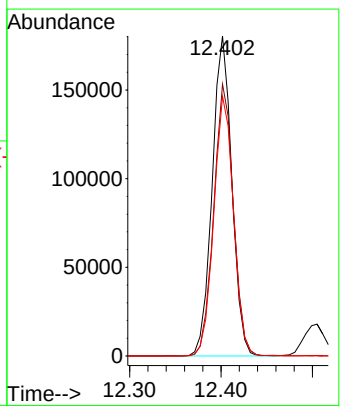
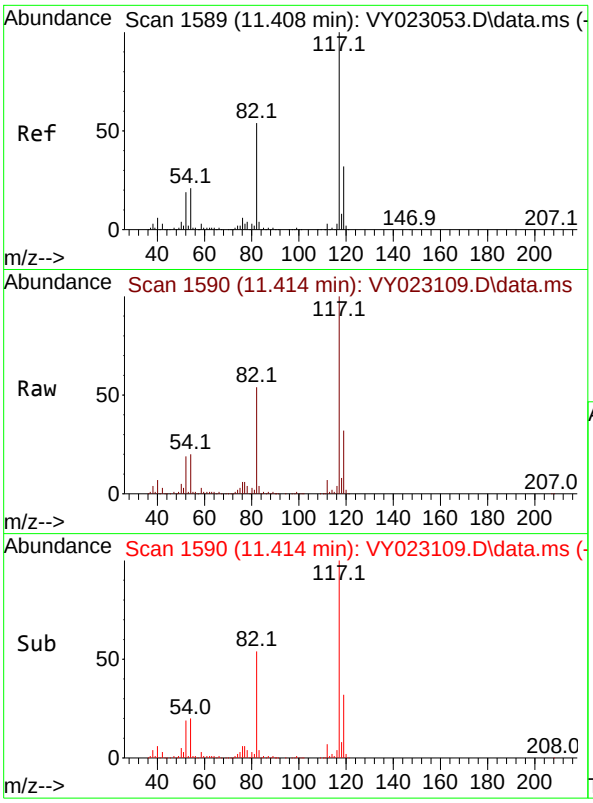



#62
4-Bromofluorobenzene
Concen: 51.660 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 95 Resp: 268864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 85.1 | 0.0 | 171.6 |
| 176 | 81.8 | 0.0 | 167.6 |

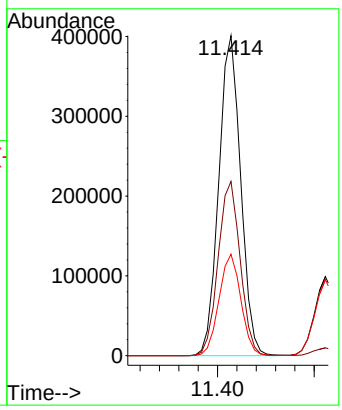





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:117 Resp: 62904

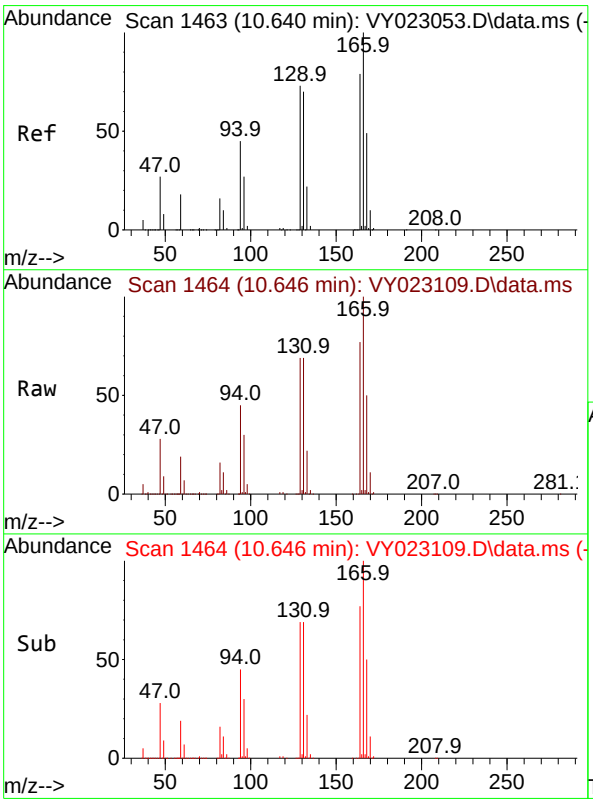
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.4 | 43.4 | 65.0 |
| 119 | 31.7 | 25.6 | 38.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

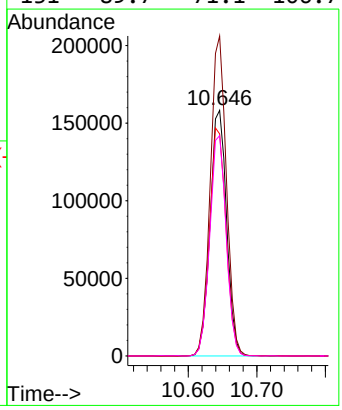
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

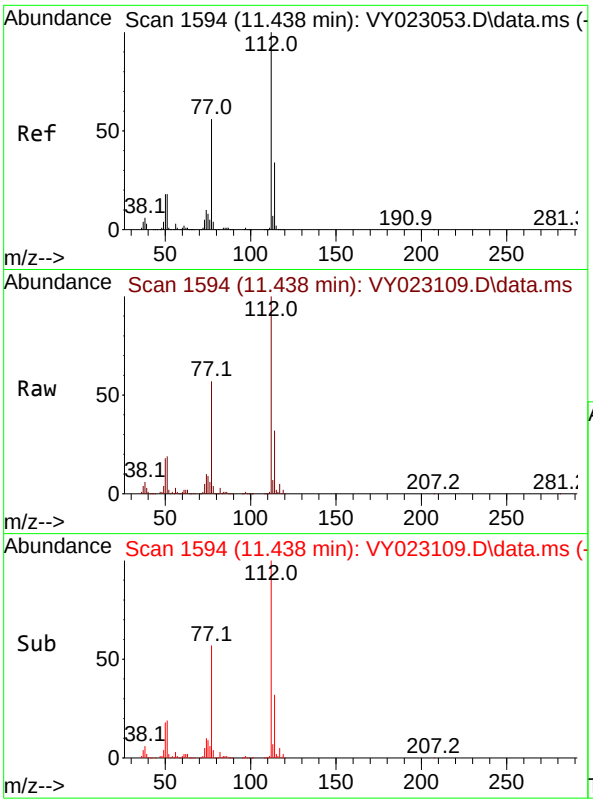



#64
Tetrachloroethene
Concen: 47.178 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:164 Resp: 264997

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 130.3 | 101.1 | 151.7 |
| 129 | 90.4 | 74.0 | 111.0 |
| 131 | 89.7 | 71.1 | 106.7 |

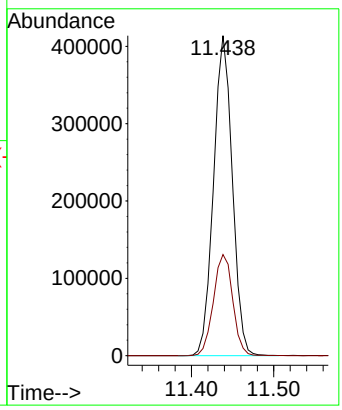





#65
Chlorobenzene
Concen: 48.335 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:112 Resp: 65583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.6 | 27.0 | 40.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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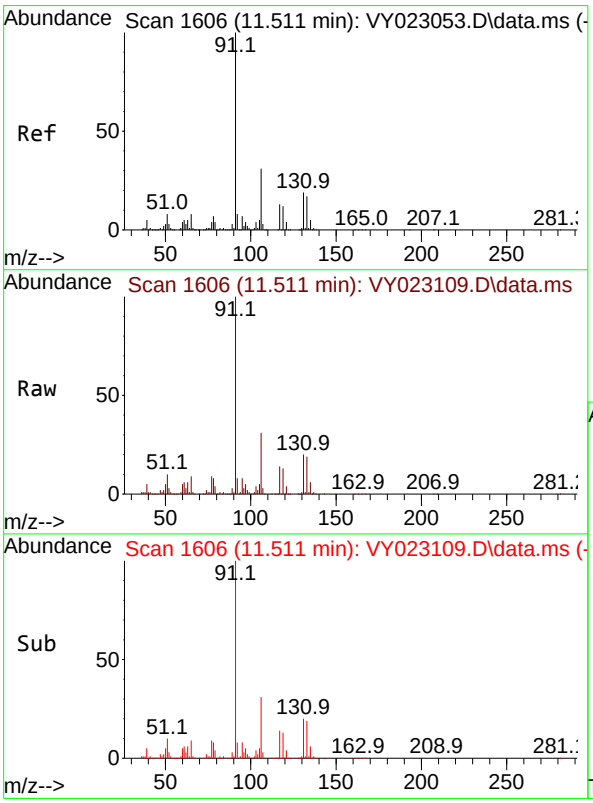
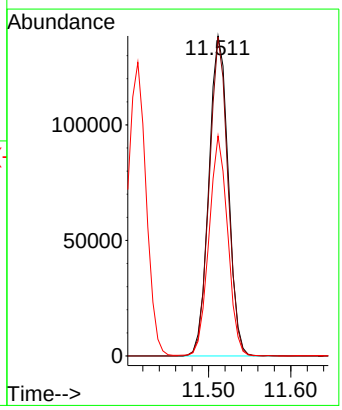
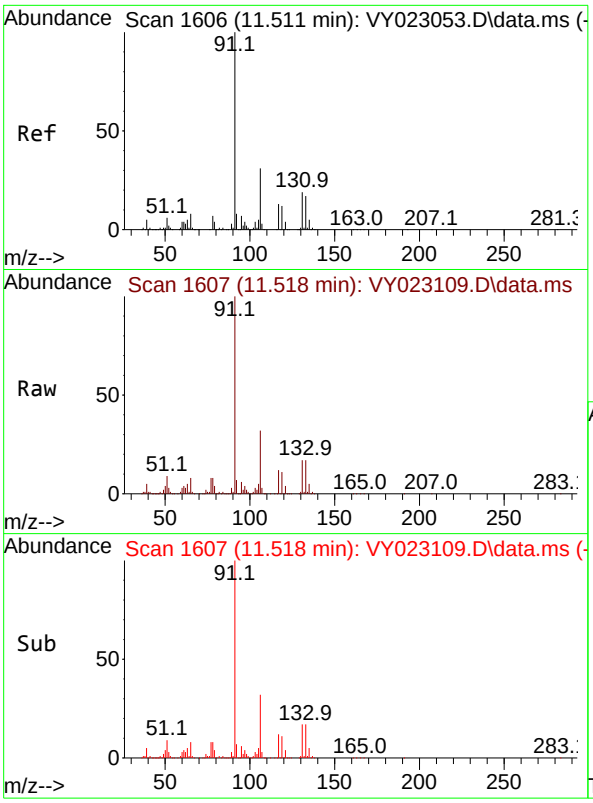



#66
1,1,1,2-Tetrachloroethane
Concen: 49.184 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:131 Resp: 226496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 96.0 | 46.9 | 140.6 |
| 119 | 66.5 | 33.2 | 99.6 |

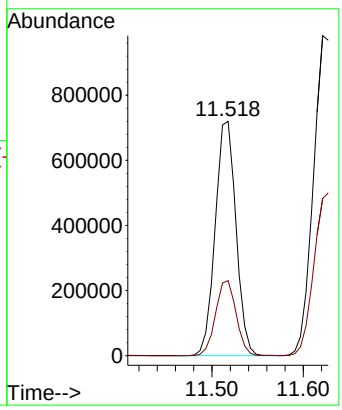





#67
Ethyl Benzene
Concen: 48.775 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 91 Resp: 113890

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 32.0 | 25.0 | 37.4 |




**Instrument :**
MSVOA_Y
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VSTDCCC050EC

**Manual Integrations**
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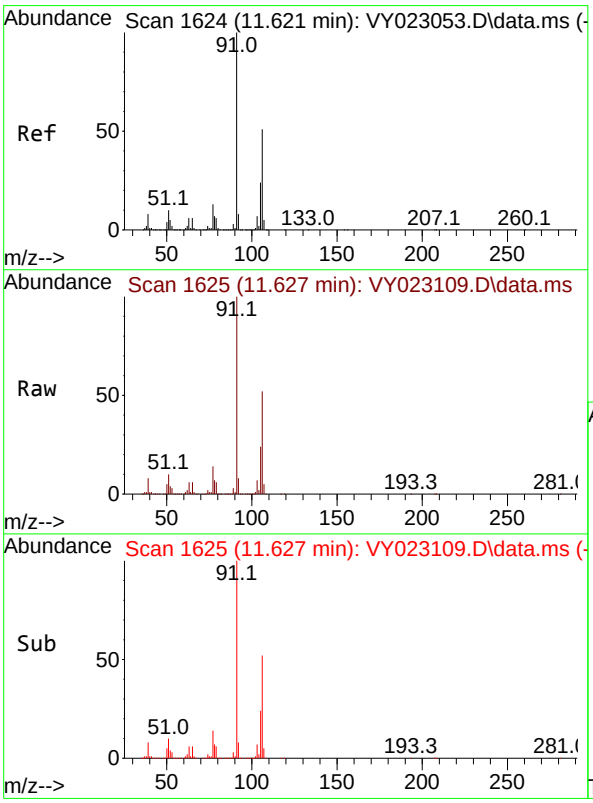
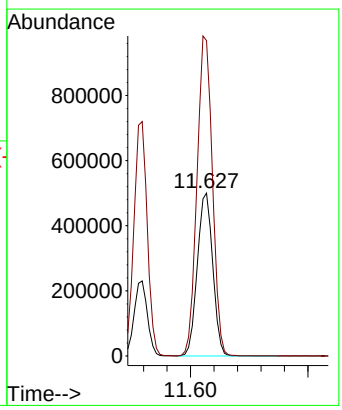
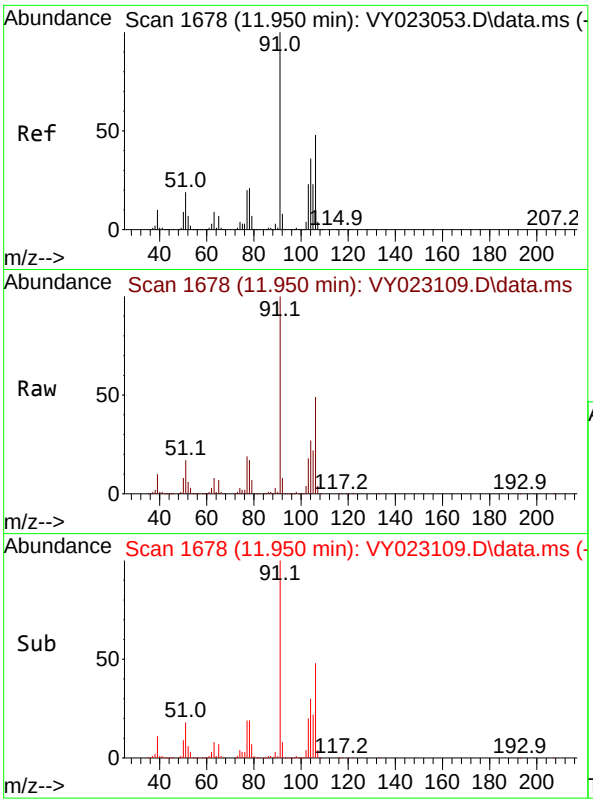



#68
m/p-Xylenes
Concen: 99.829 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:106 Resp: 910415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 196.9 | 158.6 | 238.0 |






#69
o-Xylene
Concen: 50.504 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:106 Resp: 43138

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 204.3 | 103.2 | 309.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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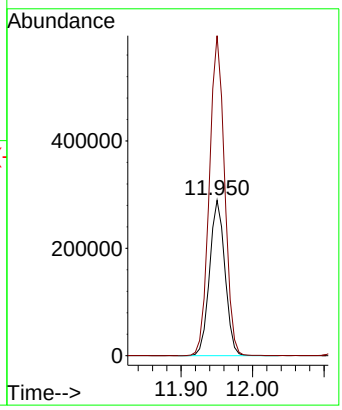
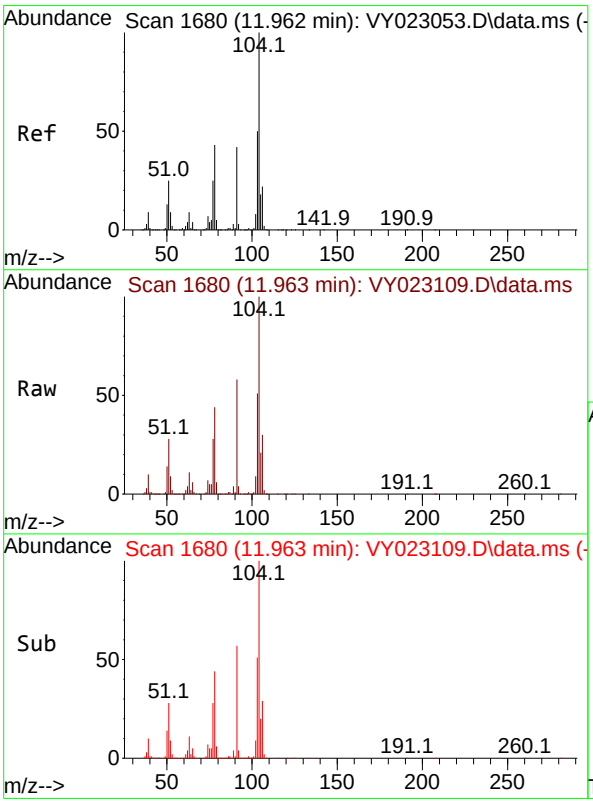
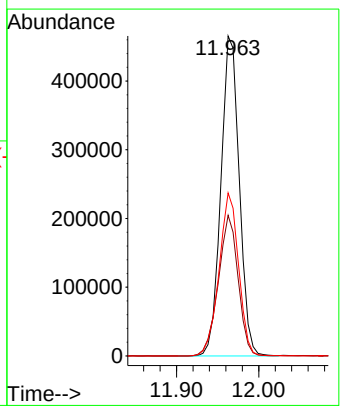


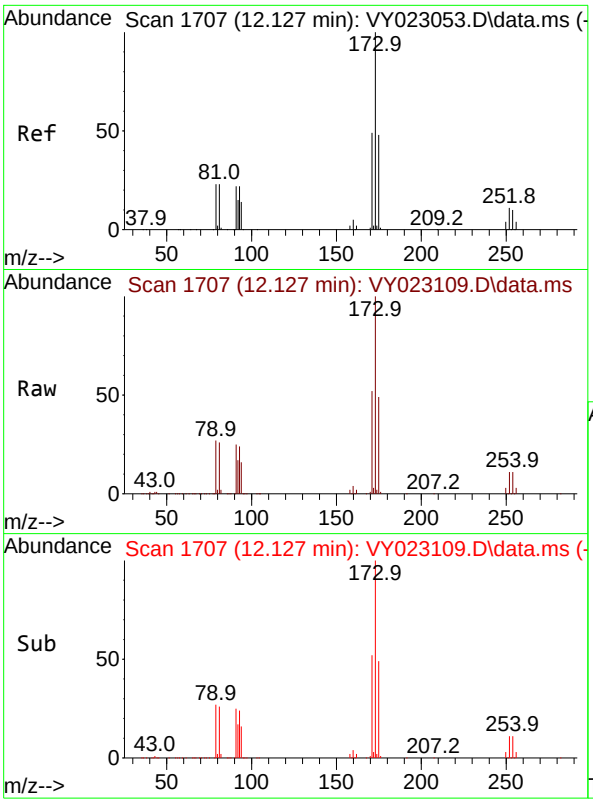




#70
Styrene
Concen: 51.783 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:104 Resp: 723332

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 47.3 | 38.5 | 57.7 |
| 103 | 54.1 | 43.7 | 65.5 |

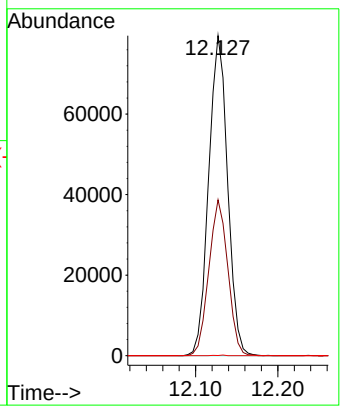





#71
Bromoform
Concen: 47.255 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:173 Resp: 12718

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.9 | 23.9 | 71.7 |
| 254 | 0.1 | 0.1 | 0.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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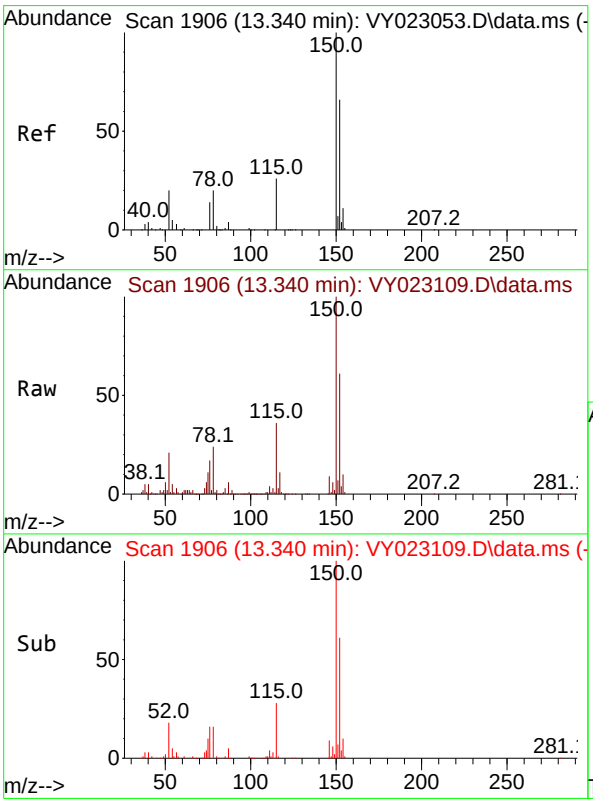
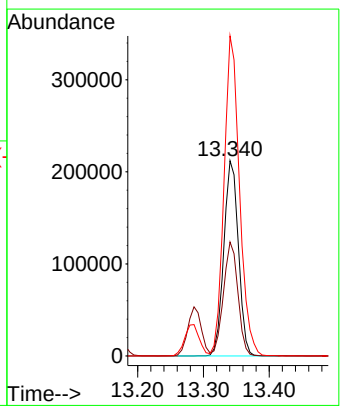
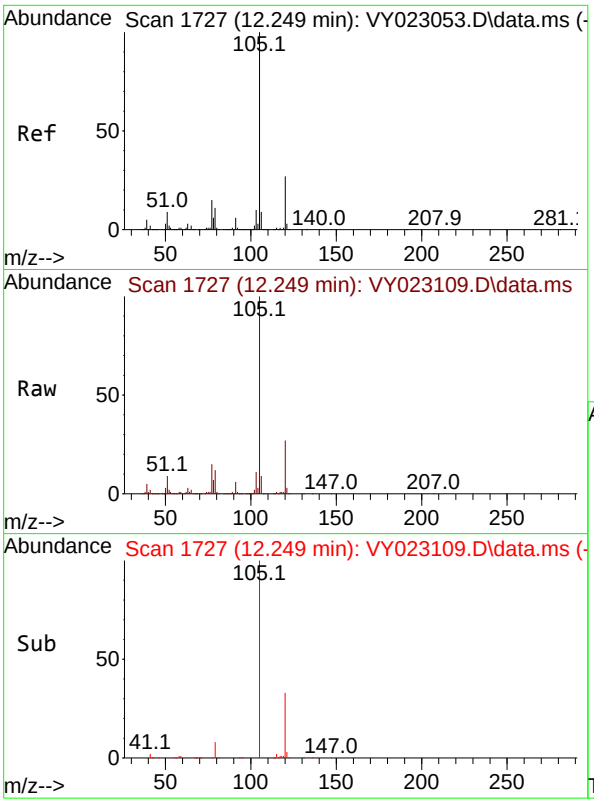



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:152 Resp: 327747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.7 | 28.2 | 84.6 |
| 150 | 173.7 | 0.0 | 348.0 |

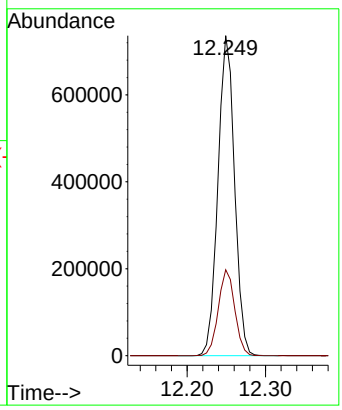





#73
Isopropylbenzene
Concen: 46.938 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:105 Resp: 108576

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.6 | 13.4 | 40.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
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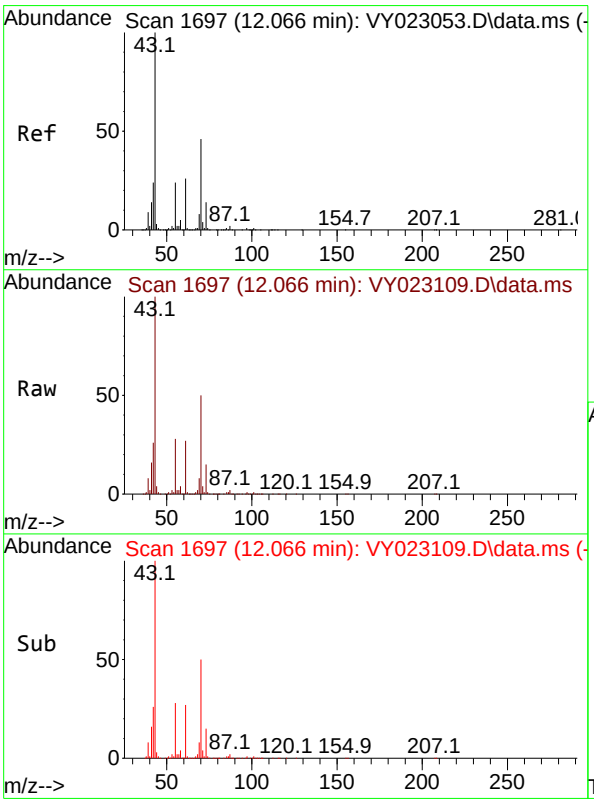
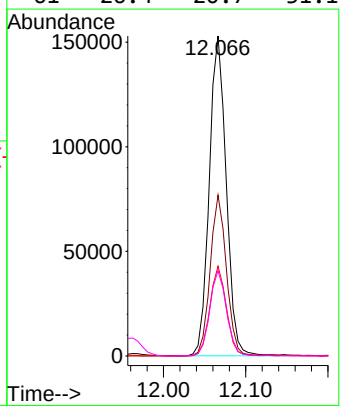
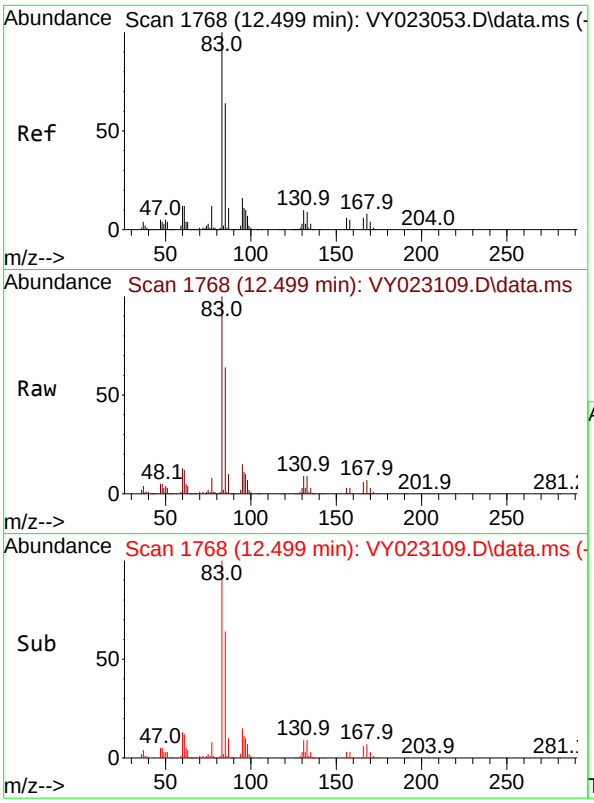



#74
N-amyl acetate
Concen: 44.606 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 43 Resp: 218818

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 48.4 | 37.5 | 56.3 |
| 55 | 27.2 | 20.7 | 31.1 |
| 61 | 26.4 | 20.7 | 31.1 |

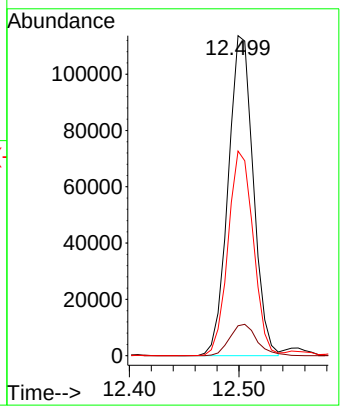





#75
1,1,2,2-Tetrachloroethane
Concen: 45.802 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 83 Resp: 18090

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.6 | 5.1 | 15.3 |
| 85 | 64.5 | 31.8 | 95.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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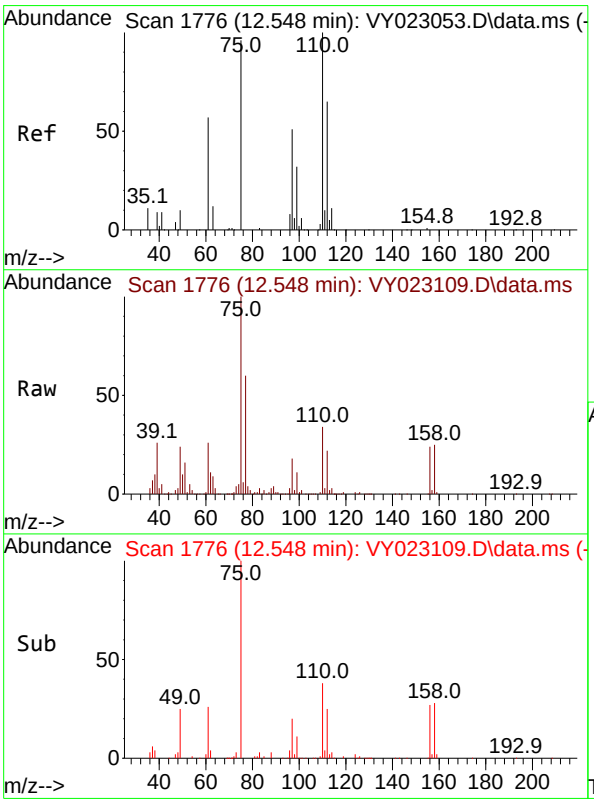
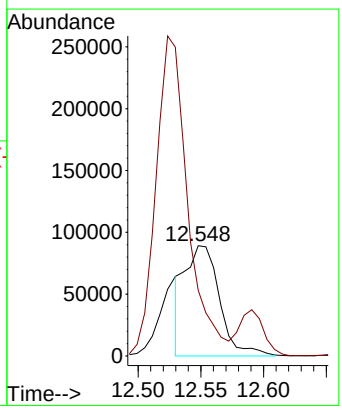
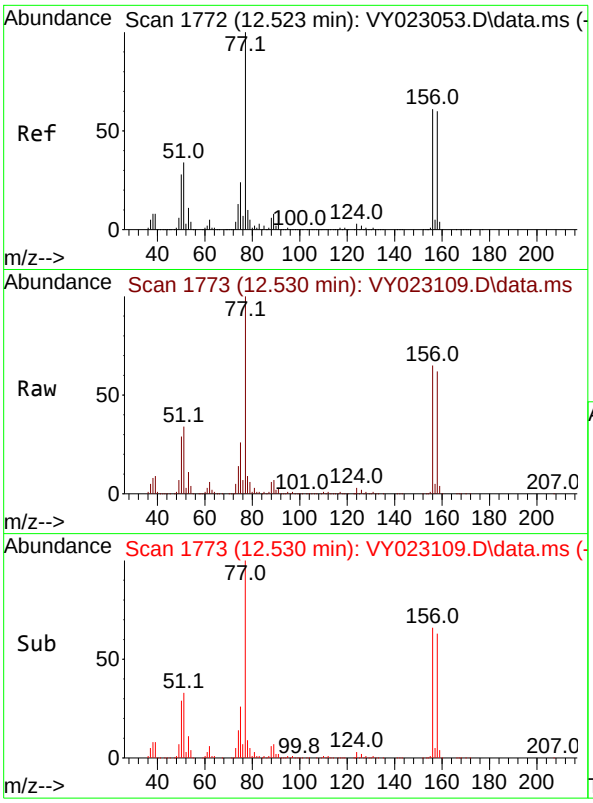



#76
1,2,3-Trichloropropane
Concen: 54.526 ug/l m
RT: 12.548 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 75 Resp: 172472

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |

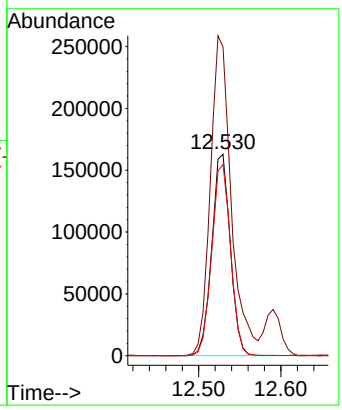





#77
Bromobenzene
Concen: 46.165 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:156 Resp: 25476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 179.4 | 88.1 | 264.4 |
| 158 | 96.6 | 48.0 | 144.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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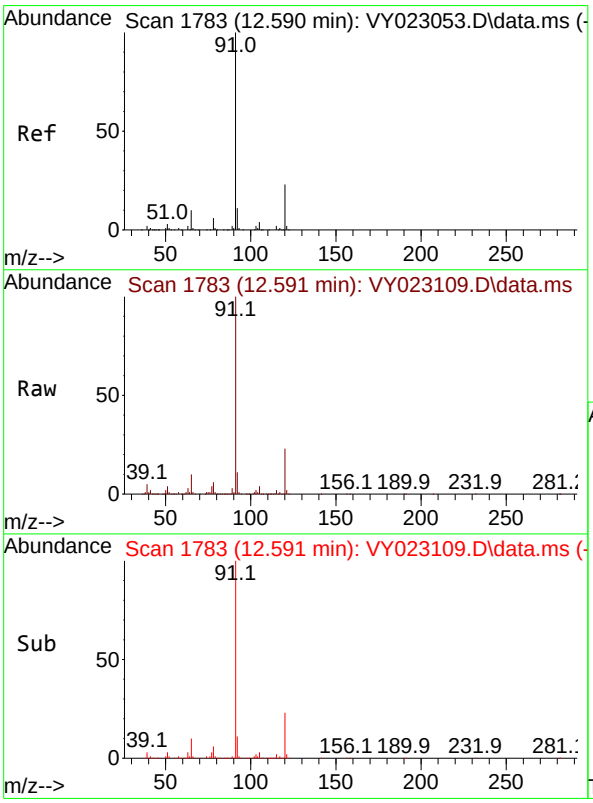
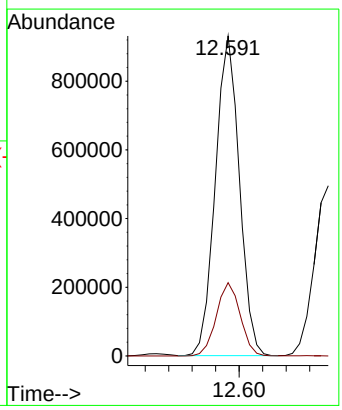
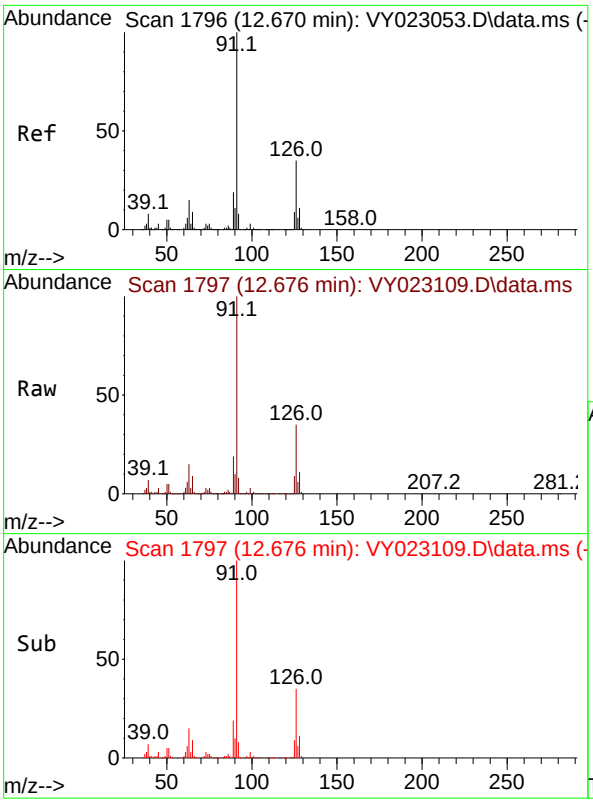



#78
n-propylbenzene
Concen: 47.987 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 91 Resp: 1321560

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.8 | 11.5 | 34.5 |






#79
2-Chlorotoluene
Concen: 47.529 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 91 Resp: 74998

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.7 | 17.4 | 52.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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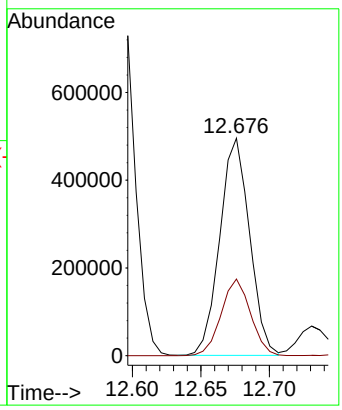
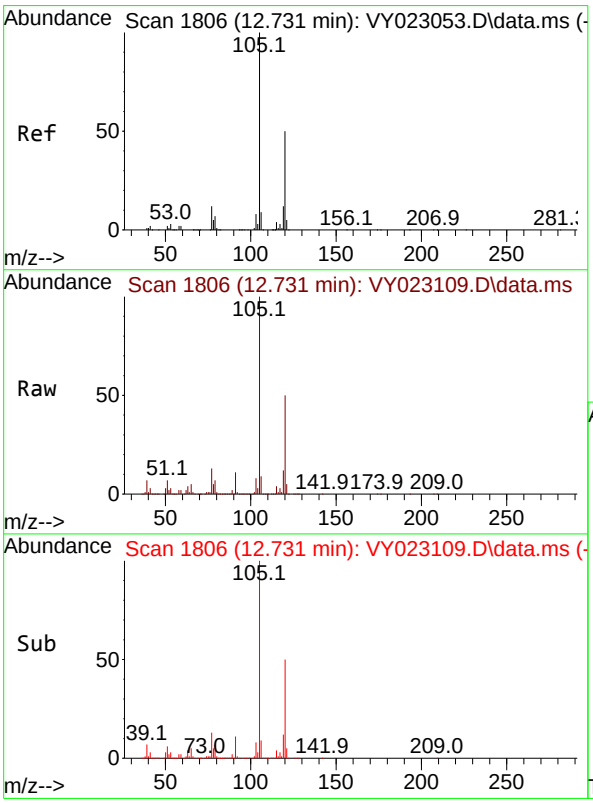
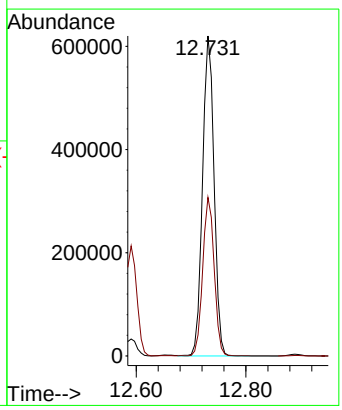


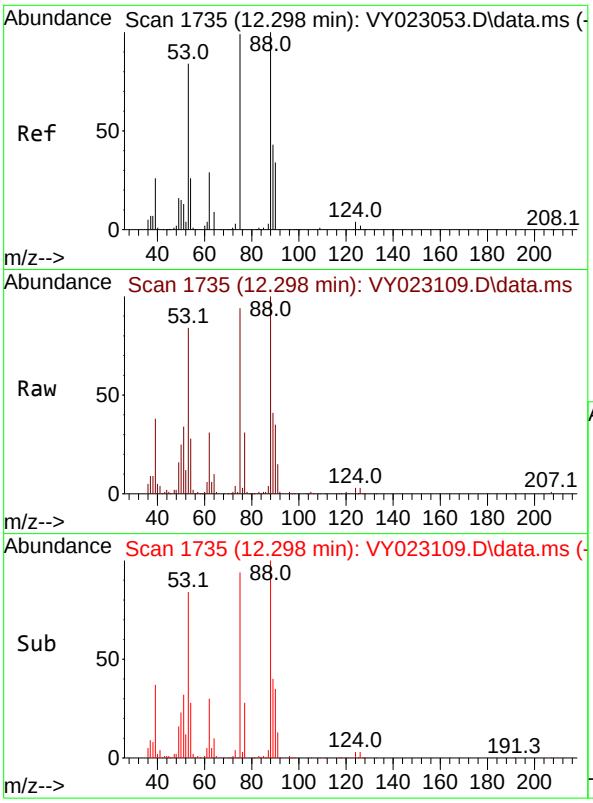




#80
1,3,5-Trimethylbenzene
Concen: 48.207 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:105 Resp: 901239

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.5 | 24.8 | 74.4 |






#81
trans-1,4-Dichloro-2-butene
Concen: 39.770 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

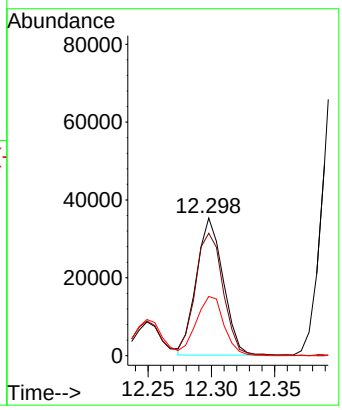
Tgt Ion: 75 Resp: 5196

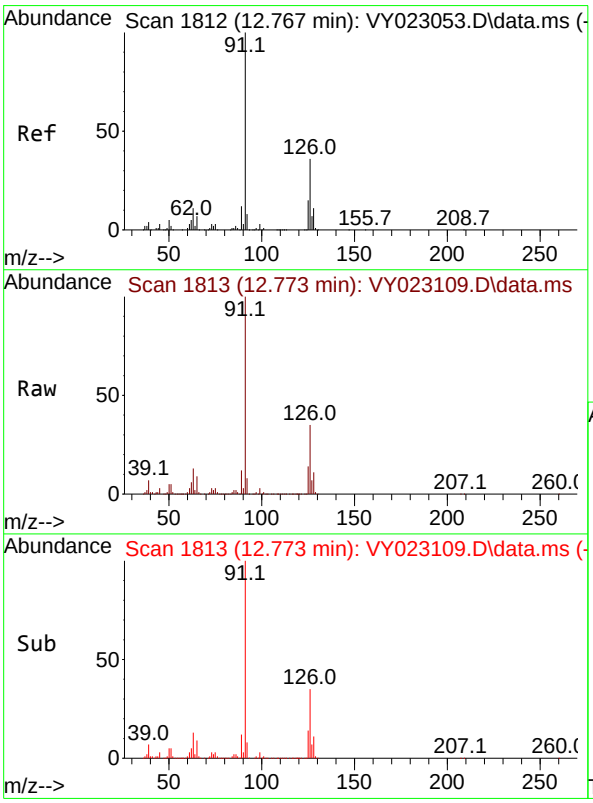
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 94.6 | 70.8 | 106.2 |
| 89 | 44.8 | 38.1 | 57.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

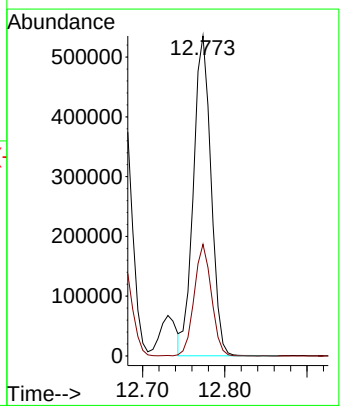


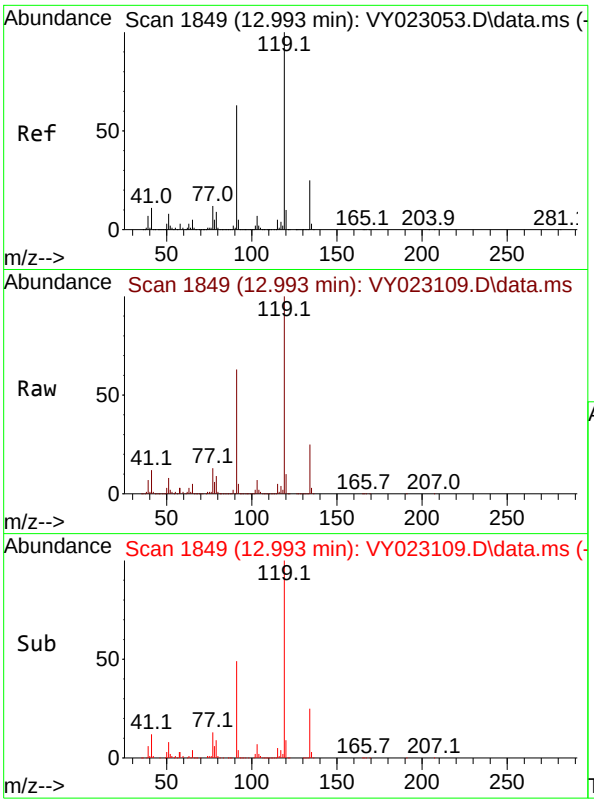




#82
4-Chlorotoluene
Concen: 48.521 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 91 Resp: 794254

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.2 | 17.3 | 52.0 |






#83
tert-Butylbenzene
Concen: 47.072 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:119 Resp: 79481

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 63.6 | 31.6 | 94.8 |
| 134 | 26.3 | 12.9 | 38.7 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

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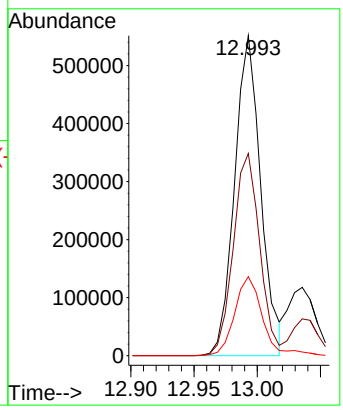
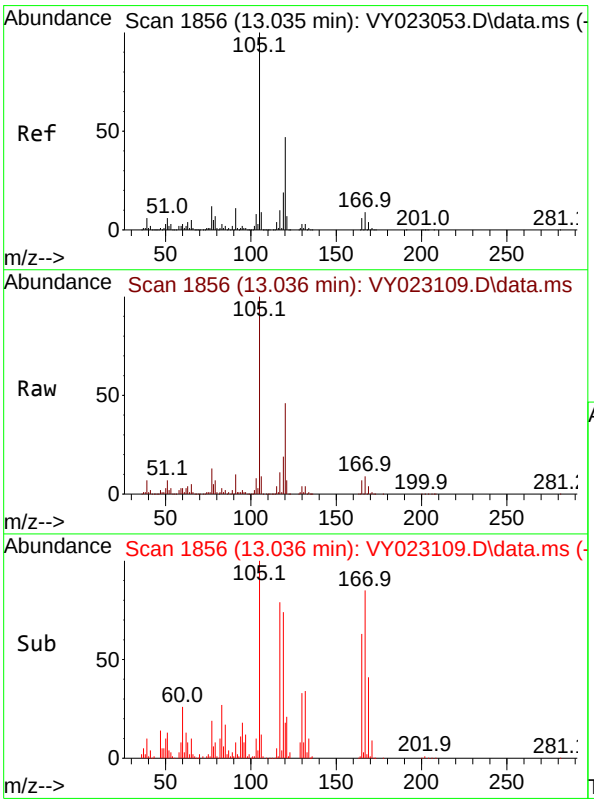
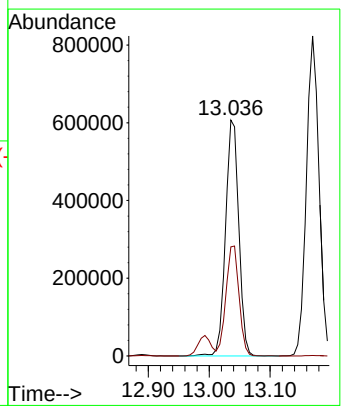


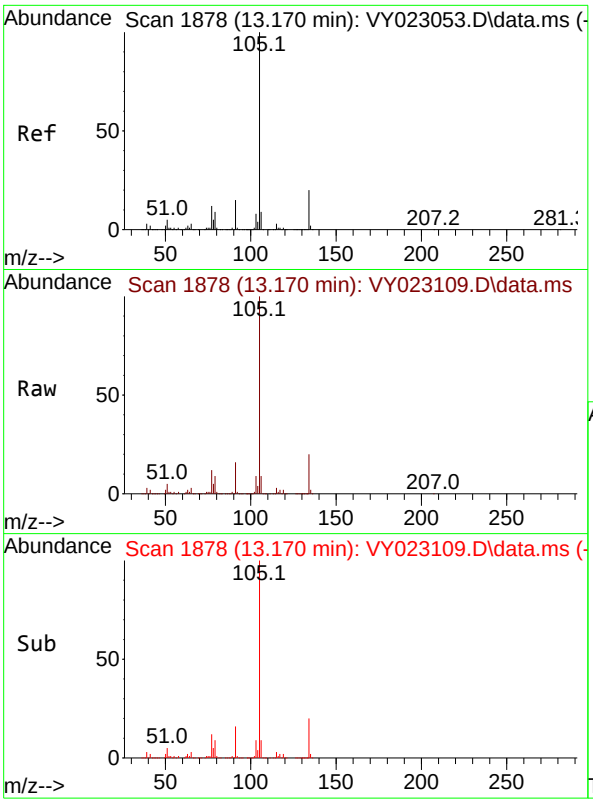




#84
1,2,4-Trimethylbenzene
Concen: 49.211 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:105 Resp: 915823

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.1 | 23.0 | 69.0 |






#85
sec-Butylbenzene
Concen: 47.812 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:105 Resp: 118589

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.2 | 10.2 | 30.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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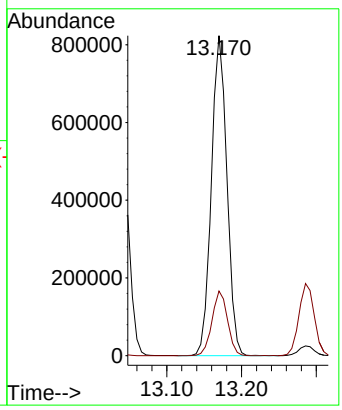
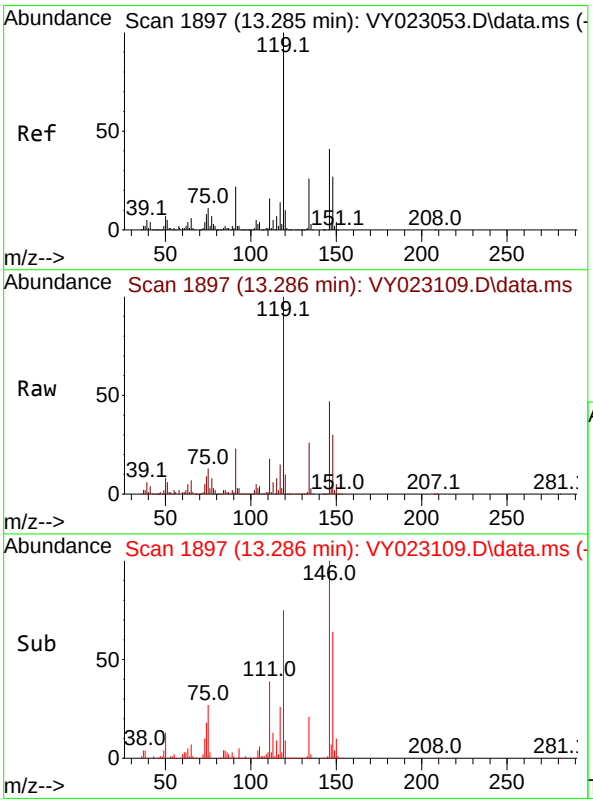
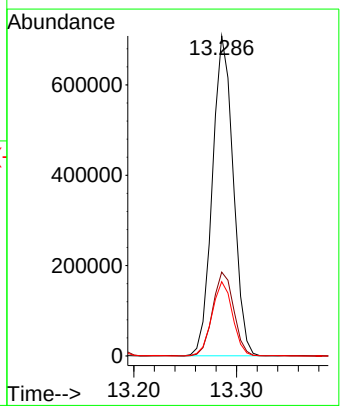


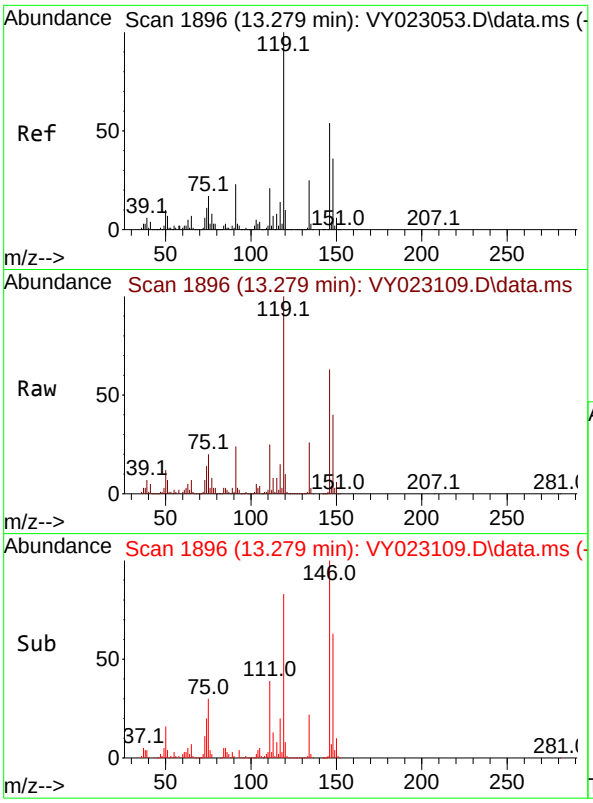




#86
p-Isopropyltoluene
Concen: 48.457 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:119 Resp: 997638

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.5 | 13.2 | 39.6 |
| 91 | 23.0 | 11.3 | 33.8 |

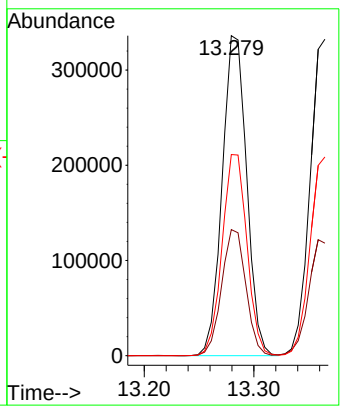





#87
1,3-Dichlorobenzene
Concen: 47.944 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:146 Resp: 52176

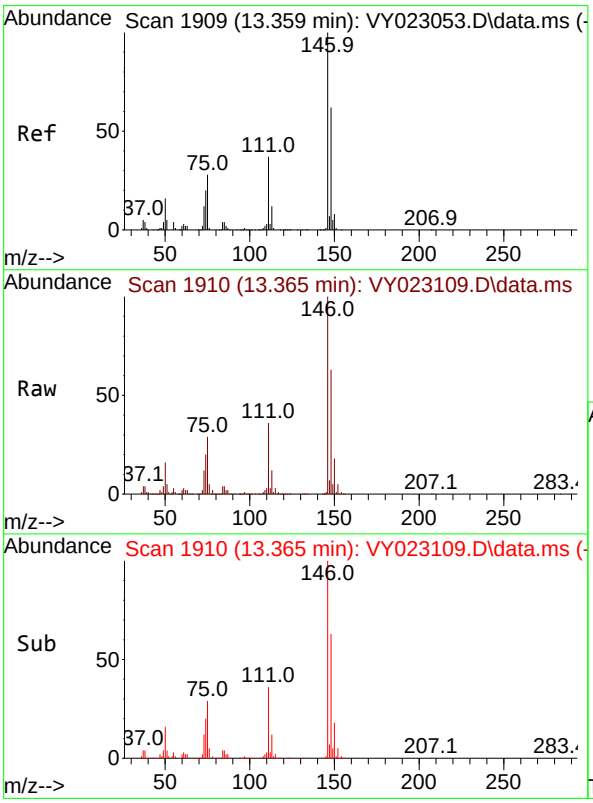
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.1 | 19.6 | 58.7 |
| 148 | 63.8 | 32.5 | 97.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

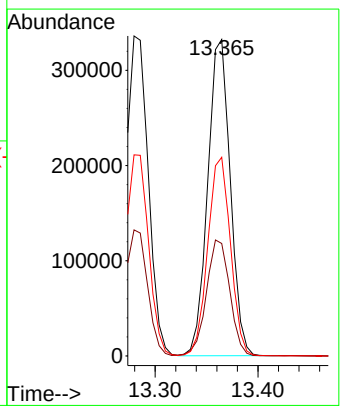
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

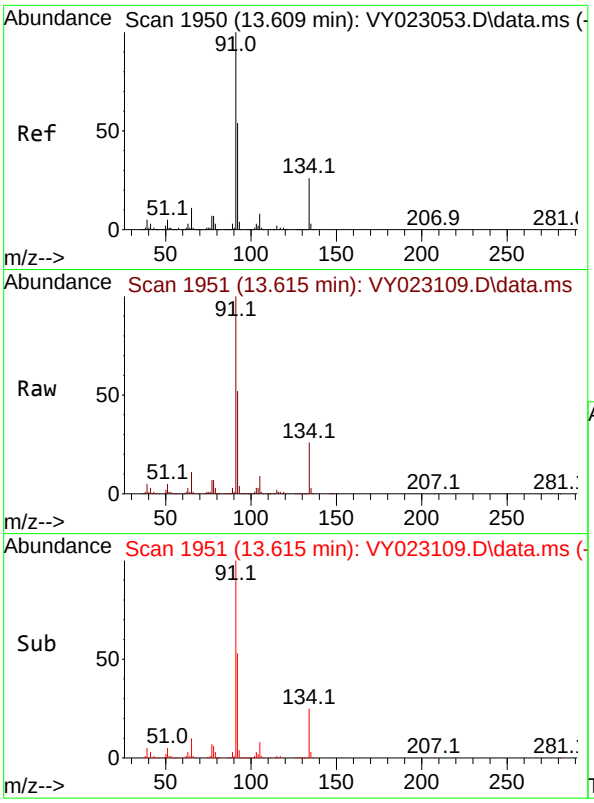



#88
1,4-Dichlorobenzene
Concen: 46.877 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:146 Resp: 506066

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.3 | 19.1 | 57.1 |
| 148 | 63.4 | 31.6 | 94.7 |

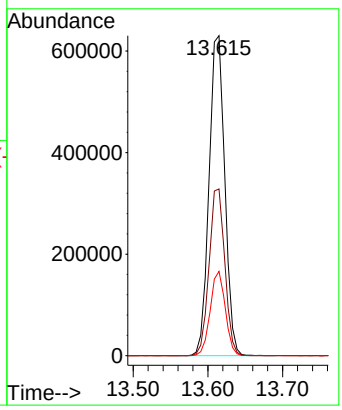





#89
n-Butylbenzene
Concen: 48.761 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 91 Resp: 92202

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.1 | 26.9 | 80.7 |
| 134 | 25.2 | 13.2 | 39.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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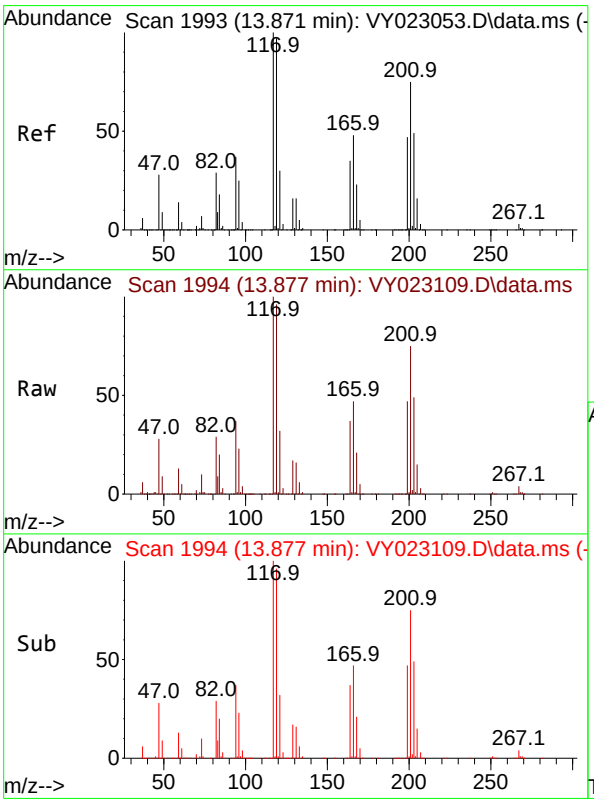
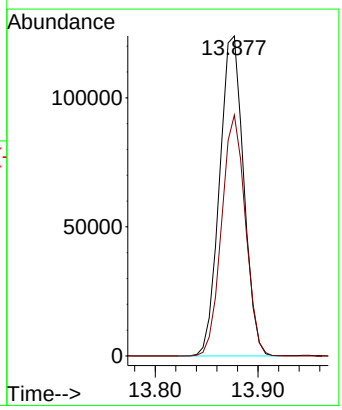
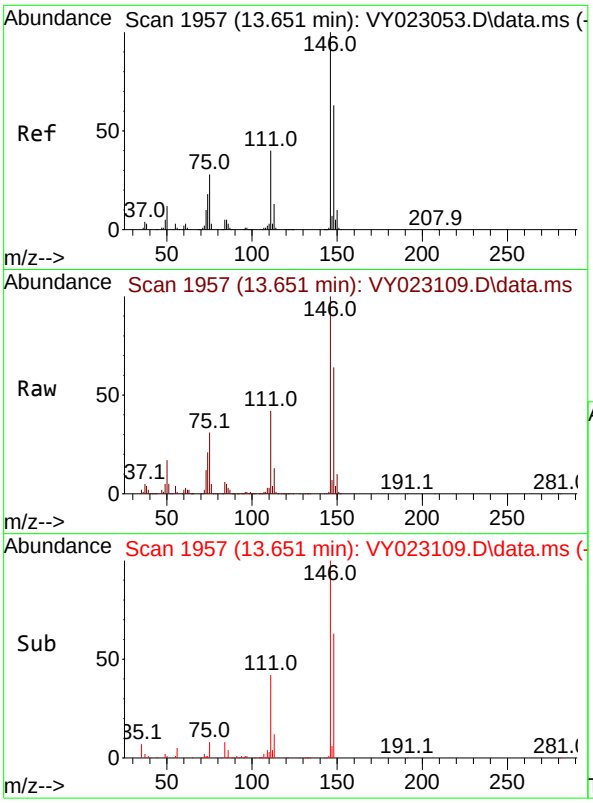



#90
Hexachloroethane
Concen: 47.944 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:117 Resp: 202066

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 74.1 | 38.4 | 115.1 |

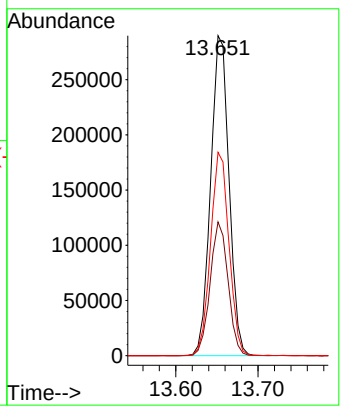





#91
1,2-Dichlorobenzene
Concen: 47.139 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:146 Resp: 44990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.9 | 20.3 | 60.8 |
| 148 | 63.8 | 32.2 | 96.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

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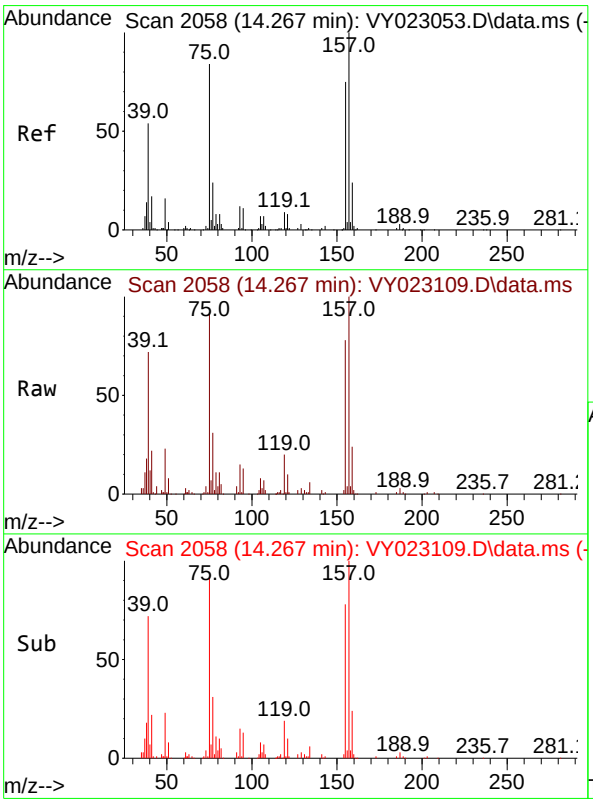
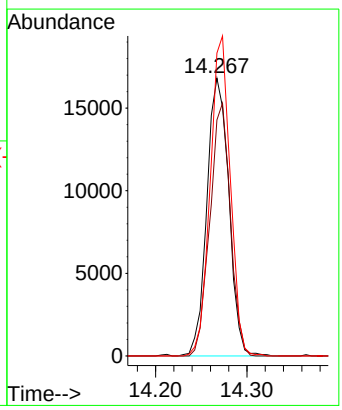
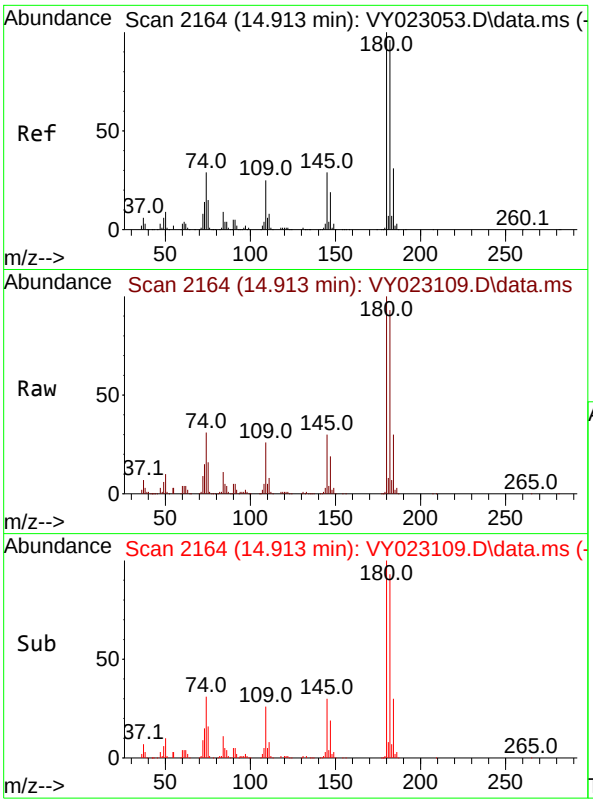



#92
1,2-Dibromo-3-Chloropropane
Concen: 45.509 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 75 Resp: 27986

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 85.1 | 43.9 | 131.6 |
| 157 | 105.7 | 57.2 | 171.6 |






#93
1,2,4-Trichlorobenzene
Concen: 44.744 ug/l
RT: 14.913 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:180 Resp: 25254

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.4 | 46.8 | 140.4 |
| 145 | 29.5 | 14.4 | 43.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

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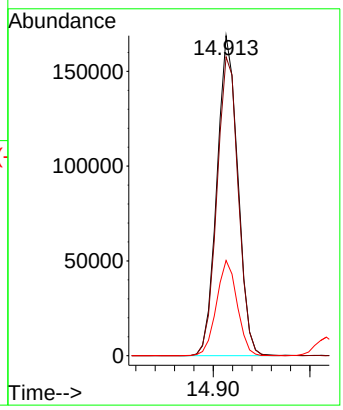
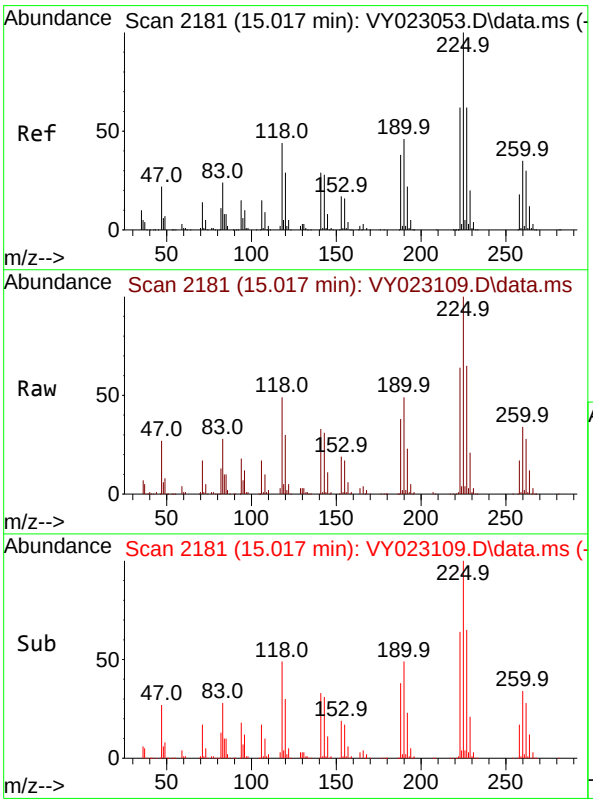
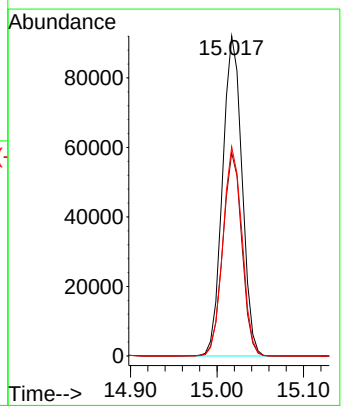


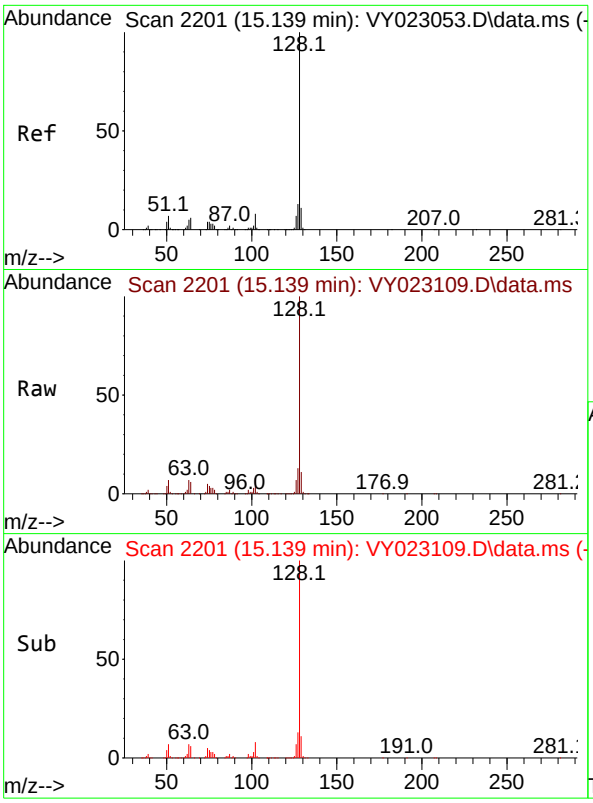




#94
Hexachlorobutadiene
Concen: 43.304 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:225 Resp: 143621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.0 | 31.3 | 93.8 |
| 227 | 64.1 | 31.5 | 94.5 |

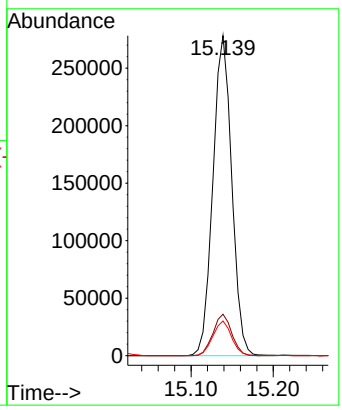





#95
Naphthalene
Concen: 46.067 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:128 Resp: 44336

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.9 | 10.4 | 15.6 |
| 129 | 10.8 | 9.0 | 13.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

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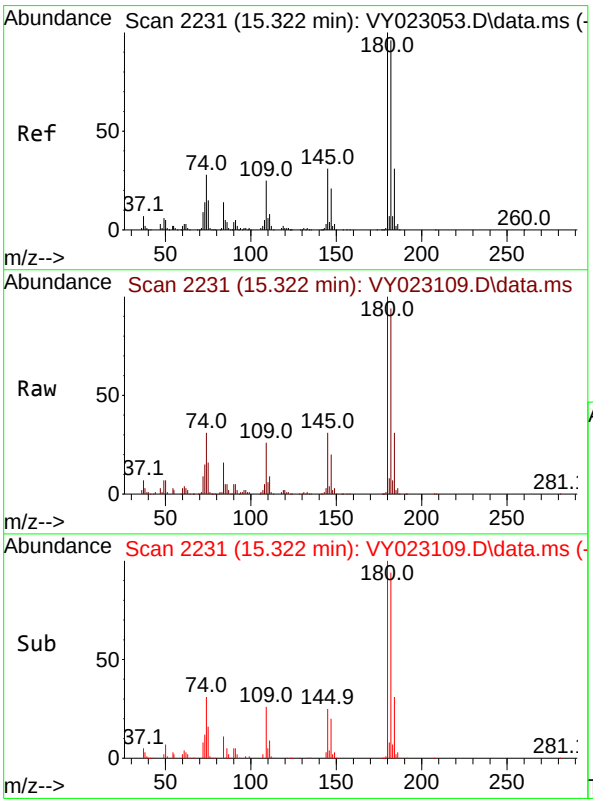
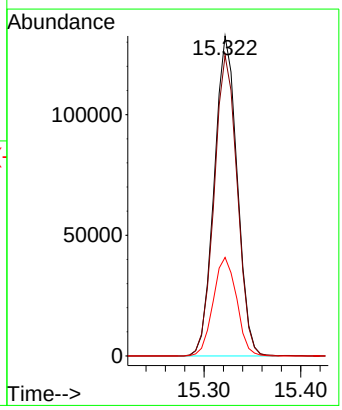



#96
1,2,3-Trichlorobenzene
Concen: 44.896 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:180 Resp: 218352

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.6 | 47.9 | 143.7 |
| 145 | 31.4 | 15.9 | 47.7 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023109.D
Acq On : 14 Aug 2025 20:38
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 27 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Aug 18 01:32:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 77 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.408 | 0.306 | 25.0 | 68 | 0.00 |
| 3 | P | Chloromethane | 0.661 | 0.669 | -1.2 | 85 | 0.00 |
| 4 | C | Vinyl Chloride | 0.817 | 0.871 | -6.6# | 87 | 0.00 |
| 5 | T | Bromomethane | 0.610 | 0.684 | -12.1 | 98 | 0.00 |
| 6 | T | Chloroethane | 0.543 | 0.616 | -13.4 | 92 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.994 | 0.944 | 5.0 | 78 | 0.00 |
| 8 | T | Diethyl Ether | 0.263 | 0.246 | 6.5 | 76 | 0.01 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.490 | 0.445 | 9.2 | 74 | 0.01 |
| 10 | T | Methyl Iodide | 0.529 | 0.553 | -4.5 | 78 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.033 | 0.029 | 12.1 | 70 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.482 | 0.449 | 6.8# | 75 | 0.00 |
| 13 | T | Acrolein | 0.048 | 0.029 | 39.6# | 49# | 0.00 |
| 14 | T | Allyl chloride | 0.709 | 0.651 | 8.2 | 73 | 0.00 |
| 15 | T | Acrylonitrile | 0.107 | 0.103 | 3.7 | 75 | 0.00 |
| 16 | T | Acetone | 0.103 | 0.075 | 27.2# | 56 | 0.01 |
| 17 | T | Carbon Disulfide | 1.571 | 1.453 | 7.5 | 75 | 0.00 |
| 18 | T | Methyl Acetate | 0.307 | 0.317 | -3.3 | 76 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.249 | 1.233 | 1.3 | 77 | 0.00 |
| 20 | T | Methylene Chloride | 0.620 | 0.545 | 12.1 | 82 | 0.01 |
| 21 | T | trans-1,2-Dichloroethene | 0.541 | 0.528 | 2.4 | 78 | 0.01 |
| 22 | T | Diisopropyl ether | 1.541 | 1.556 | -1.0 | 79 | 0.00 |
| 23 | T | Vinyl Acetate | 0.852 | 0.811 | 4.8 | 74 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 0.942 | 0.954 | -1.3 | 80 | 0.00 |
| 25 | T | 2-Butanone | 0.140 | 0.124 | 11.4 | 67 | 0.01 |
| 26 | T | 2,2-Dichloropropane | 0.813 | 0.679 | 16.5 | 66 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.626 | 0.631 | -0.8 | 80 | 0.00 |
| 28 | T | Bromochloromethane | 0.374 | 0.376 | -0.5 | 80 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.087 | 0.082 | 5.7 | 73 | 0.00 |
| 30 | C | Chloroform | 0.971 | 1.010 | -4.0# | 83 | 0.00 |
| 31 | T | Cyclohexane | 0.888 | 0.781 | 12.0 | 74 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.862 | 0.864 | -0.2 | 80 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.477 | 0.514 | -7.8 | 86 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 81 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.299 | 0.303 | -1.3 | 84 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.445 | 0.420 | 5.6 | 78 | 0.00 |
| 37 | T | Ethyl Acetate | 0.187 | 0.171 | 8.6 | 74 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.483 | 0.455 | 5.8 | 79 | 0.00 |
| 39 | T | Methylcyclohexane | 0.586 | 0.539 | 8.0 | 77 | 0.00 |
| 40 | TM | Benzene | 1.370 | 1.362 | 0.6 | 82 | 0.00 |
| 41 | T | Methacrylonitrile | 0.108 | 0.092 | 14.8 | 68 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.356 | 0.355 | 0.3 | 83 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.378 | 0.354 | 6.3 | 77 | 0.00 |
| 44 | TM | Trichloroethene | 0.354 | 0.336 | 5.1 | 80 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.315 | 0.317 | -0.6# | 83 | 0.00 |
| 46 | T | Dibromomethane | 0.181 | 0.182 | -0.6 | 82 | 0.00 |
| 47 | T | Bromodichloromethane | 0.466 | 0.478 | -2.6 | 84 | 0.00 |
| 48 | T | Methyl methacrylate | 0.181 | 0.168 | 7.2 | 72 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023109.D
Acq On : 14 Aug 2025 20:38
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 27 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Aug 18 01:32:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 0.002 | 0.002 | 0.0 | 78 | 0.00 |
| 50 | S | Toluene-d8 | 1.169 | 1.191 | -1.9 | 84 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.195 | 0.187 | 4.1 | 76 | 0.00 |
| 52 | CM | Toluene | 0.870 | 0.879 | -1.0# | 83 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.422 | 0.405 | 4.0 | 78 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.499 | 0.481 | 3.6 | 78 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.242 | 0.238 | 1.7 | 81 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.310 | 0.306 | 1.3 | 77 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.411 | 0.405 | 1.5 | 81 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.146 | 0.151 | -3.4 | 79 | 0.00 |
| 59 | T | 2-Hexanone | 0.133 | 0.124 | 6.8 | 73 | 0.00 |
| 60 | T | Dibromochloromethane | 0.320 | 0.319 | 0.3 | 81 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.228 | 0.223 | 2.2 | 80 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.376 | 0.388 | -3.2 | 85 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 84 | 0.00 |
| 64 | T | Tetrachloroethene | 0.446 | 0.421 | 5.6 | 81 | 0.00 |
| 65 | PM | Chlorobenzene | 1.079 | 1.043 | 3.3 | 83 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.366 | 0.360 | 1.6 | 83 | 0.00 |
| 67 | C | Ethyl Benzene | 1.856 | 1.811 | 2.4# | 81 | 0.00 |
| 68 | T | m/p-Xylenes | 0.725 | 0.724 | 0.1 | 84 | 0.00 |
| 69 | T | o-Xylene | 0.679 | 0.686 | -1.0 | 84 | 0.00 |
| 70 | T | Styrene | 1.110 | 1.150 | -3.6 | 86 | 0.00 |
| 71 | P | Bromoform | 0.214 | 0.202 | 5.6 | 79 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 87 | 0.00 |
| 73 | T | Isopropylbenzene | 3.529 | 3.313 | 6.1 | 82 | 0.00 |
| 74 | T | N-amyl acetate | 0.748 | 0.668 | 10.7 | 75 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.603 | 0.552 | 8.5 | 82 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.483 | 0.526 | -8.9 | 85 | 0.00 |
| 77 | T | Bromobenzene | 0.842 | 0.777 | 7.7 | 81 | 0.00 |
| 78 | T | n-propylbenzene | 4.201 | 4.032 | 4.0 | 83 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.407 | 2.288 | 4.9 | 83 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.852 | 2.750 | 3.6 | 83 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.199 | 0.159 | 20.1 | 70 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.497 | 2.423 | 3.0 | 85 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.576 | 2.425 | 5.9 | 81 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.839 | 2.794 | 1.6 | 85 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.784 | 3.618 | 4.4 | 83 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.141 | 3.044 | 3.1 | 83 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.660 | 1.592 | 4.1 | 86 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.647 | 1.544 | 6.3 | 84 | 0.00 |
| 89 | T | n-Butylbenzene | 2.885 | 2.813 | 2.5 | 84 | 0.00 |
| 90 | T | Hexachloroethane | 0.643 | 0.617 | 4.0 | 85 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.456 | 1.373 | 5.7 | 84 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.094 | 0.085 | 9.6 | 78 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.861 | 0.771 | 10.5 | 79 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.506 | 0.438 | 13.4 | 77 | 0.00 |
| 95 | T | Naphthalene | 1.468 | 1.353 | 7.8 | 79 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023109.D
Acq On : 14 Aug 2025 20:38
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 27 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Aug 18 01:32:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 0.742 | 0.666 | 10.2 | 80 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023109.D
Acq On : 14 Aug 2025 20:38
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 27 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Aug 18 01:32:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 77 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 37.436 | 25.1# | 68 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 50.612 | -1.2 | 85 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 53.299 | -6.6# | 87 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 56.056 | -12.1 | 98 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 56.698 | -13.4 | 92 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 47.526 | 4.9 | 78 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 46.826 | 6.3 | 76 | 0.01 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 45.401 | 9.2 | 74 | 0.01 |
| 10 | T | Methyl Iodide | 50.000 | 52.294 | -4.6 | 78 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 219.404 | 12.2 | 70 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 46.597 | 6.8# | 75 | 0.00 |
| 13 | T | Acrolein | 250.000 | 150.160 | 39.9# | 49 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 45.884 | 8.2 | 73 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 241.303 | 3.5 | 75 | 0.00 |
| 16 | T | Acetone | 250.000 | 182.326 | 27.1# | 56 | 0.01 |
| 17 | T | Carbon Disulfide | 50.000 | 46.257 | 7.5 | 75 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 51.627 | -3.3 | 76 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 49.373 | 1.3 | 77 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 50.830 | -1.7 | 82 | 0.01 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 48.739 | 2.5 | 78 | 0.01 |
| 22 | T | Diisopropyl ether | 50.000 | 50.509 | -1.0 | 79 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 238.003 | 4.8 | 74 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 50.629 | -1.3 | 80 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 220.416 | 11.8 | 67 | 0.01 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 41.758 | 16.5 | 66 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 50.429 | -0.9 | 80 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 50.366 | -0.7 | 80 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 235.626 | 5.7 | 73 | 0.00 |
| 30 | C | Chloroform | 50.000 | 51.980 | -4.0# | 83 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 43.985 | 12.0 | 74 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 50.099 | -0.2 | 80 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 53.901 | -7.8 | 86 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 81 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 50.660 | -1.3 | 84 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 47.183 | 5.6 | 78 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 45.871 | 8.3 | 74 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 47.160 | 5.7 | 79 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 45.989 | 8.0 | 77 | 0.00 |
| 40 | TM | Benzene | 50.000 | 49.676 | 0.6 | 82 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 42.799 | 14.4 | 68 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 49.831 | 0.3 | 83 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 46.911 | 6.2 | 77 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 47.429 | 5.1 | 80 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 50.190 | -0.4# | 83 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 50.217 | -0.4 | 82 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 51.308 | -2.6 | 84 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 46.602 | 6.8 | 72 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023109.D
Acq On : 14 Aug 2025 20:38
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 27 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Aug 18 01:32:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 1000.000 | 959.813 | 4.0 | 78 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 50.964 | -1.9 | 84 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 240.407 | 3.8 | 76 | 0.00 |
| 52 | CM | Toluene | 50.000 | 50.491 | -1.0# | 83 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 48.061 | 3.9 | 78 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 48.260 | 3.5 | 78 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 49.113 | 1.8 | 81 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 49.346 | 1.3 | 77 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 49.259 | 1.5 | 81 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 258.207 | -3.3 | 79 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 233.670 | 6.5 | 73 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 49.847 | 0.3 | 81 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 49.026 | 1.9 | 80 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 51.660 | -3.3 | 85 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 84 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 47.178 | 5.6 | 81 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 48.335 | 3.3 | 83 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 49.184 | 1.6 | 83 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 48.775 | 2.5# | 81 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 99.829 | 0.2 | 84 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 50.504 | -1.0 | 84 | 0.00 |
| 70 | T | Styrene | 50.000 | 51.783 | -3.6 | 86 | 0.00 |
| 71 | P | Bromoform | 50.000 | 47.255 | 5.5 | 79 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 87 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 46.938 | 6.1 | 82 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 44.606 | 10.8 | 75 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 45.802 | 8.4 | 82 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 54.526 | -9.1 | 85 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 46.165 | 7.7 | 81 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 47.987 | 4.0 | 83 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 47.529 | 4.9 | 83 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 48.207 | 3.6 | 83 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 39.770 | 20.5 | 70 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 48.521 | 3.0 | 85 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 47.072 | 5.9 | 81 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 49.211 | 1.6 | 85 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 47.812 | 4.4 | 83 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 48.457 | 3.1 | 83 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 47.944 | 4.1 | 86 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 46.877 | 6.2 | 84 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 48.761 | 2.5 | 84 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 47.944 | 4.1 | 85 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 47.139 | 5.7 | 84 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 45.509 | 9.0 | 78 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 44.744 | 10.5 | 79 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 43.304 | 13.4 | 77 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 46.067 | 7.9 | 79 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023109.D
Acq On : 14 Aug 2025 20:38
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 27 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Aug 18 01:32:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 44.896 | 10.2 | 80 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

## VOLATILE CONTINUING CALIBRATION CHECK

| | | | |
|---|---|---|---|
| Lab Name: | Alliance | Contract: | FIRS02 |
| Lab Code: | ACE | SDG No.: | Q2819 |
| Instrument ID: | MSVOA_Y | Calibration Date/Time: | 08/19/2025 09:11 |
| Lab File ID: | VY023137.D | Init. Calib. Date(s): | 08/12/2025 08/12/2025 |
| Heated Purge: (Y/N) | Y | Init. Calib. Time(s): | 14:54 16:47 |

GC Column: RXI-624 ID: 0.25 (mm)

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.408 | 0.339 | | -16.91 | 20 |
| Chloromethane | 0.661 | 0.565 | 0.1 | -14.52 | 20 |
| Vinyl Chloride | 0.817 | 0.743 | | -9.06 | 20 |
| Bromomethane | 0.610 | 0.580 | | -4.92 | 20 |
| Chloroethane | 0.543 | 0.507 | | -6.63 | 20 |
| Trichlorofluoromethane | 0.994 | 0.908 | | -8.65 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.490 | 0.476 | | -2.86 | 20 |
| 1,1-Dichloroethene | 0.482 | 0.477 | | -1.04 | 20 |
| Acetone | 0.103 | 0.113 | | 9.71 | 20 |
| Carbon Disulfide | 1.571 | 1.449 | | -7.77 | 20 |
| Methyl tert-butyl Ether | 1.249 | 1.212 | | -2.96 | 20 |
| Methyl Acetate | 0.307 | 0.263 | | -14.33 | 20 |
| Methylene Chloride | 0.620 | 0.513 | | -17.26 | 20 |
| trans-1,2-Dichloroethene | 0.541 | 0.535 | | -1.11 | 20 |
| 1,1-Dichloroethane | 0.942 | 0.908 | 0.1 | -3.61 | 20 |
| Cyclohexane | 0.888 | 0.821 | | -7.55 | 20 |
| 2-Butanone | 0.140 | 0.137 | | -2.14 | 20 |
| Carbon Tetrachloride | 0.483 | 0.498 | | 3.11 | 20 |
| cis-1,2-Dichloroethene | 0.626 | 0.626 | | 0 | 20 |
| Bromochloromethane | 0.374 | 0.333 | | -10.96 | 20 |
| Chloroform | 0.971 | 0.958 | | -1.34 | 20 |
| 1,1,1-Trichloroethane | 0.862 | 0.864 | | 0.23 | 20 |
| Methylcyclohexane | 0.586 | 0.607 | | 3.58 | 20 |
| Benzene | 1.370 | 1.381 | | 0.8 | 20 |
| 1,2-Dichloroethane | 0.356 | 0.342 | | -3.93 | 20 |
| Trichloroethene | 0.354 | 0.365 | | 3.11 | 20 |
| 1,2-Dichloropropane | 0.315 | 0.316 | | 0.32 | 20 |
| Bromodichloromethane | 0.466 | 0.464 | | -0.43 | 20 |
| 4-Methyl-2-Pentanone | 0.195 | 0.188 | | -3.59 | 20 |
| Toluene | 0.870 | 0.899 | | 3.33 | 20 |
| t-1,3-Dichloropropene | 0.422 | 0.431 | | 2.13 | 20 |
| cis-1,3-Dichloropropene | 0.499 | 0.504 | | 1 | 20 |
| 1,1,2-Trichloroethane | 0.242 | 0.243 | | 0.41 | 20 |
| 2-Hexanone | 0.133 | 0.135 | | 1.5 | 20 |
| Dibromochloromethane | 0.320 | 0.326 | | 1.88 | 20 |
| 1,2-Dibromoethane | 0.228 | 0.229 | | 0.44 | 20 |
| Tetrachloroethene | 0.446 | 0.450 | | 0.9 | 20 |
| Chlorobenzene | 1.079 | 1.127 | 0.3 | 4.45 | 20 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

## VOLATILE CONTINUING CALIBRATION CHECK

| | | | |
|---|---|---|---|
| Lab Name: | Alliance | Contract: | FIRS02 |
| Lab Code: | ACE | SDG No.: | Q2819 |
| Instrument ID: | MSVOA_Y | Calibration Date/Time: | 08/19/2025 09:11 |
| Lab File ID: | VY023137.D | Init. Calib. Date(s): | 08/12/2025 08/12/2025 |
| Heated Purge: (Y/N) | Y | Init. Calib. Time(s): | 14:54 16:47 |

GC Column: RXI-624 ID: 0.25 (mm)

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Ethyl Benzene | 1.856 | 1.962 | | 5.71 | 20 |
| m/p-Xylenes | 0.725 | 0.779 | | 7.45 | 20 |
| o-Xylene | 0.679 | 0.732 | | 7.81 | 20 |
| Styrene | 1.110 | 1.221 | | 10 | 20 |
| Bromoform | 0.214 | 0.218 | 0.1 | 1.87 | 20 |
| Isopropylbenzene | 3.529 | 3.707 | | 5.04 | 20 |
| 1,1,2,2-Tetrachloroethane | 0.603 | 0.586 | 0.3 | -2.82 | 20 |
| 1,3-Dichlorobenzene | 1.660 | 1.734 | | 4.46 | 20 |
| 1,4-Dichlorobenzene | 1.647 | 1.689 | | 2.55 | 20 |
| 1,2-Dichlorobenzene | 1.456 | 1.499 | | 2.95 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.094 | 0.088 | | -6.38 | 20 |
| 1,2,4-Trichlorobenzene | 0.861 | 0.881 | | 2.32 | 20 |
| 1,2,3-Trichlorobenzene | 0.742 | 0.735 | | -0.94 | 20 |
| 1,2-Dichloroethane-d4 | 0.477 | 0.431 | | -9.64 | 20 |
| Dibromofluoromethane | 0.299 | 0.292 | | -2.34 | 20 |
| Toluene-d8 | 1.169 | 1.150 | | -1.63 | 20 |
| 4-Bromofluorobenzene | 0.376 | 0.373 | | -0.8 | 20 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023137.D
Acq On : 19 Aug 2025 09:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 20 01:22:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 560294 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 876189 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 761785 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 392533 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 241668 | 45.256 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 90.520% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 256133 | 48.854 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 97.700% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 1008048 | 49.217 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 98.440% | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 326827 | 49.618 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 99.240% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 190057 | 41.557 | ug/l | 98 |
| 3) Chloromethane | 2.074 | 50 | 316334 | 42.705 | ug/l | 99 |
| 4) Vinyl Chloride | 2.208 | 62 | 416548 | 45.491 | ug/l | 100 |
| 5) Bromomethane | 2.598 | 94 | 324698 | 47.481 | ug/l | 99 |
| 6) Chloroethane | 2.739 | 64 | 284191 | 46.683 | ug/l | 100 |
| 7) Trichlorofluoromethane | 3.056 | 101 | 508922 | 45.708 | ug/l | 100 |
| 8) Diethyl Ether | 3.458 | 74 | 135802 | 46.102 | ug/l | 95 |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 266790 | 48.569 | ug/l | 99 |
| 10) Methyl Iodide | 4.007 | 142 | 325506 | 54.916 | ug/l | 98 |
| 11) Tert butyl alcohol | 4.866 | 59 | 79834 | 218.191 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 3.793 | 96 | 267212 | 49.491 | ug/l | 90 |
| 13) Acrolein | 3.653 | 56 | 60662 | 113.207 | ug/l | 93 |
| 14) Allyl chloride | 4.385 | 41 | 361978 | 45.563 | ug/l | 96 |
| 15) Acrylonitrile | 5.061 | 53 | 279904 | 233.725 | ug/l | 99 |
| 16) Acetone | 3.866 | 43 | 316768 | 273.812 | ug/l | 99 |
| 17) Carbon Disulfide | 4.110 | 76 | 811887 | 46.117 | ug/l | 100 |
| 18) Methyl Acetate | 4.385 | 43 | 147420 | 42.821 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 5.122 | 73 | 679197 | 48.545 | ug/l | 99 |
| 20) Methylene Chloride | 4.616 | 84 | 287656 | 47.727 | ug/l | 95 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 299764 | 49.404 | ug/l | 96 |
| 22) Diisopropyl ether | 6.025 | 45 | 825090 | 47.793 | ug/l | 99 |
| 23) Vinyl Acetate | 5.964 | 43 | 2298296 | 240.761 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.921 | 63 | 508733 | 48.199 | ug/l | 99 |
| 25) 2-Butanone | 6.896 | 43 | 384462 | 244.351 | ug/l | 97 |
| 26) 2,2-Dichloropropane | 6.890 | 77 | 468257 | 51.414 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 351019 | 50.042 | ug/l | 98 |
| 28) Bromochloromethane | 7.244 | 49 | 186381 | 44.509 | ug/l | 95 |
| 29) Tetrahydrofuran | 7.262 | 42 | 221133 | 226.737 | ug/l | 96 |
| 30) Chloroform | 7.421 | 83 | 536519 | 49.287 | ug/l | 95 |
| 31) Cyclohexane | 7.701 | 56 | 460210 | 46.269 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 483961 | 50.106 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 395952 | 50.818 | ug/l | 99 |
| 37) Ethyl Acetate | 6.988 | 43 | 157126 | 48.006 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 436510 | 51.581 | ug/l | 99 |
| 39) Methylcyclohexane | 9.109 | 83 | 531826 | 51.832 | ug/l | 97 |
| 40) Benzene | 8.079 | 78 | 1210380 | 50.401 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023137.D
Acq On : 19 Aug 2025 09:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 20 01:22:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.219 | 41 | 88337m | 46.765 | ug/l | | |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 300070 | 48.044 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.201 | 43 | 308955 | 46.703 | ug/l | # | 84 |
| 44) Trichloroethene | 8.866 | 130 | 319381 | 51.463 | ug/l | | 100 |
| 45) 1,2-Dichloropropane | 9.146 | 63 | 276520 | 50.044 | ug/l | | 97 |
| 46) Dibromomethane | 9.231 | 93 | 157422 | 49.637 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.426 | 83 | 406246 | 49.781 | ug/l | | 97 |
| 48) Methyl methacrylate | 9.219 | 41 | 152020 | 48.023 | ug/l | | 97 |
| 49) 1,4-Dioxane | 9.231 | 88 | 34759 | 934.713 | ug/l | | 97 |
| 51) 4-Methyl-2-Pentanone | 9.999 | 43 | 822061 | 240.906 | ug/l | | 98 |
| 52) Toluene | 10.170 | 92 | 788070 | 51.669 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 377708 | 51.112 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 9.859 | 75 | 441435 | 50.516 | ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 213063 | 50.206 | ug/l | | 97 |
| 56) Ethyl methacrylate | 10.438 | 69 | 276182 | 50.859 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.719 | 76 | 354628 | 49.273 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 622022 | 242.835 | ug/l | | 97 |
| 59) 2-Hexanone | 10.762 | 43 | 592202 | 254.865 | ug/l | | 98 |
| 60) Dibromochloromethane | 10.914 | 129 | 285374 | 50.963 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.018 | 107 | 201073 | 50.411 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.646 | 164 | 342427 | 50.340 | ug/l | | 98 |
| 65) Chlorobenzene | 11.444 | 112 | 858367 | 52.238 | ug/l | | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131 | 295011 | 52.900 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.517 | 91 | 1494465 | 52.850 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 1186104 | 107.397 | ug/l | | 98 |
| 69) o-Xylene | 11.956 | 106 | 557951 | 53.940 | ug/l | | 100 |
| 70) Styrene | 11.969 | 104 | 930498 | 55.007 | ug/l | | 98 |
| 71) Bromoform | 12.133 | 173 | 166298 | 51.022 | ug/l | | 99 |
| 73) Isopropylbenzene | 12.255 | 105 | 1455261 | 52.528 | ug/l | | 99 |
| 74) N-amyl acetate | 12.072 | 43 | 285441 | 48.584 | ug/l | | 97 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 230085 | 48.639 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 165292m | 43.632 | ug/l | | |
| 77) Bromobenzene | 12.529 | 156 | 336874 | 50.968 | ug/l | | 97 |
| 78) n-propylbenzene | 12.597 | 91 | 1741756 | 52.806 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 975057 | 51.594 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 1191826 | 53.229 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 77577 | 49.570 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 1000547 | 51.036 | ug/l | | 99 |
| 83) tert-Butylbenzene | 12.993 | 119 | 1091125 | 53.956 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 1191535 | 53.459 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.176 | 105 | 1594423 | 53.673 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 1357746 | 55.063 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 680781 | 52.231 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 663039 | 51.281 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.615 | 91 | 1231645 | 54.384 | ug/l | | 99 |
| 90) Hexachloroethane | 13.877 | 117 | 264268 | 52.354 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 588570 | 51.489 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 34676 | 47.081 | ug/l | | 97 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 345818 | 51.158 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 202124 | 50.885 | ug/l | | 99 |
| 95) Naphthalene | 15.145 | 128 | 590257 | 51.208 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.328 | 180 | 288433 | 49.517 | ug/l | | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023137.D
Acq On : 19 Aug 2025 09:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Aug 20 01:22:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

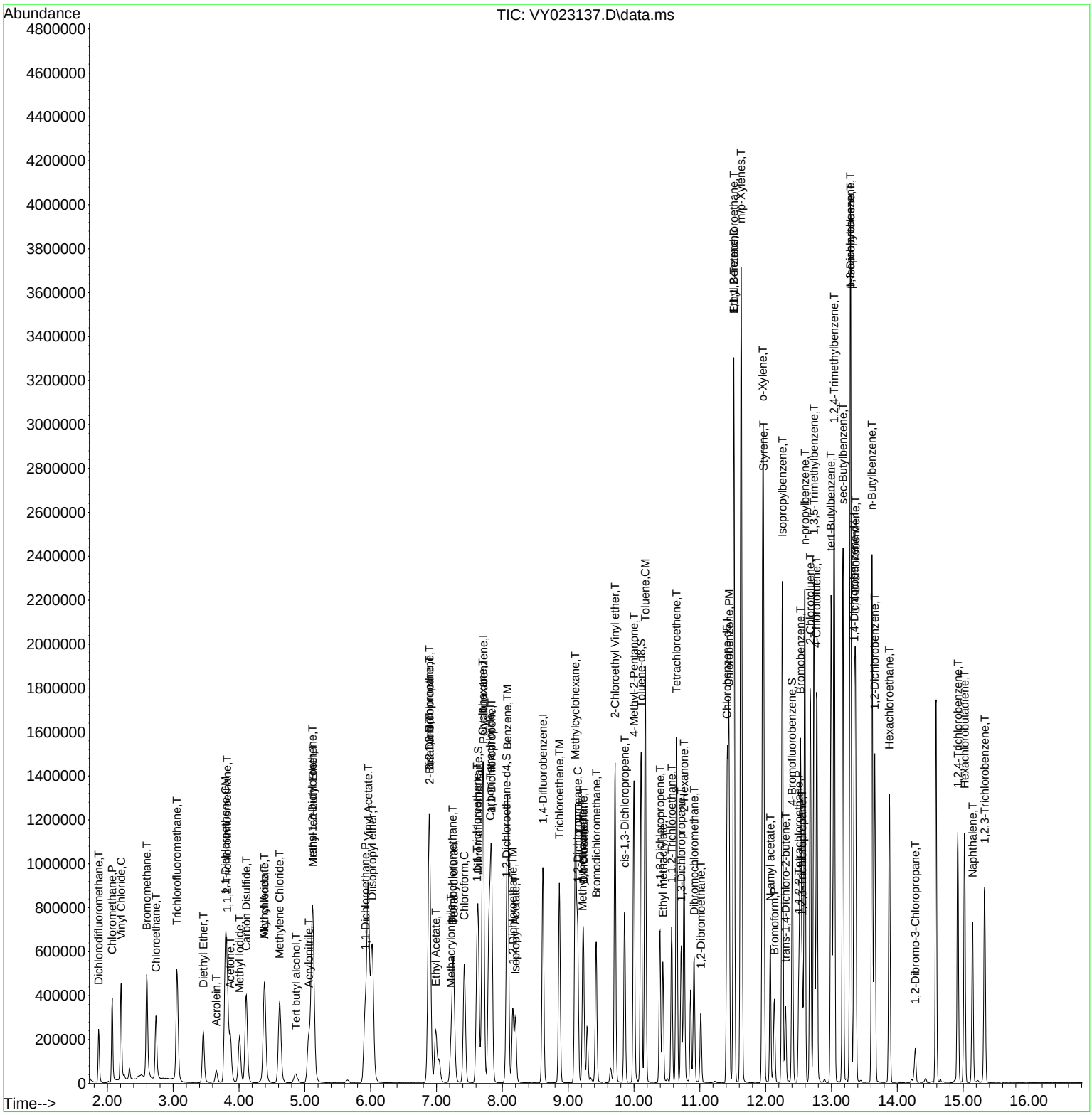
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023137.D
Acq On : 19 Aug 2025 09:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

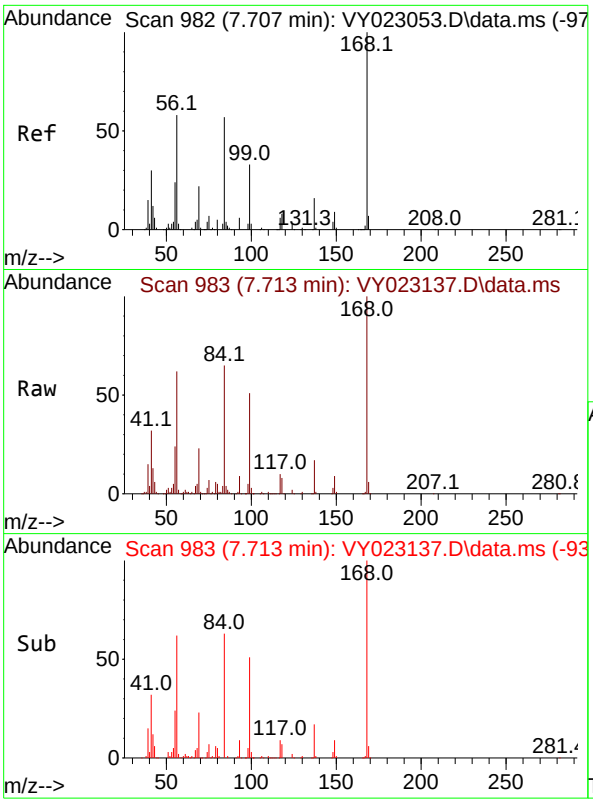
Quant Time: Aug 20 01:22:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

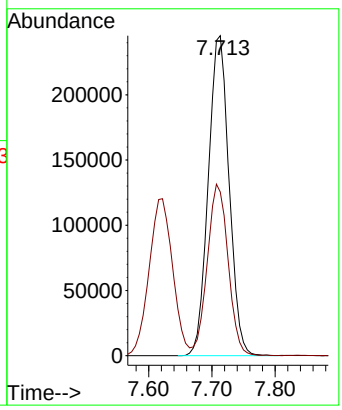





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:168 Resp: 56029

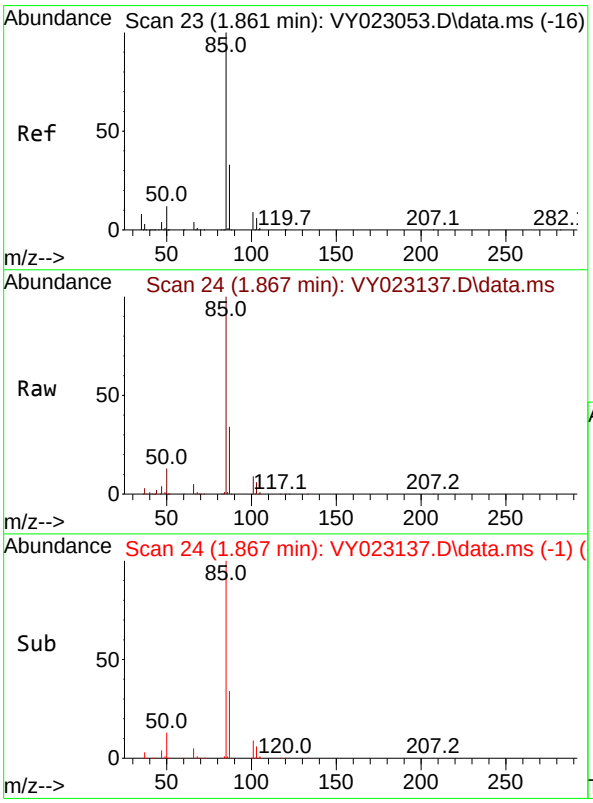
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 51.1 | 42.8 | 64.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

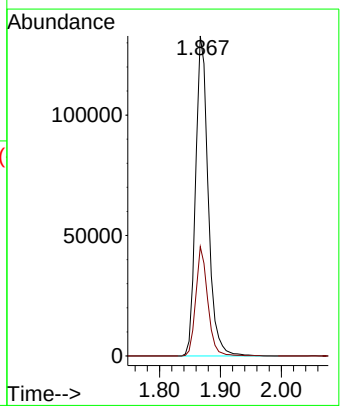
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

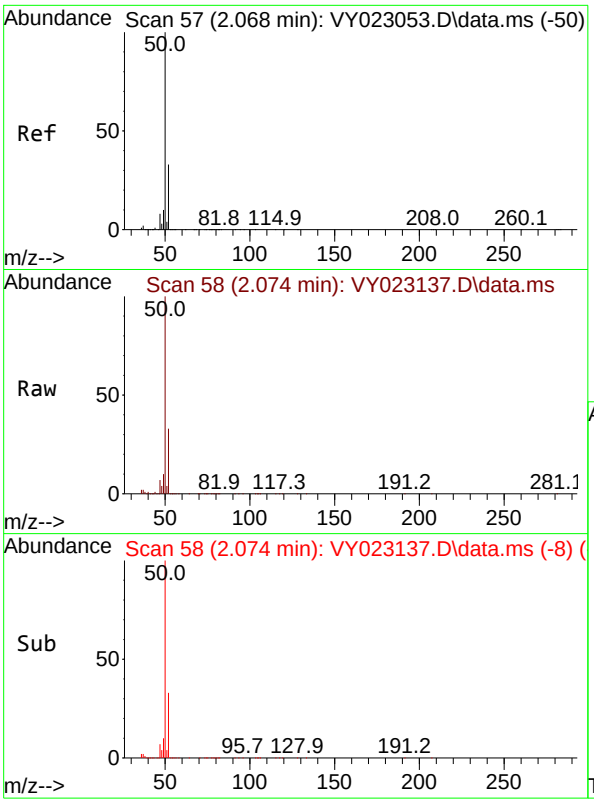



#2
Dichlorodifluoromethane
Concen: 41.557 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 85 Resp: 190057

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 34.2 | 16.6 | 49.8 |

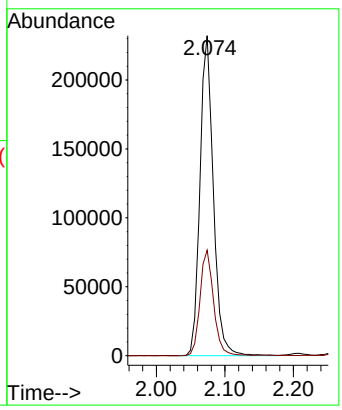





#3
Chloromethane
Concen: 42.705 ug/l
RT: 2.074 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 50 Resp: 31633

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.0 | 26.7 | 40.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 08/20/2025
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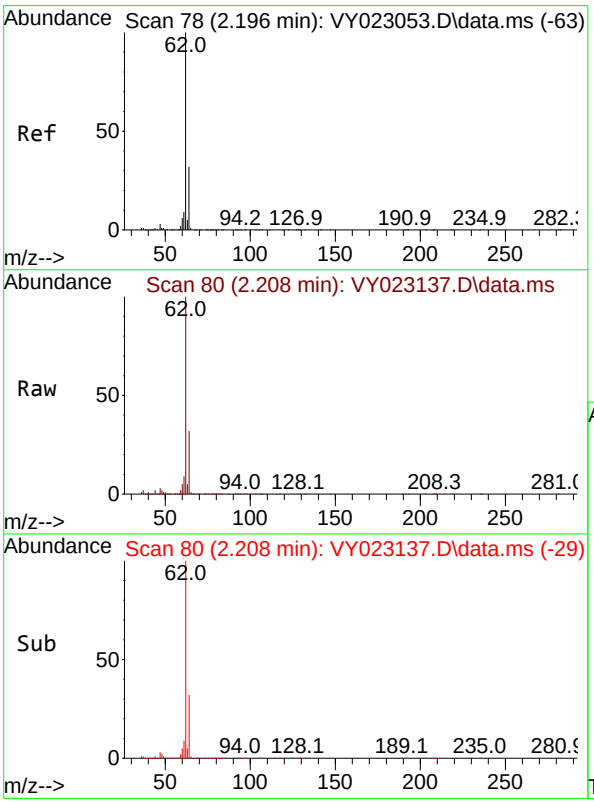
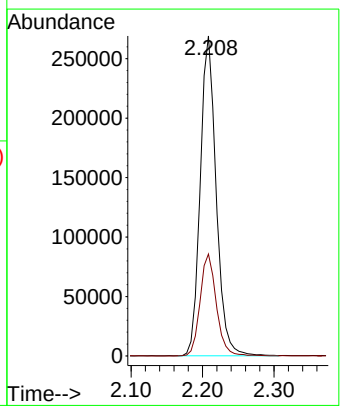
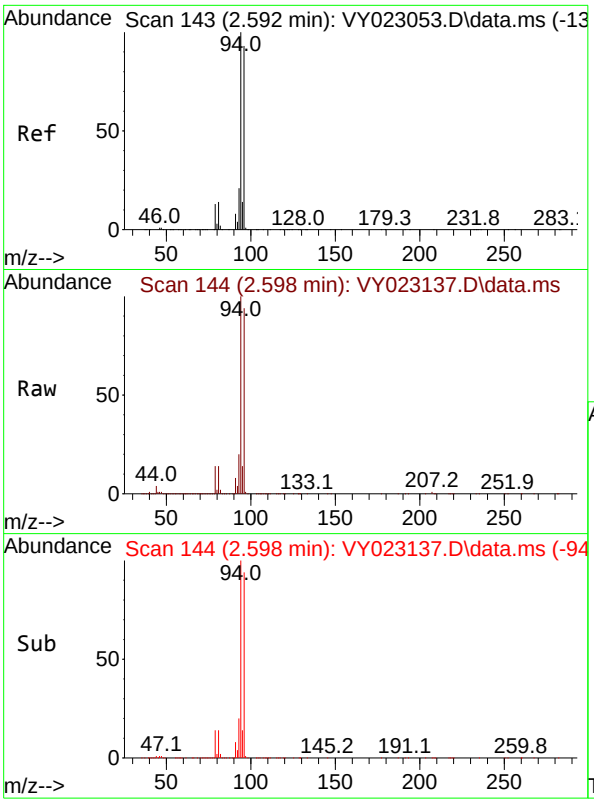



#4
Vinyl Chloride
Concen: 45.491 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 62 Resp: 416548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.8 | 25.4 | 38.0 |

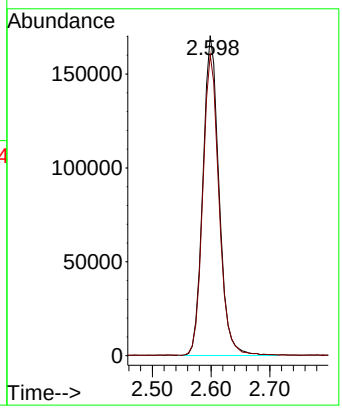





#5
Bromomethane
Concen: 47.481 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 94 Resp: 32469

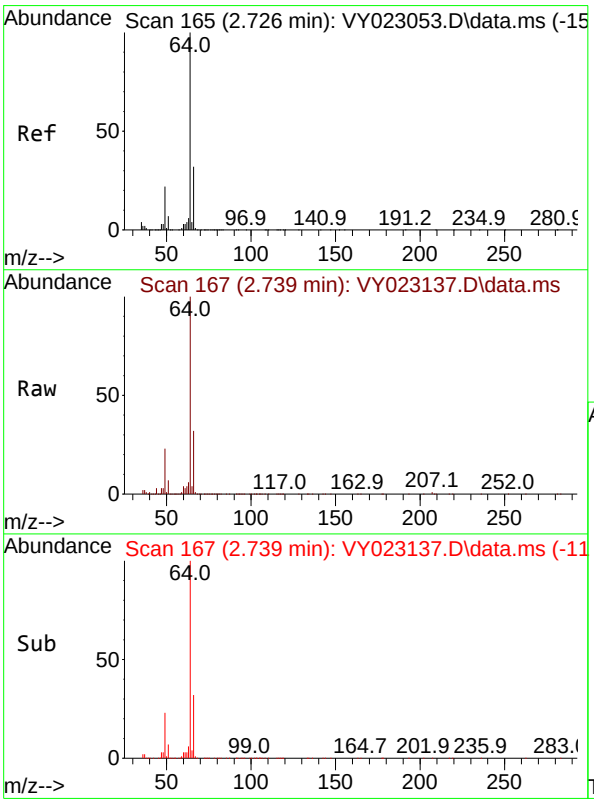
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 94.0 | 74.6 | 112.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

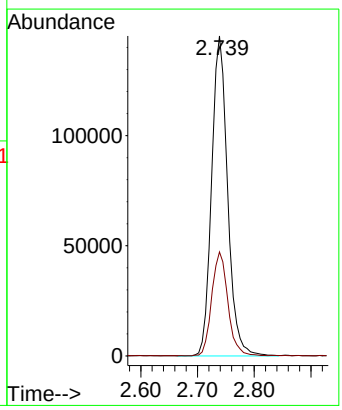
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

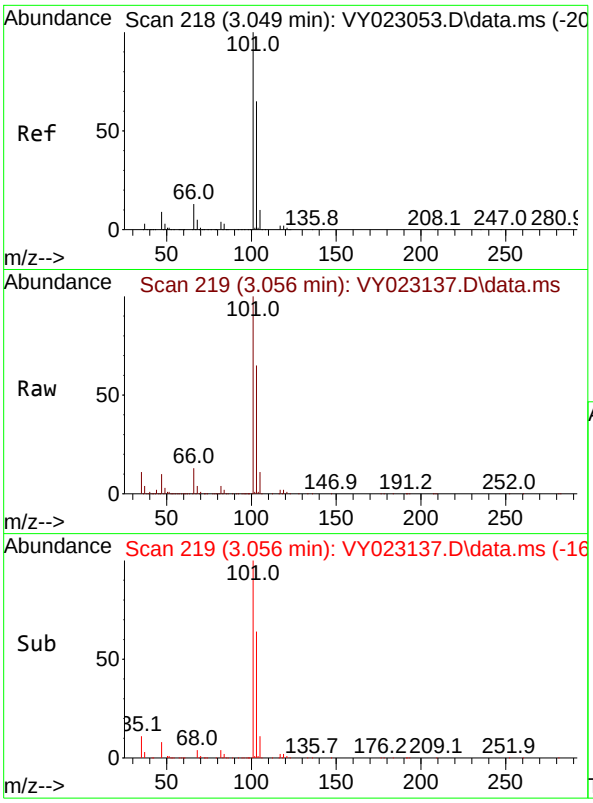



#6
Chloroethane
Concen: 46.683 ug/l
RT: 2.739 min Scan# 167
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 64 Resp: 284191

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.4 | 25.8 | 38.6 |

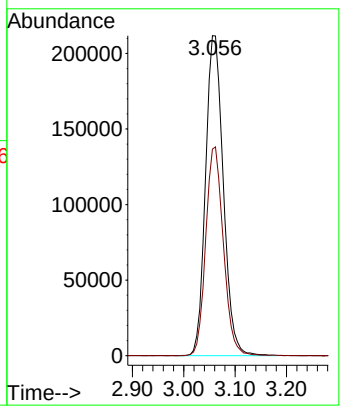





#7
Trichlorofluoromethane
Concen: 45.708 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:101 Resp: 50892

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.6 | 51.9 | 77.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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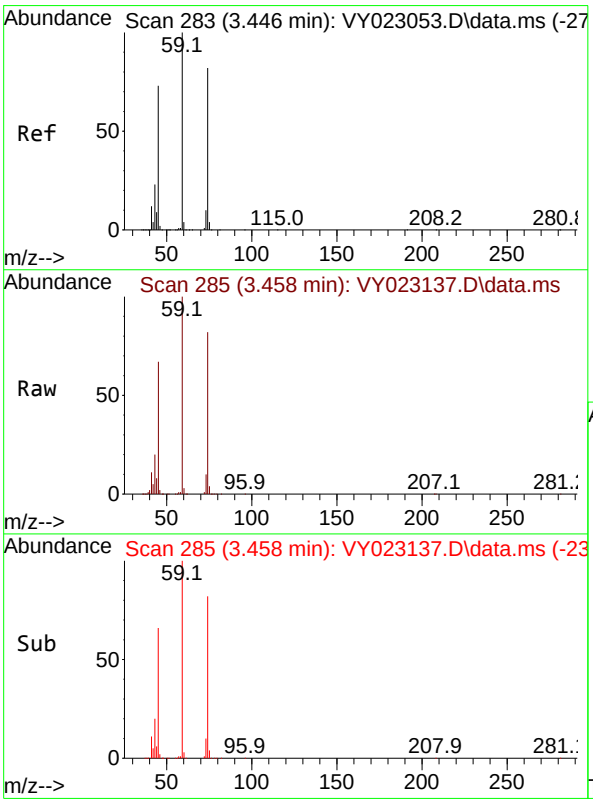
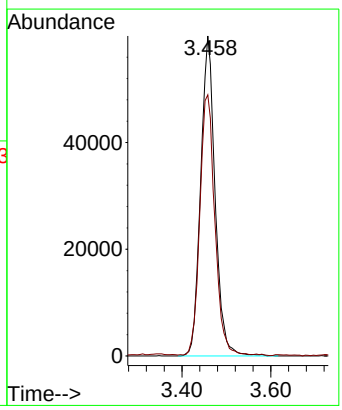
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

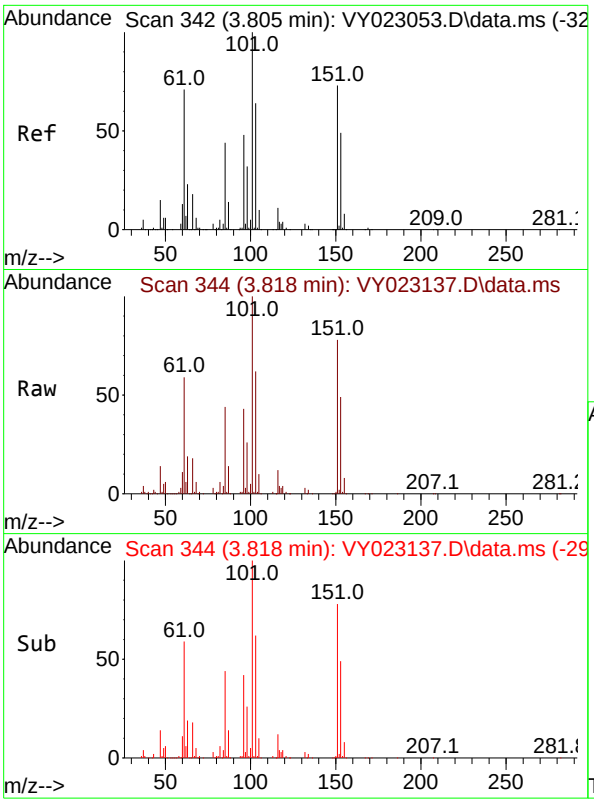



#8
Diethyl Ether
Concen: 46.102 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 74 Resp: 135802

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 84.4 | 44.4 | 133.2 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.569 ug/l
RT: 3.818 min Scan# 3
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:101 Resp: 26679

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 45.5 | 36.3 | 54.5 |
| 151 | 78.8 | 61.5 | 92.3 |

**Instrument :**
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VSTDCCC050

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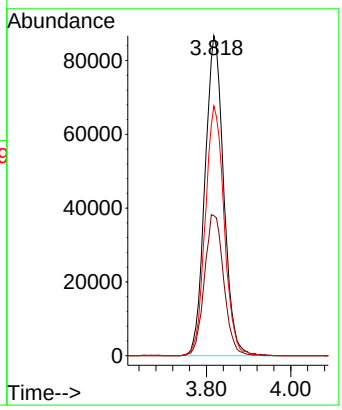
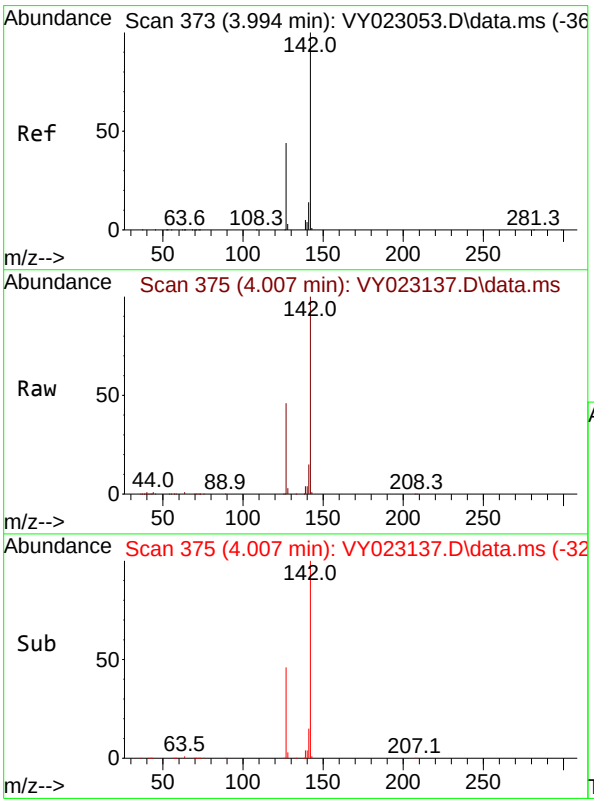
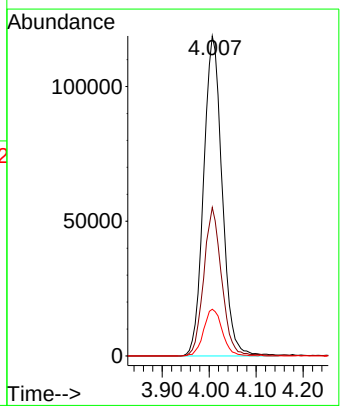


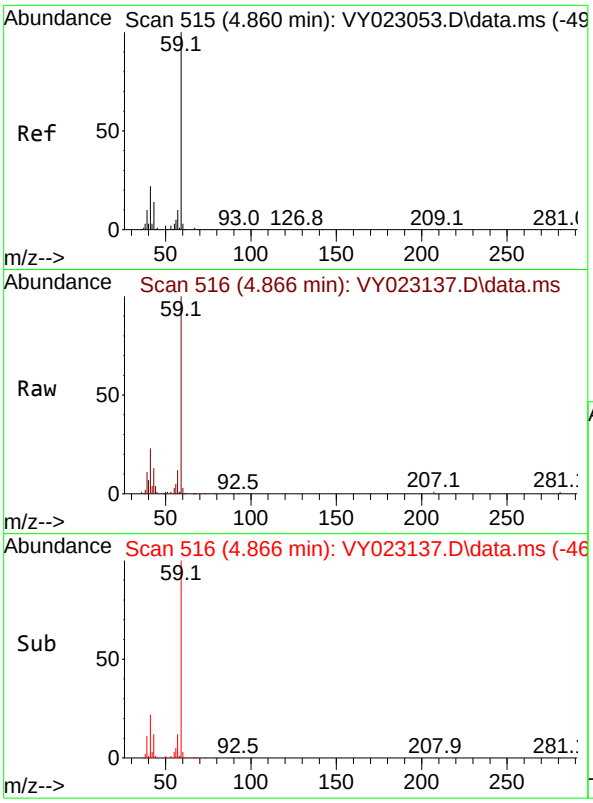




#10
Methyl Iodide
Concen: 54.916 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:142 Resp: 325506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 44.6 | 34.9 | 52.3 |
| 141 | 14.7 | 11.3 | 16.9 |

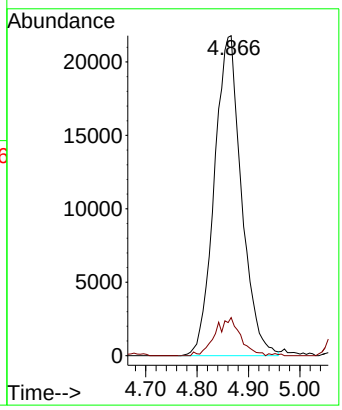





#11
Tert butyl alcohol
Concen: 218.191 ug/l
RT: 4.866 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 59 Resp: 7983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 11.0 | 8.6 | 13.0 |

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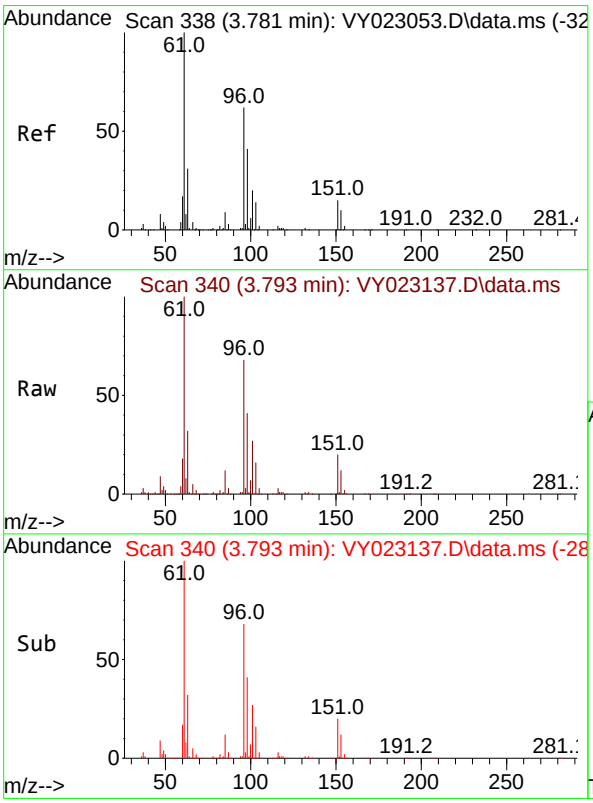
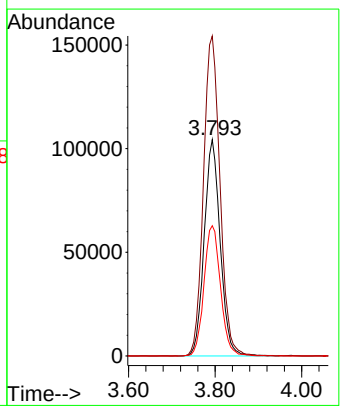
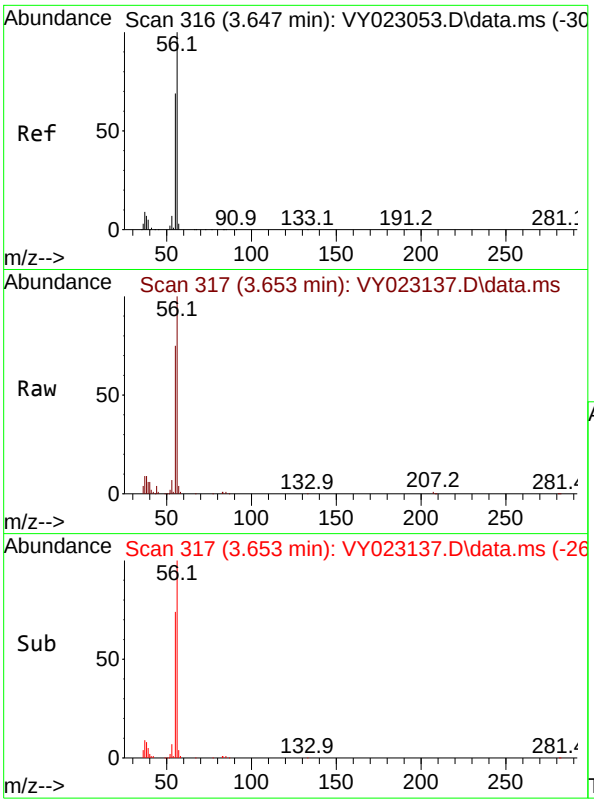



#12
1,1-Dichloroethene
Concen: 49.491 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 96 Resp: 267212

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 148.0 | 129.4 | 194.2 |
| 98 | 60.2 | 52.8 | 79.2 |






#13
Acrolein
Concen: 113.207 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 56 Resp: 6066

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 74.5 | 55.2 | 82.8 |

**Instrument :**
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VSTDCCC050

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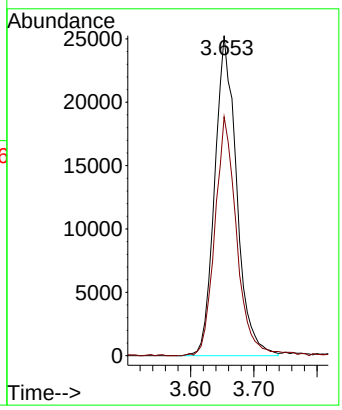
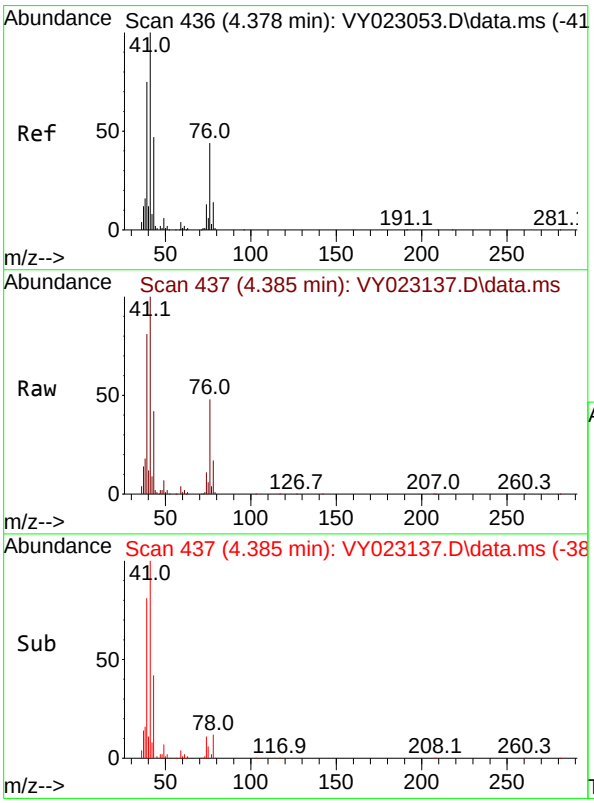
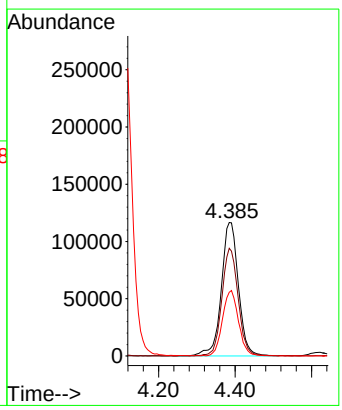


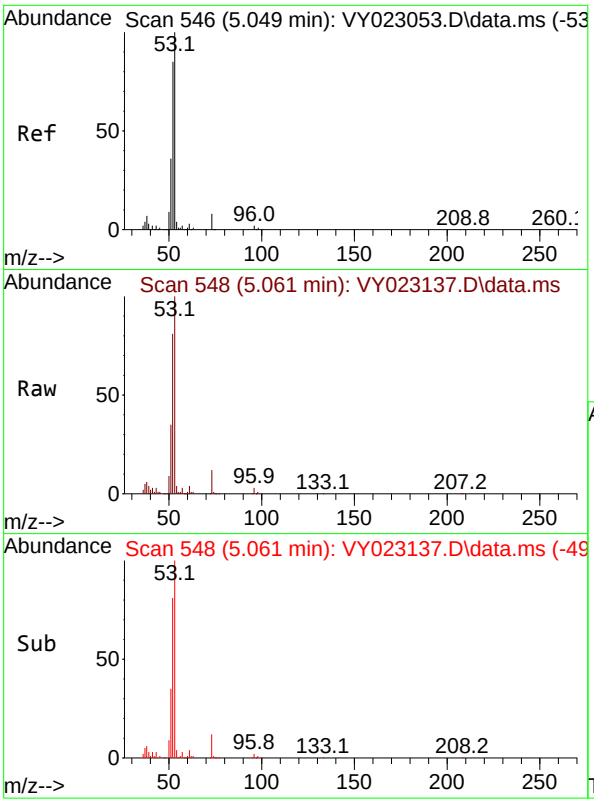




#14
Allyl chloride
Concen: 45.563 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 41 Resp: 361978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 76.6 | 59.8 | 89.6 |
| 76 | 46.0 | 33.7 | 50.5 |

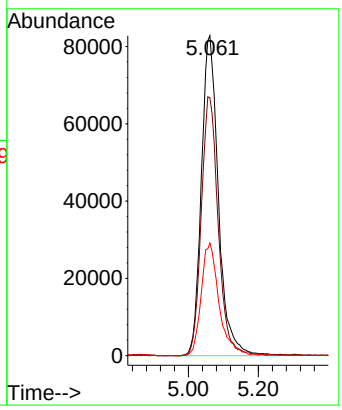





#15
Acrylonitrile
Concen: 233.725 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 53 Resp: 279904

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 80.2 | 65.3 | 97.9 |
| 51 | 36.9 | 29.5 | 44.3 |




**Instrument :**
MSVOA_Y
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VSTDCCC050

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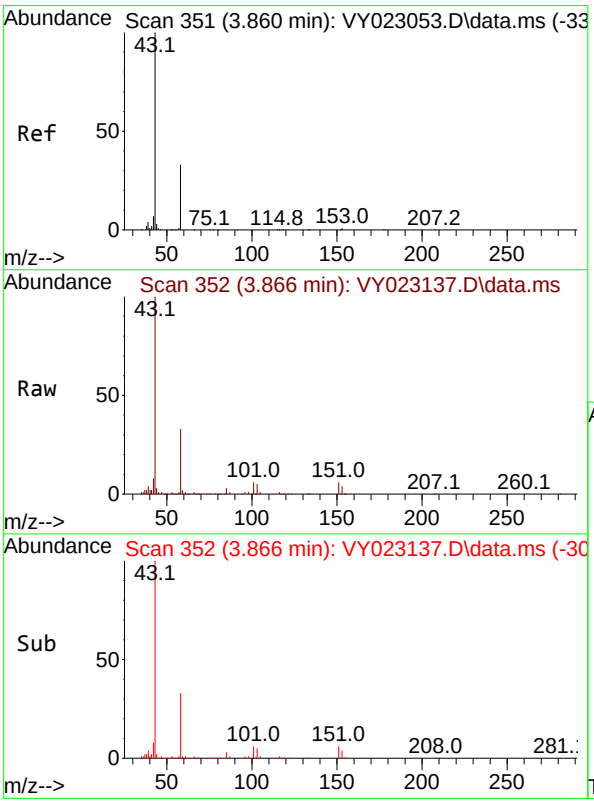
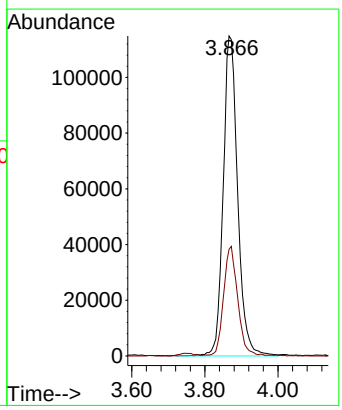
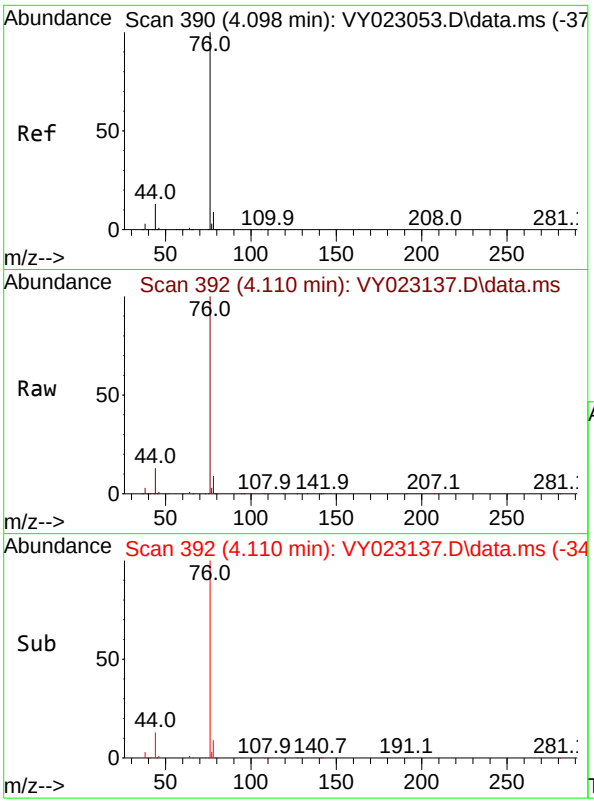



#16
Acetone
Concen: 273.812 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 43 Resp: 316768

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.2 | 27.1 | 40.7 |






#17
Carbon Disulfide
Concen: 46.117 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 76 Resp: 81188

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.4 | 7.4 | 11.2 |

**Instrument :**
MSVOA_Y
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VSTDCCC050

**Manual Integrations**
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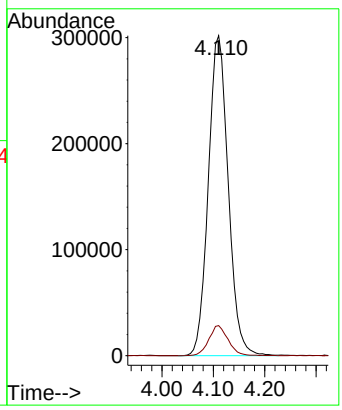
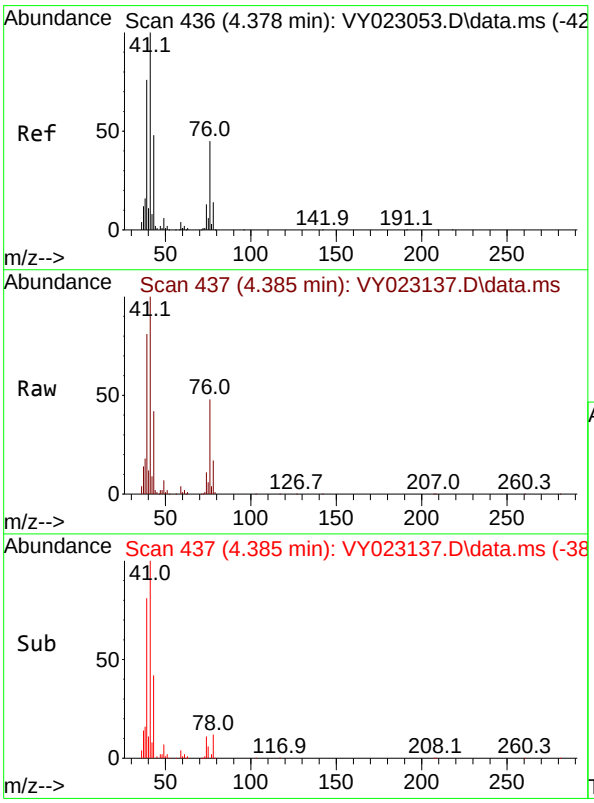
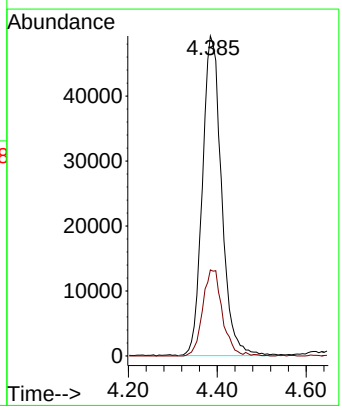


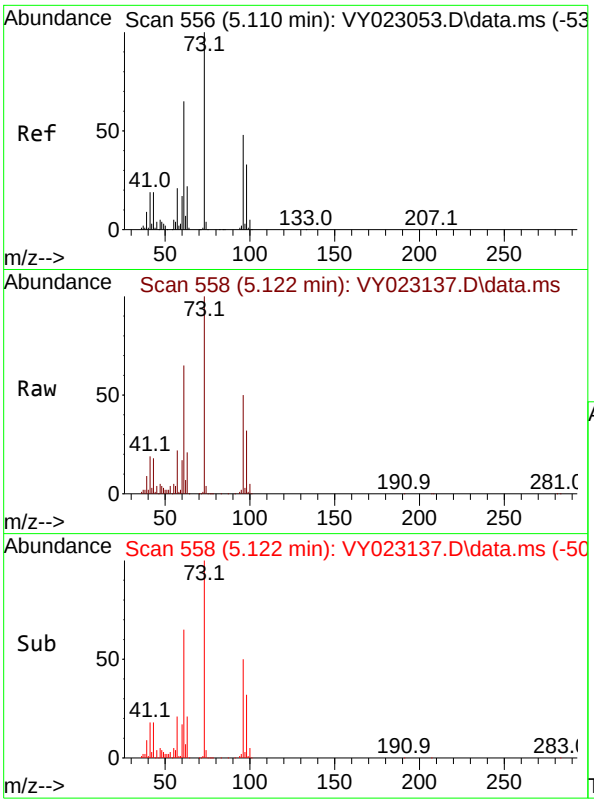




#18
Methyl Acetate
Concen: 42.821 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 43 Resp: 147420

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 27.3 | 21.2 | 31.8 |

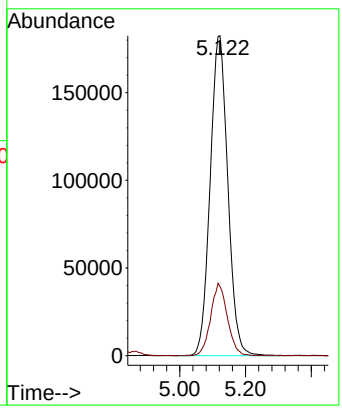





#19
Methyl tert-butyl Ether
Concen: 48.545 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 73 Resp: 67919

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.7 | 17.1 | 25.7 |




**Instrument :**
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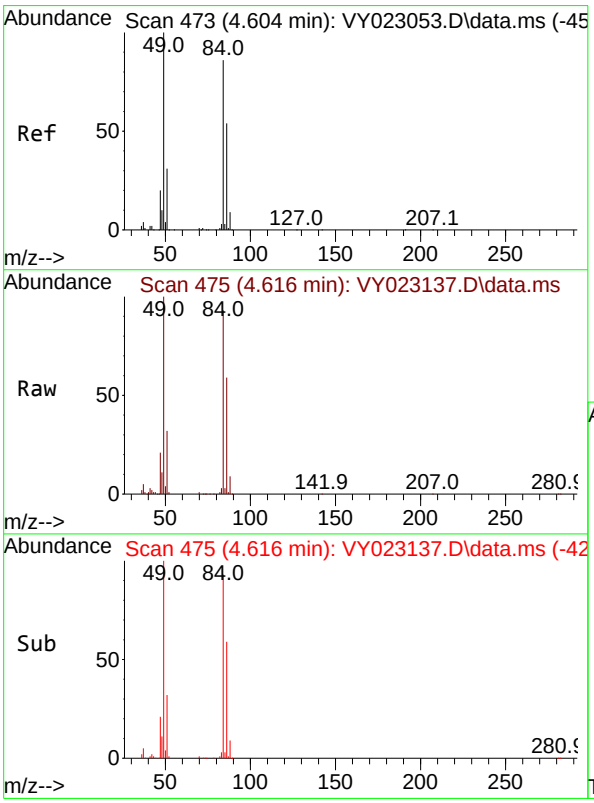
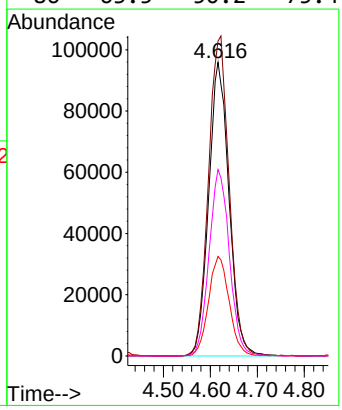
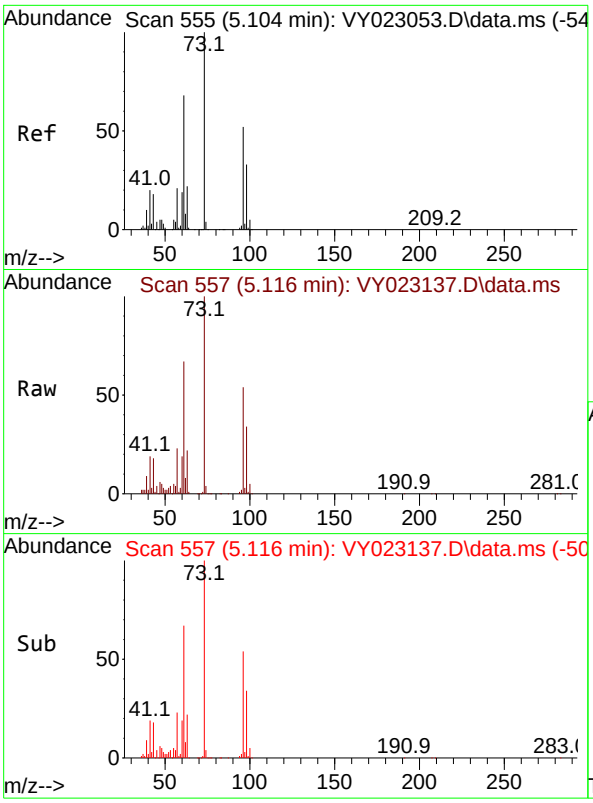



#20
Methylene Chloride
Concen: 47.727 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 84 Resp: 287656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 107.3 | 93.0 | 139.6 |
| 51 | 33.9 | 29.0 | 43.4 |
| 86 | 63.5 | 50.2 | 75.4 |

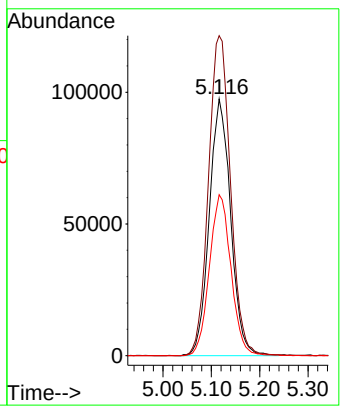





#21
trans-1,2-Dichloroethene
Concen: 49.404 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 96 Resp: 29976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 124.6 | 104.8 | 157.2 |
| 98 | 62.6 | 50.1 | 75.1 |

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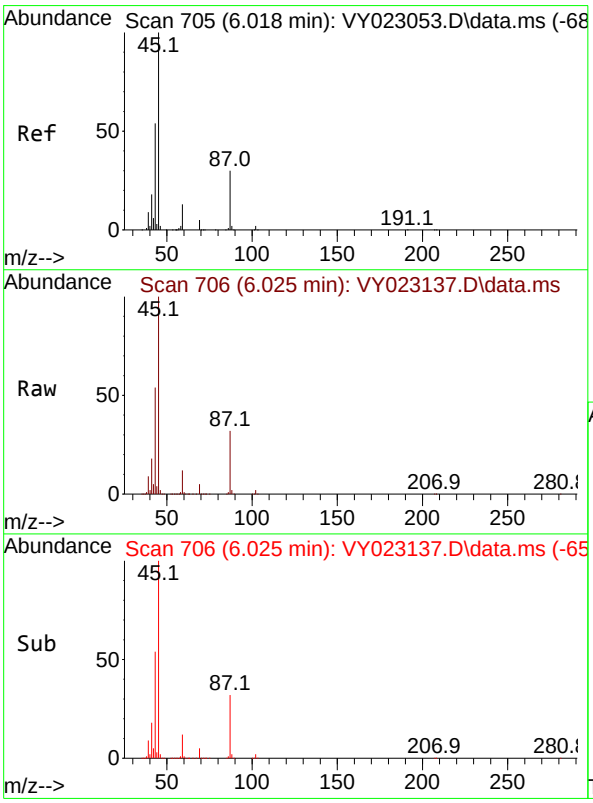
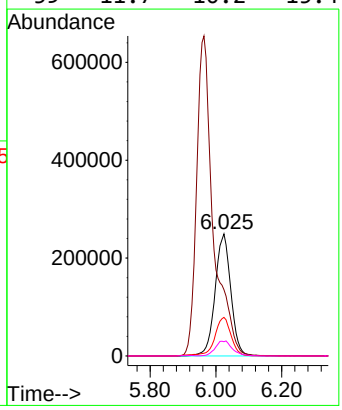
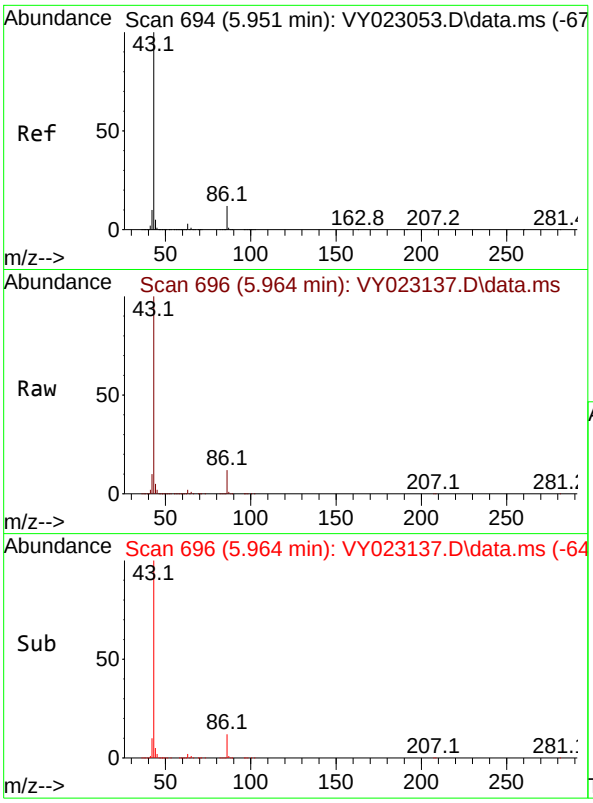



#22
Diisopropyl ether
Concen: 47.793 ug/l
RT: 6.025 min Scan# 706
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 45 Resp: 825090

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 54.3 | 43.4 | 65.0 |
| 87 | 31.6 | 24.4 | 36.6 |
| 59 | 11.7 | 10.2 | 15.4 |

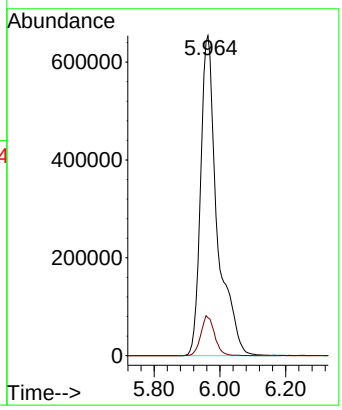





#23
Vinyl Acetate
Concen: 240.761 ug/l
RT: 5.964 min Scan# 6
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 43 Resp: 229829

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.9 | 9.6 | 14.4 |




**Instrument :**
MSVOA_Y
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VSTDCCC050

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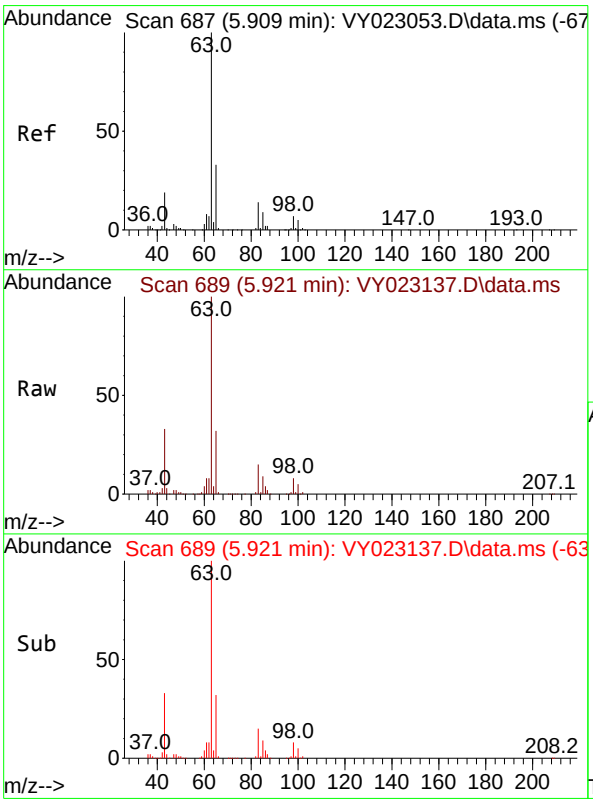
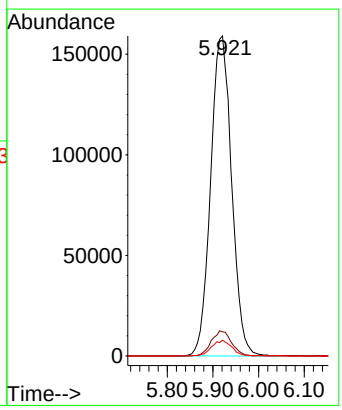
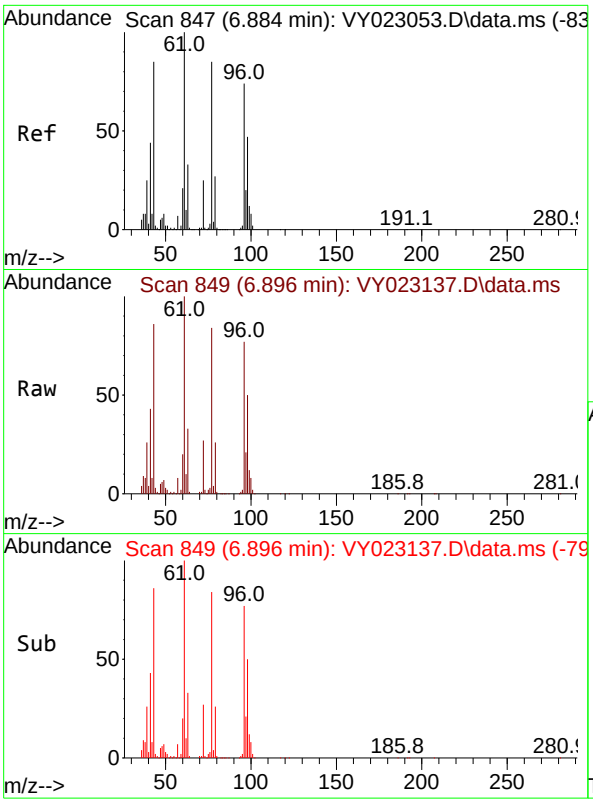



#24
1,1-Dichloroethane
Concen: 48.199 ug/l
RT: 5.921 min Scan# 689
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 63 Resp: 508733

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.6 | 3.5 | 10.6 |
| 100 | 5.0 | 2.4 | 7.1 |

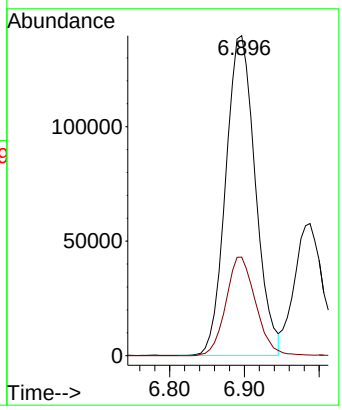





#25
2-Butanone
Concen: 244.351 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 43 Resp: 38446

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 30.8 | 23.5 | 35.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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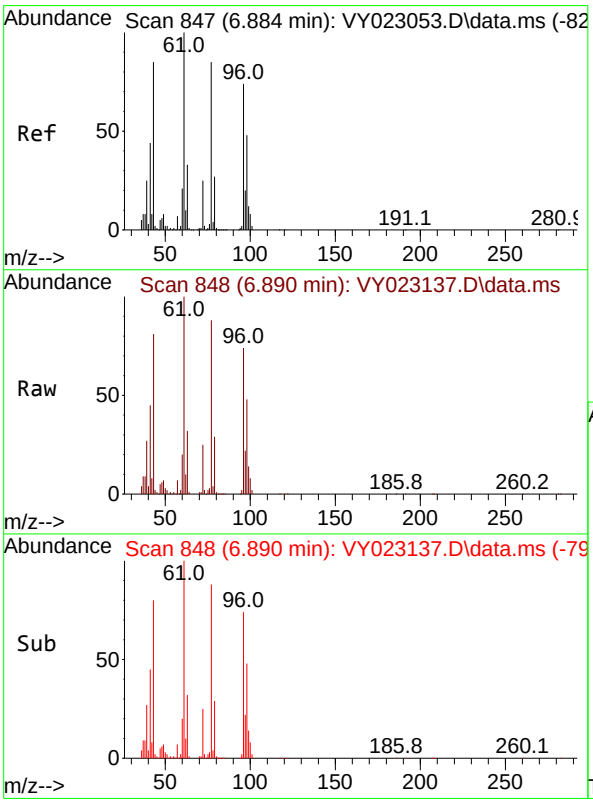
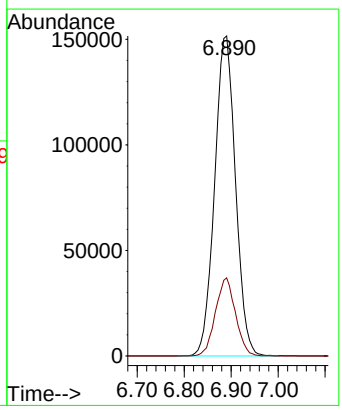
Supervised By :Mahesh Dadoda 08/20/2025

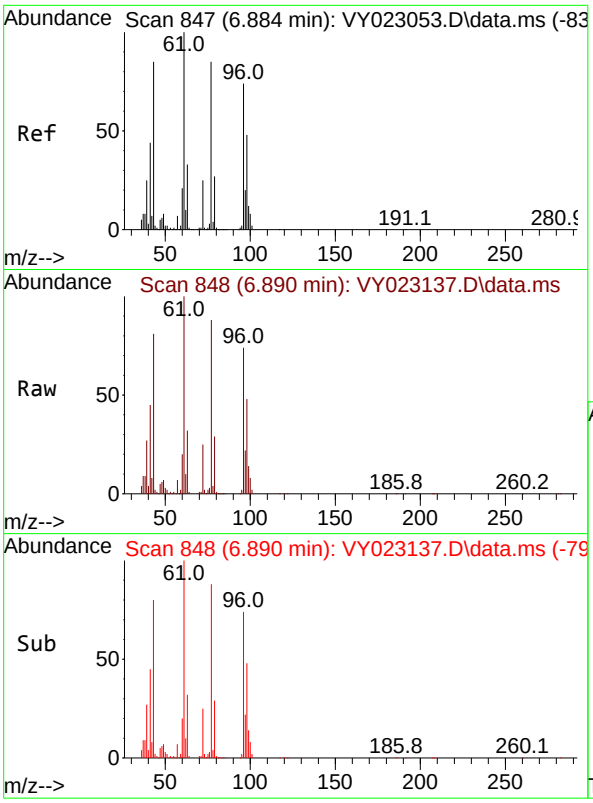



#26
2,2-Dichloropropane
Concen: 51.414 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 77 Resp: 468257

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.4 | 11.6 | 34.8 |






#27
cis-1,2-Dichloroethene
Concen: 50.042 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 96 Resp: 351019

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 135.5 | 0.0 | 278.6 |
| 98 | 64.8 | 0.0 | 130.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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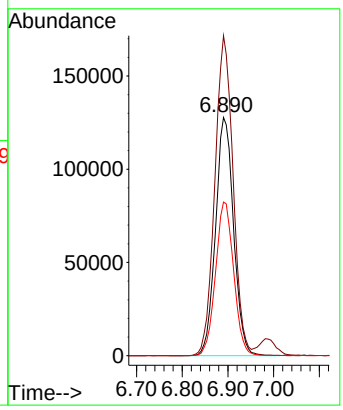
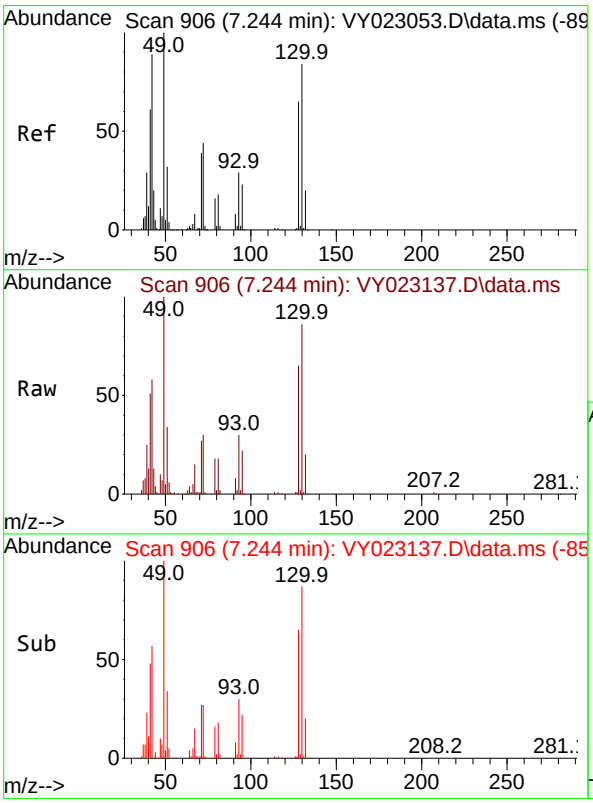
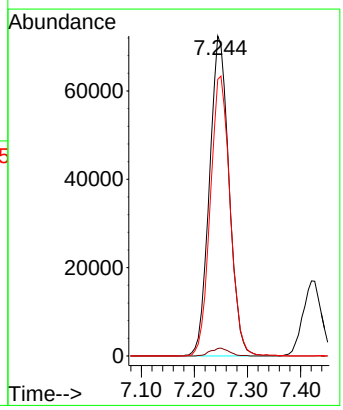


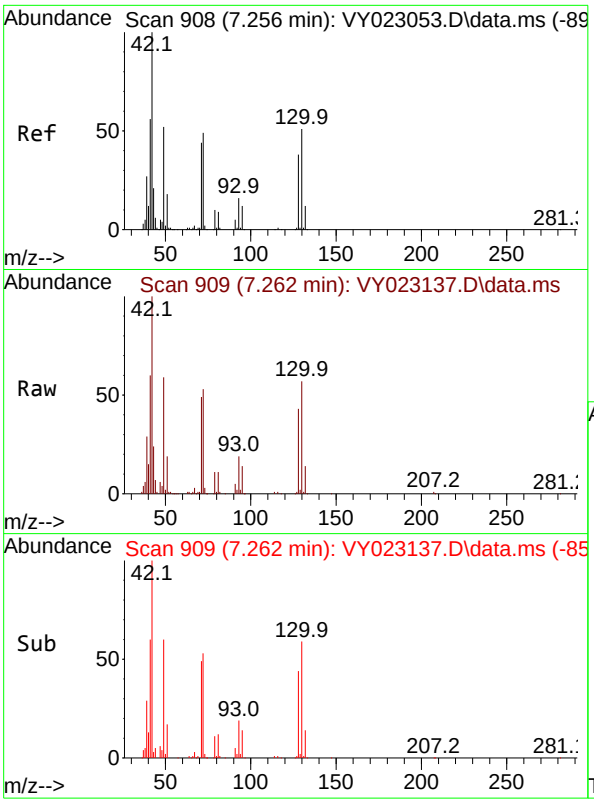




#28
Bromochloromethane
Concen: 44.509 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 49 Resp: 186381

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.3 | 0.0 | 4.2 |
| 130 | 87.8 | 66.4 | 99.6 |

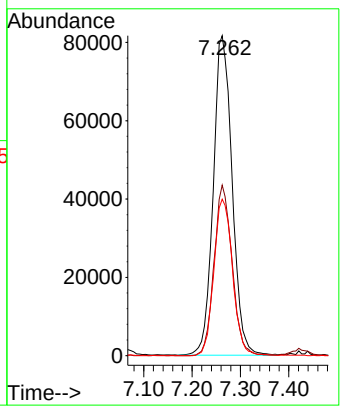





#29
Tetrahydrofuran
Concen: 226.737 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 42 Resp: 22113

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 51.1 | 39.4 | 59.2 |
| 71 | 48.6 | 36.5 | 54.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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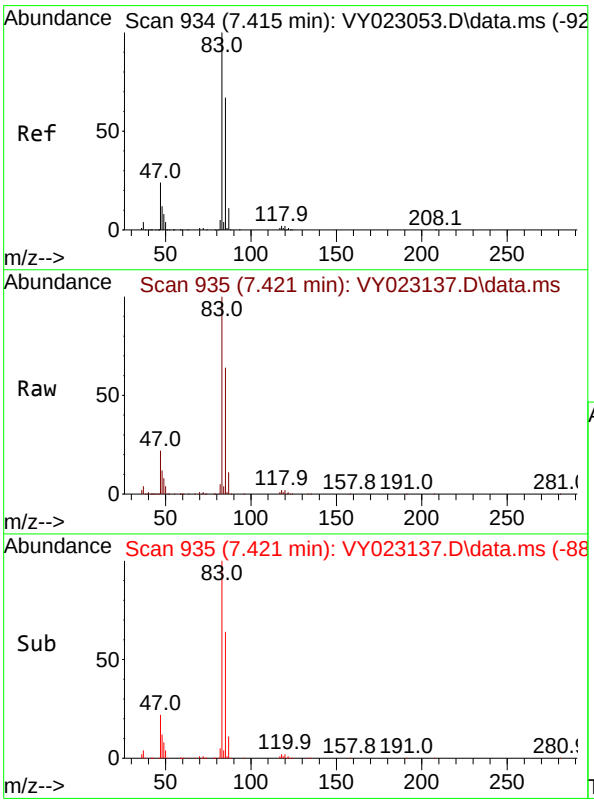
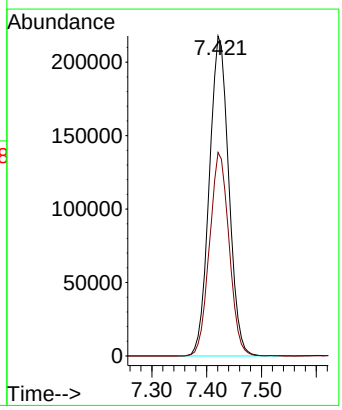
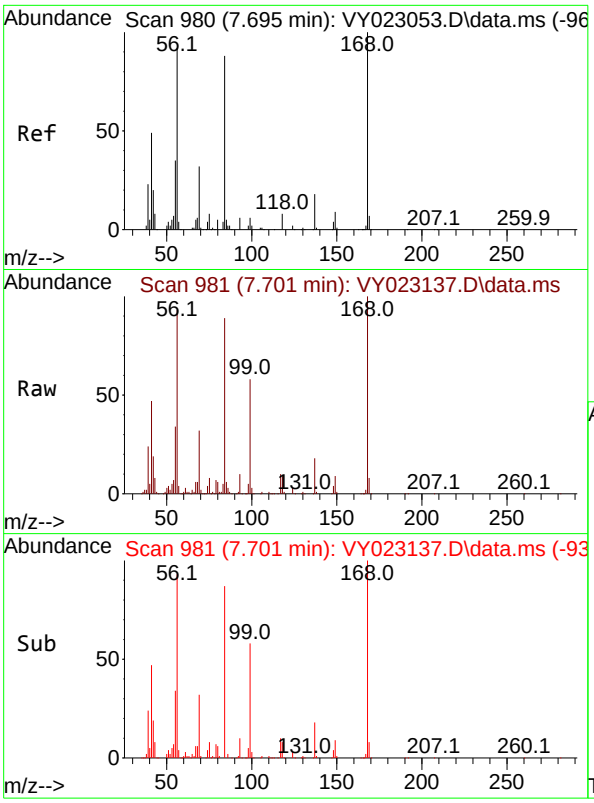



#30
Chloroform
Concen: 49.287 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 83 Resp: 536519

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.6 | 53.8 | 80.8 |

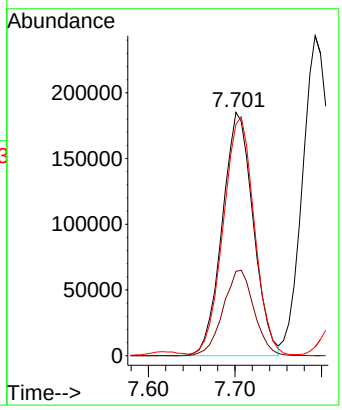





#31
Cyclohexane
Concen: 46.269 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 56 Resp: 46021

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 34.6 | 28.2 | 42.2 |
| 84 | 94.2 | 76.6 | 114.8 |




**Instrument :**
MSVOA_Y
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VSTDCCC050

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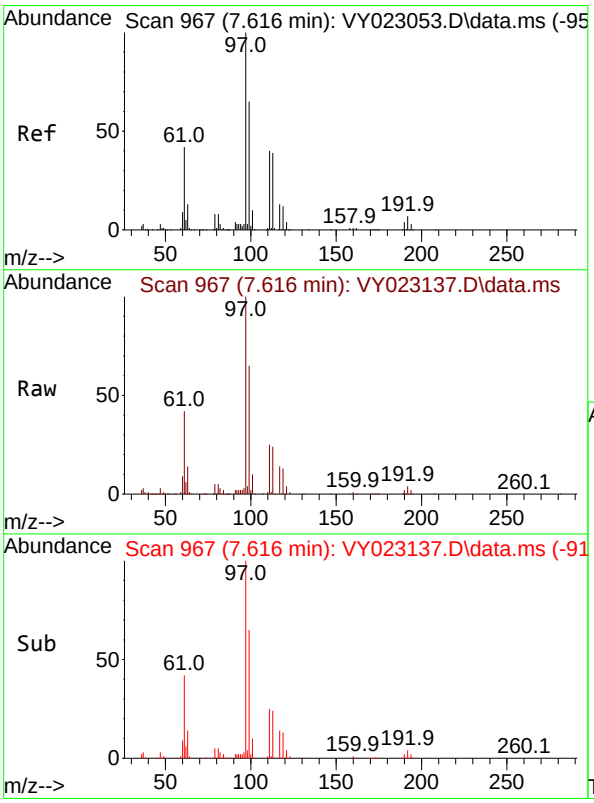
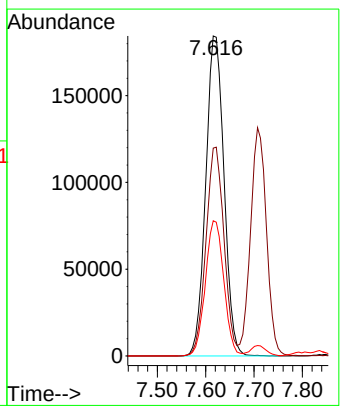
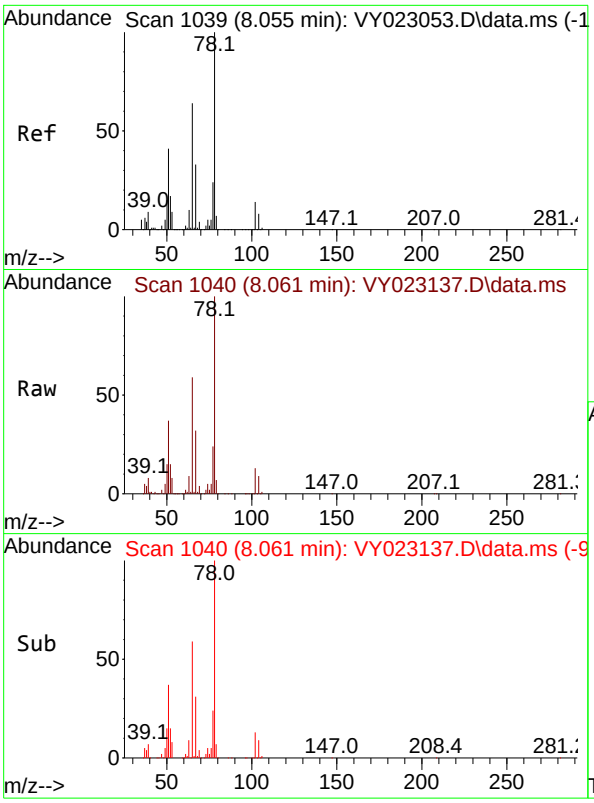



#32
1,1,1-Trichloroethane
Concen: 50.106 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 97 Resp: 483961

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.5 | 51.6 | 77.4 |
| 61 | 42.7 | 34.2 | 51.2 |

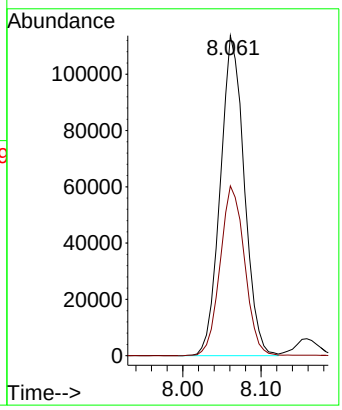





#33
1,2-Dichloroethane-d4
Concen: 45.256 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 65 Resp: 24166

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 54.3 | 0.0 | 106.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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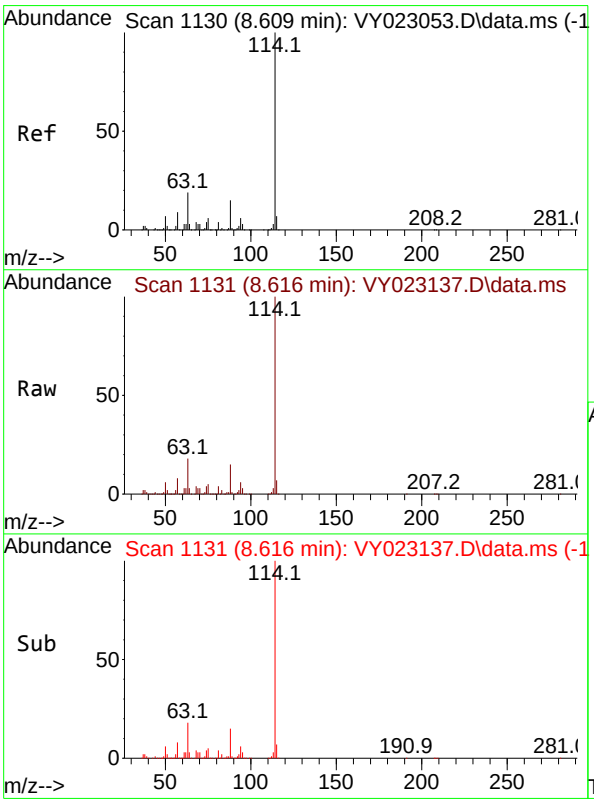
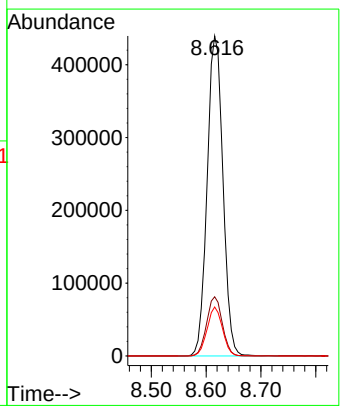
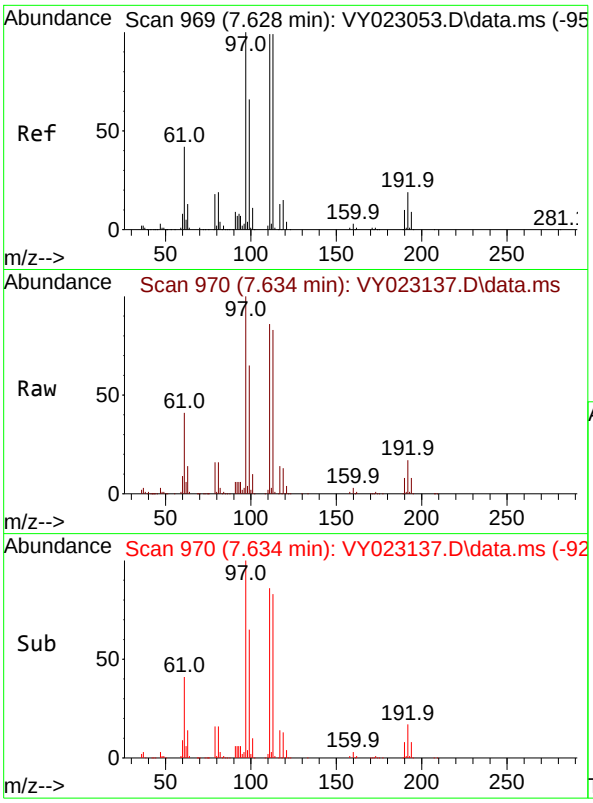



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:114 Resp: 876189

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.5 | 0.0 | 38.4 |
| 88 | 15.3 | 0.0 | 30.0 |

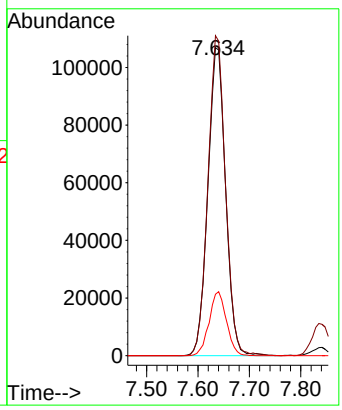





#35
Dibromofluoromethane
Concen: 48.854 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:113 Resp: 25613

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.6 | 81.1 | 121.7 |
| 192 | 20.3 | 16.2 | 24.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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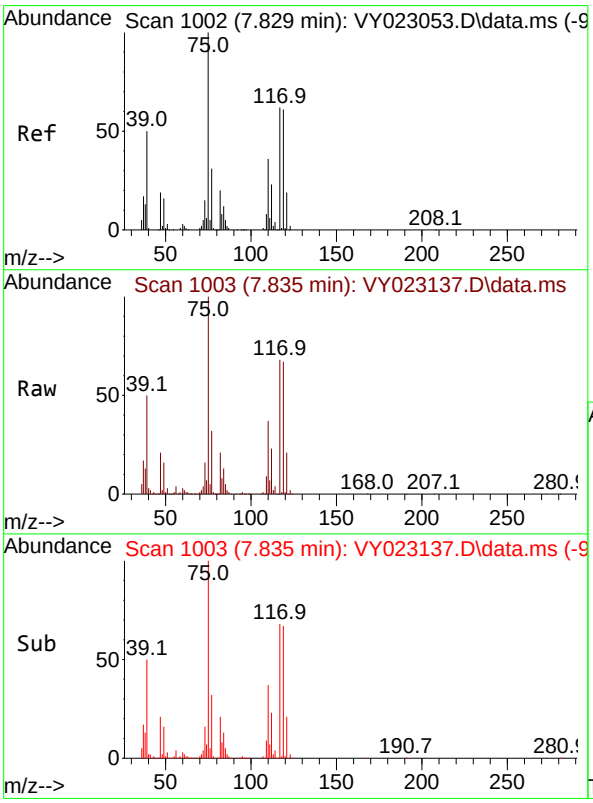
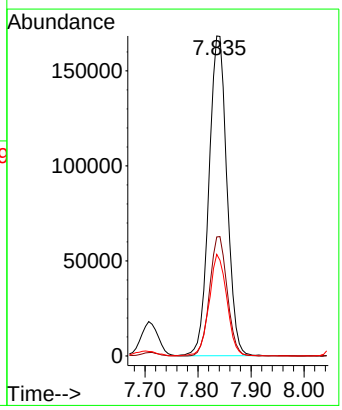
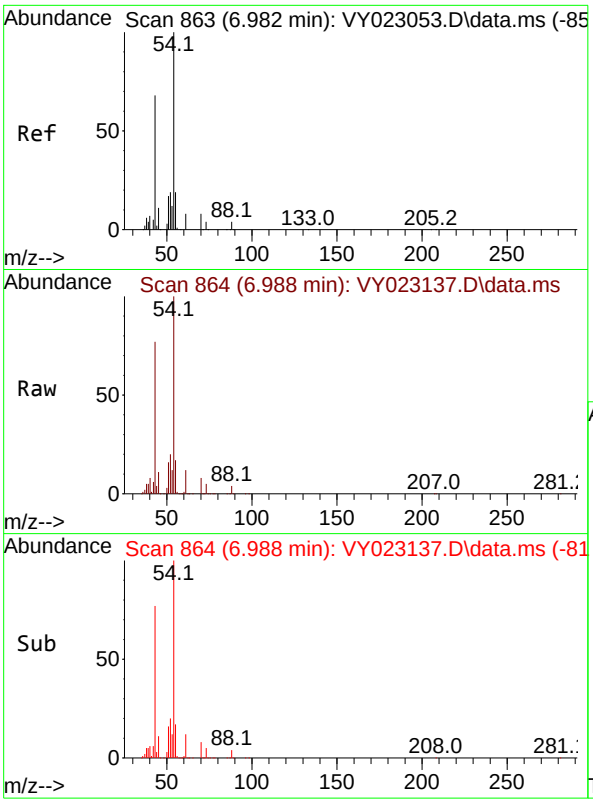



#36
1,1-Dichloropropene
Concen: 50.818 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 75 Resp: 395952

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 36.7 | 18.1 | 54.4 |
| 77 | 31.3 | 24.6 | 37.0 |






#37
Ethyl Acetate
Concen: 48.006 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 43 Resp: 15712

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.5 | 11.9 | 17.9 |
| 70 | 11.1 | 8.8 | 13.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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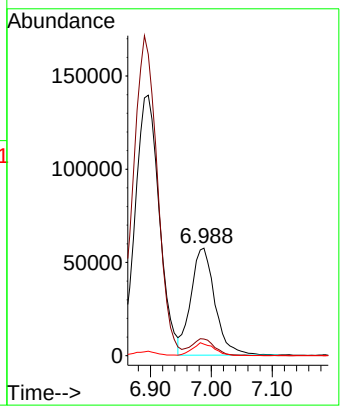
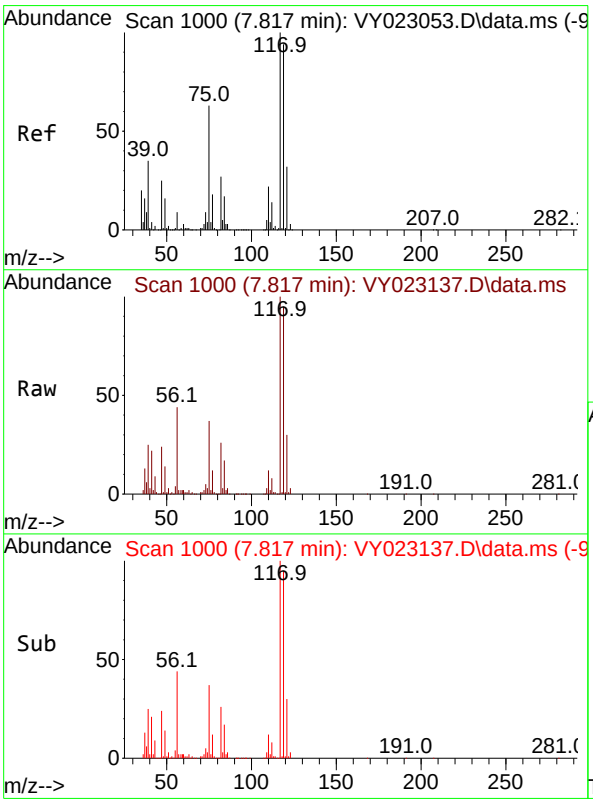
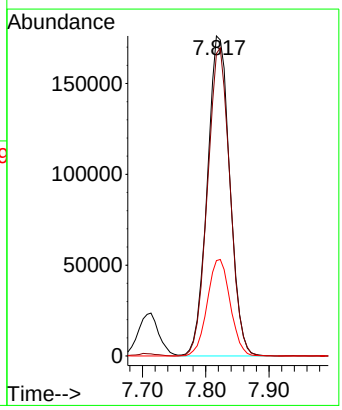


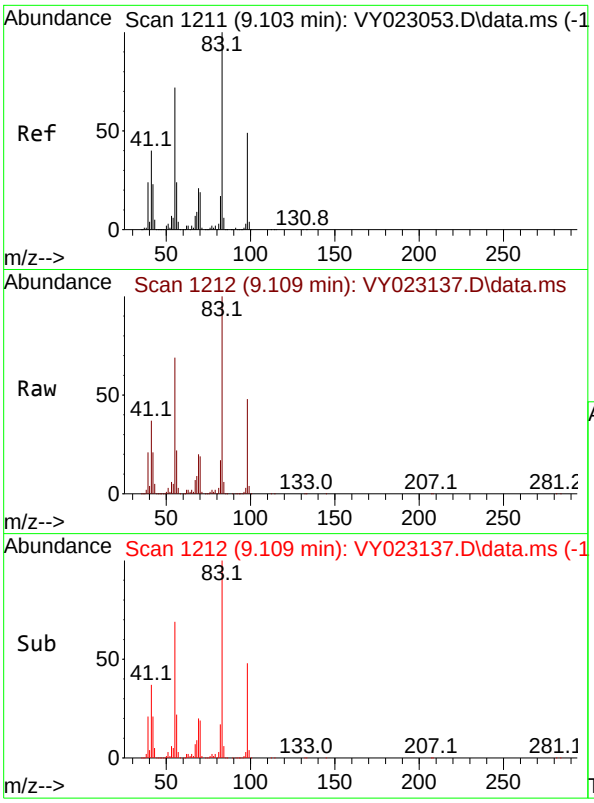




#38
Carbon Tetrachloride
Concen: 51.581 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:117 Resp: 436510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.5 | 75.6 | 113.4 |
| 121 | 29.8 | 25.8 | 38.8 |






#39
Methylcyclohexane
Concen: 51.832 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 83 Resp: 53182

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 68.7 | 57.6 | 86.4 |
| 98 | 48.0 | 39.2 | 58.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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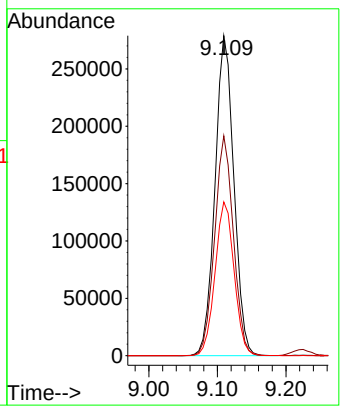
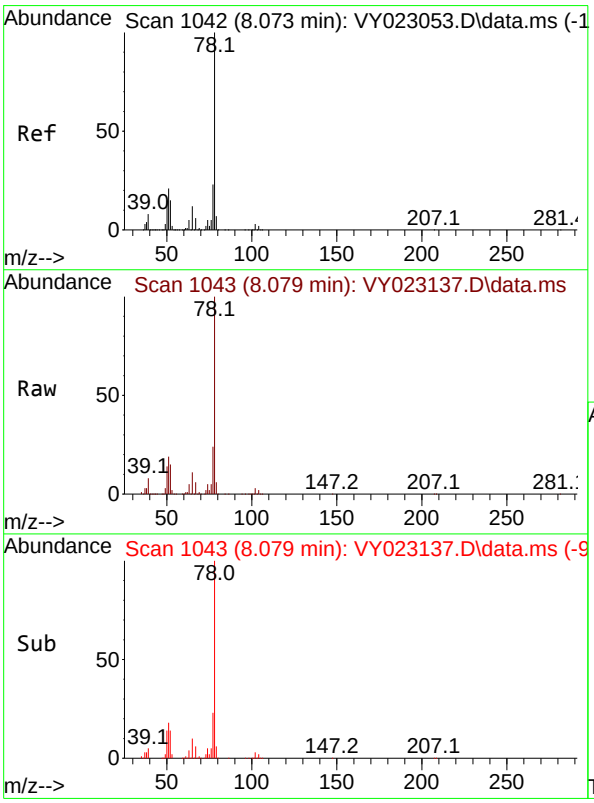
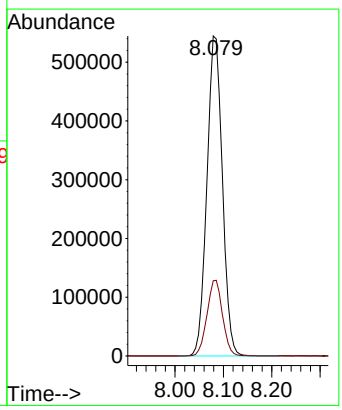


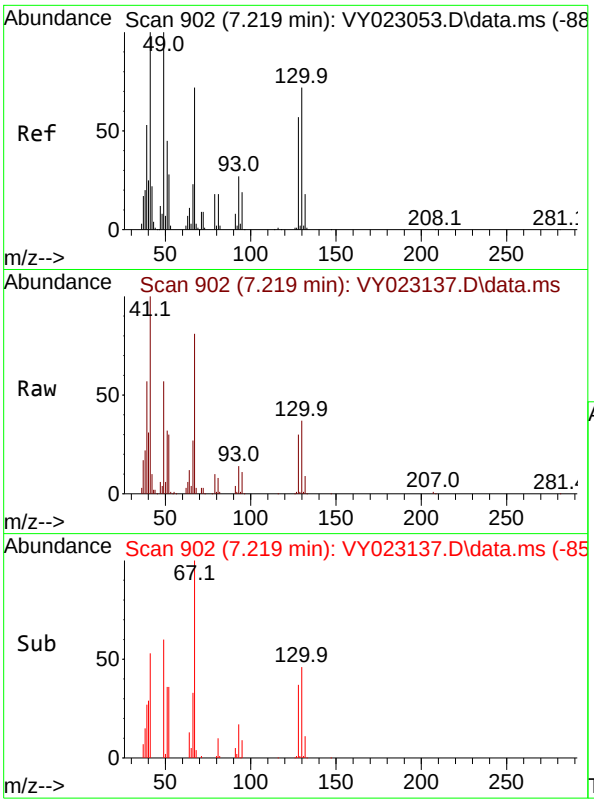




#40
Benzene
Concen: 50.401 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 78 Resp: 1210380

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.5 | 18.6 | 28.0 |

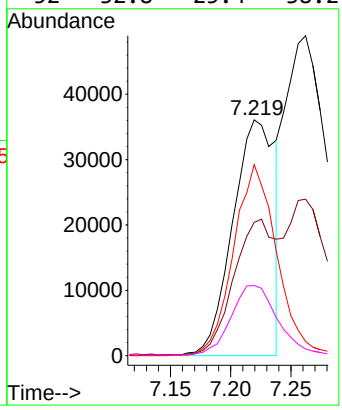





#41
Methacrylonitrile
Concen: 46.765 ug/l m
RT: 7.219 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 41 Resp: 8833

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 55.8 | 43.4 | 65.2 |
| 67 | 82.9 | 63.6 | 95.4 |
| 52 | 32.8 | 25.4 | 38.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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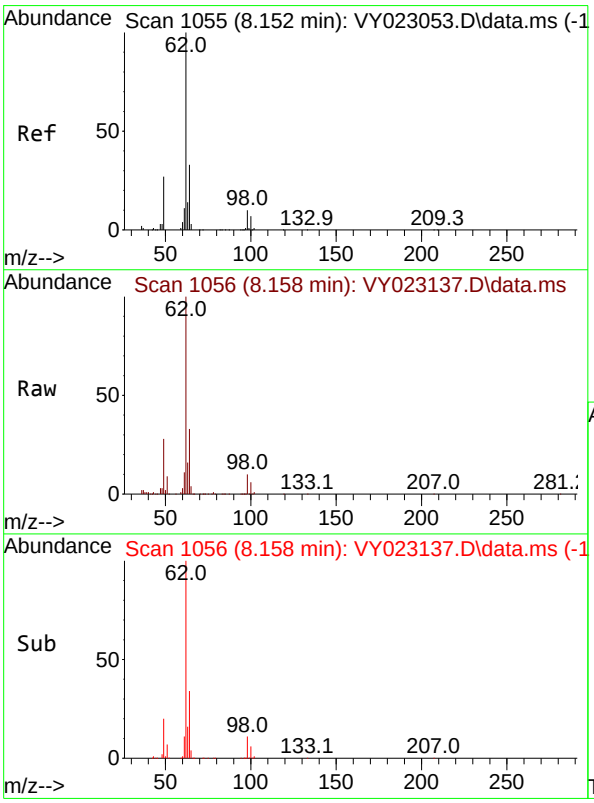
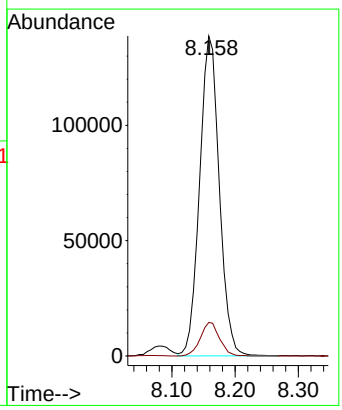
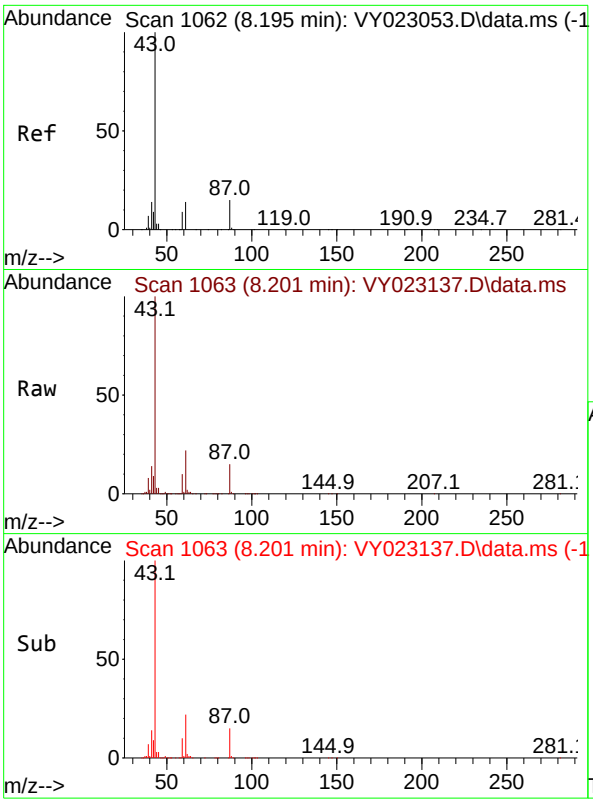



#42
1,2-Dichloroethane
Concen: 48.044 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 62 Resp: 300070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.2 | 0.0 | 20.6 |

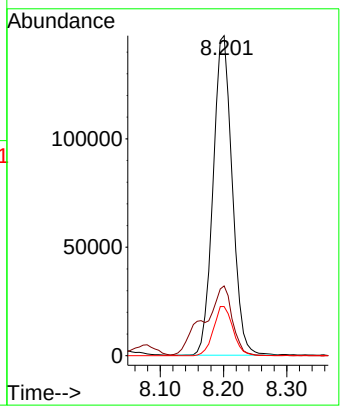





#43
Isopropyl Acetate
Concen: 46.703 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 43 Resp: 30895

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 32.2 | 16.4 | 24.6 |
| 87 | 15.7 | 11.8 | 17.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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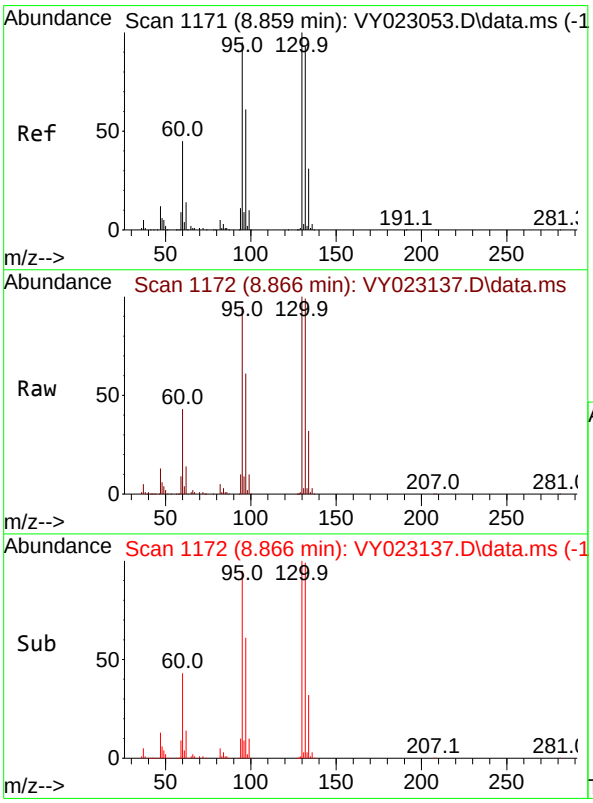
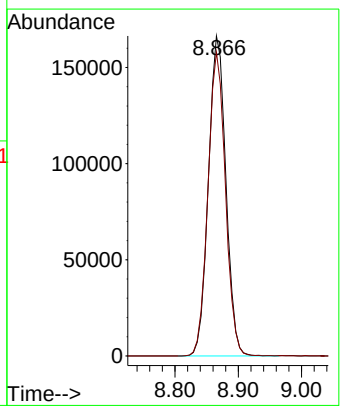
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

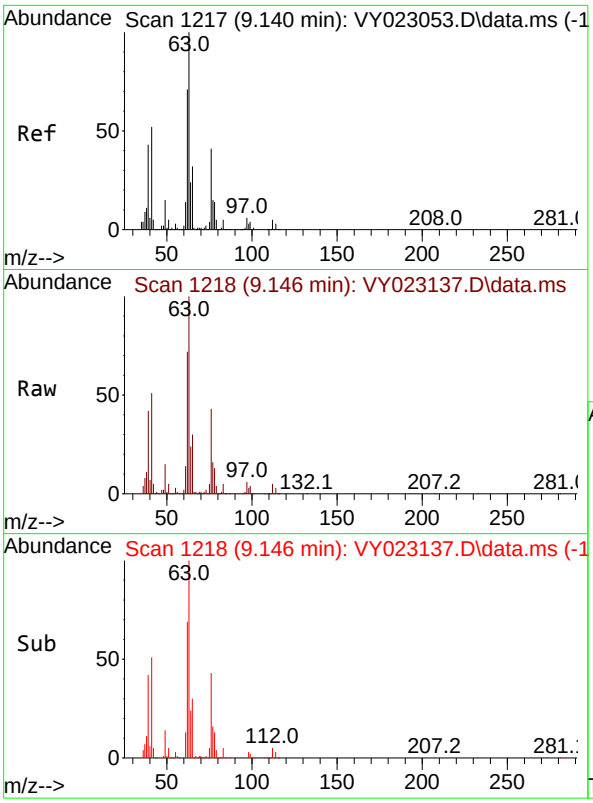



#44
Trichloroethene
Concen: 51.463 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:130 Resp: 319381

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 95.0 | 0.0 | 190.2 |

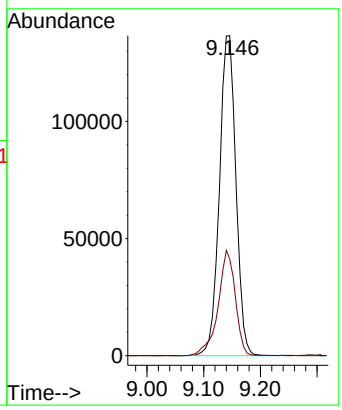





#45
1,2-Dichloropropane
Concen: 50.044 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 63 Resp: 27652

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.2 | 25.3 | 37.9 |




**Instrument :**
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VSTDCCC050

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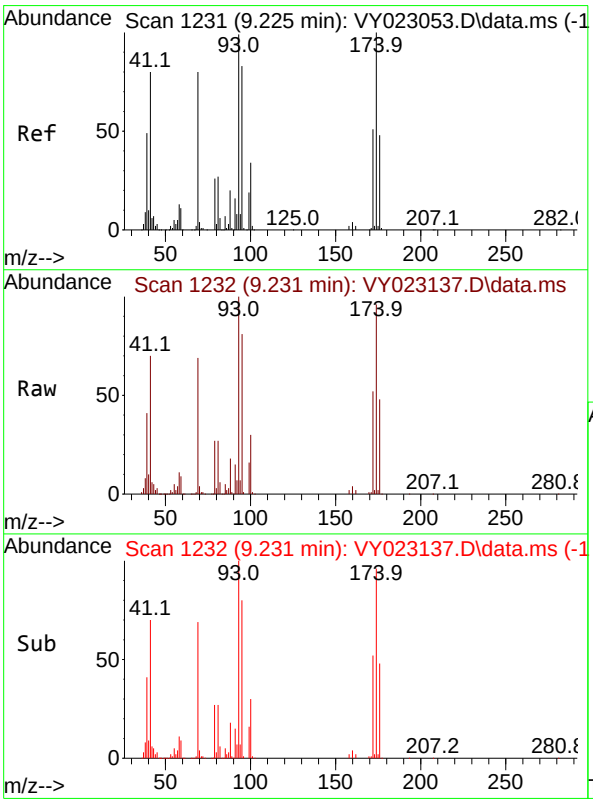
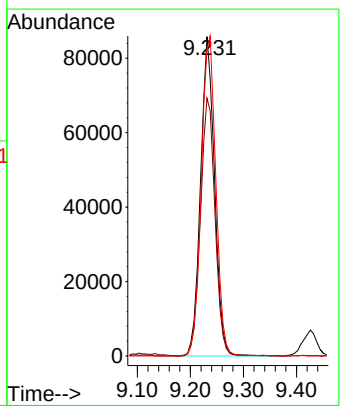
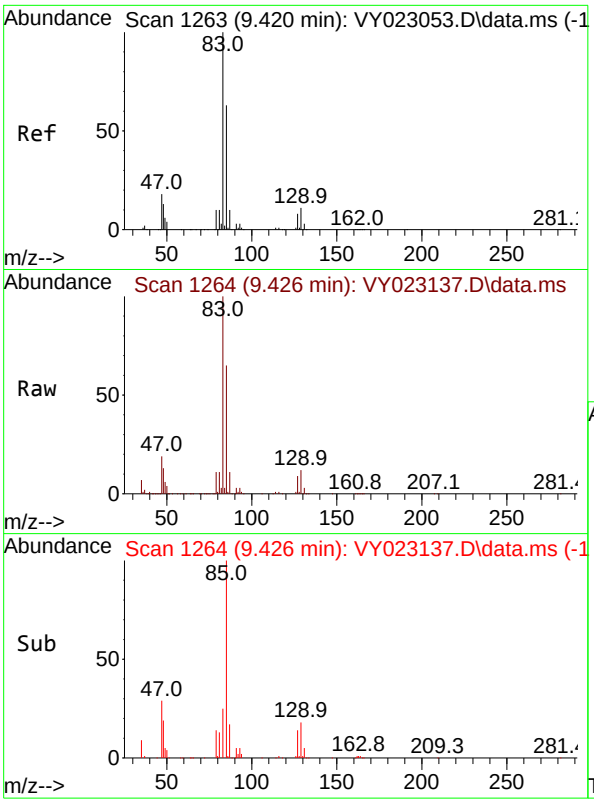



#46
Dibromomethane
Concen: 49.637 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 93 Resp: 157422

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 83.8 | 66.5 | 99.7 |
| 174 | 103.7 | 81.8 | 122.8 |

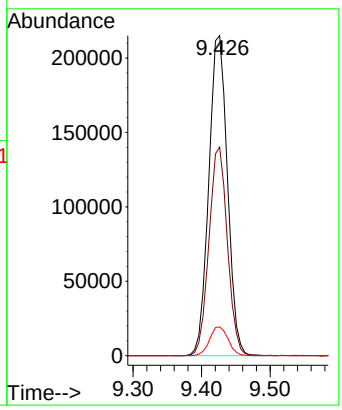





#47
Bromodichloromethane
Concen: 49.781 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 83 Resp: 40624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.2 | 50.2 | 75.4 |
| 127 | 9.0 | 6.6 | 10.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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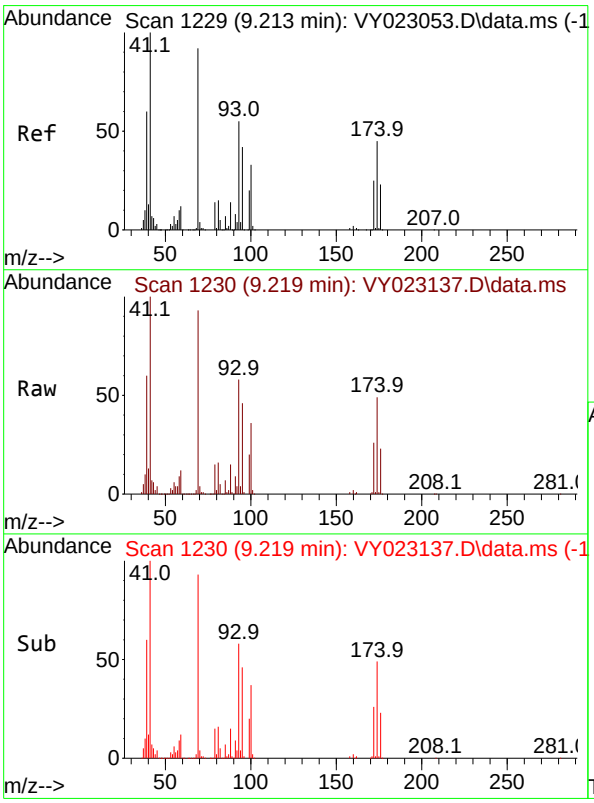
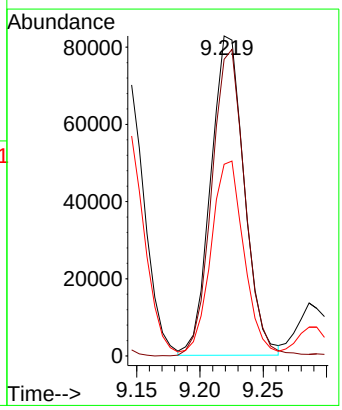
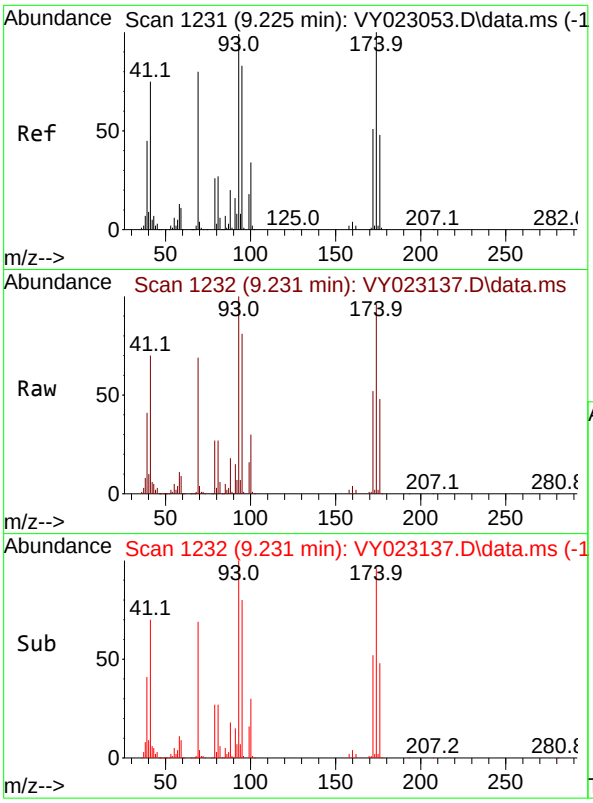



#48
Methyl methacrylate
Concen: 48.023 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 41 Resp: 152020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 95.3 | 73.2 | 109.8 |
| 39 | 58.1 | 47.0 | 70.4 |

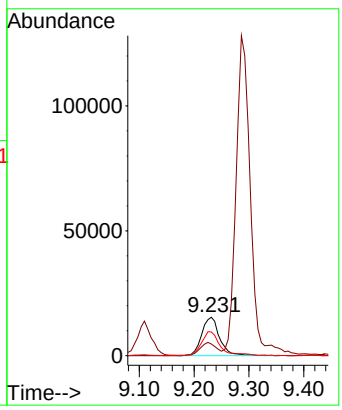





#49
1,4-Dioxane
Concen: 934.713 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 88 Resp: 3475

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 30.0 | 24.3 | 36.5 |
| 58 | 65.6 | 55.4 | 83.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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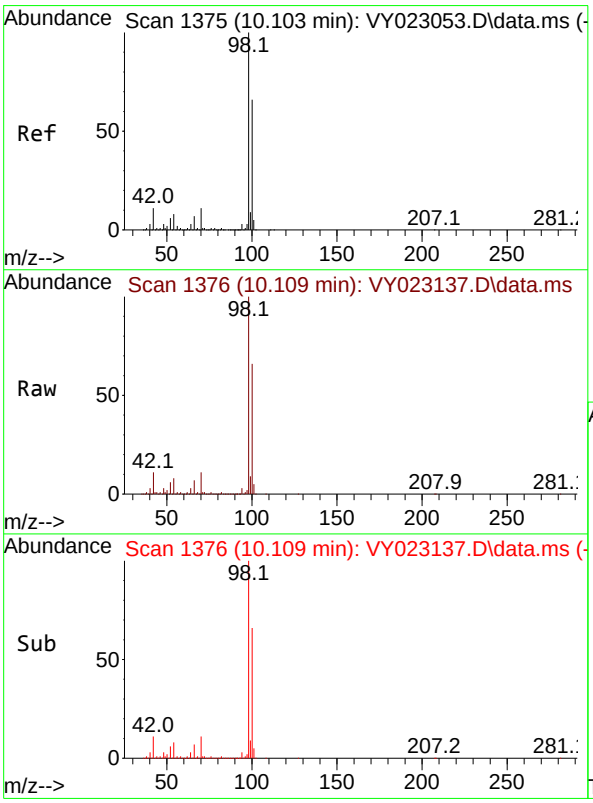
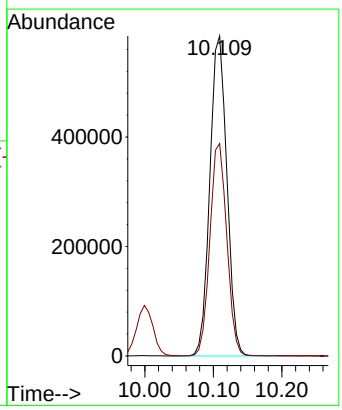
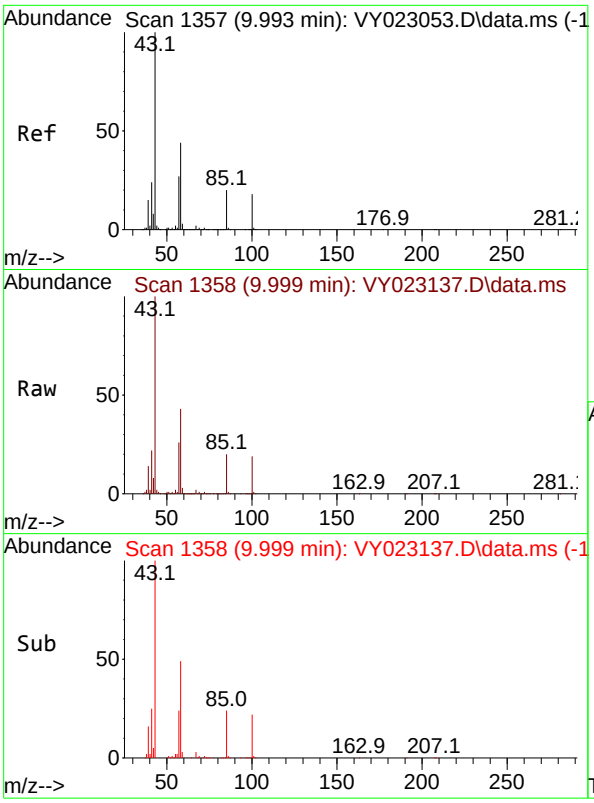



#50
Toluene-d8
Concen: 49.217 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 98 Resp: 1008048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.9 | 52.3 | 78.5 |

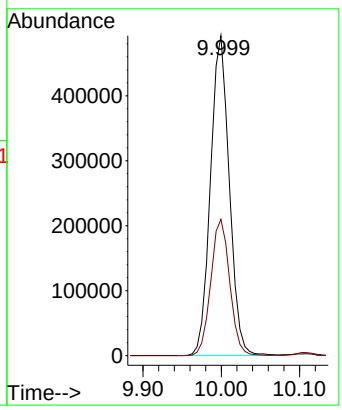





#51
4-Methyl-2-Pentanone
Concen: 240.906 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 43 Resp: 82206

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 43.0 | 33.5 | 50.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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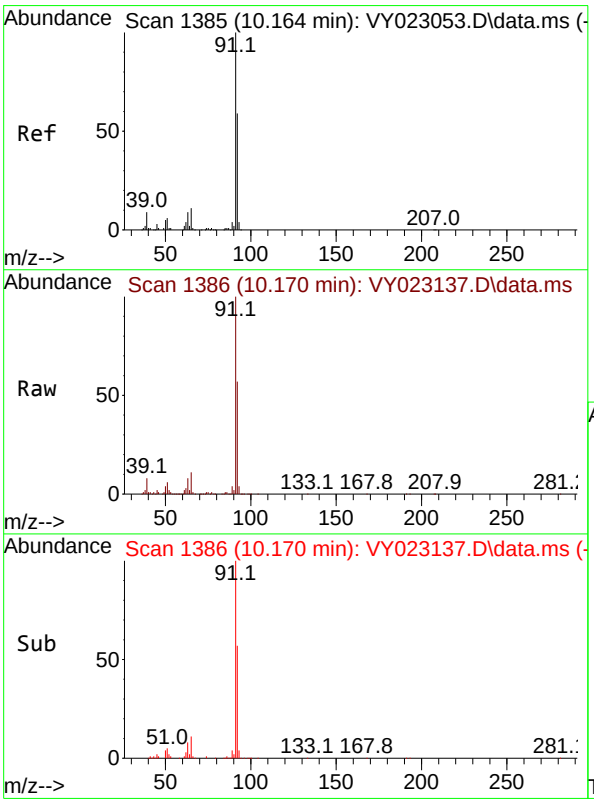
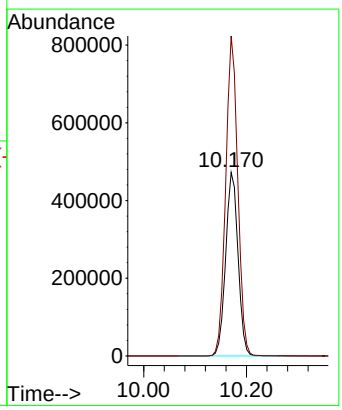
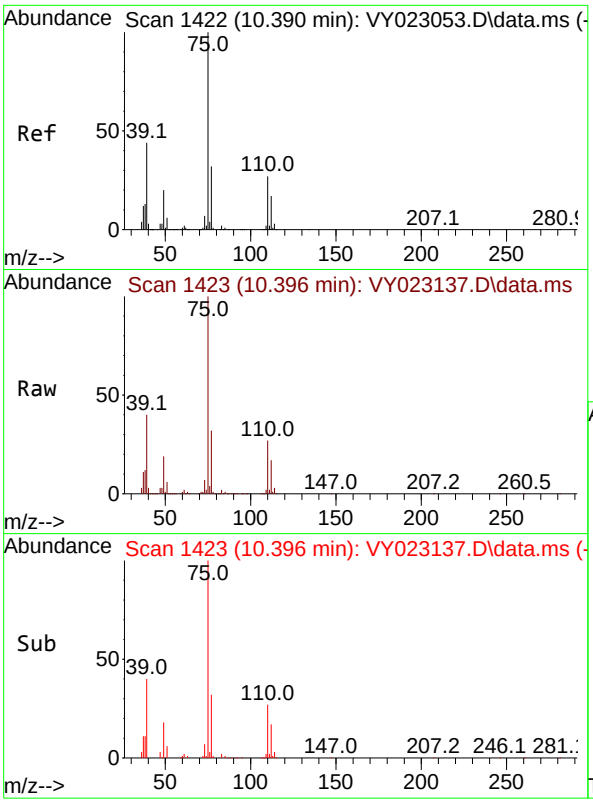



#52
Toluene
Concen: 51.669 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 92 Resp: 788070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 170.0 | 136.4 | 204.6 |






#53
t-1,3-Dichloropropene
Concen: 51.112 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 75 Resp: 37770

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.9 | 25.7 | 38.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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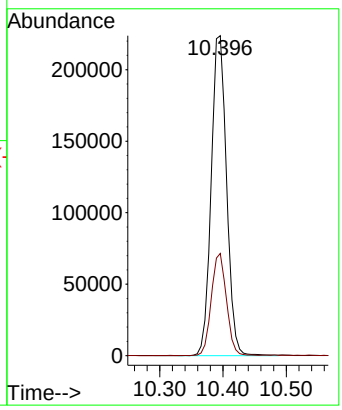
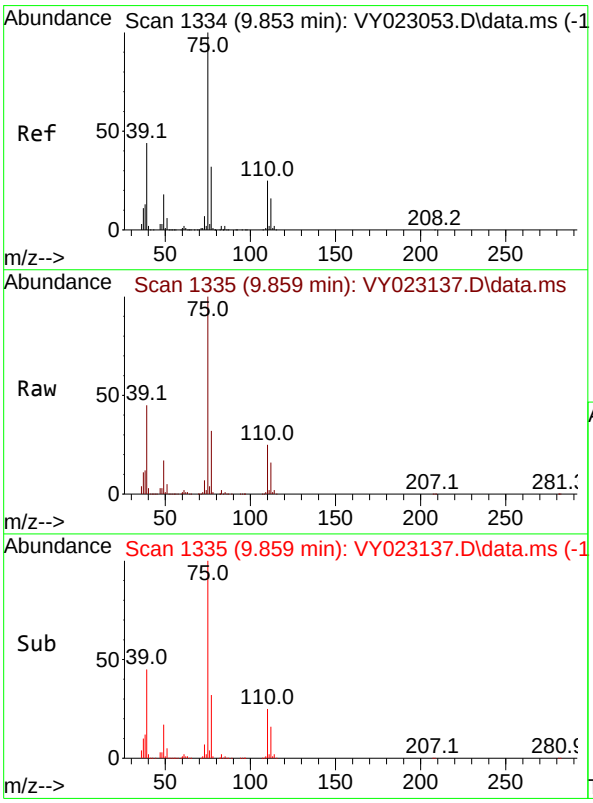
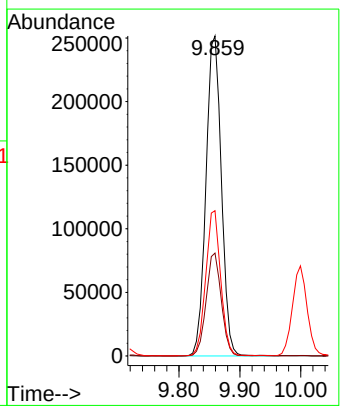


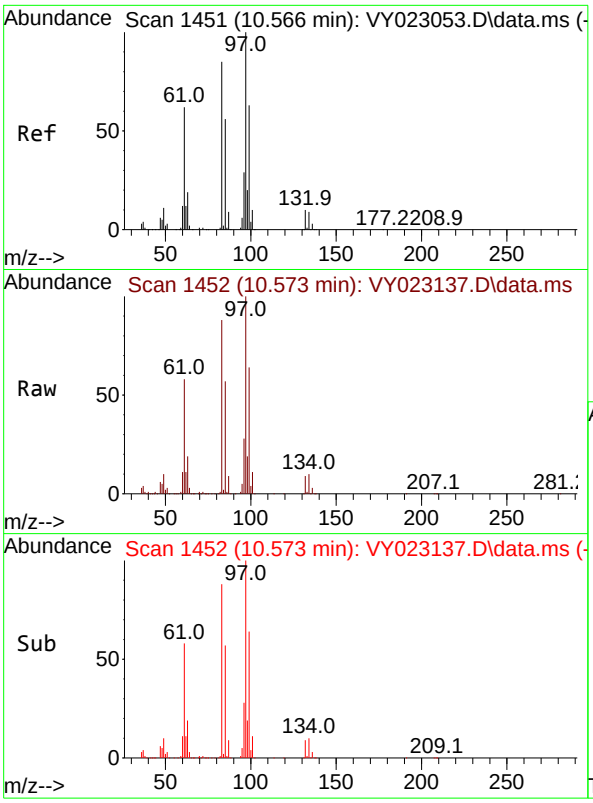




#54
cis-1,3-Dichloropropene
Concen: 50.516 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 75 Resp: 441435

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.1 | 25.4 | 38.0 |
| 39 | 45.3 | 35.6 | 53.4 |

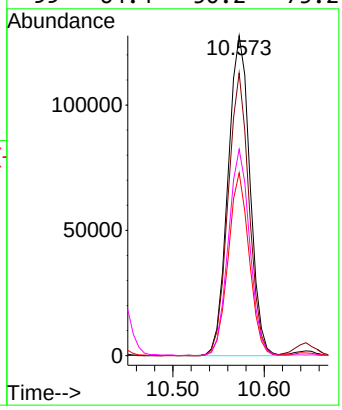





#55
1,1,2-Trichloroethane
Concen: 50.206 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 97 Resp: 21306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 88.4 | 67.7 | 101.5 |
| 85 | 57.1 | 44.5 | 66.7 |
| 99 | 64.4 | 50.2 | 75.2 |




**Instrument :**
MSVOA_Y
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VSTDCCC050

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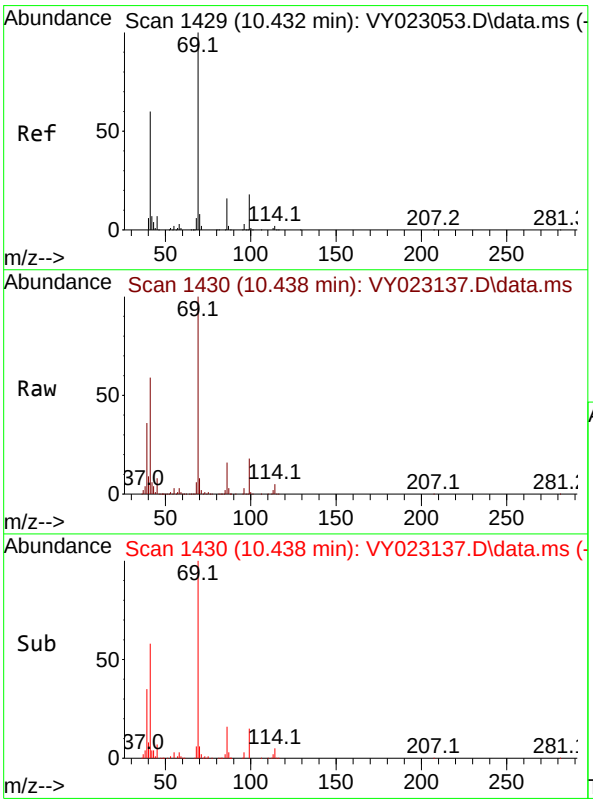
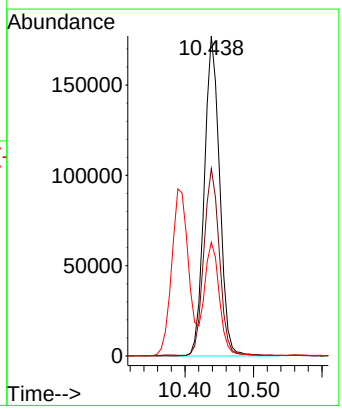
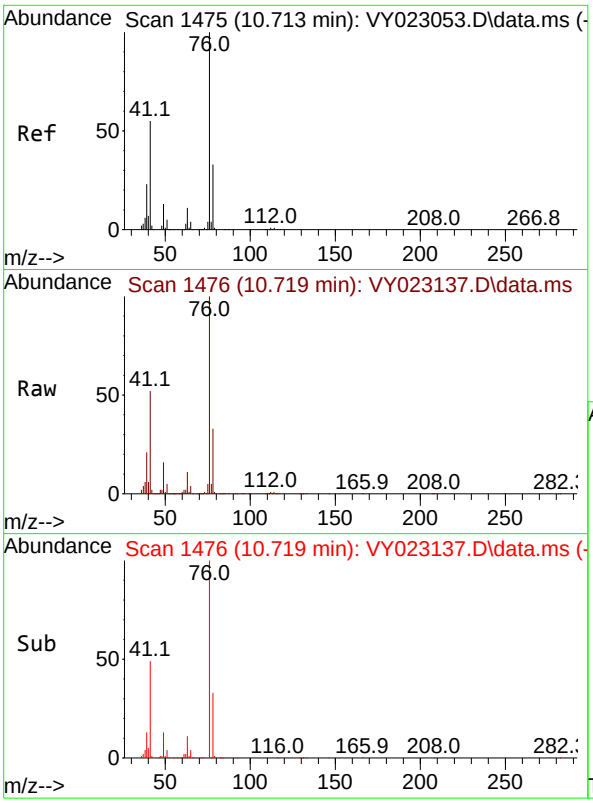



#56
Ethyl methacrylate
Concen: 50.859 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 69 Resp: 276182

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 59.0 | 48.6 | 72.8 |
| 39 | 33.7 | 27.0 | 40.4 |

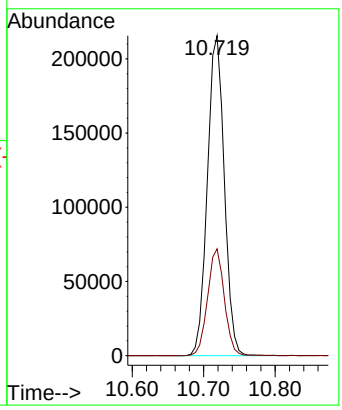





#57
1,3-Dichloropropane
Concen: 49.273 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 76 Resp: 35462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 33.0 | 26.0 | 39.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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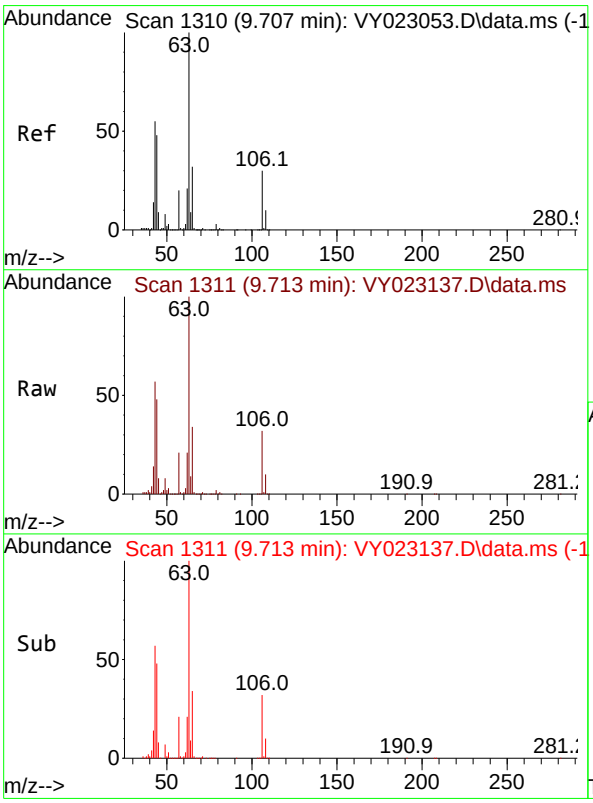
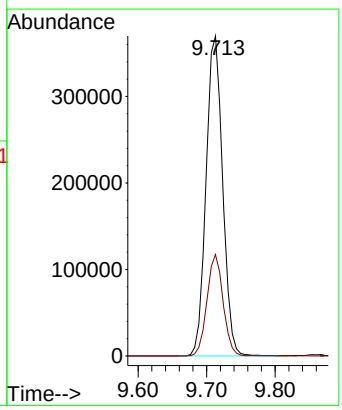
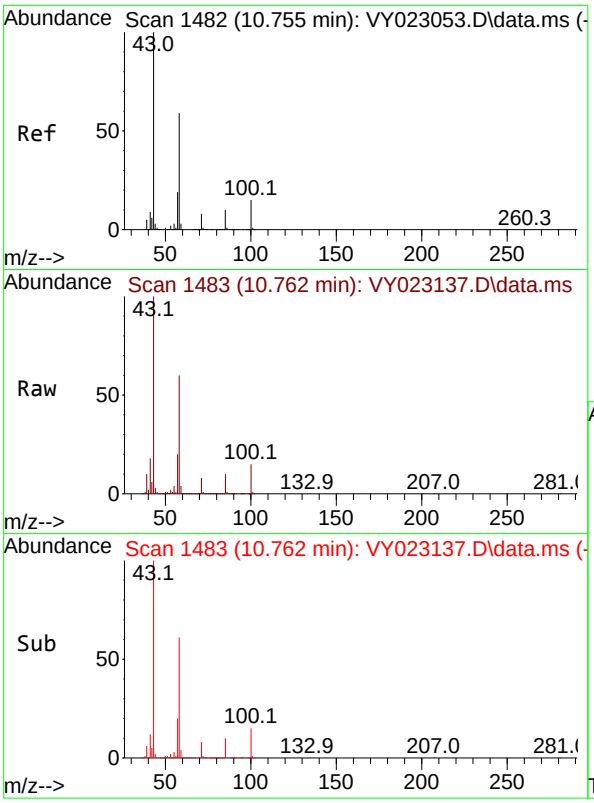



#58
2-Chloroethyl Vinyl ether
Concen: 242.835 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 63 Resp: 622022

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 30.8 | 23.2 | 34.8 |






#59
2-Hexanone
Concen: 254.865 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 43 Resp: 59220

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 60.2 | 29.5 | 88.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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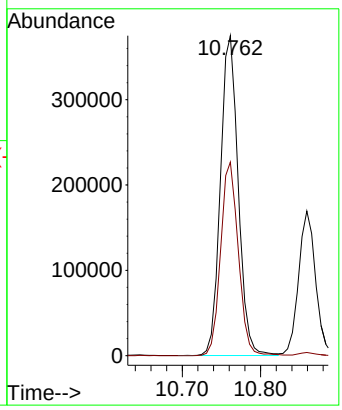
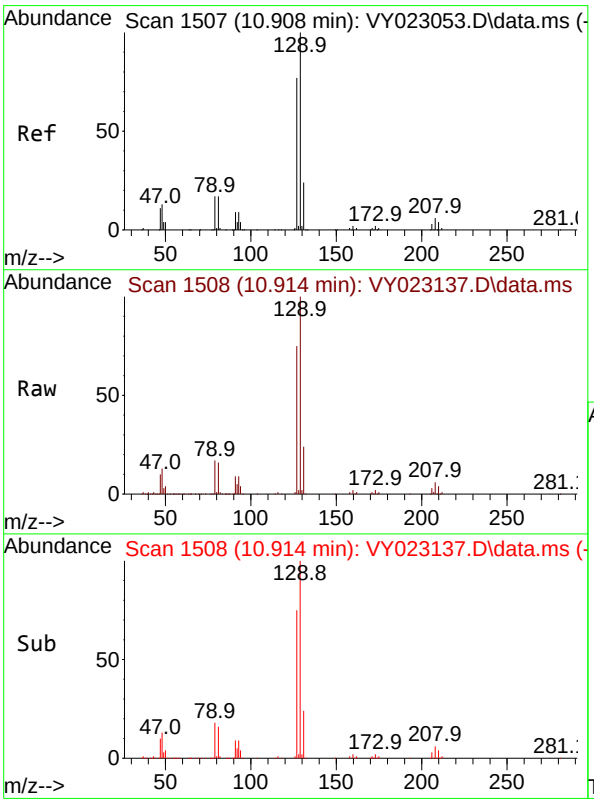
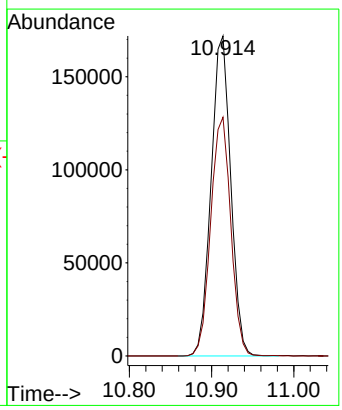


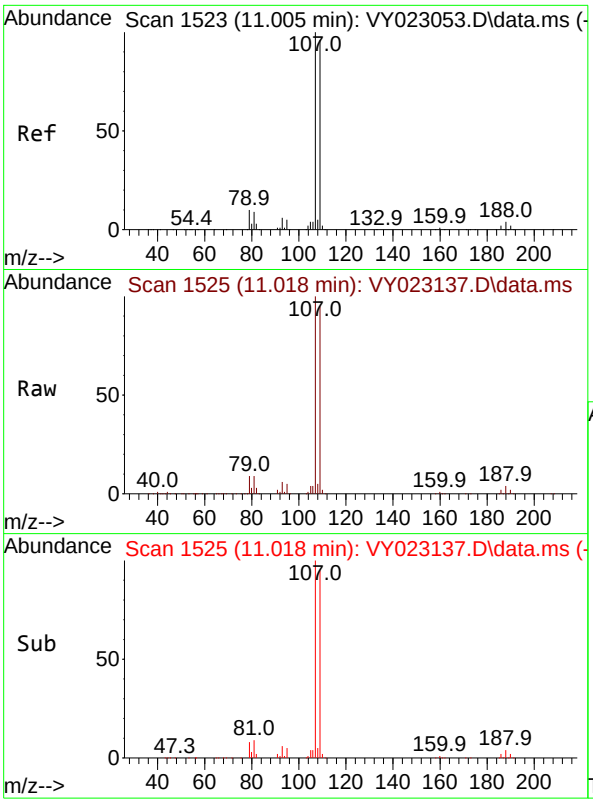




#60
Dibromochloromethane
Concen: 50.963 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:129 Resp: 285374

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 76.2 | 38.5 | 115.5 |






#61
1,2-Dibromoethane
Concen: 50.411 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

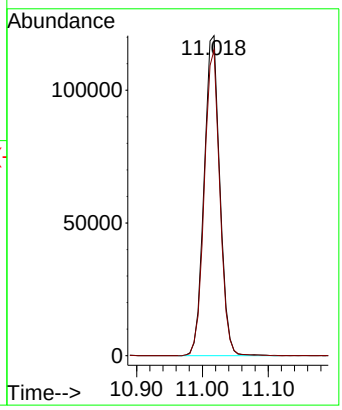
Tgt Ion:107 Resp: 20107

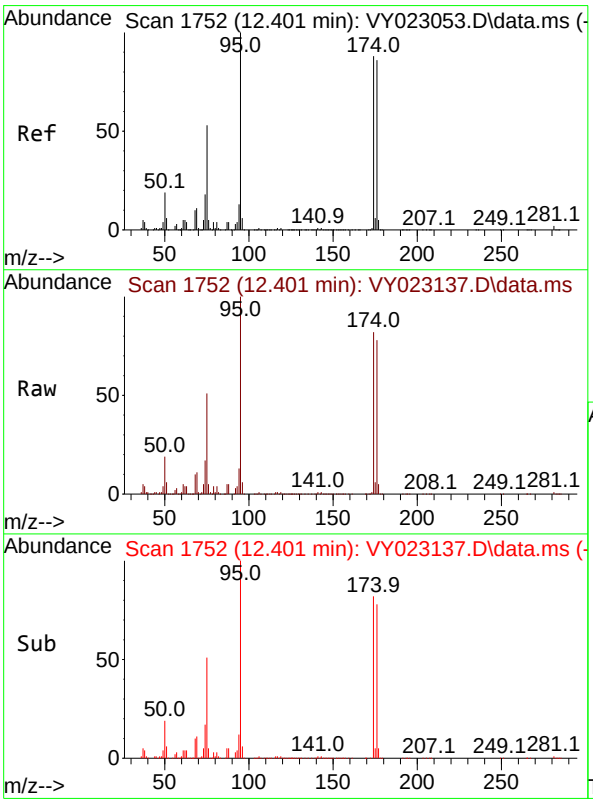
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.2 | 75.6 | 113.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

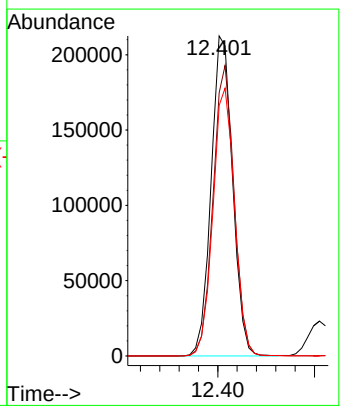


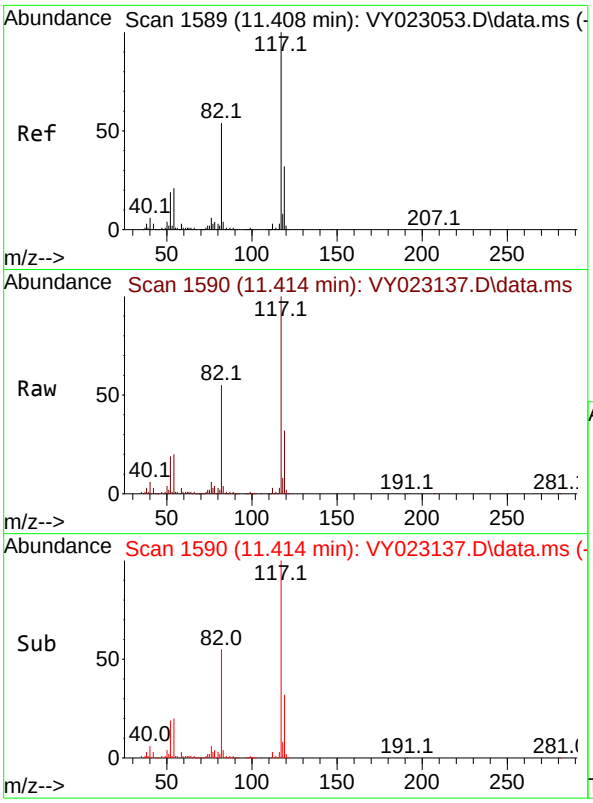




#62
4-Bromofluorobenzene
Concen: 49.618 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 95 Resp: 326827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 89.2 | 0.0 | 171.6 |
| 176 | 84.4 | 0.0 | 167.6 |






#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:117 Resp: 76178

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.8 | 43.4 | 65.0 |
| 119 | 31.8 | 25.6 | 38.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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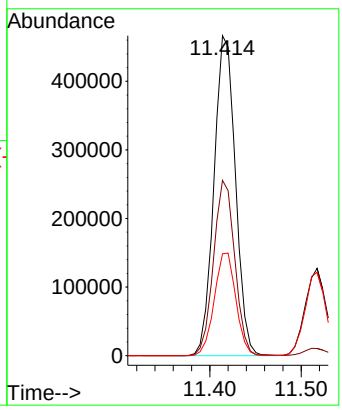
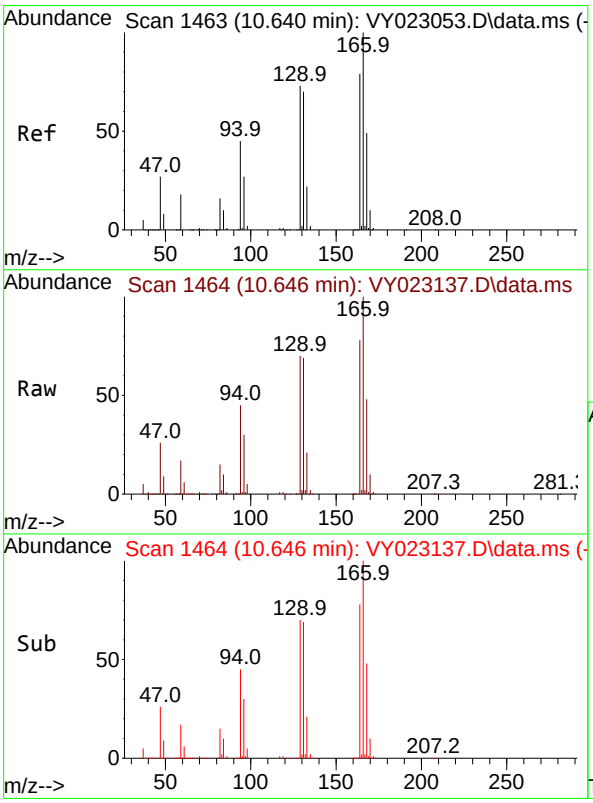
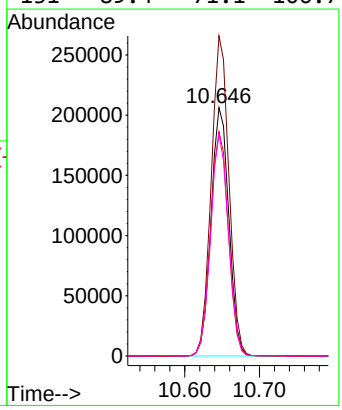


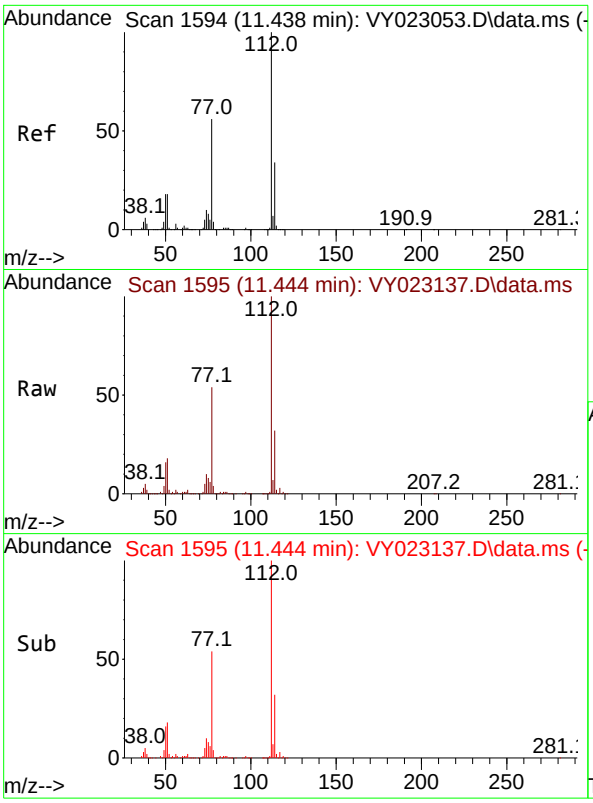




#64
Tetrachloroethene
Concen: 50.340 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:164 Resp: 342427

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 128.9 | 101.1 | 151.7 |
| 129 | 90.3 | 74.0 | 111.0 |
| 131 | 89.4 | 71.1 | 106.7 |

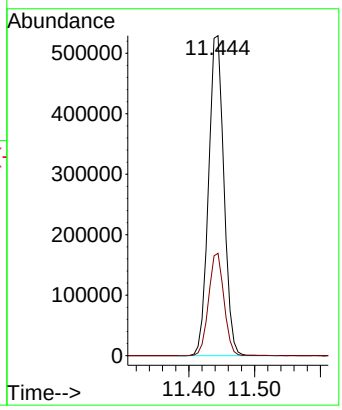





#65
Chlorobenzene
Concen: 52.238 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:112 Resp: 85836

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.0 | 27.0 | 40.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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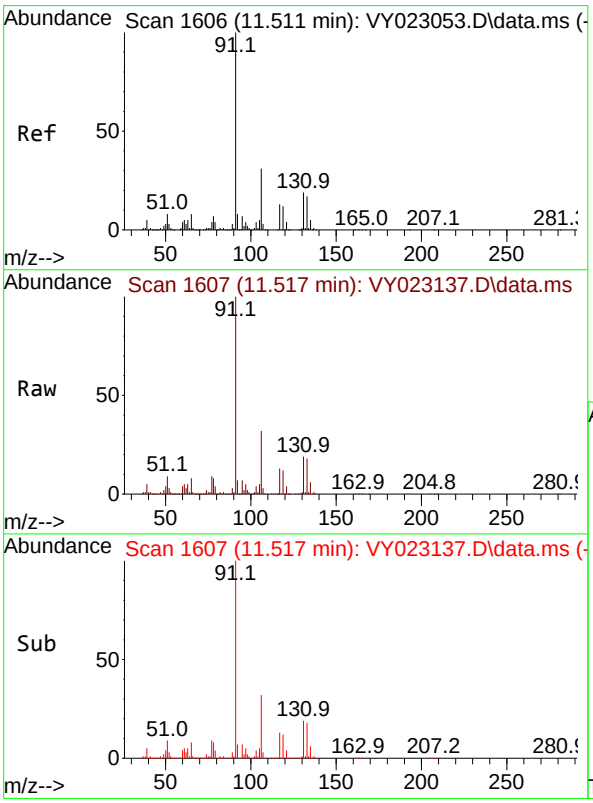
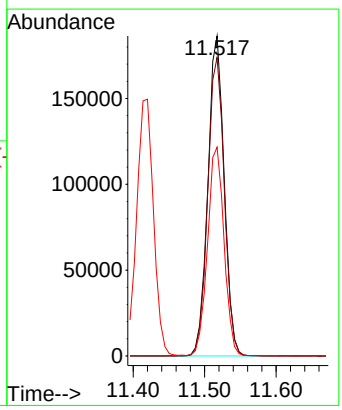
Supervised By :Mahesh Dadoda 08/20/2025

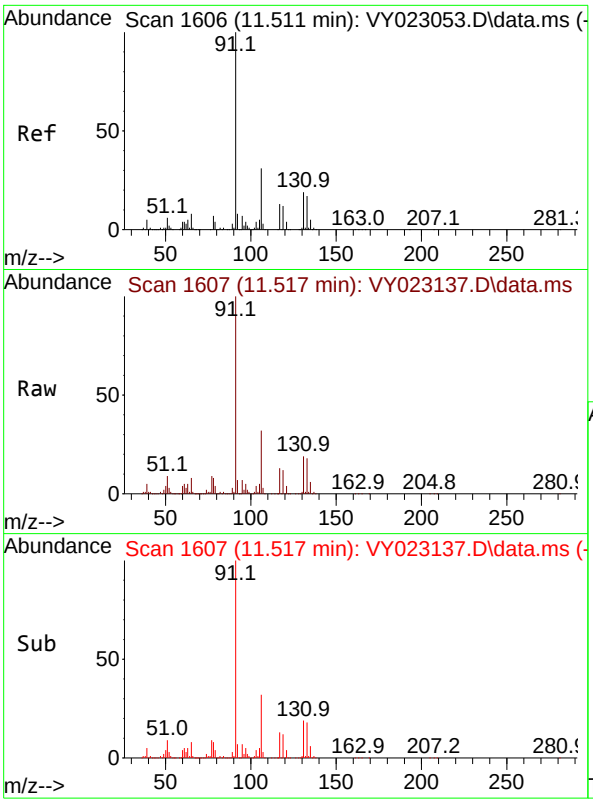



#66
1,1,1,2-Tetrachloroethane
Concen: 52.900 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:131 Resp: 295011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.9 | 46.9 | 140.6 |
| 119 | 66.2 | 33.2 | 99.6 |

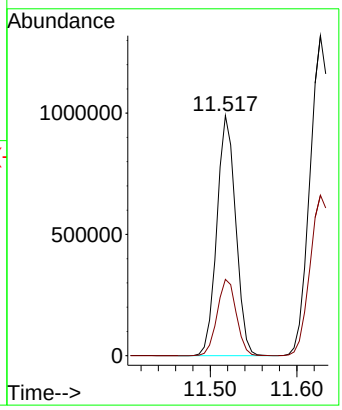





#67
Ethyl Benzene
Concen: 52.850 ug/l
RT: 11.517 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 91 Resp: 149446

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.8 | 25.0 | 37.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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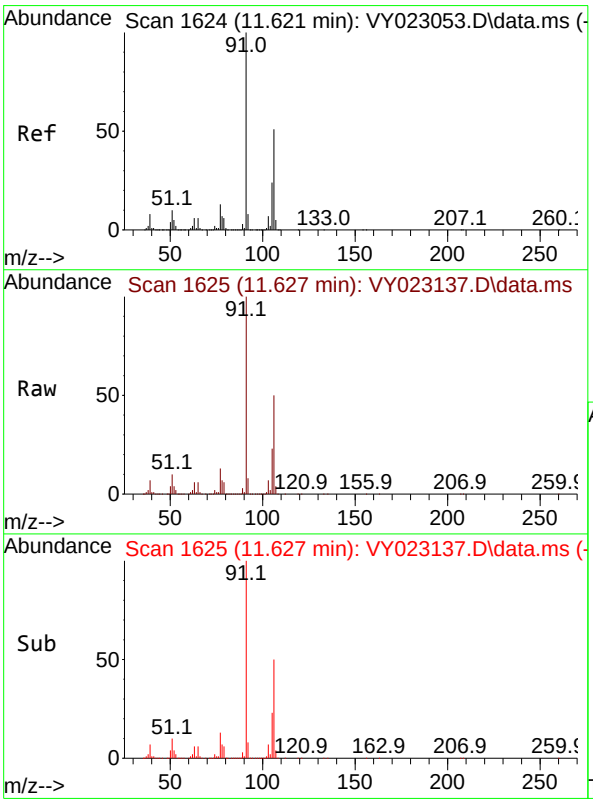
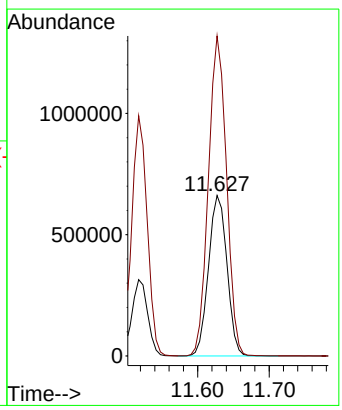
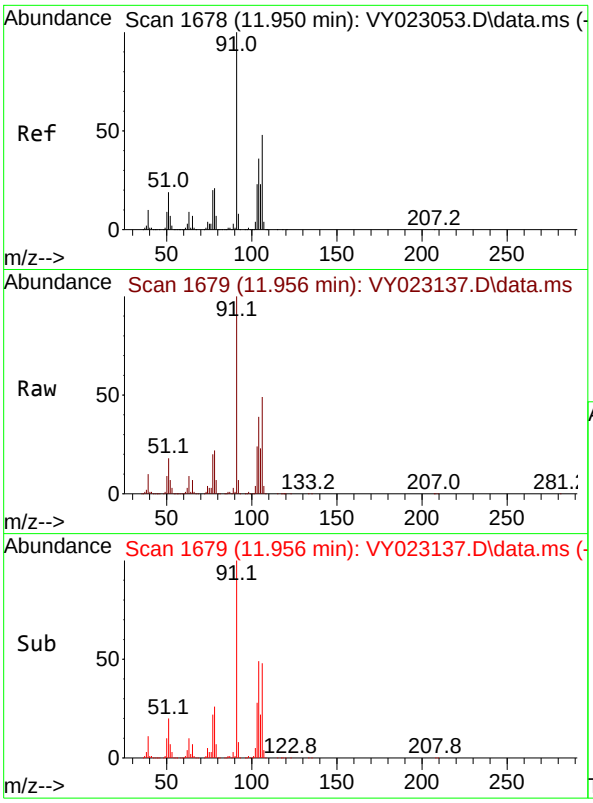



#68
m/p-Xylenes
Concen: 107.397 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:106 Resp: 1186104

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 195.6 | 158.6 | 238.0 |

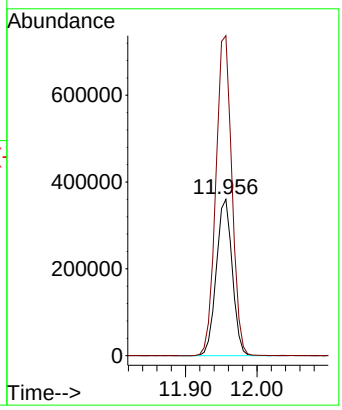





#69
o-Xylene
Concen: 53.940 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:106 Resp: 55795

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 205.8 | 103.2 | 309.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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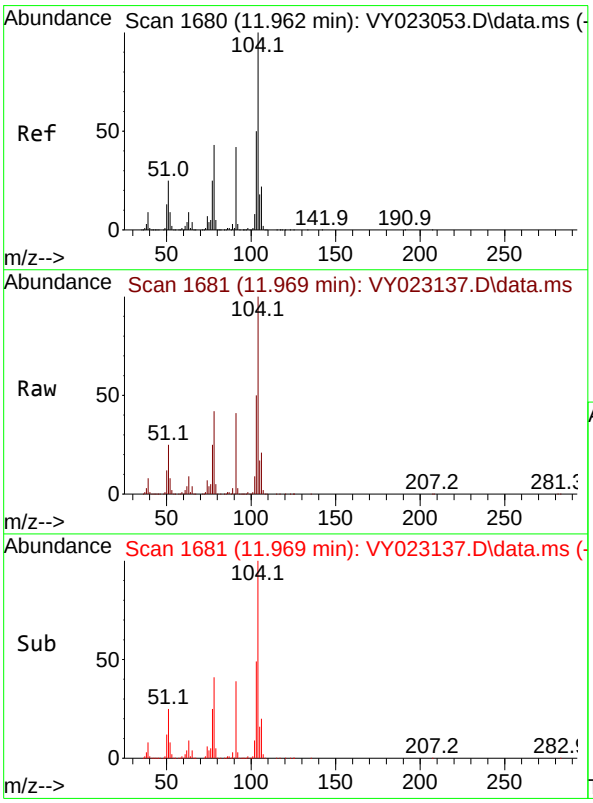
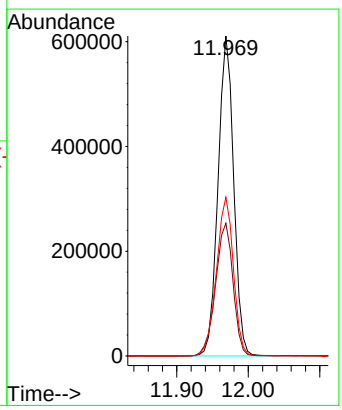
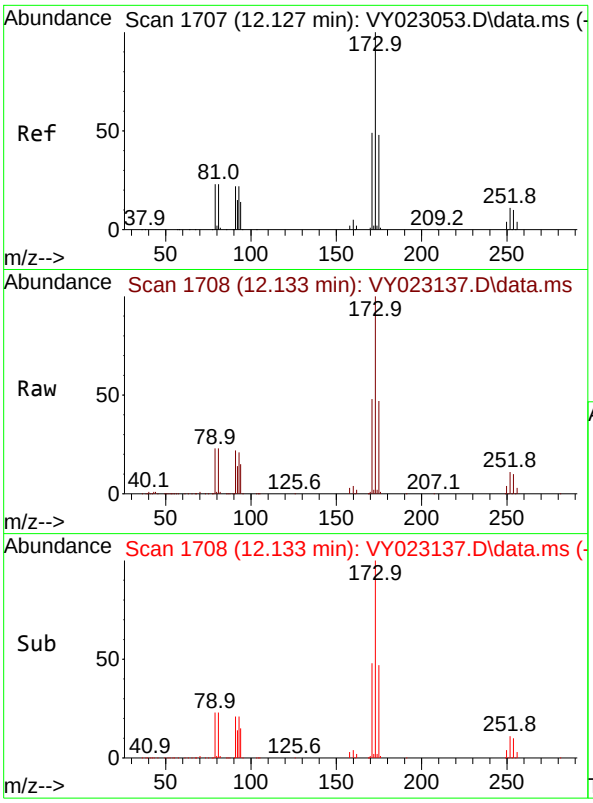



#70
Styrene
Concen: 55.007 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:104 Resp: 930498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 46.3 | 38.5 | 57.7 |
| 103 | 54.0 | 43.7 | 65.5 |

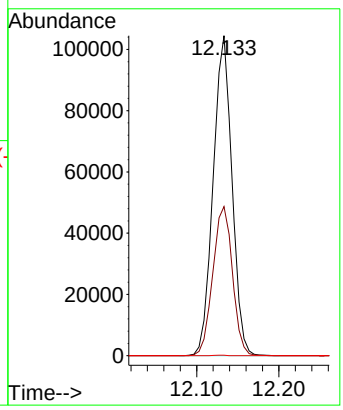





#71
Bromoform
Concen: 51.022 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:173 Resp: 16629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.5 | 23.9 | 71.7 |
| 254 | 0.1 | 0.1 | 0.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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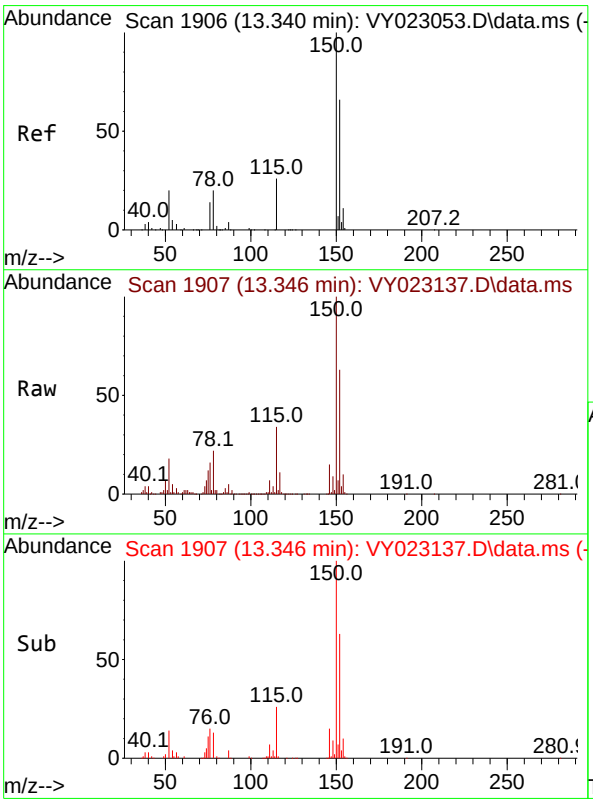
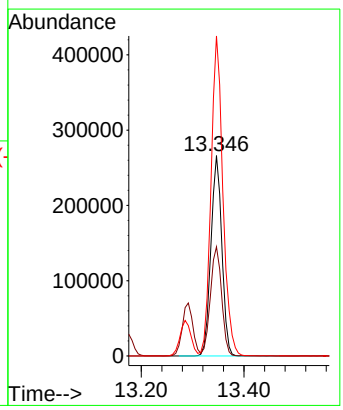
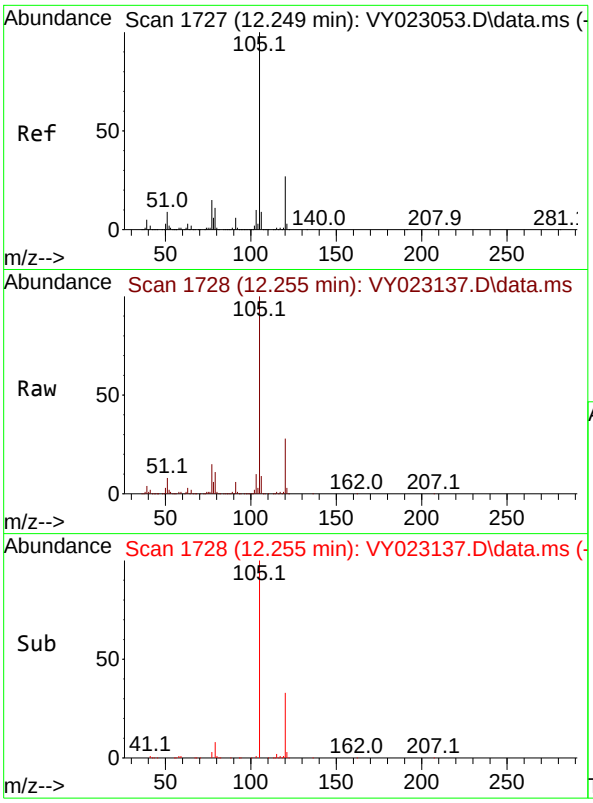



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:152 Resp: 392533

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 55.8 | 28.2 | 84.6 |
| 150 | 173.7 | 0.0 | 348.0 |

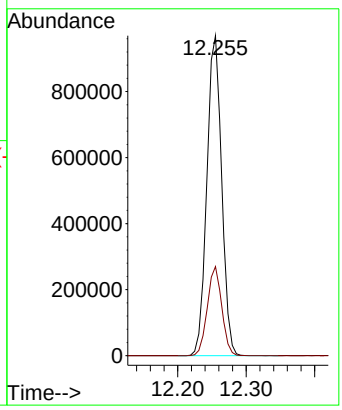





#73
Isopropylbenzene
Concen: 52.528 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:105 Resp: 145526

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.2 | 13.4 | 40.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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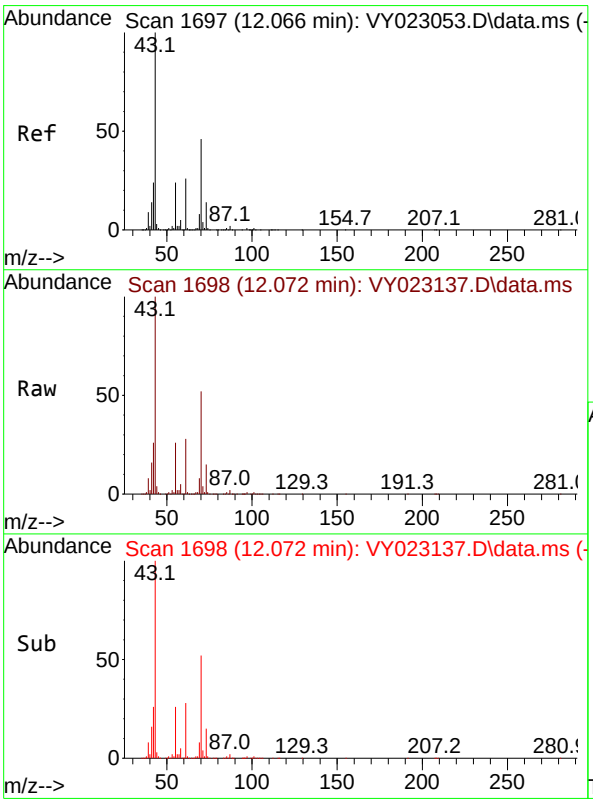
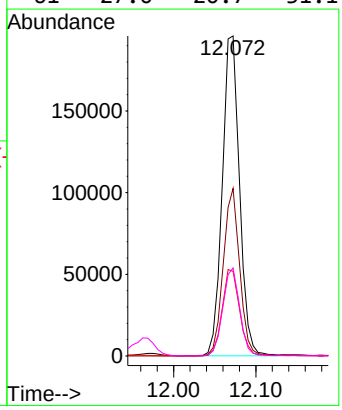
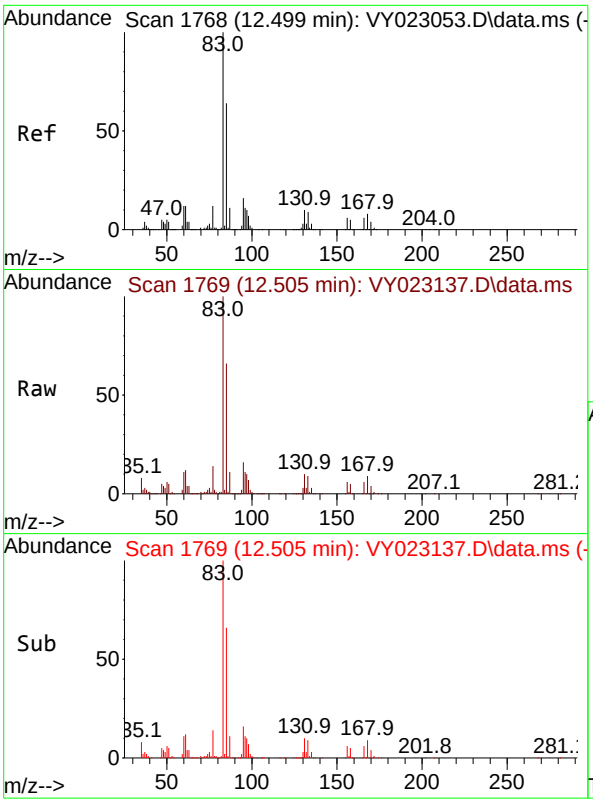



#74
N-amyl acetate
Concen: 48.584 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 43 Resp: 285441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 49.8 | 37.5 | 56.3 |
| 55 | 27.3 | 20.7 | 31.1 |
| 61 | 27.0 | 20.7 | 31.1 |

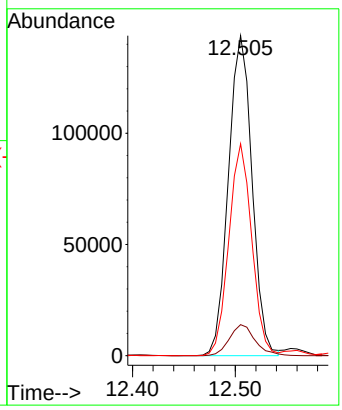





#75
1,1,2,2-Tetrachloroethane
Concen: 48.639 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 83 Resp: 23008

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.6 | 5.1 | 15.3 |
| 85 | 64.3 | 31.8 | 95.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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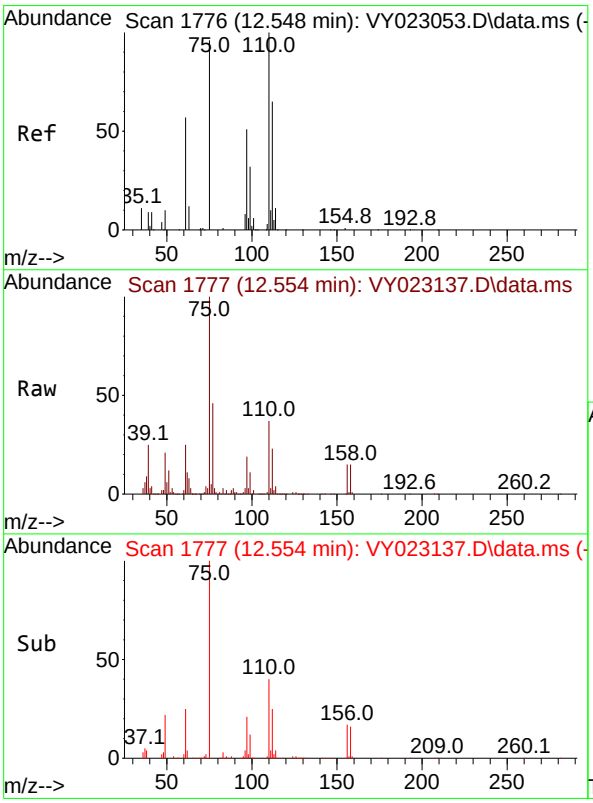
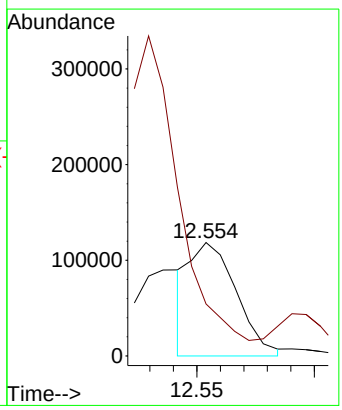
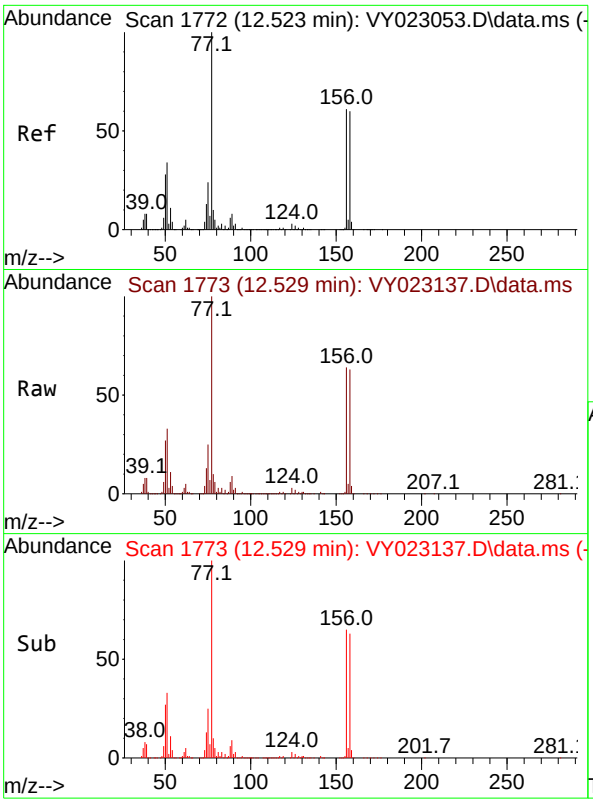



#76
1,2,3-Trichloropropane
Concen: 43.632 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 75 Resp: 165292

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |






#77
Bromobenzene
Concen: 50.968 ug/l
RT: 12.529 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:156 Resp: 33687

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 170.5 | 88.1 | 264.4 |
| 158 | 97.2 | 48.0 | 144.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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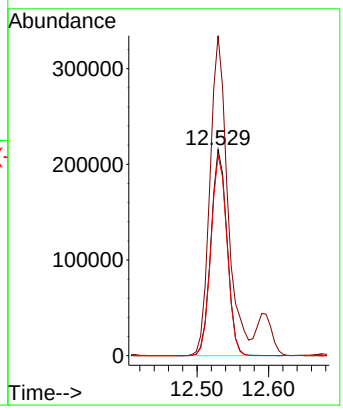
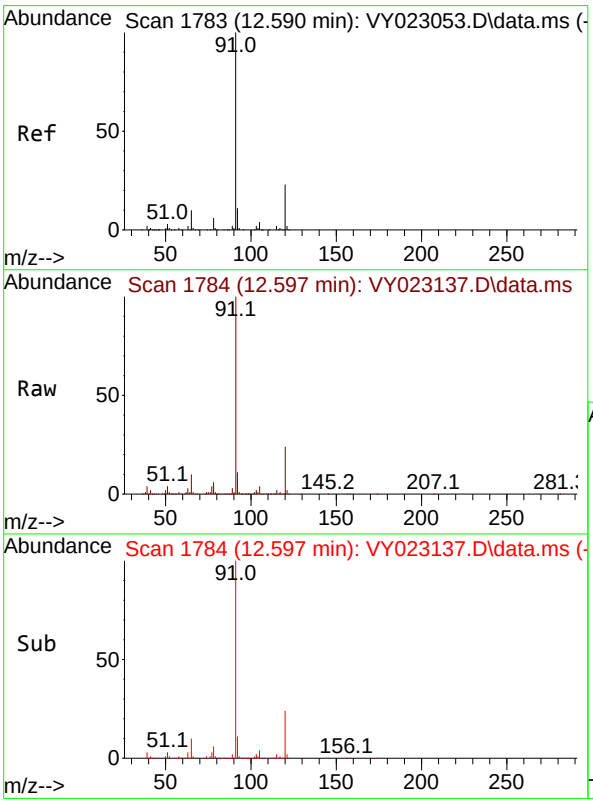
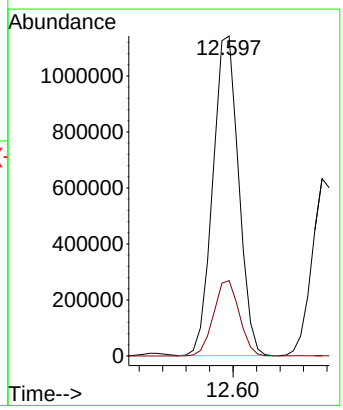


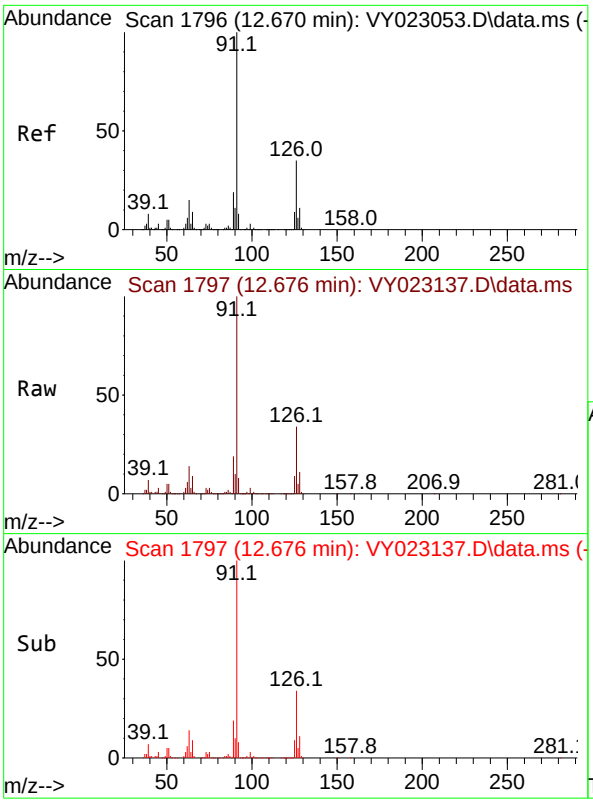




#78
n-propylbenzene
Concen: 52.806 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 91 Resp: 1741756

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 23.5 | 11.5 | 34.5 |

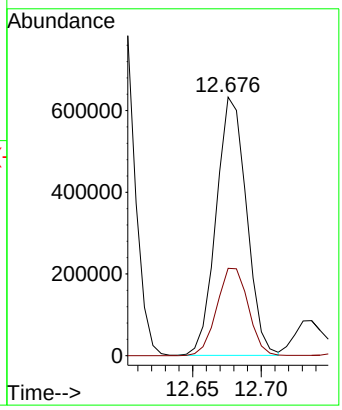





#79
2-Chlorotoluene
Concen: 51.594 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 91 Resp: 97505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.0 | 17.4 | 52.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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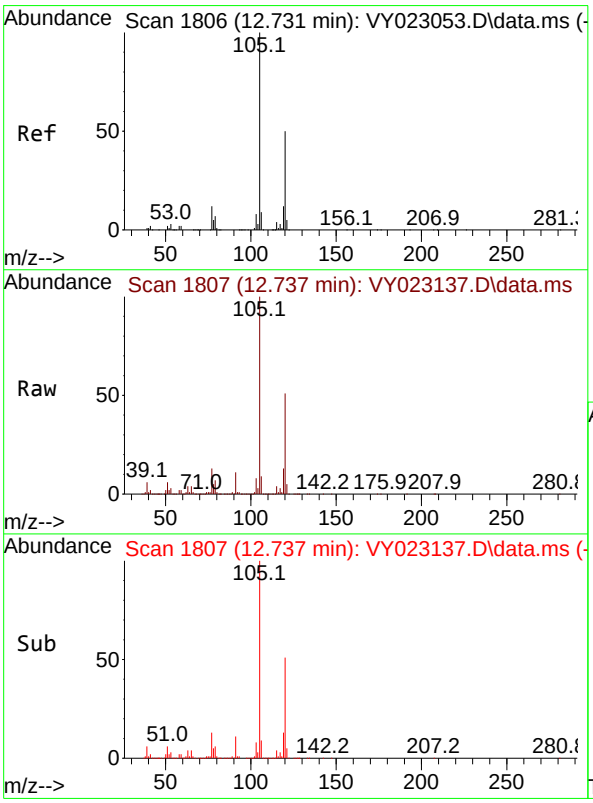
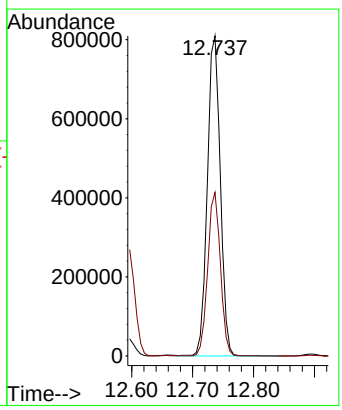
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

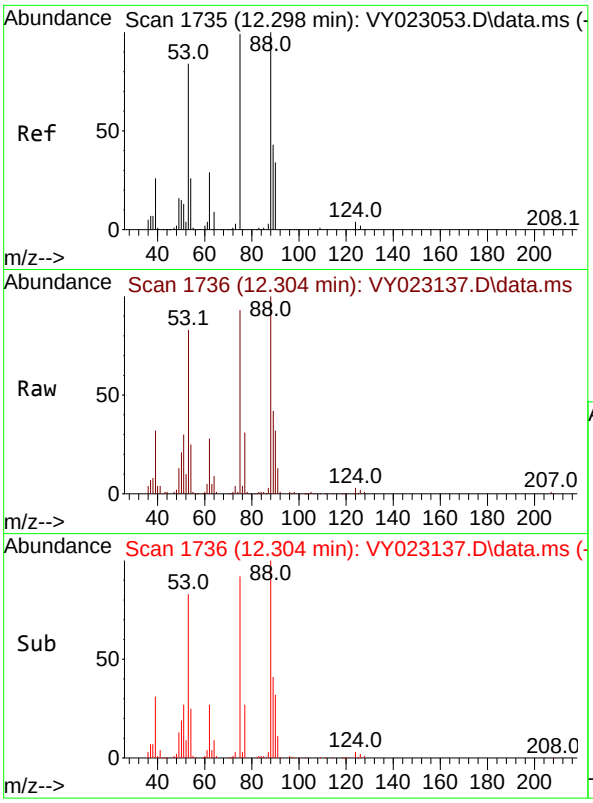



#80
1,3,5-Trimethylbenzene
Concen: 53.229 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:105 Resp: 1191826

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 50.1 | 24.8 | 74.4 |






#81
trans-1,4-Dichloro-2-butene
Concen: 49.570 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 75 Resp: 7757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 89.8 | 70.8 | 106.2 |
| 89 | 45.4 | 38.1 | 57.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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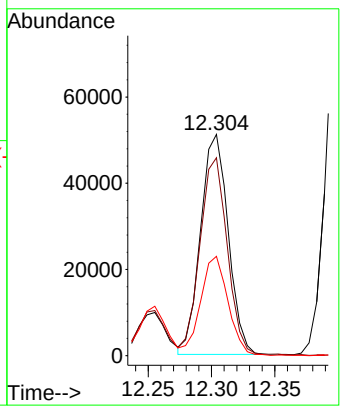
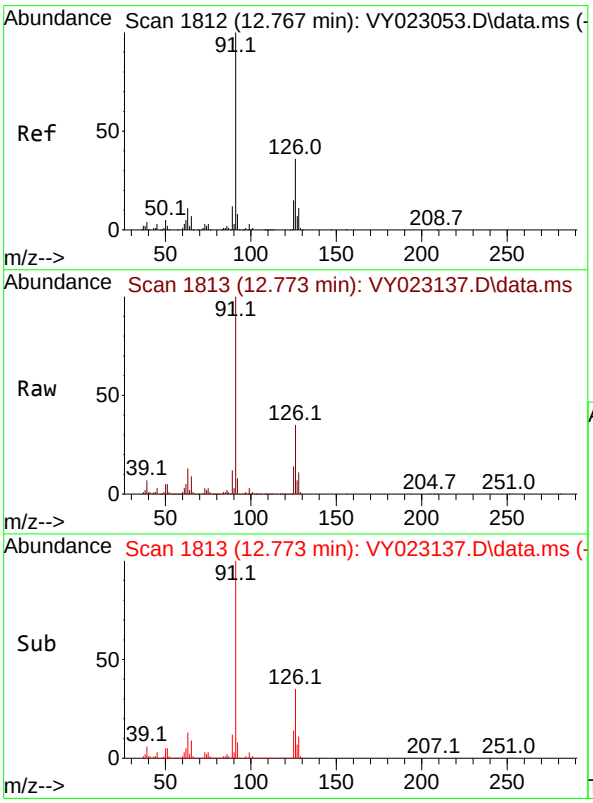
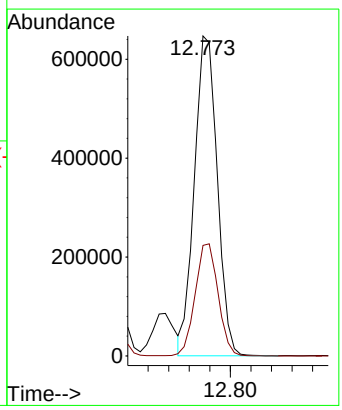


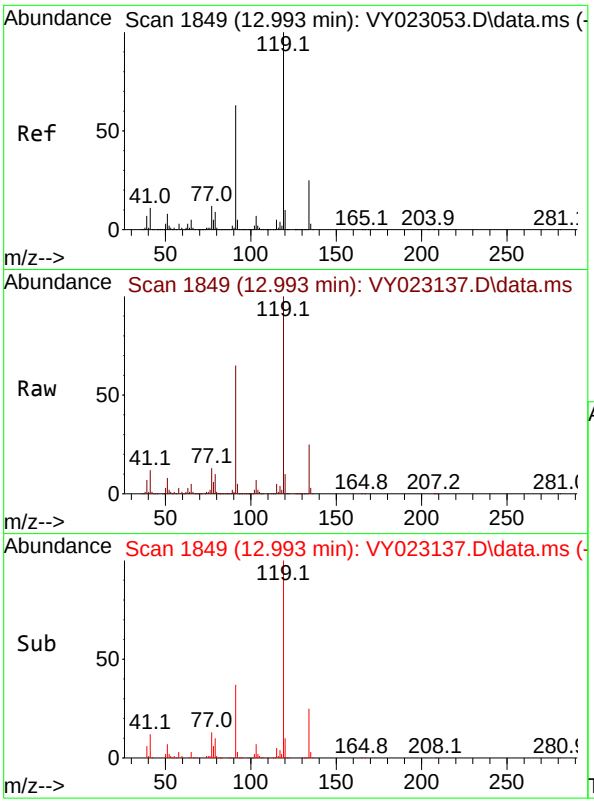




#82
4-Chlorotoluene
Concen: 51.036 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 91 Resp: 1000547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.2 | 17.3 | 52.0 |






#83
tert-Butylbenzene
Concen: 53.956 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:119 Resp: 109112

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 61.6 | 31.6 | 94.8 |
| 134 | 25.9 | 12.9 | 38.7 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

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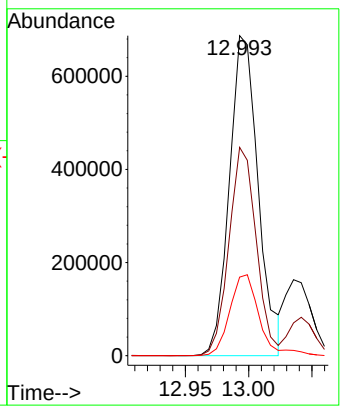
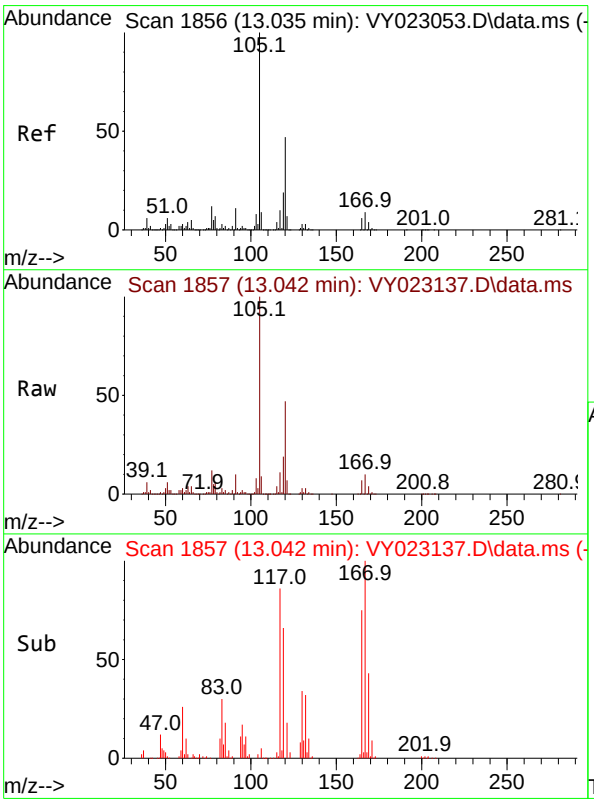
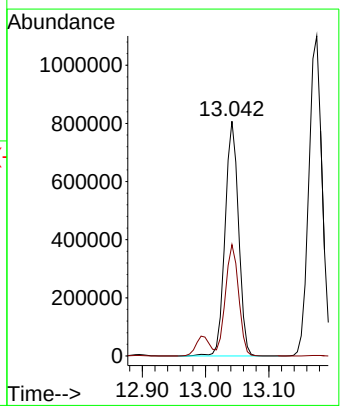


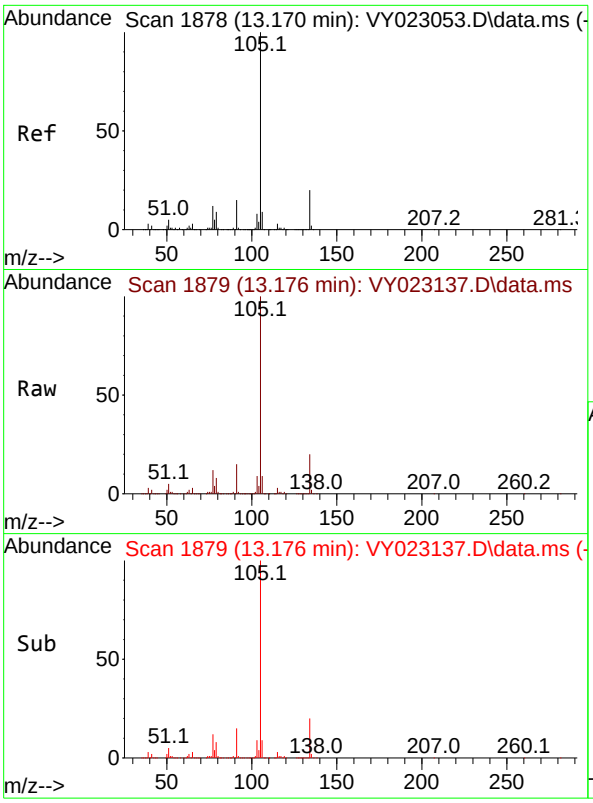




#84
1,2,4-Trimethylbenzene
Concen: 53.459 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:105 Resp: 1191535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.2 | 23.0 | 69.0 |






#85
sec-Butylbenzene
Concen: 53.673 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:105 Resp: 159442

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.4 | 10.2 | 30.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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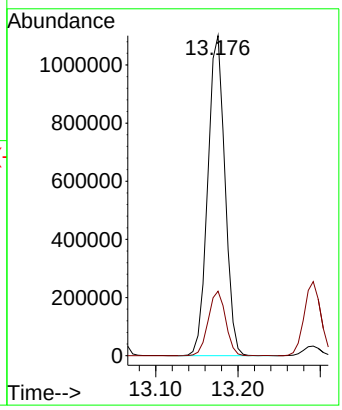
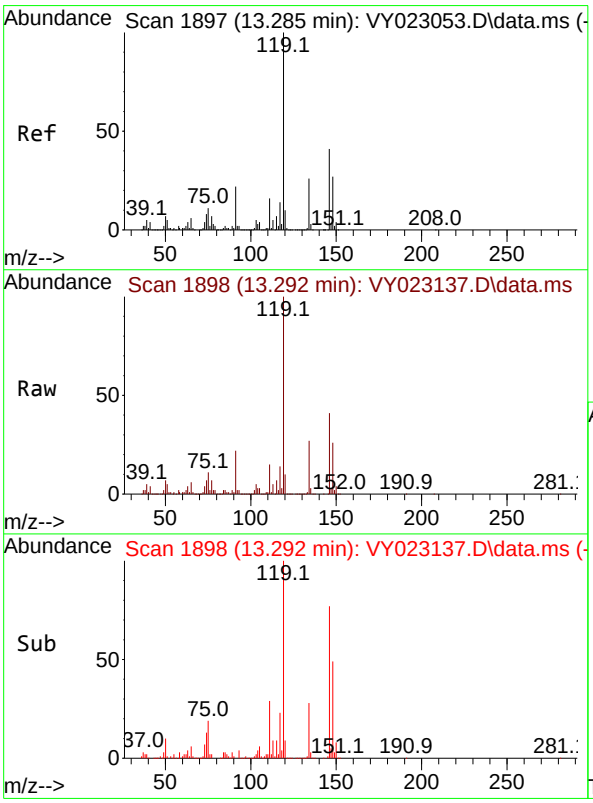
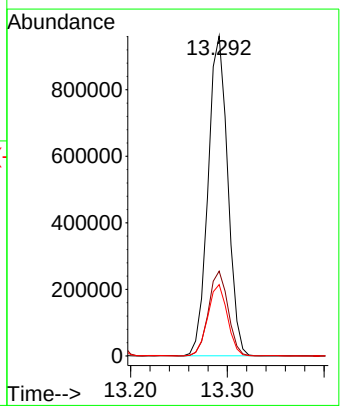


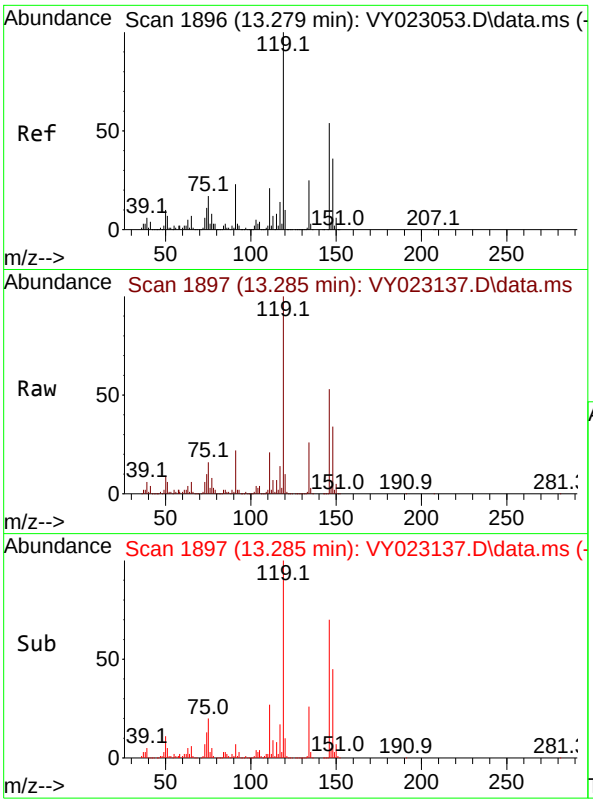




#86
p-Isopropyltoluene
Concen: 55.063 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:119 Resp: 1357746

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.4 | 13.2 | 39.6 |
| 91 | 22.2 | 11.3 | 33.8 |

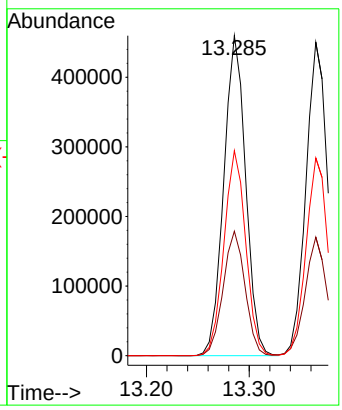





#87
1,3-Dichlorobenzene
Concen: 52.231 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:146 Resp: 68078

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.9 | 19.6 | 58.7 |
| 148 | 63.7 | 32.5 | 97.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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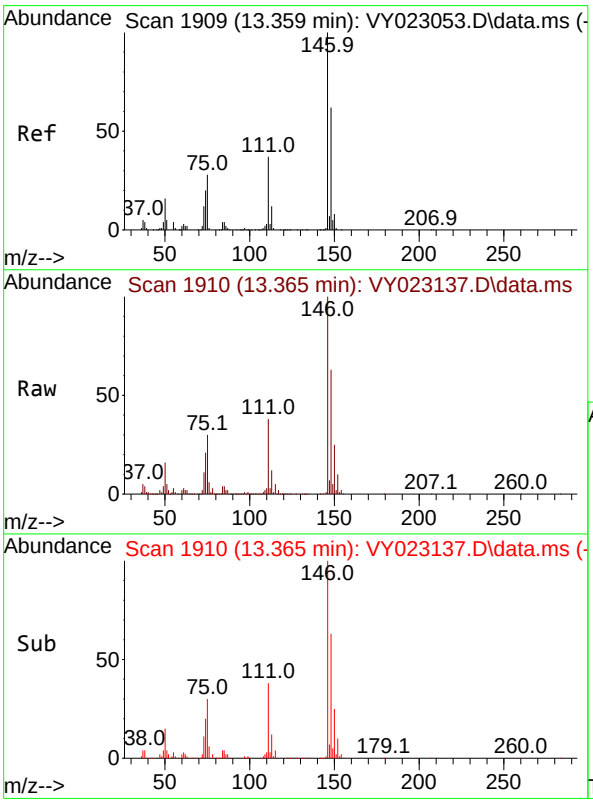
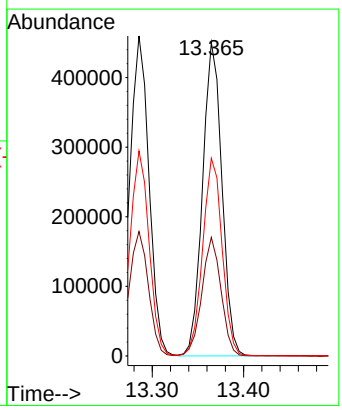
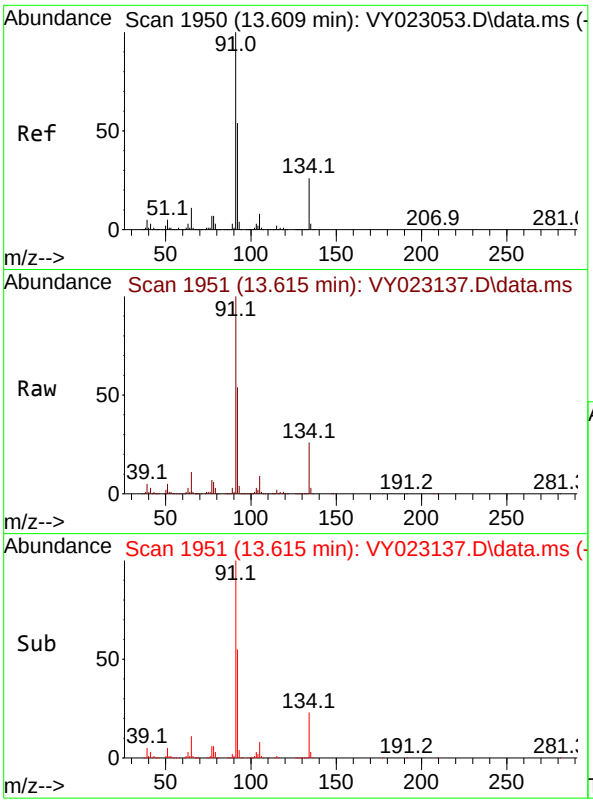



#88
1,4-Dichlorobenzene
Concen: 51.281 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:146 Resp: 663039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 37.4 | 19.1 | 57.1 |
| 148 | 63.4 | 31.6 | 94.7 |

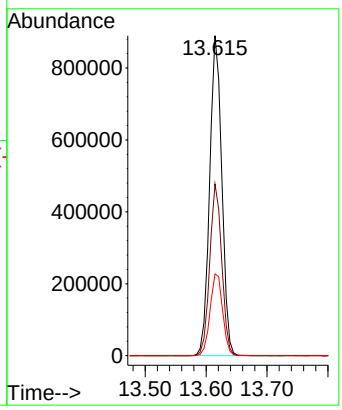





#89
n-Butylbenzene
Concen: 54.384 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 91 Resp: 123164

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.0 | 26.9 | 80.7 |
| 134 | 26.4 | 13.2 | 39.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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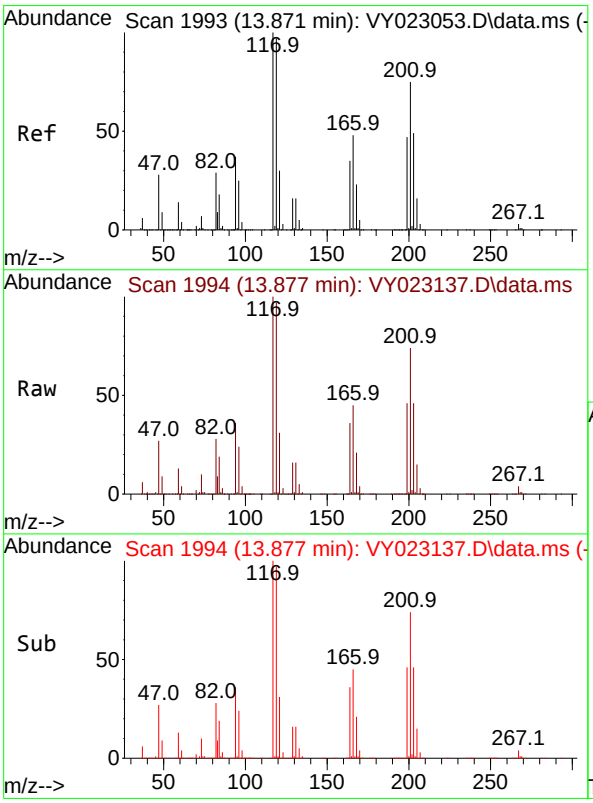
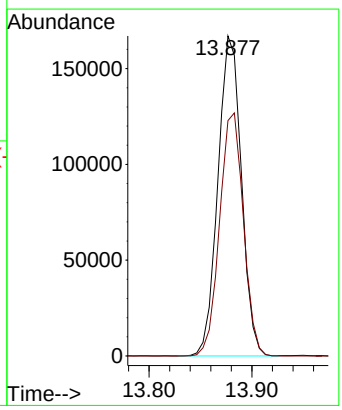
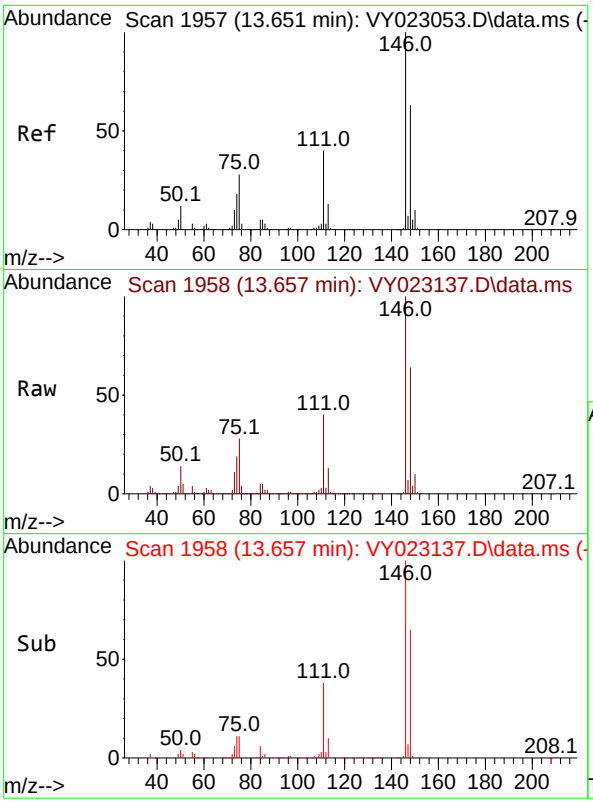



#90
Hexachloroethane
Concen: 52.354 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:117 Resp: 264268

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 77.1 | 38.4 | 115.1 |

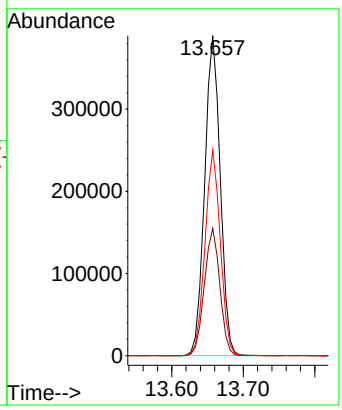





#91
1,2-Dichlorobenzene
Concen: 51.489 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:146 Resp: 58857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.7 | 20.3 | 60.8 |
| 148 | 63.3 | 32.2 | 96.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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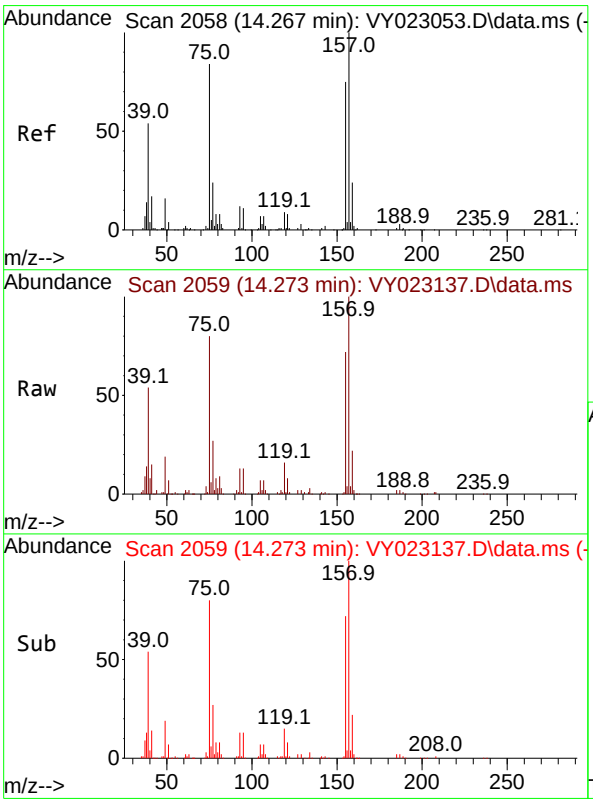
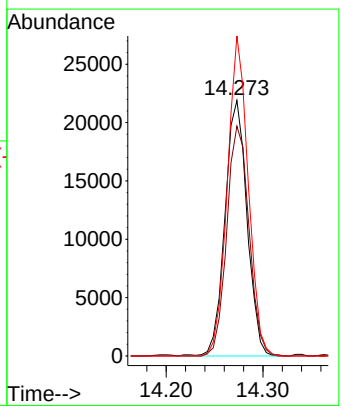
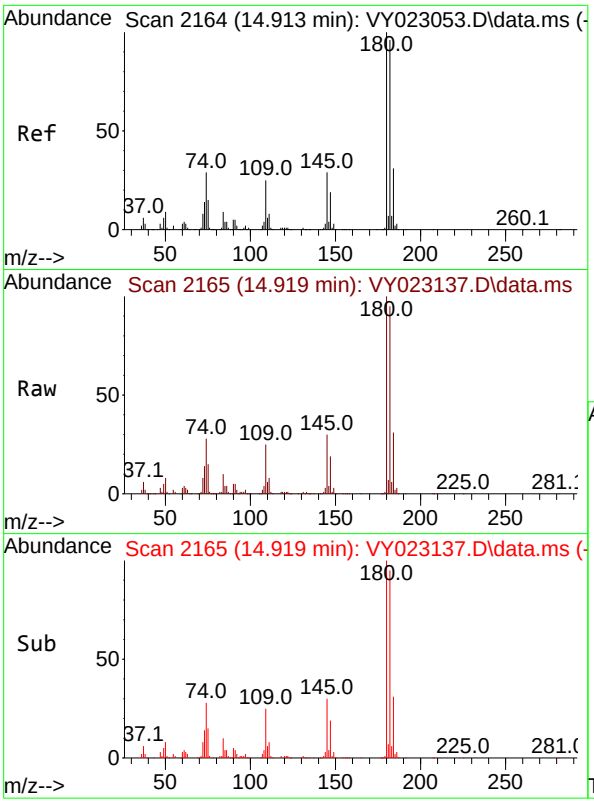



#92
1,2-Dibromo-3-Chloropropane
Concen: 47.081 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 75 Resp: 34676

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 90.7 | 43.9 | 131.6 |
| 157 | 118.4 | 57.2 | 171.6 |

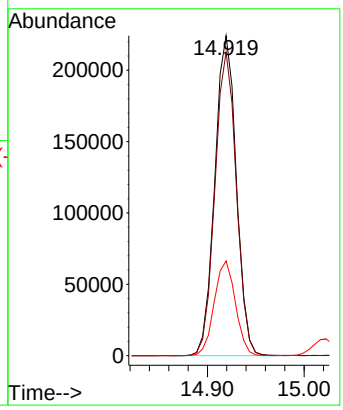





#93
1,2,4-Trichlorobenzene
Concen: 51.158 ug/l
RT: 14.919 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:180 Resp: 34581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.4 | 46.8 | 140.4 |
| 145 | 29.3 | 14.4 | 43.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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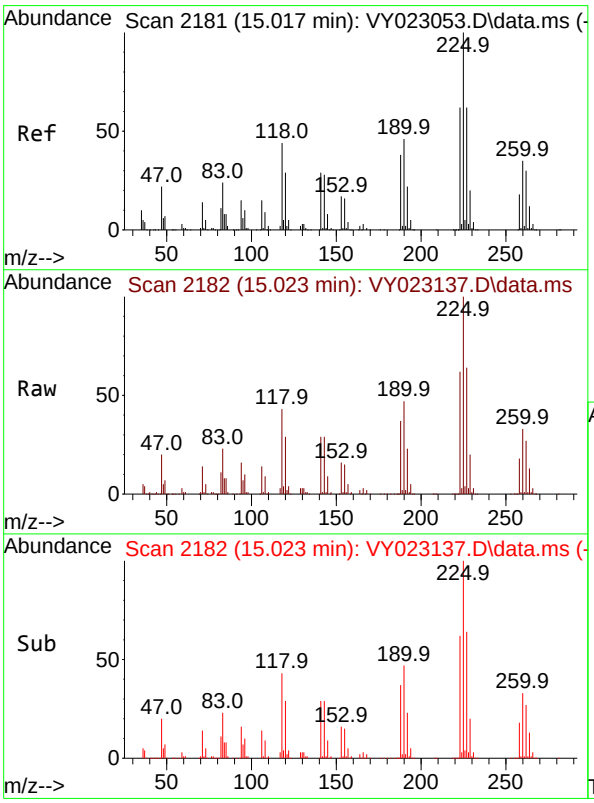
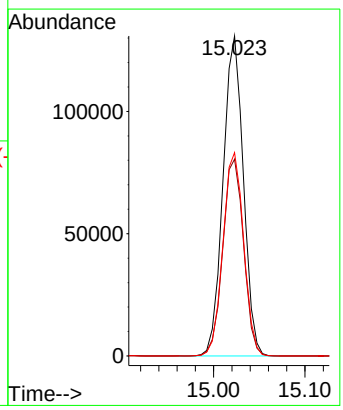
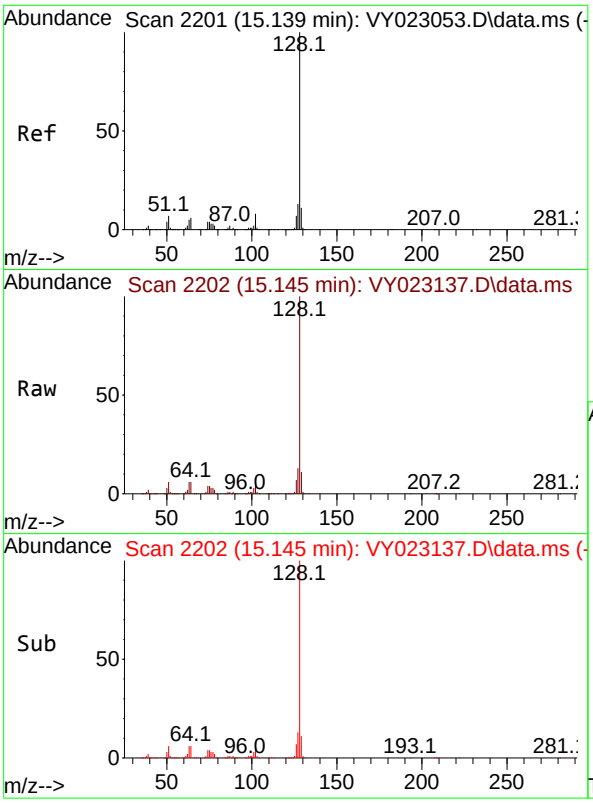



#94
Hexachlorobutadiene
Concen: 50.885 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:225 Resp: 202124

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.8 | 31.3 | 93.8 |
| 227 | 64.8 | 31.5 | 94.5 |

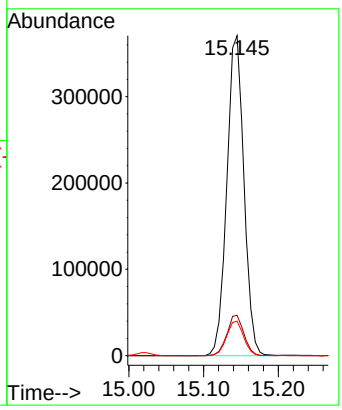





#95
Naphthalene
Concen: 51.208 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:128 Resp: 59025

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.6 | 10.4 | 15.6 |
| 129 | 10.9 | 9.0 | 13.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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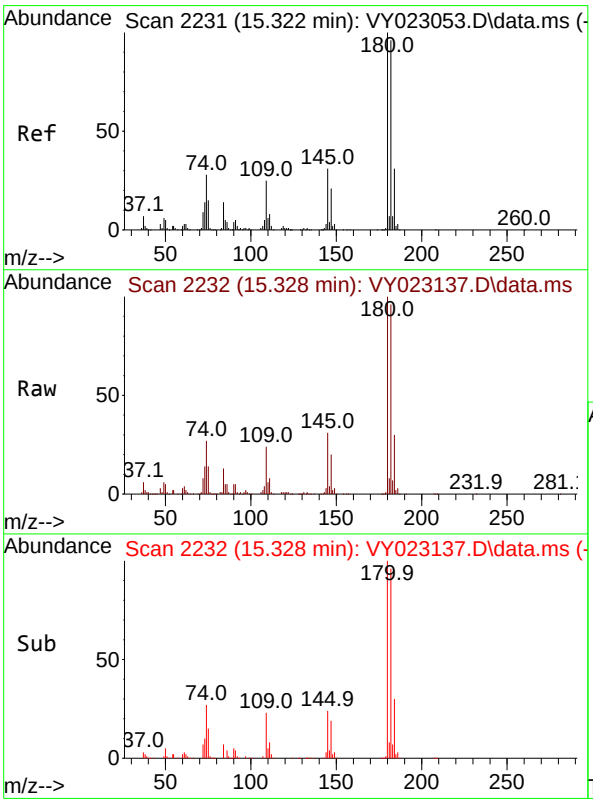
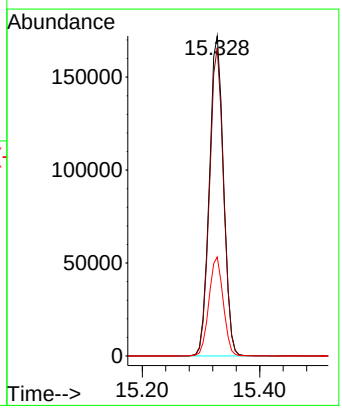



#96
1,2,3-Trichlorobenzene
Concen: 49.517 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:180 Resp: 288433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.5 | 47.9 | 143.7 |
| 145 | 31.1 | 15.9 | 47.7 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023137.D
Acq On : 19 Aug 2025 09:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Aug 20 01:22:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 104 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.408 | 0.339 | 16.9 | 101 | 0.00 |
| 3 | P | Chloromethane | 0.661 | 0.565 | 14.5 | 97 | 0.00 |
| 4 | C | Vinyl Chloride | 0.817 | 0.743 | 9.1# | 100 | 0.01 |
| 5 | T | Bromomethane | 0.610 | 0.580 | 4.9 | 111 | 0.00 |
| 6 | T | Chloroethane | 0.543 | 0.507 | 6.6 | 102 | 0.01 |
| 7 | T | Trichlorofluoromethane | 0.994 | 0.908 | 8.7 | 101 | 0.00 |
| 8 | T | Diethyl Ether | 0.263 | 0.242 | 8.0 | 100 | 0.01 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.490 | 0.476 | 2.9 | 107 | 0.01 |
| 10 | T | Methyl Iodide | 0.529 | 0.581 | -9.8 | 110 | 0.01 |
| 11 | T | Tert butyl alcohol | 0.033 | 0.028 | 15.2 | 93 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.482 | 0.477 | 1.0# | 107 | 0.01 |
| 13 | T | Acrolein | 0.048 | 0.022 | 54.2# | 50 | 0.00 |
| 14 | T | Allyl chloride | 0.709 | 0.646 | 8.9 | 98 | 0.00 |
| 15 | T | Acrylonitrile | 0.107 | 0.100 | 6.5 | 98 | 0.01 |
| 16 | T | Acetone | 0.103 | 0.113 | -9.7 | 114 | 0.00 |
| 17 | T | Carbon Disulfide | 1.571 | 1.449 | 7.8 | 101 | 0.01 |
| 18 | T | Methyl Acetate | 0.307 | 0.263 | 14.3 | 85 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.249 | 1.212 | 3.0 | 102 | 0.01 |
| 20 | T | Methylene Chloride | 0.620 | 0.513 | 17.3 | 105 | 0.01 |
| 21 | T | trans-1,2-Dichloroethene | 0.541 | 0.535 | 1.1 | 106 | 0.01 |
| 22 | T | Diisopropyl ether | 1.541 | 1.473 | 4.4 | 101 | 0.00 |
| 23 | T | Vinyl Acetate | 0.852 | 0.820 | 3.8 | 101 | 0.01 |
| 24 | P | 1,1-Dichloroethane | 0.942 | 0.908 | 3.6 | 103 | 0.01 |
| 25 | T | 2-Butanone | 0.140 | 0.137 | 2.1 | 100 | 0.01 |
| 26 | T | 2,2-Dichloropropane | 0.813 | 0.836 | -2.8 | 110 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.626 | 0.626 | 0.0 | 107 | 0.00 |
| 28 | T | Bromochloromethane | 0.374 | 0.333 | 11.0 | 95 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.087 | 0.079 | 9.2 | 94 | 0.00 |
| 30 | C | Chloroform | 0.971 | 0.958 | 1.3# | 105 | 0.00 |
| 31 | T | Cyclohexane | 0.888 | 0.821 | 7.5 | 105 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.862 | 0.864 | -0.2 | 107 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.477 | 0.431 | 9.6 | 97 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 102 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.299 | 0.292 | 2.3 | 102 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.445 | 0.452 | -1.6 | 107 | 0.00 |
| 37 | T | Ethyl Acetate | 0.187 | 0.179 | 4.3 | 98 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.483 | 0.498 | -3.1 | 109 | 0.00 |
| 39 | T | Methylcyclohexane | 0.586 | 0.607 | -3.6 | 110 | 0.00 |
| 40 | TM | Benzene | 1.370 | 1.381 | -0.8 | 106 | 0.00 |
| 41 | T | Methacrylonitrile | 0.108 | 0.101 | 6.5 | 94 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.356 | 0.342 | 3.9 | 101 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.378 | 0.353 | 6.6 | 97 | 0.00 |
| 44 | TM | Trichloroethene | 0.354 | 0.365 | -3.1 | 109 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.315 | 0.316 | -0.3# | 105 | 0.00 |
| 46 | T | Dibromomethane | 0.181 | 0.180 | 0.6 | 103 | 0.00 |
| 47 | T | Bromodichloromethane | 0.466 | 0.464 | 0.4 | 103 | 0.00 |
| 48 | T | Methyl methacrylate | 0.181 | 0.174 | 3.9 | 95 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023137.D
Acq On : 19 Aug 2025 09:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Aug 20 01:22:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 0.002 | 0.002 | 0.0 | 96 | 0.00 |
| 50 | S | Toluene-d8 | 1.169 | 1.150 | 1.6 | 103 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.195 | 0.188 | 3.6 | 96 | 0.00 |
| 52 | CM | Toluene | 0.870 | 0.899 | -3.3# | 107 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.422 | 0.431 | -2.1 | 105 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.499 | 0.504 | -1.0 | 104 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.242 | 0.243 | -0.4 | 104 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.310 | 0.315 | -1.6 | 101 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.411 | 0.405 | 1.5 | 102 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.146 | 0.142 | 2.7 | 94 | 0.00 |
| 59 | T | 2-Hexanone | 0.133 | 0.135 | -1.5 | 101 | 0.00 |
| 60 | T | Dibromochloromethane | 0.320 | 0.326 | -1.9 | 105 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.228 | 0.229 | -0.4 | 104 | 0.01 |
| 62 | S | 4-Bromofluorobenzene | 0.376 | 0.373 | 0.8 | 103 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 101 | 0.00 |
| 64 | T | Tetrachloroethene | 0.446 | 0.450 | -0.9 | 105 | 0.00 |
| 65 | PM | Chlorobenzene | 1.079 | 1.127 | -4.4 | 108 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.366 | 0.387 | -5.7 | 109 | 0.00 |
| 67 | C | Ethyl Benzene | 1.856 | 1.962 | -5.7# | 107 | 0.00 |
| 68 | T | m/p-Xylenes | 0.725 | 0.779 | -7.4 | 110 | 0.00 |
| 69 | T | o-Xylene | 0.679 | 0.732 | -7.8 | 108 | 0.00 |
| 70 | T | Styrene | 1.110 | 1.221 | -10.0 | 110 | 0.00 |
| 71 | P | Bromoform | 0.214 | 0.218 | -1.9 | 103 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 104 | 0.00 |
| 73 | T | Isopropylbenzene | 3.529 | 3.707 | -5.0 | 110 | 0.00 |
| 74 | T | N-amyl acetate | 0.748 | 0.727 | 2.8 | 98 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.603 | 0.586 | 2.8 | 104 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.483 | 0.421 | 12.8 | 82 | 0.00 |
| 77 | T | Bromobenzene | 0.842 | 0.858 | -1.9 | 108 | 0.00 |
| 78 | T | n-propylbenzene | 4.201 | 4.437 | -5.6 | 109 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.407 | 2.484 | -3.2 | 108 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.852 | 3.036 | -6.5 | 110 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.199 | 0.198 | 0.5 | 104 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.497 | 2.549 | -2.1 | 108 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.576 | 2.780 | -7.9 | 112 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.839 | 3.036 | -6.9 | 111 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.784 | 4.062 | -7.3 | 112 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.141 | 3.459 | -10.1 | 113 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.660 | 1.734 | -4.5 | 112 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.647 | 1.689 | -2.6 | 110 | 0.00 |
| 89 | T | n-Butylbenzene | 2.885 | 3.138 | -8.8 | 112 | 0.00 |
| 90 | T | Hexachloroethane | 0.643 | 0.673 | -4.7 | 111 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.456 | 1.499 | -3.0 | 110 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.094 | 0.088 | 6.4 | 97 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.861 | 0.881 | -2.3 | 108 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.506 | 0.515 | -1.8 | 109 | 0.00 |
| 95 | T | Naphthalene | 1.468 | 1.504 | -2.5 | 105 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023137.D
Acq On : 19 Aug 2025 09:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Aug 20 01:22:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 0.742 | 0.735 | 0.9 | 106 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023137.D
Acq On : 19 Aug 2025 09:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Aug 20 01:22:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 104 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 41.557 | 16.9 | 101 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 42.705 | 14.6 | 97 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 45.491 | 9.0# | 100 | 0.01 |
| 5 | T | Bromomethane | 50.000 | 47.481 | 5.0 | 111 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 46.683 | 6.6 | 102 | 0.01 |
| 7 | T | Trichlorofluoromethane | 50.000 | 45.708 | 8.6 | 101 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 46.102 | 7.8 | 100 | 0.01 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 48.569 | 2.9 | 107 | 0.01 |
| 10 | T | Methyl Iodide | 50.000 | 54.916 | -9.8 | 110 | 0.01 |
| 11 | T | Tert butyl alcohol | 250.000 | 218.191 | 12.7 | 93 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 49.491 | 1.0# | 107 | 0.01 |
| 13 | T | Acrolein | 250.000 | 113.207 | 54.7# | 50 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 45.563 | 8.9 | 98 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 233.725 | 6.5 | 98 | 0.01 |
| 16 | T | Acetone | 250.000 | 273.812 | -9.5 | 114 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 46.117 | 7.8 | 101 | 0.01 |
| 18 | T | Methyl Acetate | 50.000 | 42.821 | 14.4 | 85 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 48.545 | 2.9 | 102 | 0.01 |
| 20 | T | Methylene Chloride | 50.000 | 47.727 | 4.5 | 105 | 0.01 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 49.404 | 1.2 | 106 | 0.01 |
| 22 | T | Diisopropyl ether | 50.000 | 47.793 | 4.4 | 101 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 240.761 | 3.7 | 101 | 0.01 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 48.199 | 3.6 | 103 | 0.01 |
| 25 | T | 2-Butanone | 250.000 | 244.351 | 2.3 | 100 | 0.01 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 51.414 | -2.8 | 110 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 50.042 | -0.1 | 107 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 44.509 | 11.0 | 95 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 226.737 | 9.3 | 94 | 0.00 |
| 30 | C | Chloroform | 50.000 | 49.287 | 1.4# | 105 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 46.269 | 7.5 | 105 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 50.106 | -0.2 | 107 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 45.256 | 9.5 | 97 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 102 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 48.854 | 2.3 | 102 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 50.818 | -1.6 | 107 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 48.006 | 4.0 | 98 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 51.581 | -3.2 | 109 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 51.832 | -3.7 | 110 | 0.00 |
| 40 | TM | Benzene | 50.000 | 50.401 | -0.8 | 106 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 46.765 | 6.5 | 94 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 48.044 | 3.9 | 101 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 46.703 | 6.6 | 97 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 51.463 | -2.9 | 109 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 50.044 | -0.1# | 105 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 49.637 | 0.7 | 103 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 49.781 | 0.4 | 103 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 48.023 | 4.0 | 95 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023137.D
Acq On : 19 Aug 2025 09:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Aug 20 01:22:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 1000.000 | 934.713 | 6.5 | 96 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 49.217 | 1.6 | 103 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 240.906 | 3.6 | 96 | 0.00 |
| 52 | CM | Toluene | 50.000 | 51.669 | -3.3# | 107 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 51.112 | -2.2 | 105 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 50.516 | -1.0 | 104 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 50.206 | -0.4 | 104 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 50.859 | -1.7 | 101 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 49.273 | 1.5 | 102 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 242.835 | 2.9 | 94 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 254.865 | -1.9 | 101 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 50.963 | -1.9 | 105 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 50.411 | -0.8 | 104 | 0.01 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 49.618 | 0.8 | 103 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 101 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 50.340 | -0.7 | 105 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 52.238 | -4.5 | 108 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 52.900 | -5.8 | 109 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 52.850 | -5.7# | 107 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 107.397 | -7.4 | 110 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 53.940 | -7.9 | 108 | 0.00 |
| 70 | T | Styrene | 50.000 | 55.007 | -10.0 | 110 | 0.00 |
| 71 | P | Bromoform | 50.000 | 51.022 | -2.0 | 103 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 104 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 52.528 | -5.1 | 110 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 48.584 | 2.8 | 98 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 48.639 | 2.7 | 104 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 43.632 | 12.7 | 82 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 50.968 | -1.9 | 108 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 52.806 | -5.6 | 109 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 51.594 | -3.2 | 108 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 53.229 | -6.5 | 110 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 49.570 | 0.9 | 104 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 51.036 | -2.1 | 108 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 53.956 | -7.9 | 112 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 53.459 | -6.9 | 111 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 53.673 | -7.3 | 112 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 55.063 | -10.1 | 113 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 52.231 | -4.5 | 112 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 51.281 | -2.6 | 110 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 54.384 | -8.8 | 112 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 52.354 | -4.7 | 111 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 51.489 | -3.0 | 110 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 47.081 | 5.8 | 97 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 51.158 | -2.3 | 108 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 50.885 | -1.8 | 109 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 51.208 | -2.4 | 105 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023137.D
Acq On : 19 Aug 2025 09:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Aug 20 01:22:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 49.517 | 1.0 | 106 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance | Contract: FIRS02

Lab Code: ACE | SDG No.: Q2819

Instrument ID: MSVOA_Y | Calibration Date/Time: 08/19/2025 19:08

Lab File ID: VY023160.D | Init. Calib. Date(s): 08/12/2025 08/12/2025

Heated Purge: (Y/N) Y | Init. Calib. Time(s): 14:54 16:47

GC Column: RXI-624 ID: 0.25 (mm)

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.408 | 0.320 | | -21.57 | 50 |
| Chloromethane | 0.661 | 0.610 | 0.1 | -7.72 | 50 |
| Vinyl Chloride | 0.817 | 0.782 | | -4.28 | 50 |
| Bromomethane | 0.610 | 0.614 | | 0.66 | 50 |
| Chloroethane | 0.543 | 0.553 | | 1.84 | 50 |
| Trichlorofluoromethane | 0.994 | 0.893 | | -10.16 | 50 |
| 1,1,2-Trichlorotrifluoroethane | 0.490 | 0.442 | | -9.8 | 50 |
| 1,1-Dichloroethene | 0.482 | 0.454 | | -5.81 | 50 |
| Acetone | 0.103 | 0.077 | | -25.24 | 50 |
| Carbon Disulfide | 1.571 | 1.447 | | -7.89 | 50 |
| Methyl tert-butyl Ether | 1.249 | 1.186 | | -5.04 | 50 |
| Methyl Acetate | 0.307 | 0.309 | | 0.65 | 50 |
| Methylene Chloride | 0.620 | 0.539 | | -13.06 | 50 |
| trans-1,2-Dichloroethene | 0.541 | 0.543 | | 0.37 | 50 |
| 1,1-Dichloroethane | 0.942 | 0.933 | 0.1 | -0.95 | 50 |
| Cyclohexane | 0.888 | 0.746 | | -15.99 | 50 |
| 2-Butanone | 0.140 | 0.118 | | -15.71 | 50 |
| Carbon Tetrachloride | 0.483 | 0.470 | | -2.69 | 50 |
| cis-1,2-Dichloroethene | 0.626 | 0.631 | | 0.8 | 50 |
| Bromochloromethane | 0.374 | 0.372 | | -0.54 | 50 |
| Chloroform | 0.971 | 0.985 | | 1.44 | 50 |
| 1,1,1-Trichloroethane | 0.862 | 0.852 | | -1.16 | 50 |
| Methylcyclohexane | 0.586 | 0.534 | | -8.87 | 50 |
| Benzene | 1.370 | 1.375 | | 0.37 | 50 |
| 1,2-Dichloroethane | 0.356 | 0.348 | | -2.25 | 50 |
| Trichloroethene | 0.354 | 0.367 | | 3.67 | 50 |
| 1,2-Dichloropropane | 0.315 | 0.314 | | -0.32 | 50 |
| Bromodichloromethane | 0.466 | 0.472 | | 1.29 | 50 |
| 4-Methyl-2-Pentanone | 0.195 | 0.181 | | -7.18 | 50 |
| Toluene | 0.870 | 0.891 | | 2.41 | 50 |
| t-1,3-Dichloropropene | 0.422 | 0.407 | | -3.56 | 50 |
| cis-1,3-Dichloropropene | 0.499 | 0.486 | | -2.61 | 50 |
| 1,1,2-Trichloroethane | 0.242 | 0.243 | | 0.41 | 50 |
| 2-Hexanone | 0.133 | 0.120 | | -9.77 | 50 |
| Dibromochloromethane | 0.320 | 0.328 | | 2.5 | 50 |
| 1,2-Dibromoethane | 0.228 | 0.226 | | -0.88 | 50 |
| Tetrachloroethene | 0.446 | 0.501 | | 12.33 | 50 |
| Chlorobenzene | 1.079 | 1.088 | 0.3 | 0.83 | 50 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

## VOLATILE CONTINUING CALIBRATION CHECK

| | | | |
|---|---|---|---|
| Lab Name: | Alliance | Contract: | FIRS02 |
| Lab Code: | ACE | SDG No.: | Q2819 |
| Instrument ID: | MSVOA_Y | Calibration Date/Time: | 08/19/2025 19:08 |
| Lab File ID: | VY023160.D | Init. Calib. Date(s): | 08/12/2025 08/12/2025 |
| Heated Purge: (Y/N) | Y | Init. Calib. Time(s): | 14:54 16:47 |

GC Column: RXI-624 ID: 0.25 (mm)

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Ethyl Benzene | 1.856 | 1.889 | | 1.78 | 50 |
| m/p-Xylenes | 0.725 | 0.747 | | 3.03 | 50 |
| o-Xylene | 0.679 | 0.703 | | 3.54 | 50 |
| Styrene | 1.110 | 1.180 | | 6.31 | 50 |
| Bromoform | 0.214 | 0.210 | 0.1 | -1.87 | 50 |
| Isopropylbenzene | 3.529 | 3.482 | | -1.33 | 50 |
| 1,1,2,2-Tetrachloroethane | 0.603 | 0.519 | 0.3 | -13.93 | 50 |
| 1,3-Dichlorobenzene | 1.660 | 1.648 | | -0.72 | 50 |
| 1,4-Dichlorobenzene | 1.647 | 1.601 | | -2.79 | 50 |
| 1,2-Dichlorobenzene | 1.456 | 1.432 | | -1.65 | 50 |
| 1,2-Dibromo-3-Chloropropane | 0.094 | 0.084 | | -10.64 | 50 |
| 1,2,4-Trichlorobenzene | 0.861 | 0.784 | | -8.94 | 50 |
| 1,2,3-Trichlorobenzene | 0.742 | 0.672 | | -9.43 | 50 |
| 1,2-Dichloroethane-d4 | 0.477 | 0.470 | | -1.47 | 50 |
| Dibromofluoromethane | 0.299 | 0.299 | | 0 | 50 |
| Toluene-d8 | 1.169 | 1.189 | | 1.71 | 50 |
| 4-Bromofluorobenzene | 0.376 | 0.378 | | 0.53 | 50 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023160.D
Acq On : 19 Aug 2025 19:08
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Aug 20 01:34:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 453917 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 726912 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 647238 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 333557 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 213375 | 49.322 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 98.640% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 217058 | 49.903 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 99.800% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 864097 | 50.853 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 101.700% | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 274917 | 50.308 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 100.620% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 145094 | 39.160 | ug/l | 98 |
| 3) Chloromethane | 2.068 | 50 | 276875 | 46.137 | ug/l | 97 |
| 4) Vinyl Chloride | 2.202 | 62 | 354948 | 47.848 | ug/l | 100 |
| 5) Bromomethane | 2.592 | 94 | 278901 | 50.342 | ug/l | 100 |
| 6) Chloroethane | 2.732 | 64 | 250831 | 50.860 | ug/l | 100 |
| 7) Trichlorofluoromethane | 3.049 | 101 | 405455 | 44.950 | ug/l | 99 |
| 8) Diethyl Ether | 3.452 | 74 | 111202 | 46.597 | ug/l | 95 |
| 9) 1,1,2-Trichlorotrifluo... | 3.812 | 101 | 200633 | 45.085 | ug/l | 99 |
| 10) Methyl Iodide | 4.001 | 142 | 263764 | 54.928 | ug/l | 98 |
| 11) Tert butyl alcohol | 4.860 | 59 | 62641 | 211.323 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 206109 | 47.120 | ug/l | 97 |
| 13) Acrolein | 3.647 | 56 | 48005 | 110.581 | ug/l | 97 |
| 14) Allyl chloride | 4.378 | 41 | 288345 | 44.800 | ug/l | 97 |
| 15) Acrylonitrile | 5.049 | 53 | 228651 | 235.673 | ug/l | 98 |
| 16) Acetone | 3.866 | 43 | 175331 | 187.073 | ug/l | 97 |
| 17) Carbon Disulfide | 4.104 | 76 | 657020 | 46.066 | ug/l | 100 |
| 18) Methyl Acetate | 4.385 | 43 | 140261 | 50.290 | ug/l | 97 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 538168 | 47.480 | ug/l | 99 |
| 20) Methylene Chloride | 4.610 | 84 | 244646 | 50.247 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 246365 | 50.119 | ug/l | 99 |
| 22) Diisopropyl ether | 6.018 | 45 | 670200 | 47.919 | ug/l | 99 |
| 23) Vinyl Acetate | 5.957 | 43 | 1726827 | 223.289 | ug/l | 98 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 423462 | 49.522 | ug/l | 99 |
| 25) 2-Butanone | 6.896 | 43 | 268264 | 210.456 | ug/l | 97 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 330025 | 44.729 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 286353 | 50.390 | ug/l | 97 |
| 28) Bromochloromethane | 7.244 | 49 | 168646 | 49.712 | ug/l | 96 |
| 29) Tetrahydrofuran | 7.256 | 42 | 176959 | 223.965 | ug/l | 96 |
| 30) Chloroform | 7.421 | 83 | 447102 | 50.699 | ug/l | 98 |
| 31) Cyclohexane | 7.701 | 56 | 338813 | 42.047 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 386894 | 49.443 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 308640 | 47.746 | ug/l | 99 |
| 37) Ethyl Acetate | 6.982 | 43 | 120682 | 44.444 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 341297 | 48.612 | ug/l | 99 |
| 39) Methylcyclohexane | 9.109 | 83 | 387997 | 45.580 | ug/l | 95 |
| 40) Benzene | 8.079 | 78 | 999546 | 50.170 | ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023160.D
Acq On : 19 Aug 2025 19:08
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Aug 20 01:34:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.219 | 41 | 65626 | 41.877 | ug/l | | 87 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 253049 | 48.835 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.195 | 43 | 245293 | 44.694 | ug/l | | 97 |
| 44) Trichloroethene | 8.865 | 130 | 266609 | 51.782 | ug/l | | 100 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 228425 | 49.829 | ug/l | | 99 |
| 46) Dibromomethane | 9.231 | 93 | 131481 | 49.971 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.420 | 83 | 343279 | 50.703 | ug/l | | 99 |
| 48) Methyl methacrylate | 9.219 | 41 | 118237 | 45.021 | ug/l | | 95 |
| 49) 1,4-Dioxane | 9.225 | 88 | 29199 | 946.444 | ug/l | | 90 |
| 51) 4-Methyl-2-Pentanone | 9.993 | 43 | 656710 | 231.971 | ug/l | | 98 |
| 52) Toluene | 10.170 | 92 | 647611 | 51.179 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 296104 | 48.297 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 353426 | 48.751 | ug/l | | 97 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 176672 | 50.180 | ug/l | | 98 |
| 56) Ethyl methacrylate | 10.438 | 69 | 217938 | 48.375 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 292293 | 48.952 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 551100 | 259.330 | ug/l | | 98 |
| 59) 2-Hexanone | 10.755 | 43 | 435049 | 225.681 | ug/l | | 100 |
| 60) Dibromochloromethane | 10.908 | 129 | 238623 | 51.365 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 11.011 | 107 | 164095 | 49.588 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.646 | 164 | 323963 | 56.055 | ug/l | | 98 |
| 65) Chlorobenzene | 11.438 | 112 | 704107 | 50.434 | ug/l | | 95 |
| 66) 1,1,1,2-Tetrachloroethane | 11.511 | 131 | 243596 | 51.411 | ug/l | | 100 |
| 67) Ethyl Benzene | 11.517 | 91 | 1222605 | 50.888 | ug/l | | 98 |
| 68) m/p-Xylenes | 11.627 | 106 | 966978 | 103.051 | ug/l | | 98 |
| 69) o-Xylene | 11.950 | 106 | 455236 | 51.799 | ug/l | | 99 |
| 70) Styrene | 11.969 | 104 | 763639 | 53.132 | ug/l | | 98 |
| 71) Bromoform | 12.127 | 173 | 135638 | 48.980 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.249 | 105 | 1161331 | 49.330 | ug/l | | 99 |
| 74) N-amyl acetate | 12.066 | 43 | 217737 | 43.613 | ug/l | | 97 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 172951 | 43.025 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 155632m | 48.345 | ug/l | | |
| 77) Bromobenzene | 12.529 | 156 | 273466 | 48.690 | ug/l | | 98 |
| 78) n-propylbenzene | 12.590 | 91 | 1387452 | 49.502 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 784149 | 48.829 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.731 | 105 | 954748 | 50.180 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 57362 | 43.134 | ug/l | | 99 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 816232 | 48.995 | ug/l | | 99 |
| 83) tert-Butylbenzene | 12.993 | 119 | 857857 | 49.921 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 956661 | 50.510 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.170 | 105 | 1249164 | 49.485 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.285 | 119 | 1065308 | 50.842 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 549837 | 49.644 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 534086 | 48.611 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.615 | 91 | 957330 | 49.746 | ug/l | | 99 |
| 90) Hexachloroethane | 13.877 | 117 | 214503 | 50.008 | ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 477680 | 49.177 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 28063 | 44.839 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 14.913 | 180 | 261664 | 45.553 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 15.017 | 225 | 153359 | 45.434 | ug/l | | 98 |
| 95) Naphthalene | 15.139 | 128 | 452211 | 46.168 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.328 | 180 | 224276 | 45.311 | ug/l | | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023160.D
Acq On : 19 Aug 2025 19:08
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Aug 20 01:34:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

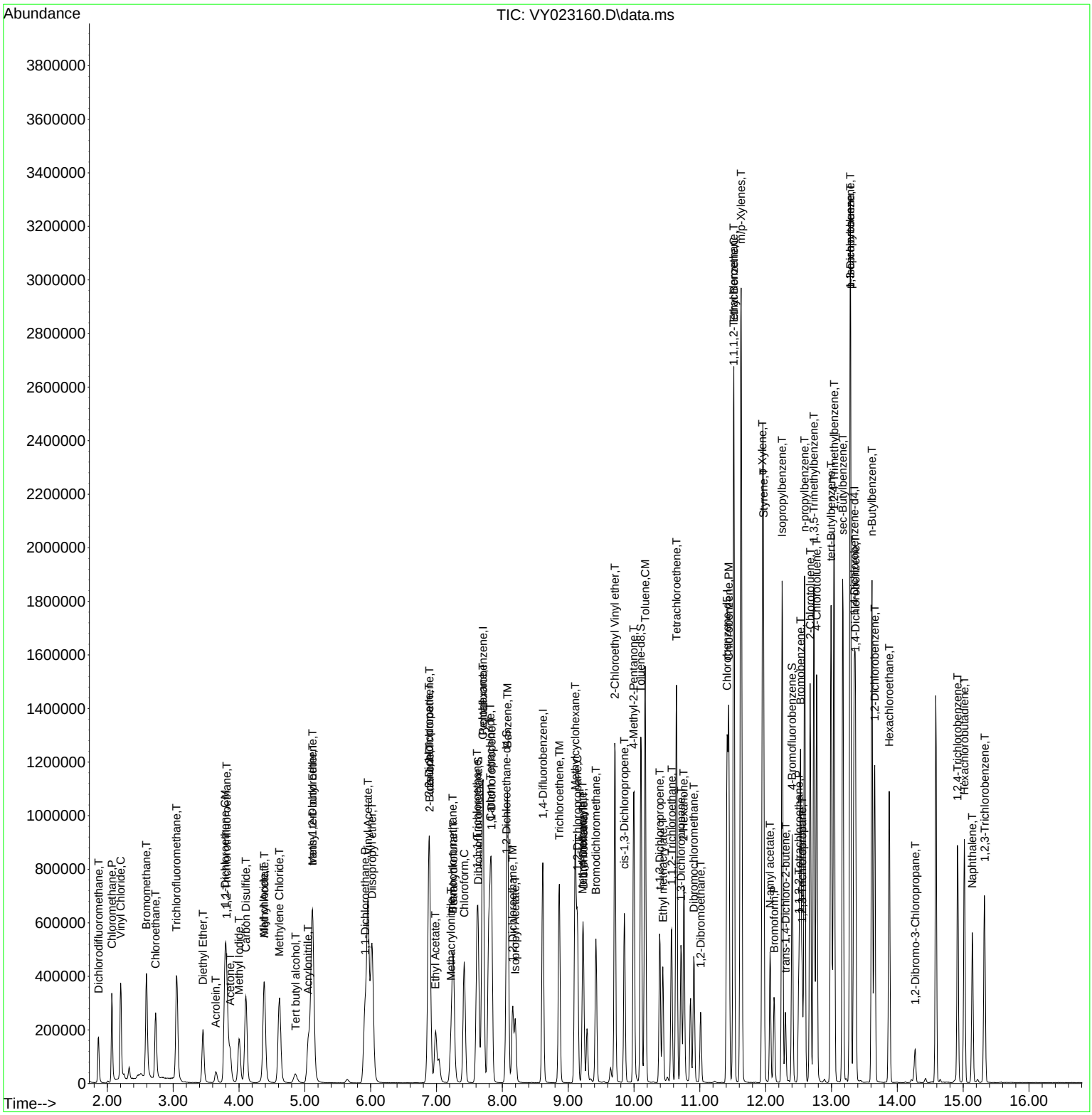
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023160.D
Acq On : 19 Aug 2025 19:08
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

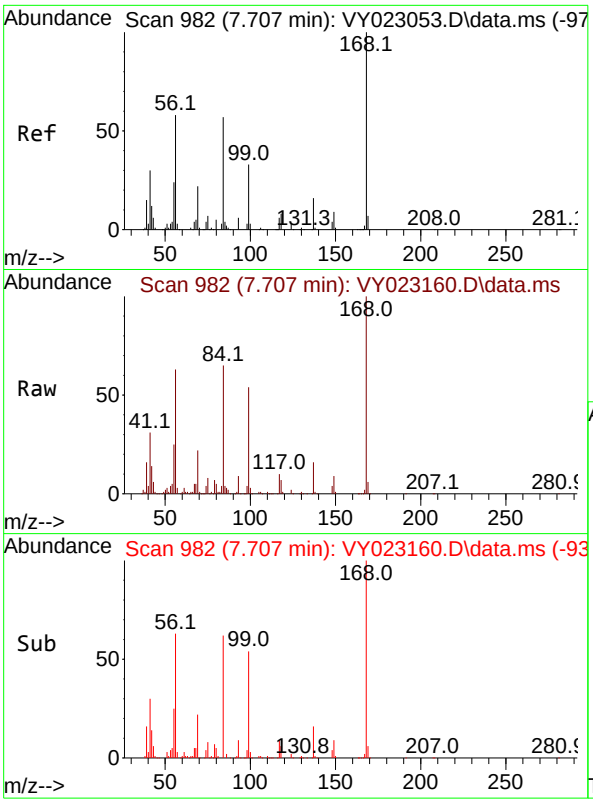
Quant Time: Aug 20 01:34:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

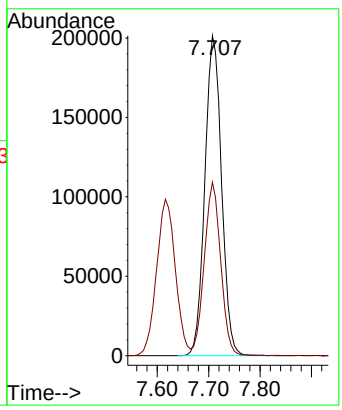





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:168 Resp: 45391

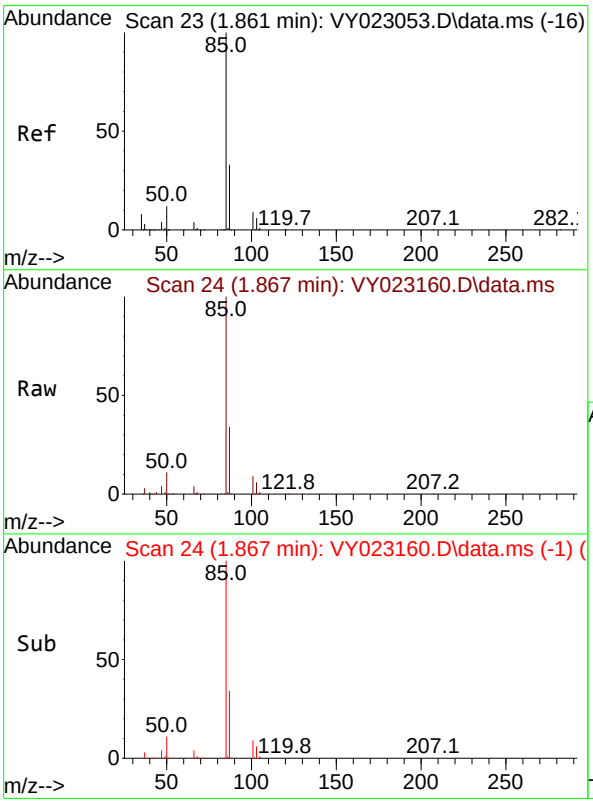
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 54.1 | 42.8 | 64.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

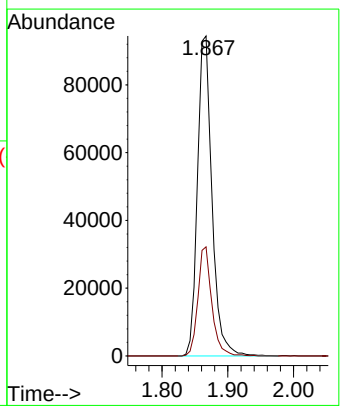
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

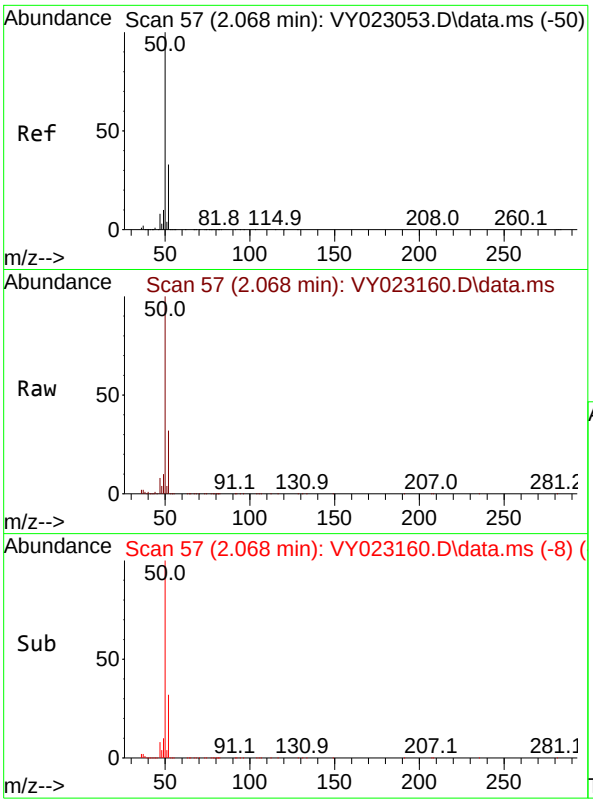



#2
Dichlorodifluoromethane
Concen: 39.160 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 85 Resp: 145094

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 34.1 | 16.6 | 49.8 |

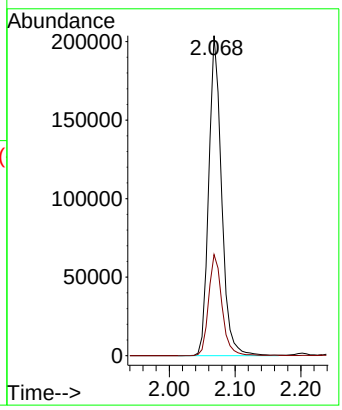





#3
Chloromethane
Concen: 46.137 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 50 Resp: 27687

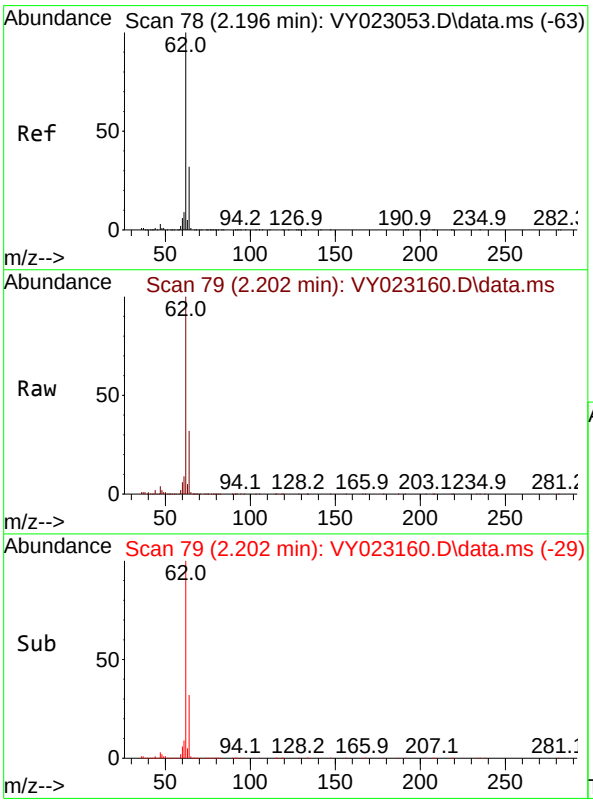
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.6 | 26.7 | 40.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

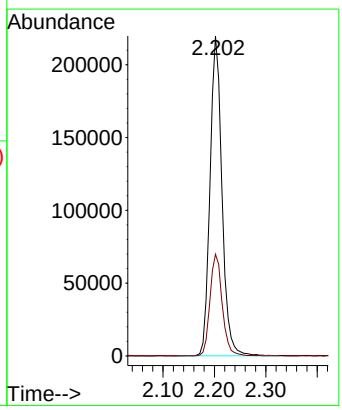
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

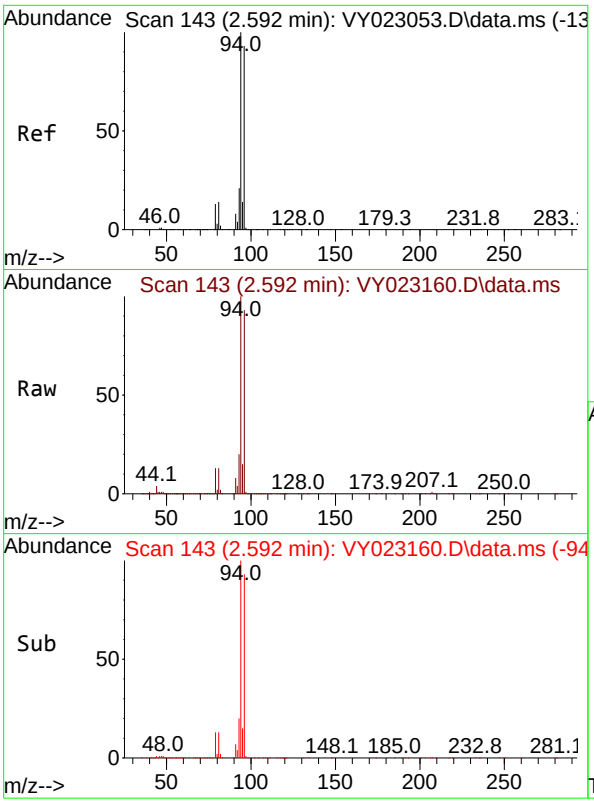



#4
Vinyl Chloride
Concen: 47.848 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 62 Resp: 354948

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.8 | 25.4 | 38.0 |

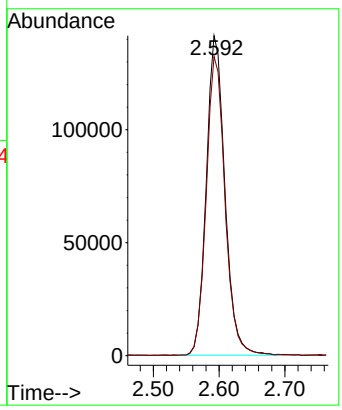





#5
Bromomethane
Concen: 50.342 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 94 Resp: 27890

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 93.5 | 74.6 | 112.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 08/20/2025
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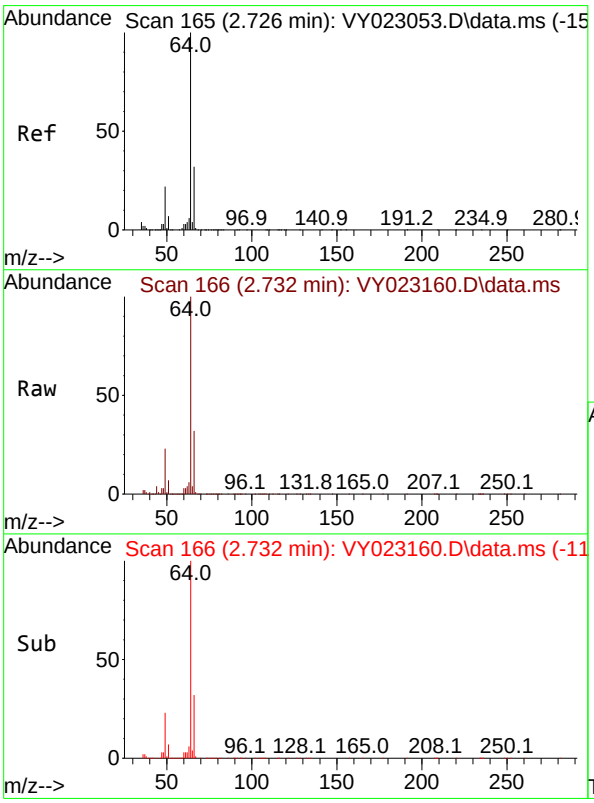
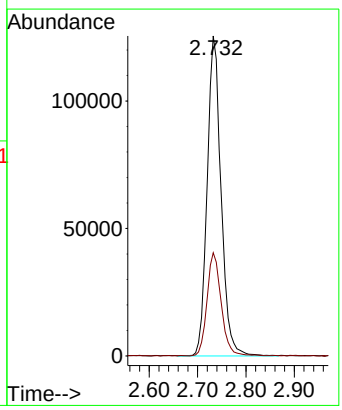
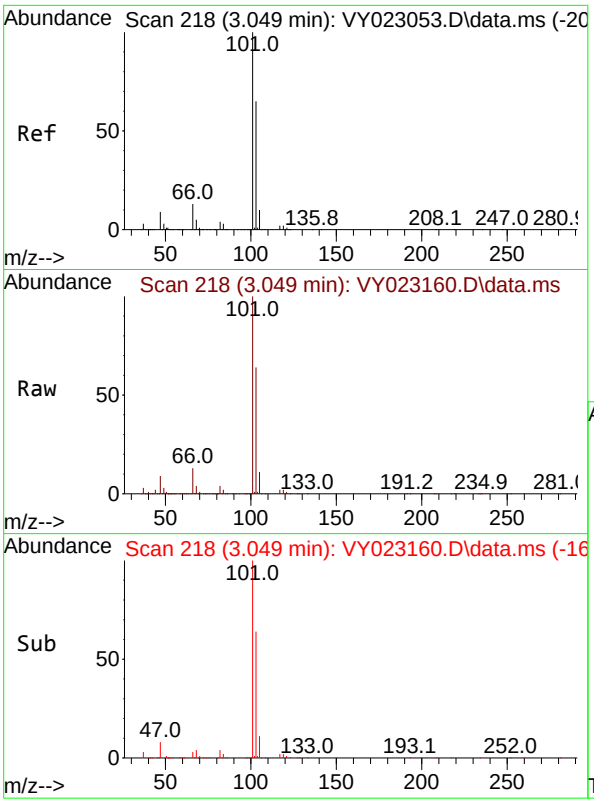



#6
Chloroethane
Concen: 50.860 ug/l
RT: 2.732 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 64 Resp: 250831

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.1 | 25.8 | 38.6 |

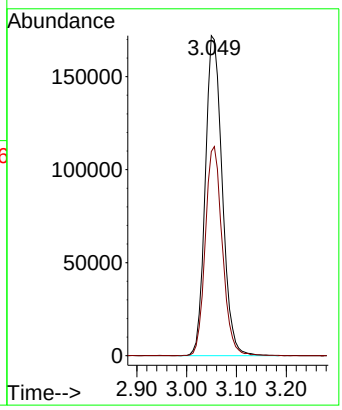





#7
Trichlorofluoromethane
Concen: 44.950 ug/l
RT: 3.049 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:101 Resp: 40545

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.8 | 51.9 | 77.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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Reviewed By :John Carlone 08/20/2025
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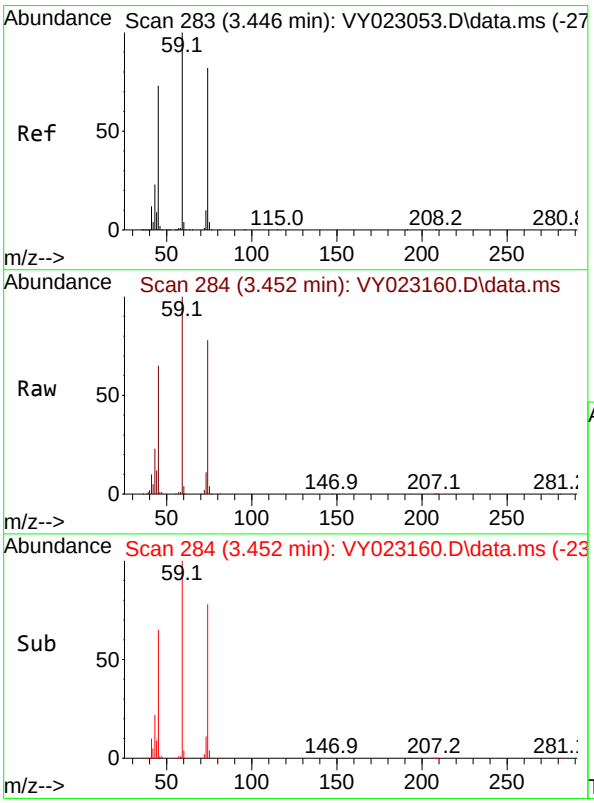
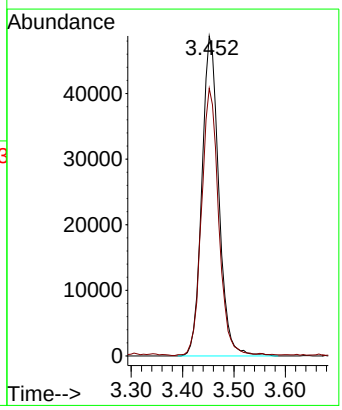
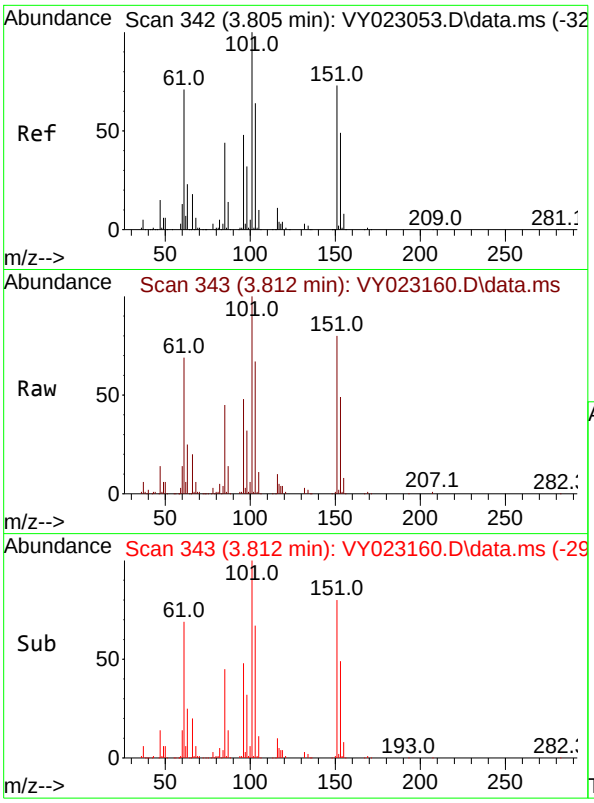



#8
Diethyl Ether
Concen: 46.597 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 74 Resp: 111202

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 84.5 | 44.4 | 133.2 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 45.085 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:101 Resp: 20063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 45.2 | 36.3 | 54.5 |
| 151 | 78.1 | 61.5 | 92.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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Reviewed By :John Carlone 08/20/2025
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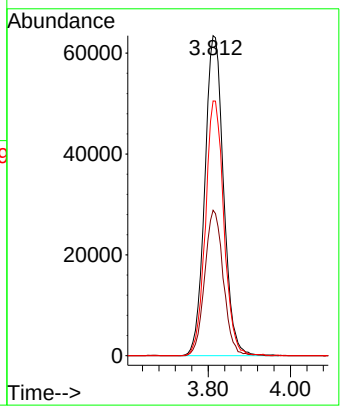
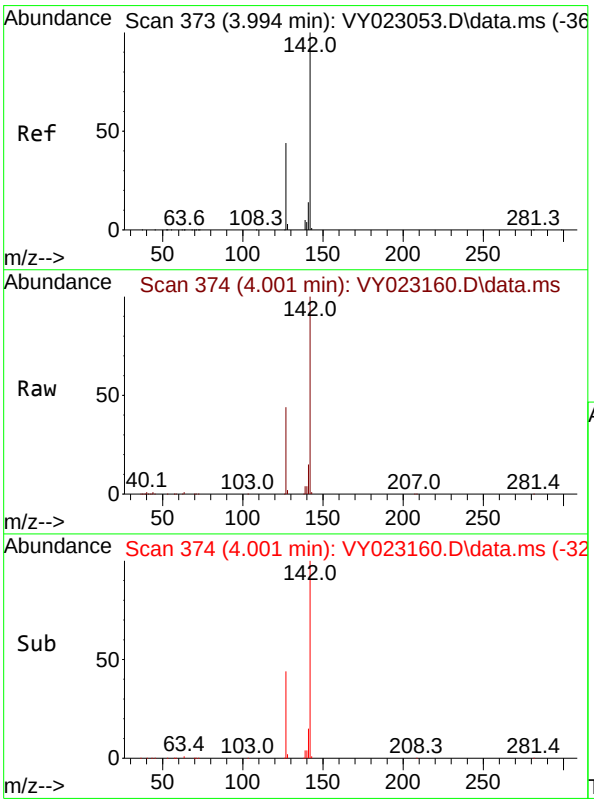
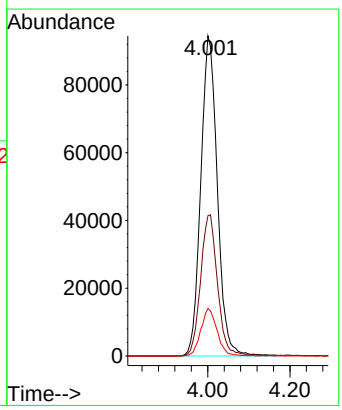


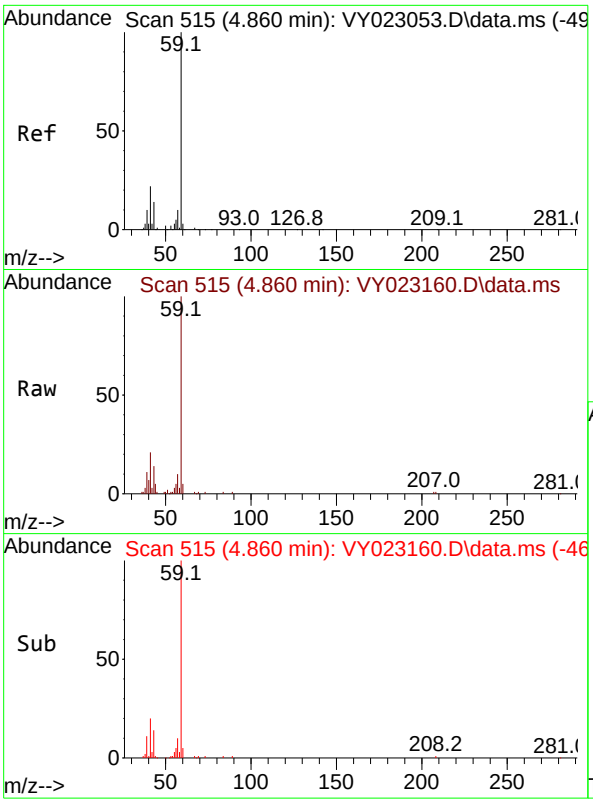




#10
Methyl Iodide
Concen: 54.928 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:142 Resp: 263764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 45.1 | 34.9 | 52.3 |
| 141 | 14.6 | 11.3 | 16.9 |

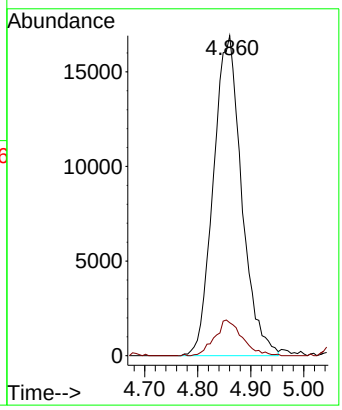





#11
Tert butyl alcohol
Concen: 211.323 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 59 Resp: 6264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.8 | 8.6 | 13.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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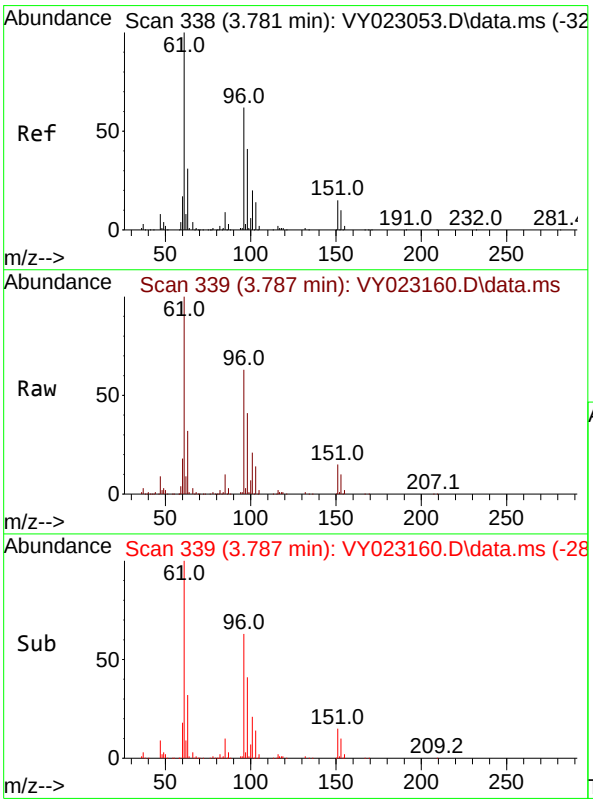
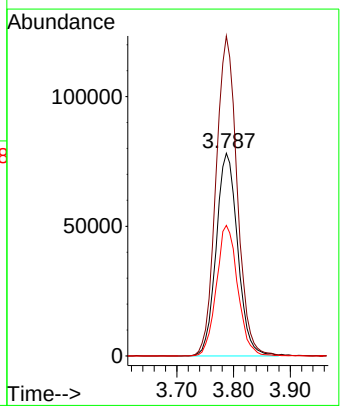
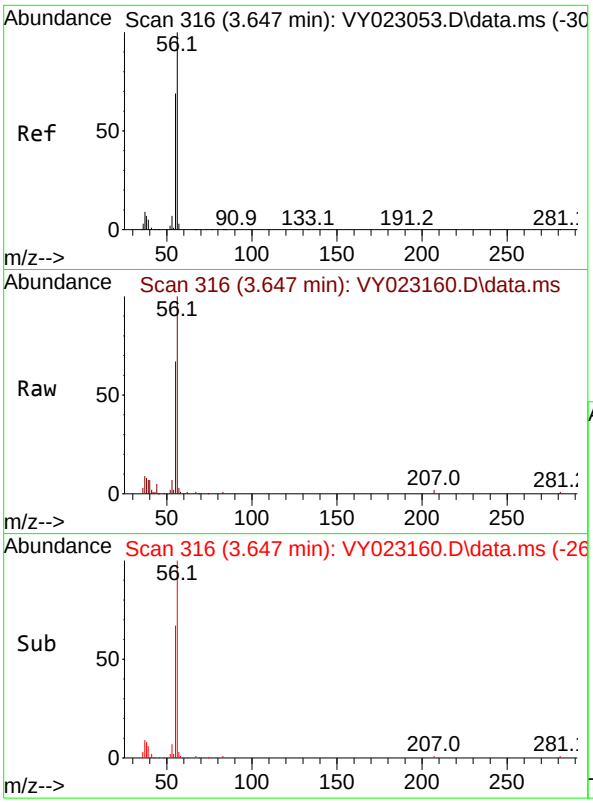



#12
1,1-Dichloroethene
Concen: 47.120 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 96 Resp: 206109

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 157.9 | 129.4 | 194.2 |
| 98 | 64.4 | 52.8 | 79.2 |

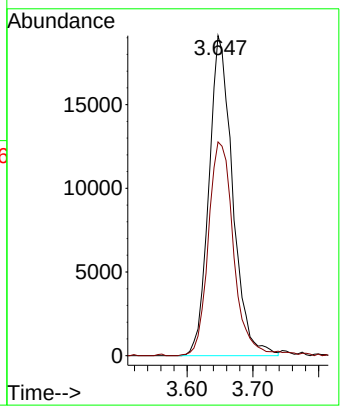





#13
Acrolein
Concen: 110.581 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 56 Resp: 4800

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 71.1 | 55.2 | 82.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

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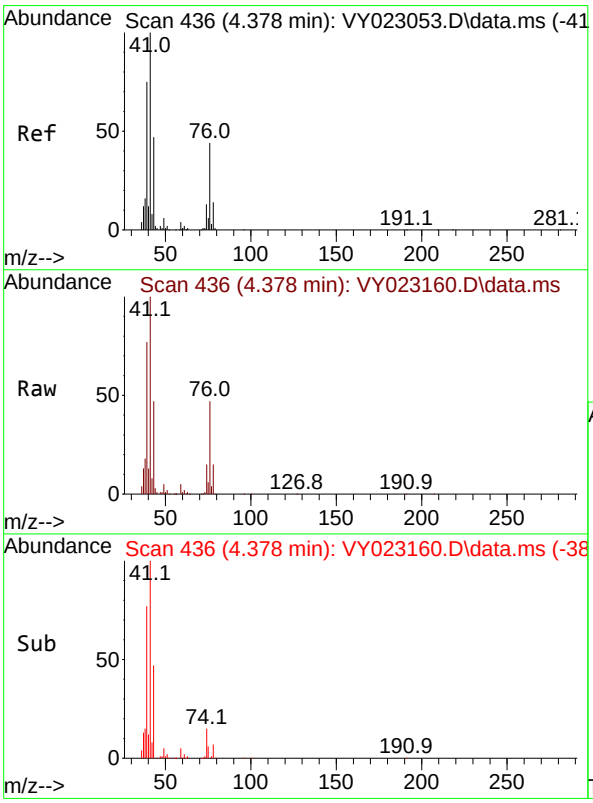
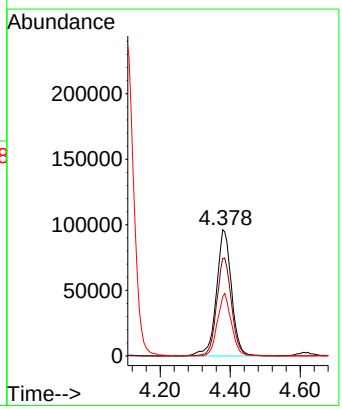
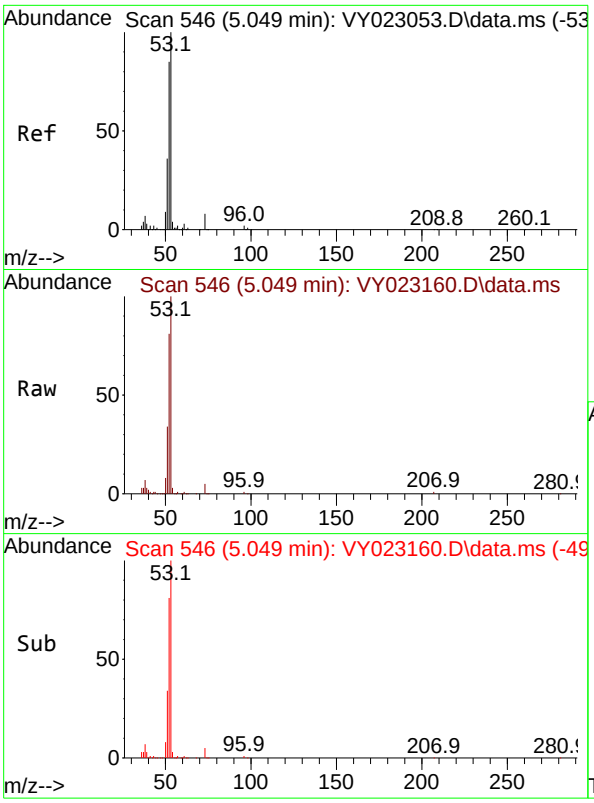



#14
Allyl chloride
Concen: 44.800 ug/l
RT: 4.378 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 41 Resp: 288345

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 76.3 | 59.8 | 89.6 |
| 76 | 45.6 | 33.7 | 50.5 |






#15
Acrylonitrile
Concen: 235.673 ug/l
RT: 5.049 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 53 Resp: 22865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 79.4 | 65.3 | 97.9 |
| 51 | 37.0 | 29.5 | 44.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

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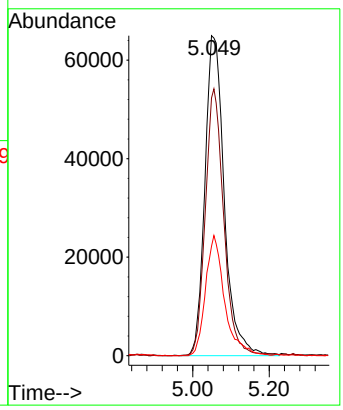
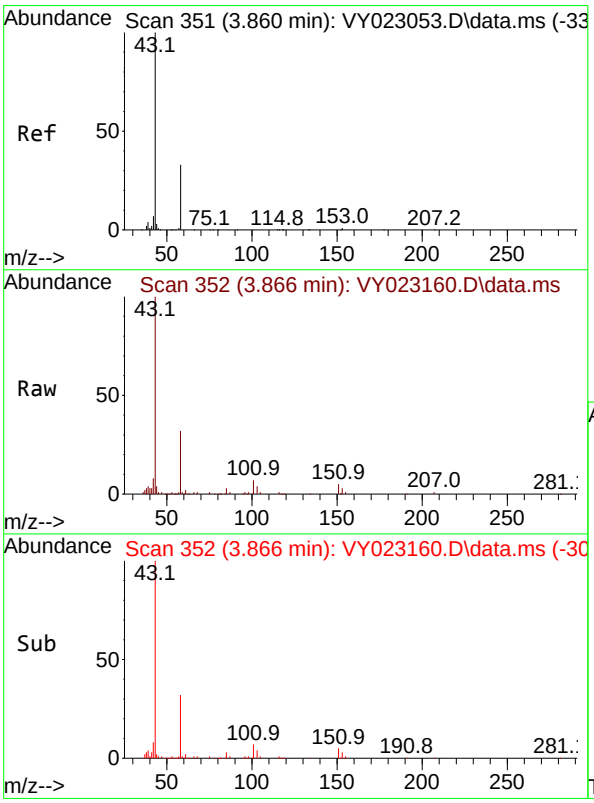
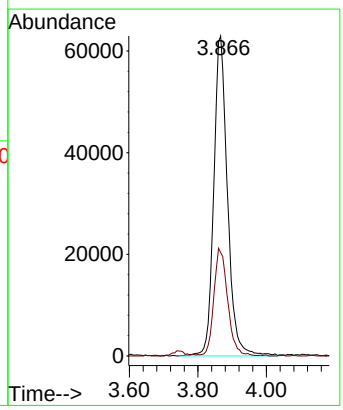


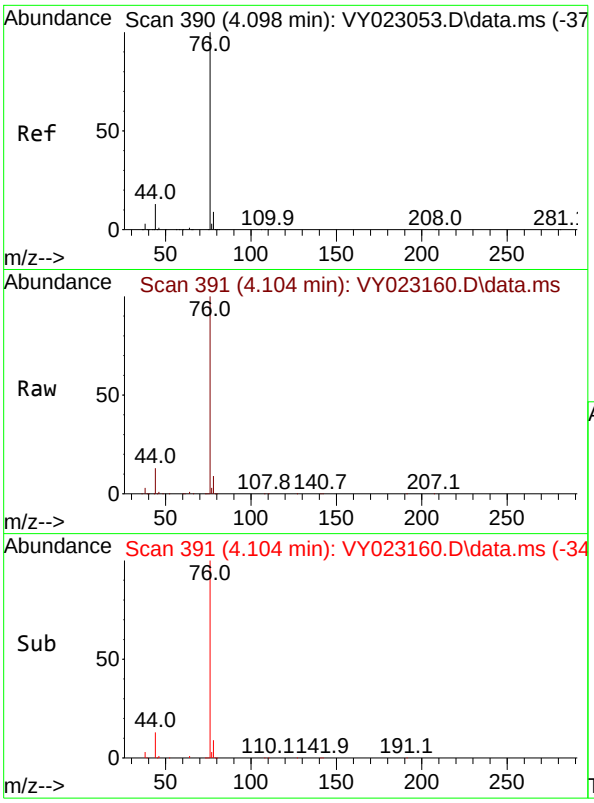




#16
Acetone
Concen: 187.073 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 43 Resp: 175331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.1 | 27.1 | 40.7 |

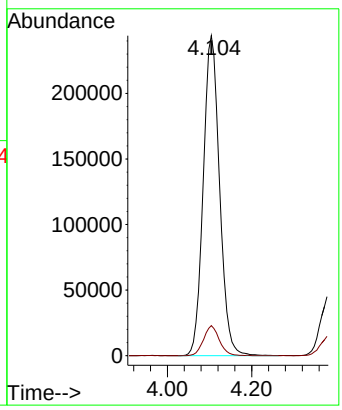





#17
Carbon Disulfide
Concen: 46.066 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 76 Resp: 65702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.4 | 7.4 | 11.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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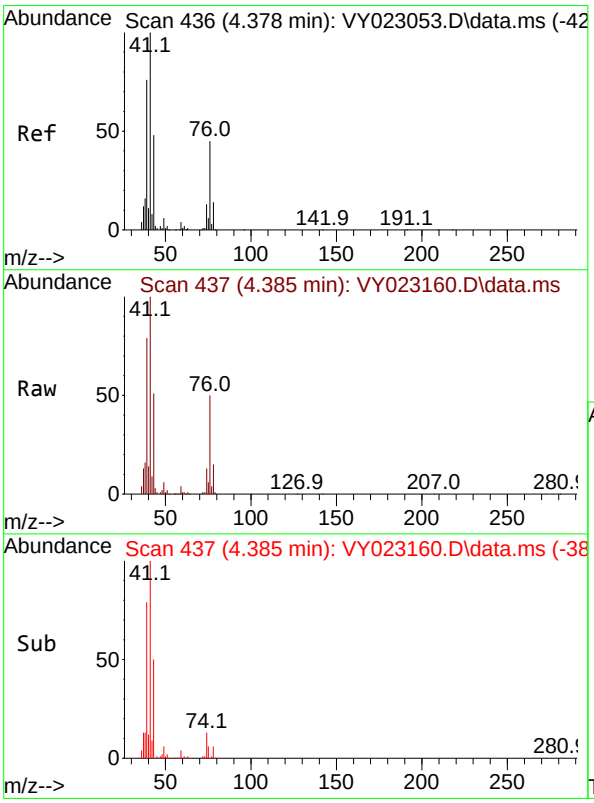
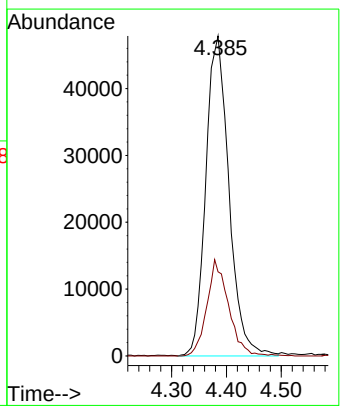
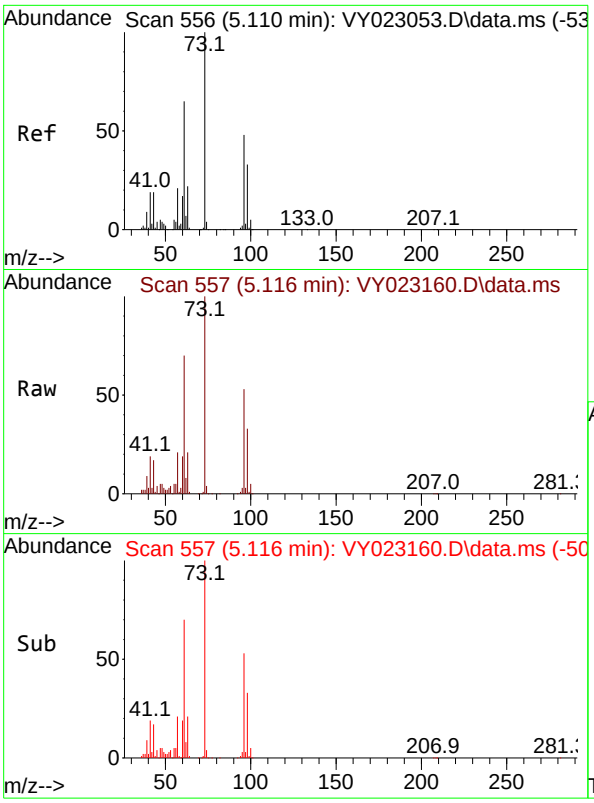



#18
Methyl Acetate
Concen: 50.290 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 43 Resp: 140261

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 28.1 | 21.2 | 31.8 |

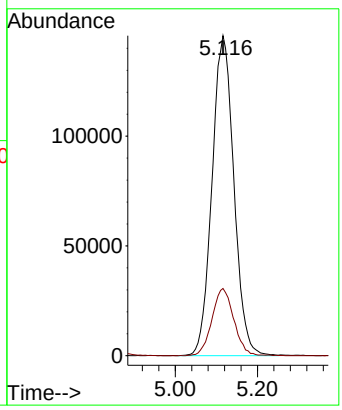





#19
Methyl tert-butyl Ether
Concen: 47.480 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 73 Resp: 53816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.0 | 17.1 | 25.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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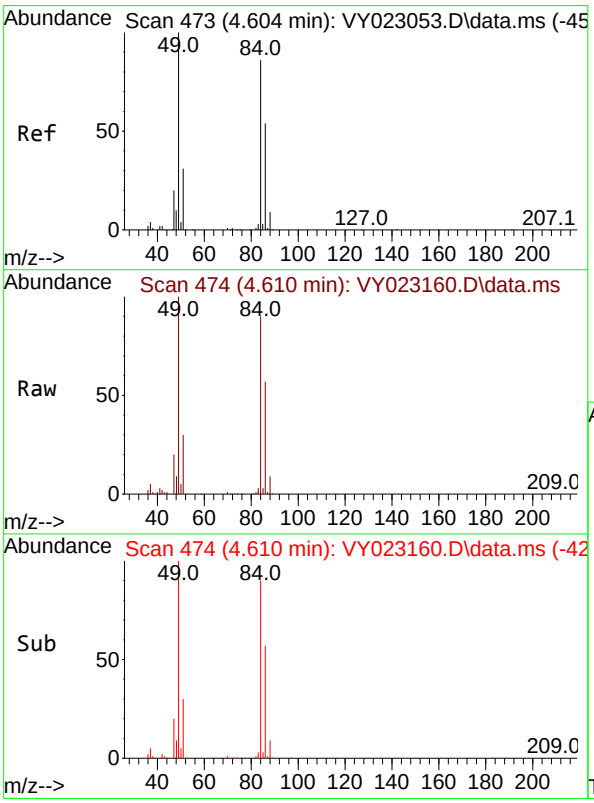
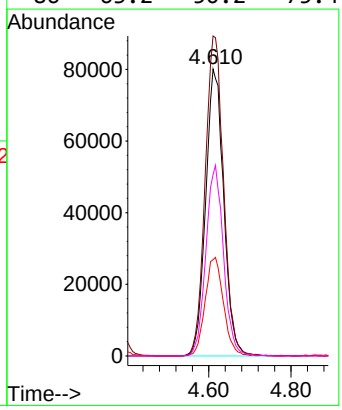
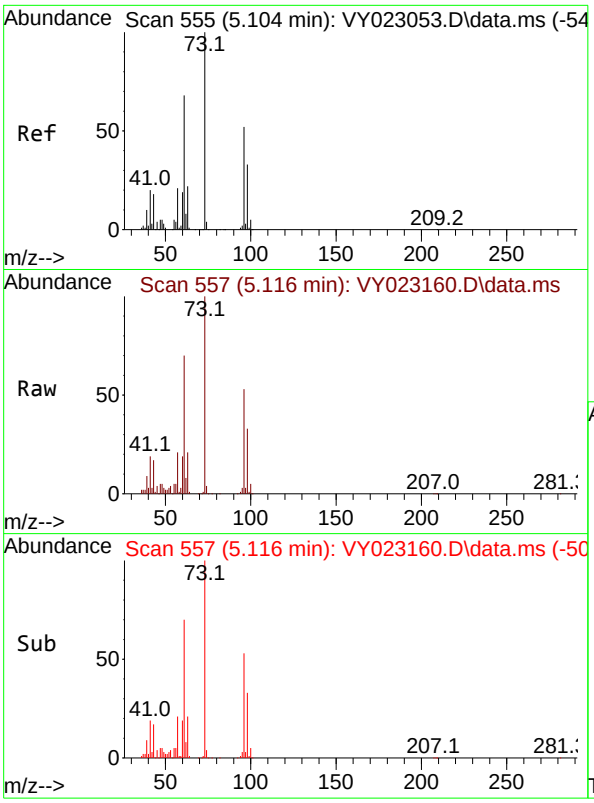



#20
Methylene Chloride
Concen: 50.247 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 84 Resp: 244646

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 111.5 | 93.0 | 139.6 |
| 51 | 33.6 | 29.0 | 43.4 |
| 86 | 63.2 | 50.2 | 75.4 |

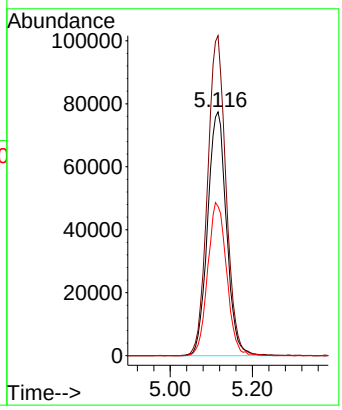





#21
trans-1,2-Dichloroethene
Concen: 50.119 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 96 Resp: 24636

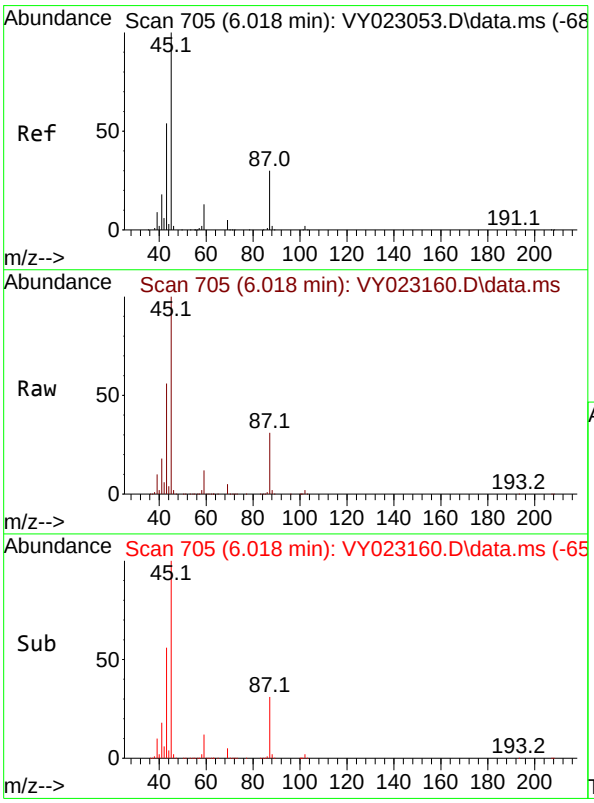
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 131.2 | 104.8 | 157.2 |
| 98 | 61.2 | 50.1 | 75.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

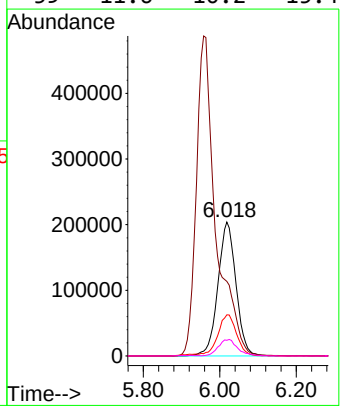
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

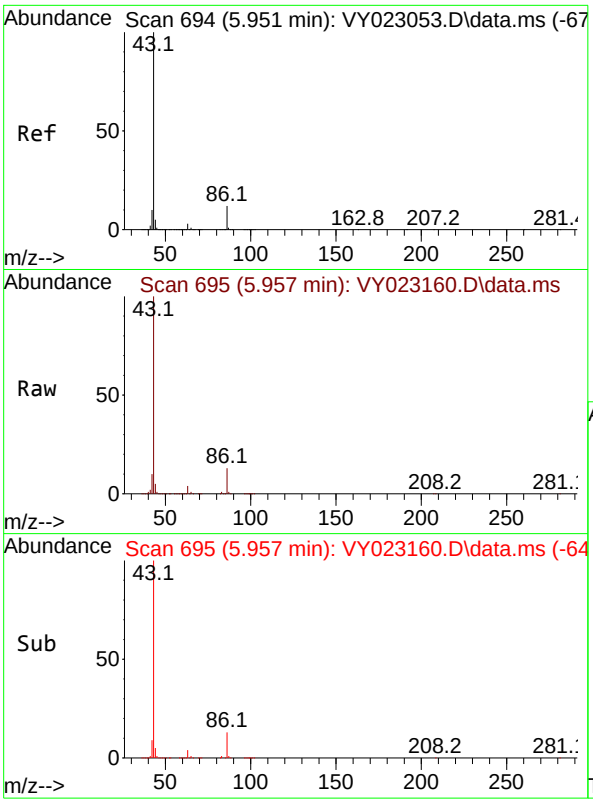



#22
Diisopropyl ether
Concen: 47.919 ug/l
RT: 6.018 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 45 Resp: 670200

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 55.5 | 43.4 | 65.0 |
| 87 | 30.7 | 24.4 | 36.6 |
| 59 | 11.6 | 10.2 | 15.4 |

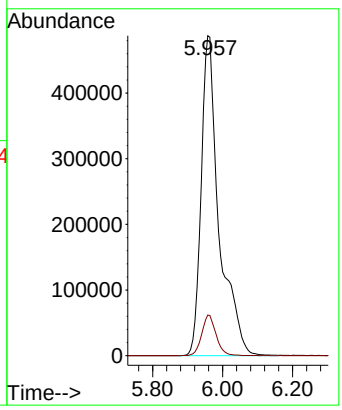





#23
Vinyl Acetate
Concen: 223.289 ug/l
RT: 5.957 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 43 Resp: 172682

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 12.7 | 9.6 | 14.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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Reviewed By :John Carlone 08/20/2025
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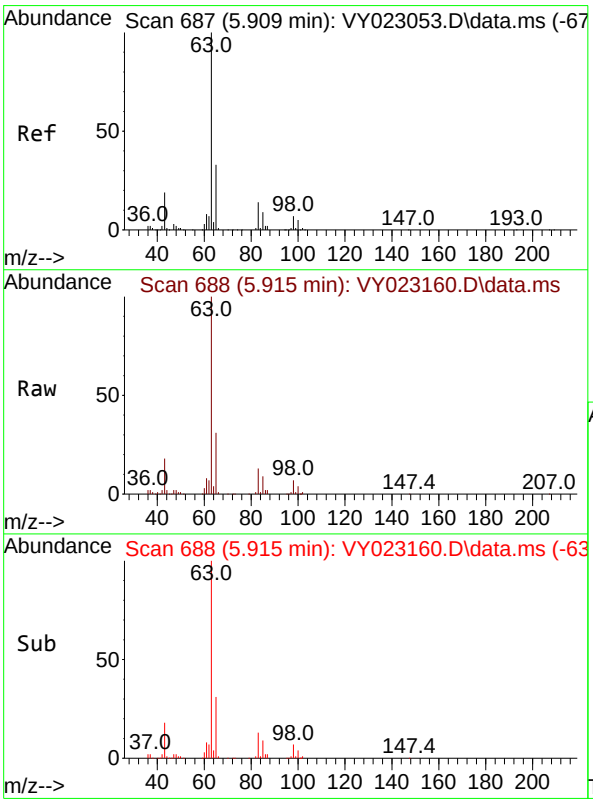
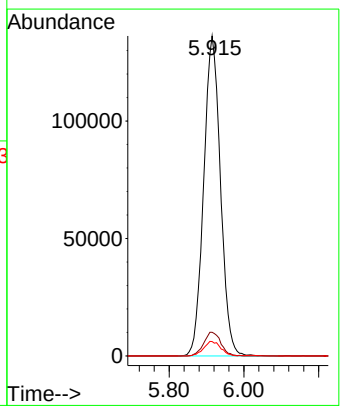
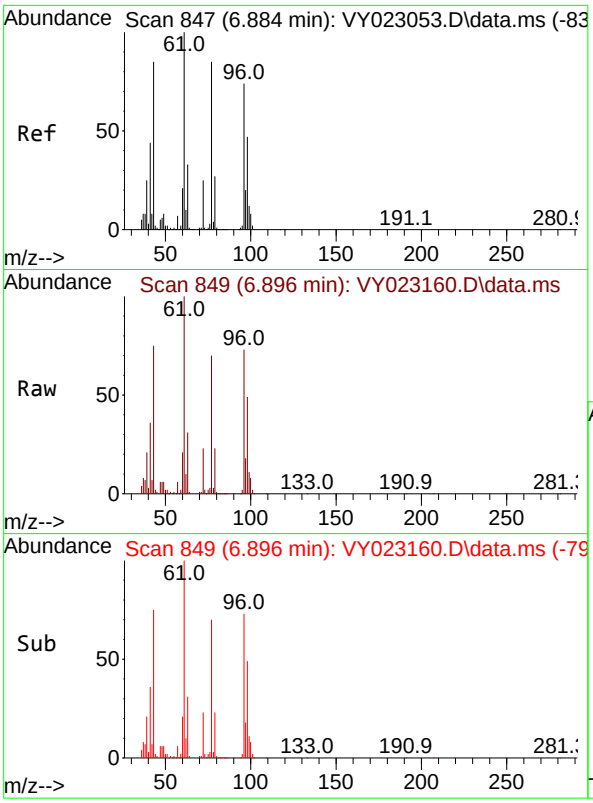



#24
1,1-Dichloroethane
Concen: 49.522 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 63 Resp: 423462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.4 | 3.5 | 10.6 |
| 100 | 4.5 | 2.4 | 7.1 |






#25
2-Butanone
Concen: 210.456 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.012 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 43 Resp: 26826

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 30.8 | 23.5 | 35.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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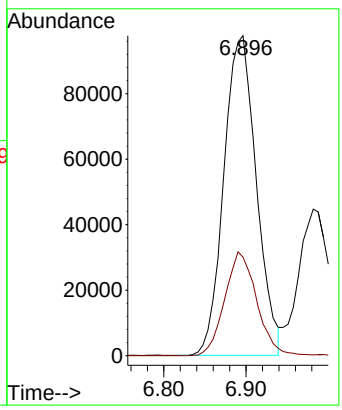
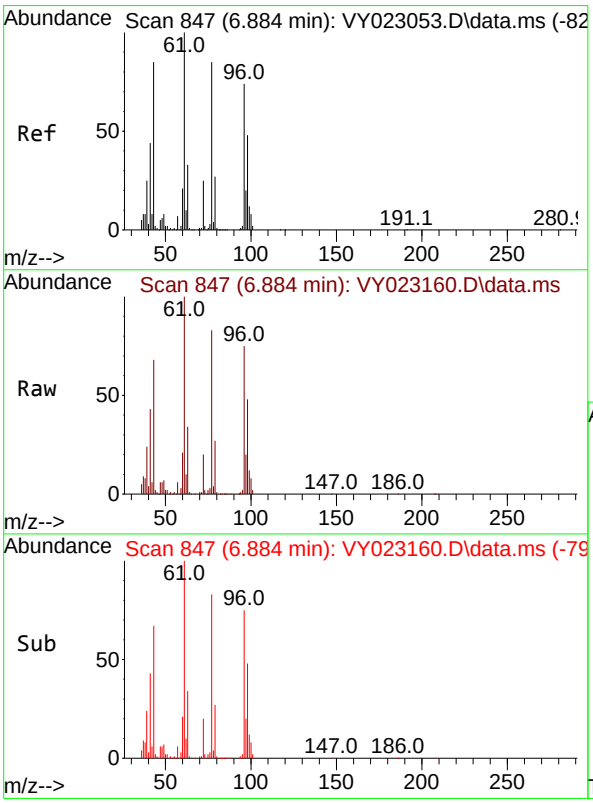
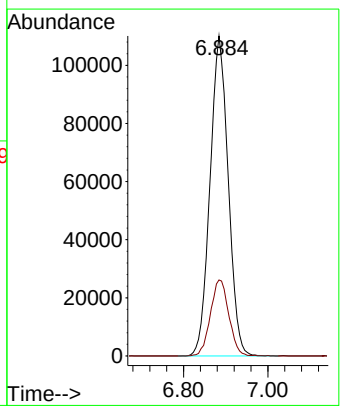


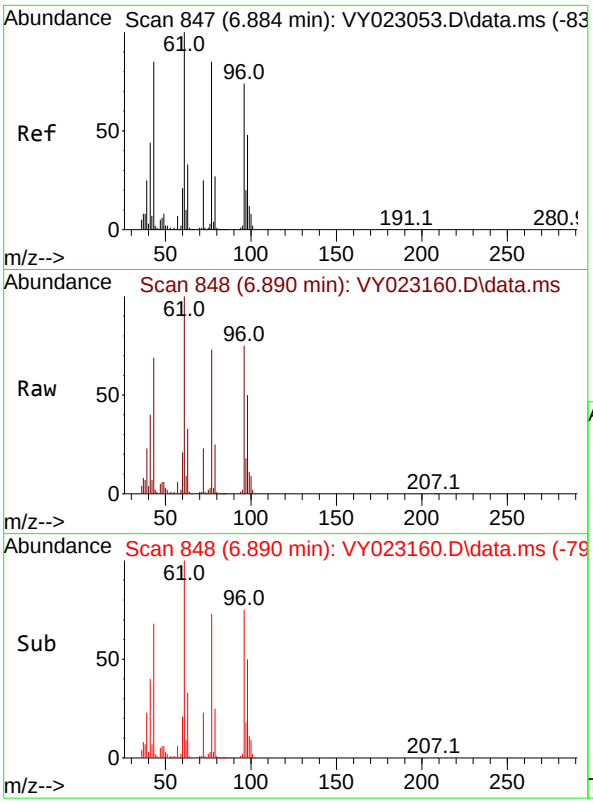




#26
2,2-Dichloropropane
Concen: 44.729 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 77 Resp: 330025

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 24.0 | 11.6 | 34.8 |






#27
cis-1,2-Dichloroethene
Concen: 50.390 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 96 Resp: 28635

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 135.0 | 0.0 | 278.6 |
| 98 | 64.2 | 0.0 | 130.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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Reviewed By :John Carlone 08/20/2025
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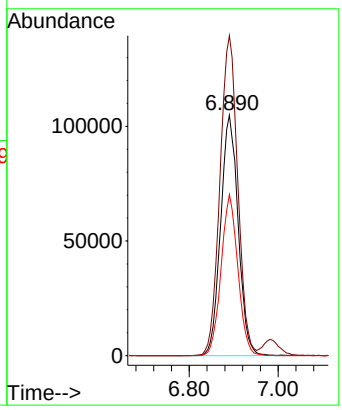
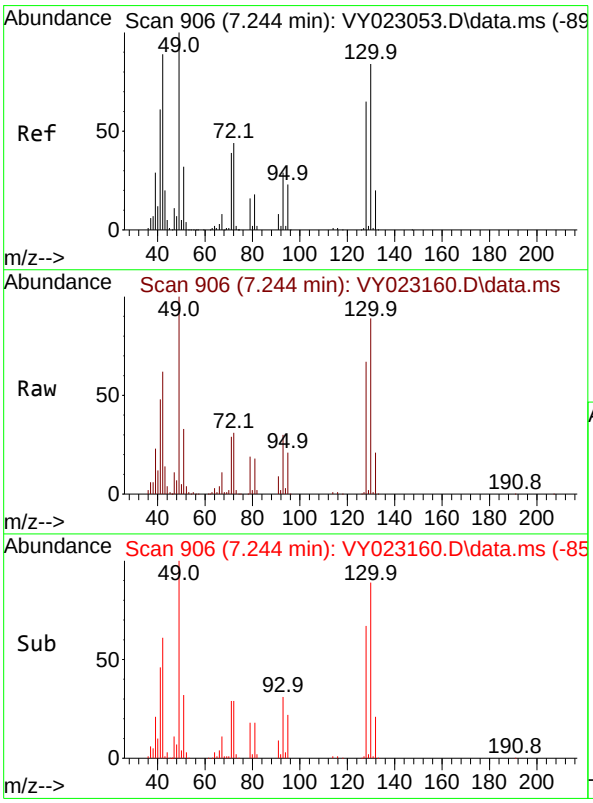
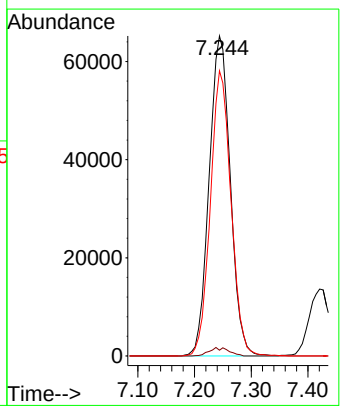


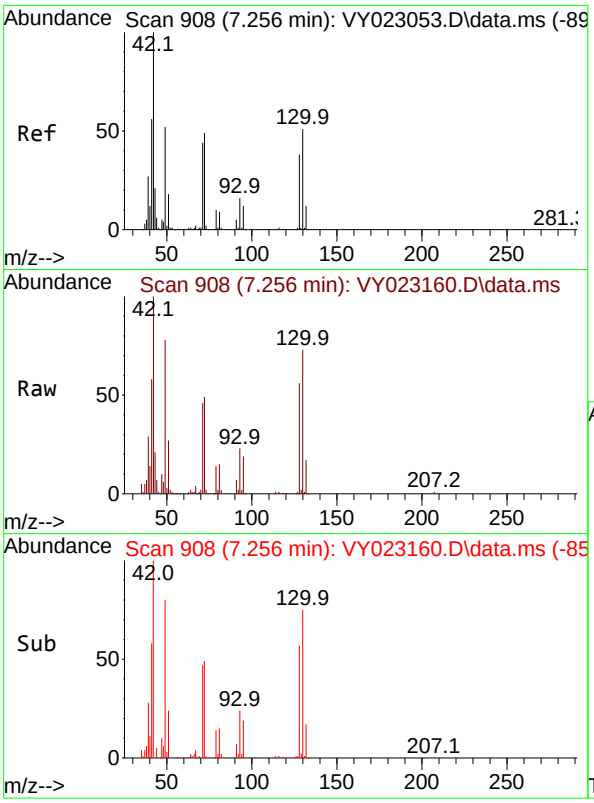




#28
Bromochloromethane
Concen: 49.712 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 49 Resp: 168646

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.5 | 0.0 | 4.2 |
| 130 | 87.0 | 66.4 | 99.6 |

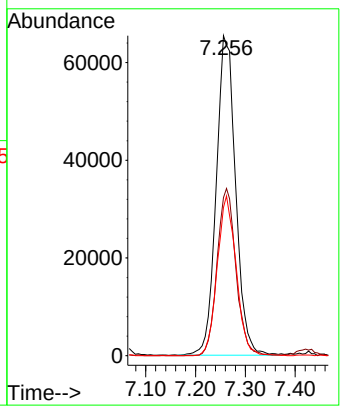





#29
Tetrahydrofuran
Concen: 223.965 ug/l
RT: 7.256 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 42 Resp: 17695

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 51.0 | 39.4 | 59.2 |
| 71 | 48.7 | 36.5 | 54.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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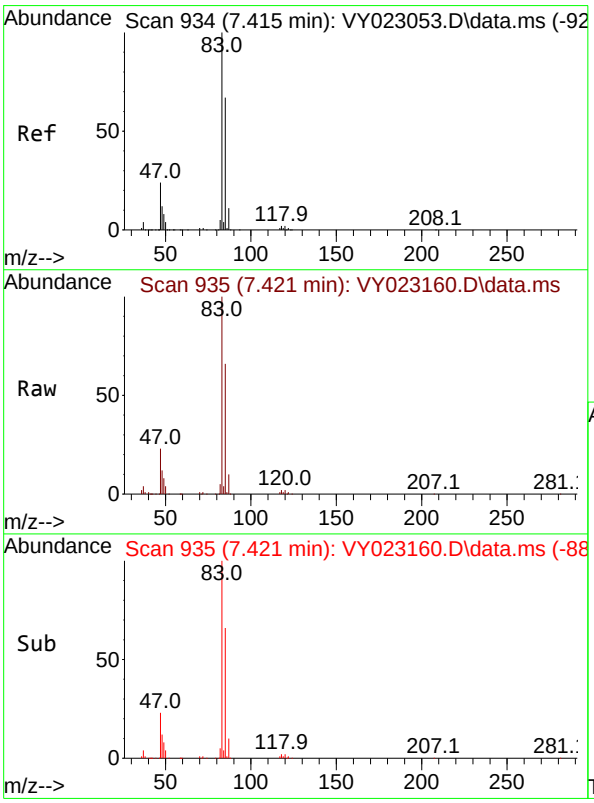
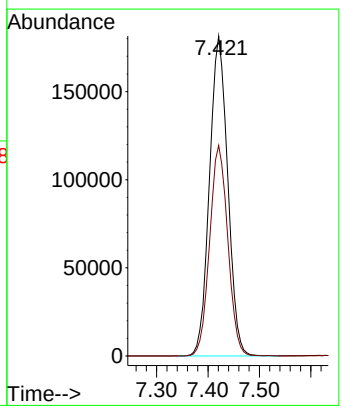
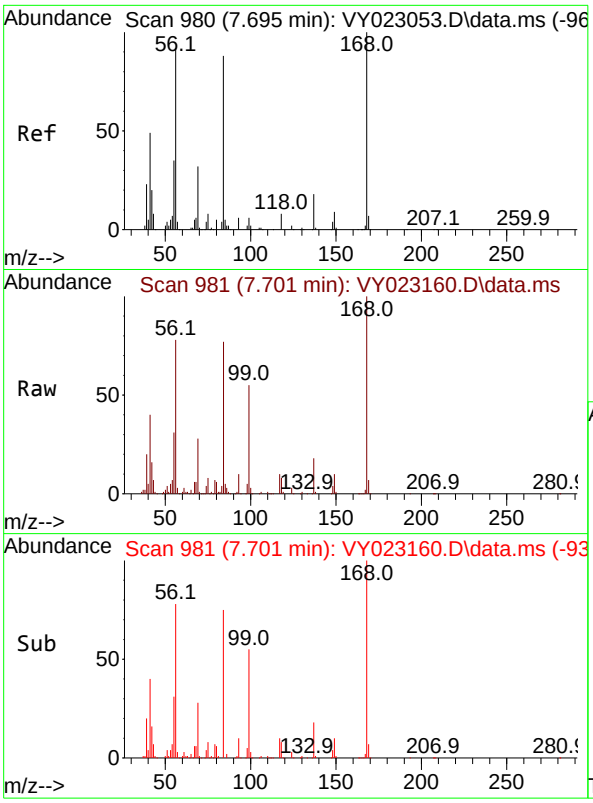



#30
Chloroform
Concen: 50.699 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 83 Resp: 447102

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.8 | 53.8 | 80.8 |

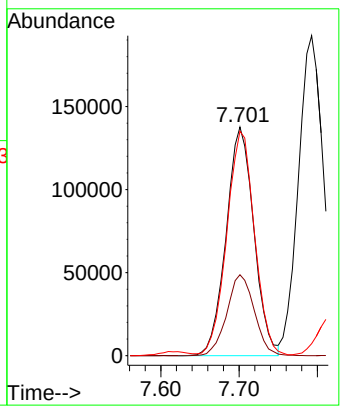





#31
Cyclohexane
Concen: 42.047 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 56 Resp: 33881

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 35.4 | 28.2 | 42.2 |
| 84 | 96.4 | 76.6 | 114.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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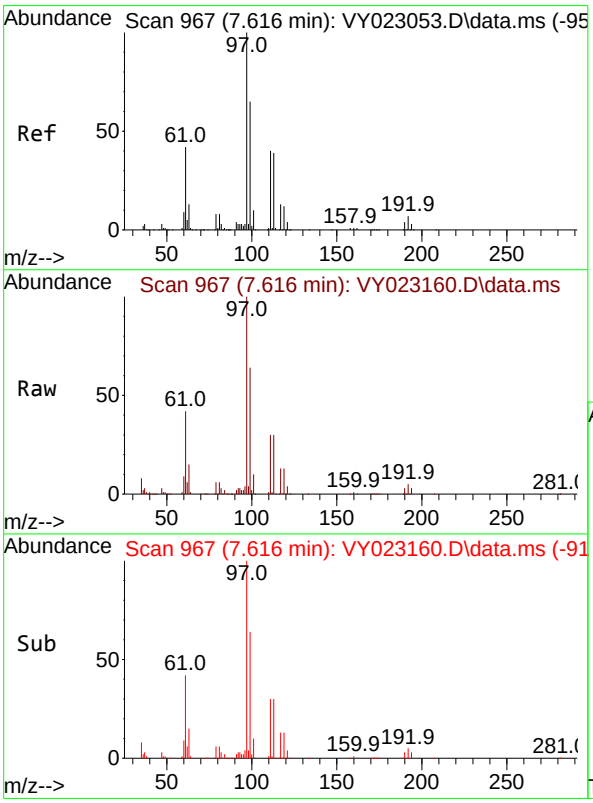
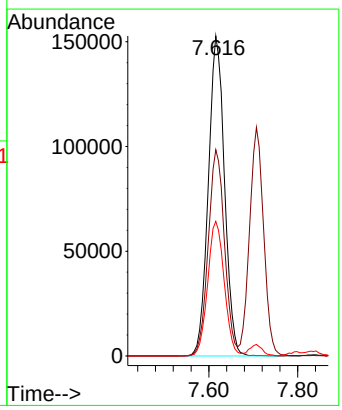
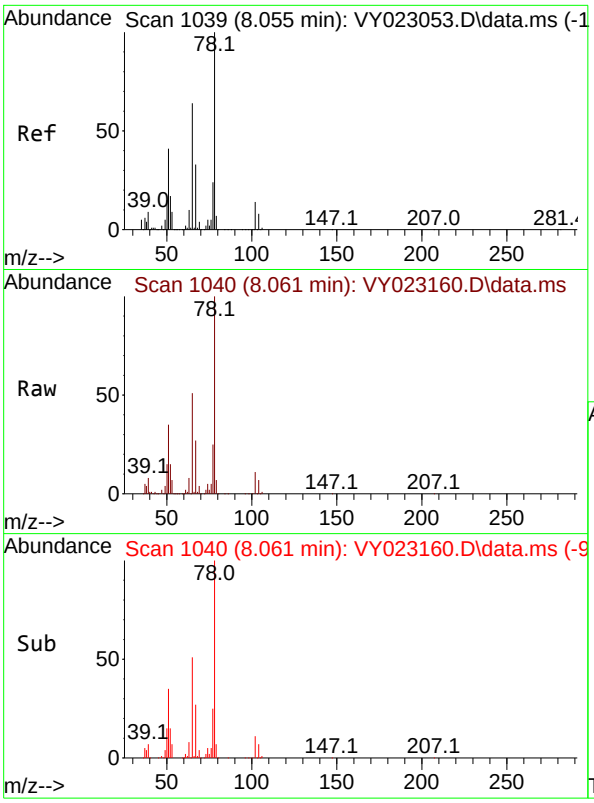



#32
1,1,1-Trichloroethane
Concen: 49.443 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 97 Resp: 386894

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.8 | 51.6 | 77.4 |
| 61 | 42.9 | 34.2 | 51.2 |

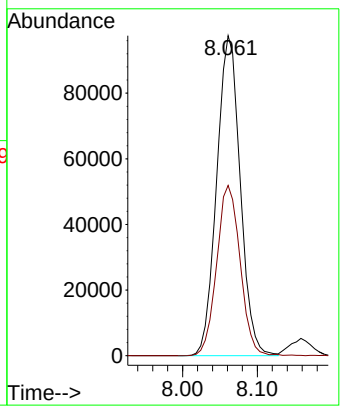





#33
1,2-Dichloroethane-d4
Concen: 49.322 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 65 Resp: 21337

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.0 | 0.0 | 106.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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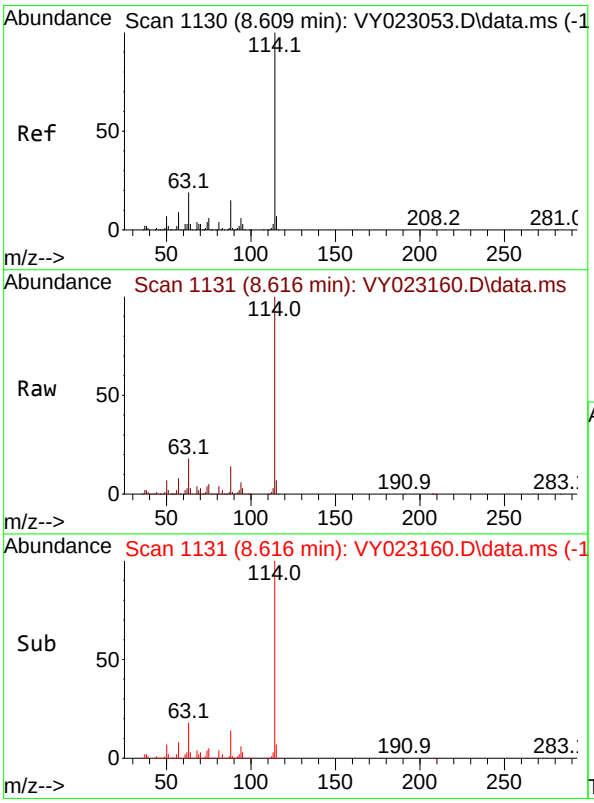
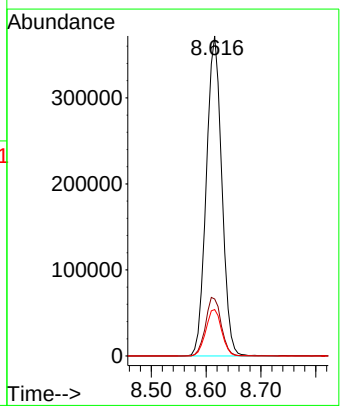
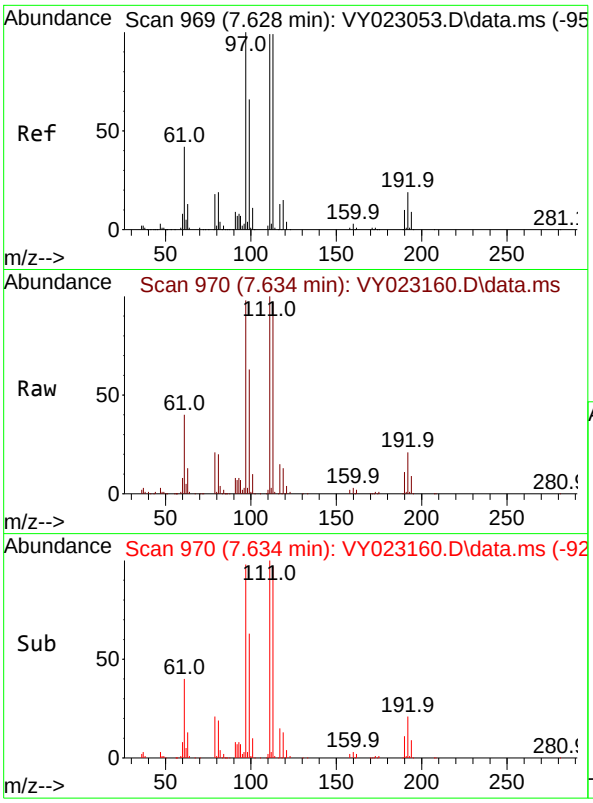



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:114 Resp: 726912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 17.8 | 0.0 | 38.4 |
| 88 | 14.5 | 0.0 | 30.0 |

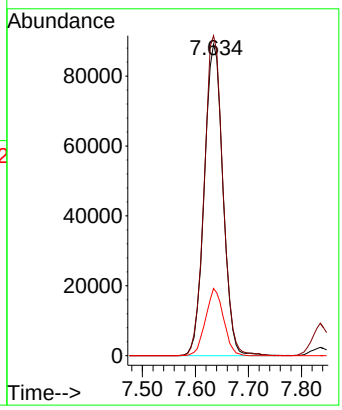





#35
Dibromofluoromethane
Concen: 49.903 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:113 Resp: 21705

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.8 | 81.1 | 121.7 |
| 192 | 20.9 | 16.2 | 24.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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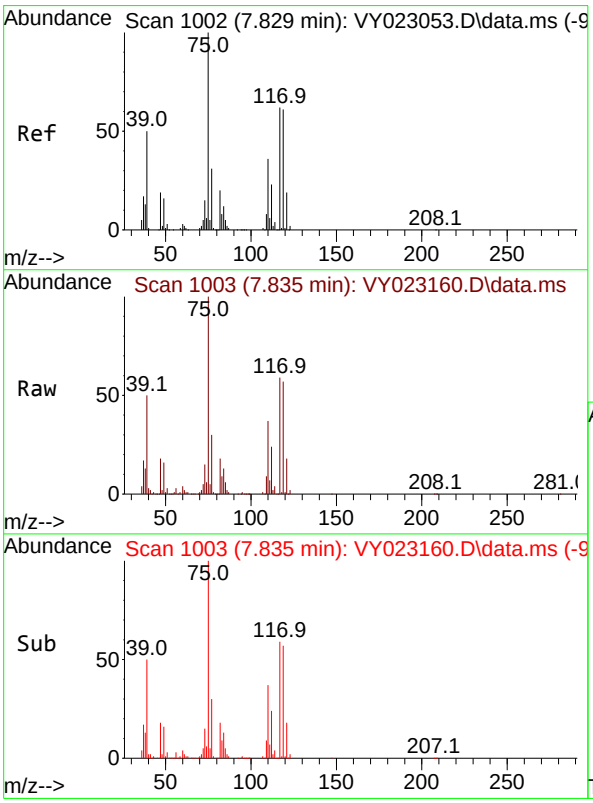
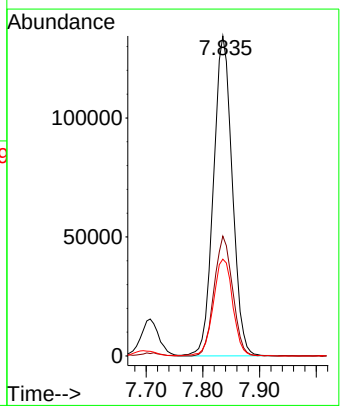
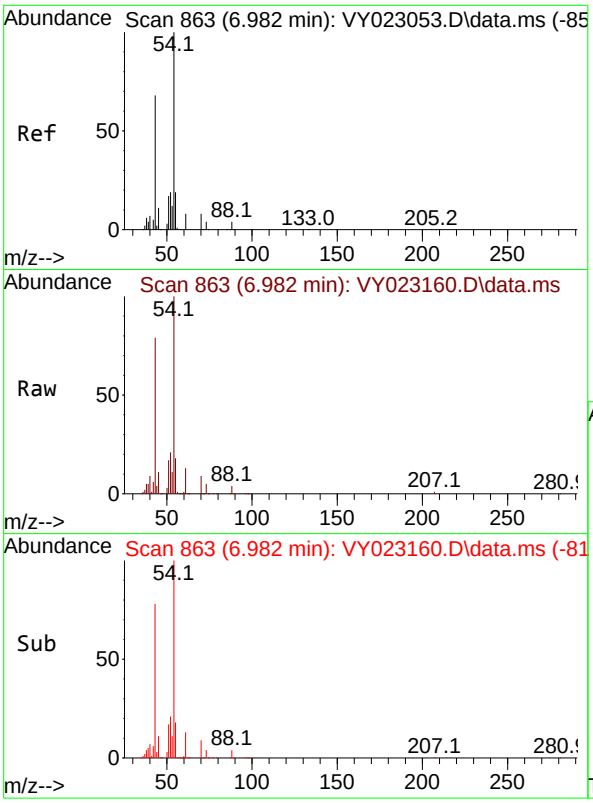



#36
1,1-Dichloropropene
Concen: 47.746 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 75 Resp: 308640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 37.0 | 18.1 | 54.4 |
| 77 | 31.4 | 24.6 | 37.0 |






#37
Ethyl Acetate
Concen: 44.444 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 43 Resp: 12068

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.9 | 11.9 | 17.9 |
| 70 | 12.3 | 8.8 | 13.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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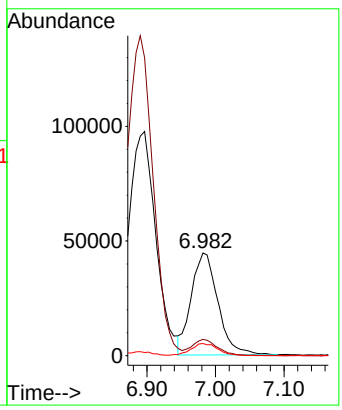
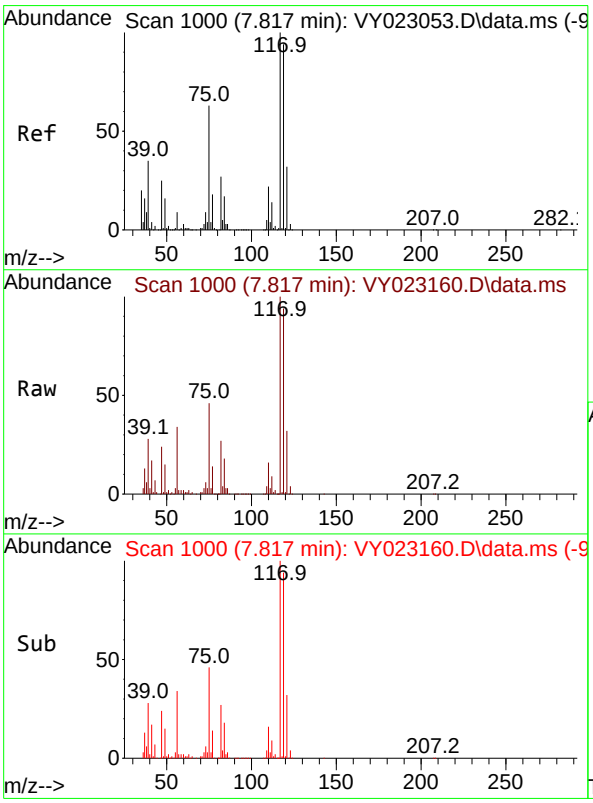
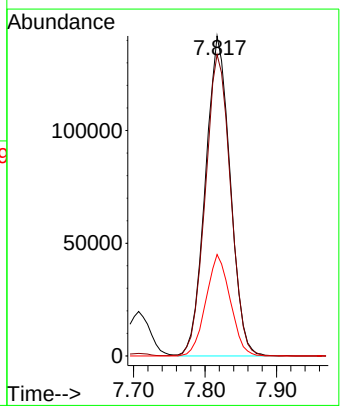


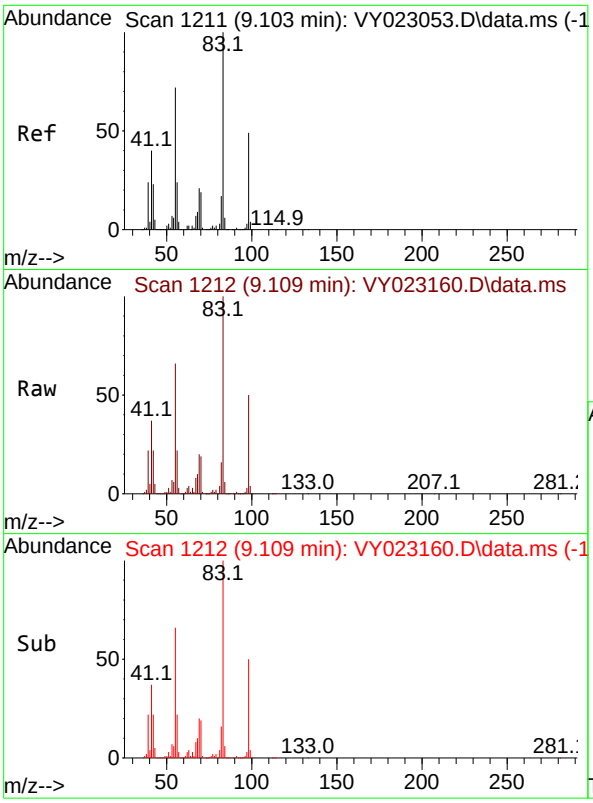




#38
Carbon Tetrachloride
Concen: 48.612 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:117 Resp: 341297

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.1 | 75.6 | 113.4 |
| 121 | 31.7 | 25.8 | 38.8 |






#39
Methylcyclohexane
Concen: 45.580 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

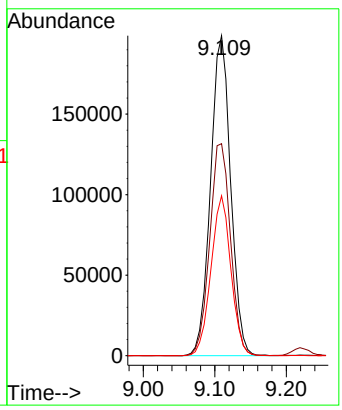
Tgt Ion: 83 Resp: 38799

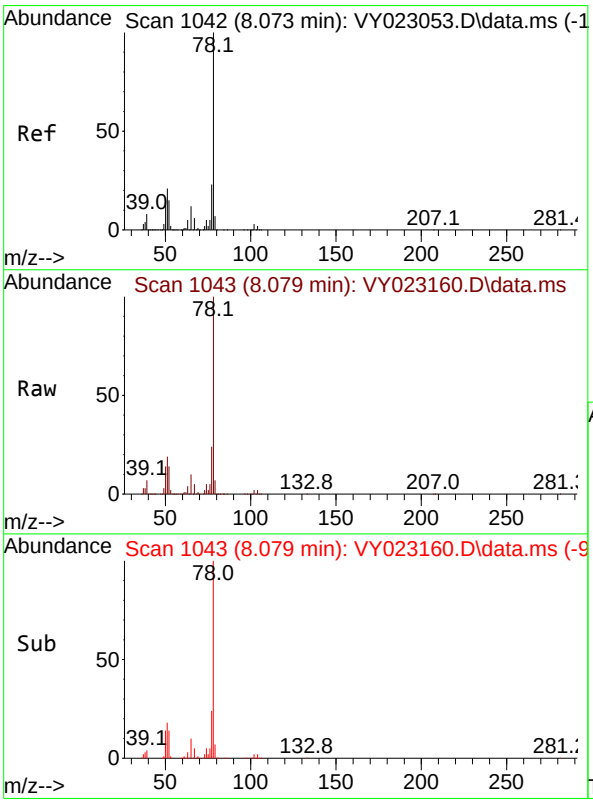
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 66.2 | 57.6 | 86.4 |
| 98 | 49.9 | 39.2 | 58.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

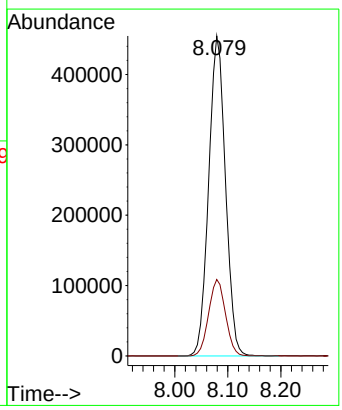


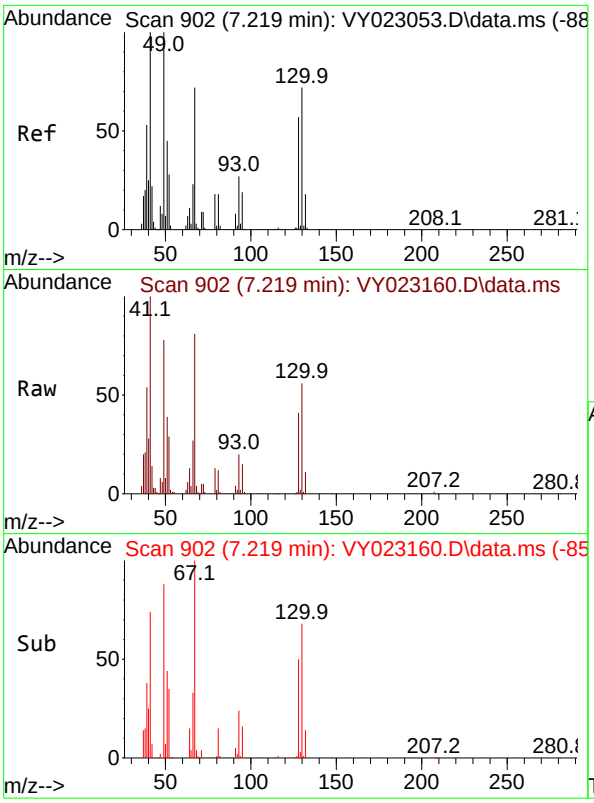




#40
Benzene
Concen: 50.170 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 78 Resp: 999546

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.9 | 18.6 | 28.0 |

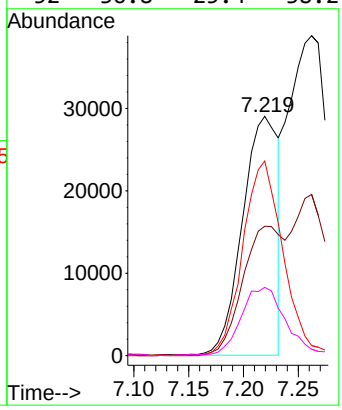





#41
Methacrylonitrile
Concen: 41.877 ug/l
RT: 7.219 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 41 Resp: 6562

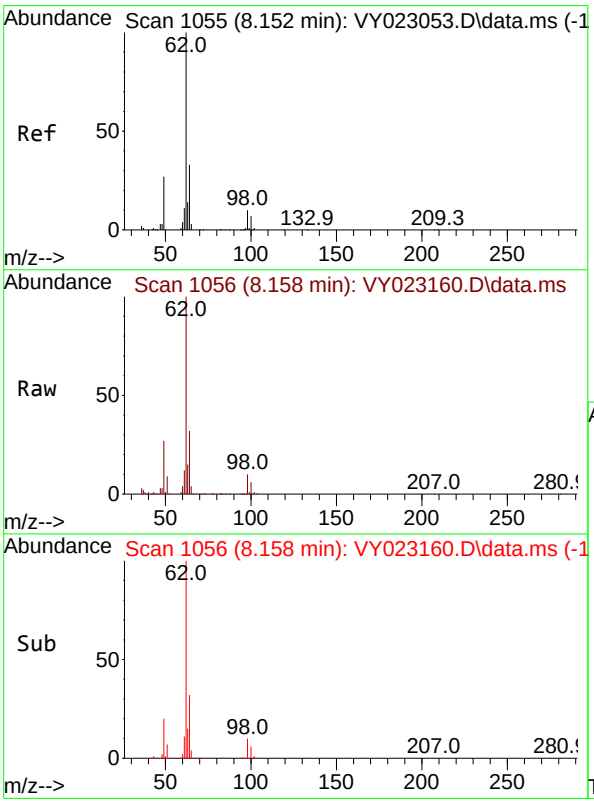
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 62.3 | 43.4 | 65.2 |
| 67 | 92.6 | 63.6 | 95.4 |
| 52 | 36.8 | 25.4 | 38.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

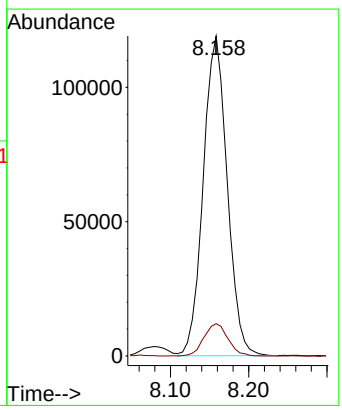
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

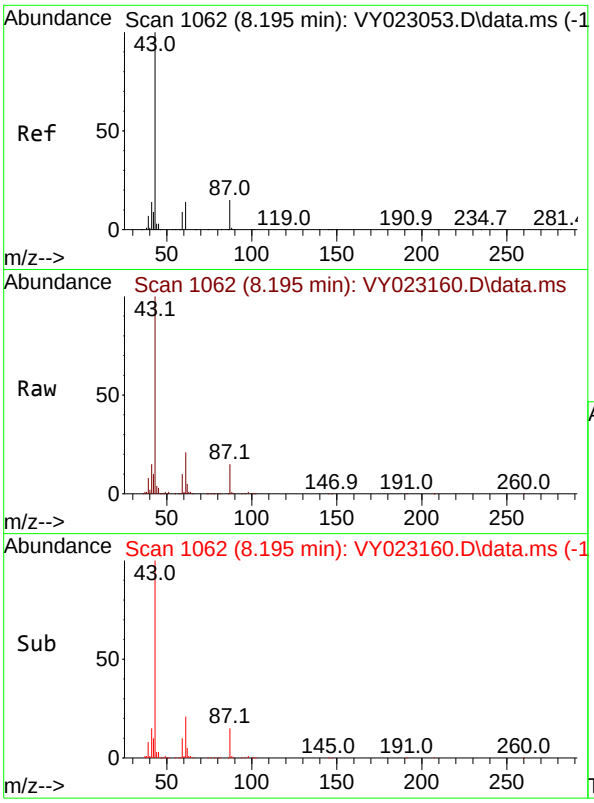



#42
1,2-Dichloroethane
Concen: 48.835 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 62 Resp: 253049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.1 | 0.0 | 20.6 |

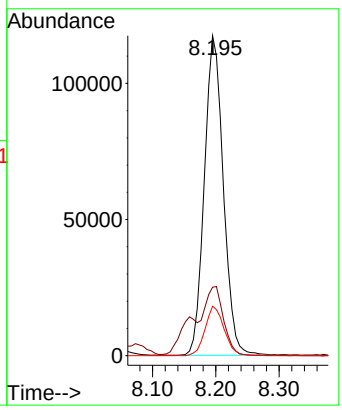





#43
Isopropyl Acetate
Concen: 44.694 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 43 Resp: 24529

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 22.2 | 16.4 | 24.6 |
| 87 | 15.5 | 11.8 | 17.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 08/20/2025
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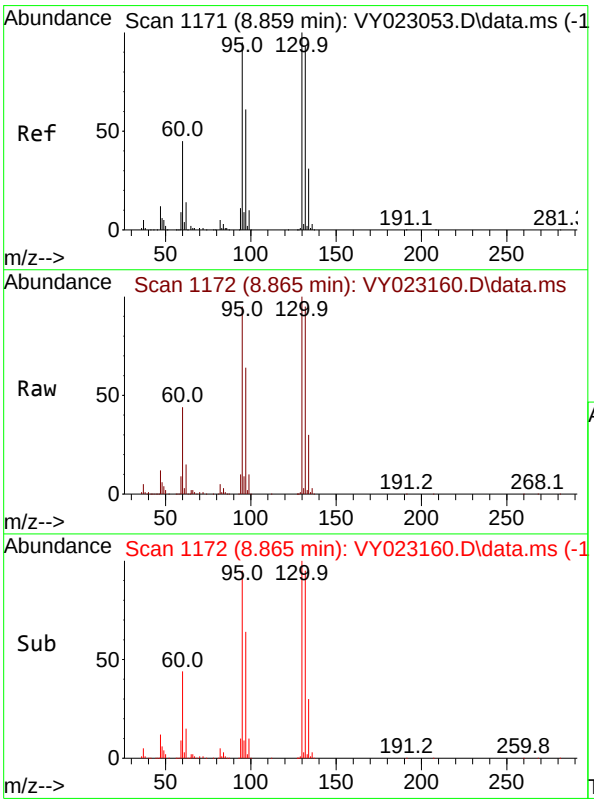
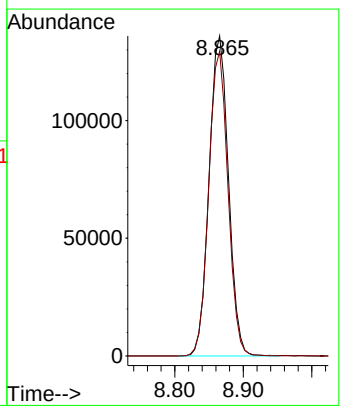
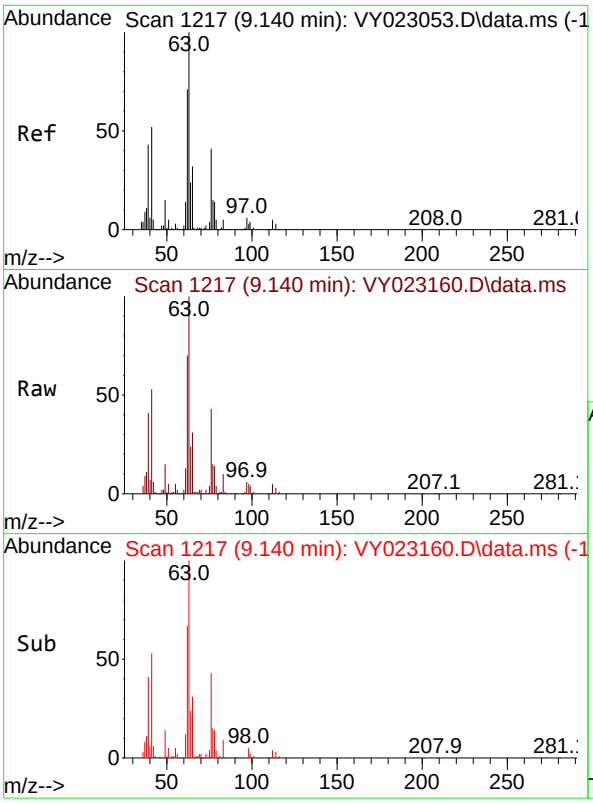



#44
Trichloroethene
Concen: 51.782 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:130 Resp: 266609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 95.2 | 0.0 | 190.2 |






#45
1,2-Dichloropropane
Concen: 49.829 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

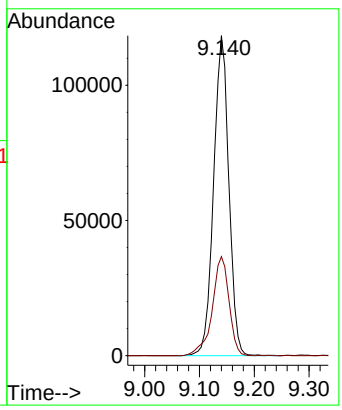
Tgt Ion: 63 Resp: 22842

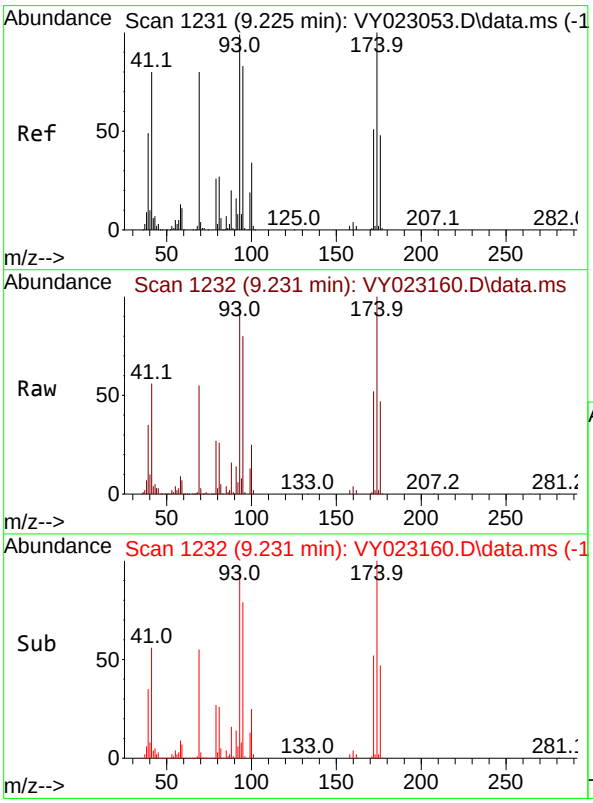
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.0 | 25.3 | 37.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

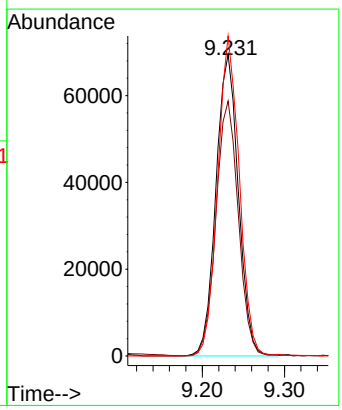


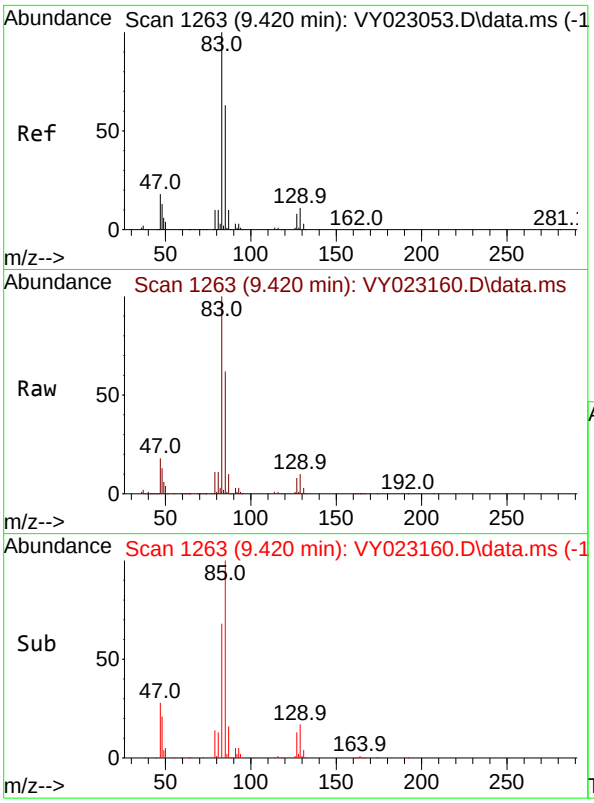




#46
Dibromomethane
Concen: 49.971 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 93 Resp: 131481

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 84.7 | 66.5 | 99.7 |
| 174 | 102.7 | 81.8 | 122.8 |

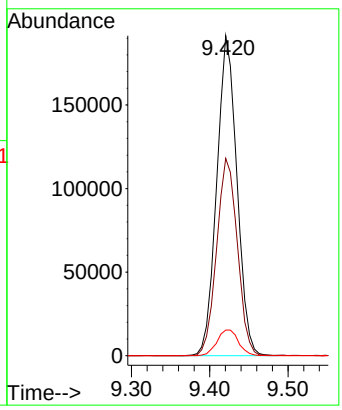





#47
Bromodichloromethane
Concen: 50.703 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 83 Resp: 34327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 61.6 | 50.2 | 75.4 |
| 127 | 8.0 | 6.6 | 10.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 08/20/2025
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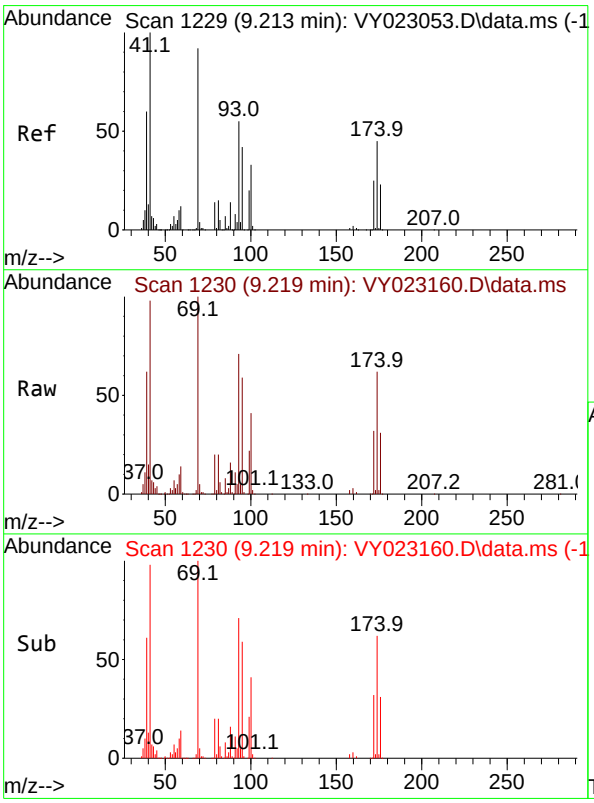
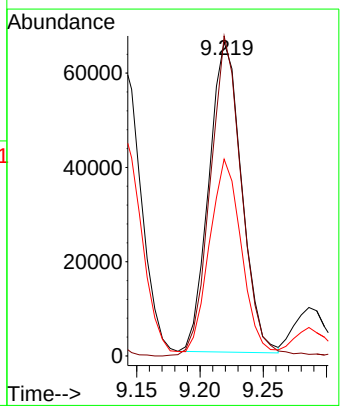
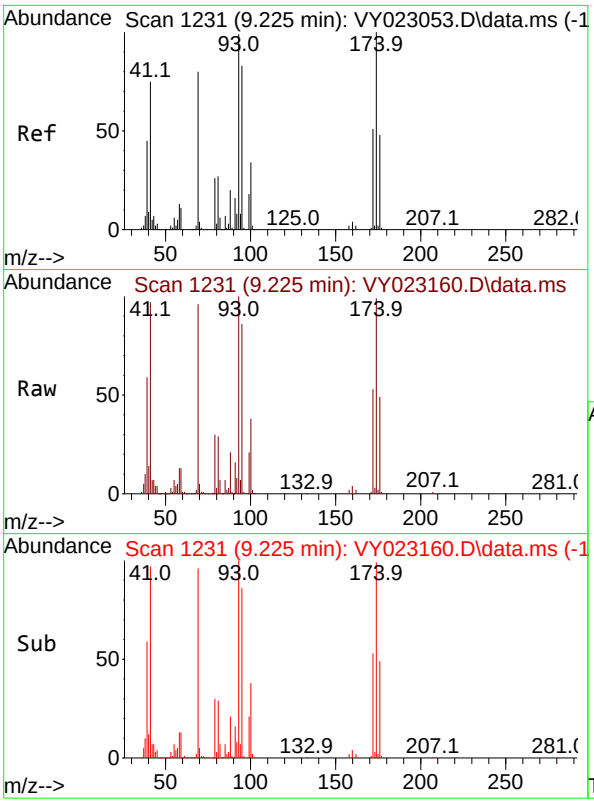



#48
Methyl methacrylate
Concen: 45.021 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 41 Resp: 118237

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 99.0 | 73.2 | 109.8 |
| 39 | 59.8 | 47.0 | 70.4 |






#49
1,4-Dioxane
Concen: 946.444 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 88 Resp: 2919

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 29.7 | 24.3 | 36.5 |
| 58 | 57.5 | 55.4 | 83.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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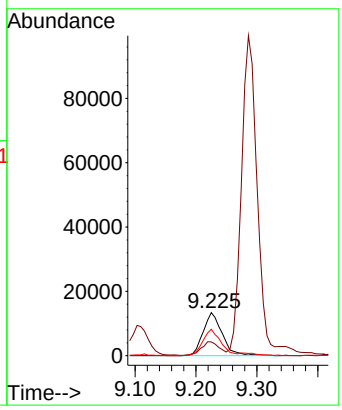
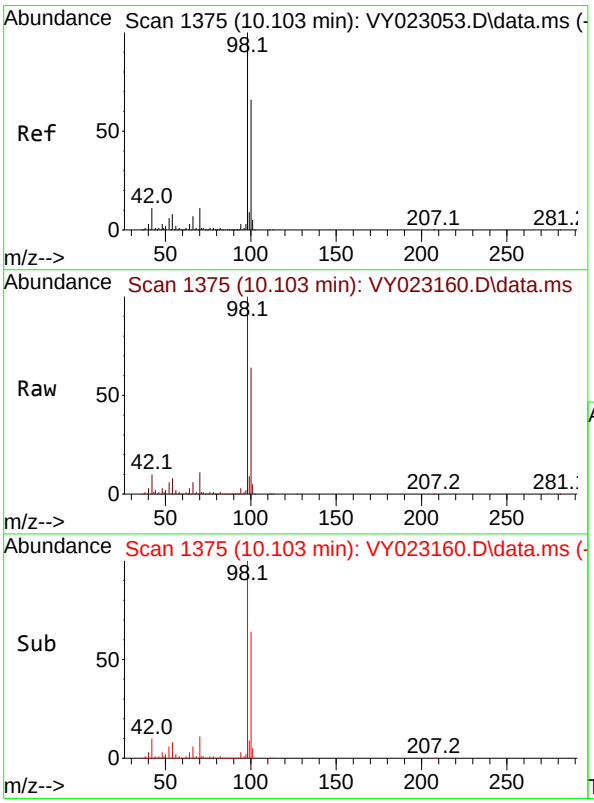
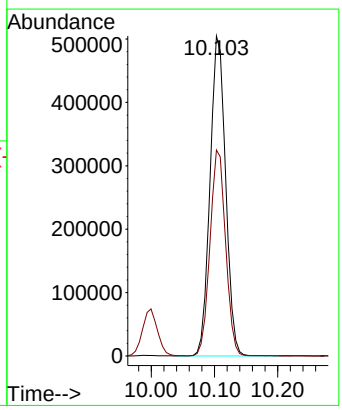


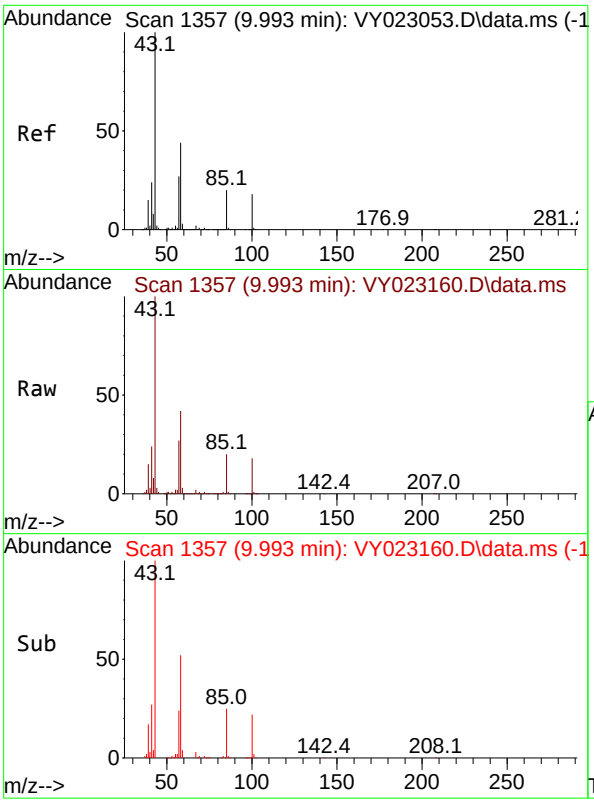




#50
Toluene-d8
Concen: 50.853 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 98 Resp: 864097

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.3 | 52.3 | 78.5 |

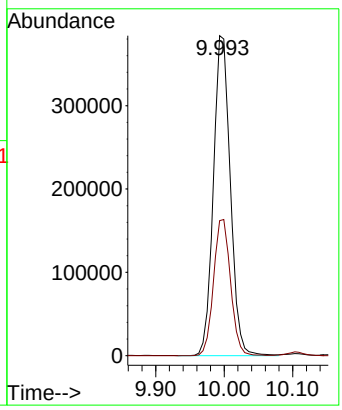





#51
4-Methyl-2-Pentanone
Concen: 231.971 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 43 Resp: 65671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 42.9 | 33.5 | 50.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 08/20/2025
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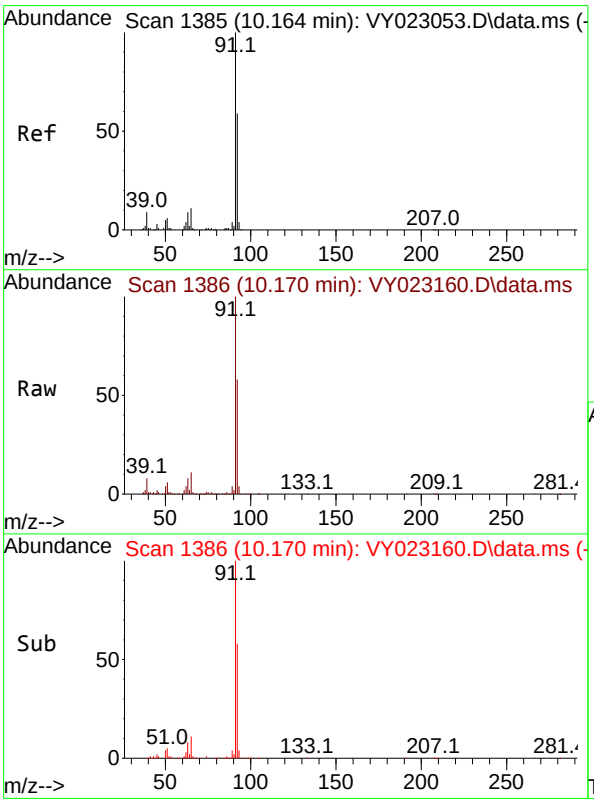
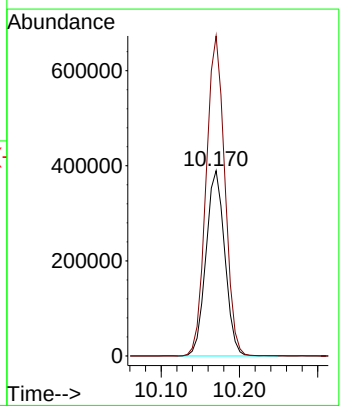
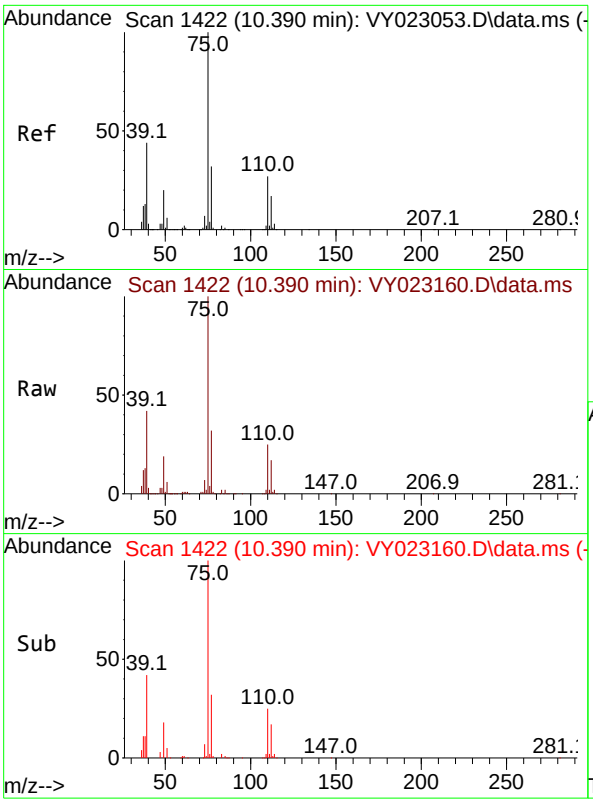



#52
Toluene
Concen: 51.179 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 92 Resp: 647611

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 171.9 | 136.4 | 204.6 |






#53
t-1,3-Dichloropropene
Concen: 48.297 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 75 Resp: 29610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.0 | 25.7 | 38.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

Reviewed By :John Carlone 08/20/2025
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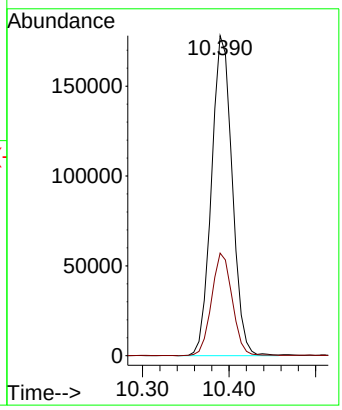
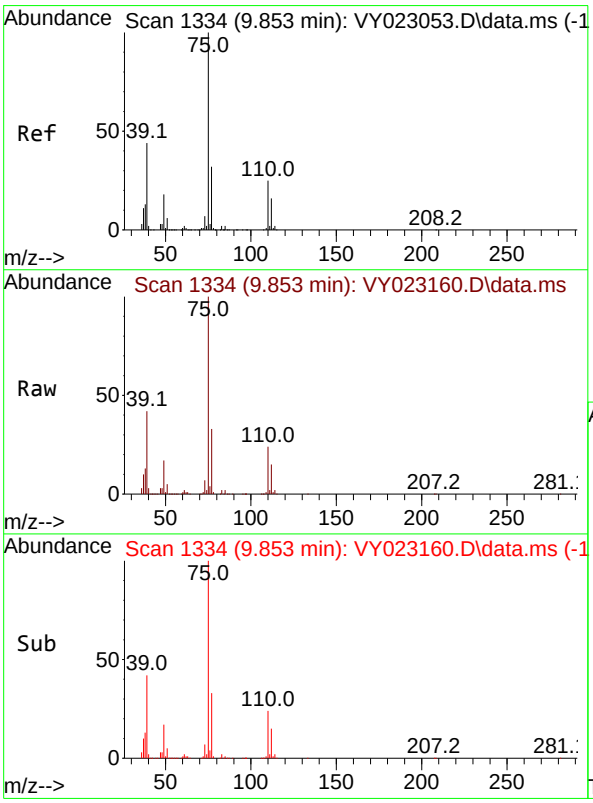
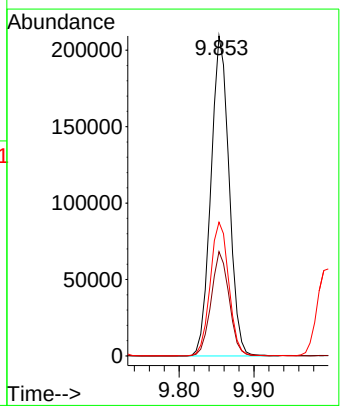


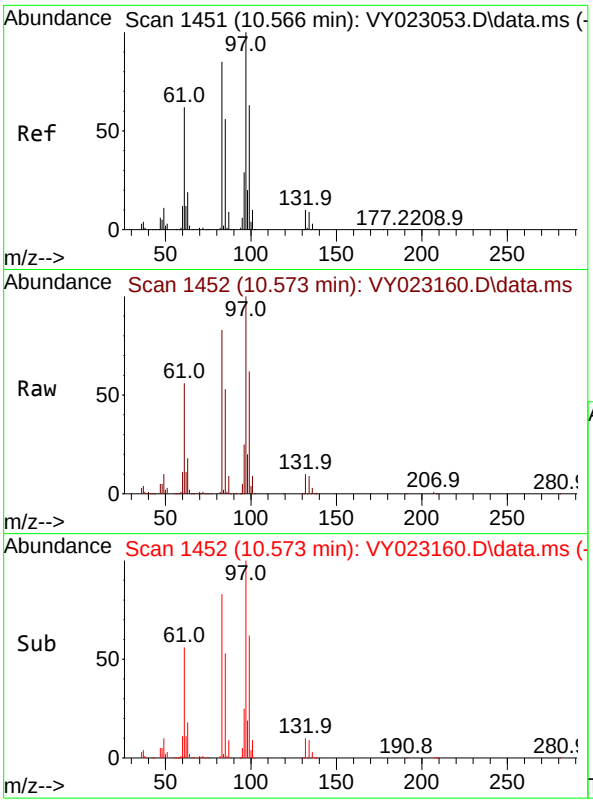




#54
cis-1,3-Dichloropropene
Concen: 48.751 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 75 Resp: 353426

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.6 | 25.4 | 38.0 |
| 39 | 41.7 | 35.6 | 53.4 |

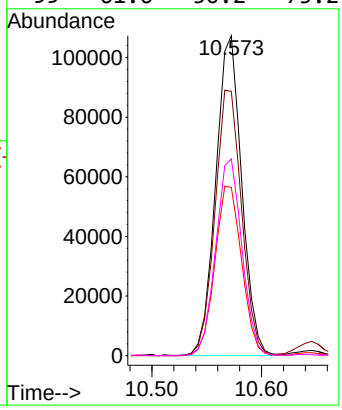





#55
1,1,2-Trichloroethane
Concen: 50.180 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 97 Resp: 17667

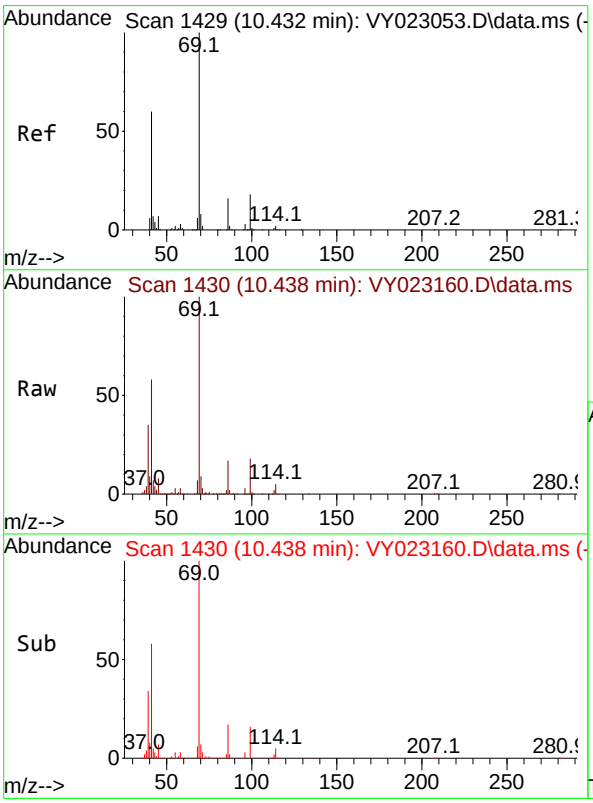
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 82.7 | 67.7 | 101.5 |
| 85 | 52.7 | 44.5 | 66.7 |
| 99 | 61.6 | 50.2 | 75.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

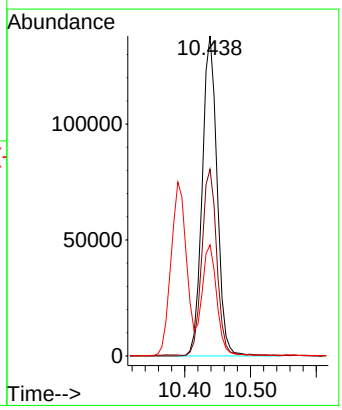
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

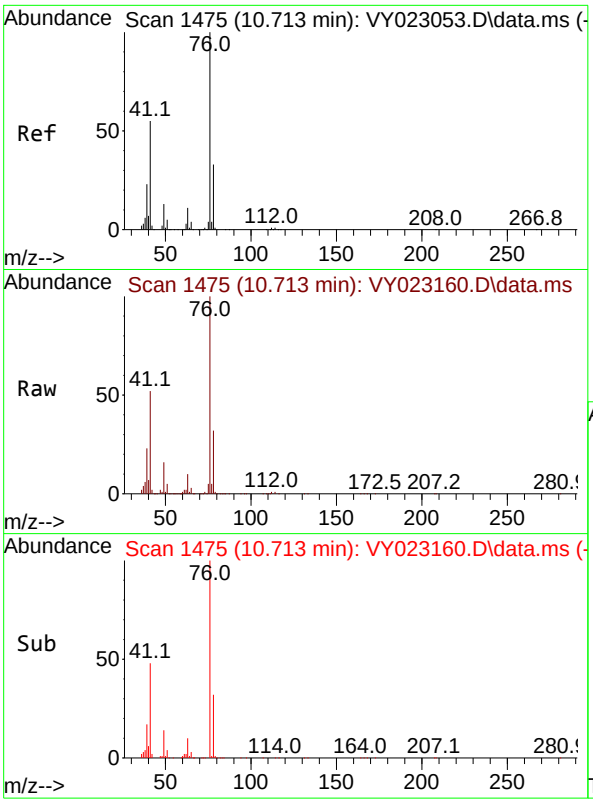



#56
Ethyl methacrylate
Concen: 48.375 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 69 Resp: 217938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 58.3 | 48.6 | 72.8 |
| 39 | 34.0 | 27.0 | 40.4 |






#57
1,3-Dichloropropane
Concen: 48.952 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

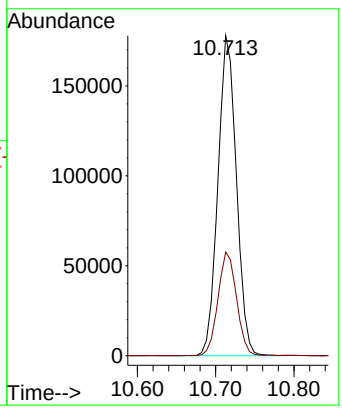
Tgt Ion: 76 Resp: 29229

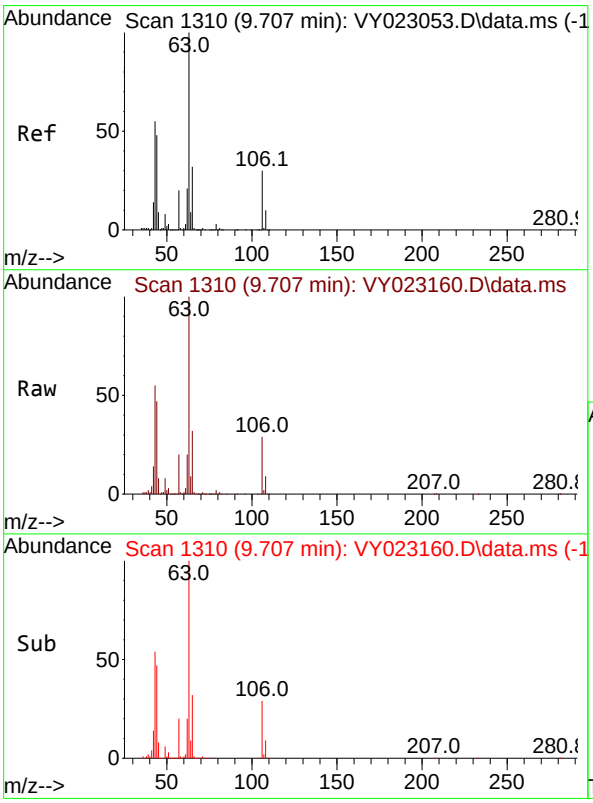
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.6 | 26.0 | 39.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

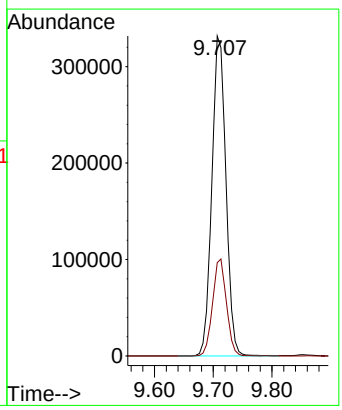


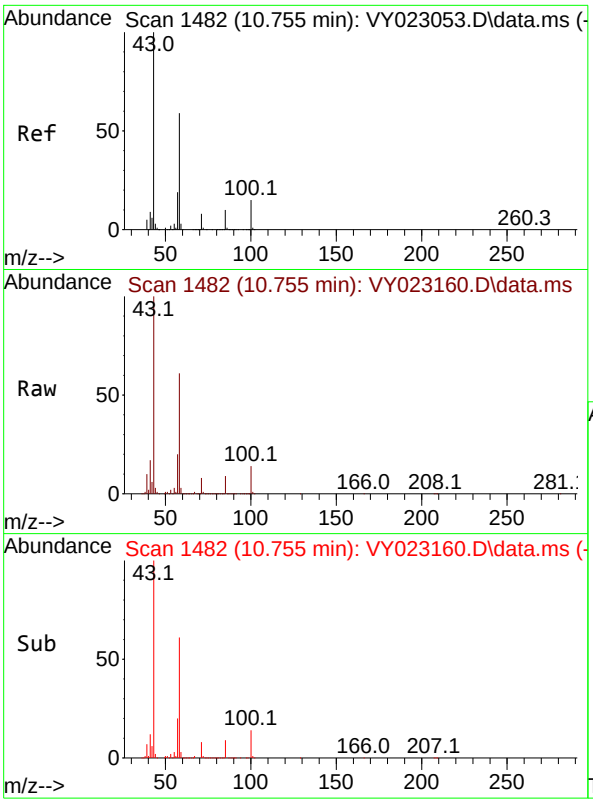




#58
2-Chloroethyl Vinyl ether
Concen: 259.330 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 63 Resp: 551100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 29.9 | 23.2 | 34.8 |






#59
2-Hexanone
Concen: 225.681 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 43 Resp: 435049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 59.3 | 29.5 | 88.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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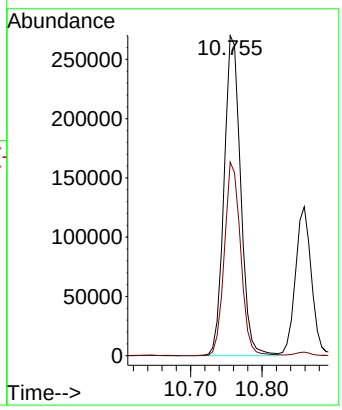
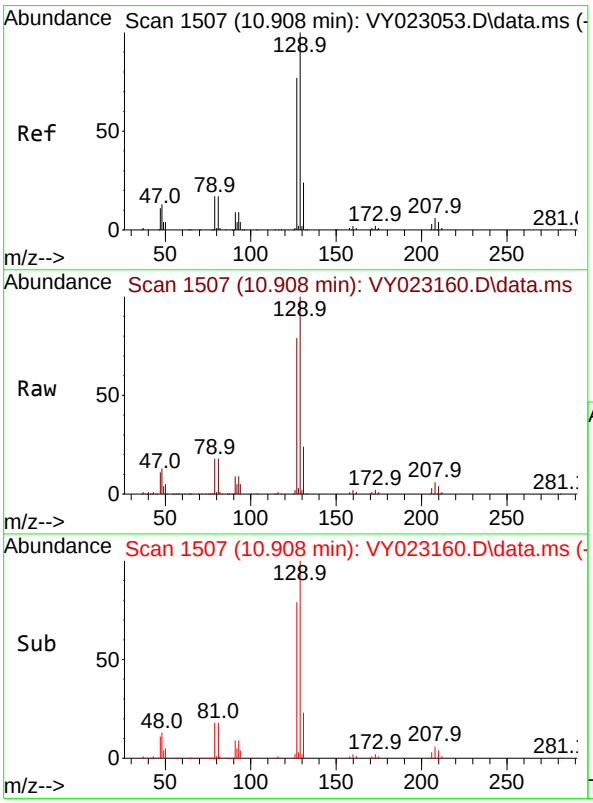
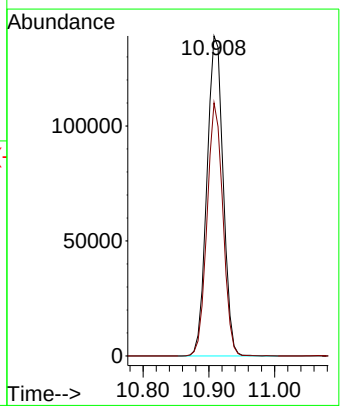


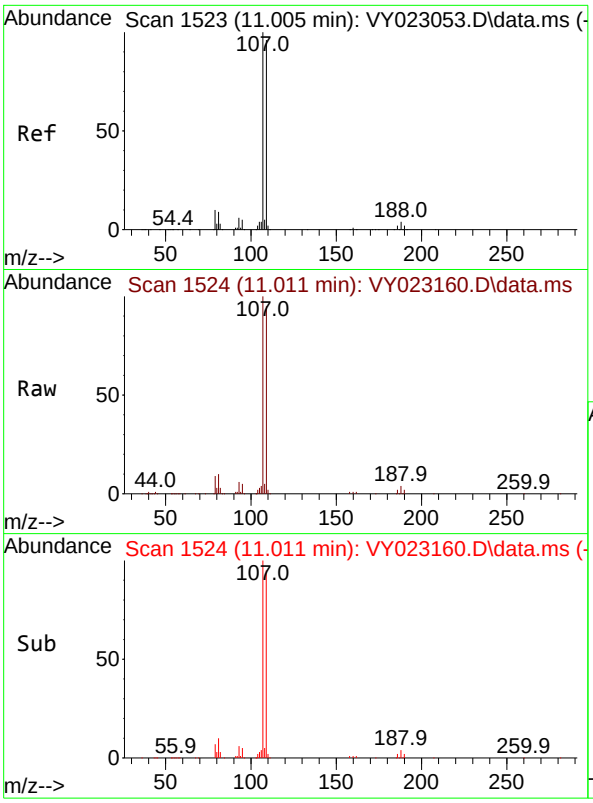




#60
Dibromochloromethane
Concen: 51.365 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:129 Resp: 238623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.3 | 38.5 | 115.5 |

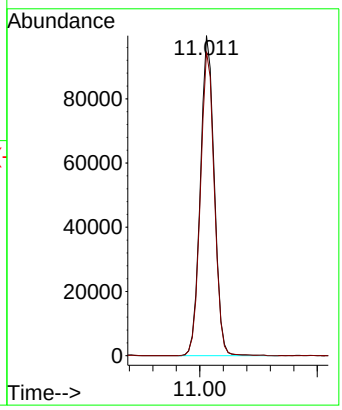





#61
1,2-Dibromoethane
Concen: 49.588 ug/l
RT: 11.011 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:107 Resp: 16409

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 95.0 | 75.6 | 113.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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Reviewed By :John Carlone 08/20/2025
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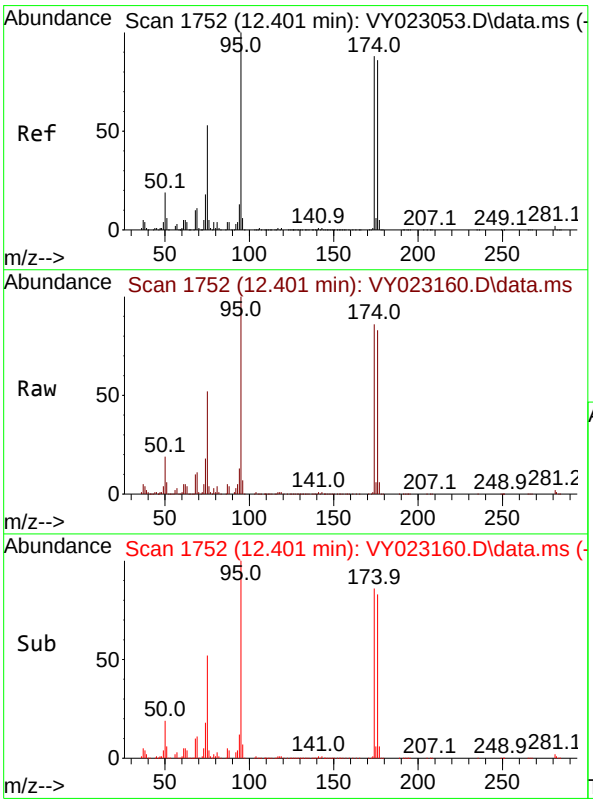
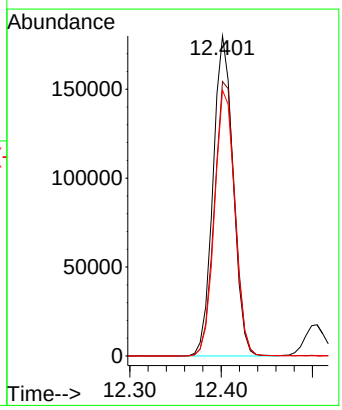
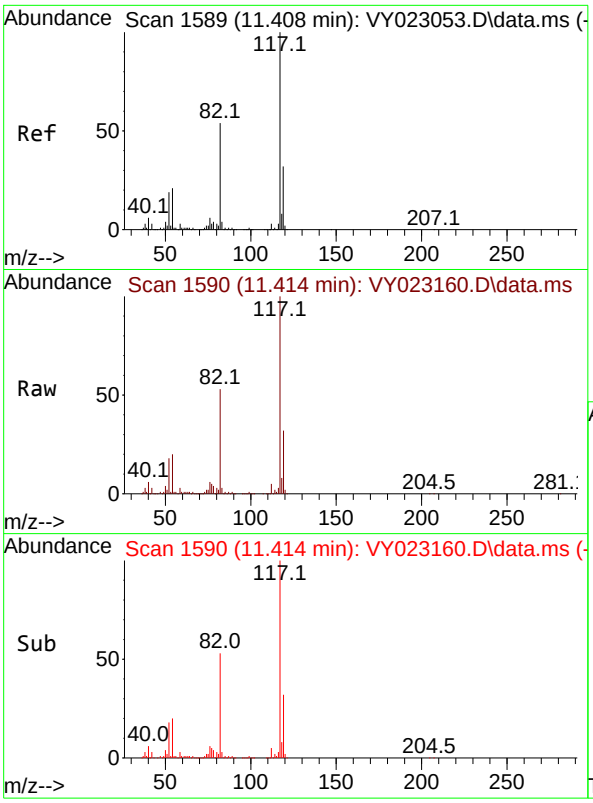



#62
4-Bromofluorobenzene
Concen: 50.308 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 95 Resp: 274917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 87.9 | 0.0 | 171.6 |
| 176 | 84.1 | 0.0 | 167.6 |

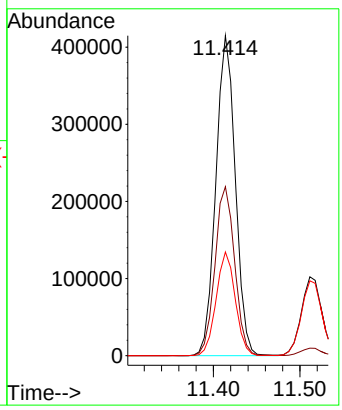





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:117 Resp: 64723

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 52.8 | 43.4 | 65.0 |
| 119 | 32.4 | 25.6 | 38.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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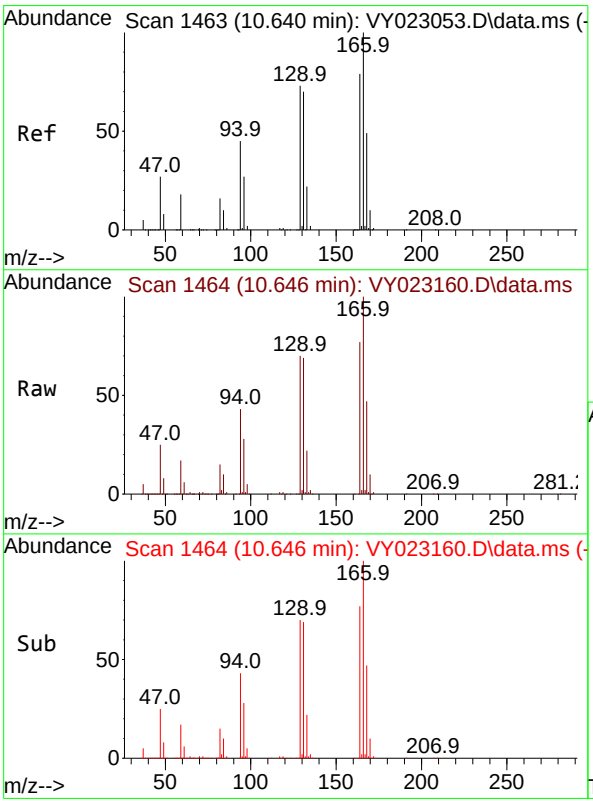
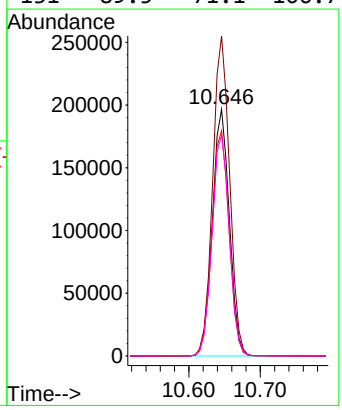
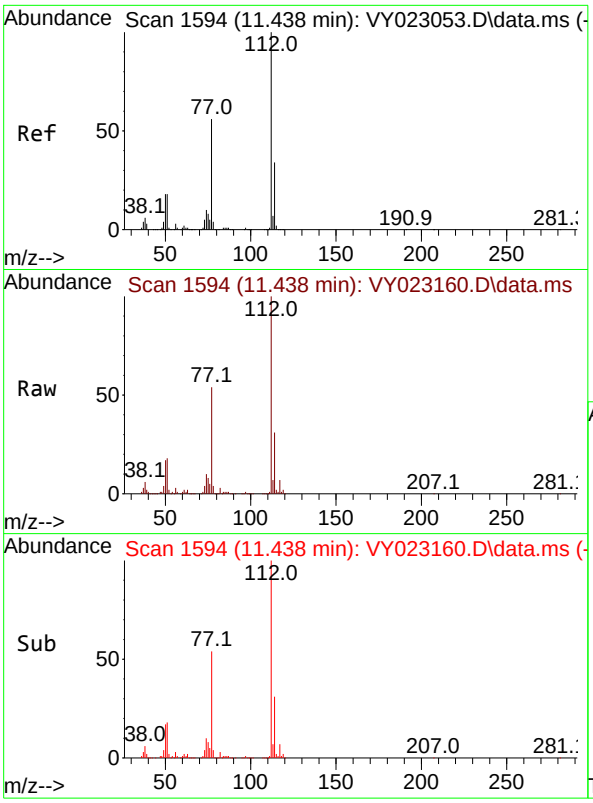



#64
Tetrachloroethene
Concen: 56.055 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:164 Resp: 323963

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 129.7 | 101.1 | 151.7 |
| 129 | 91.3 | 74.0 | 111.0 |
| 131 | 89.5 | 71.1 | 106.7 |

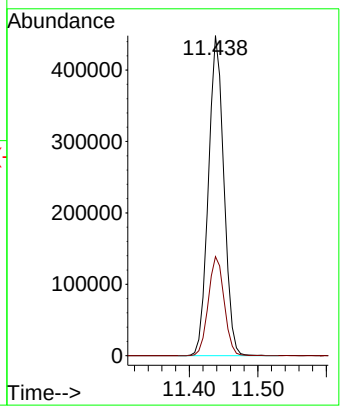





#65
Chlorobenzene
Concen: 50.434 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:112 Resp: 70410

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.0 | 27.0 | 40.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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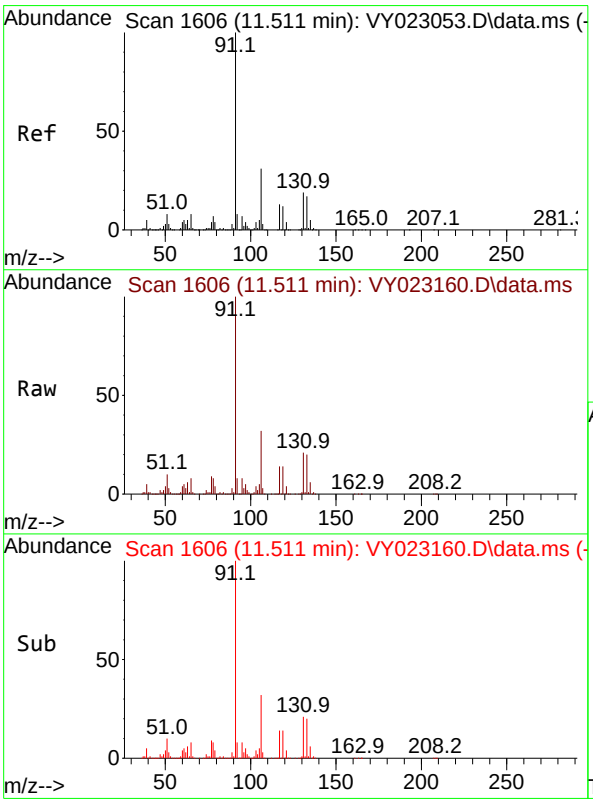
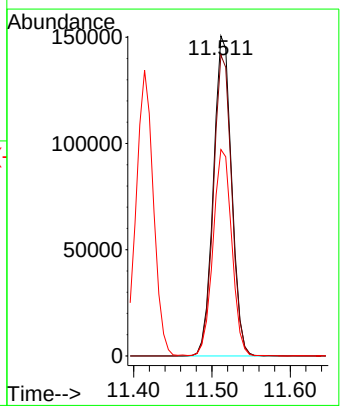
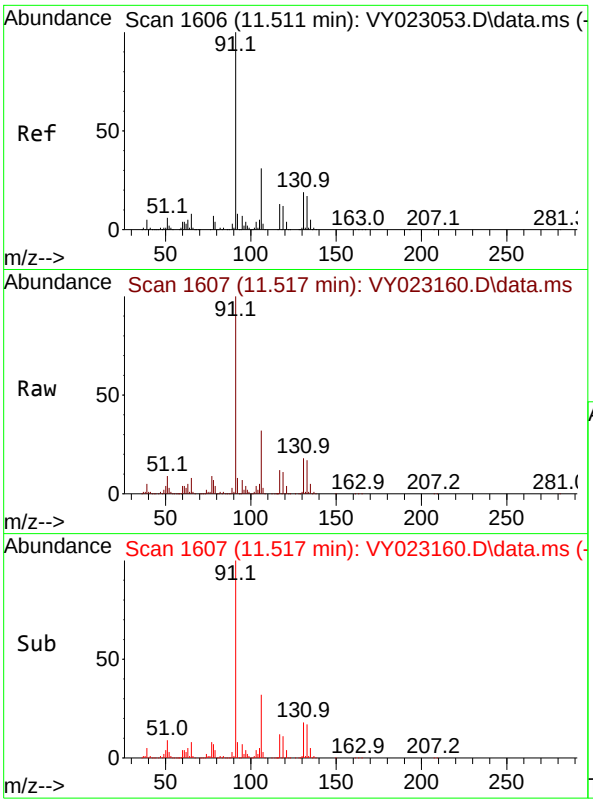



#66
1,1,1,2-Tetrachloroethane
Concen: 51.411 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:131 Resp: 243596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.2 | 46.9 | 140.6 |
| 119 | 66.4 | 33.2 | 99.6 |

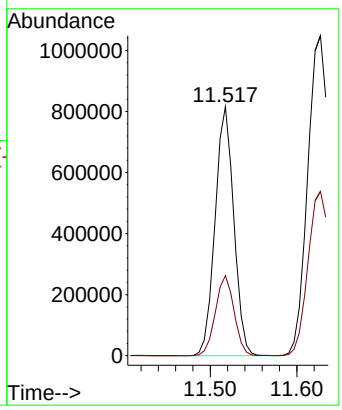





#67
Ethyl Benzene
Concen: 50.888 ug/l
RT: 11.517 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 91 Resp: 122260

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 32.1 | 25.0 | 37.4 |




**Instrument :**
MSVOA_Y
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VSTDCCC050EC

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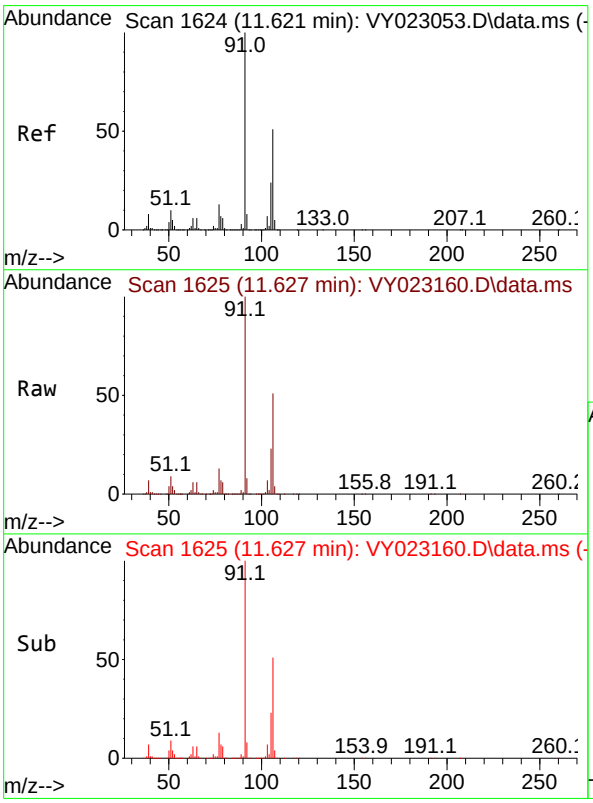
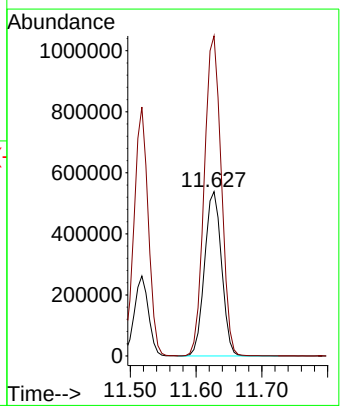
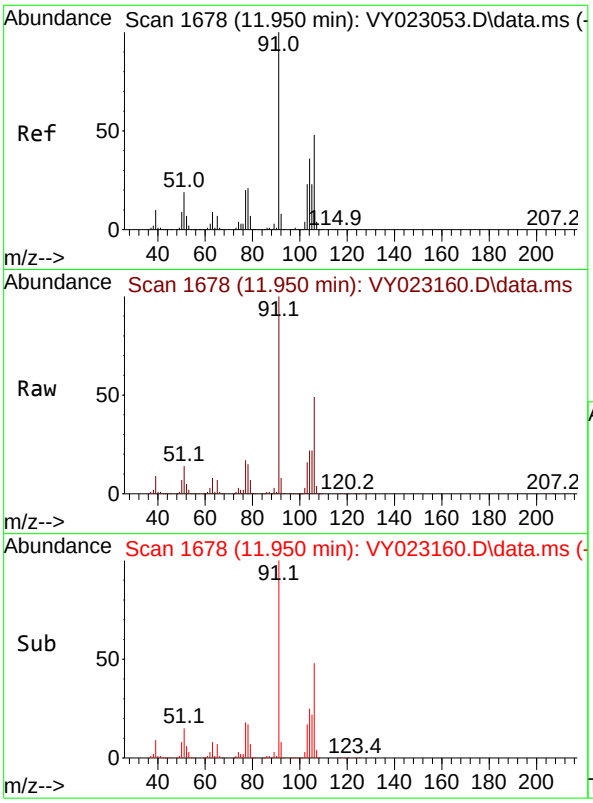



#68
m/p-Xylenes
Concen: 103.051 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:106 Resp: 966978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 194.8 | 158.6 | 238.0 |






#69
o-Xylene
Concen: 51.799 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:106 Resp: 45523

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 204.7 | 103.2 | 309.4 |

**Instrument :**
MSVOA_Y
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VSTDCCC050EC

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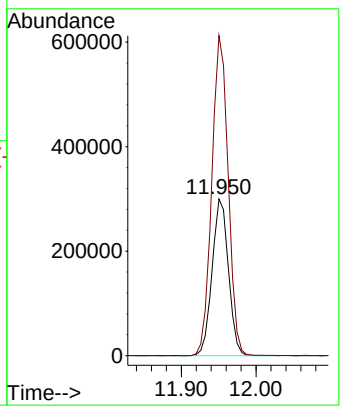
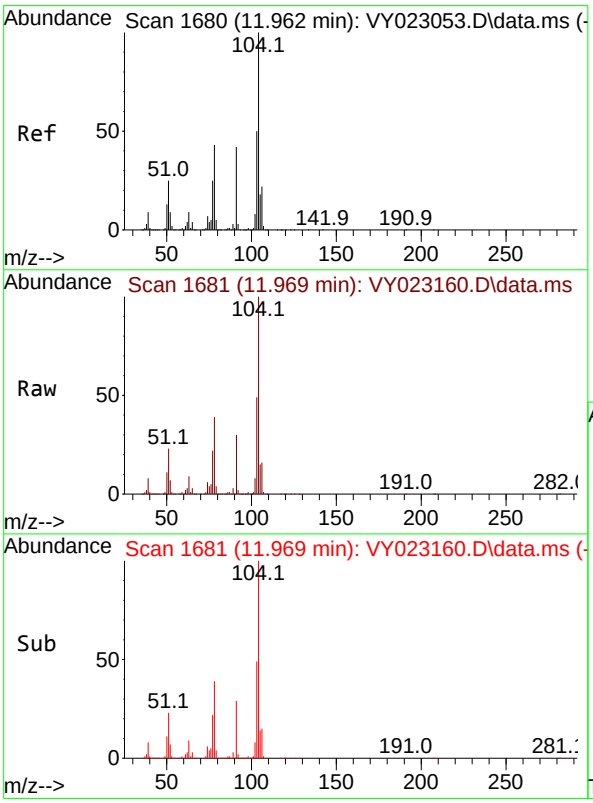
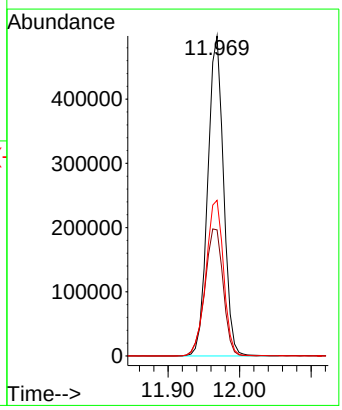


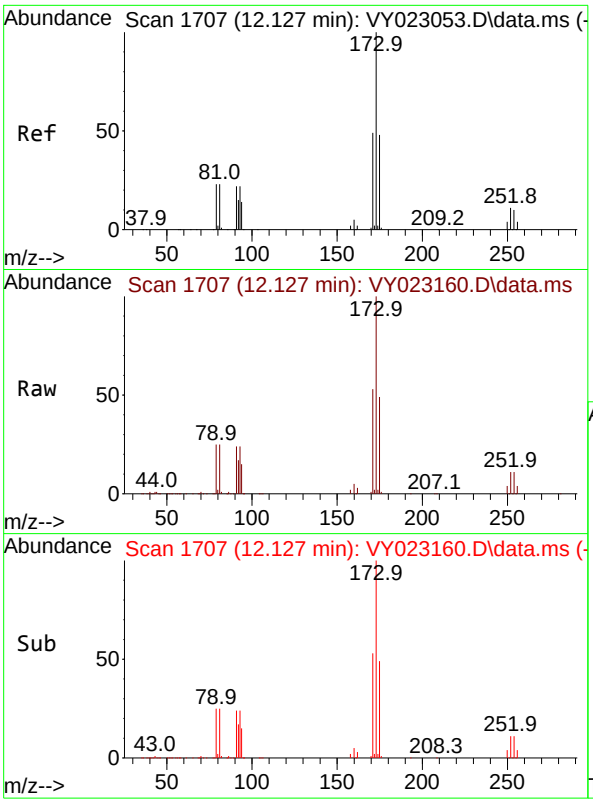




#70
Styrene
Concen: 53.132 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:104 Resp: 763639

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 46.1 | 38.5 | 57.7 |
| 103 | 54.4 | 43.7 | 65.5 |






#71
Bromoform
Concen: 48.980 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:173 Resp: 13563

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.5 | 23.9 | 71.7 |
| 254 | 0.2 | 0.1 | 0.1 |

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MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

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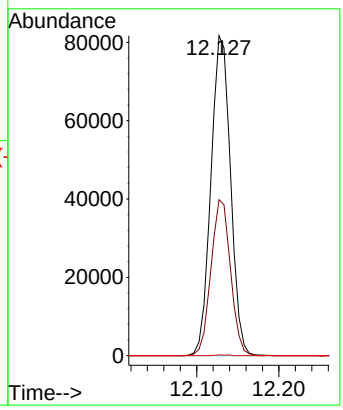
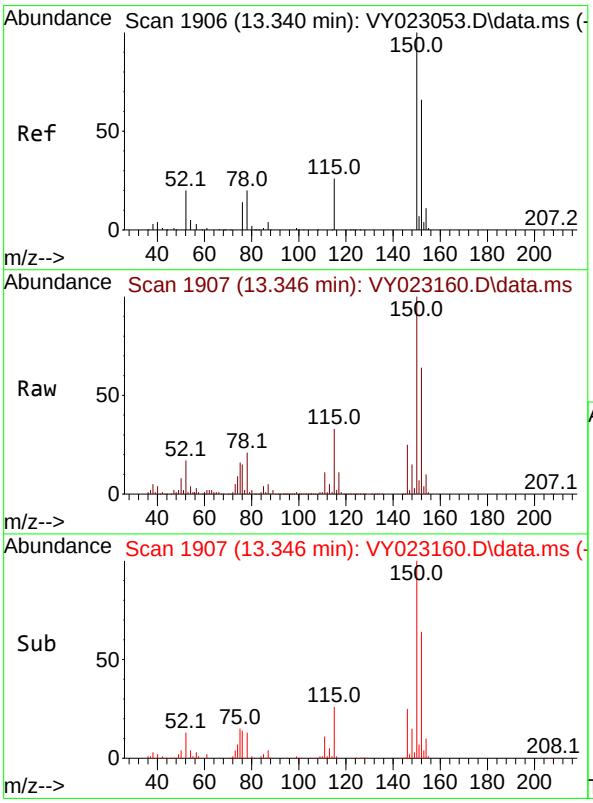
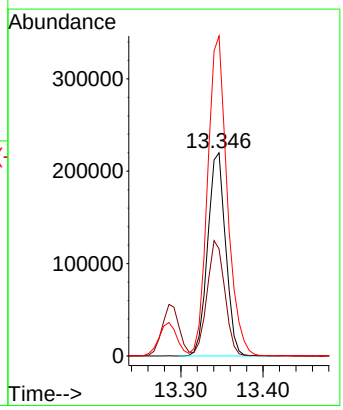


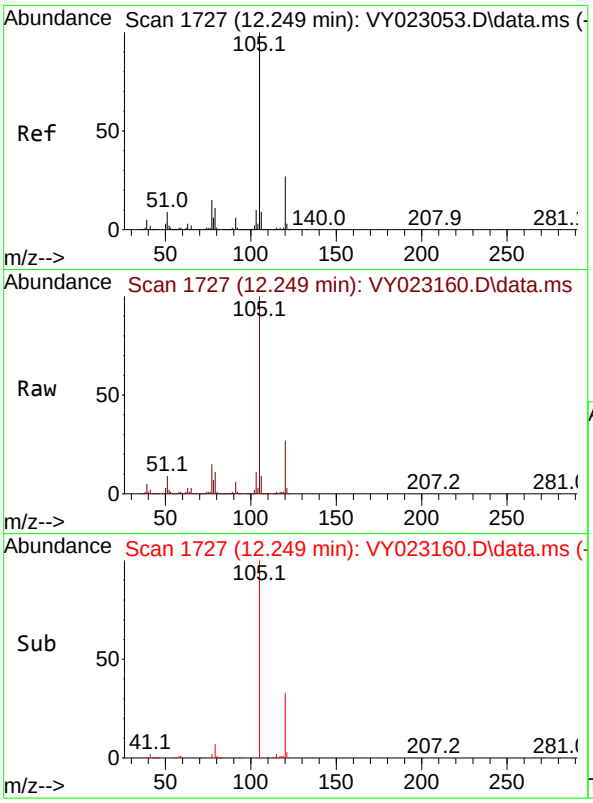




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:152 Resp: 333557

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 55.8 | 28.2 | 84.6 |
| 150 | 171.6 | 0.0 | 348.0 |






#73
Isopropylbenzene
Concen: 49.330 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:105 Resp: 116133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.1 | 13.4 | 40.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

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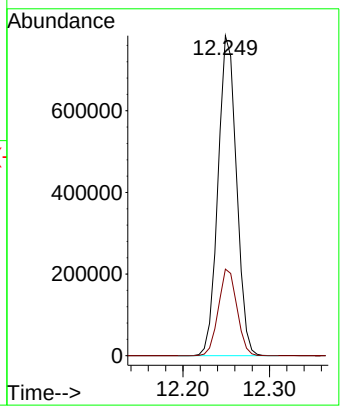
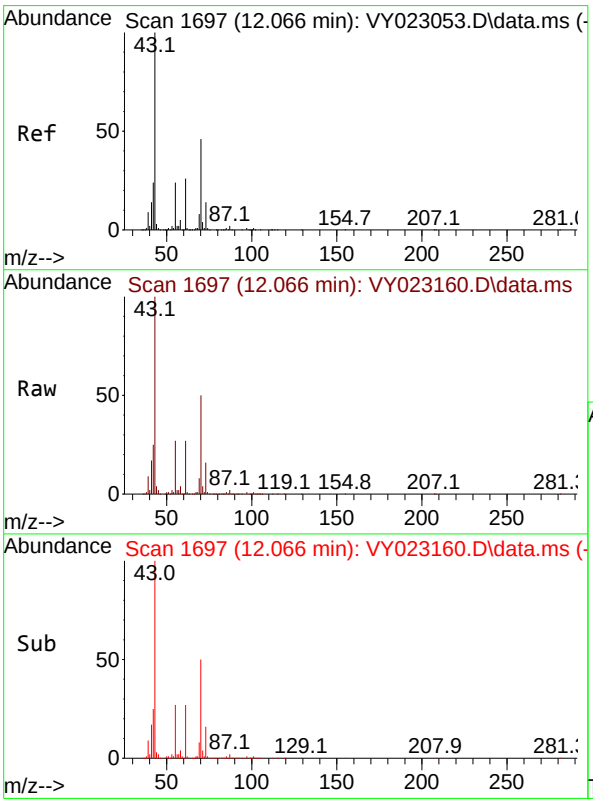
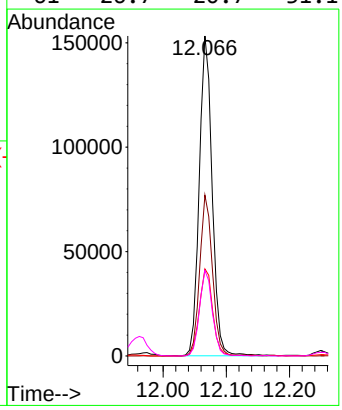


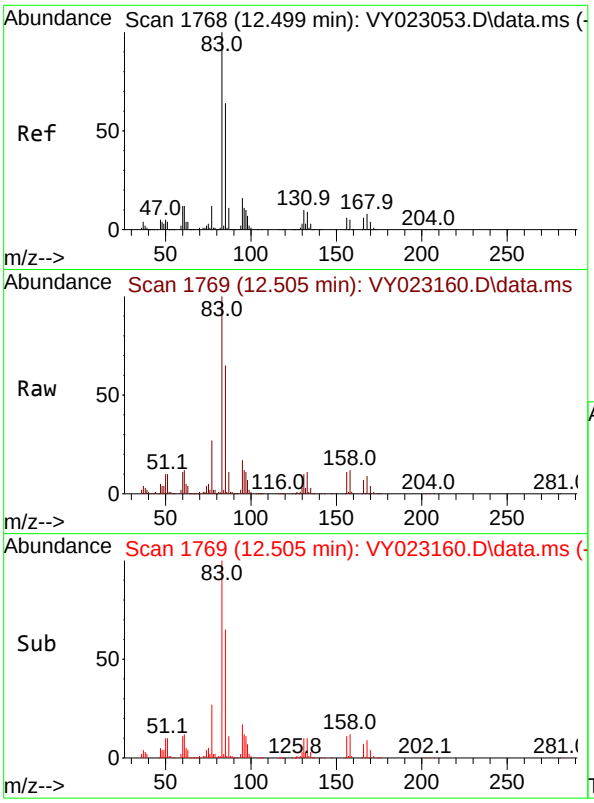




#74
N-amyl acetate
Concen: 43.613 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 43 Resp: 217737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 49.5 | 37.5 | 56.3 |
| 55 | 28.2 | 20.7 | 31.1 |
| 61 | 26.7 | 20.7 | 31.1 |

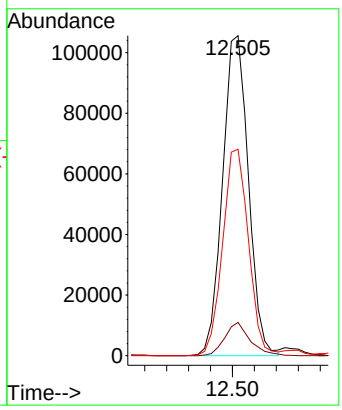





#75
1,1,2,2-Tetrachloroethane
Concen: 43.025 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 83 Resp: 17295

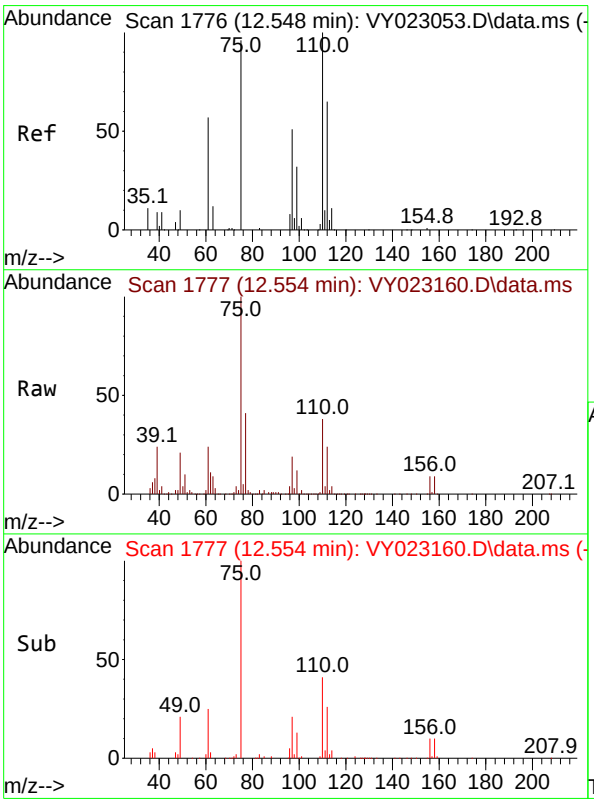
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.2 | 5.1 | 15.3 |
| 85 | 64.4 | 31.8 | 95.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

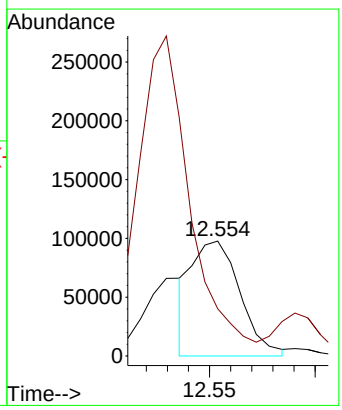
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

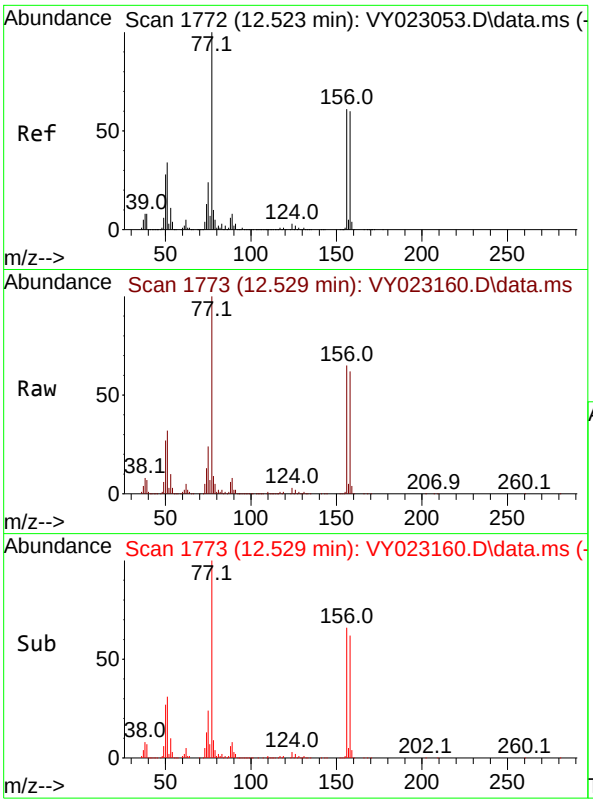



#76
1,2,3-Trichloropropane
Concen: 48.345 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 75 Resp: 155632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |

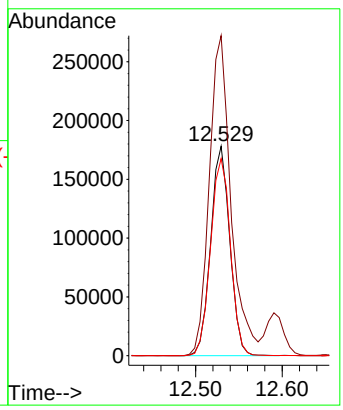





#77
Bromobenzene
Concen: 48.690 ug/l
RT: 12.529 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:156 Resp: 27346

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 172.9 | 88.1 | 264.4 |
| 158 | 97.9 | 48.0 | 144.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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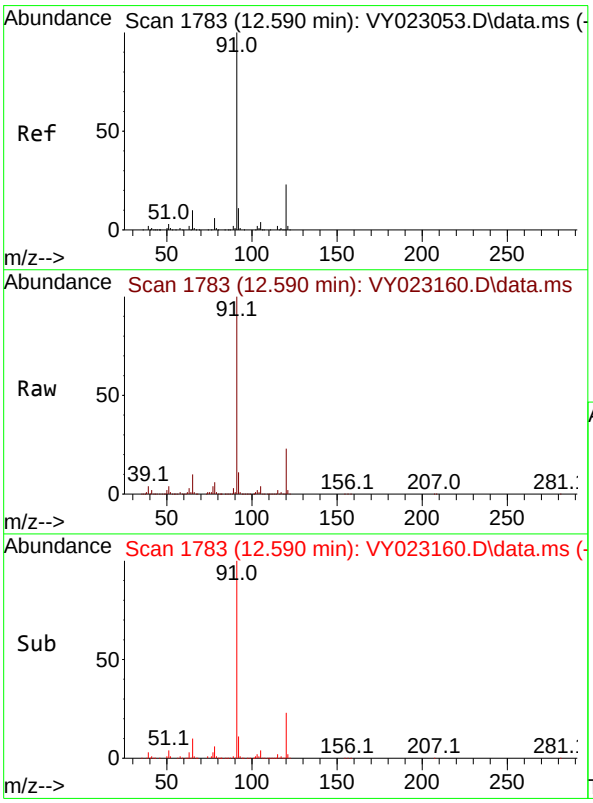
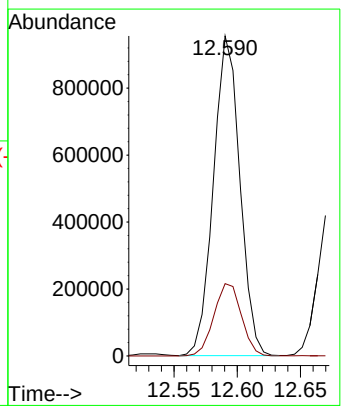
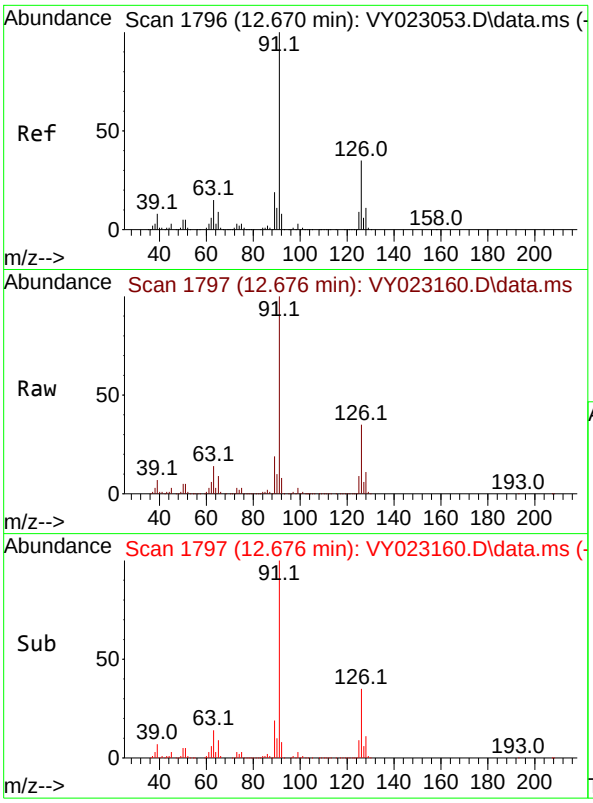



#78
n-propylbenzene
Concen: 49.502 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 91 Resp: 1387452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 23.5 | 11.5 | 34.5 |

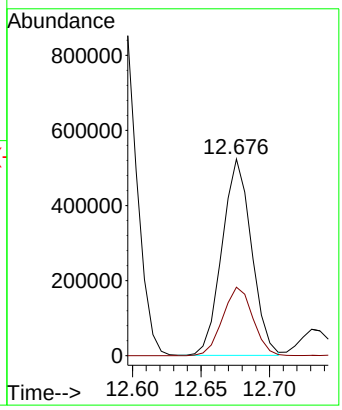





#79
2-Chlorotoluene
Concen: 48.829 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 91 Resp: 78414

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.7 | 17.4 | 52.3 |




**Instrument :**
MSVOA_Y
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VSTDCCC050EC

**Manual Integrations**
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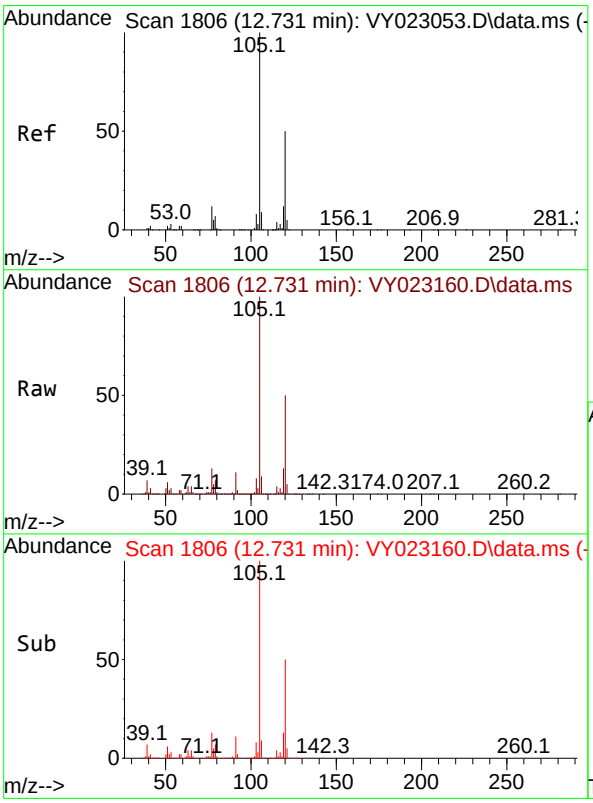
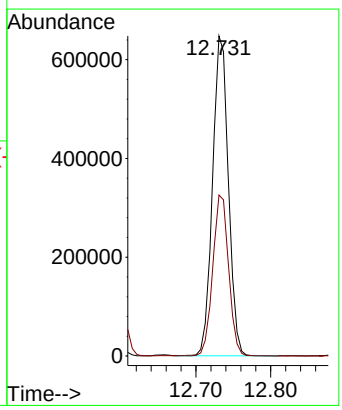
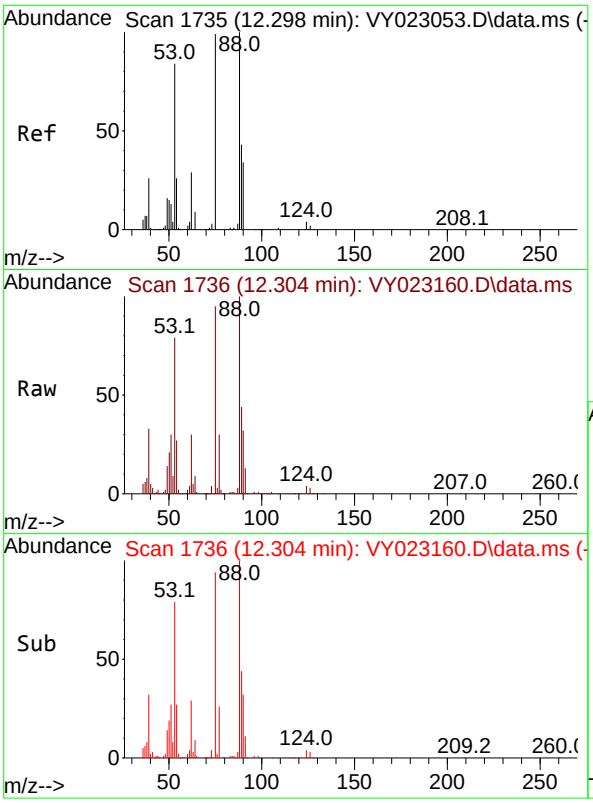



#80
1,3,5-Trimethylbenzene
Concen: 50.180 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:105 Resp: 954748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 50.5 | 24.8 | 74.4 |






#81
trans-1,4-Dichloro-2-butene
Concen: 43.134 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 75 Resp: 5736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 87.5 | 70.8 | 106.2 |
| 89 | 47.4 | 38.1 | 57.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

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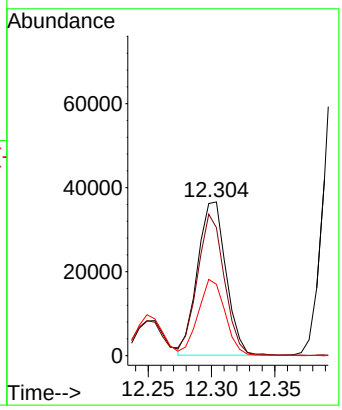
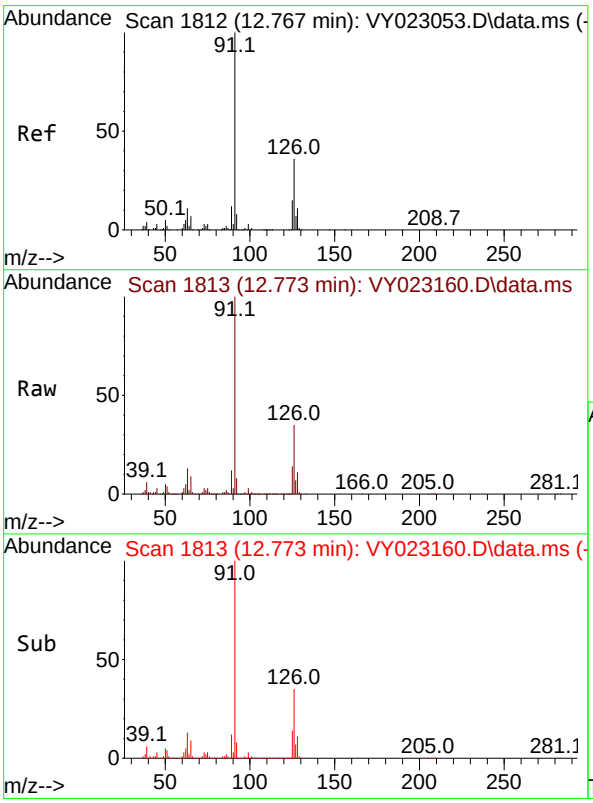
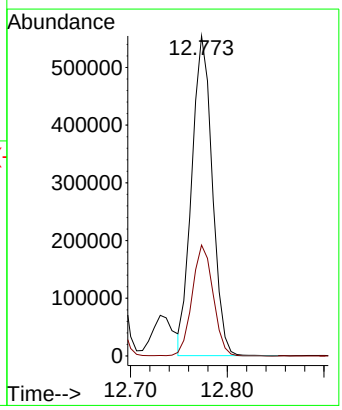


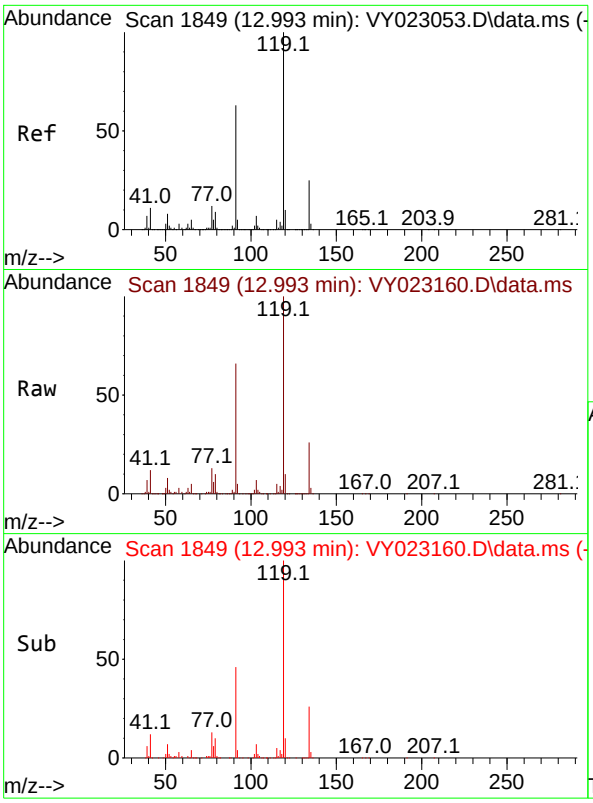




#82
4-Chlorotoluene
Concen: 48.995 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 91 Resp: 816232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.6 | 17.3 | 52.0 |

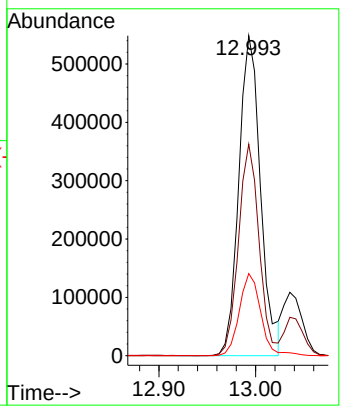





#83
tert-Butylbenzene
Concen: 49.921 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:119 Resp: 85785

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 63.0 | 31.6 | 94.8 |
| 134 | 25.4 | 12.9 | 38.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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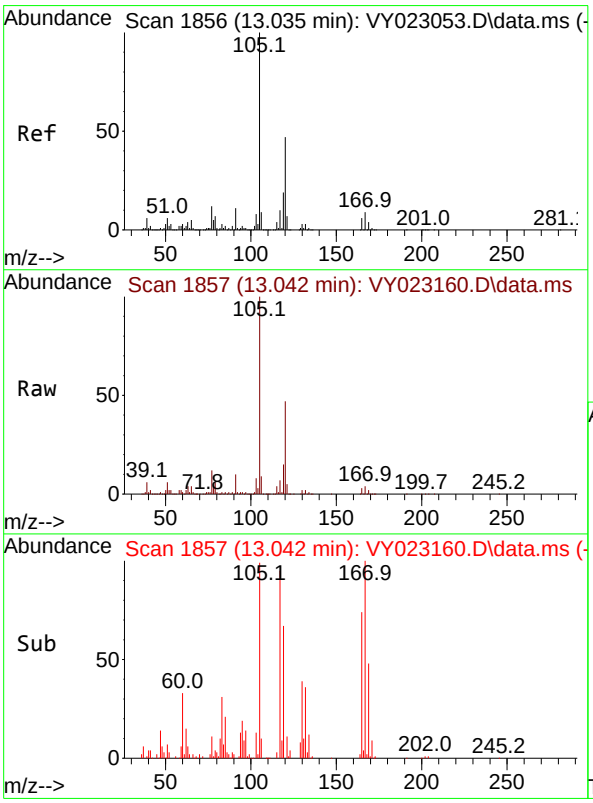
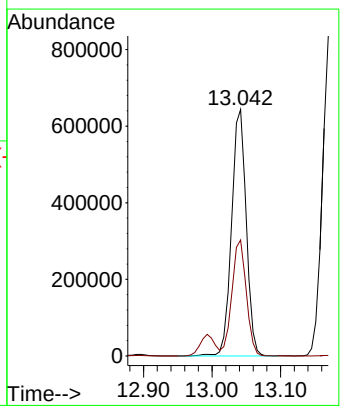
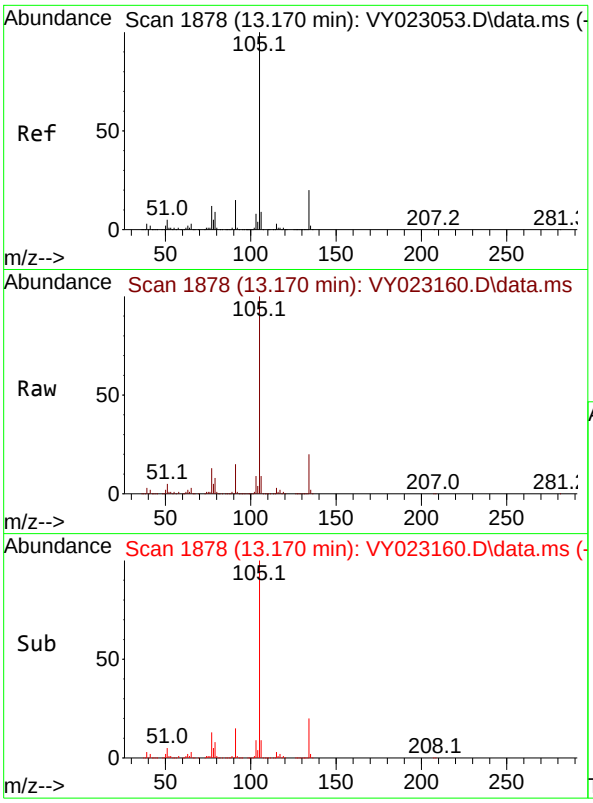



#84
1,2,4-Trimethylbenzene
Concen: 50.510 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:105 Resp: 956661

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.4 | 23.0 | 69.0 |

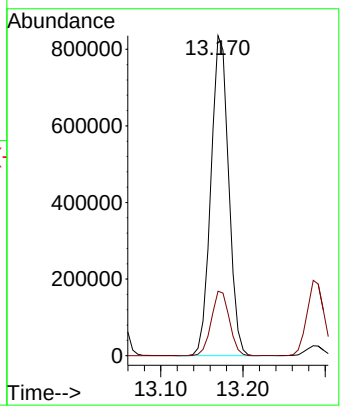





#85
sec-Butylbenzene
Concen: 49.485 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:105 Resp: 124916

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.5 | 10.2 | 30.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

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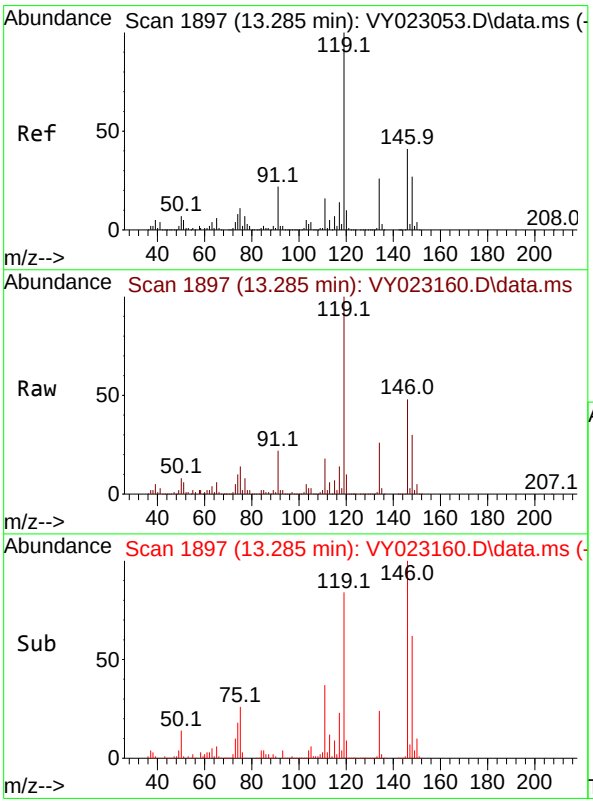
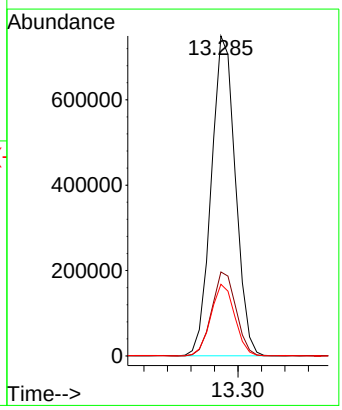
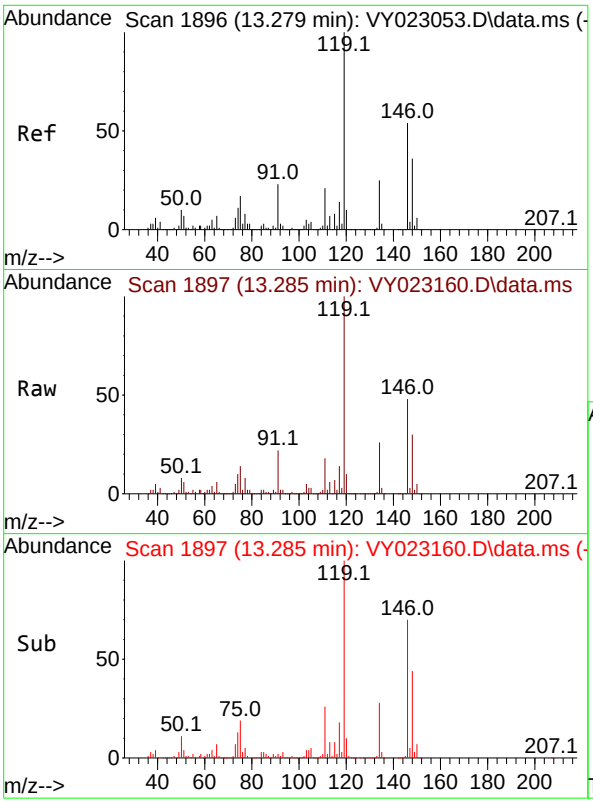



#86
p-Isopropyltoluene
Concen: 50.842 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:119 Resp: 1065308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.5 | 13.2 | 39.6 |
| 91 | 22.3 | 11.3 | 33.8 |

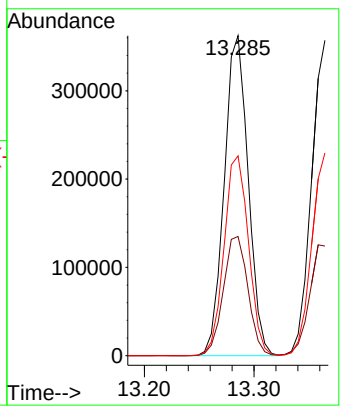





#87
1,3-Dichlorobenzene
Concen: 49.644 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:146 Resp: 54983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.5 | 19.6 | 58.7 |
| 148 | 63.8 | 32.5 | 97.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

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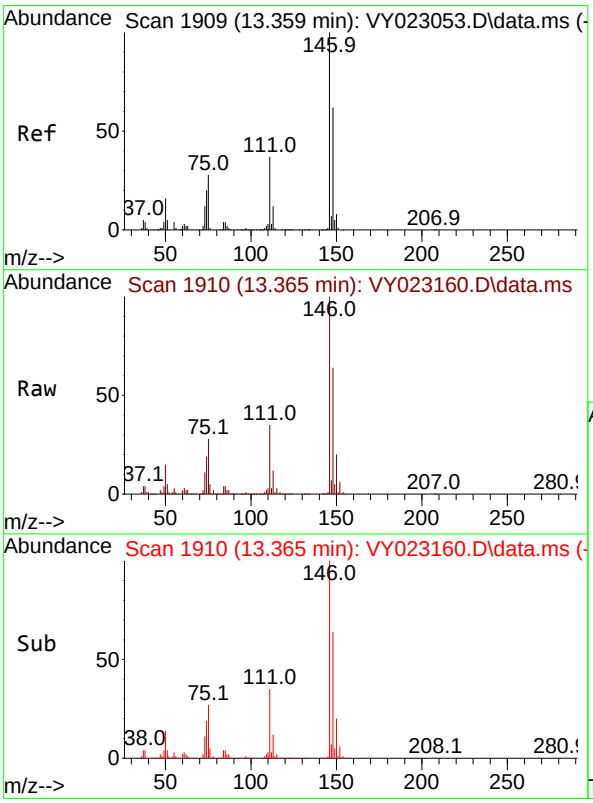
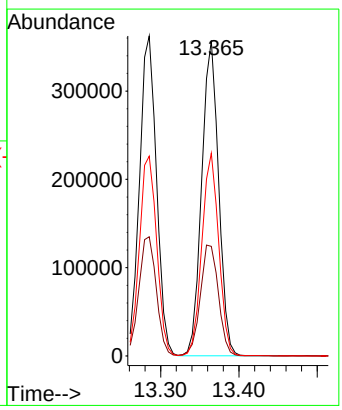
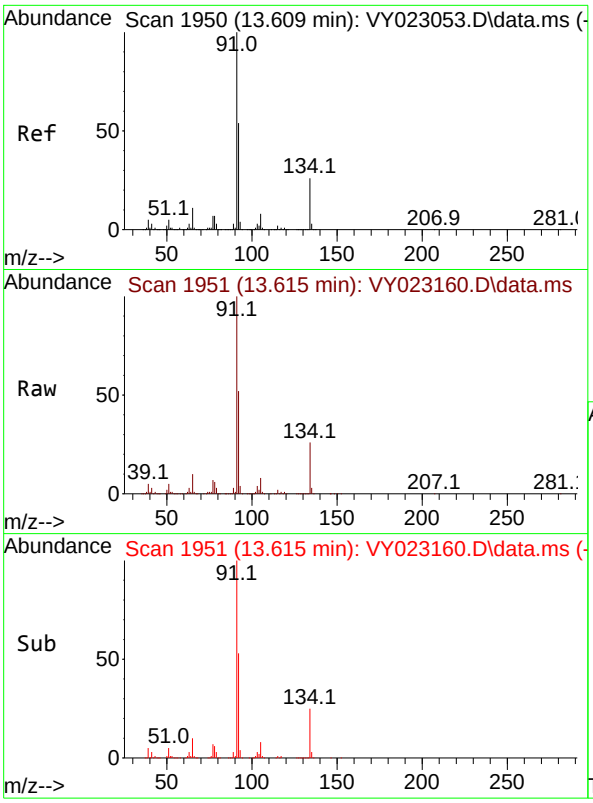



#88
1,4-Dichlorobenzene
Concen: 48.611 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:146 Resp: 534086

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 37.7 | 19.1 | 57.1 |
| 148 | 64.3 | 31.6 | 94.7 |

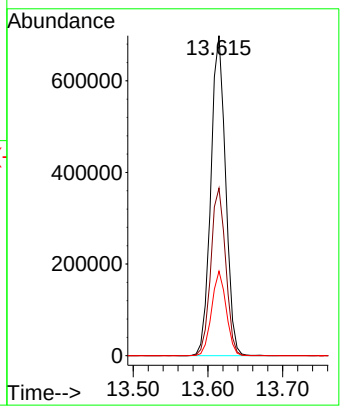





#89
n-Butylbenzene
Concen: 49.746 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 91 Resp: 95733

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.9 | 26.9 | 80.7 |
| 134 | 26.1 | 13.2 | 39.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
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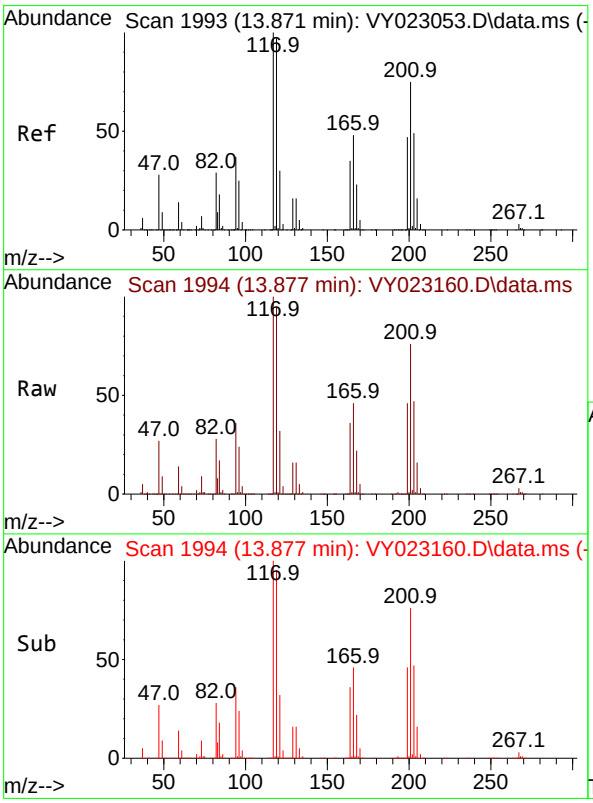
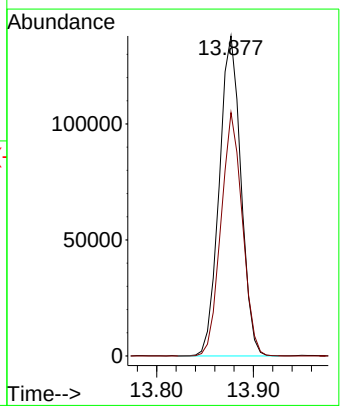
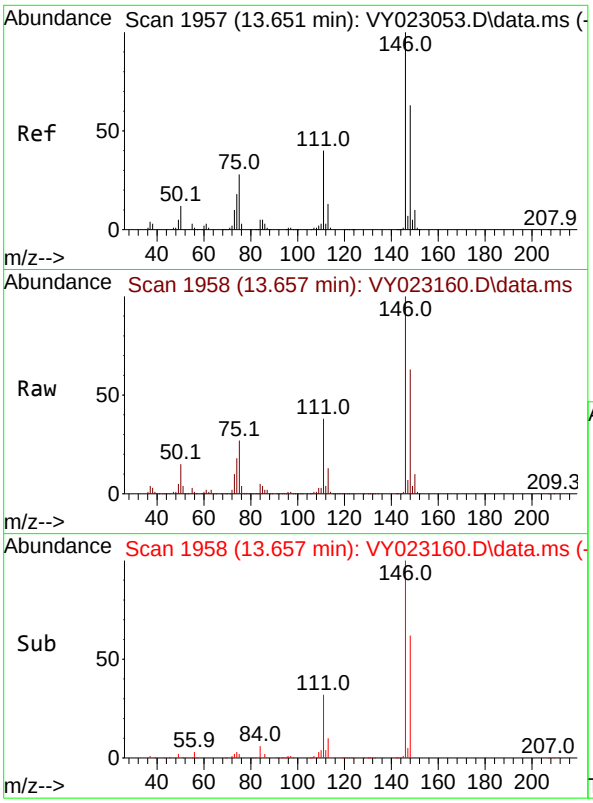



#90
Hexachloroethane
Concen: 50.008 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:117 Resp: 214503

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 75.0 | 38.4 | 115.1 |

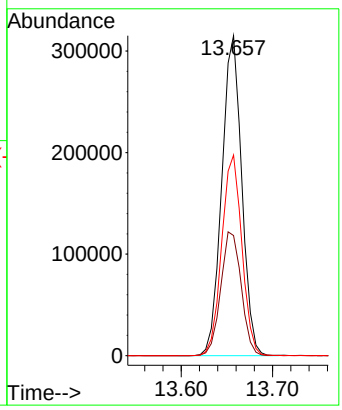





#91
1,2-Dichlorobenzene
Concen: 49.177 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:146 Resp: 47768

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.9 | 20.3 | 60.8 |
| 148 | 63.5 | 32.2 | 96.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

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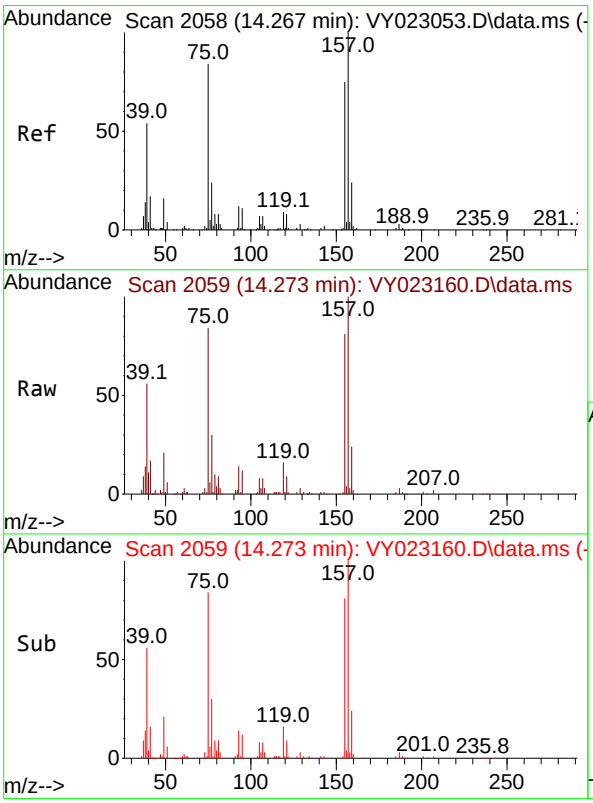
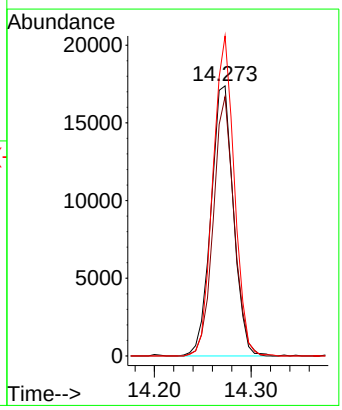
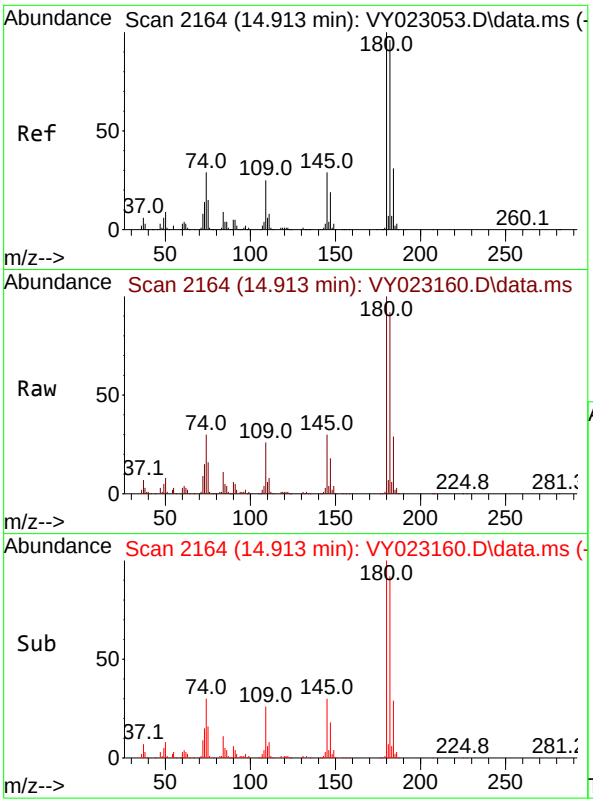



#92
1,2-Dibromo-3-Chloropropane
Concen: 44.839 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 75 Resp: 28063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 88.7 | 43.9 | 131.6 |
| 157 | 112.5 | 57.2 | 171.6 |

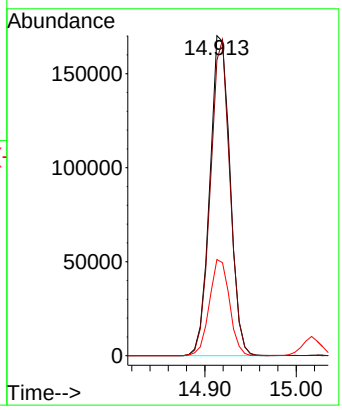





#93
1,2,4-Trichlorobenzene
Concen: 45.553 ug/l
RT: 14.913 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:180 Resp: 26166

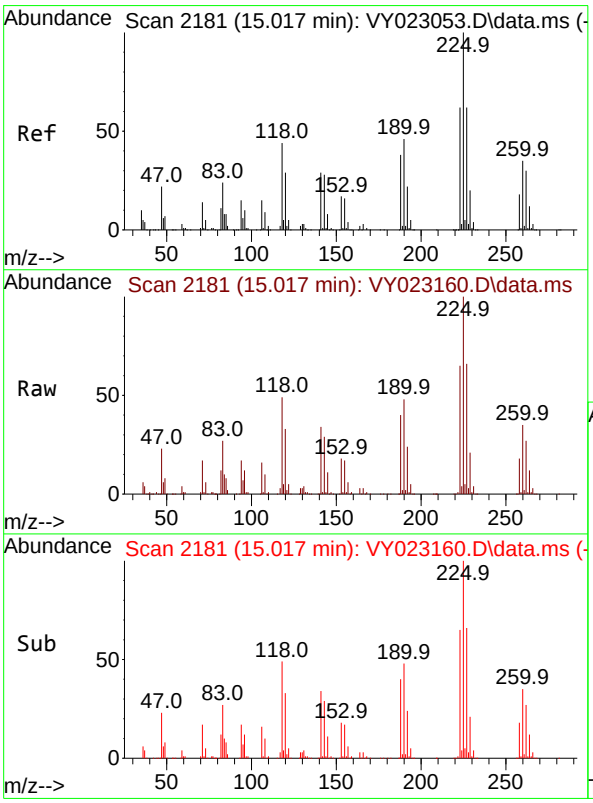
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.4 | 46.8 | 140.4 |
| 145 | 29.7 | 14.4 | 43.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

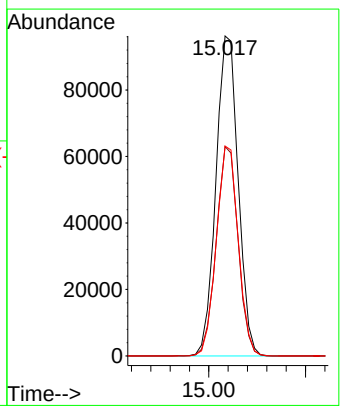
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

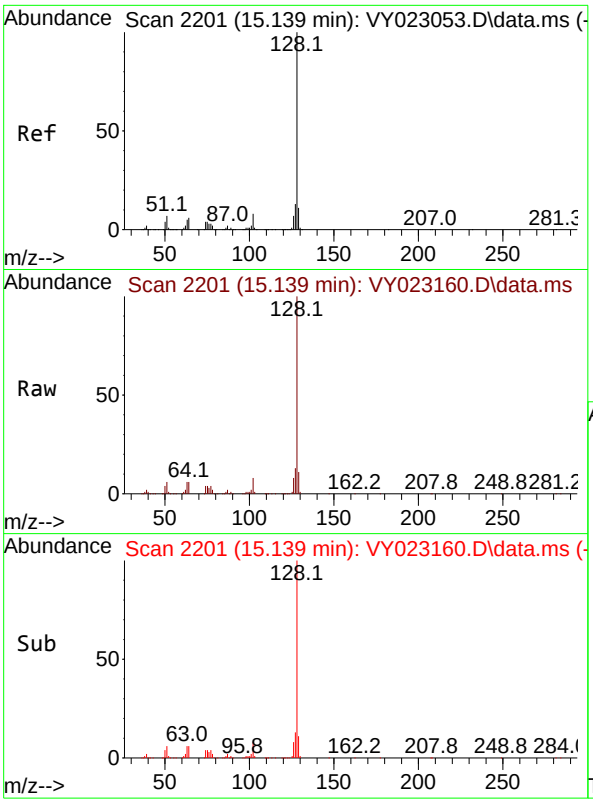



#94
Hexachlorobutadiene
Concen: 45.434 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:225 Resp: 153359

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 64.2 | 31.3 | 93.8 |
| 227 | 64.6 | 31.5 | 94.5 |

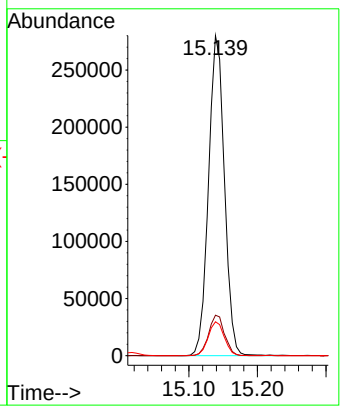





#95
Naphthalene
Concen: 46.168 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

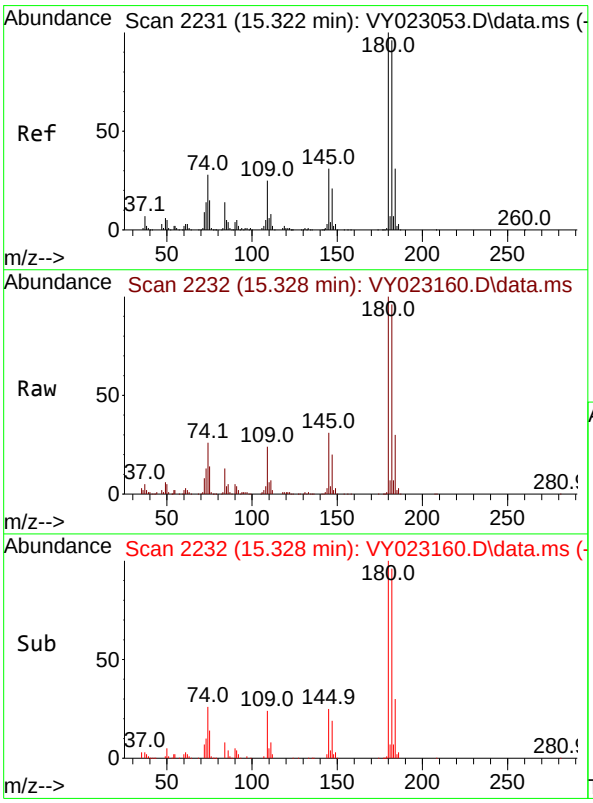
Tgt Ion:128 Resp: 45221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.8 | 10.4 | 15.6 |
| 129 | 10.7 | 9.0 | 13.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

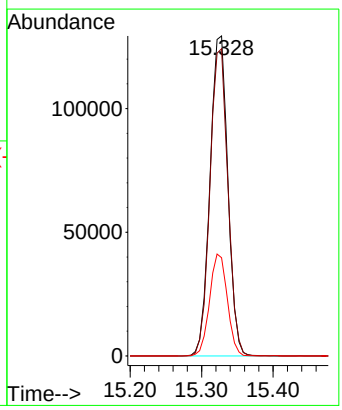
**Manual Integrations APPROVED**
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025




#96
1,2,3-Trichlorobenzene
Concen: 45.311 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:180 Resp: 224276

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.6 | 47.9 | 143.7 |
| 145 | 31.5 | 15.9 | 47.7 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023160.D
Acq On : 19 Aug 2025 19:08
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Aug 20 01:34:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 84 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.408 | 0.320 | 21.6 | 77 | 0.00 |
| 3 | P | Chloromethane | 0.661 | 0.610 | 7.7 | 85 | 0.00 |
| 4 | C | Vinyl Chloride | 0.817 | 0.782 | 4.3# | 86 | 0.00 |
| 5 | T | Bromomethane | 0.610 | 0.614 | -0.7 | 96 | 0.00 |
| 6 | T | Chloroethane | 0.543 | 0.553 | -1.8 | 90 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.994 | 0.893 | 10.2 | 80 | 0.00 |
| 8 | T | Diethyl Ether | 0.263 | 0.245 | 6.8 | 82 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.490 | 0.442 | 9.8 | 81 | 0.00 |
| 10 | T | Methyl Iodide | 0.529 | 0.581 | -9.8 | 89 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.033 | 0.028 | 15.2 | 73 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.482 | 0.454 | 5.8# | 83 | 0.00 |
| 13 | T | Acrolein | 0.048 | 0.021 | 56.3# | 40# | 0.00 |
| 14 | T | Allyl chloride | 0.709 | 0.635 | 10.4 | 78 | 0.00 |
| 15 | T | Acrylonitrile | 0.107 | 0.101 | 5.6 | 80 | 0.00 |
| 16 | T | Acetone | 0.103 | 0.077 | 25.2# | 63 | 0.00 |
| 17 | T | Carbon Disulfide | 1.571 | 1.447 | 7.9 | 82 | 0.00 |
| 18 | T | Methyl Acetate | 0.307 | 0.309 | -0.7 | 81 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.249 | 1.186 | 5.0 | 81 | 0.00 |
| 20 | T | Methylene Chloride | 0.620 | 0.539 | 13.1 | 89 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.541 | 0.543 | -0.4 | 87 | 0.01 |
| 22 | T | Diisopropyl ether | 1.541 | 1.476 | 4.2 | 82 | 0.00 |
| 23 | T | Vinyl Acetate | 0.852 | 0.761 | 10.7 | 76 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 0.942 | 0.933 | 1.0 | 86 | 0.00 |
| 25 | T | 2-Butanone | 0.140 | 0.118 | 15.7 | 70 | 0.01 |
| 26 | T | 2,2-Dichloropropane | 0.813 | 0.727 | 10.6 | 78 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.626 | 0.631 | -0.8 | 87 | 0.00 |
| 28 | T | Bromochloromethane | 0.374 | 0.372 | 0.5 | 86 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.087 | 0.078 | 10.3 | 75 | 0.00 |
| 30 | C | Chloroform | 0.971 | 0.985 | -1.4# | 88 | 0.00 |
| 31 | T | Cyclohexane | 0.888 | 0.746 | 16.0 | 77 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.862 | 0.852 | 1.2 | 86 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.477 | 0.470 | 1.5 | 86 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 85 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.299 | 0.299 | 0.0 | 86 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.445 | 0.425 | 4.5 | 83 | 0.00 |
| 37 | T | Ethyl Acetate | 0.187 | 0.166 | 11.2 | 75 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.483 | 0.470 | 2.7 | 85 | 0.00 |
| 39 | T | Methylcyclohexane | 0.586 | 0.534 | 8.9 | 80 | 0.00 |
| 40 | TM | Benzene | 1.370 | 1.375 | -0.4 | 87 | 0.00 |
| 41 | T | Methacrylonitrile | 0.108 | 0.090 | 16.7 | 70 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.356 | 0.348 | 2.2 | 85 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.378 | 0.337 | 10.8 | 77 | 0.00 |
| 44 | TM | Trichloroethene | 0.354 | 0.367 | -3.7 | 91 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.315 | 0.314 | 0.3# | 86 | 0.00 |
| 46 | T | Dibromomethane | 0.181 | 0.181 | 0.0 | 86 | 0.00 |
| 47 | T | Bromodichloromethane | 0.466 | 0.472 | -1.3 | 87 | 0.00 |
| 48 | T | Methyl methacrylate | 0.181 | 0.163 | 9.9 | 74 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023160.D
Acq On : 19 Aug 2025 19:08
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Aug 20 01:34:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 0.002 | 0.002 | 0.0 | 81 | 0.00 |
| 50 | S | Toluene-d8 | 1.169 | 1.189 | -1.7 | 88 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.195 | 0.181 | 7.2 | 77 | 0.00 |
| 52 | CM | Toluene | 0.870 | 0.891 | -2.4# | 88 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.422 | 0.407 | 3.6 | 82 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.499 | 0.486 | 2.6 | 83 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.242 | 0.243 | -0.4 | 86 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.310 | 0.300 | 3.2 | 80 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.411 | 0.402 | 2.2 | 84 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.146 | 0.152 | -4.1 | 83 | 0.00 |
| 59 | T | 2-Hexanone | 0.133 | 0.120 | 9.8 | 74 | 0.00 |
| 60 | T | Dibromochloromethane | 0.320 | 0.328 | -2.5 | 88 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.228 | 0.226 | 0.9 | 85 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.376 | 0.378 | -0.5 | 87 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 86 | 0.00 |
| 64 | T | Tetrachloroethene | 0.446 | 0.501 | -12.3 | 99 | 0.00 |
| 65 | PM | Chlorobenzene | 1.079 | 1.088 | -0.8 | 89 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.366 | 0.376 | -2.7 | 90 | 0.00 |
| 67 | C | Ethyl Benzene | 1.856 | 1.889 | -1.8# | 87 | 0.00 |
| 68 | T | m/p-Xylenes | 0.725 | 0.747 | -3.0 | 90 | 0.00 |
| 69 | T | o-Xylene | 0.679 | 0.703 | -3.5 | 88 | 0.00 |
| 70 | T | Styrene | 1.110 | 1.180 | -6.3 | 90 | 0.00 |
| 71 | P | Bromoform | 0.214 | 0.210 | 1.9 | 84 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 88 | 0.00 |
| 73 | T | Isopropylbenzene | 3.529 | 3.482 | 1.3 | 88 | 0.00 |
| 74 | T | N-amyl acetate | 0.748 | 0.653 | 12.7 | 75 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.603 | 0.519 | 13.9 | 78 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.483 | 0.467 | 3.3 | 77 | 0.00 |
| 77 | T | Bromobenzene | 0.842 | 0.820 | 2.6 | 87 | 0.00 |
| 78 | T | n-propylbenzene | 4.201 | 4.160 | 1.0 | 87 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.407 | 2.351 | 2.3 | 87 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.852 | 2.862 | -0.4 | 88 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.199 | 0.172 | 13.6 | 77 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.497 | 2.447 | 2.0 | 88 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.576 | 2.572 | 0.2 | 88 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.839 | 2.868 | -1.0 | 89 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.784 | 3.745 | 1.0 | 88 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.141 | 3.194 | -1.7 | 89 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.660 | 1.648 | 0.7 | 90 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.647 | 1.601 | 2.8 | 88 | 0.00 |
| 89 | T | n-Butylbenzene | 2.885 | 2.870 | 0.5 | 87 | 0.00 |
| 90 | T | Hexachloroethane | 0.643 | 0.643 | 0.0 | 90 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.456 | 1.432 | 1.6 | 89 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.094 | 0.084 | 10.6 | 78 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.861 | 0.784 | 8.9 | 82 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.506 | 0.460 | 9.1 | 83 | 0.00 |
| 95 | T | Naphthalene | 1.468 | 1.356 | 7.6 | 80 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023160.D
Acq On : 19 Aug 2025 19:08
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Aug 20 01:34:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 0.742 | 0.672 | 9.4 | 82 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023160.D
Acq On : 19 Aug 2025 19:08
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Aug 20 01:34:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 84 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 39.160 | 21.7 | 77 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 46.137 | 7.7 | 85 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 47.848 | 4.3# | 86 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 50.342 | -0.7 | 96 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 50.860 | -1.7 | 90 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 44.950 | 10.1 | 80 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 46.597 | 6.8 | 82 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 45.085 | 9.8 | 81 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 54.928 | -9.9 | 89 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 211.323 | 15.5 | 73 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 47.120 | 5.8# | 83 | 0.00 |
| 13 | T | Acrolein | 250.000 | 110.581 | 55.8# | 40 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 44.800 | 10.4 | 78 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 235.673 | 5.7 | 80 | 0.00 |
| 16 | T | Acetone | 250.000 | 187.073 | 25.2# | 63 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 46.066 | 7.9 | 82 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 50.290 | -0.6 | 81 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 47.480 | 5.0 | 81 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 50.247 | -0.5 | 89 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 50.119 | -0.2 | 87 | 0.01 |
| 22 | T | Diisopropyl ether | 50.000 | 47.919 | 4.2 | 82 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 223.289 | 10.7 | 76 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 49.522 | 1.0 | 86 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 210.456 | 15.8 | 70 | 0.01 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 44.729 | 10.5 | 78 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 50.390 | -0.8 | 87 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 49.712 | 0.6 | 86 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 223.965 | 10.4 | 75 | 0.00 |
| 30 | C | Chloroform | 50.000 | 50.699 | -1.4# | 88 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 42.047 | 15.9 | 77 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 49.443 | 1.1 | 86 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 49.322 | 1.4 | 86 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 85 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 49.903 | 0.2 | 86 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 47.746 | 4.5 | 83 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 44.444 | 11.1 | 75 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 48.612 | 2.8 | 85 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 45.580 | 8.8 | 80 | 0.00 |
| 40 | TM | Benzene | 50.000 | 50.170 | -0.3 | 87 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 41.877 | 16.2 | 70 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 48.835 | 2.3 | 85 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 44.694 | 10.6 | 77 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 51.782 | -3.6 | 91 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 49.829 | 0.3# | 86 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 49.971 | 0.1 | 86 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 50.703 | -1.4 | 87 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 45.021 | 10.0 | 74 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023160.D
Acq On : 19 Aug 2025 19:08
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Aug 20 01:34:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 1000.000 | 946.444 | 5.4 | 81 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 50.853 | -1.7 | 88 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 231.971 | 7.2 | 77 | 0.00 |
| 52 | CM | Toluene | 50.000 | 51.179 | -2.4# | 88 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 48.297 | 3.4 | 82 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 48.751 | 2.5 | 83 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 50.180 | -0.4 | 86 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 48.375 | 3.3 | 80 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 48.952 | 2.1 | 84 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 259.330 | -3.7 | 83 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 225.681 | 9.7 | 74 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 51.365 | -2.7 | 88 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 49.588 | 0.8 | 85 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 50.308 | -0.6 | 87 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 86 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 56.055 | -12.1 | 99 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 50.434 | -0.9 | 89 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 51.411 | -2.8 | 90 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 50.888 | -1.8# | 87 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 103.051 | -3.1 | 90 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 51.799 | -3.6 | 88 | 0.00 |
| 70 | T | Styrene | 50.000 | 53.132 | -6.3 | 90 | 0.00 |
| 71 | P | Bromoform | 50.000 | 48.980 | 2.0 | 84 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 88 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 49.330 | 1.3 | 88 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 43.613 | 12.8 | 75 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 43.025 | 14.0 | 78 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 48.345 | 3.3 | 77 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 48.690 | 2.6 | 87 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 49.502 | 1.0 | 87 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 48.829 | 2.3 | 87 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 50.180 | -0.4 | 88 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 43.134 | 13.7 | 77 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 48.995 | 2.0 | 88 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 49.921 | 0.2 | 88 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 50.510 | -1.0 | 89 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 49.485 | 1.0 | 88 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 50.842 | -1.7 | 89 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 49.644 | 0.7 | 90 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 48.611 | 2.8 | 88 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 49.746 | 0.5 | 87 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 50.008 | -0.0 | 90 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 49.177 | 1.6 | 89 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 44.839 | 10.3 | 78 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 45.553 | 8.9 | 82 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 45.434 | 9.1 | 83 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 46.168 | 7.7 | 80 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023160.D
Acq On : 19 Aug 2025 19:08
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Aug 20 01:34:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 45.311 | 9.4 | 82 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

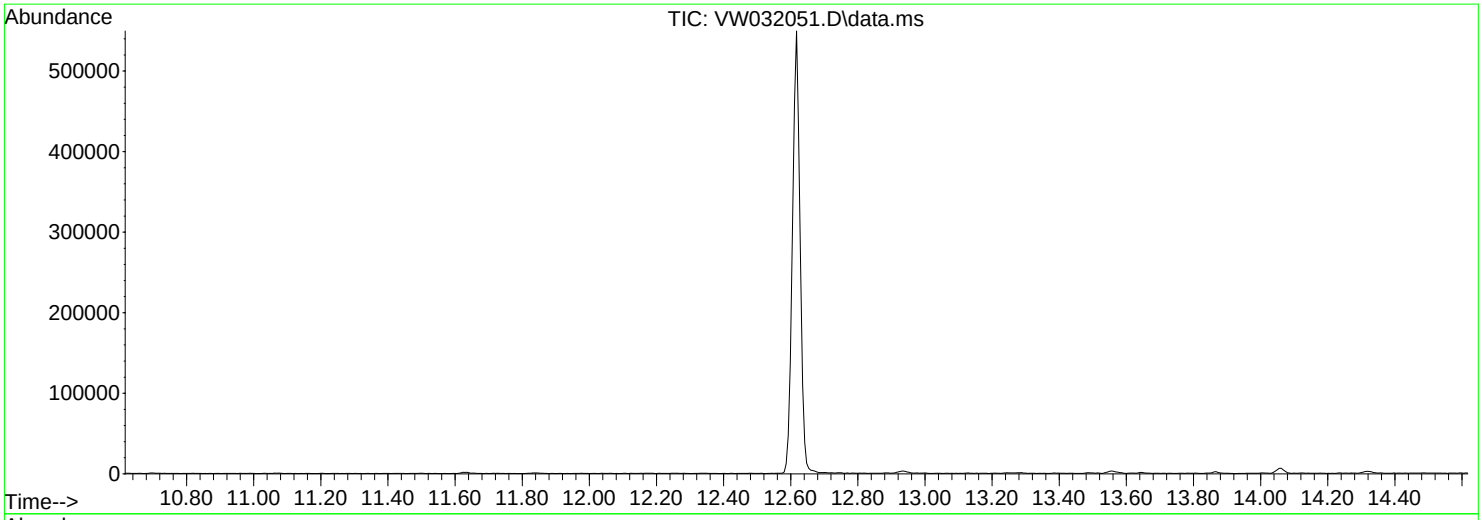
# QC SAMPLE DATA

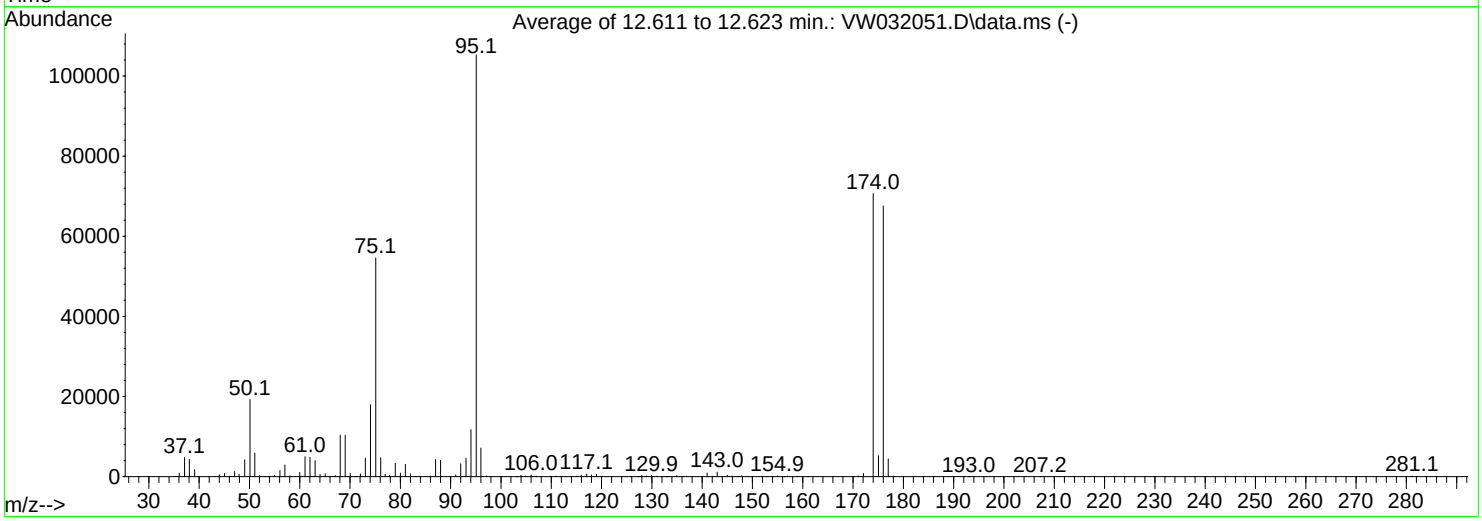
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032051.D
Acq On : 11 Aug 2025 07:53
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Title : SW846 8260
Last Update : Tue Aug 12 04:04:48 2025




AutoFind: Scans 1759, 1760, 1761; Background Corrected with Scan 1750

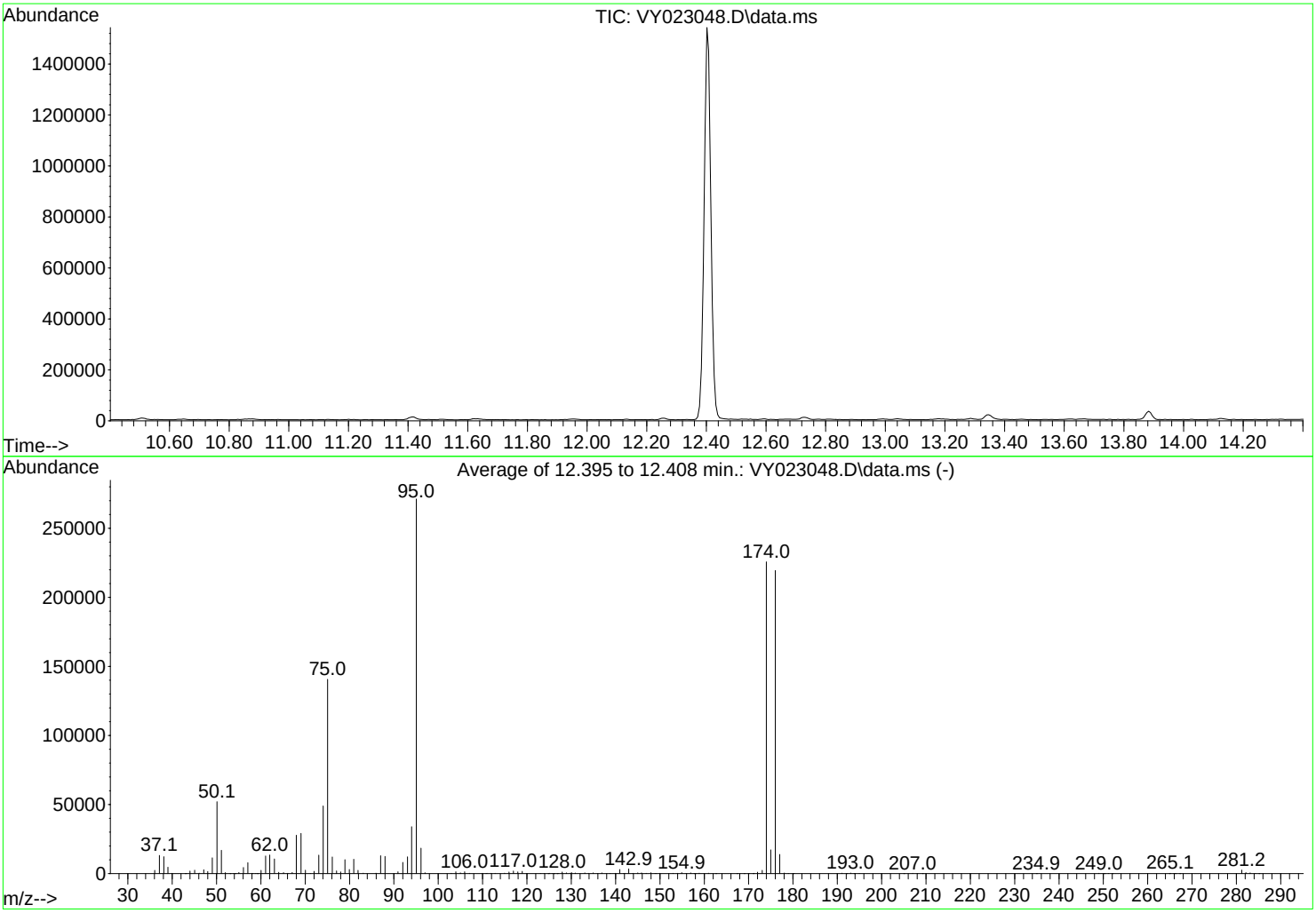
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 18.3 | 19253 | PASS |
| 75 | 95 | 30 | 60 | 51.9 | 54621 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 105291 | PASS |
| 96 | 95 | 5 | 9 | 6.8 | 7140 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 100 | 67.1 | 70667 | PASS |
| 175 | 174 | 5 | 9 | 7.3 | 5189 | PASS |
| 176 | 174 | 95 | 101 | 95.6 | 67573 | PASS |
| 177 | 176 | 5 | 9 | 6.5 | 4421 | PASS |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023048.D
Acq On : 12 Aug 2025 08:26
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Title : SW846 8260
Last Update : Wed Aug 13 02:10:11 2025




AutoFind: Scans 1751, 1752, 1753; Background Corrected with Scan 1743

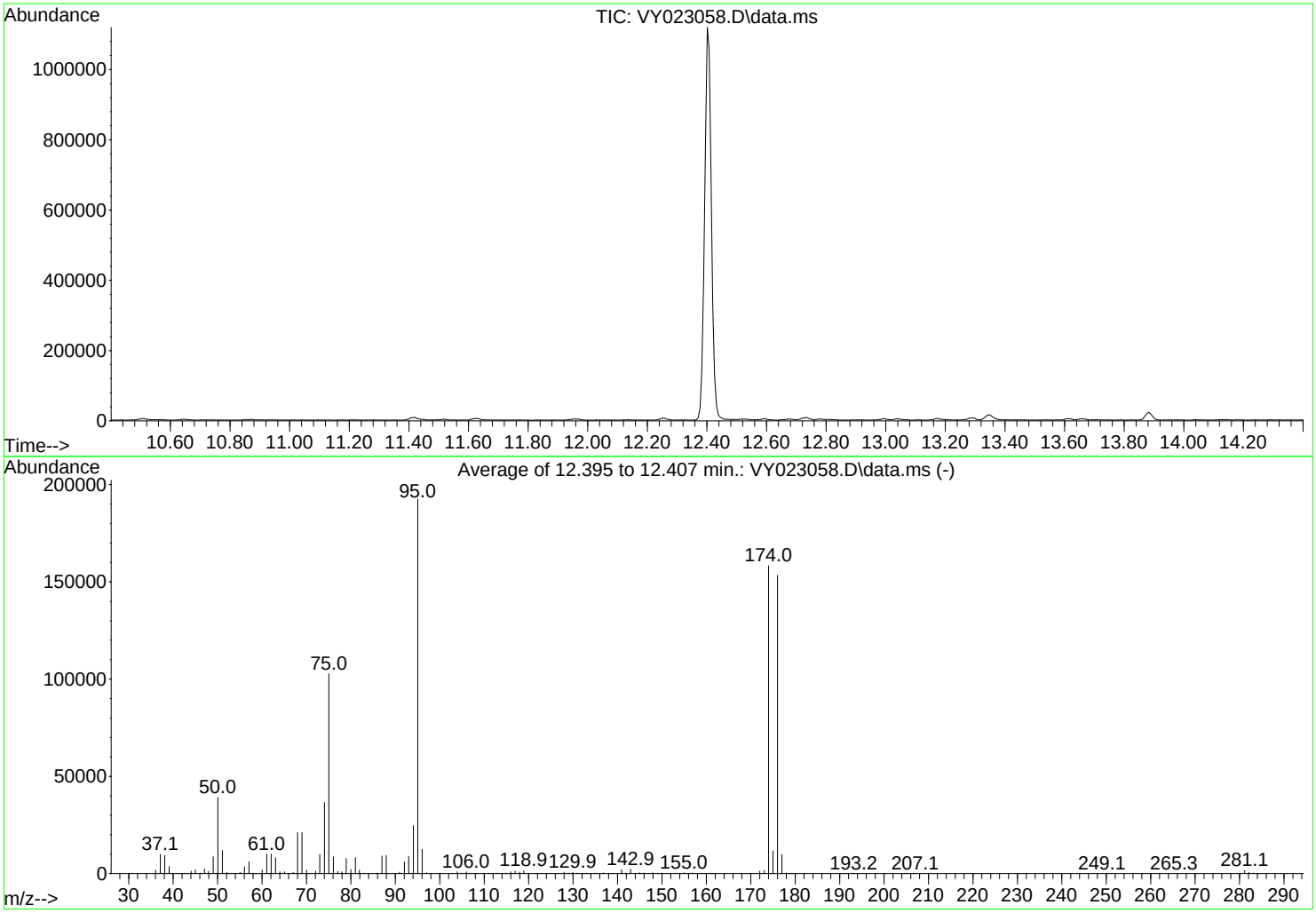
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 19.2 | 52107 | PASS |
| 75 | 95 | 30 | 60 | 51.9 | 140677 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 271211 | PASS |
| 96 | 95 | 5 | 9 | 6.8 | 18415 | PASS |
| 173 | 174 | 0.00 | 2 | 1.1 | 2383 | PASS |
| 174 | 95 | 50 | 100 | 83.2 | 225707 | PASS |
| 175 | 174 | 5 | 9 | 7.6 | 17158 | PASS |
| 176 | 174 | 95 | 101 | 97.2 | 219435 | PASS |
| 177 | 176 | 5 | 9 | 6.4 | 13937 | PASS |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023058.D
Acq On : 13 Aug 2025 08:21
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Title : SW846 8260
Last Update : Wed Aug 13 02:10:11 2025




AutoFind: Scans 1751, 1752, 1753; Background Corrected with Scan 1743

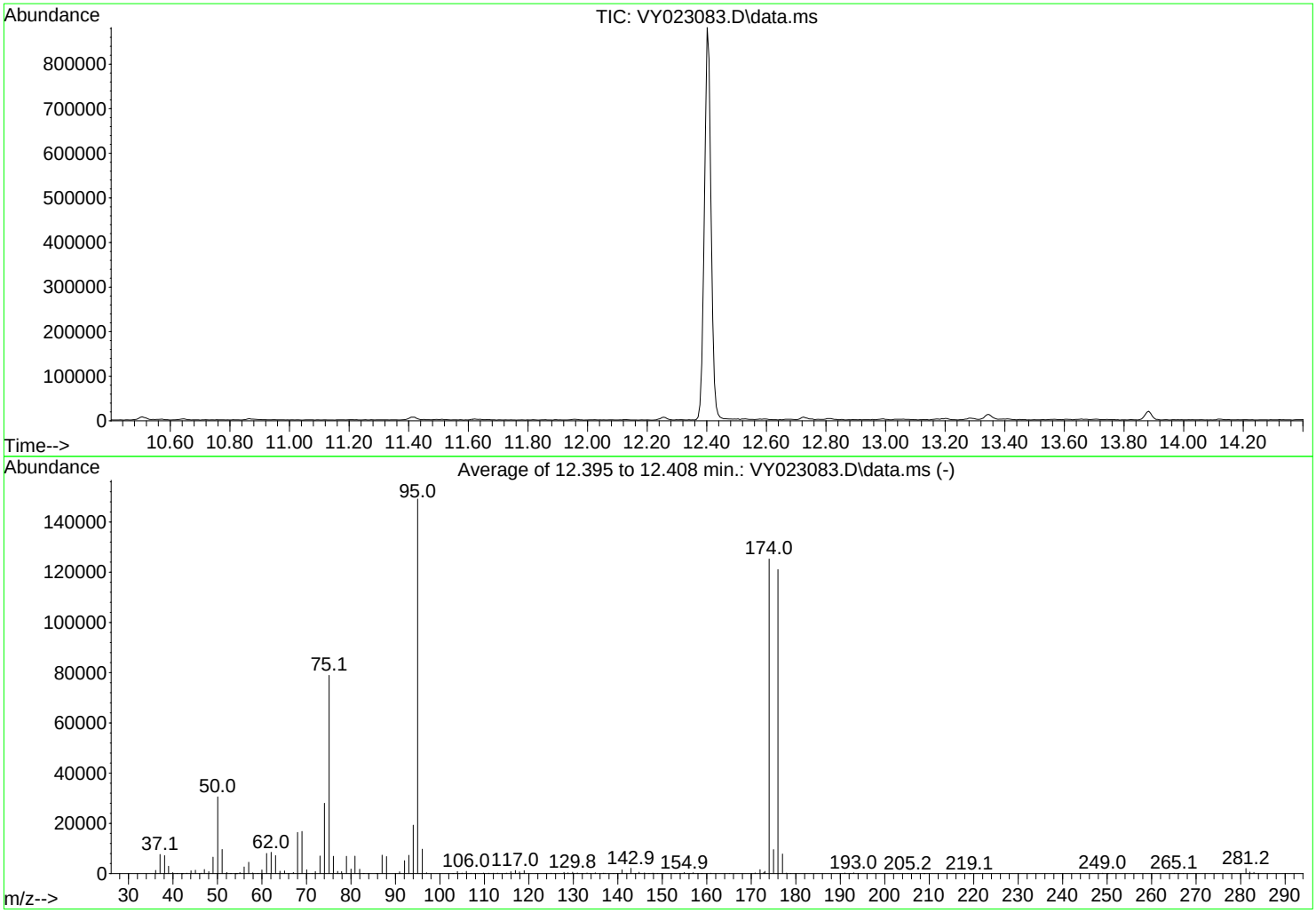
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 20.3 | 39163 | PASS |
| 75 | 95 | 30 | 60 | 53.4 | 102800 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 192597 | PASS |
| 96 | 95 | 5 | 9 | 6.4 | 12401 | PASS |
| 173 | 174 | 0.00 | 2 | 1.0 | 1625 | PASS |
| 174 | 95 | 50 | 100 | 82.2 | 158224 | PASS |
| 175 | 174 | 5 | 9 | 7.4 | 11707 | PASS |
| 176 | 174 | 95 | 101 | 96.9 | 153344 | PASS |
| 177 | 176 | 5 | 9 | 6.4 | 9830 | PASS |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023083.D
Acq On : 14 Aug 2025 09:48
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Title : SW846 8260
Last Update : Wed Aug 13 02:10:11 2025




AutoFind: Scans 1751, 1752, 1753; Background Corrected with Scan 1744

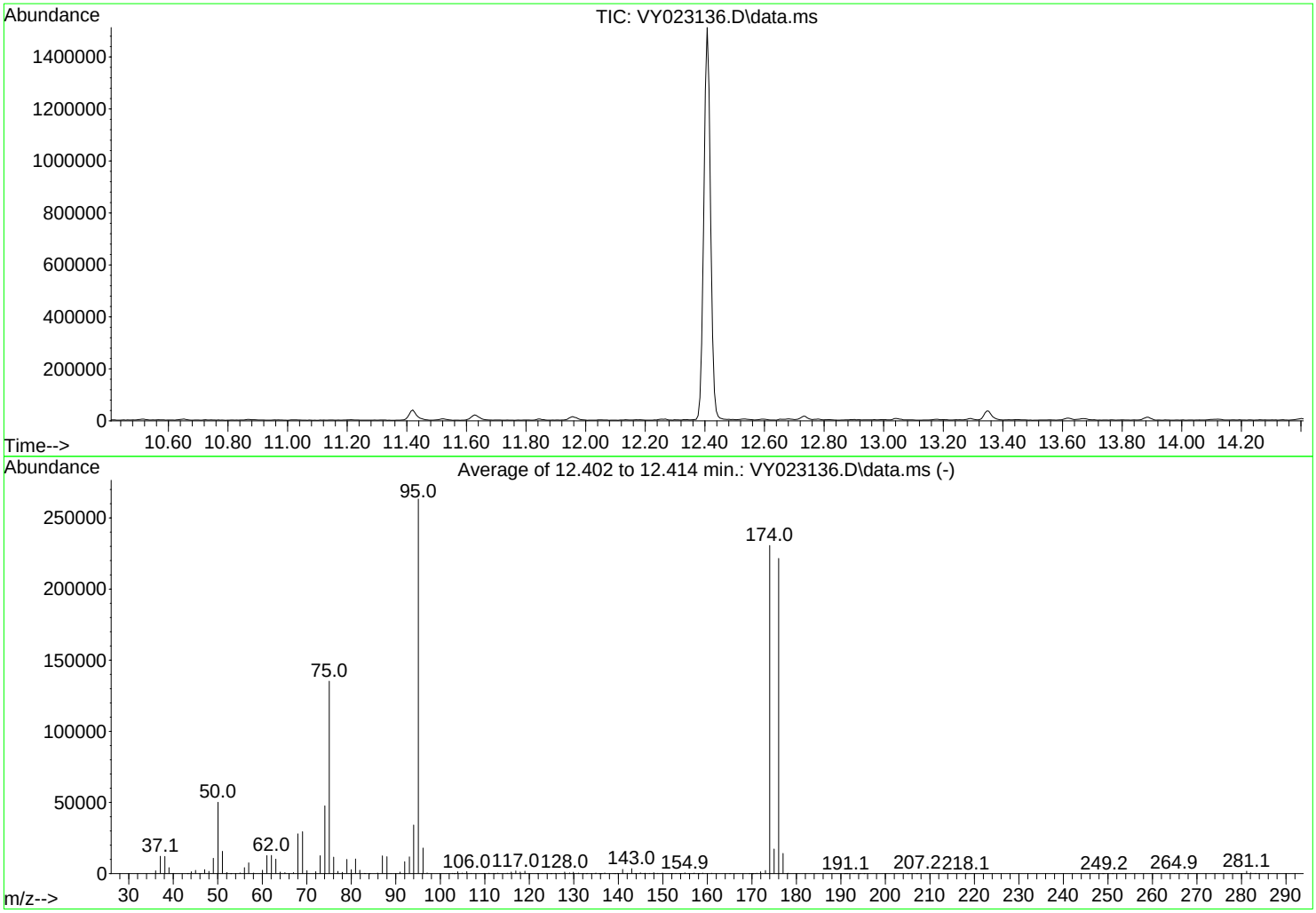
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 20.5 | 30528 | PASS |
| 75 | 95 | 30 | 60 | 52.9 | 78941 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 149157 | PASS |
| 96 | 95 | 5 | 9 | 6.5 | 9739 | PASS |
| 173 | 174 | 0.00 | 2 | 0.7 | 935 | PASS |
| 174 | 95 | 50 | 100 | 84.0 | 125272 | PASS |
| 175 | 174 | 5 | 9 | 7.6 | 9545 | PASS |
| 176 | 174 | 95 | 101 | 96.6 | 121075 | PASS |
| 177 | 176 | 5 | 9 | 6.5 | 7816 | PASS |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023136.D
Acq On : 19 Aug 2025 07:45
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 30 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Title : SW846 8260
Last Update : Wed Aug 13 02:10:11 2025




AutoFind: Scans 1752, 1753, 1754; Background Corrected with Scan 1742

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 19.1 | 50171 | PASS |
| 75 | 95 | 30 | 60 | 51.4 | 135277 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 263317 | PASS |
| 96 | 95 | 5 | 9 | 6.8 | 17949 | PASS |
| 173 | 174 | 0.00 | 2 | 1.0 | 2231 | PASS |
| 174 | 95 | 50 | 100 | 87.6 | 230592 | PASS |
| 175 | 174 | 5 | 9 | 7.5 | 17273 | PASS |
| 176 | 174 | 95 | 101 | 96.1 | 221525 | PASS |
| 177 | 176 | 5 | 9 | 6.4 | 14202 | PASS |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | |
| Project: | USACE018-44 DOD | Date Received: | |
| Client Sample ID: | VW0811SBL01 | SDG No.: | Q2819 |
| Lab Sample ID: | VW0811SBL01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VW032060.D | 1 | 08/11/25 12:18 | VW081125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/Kg |
| 74-87-3 | Chloromethane | 2.50 | U | 1.10 | 2.50 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 2.50 | U | 0.79 | 2.50 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 2.50 | U | 1.30 | 2.50 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 4.00 | U | 1.20 | 4.00 | 5.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 2.50 | U | 1.10 | 2.50 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 2.50 | U | 1.00 | 2.50 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 20.0 | U | 4.70 | 20.0 | 25.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 2.50 | U | 0.73 | 2.50 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 4.00 | U | 1.50 | 4.00 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 8.00 | U | 3.50 | 8.00 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 2.50 | U | 0.86 | 2.50 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 2.50 | U | 0.80 | 2.50 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 2.50 | U | 0.79 | 2.50 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 20.0 | U | 6.50 | 20.0 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 2.50 | U | 0.97 | 2.50 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 2.50 | U | 0.75 | 2.50 | 5.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 4.00 | U | 1.20 | 4.00 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 4.00 | U | 0.84 | 4.00 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 2.50 | U | 0.93 | 2.50 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 2.50 | U | 0.91 | 2.50 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 2.50 | U | 0.79 | 2.50 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 2.50 | U | 0.79 | 2.50 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 2.50 | U | 0.81 | 2.50 | 5.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 2.50 | U | 0.91 | 2.50 | 5.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 2.50 | U | 0.78 | 2.50 | 5.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 12.5 | U | 3.60 | 12.5 | 25.0 | ug/Kg |
| 108-88-3 | Toluene | 2.50 | U | 0.78 | 2.50 | 5.00 | ug/Kg |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | |
| Project: | USACE018-44 DOD | Date Received: | |
| Client Sample ID: | VW0811SBL01 | SDG No.: | Q2819 |
| Lab Sample ID: | VW0811SBL01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VW032060.D | 1 | 08/11/25 12:18 | VW081125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 2.50 | U | 0.65 | 2.50 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 2.50 | U | 0.62 | 2.50 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 2.50 | U | 0.92 | 2.50 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 12.5 | U | 3.70 | 12.5 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 2.50 | U | 0.87 | 2.50 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 2.50 | U | 0.88 | 2.50 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 2.50 | U | 1.10 | 2.50 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 2.50 | U | 0.91 | 2.50 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 2.50 | U | 0.67 | 2.50 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 5.00 | U | 1.20 | 5.00 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 2.50 | U | 0.82 | 2.50 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 2.50 | U | 0.71 | 2.50 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 2.50 | U | 0.86 | 2.50 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 2.50 | U | 0.78 | 2.50 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 2.50 | U | 1.20 | 2.50 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 2.50 | U | 1.70 | 2.50 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 2.50 | U | 1.60 | 2.50 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 2.50 | U | 1.50 | 2.50 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 4.00 | U | 1.80 | 4.00 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.00 | U | 3.00 | 4.00 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 4.00 | U | 3.20 | 4.00 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 52.6 | | 71 - 136 | | 105% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 47.8 | | 78 - 119 | | 96% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 49.1 | | 85 - 116 | | 98% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 47.4 | | 79 - 119 | | 95% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 176000 | 7.959 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 392000 | 8.849 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 359000 | 11.635 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 170000 | 13.556 | | | | |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | |
| Project: | USACE018-44 DOD | Date Received: | |
| Client Sample ID: | VW0811SBL01 | SDG No.: | Q2819 |
| Lab Sample ID: | VW0811SBL01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VW032060.D | 1 | 08/11/25 12:18 | VW081125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032060.D
Acq On : 11 Aug 2025 12:18
Operator : SY/MD
Sample : VW0811SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBL01

Quant Time: Aug 12 04:22:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

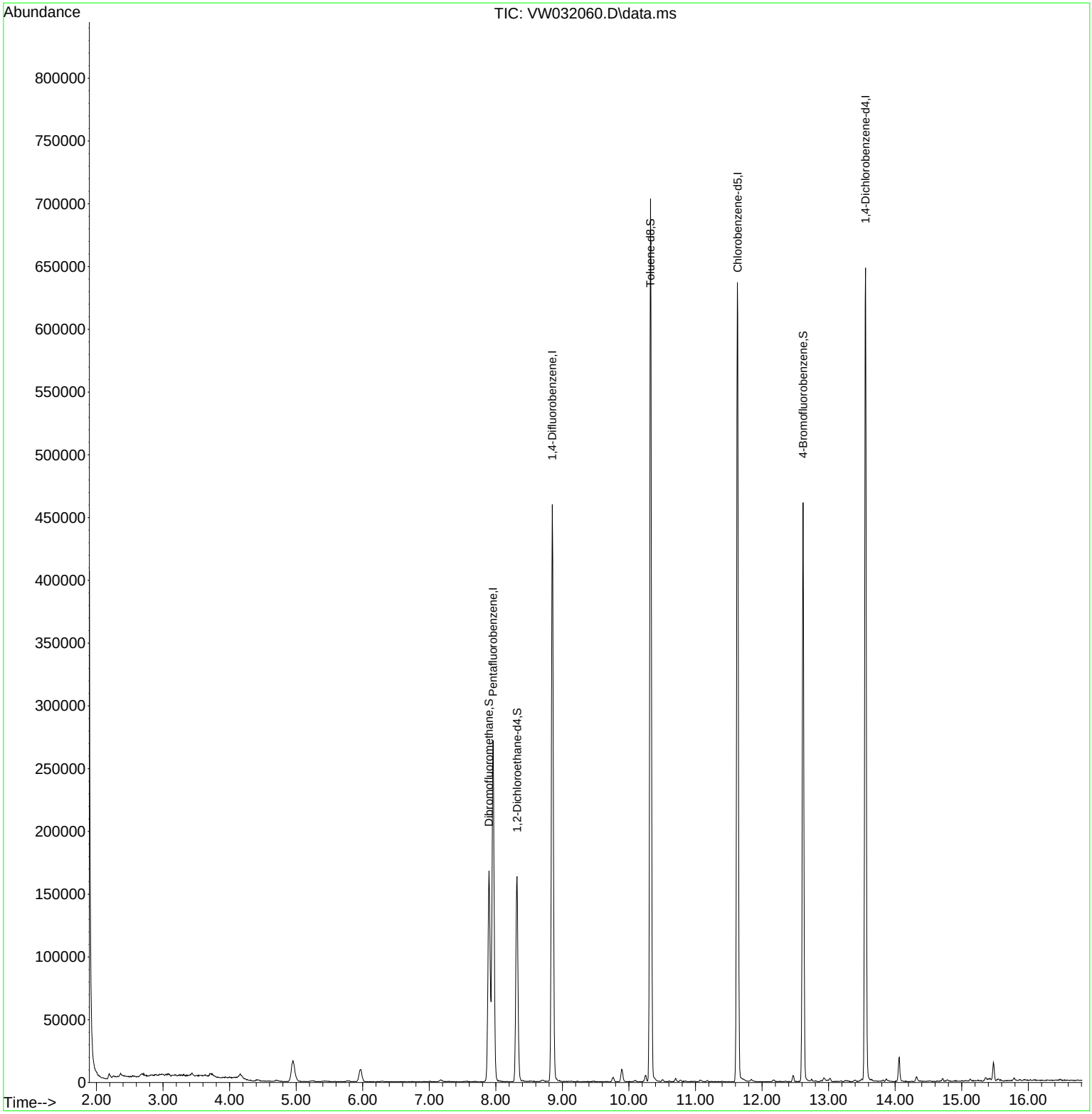
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.959 | 168 | 176404 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.849 | 114 | 391811 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.635 | 117 | 359327 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.556 | 152 | 169733 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.319 | 65 | 134172 | 52.590 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 63 - 155 | | Recovery = 105.180% | | | |
| 35) Dibromofluoromethane | 7.898 | 113 | 121027 | 47.813 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 70 - 134 | | Recovery = 95.620% | | | |
| 50) Toluene-d8 | 10.325 | 98 | 459644 | 49.095 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 123 | | Recovery = 98.180% | | | |
| 62) 4-Bromofluorobenzene | 12.617 | 95 | 163583 | 47.413 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 17 - 146 | | Recovery = 94.820% | | | |
| Target Compounds | | | | | | Qvalue |

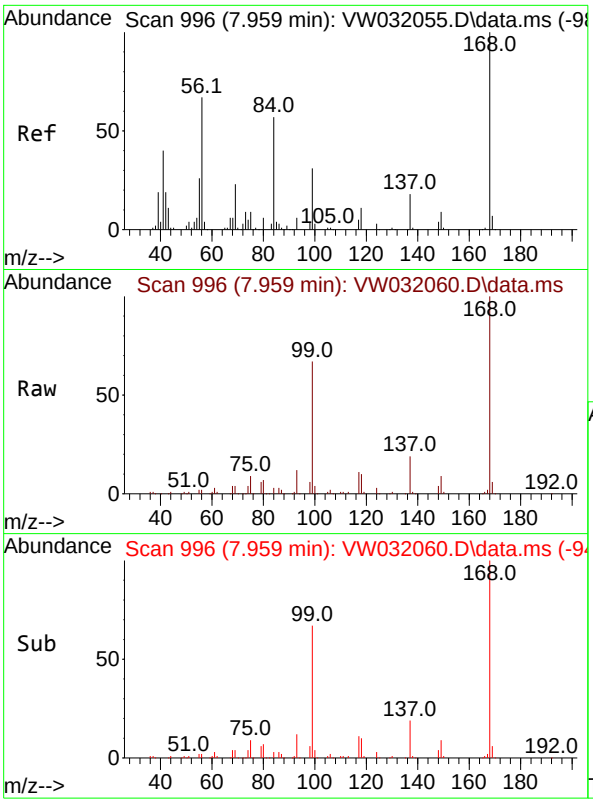
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032060.D
Acq On : 11 Aug 2025 12:18
Operator : SY/MD
Sample : VW0811SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBL01

Quant Time: Aug 12 04:22:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration



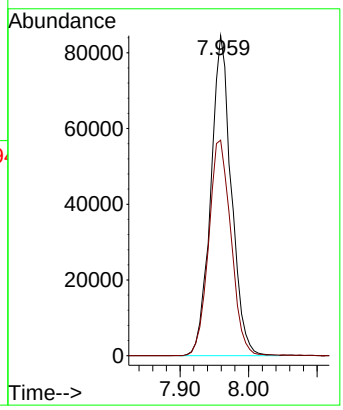


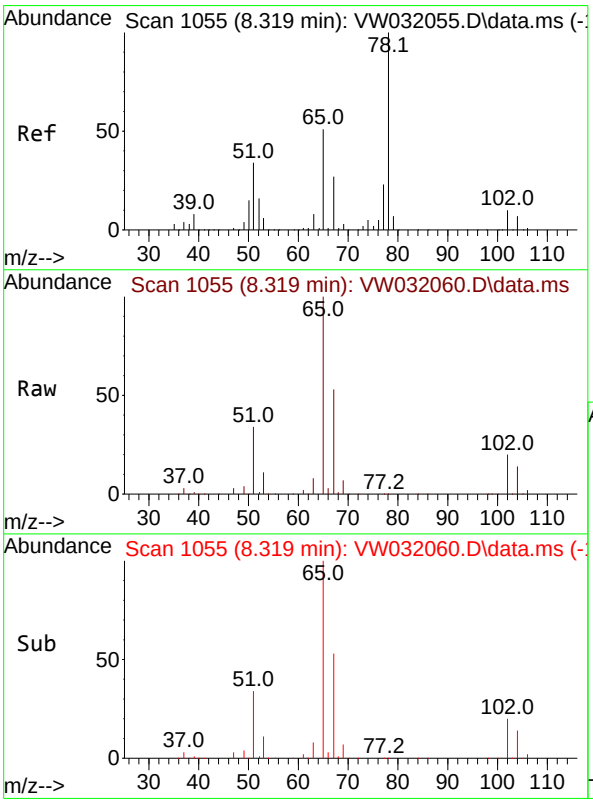

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032060.D
Acq: 11 Aug 2025 12:18

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBL01

Tgt Ion:168 Resp: 176404

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 67.3 | 56.0 | 84.0 |

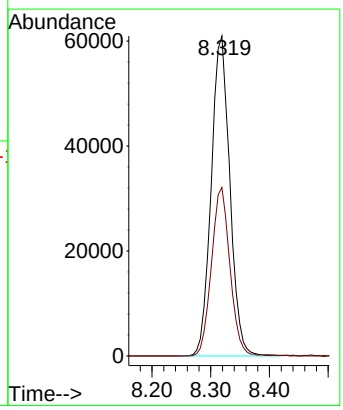


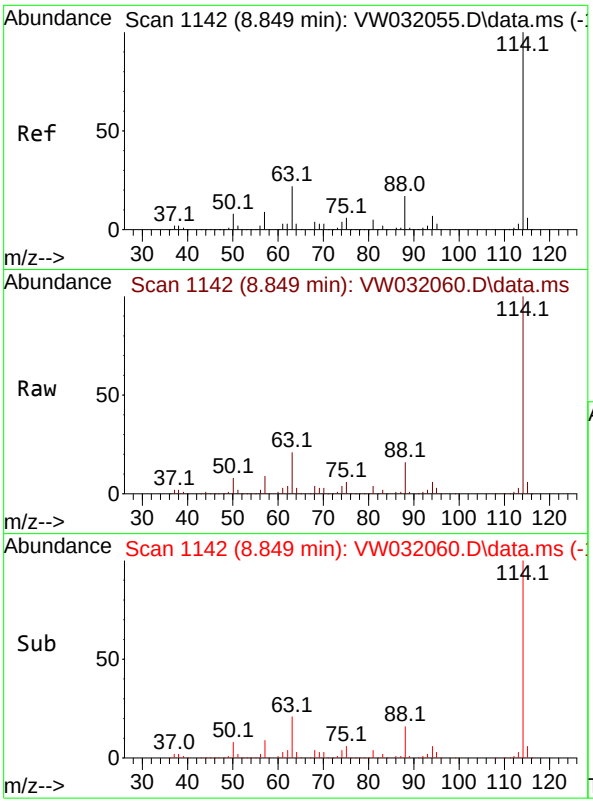




#33
1,2-Dichloroethane-d4
Concen: 52.590 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. -0.000 min
Lab File: VW032060.D
Acq: 11 Aug 2025 12:18

Tgt Ion: 65 Resp: 134172

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.4 | 0.0 | 102.4 |



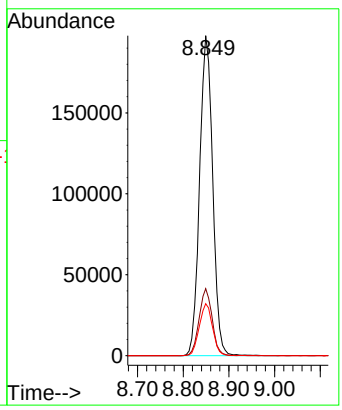


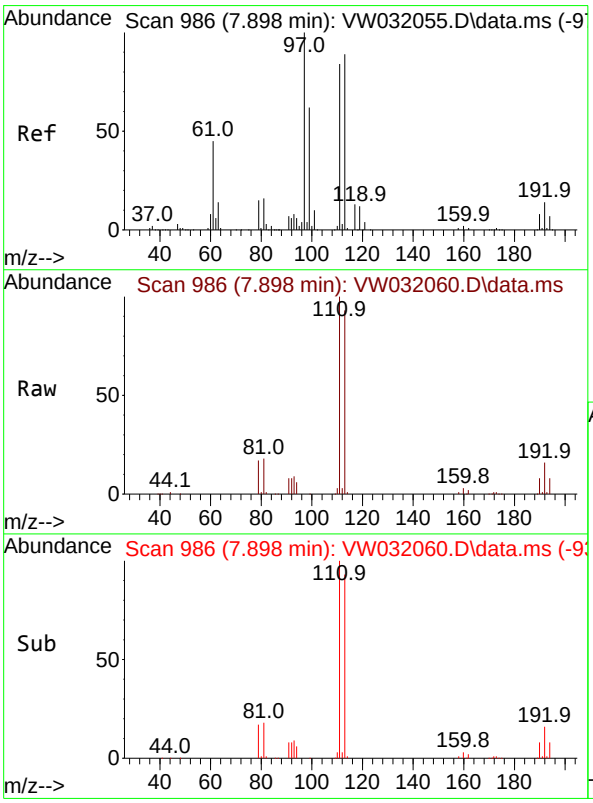

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW032060.D
Acq: 11 Aug 2025 12:18

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBL01

Tgt Ion:114 Resp: 391811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.9 | 0.0 | 43.0 |
| 88 | 16.3 | 0.0 | 33.8 |

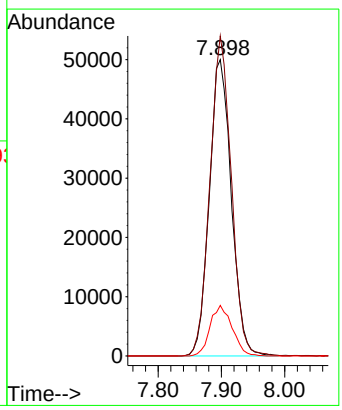


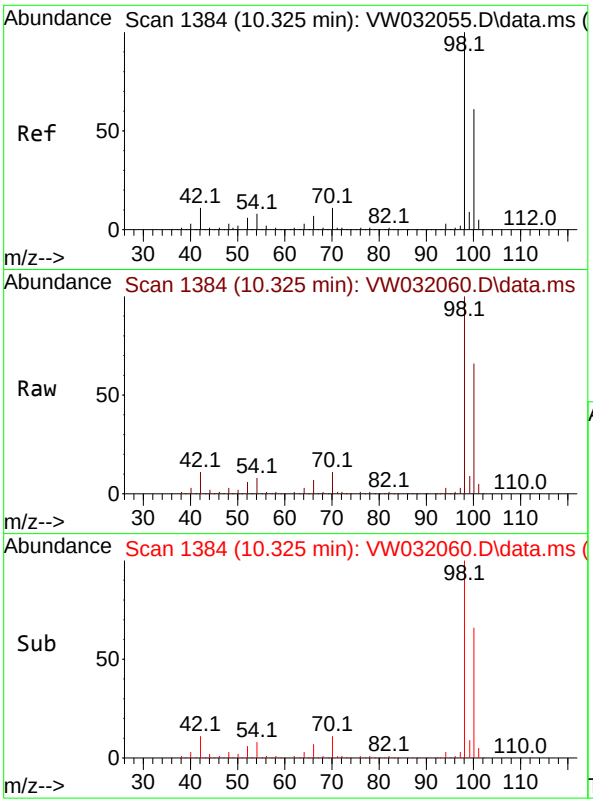




#35
Dibromofluoromethane
Concen: 47.813 ug/l
RT: 7.898 min Scan# 986
Delta R.T. -0.000 min
Lab File: VW032060.D
Acq: 11 Aug 2025 12:18

Tgt Ion:113 Resp: 121027

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 104.5 | 80.1 | 120.1 |
| 192 | 17.1 | 13.1 | 19.7 |



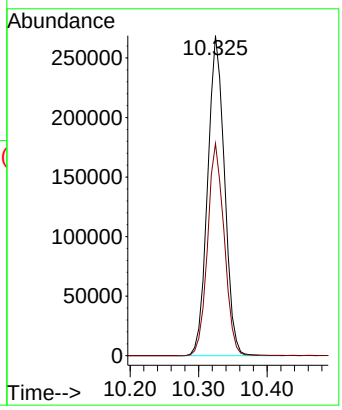


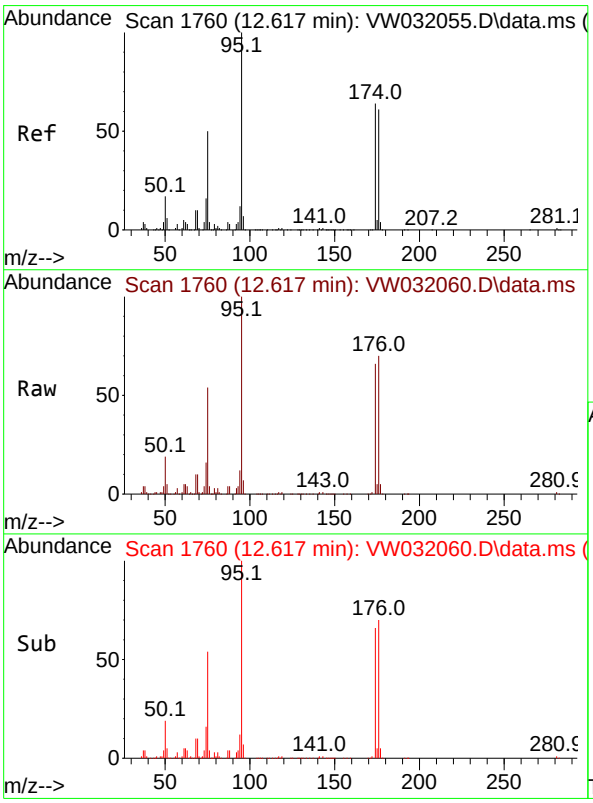

#50
Toluene-d8
Concen: 49.095 ug/l
RT: 10.325 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032060.D
Acq: 11 Aug 2025 12:18

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBL01

Tgt Ion: 98 Resp: 459644

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.4 | 51.1 | 76.7 |

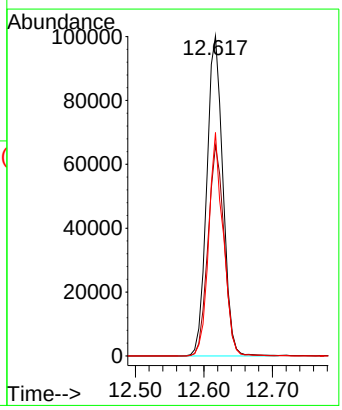


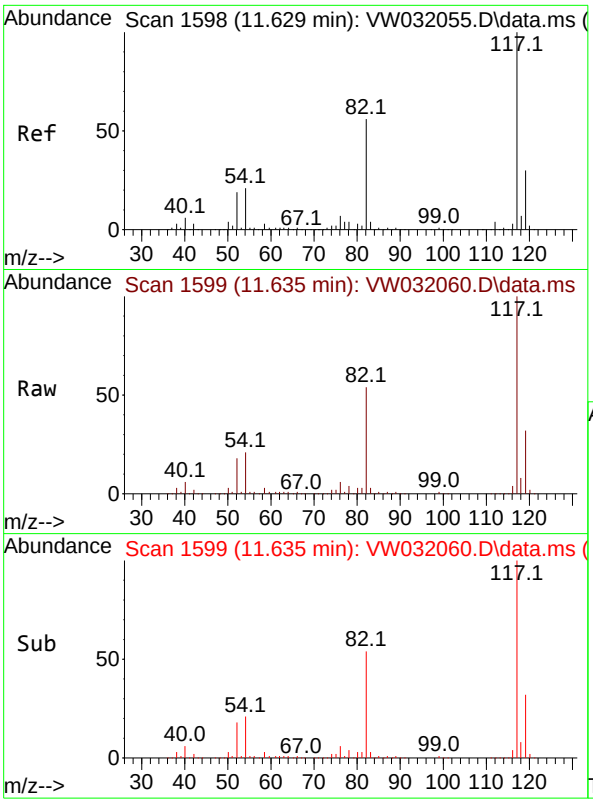




#62
4-Bromofluorobenzene
Concen: 47.413 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032060.D
Acq: 11 Aug 2025 12:18

Tgt Ion: 95 Resp: 163583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 66.1 | 0.0 | 129.0 |
| 176 | 62.9 | 0.0 | 124.6 |



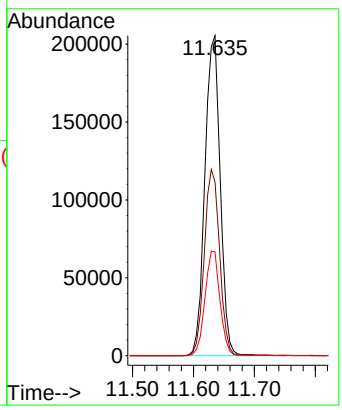


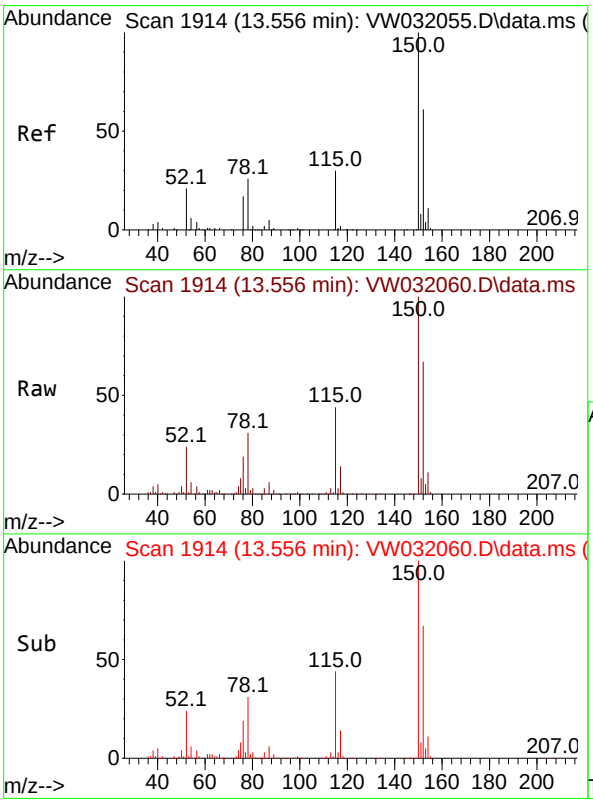

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032060.D
Acq: 11 Aug 2025 12:18

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBL01

Tgt Ion:117 Resp: 359327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.3 | 45.0 | 67.4 |
| 119 | 32.5 | 24.2 | 36.4 |

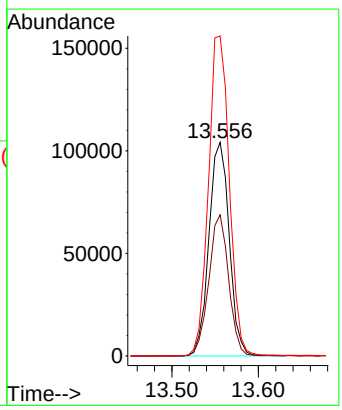



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032060.D
Acq: 11 Aug 2025 12:18

Tgt Ion:152 Resp: 169733

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 64.8 | 32.6 | 97.8 |
| 150 | 154.1 | 0.0 | 359.4 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032060.D
Acq On : 11 Aug 2025 12:18
Operator : SY/MD
Sample : VW0811SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Title : SW846 8260

Signal : TIC: VW032060.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.954 | 490 | 503 | 518 | rBV2 | 16589 | 63163 | 5.21% | 0.961% |
| 2 | 5.972 | 659 | 670 | 681 | rVB2 | 9721 | 31421 | 2.59% | 0.478% |
| 3 | 7.898 | 976 | 986 | 991 | rBV | 167472 | 401435 | 33.08% | 6.106% |
| 4 | 7.959 | 991 | 996 | 1010 | rVB | 271374 | 586043 | 48.30% | 8.914% |
| 5 | 8.319 | 1045 | 1055 | 1066 | rBV | 163414 | 363364 | 29.95% | 5.527% |
| 6 | 8.849 | 1133 | 1142 | 1159 | rBV | 459336 | 918657 | 75.71% | 13.974% |
| 7 | 9.892 | 1306 | 1313 | 1323 | rBV2 | 10139 | 21637 | 1.78% | 0.329% |
| 8 | 10.325 | 1376 | 1384 | 1404 | rVB | 703087 | 1213427 | 100.00% | 18.457% |
| 9 | 11.629 | 1589 | 1598 | 1606 | rBV | 636844 | 1115847 | 91.96% | 16.973% |
| 10 | 12.617 | 1752 | 1760 | 1772 | rBV | 460896 | 742846 | 61.22% | 11.299% |
| 11 | 13.556 | 1907 | 1914 | 1925 | rBV | 646925 | 1060143 | 87.37% | 16.126% |
| 12 | 14.062 | 1990 | 1997 | 2003 | rBV2 | 19087 | 31499 | 2.60% | 0.479% |
| 13 | 15.476 | 2223 | 2229 | 2235 | rVB | 14627 | 24703 | 2.04% | 0.376% |

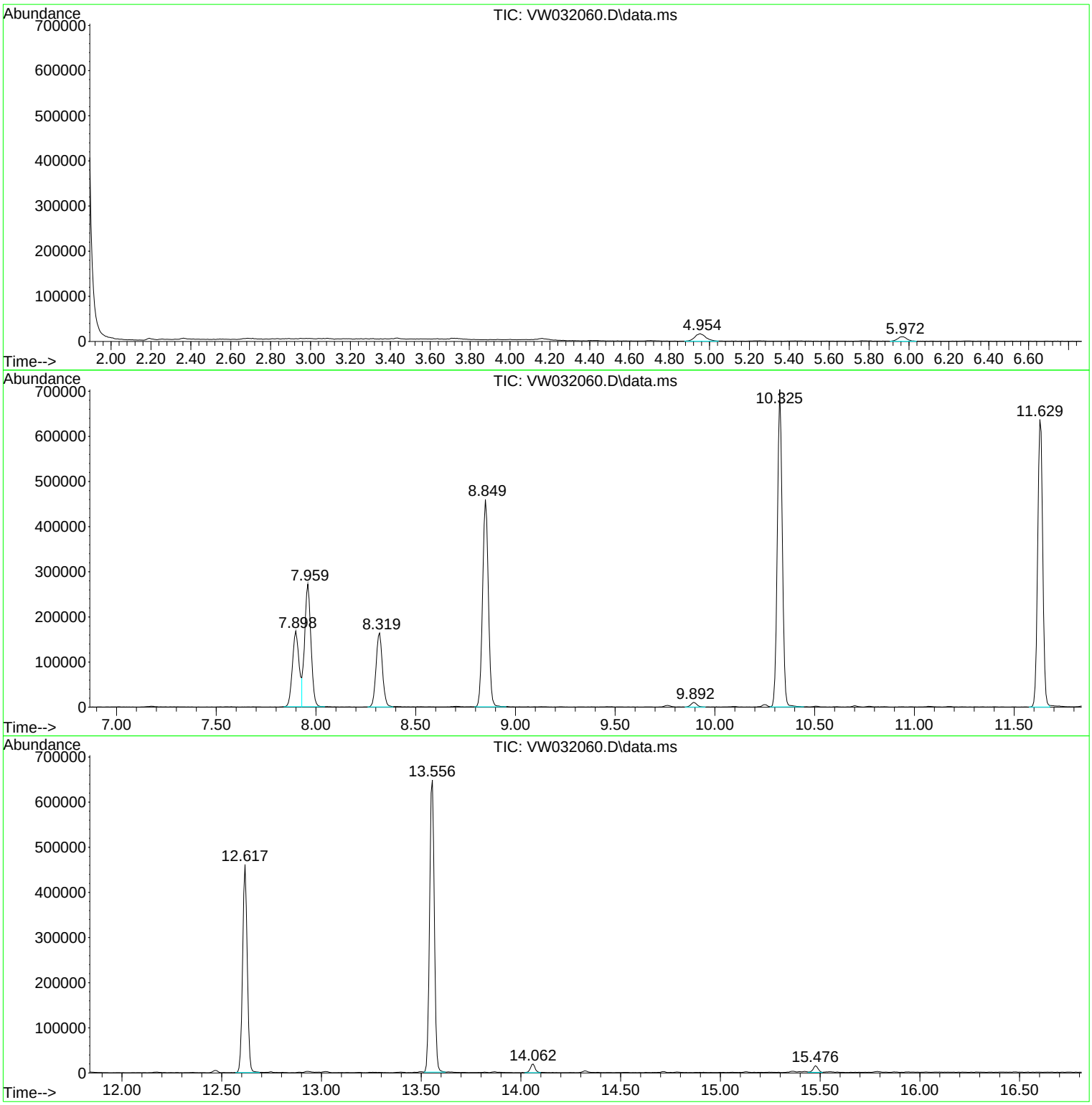
Sum of corrected areas: 6574185

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032060.D
Acq On : 11 Aug 2025 12:18
Operator : SY/MD
Sample : VW0811SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032060.D
Acq On : 11 Aug 2025 12:18
Operator : SY/MD
Sample : VW0811SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
**********

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032060.D
Acq On : 11 Aug 2025 12:18
Operator : SY/MD
Sample : VW0811SBL01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | |
|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | |
| Project: | USACE018-44 DOD | Date Received: | |
| Client Sample ID: | VY0813SBL01 | SDG No.: | Q2819 |
| Lab Sample ID: | VY0813SBL01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023060.D | 1 | 08/13/25 10:39 | VY081325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/Kg |
| 74-87-3 | Chloromethane | 2.50 | U | 1.10 | 2.50 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 2.50 | U | 0.79 | 2.50 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 2.50 | U | 1.30 | 2.50 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 4.00 | U | 1.20 | 4.00 | 5.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 2.50 | U | 1.10 | 2.50 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 2.50 | U | 1.00 | 2.50 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 20.0 | U | 4.70 | 20.0 | 25.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 2.50 | U | 0.73 | 2.50 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 4.00 | U | 1.50 | 4.00 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 8.00 | U | 3.50 | 8.00 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 2.50 | U | 0.86 | 2.50 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 2.50 | U | 0.80 | 2.50 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 2.50 | U | 0.79 | 2.50 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 20.0 | U | 6.50 | 20.0 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 2.50 | U | 0.97 | 2.50 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 2.50 | U | 0.75 | 2.50 | 5.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 4.00 | U | 1.20 | 4.00 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 4.00 | U | 0.84 | 4.00 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 2.50 | U | 0.93 | 2.50 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 2.50 | U | 0.91 | 2.50 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 2.50 | U | 0.79 | 2.50 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 2.50 | U | 0.79 | 2.50 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 2.50 | U | 0.81 | 2.50 | 5.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 2.50 | U | 0.91 | 2.50 | 5.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 2.50 | U | 0.78 | 2.50 | 5.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 12.5 | U | 3.60 | 12.5 | 25.0 | ug/Kg |
| 108-88-3 | Toluene | 2.50 | U | 0.78 | 2.50 | 5.00 | ug/Kg |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | |
| Project: | USACE018-44 DOD | Date Received: | |
| Client Sample ID: | VY0813SBL01 | SDG No.: | Q2819 |
| Lab Sample ID: | VY0813SBL01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023060.D | 1 | 08/13/25 10:39 | VY081325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 2.50 | U | 0.65 | 2.50 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 2.50 | U | 0.62 | 2.50 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 2.50 | U | 0.92 | 2.50 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 12.5 | U | 3.70 | 12.5 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 2.50 | U | 0.87 | 2.50 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 2.50 | U | 0.88 | 2.50 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 2.50 | U | 1.10 | 2.50 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 2.50 | U | 0.91 | 2.50 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 2.50 | U | 0.67 | 2.50 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 5.00 | U | 1.20 | 5.00 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 2.50 | U | 0.82 | 2.50 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 2.50 | U | 0.71 | 2.50 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 2.50 | U | 0.86 | 2.50 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 2.50 | U | 0.78 | 2.50 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 2.50 | U | 1.20 | 2.50 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 2.50 | U | 1.70 | 2.50 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 2.50 | U | 1.60 | 2.50 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 2.50 | U | 1.50 | 2.50 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 4.00 | U | 1.80 | 4.00 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.00 | U | 3.00 | 4.00 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 4.00 | U | 3.20 | 4.00 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 57.2 | | 71 - 136 | | 114% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 53.5 | | 78 - 119 | | 107% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 47.4 | | 85 - 116 | | 95% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 47.2 | | 79 - 119 | | 94% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 553000 | 7.707 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 1080000 | 8.609 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 906000 | 11.414 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 385000 | 13.34 | | | | |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | |
| Project: | USACE018-44 DOD | Date Received: | |
| Client Sample ID: | VY0813SBL01 | SDG No.: | Q2819 |
| Lab Sample ID: | VY0813SBL01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023060.D | 1 | 08/13/25 10:39 | VY081325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023060.D
Acq On : 13 Aug 2025 10:39
Operator : SY/MD
Sample : VY0813SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBL01

Quant Time: Aug 14 01:20:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

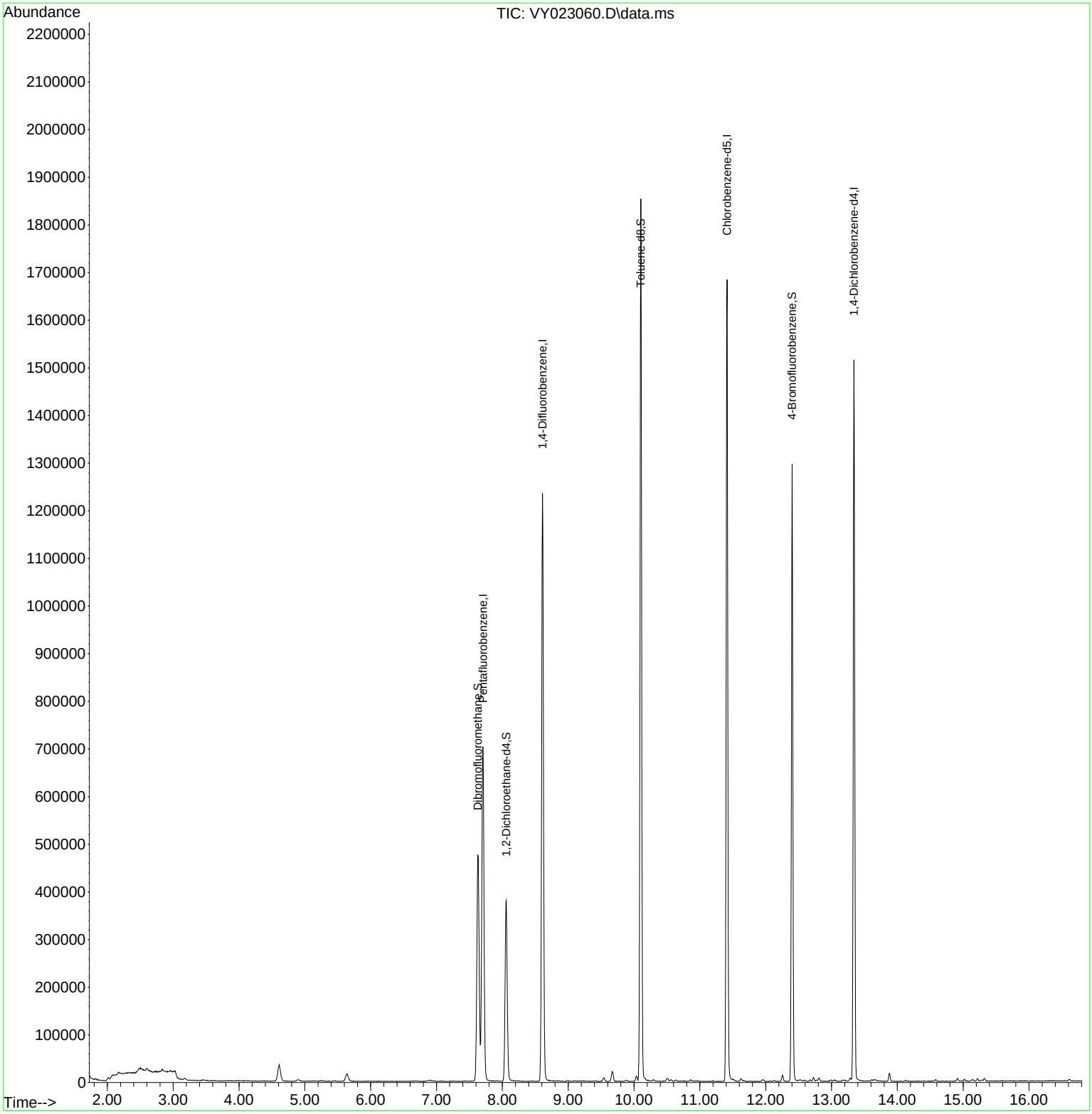
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 552605 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.609 | 114 | 1076478 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 906449 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 384760 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 301370 | 57.222 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 114.440% | | | |
| 35) Dibromofluoromethane | 7.628 | 113 | 344686 | 53.512 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 107.020% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 1193438 | 47.427 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 94.860% | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 382126 | 47.220 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 94.440% | | | |
| Target Compounds | | | | | | Qvalue |

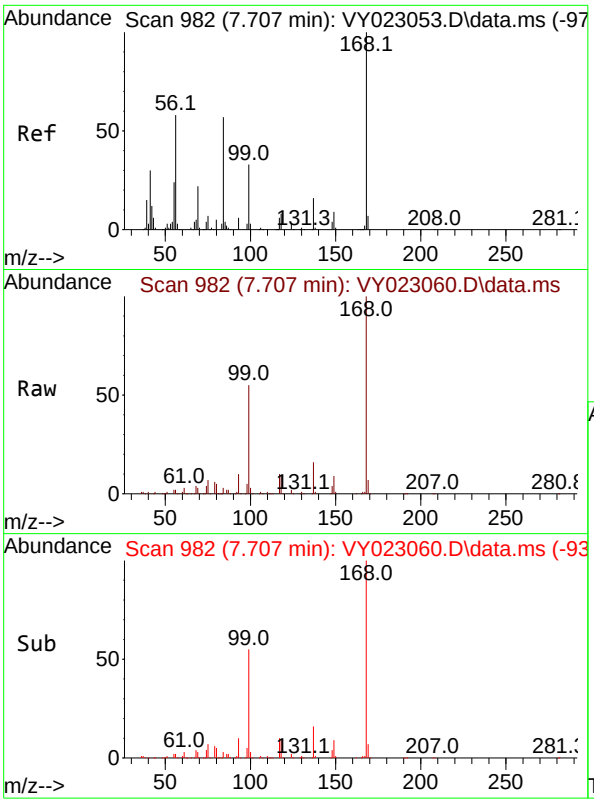
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023060.D
Acq On : 13 Aug 2025 10:39
Operator : SY/MD
Sample : VY0813SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBL01

Quant Time: Aug 14 01:20:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



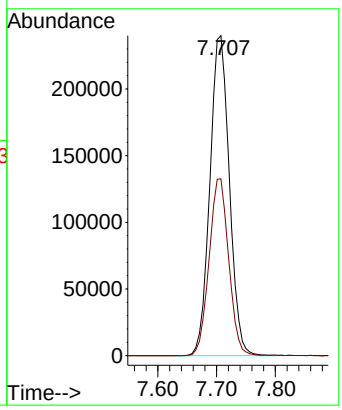


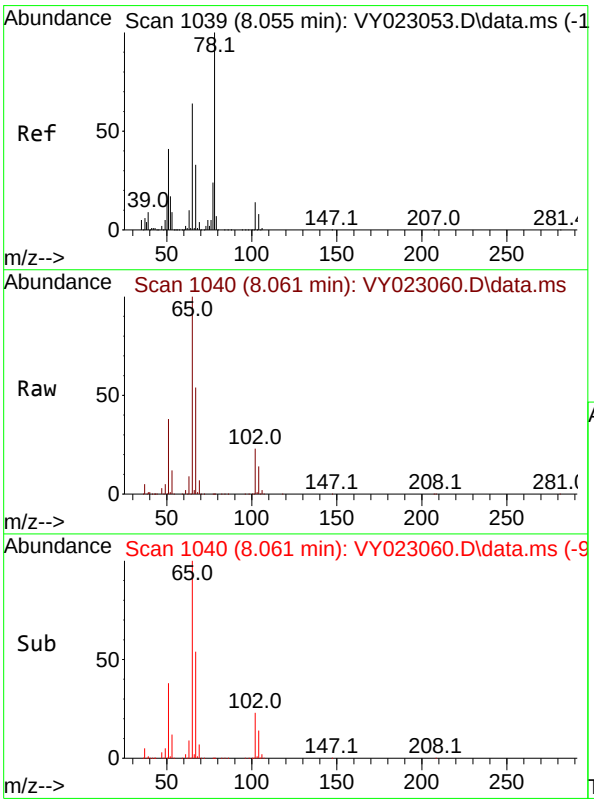

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023060.D
Acq: 13 Aug 2025 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBL01

Tgt Ion:168 Resp: 552605

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 55.3 | 42.8 | 64.2 |

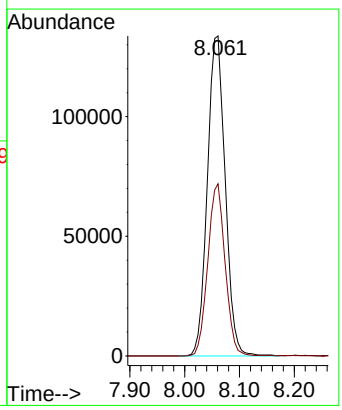


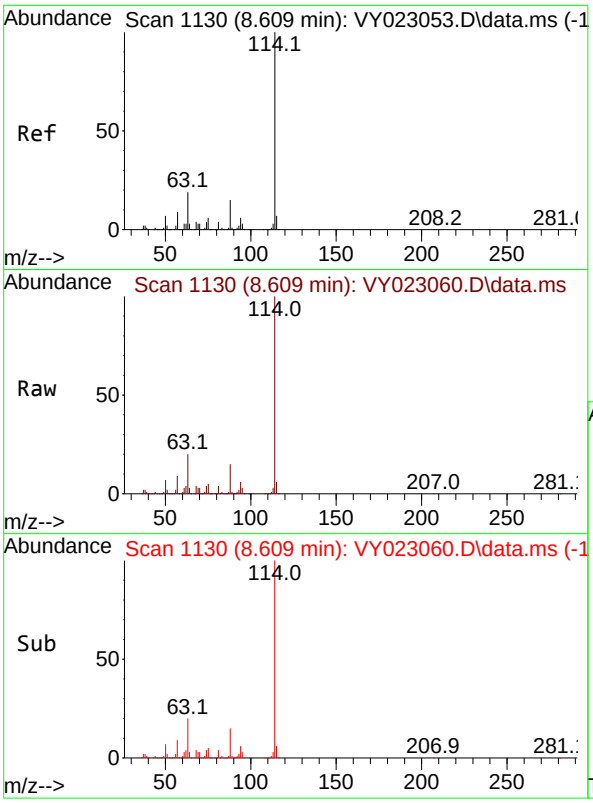




#33
1,2-Dichloroethane-d4
Concen: 57.222 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY023060.D
Acq: 13 Aug 2025 10:39

Tgt Ion: 65 Resp: 301370

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.2 | 0.0 | 106.8 |



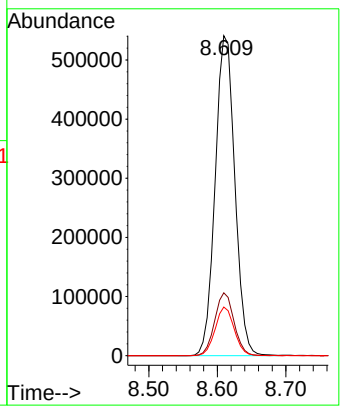


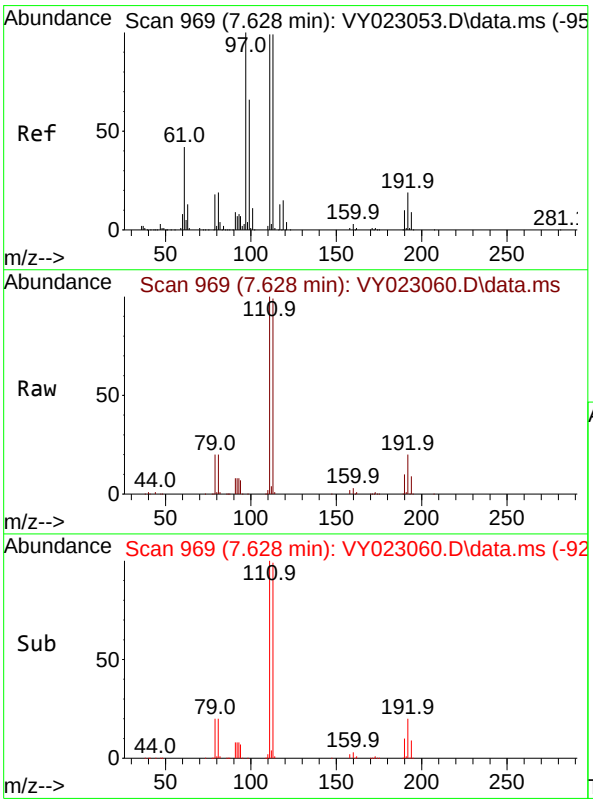

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY023060.D
Acq: 13 Aug 2025 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBL01

Tgt Ion:114 Resp: 1076478

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.7 | 0.0 | 38.4 |
| 88 | 15.2 | 0.0 | 30.0 |

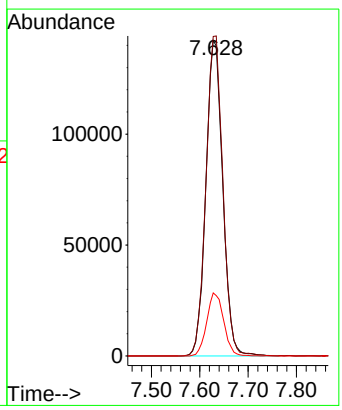


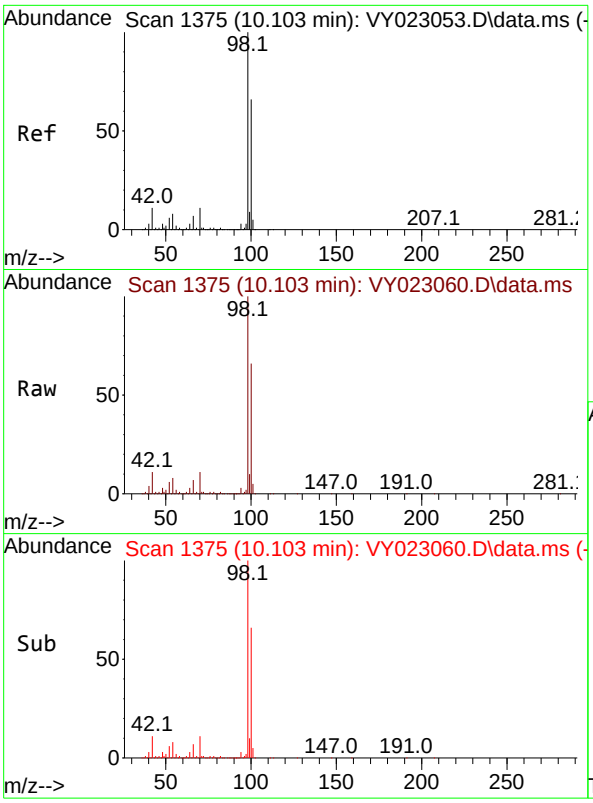




#35
Dibromofluoromethane
Concen: 53.512 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.000 min
Lab File: VY023060.D
Acq: 13 Aug 2025 10:39

Tgt Ion:113 Resp: 344686

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.7 | 81.1 | 121.7 |
| 192 | 20.1 | 16.2 | 24.4 |



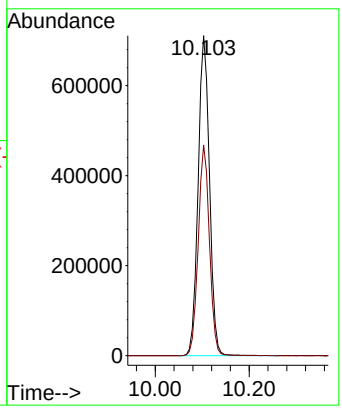


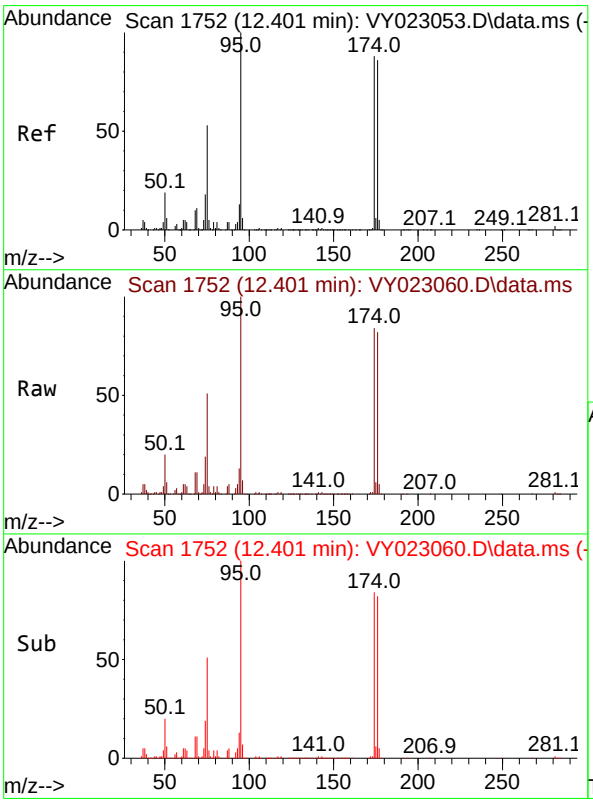

#50
Toluene-d8
Concen: 47.427 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023060.D
Acq: 13 Aug 2025 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBL01

Tgt Ion: 98 Resp: 1193438

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.0 | 52.3 | 78.5 |

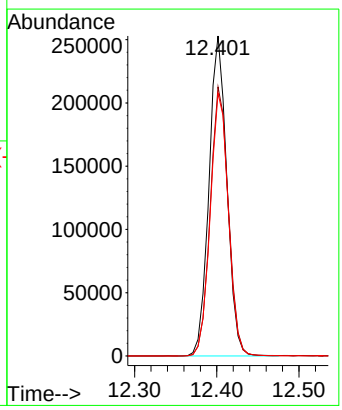


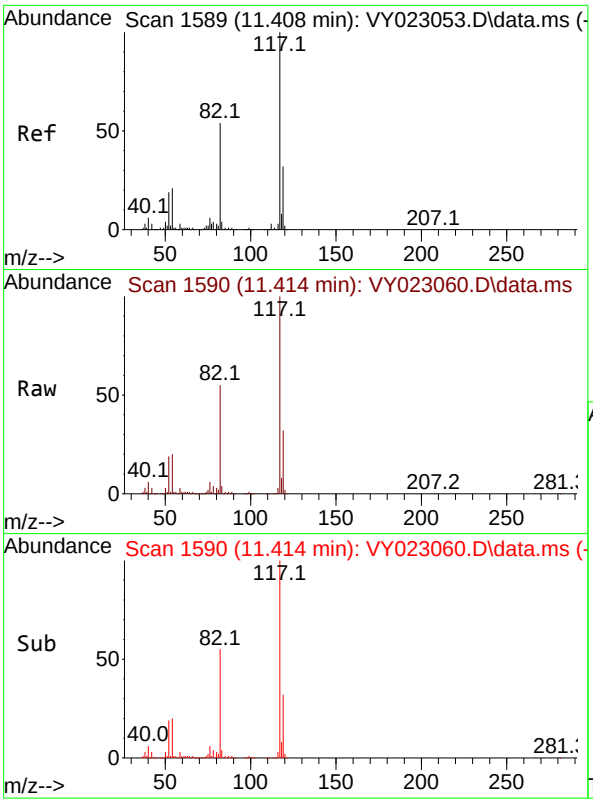




#62
4-Bromofluorobenzene
Concen: 47.220 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023060.D
Acq: 13 Aug 2025 10:39

Tgt Ion: 95 Resp: 382126

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 85.4 | 0.0 | 171.6 |
| 176 | 83.5 | 0.0 | 167.6 |



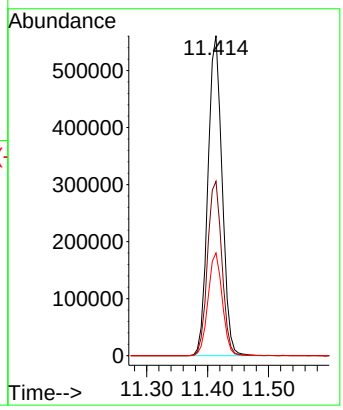


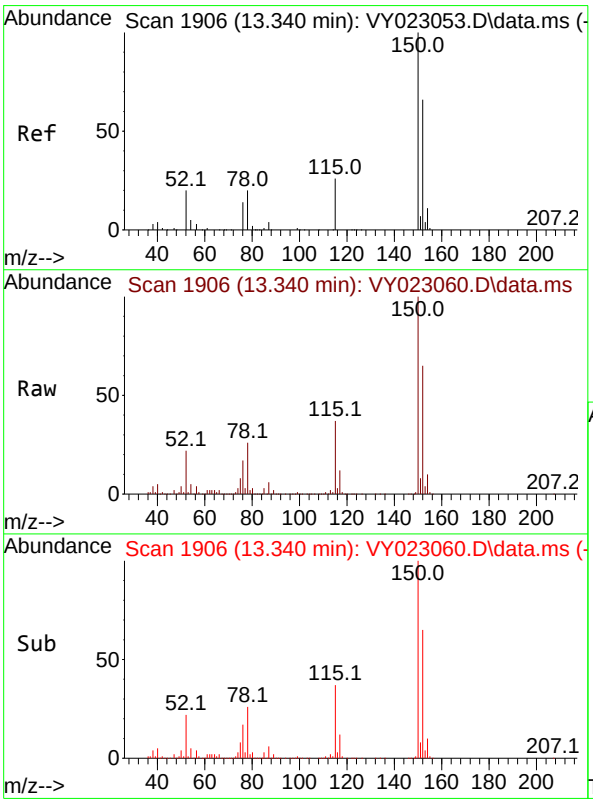

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023060.D
Acq: 13 Aug 2025 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBL01

Tgt Ion:117 Resp: 906449

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.5 | 43.4 | 65.0 |
| 119 | 32.1 | 25.6 | 38.4 |

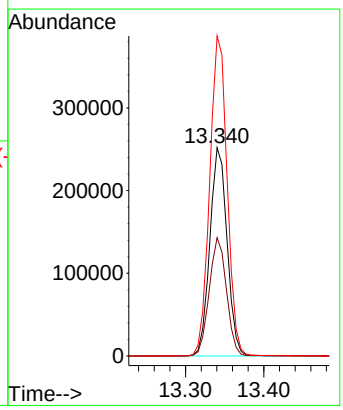



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023060.D
Acq: 13 Aug 2025 10:39

Tgt Ion:152 Resp: 384760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.0 | 28.2 | 84.6 |
| 150 | 154.9 | 0.0 | 348.0 |



Sample Results: **VY023060.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023060.D
Acq On : 13 Aug 2025 10:39
Operator : SY/MD
Sample : VY0813SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Title : SW846 8260

Signal : TIC: VY023060.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.610 | 460 | 474 | 487 | rBV2 | 34580 | 104742 | 3.37% | 0.636% |
| 2 | 5.640 | 635 | 643 | 656 | rVB3 | 15405 | 46628 | 1.50% | 0.283% |
| 3 | 7.628 | 956 | 969 | 975 | rBV | 475389 | 1140030 | 36.69% | 6.919% |
| 4 | 7.707 | 975 | 982 | 993 | rVB | 699827 | 1632393 | 52.53% | 9.907% |
| 5 | 8.061 | 1029 | 1040 | 1053 | rBV | 379448 | 856851 | 27.57% | 5.200% |
| 6 | 8.609 | 1121 | 1130 | 1147 | rBV | 1234186 | 2446113 | 78.72% | 14.846% |
| 7 | 9.670 | 1296 | 1304 | 1310 | rBV | 20757 | 43533 | 1.40% | 0.264% |
| 8 | 10.103 | 1368 | 1375 | 1386 | rVV | 1849845 | 3107473 | 100.00% | 18.859% |
| 9 | 11.414 | 1582 | 1590 | 1601 | rBV | 1682767 | 2780366 | 89.47% | 16.874% |
| 10 | 12.401 | 1744 | 1752 | 1765 | rBV | 1295824 | 1999161 | 64.33% | 12.133% |
| 11 | 13.340 | 1899 | 1906 | 1921 | rVB | 1512766 | 2319733 | 74.65% | 14.079% |

Sum of corrected areas: 16477023

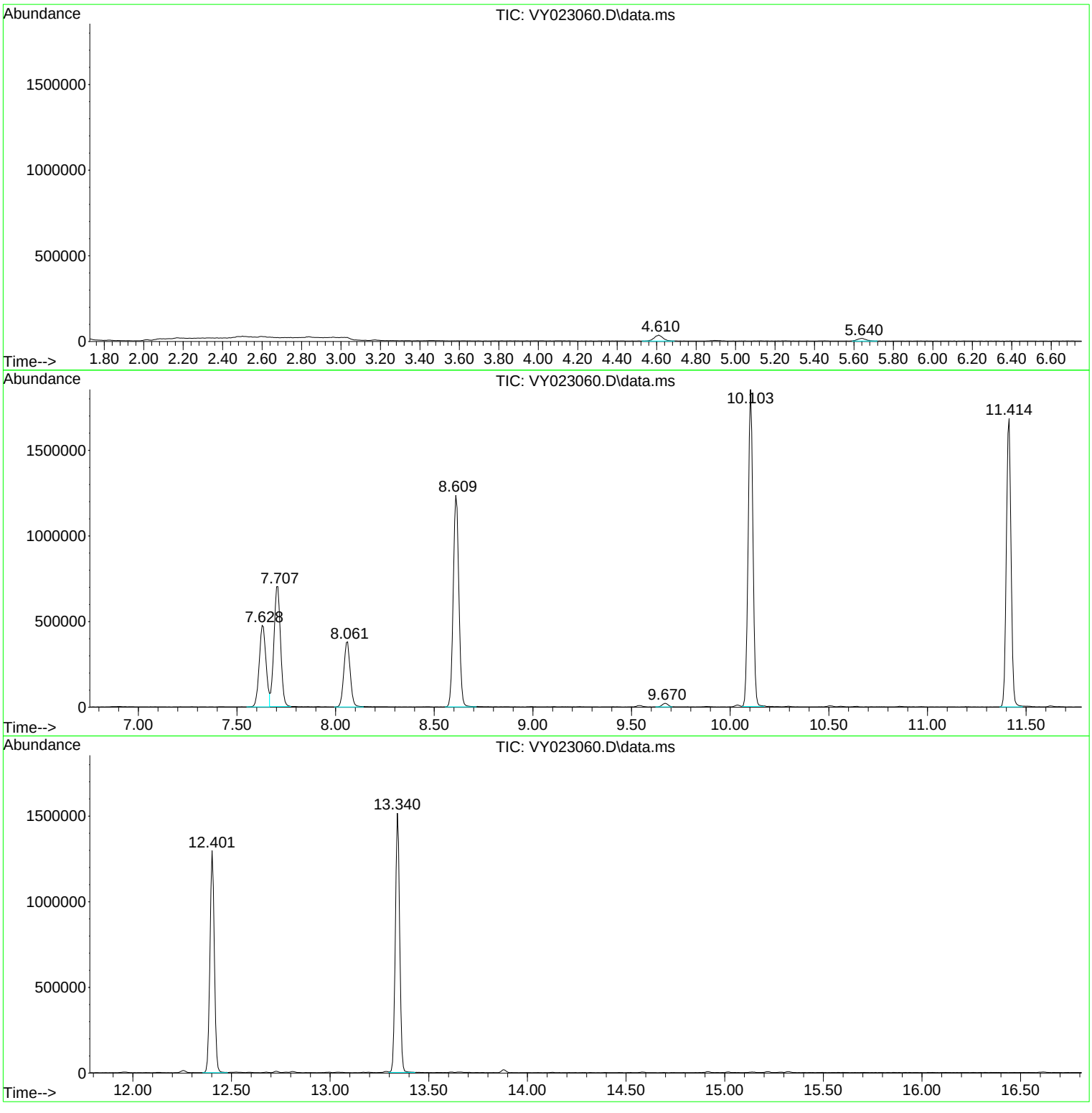
Sample Results: **VY023060.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023060.D
Acq On : 13 Aug 2025 10:39
Operator : SY/MD
Sample : VY0813SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023060.D
Acq On : 13 Aug 2025 10:39
Operator : SY/MD
Sample : VY0813SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
**********

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023060.D
Acq On : 13 Aug 2025 10:39
Operator : SY/MD
Sample : VY0813SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | |
| Project: | USACE018-44 DOD | Date Received: | |
| Client Sample ID: | VY0814SBL01 | SDG No.: | Q2819 |
| Lab Sample ID: | VY0814SBL01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023085.D | 1 | 08/14/25 10:50 | VY081425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/Kg |
| 74-87-3 | Chloromethane | 2.50 | U | 1.10 | 2.50 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 2.50 | U | 0.79 | 2.50 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 2.50 | U | 1.30 | 2.50 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 4.00 | U | 1.20 | 4.00 | 5.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 2.50 | U | 1.10 | 2.50 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 2.50 | U | 1.00 | 2.50 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 20.0 | U | 4.70 | 20.0 | 25.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 2.50 | U | 0.73 | 2.50 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 4.00 | U | 1.50 | 4.00 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 8.00 | U | 3.50 | 8.00 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 2.50 | U | 0.86 | 2.50 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 2.50 | U | 0.80 | 2.50 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 2.50 | U | 0.79 | 2.50 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 20.0 | U | 6.50 | 20.0 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 2.50 | U | 0.97 | 2.50 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 2.50 | U | 0.75 | 2.50 | 5.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 4.00 | U | 1.20 | 4.00 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 4.00 | U | 0.84 | 4.00 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 2.50 | U | 0.93 | 2.50 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 2.50 | U | 0.91 | 2.50 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 2.50 | U | 0.79 | 2.50 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 2.50 | U | 0.79 | 2.50 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 2.50 | U | 0.81 | 2.50 | 5.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 2.50 | U | 0.91 | 2.50 | 5.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 2.50 | U | 0.78 | 2.50 | 5.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 12.5 | U | 3.60 | 12.5 | 25.0 | ug/Kg |
| 108-88-3 | Toluene | 2.50 | U | 0.78 | 2.50 | 5.00 | ug/Kg |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | |
| Project: | USACE018-44 DOD | Date Received: | |
| Client Sample ID: | VY0814SBL01 | SDG No.: | Q2819 |
| Lab Sample ID: | VY0814SBL01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023085.D | 1 | 08/14/25 10:50 | VY081425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 2.50 | U | 0.65 | 2.50 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 2.50 | U | 0.62 | 2.50 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 2.50 | U | 0.92 | 2.50 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 12.5 | U | 3.70 | 12.5 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 2.50 | U | 0.87 | 2.50 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 2.50 | U | 0.88 | 2.50 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 2.50 | U | 1.10 | 2.50 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 2.50 | U | 0.91 | 2.50 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 2.50 | U | 0.67 | 2.50 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 5.00 | U | 1.20 | 5.00 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 2.50 | U | 0.82 | 2.50 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 2.50 | U | 0.71 | 2.50 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 2.50 | U | 0.86 | 2.50 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 2.50 | U | 0.78 | 2.50 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 2.50 | U | 1.20 | 2.50 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 2.50 | U | 1.70 | 2.50 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 2.50 | U | 1.60 | 2.50 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 2.50 | U | 1.50 | 2.50 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 4.00 | U | 1.80 | 4.00 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.00 | U | 3.00 | 4.00 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 4.00 | U | 3.20 | 4.00 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 57.9 | | 71 - 136 | | 116% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 53.5 | | 78 - 119 | | 107% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 53.0 | | 85 - 116 | | 106% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 45.1 | | 79 - 119 | | 90% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 514000 | 7.707 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 1010000 | 8.616 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 885000 | 11.414 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 341000 | 13.346 | | | | |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | |
| Project: | USACE018-44 DOD | Date Received: | |
| Client Sample ID: | VY0814SBL01 | SDG No.: | Q2819 |
| Lab Sample ID: | VY0814SBL01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023085.D | 1 | 08/14/25 10:50 | VY081425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023085.D
Acq On : 14 Aug 2025 10:50
Operator : SY/MD
Sample : VY0814SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBL01

Quant Time: Aug 14 14:46:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

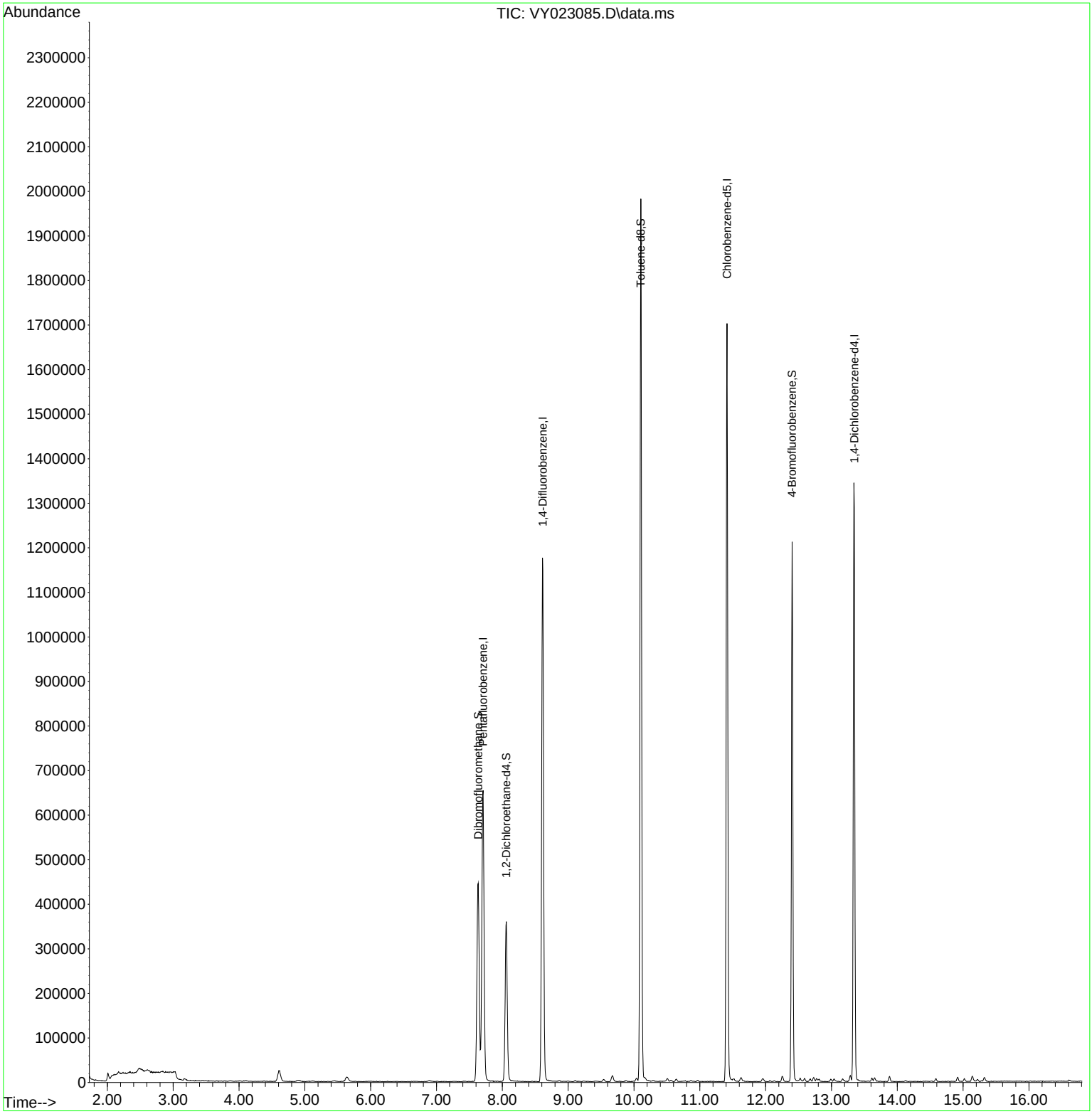
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 514218 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 1013413 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 885359 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 340788 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 283810 | 57.910 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 115.820% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 324298 | 53.480 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 106.960% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 1256505 | 53.041 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 106.080% | | | |
| 62) 4-Bromofluorobenzene | 12.402 | 95 | 343286 | 45.060 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 90.120% | | | |
| Target Compounds | | | | | | Qvalue |

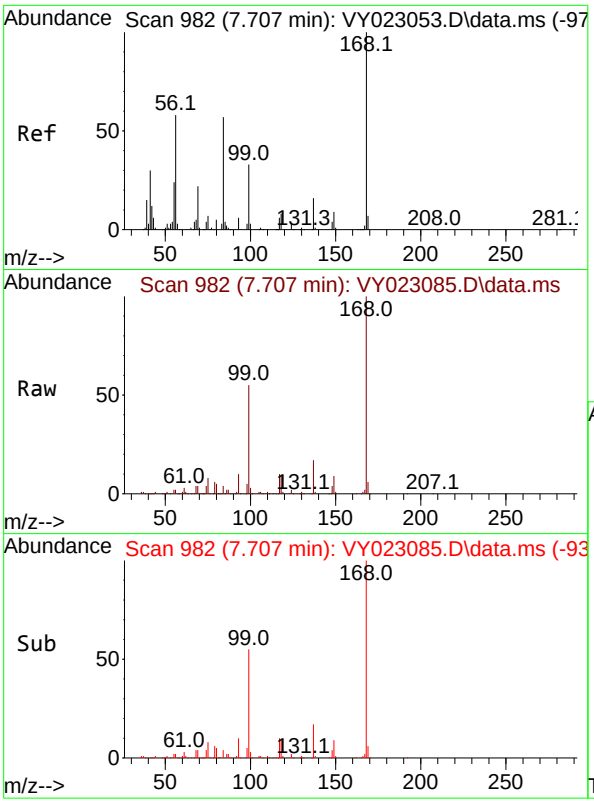
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023085.D
Acq On : 14 Aug 2025 10:50
Operator : SY/MD
Sample : VY0814SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBL01

Quant Time: Aug 14 14:46:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



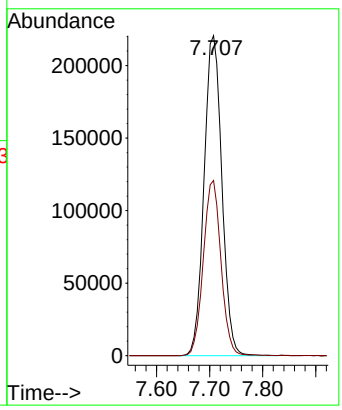


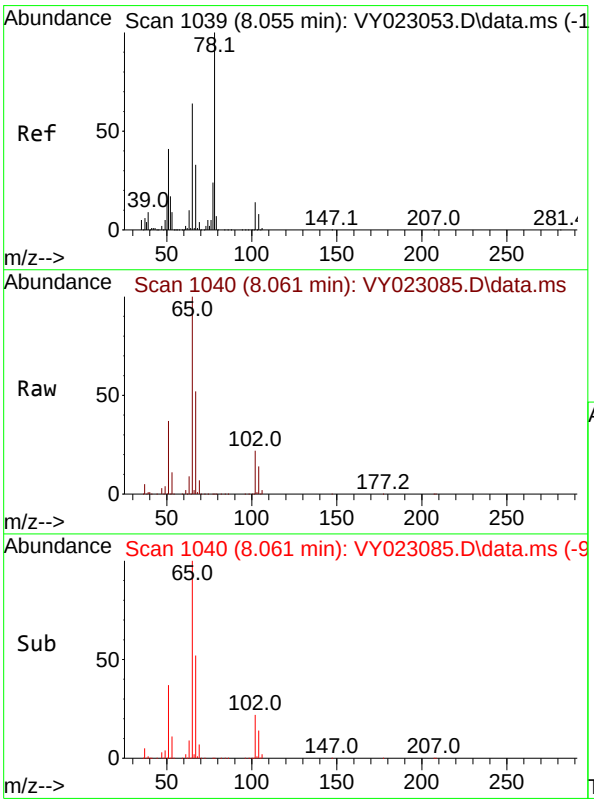

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023085.D
Acq: 14 Aug 2025 10:50

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBL01

Tgt Ion:168 Resp: 514218

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 54.8 | 42.8 | 64.2 |

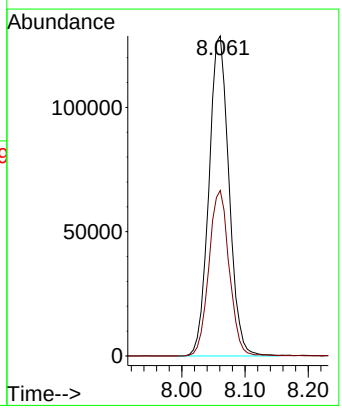


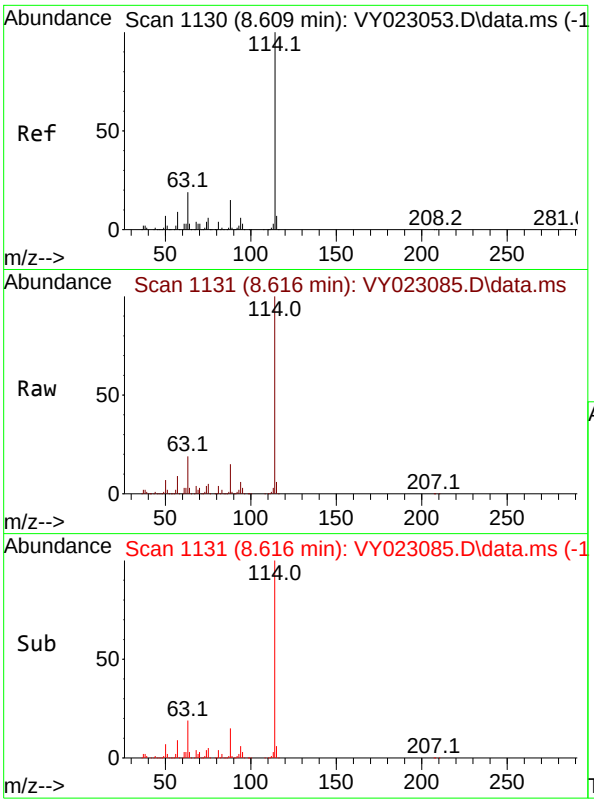




#33
1,2-Dichloroethane-d4
Concen: 57.910 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY023085.D
Acq: 14 Aug 2025 10:50

Tgt Ion: 65 Resp: 283810

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.3 | 0.0 | 106.8 |



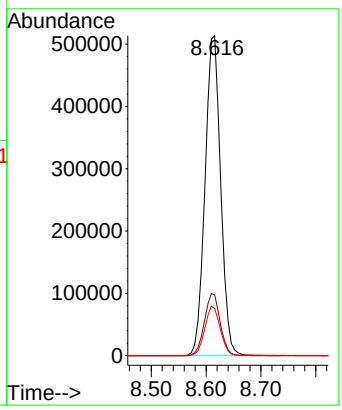


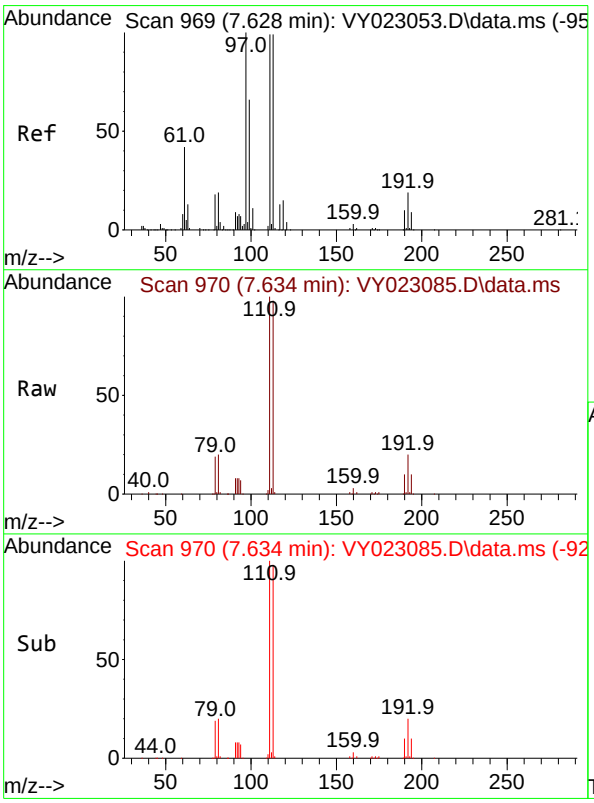

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023085.D
Acq: 14 Aug 2025 10:50

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBL01

Tgt Ion:114 Resp: 1013413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.0 | 0.0 | 38.4 |
| 88 | 14.7 | 0.0 | 30.0 |

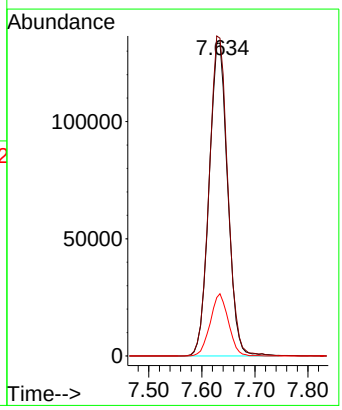


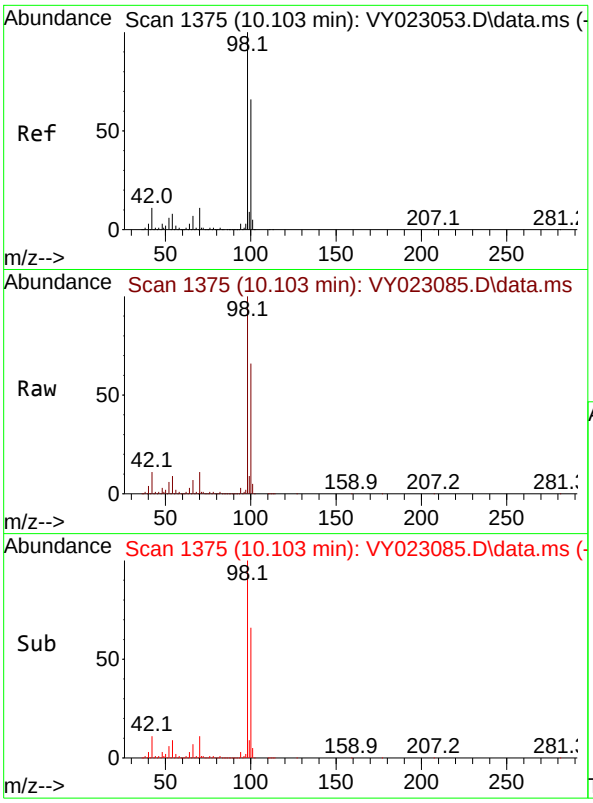




#35
Dibromofluoromethane
Concen: 53.480 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.006 min
Lab File: VY023085.D
Acq: 14 Aug 2025 10:50

Tgt Ion:113 Resp: 324298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.8 | 81.1 | 121.7 |
| 192 | 19.5 | 16.2 | 24.4 |



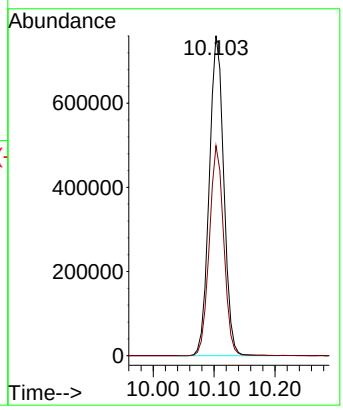


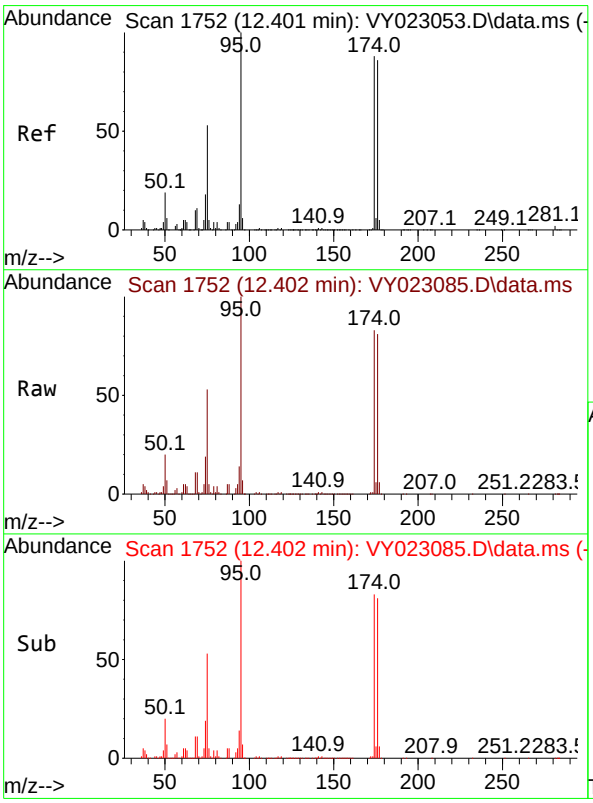

#50
Toluene-d8
Concen: 53.041 ug/l
RT: 10.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023085.D
Acq: 14 Aug 2025 10:50

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBL01

Tgt Ion: 98 Resp: 1256505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.2 | 52.3 | 78.5 |

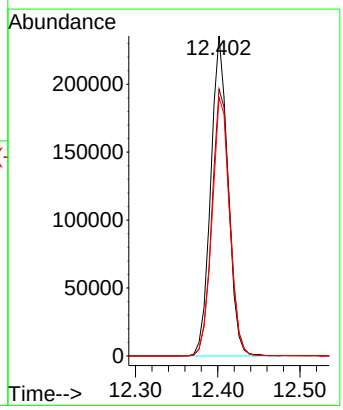


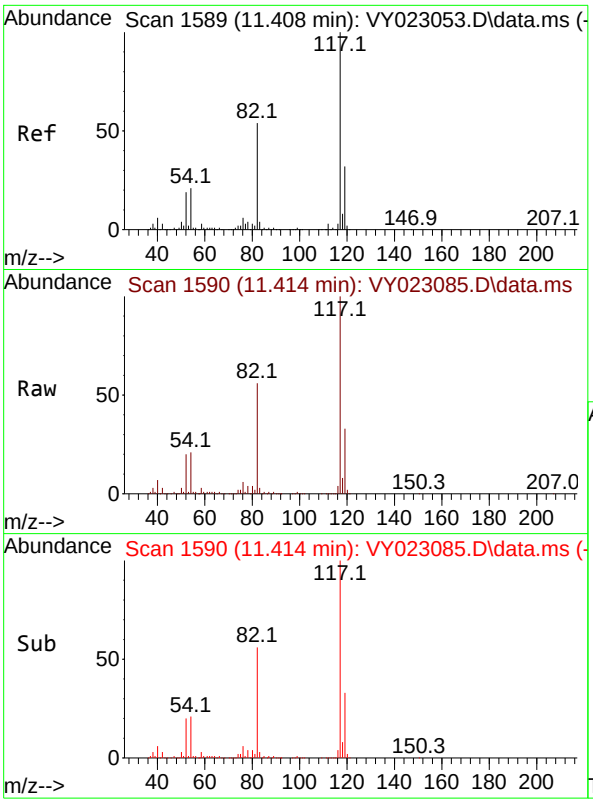




#62
4-Bromofluorobenzene
Concen: 45.060 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023085.D
Acq: 14 Aug 2025 10:50

Tgt Ion: 95 Resp: 343286

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 86.0 | 0.0 | 171.6 |
| 176 | 82.4 | 0.0 | 167.6 |



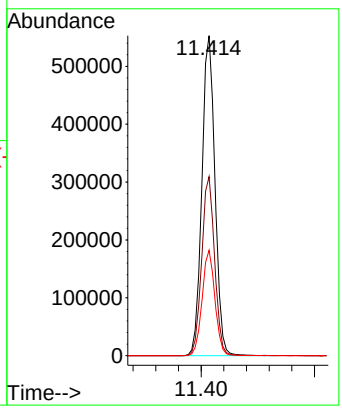


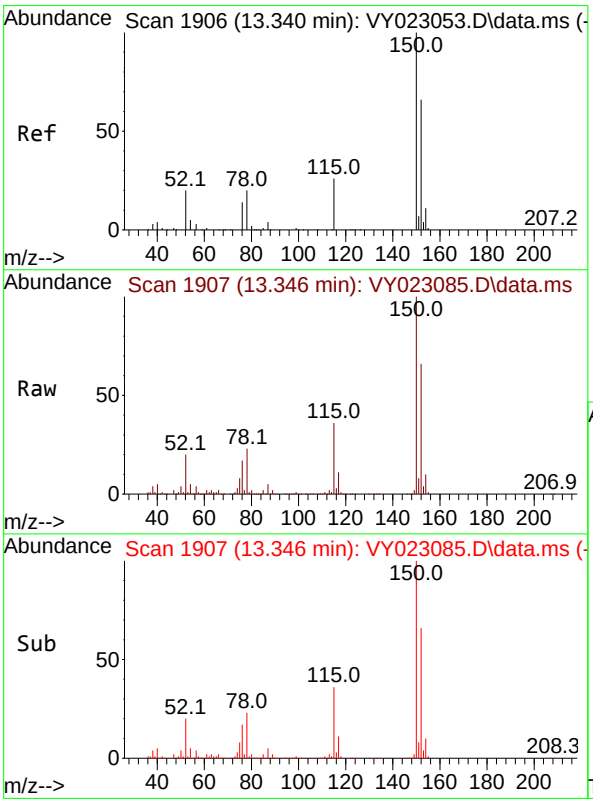

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023085.D
Acq: 14 Aug 2025 10:50

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBL01

Tgt Ion:117 Resp: 885359

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 55.9 | 43.4 | 65.0 |
| 119 | 33.0 | 25.6 | 38.4 |

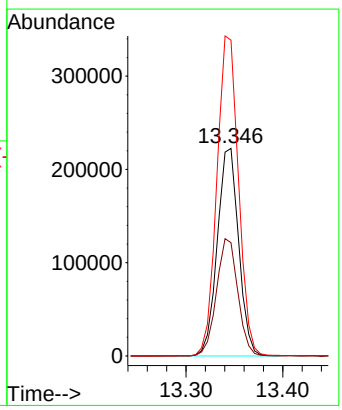



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023085.D
Acq: 14 Aug 2025 10:50

Tgt Ion:152 Resp: 340788

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 56.6 | 28.2 | 84.6 |
| 150 | 155.5 | 0.0 | 348.0 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023085.D
Acq On : 14 Aug 2025 10:50
Operator : SY/MD
Sample : VY0814SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Title : SW846 8260

Signal : TIC: VY023085.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.007 | 40 | 47 | 53 | rBV | 17742 | 35695 | 1.09% | 0.227% |
| 2 | 4.616 | 465 | 475 | 490 | rVB3 | 24109 | 75411 | 2.30% | 0.480% |
| 3 | 7.634 | 958 | 970 | 975 | rBV | 444498 | 1068603 | 32.61% | 6.796% |
| 4 | 7.707 | 975 | 982 | 1000 | rVB | 652671 | 1528545 | 46.65% | 9.720% |
| 5 | 8.061 | 1027 | 1040 | 1053 | rBV | 358564 | 805913 | 24.60% | 5.125% |
| 6 | 8.610 | 1122 | 1130 | 1142 | rBV | 1175253 | 2337917 | 71.35% | 14.867% |
| 7 | 10.103 | 1368 | 1375 | 1384 | rBV | 1978572 | 3276566 | 100.00% | 20.837% |
| 8 | 11.414 | 1582 | 1590 | 1603 | rBV | 1701540 | 2731421 | 83.36% | 17.370% |
| 9 | 12.402 | 1745 | 1752 | 1763 | rBV | 1210550 | 1800736 | 54.96% | 11.451% |
| 10 | 13.340 | 1900 | 1906 | 1916 | rVB | 1341382 | 2064301 | 63.00% | 13.127% |

Sum of corrected areas: 15725108

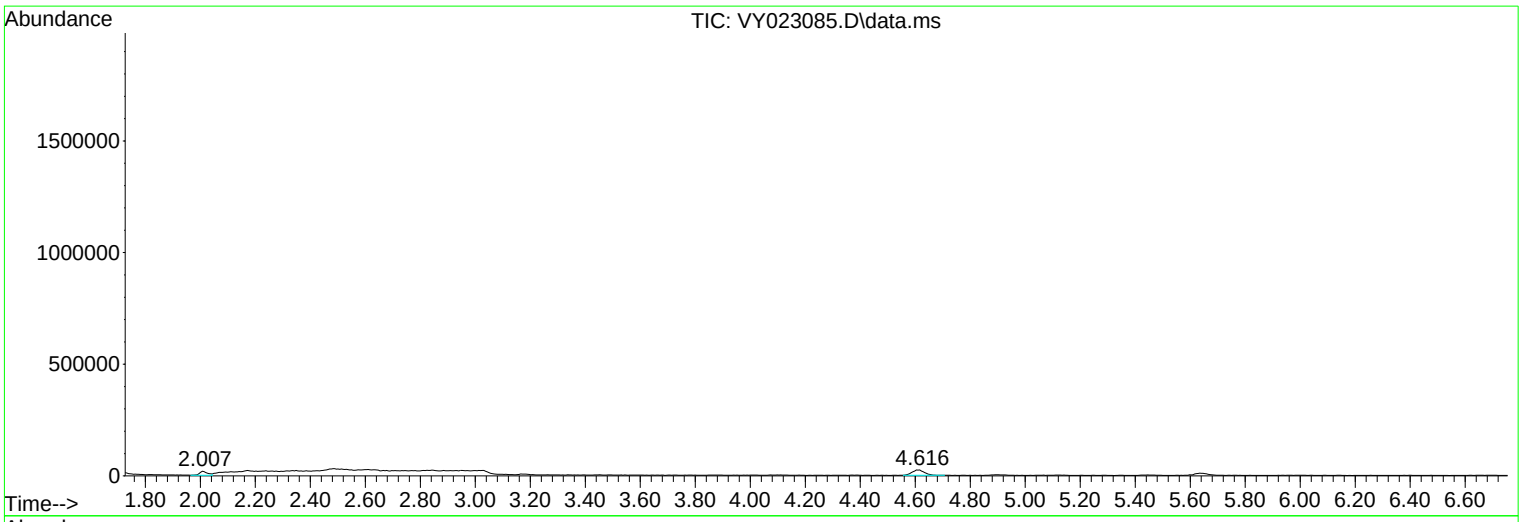
Sample Results: **VY023085.D**

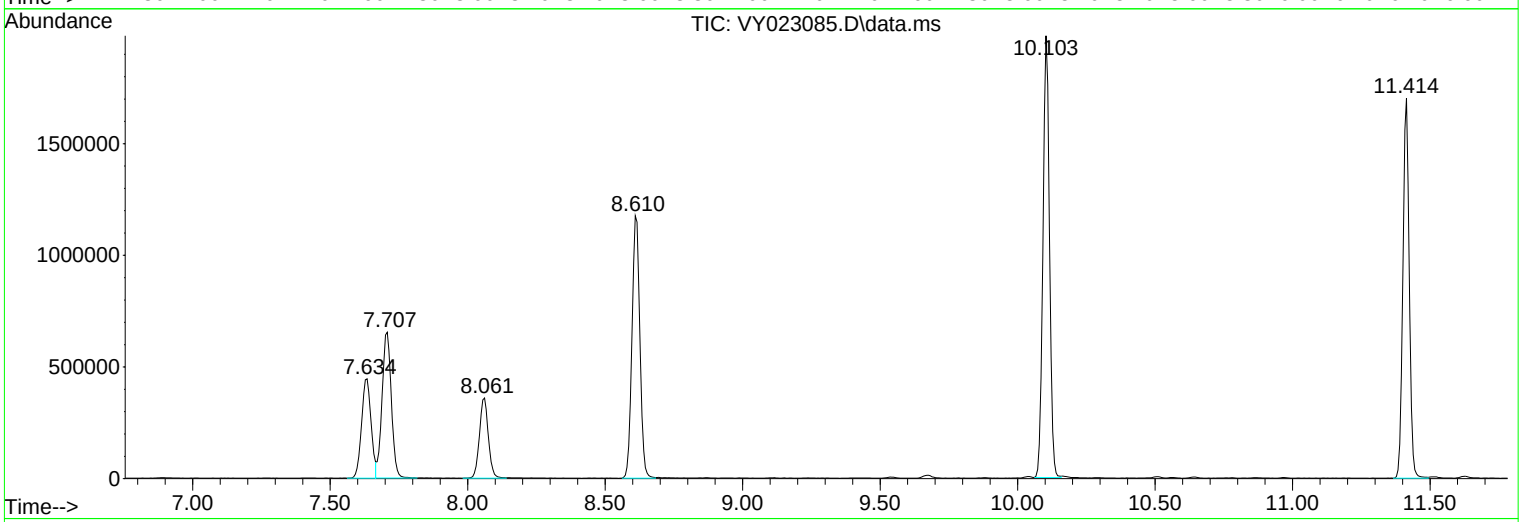
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023085.D
Acq On : 14 Aug 2025 10:50
Operator : SY/MD
Sample : VY0814SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

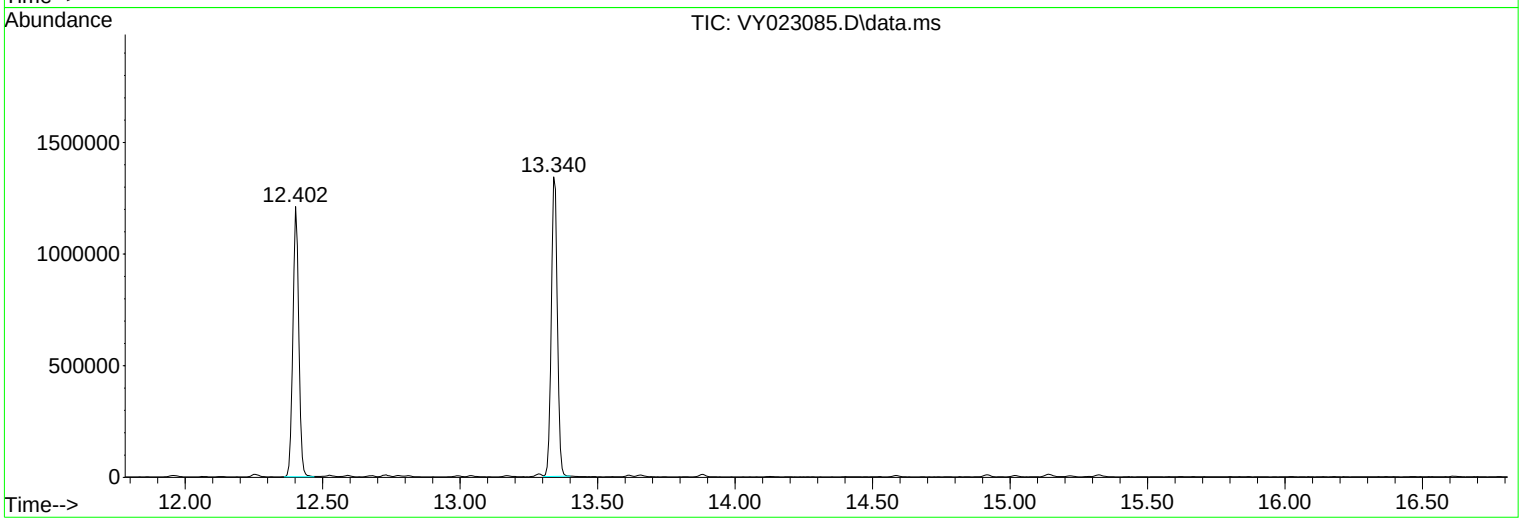
**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023085.D
Acq On : 14 Aug 2025 10:50
Operator : SY/MD
Sample : VY0814SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
**********

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023085.D
Acq On : 14 Aug 2025 10:50
Operator : SY/MD
Sample : VY0814SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | |
| Project: | USACE018-44 DOD | Date Received: | |
| Client Sample ID: | VY0819SBL01 | SDG No.: | Q2819 |
| Lab Sample ID: | VY0819SBL01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023138.D | 1 | 08/19/25 09:49 | VY081925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/Kg |
| 74-87-3 | Chloromethane | 2.50 | U | 1.10 | 2.50 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 2.50 | U | 0.79 | 2.50 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 2.50 | U | 1.30 | 2.50 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 4.00 | U | 1.20 | 4.00 | 5.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 2.50 | U | 1.10 | 2.50 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 2.50 | U | 1.00 | 2.50 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 20.0 | U | 4.70 | 20.0 | 25.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 4.00 | U | 1.10 | 4.00 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 2.50 | U | 0.73 | 2.50 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 4.00 | U | 1.50 | 4.00 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 8.00 | U | 3.50 | 8.00 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 2.50 | U | 0.86 | 2.50 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 2.50 | U | 0.80 | 2.50 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 2.50 | U | 0.79 | 2.50 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 20.0 | U | 6.50 | 20.0 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 2.50 | U | 0.97 | 2.50 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 2.50 | U | 0.75 | 2.50 | 5.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 4.00 | U | 1.20 | 4.00 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 4.00 | U | 0.84 | 4.00 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 2.50 | U | 0.93 | 2.50 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 2.50 | U | 0.91 | 2.50 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 2.50 | U | 0.79 | 2.50 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 2.50 | U | 0.79 | 2.50 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 2.50 | U | 0.81 | 2.50 | 5.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 2.50 | U | 0.91 | 2.50 | 5.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 2.50 | U | 0.78 | 2.50 | 5.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 12.5 | U | 3.60 | 12.5 | 25.0 | ug/Kg |
| 108-88-3 | Toluene | 2.50 | U | 0.78 | 2.50 | 5.00 | ug/Kg |

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | |
| Project: | USACE018-44 DOD | Date Received: | |
| Client Sample ID: | VY0819SBL01 | SDG No.: | Q2819 |
| Lab Sample ID: | VY0819SBL01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023138.D | 1 | 08/19/25 09:49 | VY081925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 2.50 | U | 0.65 | 2.50 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 2.50 | U | 0.62 | 2.50 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 2.50 | U | 0.92 | 2.50 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 12.5 | U | 3.70 | 12.5 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 2.50 | U | 0.87 | 2.50 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 2.50 | U | 0.88 | 2.50 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 2.50 | U | 1.10 | 2.50 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 2.50 | U | 0.91 | 2.50 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 2.50 | U | 0.67 | 2.50 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 5.00 | U | 1.20 | 5.00 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 2.50 | U | 0.82 | 2.50 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 2.50 | U | 0.71 | 2.50 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 2.50 | U | 0.86 | 2.50 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 2.50 | U | 0.78 | 2.50 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 2.50 | U | 1.20 | 2.50 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 2.50 | U | 1.70 | 2.50 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 2.50 | U | 1.60 | 2.50 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 2.50 | U | 1.50 | 2.50 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 4.00 | U | 1.80 | 4.00 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 4.00 | U | 3.00 | 4.00 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 4.00 | U | 3.20 | 4.00 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 53.4 | | 71 - 136 | | 107% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 52.4 | | 78 - 119 | | 105% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 51.3 | | 85 - 116 | | 103% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 49.5 | | 79 - 119 | | 99% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 658000 | 7.713 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 1190000 | 8.616 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 1100000 | 11.414 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 445000 | 13.346 | | | | |

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | |
| Project: | USACE018-44 DOD | Date Received: | |
| Client Sample ID: | VY0819SBL01 | SDG No.: | Q2819 |
| Lab Sample ID: | VY0819SBL01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023138.D | 1 | 08/19/25 09:49 | VY081925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023138.D
Acq On : 19 Aug 2025 09:49
Operator : SY/MD
Sample : VY0819SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBL01

Quant Time: Aug 20 01:24:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

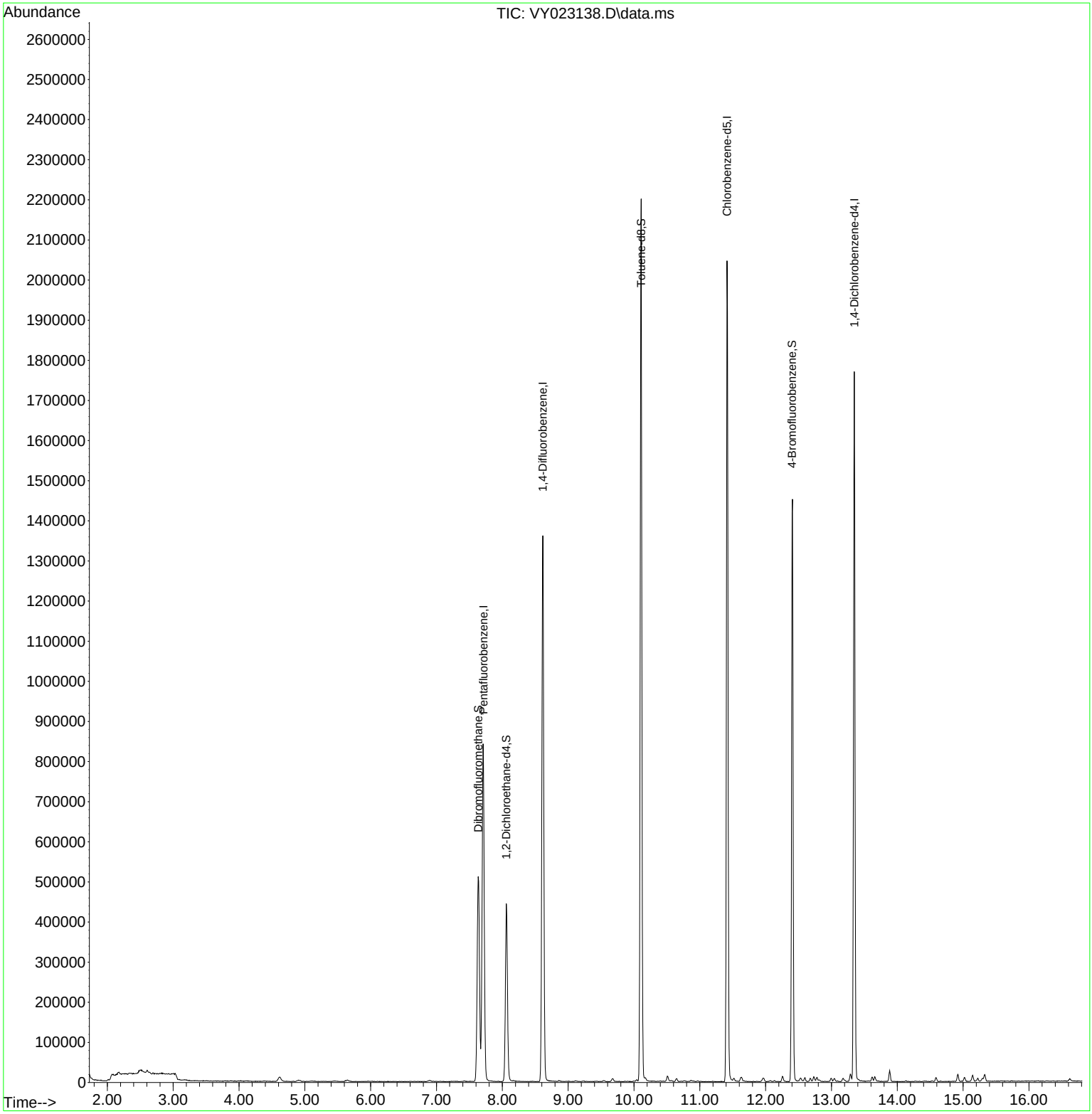
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 658468 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 1194271 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 1104701 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 444569 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 335313 | 53.431 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 106.860% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 374747 | 52.441 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 104.880% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 1432079 | 51.298 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 102.600% | | | |
| 62) 4-Bromofluorobenzene | 12.402 | 95 | 444143 | 49.470 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 98.940% | | | |
| Target Compounds | | | | | | Qvalue |

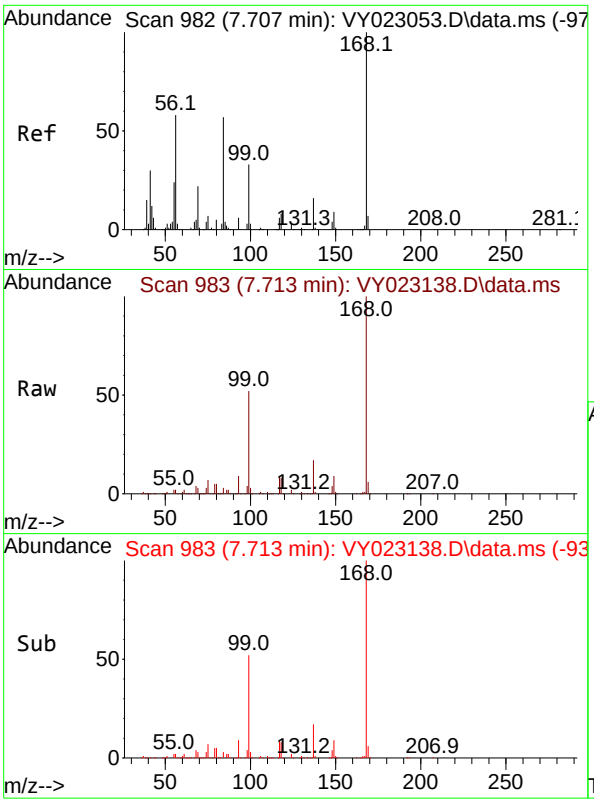
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023138.D
Acq On : 19 Aug 2025 09:49
Operator : SY/MD
Sample : VY0819SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBL01

Quant Time: Aug 20 01:24:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



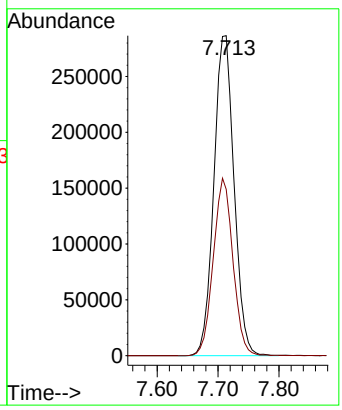


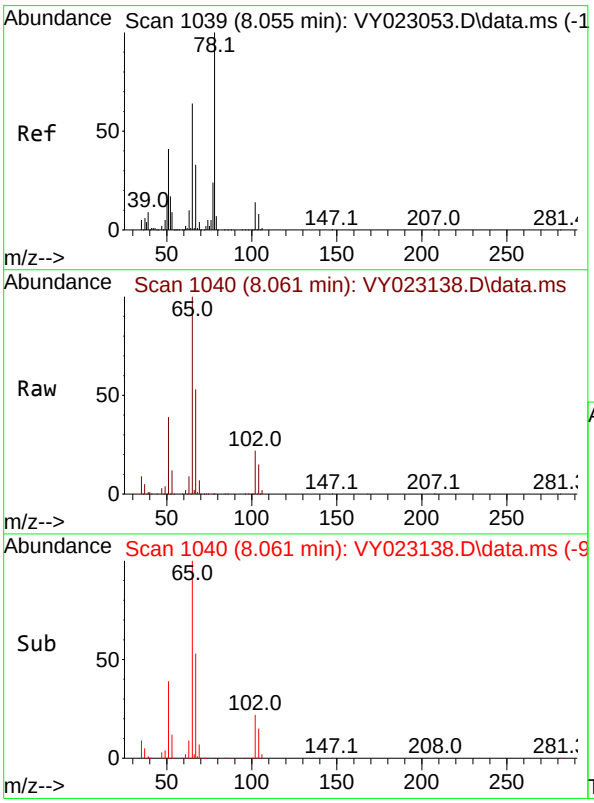

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023138.D
Acq: 19 Aug 2025 09:49

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBL01

Tgt Ion:168 Resp: 658468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 52.0 | 42.8 | 64.2 |

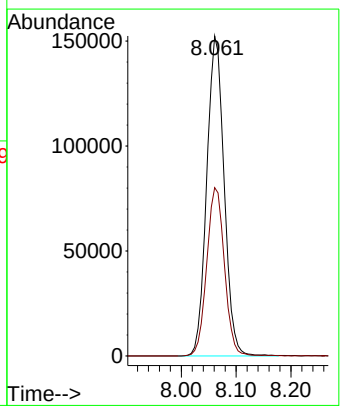


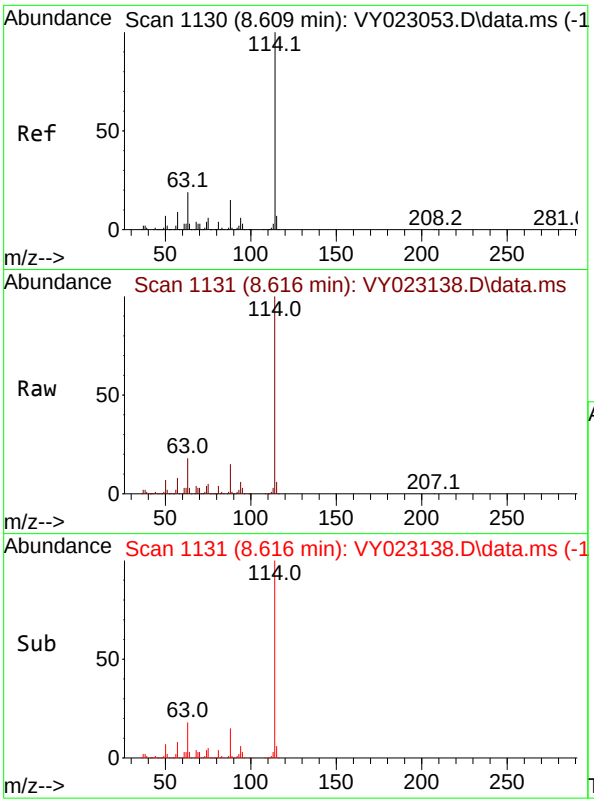




#33
1,2-Dichloroethane-d4
Concen: 53.431 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY023138.D
Acq: 19 Aug 2025 09:49

Tgt Ion: 65 Resp: 335313

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.6 | 0.0 | 106.8 |



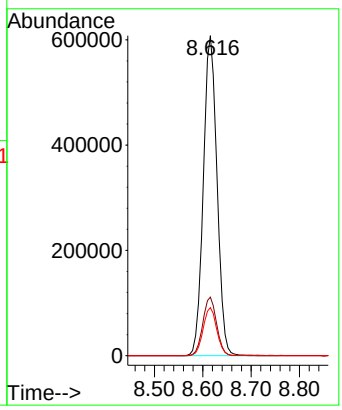


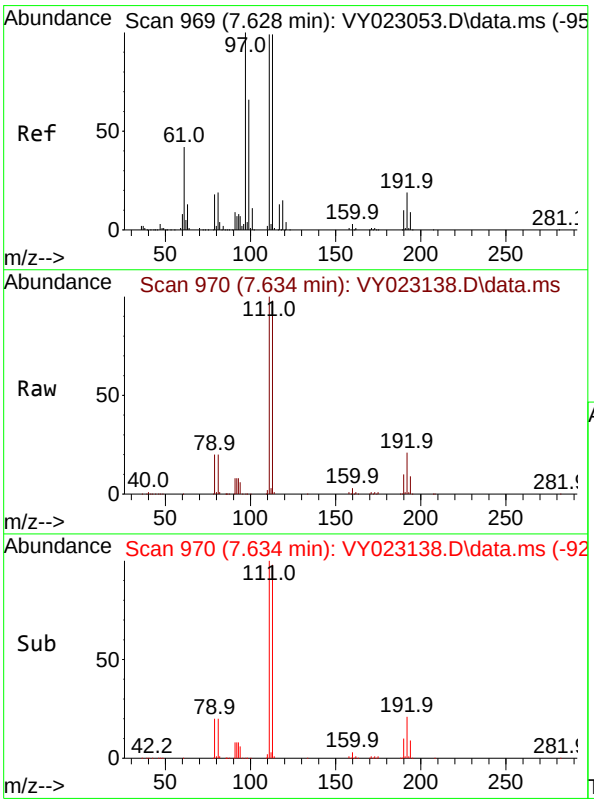

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023138.D
Acq: 19 Aug 2025 09:49

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBL01

Tgt Ion:114 Resp: 1194271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.3 | 0.0 | 38.4 |
| 88 | 15.0 | 0.0 | 30.0 |

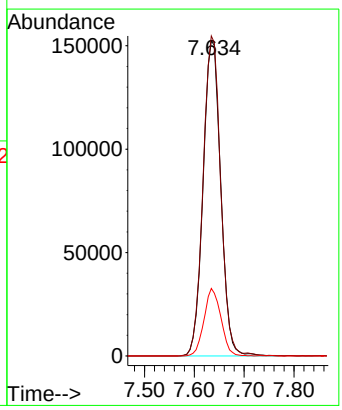


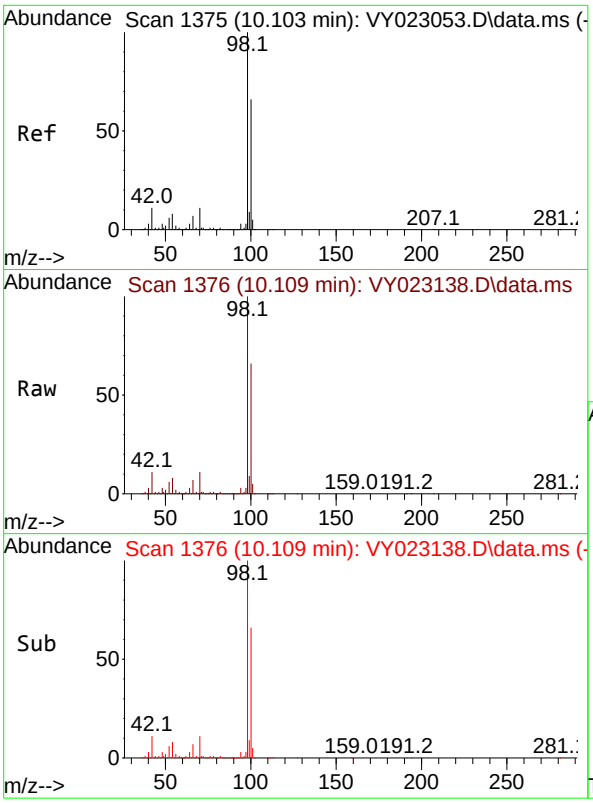




#35
Dibromofluoromethane
Concen: 52.441 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.006 min
Lab File: VY023138.D
Acq: 19 Aug 2025 09:49

Tgt Ion:113 Resp: 374747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.4 | 81.1 | 121.7 |
| 192 | 20.5 | 16.2 | 24.4 |



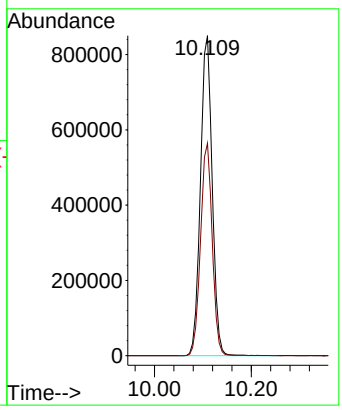


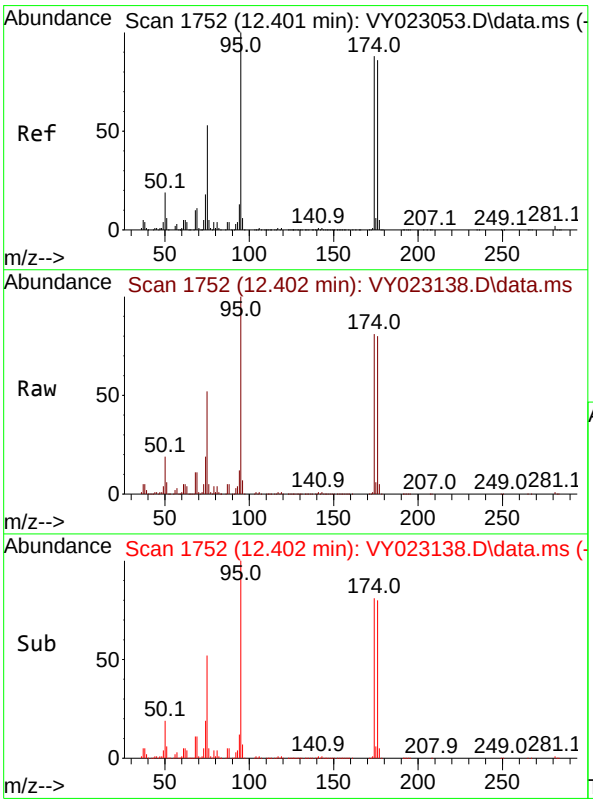

#50
Toluene-d8
Concen: 51.298 ug/l
RT: 10.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023138.D
Acq: 19 Aug 2025 09:49

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBL01

Tgt Ion: 98 Resp: 1432079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.1 | 52.3 | 78.5 |

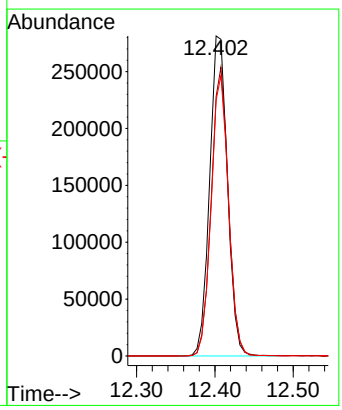


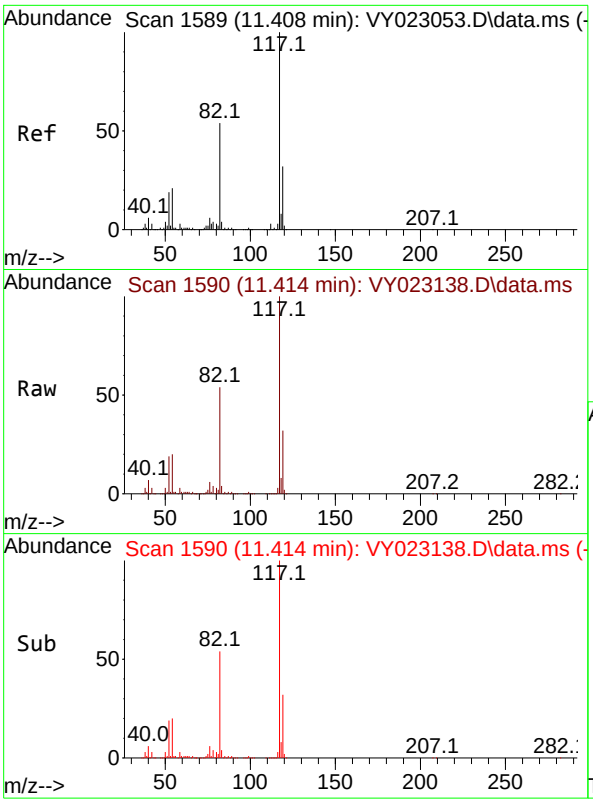




#62
4-Bromofluorobenzene
Concen: 49.470 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023138.D
Acq: 19 Aug 2025 09:49

Tgt Ion: 95 Resp: 444143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 87.2 | 0.0 | 171.6 |
| 176 | 85.2 | 0.0 | 167.6 |



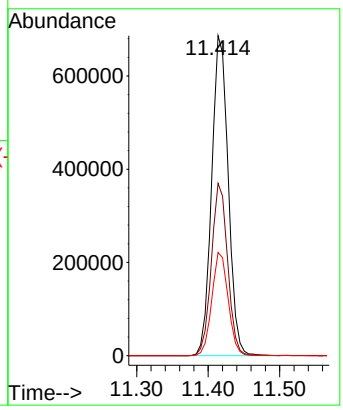


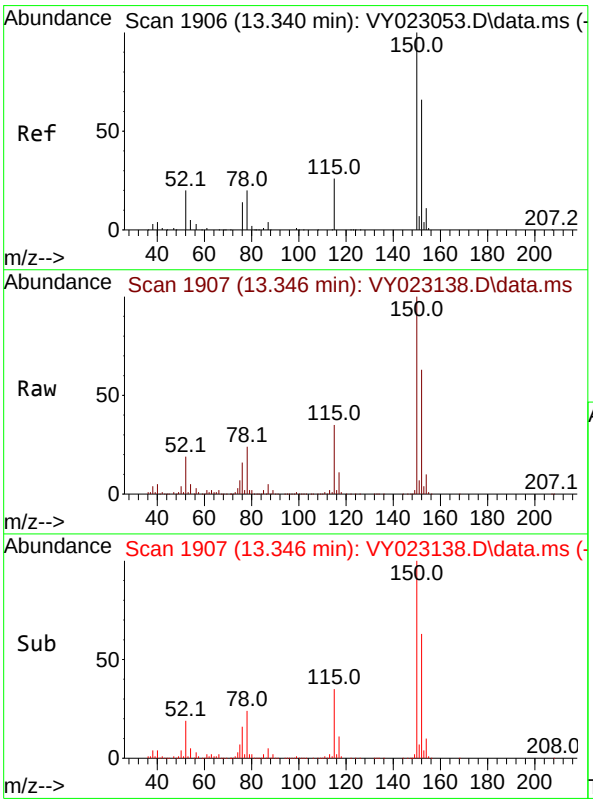

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023138.D
Acq: 19 Aug 2025 09:49

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBL01

Tgt Ion:117 Resp: 1104701

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 53.8 | 43.4 | 65.0 |
| 119 | 32.3 | 25.6 | 38.4 |

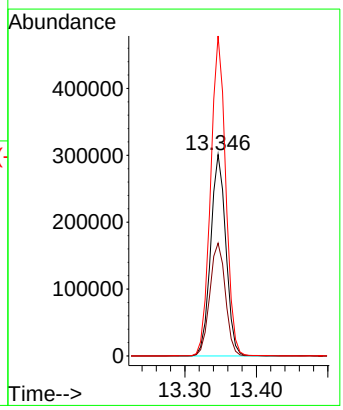



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023138.D
Acq: 19 Aug 2025 09:49

Tgt Ion:152 Resp: 444569

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.6 | 28.2 | 84.6 |
| 150 | 157.2 | 0.0 | 348.0 |



Sample Results: **VY023138.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023138.D
Acq On : 19 Aug 2025 09:49
Operator : SY/MD
Sample : VY0819SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Title : SW846 8260

Signal : TIC: VY023138.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 7.634 | 958 | 970 | 976 | rBV | 510580 | 1243928 | 33.33% | 6.594% |
| 2 | 7.707 | 976 | 982 | 999 | rVB | 840685 | 1892132 | 50.70% | 10.030% |
| 3 | 8.061 | 1028 | 1040 | 1054 | rBV | 443697 | 971326 | 26.03% | 5.149% |
| 4 | 8.616 | 1120 | 1131 | 1146 | rBV | 1360918 | 2685104 | 71.95% | 14.234% |
| 5 | 10.109 | 1368 | 1376 | 1385 | rBV | 2198754 | 3731783 | 100.00% | 19.782% |
| 6 | 11.414 | 1583 | 1590 | 1603 | rBV | 2046252 | 3307378 | 88.63% | 17.533% |
| 7 | 12.408 | 1744 | 1753 | 1766 | rBV | 1451914 | 2322536 | 62.24% | 12.312% |
| 8 | 13.346 | 1901 | 1907 | 1923 | rVB | 1768318 | 2667628 | 71.48% | 14.141% |
| 9 | 13.883 | 1989 | 1995 | 2002 | rVB2 | 27347 | 42356 | 1.14% | 0.225% |

Sum of corrected areas: 18864171

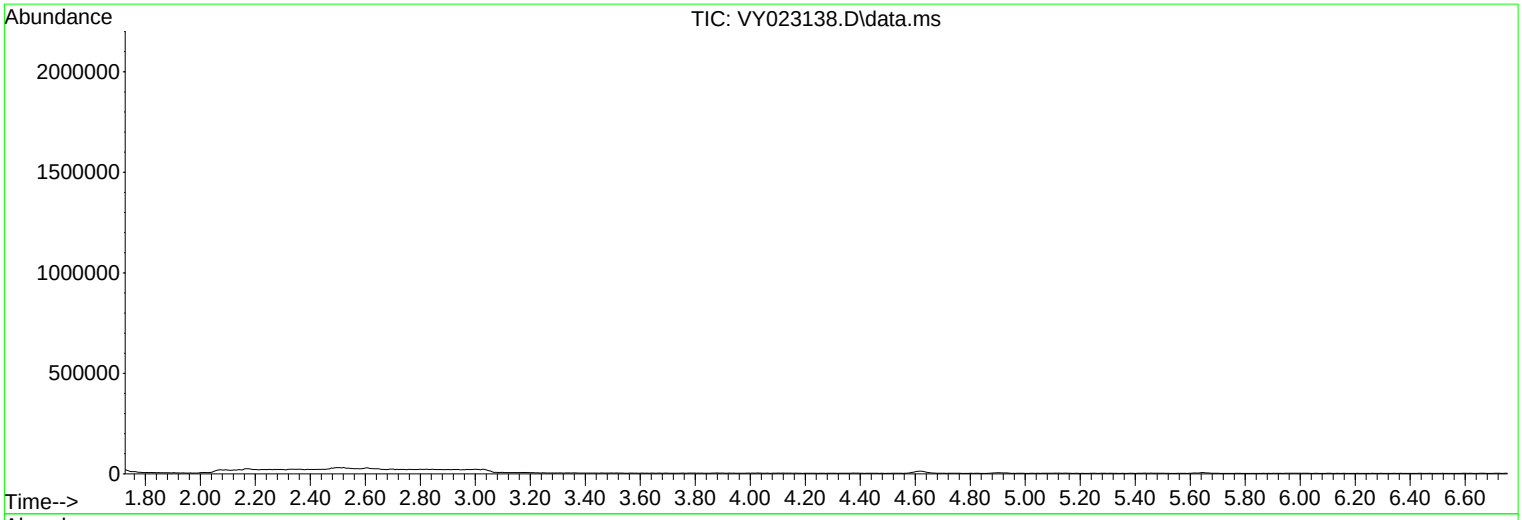
Sample Results: **VY023138.D**

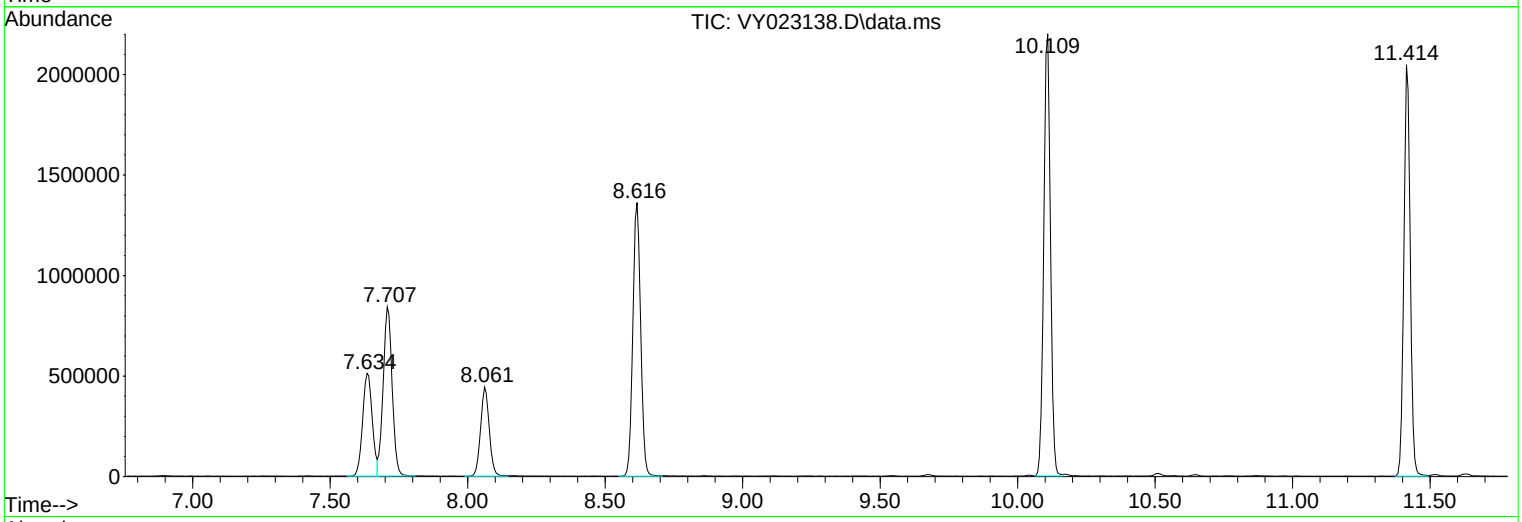
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023138.D
Acq On : 19 Aug 2025 09:49
Operator : SY/MD
Sample : VY0819SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

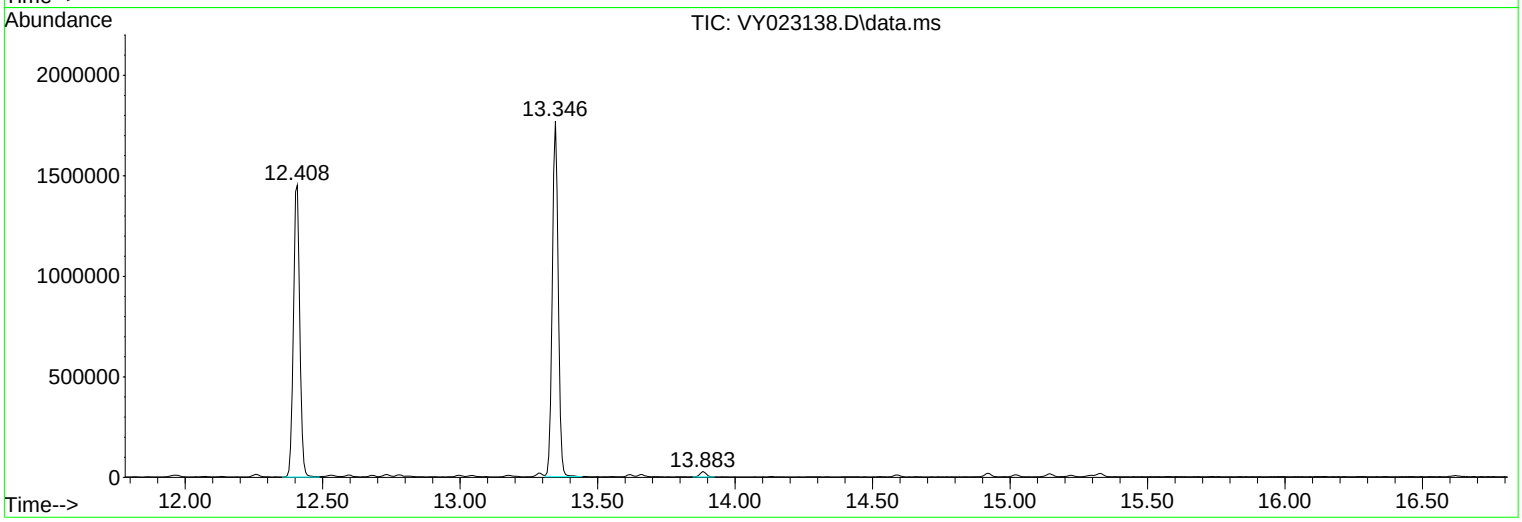
**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023138.D
Acq On : 19 Aug 2025 09:49
Operator : SY/MD
Sample : VY0819SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
**********

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023138.D
Acq On : 19 Aug 2025 09:49
Operator : SY/MD
Sample : VY0819SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name | RT | EstConc | Units | Response | Internal Standard # | Internal Standard RT | Internal Standard Resp | Internal Standard Conc |
|---|---|---|---|---|---|---|---|---|

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | |
| Project: | USACE018-44 DOD | Date Received: | |
| Client Sample ID: | VW0811SBS01 | SDG No.: | Q2819 |
| Lab Sample ID: | VW0811SBS01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VW032061.D | 1 | 08/11/25 12:48 | VW081125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 21.3 | | 1.10 | 4.00 | 5.00 | ug/Kg |
| 74-87-3 | Chloromethane | 20.8 | | 1.10 | 2.50 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 21.1 | | 0.79 | 2.50 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 21.5 | | 1.10 | 4.00 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 20.8 | | 1.30 | 2.50 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 17.6 | | 1.20 | 4.00 | 5.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 20.1 | | 1.10 | 2.50 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 20.4 | | 1.00 | 2.50 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 120 | | 4.70 | 20.0 | 25.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 20.2 | | 1.10 | 4.00 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 21.9 | | 0.73 | 2.50 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 21.7 | | 1.50 | 4.00 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 21.4 | | 3.50 | 8.00 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 20.7 | | 0.86 | 2.50 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 21.0 | | 0.80 | 2.50 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 20.0 | | 0.79 | 2.50 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 110 | | 6.50 | 20.0 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 20.0 | | 0.97 | 2.50 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 21.2 | | 0.75 | 2.50 | 5.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 20.5 | | 1.20 | 4.00 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 21.1 | | 0.84 | 4.00 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 20.7 | | 0.93 | 2.50 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 20.0 | | 0.91 | 2.50 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 21.0 | | 0.79 | 2.50 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 20.9 | | 0.79 | 2.50 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 20.2 | | 0.81 | 2.50 | 5.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 21.0 | | 0.91 | 2.50 | 5.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 20.4 | | 0.78 | 2.50 | 5.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 110 | | 3.60 | 12.5 | 25.0 | ug/Kg |
| 108-88-3 | Toluene | 21.0 | | 0.78 | 2.50 | 5.00 | ug/Kg |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | |
| Project: | USACE018-44 DOD | Date Received: | |
| Client Sample ID: | VW0811SBS01 | SDG No.: | Q2819 |
| Lab Sample ID: | VW0811SBS01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VW032061.D | 1 | 08/11/25 12:48 | VW081125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 20.4 | | 0.65 | 2.50 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 20.9 | | 0.62 | 2.50 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 20.8 | | 0.92 | 2.50 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 110 | | 3.70 | 12.5 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 20.6 | | 0.87 | 2.50 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 21.2 | | 0.88 | 2.50 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 21.1 | | 1.10 | 2.50 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 20.2 | | 0.91 | 2.50 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 20.1 | | 0.67 | 2.50 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 40.9 | | 1.20 | 5.00 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 21.2 | | 0.82 | 2.50 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 20.9 | | 0.71 | 2.50 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 19.6 | | 0.86 | 2.50 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 19.9 | | 0.78 | 2.50 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 20.1 | | 1.20 | 2.50 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 20.4 | | 1.70 | 2.50 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 20.7 | | 1.60 | 2.50 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 20.3 | | 1.50 | 2.50 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 20.1 | | 1.80 | 4.00 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 19.5 | | 3.00 | 4.00 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 21.4 | | 3.20 | 4.00 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50.8 | | 71 - 136 | | 102% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 48.9 | | 78 - 119 | | 98% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 49.8 | | 85 - 116 | | 100% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 52.4 | | 79 - 119 | | 105% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 224000 | 7.959 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 428000 | 8.849 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 395000 | 11.629 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 192000 | 13.556 | | | | |

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Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | |
| Project: | USACE018-44 DOD | Date Received: | |
| Client Sample ID: | VW0811SBS01 | SDG No.: | Q2819 |
| Lab Sample ID: | VW0811SBS01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VW032061.D | 1 | 08/11/25 12:48 | VW081125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032061.D
Acq On : 11 Aug 2025 12:48
Operator : SY/MD
Sample : VW0811SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 12 04:23:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.959 | 168 | 224181 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.849 | 114 | 427747 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.629 | 117 | 394820 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.556 | 152 | 191594 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.319 | 65 | 164557 | 50.753 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 63 - 155 | | Recovery = 101.500% | | | |
| 35) Dibromofluoromethane | 7.898 | 113 | 135084 | 48.883 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 70 - 134 | | Recovery = 97.760% | | | |
| 50) Toluene-d8 | 10.325 | 98 | 508647 | 49.765 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 123 | | Recovery = 99.520% | | | |
| 62) 4-Bromofluorobenzene | 12.617 | 95 | 197267 | 52.373 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 17 - 146 | | Recovery = 104.740% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.046 | 85 | 34210 | 21.336 | ug/l | 99 |
| 3) Chloromethane | 2.253 | 50 | 44827 | 20.755 | ug/l | 100 |
| 4) Vinyl Chloride | 2.405 | 62 | 55119 | 21.098 | ug/l | 96 |
| 5) Bromomethane | 2.814 | 94 | 42172 | 21.516 | ug/l | 100 |
| 6) Chloroethane | 2.972 | 64 | 36005 | 20.827 | ug/l | 93 |
| 7) Trichlorofluoromethane | 3.302 | 101 | 36824 | 17.595 | ug/l | 97 |
| 8) Diethyl Ether | 3.716 | 74 | 36836 | 21.483 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 4.094 | 101 | 49645 | 20.107 | ug/l | 99 |
| 10) Methyl Iodide | 4.301 | 142 | 76912 | 21.970 | ug/l | 99 |
| 11) Tert butyl alcohol | 5.222 | 59 | 21680 | 103.263 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 4.076 | 96 | 55559 | 20.435 | ug/l | 98 |
| 13) Acrolein | 3.923 | 56 | 37149 | 111.050 | ug/l | 100 |
| 14) Allyl chloride | 4.704 | 41 | 84834 | 21.439 | ug/l | 100 |
| 15) Acrylonitrile | 5.399 | 53 | 86103 | 105.428 | ug/l | 99 |
| 16) Acetone | 4.155 | 43 | 86915 | 115.783 | ug/l | 99 |
| 17) Carbon Disulfide | 4.417 | 76 | 147760 | 20.248 | ug/l | 97 |
| 18) Methyl Acetate | 4.704 | 43 | 51464 | 21.665 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.454 | 73 | 104973 | 21.914 | ug/l | 99 |
| 20) Methylene Chloride | 4.948 | 84 | 74303 | 21.408 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 5.454 | 96 | 59717 | 20.698 | ug/l | 96 |
| 22) Diisopropyl ether | 6.338 | 45 | 180946 | 21.692 | ug/l | 98 |
| 23) Vinyl Acetate | 6.283 | 43 | 585943 | 106.987 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 6.240 | 63 | 111769 | 20.971 | ug/l | 97 |
| 25) 2-Butanone | 7.191 | 43 | 119059 | 111.594 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 7.185 | 77 | 55490 | 20.753 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 7.191 | 96 | 71568 | 21.221 | ug/l | 97 |
| 28) Bromochloromethane | 7.526 | 49 | 49722 | 20.501 | ug/l | 100 |
| 29) Tetrahydrofuran | 7.551 | 42 | 75818 | 107.756 | ug/l | 100 |
| 30) Chloroform | 7.691 | 83 | 119431 | 21.137 | ug/l | 99 |
| 31) Cyclohexane | 7.965 | 56 | 92372 | 19.992 | ug/l | 96 |
| 32) 1,1,1-Trichloroethane | 7.880 | 97 | 84982 | 20.707 | ug/l | 97 |
| 36) 1,1-Dichloropropene | 8.093 | 75 | 78541 | 20.161 | ug/l | 99 |
| 37) Ethyl Acetate | 7.270 | 43 | 48130 | 20.977 | ug/l | 99 |
| 38) Carbon Tetrachloride | 8.081 | 117 | 75079 | 19.971 | ug/l | 92 |
| 39) Methylcyclohexane | 9.343 | 83 | 94968 | 20.000 | ug/l | 93 |
| 40) Benzene | 8.337 | 78 | 254209 | 20.993 | ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032061.D
Acq On : 11 Aug 2025 12:48
Operator : SY/MD
Sample : VW0811SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 12 04:23:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.502 | 41 | 28577 | 21.963 | ug/l | | 98 |
| 42) 1,2-Dichloroethane | 8.410 | 62 | 81049 | 20.917 | ug/l | | 98 |
| 43) Isopropyl Acetate | 8.435 | 43 | 86573 | 20.509 | ug/l | | 99 |
| 44) Trichloroethene | 9.099 | 130 | 58362 | 20.238 | ug/l | | 99 |
| 45) 1,2-Dichloropropane | 9.374 | 63 | 61430 | 20.998 | ug/l | | 100 |
| 46) Dibromomethane | 9.465 | 93 | 38496 | 20.389 | ug/l | | 97 |
| 47) Bromodichloromethane | 9.648 | 83 | 88565 | 20.356 | ug/l | | 96 |
| 48) Methyl methacrylate | 9.441 | 41 | 43518 | 21.354 | ug/l | | 98 |
| 49) 1,4-Dioxane | 9.459 | 88 | 9712 | 397.829 | ug/l | | 97 |
| 51) 4-Methyl-2-Pentanone | 10.209 | 43 | 253567 | 106.423 | ug/l | | 99 |
| 52) Toluene | 10.386 | 92 | 160474 | 21.039 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 10.605 | 75 | 83098 | 20.387 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 10.075 | 75 | 96489 | 20.866 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 10.788 | 97 | 52115 | 20.771 | ug/l | | 98 |
| 56) Ethyl methacrylate | 10.648 | 69 | 71491 | 21.293 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 10.934 | 76 | 91289 | 20.874 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.928 | 63 | 195002 | 105.002 | ug/l | | 99 |
| 59) 2-Hexanone | 10.971 | 43 | 178926 | 108.432 | ug/l | | 99 |
| 60) Dibromochloromethane | 11.129 | 129 | 58977 | 20.578 | ug/l | | 97 |
| 61) 1,2-Dibromoethane | 11.239 | 107 | 51647 | 21.183 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.861 | 164 | 48059 | 21.074 | ug/l | | 97 |
| 65) Chlorobenzene | 11.660 | 112 | 173499 | 20.189 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.727 | 131 | 53383 | 19.910 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.727 | 91 | 293010 | 20.129 | ug/l | | 96 |
| 68) m/p-Xylenes | 11.837 | 106 | 229740 | 40.901 | ug/l | | 98 |
| 69) o-Xylene | 12.166 | 106 | 110031 | 21.194 | ug/l | | 95 |
| 70) Styrene | 12.178 | 104 | 192666 | 20.893 | ug/l | | 98 |
| 71) Bromoform | 12.349 | 173 | 30108 | 19.630 | ug/l | # | 97 |
| 73) Isopropylbenzene | 12.465 | 105 | 266790 | 19.925 | ug/l | | 99 |
| 74) N-amyl acetate | 12.269 | 43 | 78852 | 20.526 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.714 | 83 | 63958 | 20.118 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.763 | 75 | 48380m | 18.605 | ug/l | | |
| 77) Bromobenzene | 12.745 | 156 | 65314 | 20.423 | ug/l | | 98 |
| 78) n-propylbenzene | 12.800 | 91 | 339857 | 20.616 | ug/l | | 98 |
| 79) 2-Chlorotoluene | 12.885 | 91 | 209277 | 20.570 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.940 | 105 | 238429 | 20.975 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.513 | 75 | 18566 | 18.484 | ug/l | | 92 |
| 82) 4-Chlorotoluene | 12.983 | 91 | 222101 | 20.547 | ug/l | | 100 |
| 83) tert-Butylbenzene | 13.202 | 119 | 196393 | 20.817 | ug/l | | 97 |
| 84) 1,2,4-Trimethylbenzene | 13.245 | 105 | 241596 | 20.878 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.379 | 105 | 282666 | 19.818 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.495 | 119 | 238749 | 20.078 | ug/l | | 98 |
| 87) 1,3-Dichlorobenzene | 13.495 | 146 | 129585 | 20.364 | ug/l | | 96 |
| 88) 1,4-Dichlorobenzene | 13.574 | 146 | 132968 | 20.677 | ug/l | | 100 |
| 89) n-Butylbenzene | 13.818 | 91 | 235392 | 20.377 | ug/l | | 98 |
| 90) Hexachloroethane | 14.092 | 117 | 41522 | 19.094 | ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 13.867 | 146 | 116780 | 20.259 | ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.476 | 75 | 11343 | 20.070 | ug/l | | 98 |
| 93) 1,2,4-Trichlorobenzene | 15.123 | 180 | 67394 | 19.544 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.226 | 225 | 31990 | 20.753 | ug/l | | 93 |
| 95) Naphthalene | 15.360 | 128 | 173199 | 20.498 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.549 | 180 | 67287 | 21.446 | ug/l | | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032061.D
Acq On : 11 Aug 2025 12:48
Operator : SY/MD
Sample : VW0811SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 12 04:23:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

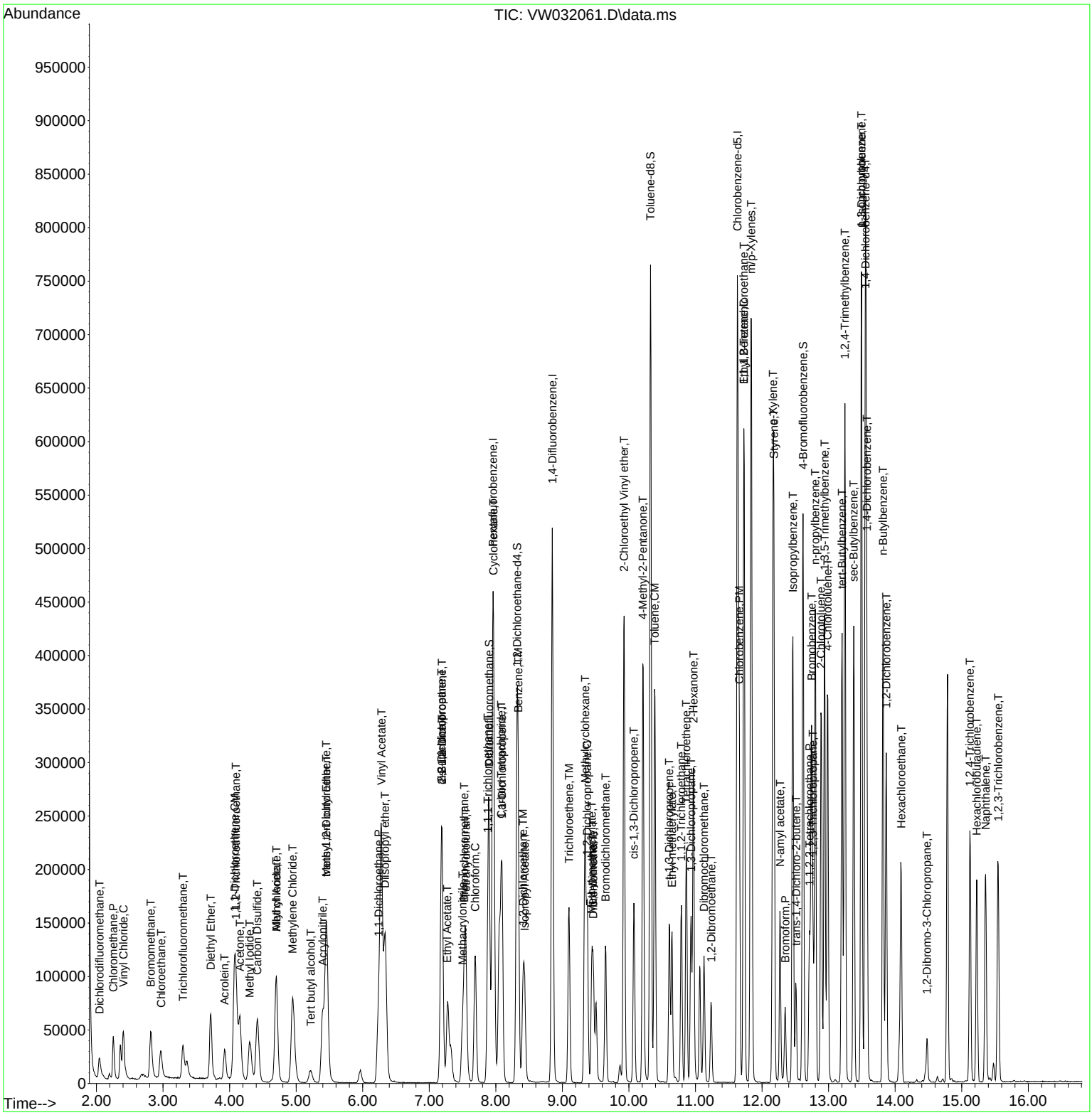
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032061.D
Acq On : 11 Aug 2025 12:48
Operator : SY/MD
Sample : VW0811SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

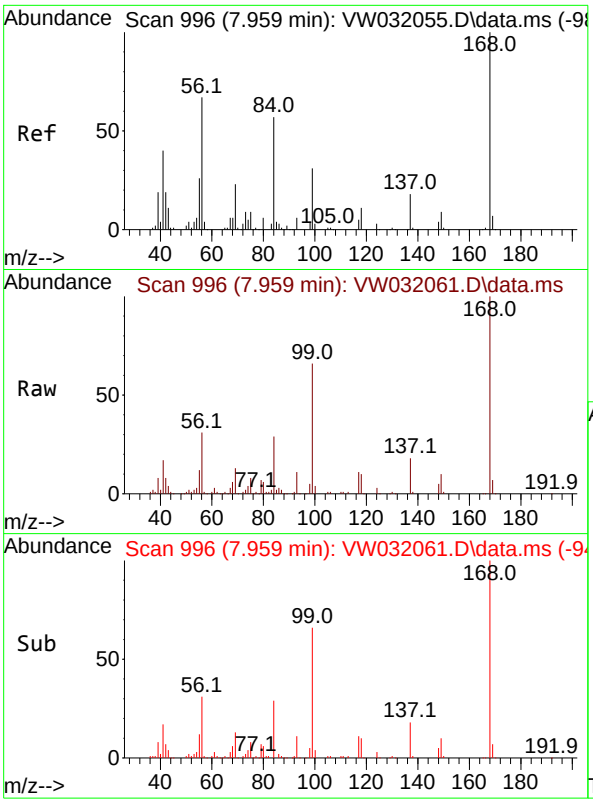
Quant Time: Aug 12 04:23:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

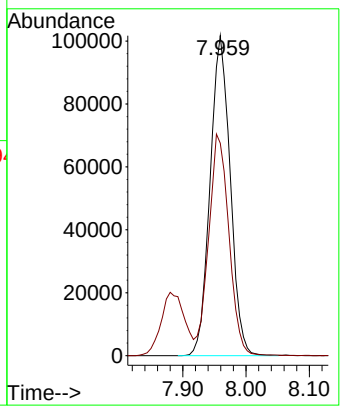





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:168 Resp: 22418

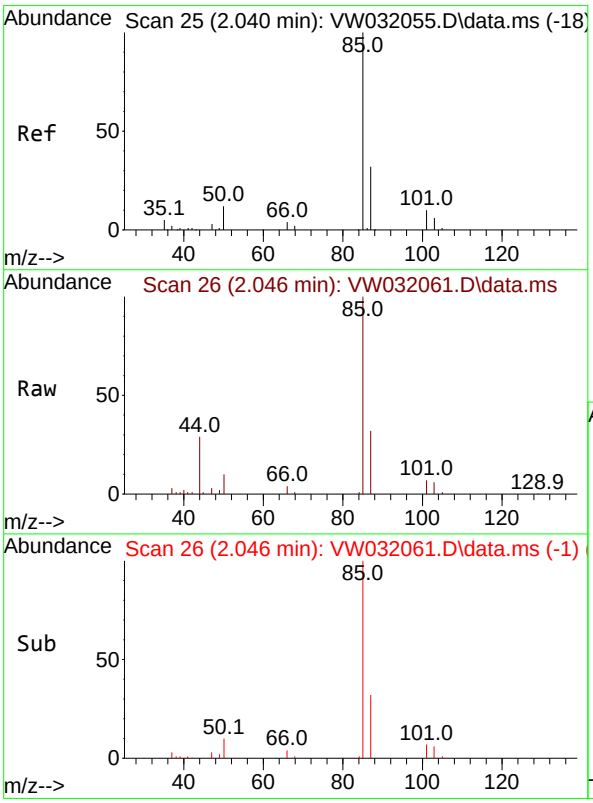
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 66.2 | 56.0 | 84.0 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

**Manual Integrations**
**APPROVED**

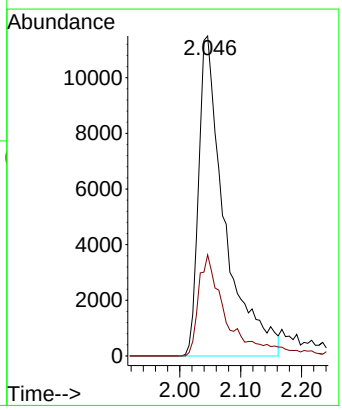
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

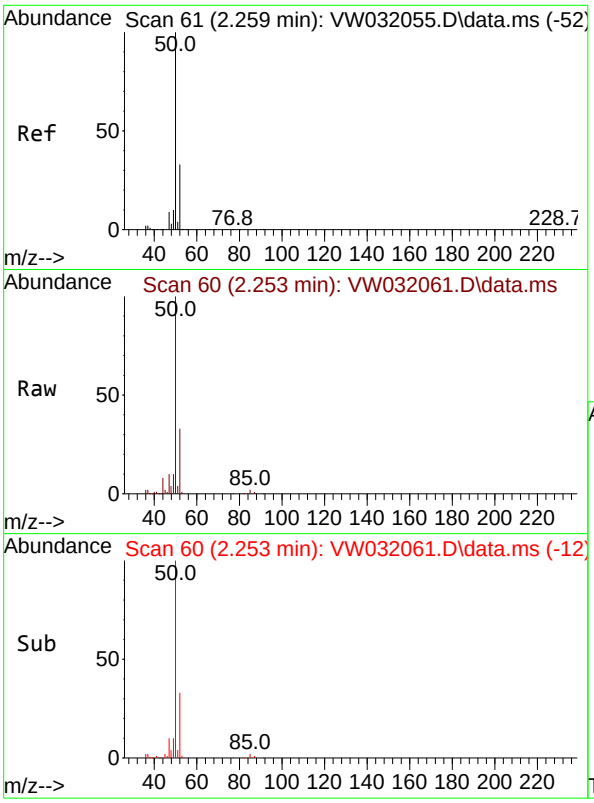



#2
Dichlorodifluoromethane
Concen: 21.336 ug/l
RT: 2.046 min Scan# 26
Delta R.T. 0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 85 Resp: 34210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.6 | 16.2 | 48.6 |

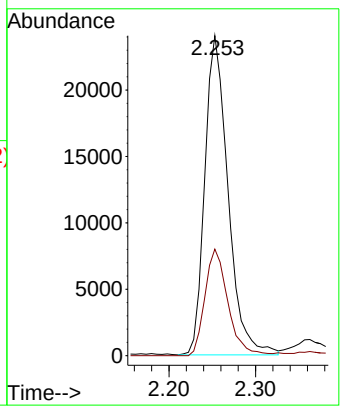





#3
Chloromethane
Concen: 20.755 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 50 Resp: 4482

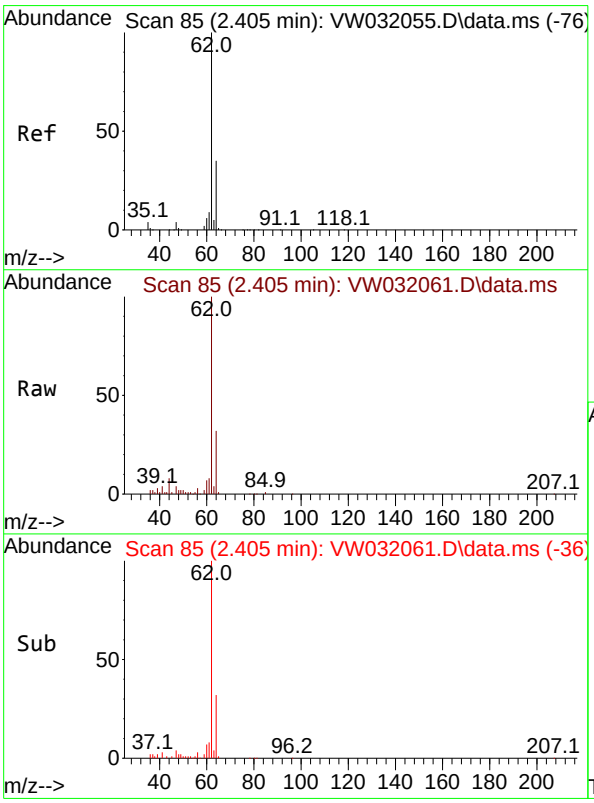
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.4 | 26.6 | 39.8 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

**Manual Integrations**
**APPROVED**

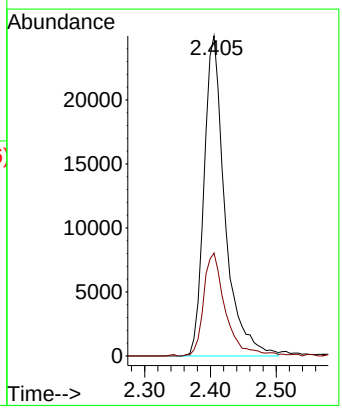
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

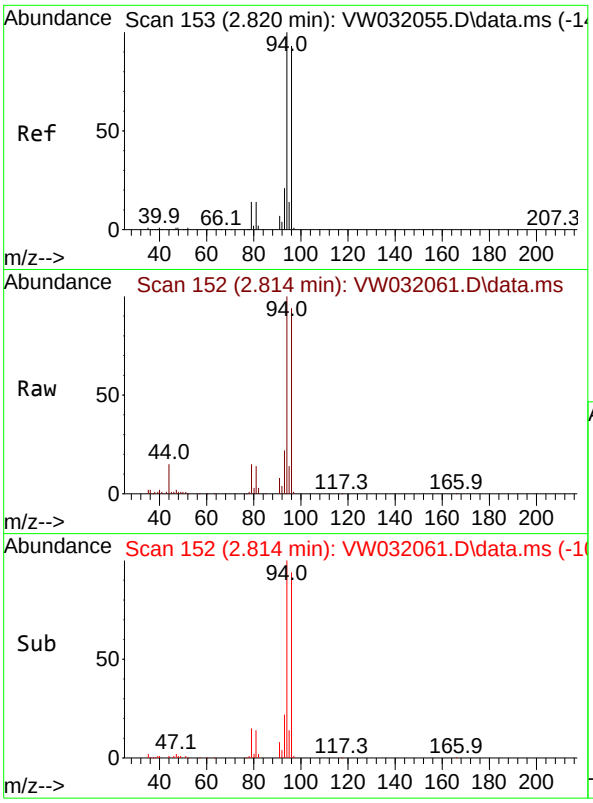



#4
Vinyl Chloride
Concen: 21.098 ug/l
RT: 2.405 min Scan# 85
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 62 Resp: 55119

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.2 | 27.8 | 41.6 |

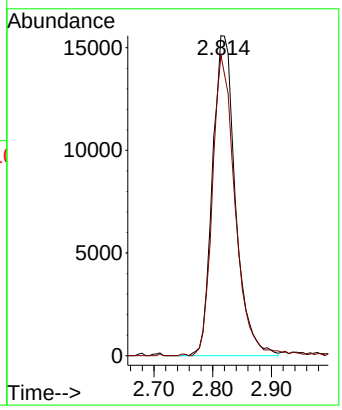





#5
Bromomethane
Concen: 21.516 ug/l
RT: 2.814 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 94 Resp: 4217

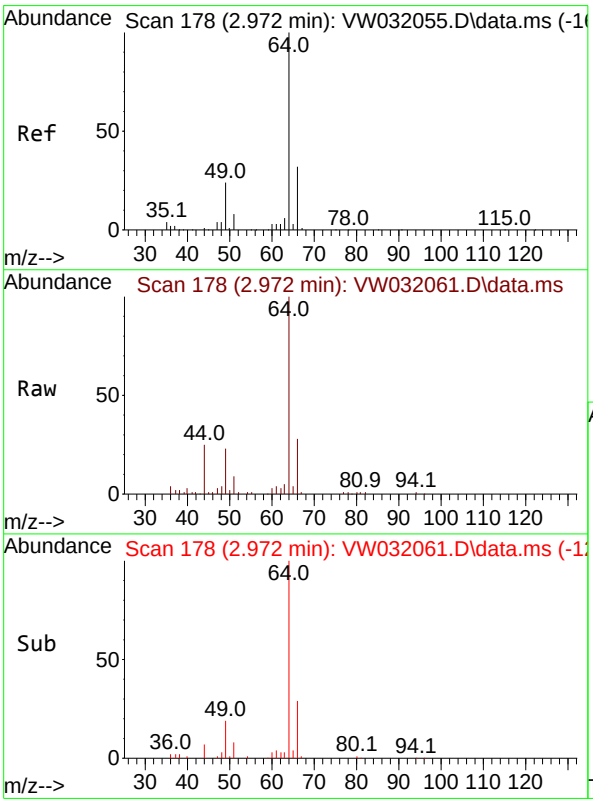
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 93.9 | 74.7 | 112.1 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

**Manual Integrations**
**APPROVED**

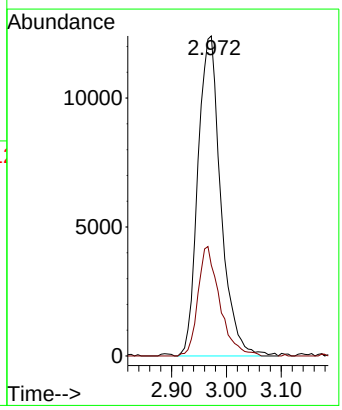
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

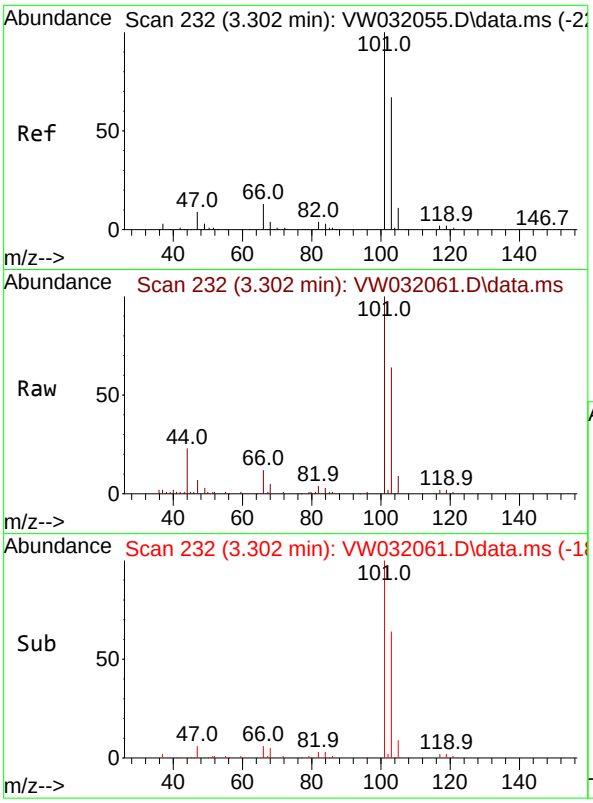



#6
Chloroethane
Concen: 20.827 ug/l
RT: 2.972 min Scan# 178
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 64 Resp: 36005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 28.3 | 26.0 | 39.0 |

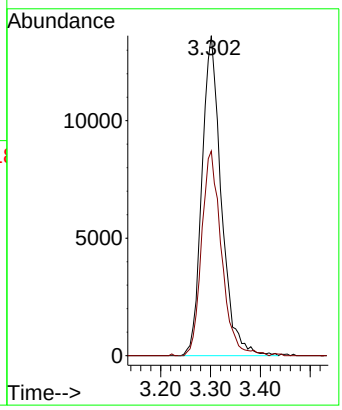





#7
Trichlorofluoromethane
Concen: 17.595 ug/l
RT: 3.302 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:101 Resp: 3682

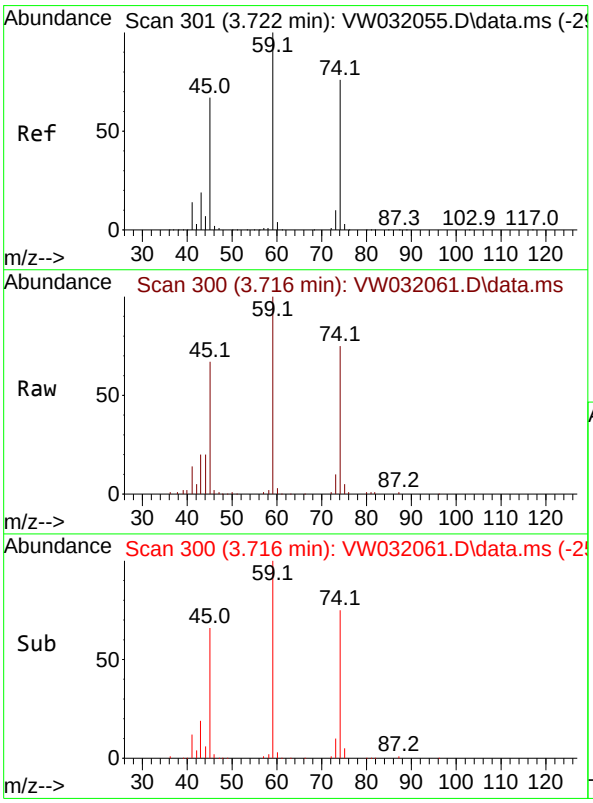
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.9 | 53.4 | 80.0 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

**Manual Integrations**
**APPROVED**

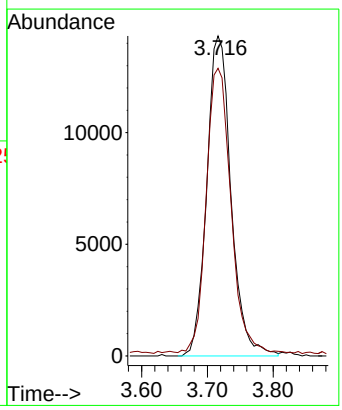
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

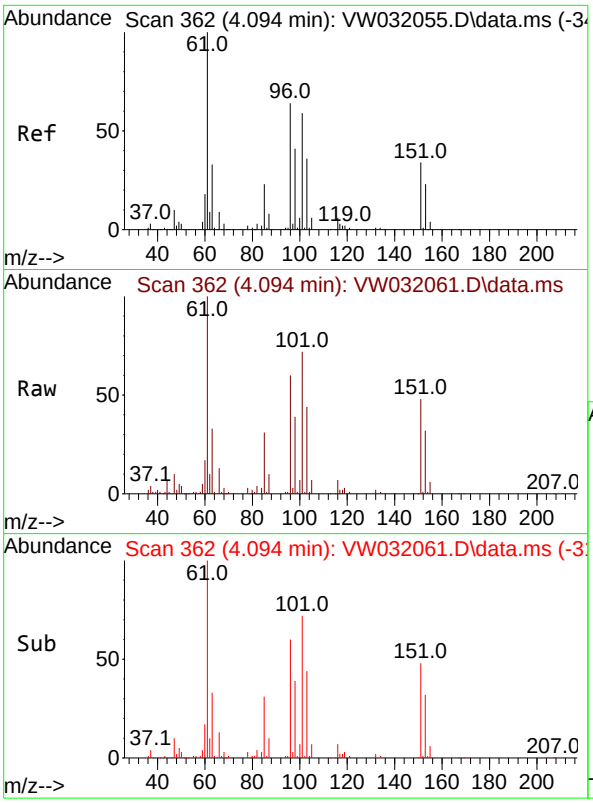



#8
Diethyl Ether
Concen: 21.483 ug/l
RT: 3.716 min Scan# 300
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 74 Resp: 36836

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 90.0 | 45.4 | 136.2 |

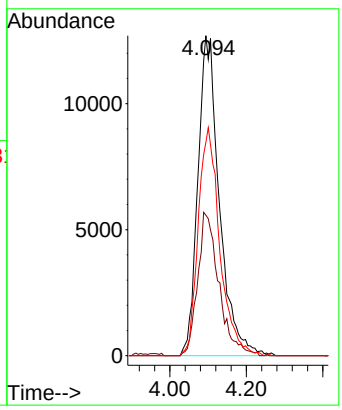





#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.107 ug/l
RT: 4.094 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:101 Resp: 4964

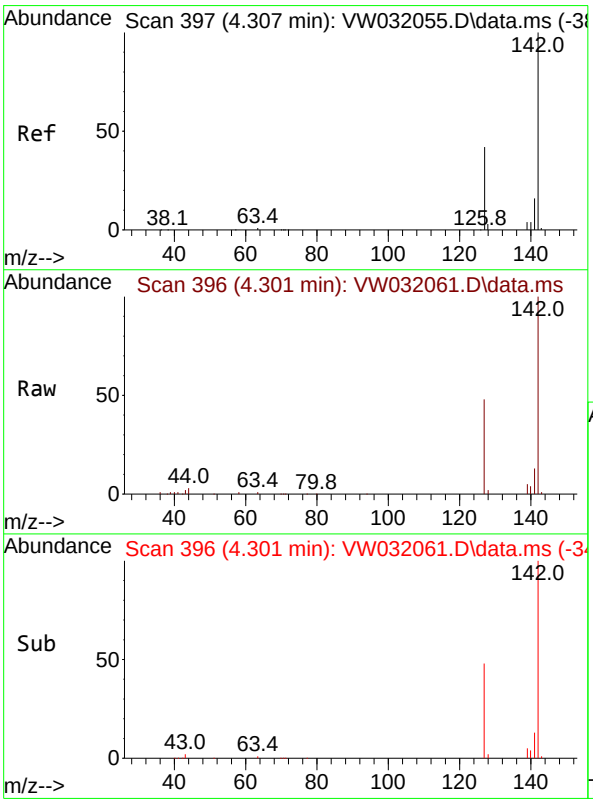
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 44.1 | 34.9 | 52.3 |
| 151 | 71.3 | 56.2 | 84.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

**Manual Integrations**
**APPROVED**

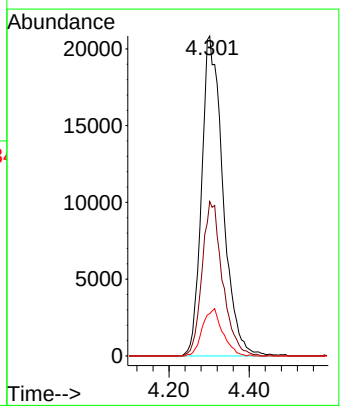
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

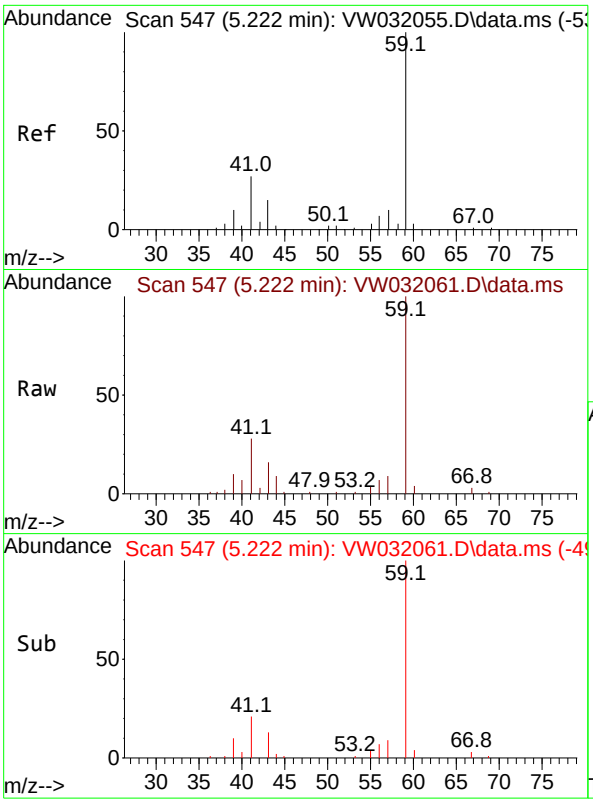



#10
Methyl Iodide
Concen: 21.970 ug/l
RT: 4.301 min Scan# 396
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:142 Resp: 76912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 46.4 | 36.6 | 55.0 |
| 141 | 14.0 | 12.1 | 18.1 |

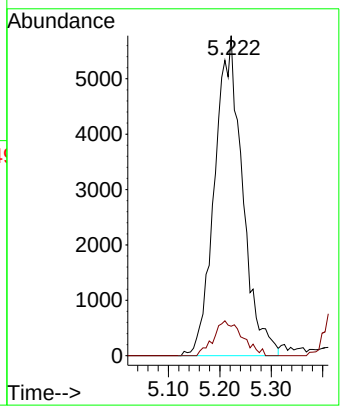





#11
Tert butyl alcohol
Concen: 103.263 ug/l
RT: 5.222 min Scan# 54
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 59 Resp: 2168

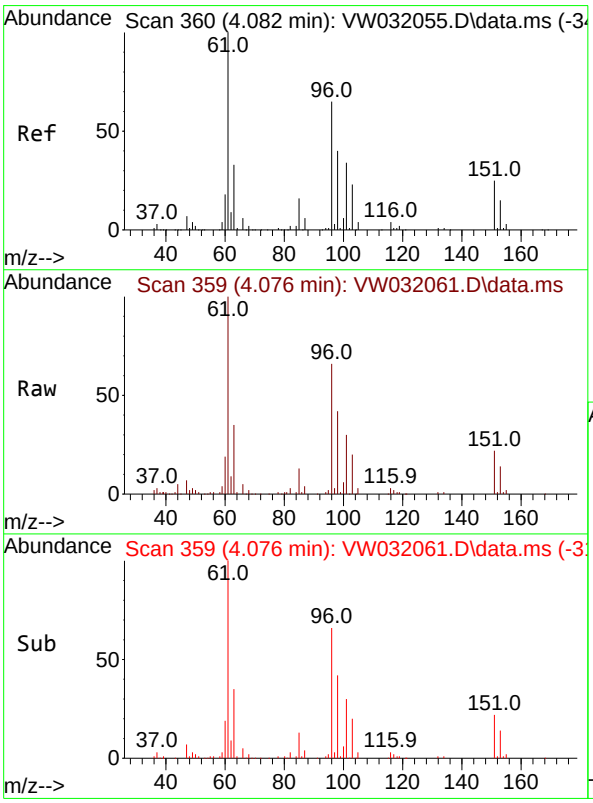
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 11.3 | 8.7 | 13.1 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

**Manual Integrations**
**APPROVED**

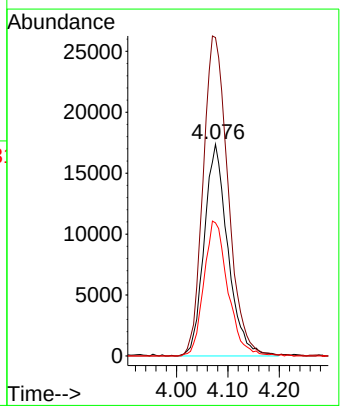
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

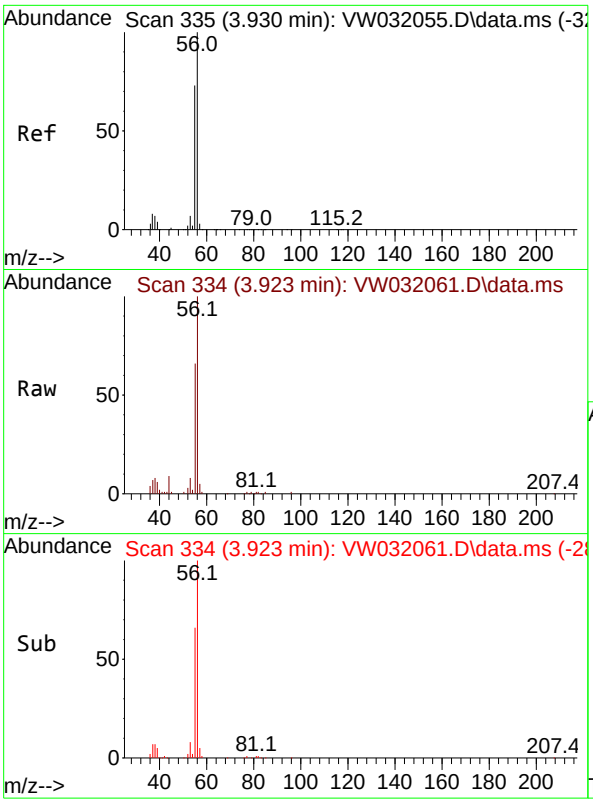



#12
1,1-Dichloroethene
Concen: 20.435 ug/l
RT: 4.076 min Scan# 359
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 96 Resp: 55559

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 150.5 | 123.4 | 185.2 |
| 98 | 62.9 | 49.5 | 74.3 |






#13
Acrolein
Concen: 111.050 ug/l
RT: 3.923 min Scan# 3
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

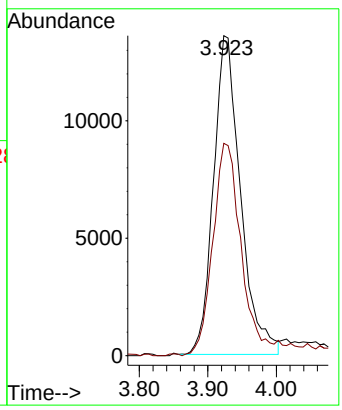
Tgt Ion: 56 Resp: 3714

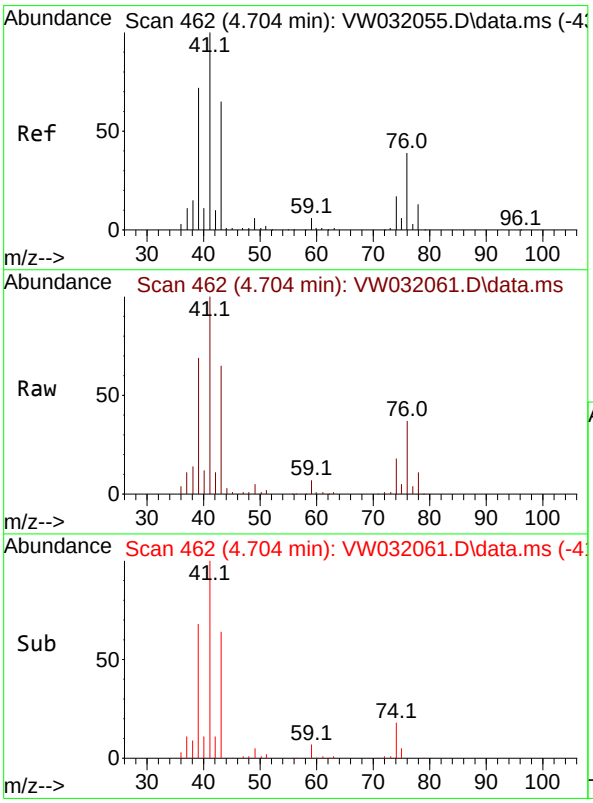
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 69.5 | 55.4 | 83.2 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

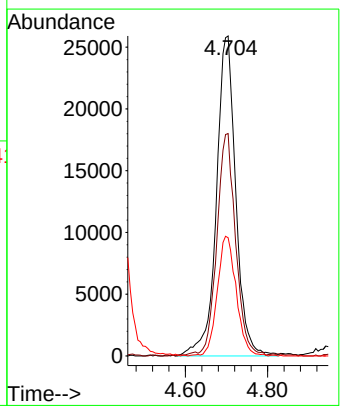


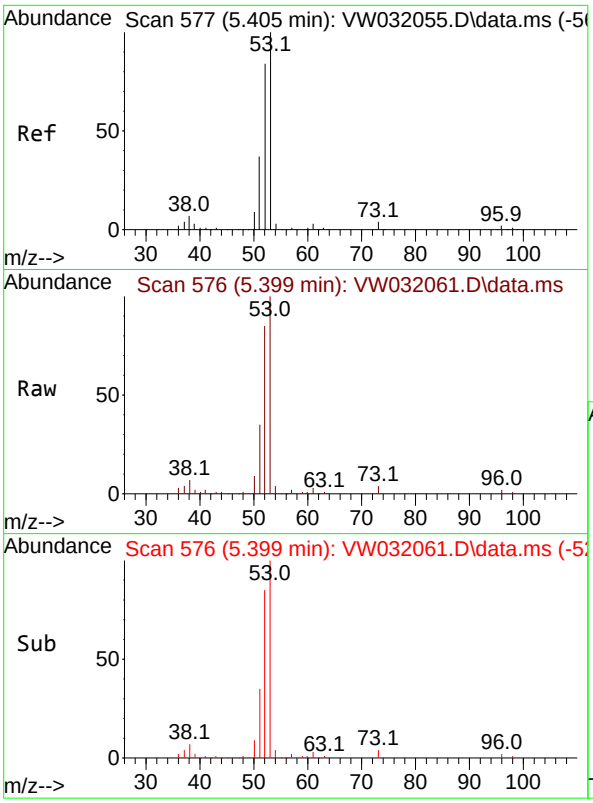




#14
Allyl chloride
Concen: 21.439 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 41 Resp: 84834

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 67.7 | 54.5 | 81.7 |
| 76 | 36.6 | 29.3 | 43.9 |

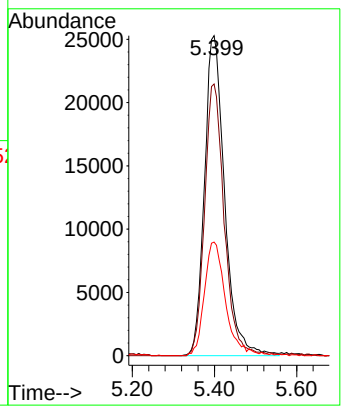





#15
Acrylonitrile
Concen: 105.428 ug/l
RT: 5.399 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 53 Resp: 8610

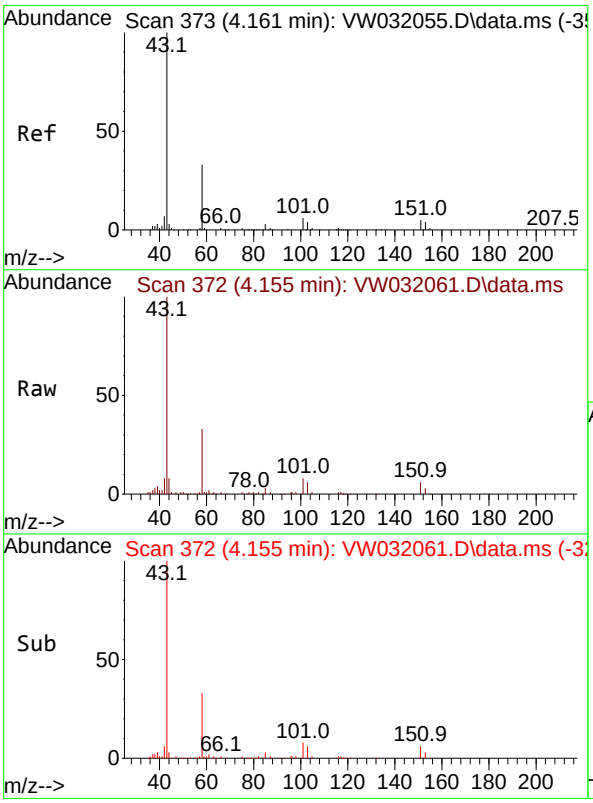
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.5 | 66.1 | 99.1 |
| 51 | 37.5 | 29.2 | 43.8 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

**Manual Integrations**
**APPROVED**

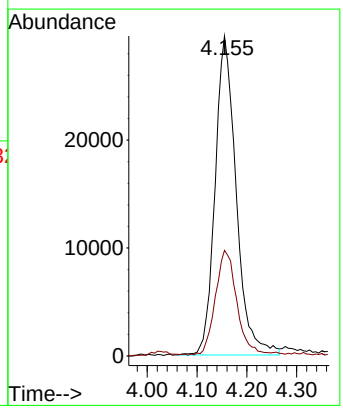
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

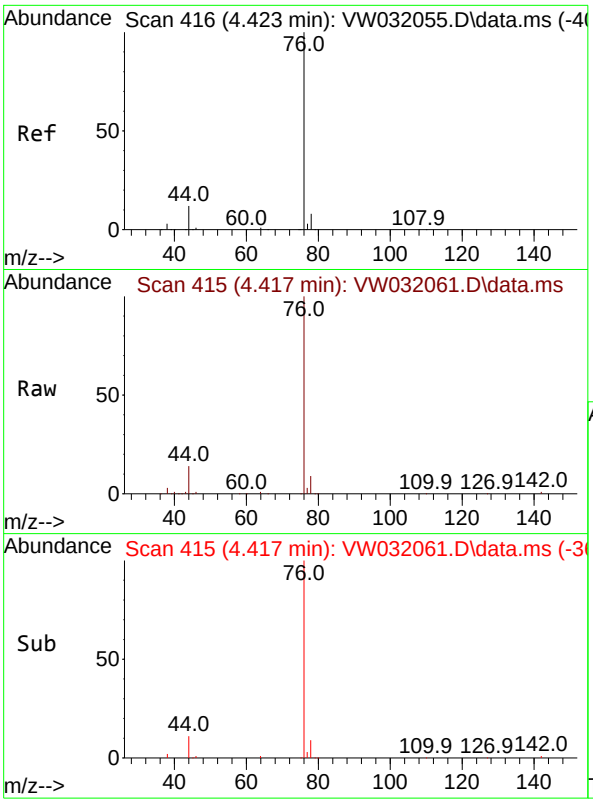



#16
Acetone
Concen: 115.783 ug/l
RT: 4.155 min Scan# 372
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 43 Resp: 86915

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.6 | 26.6 | 39.8 |

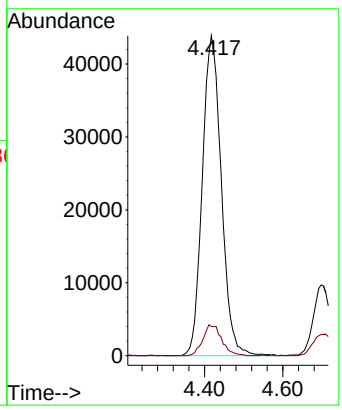





#17
Carbon Disulfide
Concen: 20.248 ug/l
RT: 4.417 min Scan# 4
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 76 Resp: 14776

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.2 | 6.4 | 9.6 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

**Manual Integrations**
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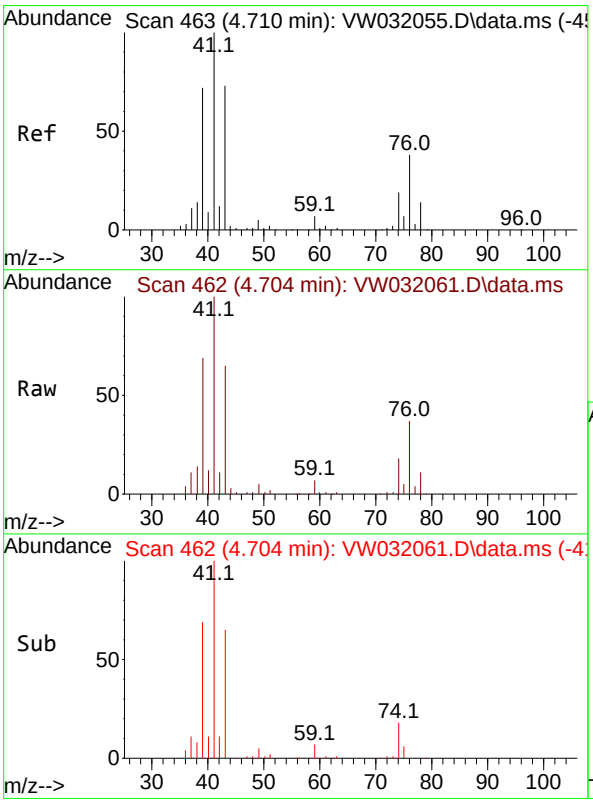
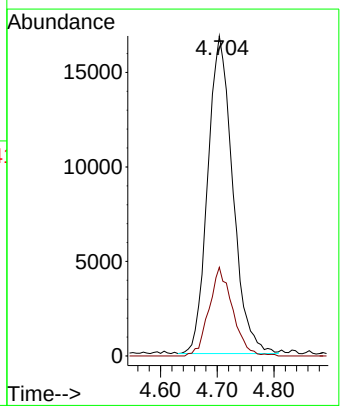
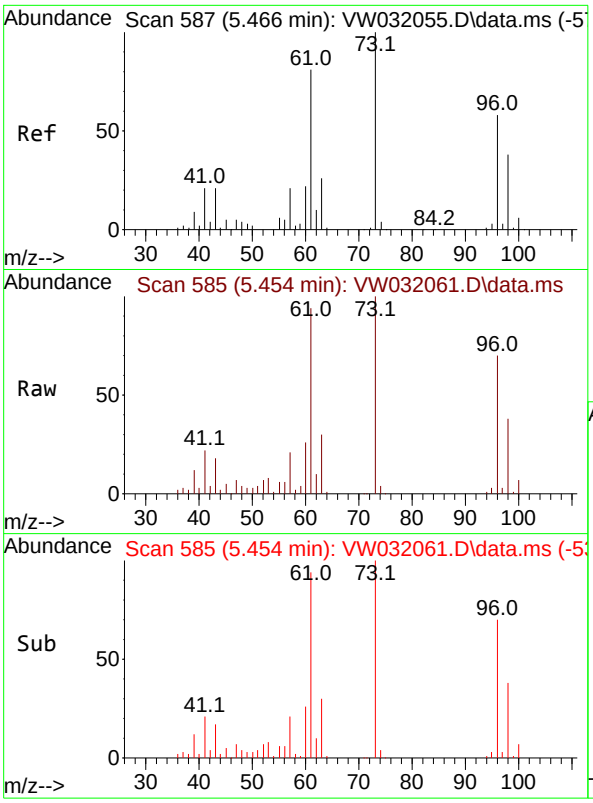



#18
Methyl Acetate
Concen: 21.665 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 43 Resp: 51464

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 26.3 | 20.6 | 31.0 |

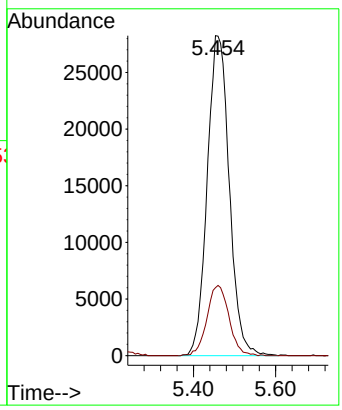





#19
Methyl tert-butyl Ether
Concen: 21.914 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.012 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 73 Resp: 10497

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.3 | 17.2 | 25.8 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

**Manual Integrations**
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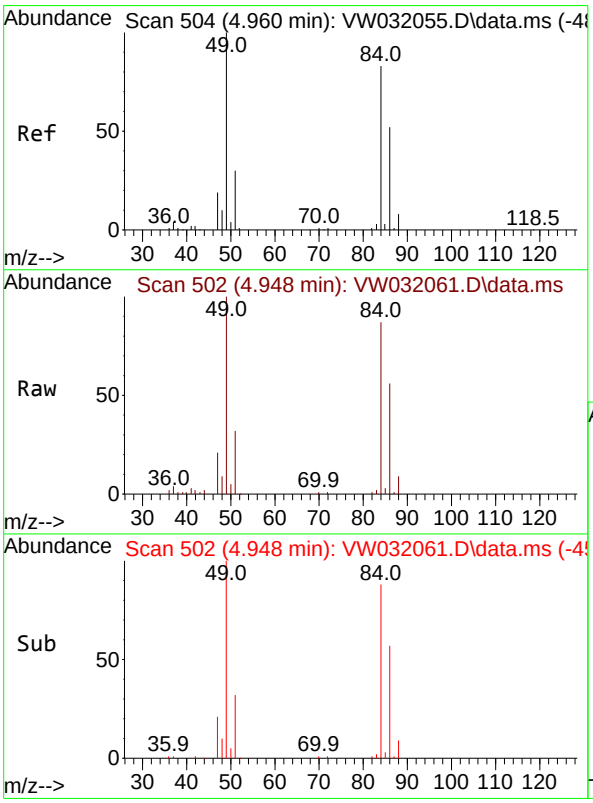
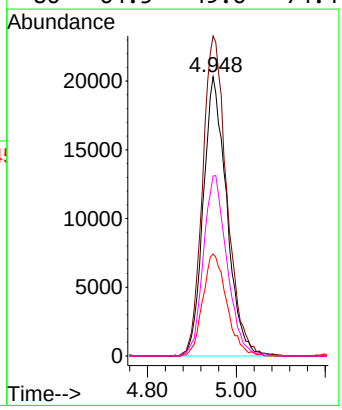
Supervised By :Semsettin Yesilyurt 08/12/2025

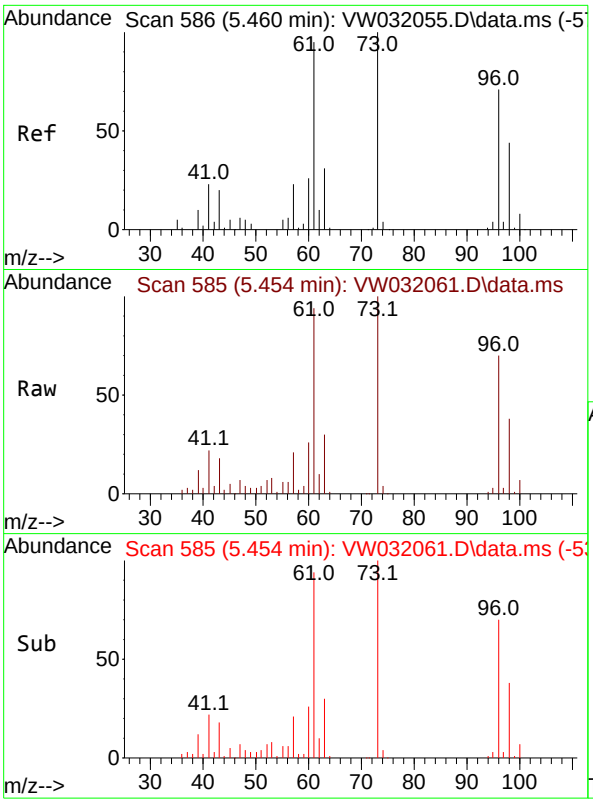



#20
Methylene Chloride
Concen: 21.408 ug/l
RT: 4.948 min Scan# 502
Delta R.T. -0.012 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 84 Resp: 74303

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 114.6 | 95.9 | 143.9 |
| 51 | 36.5 | 28.6 | 43.0 |
| 86 | 64.5 | 49.6 | 74.4 |

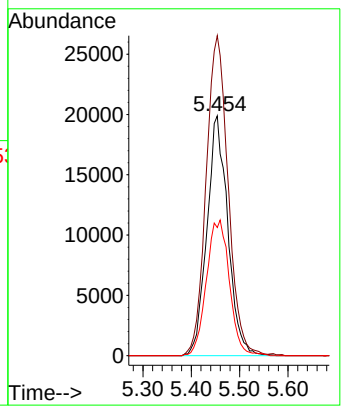





#21
trans-1,2-Dichloroethene
Concen: 20.698 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 96 Resp: 5971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 133.4 | 106.8 | 160.2 |
| 98 | 53.4 | 49.6 | 74.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

**Manual Integrations**
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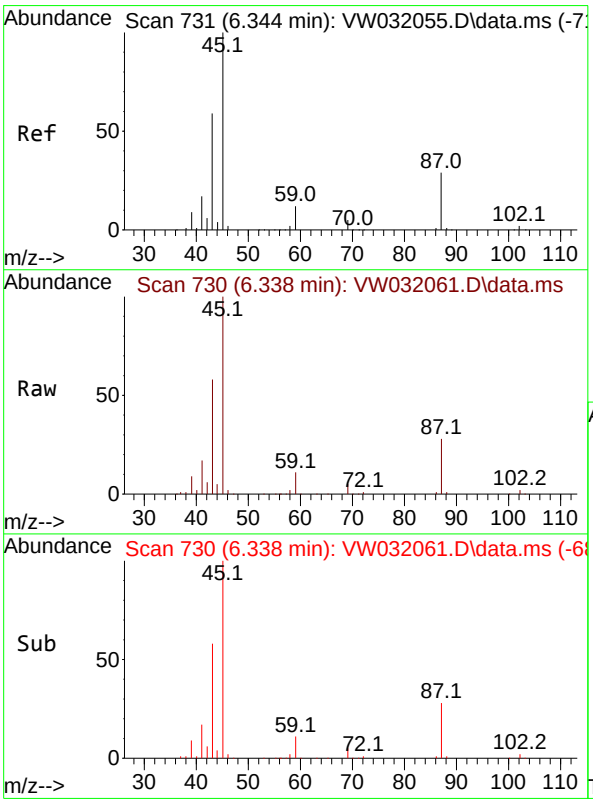
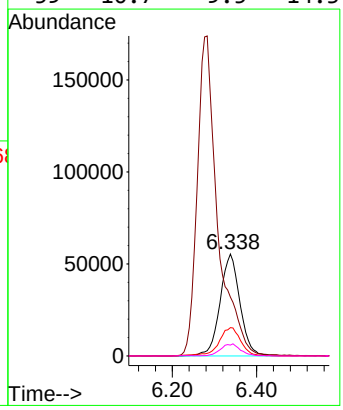
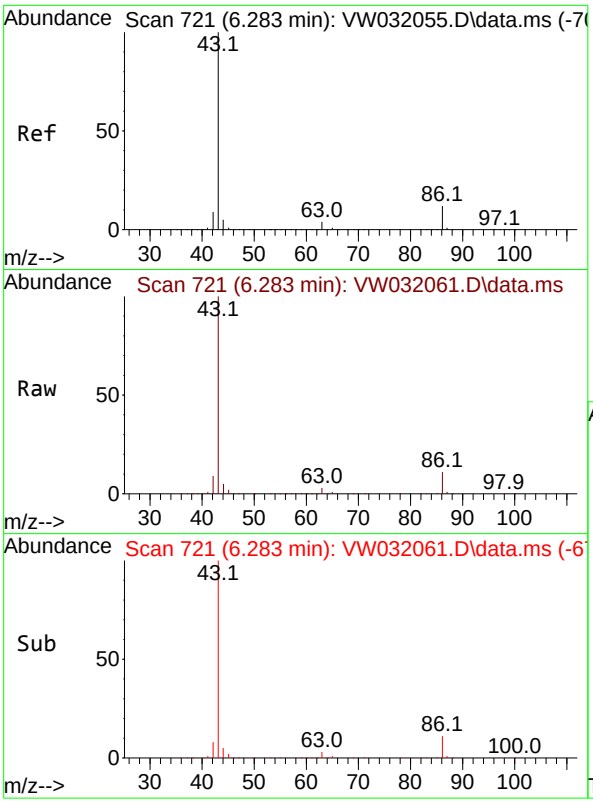



#22
Diisopropyl ether
Concen: 21.692 ug/l
RT: 6.338 min Scan# 730
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 45 Resp: 180946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 57.4 | 47.0 | 70.4 |
| 87 | 27.9 | 23.8 | 35.8 |
| 59 | 10.7 | 9.5 | 14.3 |






#23
Vinyl Acetate
Concen: 106.987 ug/l
RT: 6.283 min Scan# 7
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 43 Resp: 58594

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.2 | 9.4 | 14.0 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

**Manual Integrations**
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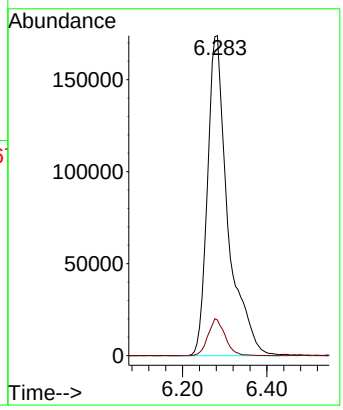
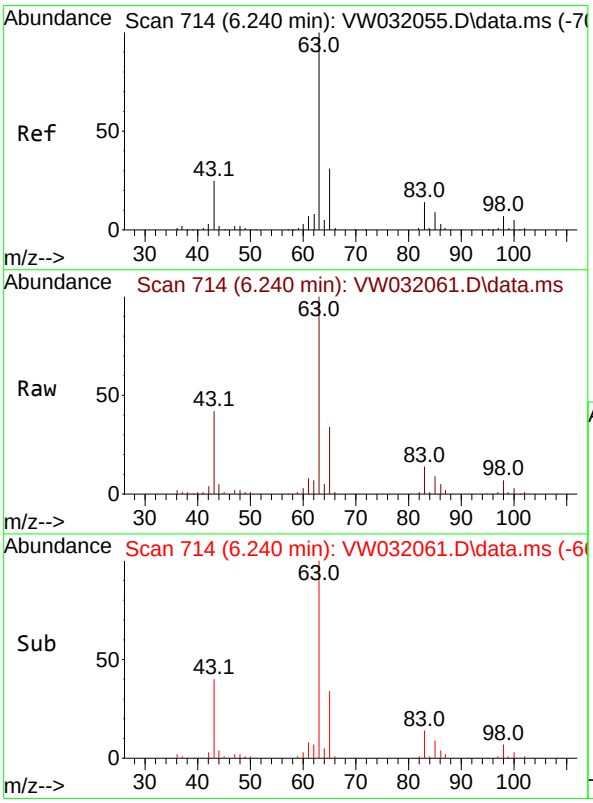
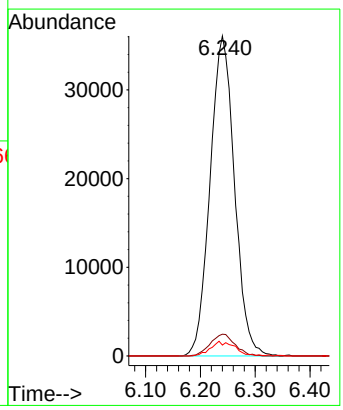


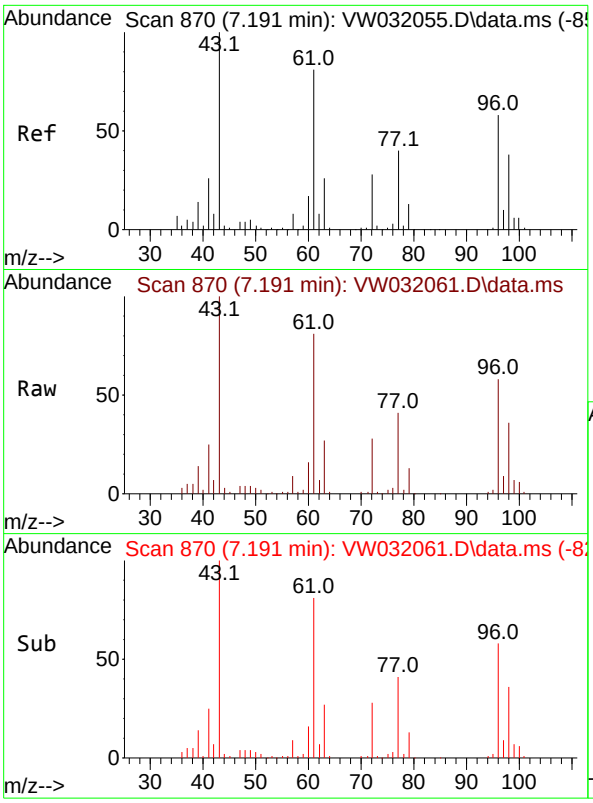




#24
1,1-Dichloroethane
Concen: 20.971 ug/l
RT: 6.240 min Scan# 714
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 63 Resp: 111769

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.8 | 3.7 | 11.1 |
| 100 | 3.4 | 2.5 | 7.4 |

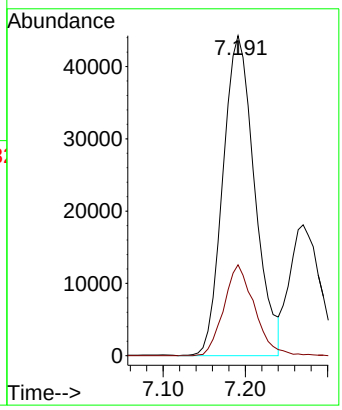





#25
2-Butanone
Concen: 111.594 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 43 Resp: 11905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 28.4 | 22.3 | 33.5 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

**Manual Integrations**
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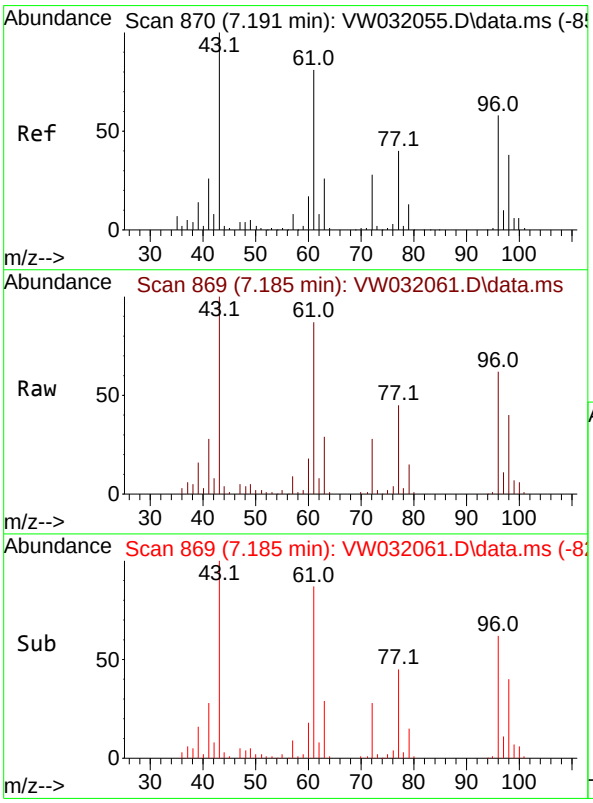
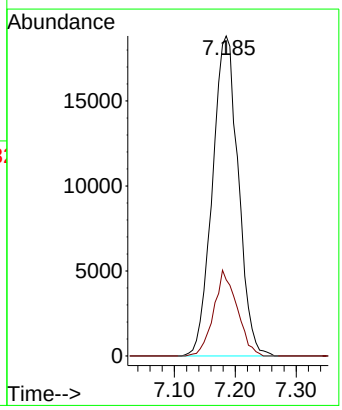
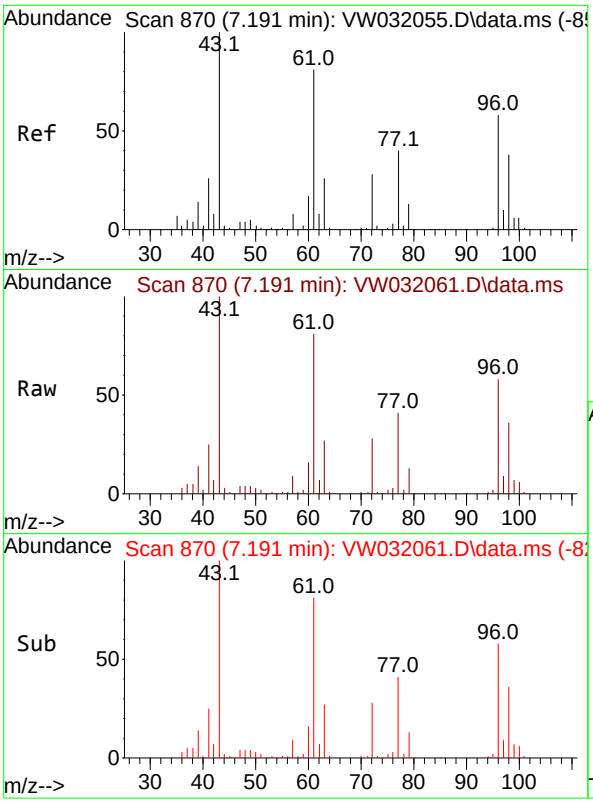



#26
2,2-Dichloropropane
Concen: 20.753 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 77 Resp: 55490

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 24.2 | 12.3 | 36.9 |






#27
cis-1,2-Dichloroethene
Concen: 21.221 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 96 Resp: 7156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 136.3 | 0.0 | 281.2 |
| 98 | 63.8 | 0.0 | 130.8 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

**Manual Integrations**
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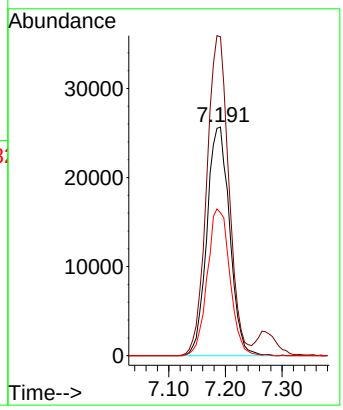
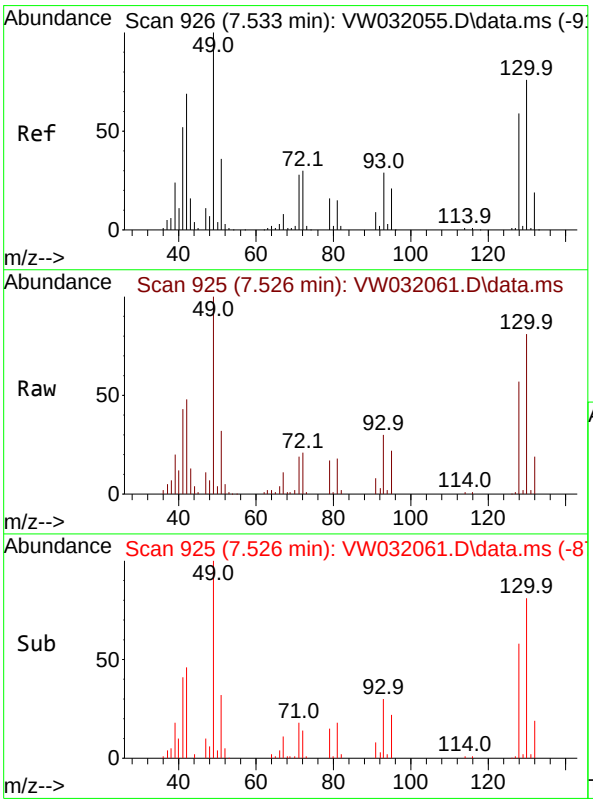
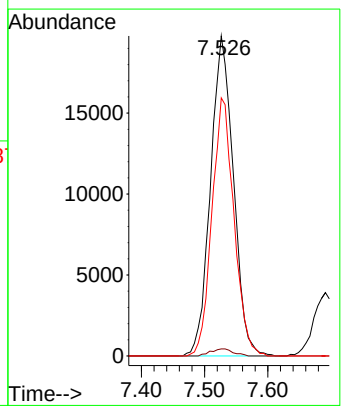


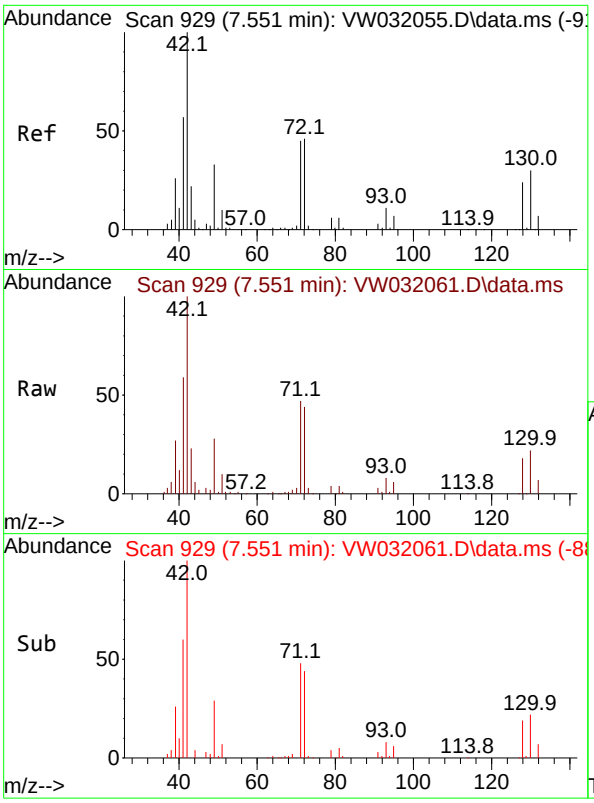




#28
Bromochloromethane
Concen: 20.501 ug/l
RT: 7.526 min Scan# 925
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 49 Resp: 49722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.2 | 0.0 | 4.2 |
| 130 | 77.6 | 61.9 | 92.9 |

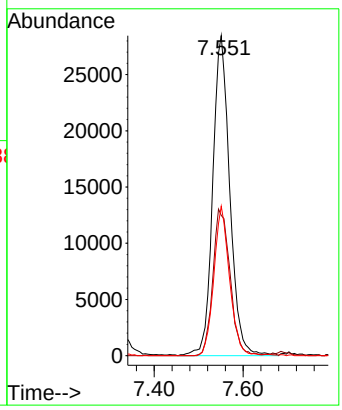





#29
Tetrahydrofuran
Concen: 107.756 ug/l
RT: 7.551 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 42 Resp: 7581

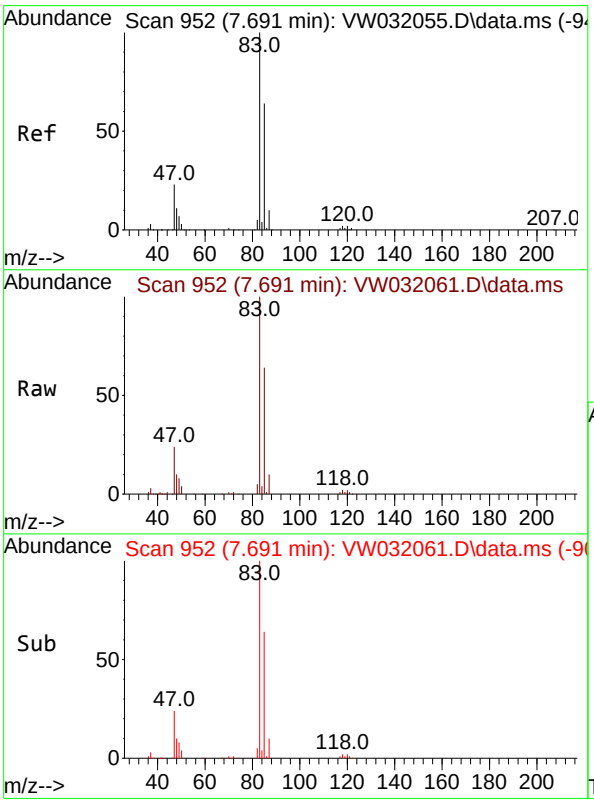
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 46.0 | 36.6 | 55.0 |
| 71 | 43.0 | 34.7 | 52.1 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

**Manual Integrations**
**APPROVED**

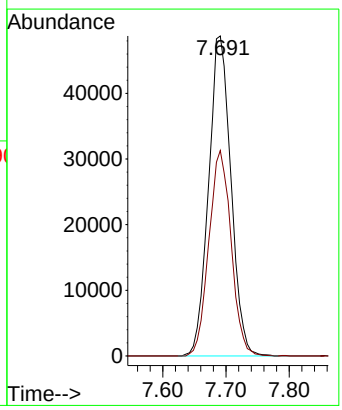
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

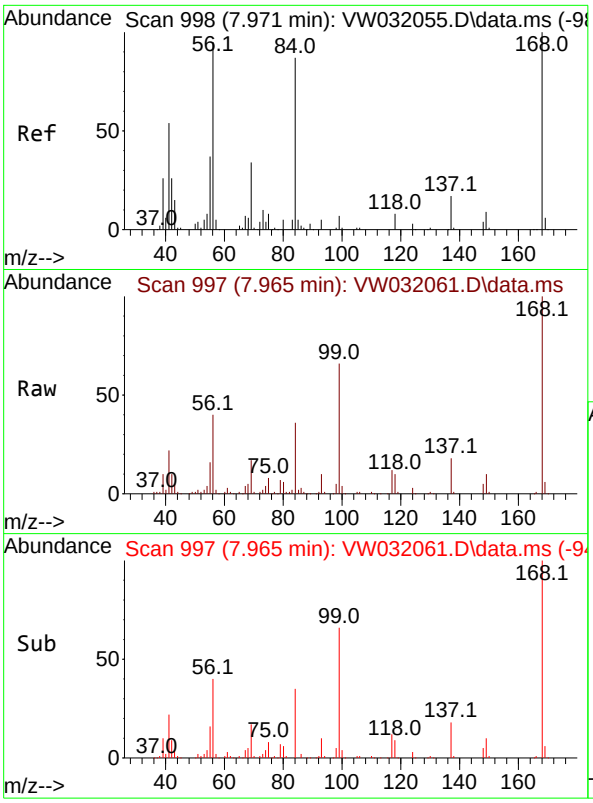



#30
Chloroform
Concen: 21.137 ug/l
RT: 7.691 min Scan# 952
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 83 Resp: 119431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.2 | 51.0 | 76.4 |

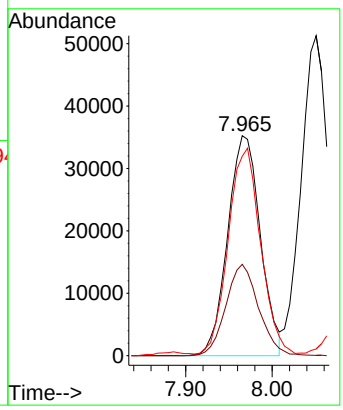





#31
Cyclohexane
Concen: 19.992 ug/l
RT: 7.965 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 56 Resp: 9237

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 41.5 | 28.6 | 42.8 |
| 84 | 89.3 | 73.0 | 109.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

**Manual Integrations**
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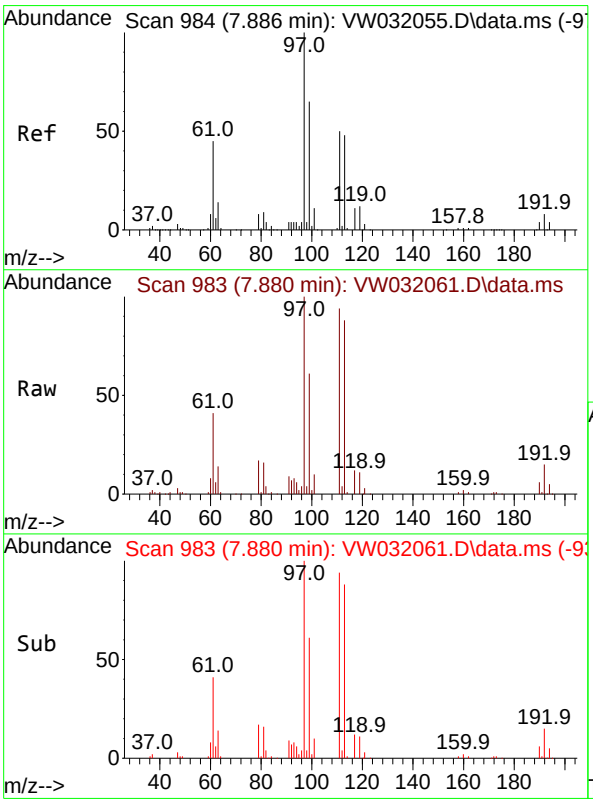
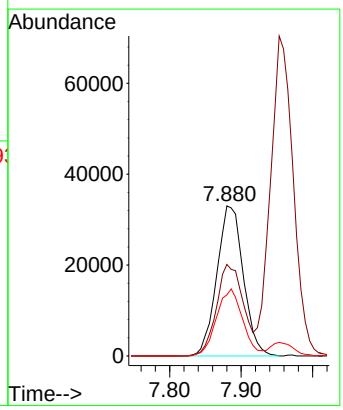
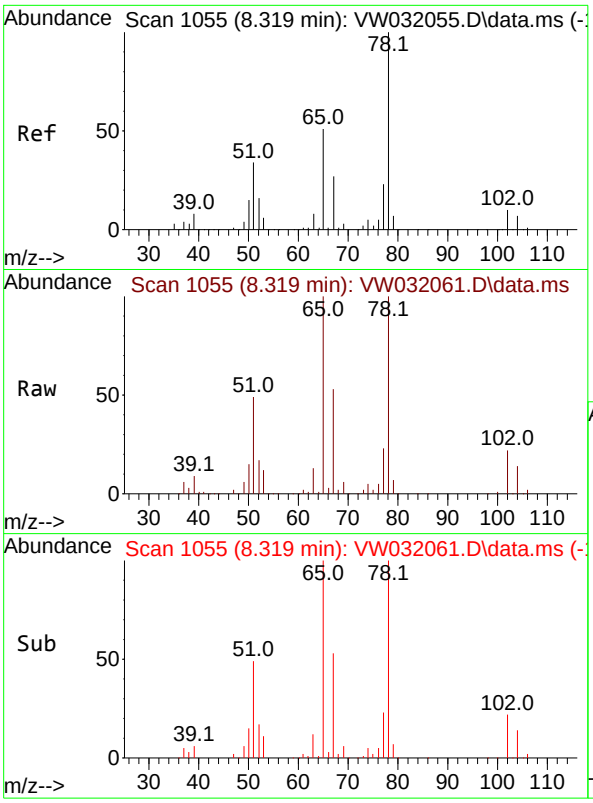



#32
1,1,1-Trichloroethane
Concen: 20.707 ug/l
RT: 7.880 min Scan# 983
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 97 Resp: 84982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 61.5 | 51.8 | 77.8 |
| 61 | 44.0 | 35.9 | 53.9 |

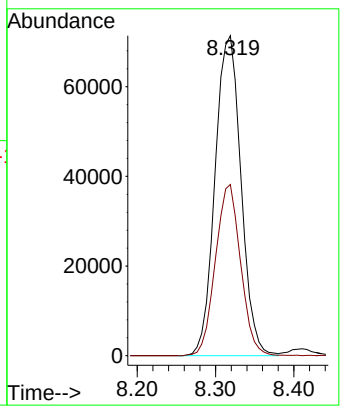





#33
1,2-Dichloroethane-d4
Concen: 50.753 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 65 Resp: 16455

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.9 | 0.0 | 102.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

**Manual Integrations**
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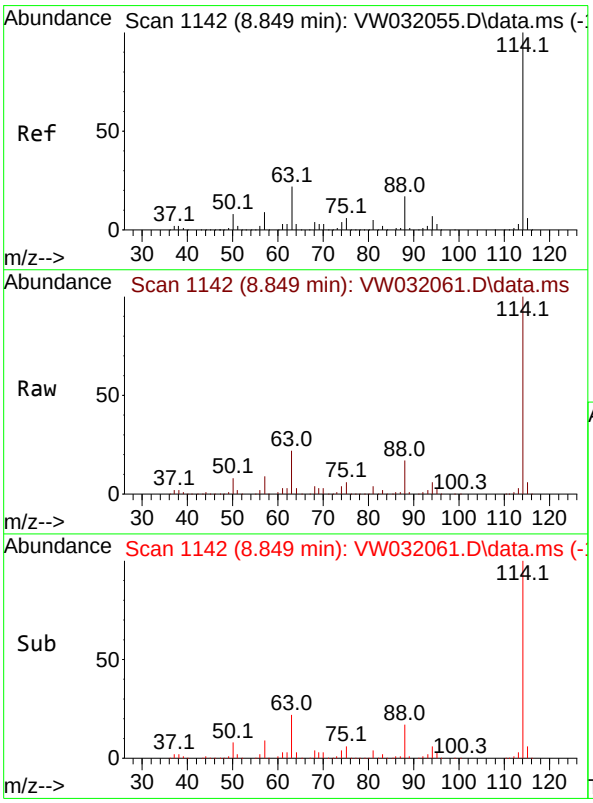
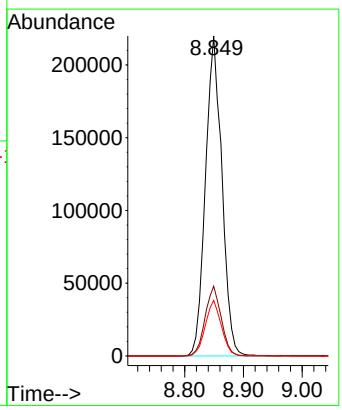
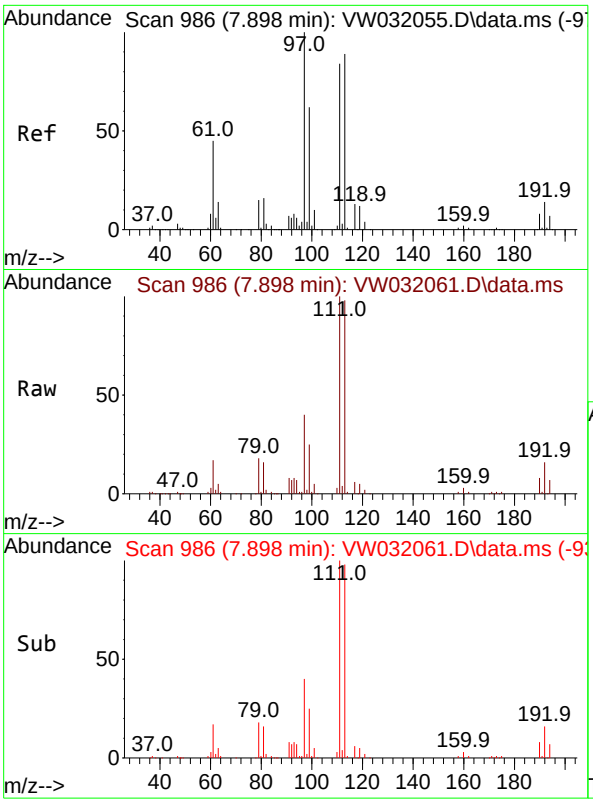



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:114 Resp: 427747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.8 | 0.0 | 43.0 |
| 88 | 17.3 | 0.0 | 33.8 |






#35
Dibromofluoromethane
Concen: 48.883 ug/l
RT: 7.898 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:113 Resp: 13508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.1 | 80.1 | 120.1 |
| 192 | 16.5 | 13.1 | 19.7 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

**Manual Integrations**
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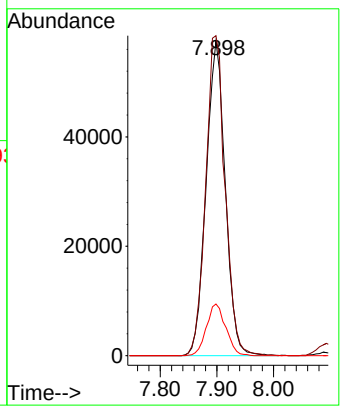
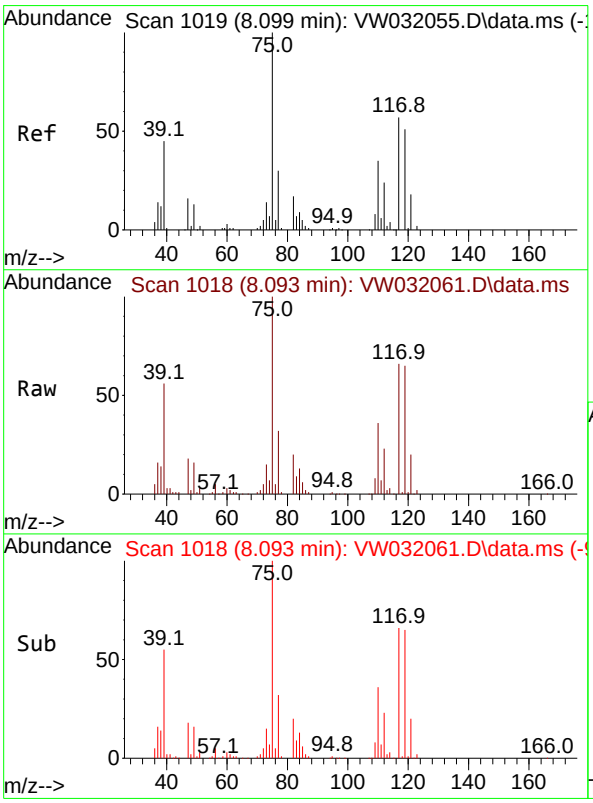
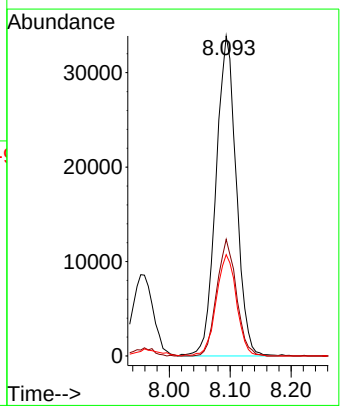


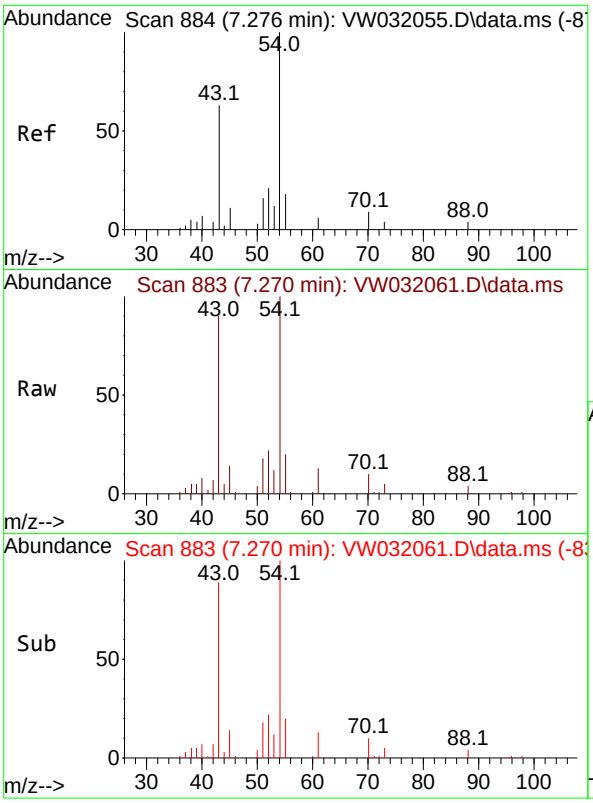




#36
1,1-Dichloropropene
Concen: 20.161 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 75 Resp: 78541

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.2 | 17.4 | 52.2 |
| 77 | 31.7 | 24.7 | 37.1 |






#37
Ethyl Acetate
Concen: 20.977 ug/l
RT: 7.270 min Scan# 8
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 43 Resp: 4813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.0 | 11.8 | 17.6 |
| 70 | 11.7 | 9.4 | 14.0 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

**Manual Integrations**
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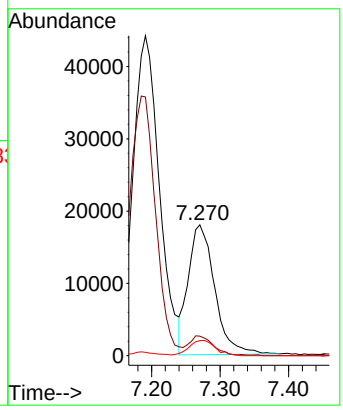
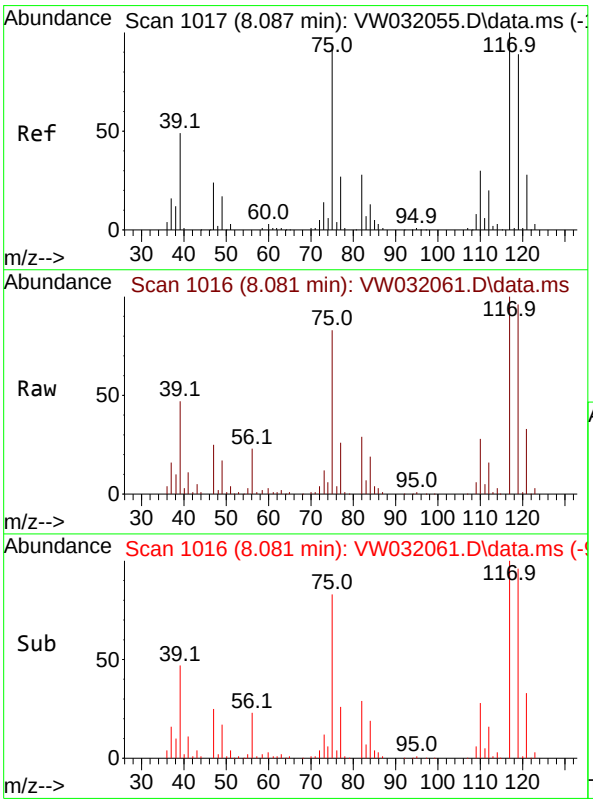
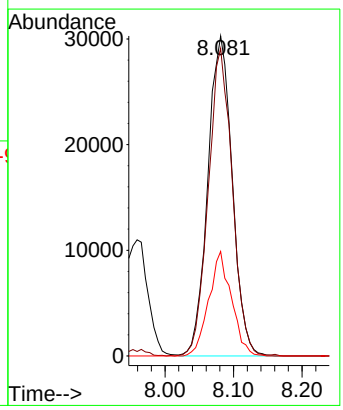


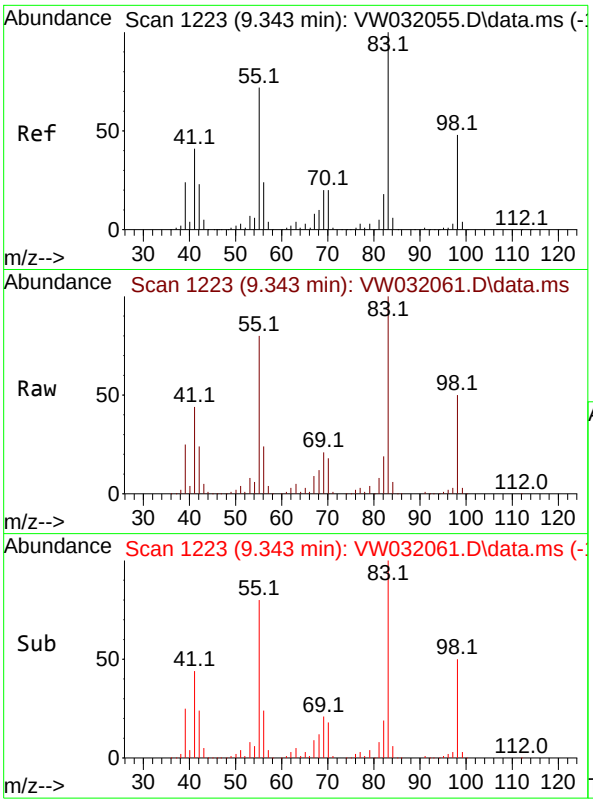




#38
Carbon Tetrachloride
Concen: 19.971 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:117 Resp: 75079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.9 | 71.4 | 107.2 |
| 121 | 32.6 | 22.3 | 33.5 |

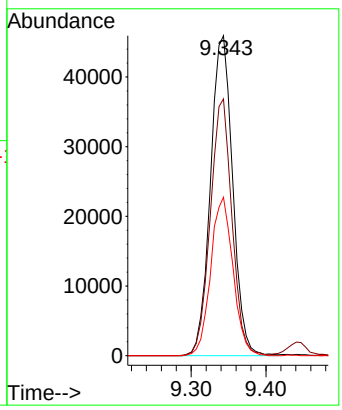





#39
Methylcyclohexane
Concen: 20.000 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 83 Resp: 9496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 80.3 | 57.9 | 86.9 |
| 98 | 49.5 | 38.3 | 57.5 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

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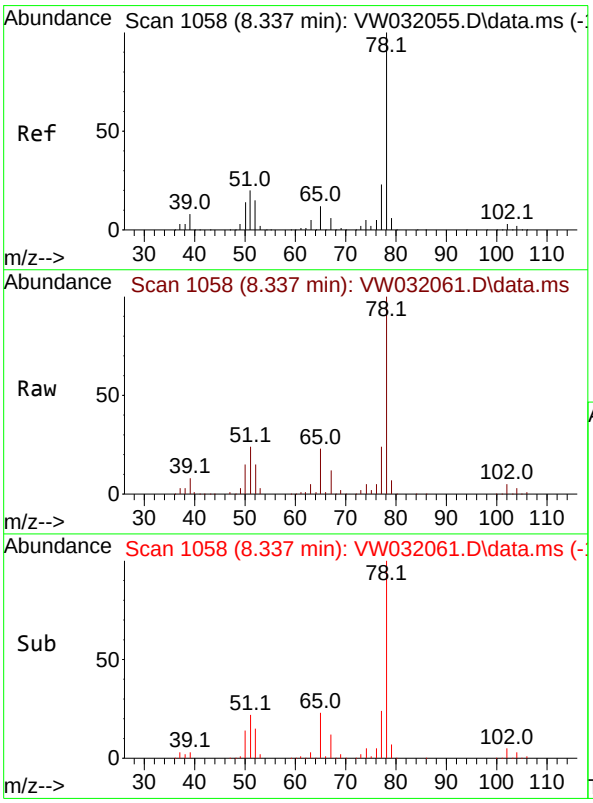
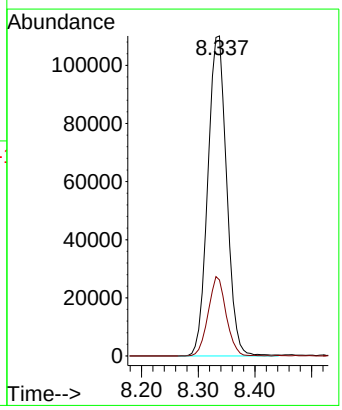
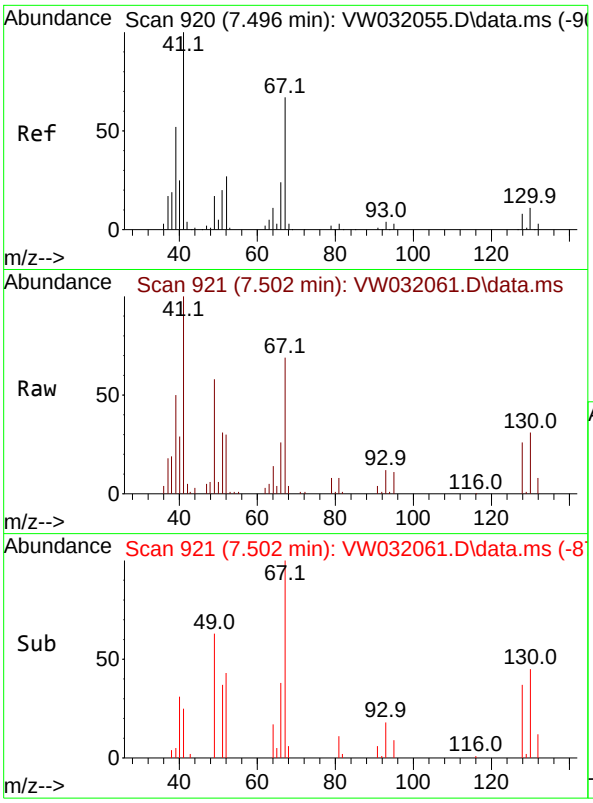



#40
Benzene
Concen: 20.993 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 78 Resp: 254209

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.7 | 18.4 | 27.6 |

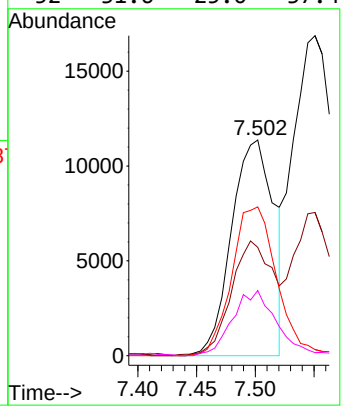





#41
Methacrylonitrile
Concen: 21.963 ug/l
RT: 7.502 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 41 Resp: 2857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 52.5 | 42.6 | 63.8 |
| 67 | 73.7 | 61.0 | 91.4 |
| 52 | 31.6 | 25.0 | 37.4 |




**Instrument :**
MSVOA_W
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**Manual Integrations**
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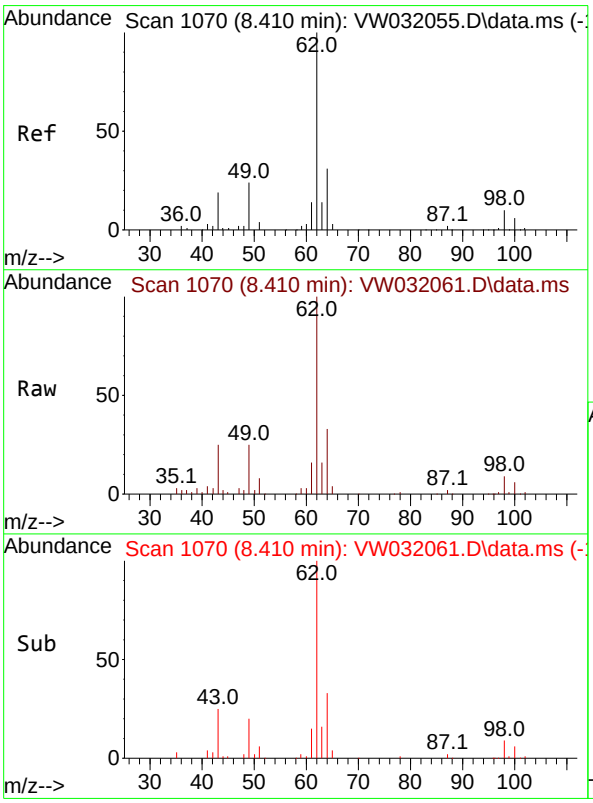
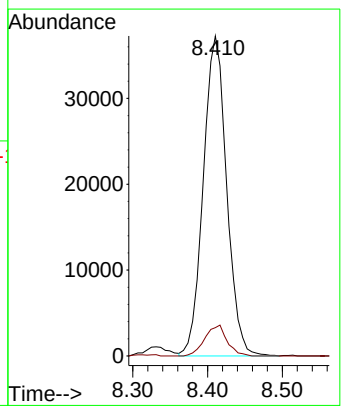
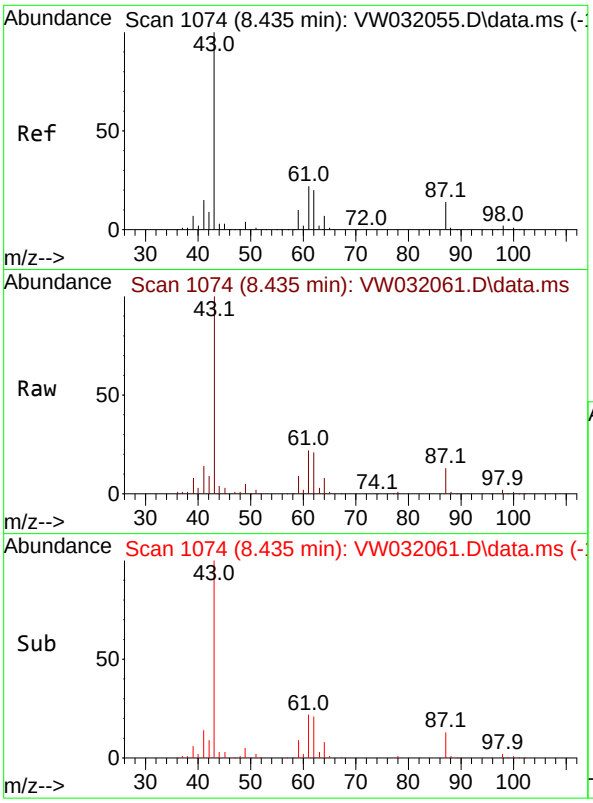



#42
1,2-Dichloroethane
Concen: 20.917 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 62 Resp: 81049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.2 | 0.0 | 19.8 |

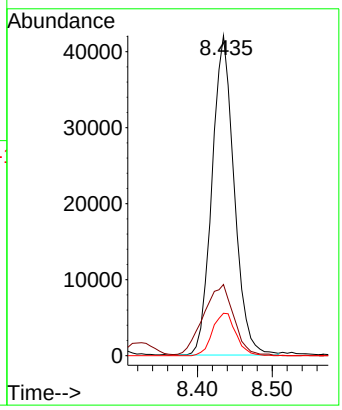





#43
Isopropyl Acetate
Concen: 20.509 ug/l
RT: 8.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 43 Resp: 8657

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 30.6 | 23.8 | 35.8 |
| 87 | 14.1 | 11.7 | 17.5 |




**Instrument :**
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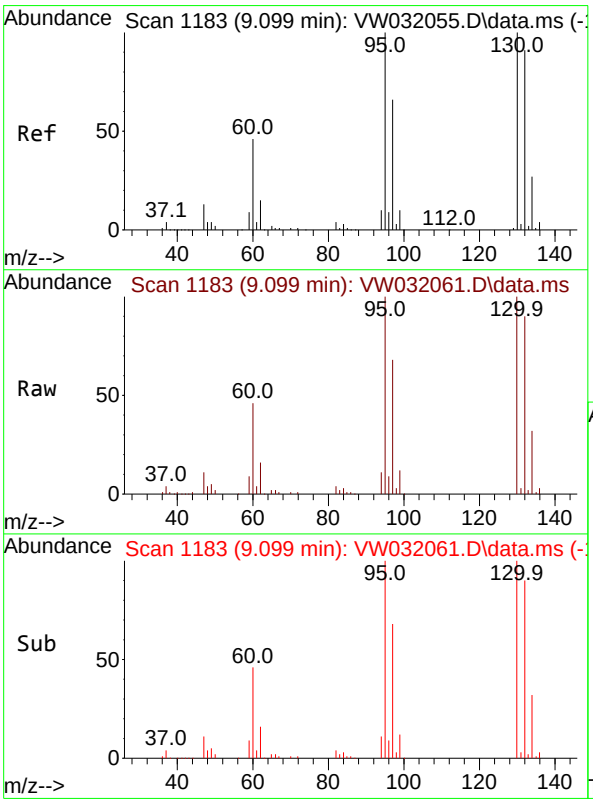
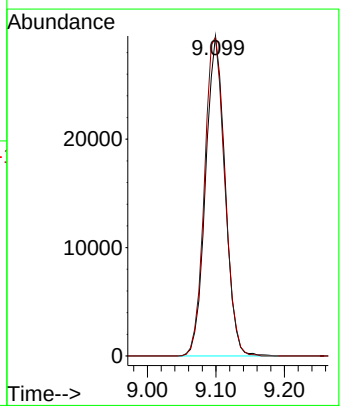
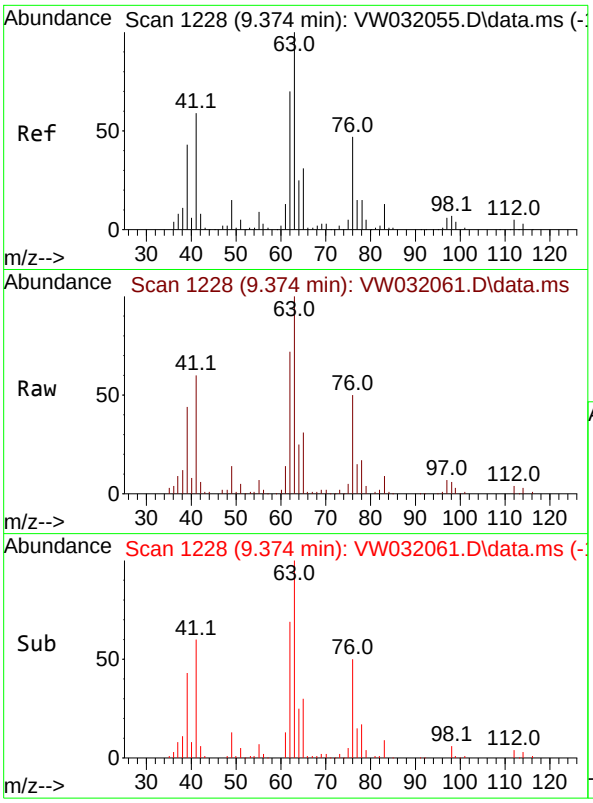



#44
Trichloroethene
Concen: 20.238 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:130 Resp: 58362

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 99.6 | 0.0 | 200.6 |

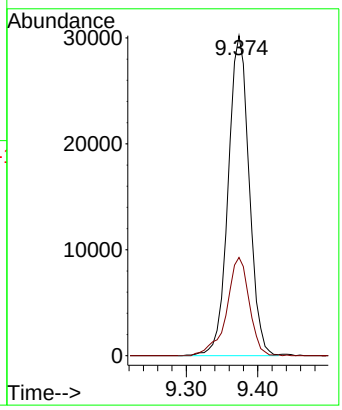





#45
1,2-Dichloropropane
Concen: 20.998 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 63 Resp: 6143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.7 | 24.6 | 36.8 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

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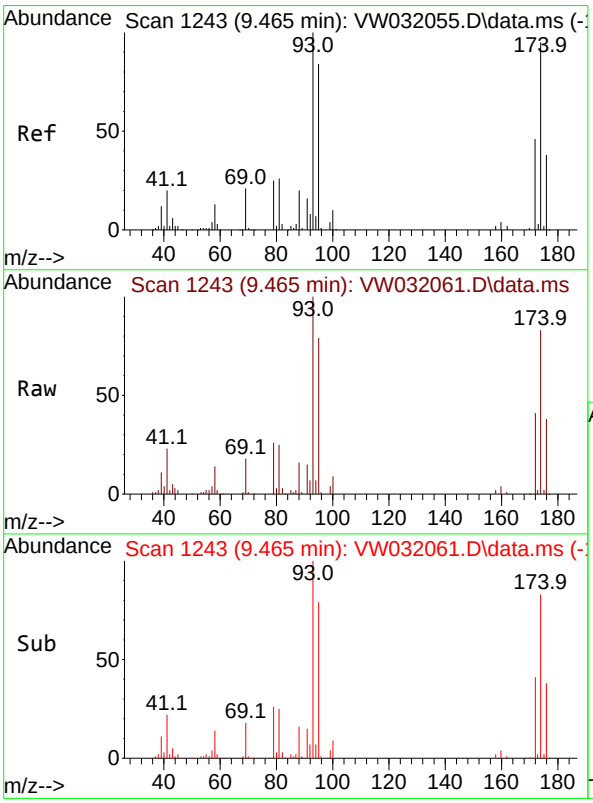
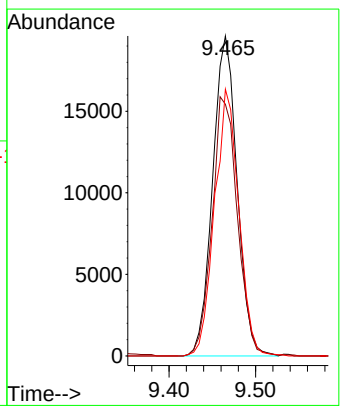
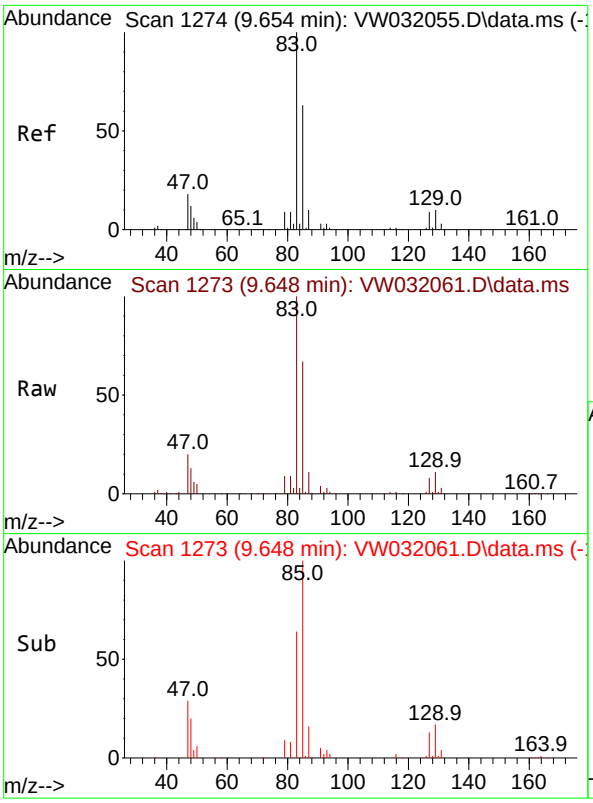



#46
Dibromomethane
Concen: 20.389 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 93 Resp: 38496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 84.1 | 65.3 | 97.9 |
| 174 | 82.6 | 68.6 | 102.8 |

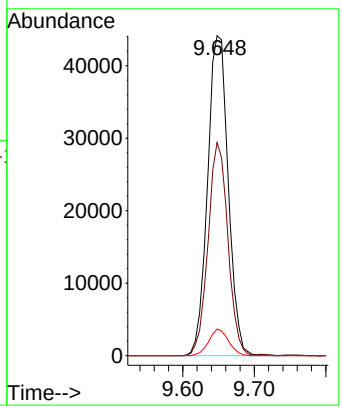





#47
Bromodichloromethane
Concen: 20.356 ug/l
RT: 9.648 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 83 Resp: 8856

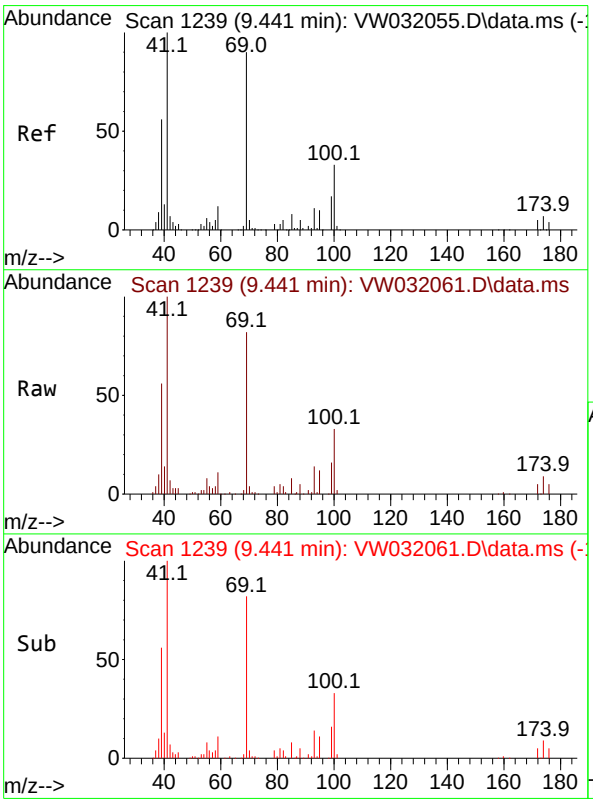
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 66.6 | 50.6 | 75.8 |
| 127 | 8.4 | 6.9 | 10.3 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

**Manual Integrations**
**APPROVED**

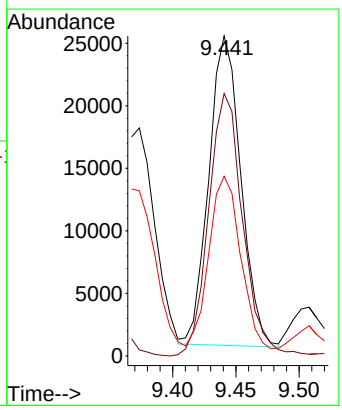
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

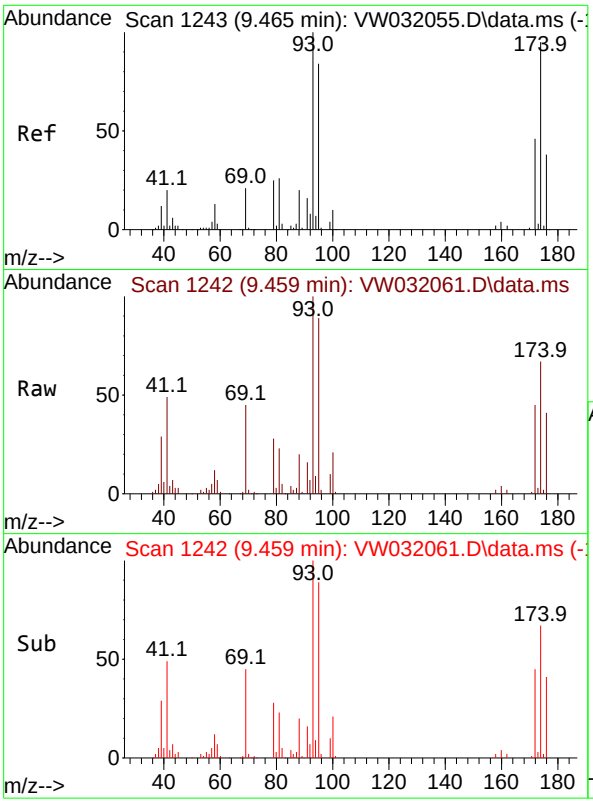



#48
Methyl methacrylate
Concen: 21.354 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 41 Resp: 43518

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 90.8 | 73.0 | 109.6 |
| 39 | 59.7 | 45.0 | 67.4 |






#49
1,4-Dioxane
Concen: 397.829 ug/l
RT: 9.459 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 88 Resp: 971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 24.9 | 20.6 | 30.8 |
| 58 | 78.3 | 60.4 | 90.6 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

**Manual Integrations**
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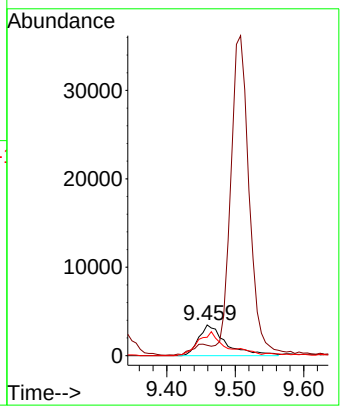
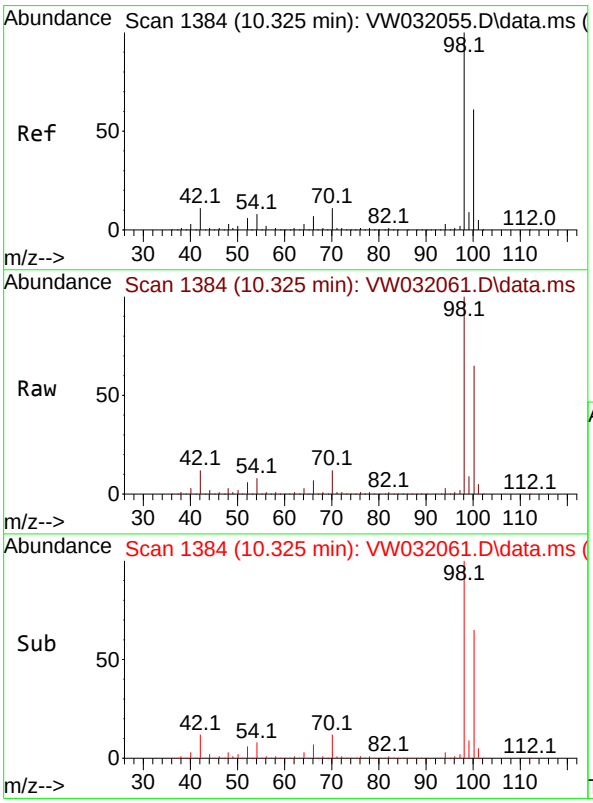
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

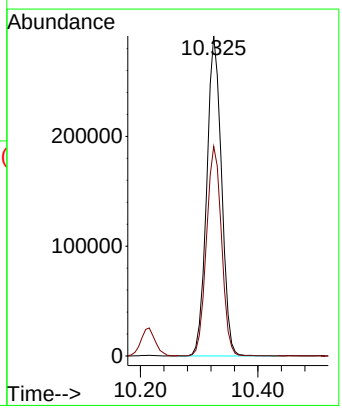


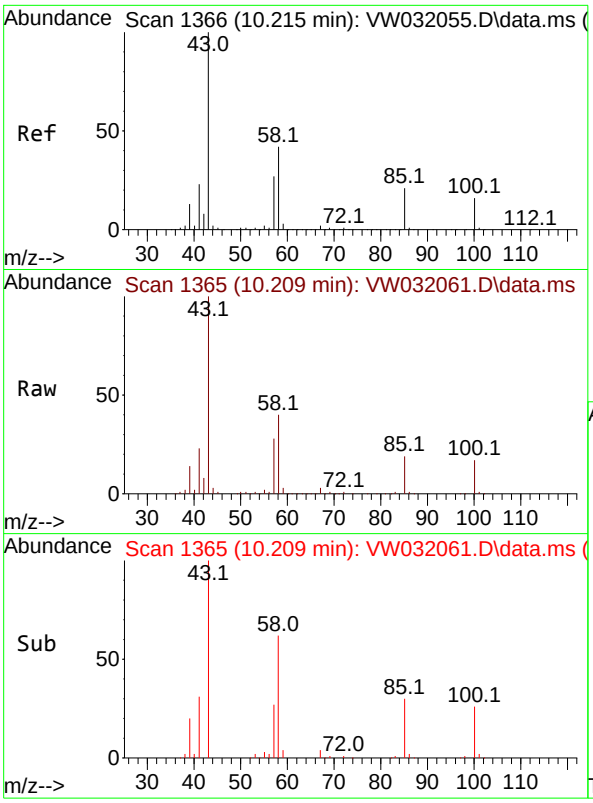




#50
Toluene-d8
Concen: 49.765 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 98 Resp: 508647

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.6 | 51.1 | 76.7 |

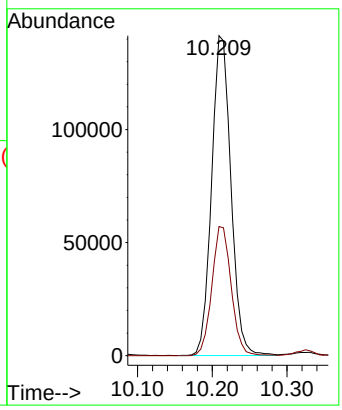





#51
4-Methyl-2-Pentanone
Concen: 106.423 ug/l
RT: 10.209 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 43 Resp: 25356

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 40.5 | 33.1 | 49.7 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

**Manual Integrations**
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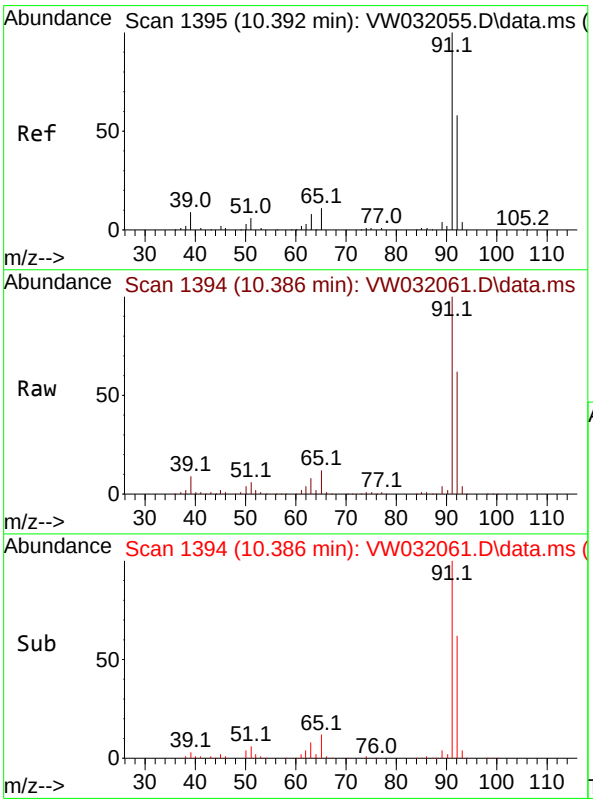
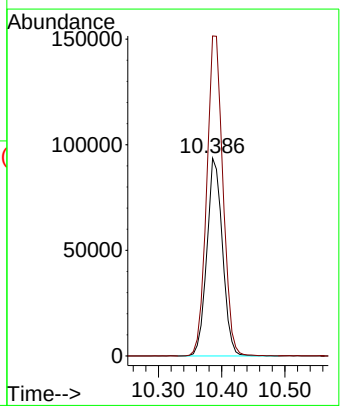
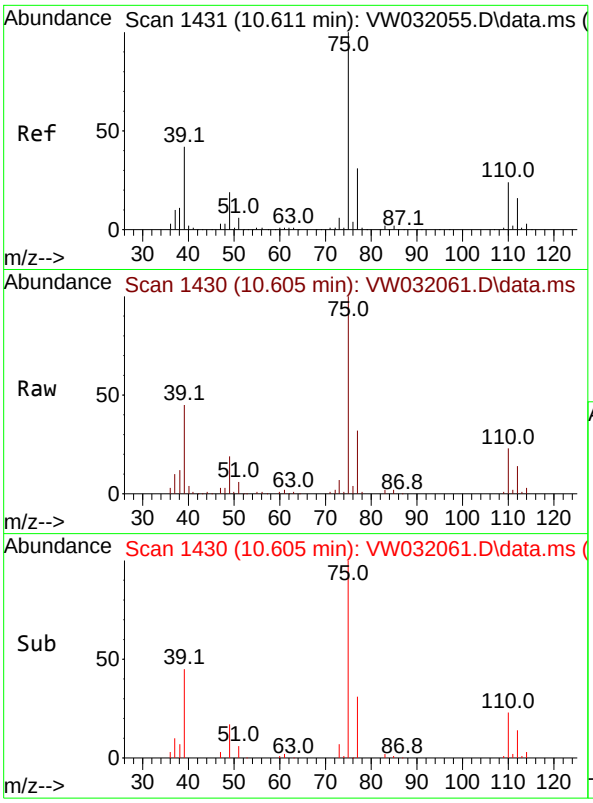



#52
Toluene
Concen: 21.039 ug/l
RT: 10.386 min Scan# 1394
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 92 Resp: 160474

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 168.1 | 136.3 | 204.5 |

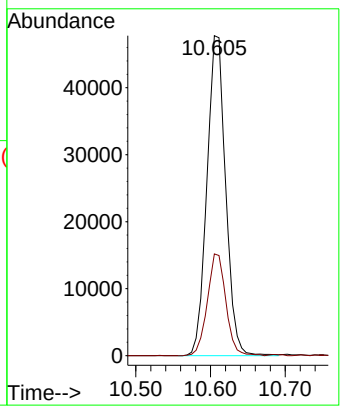





#53
t-1,3-Dichloropropene
Concen: 20.387 ug/l
RT: 10.605 min Scan# 14
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 75 Resp: 8309

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.8 | 25.0 | 37.6 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
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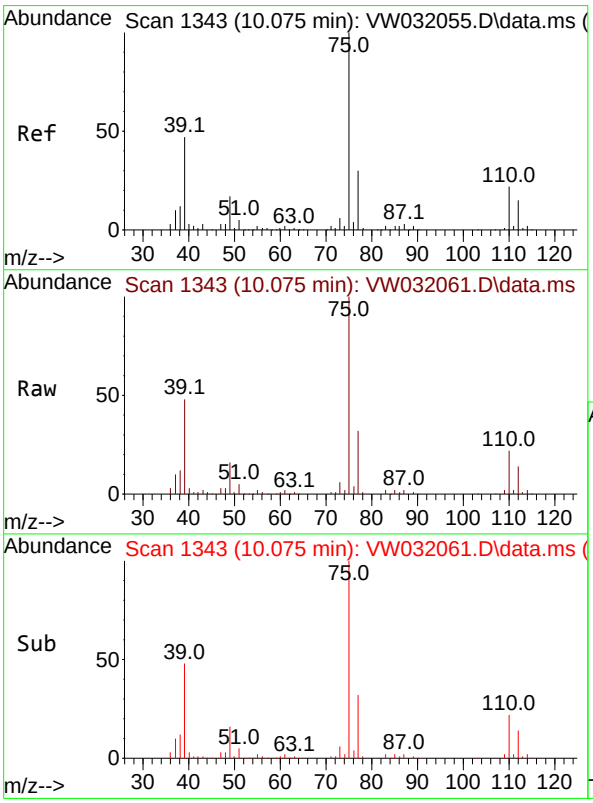
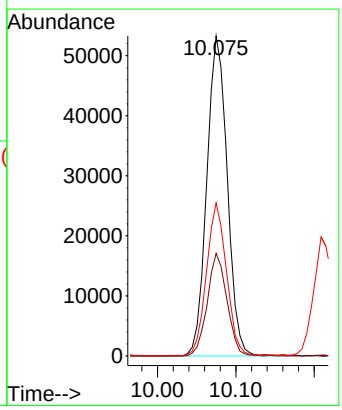
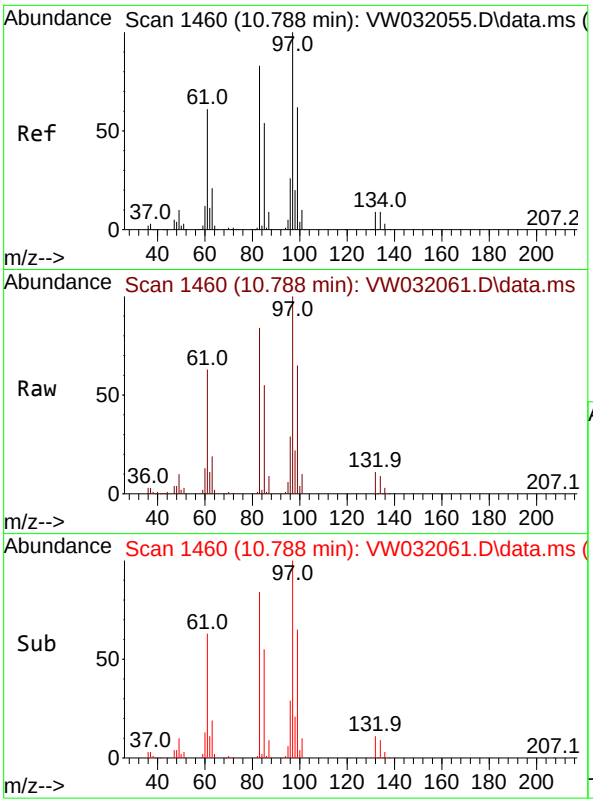



#54
cis-1,3-Dichloropropene
Concen: 20.866 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 75 Resp: 96489

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.1 | 24.0 | 36.0 |
| 39 | 47.7 | 37.8 | 56.8 |

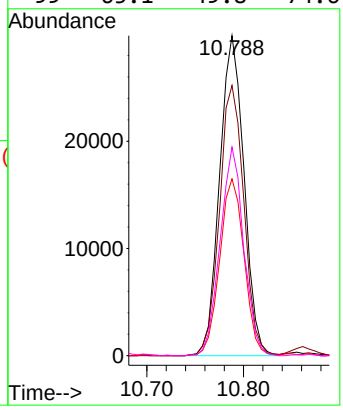





#55
1,1,2-Trichloroethane
Concen: 20.771 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 97 Resp: 5211

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 84.4 | 66.4 | 99.6 |
| 85 | 55.2 | 43.1 | 64.7 |
| 99 | 65.1 | 49.8 | 74.6 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

**Manual Integrations**
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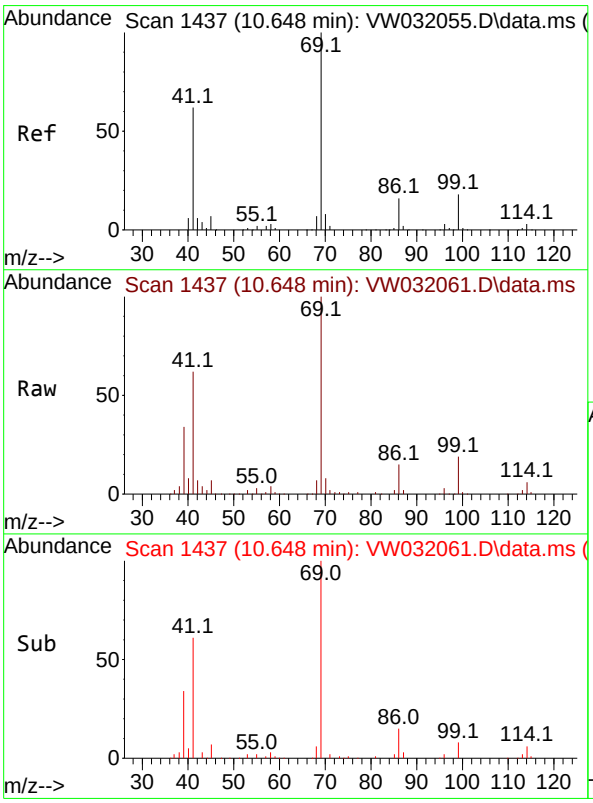
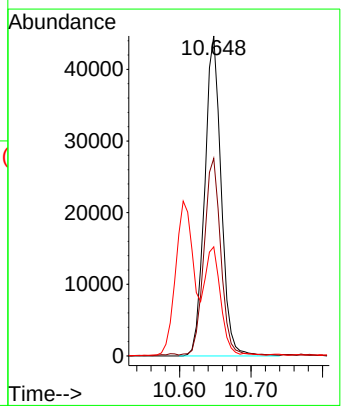
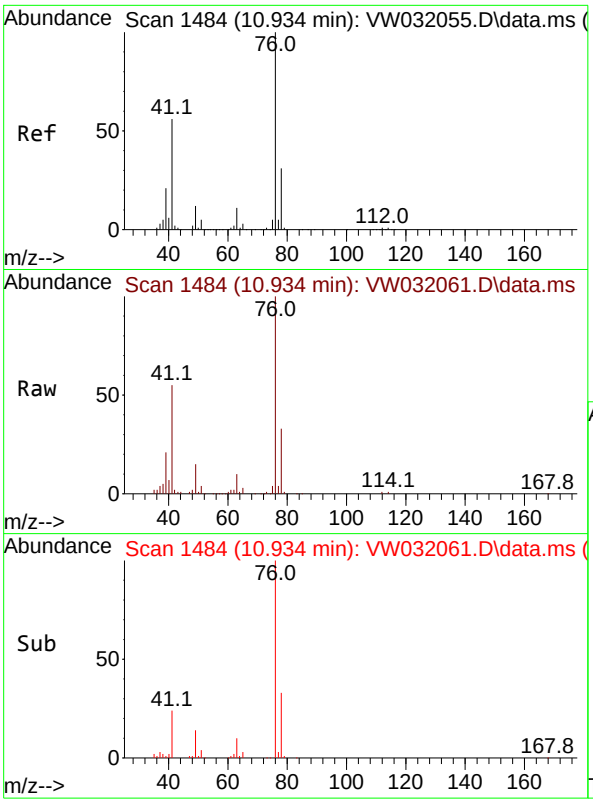



#56
Ethyl methacrylate
Concen: 21.293 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 69 Resp: 71491

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 62.3 | 51.2 | 76.8 |
| 39 | 31.8 | 25.4 | 38.0 |

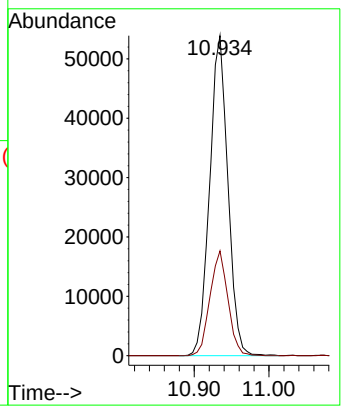





#57
1,3-Dichloropropane
Concen: 20.874 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 76 Resp: 9128

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.2 | 25.8 | 38.6 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

**Manual Integrations**
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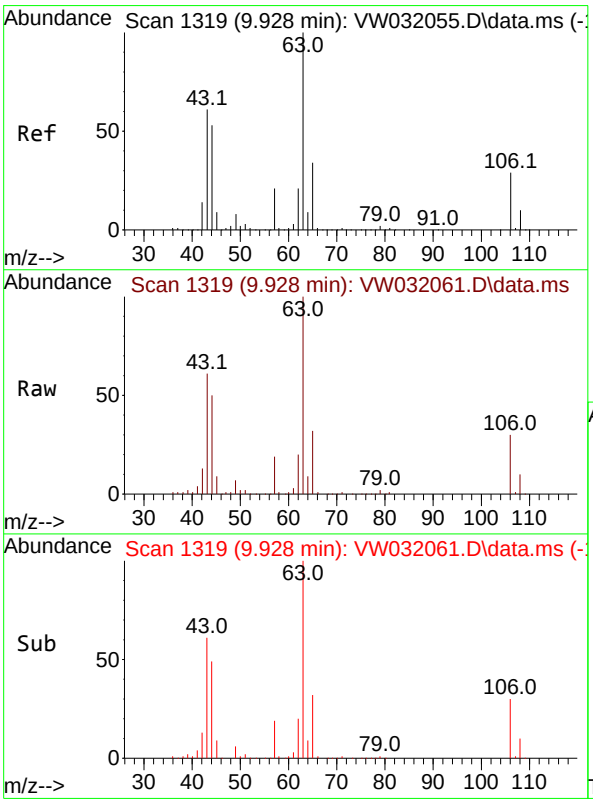
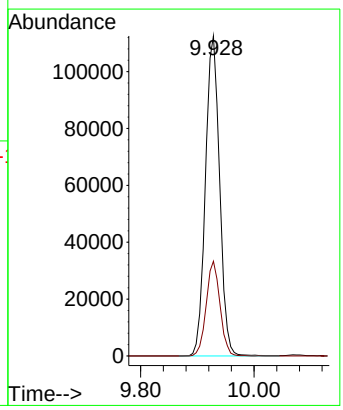
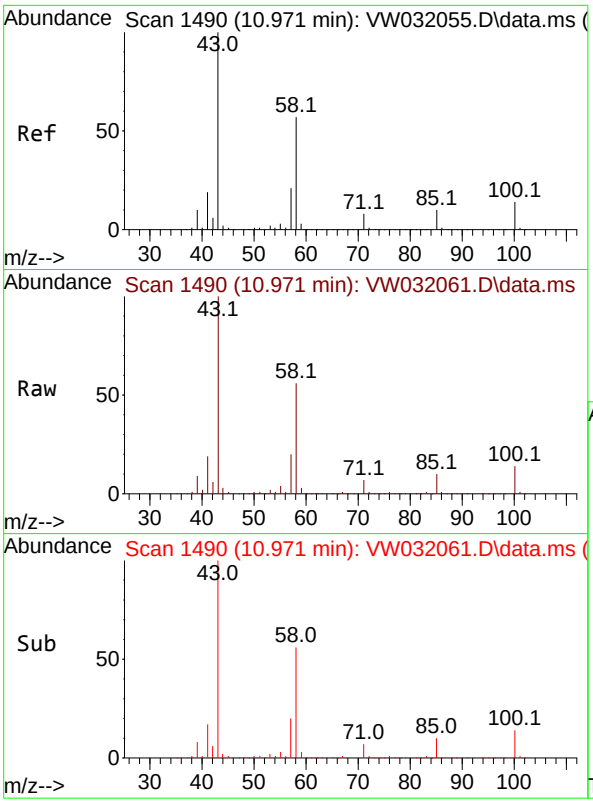



#58
2-Chloroethyl Vinyl ether
Concen: 105.002 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 63 Resp: 195002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 28.7 | 23.5 | 35.3 |

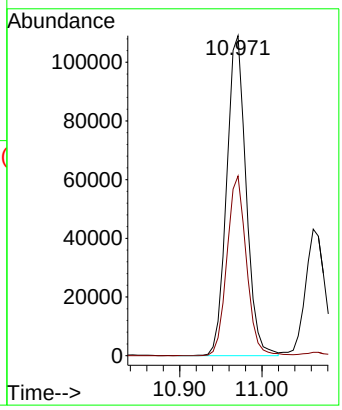





#59
2-Hexanone
Concen: 108.432 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 43 Resp: 17892

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 56.2 | 28.3 | 85.0 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

**Manual Integrations**
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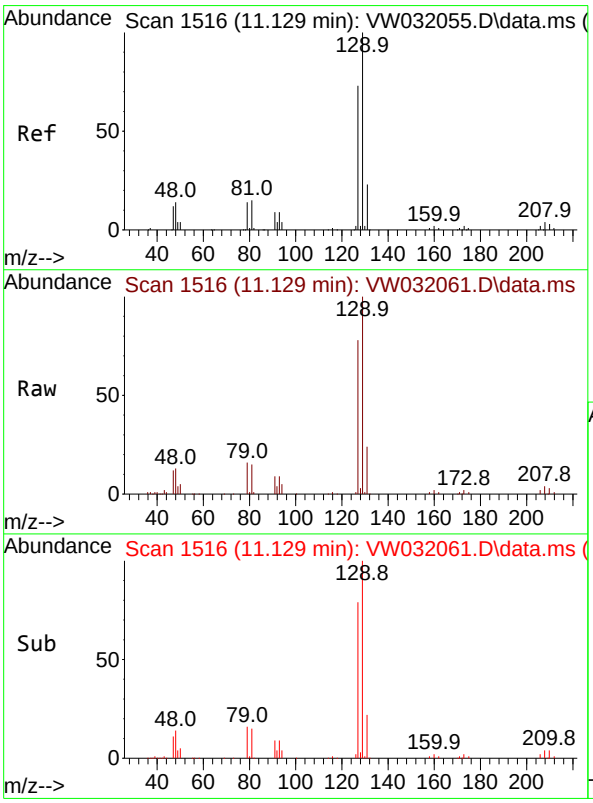
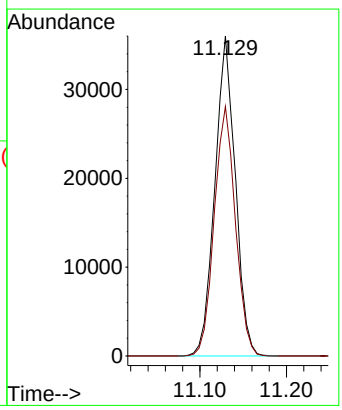
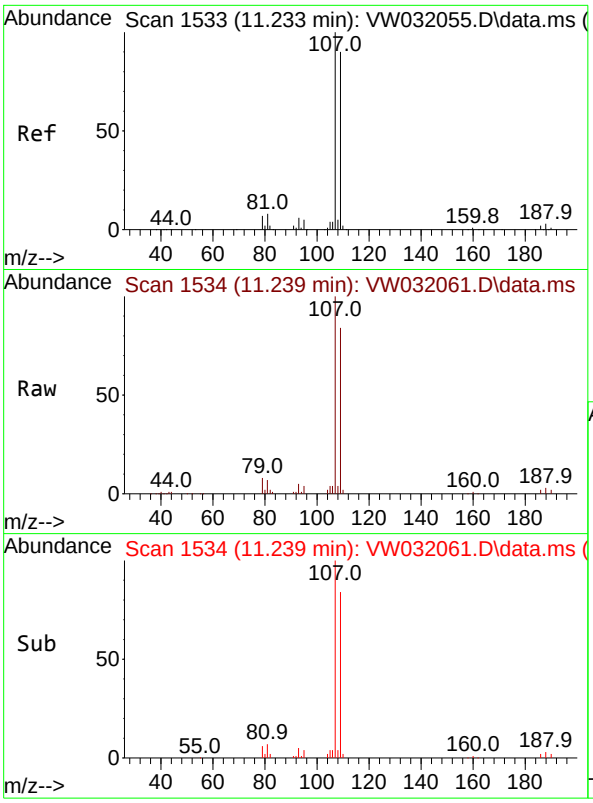



#60
Dibromochloromethane
Concen: 20.578 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:129 Resp: 58977

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 80.9 | 39.0 | 116.9 |






#61
1,2-Dibromoethane
Concen: 21.183 ug/l
RT: 11.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:107 Resp: 5164

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.1 | 74.2 | 111.4 |

**Instrument :**
MSVOA_W
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VW0811SBS01

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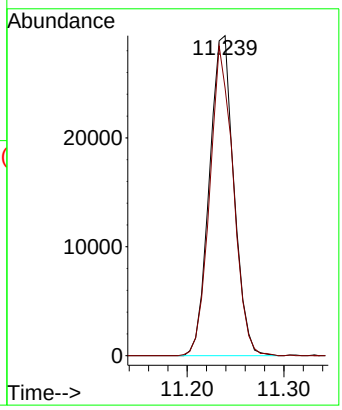
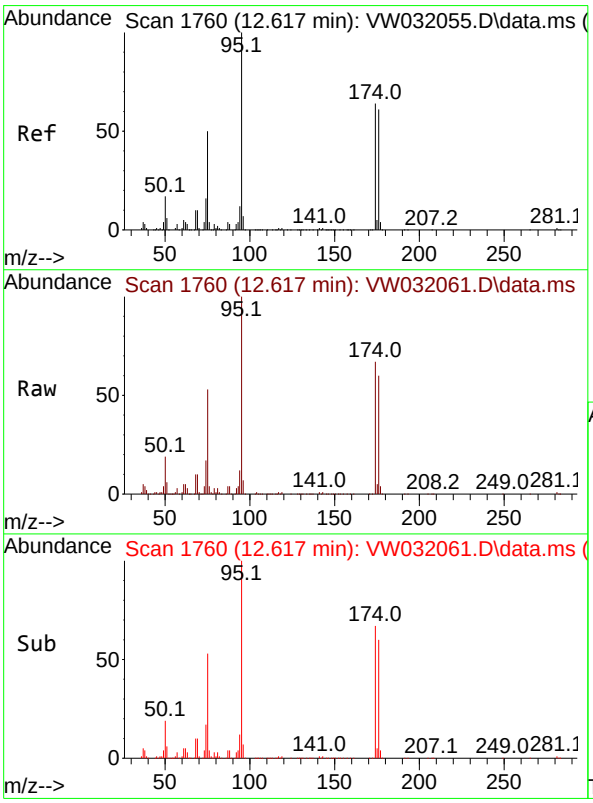
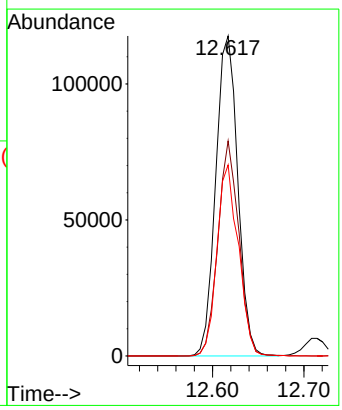


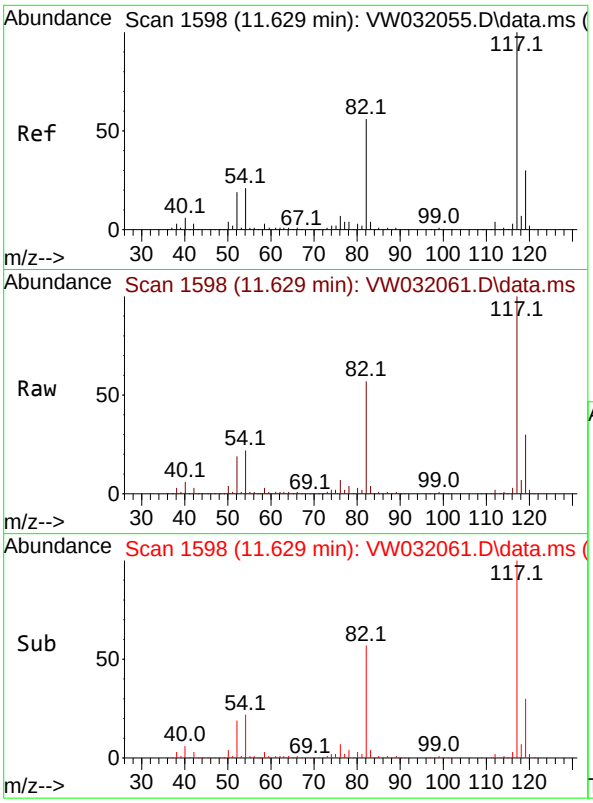




#62
4-Bromofluorobenzene
Concen: 52.373 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 95 Resp: 197267

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 63.9 | 0.0 | 129.0 |
| 176 | 58.2 | 0.0 | 124.6 |

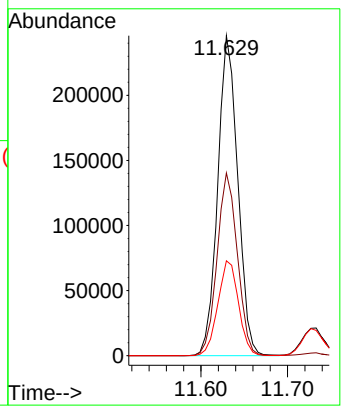





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:117 Resp: 39482

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.1 | 45.0 | 67.4 |
| 119 | 29.7 | 24.2 | 36.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

**Manual Integrations**
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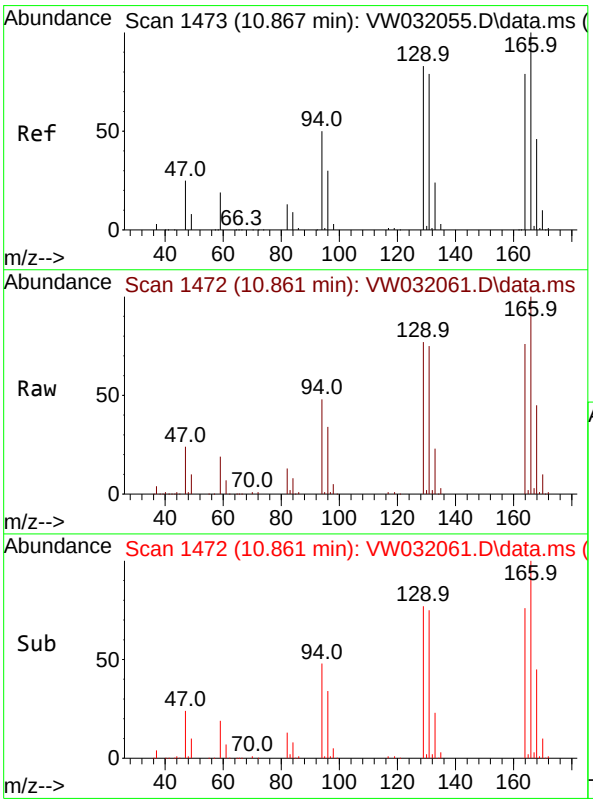
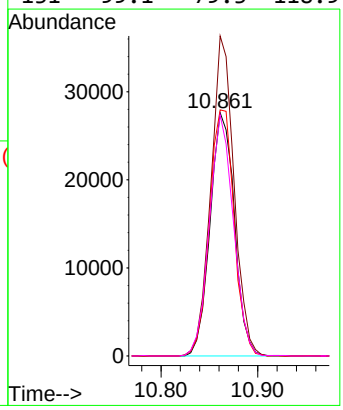
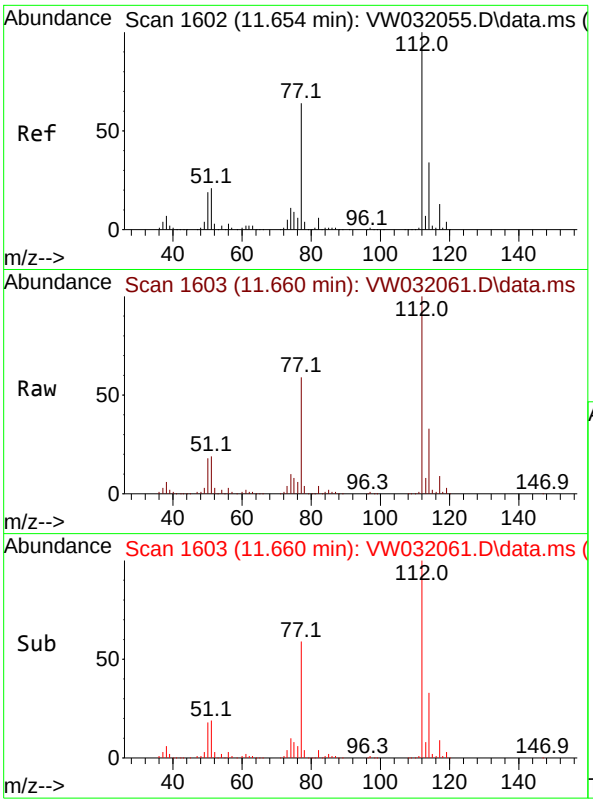



#64
Tetrachloroethene
Concen: 21.074 ug/l
RT: 10.861 min Scan# 1472
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:164 Resp: 48059

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 131.6 | 100.9 | 151.3 |
| 129 | 101.2 | 83.6 | 125.4 |
| 131 | 99.1 | 79.3 | 118.9 |

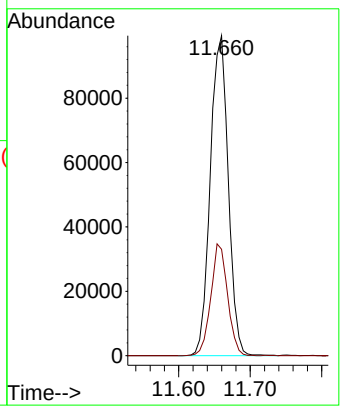





#65
Chlorobenzene
Concen: 20.189 ug/l
RT: 11.660 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:112 Resp: 17349

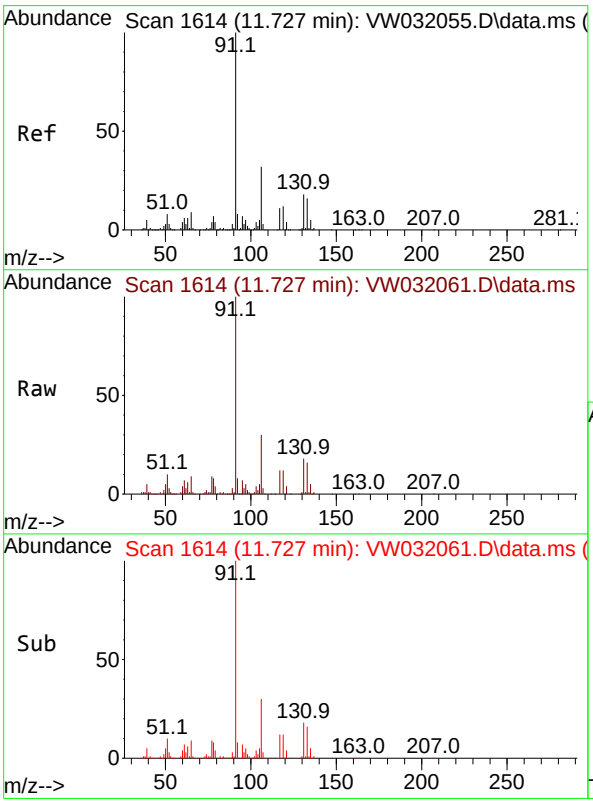
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 33.2 | 26.9 | 40.3 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

**Manual Integrations**
**APPROVED**

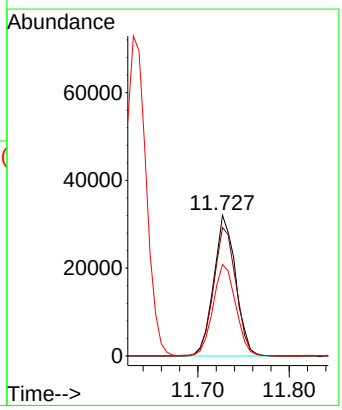
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

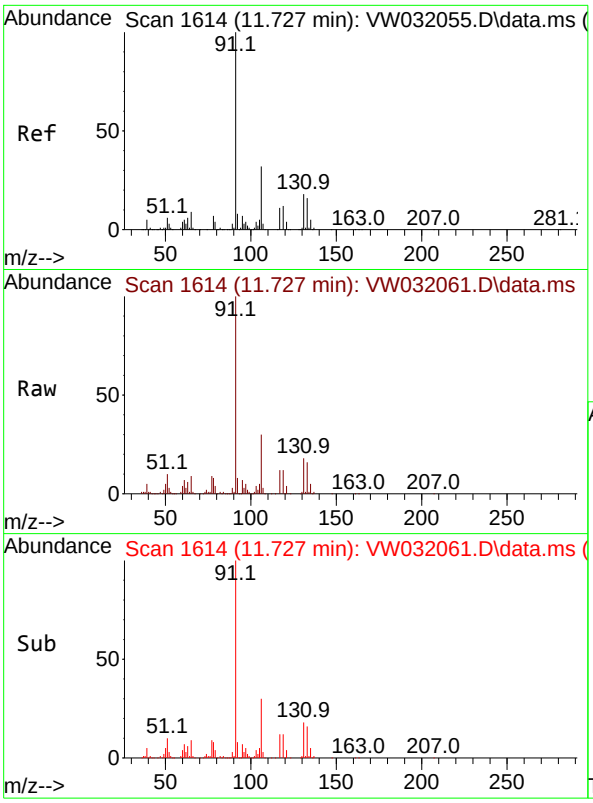



#66
1,1,1,2-Tetrachloroethane
Concen: 19.910 ug/l
RT: 11.727 min Scan# 1614
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:131 Resp: 53383

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 93.9 | 47.3 | 142.0 |
| 119 | 67.5 | 34.5 | 103.5 |

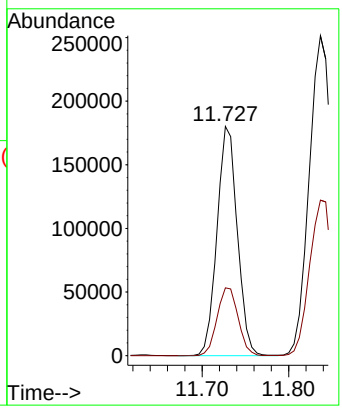





#67
Ethyl Benzene
Concen: 20.129 ug/l
RT: 11.727 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 91 Resp: 29301

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.6 | 25.4 | 38.0 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
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**Manual Integrations**
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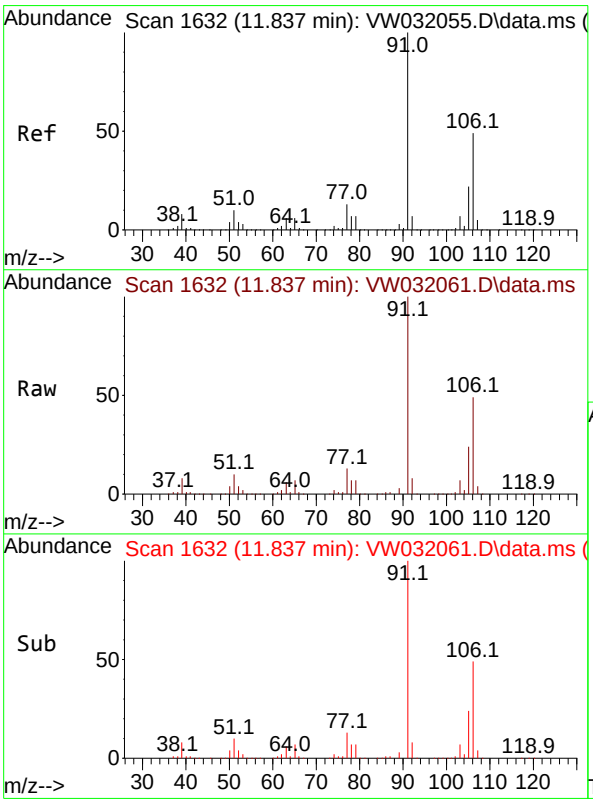
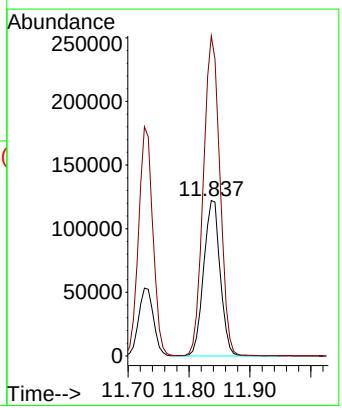
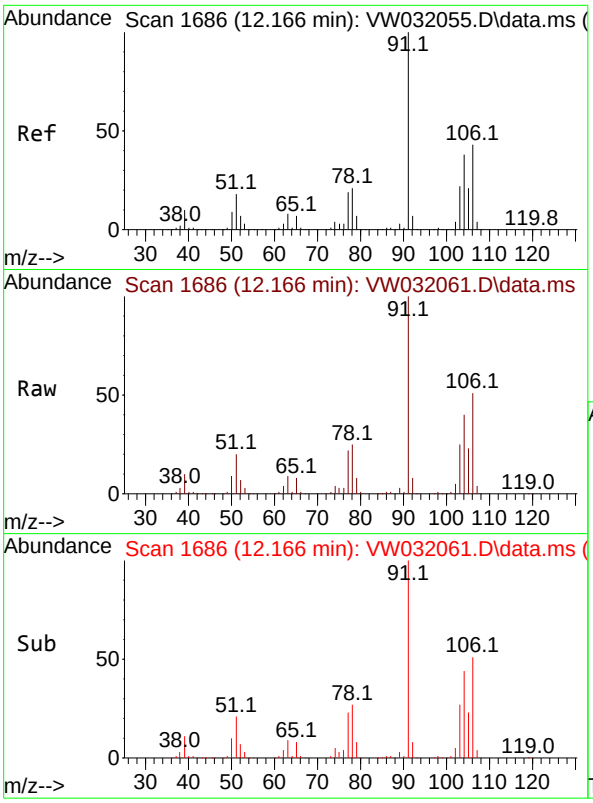



#68
m/p-Xylenes
Concen: 40.901 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:106 Resp: 229740

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 206.5 | 162.2 | 243.2 |






#69
o-Xylene
Concen: 21.194 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:106 Resp: 11003

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 214.2 | 110.8 | 332.3 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

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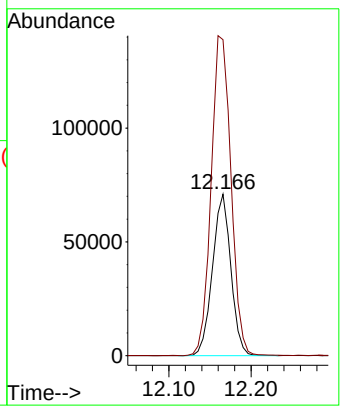
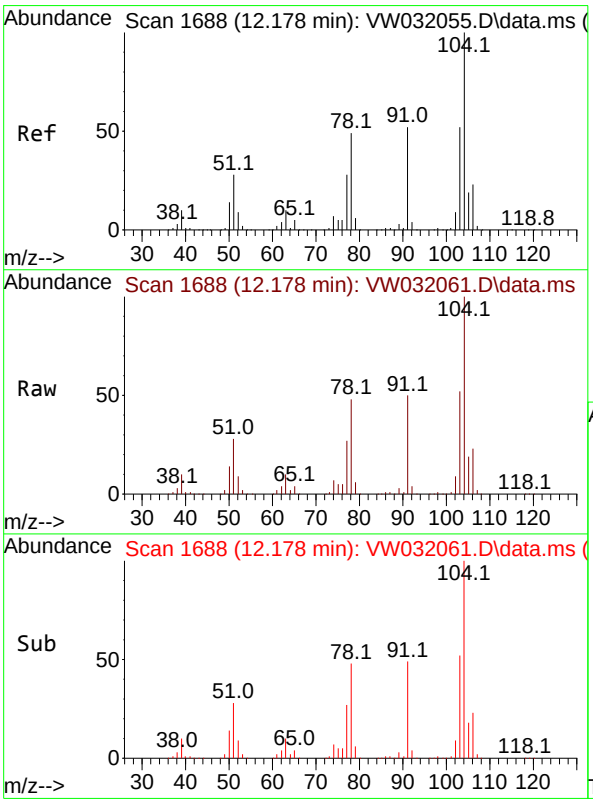
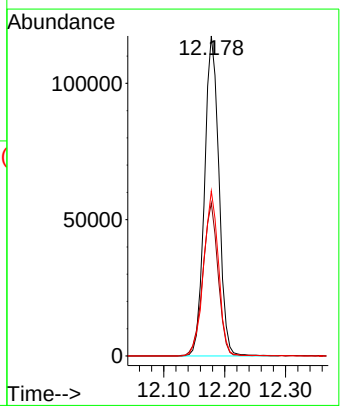


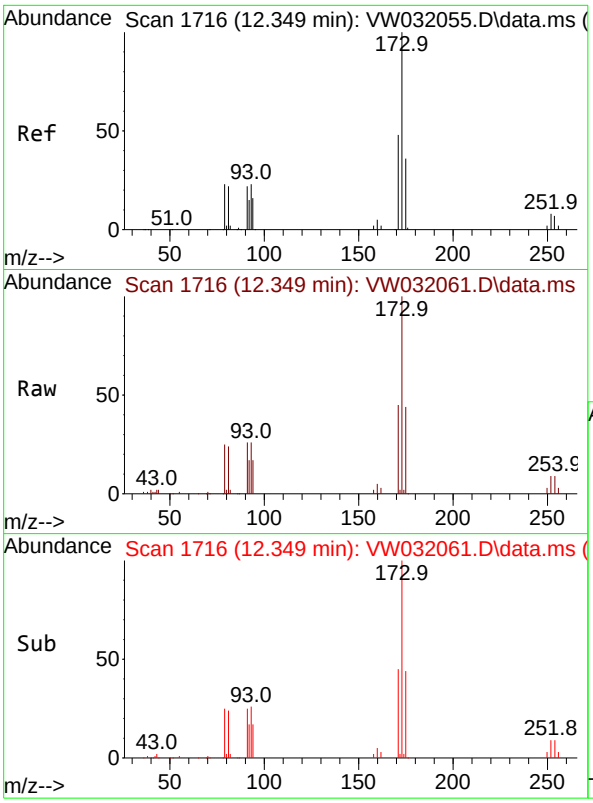




#70
Styrene
Concen: 20.893 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:104 Resp: 192666

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 50.5 | 41.2 | 61.8 |
| 103 | 53.3 | 43.8 | 65.8 |

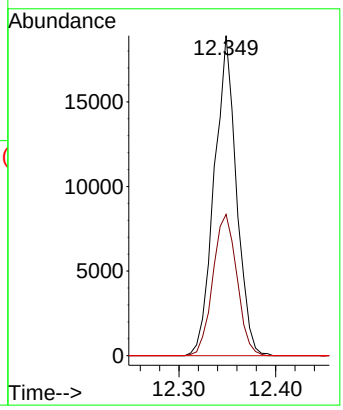





#71
Bromoform
Concen: 19.630 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:173 Resp: 3010

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.7 | 22.9 | 68.7 |
| 254 | 0.0 | 0.0 | 0.0 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

**Manual Integrations**
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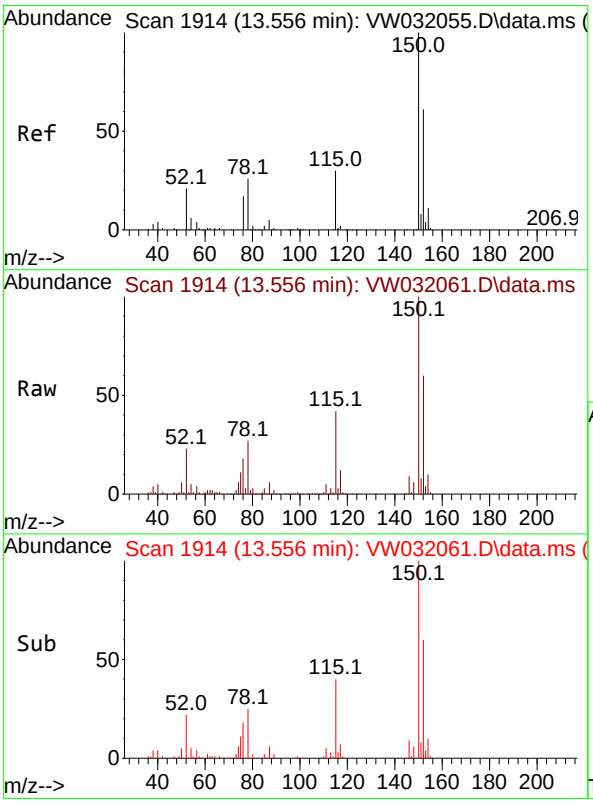
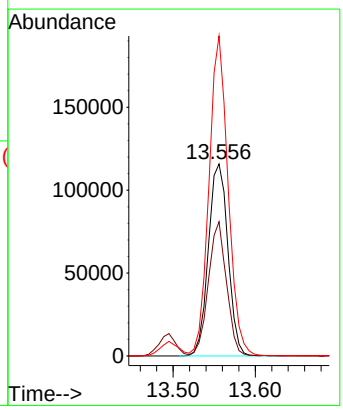
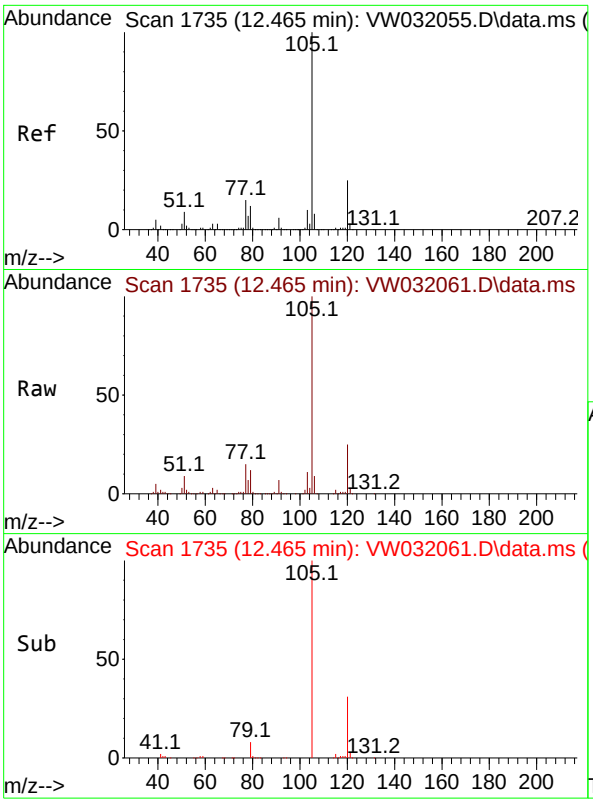



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:152 Resp: 191594

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 65.1 | 32.6 | 97.8 |
| 150 | 162.6 | 0.0 | 359.4 |

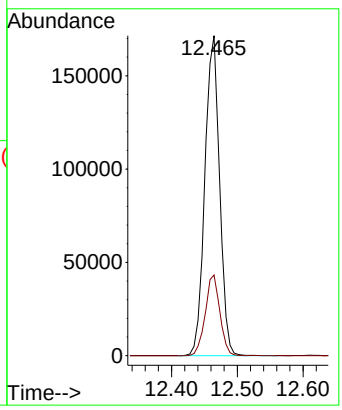





#73
Isopropylbenzene
Concen: 19.925 ug/l
RT: 12.465 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:105 Resp: 26679

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.0 | 12.8 | 38.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

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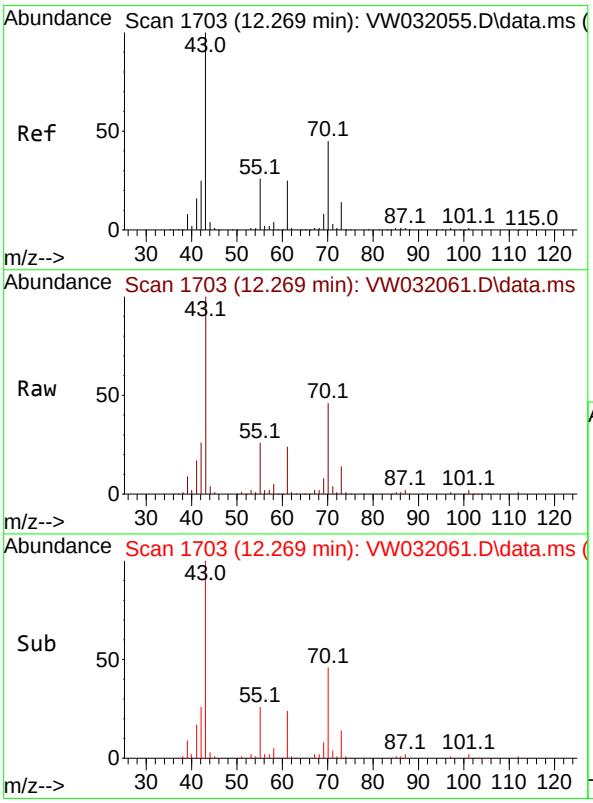
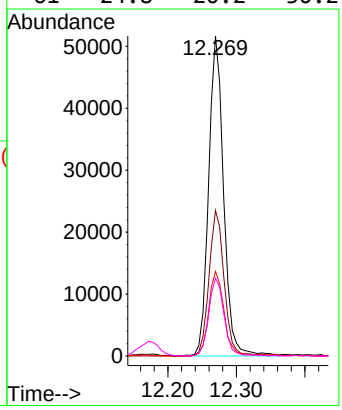
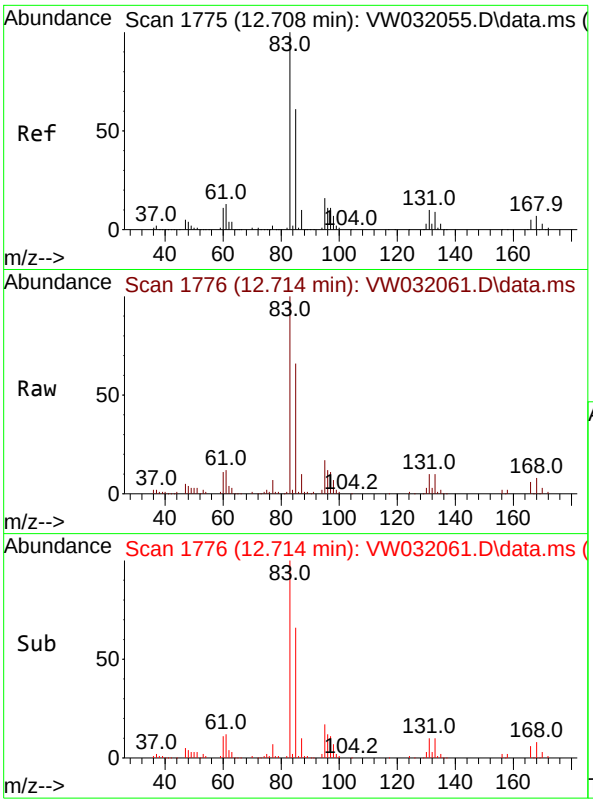



#74
N-amyl acetate
Concen: 20.526 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 43 Resp: 78852

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 45.7 | 37.0 | 55.4 |
| 55 | 27.3 | 21.1 | 31.7 |
| 61 | 24.8 | 20.2 | 30.2 |

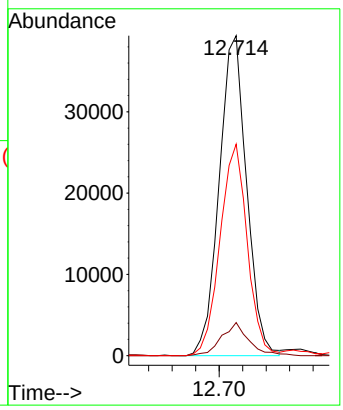





#75
1,1,2,2-Tetrachloroethane
Concen: 20.118 ug/l
RT: 12.714 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 83 Resp: 6395

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.3 | 5.1 | 15.4 |
| 85 | 65.4 | 32.2 | 96.6 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

**Manual Integrations**
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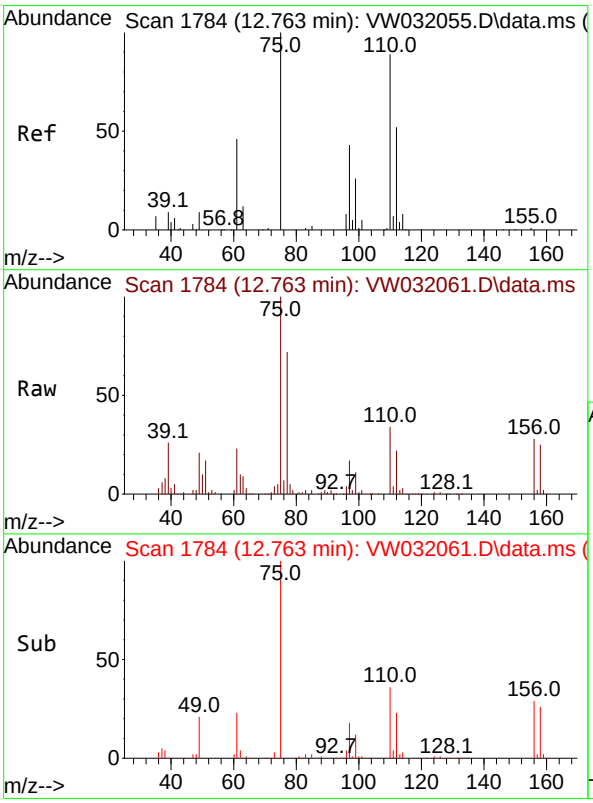
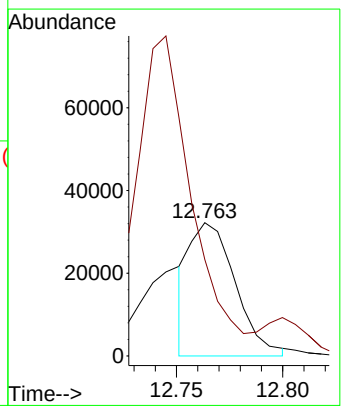
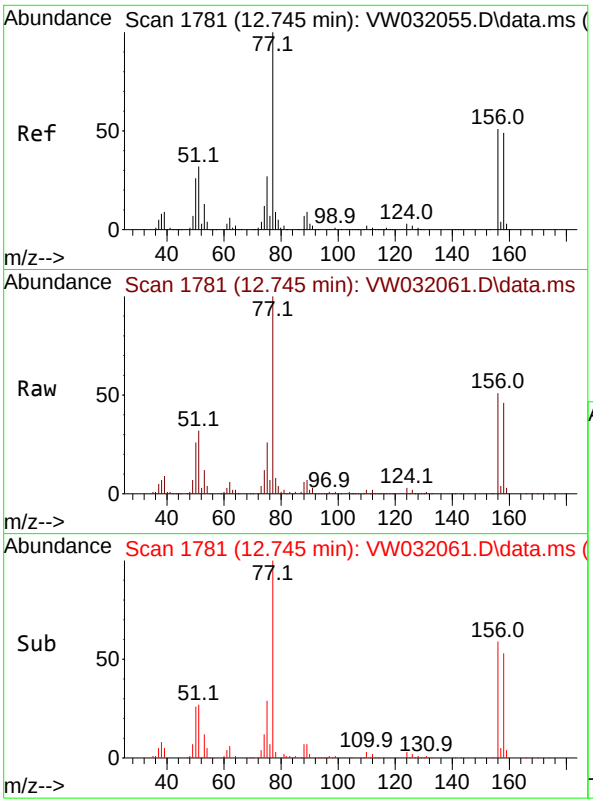



#76
1,2,3-Trichloropropane
Concen: 18.605 ug/l m
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 75 Resp: 48380

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 291.7 | 123.5 | 370.5 |

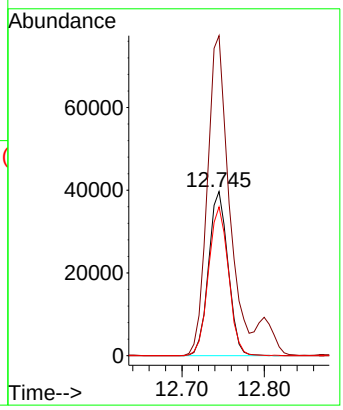





#77
Bromobenzene
Concen: 20.423 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:156 Resp: 6531

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 216.0 | 108.7 | 326.3 |
| 158 | 93.1 | 48.3 | 144.9 |




**Instrument :**
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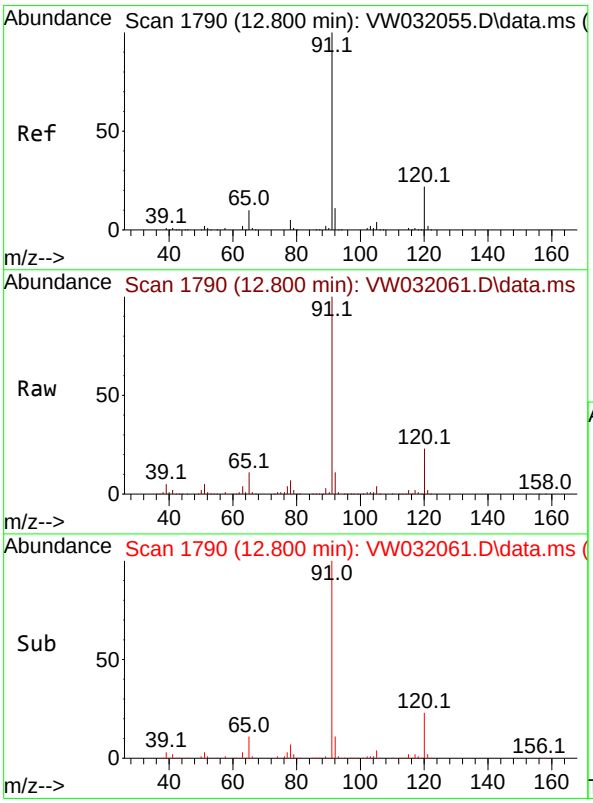
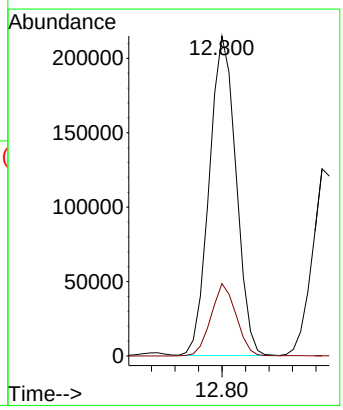
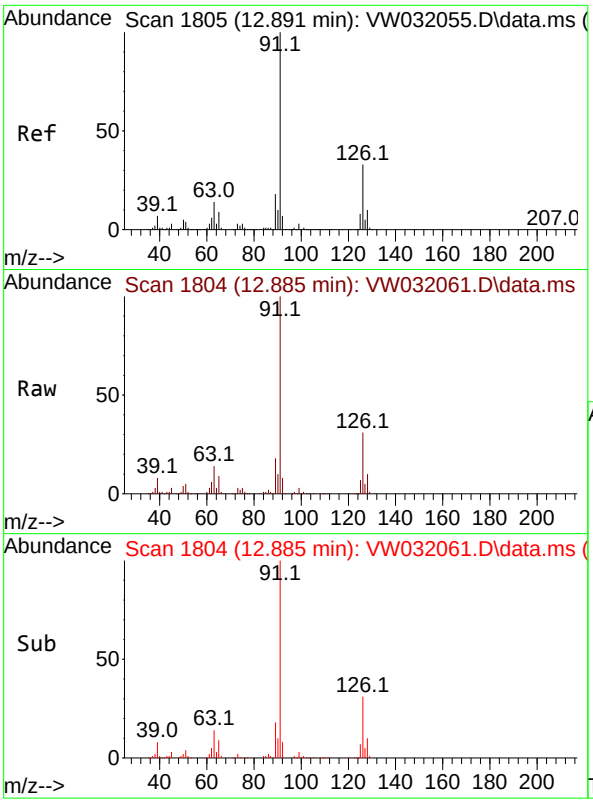



#78
n-propylbenzene
Concen: 20.616 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 91 Resp: 339857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 21.3 | 11.1 | 33.3 |

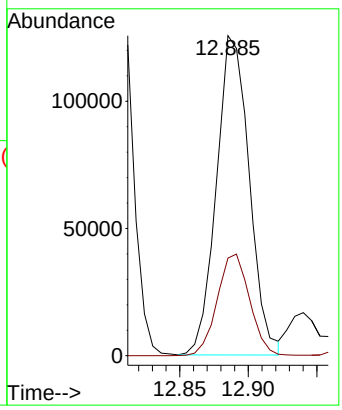





#79
2-Chlorotoluene
Concen: 20.570 ug/l
RT: 12.885 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 91 Resp: 20927

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.5 | 15.9 | 47.7 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

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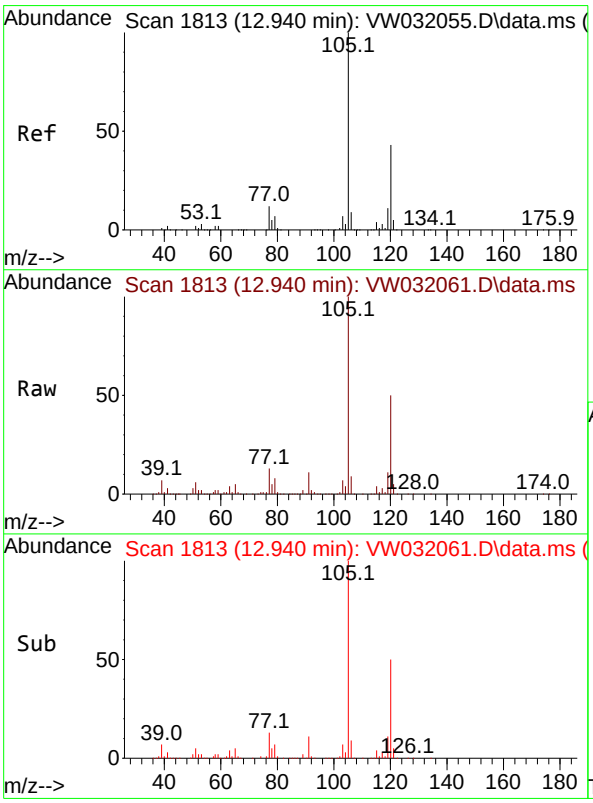
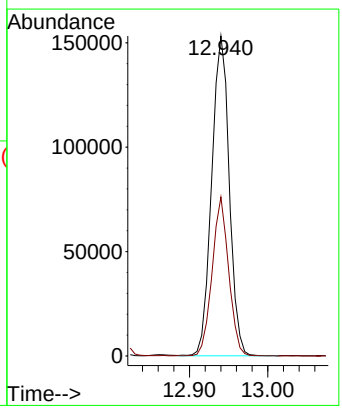
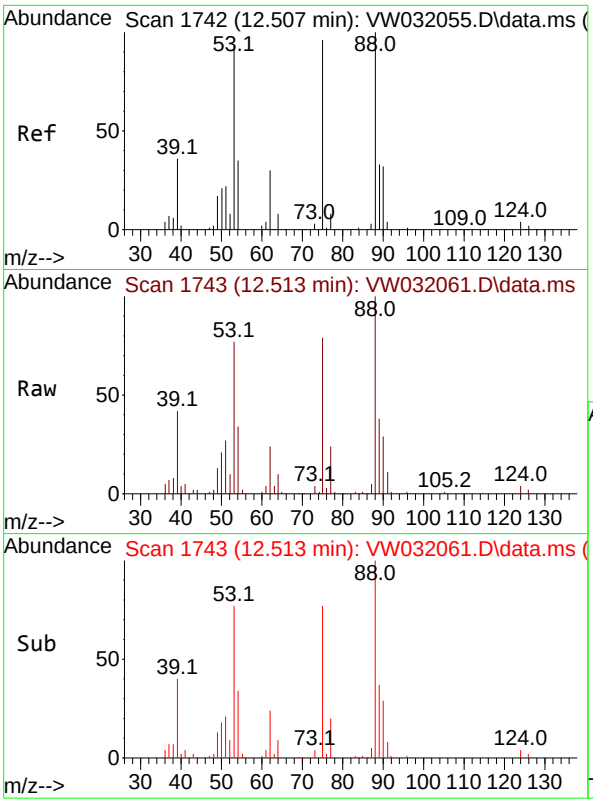



#80
1,3,5-Trimethylbenzene
Concen: 20.975 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:105 Resp: 238429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.0 | 23.4 | 70.0 |

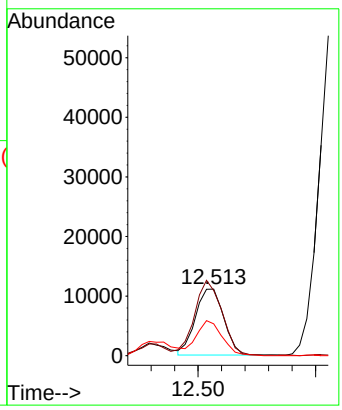





#81
trans-1,4-Dichloro-2-butene
Concen: 18.484 ug/l
RT: 12.513 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 75 Resp: 1856

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 113.2 | 81.0 | 121.6 |
| 89 | 47.5 | 37.3 | 55.9 |




**Instrument :**
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VW0811SBS01

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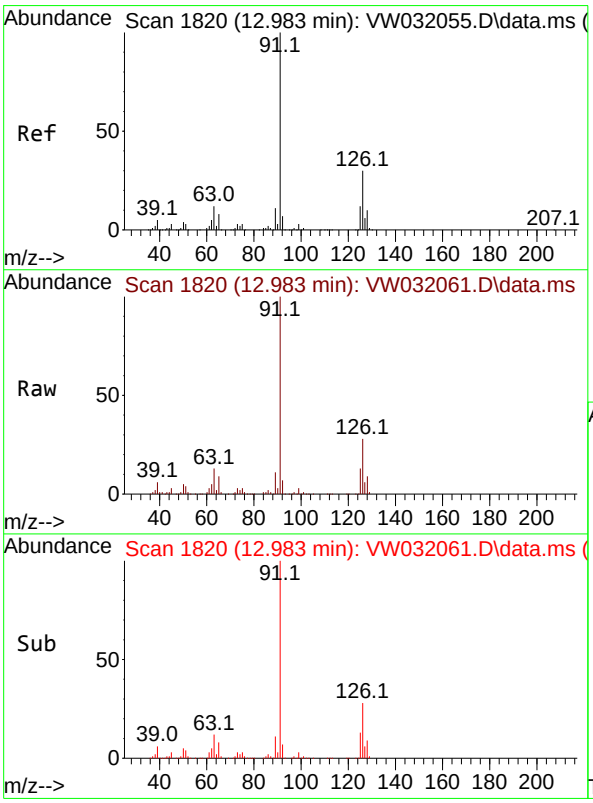
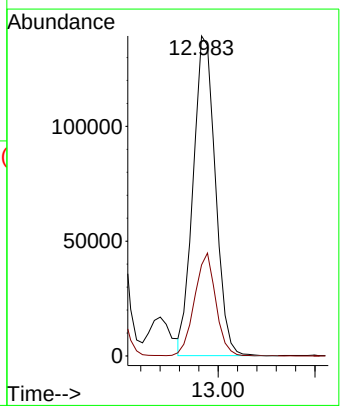
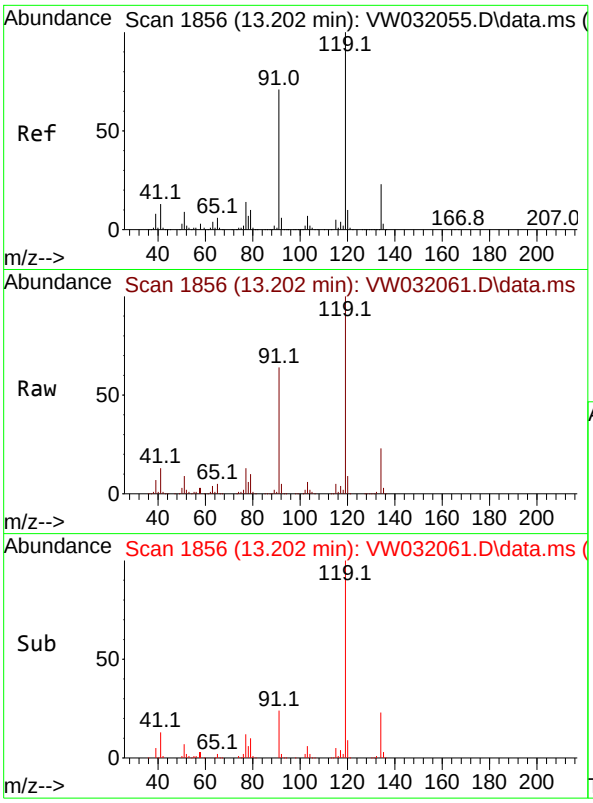



#82
4-Chlorotoluene
Concen: 20.547 ug/l
RT: 12.983 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 91 Resp: 222101

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 30.9 | 15.5 | 46.5 |

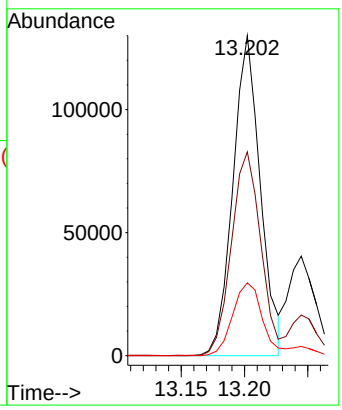





#83
tert-Butylbenzene
Concen: 20.817 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:119 Resp: 19639

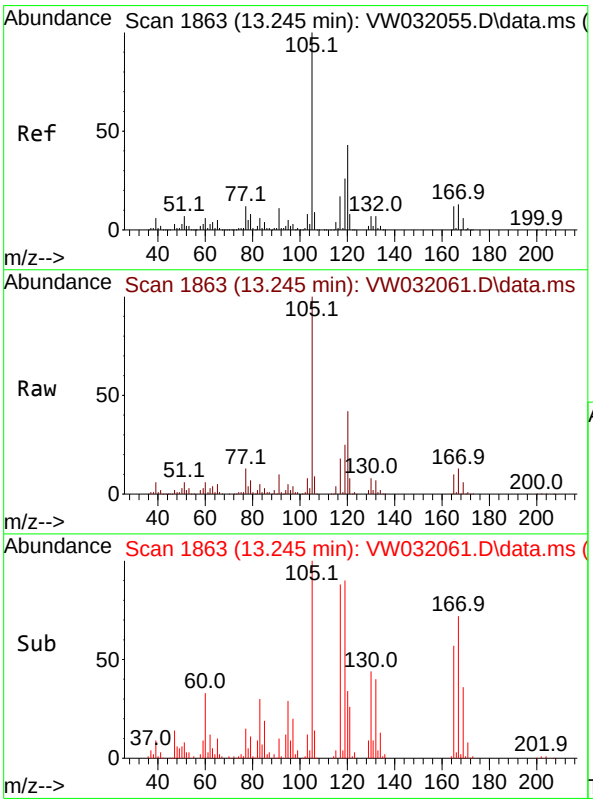
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 67.6 | 35.3 | 105.9 |
| 134 | 24.6 | 12.1 | 36.3 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

**Manual Integrations**
**APPROVED**

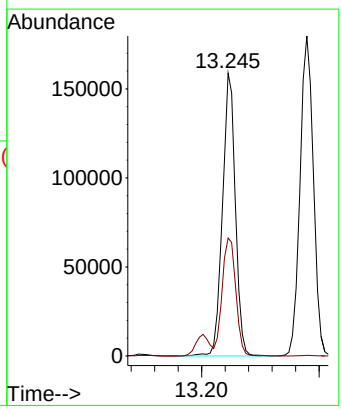
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

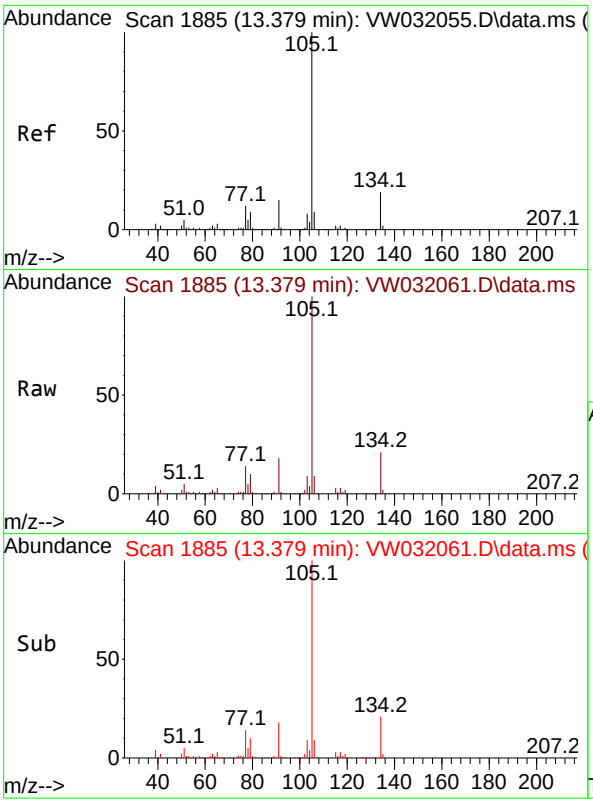



#84
1,2,4-Trimethylbenzene
Concen: 20.878 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:105 Resp: 241596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.0 | 21.6 | 64.8 |

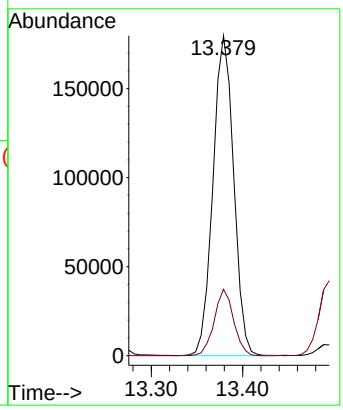





#85
sec-Butylbenzene
Concen: 19.818 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:105 Resp: 28266

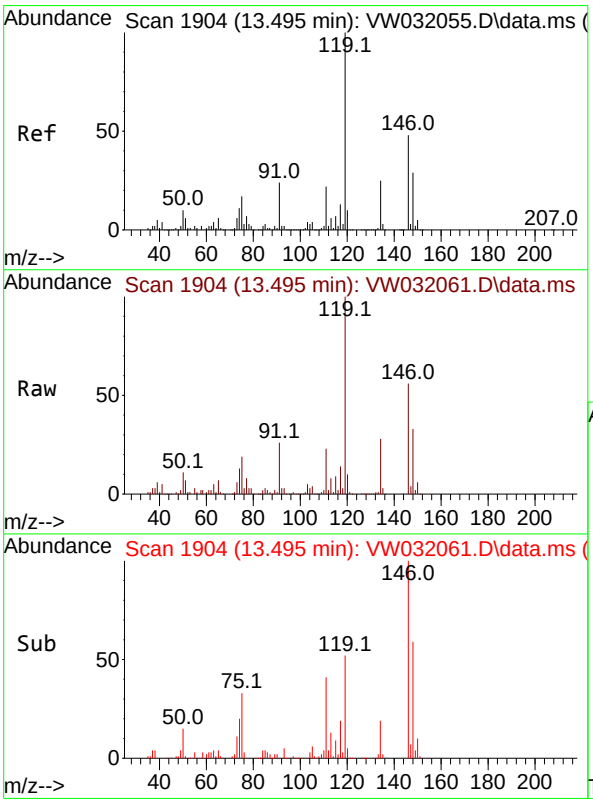
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.4 | 9.9 | 29.7 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

**Manual Integrations**
**APPROVED**

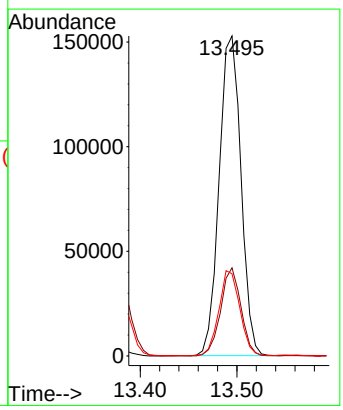
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

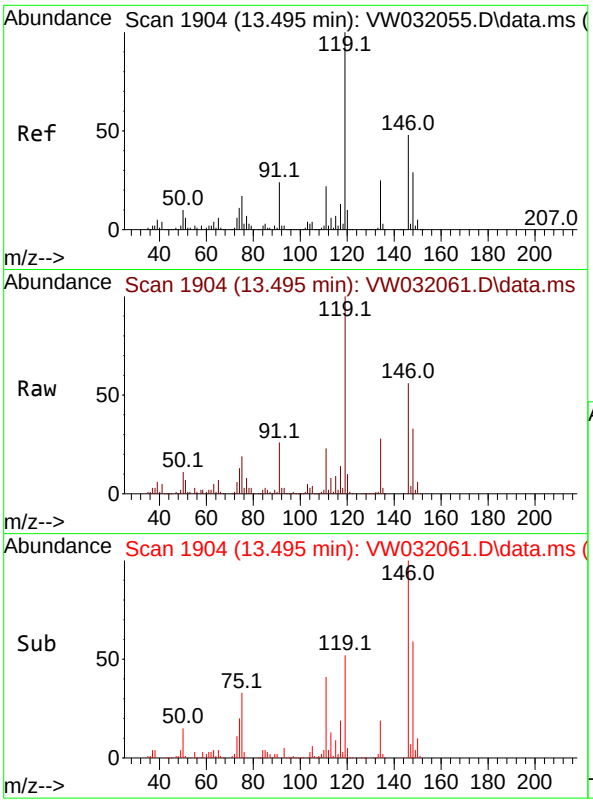



#86
p-Isopropyltoluene
Concen: 20.078 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:119 Resp: 238749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.7 | 12.4 | 37.0 |
| 91 | 25.5 | 12.1 | 36.3 |

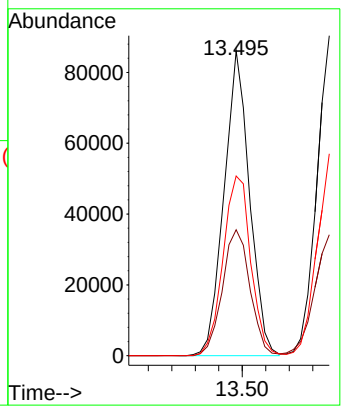





#87
1,3-Dichlorobenzene
Concen: 20.364 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:146 Resp: 12958

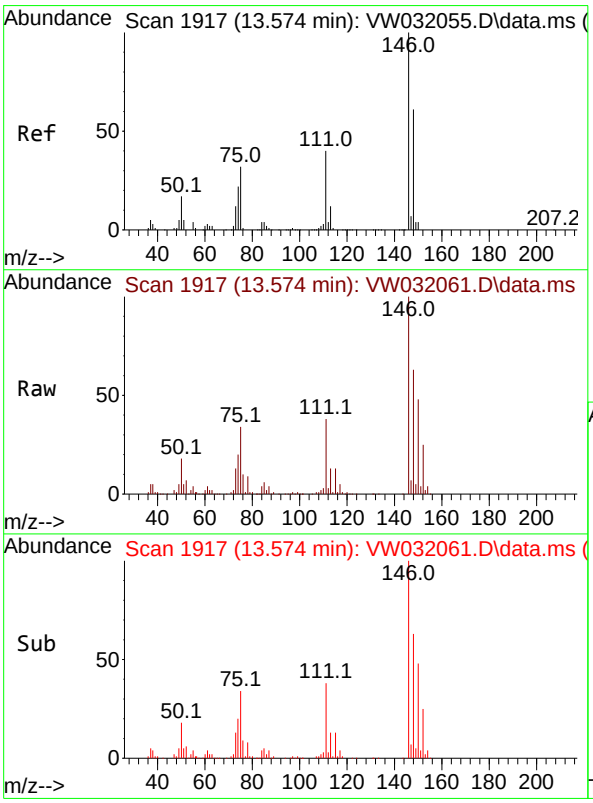
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.7 | 21.2 | 63.6 |
| 148 | 64.2 | 30.3 | 90.8 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

**Manual Integrations**
**APPROVED**

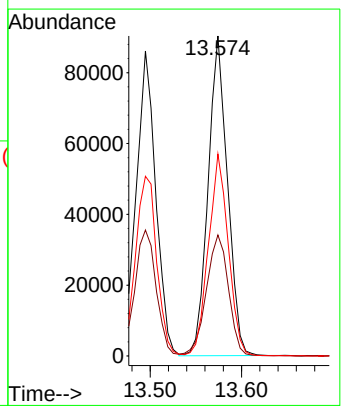
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

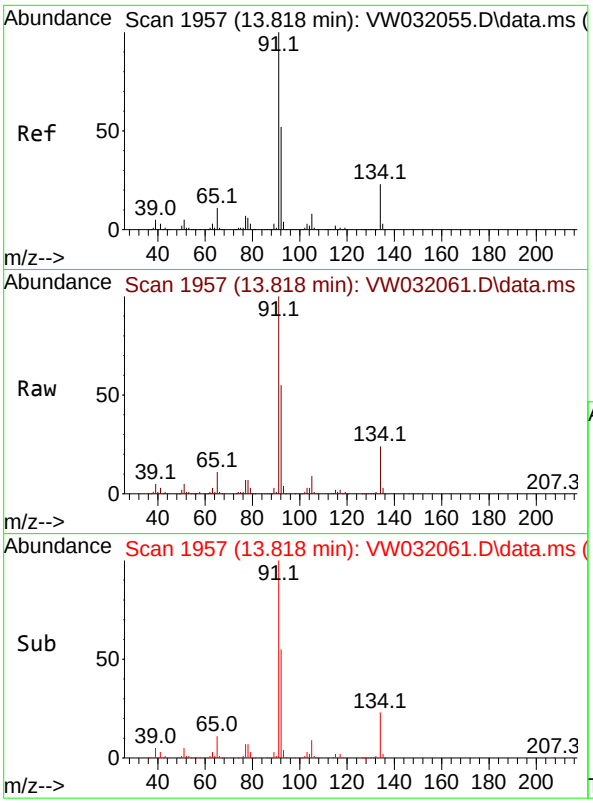



#88
1,4-Dichlorobenzene
Concen: 20.677 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:146 Resp: 132968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.3 | 21.6 | 64.6 |
| 148 | 64.6 | 32.0 | 96.2 |

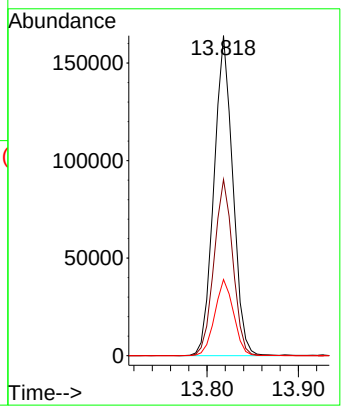





#89
n-Butylbenzene
Concen: 20.377 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 91 Resp: 23539

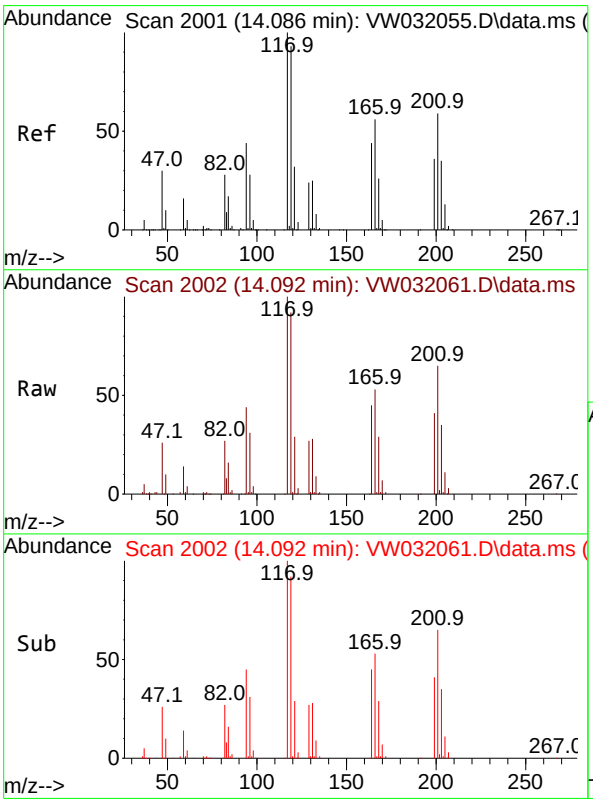
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.8 | 26.7 | 80.1 |
| 134 | 23.8 | 12.0 | 36.1 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

**Manual Integrations**
**APPROVED**

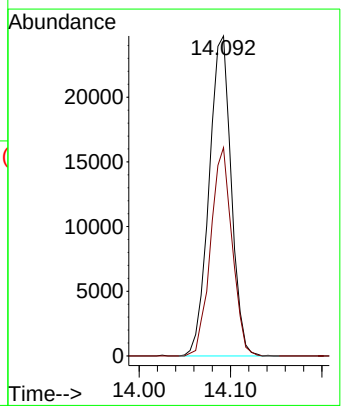
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

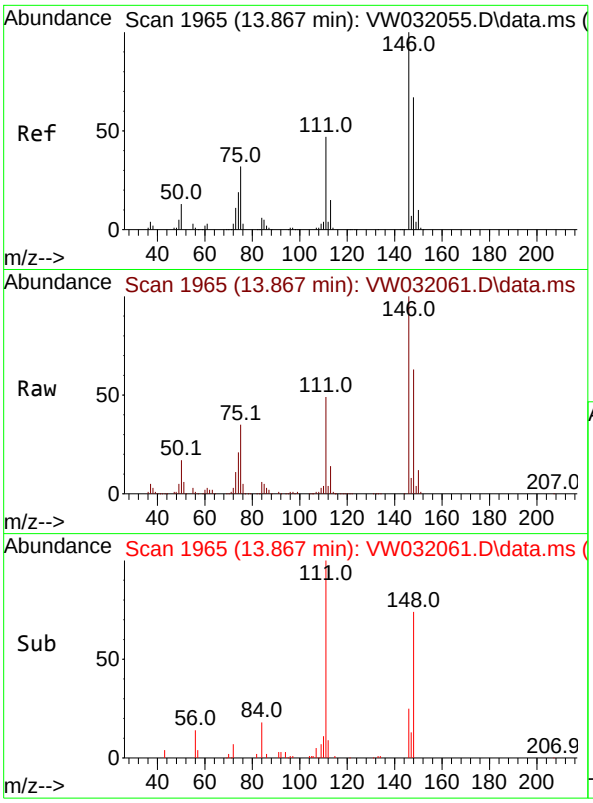



#90
Hexachloroethane
Concen: 19.094 ug/l
RT: 14.092 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:117 Resp: 41522

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 63.3 | 30.9 | 92.5 |

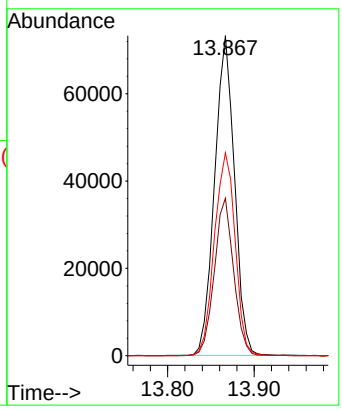





#91
1,2-Dichlorobenzene
Concen: 20.259 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:146 Resp: 11678

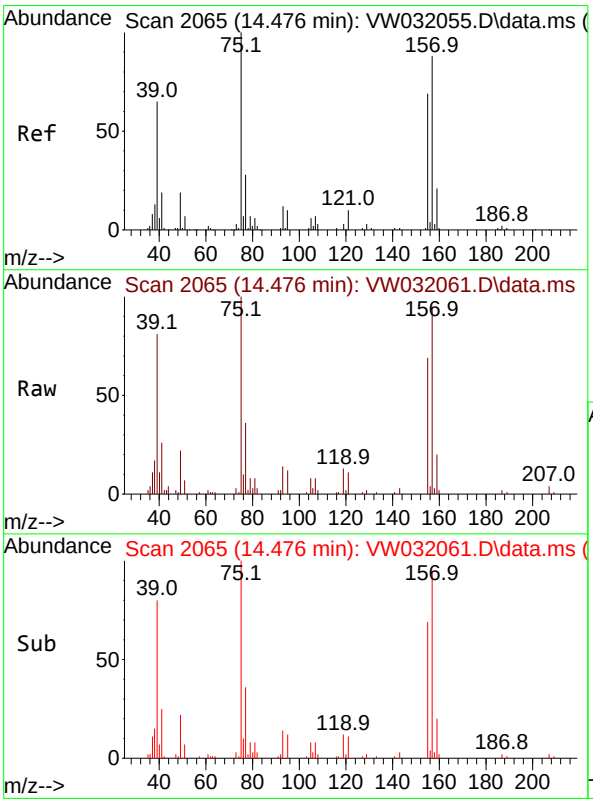
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 48.0 | 23.1 | 69.3 |
| 148 | 66.3 | 32.9 | 98.6 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

**Manual Integrations**
**APPROVED**

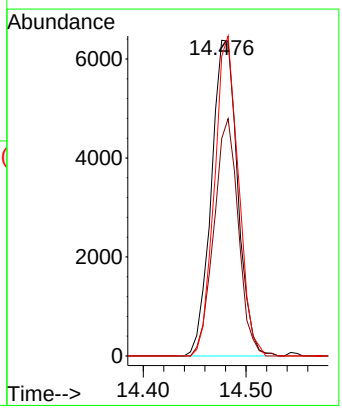
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

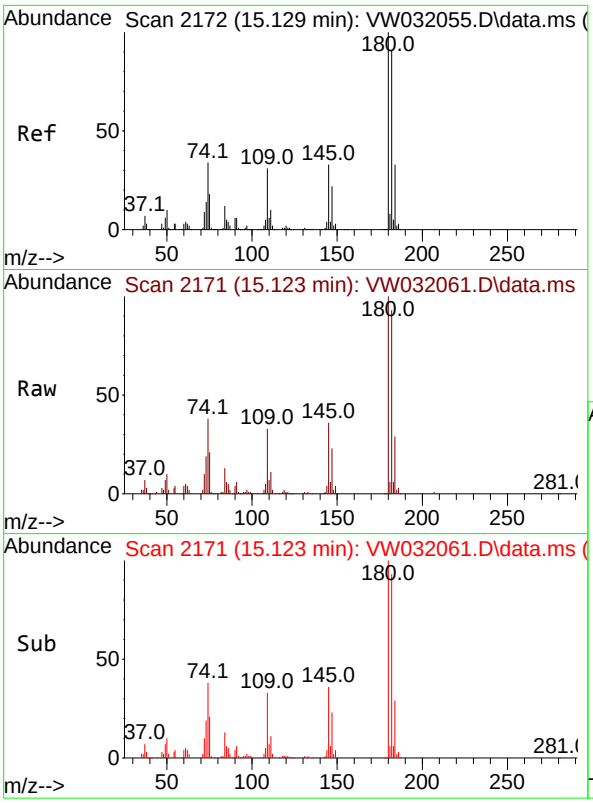



#92
1,2-Dibromo-3-Chloropropane
Concen: 20.070 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 75 Resp: 11343

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 69.8 | 35.2 | 105.6 |
| 157 | 92.0 | 47.5 | 142.6 |

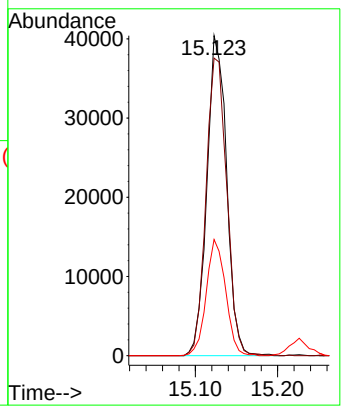





#93
1,2,4-Trichlorobenzene
Concen: 19.544 ug/l
RT: 15.123 min Scan# 2
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:180 Resp: 6739

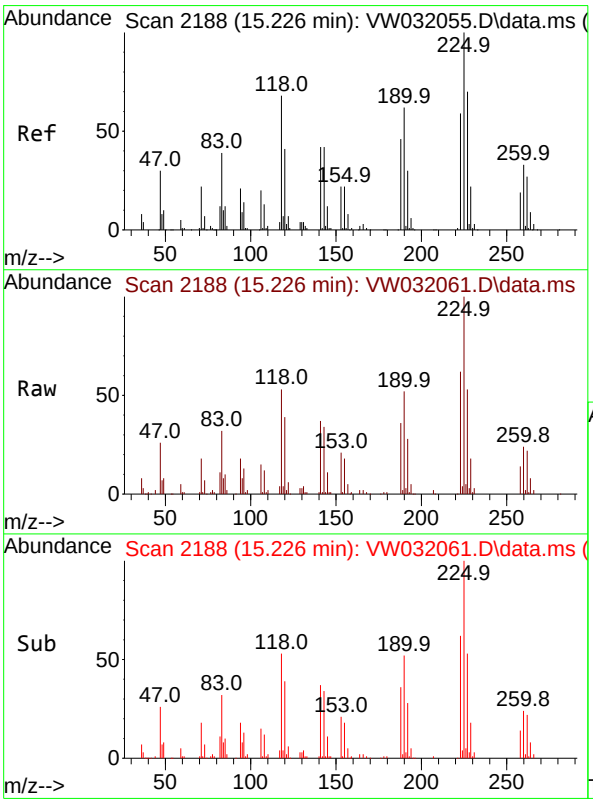
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 97.6 | 49.0 | 147.0 |
| 145 | 35.7 | 17.3 | 51.9 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

**Manual Integrations**
**APPROVED**

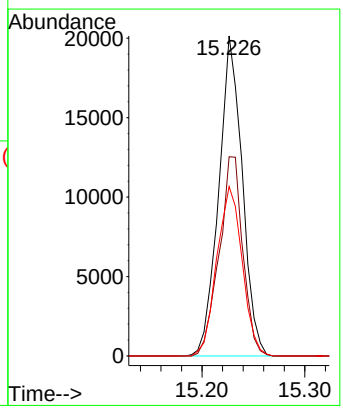
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

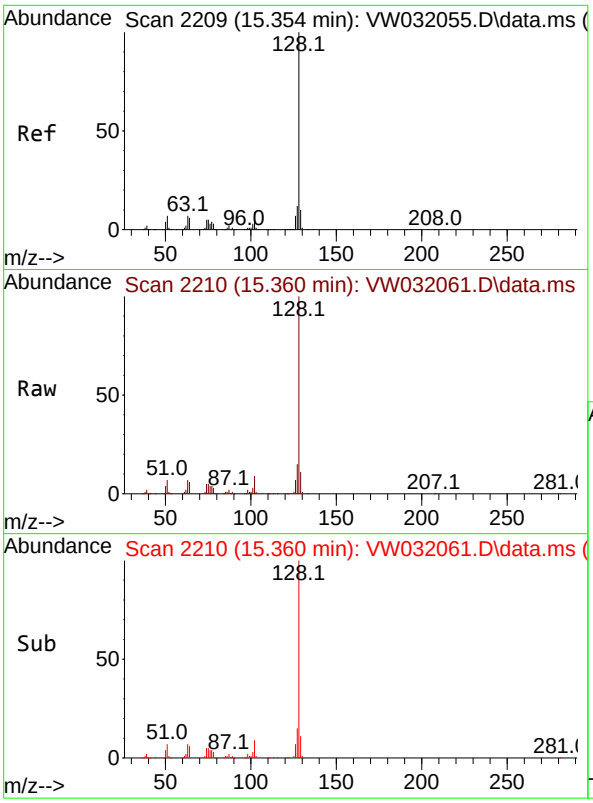



#94
Hexachlorobutadiene
Concen: 20.753 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:225 Resp: 31990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.7 | 31.8 | 95.3 |
| 227 | 57.0 | 33.5 | 100.5 |

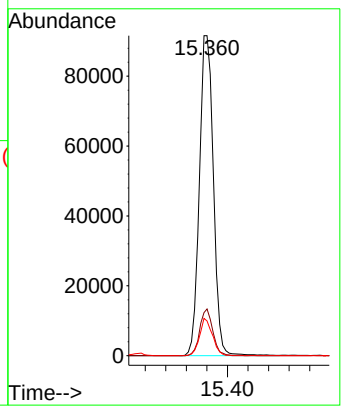





#95
Naphthalene
Concen: 20.498 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:128 Resp: 17319

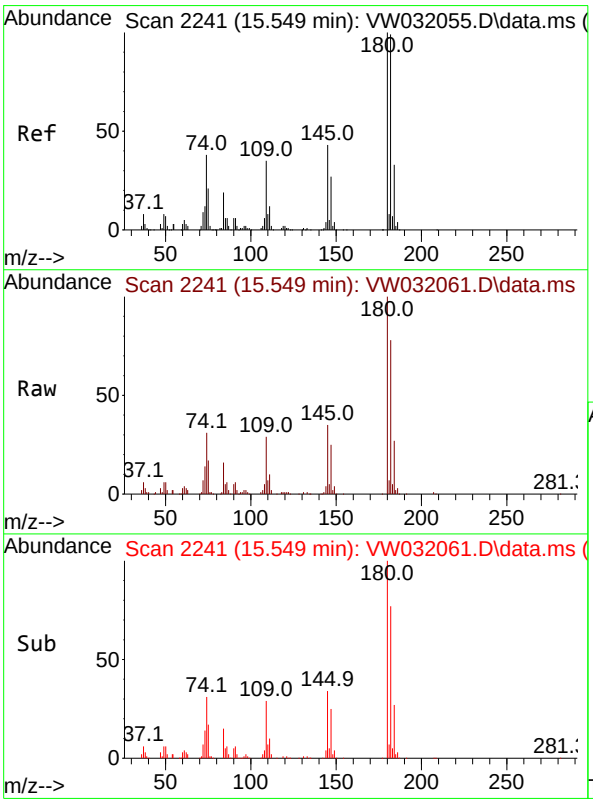
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.6 | 10.5 | 15.7 |
| 129 | 10.7 | 8.2 | 12.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

**Manual Integrations**
**APPROVED**

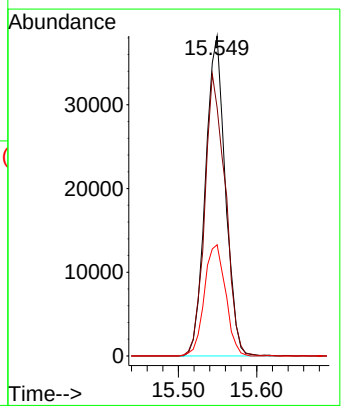
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025




#96
1,2,3-Trichlorobenzene
Concen: 21.446 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:180 Resp: 67287

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 91.4 | 46.0 | 138.0 |
| 145 | 37.2 | 19.2 | 57.6 |



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | |
| Project: | USACE018-44 DOD | Date Received: | |
| Client Sample ID: | VY0813SBS01 | SDG No.: | Q2819 |
| Lab Sample ID: | VY0813SBS01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023061.D | 1 | 08/13/25 11:09 | VY081325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 22.1 | | 1.10 | 4.00 | 5.00 | ug/Kg |
| 74-87-3 | Chloromethane | 23.7 | | 1.10 | 2.50 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 23.6 | | 0.79 | 2.50 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 23.9 | | 1.10 | 4.00 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 23.2 | | 1.30 | 2.50 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 22.5 | | 1.20 | 4.00 | 5.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 21.5 | | 1.10 | 2.50 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 21.5 | | 1.00 | 2.50 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 100 | | 4.70 | 20.0 | 25.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 21.7 | | 1.10 | 4.00 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 19.9 | | 0.73 | 2.50 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 19.0 | | 1.50 | 4.00 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 21.6 | | 3.50 | 8.00 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 21.2 | | 0.86 | 2.50 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 21.3 | | 0.80 | 2.50 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 20.5 | | 0.79 | 2.50 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 97.4 | | 6.50 | 20.0 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 20.7 | | 0.97 | 2.50 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 21.1 | | 0.75 | 2.50 | 5.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 20.8 | | 1.20 | 4.00 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 21.6 | | 0.84 | 4.00 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 21.4 | | 0.93 | 2.50 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 20.3 | | 0.91 | 2.50 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 21.0 | | 0.79 | 2.50 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 20.7 | | 0.79 | 2.50 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 20.7 | | 0.81 | 2.50 | 5.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 21.1 | | 0.91 | 2.50 | 5.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 20.9 | | 0.78 | 2.50 | 5.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 93.2 | | 3.60 | 12.5 | 25.0 | ug/Kg |
| 108-88-3 | Toluene | 20.8 | | 0.78 | 2.50 | 5.00 | ug/Kg |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | |
| Project: | USACE018-44 DOD | Date Received: | |
| Client Sample ID: | VY0813SBS01 | SDG No.: | Q2819 |
| Lab Sample ID: | VY0813SBS01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023061.D | 1 | 08/13/25 11:09 | VY081325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 19.6 | | 0.65 | 2.50 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 20.3 | | 0.62 | 2.50 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 19.6 | | 0.92 | 2.50 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 93.0 | | 3.70 | 12.5 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 19.8 | | 0.87 | 2.50 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 19.6 | | 0.88 | 2.50 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 22.2 | | 1.10 | 2.50 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 20.4 | | 0.91 | 2.50 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 20.4 | | 0.67 | 2.50 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 40.8 | | 1.20 | 5.00 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 20.1 | | 0.82 | 2.50 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 20.2 | | 0.71 | 2.50 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 19.0 | | 0.86 | 2.50 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 21.0 | | 0.78 | 2.50 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 18.3 | | 1.20 | 2.50 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 20.4 | | 1.70 | 2.50 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 20.5 | | 1.60 | 2.50 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 20.3 | | 1.50 | 2.50 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 19.5 | | 1.80 | 4.00 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 18.9 | | 3.00 | 4.00 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 18.5 | | 3.20 | 4.00 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50.3 | | 71 - 136 | | 101% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 49.4 | | 78 - 119 | | 99% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.0 | | 85 - 116 | | 100% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 47.9 | | 79 - 119 | | 96% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 478000 | 7.707 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 776000 | 8.609 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 676000 | 11.414 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 325000 | 13.34 | | | | |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | |
| Project: | USACE018-44 DOD | Date Received: | |
| Client Sample ID: | VY0813SBS01 | SDG No.: | Q2819 |
| Lab Sample ID: | VY0813SBS01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023061.D | 1 | 08/13/25 11:09 | VY081325 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023061.D
Acq On : 13 Aug 2025 11:09
Operator : SY/MD
Sample : VY0813SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 14 01:20:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 478194 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.609 | 114 | 775826 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 675926 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 325106 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.055 | 65 | 229361 | 50.326 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 100.660% | | | |
| 35) Dibromofluoromethane | 7.628 | 113 | 229320 | 49.398 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 98.800% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 906626 | 49.992 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 99.980% | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 279619 | 47.943 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 95.880% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.861 | 85 | 86360 | 22.125 | ug/l | 98 |
| 3) Chloromethane | 2.068 | 50 | 149822 | 23.698 | ug/l | 99 |
| 4) Vinyl Chloride | 2.202 | 62 | 184278 | 23.580 | ug/l | 99 |
| 5) Bromomethane | 2.586 | 94 | 139698 | 23.936 | ug/l | 95 |
| 6) Chloroethane | 2.726 | 64 | 120677 | 23.227 | ug/l | 100 |
| 7) Trichlorofluoromethane | 3.049 | 101 | 213662 | 22.485 | ug/l | 98 |
| 8) Diethyl Ether | 3.452 | 74 | 51671 | 20.553 | ug/l | 98 |
| 9) 1,1,2-Trichlorotrifluo... | 3.812 | 101 | 101004 | 21.545 | ug/l | 100 |
| 10) Methyl Iodide | 4.001 | 142 | 97379 | 19.249 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.854 | 59 | 27933 | 89.450 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 3.781 | 96 | 98921 | 21.467 | ug/l | 97 |
| 13) Acrolein | 3.647 | 56 | 42693 | 93.352 | ug/l | 95 |
| 14) Allyl chloride | 4.372 | 41 | 143464 | 21.158 | ug/l | 99 |
| 15) Acrylonitrile | 5.049 | 53 | 100833 | 98.653 | ug/l | 98 |
| 16) Acetone | 3.866 | 43 | 99920 | 101.199 | ug/l | 96 |
| 17) Carbon Disulfide | 4.098 | 76 | 326606 | 21.737 | ug/l | 98 |
| 18) Methyl Acetate | 4.379 | 43 | 55687 | 18.953 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.110 | 73 | 237530 | 19.892 | ug/l | 100 |
| 20) Methylene Chloride | 4.610 | 84 | 118853 | 21.623 | ug/l | 99 |
| 21) trans-1,2-Dichloroethene | 5.110 | 96 | 109941 | 21.230 | ug/l | 95 |
| 22) Diisopropyl ether | 6.012 | 45 | 313978 | 21.310 | ug/l | 96 |
| 23) Vinyl Acetate | 5.951 | 43 | 814993 | 100.034 | ug/l | 98 |
| 24) 1,1-Dichloroethane | 5.909 | 63 | 192114 | 21.326 | ug/l | 99 |
| 25) 2-Butanone | 6.890 | 43 | 130779 | 97.389 | ug/l | 96 |
| 26) 2,2-Dichloropropane | 6.878 | 77 | 169264 | 21.776 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 6.884 | 96 | 126291 | 21.095 | ug/l | 99 |
| 28) Bromochloromethane | 7.238 | 49 | 74346 | 20.802 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.262 | 42 | 79003 | 94.913 | ug/l | 97 |
| 30) Chloroform | 7.415 | 83 | 200297 | 21.559 | ug/l | 95 |
| 31) Cyclohexane | 7.695 | 56 | 173959 | 20.493 | ug/l | 100 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 176542 | 21.416 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 7.829 | 75 | 142922 | 20.716 | ug/l | 98 |
| 37) Ethyl Acetate | 6.982 | 43 | 55643 | 19.200 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.811 | 117 | 154916 | 20.674 | ug/l | 100 |
| 39) Methylcyclohexane | 9.103 | 83 | 184052 | 20.258 | ug/l | 99 |
| 40) Benzene | 8.073 | 78 | 446973 | 21.020 | ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023061.D
Acq On : 13 Aug 2025 11:09
Operator : SY/MD
Sample : VY0813SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 14 01:20:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.213 | 41 | 27819m | 16.633 | ug/l | | |
| 42) 1,2-Dichloroethane | 8.152 | 62 | 114299 | 20.668 | ug/l | | 98 |
| 43) Isopropyl Acetate | 8.195 | 43 | 108405 | 18.507 | ug/l | | 98 |
| 44) Trichloroethene | 8.859 | 130 | 113487 | 20.652 | ug/l | | 94 |
| 45) 1,2-Dichloropropane | 9.134 | 63 | 103105 | 21.073 | ug/l | | 97 |
| 46) Dibromomethane | 9.225 | 93 | 57310 | 20.408 | ug/l | | 98 |
| 47) Bromodichloromethane | 9.420 | 83 | 151024 | 20.900 | ug/l | | 100 |
| 48) Methyl methacrylate | 9.219 | 41 | 51033 | 18.207 | ug/l | | 95 |
| 49) 1,4-Dioxane | 9.225 | 88 | 13354 | 405.561 | ug/l | | 99 |
| 51) 4-Methyl-2-Pentanone | 9.993 | 43 | 281551 | 93.183 | ug/l | | 99 |
| 52) Toluene | 10.164 | 92 | 280495 | 20.769 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 128144 | 19.584 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 157108 | 20.305 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 10.566 | 97 | 73477 | 19.554 | ug/l | | 97 |
| 56) Ethyl methacrylate | 10.438 | 69 | 88174 | 18.338 | ug/l | | 97 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 129029 | 20.247 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 214069 | 94.383 | ug/l | | 100 |
| 59) 2-Hexanone | 10.755 | 43 | 191315 | 92.987 | ug/l | | 97 |
| 60) Dibromochloromethane | 10.908 | 129 | 97950 | 19.755 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.011 | 107 | 69337 | 19.632 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.640 | 164 | 134131 | 22.223 | ug/l | | 98 |
| 65) Chlorobenzene | 11.438 | 112 | 297874 | 20.431 | ug/l | | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 11.511 | 131 | 101895 | 20.592 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.511 | 91 | 512586 | 20.430 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 399348 | 40.752 | ug/l | | 98 |
| 69) o-Xylene | 11.950 | 106 | 184155 | 20.065 | ug/l | | 98 |
| 70) Styrene | 11.963 | 104 | 302870 | 20.179 | ug/l | | 99 |
| 71) Bromoform | 12.127 | 173 | 55061 | 19.039 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.249 | 105 | 481276 | 20.975 | ug/l | | 100 |
| 74) N-amyl acetate | 12.066 | 43 | 94137 | 19.346 | ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.499 | 83 | 71870 | 18.344 | ug/l | | 98 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 59594m | 18.993 | ug/l | | |
| 77) Bromobenzene | 12.529 | 156 | 111502 | 20.369 | ug/l | | 98 |
| 78) n-propylbenzene | 12.590 | 91 | 581635 | 21.291 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 332511 | 21.244 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.731 | 105 | 390462 | 21.055 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.298 | 75 | 25293 | 19.514 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 343845 | 21.176 | ug/l | | 100 |
| 83) tert-Butylbenzene | 12.993 | 119 | 344106 | 20.545 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.036 | 105 | 390034 | 21.128 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.170 | 105 | 515732 | 20.962 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.285 | 119 | 426905 | 20.904 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 220435 | 20.420 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.359 | 146 | 219736 | 20.520 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.615 | 91 | 390572 | 20.823 | ug/l | | 98 |
| 90) Hexachloroethane | 13.877 | 117 | 89456 | 21.398 | ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 13.651 | 146 | 191827 | 20.262 | ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.267 | 75 | 11881 | 19.477 | ug/l | | 93 |
| 93) 1,2,4-Trichlorobenzene | 14.913 | 180 | 105900 | 18.915 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 15.017 | 225 | 66091 | 20.089 | ug/l | | 98 |
| 95) Naphthalene | 15.139 | 128 | 162104 | 16.980 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.322 | 180 | 89070 | 18.463 | ug/l | | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023061.D
Acq On : 13 Aug 2025 11:09
Operator : SY/MD
Sample : VY0813SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 14 01:20:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

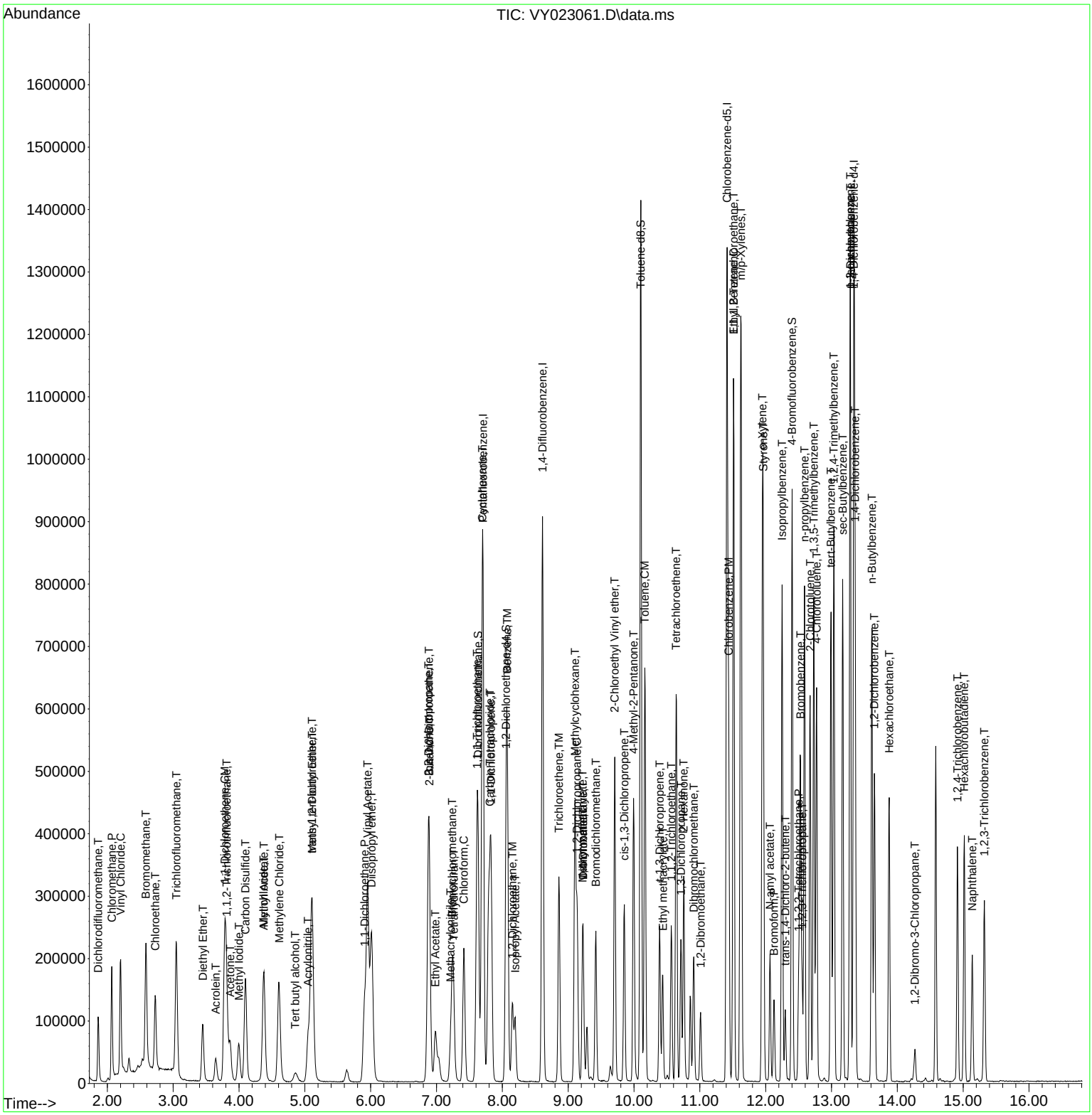
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023061.D
Acq On : 13 Aug 2025 11:09
Operator : SY/MD
Sample : VY0813SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

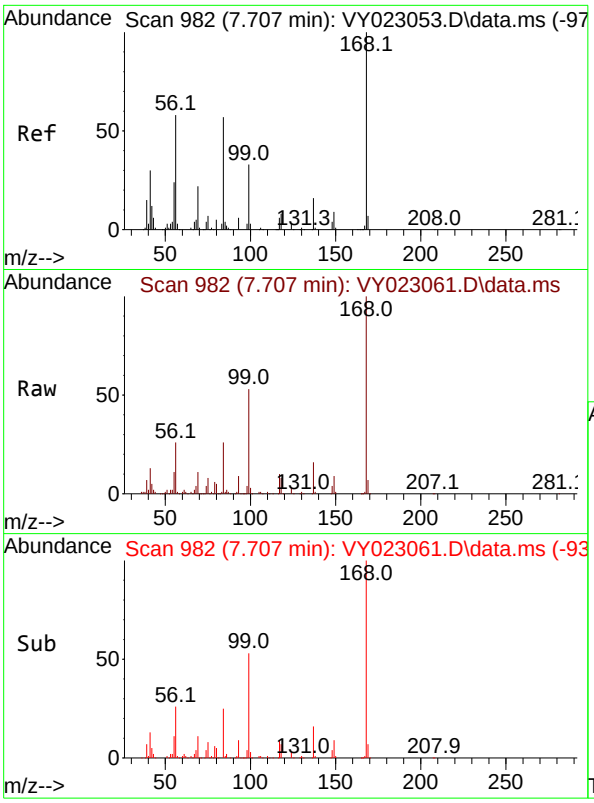
Quant Time: Aug 14 01:20:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

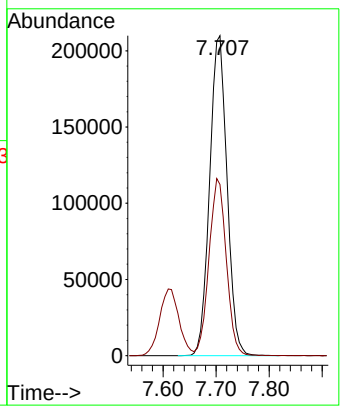





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:168 Resp: 47819

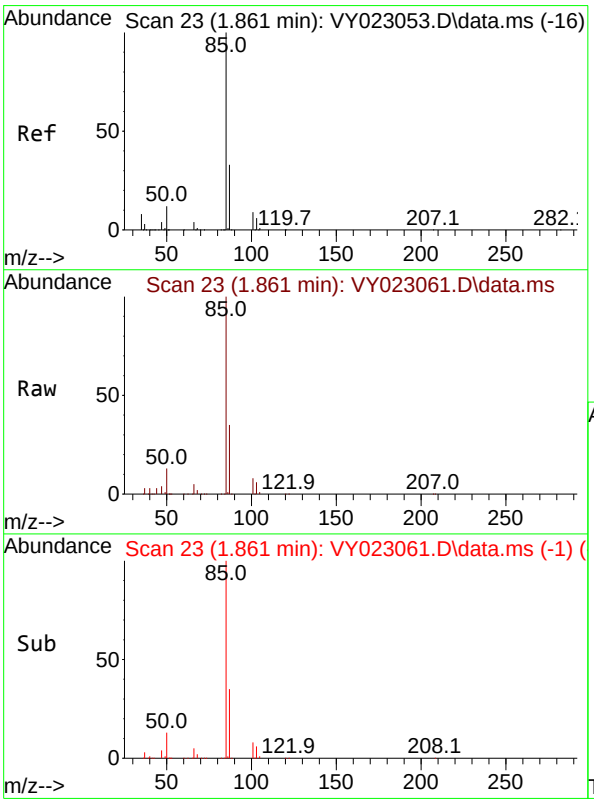
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 53.4 | 42.8 | 64.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations**
**APPROVED**

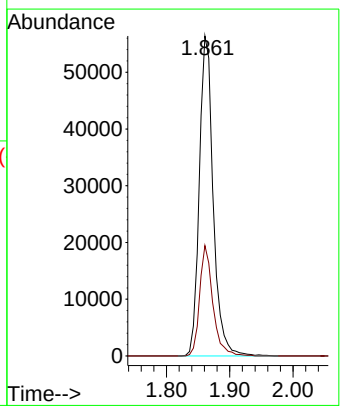
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

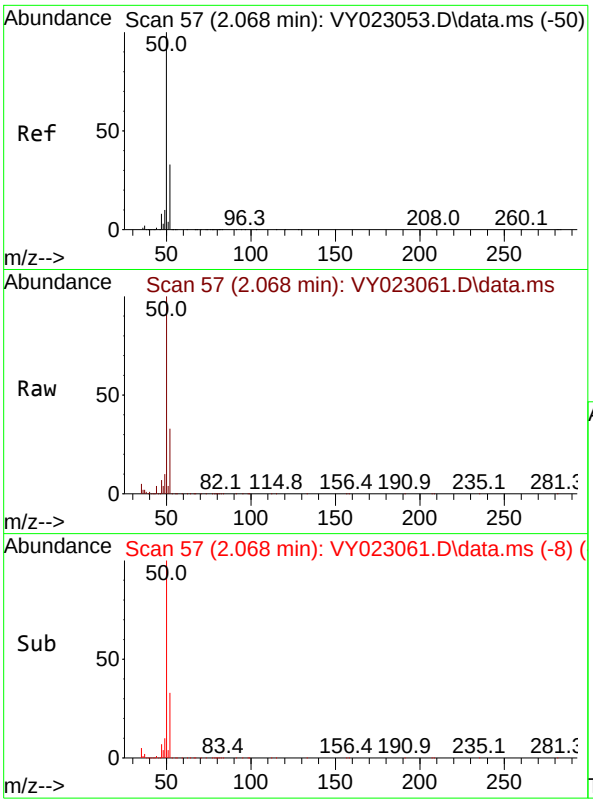



#2
Dichlorodifluoromethane
Concen: 22.125 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 85 Resp: 86360

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 34.5 | 16.6 | 49.8 |

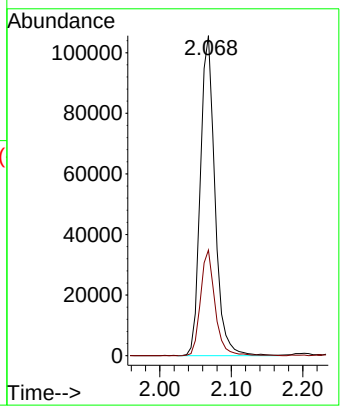





#3
Chloromethane
Concen: 23.698 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 50 Resp: 14982

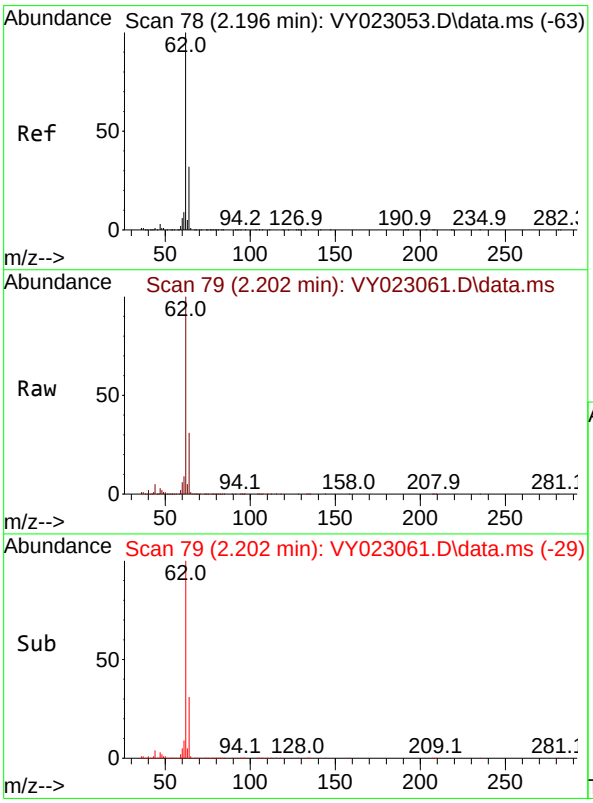
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.0 | 26.7 | 40.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations**
**APPROVED**

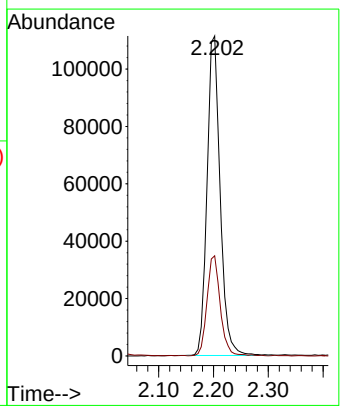
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

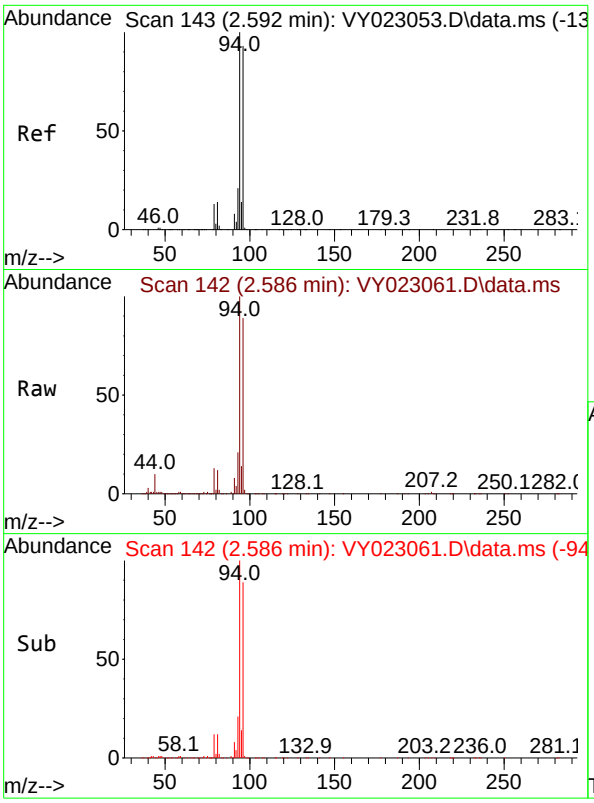



#4
Vinyl Chloride
Concen: 23.580 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 62 Resp: 184278

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.2 | 25.4 | 38.0 |

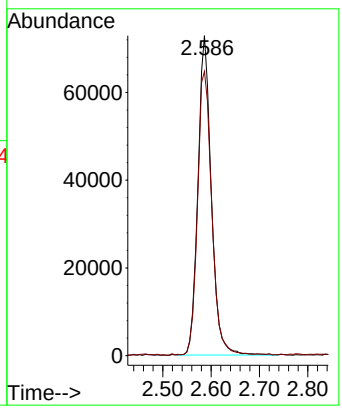





#5
Bromomethane
Concen: 23.936 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 94 Resp: 13969

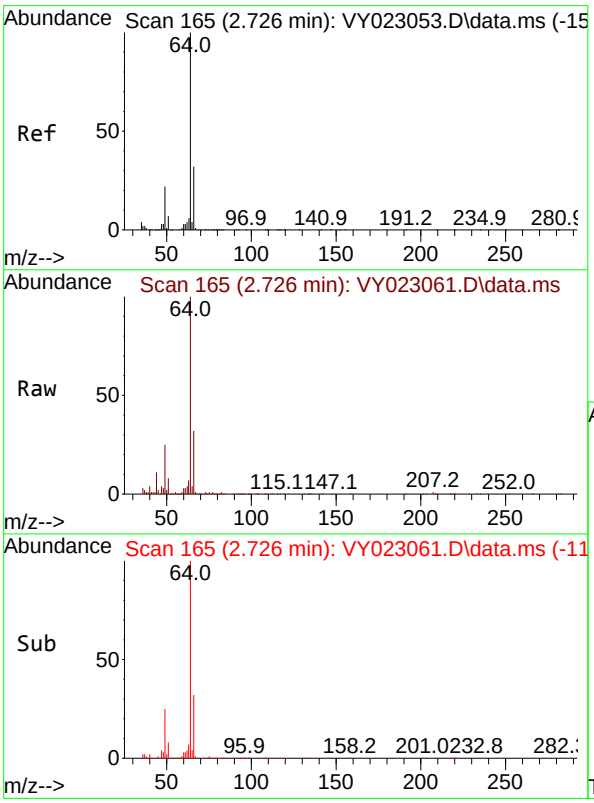
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 88.8 | 74.6 | 112.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations**
**APPROVED**

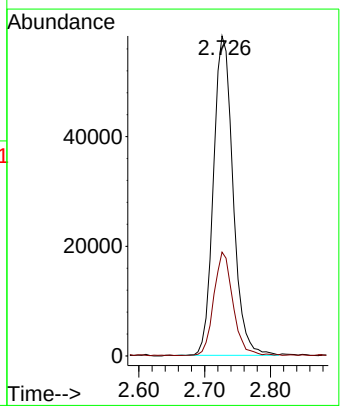
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

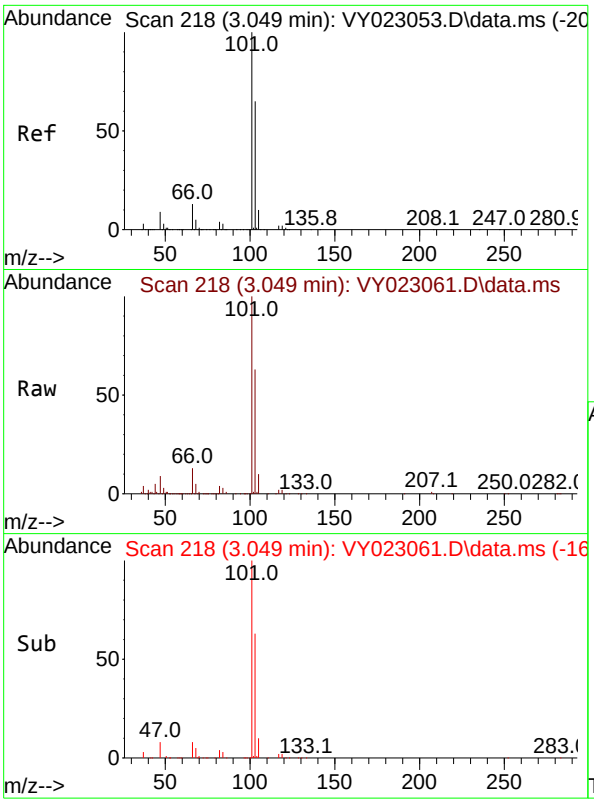



#6
Chloroethane
Concen: 23.227 ug/l
RT: 2.726 min Scan# 165
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 64 Resp: 120677

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.4 | 25.8 | 38.6 |






#7
Trichlorofluoromethane
Concen: 22.485 ug/l
RT: 3.049 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:101 Resp: 21366

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.0 | 51.9 | 77.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations**
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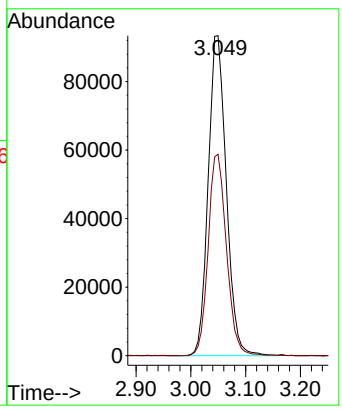
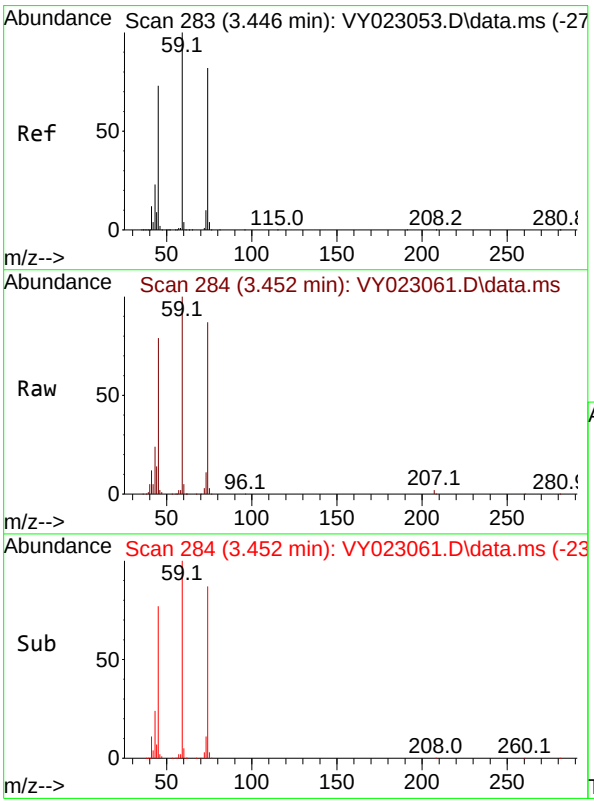
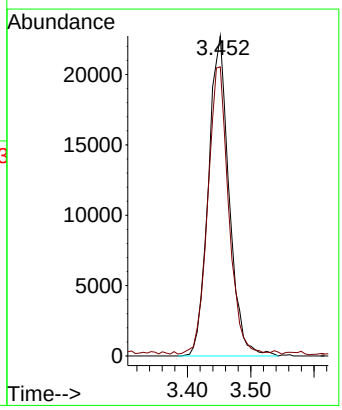


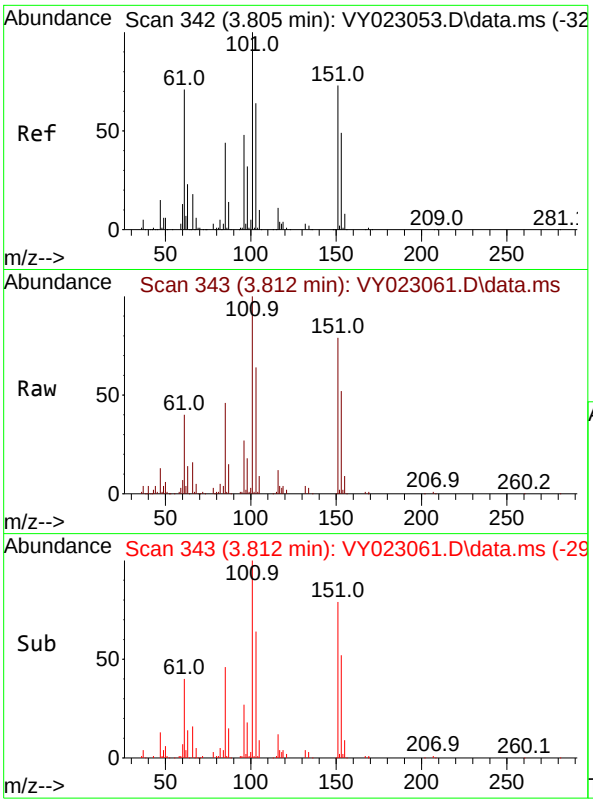




#8
Diethyl Ether
Concen: 20.553 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 74 Resp: 51671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 90.4 | 44.4 | 133.2 |

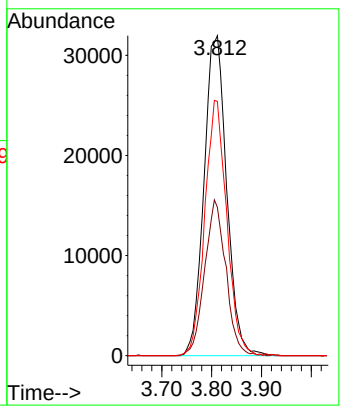





#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.545 ug/l
RT: 3.812 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:101 Resp: 10100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 45.7 | 36.3 | 54.5 |
| 151 | 77.2 | 61.5 | 92.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations**
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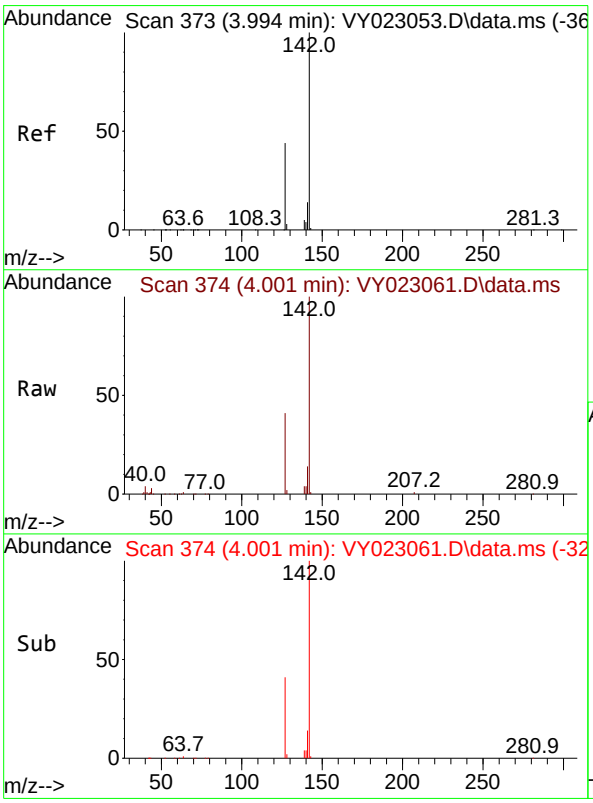
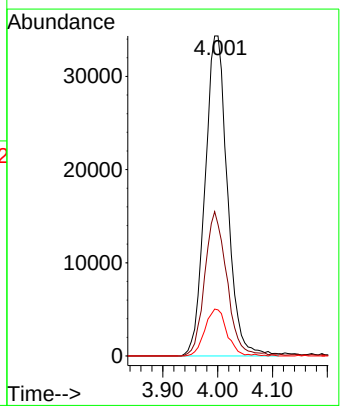
Supervised By :Semsettin Yesilyurt 08/19/2025

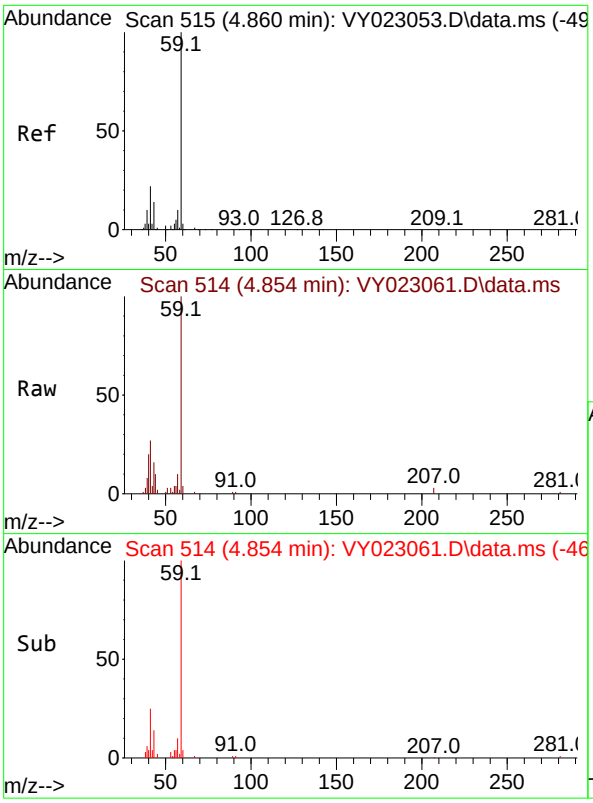



#10
Methyl Iodide
Concen: 19.249 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:142 Resp: 97379

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 44.6 | 34.9 | 52.3 |
| 141 | 14.5 | 11.3 | 16.9 |

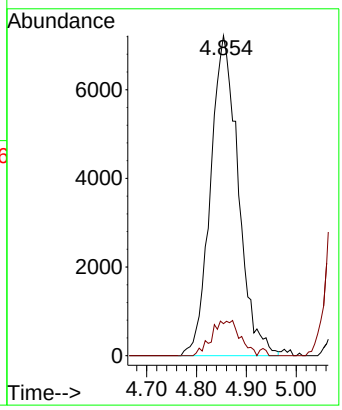





#11
Tert butyl alcohol
Concen: 89.450 ug/l
RT: 4.854 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 59 Resp: 2793

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 11.2 | 8.6 | 13.0 |




**Instrument :**
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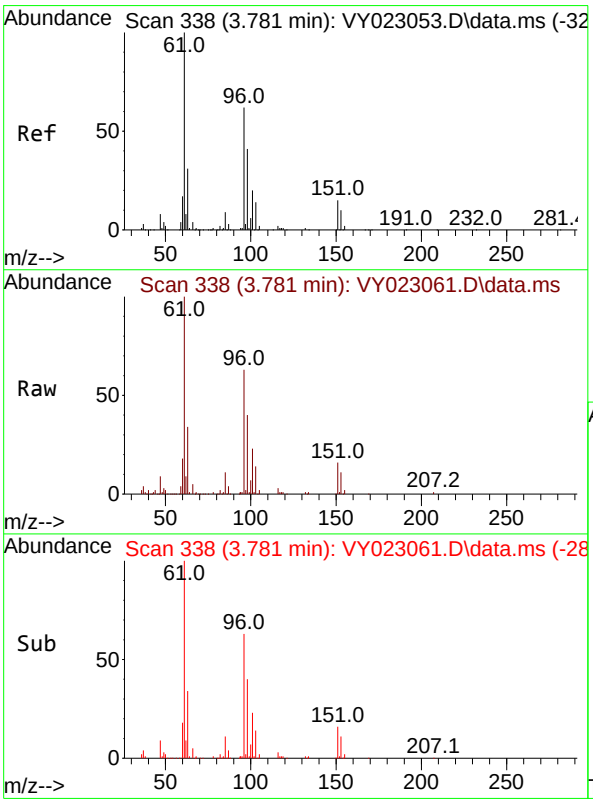
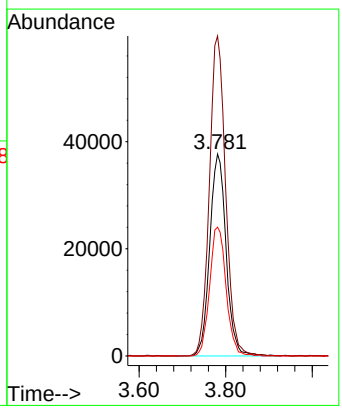
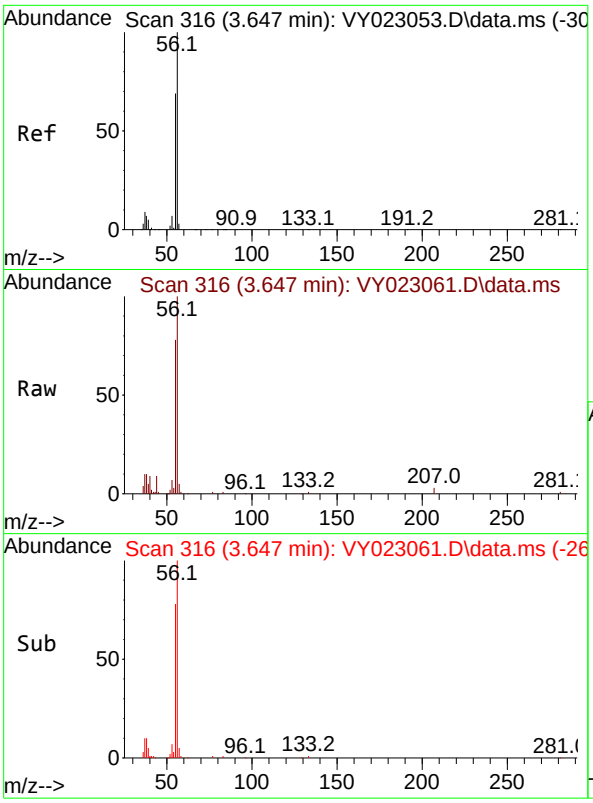



#12
1,1-Dichloroethene
Concen: 21.467 ug/l
RT: 3.781 min Scan# 338
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 96 Resp: 98921

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 158.4 | 129.4 | 194.2 |
| 98 | 63.8 | 52.8 | 79.2 |

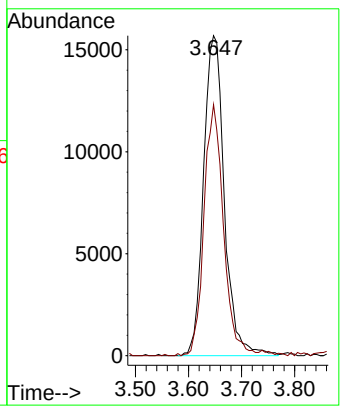





#13
Acrolein
Concen: 93.352 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 56 Resp: 4269

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 73.3 | 55.2 | 82.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations**
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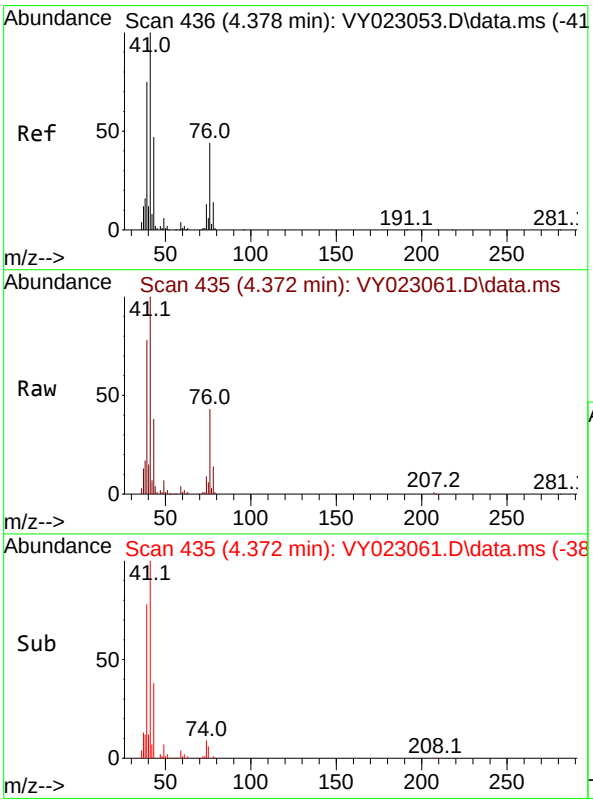
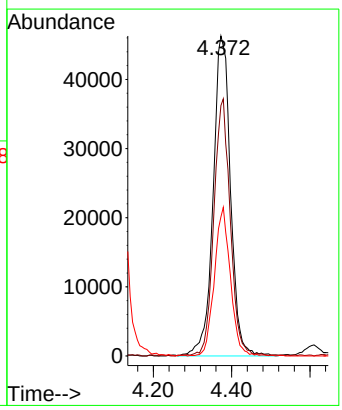
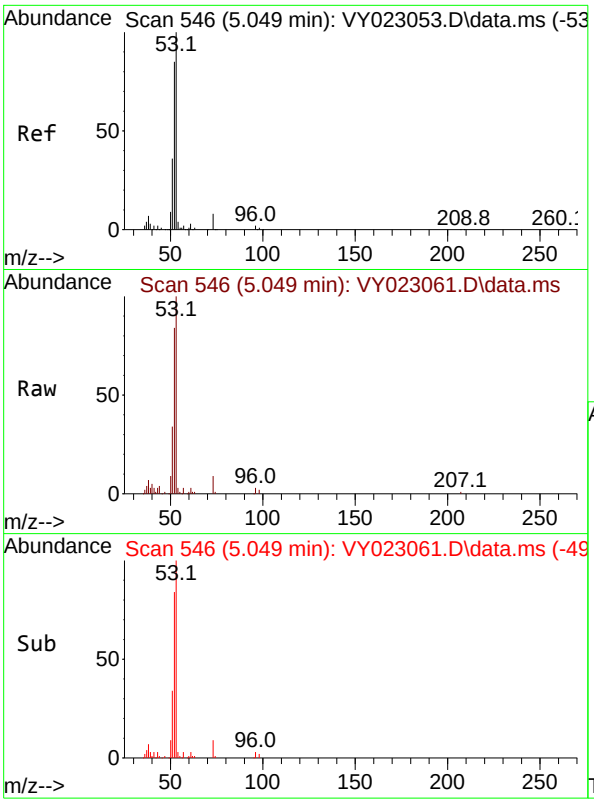



#14
Allyl chloride
Concen: 21.158 ug/l
RT: 4.372 min Scan# 435
Delta R.T. -0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 41 Resp: 143464

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 75.4 | 59.8 | 89.6 |
| 76 | 42.6 | 33.7 | 50.5 |






#15
Acrylonitrile
Concen: 98.653 ug/l
RT: 5.049 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 53 Resp: 10083

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 79.6 | 65.3 | 97.9 |
| 51 | 35.9 | 29.5 | 44.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations**
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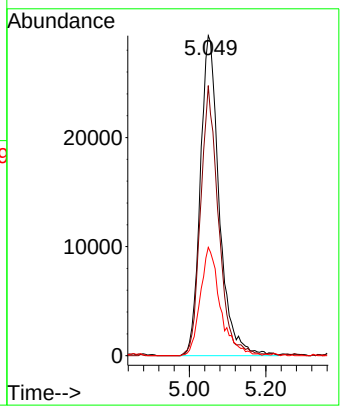
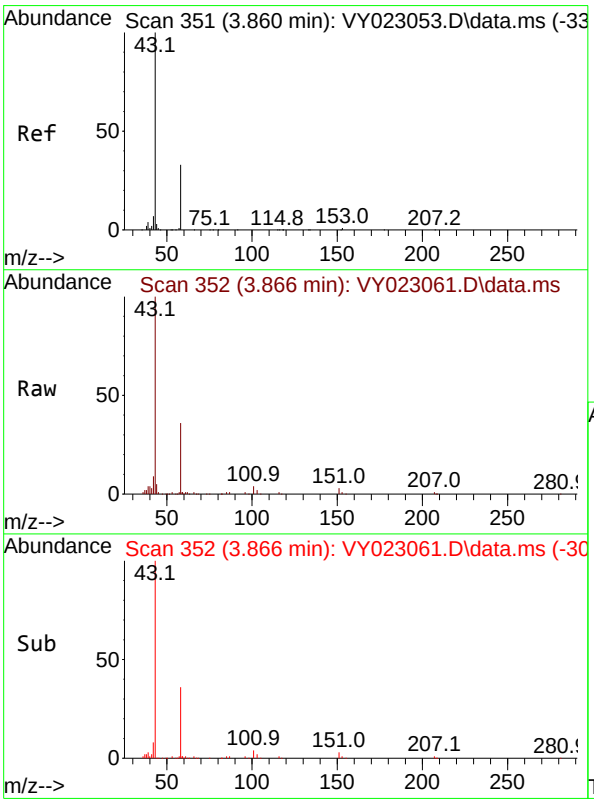
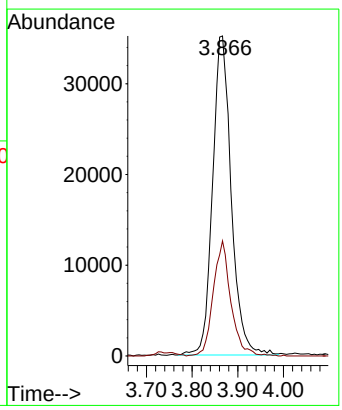


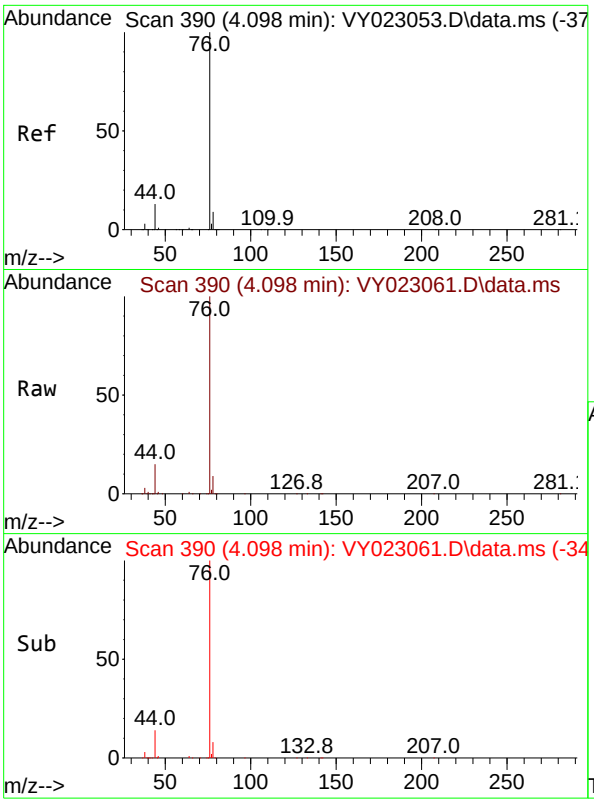




#16
Acetone
Concen: 101.199 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 43 Resp: 99920

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 36.1 | 27.1 | 40.7 |






#17
Carbon Disulfide
Concen: 21.737 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 76 Resp: 32660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.7 | 7.4 | 11.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations**
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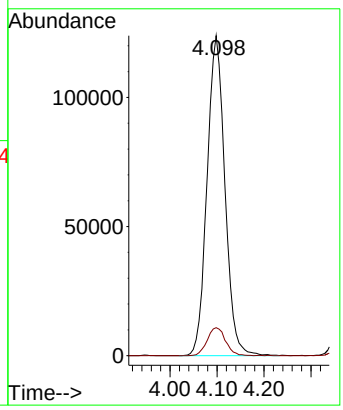
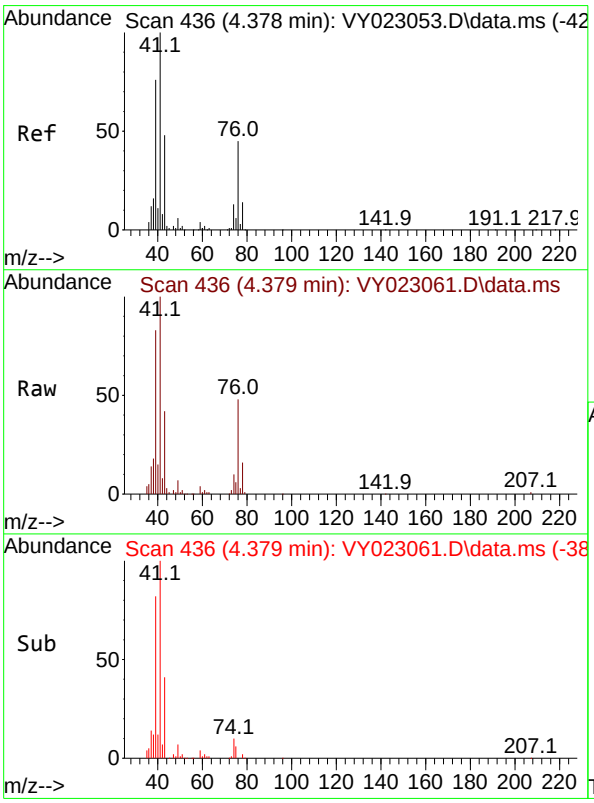
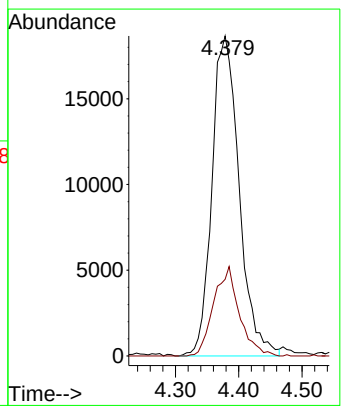


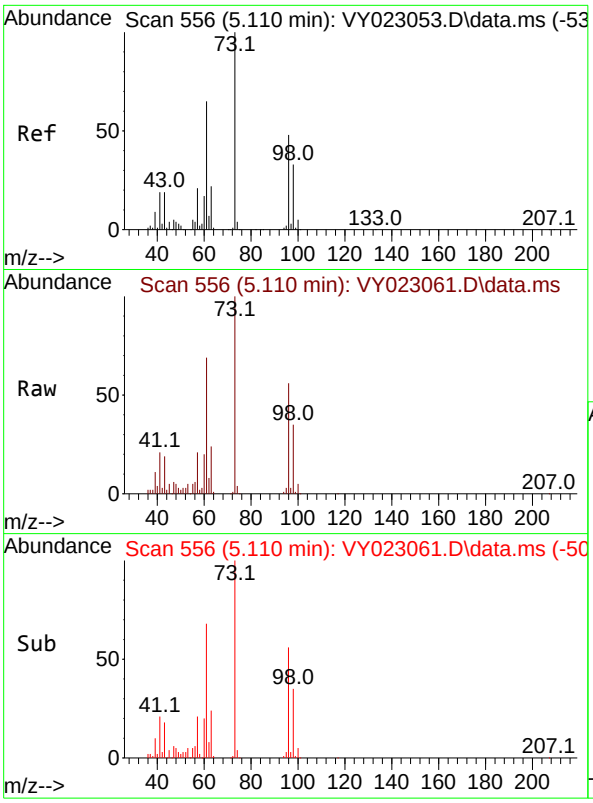




#18
Methyl Acetate
Concen: 18.953 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 43 Resp: 55687

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 26.3 | 21.2 | 31.8 |

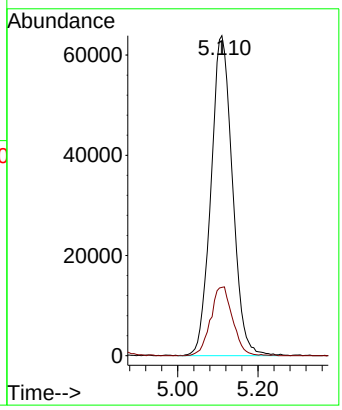





#19
Methyl tert-butyl Ether
Concen: 19.892 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 73 Resp: 23753

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.4 | 17.1 | 25.7 |




**Instrument :**
MSVOA_Y
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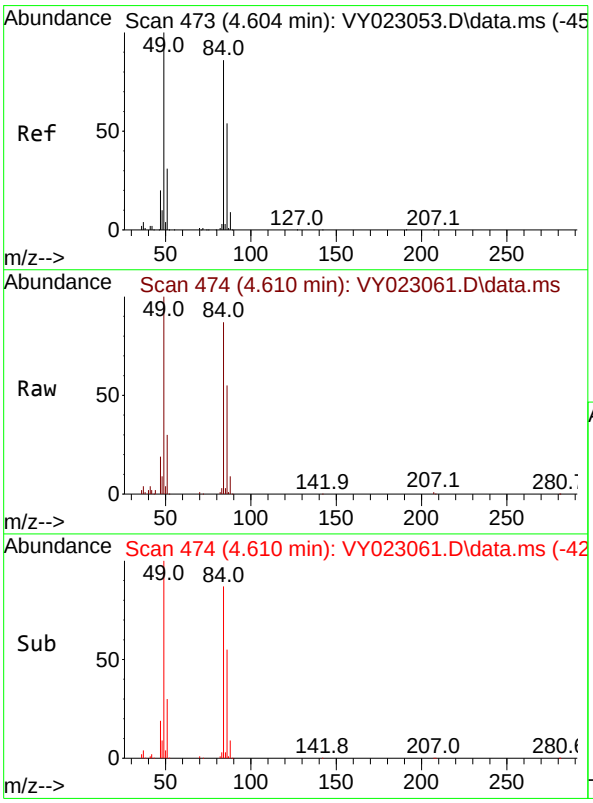
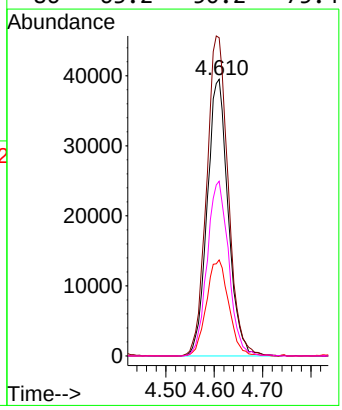
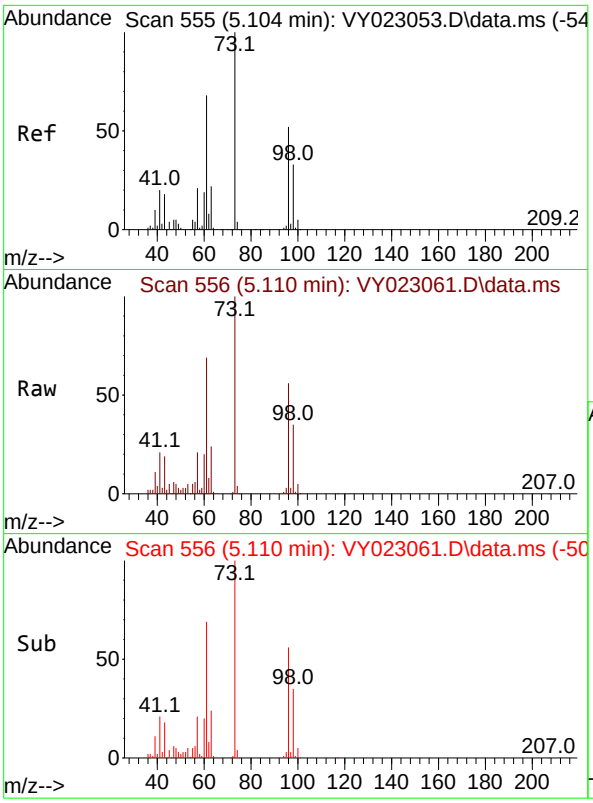



#20
Methylene Chloride
Concen: 21.623 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 84 Resp: 118853

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 115.1 | 93.0 | 139.6 |
| 51 | 34.7 | 29.0 | 43.4 |
| 86 | 63.2 | 50.2 | 75.4 |

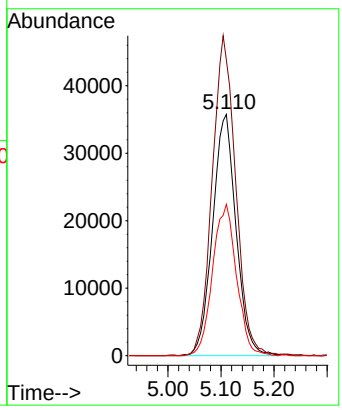





#21
trans-1,2-Dichloroethene
Concen: 21.230 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 96 Resp: 10994

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 122.5 | 104.8 | 157.2 |
| 98 | 62.7 | 50.1 | 75.1 |




**Instrument :**
MSVOA_Y
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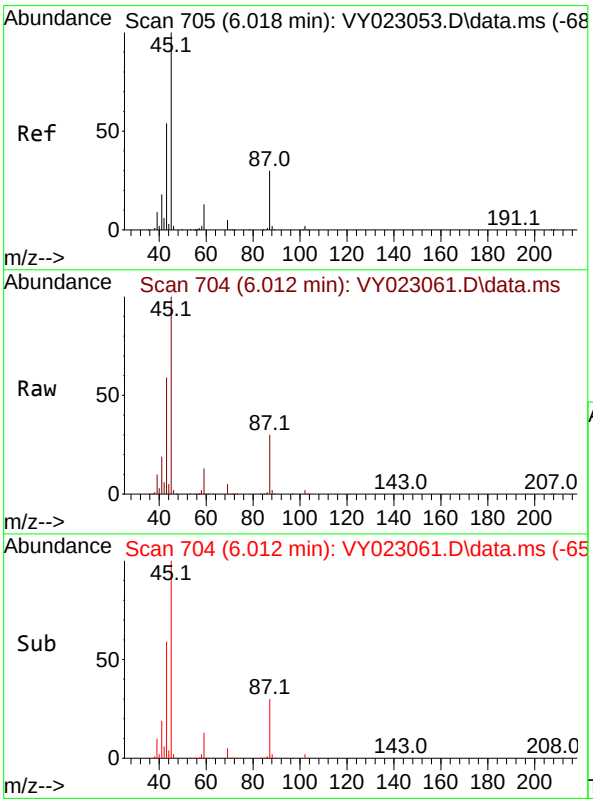
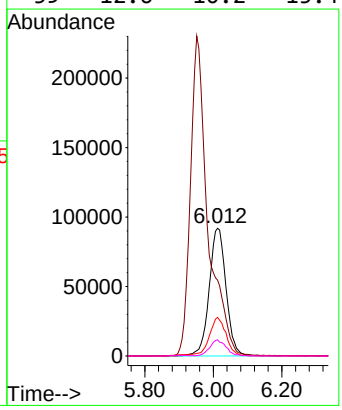
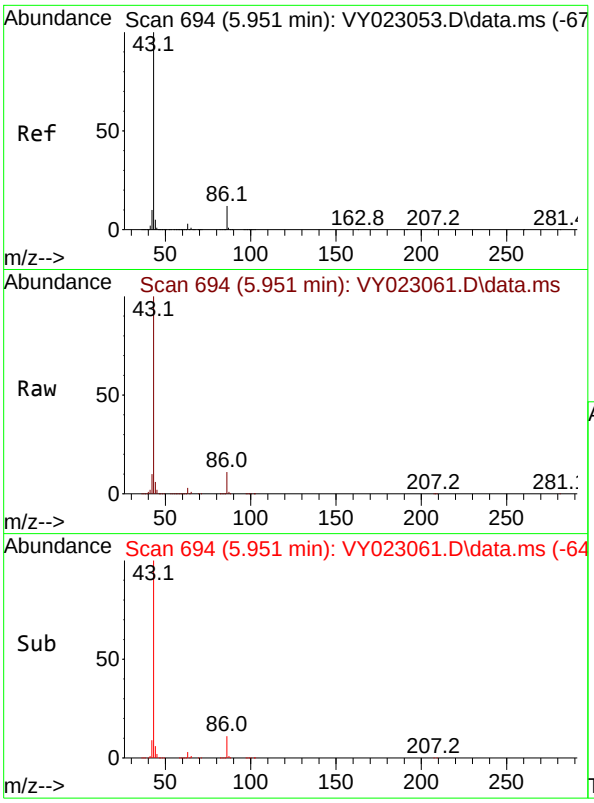



#22
Diisopropyl ether
Concen: 21.310 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 45 Resp: 313978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 59.0 | 43.4 | 65.0 |
| 87 | 30.2 | 24.4 | 36.6 |
| 59 | 12.6 | 10.2 | 15.4 |

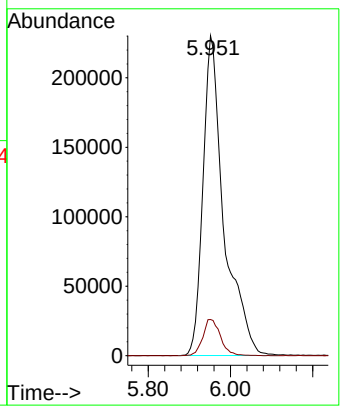





#23
Vinyl Acetate
Concen: 100.034 ug/l
RT: 5.951 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 43 Resp: 81499

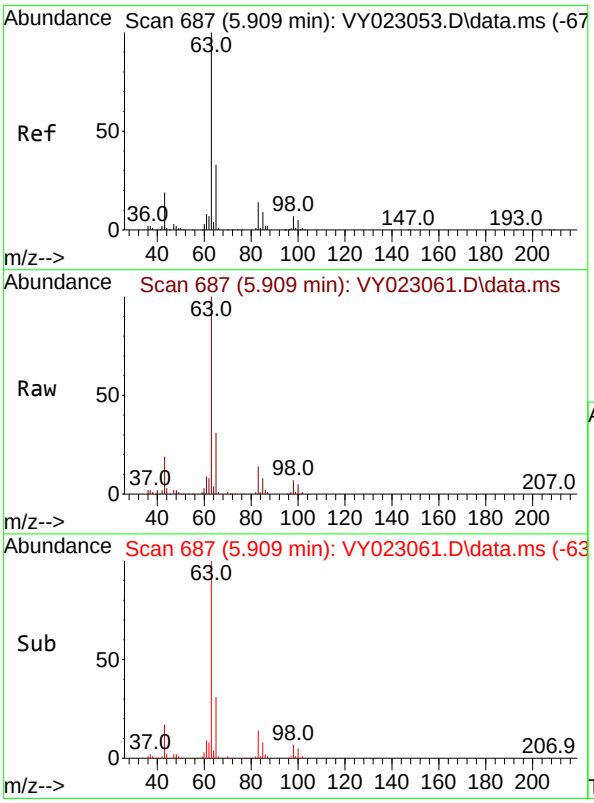
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.3 | 9.6 | 14.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations**
**APPROVED**

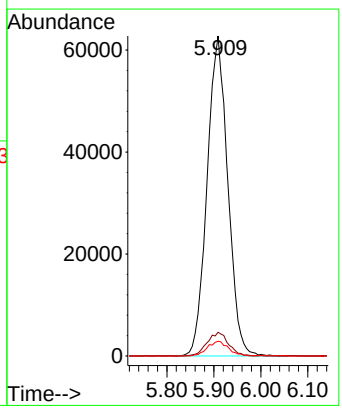
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

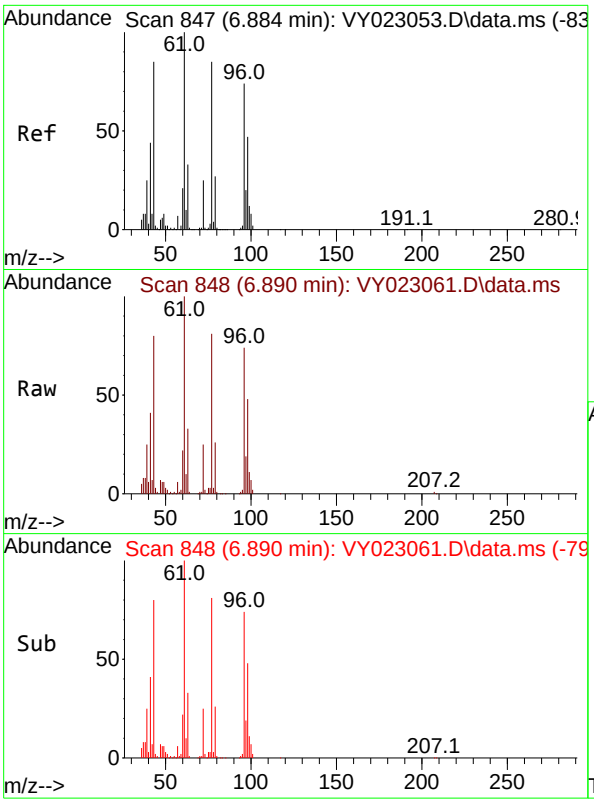



#24
1,1-Dichloroethane
Concen: 21.326 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 63 Resp: 192114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.4 | 3.5 | 10.6 |
| 100 | 4.6 | 2.4 | 7.1 |






#25
2-Butanone
Concen: 97.389 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 43 Resp: 13077

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 31.6 | 23.5 | 35.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations**
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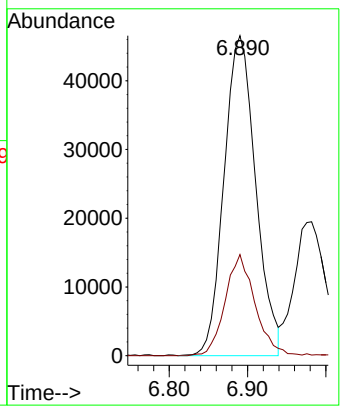
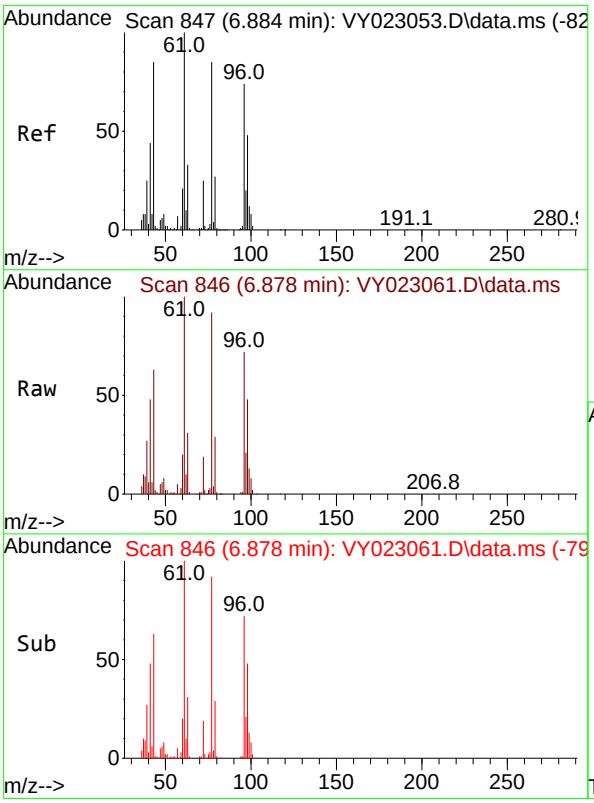
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

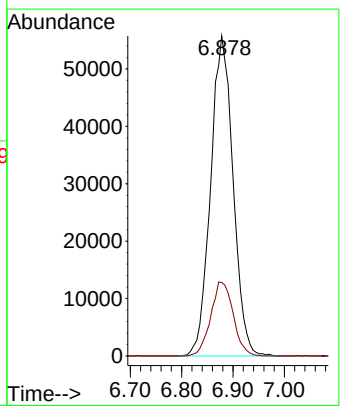


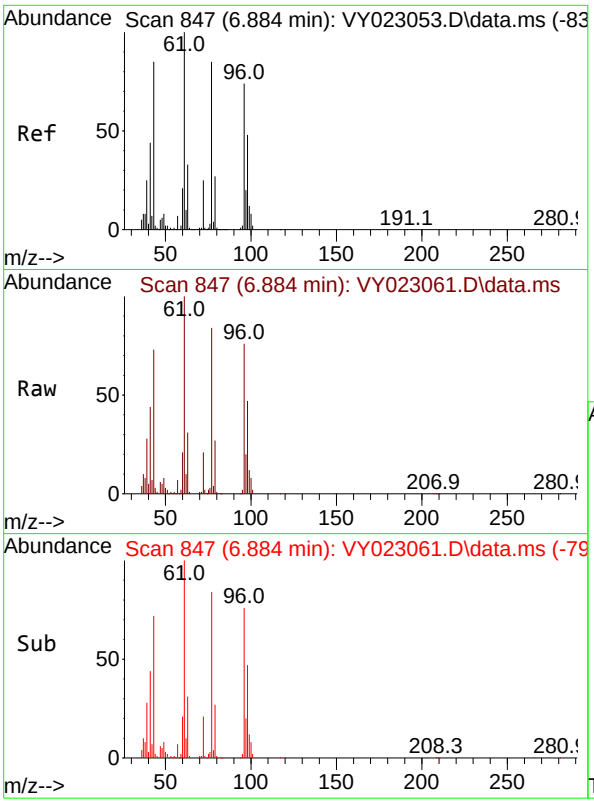




#26
2,2-Dichloropropane
Concen: 21.776 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 77 Resp: 169264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.2 | 11.6 | 34.8 |

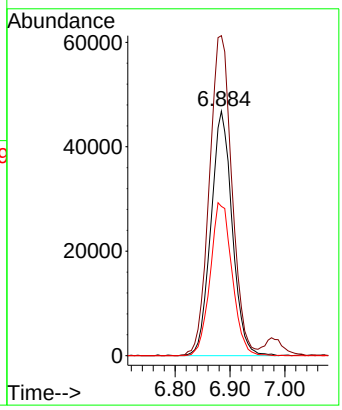





#27
cis-1,2-Dichloroethene
Concen: 21.095 ug/l
RT: 6.884 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 96 Resp: 12629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 138.9 | 0.0 | 278.6 |
| 98 | 64.3 | 0.0 | 130.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations**
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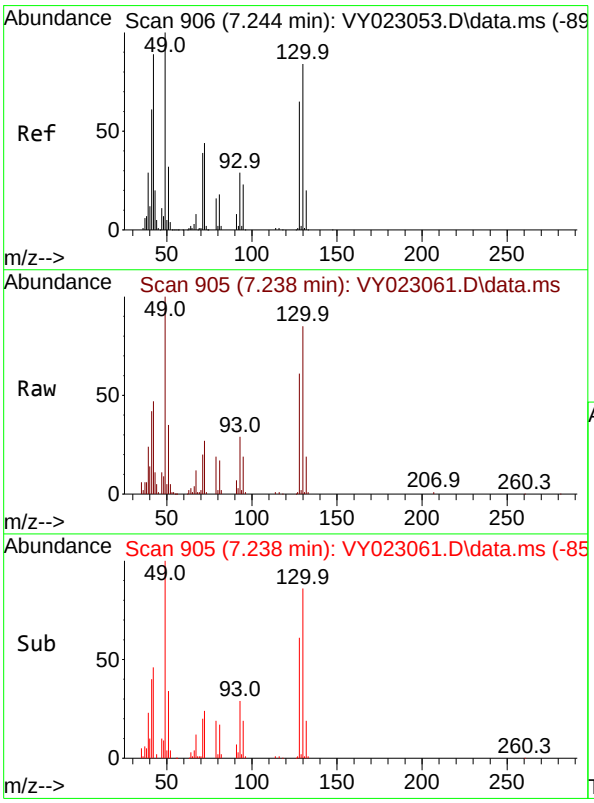
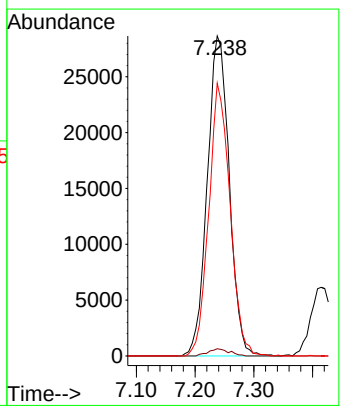
Supervised By :Semsettin Yesilyurt 08/19/2025

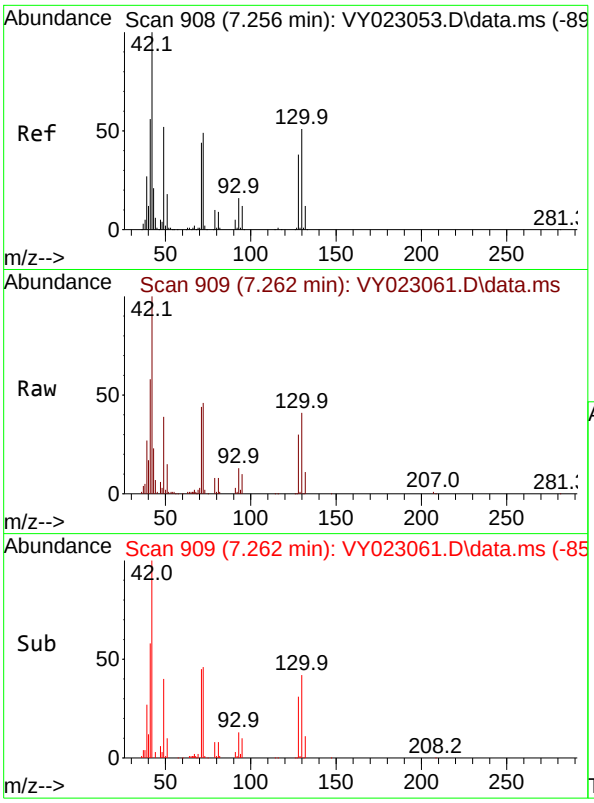



#28
Bromochloromethane
Concen: 20.802 ug/l
RT: 7.238 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 49 Resp: 74346

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.2 | 0.0 | 4.2 |
| 130 | 82.5 | 66.4 | 99.6 |

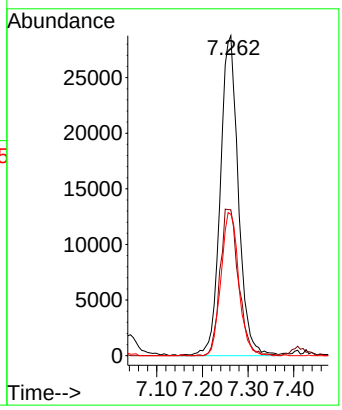





#29
Tetrahydrofuran
Concen: 94.913 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 42 Resp: 7900

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 47.0 | 39.4 | 59.2 |
| 71 | 44.1 | 36.5 | 54.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations**
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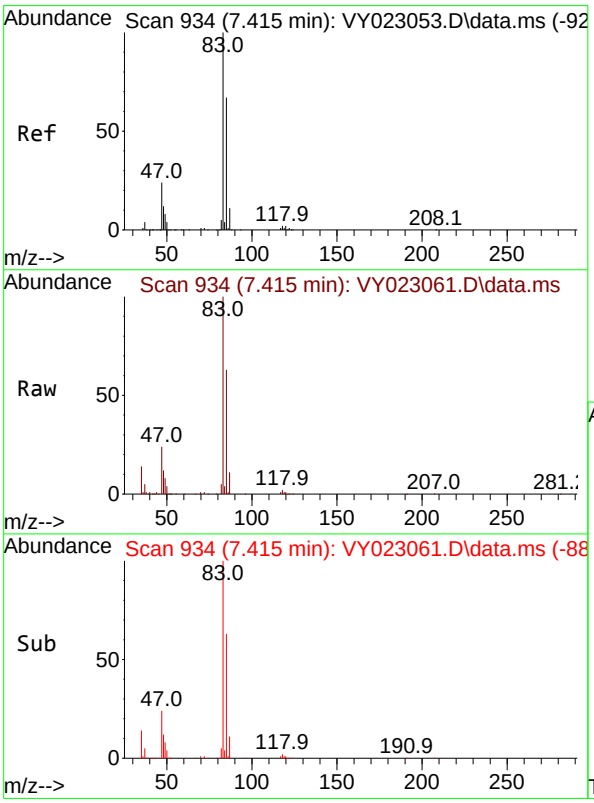
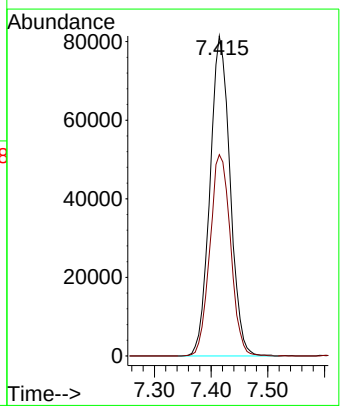
Supervised By :Semsettin Yesilyurt 08/19/2025

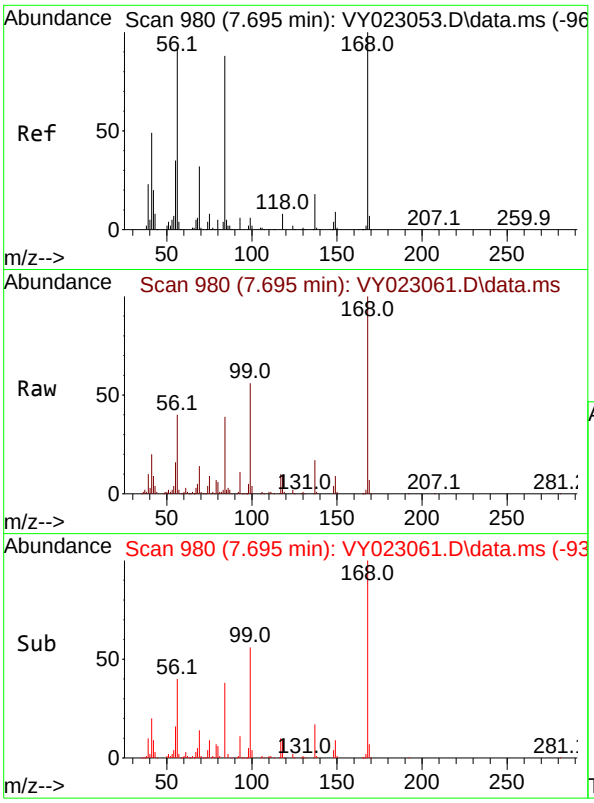



#30
Chloroform
Concen: 21.559 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 83 Resp: 200297

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.9 | 53.8 | 80.8 |

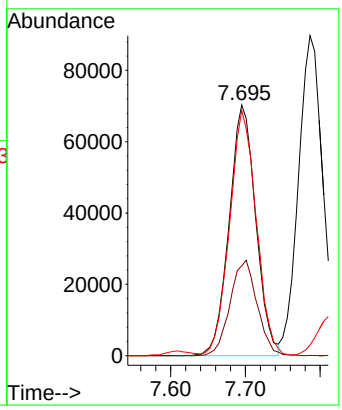





#31
Cyclohexane
Concen: 20.493 ug/l
RT: 7.695 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 56 Resp: 17395

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 35.9 | 28.2 | 42.2 |
| 84 | 95.9 | 76.6 | 114.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations**
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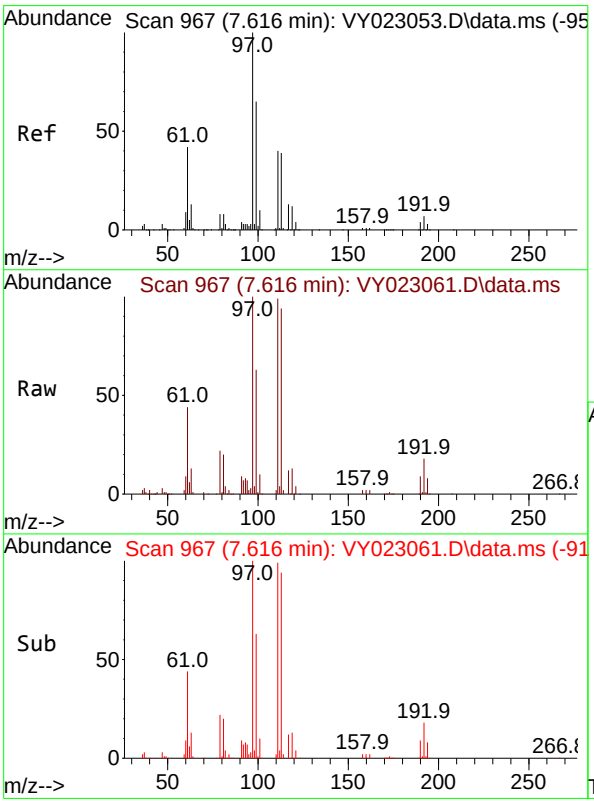
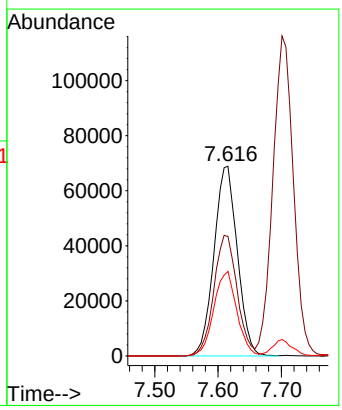
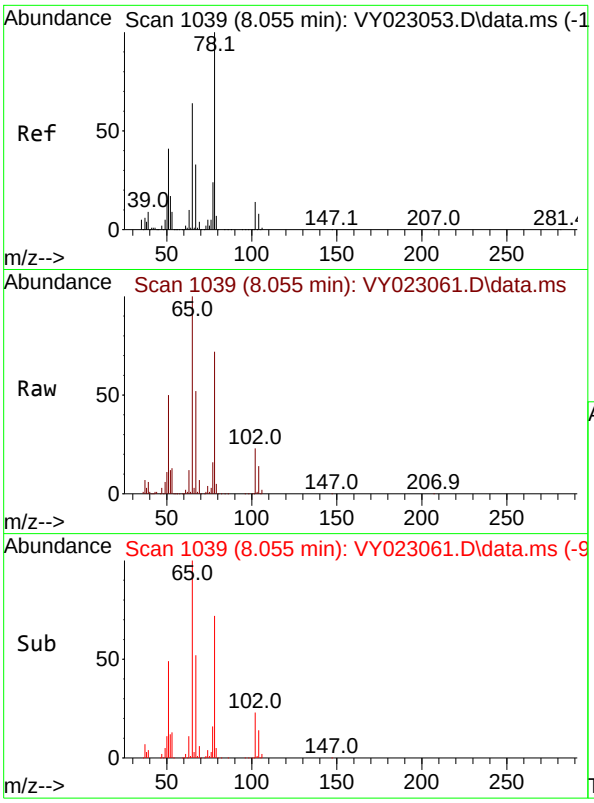



#32
1,1,1-Trichloroethane
Concen: 21.416 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 97 Resp: 176542

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.5 | 51.6 | 77.4 |
| 61 | 44.0 | 34.2 | 51.2 |






#33
1,2-Dichloroethane-d4
Concen: 50.326 ug/l
RT: 8.055 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 65 Resp: 22936

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.5 | 0.0 | 106.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations**
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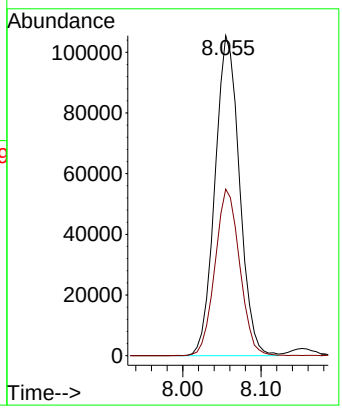
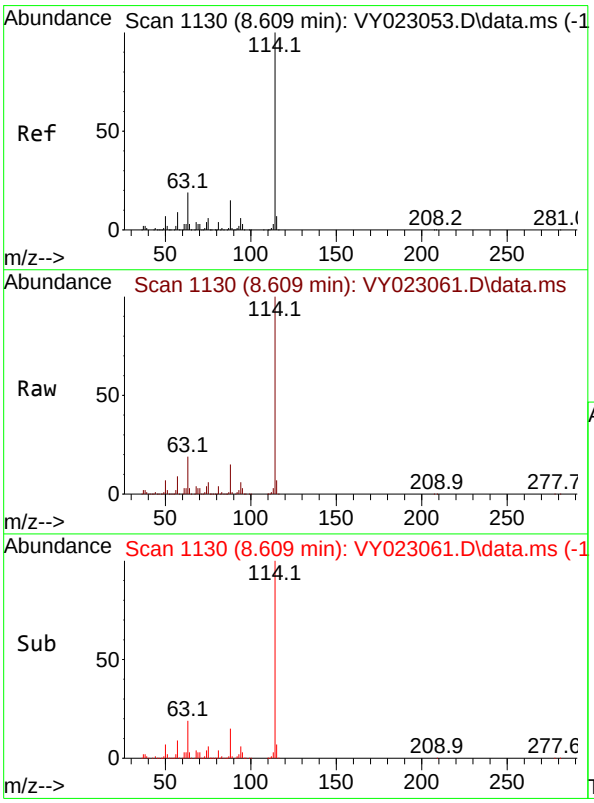
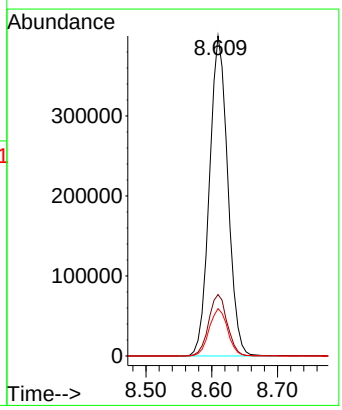


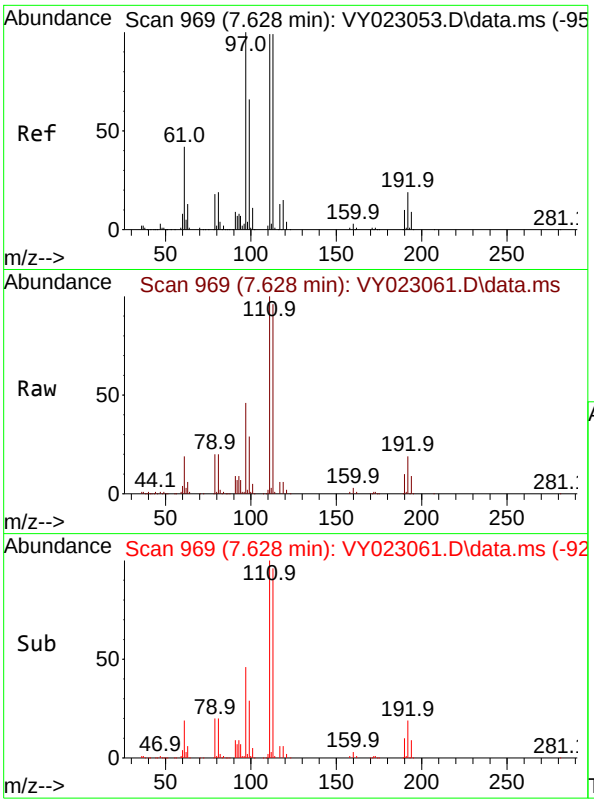




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:114 Resp: 775826

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.2 | 0.0 | 38.4 |
| 88 | 14.8 | 0.0 | 30.0 |

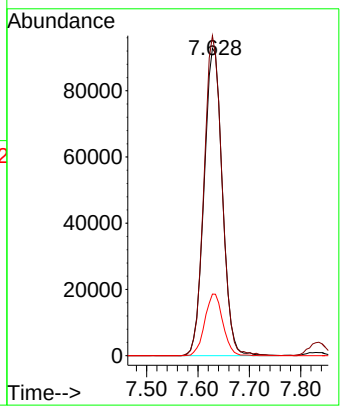





#35
Dibromofluoromethane
Concen: 49.398 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:113 Resp: 22932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.2 | 81.1 | 121.7 |
| 192 | 19.9 | 16.2 | 24.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations**
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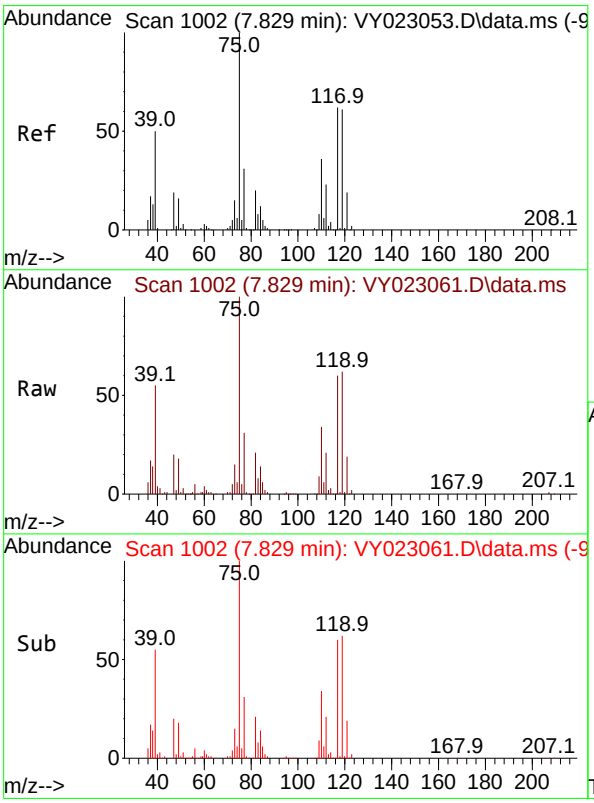
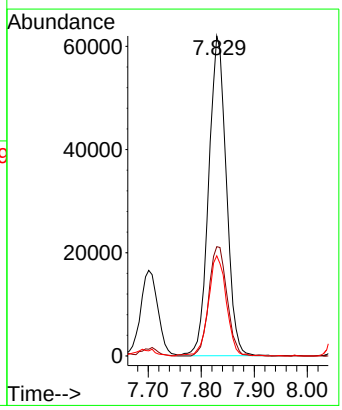
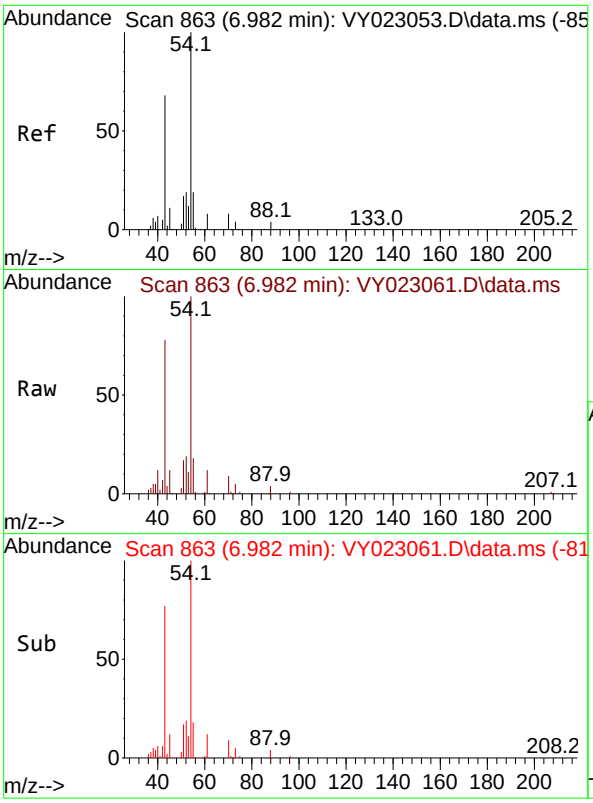



#36
1,1-Dichloropropene
Concen: 20.716 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 75 Resp: 142922

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.3 | 18.1 | 54.4 |
| 77 | 32.0 | 24.6 | 37.0 |






#37
Ethyl Acetate
Concen: 19.200 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 43 Resp: 5564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.6 | 11.9 | 17.9 |
| 70 | 11.3 | 8.8 | 13.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations**
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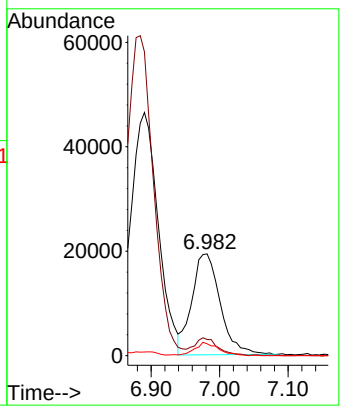
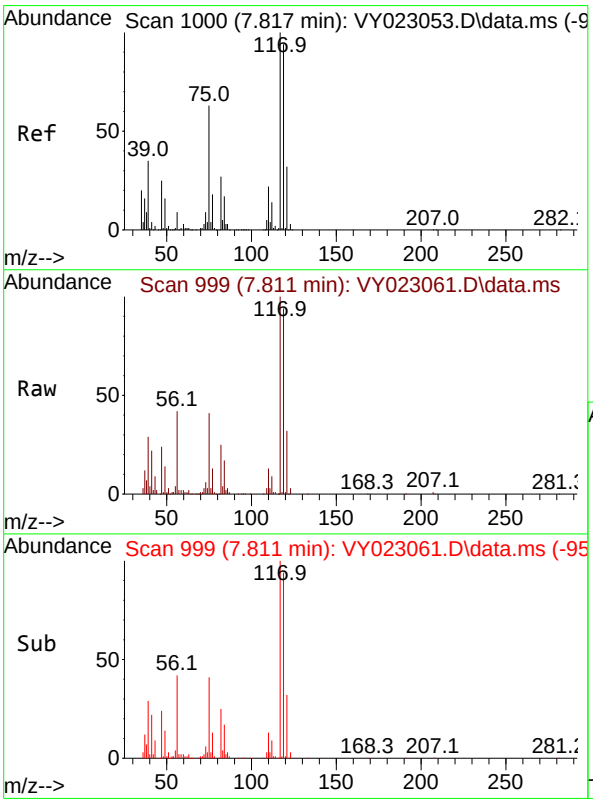
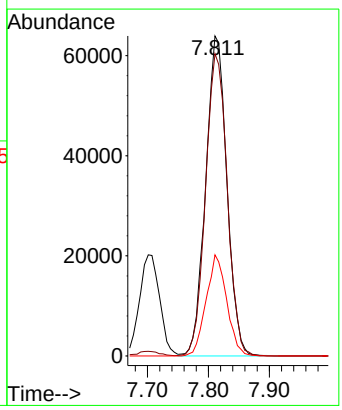


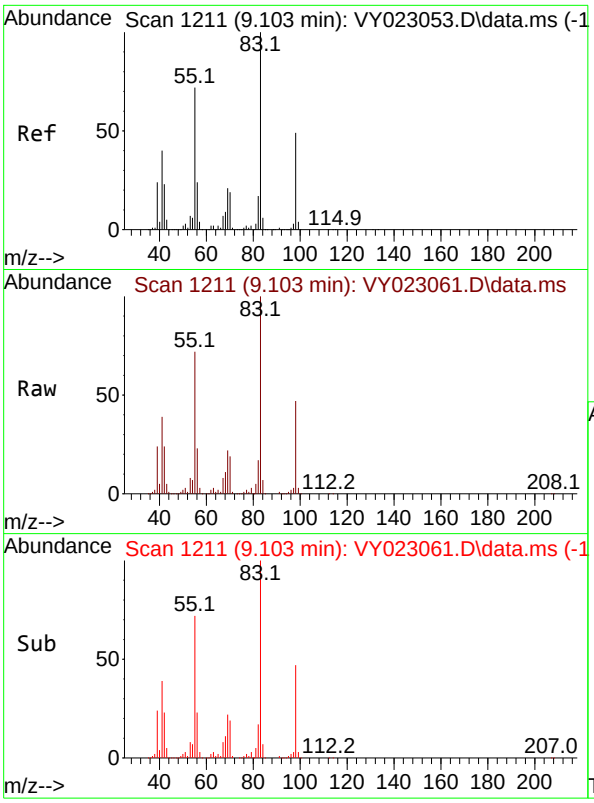




#38
Carbon Tetrachloride
Concen: 20.674 ug/l
RT: 7.811 min Scan# 999
Delta R.T. -0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:117 Resp: 154916

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.5 | 75.6 | 113.4 |
| 121 | 31.6 | 25.8 | 38.8 |

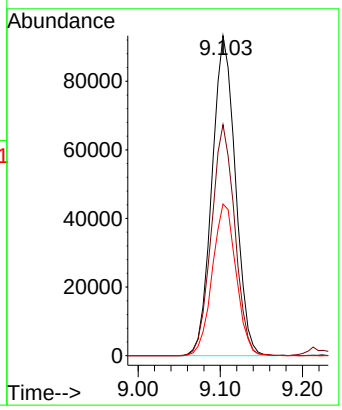





#39
Methylcyclohexane
Concen: 20.258 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 83 Resp: 18405

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 72.2 | 57.6 | 86.4 |
| 98 | 47.4 | 39.2 | 58.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations**
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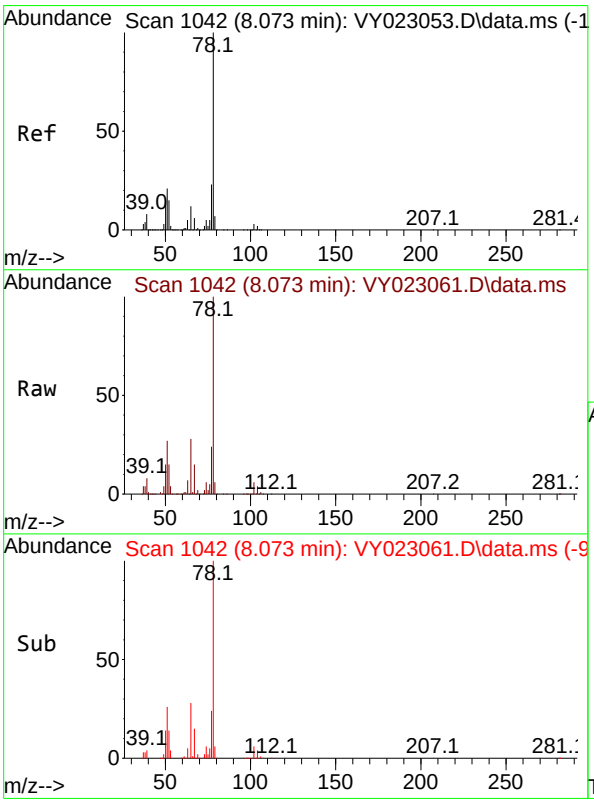
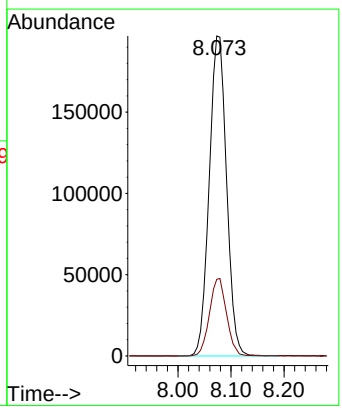
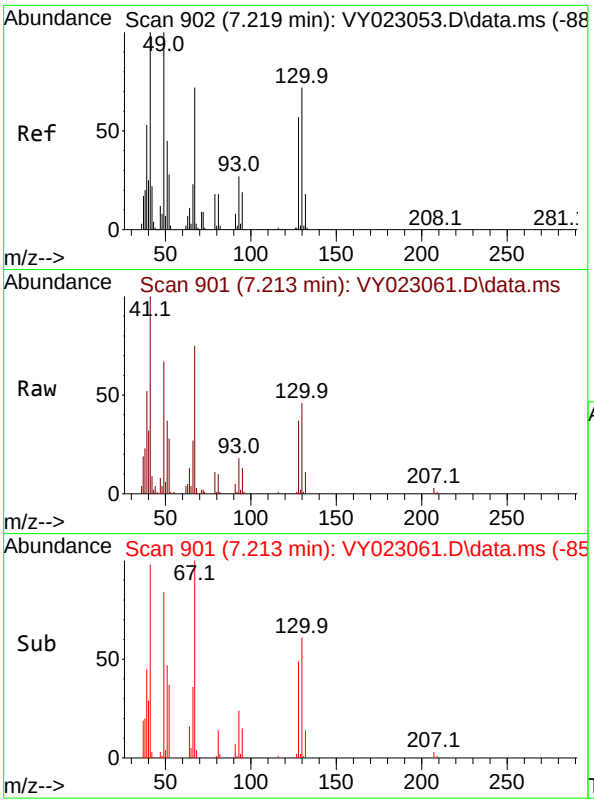



#40
Benzene
Concen: 21.020 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 78 Resp: 446973

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.9 | 18.6 | 28.0 |

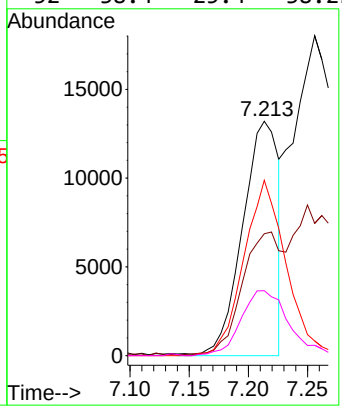





#41
Methacrylonitrile
Concen: 16.633 ug/l m
RT: 7.213 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 41 Resp: 2781

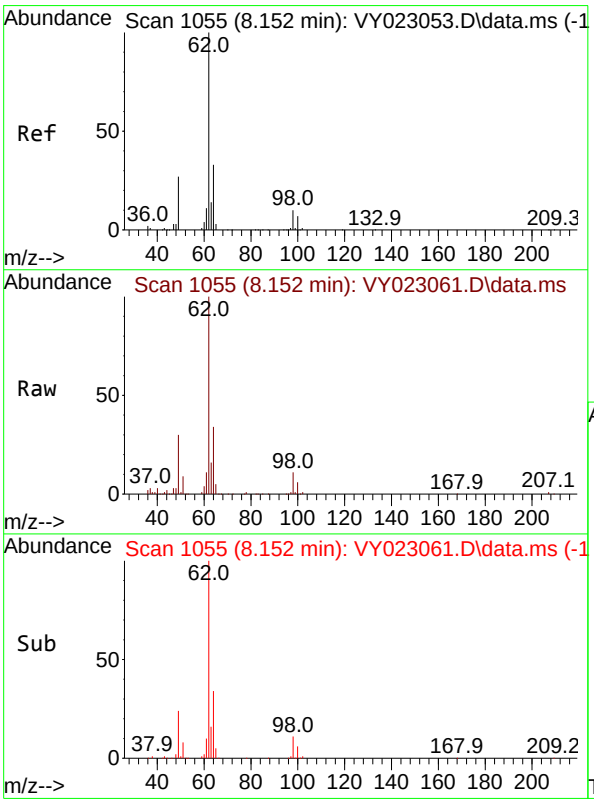
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 60.7 | 43.4 | 65.2 |
| 67 | 88.9 | 63.6 | 95.4 |
| 52 | 38.4 | 25.4 | 38.2# |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations**
**APPROVED**

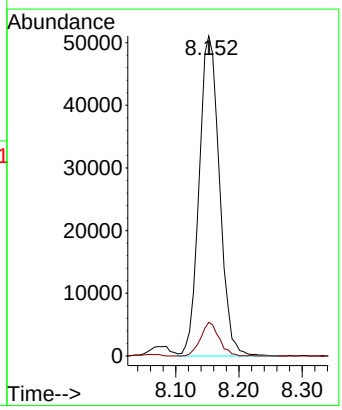
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

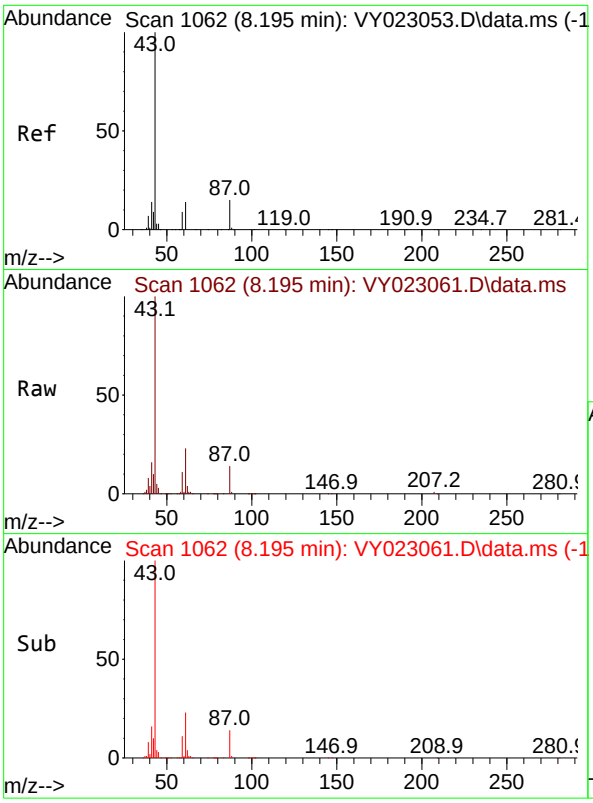



#42
1,2-Dichloroethane
Concen: 20.668 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 62 Resp: 114299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.6 | 0.0 | 20.6 |

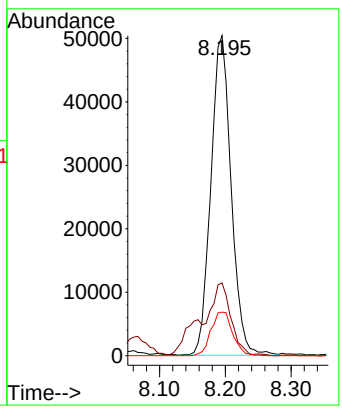





#43
Isopropyl Acetate
Concen: 18.507 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 43 Resp: 10840

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 22.2 | 16.4 | 24.6 |
| 87 | 14.5 | 11.8 | 17.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations**
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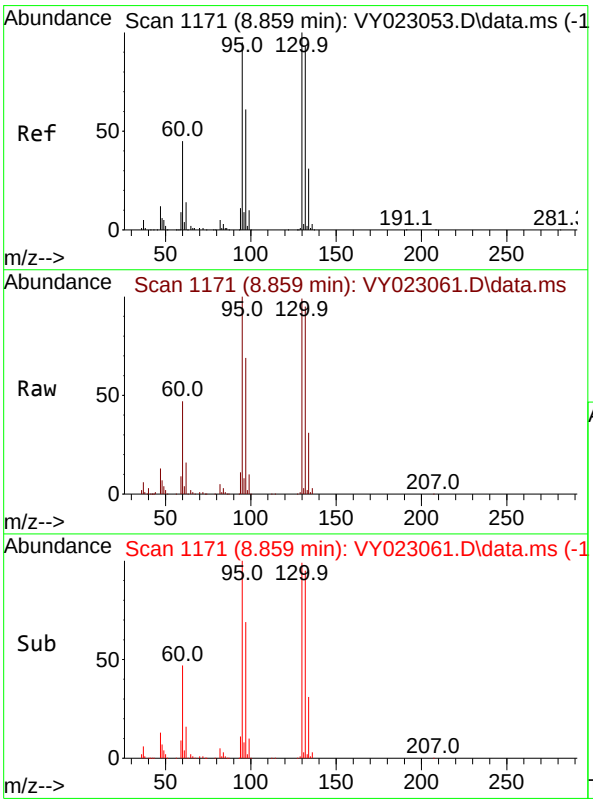
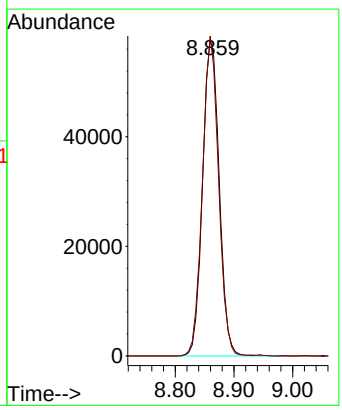
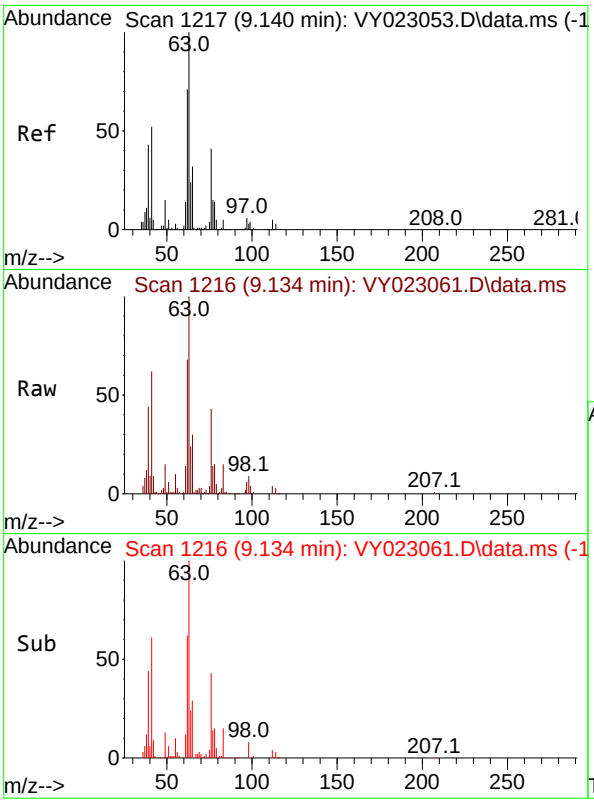



#44
Trichloroethene
Concen: 20.652 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:130 Resp: 113487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 101.0 | 0.0 | 190.2 |






#45
1,2-Dichloropropane
Concen: 21.073 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 63 Resp: 10310

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 29.8 | 25.3 | 37.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations**
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Reviewed By :Mahesh Dadoda 08/18/2025
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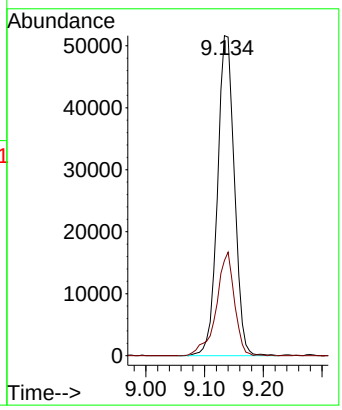
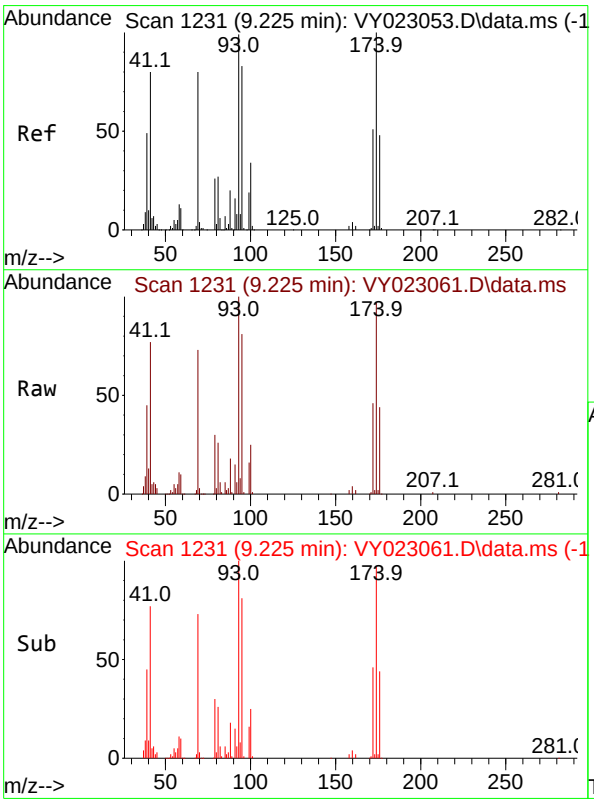
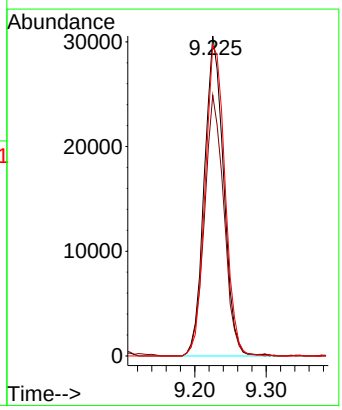


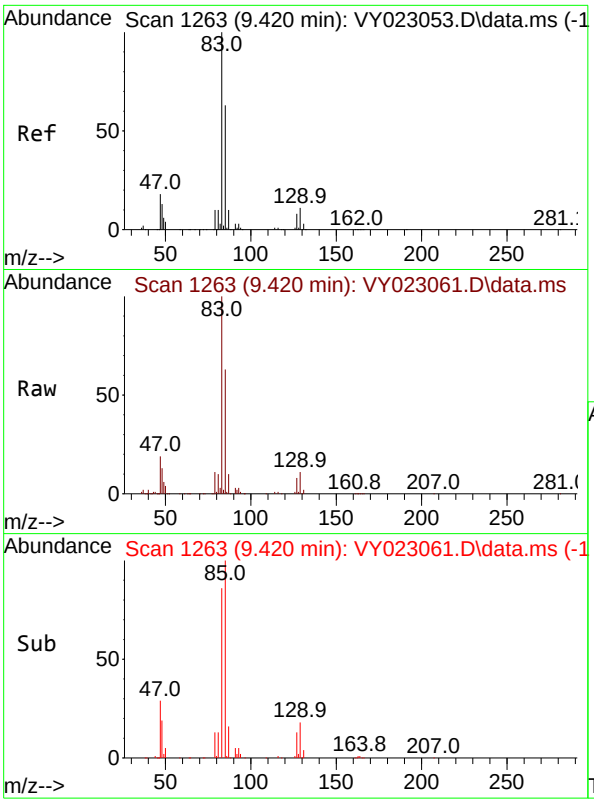




#46
Dibromomethane
Concen: 20.408 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 93 Resp: 57310

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.2 | 66.5 | 99.7 |
| 174 | 100.0 | 81.8 | 122.8 |

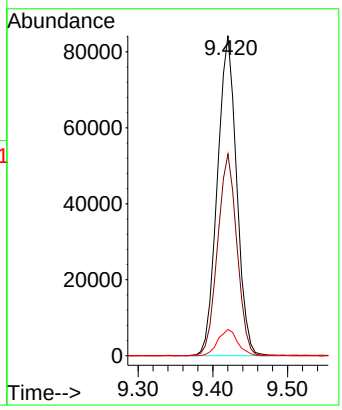





#47
Bromodichloromethane
Concen: 20.900 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 83 Resp: 15102

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.0 | 50.2 | 75.4 |
| 127 | 8.2 | 6.6 | 10.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations**
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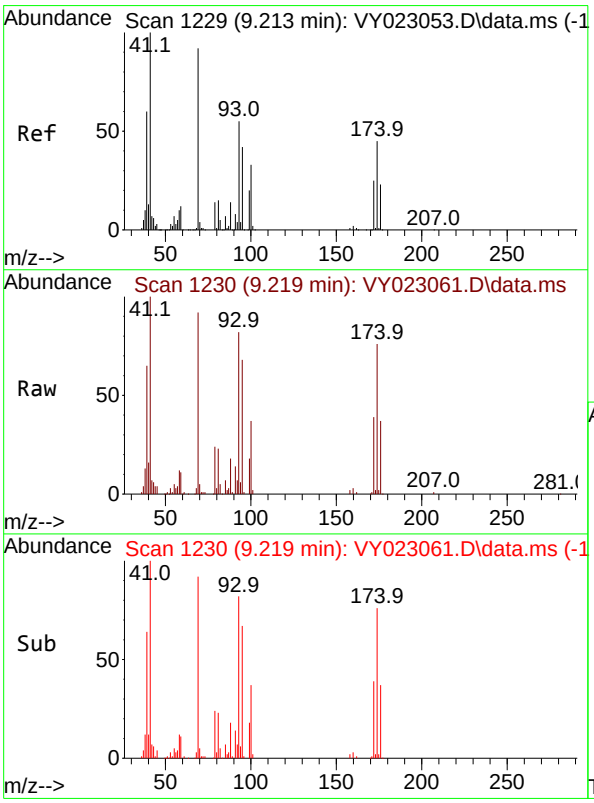
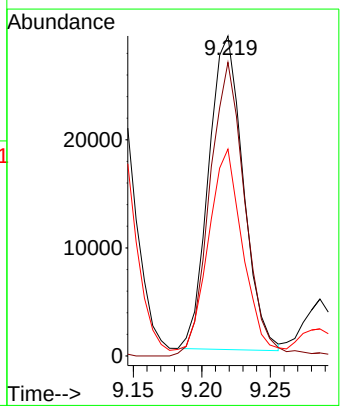
Supervised By :Semsettin Yesilyurt 08/19/2025

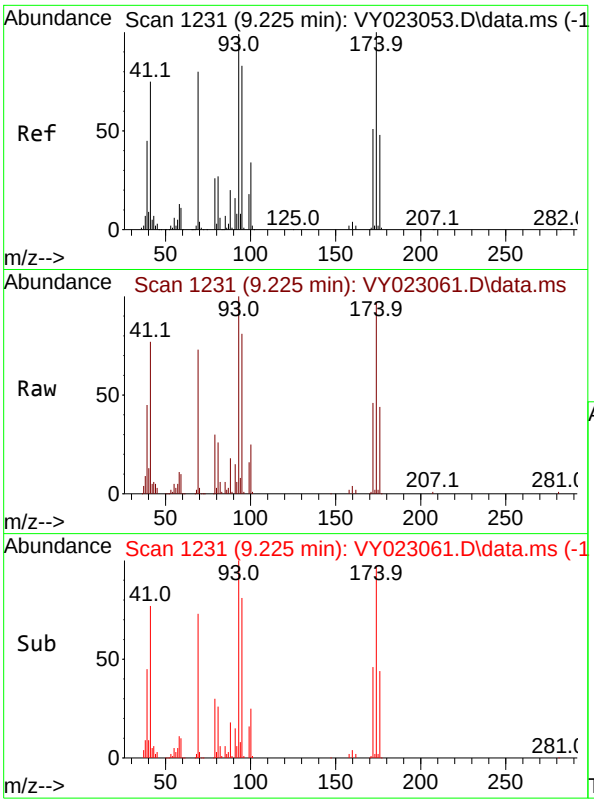



#48
Methyl methacrylate
Concen: 18.207 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 41 Resp: 51033

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 95.5 | 73.2 | 109.8 |
| 39 | 62.7 | 47.0 | 70.4 |






#49
1,4-Dioxane
Concen: 405.561 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 88 Resp: 1335

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 29.7 | 24.3 | 36.5 |
| 58 | 68.0 | 55.4 | 83.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations**
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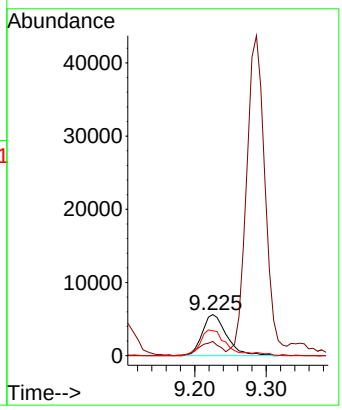
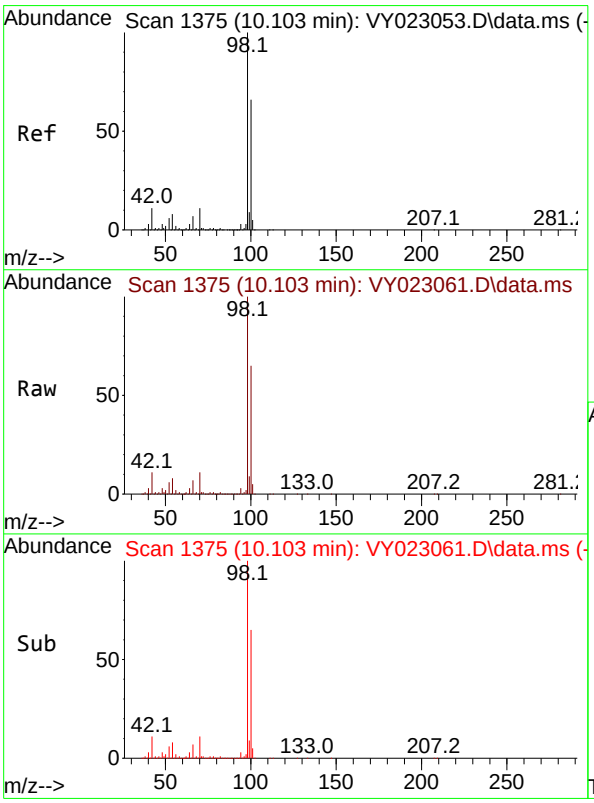
Supervised By :Semsettin Yesilyurt 08/19/2025

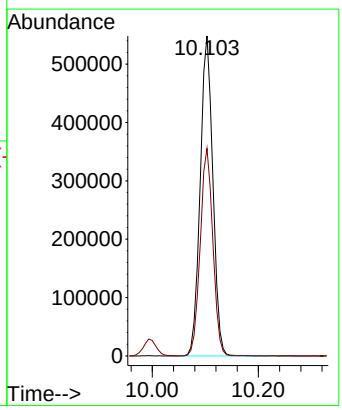


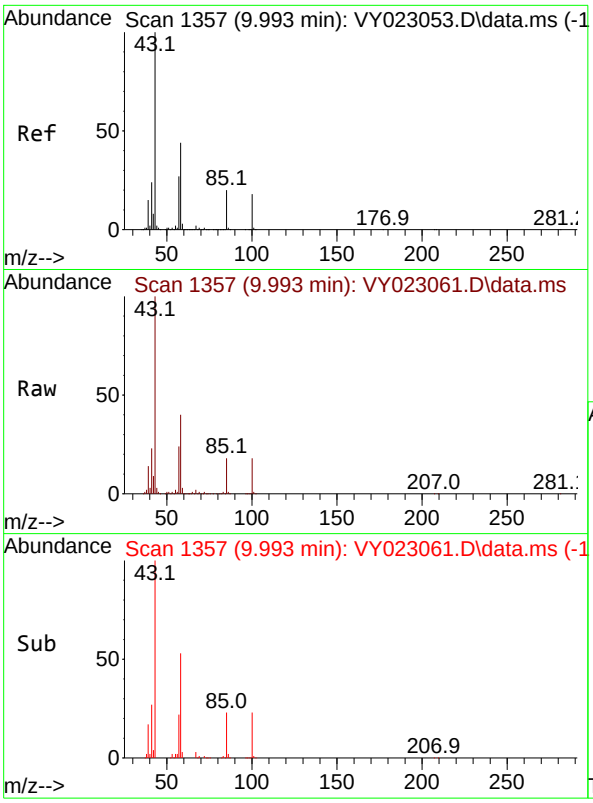




#50
Toluene-d8
Concen: 49.992 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 98 Resp: 906626

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.7 | 52.3 | 78.5 |

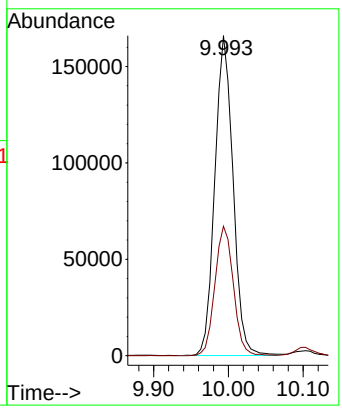





#51
4-Methyl-2-Pentanone
Concen: 93.183 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 43 Resp: 28155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 41.1 | 33.5 | 50.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations**
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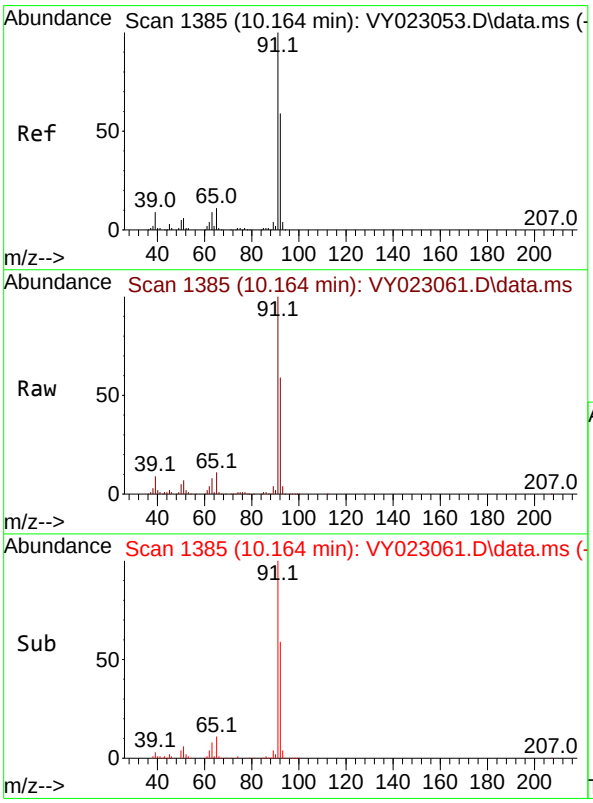
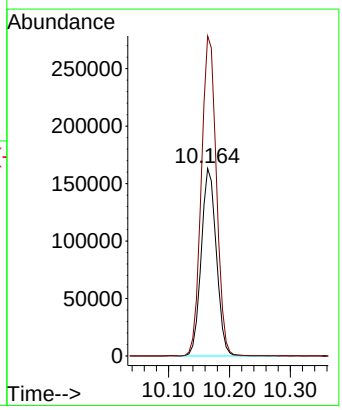
Supervised By :Semsettin Yesilyurt 08/19/2025

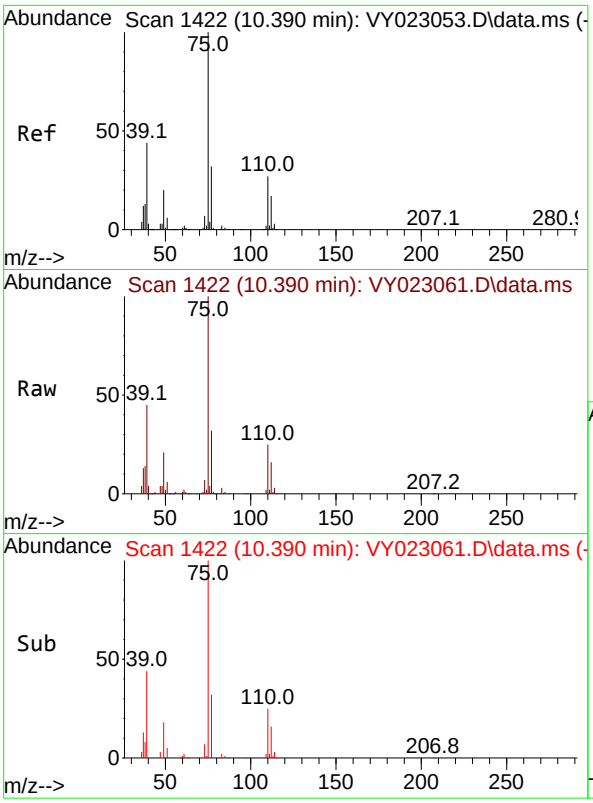



#52
Toluene
Concen: 20.769 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 92 Resp: 280495

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 170.9 | 136.4 | 204.6 |

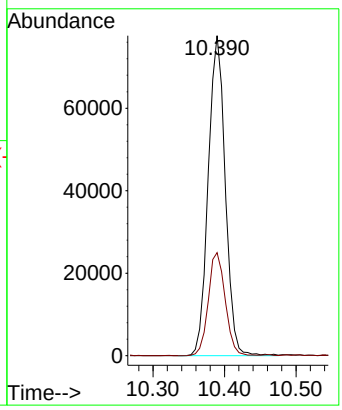





#53
t-1,3-Dichloropropene
Concen: 19.584 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 75 Resp: 12814

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.2 | 25.7 | 38.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations**
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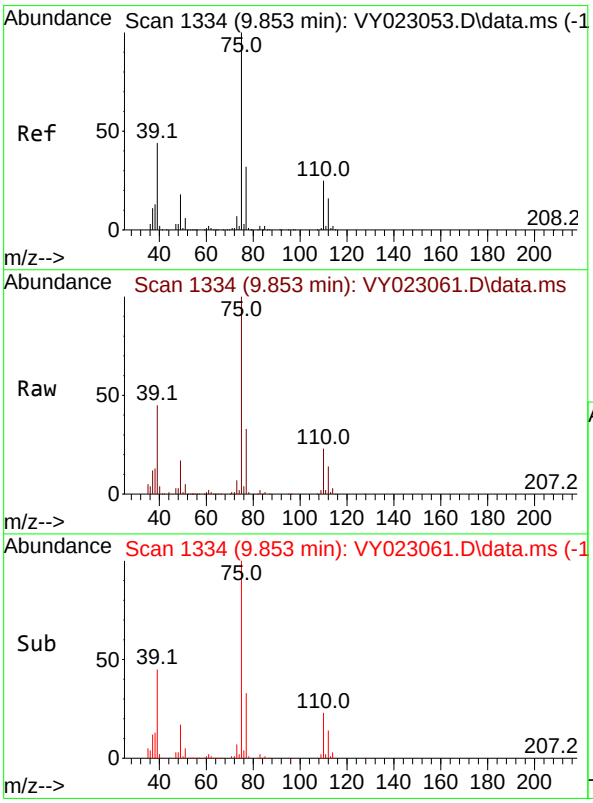
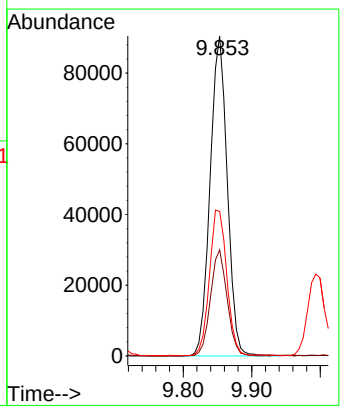
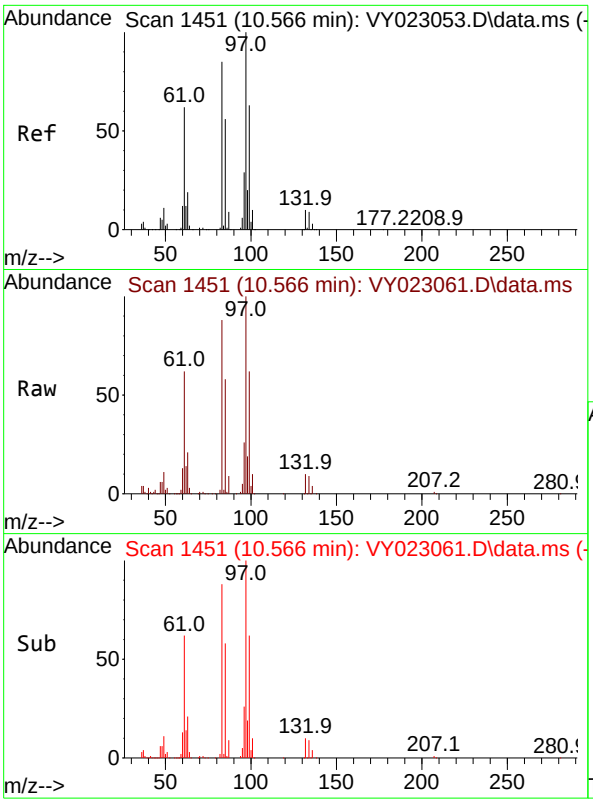



#54
cis-1,3-Dichloropropene
Concen: 20.305 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 75 Resp: 157108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 33.2 | 25.4 | 38.0 |
| 39 | 45.1 | 35.6 | 53.4 |

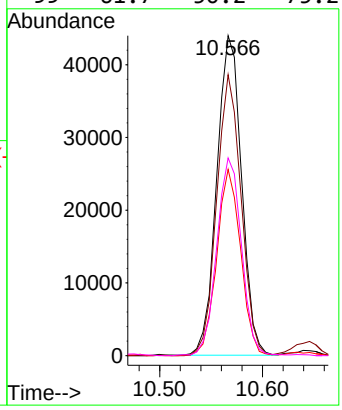





#55
1,1,2-Trichloroethane
Concen: 19.554 ug/l
RT: 10.566 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 97 Resp: 7347

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 87.9 | 67.7 | 101.5 |
| 85 | 58.3 | 44.5 | 66.7 |
| 99 | 61.7 | 50.2 | 75.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations**
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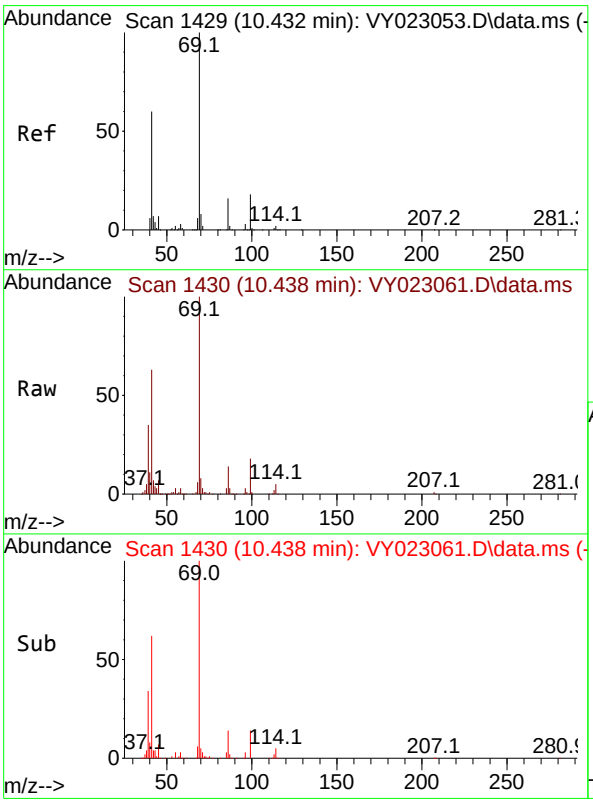
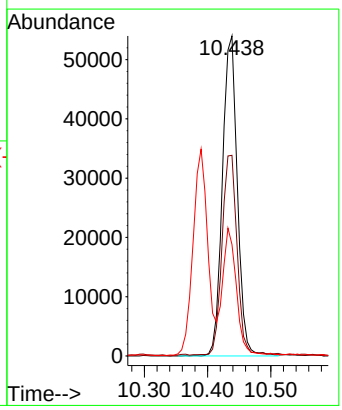
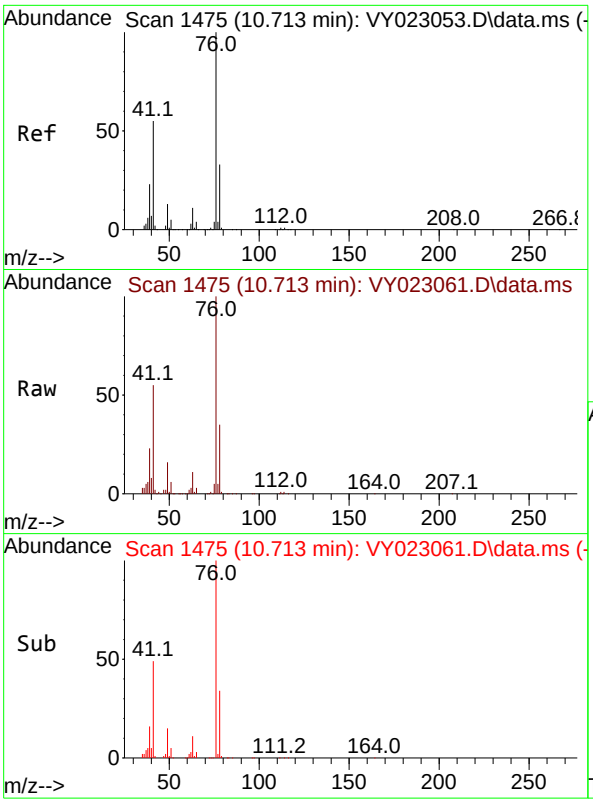



#56
Ethyl methacrylate
Concen: 18.338 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 69 Resp: 88174

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 62.4 | 48.6 | 72.8 |
| 39 | 35.5 | 27.0 | 40.4 |

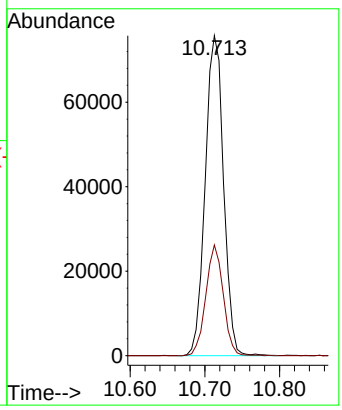





#57
1,3-Dichloropropane
Concen: 20.247 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 76 Resp: 12902

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.9 | 26.0 | 39.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations**
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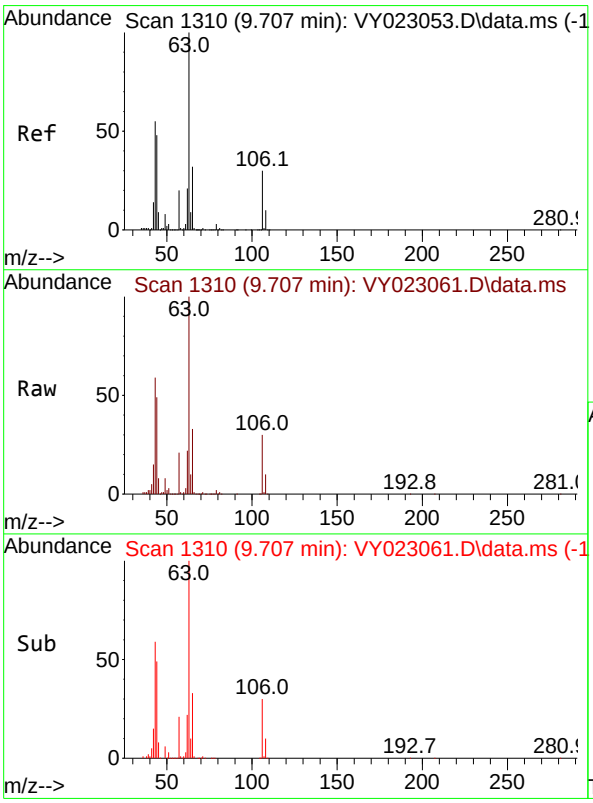
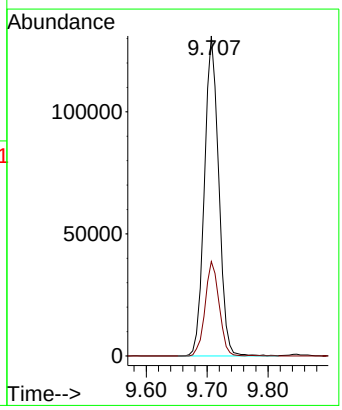
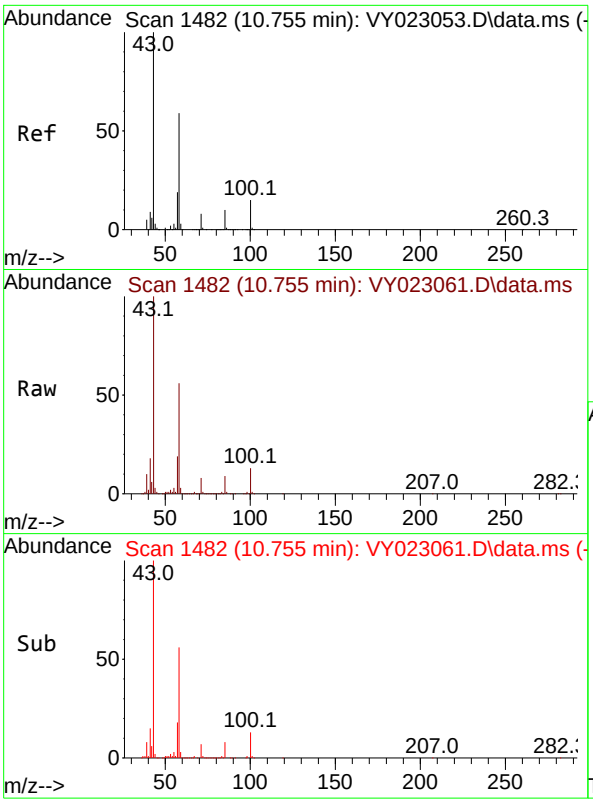



#58
2-Chloroethyl Vinyl ether
Concen: 94.383 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 63 Resp: 214069

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 28.9 | 23.2 | 34.8 |






#59
2-Hexanone
Concen: 92.987 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

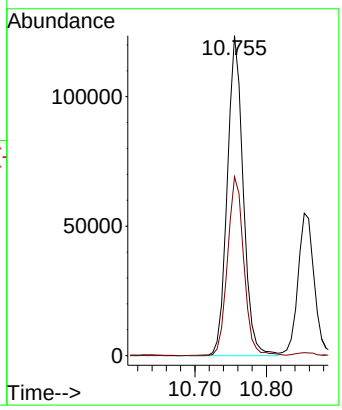
Tgt Ion: 43 Resp: 19131

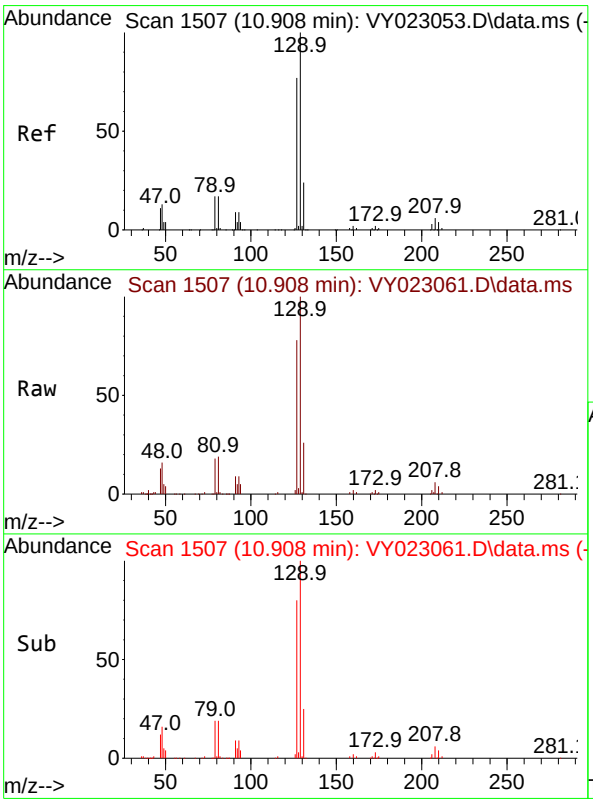
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 57.0 | 29.5 | 88.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

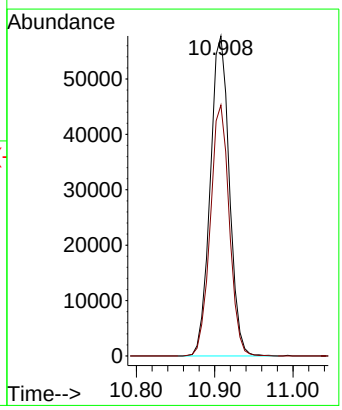


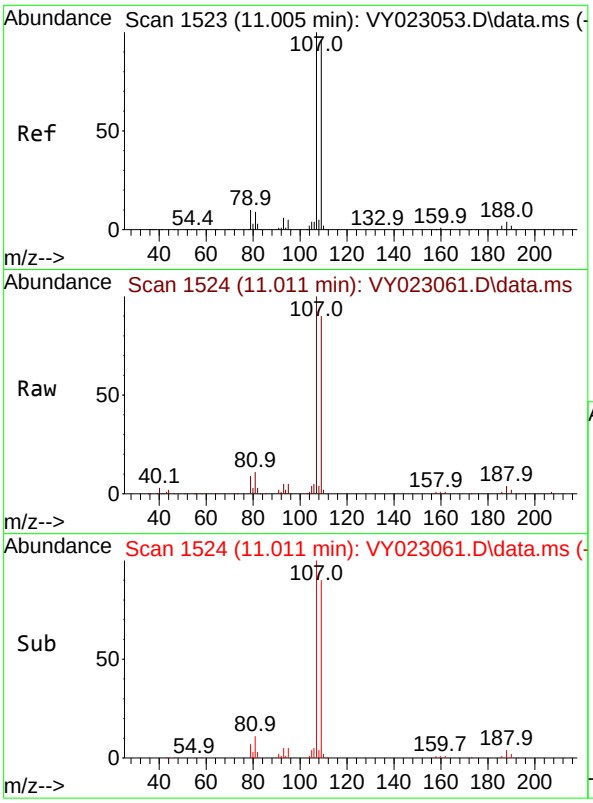




#60
Dibromochloromethane
Concen: 19.755 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:129 Resp: 97950

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.8 | 38.5 | 115.5 |

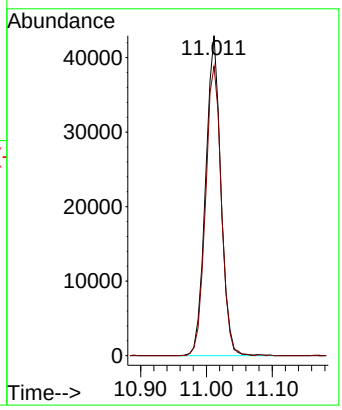





#61
1,2-Dibromoethane
Concen: 19.632 ug/l
RT: 11.011 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:107 Resp: 6933

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.5 | 75.6 | 113.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations**
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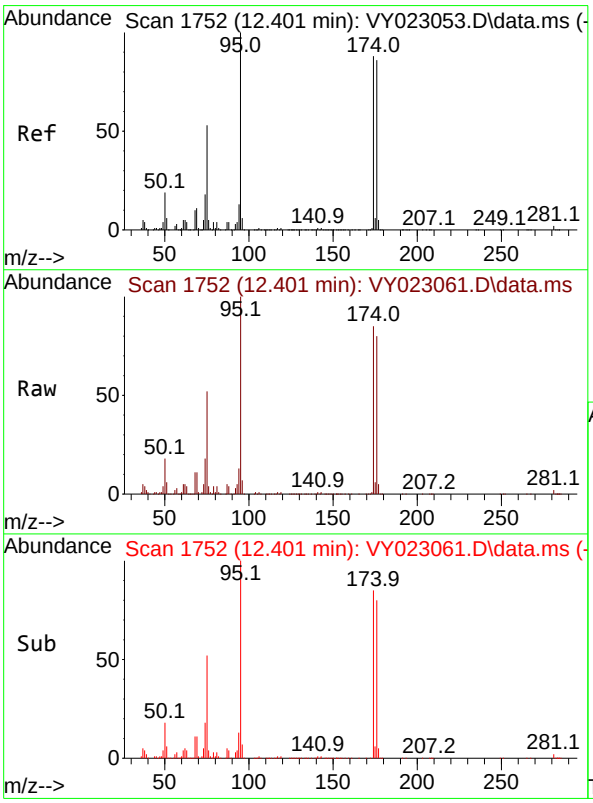
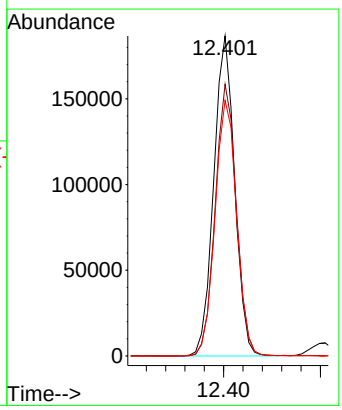
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

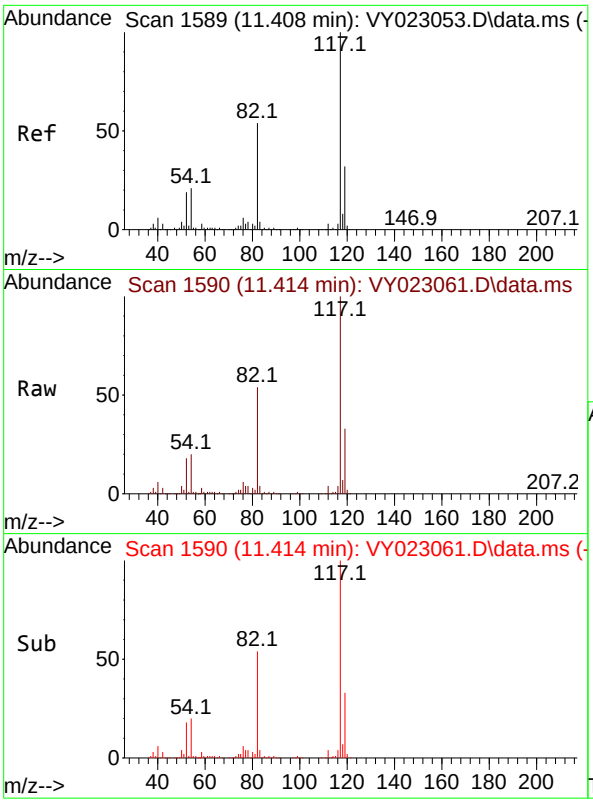



#62
4-Bromofluorobenzene
Concen: 47.943 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 95 Resp: 279619

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 85.7 | 0.0 | 171.6 |
| 176 | 82.3 | 0.0 | 167.6 |

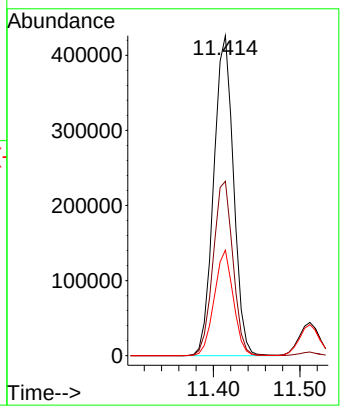





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:117 Resp: 67592

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.5 | 43.4 | 65.0 |
| 119 | 33.0 | 25.6 | 38.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations**
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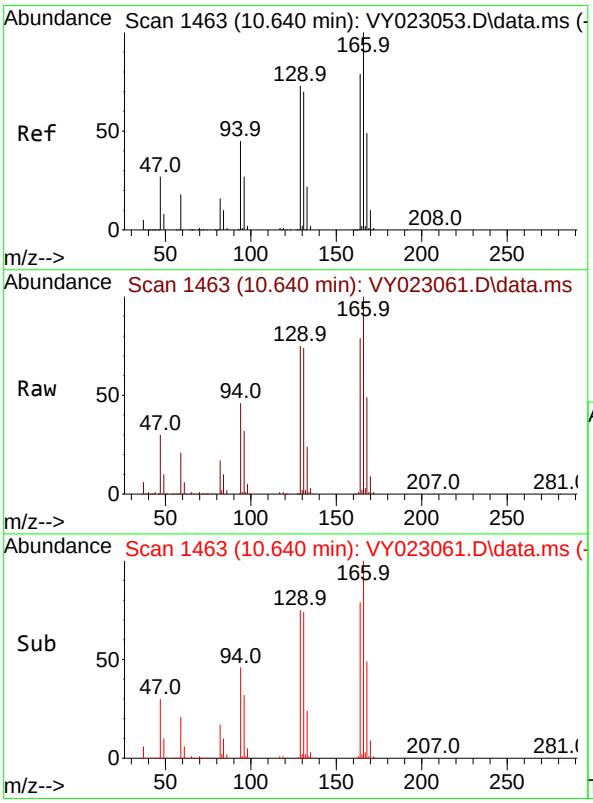
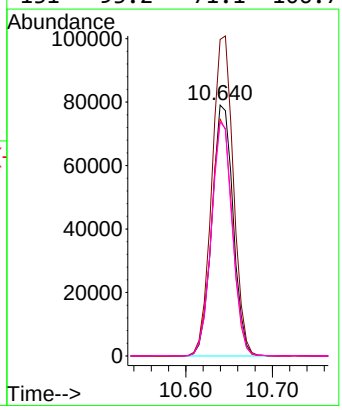
Supervised By :Semsettin Yesilyurt 08/19/2025

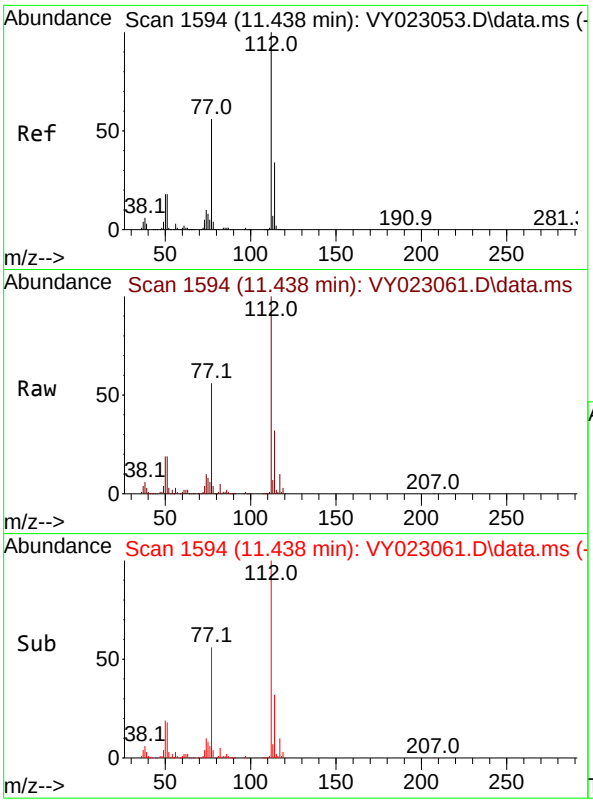



#64
Tetrachloroethene
Concen: 22.223 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:164 Resp: 134131

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 126.1 | 101.1 | 151.7 |
| 129 | 94.4 | 74.0 | 111.0 |
| 131 | 93.2 | 71.1 | 106.7 |

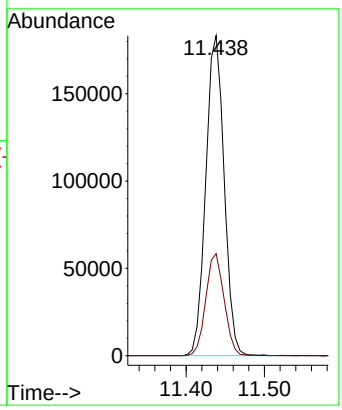





#65
Chlorobenzene
Concen: 20.431 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:112 Resp: 29787

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.9 | 27.0 | 40.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations**
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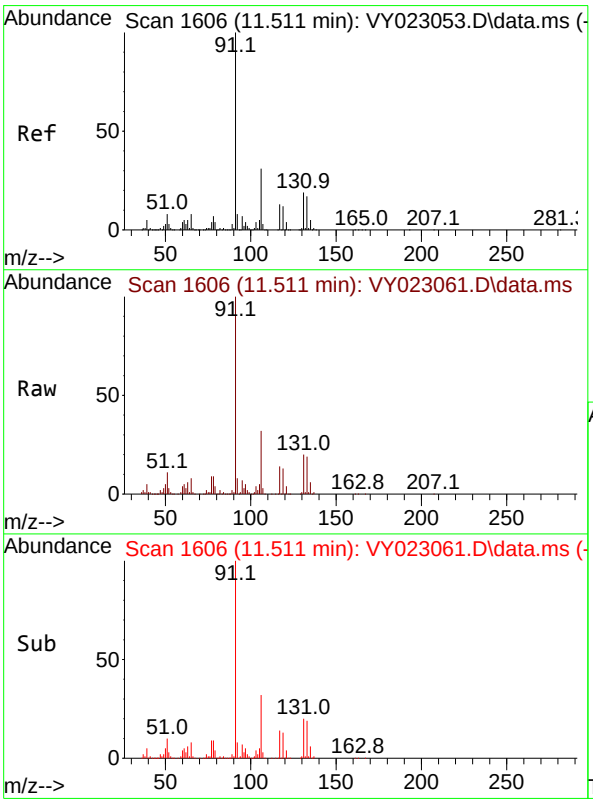
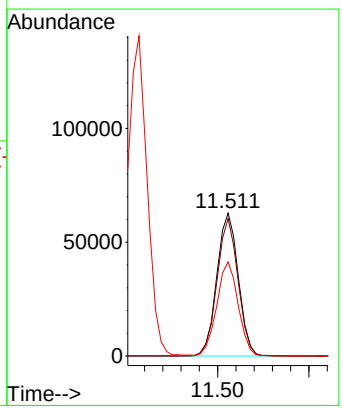
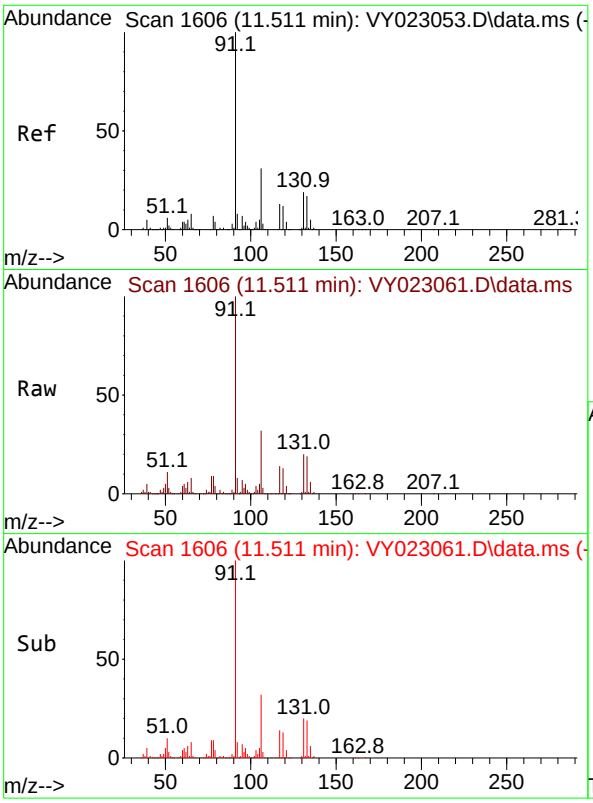



#66
1,1,1,2-Tetrachloroethane
Concen: 20.592 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:131 Resp: 101895

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.6 | 46.9 | 140.6 |
| 119 | 65.9 | 33.2 | 99.6 |

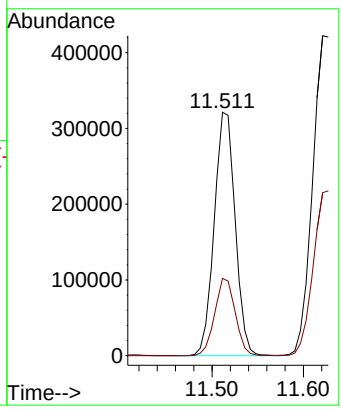





#67
Ethyl Benzene
Concen: 20.430 ug/l
RT: 11.511 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 91 Resp: 51258

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.8 | 25.0 | 37.4 |




**Instrument :**
MSVOA_Y
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VY0813SBS01

**Manual Integrations**
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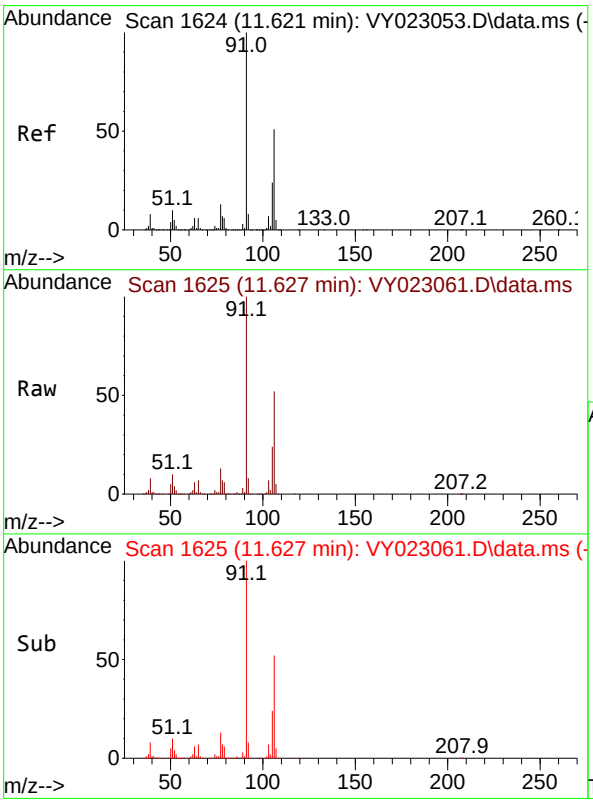
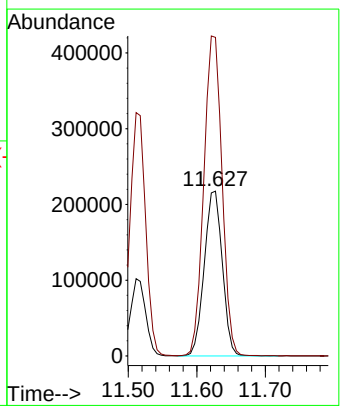
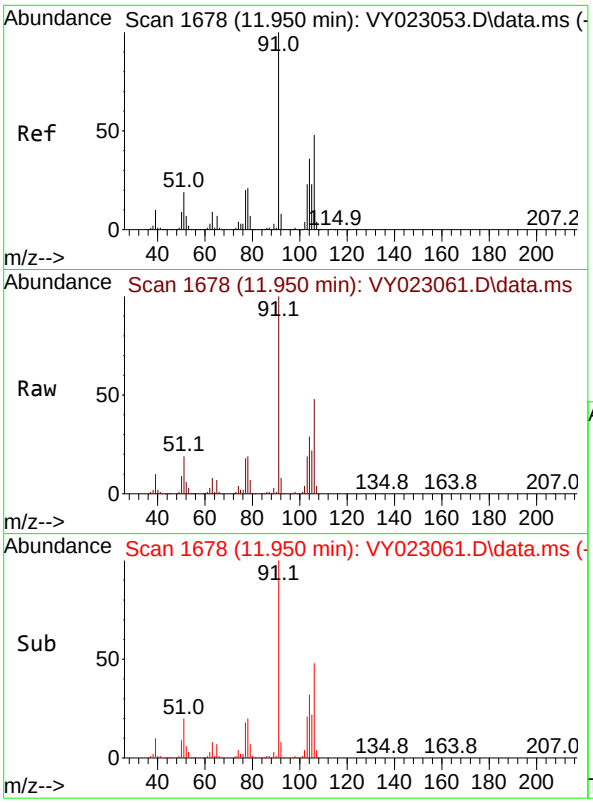



#68
m/p-Xylenes
Concen: 40.752 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:106 Resp: 399348

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 195.8 | 158.6 | 238.0 |

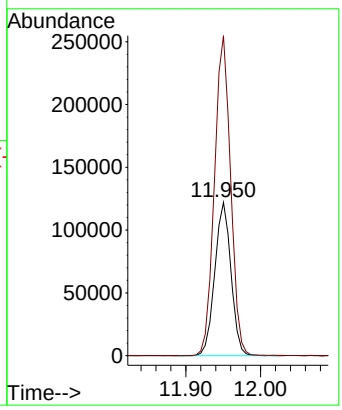





#69
o-Xylene
Concen: 20.065 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:106 Resp: 18415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 209.2 | 103.2 | 309.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations**
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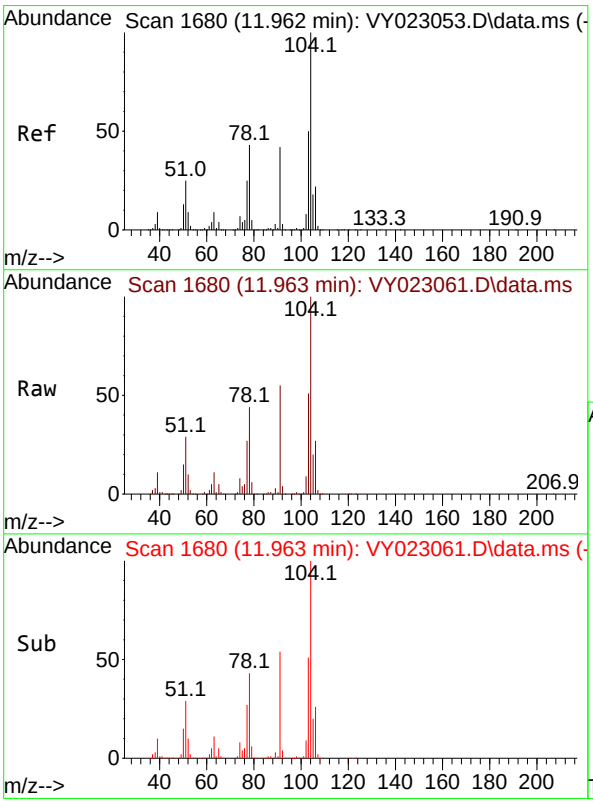
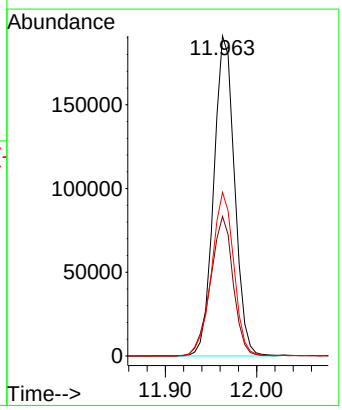
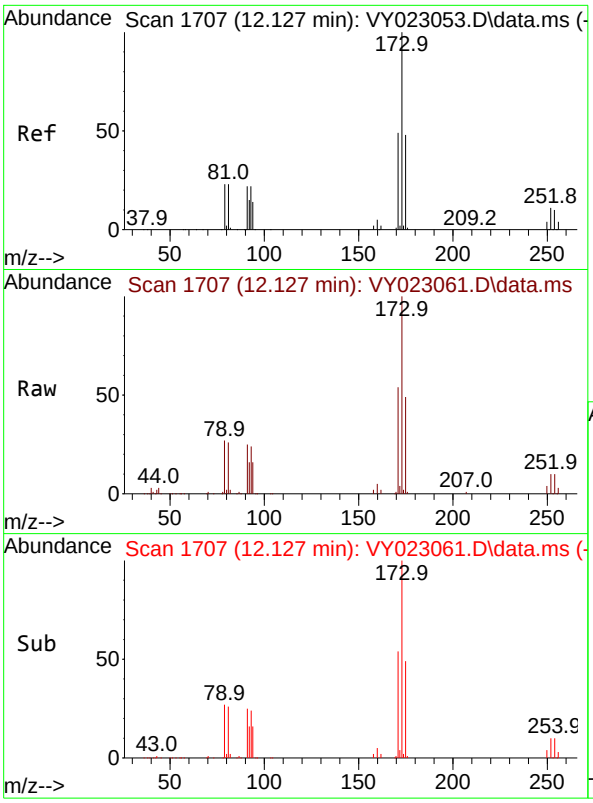



#70
Styrene
Concen: 20.179 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:104 Resp: 302870

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 47.3 | 38.5 | 57.7 |
| 103 | 54.5 | 43.7 | 65.5 |

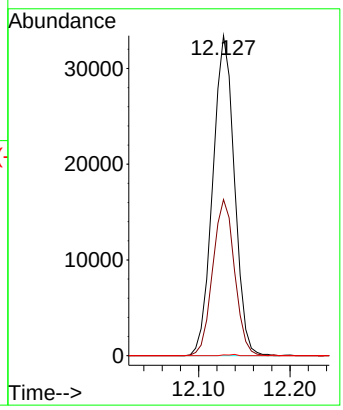





#71
Bromoform
Concen: 19.039 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:173 Resp: 5506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.1 | 23.9 | 71.7 |
| 254 | 0.2 | 0.1 | 0.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations**
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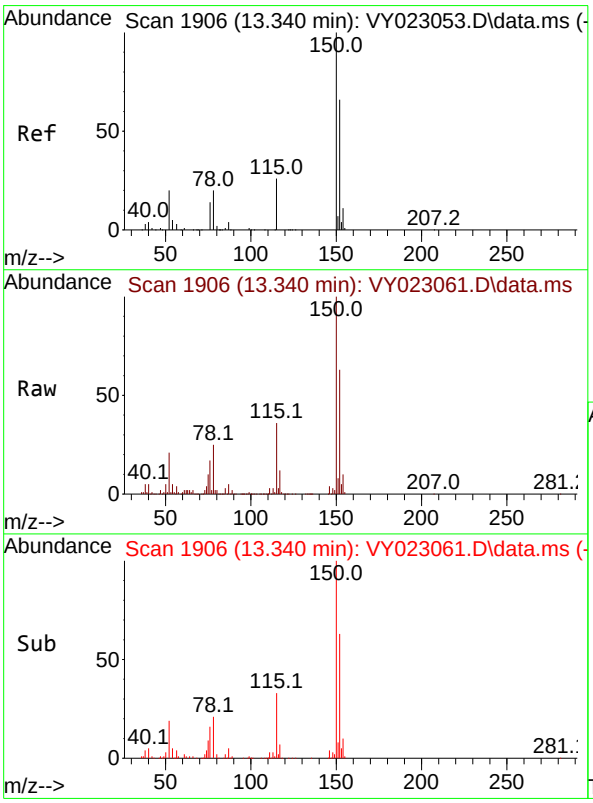
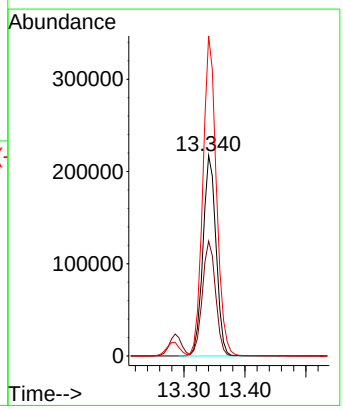
Supervised By :Semsettin Yesilyurt 08/19/2025

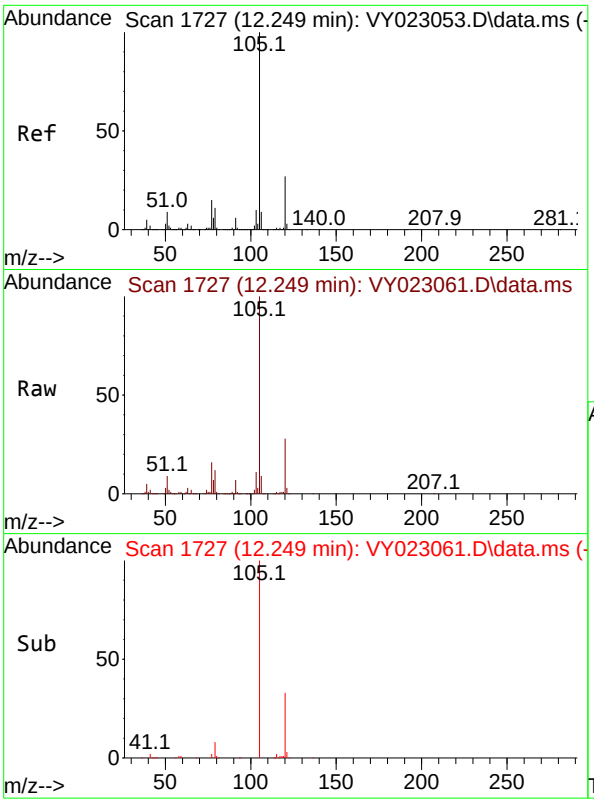



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:152 Resp: 325106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.7 | 28.2 | 84.6 |
| 150 | 164.8 | 0.0 | 348.0 |

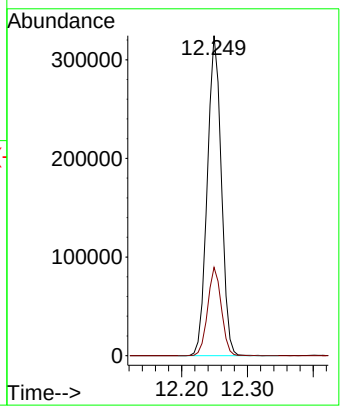





#73
Isopropylbenzene
Concen: 20.975 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:105 Resp: 48127

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.9 | 13.4 | 40.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations**
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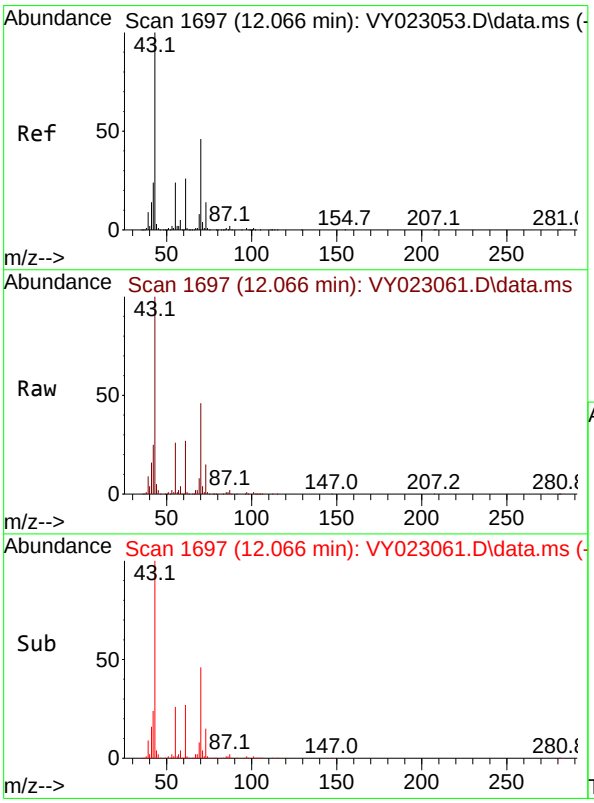
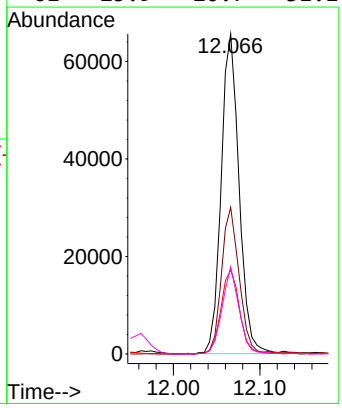
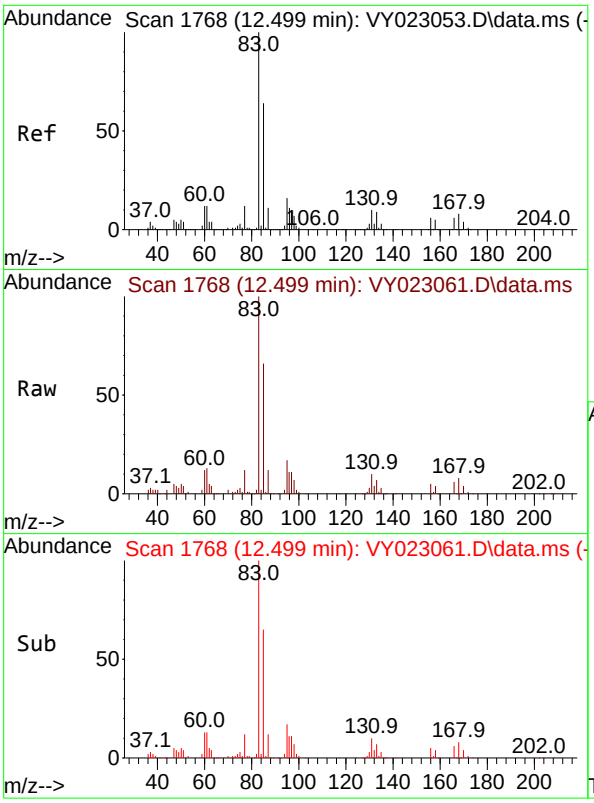



#74
N-amyl acetate
Concen: 19.346 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 43 Resp: 94137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 45.7 | 37.5 | 56.3 |
| 55 | 27.5 | 20.7 | 31.1 |
| 61 | 25.9 | 20.7 | 31.1 |






#75
1,1,2,2-Tetrachloroethane
Concen: 18.344 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 83 Resp: 7187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 11.0 | 5.1 | 15.3 |
| 85 | 64.7 | 31.8 | 95.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations**
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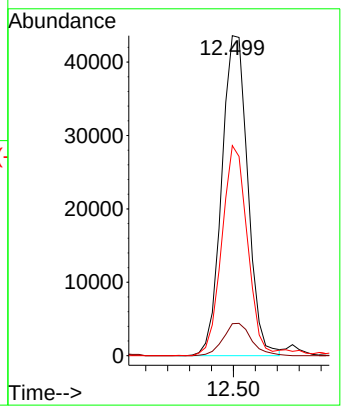
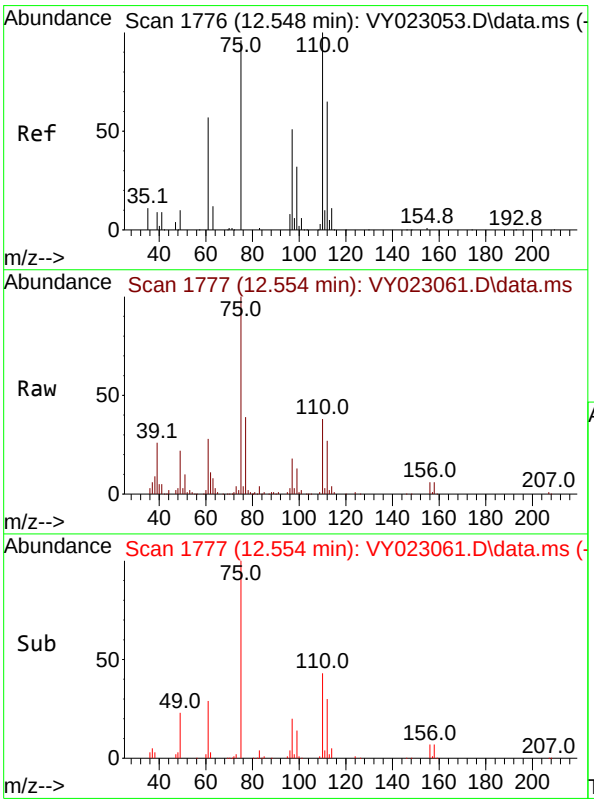
Supervised By :Semsettin Yesilyurt 08/19/2025

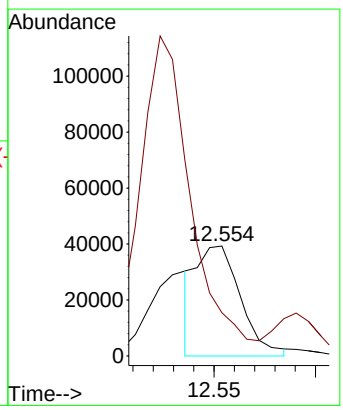


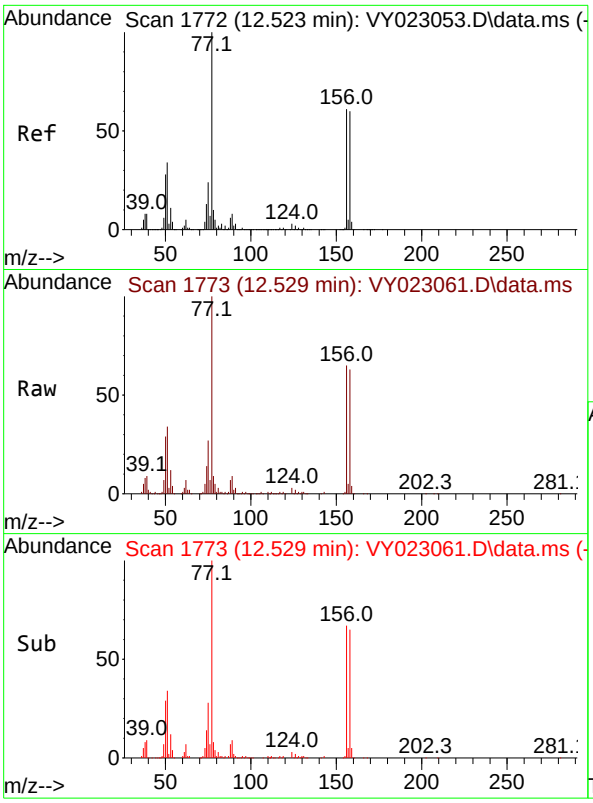




#76
1,2,3-Trichloropropane
Concen: 18.993 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 75 Resp: 59594

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |

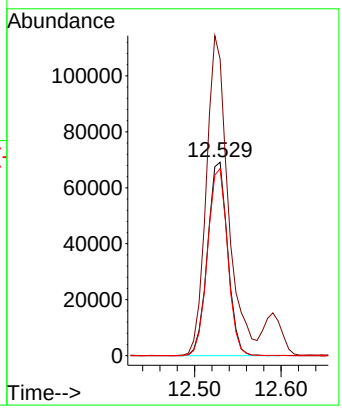





#77
Bromobenzene
Concen: 20.369 ug/l
RT: 12.529 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

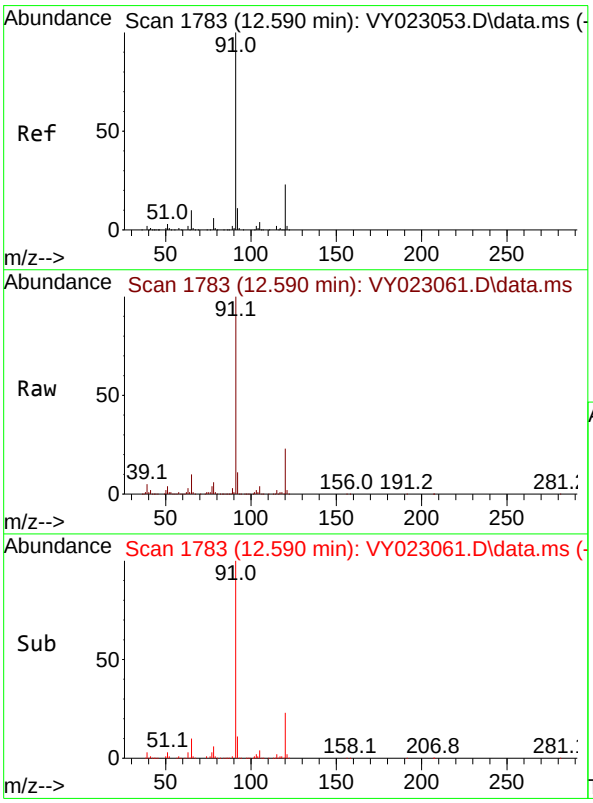
Tgt Ion:156 Resp: 11150

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 180.3 | 88.1 | 264.4 |
| 158 | 96.4 | 48.0 | 144.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

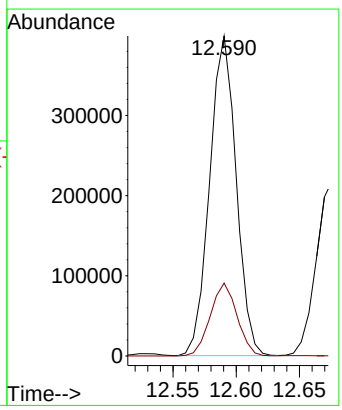
**Manual Integrations**
**APPROVED**
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

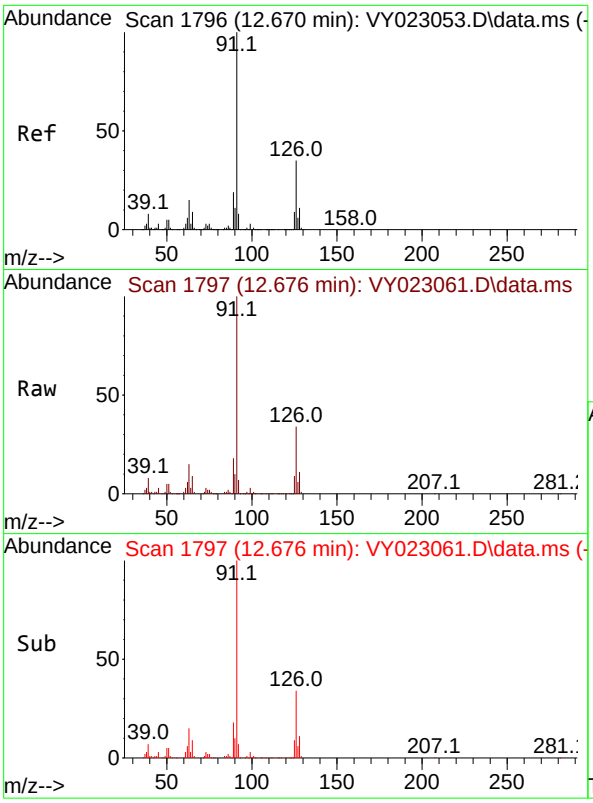



#78
n-propylbenzene
Concen: 21.291 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 91 Resp: 581635

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.9 | 11.5 | 34.5 |

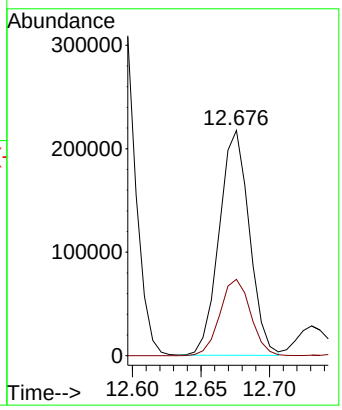





#79
2-Chlorotoluene
Concen: 21.244 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 91 Resp: 33251

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.6 | 17.4 | 52.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations**
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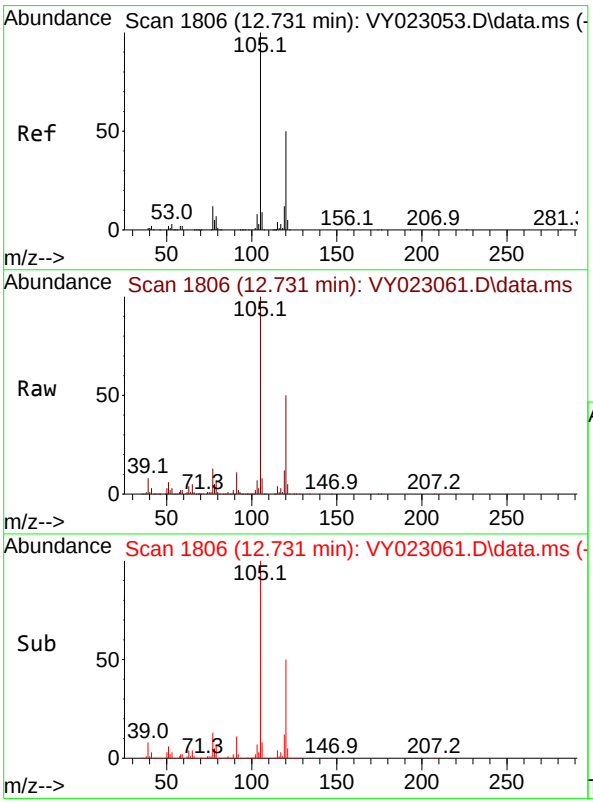
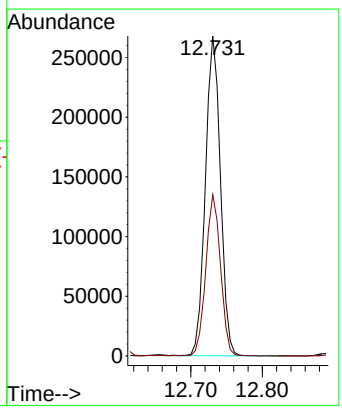
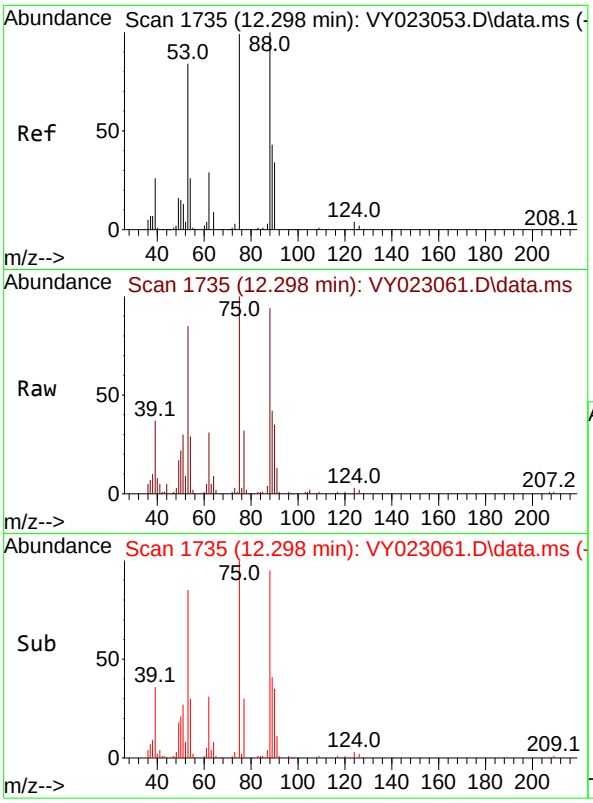



#80
1,3,5-Trimethylbenzene
Concen: 21.055 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:105 Resp: 390462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.4 | 24.8 | 74.4 |






#81
trans-1,4-Dichloro-2-butene
Concen: 19.514 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 75 Resp: 2529

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 88.0 | 70.8 | 106.2 |
| 89 | 43.7 | 38.1 | 57.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

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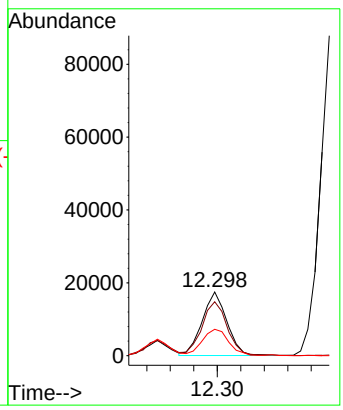
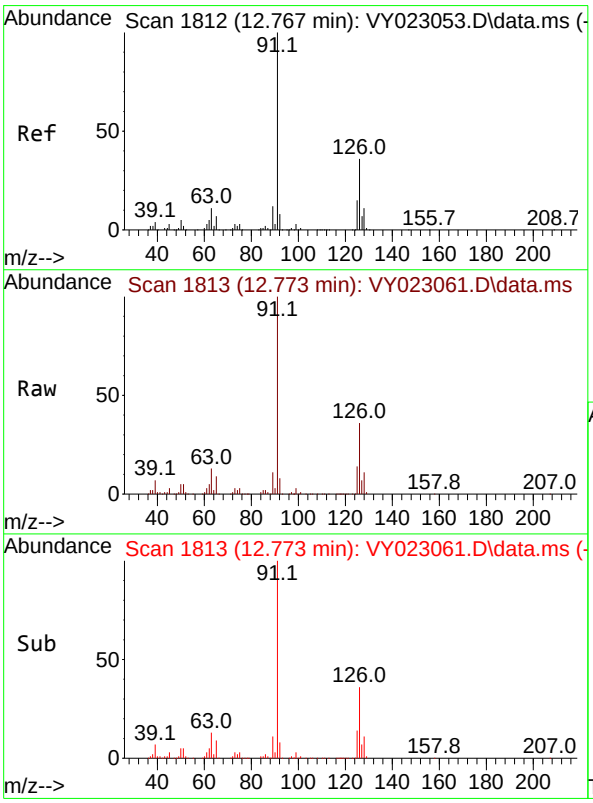
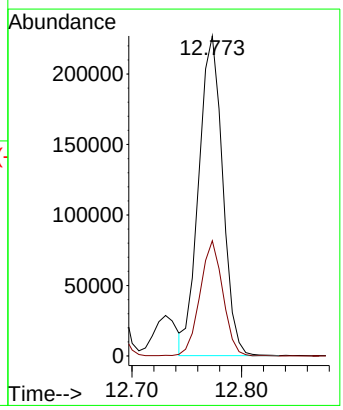


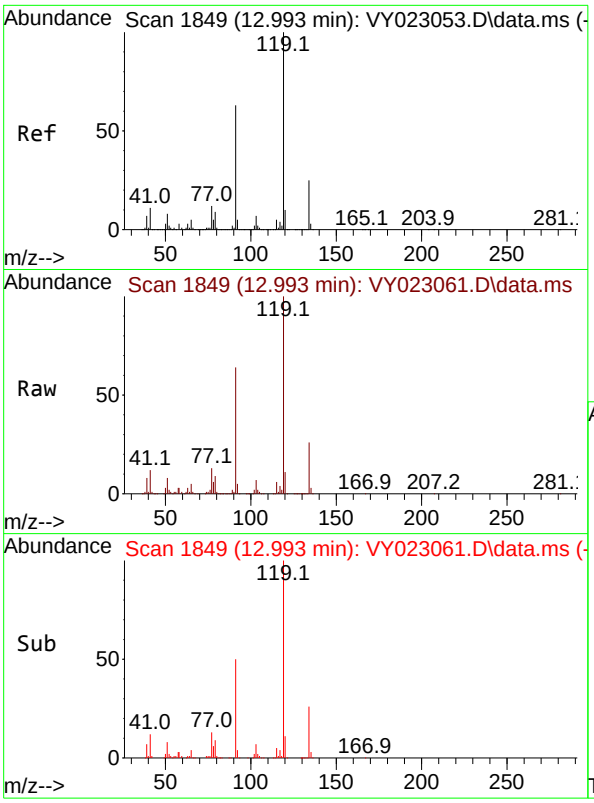




#82
4-Chlorotoluene
Concen: 21.176 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 91 Resp: 343845

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.5 | 17.3 | 52.0 |

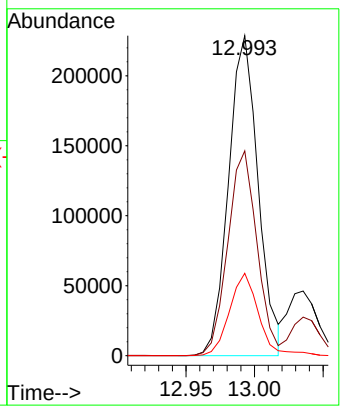





#83
tert-Butylbenzene
Concen: 20.545 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:119 Resp: 34410

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 63.0 | 31.6 | 94.8 |
| 134 | 25.4 | 12.9 | 38.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations**
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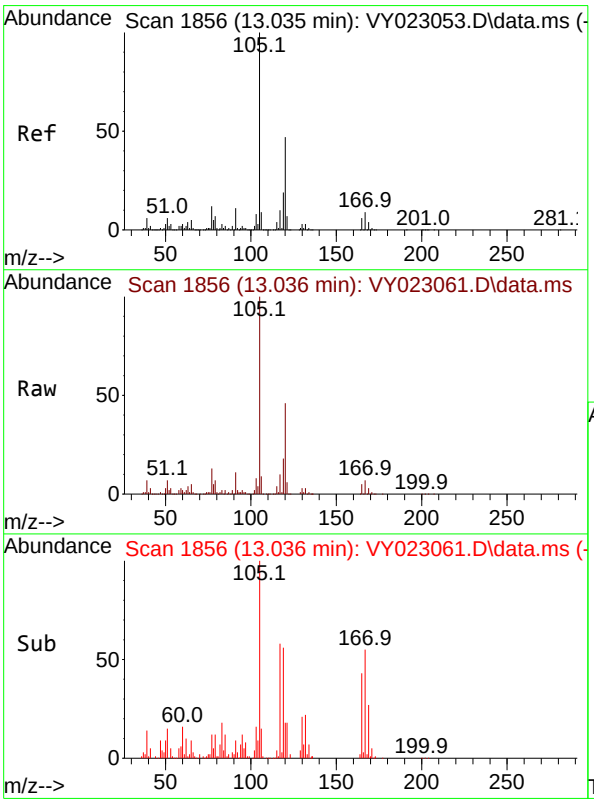
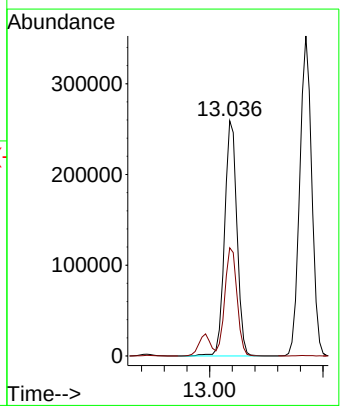
Supervised By :Semsettin Yesilyurt 08/19/2025

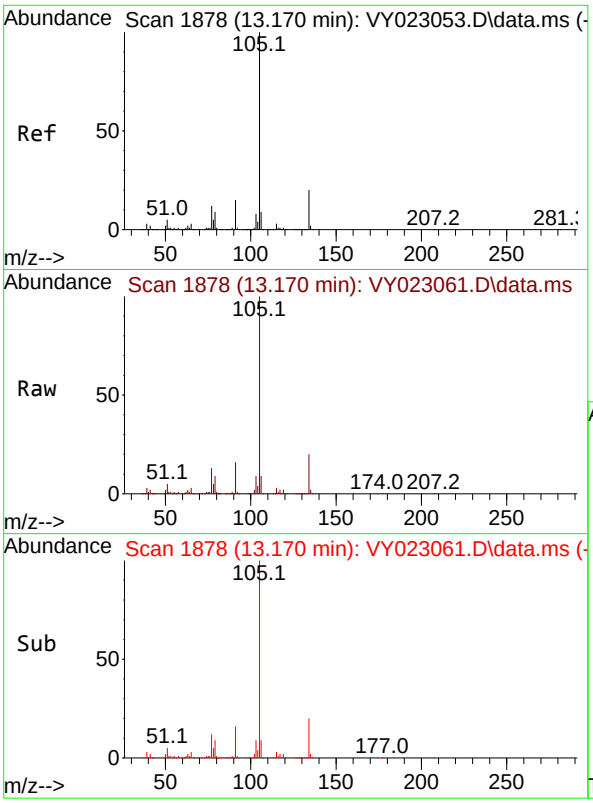



#84
1,2,4-Trimethylbenzene
Concen: 21.128 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:105 Resp: 390034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.5 | 23.0 | 69.0 |

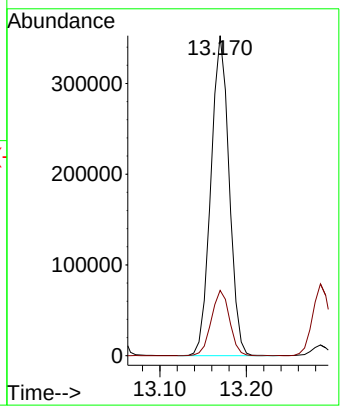





#85
sec-Butylbenzene
Concen: 20.962 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:105 Resp: 51573

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.4 | 10.2 | 30.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

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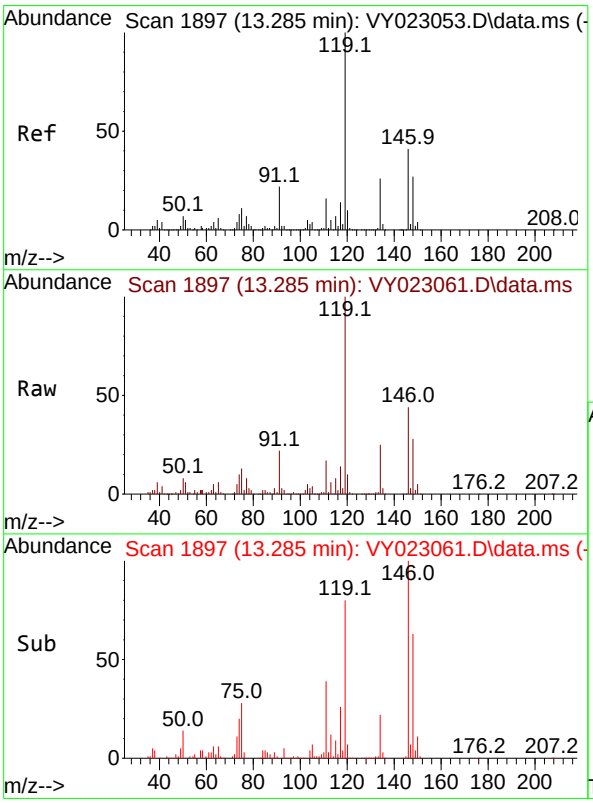
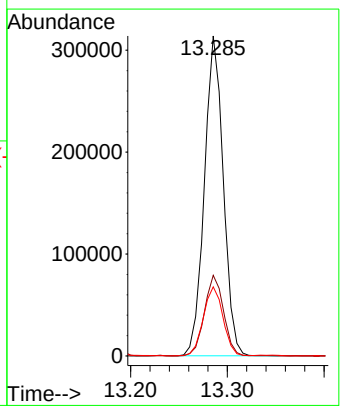
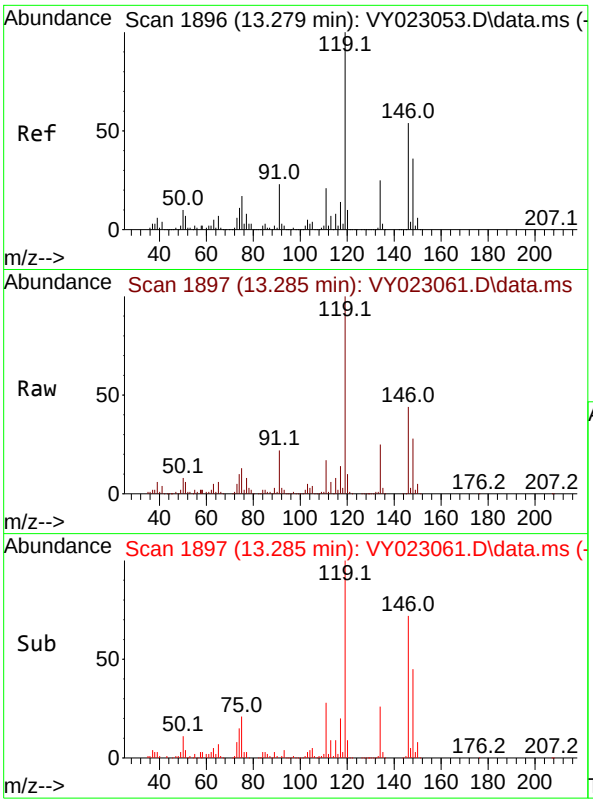



#86
p-Isopropyltoluene
Concen: 20.904 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:119 Resp: 426905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.5 | 13.2 | 39.6 |
| 91 | 22.3 | 11.3 | 33.8 |

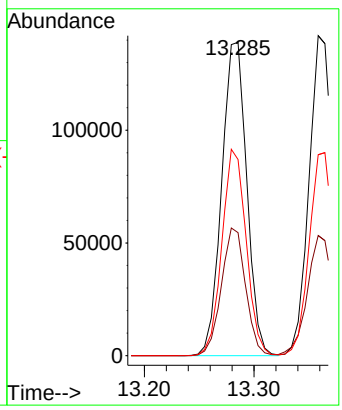





#87
1,3-Dichlorobenzene
Concen: 20.420 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:146 Resp: 22043

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.5 | 19.6 | 58.7 |
| 148 | 63.9 | 32.5 | 97.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations APPROVED**

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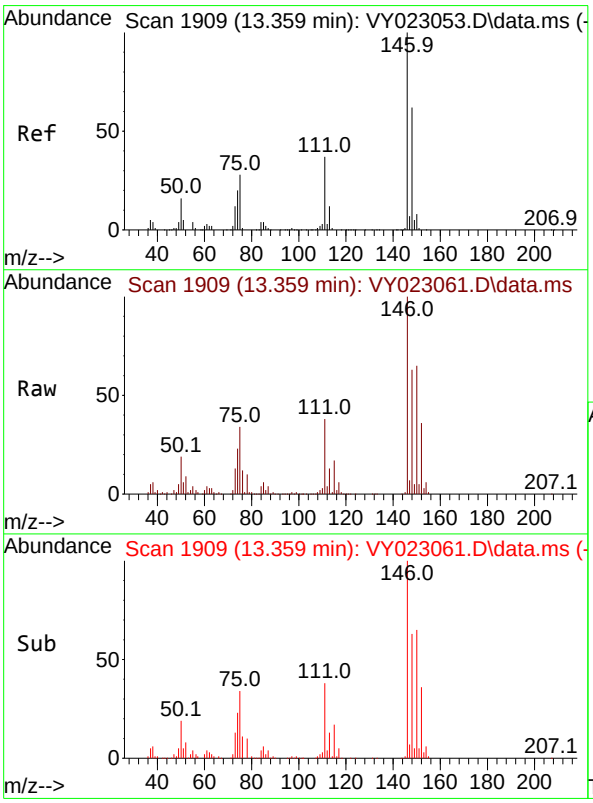
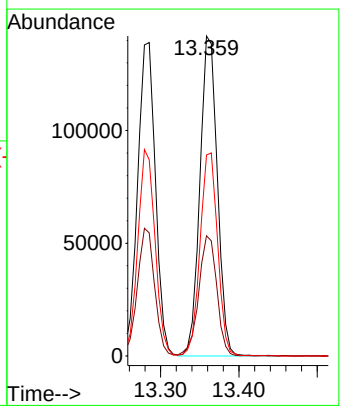
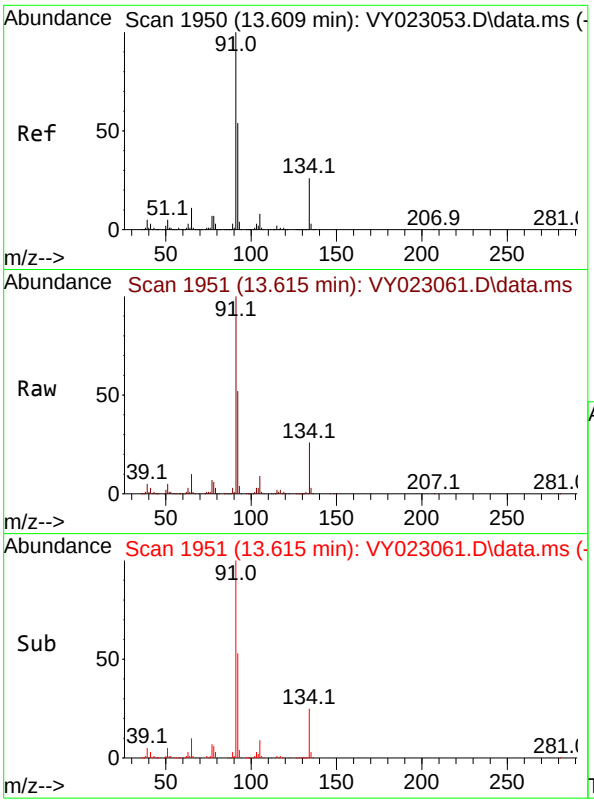



#88
1,4-Dichlorobenzene
Concen: 20.520 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:146 Resp: 219736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.9 | 19.1 | 57.1 |
| 148 | 63.8 | 31.6 | 94.7 |

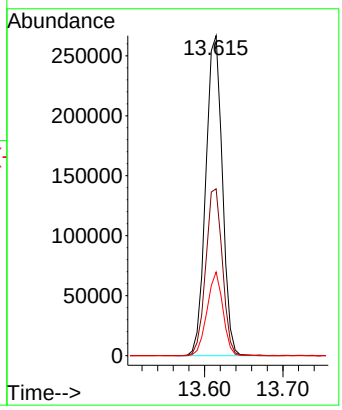





#89
n-Butylbenzene
Concen: 20.823 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 91 Resp: 39057

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.4 | 26.9 | 80.7 |
| 134 | 25.0 | 13.2 | 39.5 |

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MSVOA_Y
**ClientSampleId :**
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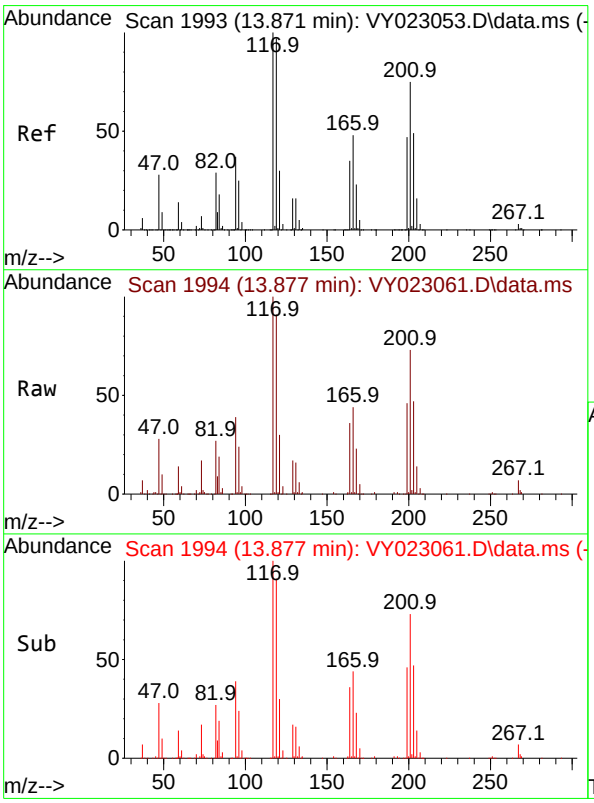
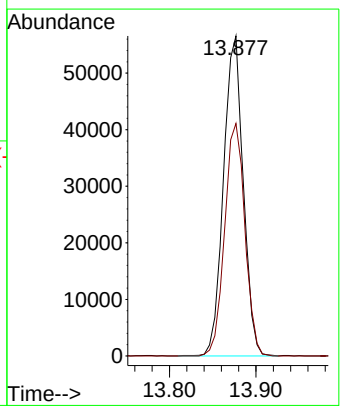
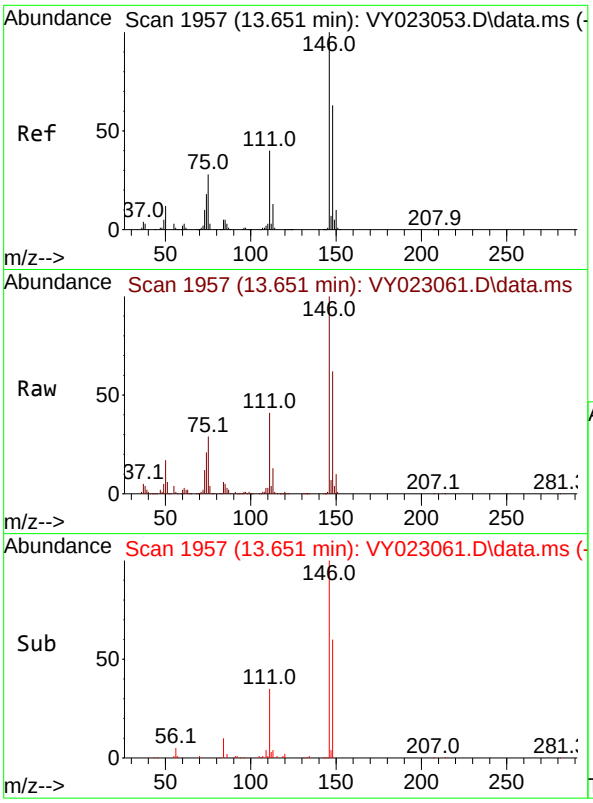



#90
Hexachloroethane
Concen: 21.398 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:117 Resp: 89456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 74.6 | 38.4 | 115.1 |

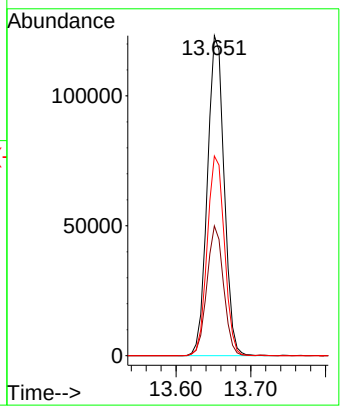





#91
1,2-Dichlorobenzene
Concen: 20.262 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:146 Resp: 19182

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.3 | 20.3 | 60.8 |
| 148 | 64.0 | 32.2 | 96.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

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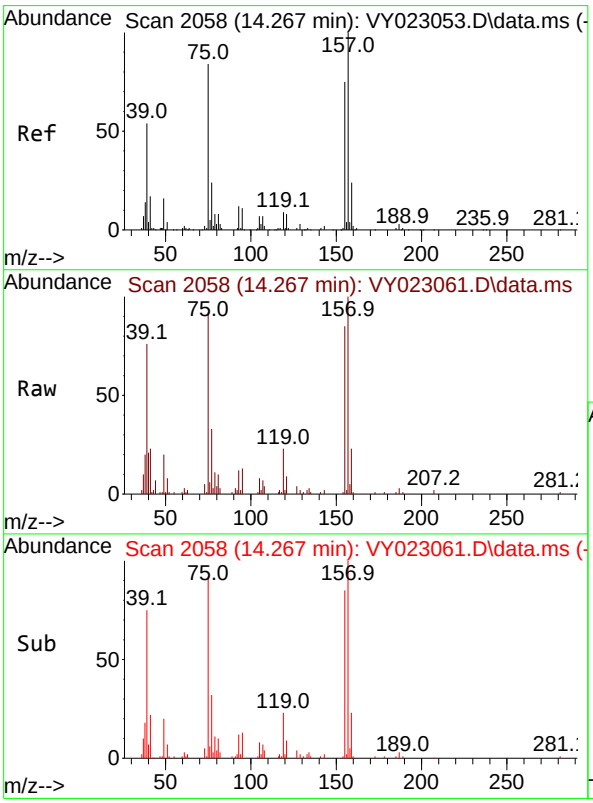
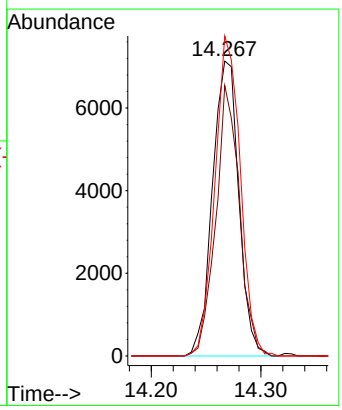
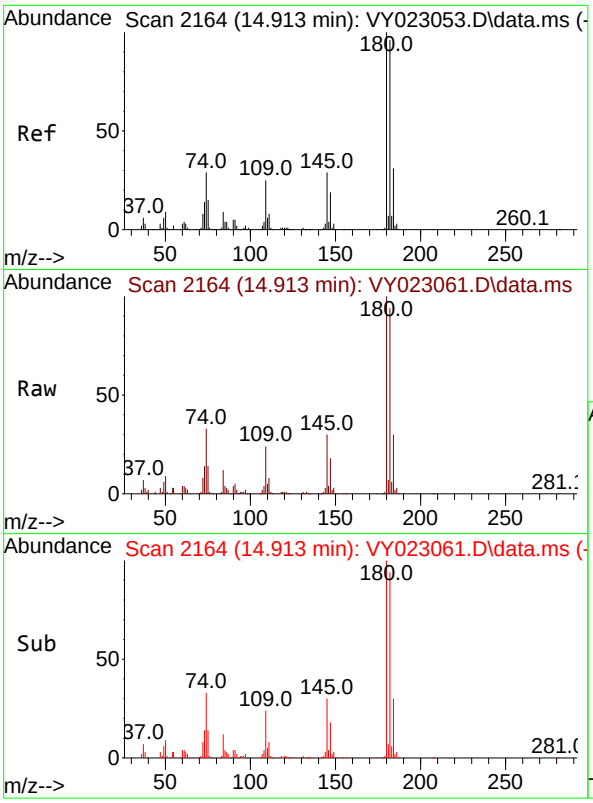



#92
1,2-Dibromo-3-Chloropropane
Concen: 19.477 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 75 Resp: 11881

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 82.7 | 43.9 | 131.6 |
| 157 | 105.1 | 57.2 | 171.6 |

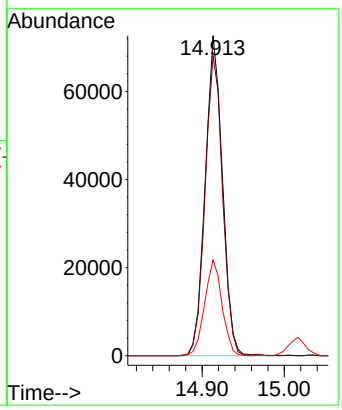





#93
1,2,4-Trichlorobenzene
Concen: 18.915 ug/l
RT: 14.913 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:180 Resp: 10590

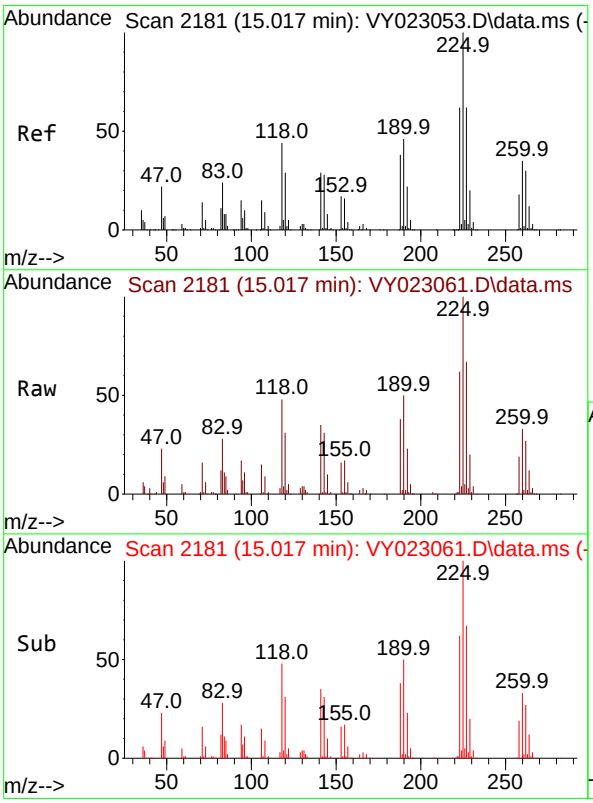
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.1 | 46.8 | 140.4 |
| 145 | 30.1 | 14.4 | 43.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations**
**APPROVED**

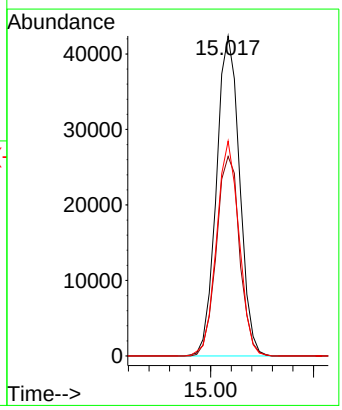
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025

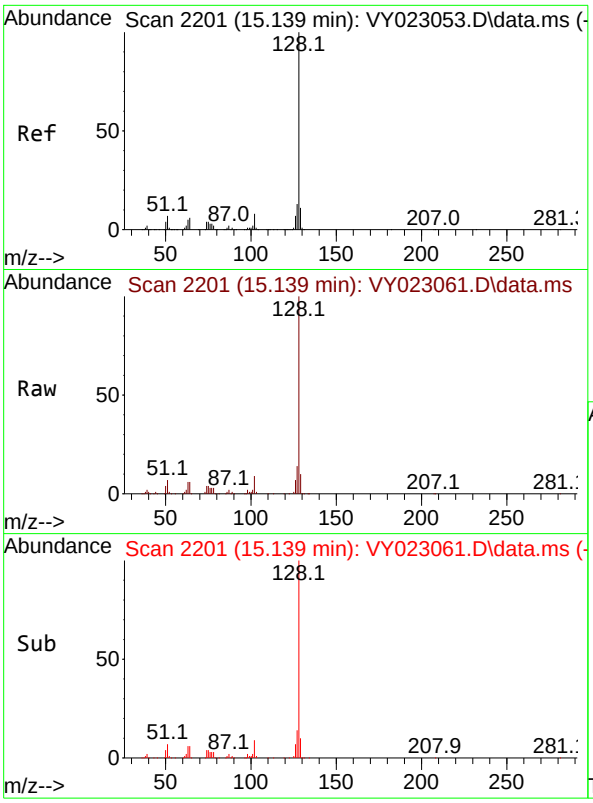



#94
Hexachlorobutadiene
Concen: 20.089 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:225 Resp: 66091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.7 | 31.3 | 93.8 |
| 227 | 65.3 | 31.5 | 94.5 |

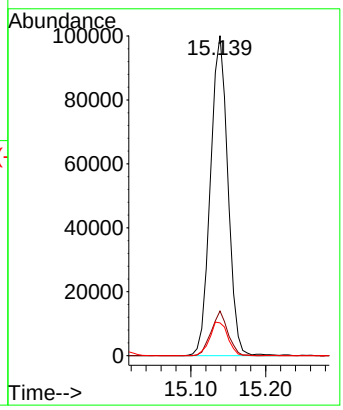





#95
Naphthalene
Concen: 16.980 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:128 Resp: 16210

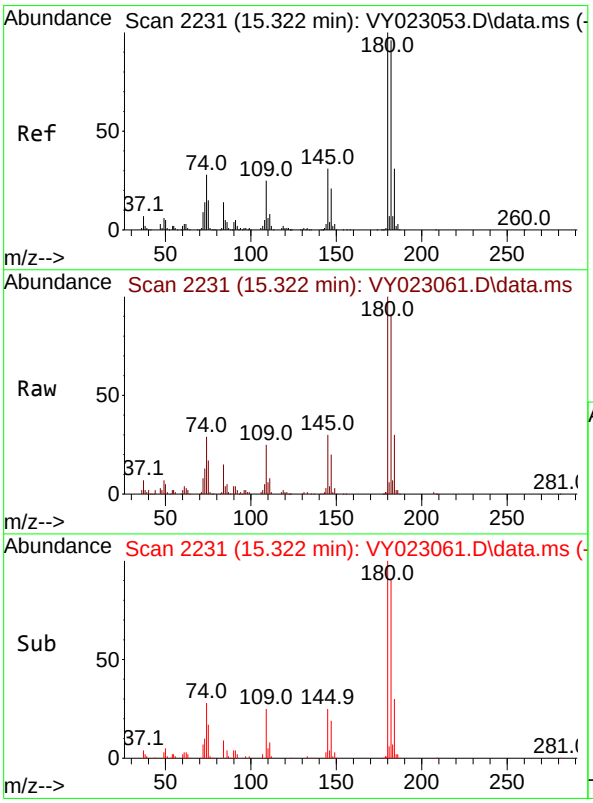
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.3 | 10.4 | 15.6 |
| 129 | 11.0 | 9.0 | 13.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

**Manual Integrations**
**APPROVED**

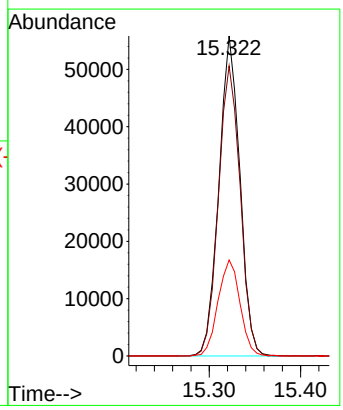
Reviewed By :Mahesh Dadoda 08/18/2025
Supervised By :Semsettin Yesilyurt 08/19/2025




#96
1,2,3-Trichlorobenzene
Concen: 18.463 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:180 Resp: 89070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.8 | 47.9 | 143.7 |
| 145 | 31.4 | 15.9 | 47.7 |



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | |
| Project: | USACE018-44 DOD | Date Received: | |
| Client Sample ID: | VY0814SBS01 | SDG No.: | Q2819 |
| Lab Sample ID: | VY0814SBS01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023086.D | 1 | 08/14/25 11:22 | VY081425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 20.0 | | 1.10 | 4.00 | 5.00 | ug/Kg |
| 74-87-3 | Chloromethane | 23.1 | | 1.10 | 2.50 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 23.1 | | 0.79 | 2.50 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 23.3 | | 1.10 | 4.00 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 23.5 | | 1.30 | 2.50 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 21.8 | | 1.20 | 4.00 | 5.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 20.9 | | 1.10 | 2.50 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 20.0 | | 1.00 | 2.50 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 94.2 | | 4.70 | 20.0 | 25.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 20.6 | | 1.10 | 4.00 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 17.9 | | 0.73 | 2.50 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 17.8 | | 1.50 | 4.00 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 20.4 | | 3.50 | 8.00 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 20.2 | | 0.86 | 2.50 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 20.7 | | 0.80 | 2.50 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 19.4 | | 0.79 | 2.50 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 88.8 | | 6.50 | 20.0 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 20.1 | | 0.97 | 2.50 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 20.1 | | 0.75 | 2.50 | 5.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 20.3 | | 1.20 | 4.00 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 20.6 | | 0.84 | 4.00 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 20.5 | | 0.93 | 2.50 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 18.7 | | 0.91 | 2.50 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 20.3 | | 0.79 | 2.50 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 20.0 | | 0.79 | 2.50 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 20.5 | | 0.81 | 2.50 | 5.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 20.6 | | 0.91 | 2.50 | 5.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 20.0 | | 0.78 | 2.50 | 5.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 83.5 | | 3.60 | 12.5 | 25.0 | ug/Kg |
| 108-88-3 | Toluene | 19.8 | | 0.78 | 2.50 | 5.00 | ug/Kg |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | |
| Project: | USACE018-44 DOD | Date Received: | |
| Client Sample ID: | VY0814SBS01 | SDG No.: | Q2819 |
| Lab Sample ID: | VY0814SBS01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023086.D | 1 | 08/14/25 11:22 | VY081425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 18.5 | | 0.65 | 2.50 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 19.4 | | 0.62 | 2.50 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 18.7 | | 0.92 | 2.50 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 81.9 | | 3.70 | 12.5 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 18.8 | | 0.87 | 2.50 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 18.5 | | 0.88 | 2.50 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 21.5 | | 1.10 | 2.50 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 19.7 | | 0.91 | 2.50 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 19.4 | | 0.67 | 2.50 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 38.9 | | 1.20 | 5.00 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 19.0 | | 0.82 | 2.50 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 19.2 | | 0.71 | 2.50 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 18.2 | | 0.86 | 2.50 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 19.3 | | 0.78 | 2.50 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 17.2 | | 1.20 | 2.50 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 19.5 | | 1.70 | 2.50 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 19.6 | | 1.60 | 2.50 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 19.2 | | 1.50 | 2.50 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 17.0 | | 1.80 | 4.00 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 17.6 | | 3.00 | 4.00 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 17.3 | | 3.20 | 4.00 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50.3 | | 71 - 136 | | 101% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.1 | | 78 - 119 | | 100% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.9 | | 85 - 116 | | 102% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 47.7 | | 79 - 119 | | 95% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 456000 | 7.707 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 735000 | 8.609 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 642000 | 11.414 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 310000 | 13.34 | | | | |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | |
| Project: | USACE018-44 DOD | Date Received: | |
| Client Sample ID: | VY0814SBS01 | SDG No.: | Q2819 |
| Lab Sample ID: | VY0814SBS01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023086.D | 1 | 08/14/25 11:22 | VY081425 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023086.D
Acq On : 14 Aug 2025 11:22
Operator : SY/MD
Sample : VY0814SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 14 14:47:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 455827 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.609 | 114 | 734618 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 641778 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 309825 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 218317 | 50.253 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 100.500% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 220130 | 50.078 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 100.160% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 873299 | 50.855 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 101.720% | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 263190 | 47.657 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 95.320% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.861 | 85 | 74341 | 19.980 | ug/l | 100 |
| 3) Chloromethane | 2.068 | 50 | 139194 | 23.098 | ug/l | 97 |
| 4) Vinyl Chloride | 2.202 | 62 | 172200 | 23.116 | ug/l | 97 |
| 5) Bromomethane | 2.586 | 94 | 129347 | 23.250 | ug/l | 97 |
| 6) Chloroethane | 2.726 | 64 | 116610 | 23.545 | ug/l | 96 |
| 7) Trichlorofluoromethane | 3.049 | 101 | 197599 | 21.815 | ug/l | 99 |
| 8) Diethyl Ether | 3.452 | 74 | 42819 | 17.867 | ug/l | 93 |
| 9) 1,1,2-Trichlorotrifluo... | 3.812 | 101 | 93242 | 20.865 | ug/l | 98 |
| 10) Methyl Iodide | 3.994 | 142 | 103105 | 21.381 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.860 | 59 | 23075 | 77.519 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 3.781 | 96 | 87863 | 20.003 | ug/l | 98 |
| 13) Acrolein | 3.647 | 56 | 34035 | 78.072 | ug/l | 97 |
| 14) Allyl chloride | 4.372 | 41 | 125844 | 19.470 | ug/l | 97 |
| 15) Acrylonitrile | 5.055 | 53 | 87301 | 89.605 | ug/l | 98 |
| 16) Acetone | 3.866 | 43 | 88645 | 94.185 | ug/l | 94 |
| 17) Carbon Disulfide | 4.098 | 76 | 295393 | 20.624 | ug/l | 99 |
| 18) Methyl Acetate | 4.385 | 43 | 49793 | 17.778 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 204114 | 17.932 | ug/l | 99 |
| 20) Methylene Chloride | 4.610 | 84 | 107429 | 20.355 | ug/l | 99 |
| 21) trans-1,2-Dichloroethene | 5.110 | 96 | 99704 | 20.198 | ug/l | 98 |
| 22) Diisopropyl ether | 6.012 | 45 | 279897 | 19.929 | ug/l | 96 |
| 23) Vinyl Acetate | 5.957 | 43 | 703379 | 90.570 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.909 | 63 | 177456 | 20.666 | ug/l | 100 |
| 25) 2-Butanone | 6.890 | 43 | 113667 | 88.799 | ug/l | 95 |
| 26) 2,2-Dichloropropane | 6.878 | 77 | 150616 | 20.328 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 6.884 | 96 | 114706 | 20.100 | ug/l | 99 |
| 28) Bromochloromethane | 7.244 | 49 | 69276 | 20.335 | ug/l | 96 |
| 29) Tetrahydrofuran | 7.262 | 42 | 67731 | 85.363 | ug/l | 95 |
| 30) Chloroform | 7.415 | 83 | 182352 | 20.591 | ug/l | 96 |
| 31) Cyclohexane | 7.695 | 56 | 156917 | 19.392 | ug/l | 97 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 161426 | 20.543 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 7.829 | 75 | 131067 | 20.063 | ug/l | 99 |
| 37) Ethyl Acetate | 6.982 | 43 | 45793 | 16.687 | ug/l | 98 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 142349 | 20.062 | ug/l | 98 |
| 39) Methylcyclohexane | 9.109 | 83 | 160783 | 18.690 | ug/l | 97 |
| 40) Benzene | 8.073 | 78 | 408860 | 20.306 | ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023086.D
Acq On : 14 Aug 2025 11:22
Operator : SY/MD
Sample : VY0814SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 14 14:47:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.213 | 41 | 23134 | 14.607 | ug/l | # | 86 |
| 42) 1,2-Dichloroethane | 8.152 | 62 | 104577 | 19.970 | ug/l | | 98 |
| 43) Isopropyl Acetate | 8.195 | 43 | 95745 | 17.262 | ug/l | | 98 |
| 44) Trichloroethene | 8.859 | 130 | 106605 | 20.488 | ug/l | | 98 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 95447 | 20.603 | ug/l | | 99 |
| 46) Dibromomethane | 9.225 | 93 | 51967 | 19.543 | ug/l | | 97 |
| 47) Bromodichloromethane | 9.420 | 83 | 137131 | 20.042 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.219 | 41 | 45987 | 17.327 | ug/l | | 98 |
| 49) 1,4-Dioxane | 9.225 | 88 | 10785 | 345.913 | ug/l | # | 94 |
| 51) 4-Methyl-2-Pentanone | 9.993 | 43 | 238881 | 83.495 | ug/l | | 97 |
| 52) Toluene | 10.164 | 92 | 252944 | 19.780 | ug/l | | 97 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 114364 | 18.458 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 141980 | 19.379 | ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 10.566 | 97 | 66658 | 18.734 | ug/l | | 97 |
| 56) Ethyl methacrylate | 10.438 | 69 | 75122 | 16.500 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 114859 | 19.034 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 187201 | 87.167 | ug/l | | 100 |
| 59) 2-Hexanone | 10.755 | 43 | 159619 | 81.934 | ug/l | | 98 |
| 60) Dibromochloromethane | 10.908 | 129 | 88354 | 18.819 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 11.011 | 107 | 61746 | 18.463 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.646 | 164 | 123429 | 21.538 | ug/l | | 98 |
| 65) Chlorobenzene | 11.438 | 112 | 272937 | 19.716 | ug/l | | 95 |
| 66) 1,1,1,2-Tetrachloroethane | 11.511 | 131 | 93115 | 19.819 | ug/l | | 98 |
| 67) Ethyl Benzene | 11.517 | 91 | 461952 | 19.391 | ug/l | | 100 |
| 68) m/p-Xylenes | 11.627 | 106 | 362129 | 38.921 | ug/l | | 98 |
| 69) o-Xylene | 11.950 | 106 | 165485 | 18.990 | ug/l | | 97 |
| 70) Styrene | 11.963 | 104 | 273749 | 19.209 | ug/l | | 99 |
| 71) Bromoform | 12.127 | 173 | 49863 | 18.159 | ug/l | # | 100 |
| 73) Isopropylbenzene | 12.249 | 105 | 423027 | 19.345 | ug/l | | 99 |
| 74) N-amyl acetate | 12.066 | 43 | 78613 | 16.952 | ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.499 | 83 | 64150 | 17.181 | ug/l | | 94 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 54979m | 18.387 | ug/l | | |
| 77) Bromobenzene | 12.529 | 156 | 100851 | 19.332 | ug/l | | 98 |
| 78) n-propylbenzene | 12.590 | 91 | 520711 | 20.001 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 297769 | 19.962 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.731 | 105 | 348710 | 19.731 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.298 | 75 | 21491 | 17.398 | ug/l | | 94 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 312655 | 20.205 | ug/l | | 98 |
| 83) tert-Butylbenzene | 12.993 | 119 | 303222 | 18.997 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.036 | 105 | 351003 | 19.952 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.170 | 105 | 458024 | 19.534 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.285 | 119 | 374466 | 19.240 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.279 | 146 | 200869 | 19.525 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.359 | 146 | 200293 | 19.626 | ug/l | | 98 |
| 89) n-Butylbenzene | 13.615 | 91 | 344791 | 19.289 | ug/l | | 98 |
| 90) Hexachloroethane | 13.877 | 117 | 80689 | 20.252 | ug/l | | 97 |
| 91) 1,2-Dichlorobenzene | 13.651 | 146 | 172852 | 19.158 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.267 | 75 | 9872 | 16.982 | ug/l | | 95 |
| 93) 1,2,4-Trichlorobenzene | 14.913 | 180 | 93915 | 17.602 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.017 | 225 | 58299 | 18.595 | ug/l | | 98 |
| 95) Naphthalene | 15.139 | 128 | 142271 | 15.638 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.322 | 180 | 79576 | 17.308 | ug/l | | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023086.D
Acq On : 14 Aug 2025 11:22
Operator : SY/MD
Sample : VY0814SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 14 14:47:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023086.D
Acq On : 14 Aug 2025 11:22
Operator : SY/MD
Sample : VY0814SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 14 14:47:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations APPROVED**

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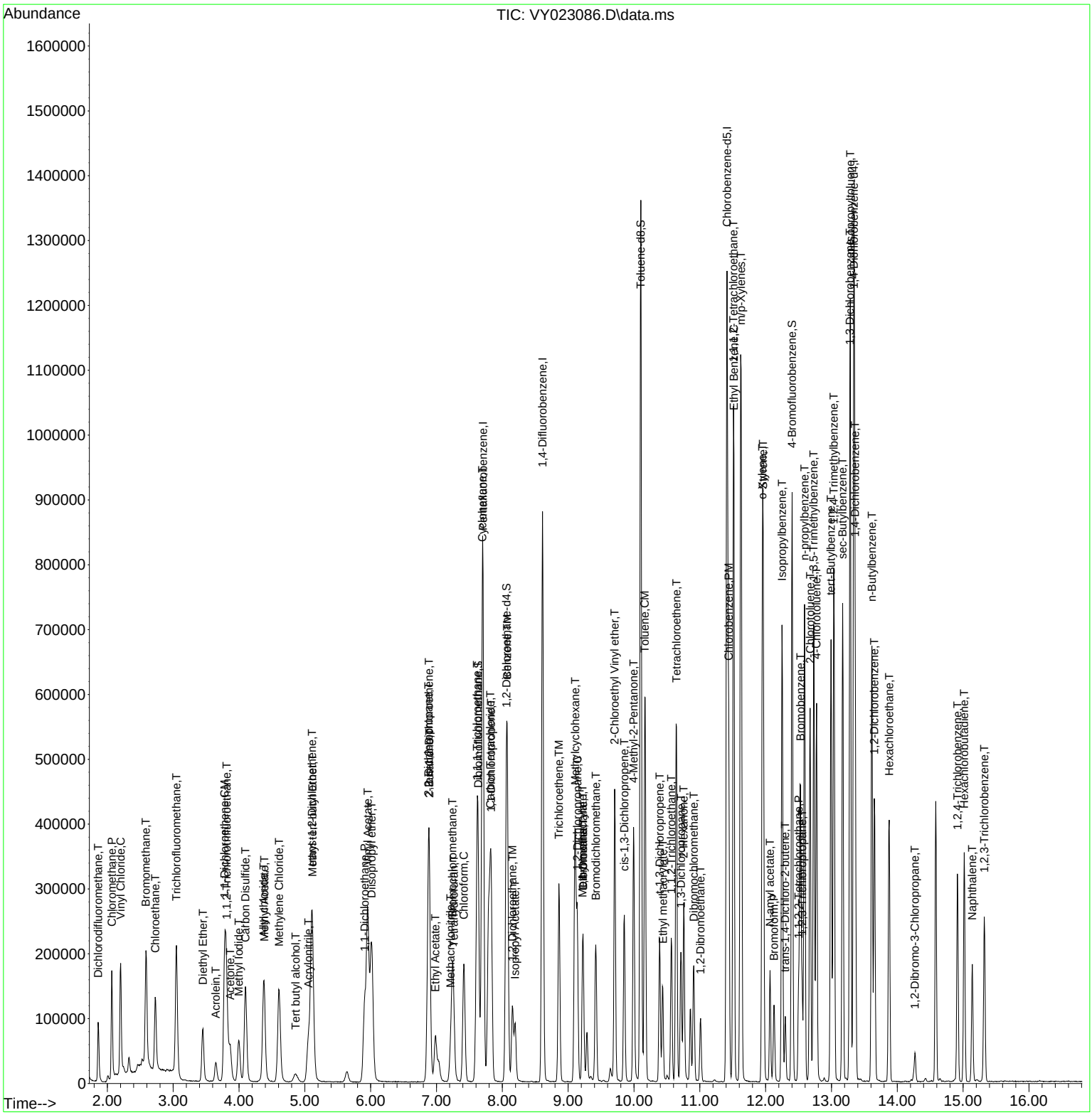
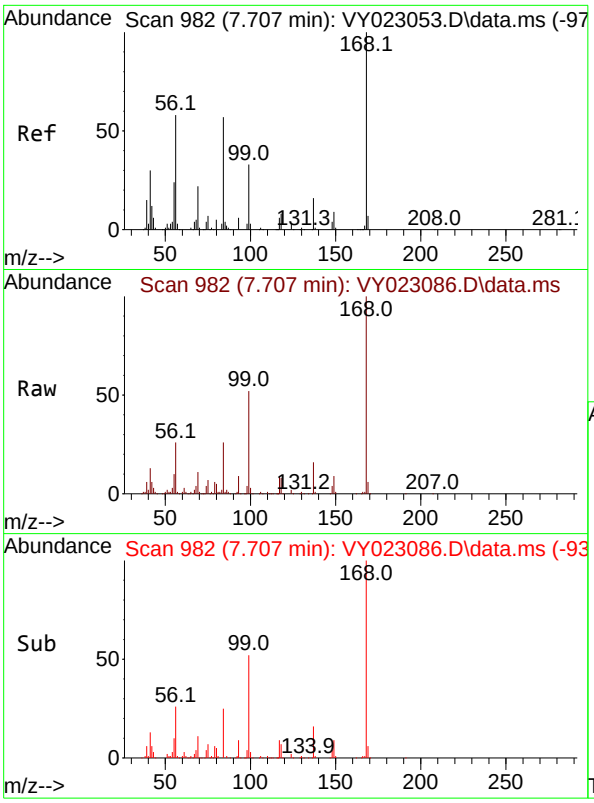
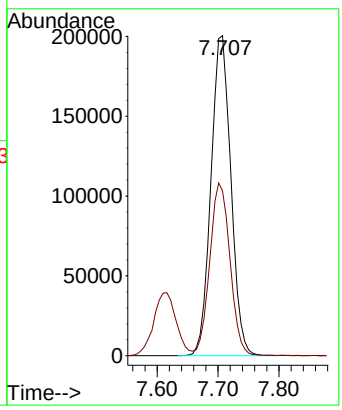





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:168 Resp: 45582

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 51.4 | 42.8 | 64.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 08/19/2025
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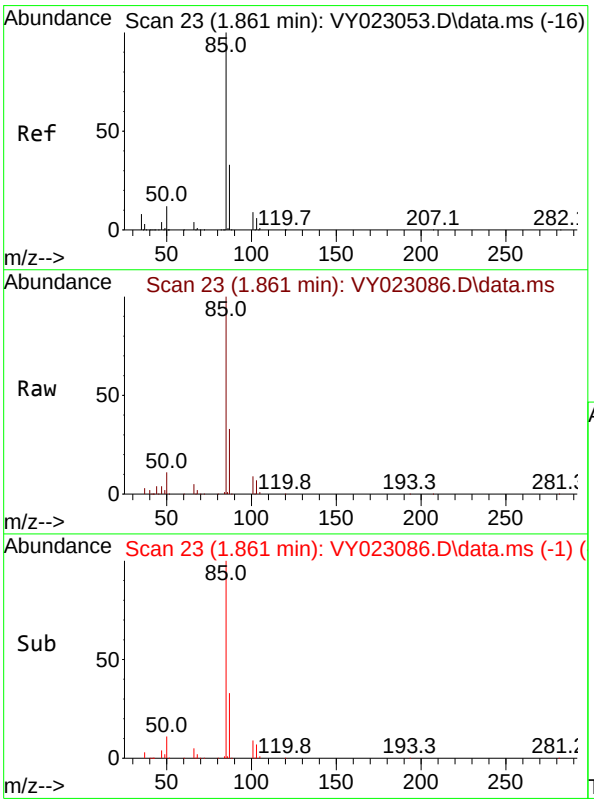
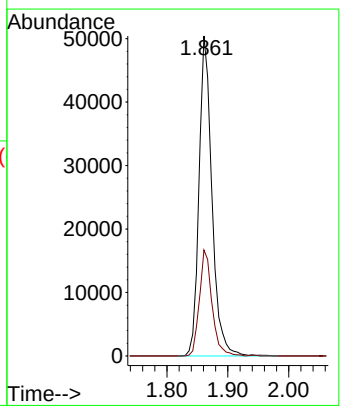
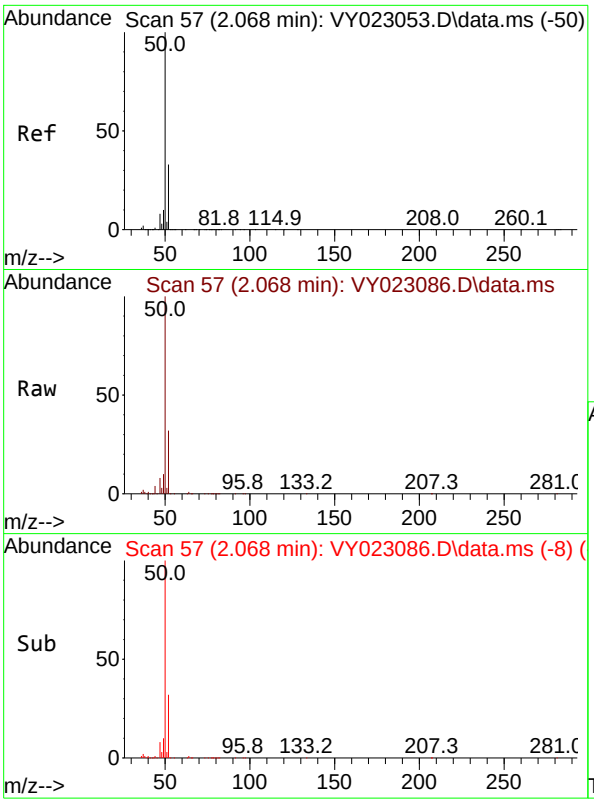



#2
Dichlorodifluoromethane
Concen: 19.980 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 85 Resp: 74341

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.1 | 16.6 | 49.8 |

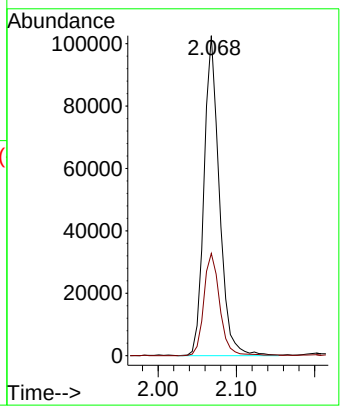





#3
Chloromethane
Concen: 23.098 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 50 Resp: 13919

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.0 | 26.7 | 40.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations**
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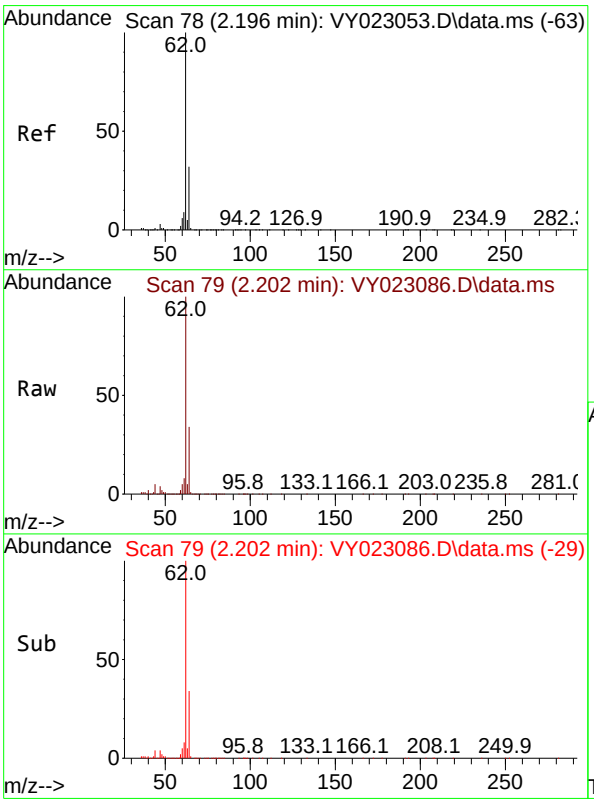
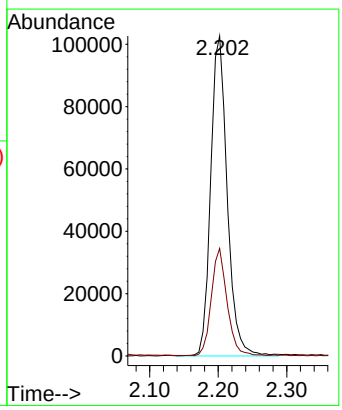
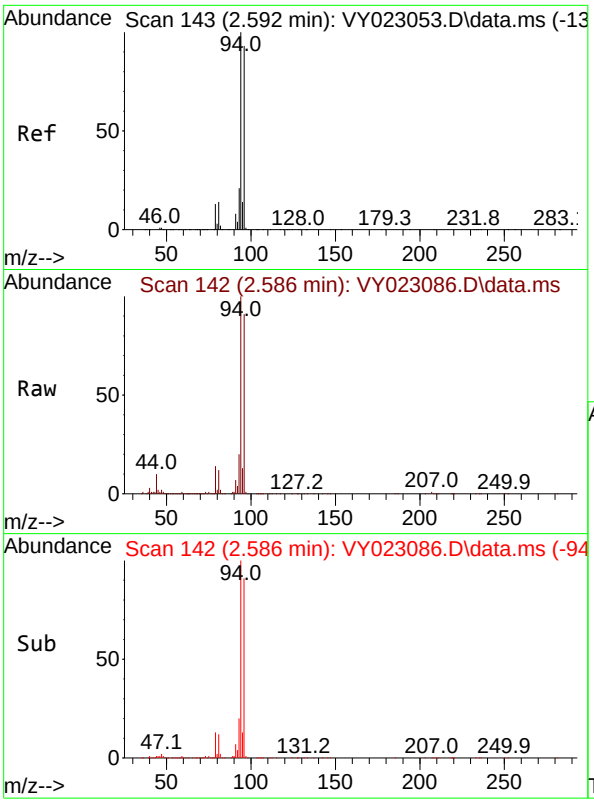



#4
Vinyl Chloride
Concen: 23.116 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 62 Resp: 172200

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 33.4 | 25.4 | 38.0 |

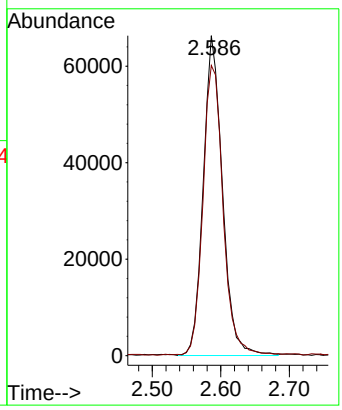





#5
Bromomethane
Concen: 23.250 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 94 Resp: 12934

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 90.4 | 74.6 | 112.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations**
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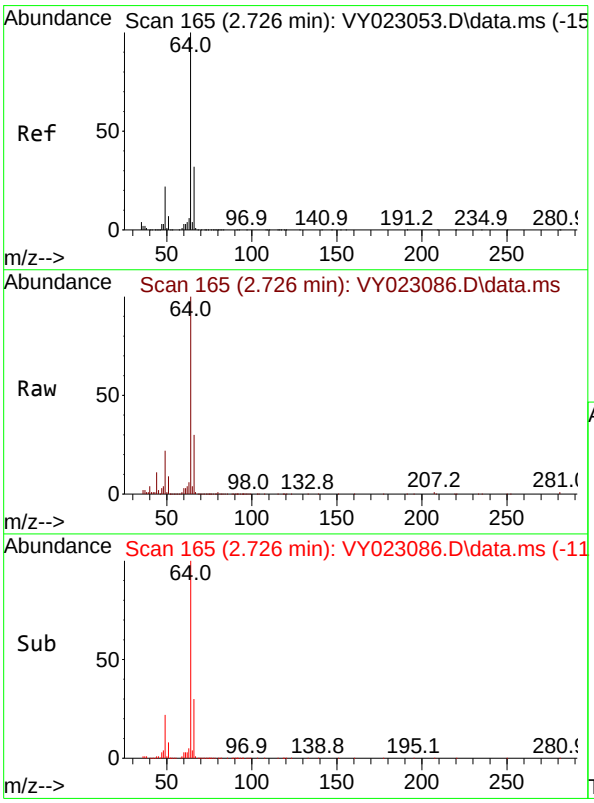
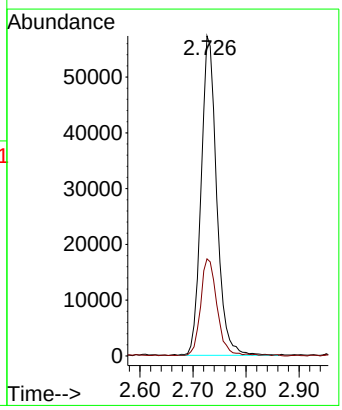
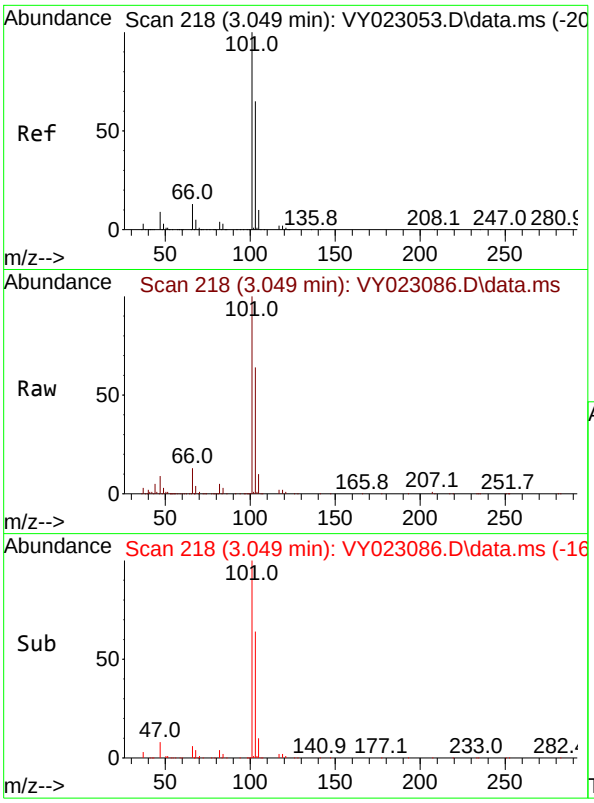



#6
Chloroethane
Concen: 23.545 ug/l
RT: 2.726 min Scan# 165
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 64 Resp: 116610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.2 | 25.8 | 38.6 |

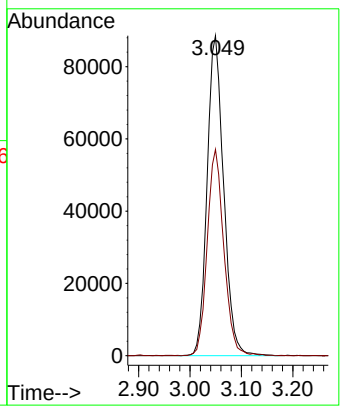





#7
Trichlorofluoromethane
Concen: 21.815 ug/l
RT: 3.049 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:101 Resp: 19759

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.4 | 51.9 | 77.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations**
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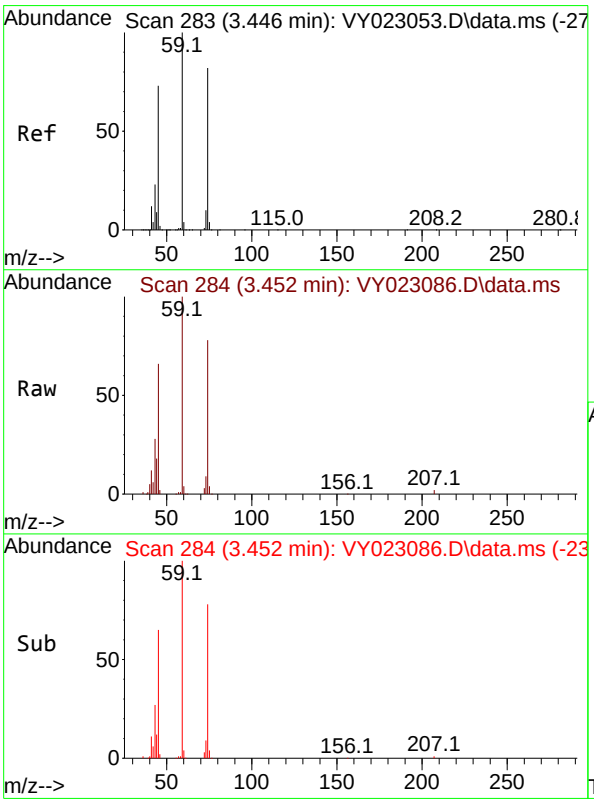
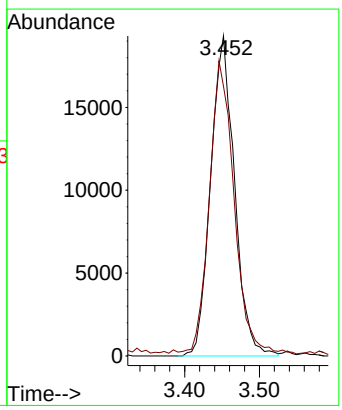
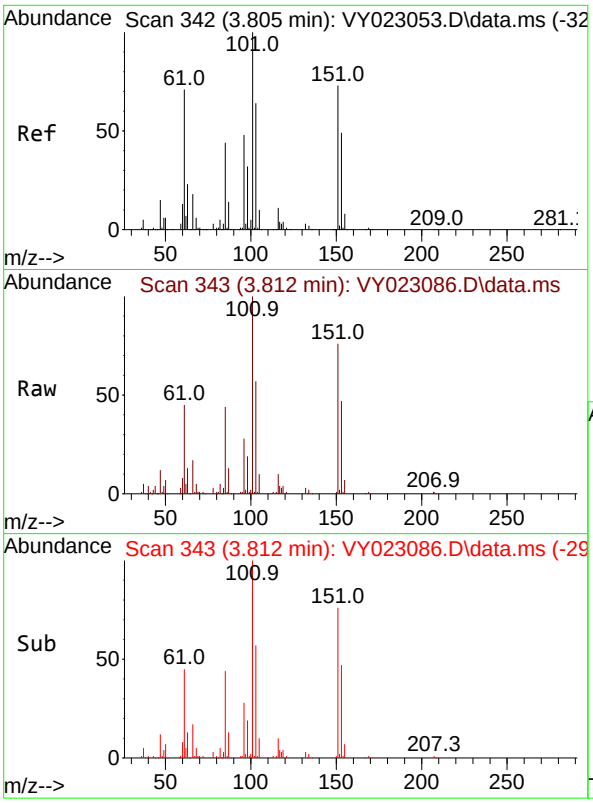



#8
Diethyl Ether
Concen: 17.867 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 74 Resp: 42819

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 94.9 | 44.4 | 133.2 |

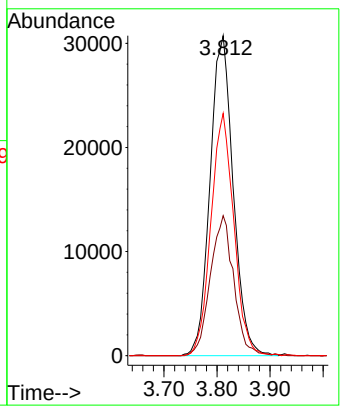





#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.865 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:101 Resp: 9324

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 44.2 | 36.3 | 54.5 |
| 151 | 75.1 | 61.5 | 92.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations**
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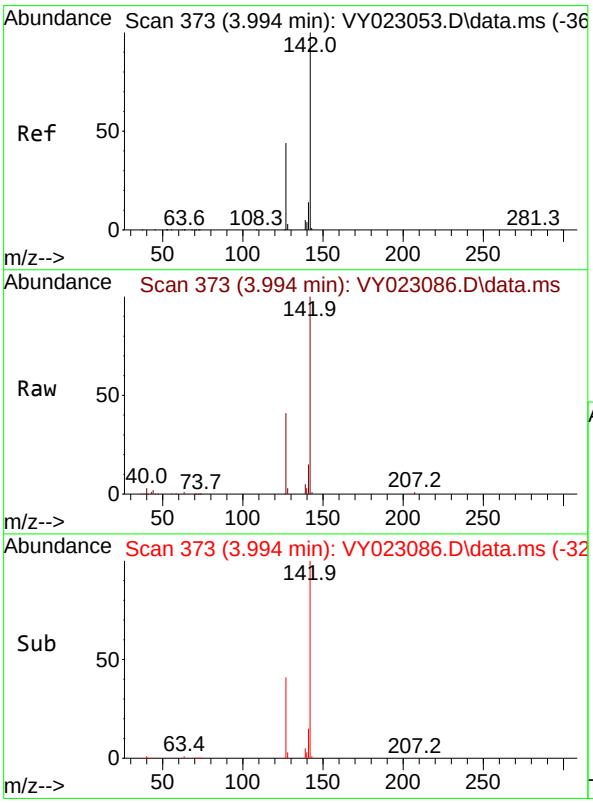
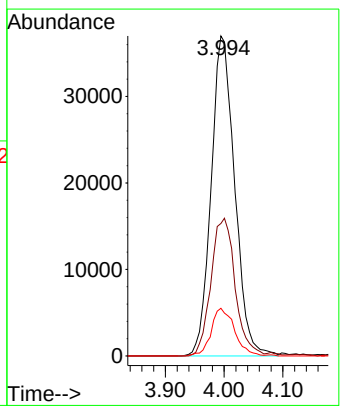
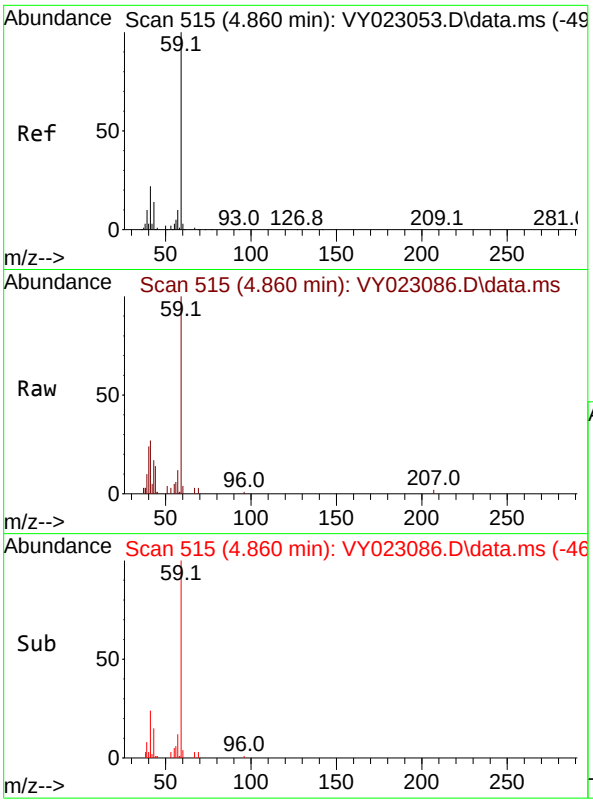



#10
Methyl Iodide
Concen: 21.381 ug/l
RT: 3.994 min Scan# 373
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:142 Resp: 103105

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 44.3 | 34.9 | 52.3 |
| 141 | 14.8 | 11.3 | 16.9 |

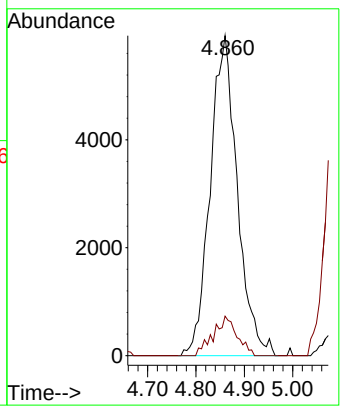





#11
Tert butyl alcohol
Concen: 77.519 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 59 Resp: 2307

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.8 | 8.6 | 13.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations**
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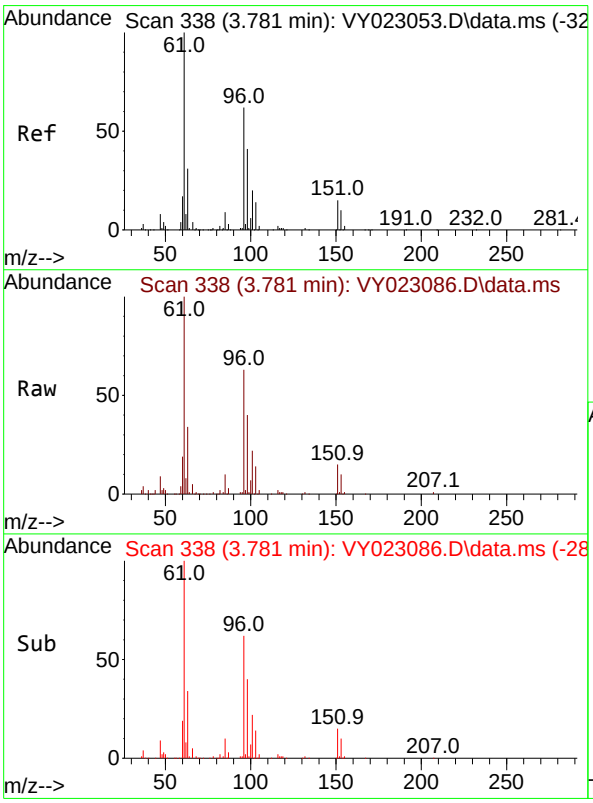
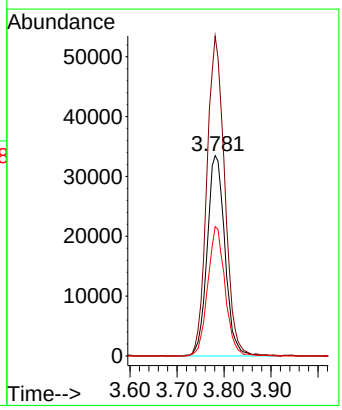
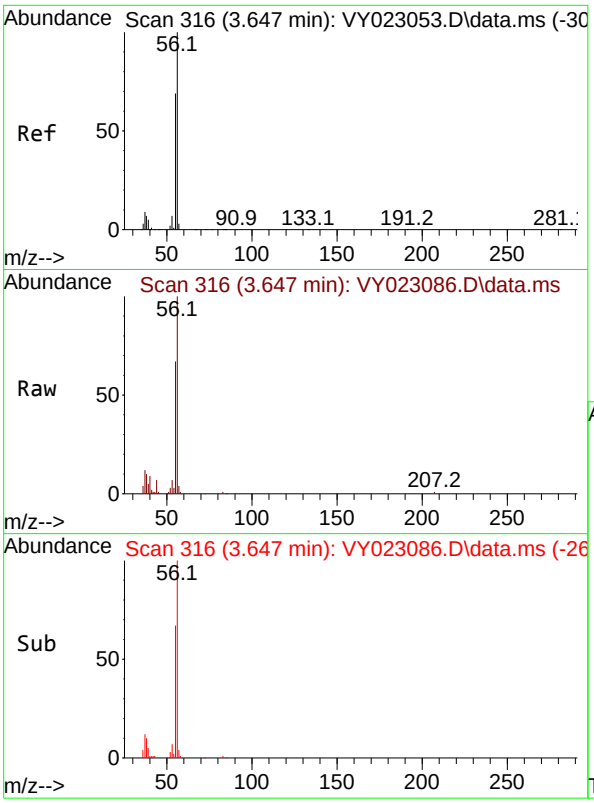



#12
1,1-Dichloroethene
Concen: 20.003 ug/l
RT: 3.781 min Scan# 338
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 96 Resp: 87863

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 159.8 | 129.4 | 194.2 |
| 98 | 64.5 | 52.8 | 79.2 |

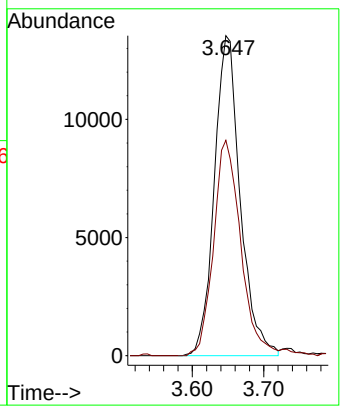





#13
Acrolein
Concen: 78.072 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 56 Resp: 3403

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 71.6 | 55.2 | 82.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations**
**APPROVED**

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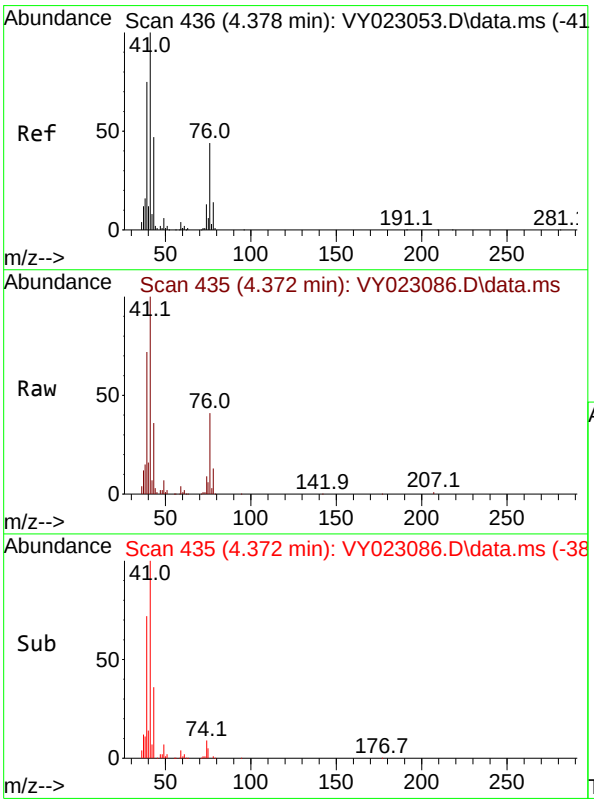
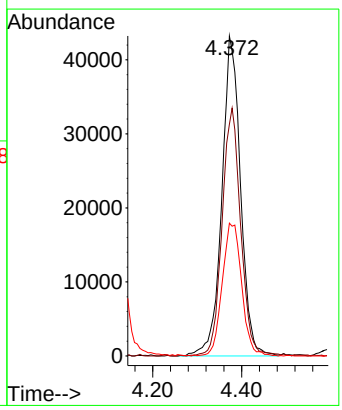
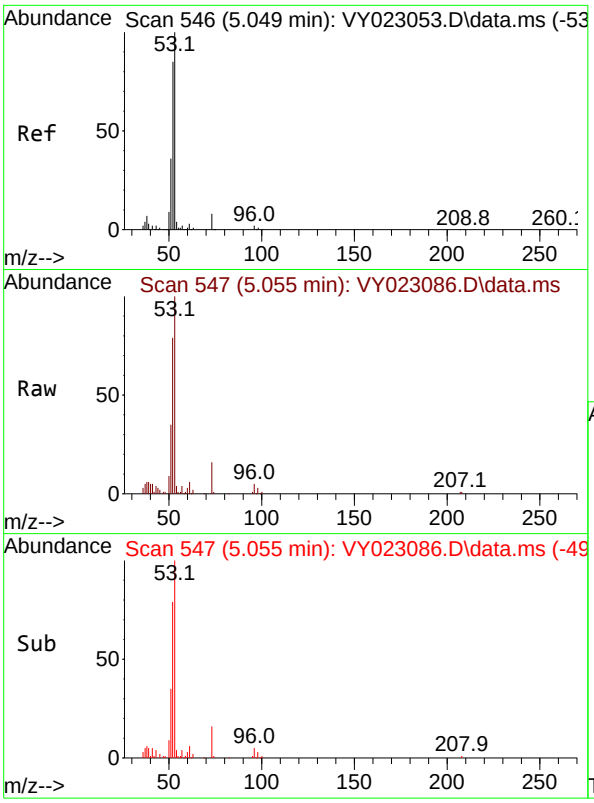



#14
Allyl chloride
Concen: 19.470 ug/l
RT: 4.372 min Scan# 435
Delta R.T. -0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 41 Resp: 125844

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 77.3 | 59.8 | 89.6 |
| 76 | 43.1 | 33.7 | 50.5 |

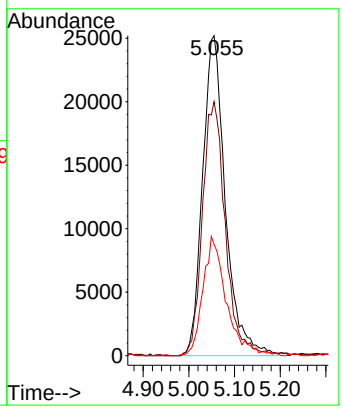





#15
Acrylonitrile
Concen: 89.605 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 53 Resp: 8730

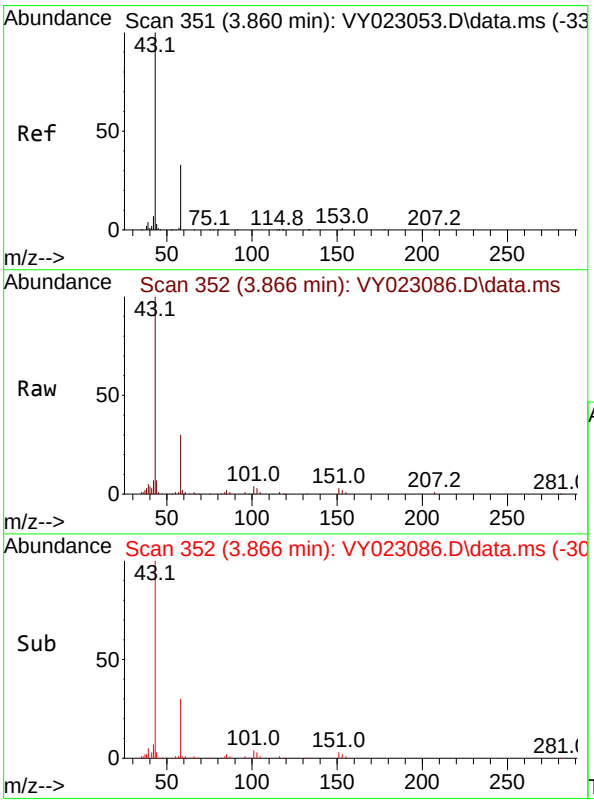
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 79.5 | 65.3 | 97.9 |
| 51 | 38.2 | 29.5 | 44.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations**
**APPROVED**

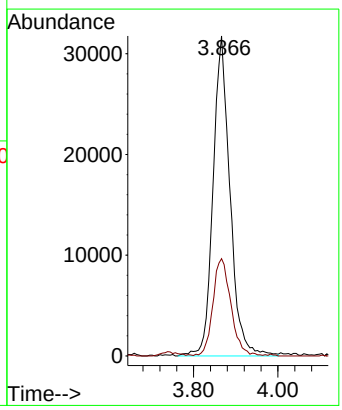
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

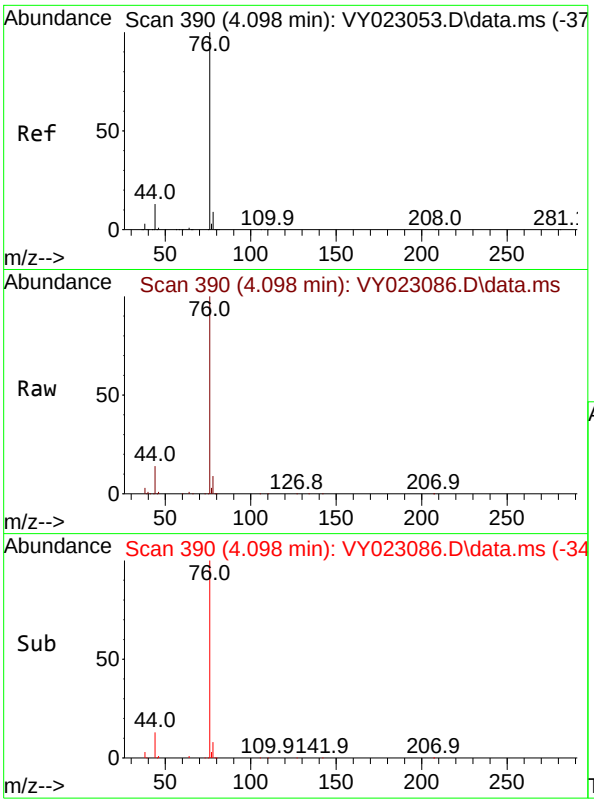



#16
Acetone
Concen: 94.185 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 43 Resp: 88645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 30.4 | 27.1 | 40.7 |






#17
Carbon Disulfide
Concen: 20.624 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 76 Resp: 29539

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.0 | 7.4 | 11.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations**
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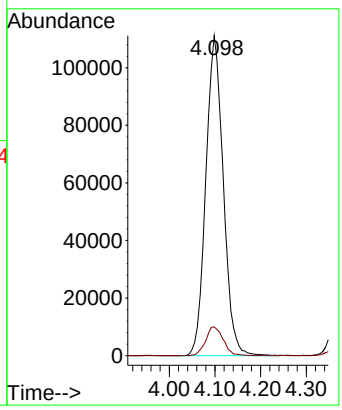
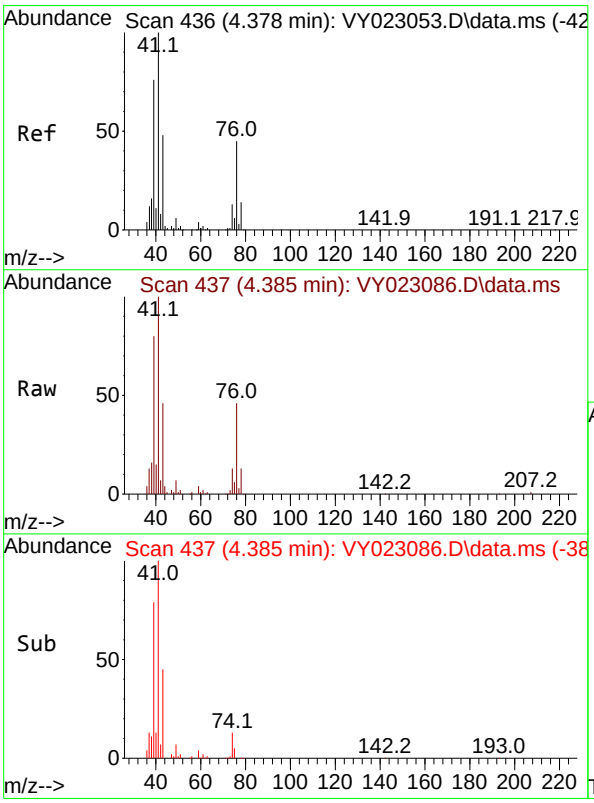
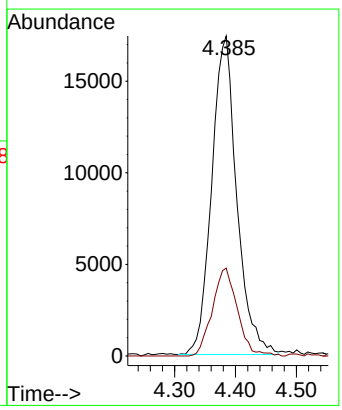


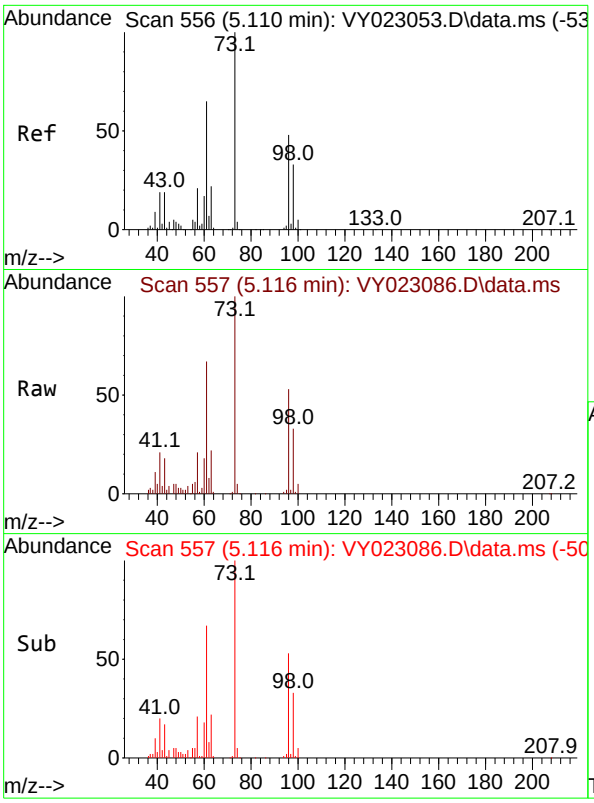




#18
Methyl Acetate
Concen: 17.778 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 43 Resp: 49793

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 27.4 | 21.2 | 31.8 |

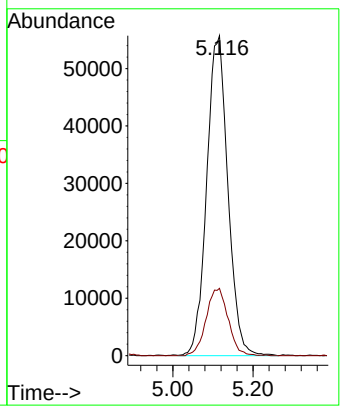





#19
Methyl tert-butyl Ether
Concen: 17.932 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 73 Resp: 20411

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.1 | 17.1 | 25.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations**
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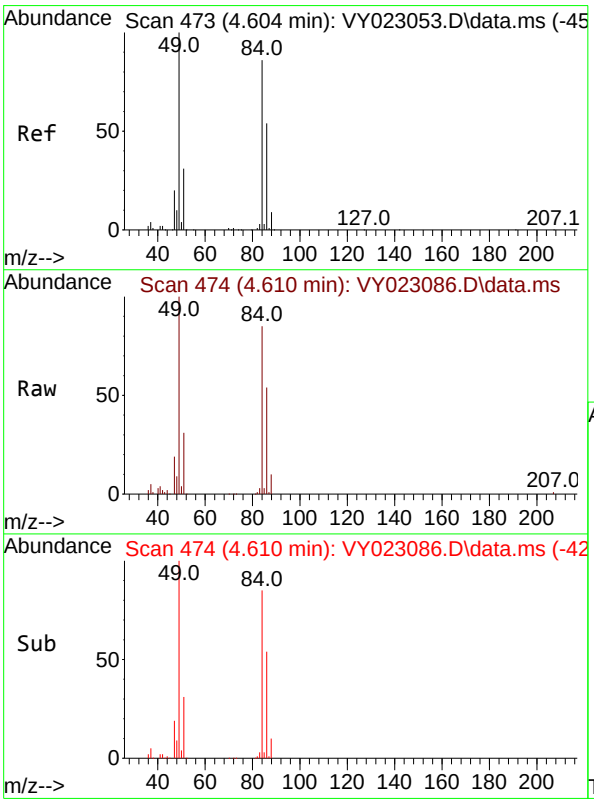
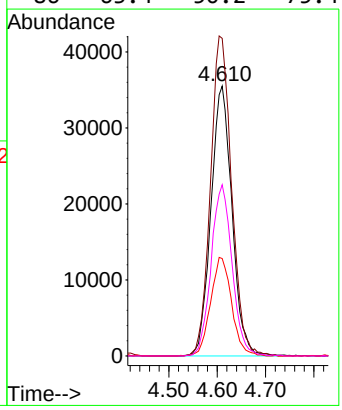
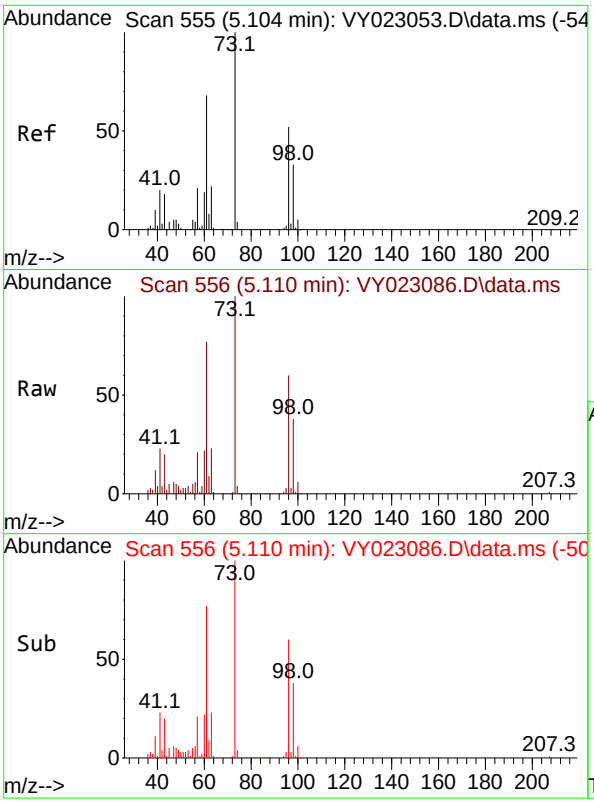



#20
Methylene Chloride
Concen: 20.355 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 84 Resp: 107429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 117.7 | 93.0 | 139.6 |
| 51 | 36.1 | 29.0 | 43.4 |
| 86 | 63.4 | 50.2 | 75.4 |

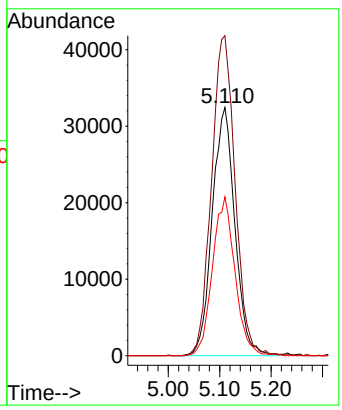





#21
trans-1,2-Dichloroethene
Concen: 20.198 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 96 Resp: 9970

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 128.9 | 104.8 | 157.2 |
| 98 | 64.0 | 50.1 | 75.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations**
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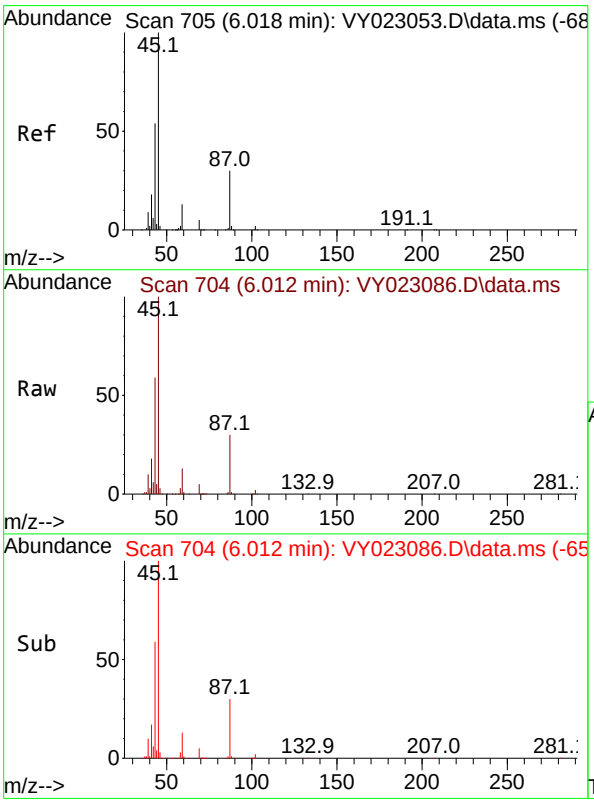
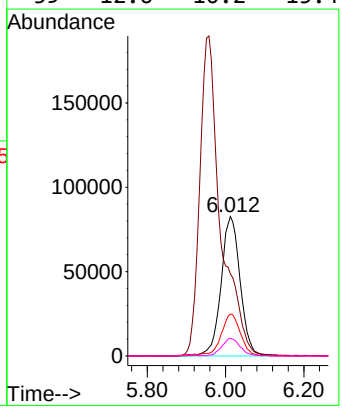
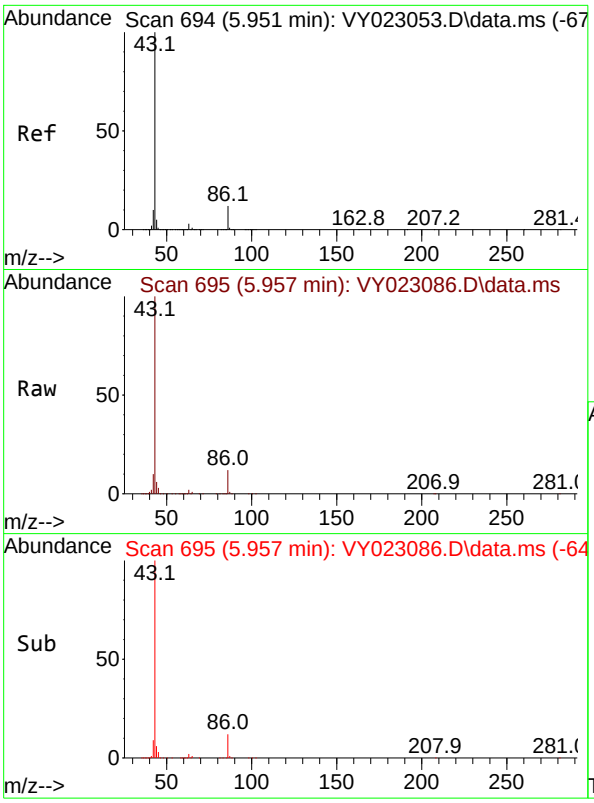



#22
Diisopropyl ether
Concen: 19.929 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 45 Resp: 279897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 59.0 | 43.4 | 65.0 |
| 87 | 30.1 | 24.4 | 36.6 |
| 59 | 12.6 | 10.2 | 15.4 |

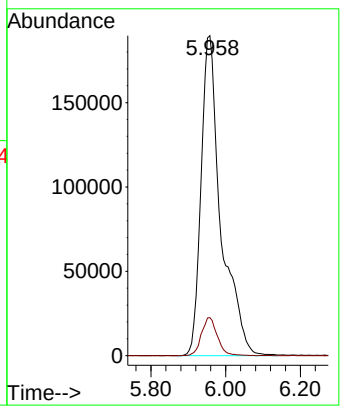





#23
Vinyl Acetate
Concen: 90.570 ug/l
RT: 5.957 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 43 Resp: 70337

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.9 | 9.6 | 14.4 |




**Instrument :**
MSVOA_Y
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VY0814SBS01

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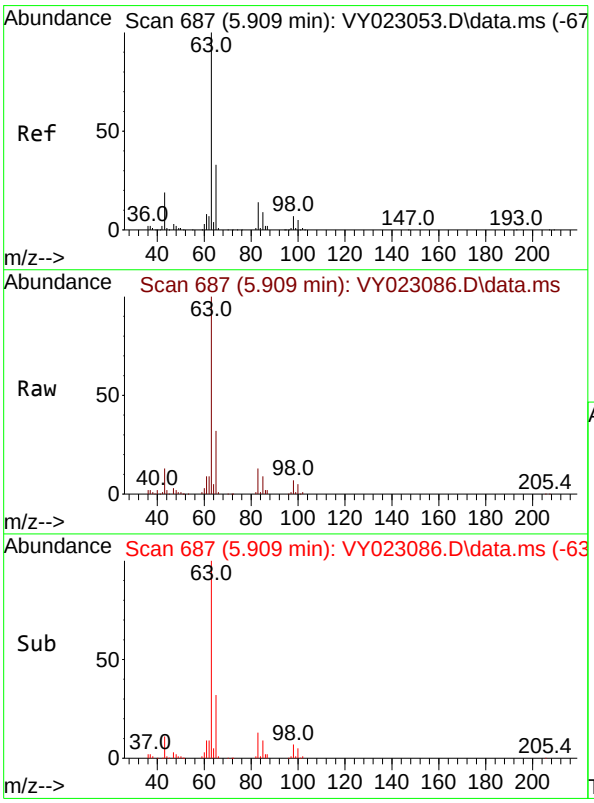
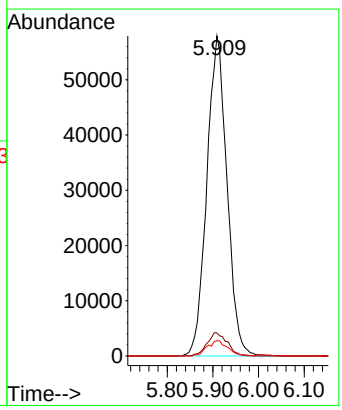
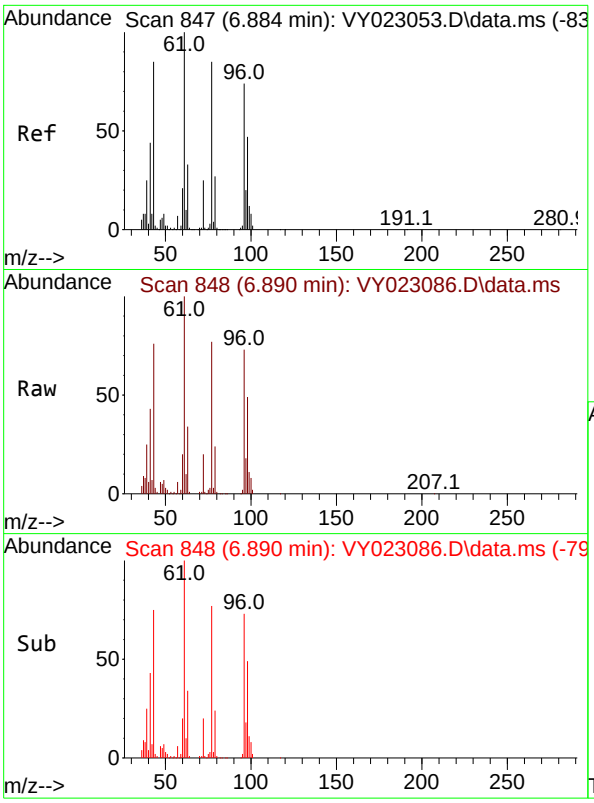



#24
1,1-Dichloroethane
Concen: 20.666 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 63 Resp: 177456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.2 | 3.5 | 10.6 |
| 100 | 4.7 | 2.4 | 7.1 |






#25
2-Butanone
Concen: 88.799 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 43 Resp: 11366

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 26.8 | 23.5 | 35.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

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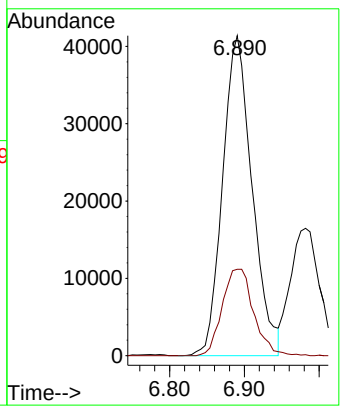
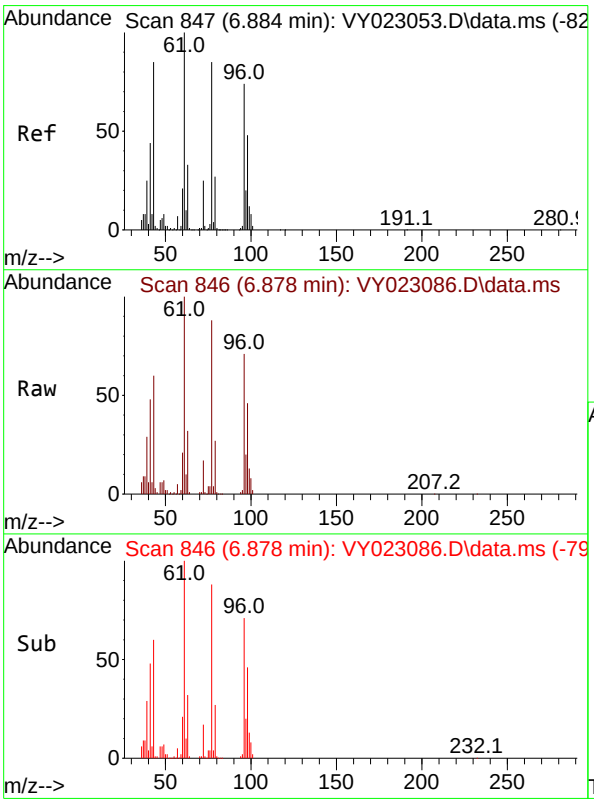
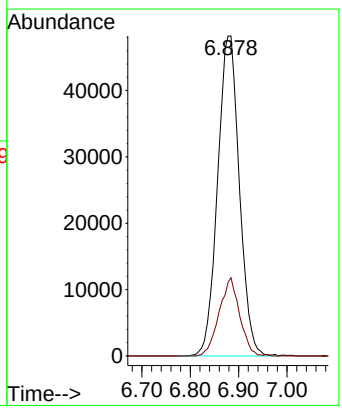


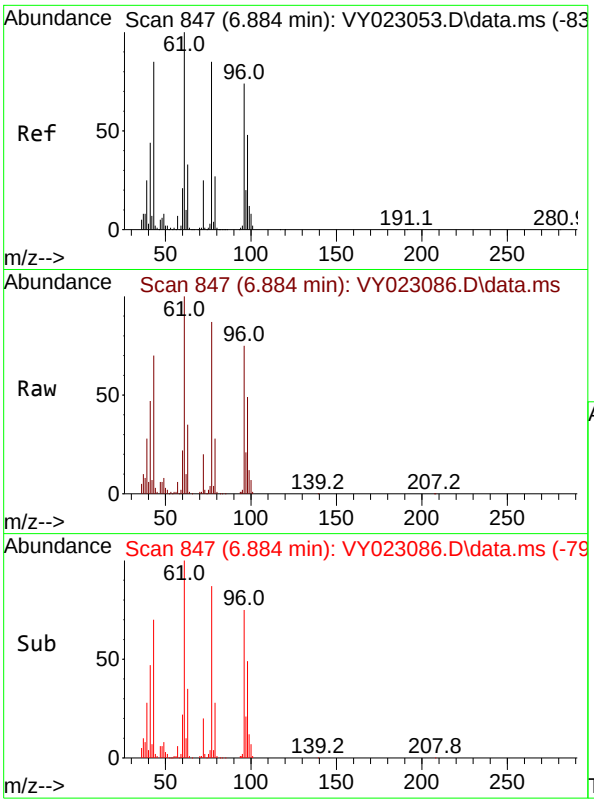




#26
2,2-Dichloropropane
Concen: 20.328 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 77 Resp: 150616

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.0 | 11.6 | 34.8 |

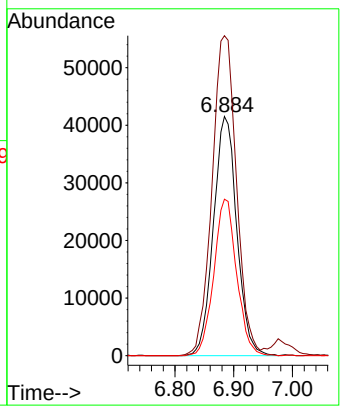





#27
cis-1,2-Dichloroethene
Concen: 20.100 ug/l
RT: 6.884 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 96 Resp: 11470

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 139.9 | 0.0 | 278.6 |
| 98 | 64.0 | 0.0 | 130.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations**
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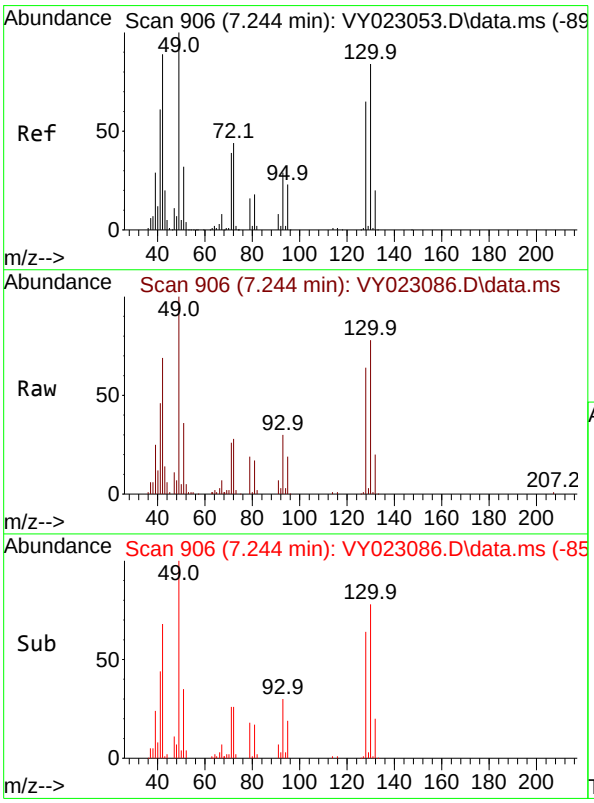
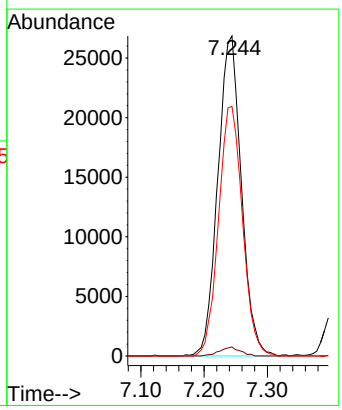
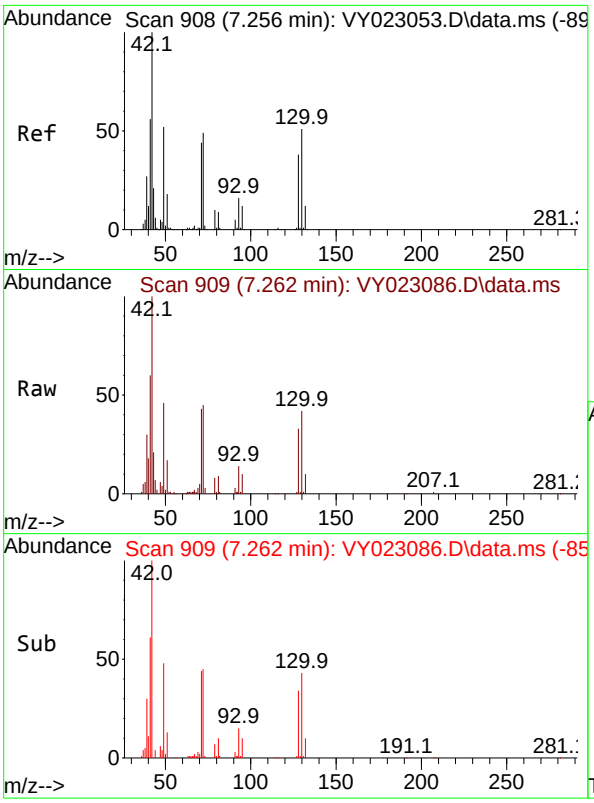



#28
Bromochloromethane
Concen: 20.335 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 49 Resp: 69276

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.4 | 0.0 | 4.2 |
| 130 | 79.4 | 66.4 | 99.6 |






#29
Tetrahydrofuran
Concen: 85.363 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 42 Resp: 6773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 45.3 | 39.4 | 59.2 |
| 71 | 43.6 | 36.5 | 54.7 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations**
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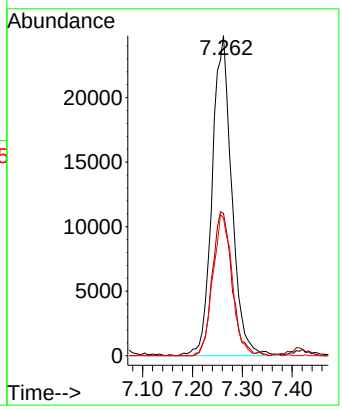
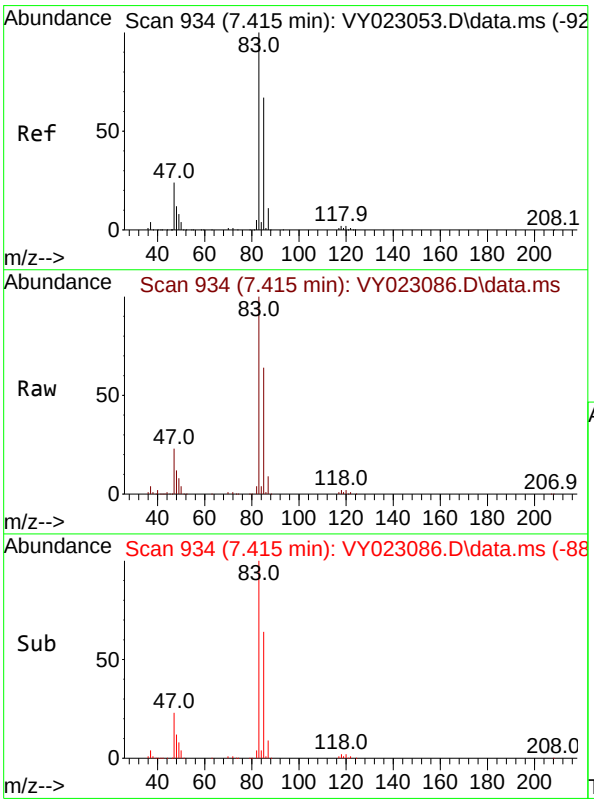
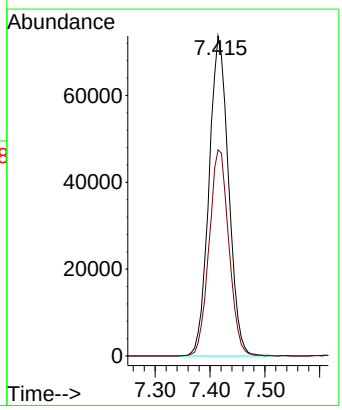


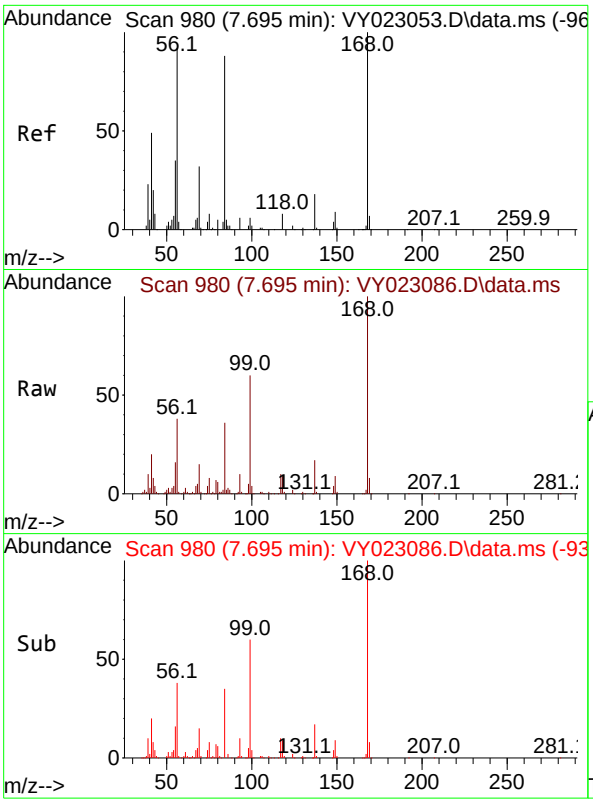




#30
Chloroform
Concen: 20.591 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 83 Resp: 182352

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.4 | 53.8 | 80.8 |

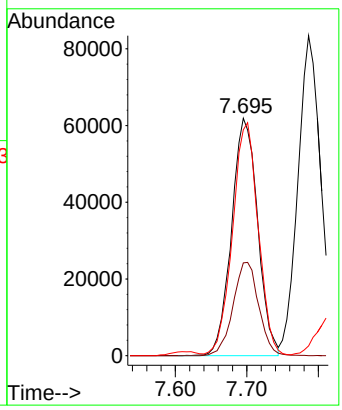





#31
Cyclohexane
Concen: 19.392 ug/l
RT: 7.695 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 56 Resp: 15691

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 39.1 | 28.2 | 42.2 |
| 84 | 93.6 | 76.6 | 114.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations**
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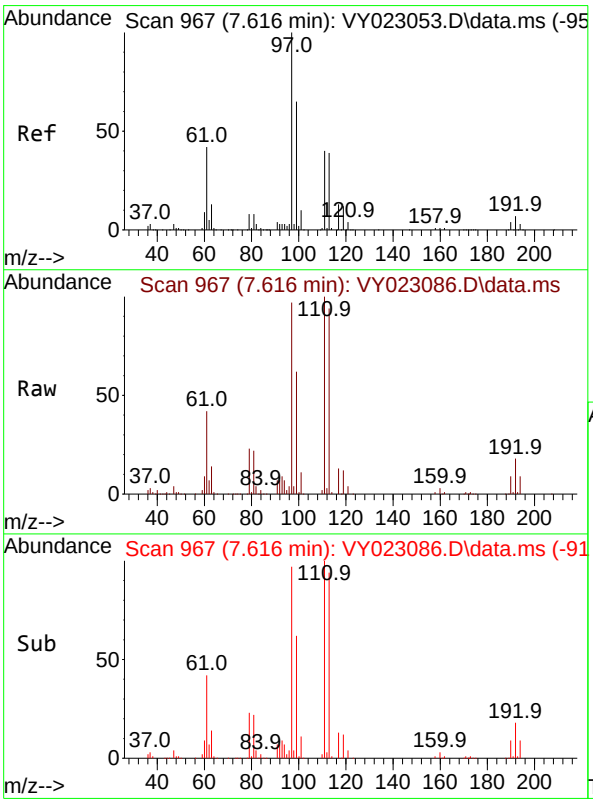
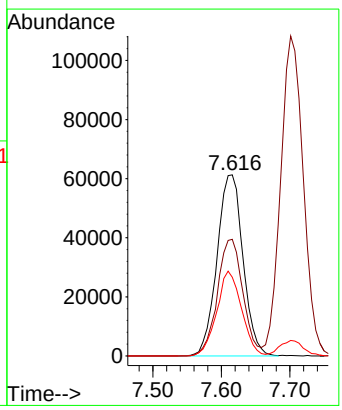
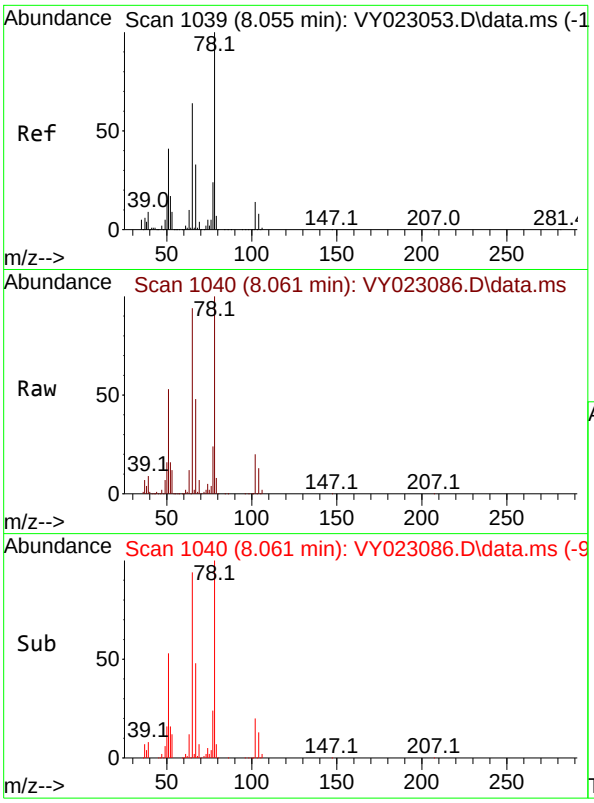



#32
1,1,1-Trichloroethane
Concen: 20.543 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 97 Resp: 161426

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.4 | 51.6 | 77.4 |
| 61 | 44.8 | 34.2 | 51.2 |

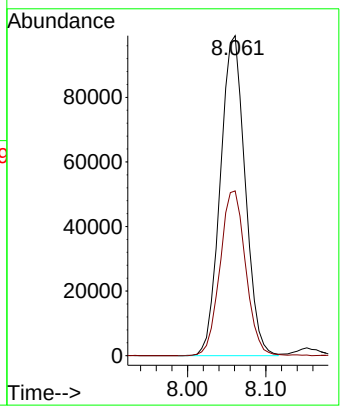





#33
1,2-Dichloroethane-d4
Concen: 50.253 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 65 Resp: 2183

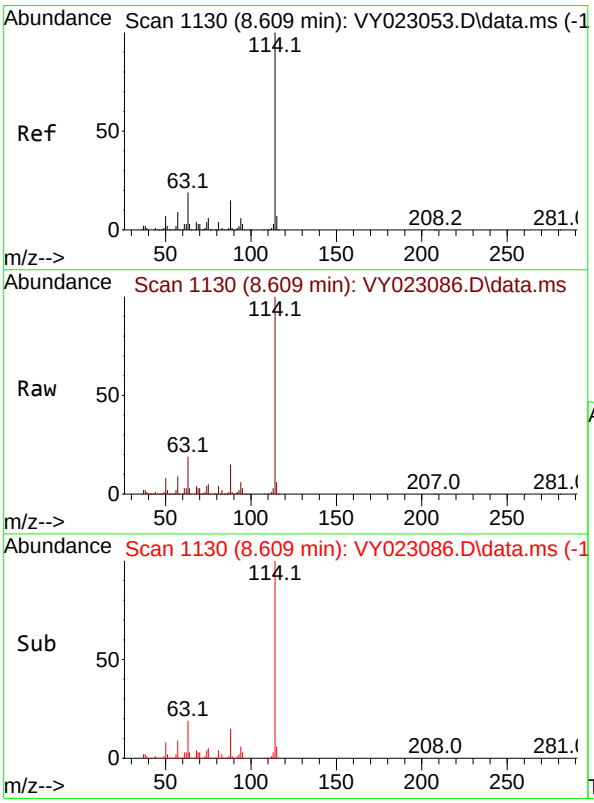
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.1 | 0.0 | 106.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations**
**APPROVED**

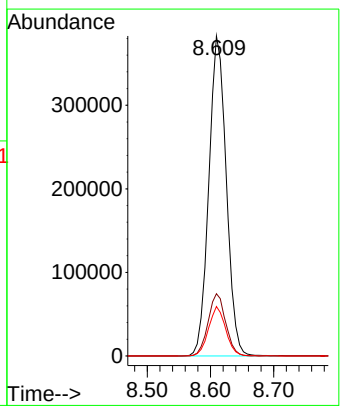
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

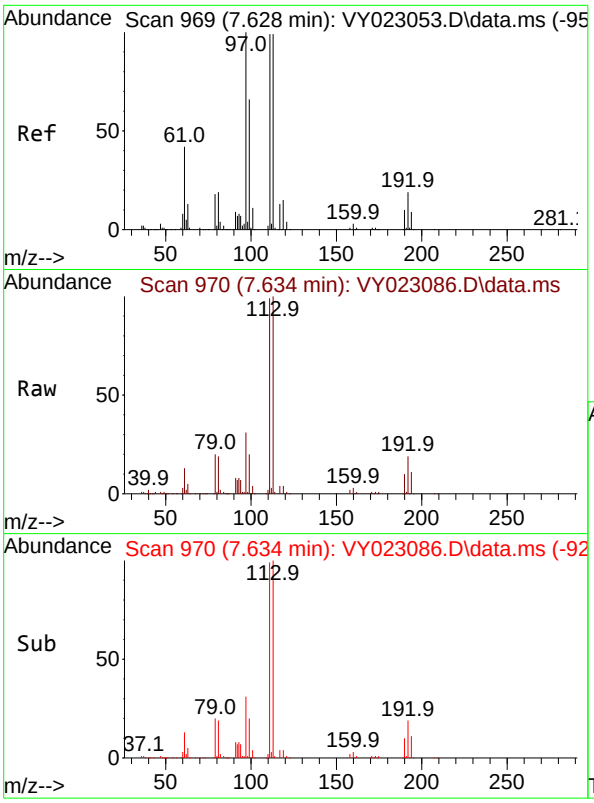



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:114 Resp: 734618

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.5 | 0.0 | 38.4 |
| 88 | 15.4 | 0.0 | 30.0 |

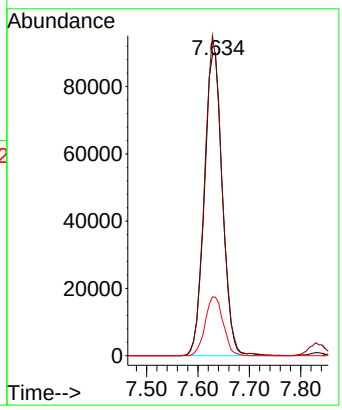





#35
Dibromofluoromethane
Concen: 50.078 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:113 Resp: 22013

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.0 | 81.1 | 121.7 |
| 192 | 19.4 | 16.2 | 24.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations**
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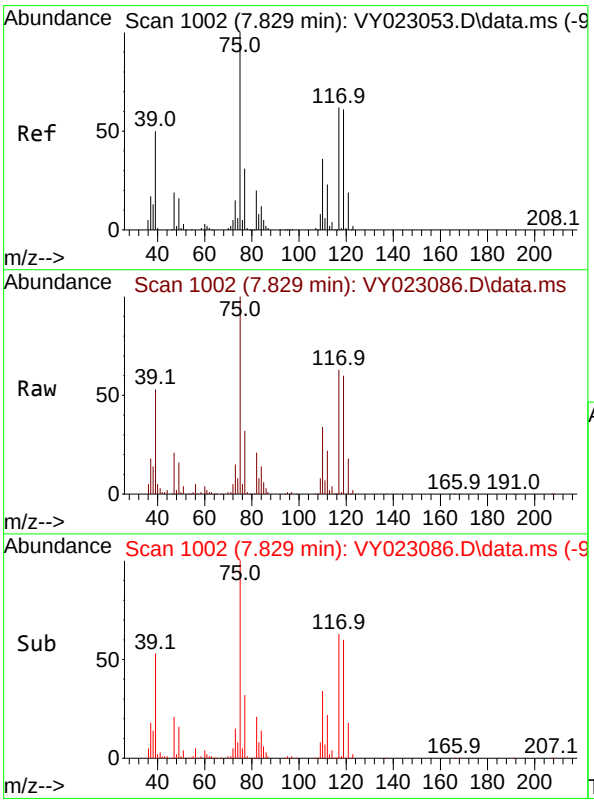
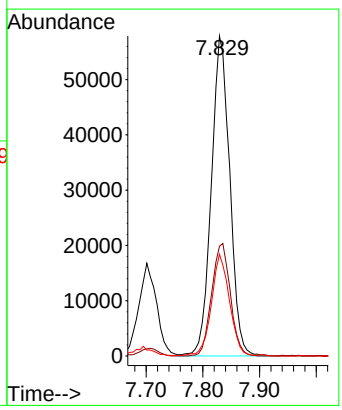
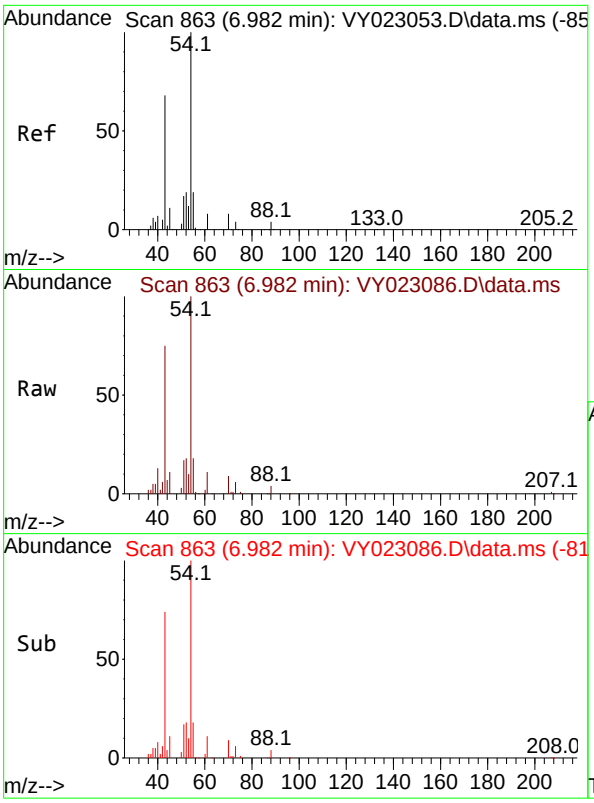



#36
1,1-Dichloropropene
Concen: 20.063 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 75 Resp: 131067

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.5 | 18.1 | 54.4 |
| 77 | 30.8 | 24.6 | 37.0 |






#37
Ethyl Acetate
Concen: 16.687 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 43 Resp: 4579

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.7 | 11.9 | 17.9 |
| 70 | 11.4 | 8.8 | 13.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations**
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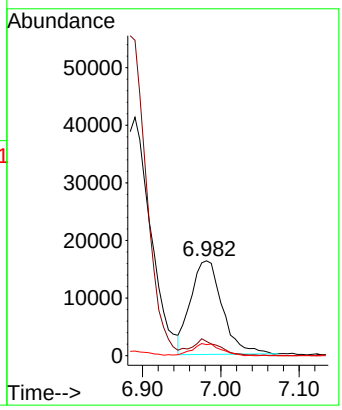
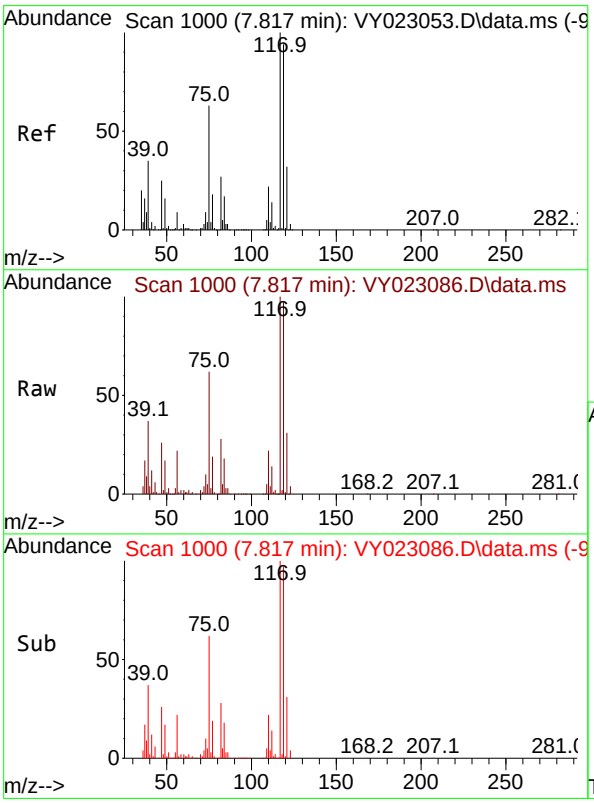
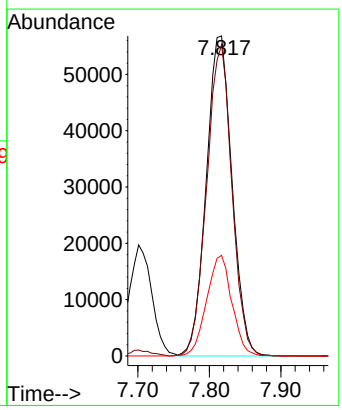


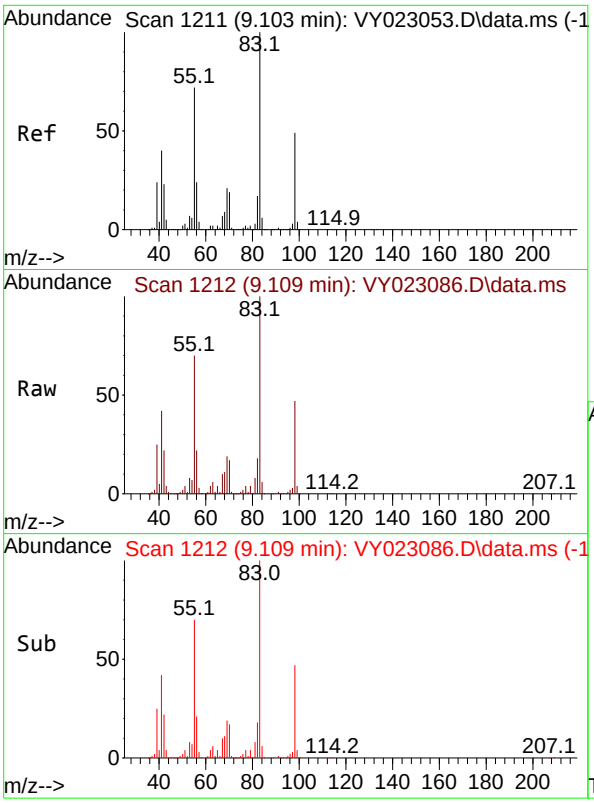




#38
Carbon Tetrachloride
Concen: 20.062 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:117 Resp: 142349

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 97.2 | 75.6 | 113.4 |
| 121 | 31.4 | 25.8 | 38.8 |






#39
Methylcyclohexane
Concen: 18.690 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 83 Resp: 16078

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 69.6 | 57.6 | 86.4 |
| 98 | 47.1 | 39.2 | 58.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations**
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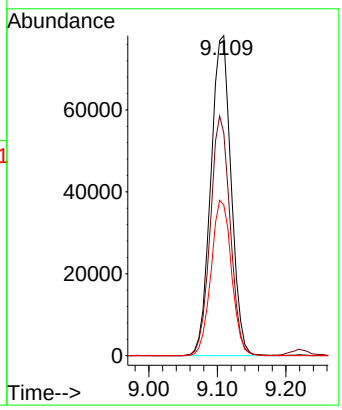
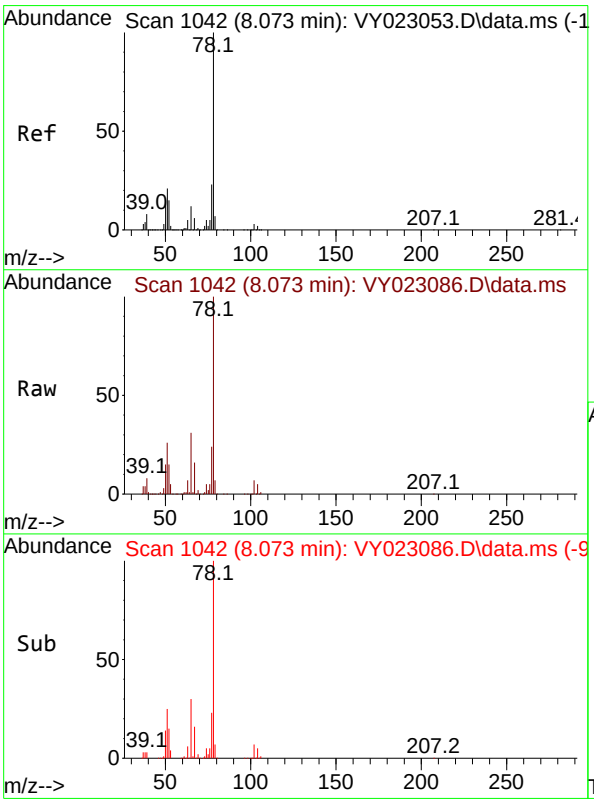
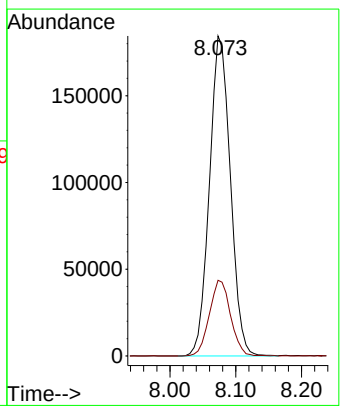


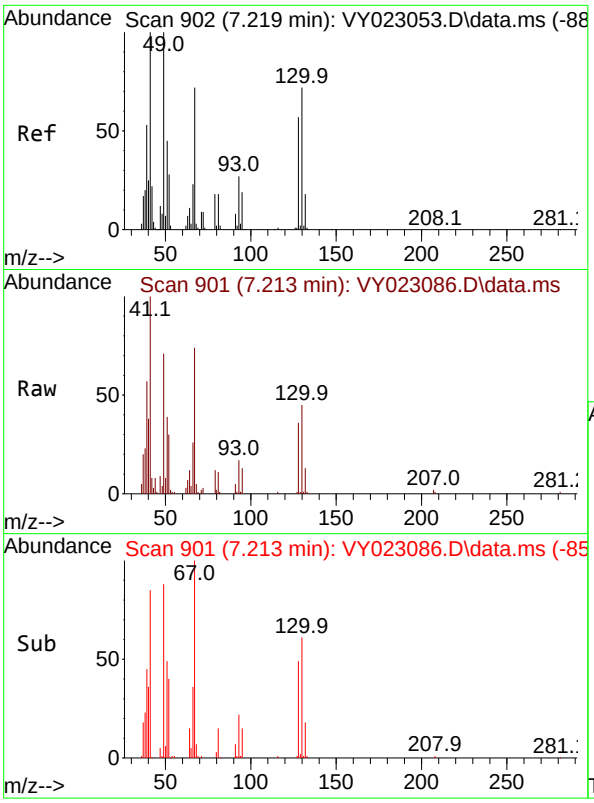




#40
Benzene
Concen: 20.306 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 78 Resp: 408860

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.6 | 18.6 | 28.0 |






#41
Methacrylonitrile
Concen: 14.607 ug/l
RT: 7.213 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 41 Resp: 2313

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 53.2 | 43.4 | 65.2 |
| 67 | 97.5 | 63.6 | 95.4 |
| 52 | 41.5 | 25.4 | 38.2# |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations**
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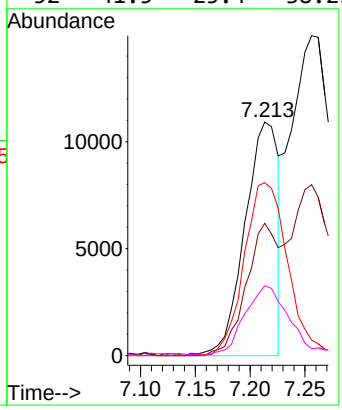
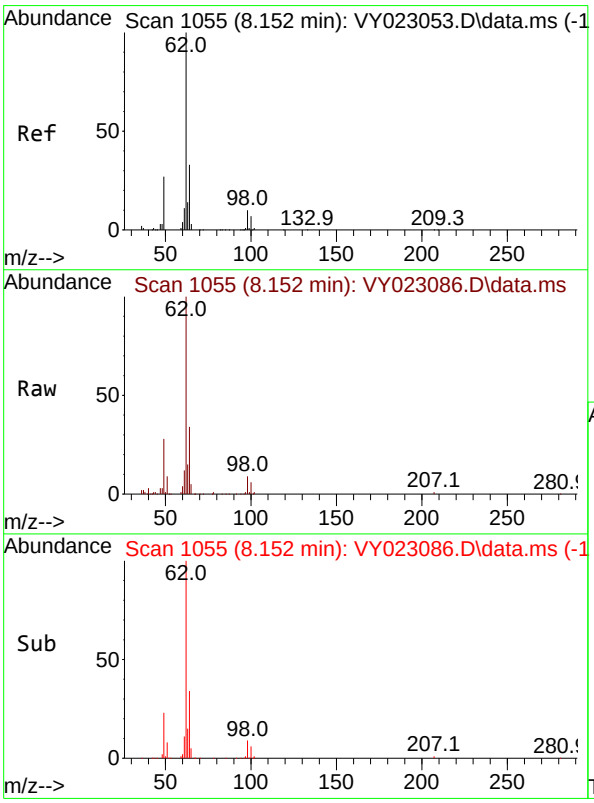
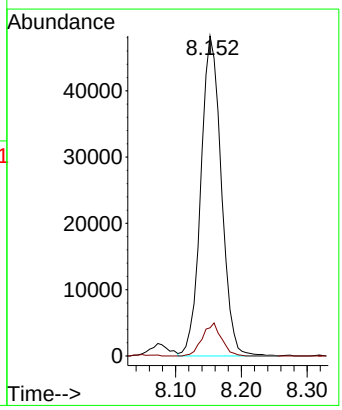


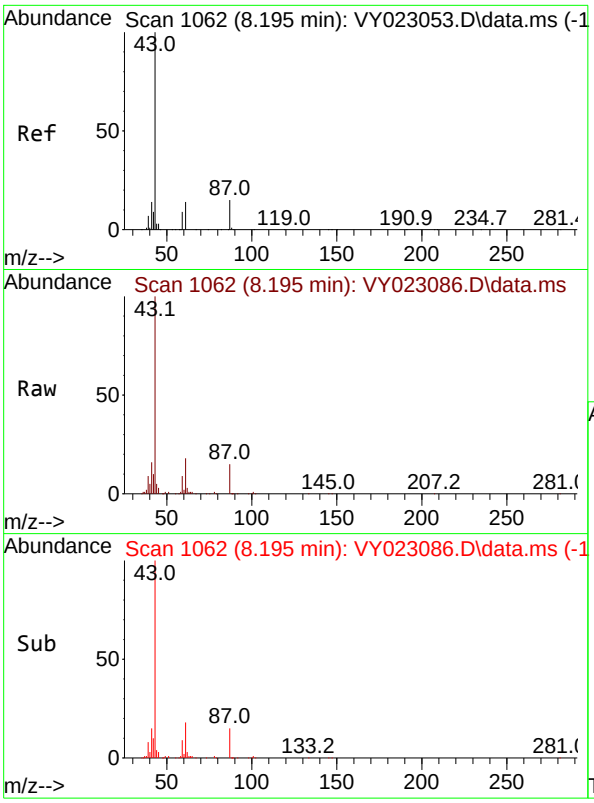




#42
1,2-Dichloroethane
Concen: 19.970 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 62 Resp: 104577

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.6 | 0.0 | 20.6 |

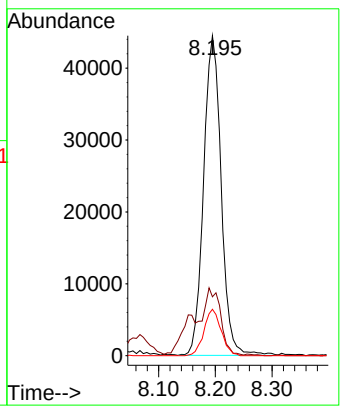





#43
Isopropyl Acetate
Concen: 17.262 ug/l
RT: 8.195 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 43 Resp: 9574

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 19.7 | 16.4 | 24.6 |
| 87 | 14.2 | 11.8 | 17.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations**
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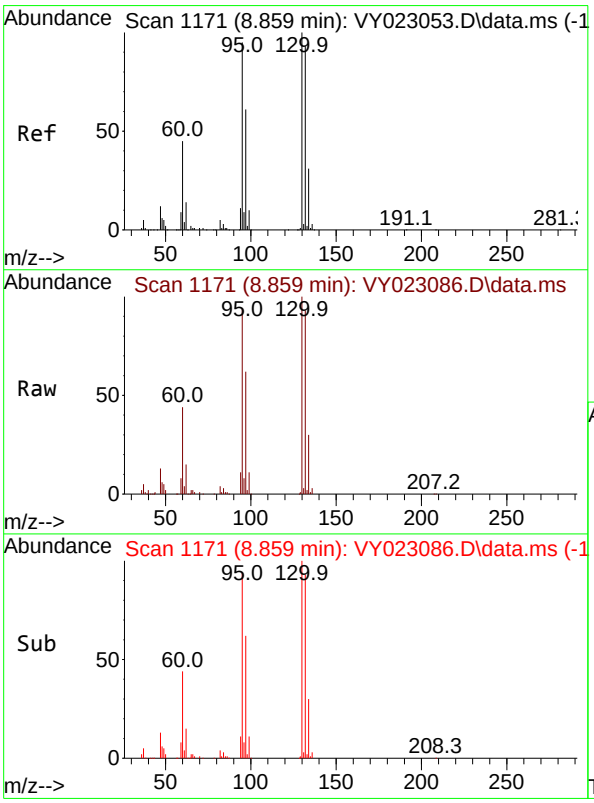
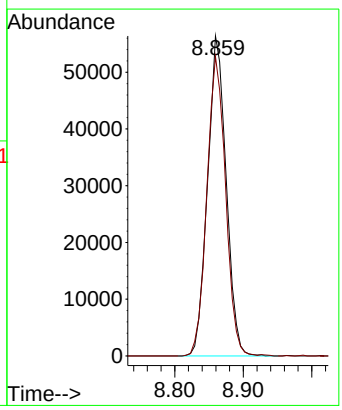
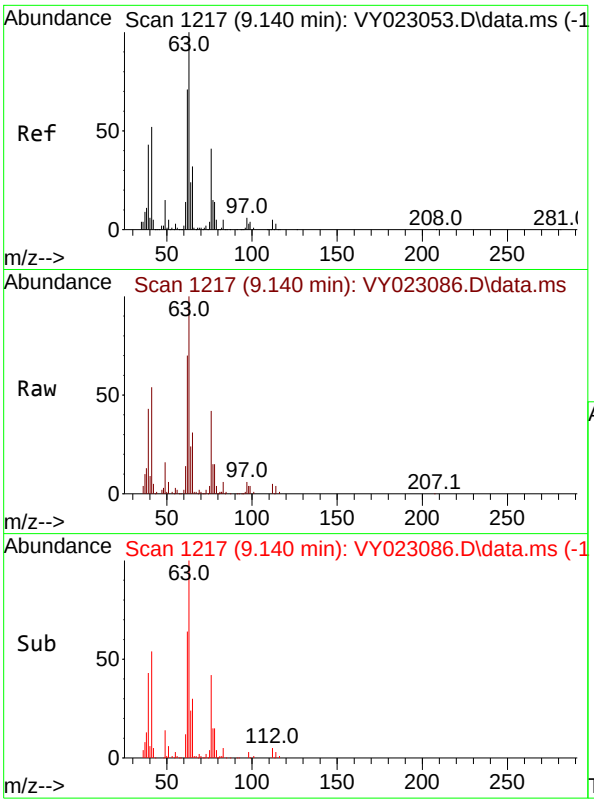



#44
Trichloroethene
Concen: 20.488 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:130 Resp: 106605

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 93.6 | 0.0 | 190.2 |

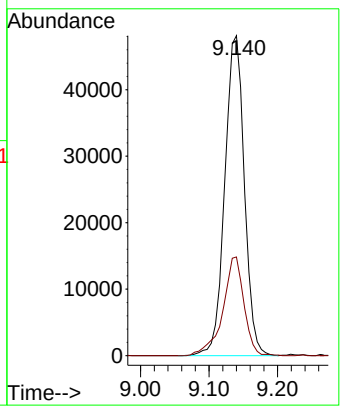





#45
1,2-Dichloropropane
Concen: 20.603 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 63 Resp: 9544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.8 | 25.3 | 37.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

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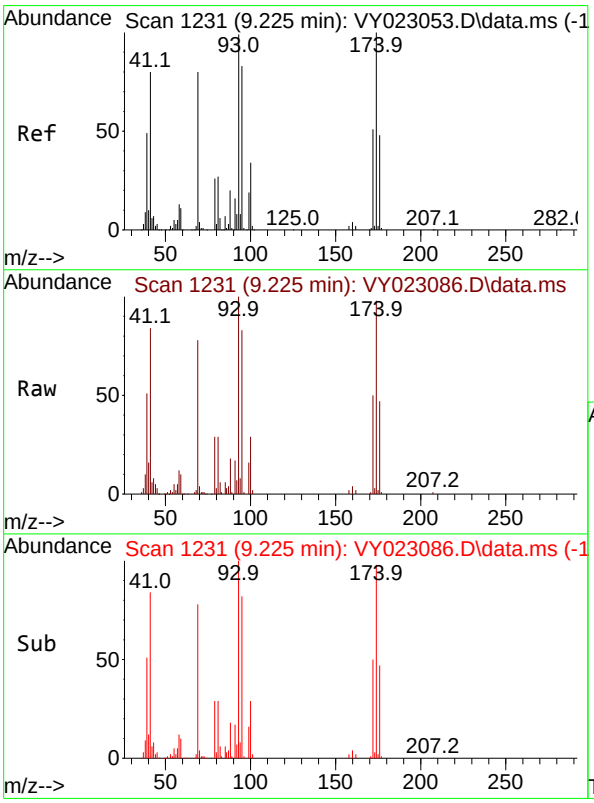
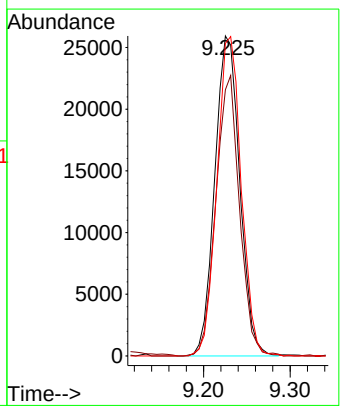
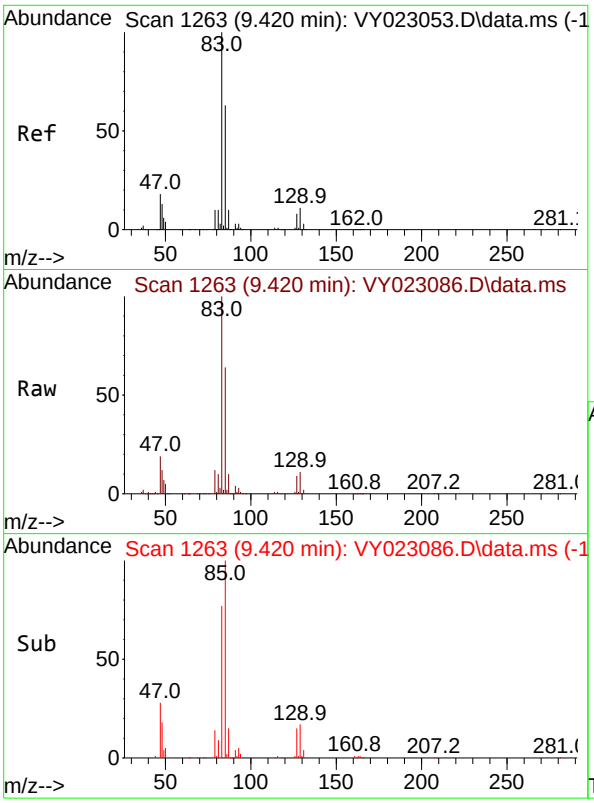



#46
Dibromomethane
Concen: 19.543 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 93 Resp: 51967

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.9 | 66.5 | 99.7 |
| 174 | 97.3 | 81.8 | 122.8 |

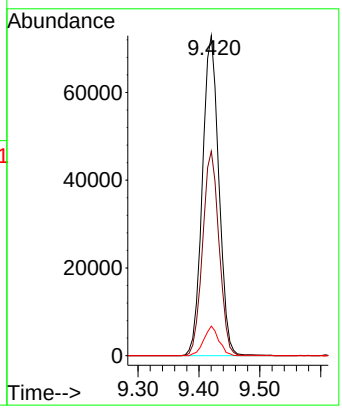





#47
Bromodichloromethane
Concen: 20.042 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 83 Resp: 13713

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.9 | 50.2 | 75.4 |
| 127 | 9.2 | 6.6 | 10.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations**
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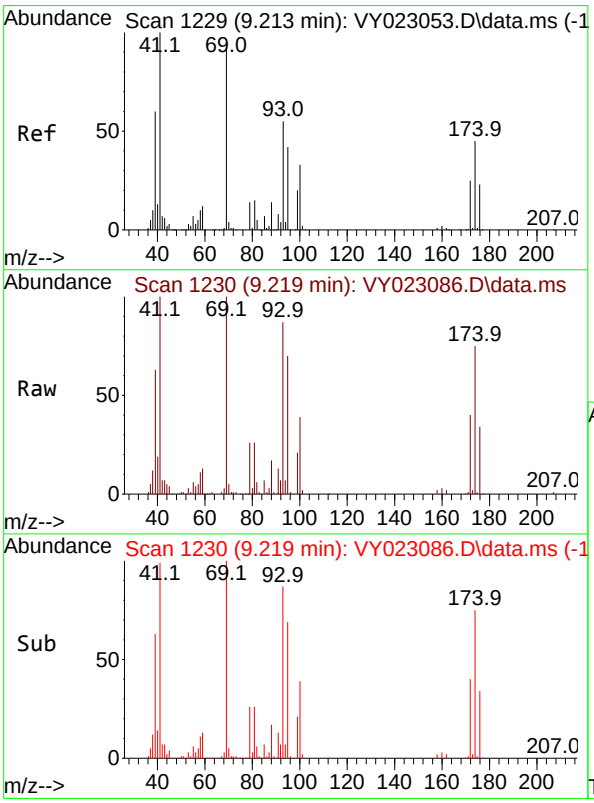
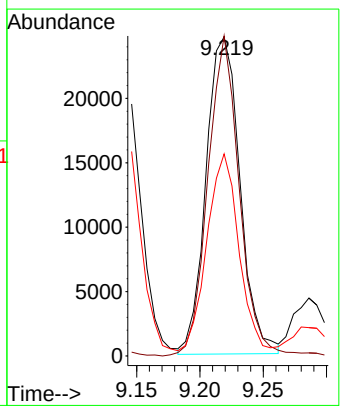
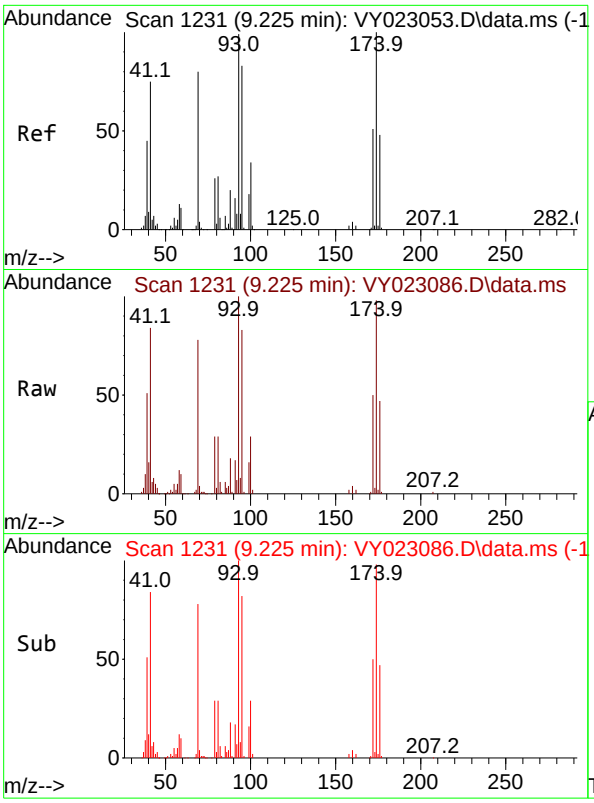



#48
Methyl methacrylate
Concen: 17.327 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 41 Resp: 45987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 93.6 | 73.2 | 109.8 |
| 39 | 58.0 | 47.0 | 70.4 |

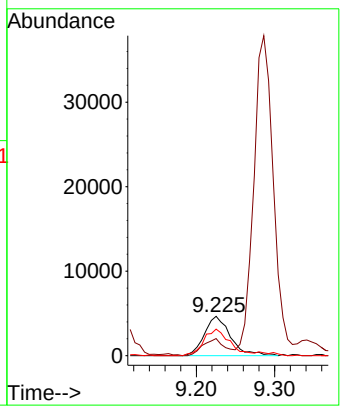





#49
1,4-Dioxane
Concen: 345.913 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 88 Resp: 1078

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 37.3 | 24.3 | 36.5 |
| 58 | 67.2 | 55.4 | 83.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

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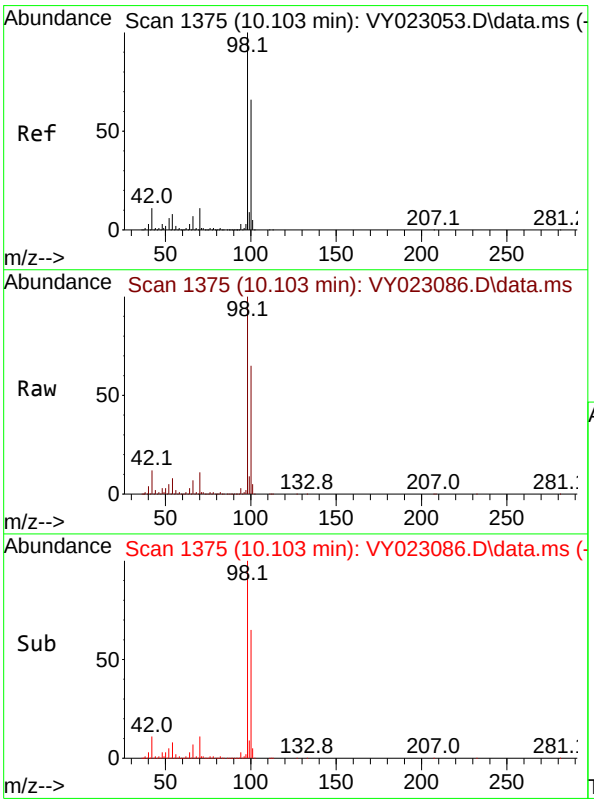
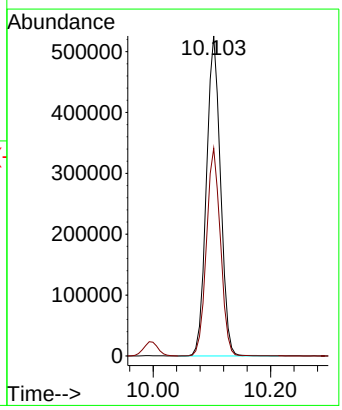
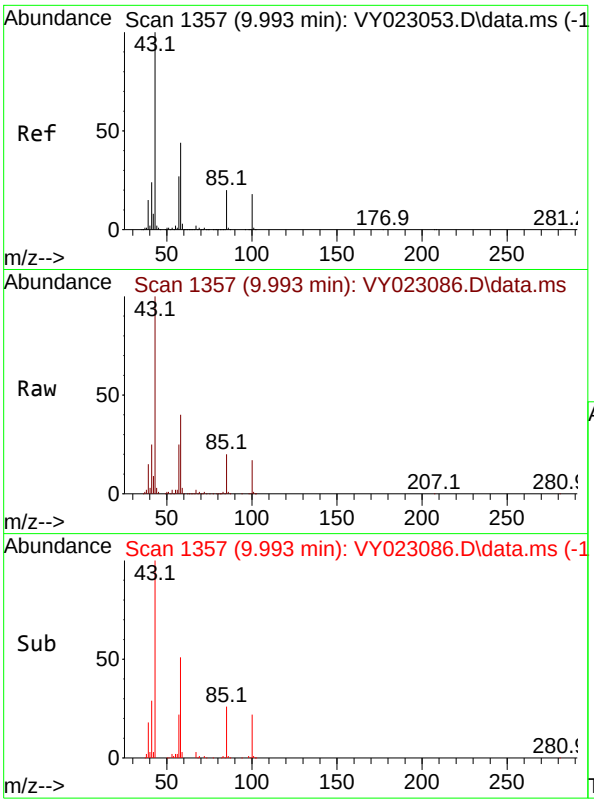



#50
Toluene-d8
Concen: 50.855 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 98 Resp: 873299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.5 | 52.3 | 78.5 |

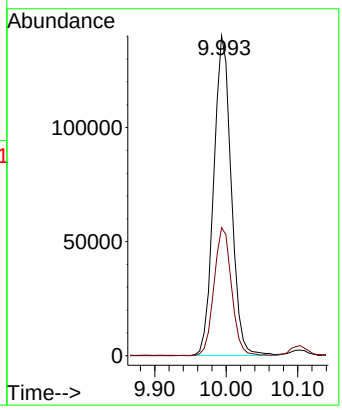





#51
4-Methyl-2-Pentanone
Concen: 83.495 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 43 Resp: 23888

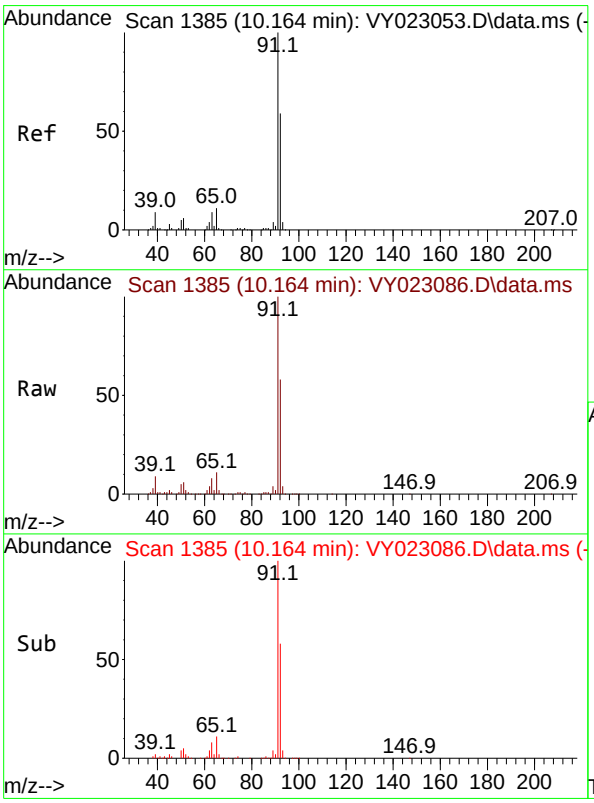
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 40.1 | 33.5 | 50.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations**
**APPROVED**

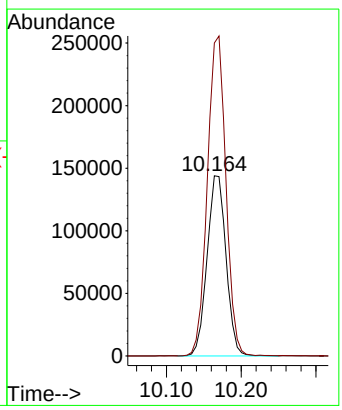
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

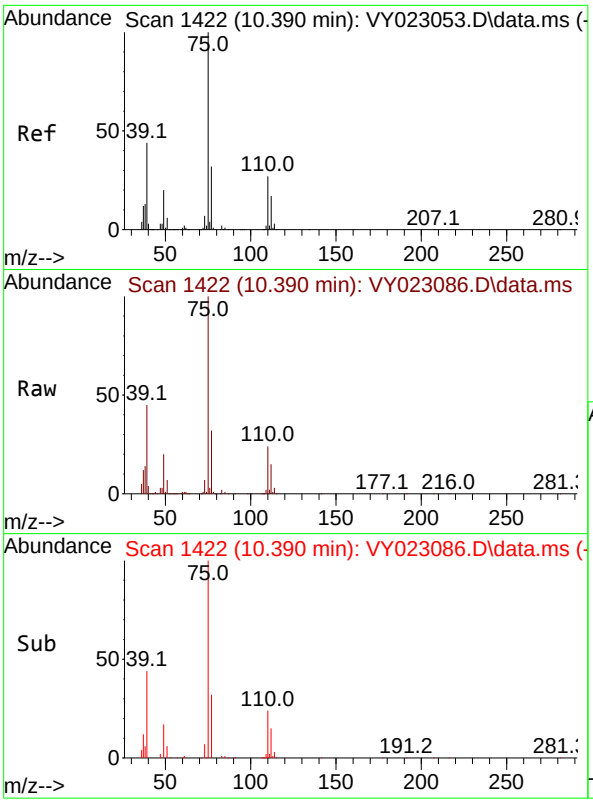



#52
Toluene
Concen: 19.780 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 92 Resp: 252944

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 174.7 | 136.4 | 204.6 |

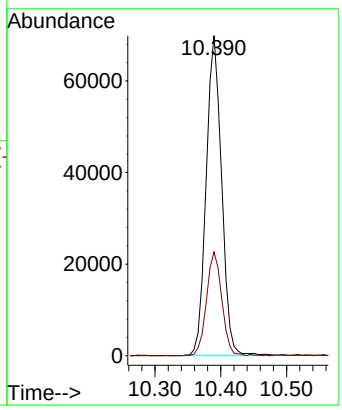





#53
t-1,3-Dichloropropene
Concen: 18.458 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 75 Resp: 11436

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.3 | 25.7 | 38.5 |




**Instrument :**
MSVOA_Y
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VY0814SBS01

**Manual Integrations**
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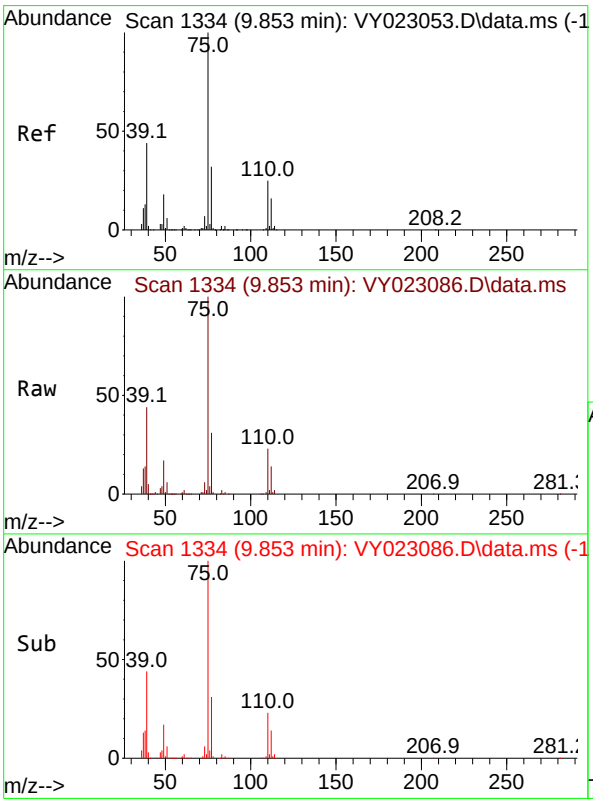
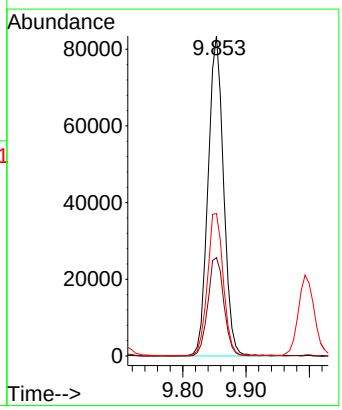
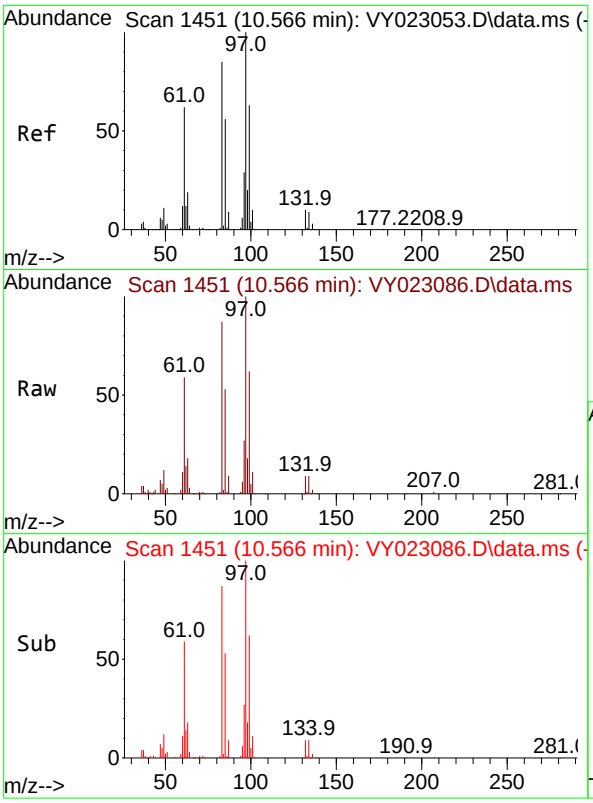



#54
cis-1,3-Dichloropropene
Concen: 19.379 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 75 Resp: 141980

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.7 | 25.4 | 38.0 |
| 39 | 44.3 | 35.6 | 53.4 |

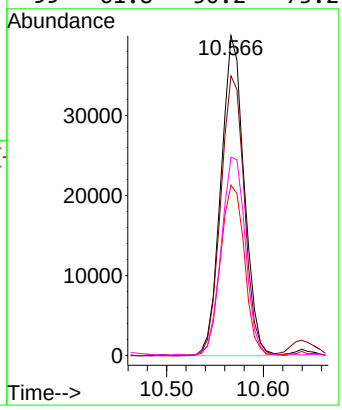





#55
1,1,2-Trichloroethane
Concen: 18.734 ug/l
RT: 10.566 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 97 Resp: 6665

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 87.4 | 67.7 | 101.5 |
| 85 | 53.3 | 44.5 | 66.7 |
| 99 | 61.8 | 50.2 | 75.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations**
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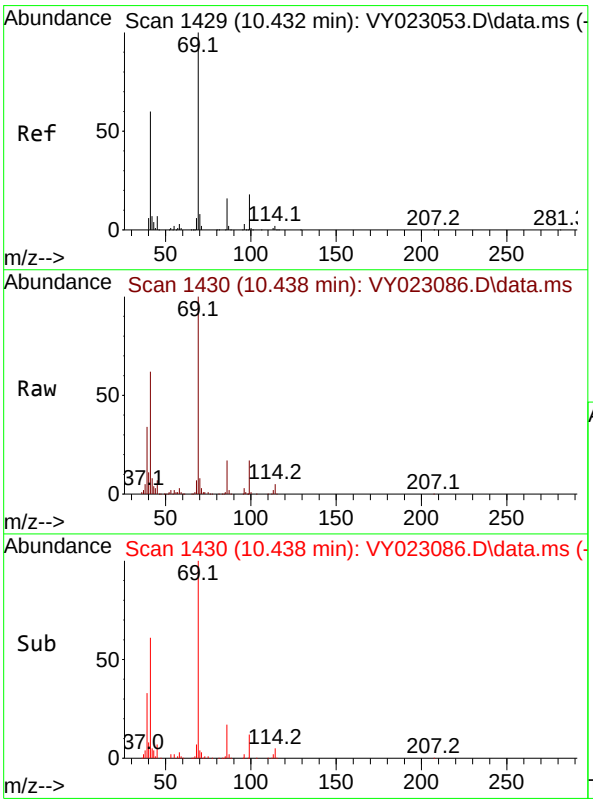
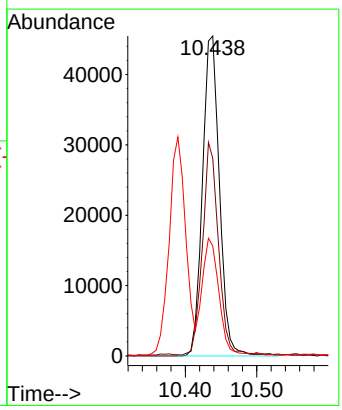
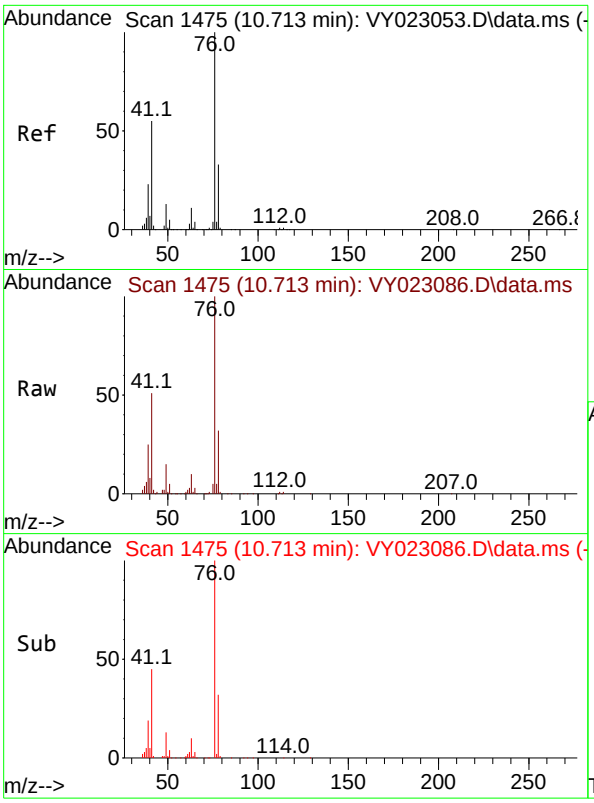



#56
Ethyl methacrylate
Concen: 16.500 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 69 Resp: 75122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 61.9 | 48.6 | 72.8 |
| 39 | 35.1 | 27.0 | 40.4 |

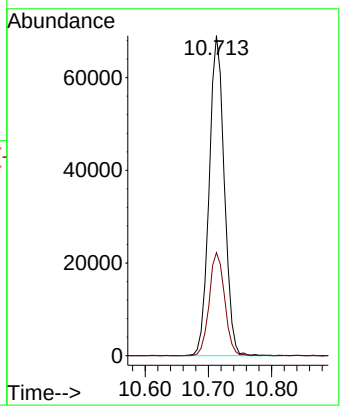





#57
1,3-Dichloropropane
Concen: 19.034 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 76 Resp: 11485

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.7 | 26.0 | 39.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations**
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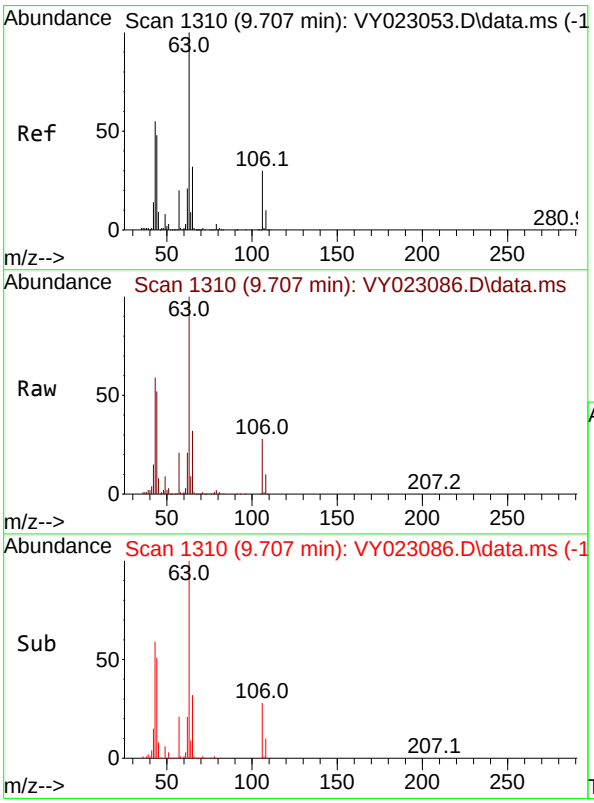
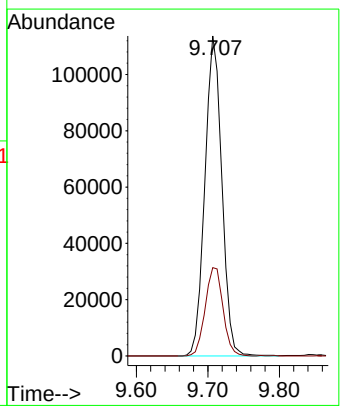
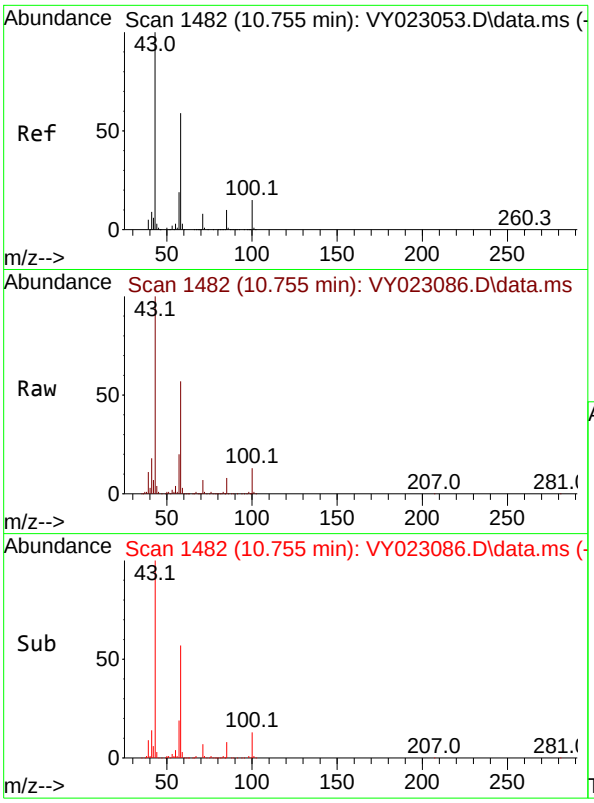



#58
2-Chloroethyl Vinyl ether
Concen: 87.167 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 63 Resp: 187201

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 28.9 | 23.2 | 34.8 |






#59
2-Hexanone
Concen: 81.934 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 43 Resp: 15961

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 57.8 | 29.5 | 88.5 |

**Instrument :**
MSVOA_Y
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VY0814SBS01

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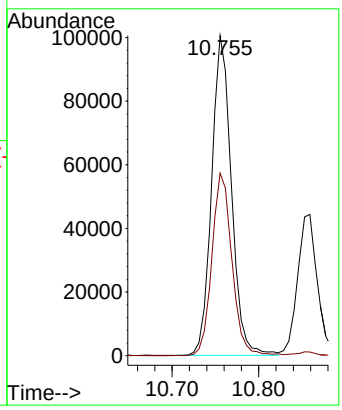
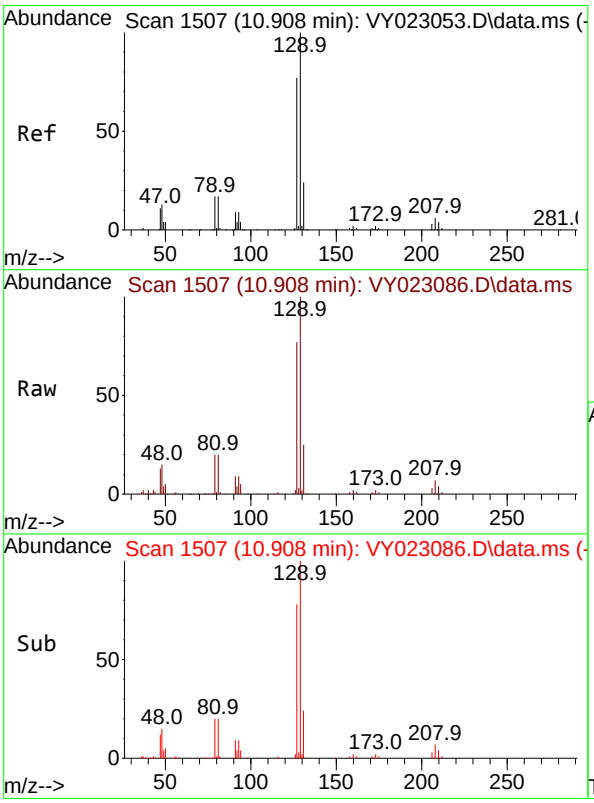
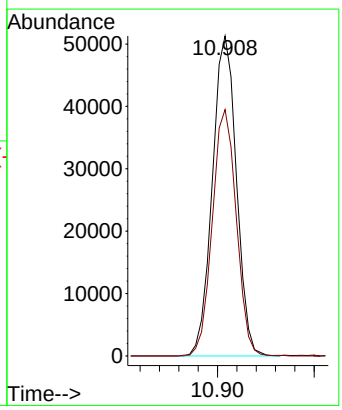


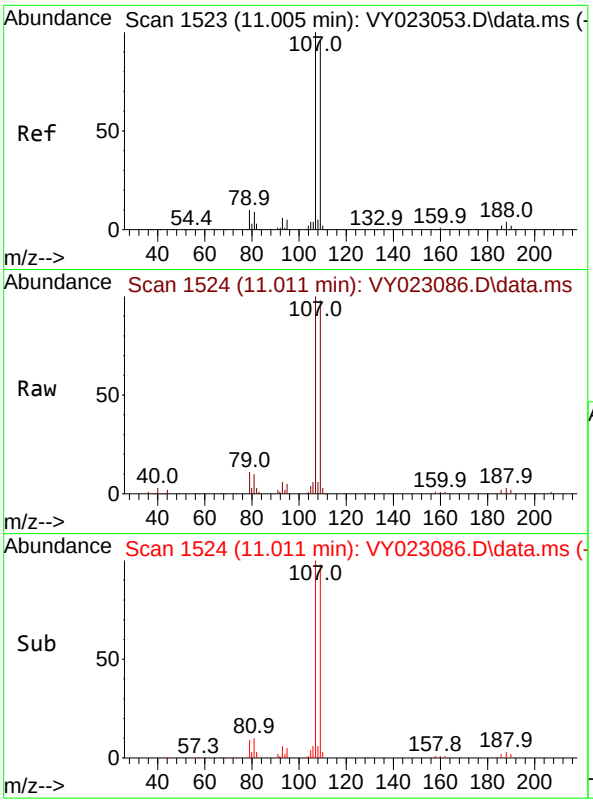




#60
Dibromochloromethane
Concen: 18.819 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:129 Resp: 88354

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 76.8 | 38.5 | 115.5 |

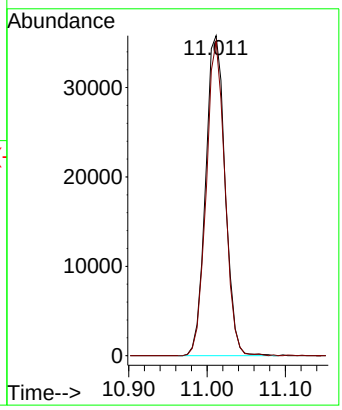





#61
1,2-Dibromoethane
Concen: 18.463 ug/l
RT: 11.011 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:107 Resp: 6174

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.4 | 75.6 | 113.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations**
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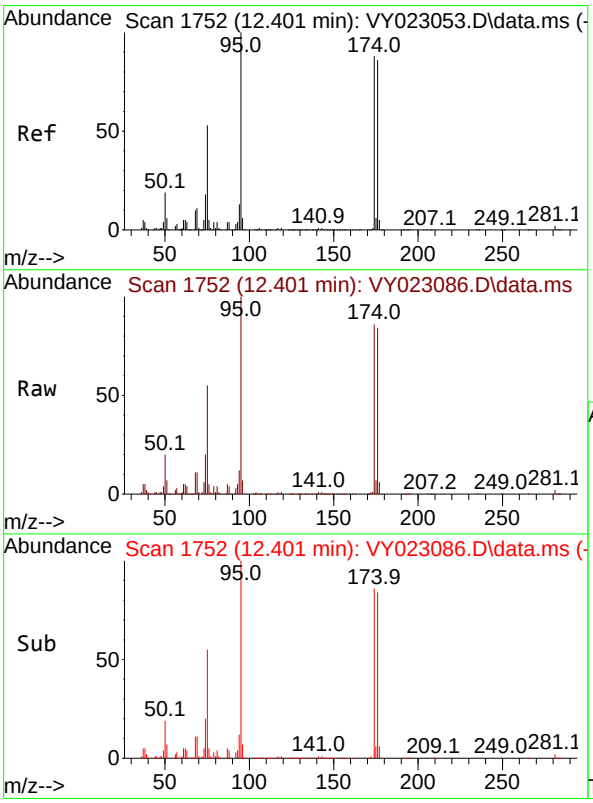
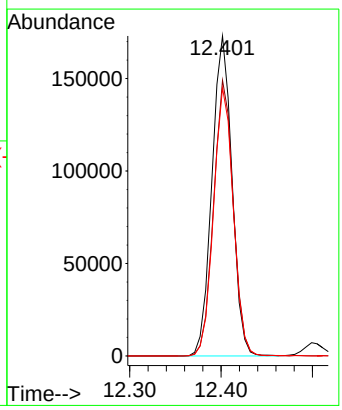
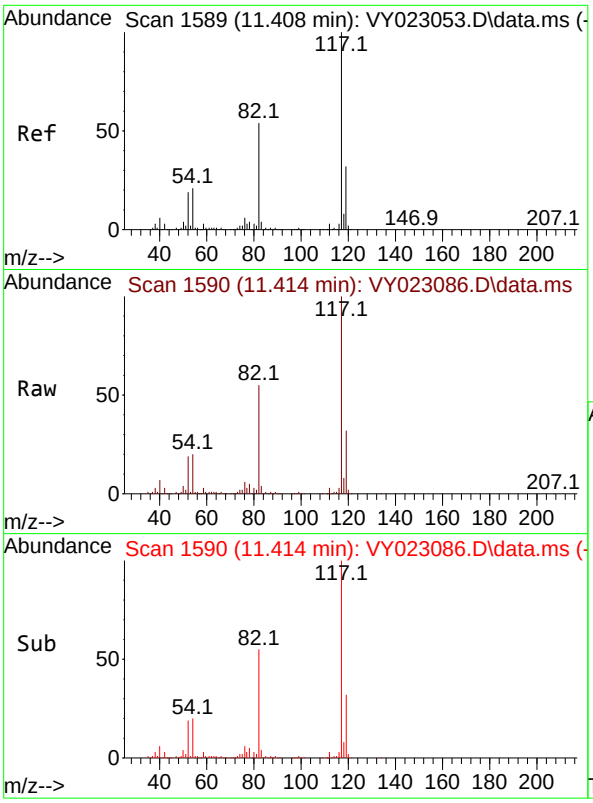



#62
4-Bromofluorobenzene
Concen: 47.657 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 95 Resp: 263190

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 84.7 | 0.0 | 171.6 |
| 176 | 82.8 | 0.0 | 167.6 |

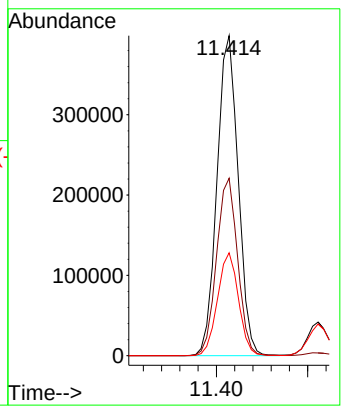





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:117 Resp: 64177

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 55.5 | 43.4 | 65.0 |
| 119 | 32.2 | 25.6 | 38.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations**
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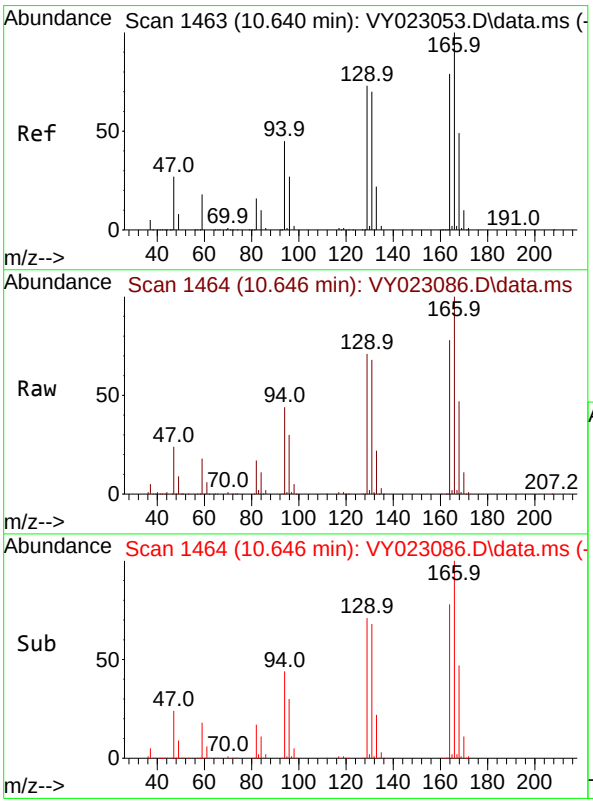
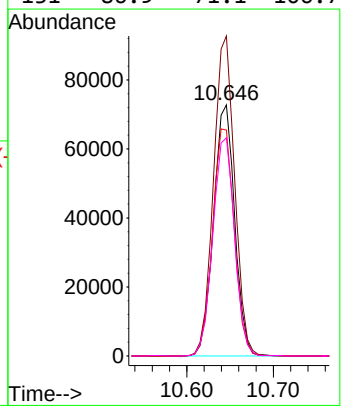
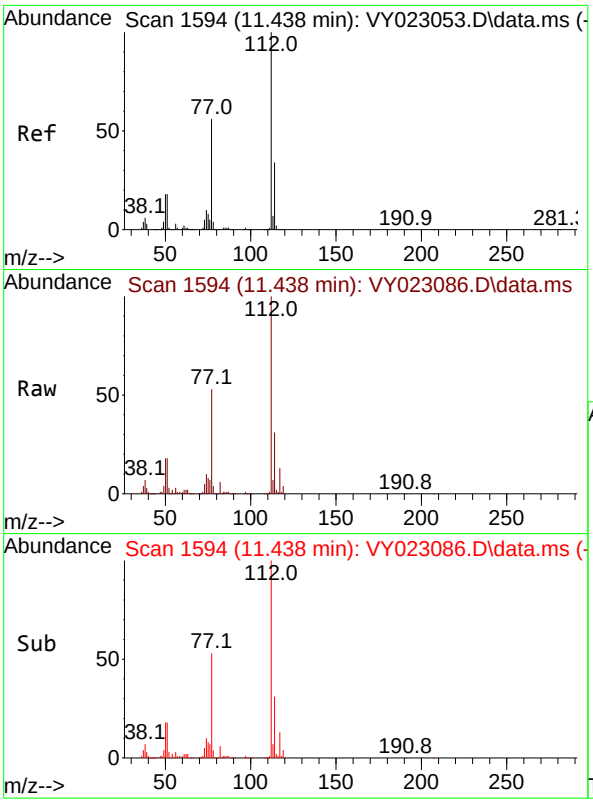



#64
Tetrachloroethene
Concen: 21.538 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:164 Resp: 123429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 127.4 | 101.1 | 151.7 |
| 129 | 90.0 | 74.0 | 111.0 |
| 131 | 86.9 | 71.1 | 106.7 |

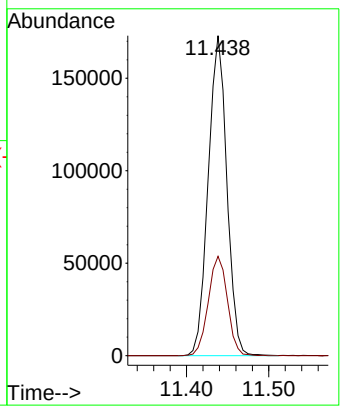





#65
Chlorobenzene
Concen: 19.716 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:112 Resp: 27293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.1 | 27.0 | 40.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations**
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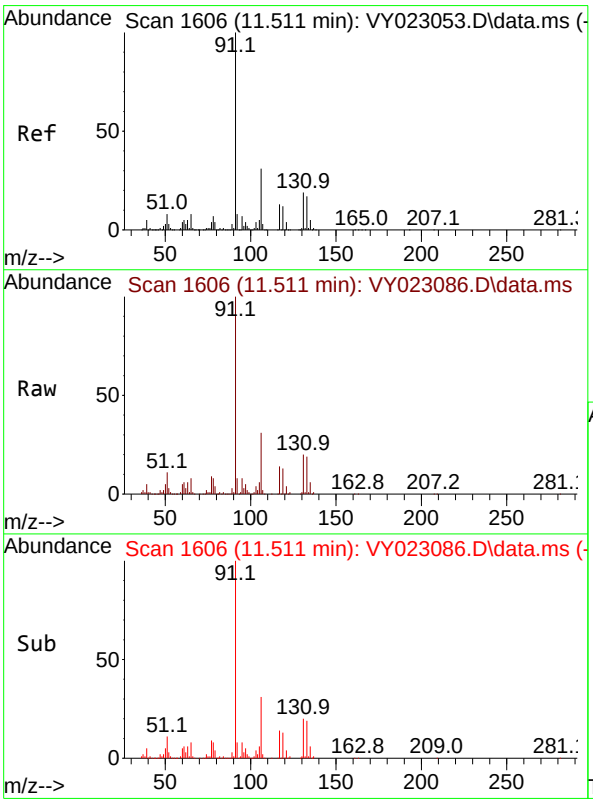
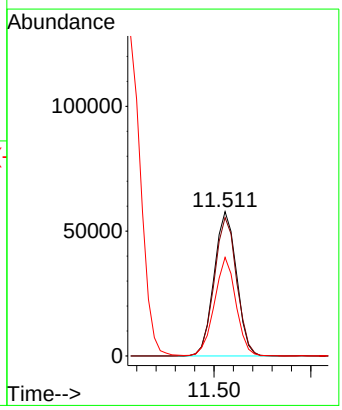
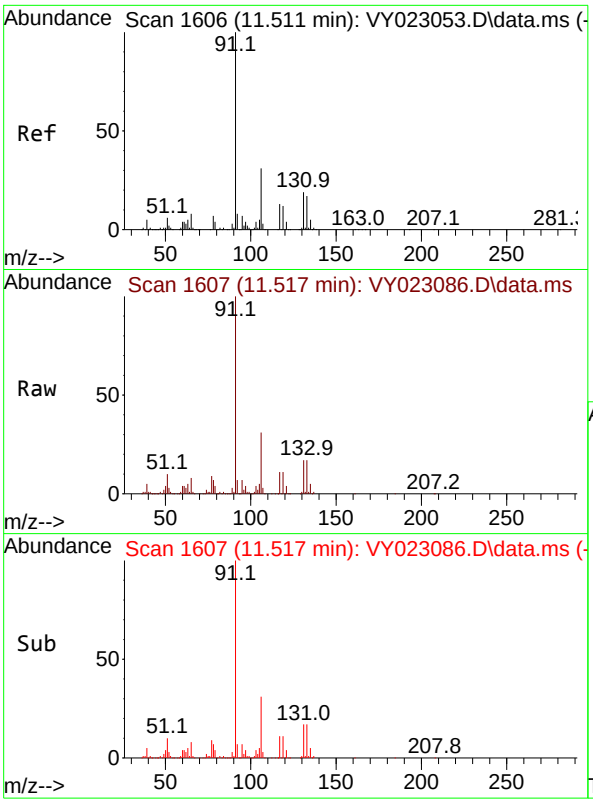



#66
1,1,1,2-Tetrachloroethane
Concen: 19.819 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:131 Resp: 93115

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 96.1 | 46.9 | 140.6 |
| 119 | 65.5 | 33.2 | 99.6 |

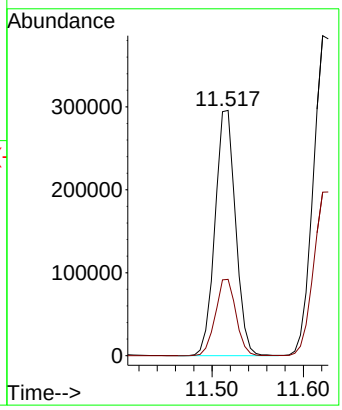





#67
Ethyl Benzene
Concen: 19.391 ug/l
RT: 11.517 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 91 Resp: 46195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.1 | 25.0 | 37.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

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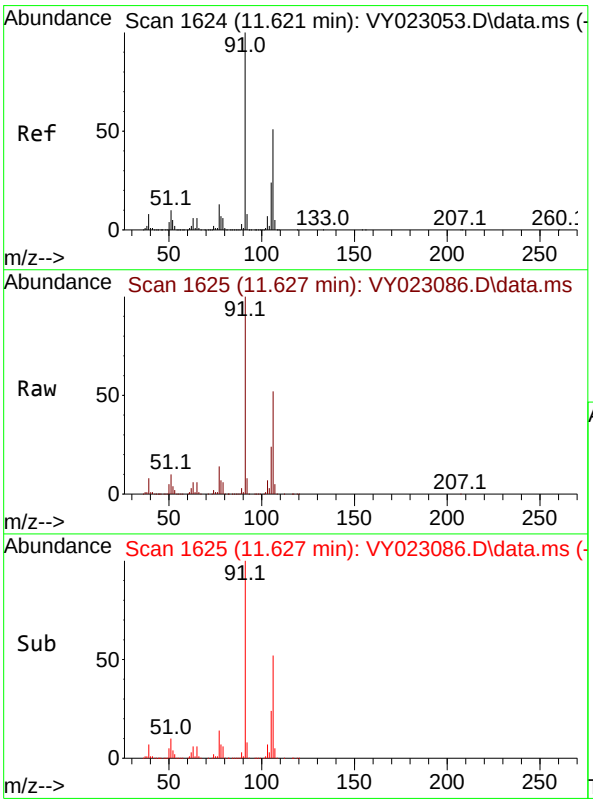
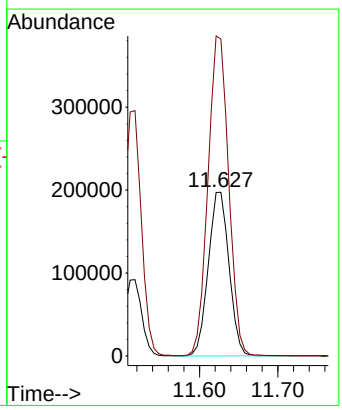
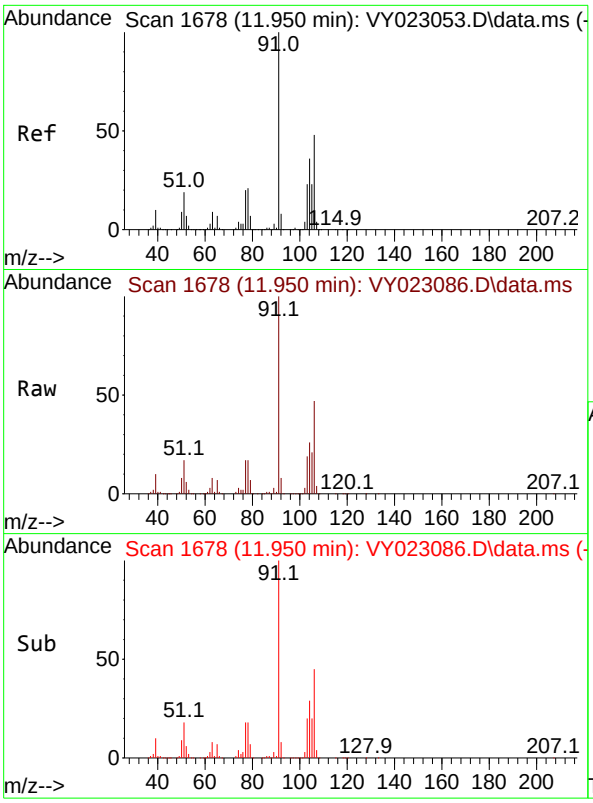



#68
m/p-Xylenes
Concen: 38.921 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:106 Resp: 362129

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 195.1 | 158.6 | 238.0 |






#69
o-Xylene
Concen: 18.990 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

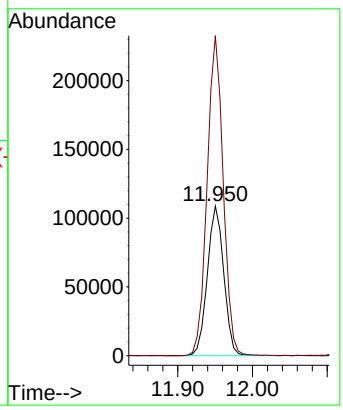
Tgt Ion:106 Resp: 16548

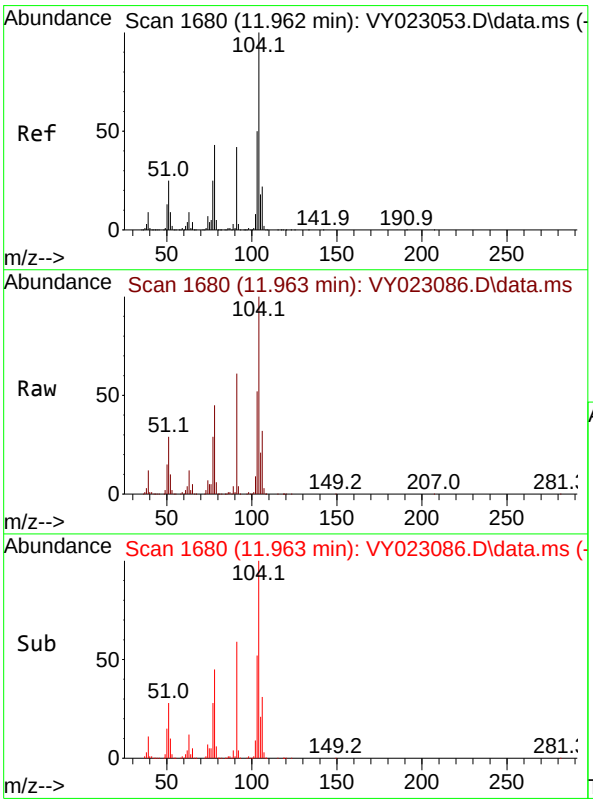
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 210.3 | 103.2 | 309.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

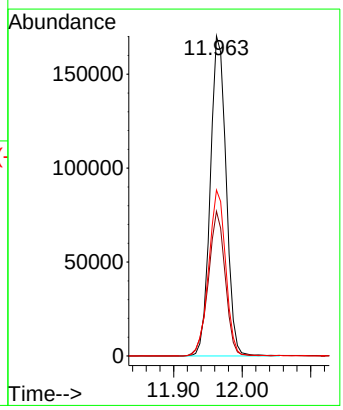


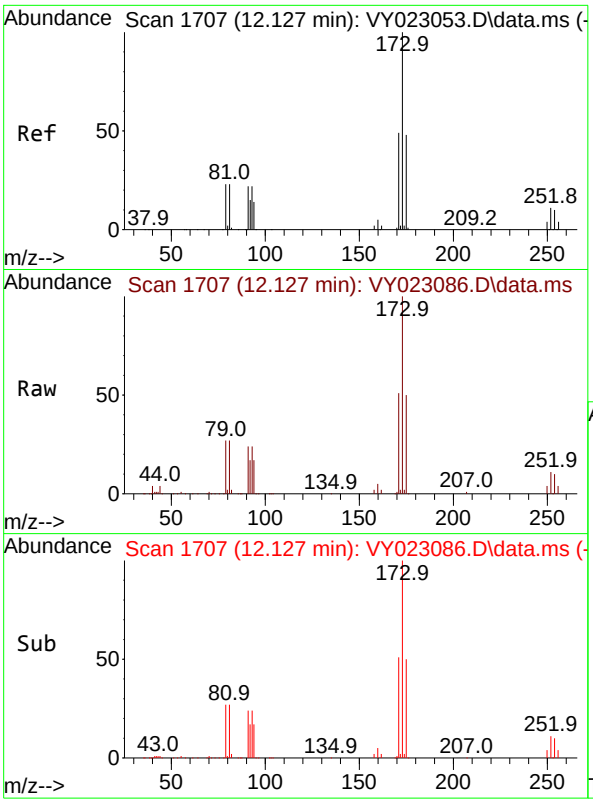




#70
Styrene
Concen: 19.209 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:104 Resp: 273749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 48.1 | 38.5 | 57.7 |
| 103 | 55.5 | 43.7 | 65.5 |

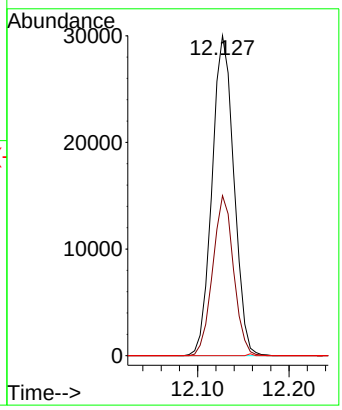





#71
Bromoform
Concen: 18.159 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:173 Resp: 4986

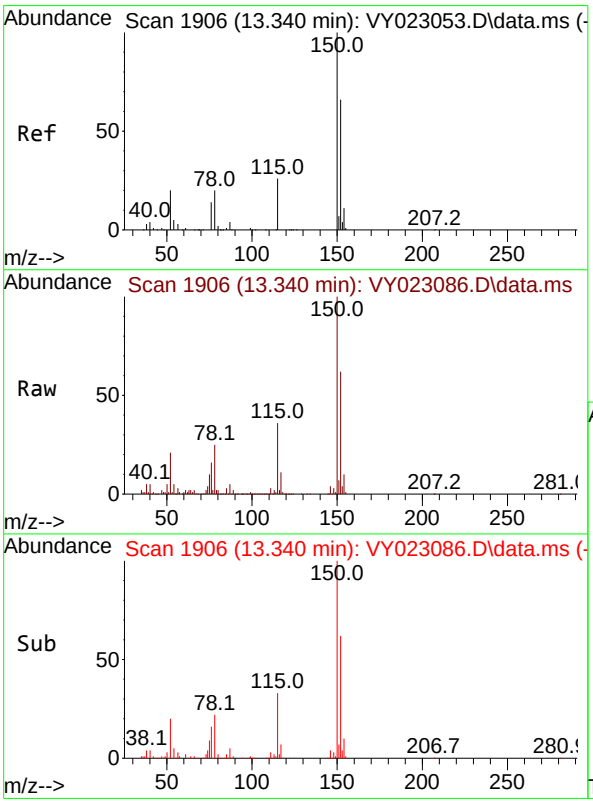
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.7 | 23.9 | 71.7 |
| 254 | 0.0 | 0.1 | 0.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations**
**APPROVED**

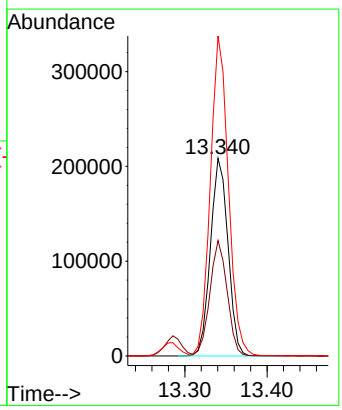
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

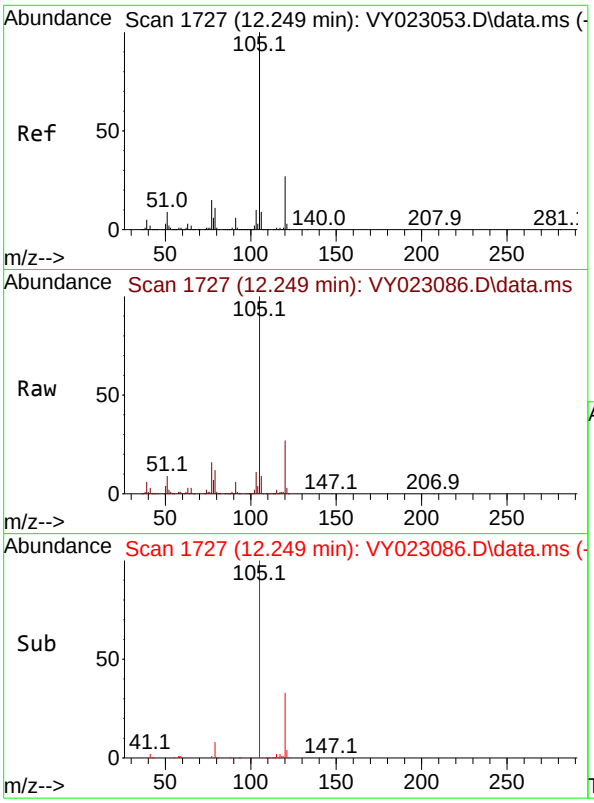



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:152 Resp: 309825

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.4 | 28.2 | 84.6 |
| 150 | 166.2 | 0.0 | 348.0 |

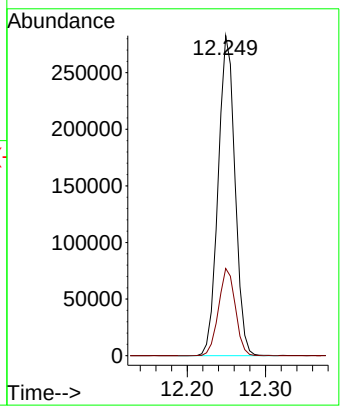





#73
Isopropylbenzene
Concen: 19.345 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:105 Resp: 42302

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.1 | 13.4 | 40.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations**
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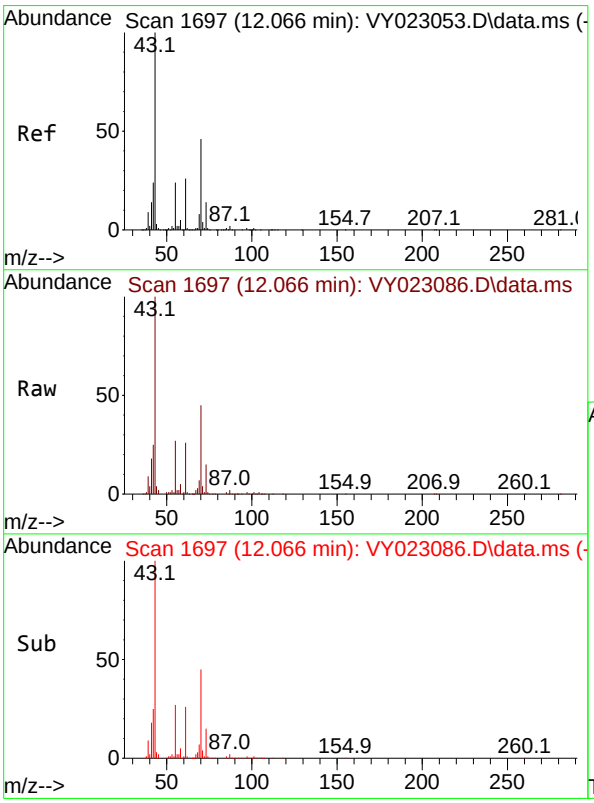
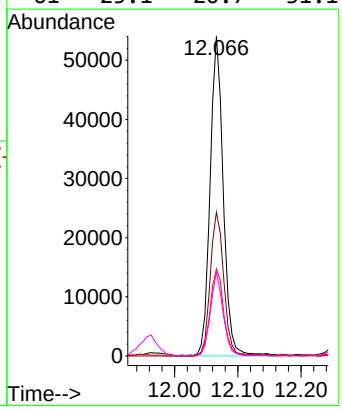
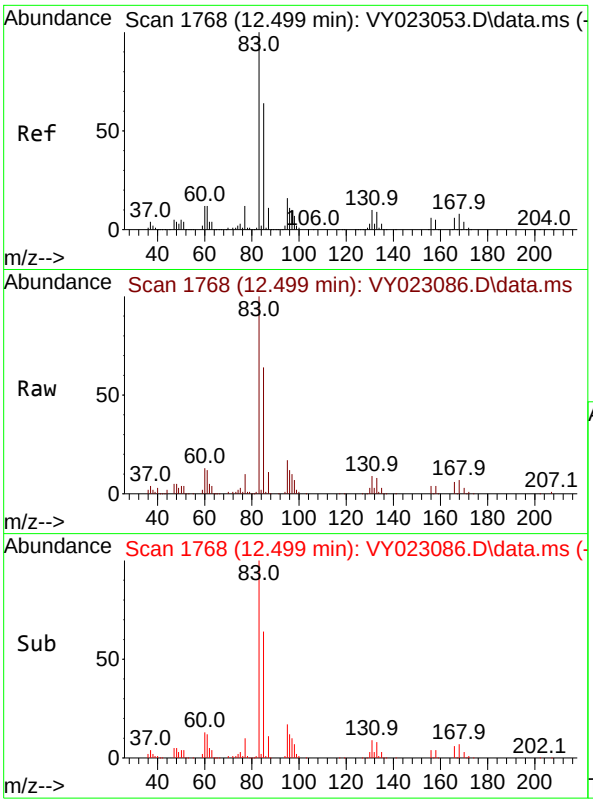



#74
N-amyl acetate
Concen: 16.952 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 43 Resp: 78613

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 46.5 | 37.5 | 56.3 |
| 55 | 28.0 | 20.7 | 31.1 |
| 61 | 25.1 | 20.7 | 31.1 |






#75
1,1,2,2-Tetrachloroethane
Concen: 17.181 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 83 Resp: 6415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.8 | 5.1 | 15.3 |
| 85 | 68.5 | 31.8 | 95.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations**
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Reviewed By :Semsettin Yesilyurt 08/19/2025
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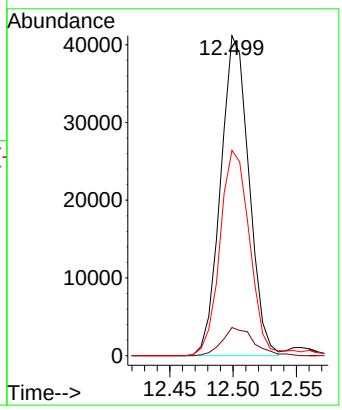
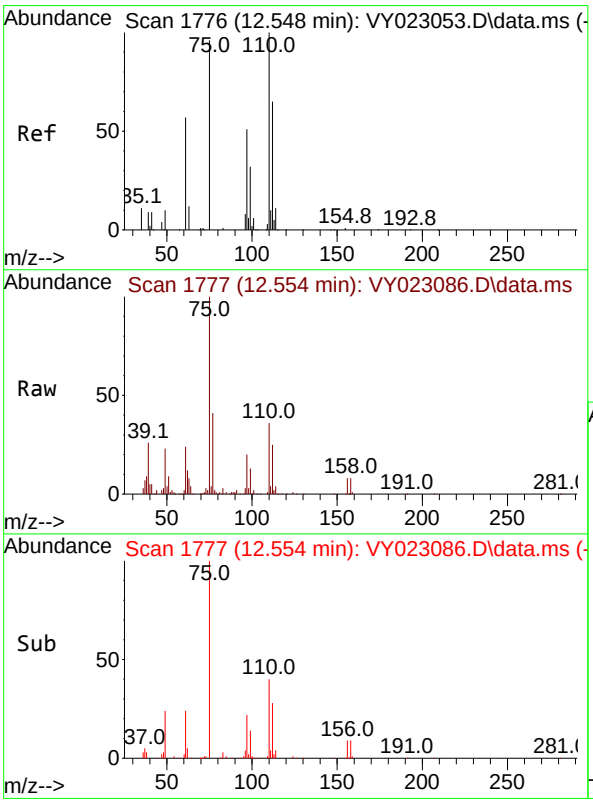
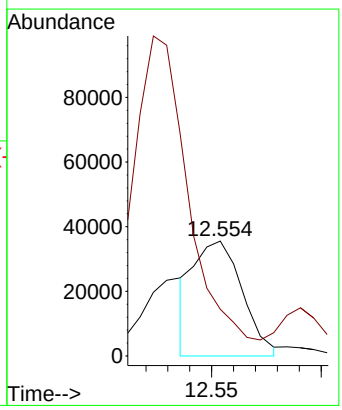


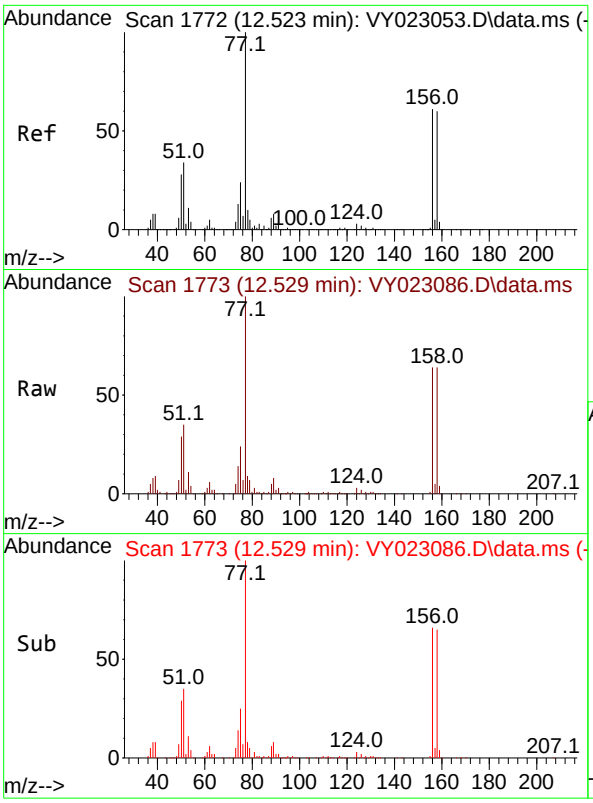




#76
1,2,3-Trichloropropane
Concen: 18.387 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 75 Resp: 54979

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |

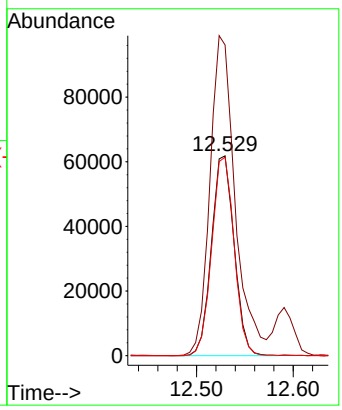





#77
Bromobenzene
Concen: 19.332 ug/l
RT: 12.529 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:156 Resp: 10085

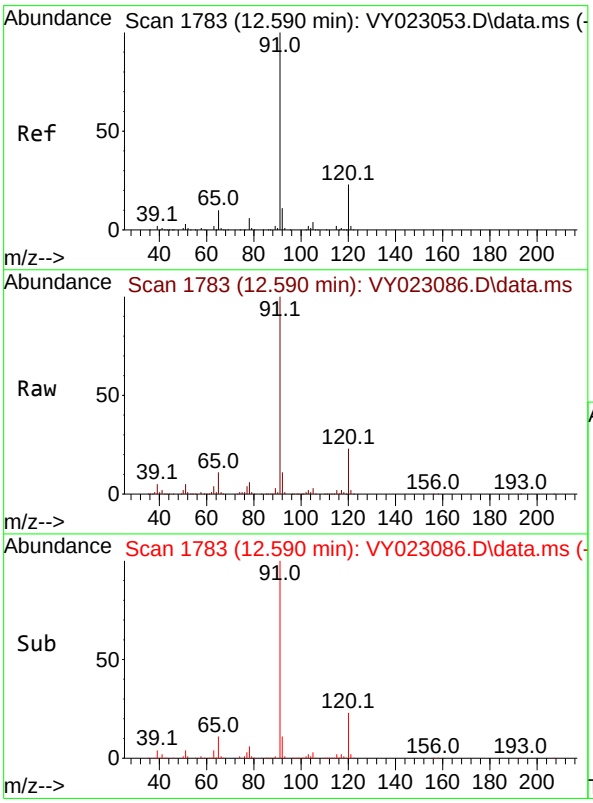
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 178.0 | 88.1 | 264.4 |
| 158 | 98.1 | 48.0 | 144.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations**
**APPROVED**

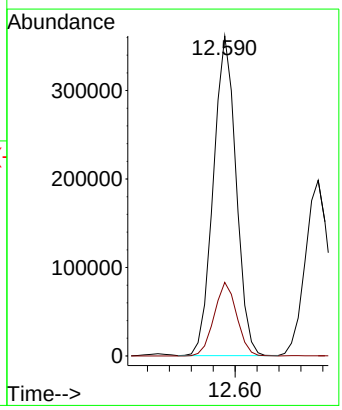
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

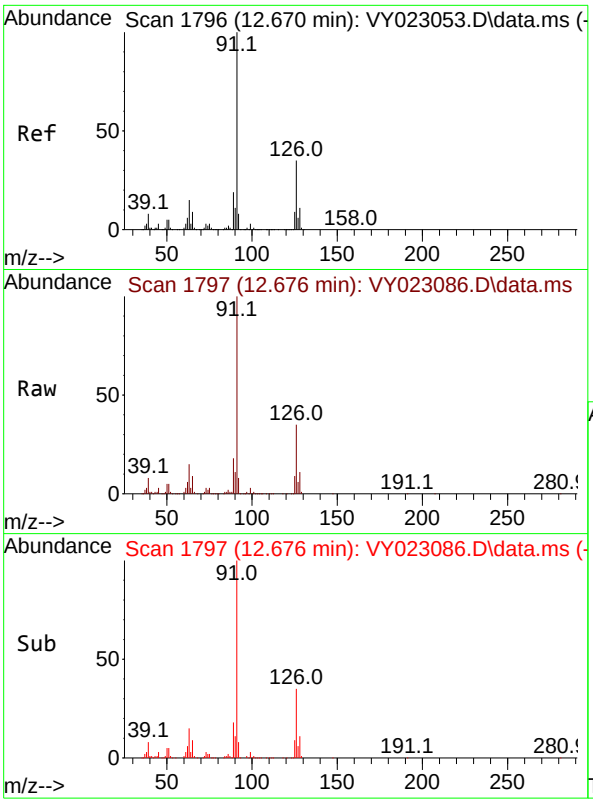



#78
n-propylbenzene
Concen: 20.001 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 91 Resp: 520711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.9 | 11.5 | 34.5 |

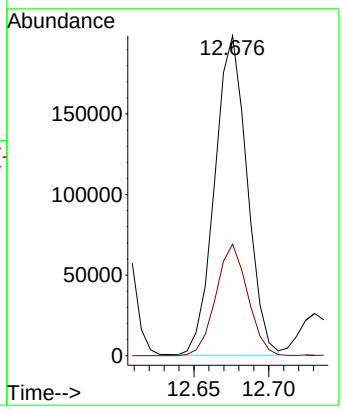





#79
2-Chlorotoluene
Concen: 19.962 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 91 Resp: 29776

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.3 | 17.4 | 52.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations**
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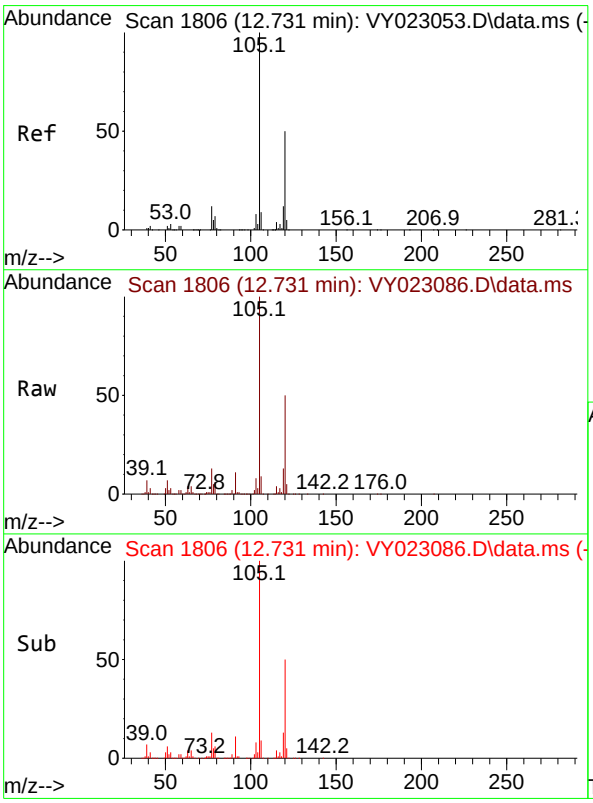
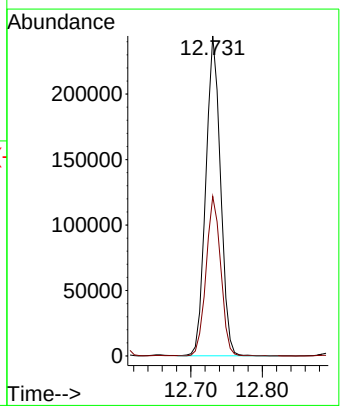
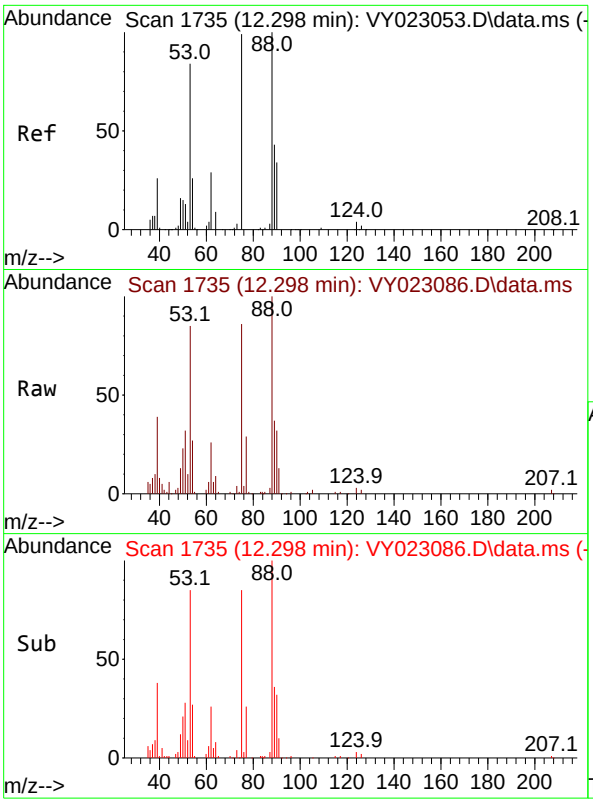



#80
1,3,5-Trimethylbenzene
Concen: 19.731 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:105 Resp: 348710

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.6 | 24.8 | 74.4 |






#81
trans-1,4-Dichloro-2-butene
Concen: 17.398 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 75 Resp: 2149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 93.8 | 70.8 | 106.2 |
| 89 | 43.7 | 38.1 | 57.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations**
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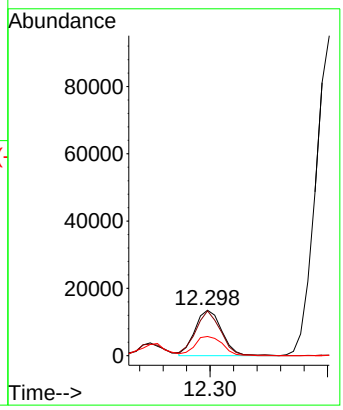
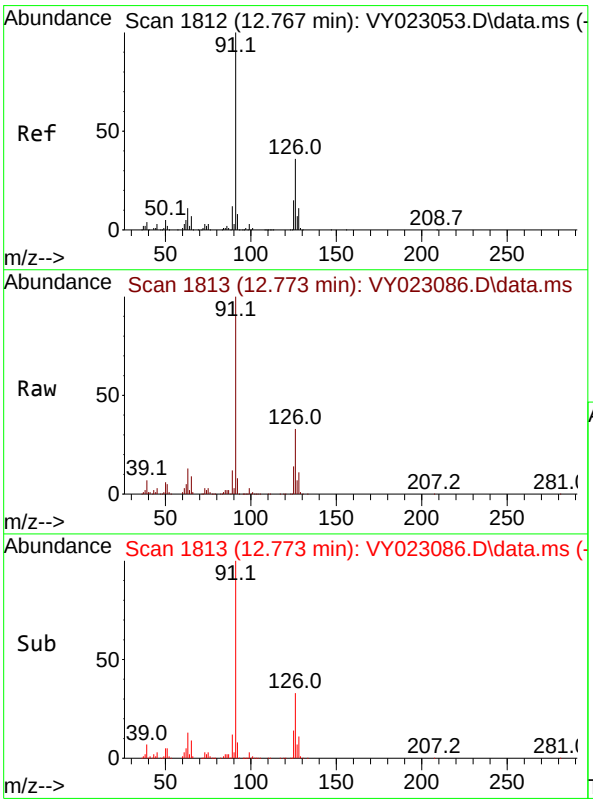
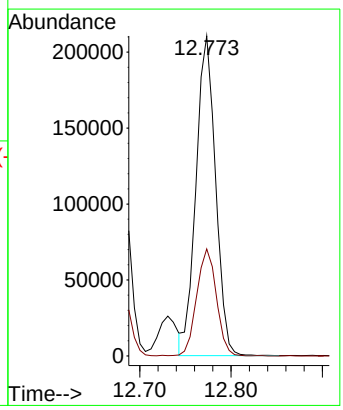


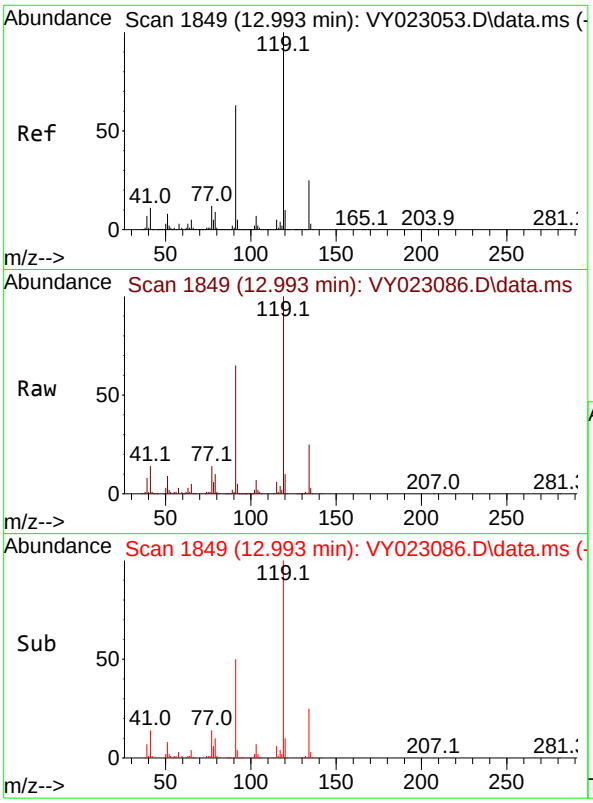




#82
4-Chlorotoluene
Concen: 20.205 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 91 Resp: 312655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.7 | 17.3 | 52.0 |

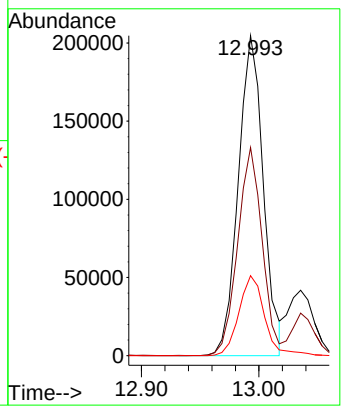





#83
tert-Butylbenzene
Concen: 18.997 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:119 Resp: 30322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 63.5 | 31.6 | 94.8 |
| 134 | 25.8 | 12.9 | 38.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations**
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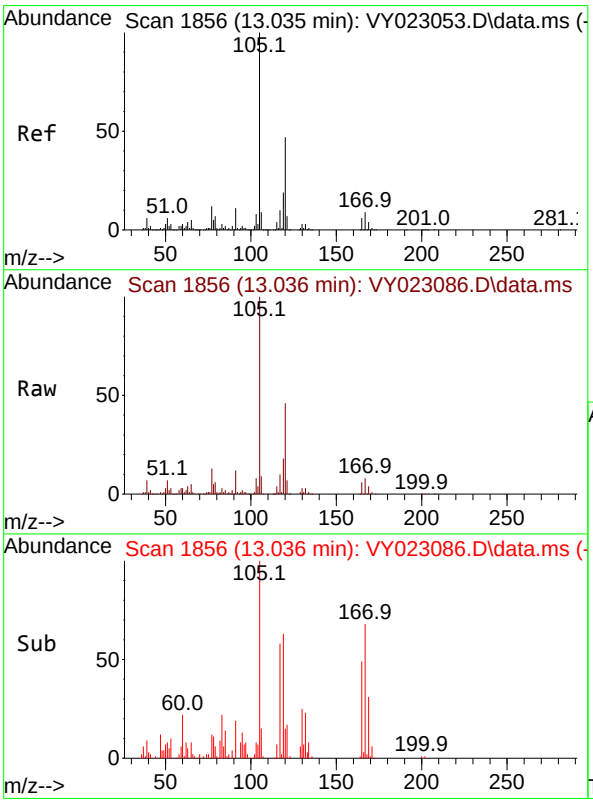
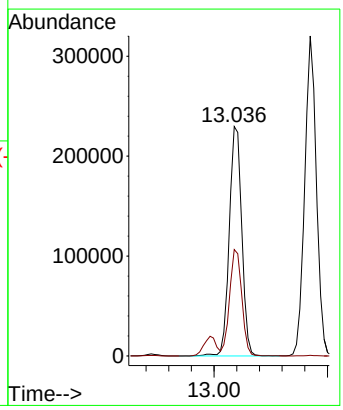
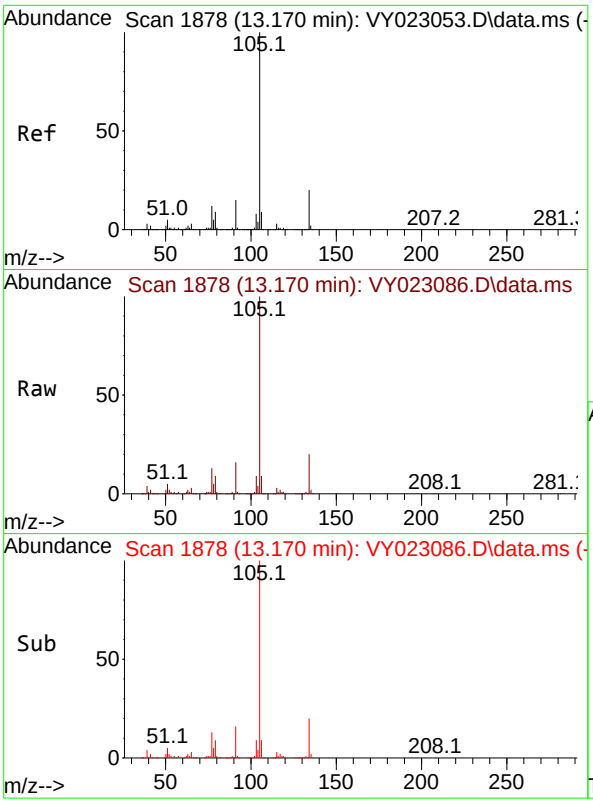



#84
1,2,4-Trimethylbenzene
Concen: 19.952 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:105 Resp: 351003

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.2 | 23.0 | 69.0 |

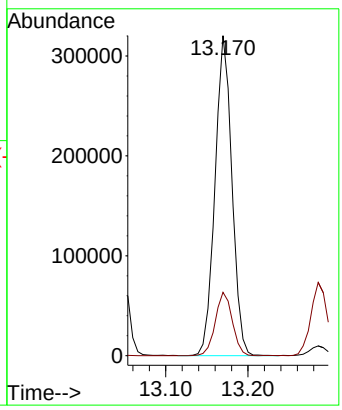





#85
sec-Butylbenzene
Concen: 19.534 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:105 Resp: 45802

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.9 | 10.2 | 30.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations**
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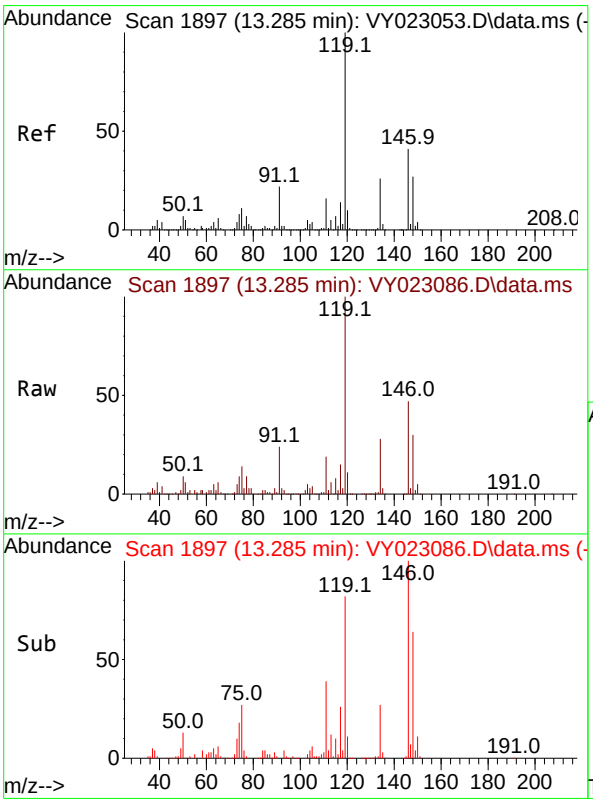
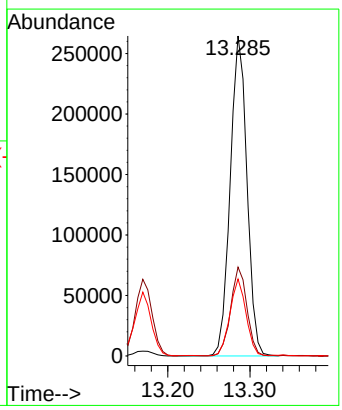
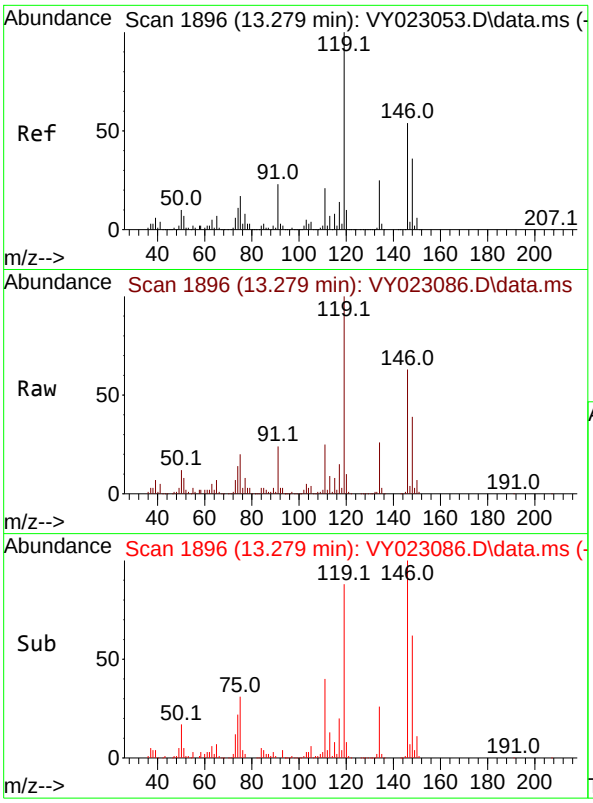



#86
p-Isopropyltoluene
Concen: 19.240 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:119 Resp: 374466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.9 | 13.2 | 39.6 |
| 91 | 23.1 | 11.3 | 33.8 |

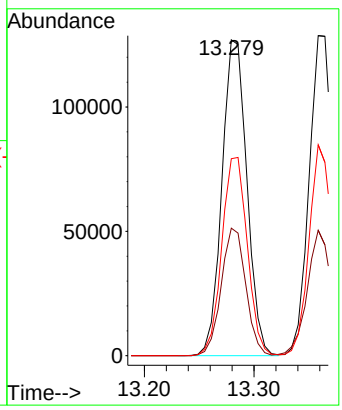





#87
1,3-Dichlorobenzene
Concen: 19.525 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:146 Resp: 20086

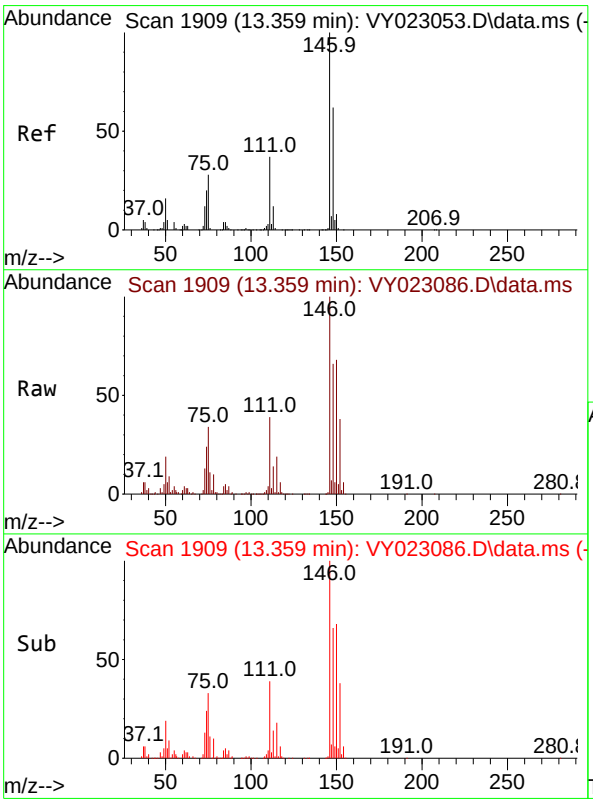
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.8 | 19.6 | 58.7 |
| 148 | 64.2 | 32.5 | 97.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations**
**APPROVED**

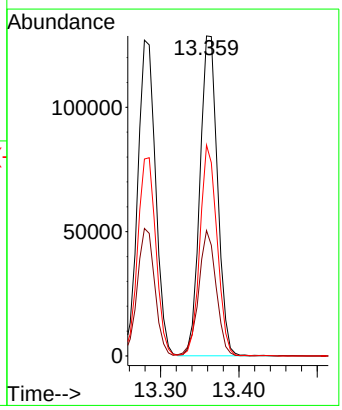
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

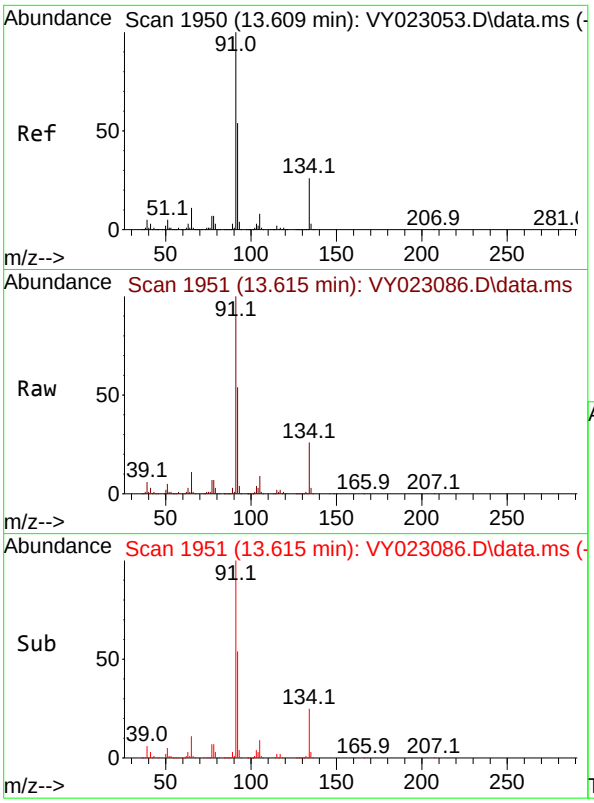



#88
1,4-Dichlorobenzene
Concen: 19.626 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:146 Resp: 200293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.2 | 19.1 | 57.1 |
| 148 | 64.3 | 31.6 | 94.7 |

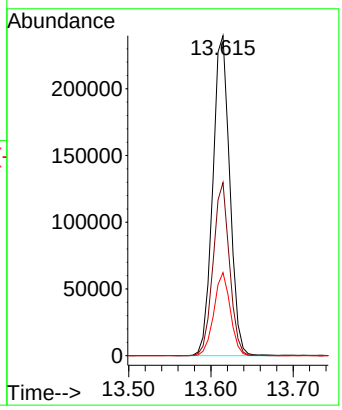





#89
n-Butylbenzene
Concen: 19.289 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 91 Resp: 34479

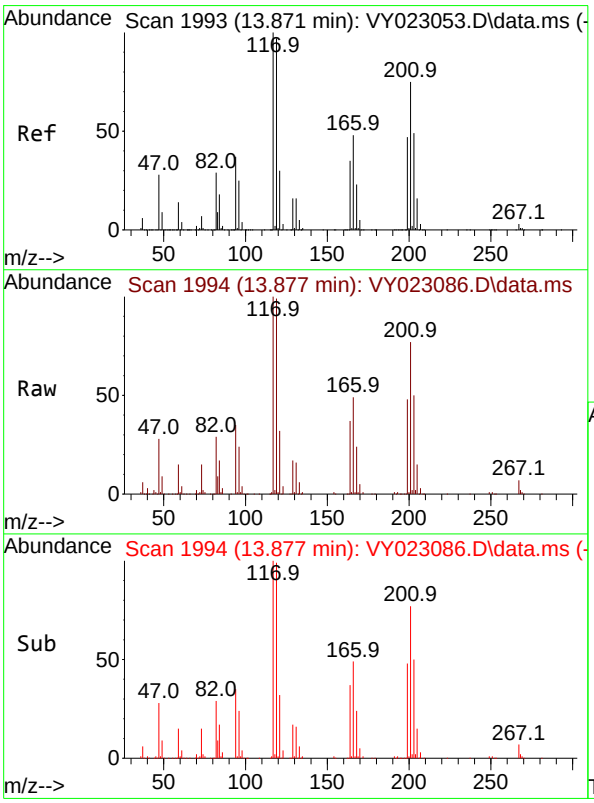
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.1 | 26.9 | 80.7 |
| 134 | 25.1 | 13.2 | 39.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations**
**APPROVED**

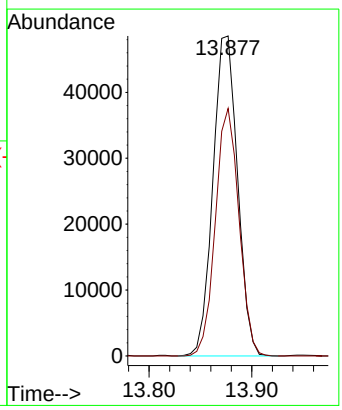
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

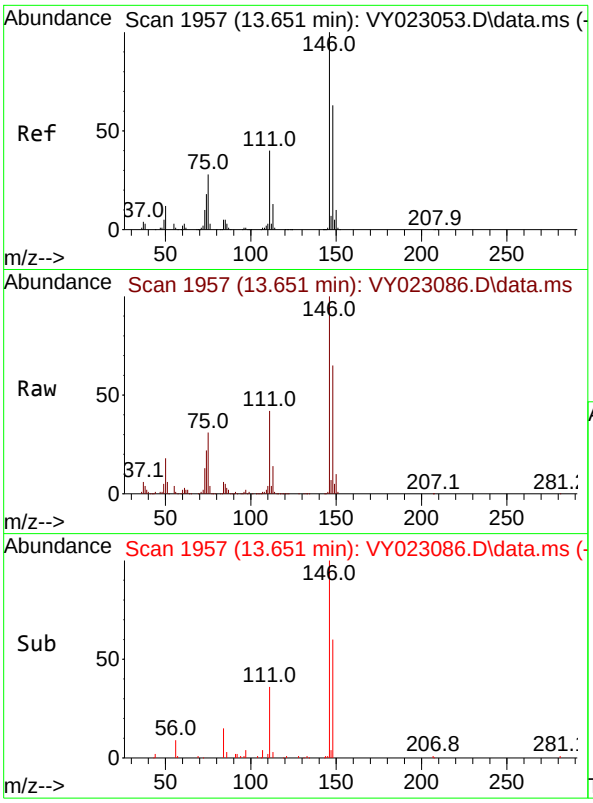



#90
Hexachloroethane
Concen: 20.252 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:117 Resp: 80689

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 74.1 | 38.4 | 115.1 |

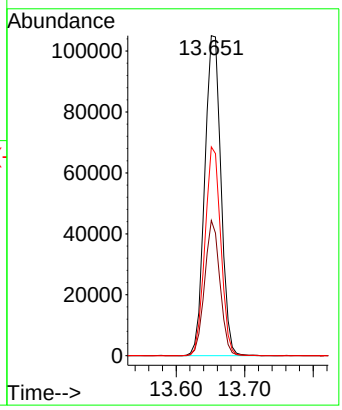





#91
1,2-Dichlorobenzene
Concen: 19.158 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:146 Resp: 17285

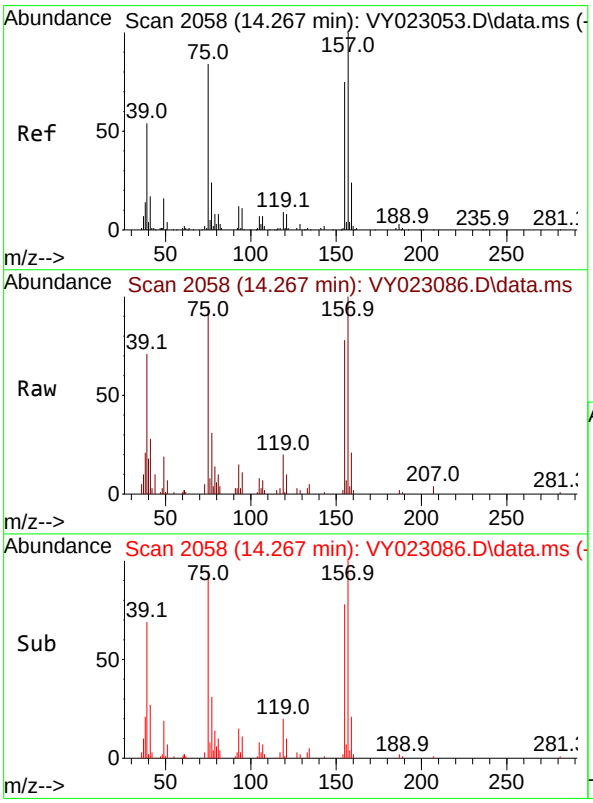
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.0 | 20.3 | 60.8 |
| 148 | 63.6 | 32.2 | 96.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations**
**APPROVED**

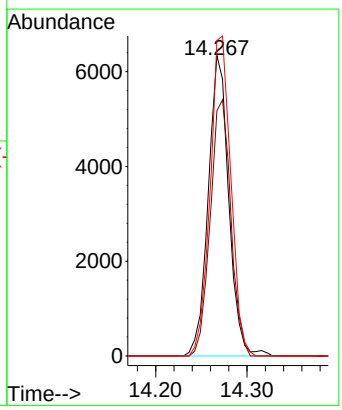
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

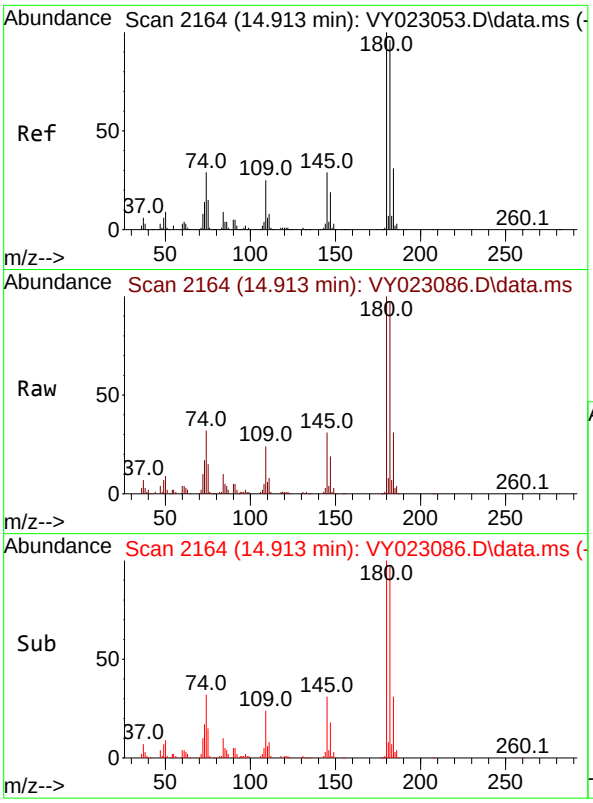



#92
1,2-Dibromo-3-Chloropropane
Concen: 16.982 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 75 Resp: 9872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 85.7 | 43.9 | 131.6 |
| 157 | 107.5 | 57.2 | 171.6 |

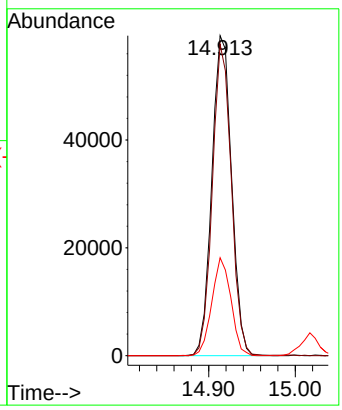





#93
1,2,4-Trichlorobenzene
Concen: 17.602 ug/l
RT: 14.913 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:180 Resp: 9391

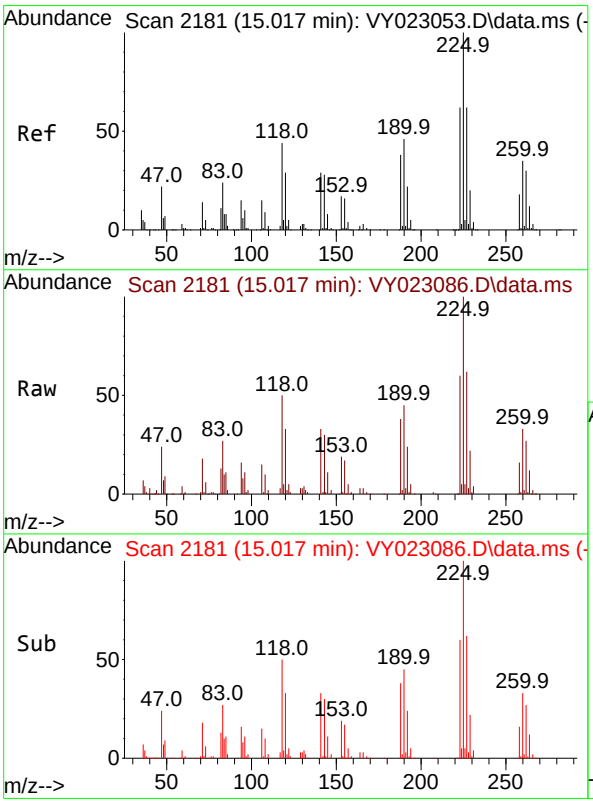
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.2 | 46.8 | 140.4 |
| 145 | 29.7 | 14.4 | 43.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations**
**APPROVED**

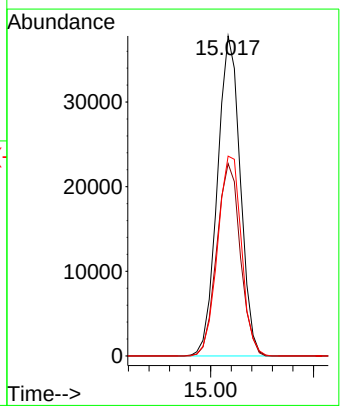
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025

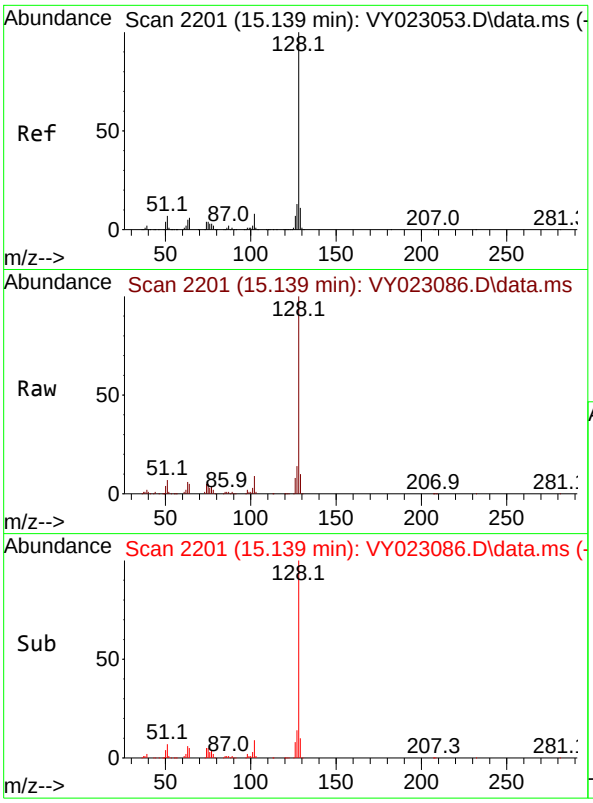



#94
Hexachlorobutadiene
Concen: 18.595 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:225 Resp: 58299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 61.8 | 31.3 | 93.8 |
| 227 | 65.2 | 31.5 | 94.5 |

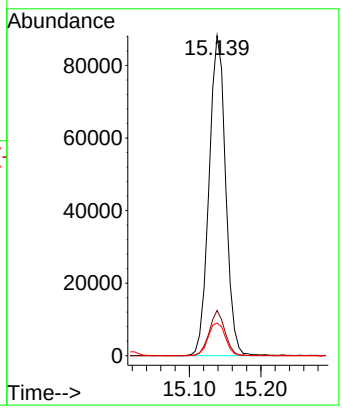





#95
Naphthalene
Concen: 15.638 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:128 Resp: 14227

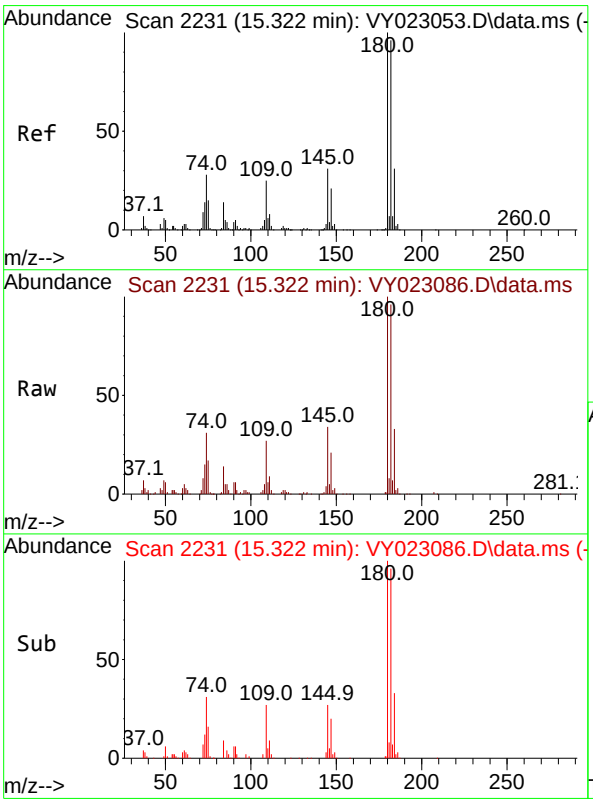
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.3 | 10.4 | 15.6 |
| 129 | 10.7 | 9.0 | 13.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

**Manual Integrations**
**APPROVED**

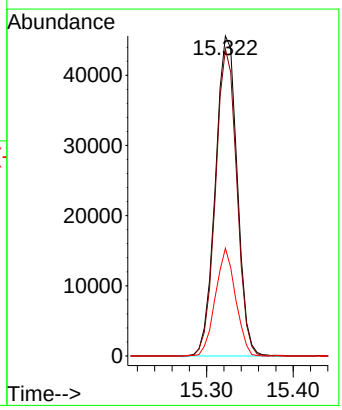
Reviewed By :Semsettin Yesilyurt 08/19/2025
Supervised By :Mahesh Dadoda 08/19/2025




#96
1,2,3-Trichlorobenzene
Concen: 17.308 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:180 Resp: 79576

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.6 | 47.9 | 143.7 |
| 145 | 31.2 | 15.9 | 47.7 |



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | |
| Project: | USACE018-44 DOD | Date Received: | |
| Client Sample ID: | VY0819SBS01 | SDG No.: | Q2819 |
| Lab Sample ID: | VY0819SBS01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023139.D | 1 | 08/19/25 10:19 | VY081925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 20.7 | | 1.10 | 4.00 | 5.00 | ug/Kg |
| 74-87-3 | Chloromethane | 20.2 | | 1.10 | 2.50 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 20.6 | | 0.79 | 2.50 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 23.2 | | 1.10 | 4.00 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 20.8 | | 1.30 | 2.50 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 20.0 | | 1.20 | 4.00 | 5.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 21.5 | | 1.10 | 2.50 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 20.8 | | 1.00 | 2.50 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 110 | | 4.70 | 20.0 | 25.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 19.9 | | 1.10 | 4.00 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 19.7 | | 0.73 | 2.50 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 17.4 | | 1.50 | 4.00 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 18.9 | | 3.50 | 8.00 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 21.0 | | 0.86 | 2.50 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 20.0 | | 0.80 | 2.50 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 19.6 | | 0.79 | 2.50 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 100 | | 6.50 | 20.0 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 21.4 | | 0.97 | 2.50 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 20.6 | | 0.75 | 2.50 | 5.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 19.5 | | 1.20 | 4.00 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 20.7 | | 0.84 | 4.00 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 20.8 | | 0.93 | 2.50 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 20.8 | | 0.91 | 2.50 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 21.1 | | 0.79 | 2.50 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 20.2 | | 0.79 | 2.50 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 21.2 | | 0.81 | 2.50 | 5.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 20.5 | | 0.91 | 2.50 | 5.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 20.7 | | 0.78 | 2.50 | 5.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 93.7 | | 3.60 | 12.5 | 25.0 | ug/Kg |
| 108-88-3 | Toluene | 21.0 | | 0.78 | 2.50 | 5.00 | ug/Kg |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | |
| Project: | USACE018-44 DOD | Date Received: | |
| Client Sample ID: | VY0819SBS01 | SDG No.: | Q2819 |
| Lab Sample ID: | VY0819SBS01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023139.D | 1 | 08/19/25 10:19 | VY081925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 20.1 | | 0.65 | 2.50 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 20.5 | | 0.62 | 2.50 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 20.4 | | 0.92 | 2.50 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 99.0 | | 3.70 | 12.5 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 20.6 | | 0.87 | 2.50 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 20.3 | | 0.88 | 2.50 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 20.5 | | 1.10 | 2.50 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 21.3 | | 0.91 | 2.50 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 20.8 | | 0.67 | 2.50 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 42.0 | | 1.20 | 5.00 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 21.0 | | 0.82 | 2.50 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 21.0 | | 0.71 | 2.50 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 20.5 | | 0.86 | 2.50 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 21.2 | | 0.78 | 2.50 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 20.7 | | 1.20 | 2.50 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 20.9 | | 1.70 | 2.50 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 20.8 | | 1.60 | 2.50 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 20.5 | | 1.50 | 2.50 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 19.5 | | 1.80 | 4.00 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 20.2 | | 3.00 | 4.00 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 20.1 | | 3.20 | 4.00 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 47.4 | | 71 - 136 | | 95% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 48.6 | | 78 - 119 | | 97% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 49.6 | | 85 - 116 | | 99% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 48.5 | | 79 - 119 | | 97% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 518000 | 7.707 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 817000 | 8.615 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 707000 | 11.413 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 353000 | 13.346 | | | | |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | |
| Project: | USACE018-44 DOD | Date Received: | |
| Client Sample ID: | VY0819SBS01 | SDG No.: | Q2819 |
| Lab Sample ID: | VY0819SBS01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VY023139.D | 1 | 08/19/25 10:19 | VY081925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023139.D
Acq On : 19 Aug 2025 10:19
Operator : SY/MD
Sample : VY0819SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 20 01:24:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 517532 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.615 | 114 | 816918 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.413 | 117 | 707204 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 352720 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.060 | 65 | 233623 | 47.365 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 94.720% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 237406 | 48.567 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 97.140% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 947313 | 49.608 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 99.220% | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 298119 | 48.544 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 97.080% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.866 | 85 | 87281 | 20.661 | ug/l | 100 |
| 3) Chloromethane | 2.074 | 50 | 138015 | 20.171 | ug/l | 100 |
| 4) Vinyl Chloride | 2.208 | 62 | 173827 | 20.552 | ug/l | 99 |
| 5) Bromomethane | 2.592 | 94 | 146241 | 23.152 | ug/l | 98 |
| 6) Chloroethane | 2.738 | 64 | 116717 | 20.757 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.055 | 101 | 205259 | 19.958 | ug/l | 98 |
| 8) Diethyl Ether | 3.458 | 74 | 54043 | 19.862 | ug/l | 94 |
| 9) 1,1,2-Trichlorotrifluo... | 3.817 | 101 | 109139 | 21.510 | ug/l | 99 |
| 10) Methyl Iodide | 4.006 | 142 | 105447 | 19.260 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.860 | 59 | 29364 | 86.885 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 3.793 | 96 | 103754 | 20.804 | ug/l | 91 |
| 13) Acrolein | 3.653 | 56 | 35491 | 71.706 | ug/l | 96 |
| 14) Allyl chloride | 4.384 | 41 | 138299 | 18.846 | ug/l | 96 |
| 15) Acrylonitrile | 5.055 | 53 | 104521 | 94.488 | ug/l | 98 |
| 16) Acetone | 3.872 | 43 | 120414 | 112.685 | ug/l | 98 |
| 17) Carbon Disulfide | 4.104 | 76 | 323680 | 19.905 | ug/l | 99 |
| 18) Methyl Acetate | 4.384 | 43 | 55412 | 17.426 | ug/l | 97 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 254848 | 19.720 | ug/l | 97 |
| 20) Methylene Chloride | 4.616 | 84 | 114203 | 18.875 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 117658 | 20.993 | ug/l | 96 |
| 22) Diisopropyl ether | 6.018 | 45 | 314582 | 19.728 | ug/l | 95 |
| 23) Vinyl Acetate | 5.963 | 43 | 837107 | 94.938 | ug/l | 97 |
| 24) 1,1-Dichloroethane | 5.921 | 63 | 194782 | 19.979 | ug/l | 100 |
| 25) 2-Butanone | 6.890 | 43 | 146563 | 100.847 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 6.890 | 77 | 179625 | 21.352 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 133354 | 20.582 | ug/l | 97 |
| 28) Bromochloromethane | 7.244 | 49 | 75324 | 19.474 | ug/l | 96 |
| 29) Tetrahydrofuran | 7.262 | 42 | 81427 | 90.389 | ug/l | 98 |
| 30) Chloroform | 7.426 | 83 | 208029 | 20.690 | ug/l | 100 |
| 31) Cyclohexane | 7.701 | 56 | 180441 | 19.640 | ug/l | 94 |
| 32) 1,1,1-Trichloroethane | 7.615 | 97 | 185862 | 20.833 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 149696 | 20.606 | ug/l | 99 |
| 37) Ethyl Acetate | 6.981 | 43 | 56943 | 18.660 | ug/l | 98 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 169089 | 21.430 | ug/l | 99 |
| 39) Methylcyclohexane | 9.109 | 83 | 199011 | 20.803 | ug/l | 99 |
| 40) Benzene | 8.079 | 78 | 471421 | 21.055 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023139.D
Acq On : 19 Aug 2025 10:19
Operator : SY/MD
Sample : VY0819SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 20 01:24:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 08/20/2025
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| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.219 | 41 | 32549m | 18.482 | ug/l | | |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 117552 | 20.187 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.195 | 43 | 113681 | 18.431 | ug/l | | 99 |
| 44) Trichloroethene | 8.865 | 130 | 122590 | 21.187 | ug/l | | 98 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 105641 | 20.506 | ug/l | | 99 |
| 46) Dibromomethane | 9.231 | 93 | 62014 | 20.972 | ug/l | | 97 |
| 47) Bromodichloromethane | 9.420 | 83 | 157692 | 20.725 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.219 | 41 | 54599 | 18.499 | ug/l | | 93 |
| 49) 1,4-Dioxane | 9.231 | 88 | 13295 | 383.459 | ug/l | | 96 |
| 51) 4-Methyl-2-Pentanone | 9.999 | 43 | 298177 | 93.721 | ug/l | | 99 |
| 52) Toluene | 10.170 | 92 | 299030 | 21.028 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.395 | 75 | 138793 | 20.144 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 166637 | 20.453 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 10.572 | 97 | 80520 | 20.350 | ug/l | | 95 |
| 56) Ethyl methacrylate | 10.438 | 69 | 94888 | 18.741 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.718 | 76 | 138195 | 20.594 | ug/l | | 98 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 226098 | 94.672 | ug/l | | 98 |
| 59) 2-Hexanone | 10.761 | 43 | 214547 | 99.034 | ug/l | | 100 |
| 60) Dibromochloromethane | 10.907 | 129 | 107311 | 20.554 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 11.017 | 107 | 75418 | 20.280 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.645 | 164 | 129655 | 20.532 | ug/l | | 99 |
| 65) Chlorobenzene | 11.438 | 112 | 325629 | 21.346 | ug/l | | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131 | 109752 | 21.199 | ug/l | | 98 |
| 67) Ethyl Benzene | 11.517 | 91 | 545176 | 20.767 | ug/l | | 98 |
| 68) m/p-Xylenes | 11.627 | 106 | 430120 | 41.951 | ug/l | | 100 |
| 69) o-Xylene | 11.956 | 106 | 201847 | 21.020 | ug/l | | 100 |
| 70) Styrene | 11.968 | 104 | 330216 | 21.028 | ug/l | | 99 |
| 71) Bromoform | 12.127 | 173 | 62105 | 20.525 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.255 | 105 | 527385 | 21.185 | ug/l | | 99 |
| 74) N-amyl acetate | 12.066 | 43 | 98366 | 18.632 | ug/l | | 97 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 87962 | 20.694 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 61598m | 18.095 | ug/l | | |
| 77) Bromobenzene | 12.529 | 156 | 122298 | 20.592 | ug/l | | 99 |
| 78) n-propylbenzene | 12.596 | 91 | 629976 | 21.255 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.675 | 91 | 356441 | 20.990 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.736 | 105 | 422945 | 21.022 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 27897 | 19.838 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 366476 | 20.803 | ug/l | | 99 |
| 83) tert-Butylbenzene | 12.992 | 119 | 383813 | 21.122 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.041 | 105 | 426567 | 21.298 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.175 | 105 | 572911 | 21.463 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.291 | 119 | 473600 | 21.375 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 245224 | 20.938 | ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 13.364 | 146 | 241992 | 20.829 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.614 | 91 | 427124 | 20.989 | ug/l | | 99 |
| 90) Hexachloroethane | 13.876 | 117 | 97949 | 21.595 | ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 210816 | 20.524 | ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 12905 | 19.499 | ug/l | | 98 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 122439 | 20.157 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 75487 | 21.149 | ug/l | | 99 |
| 95) Naphthalene | 15.145 | 128 | 198080 | 19.124 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.327 | 180 | 105286 | 20.115 | ug/l | | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023139.D
Acq On : 19 Aug 2025 10:19
Operator : SY/MD
Sample : VY0819SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 20 01:24:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

**Manual Integrations APPROVED**

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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023139.D
Acq On : 19 Aug 2025 10:19
Operator : SY/MD
Sample : VY0819SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 20 01:24:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

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VY0819SBS01

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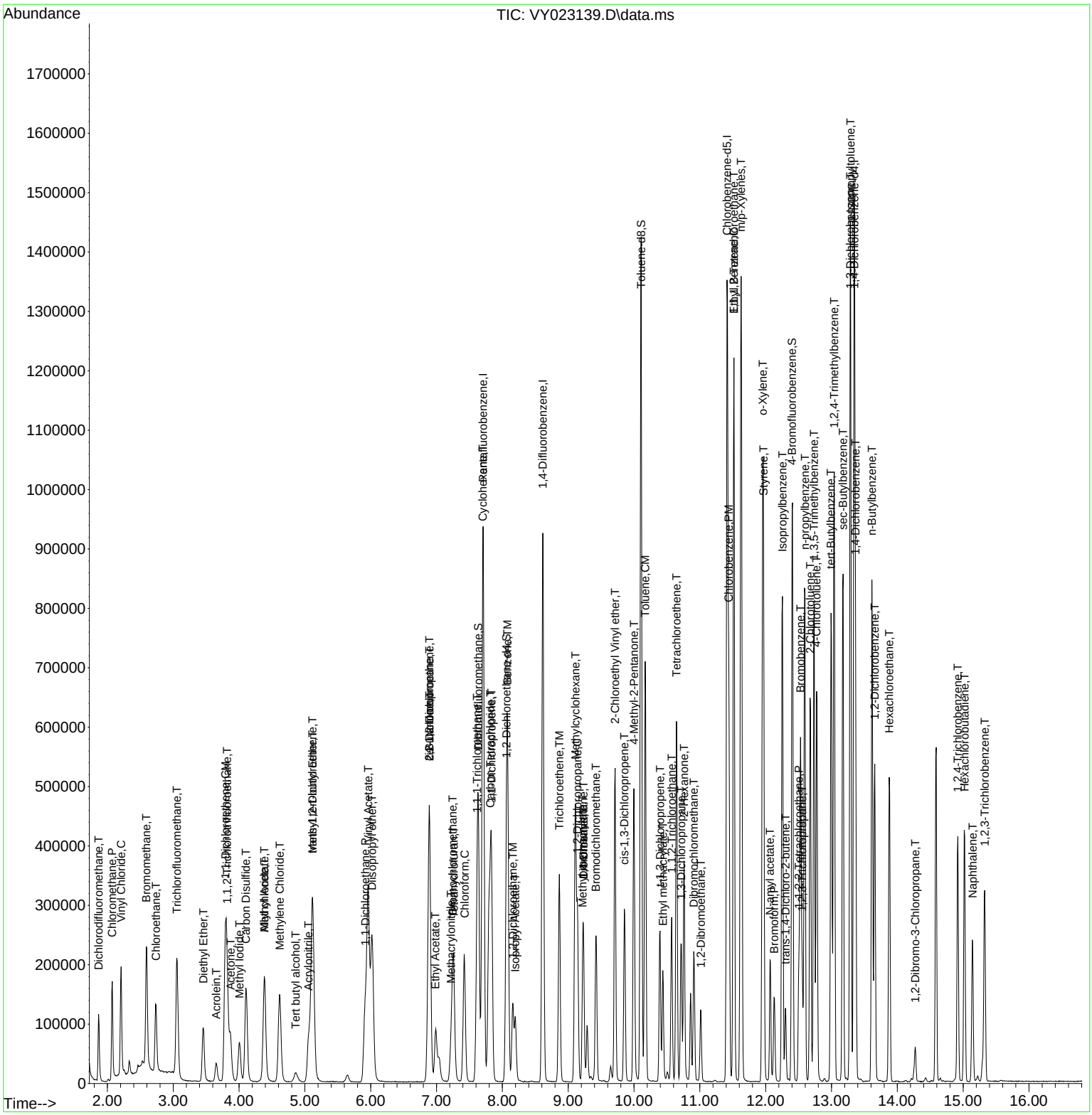
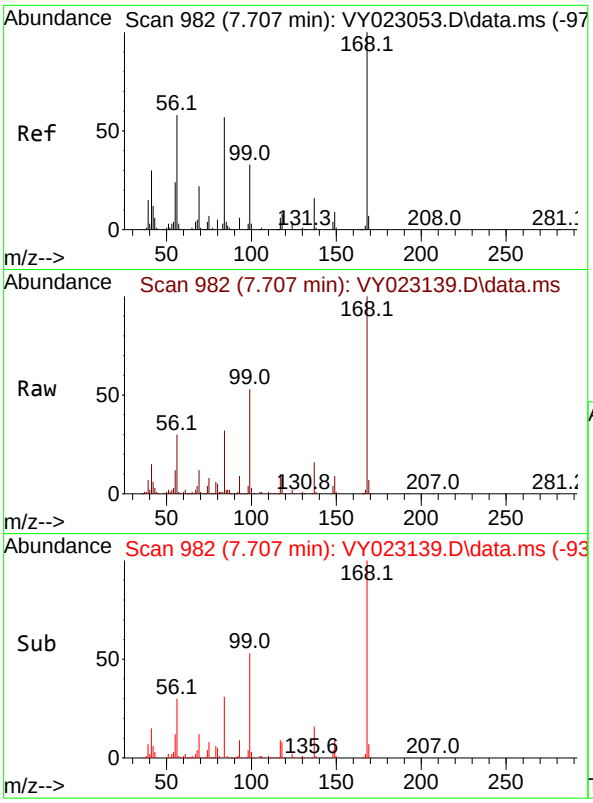
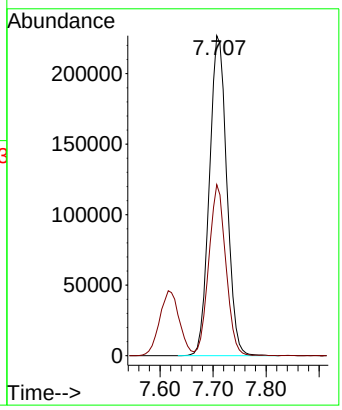





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:168 Resp: 51753

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 53.4 | 42.8 | 64.2 |

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**ClientSampleId :**
VY0819SBS01

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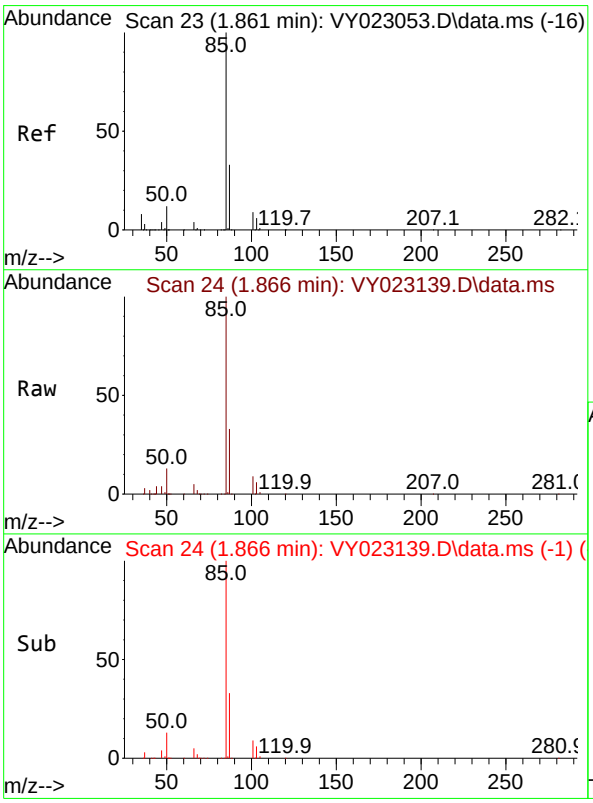
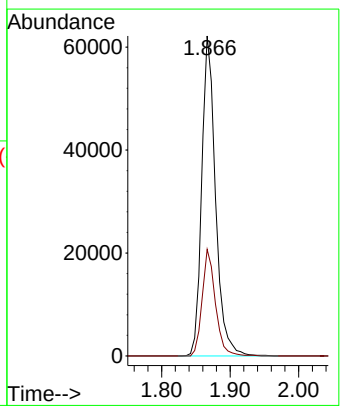
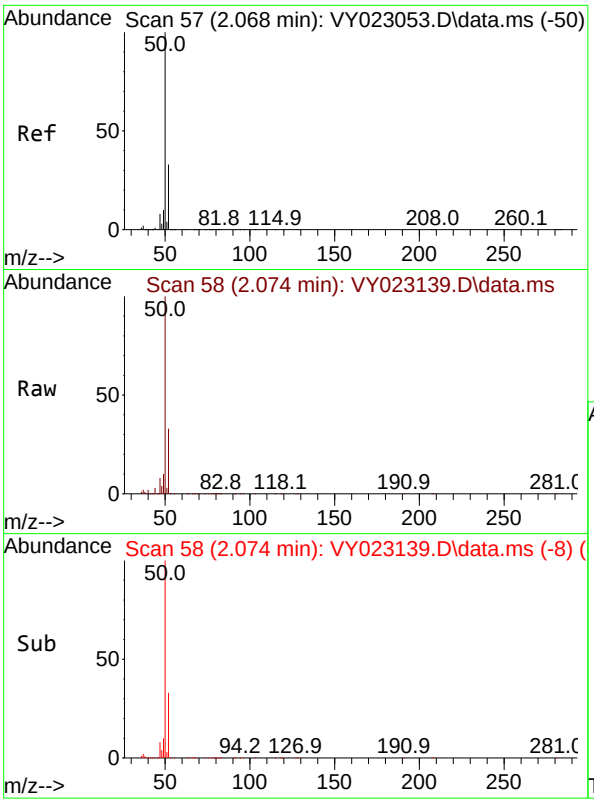



#2
Dichlorodifluoromethane
Concen: 20.661 ug/l
RT: 1.866 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 85 Resp: 87281

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.3 | 16.6 | 49.8 |

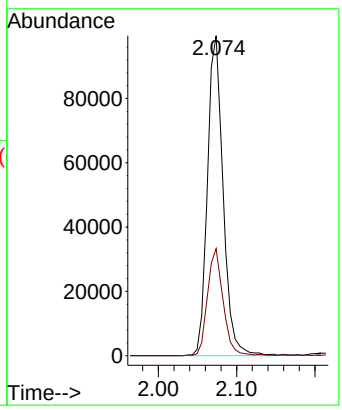





#3
Chloromethane
Concen: 20.171 ug/l
RT: 2.074 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 50 Resp: 13801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.5 | 26.7 | 40.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

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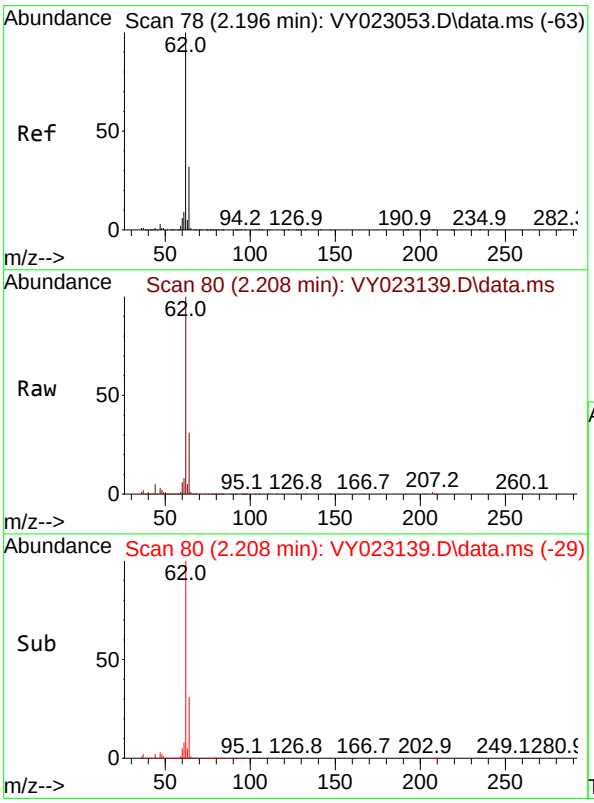
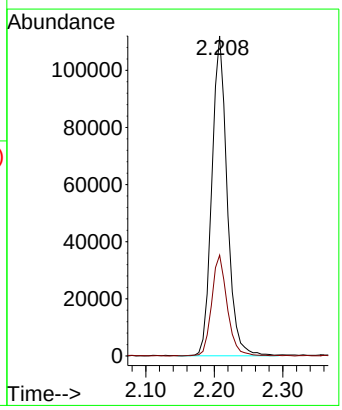
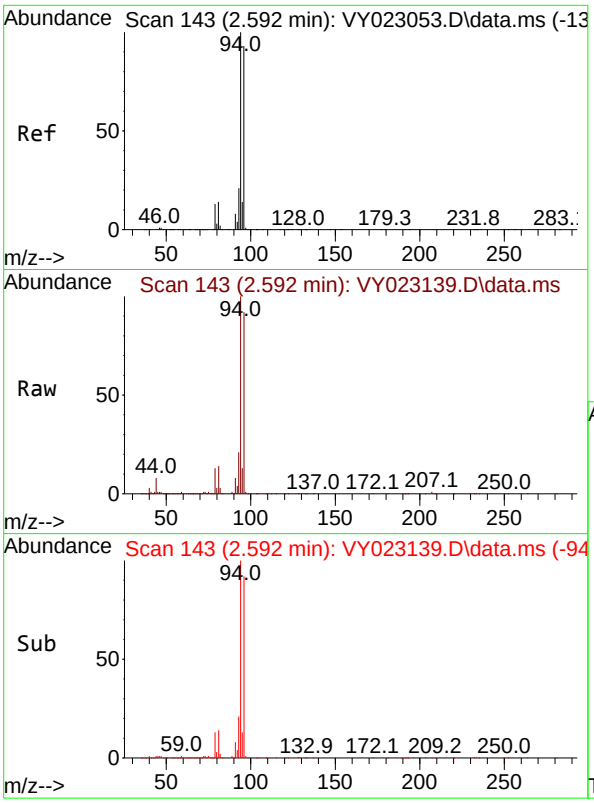



#4
Vinyl Chloride
Concen: 20.552 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 62 Resp: 173827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.4 | 25.4 | 38.0 |

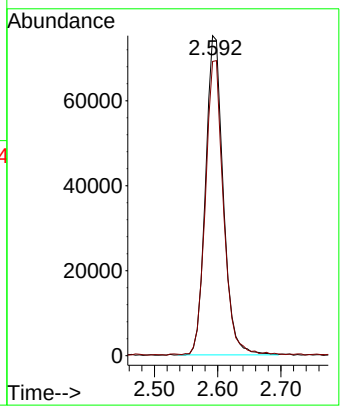





#5
Bromomethane
Concen: 23.152 ug/l
RT: 2.592 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 94 Resp: 14624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 91.7 | 74.6 | 112.0 |

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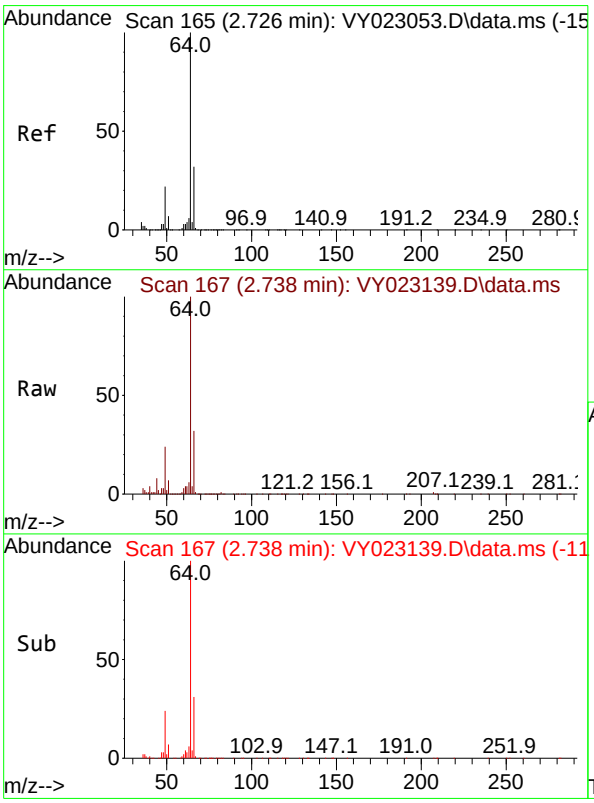
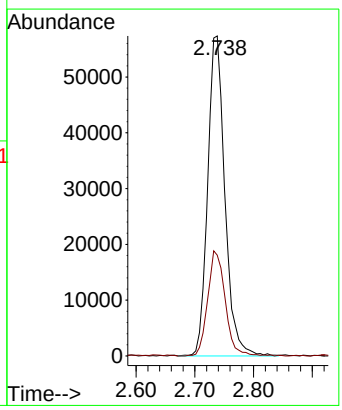
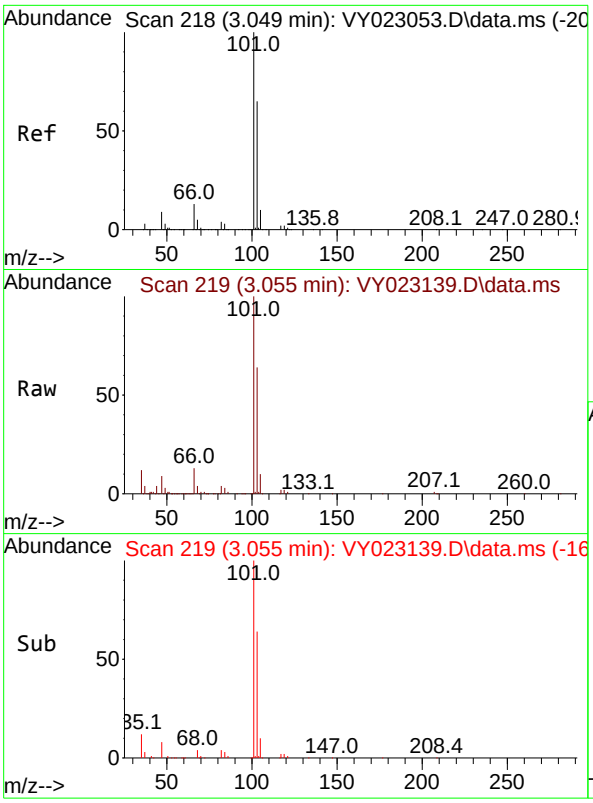



#6
Chloroethane
Concen: 20.757 ug/l
RT: 2.738 min Scan# 167
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 64 Resp: 116717

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.5 | 25.8 | 38.6 |

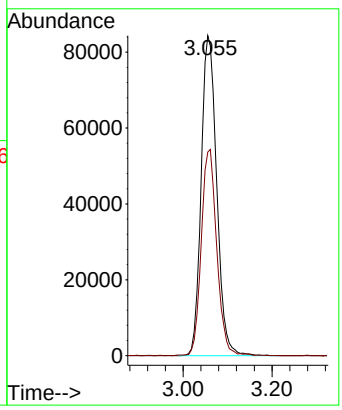





#7
Trichlorofluoromethane
Concen: 19.958 ug/l
RT: 3.055 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:101 Resp: 20525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.6 | 51.9 | 77.9 |

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MSVOA_Y
**ClientSampleId :**
VY0819SBS01

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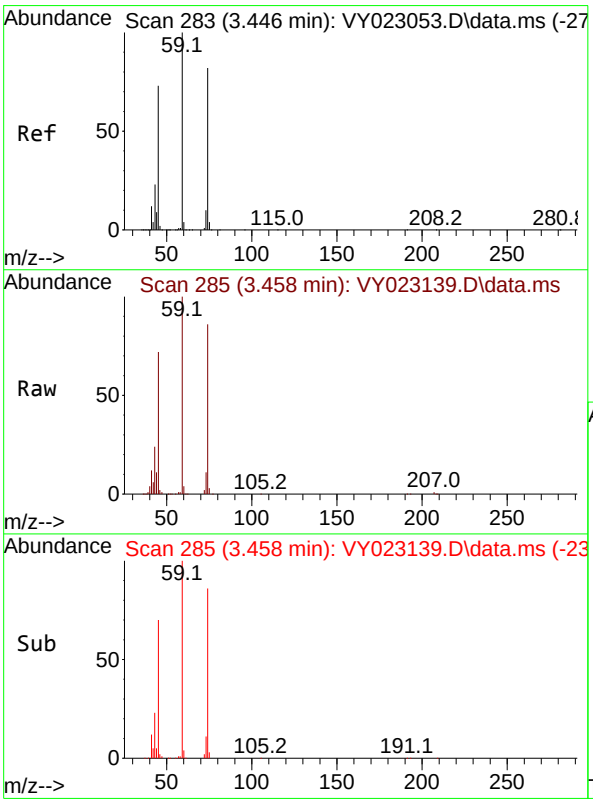
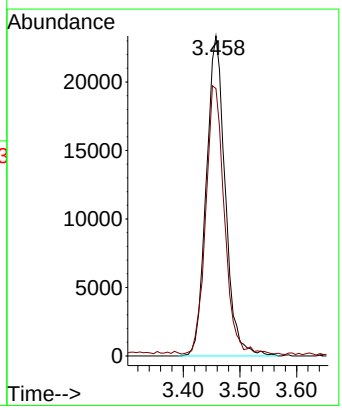
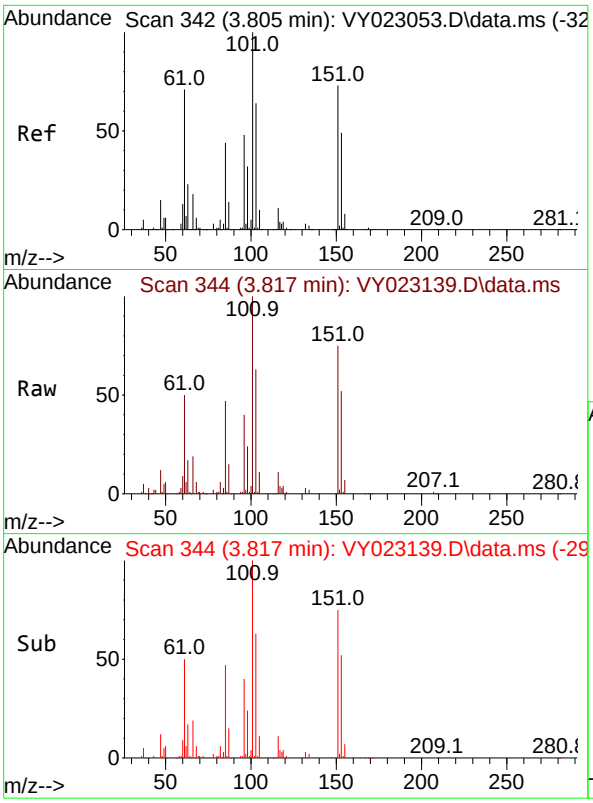



#8
Diethyl Ether
Concen: 19.862 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 74 Resp: 54043

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 83.3 | 44.4 | 133.2 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.510 ug/l
RT: 3.817 min Scan# 3
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

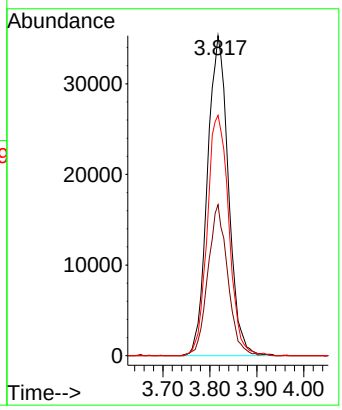
Tgt Ion:101 Resp: 10913

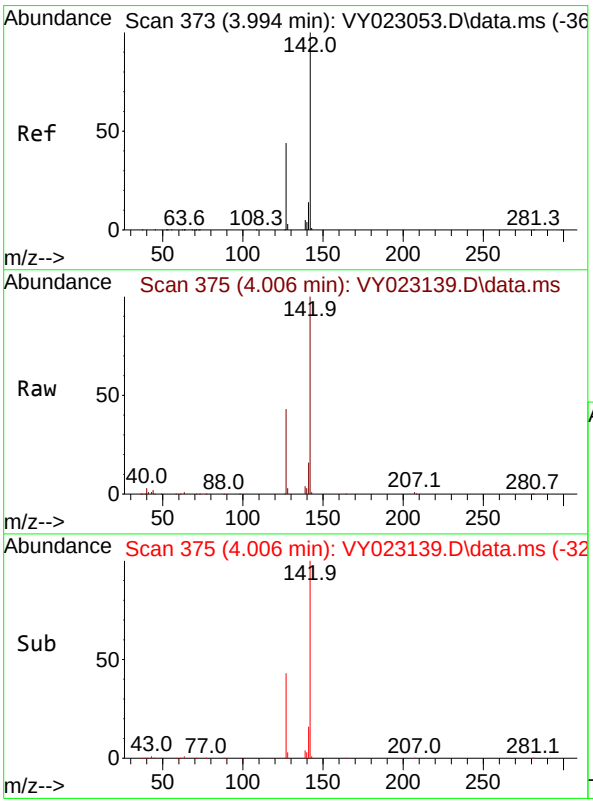
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 44.6 | 36.3 | 54.5 |
| 151 | 77.5 | 61.5 | 92.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

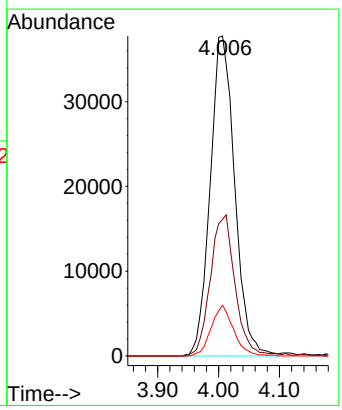


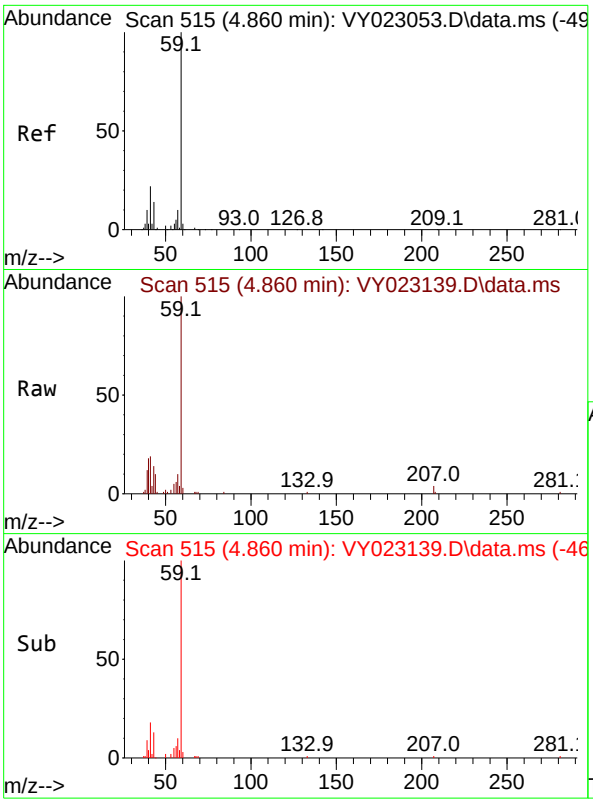




#10
Methyl Iodide
Concen: 19.260 ug/l
RT: 4.006 min Scan# 375
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:142 Resp: 105447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 44.5 | 34.9 | 52.3 |
| 141 | 14.5 | 11.3 | 16.9 |

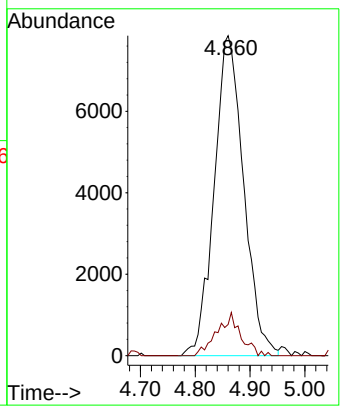





#11
Tert butyl alcohol
Concen: 86.885 ug/l
RT: 4.860 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 59 Resp: 2936

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.8 | 8.6 | 13.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

**Manual Integrations**
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Reviewed By :John Carlone 08/20/2025
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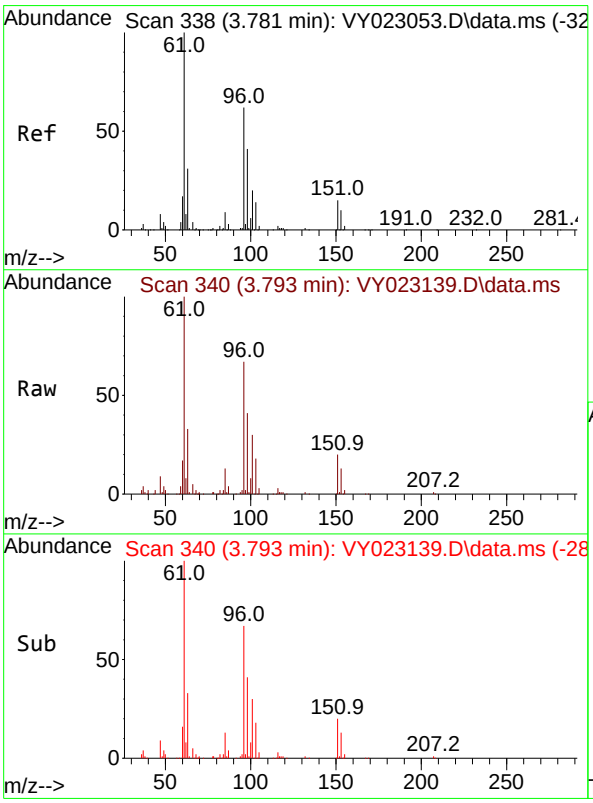
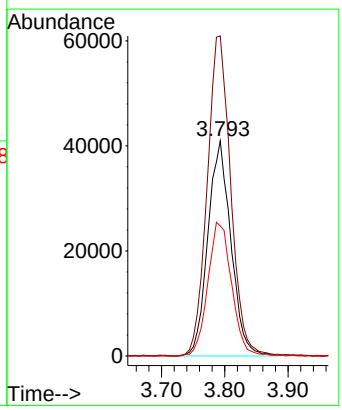
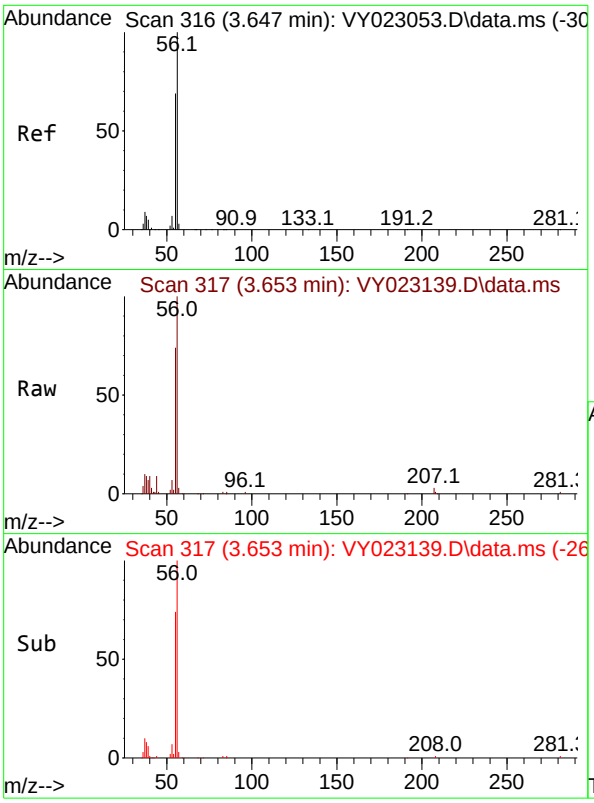



#12
1,1-Dichloroethene
Concen: 20.804 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 96 Resp: 103754

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 148.7 | 129.4 | 194.2 |
| 98 | 60.4 | 52.8 | 79.2 |

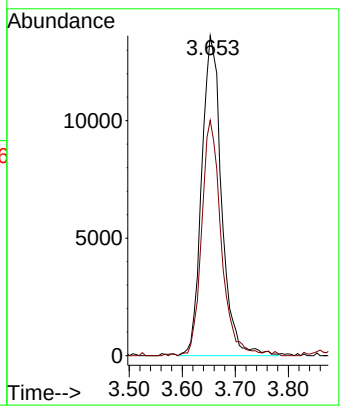





#13
Acrolein
Concen: 71.706 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 56 Resp: 3549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 72.0 | 55.2 | 82.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

**Manual Integrations**
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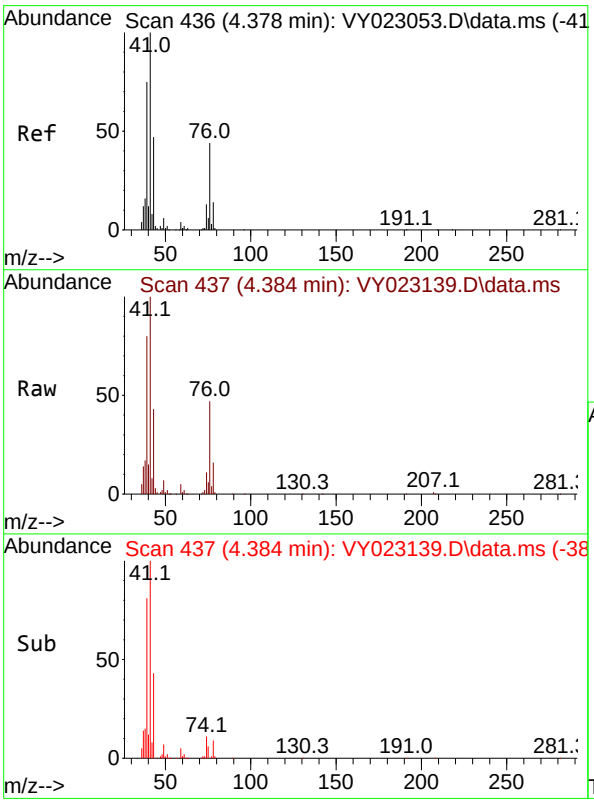
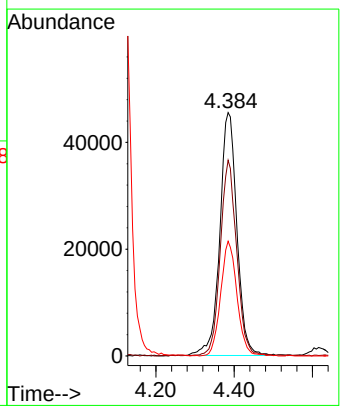
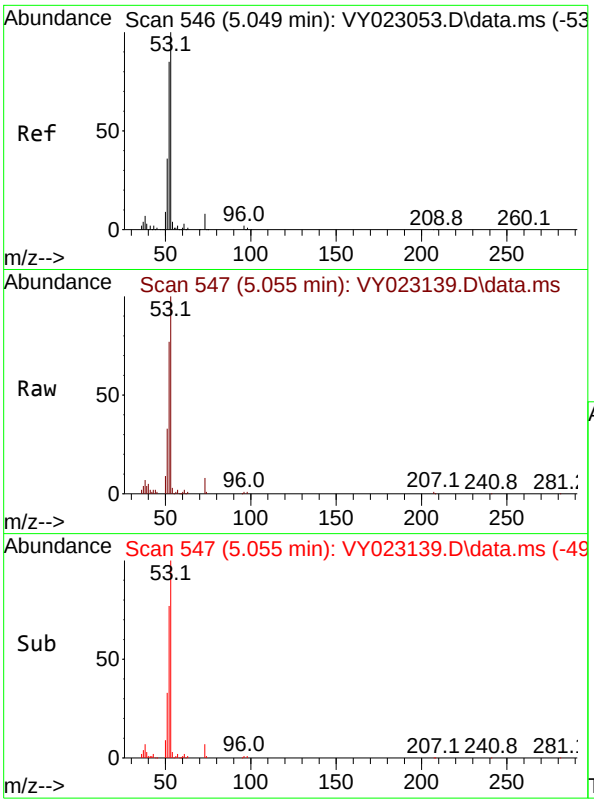



#14
Allyl chloride
Concen: 18.846 ug/l
RT: 4.384 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 41 Resp: 138299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 77.1 | 59.8 | 89.6 |
| 76 | 45.1 | 33.7 | 50.5 |

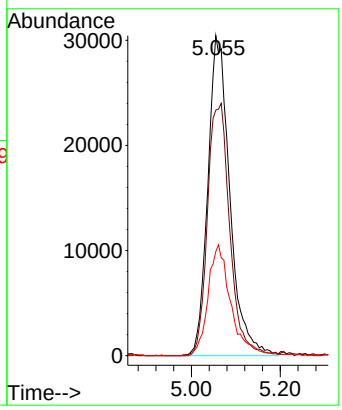





#15
Acrylonitrile
Concen: 94.488 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 53 Resp: 10452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 79.8 | 65.3 | 97.9 |
| 51 | 35.9 | 29.5 | 44.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

**Manual Integrations**
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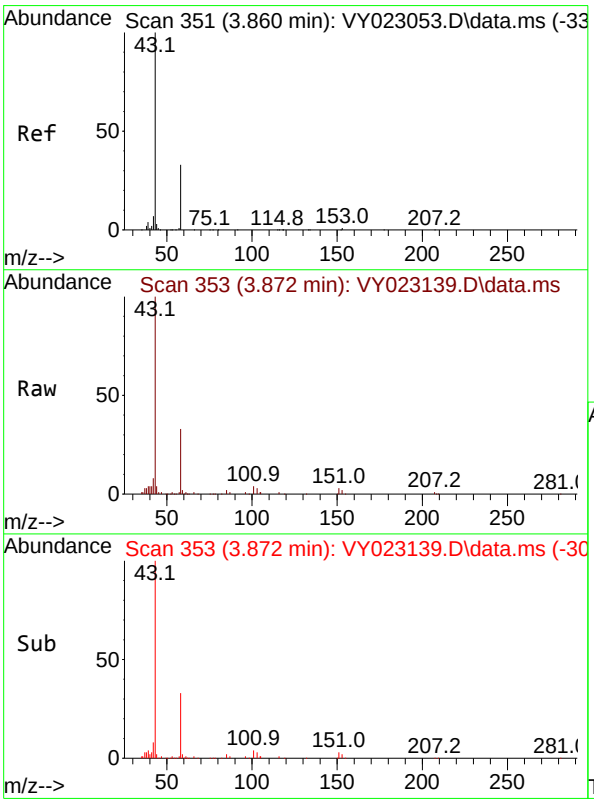
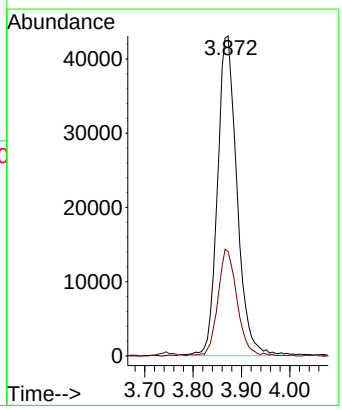
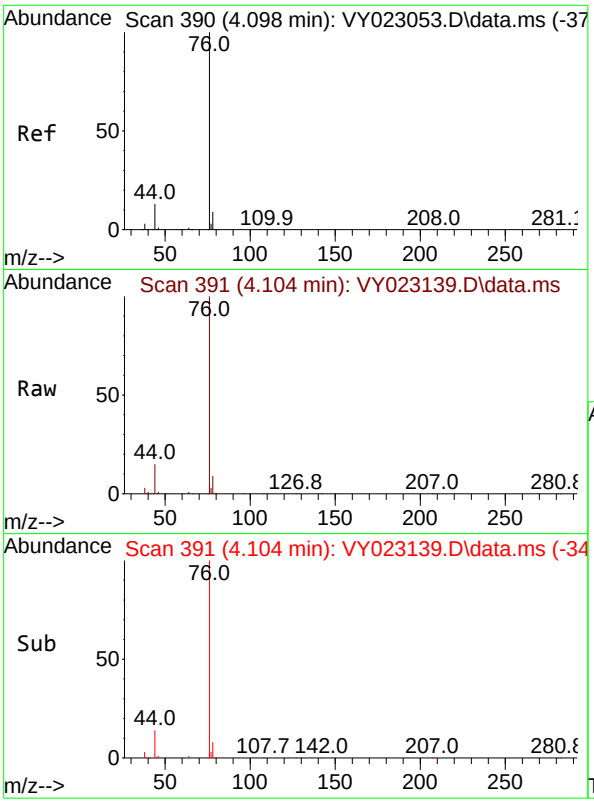



#16
Acetone
Concen: 112.685 ug/l
RT: 3.872 min Scan# 353
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 43 Resp: 120414

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.5 | 27.1 | 40.7 |

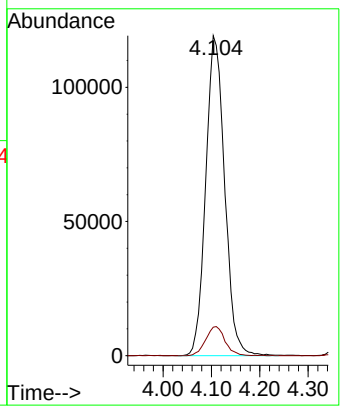





#17
Carbon Disulfide
Concen: 19.905 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 76 Resp: 32368

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.9 | 7.4 | 11.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

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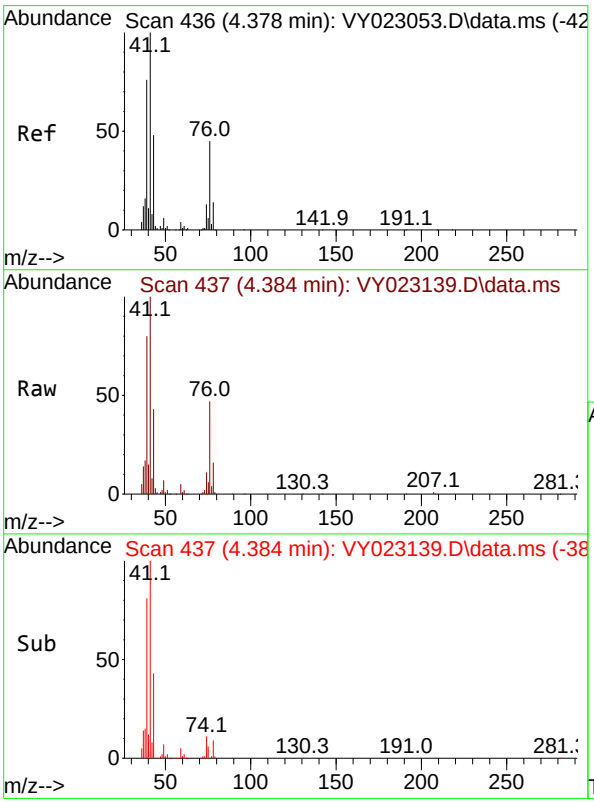
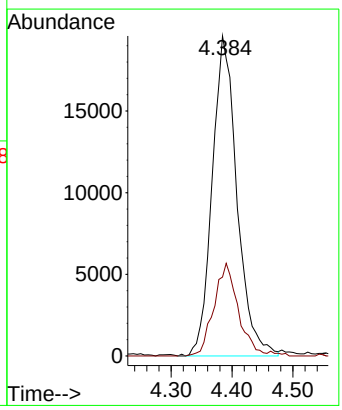
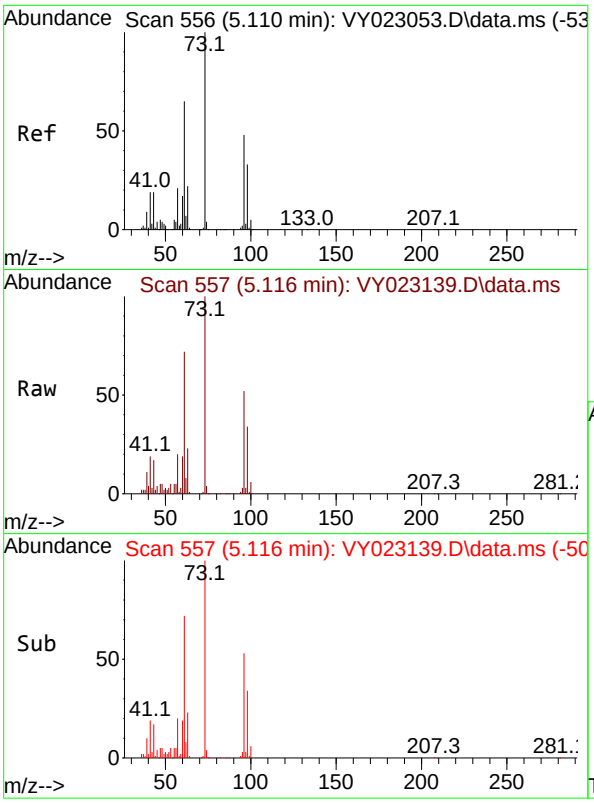



#18
Methyl Acetate
Concen: 17.426 ug/l
RT: 4.384 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 43 Resp: 55412

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 28.3 | 21.2 | 31.8 |

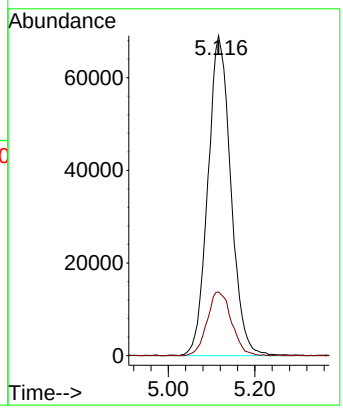





#19
Methyl tert-butyl Ether
Concen: 19.720 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 73 Resp: 25484

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 19.9 | 17.1 | 25.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

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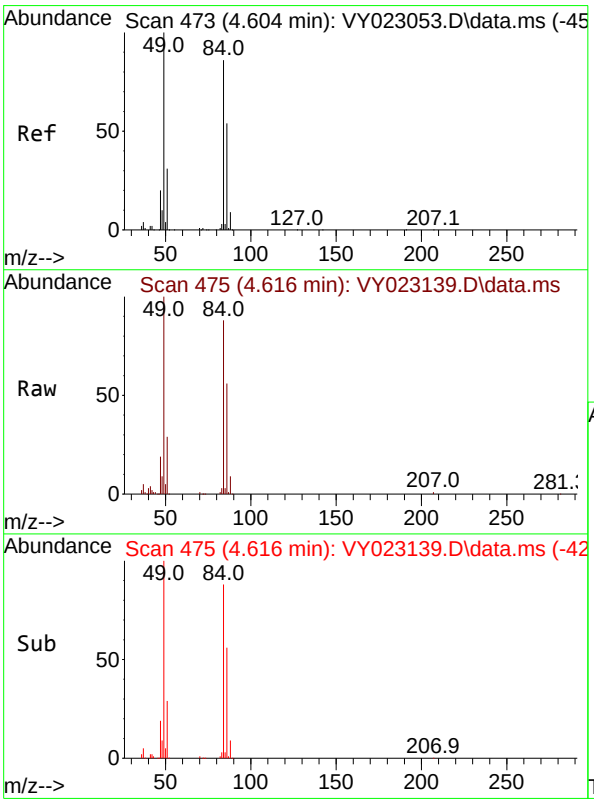
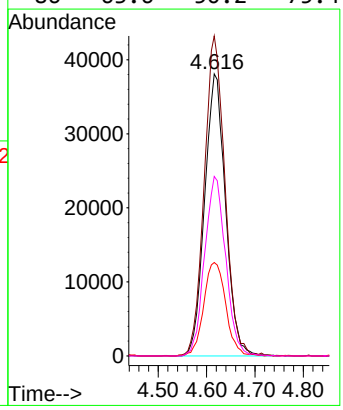
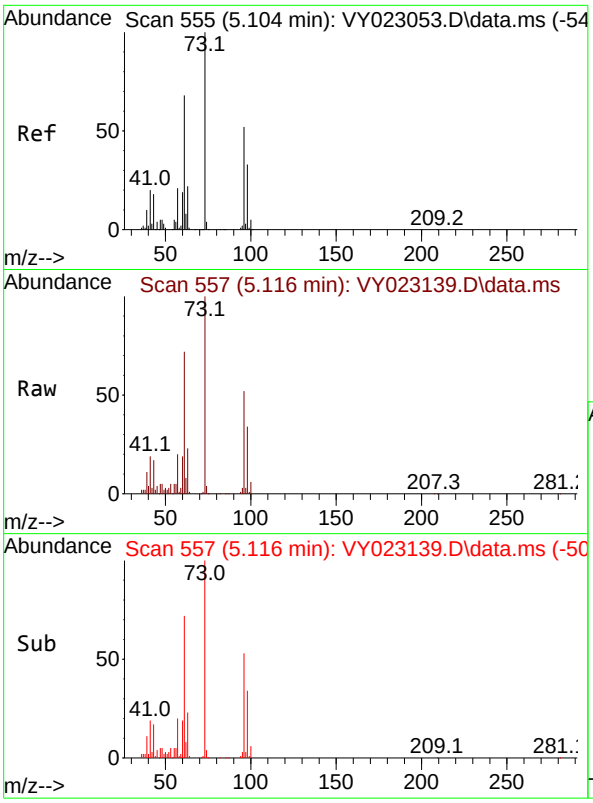



#20
Methylene Chloride
Concen: 18.875 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 84 Resp: 114203

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 113.2 | 93.0 | 139.6 |
| 51 | 33.1 | 29.0 | 43.4 |
| 86 | 63.6 | 50.2 | 75.4 |

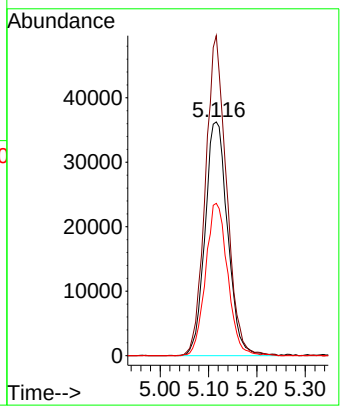





#21
trans-1,2-Dichloroethene
Concen: 20.993 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 96 Resp: 11765

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 136.8 | 104.8 | 157.2 |
| 98 | 65.2 | 50.1 | 75.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

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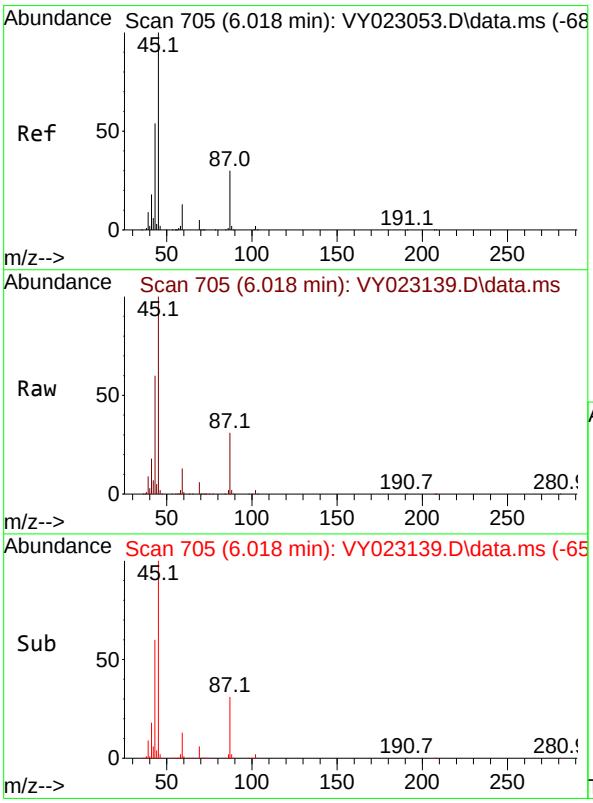
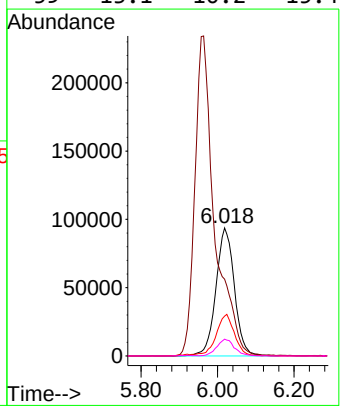
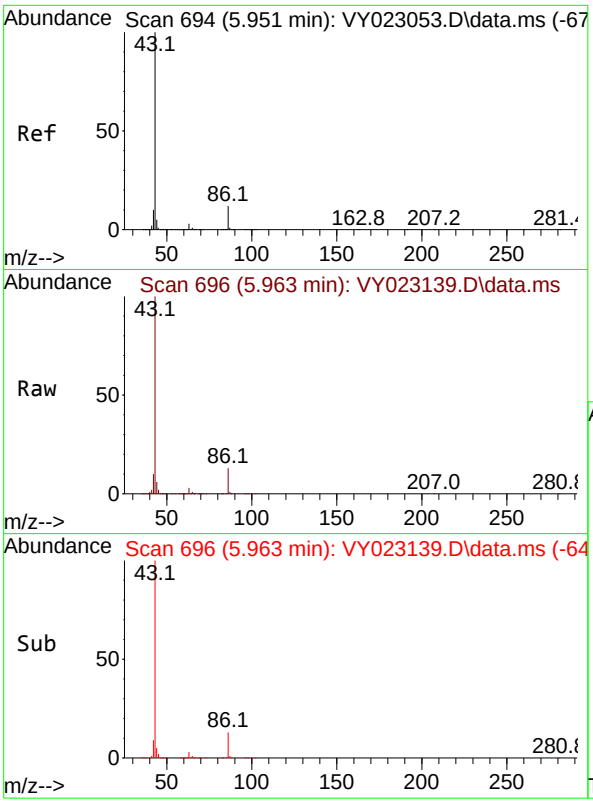



#22
Diisopropyl ether
Concen: 19.728 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 45 Resp: 314582

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 59.6 | 43.4 | 65.0 |
| 87 | 31.1 | 24.4 | 36.6 |
| 59 | 13.1 | 10.2 | 15.4 |






#23
Vinyl Acetate
Concen: 94.938 ug/l
RT: 5.963 min Scan# 6
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 43 Resp: 83710

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 13.2 | 9.6 | 14.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

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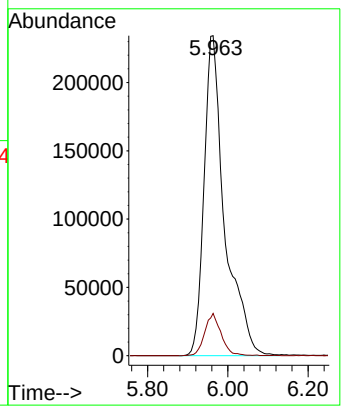
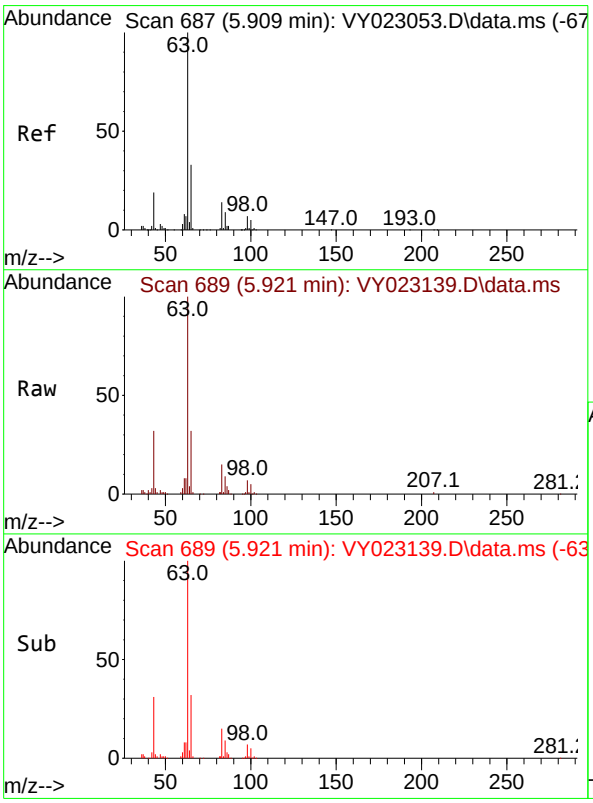
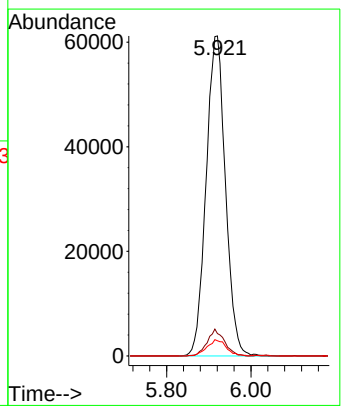


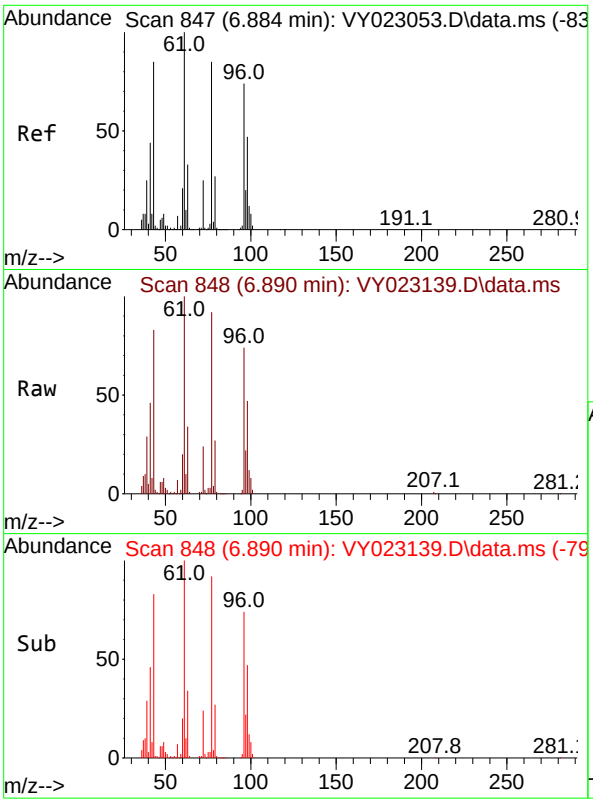




#24
1,1-Dichloroethane
Concen: 19.979 ug/l
RT: 5.921 min Scan# 689
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 63 Resp: 194782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.0 | 3.5 | 10.6 |
| 100 | 4.7 | 2.4 | 7.1 |

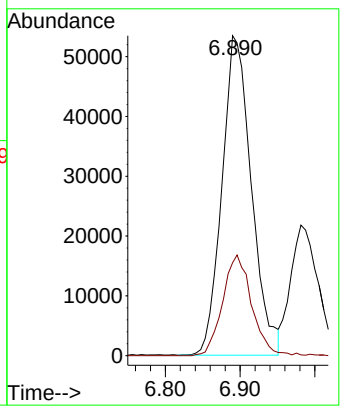





#25
2-Butanone
Concen: 100.847 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 43 Resp: 14656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 29.1 | 23.5 | 35.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

**Manual Integrations**
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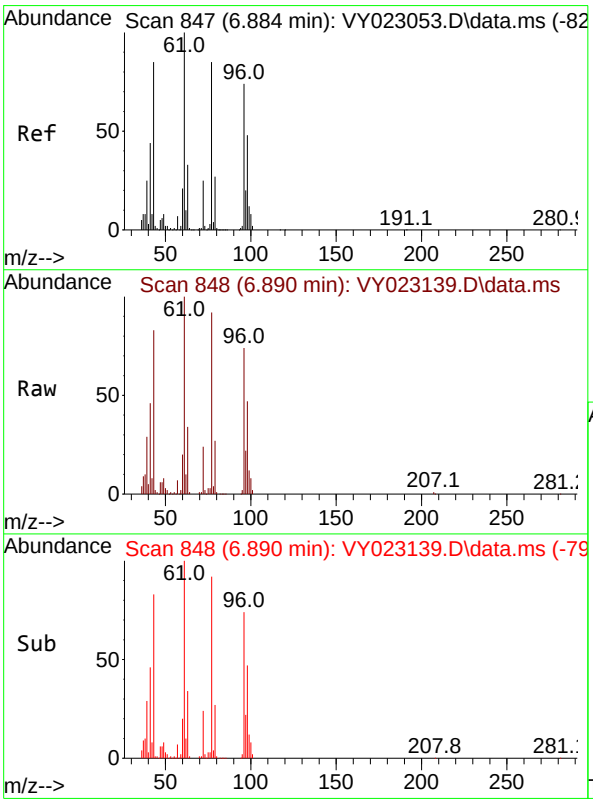
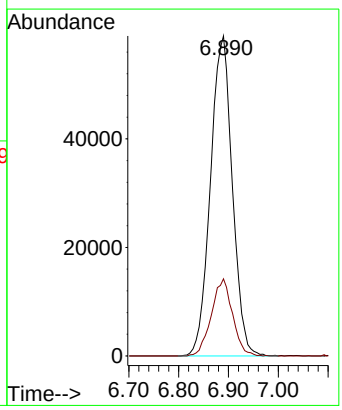
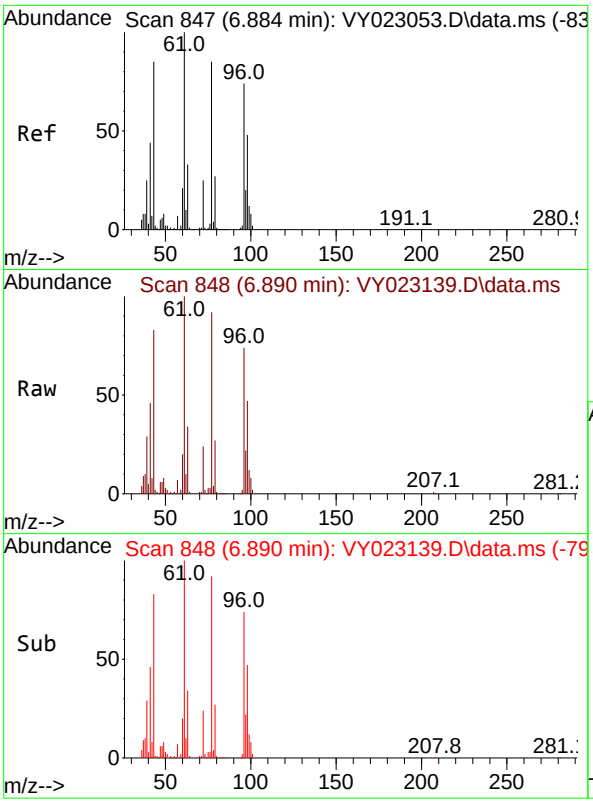



#26
2,2-Dichloropropane
Concen: 21.352 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 77 Resp: 179625

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.3 | 11.6 | 34.8 |






#27
cis-1,2-Dichloroethene
Concen: 20.582 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

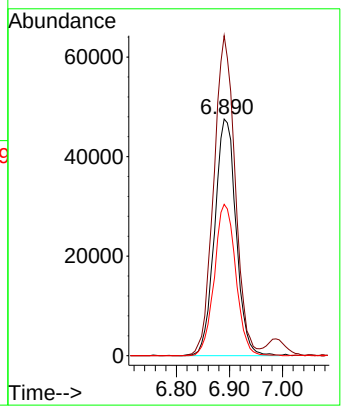
Tgt Ion: 96 Resp: 13335

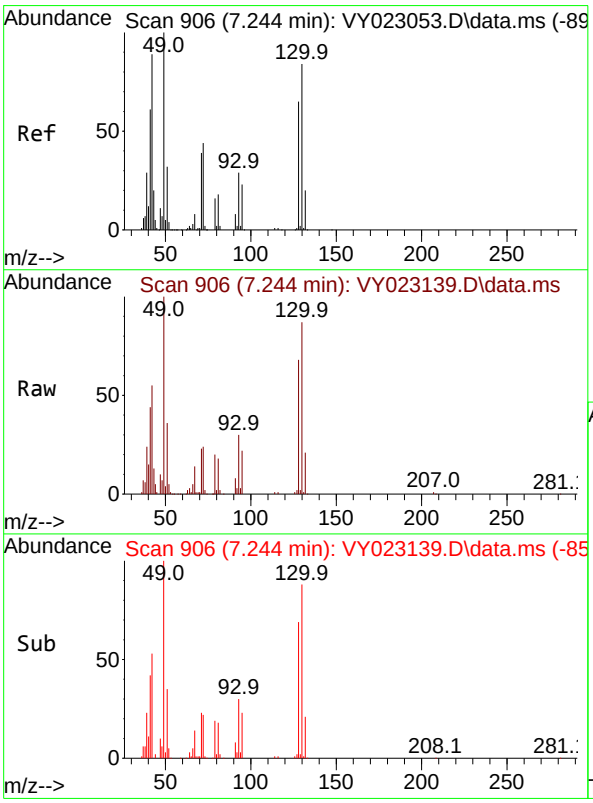
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 135.3 | 0.0 | 278.6 |
| 98 | 64.1 | 0.0 | 130.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

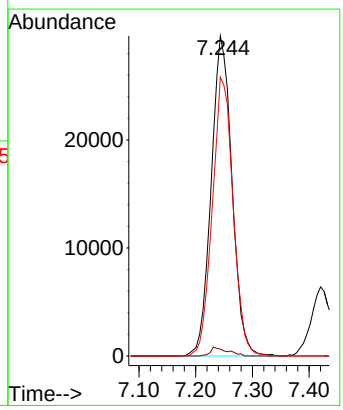


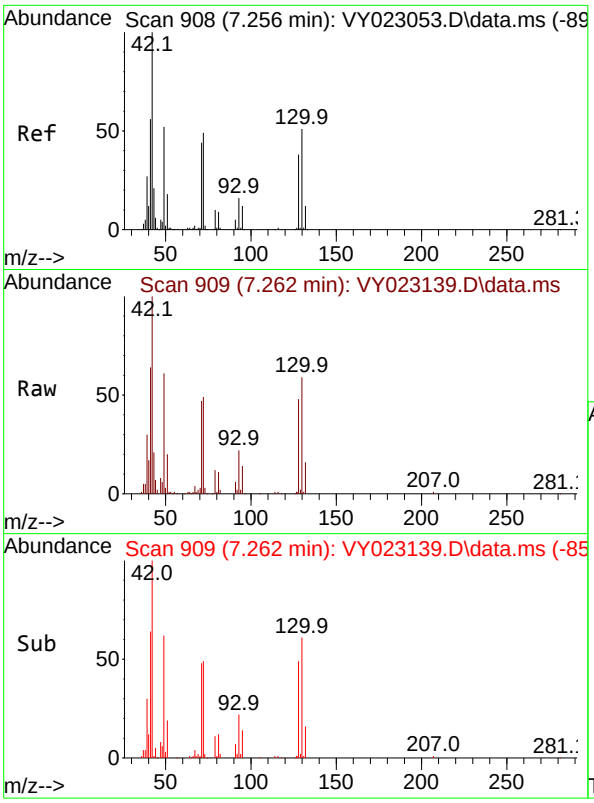




#28
Bromochloromethane
Concen: 19.474 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 49 Resp: 75324

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.3 | 0.0 | 4.2 |
| 130 | 87.0 | 66.4 | 99.6 |

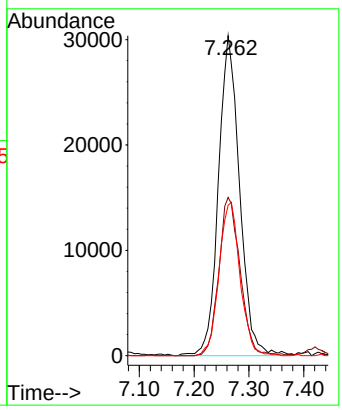





#29
Tetrahydrofuran
Concen: 90.389 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 42 Resp: 8142

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 49.9 | 39.4 | 59.2 |
| 71 | 47.8 | 36.5 | 54.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

**Manual Integrations**
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Reviewed By :John Carlone 08/20/2025
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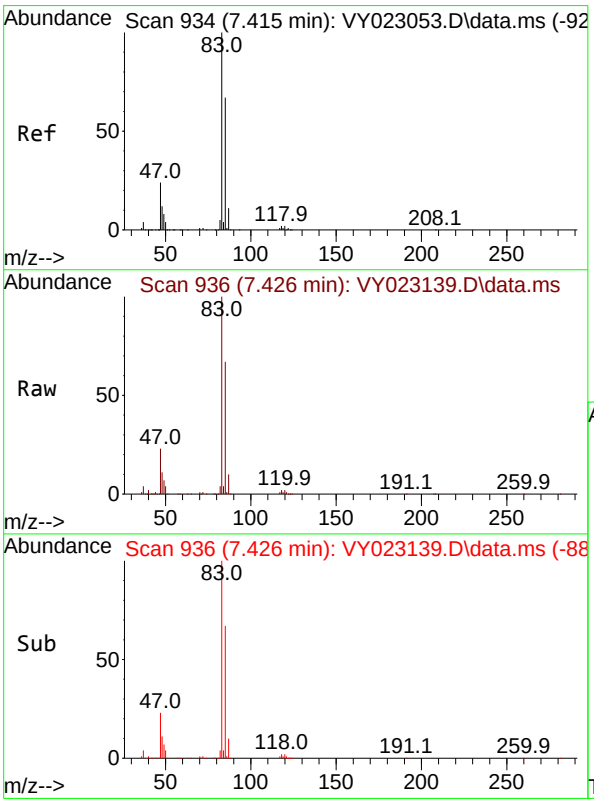
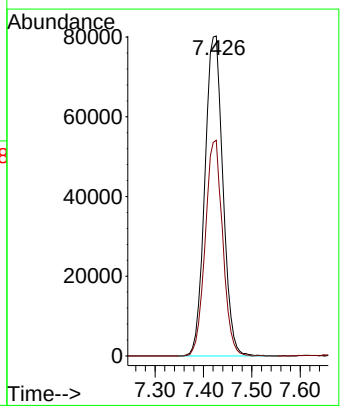
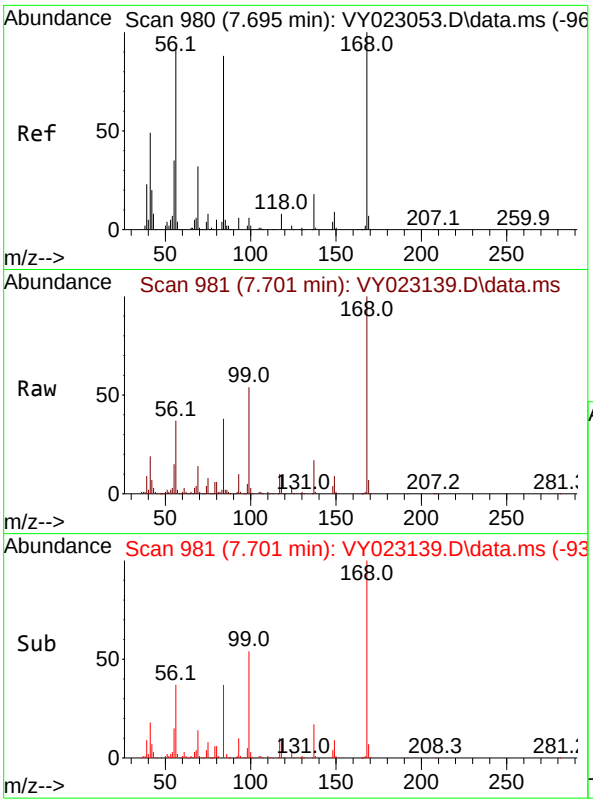



#30
Chloroform
Concen: 20.690 ug/l
RT: 7.426 min Scan# 936
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 83 Resp: 208029

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 67.4 | 53.8 | 80.8 |

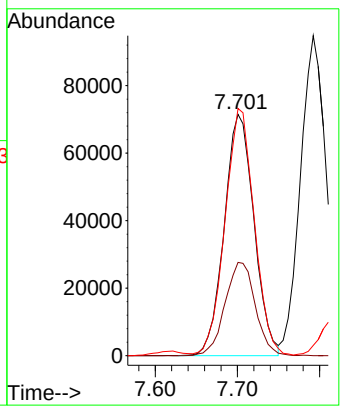





#31
Cyclohexane
Concen: 19.640 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 56 Resp: 18044

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 38.6 | 28.2 | 42.2 |
| 84 | 101.0 | 76.6 | 114.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 08/20/2025
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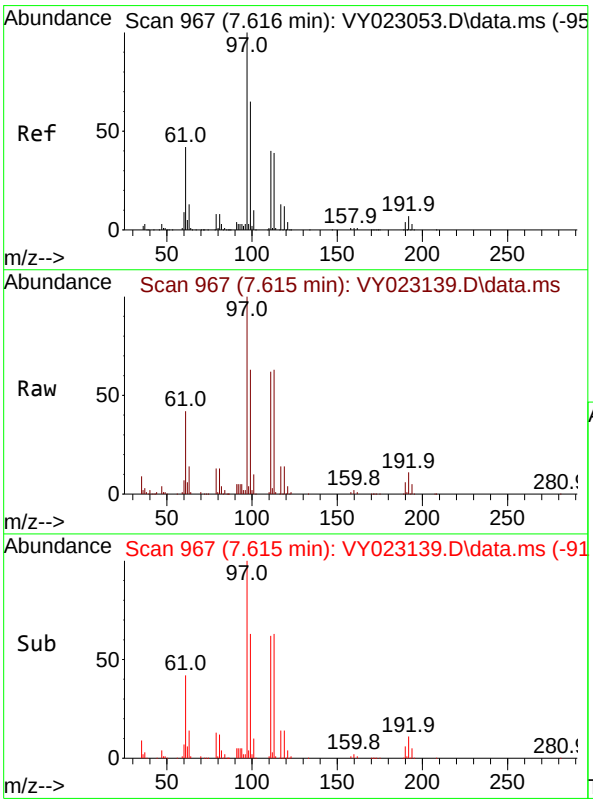
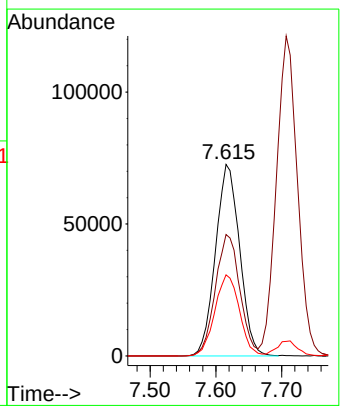
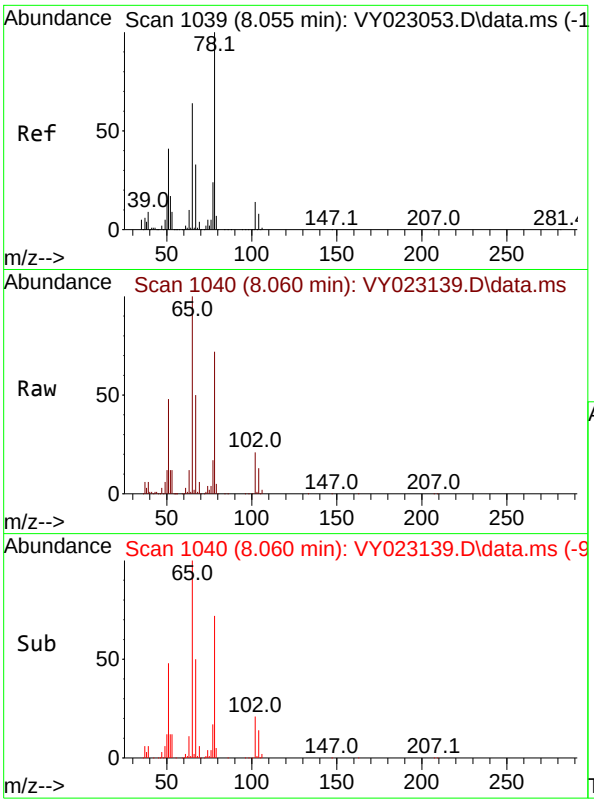



#32
1,1,1-Trichloroethane
Concen: 20.833 ug/l
RT: 7.615 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 97 Resp: 185862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.2 | 51.6 | 77.4 |
| 61 | 43.2 | 34.2 | 51.2 |

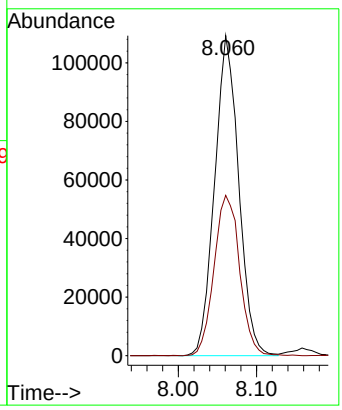





#33
1,2-Dichloroethane-d4
Concen: 47.365 ug/l
RT: 8.060 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 65 Resp: 23362

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.2 | 0.0 | 106.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

**Manual Integrations**
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Reviewed By :John Carlone 08/20/2025
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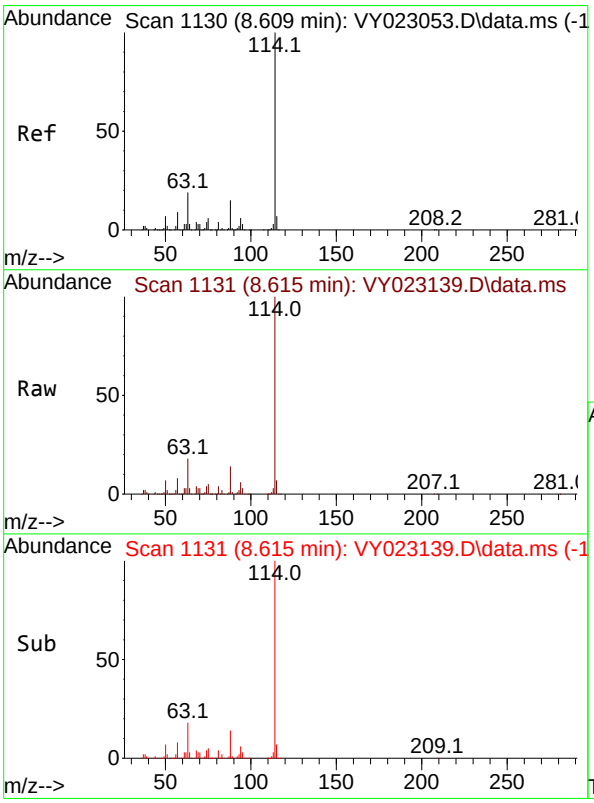
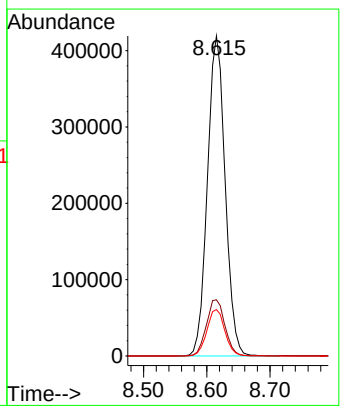
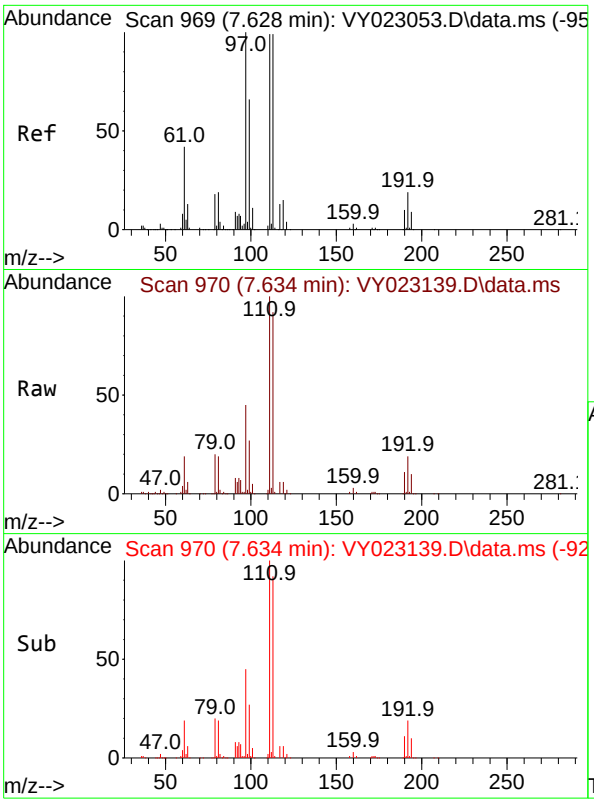



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:114 Resp: 816918

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 17.5 | 0.0 | 38.4 |
| 88 | 14.5 | 0.0 | 30.0 |

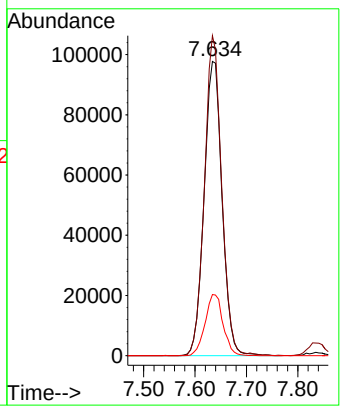





#35
Dibromofluoromethane
Concen: 48.567 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:113 Resp: 23740

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 104.2 | 81.1 | 121.7 |
| 192 | 20.8 | 16.2 | 24.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

**Manual Integrations**
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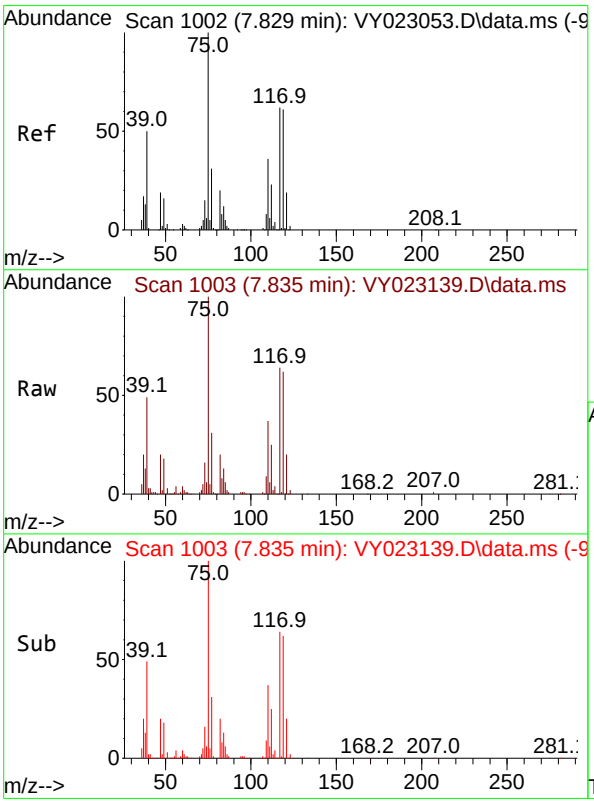
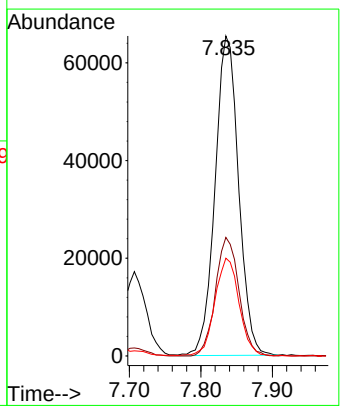
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

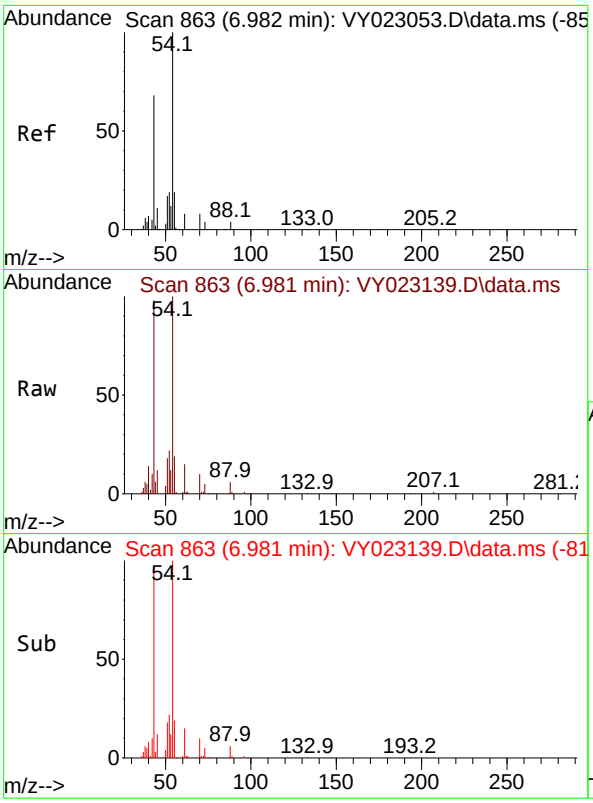



#36
1,1-Dichloropropene
Concen: 20.606 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 75 Resp: 149696

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 37.0 | 18.1 | 54.4 |
| 77 | 31.6 | 24.6 | 37.0 |

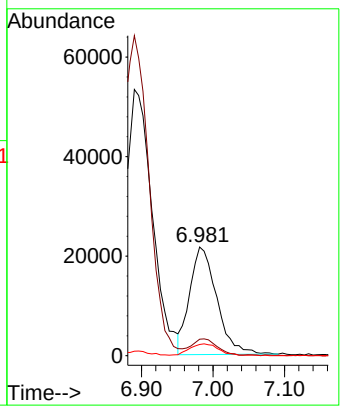





#37
Ethyl Acetate
Concen: 18.660 ug/l
RT: 6.981 min Scan# 8
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 43 Resp: 5694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.4 | 11.9 | 17.9 |
| 70 | 12.3 | 8.8 | 13.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

**Manual Integrations**
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Reviewed By :John Carlone 08/20/2025
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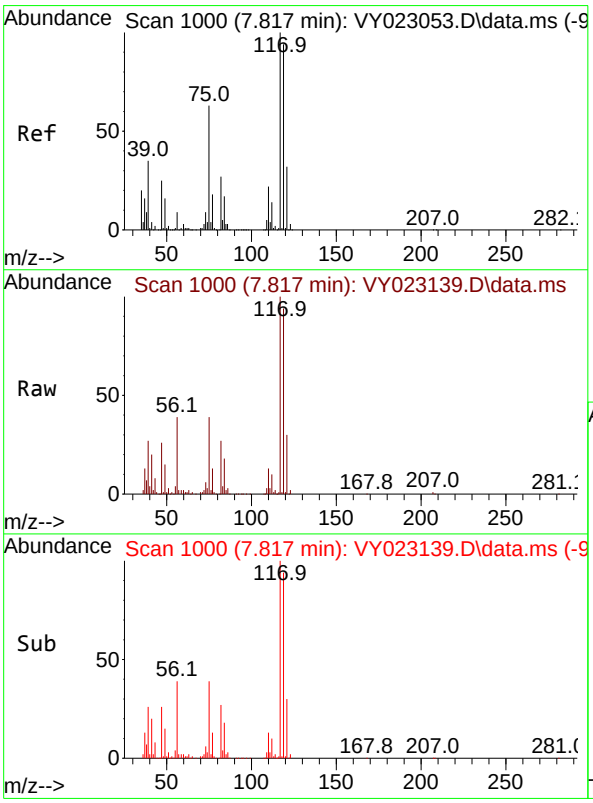
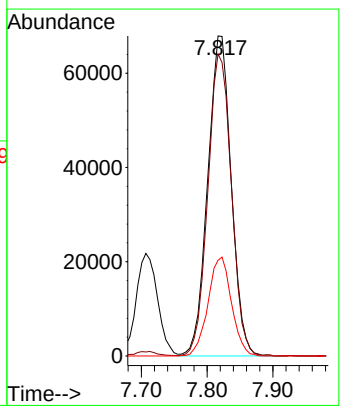
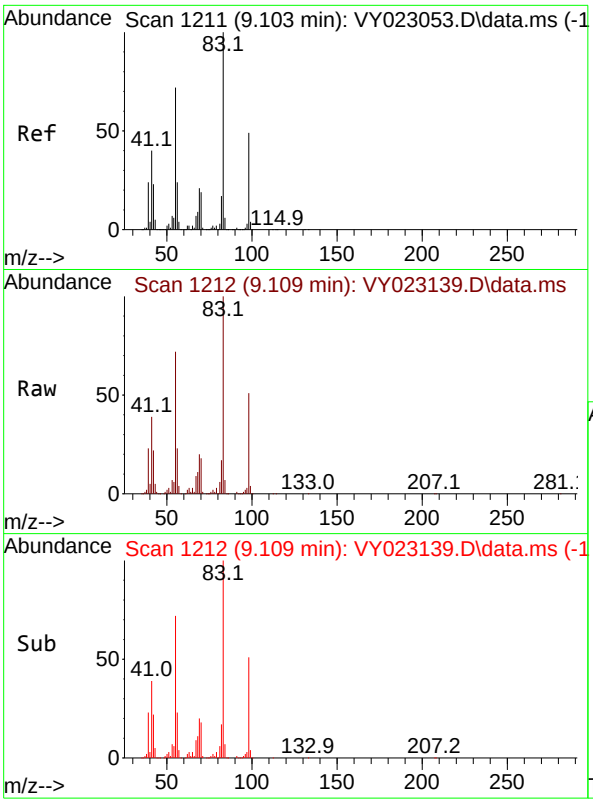



#38
Carbon Tetrachloride
Concen: 21.430 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:117 Resp: 169089

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.3 | 75.6 | 113.4 |
| 121 | 29.9 | 25.8 | 38.8 |






#39
Methylcyclohexane
Concen: 20.803 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 83 Resp: 19901

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 72.0 | 57.6 | 86.4 |
| 98 | 50.6 | 39.2 | 58.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

**Manual Integrations**
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Reviewed By :John Carlone 08/20/2025
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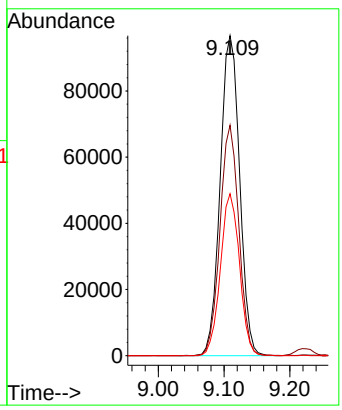
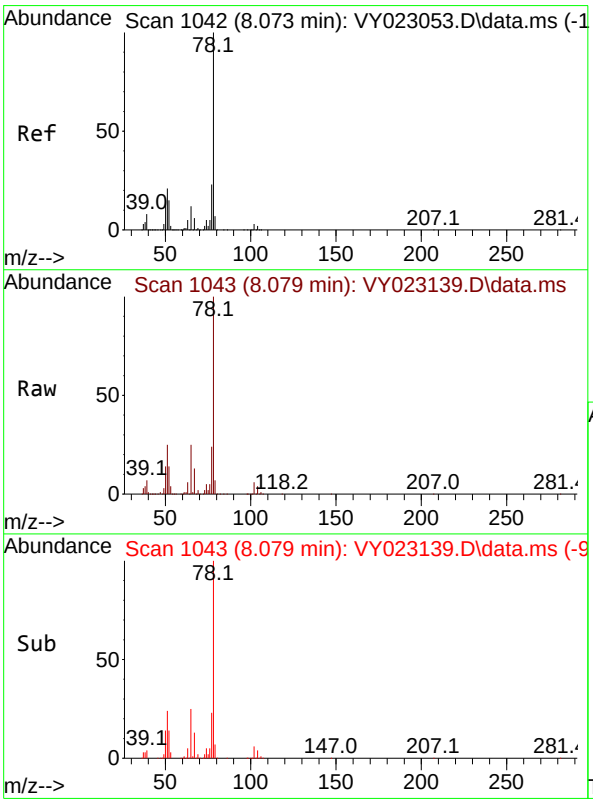
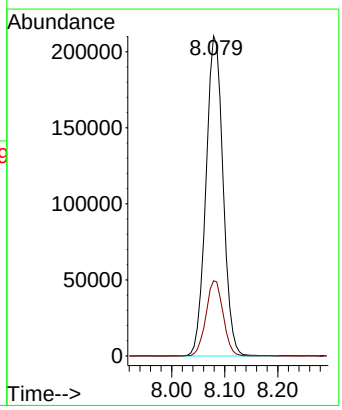


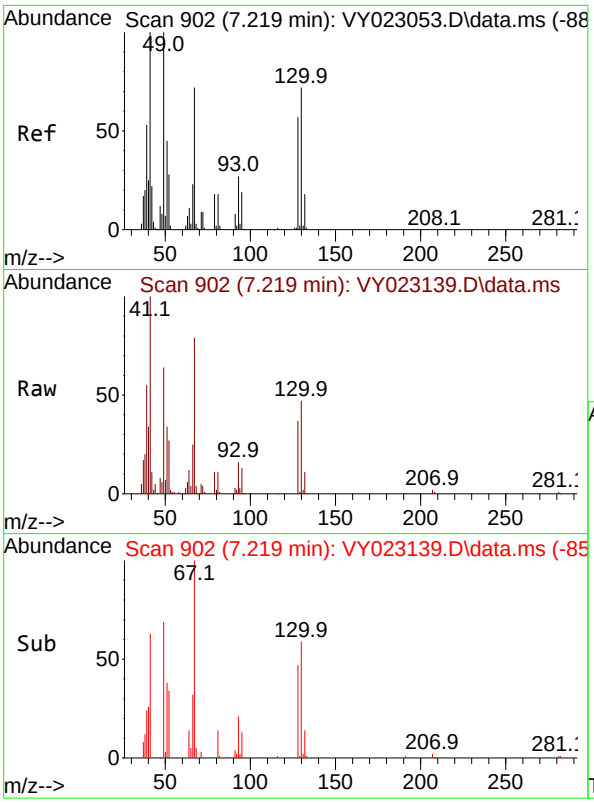




#40
Benzene
Concen: 21.055 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 78 Resp: 471421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.5 | 18.6 | 28.0 |

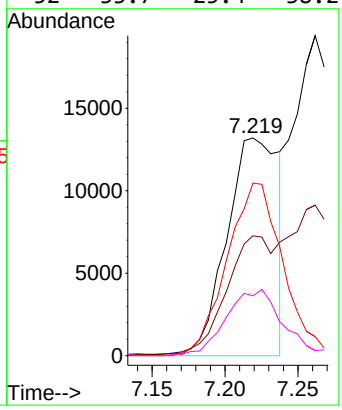





#41
Methacrylonitrile
Concen: 18.482 ug/l m
RT: 7.219 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 41 Resp: 3254

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 47.7 | 43.4 | 65.2 |
| 67 | 86.5 | 63.6 | 95.4 |
| 52 | 33.7 | 25.4 | 38.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 08/20/2025
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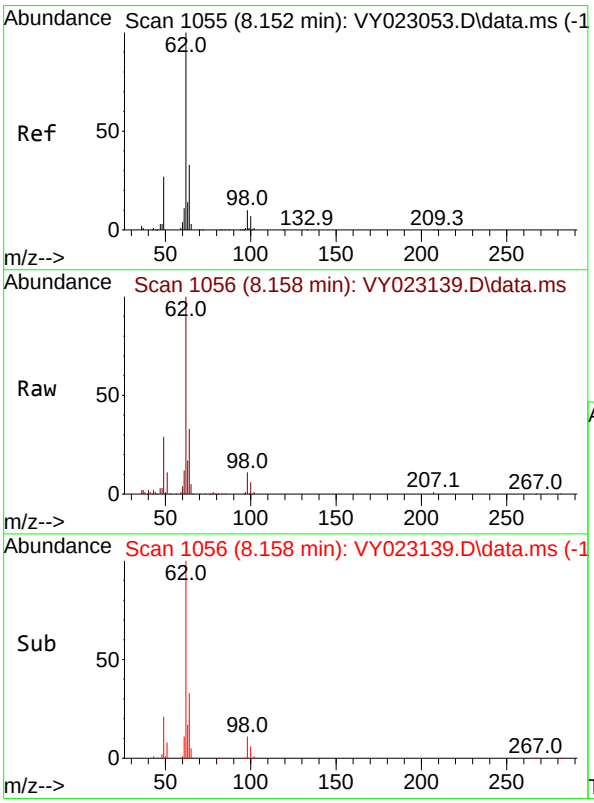
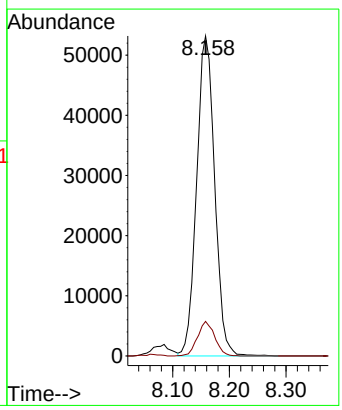
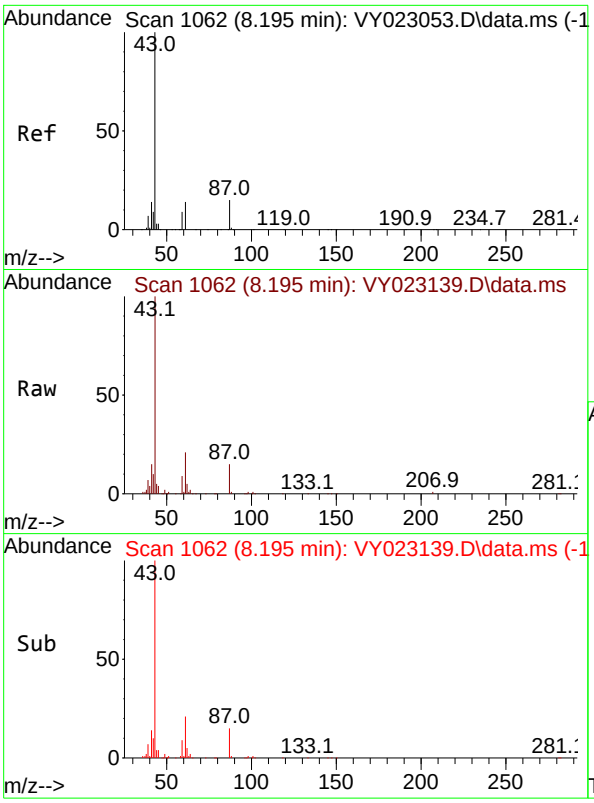



#42
1,2-Dichloroethane
Concen: 20.187 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 62 Resp: 117552

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.4 | 0.0 | 20.6 |

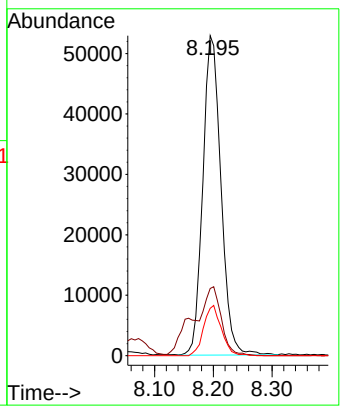





#43
Isopropyl Acetate
Concen: 18.431 ug/l
RT: 8.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 43 Resp: 11368

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 20.5 | 16.4 | 24.6 |
| 87 | 15.4 | 11.8 | 17.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

**Manual Integrations**
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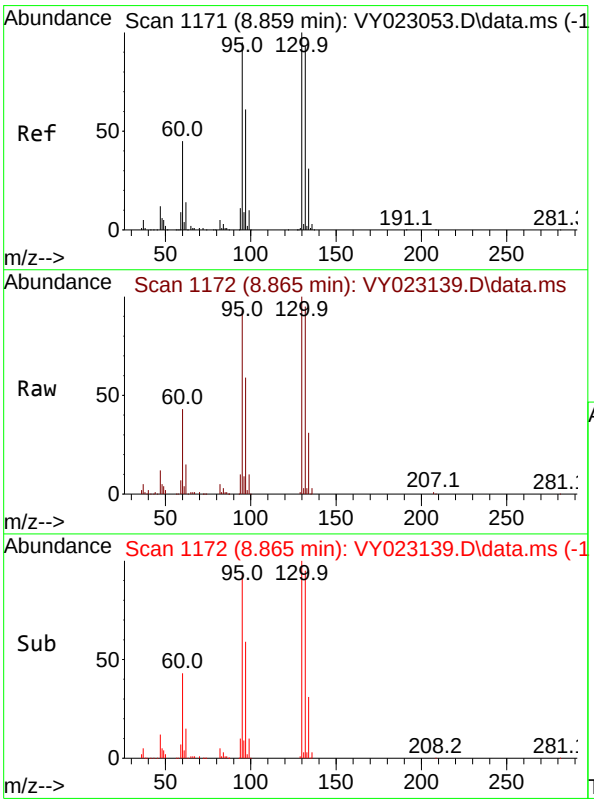
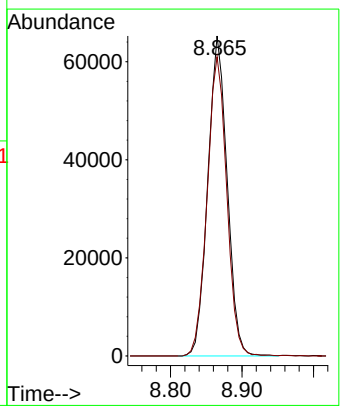
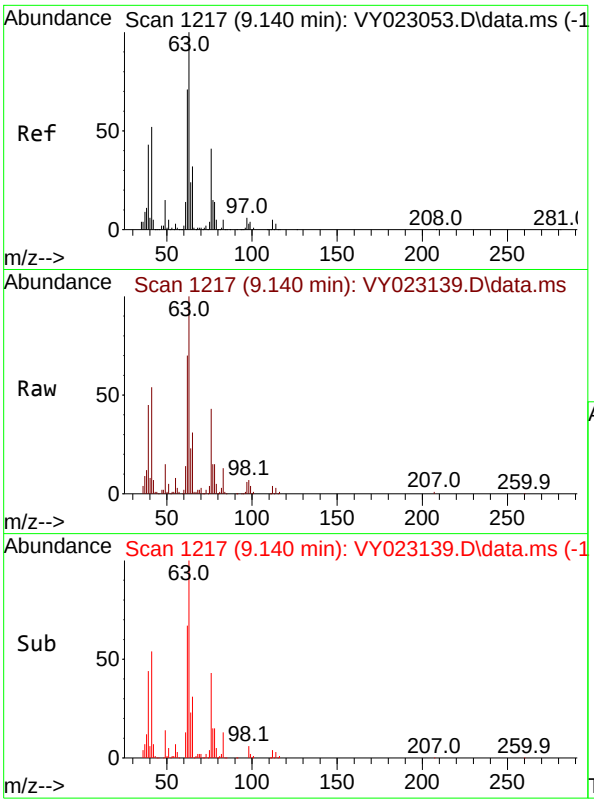



#44
Trichloroethene
Concen: 21.187 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:130 Resp: 122590

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 93.5 | 0.0 | 190.2 |

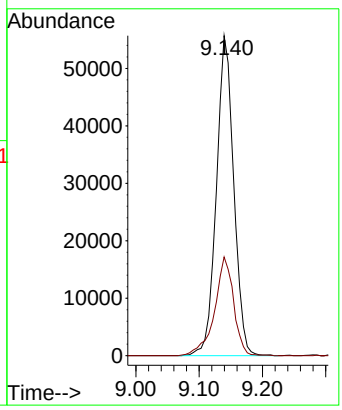





#45
1,2-Dichloropropane
Concen: 20.506 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 63 Resp: 10564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.9 | 25.3 | 37.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

**Manual Integrations**
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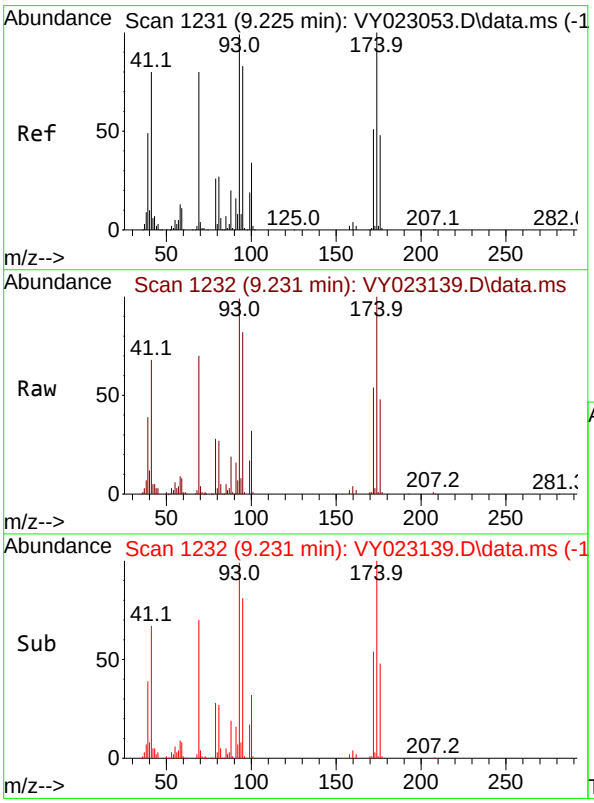
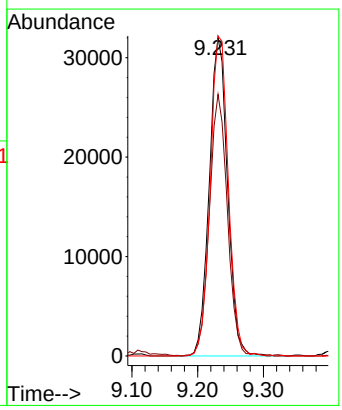
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

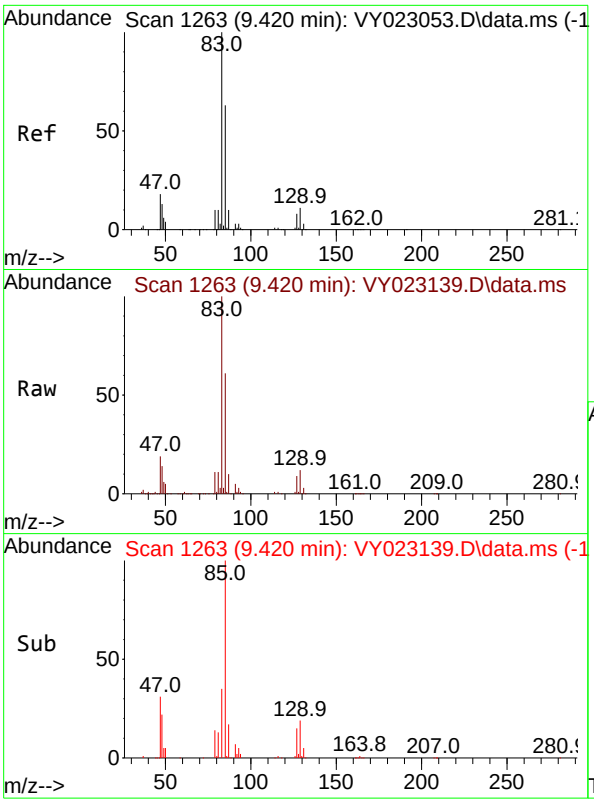



#46
Dibromomethane
Concen: 20.972 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 93 Resp: 62014

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 81.1 | 66.5 | 99.7 |
| 174 | 99.4 | 81.8 | 122.8 |

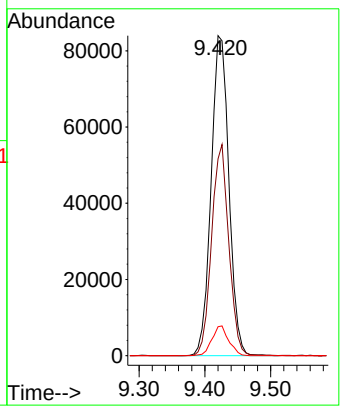





#47
Bromodichloromethane
Concen: 20.725 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 83 Resp: 15769

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 61.5 | 50.2 | 75.4 |
| 127 | 9.1 | 6.6 | 10.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

**Manual Integrations**
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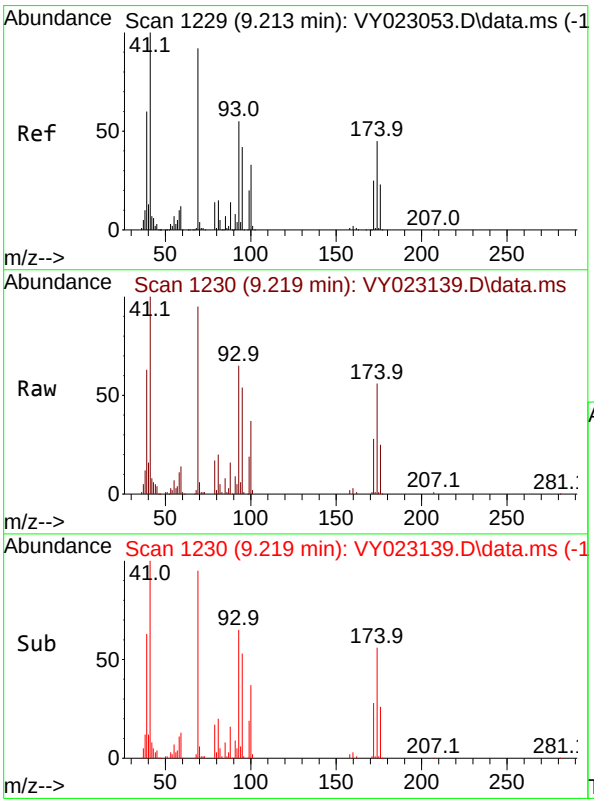
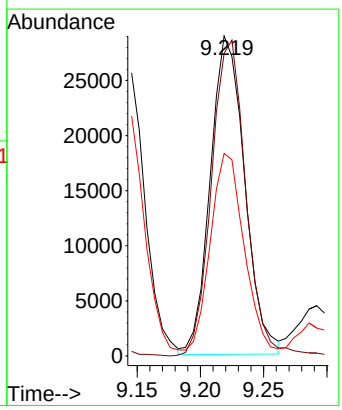
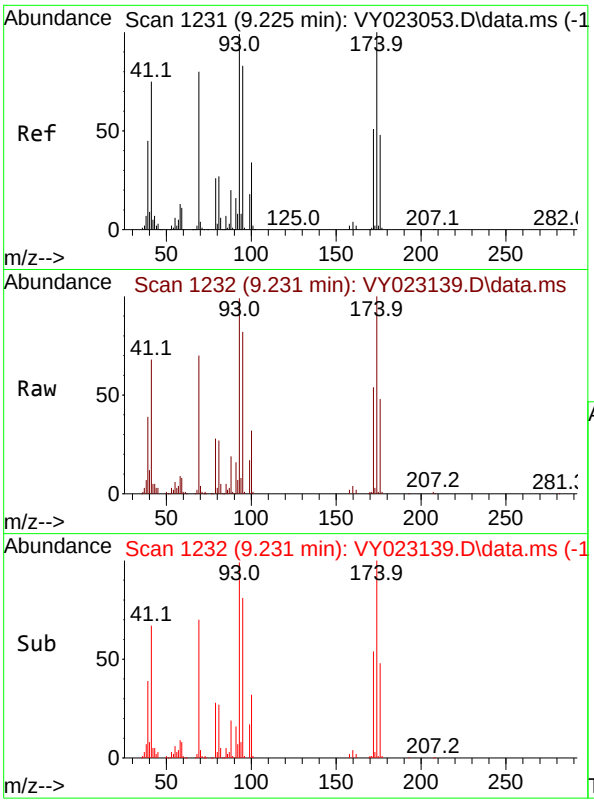



#48
Methyl methacrylate
Concen: 18.499 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 41 Resp: 54599

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 99.3 | 73.2 | 109.8 |
| 39 | 62.8 | 47.0 | 70.4 |






#49
1,4-Dioxane
Concen: 383.459 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 88 Resp: 1329

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 29.3 | 24.3 | 36.5 |
| 58 | 65.0 | 55.4 | 83.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

**Manual Integrations**
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Reviewed By :John Carlone 08/20/2025
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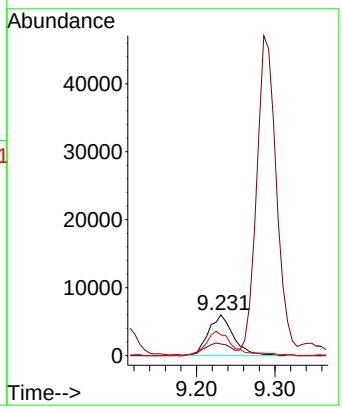
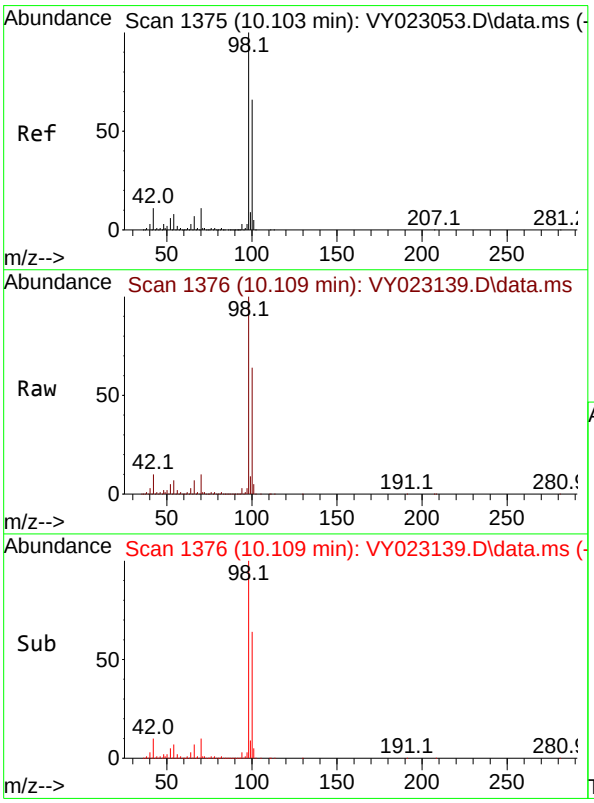
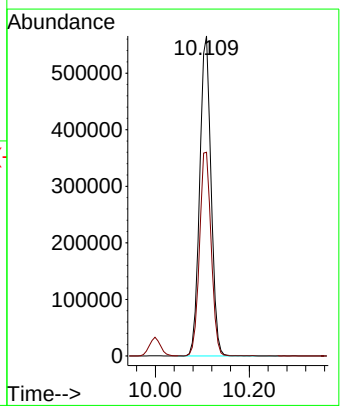


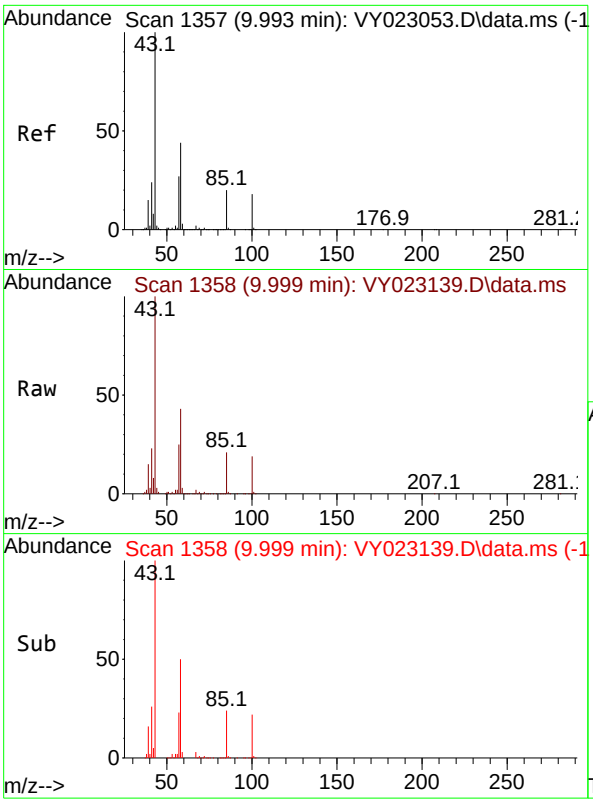




#50
Toluene-d8
Concen: 49.608 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 98 Resp: 947313

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.4 | 52.3 | 78.5 |

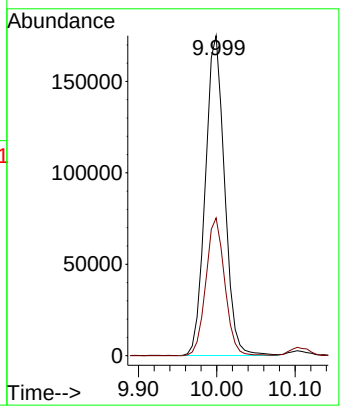





#51
4-Methyl-2-Pentanone
Concen: 93.721 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 43 Resp: 29817

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 42.3 | 33.5 | 50.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

**Manual Integrations**
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Reviewed By :John Carlone 08/20/2025
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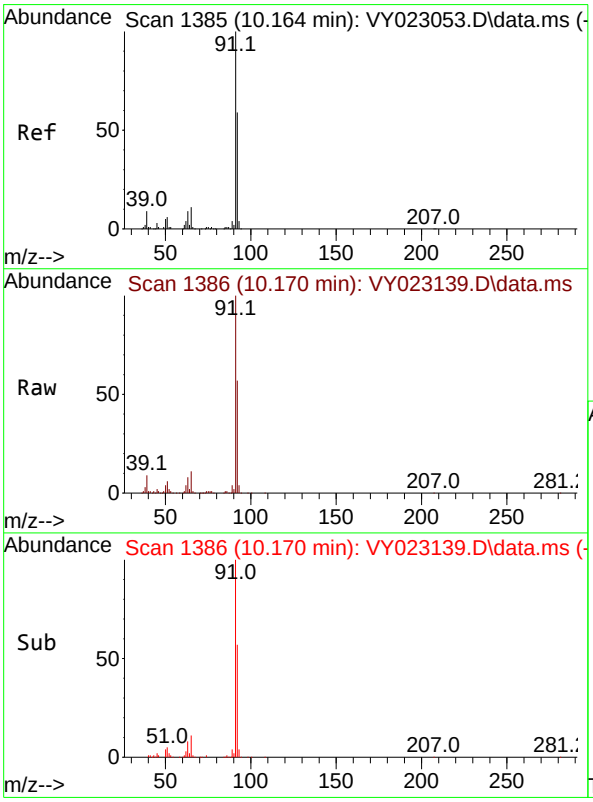
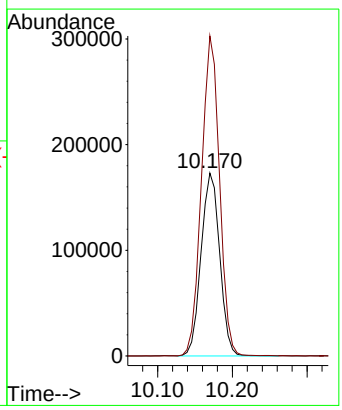
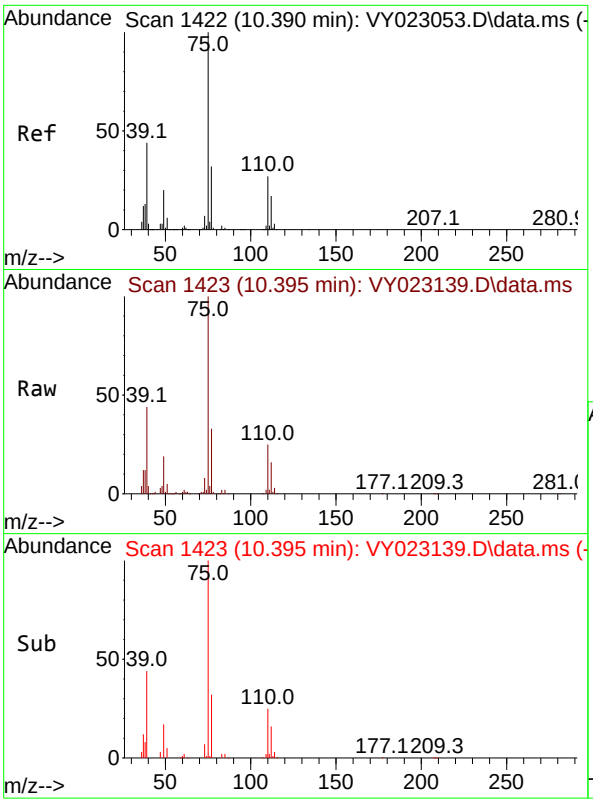



#52
Toluene
Concen: 21.028 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 92 Resp: 299030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 169.8 | 136.4 | 204.6 |

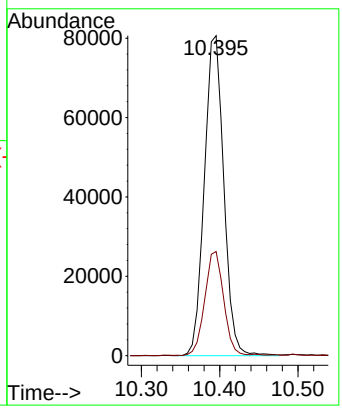





#53
t-1,3-Dichloropropene
Concen: 20.144 ug/l
RT: 10.395 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 75 Resp: 13879

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.4 | 25.7 | 38.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

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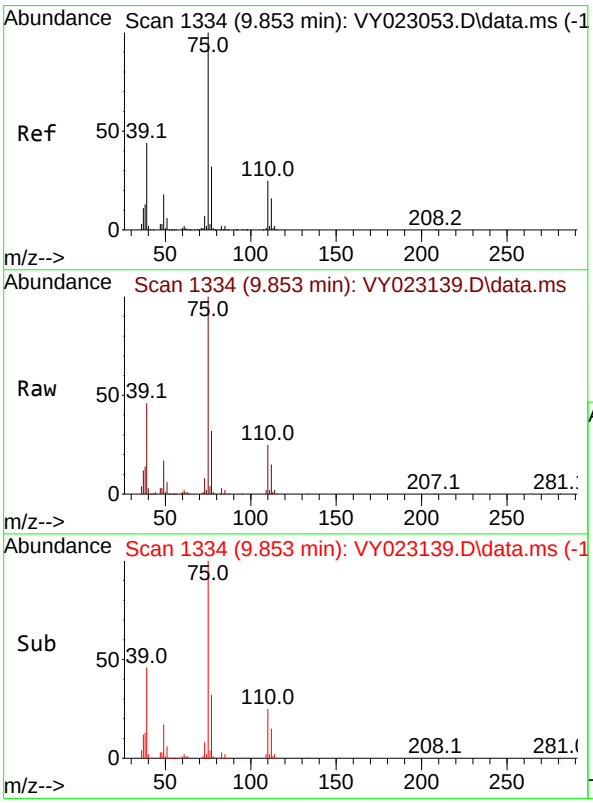
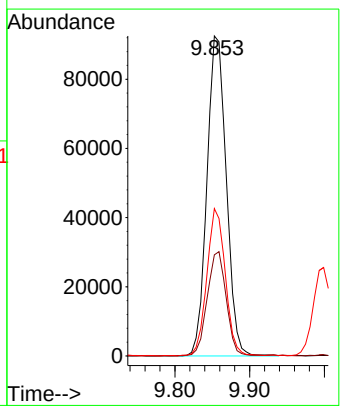
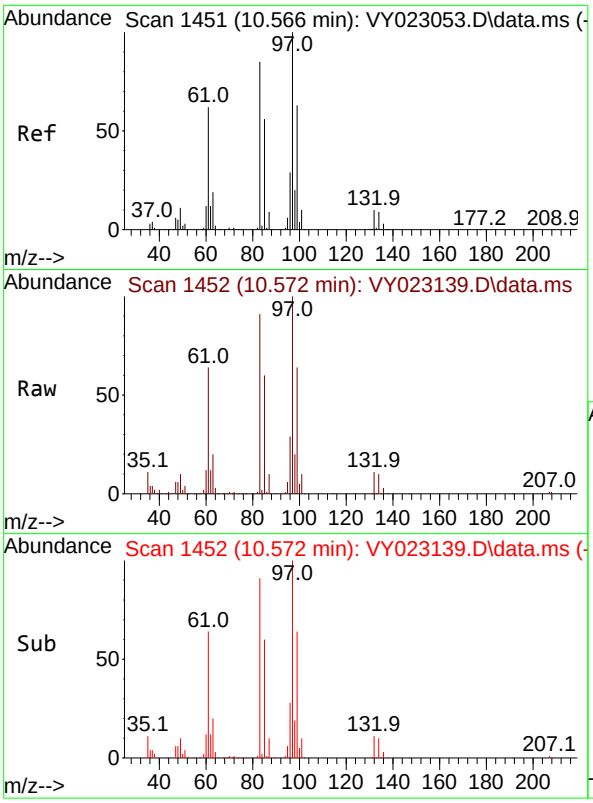



#54
cis-1,3-Dichloropropene
Concen: 20.453 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 75 Resp: 166637

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.5 | 25.4 | 38.0 |
| 39 | 46.0 | 35.6 | 53.4 |

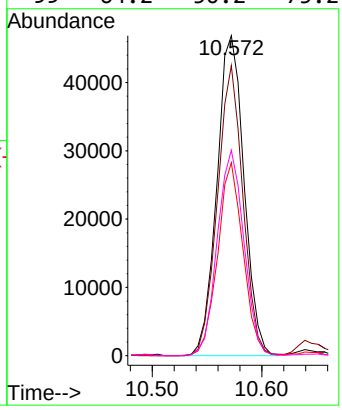





#55
1,1,2-Trichloroethane
Concen: 20.350 ug/l
RT: 10.572 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 97 Resp: 8052

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 90.7 | 67.7 | 101.5 |
| 85 | 60.3 | 44.5 | 66.7 |
| 99 | 64.2 | 50.2 | 75.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

**Manual Integrations**
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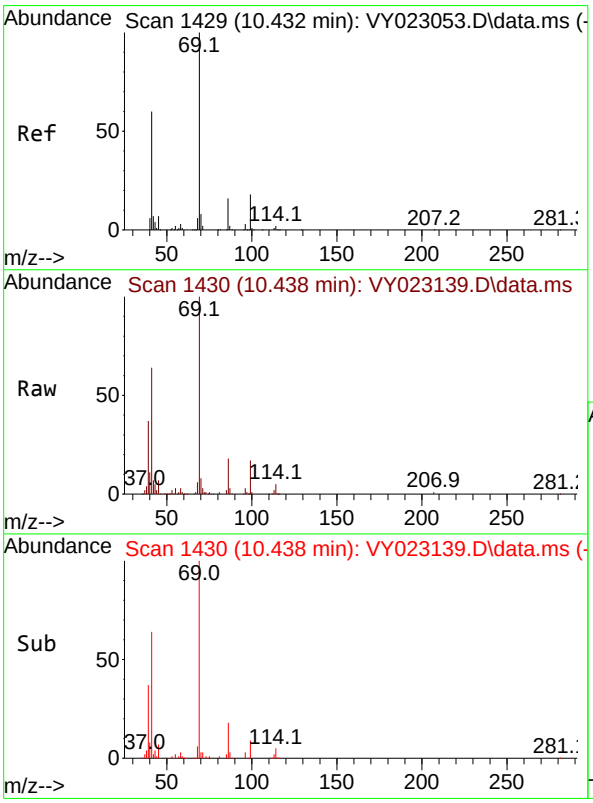
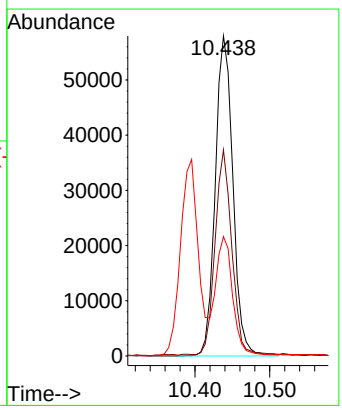
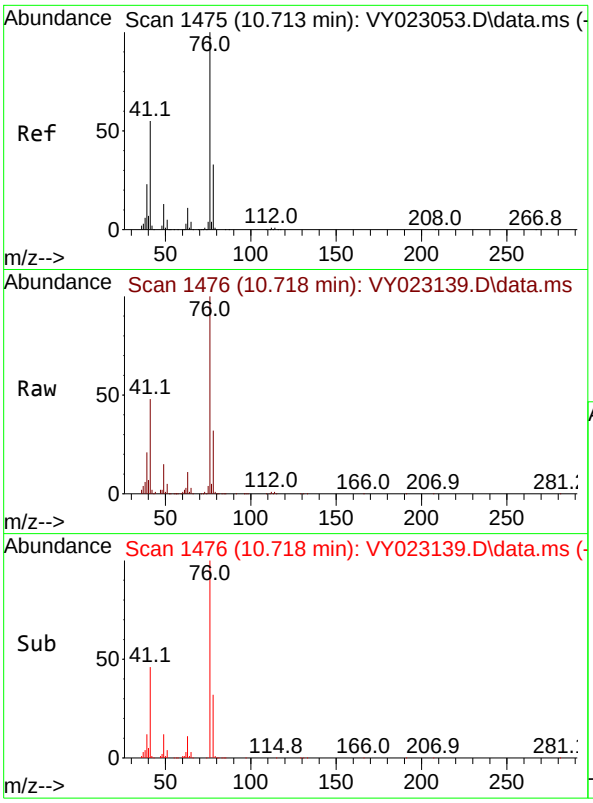



#56
Ethyl methacrylate
Concen: 18.741 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 69 Resp: 94888

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 61.1 | 48.6 | 72.8 |
| 39 | 34.5 | 27.0 | 40.4 |






#57
1,3-Dichloropropane
Concen: 20.594 ug/l
RT: 10.718 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 76 Resp: 13819

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 31.3 | 26.0 | 39.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

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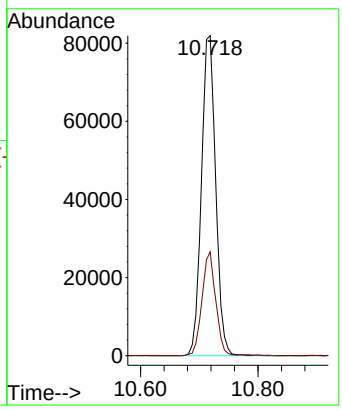
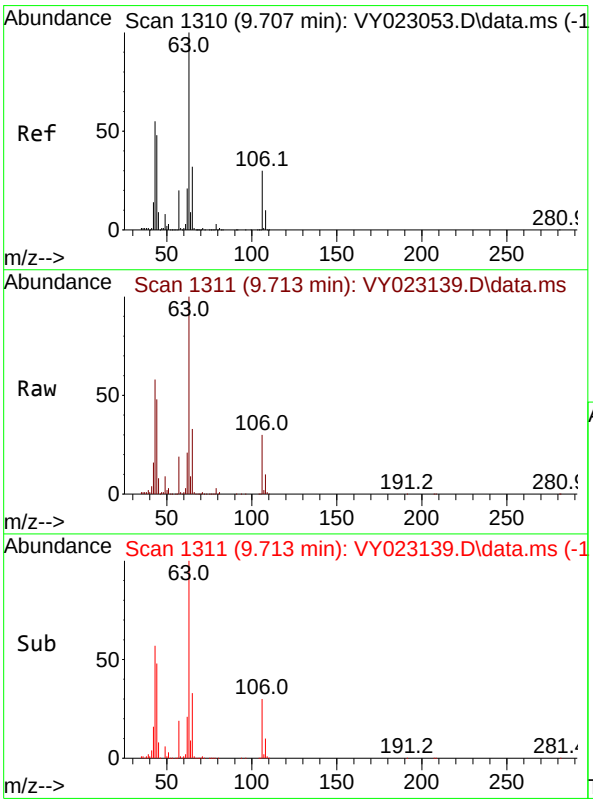
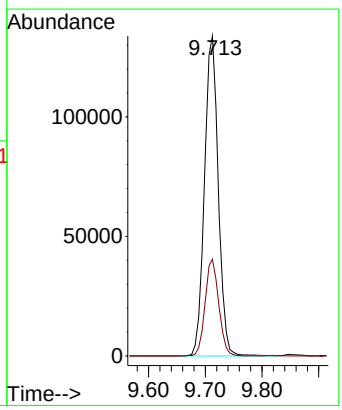


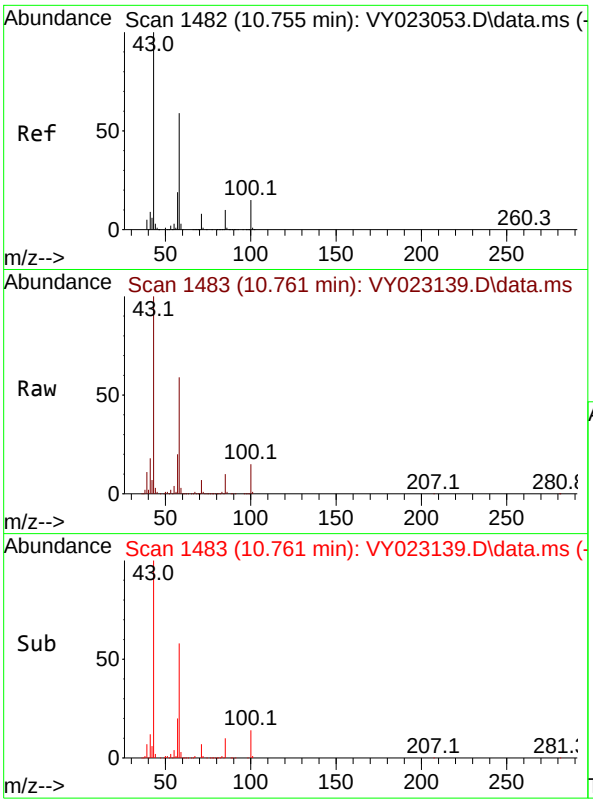




#58
2-Chloroethyl Vinyl ether
Concen: 94.672 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 63 Resp: 226098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 29.8 | 23.2 | 34.8 |






#59
2-Hexanone
Concen: 99.034 ug/l
RT: 10.761 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 43 Resp: 21454

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 59.3 | 29.5 | 88.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

**Manual Integrations**
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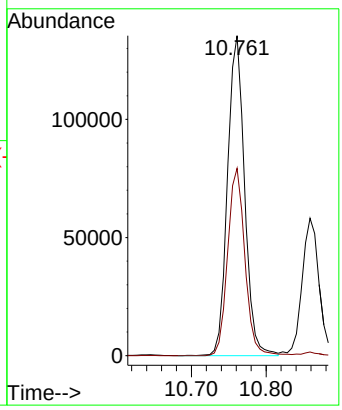
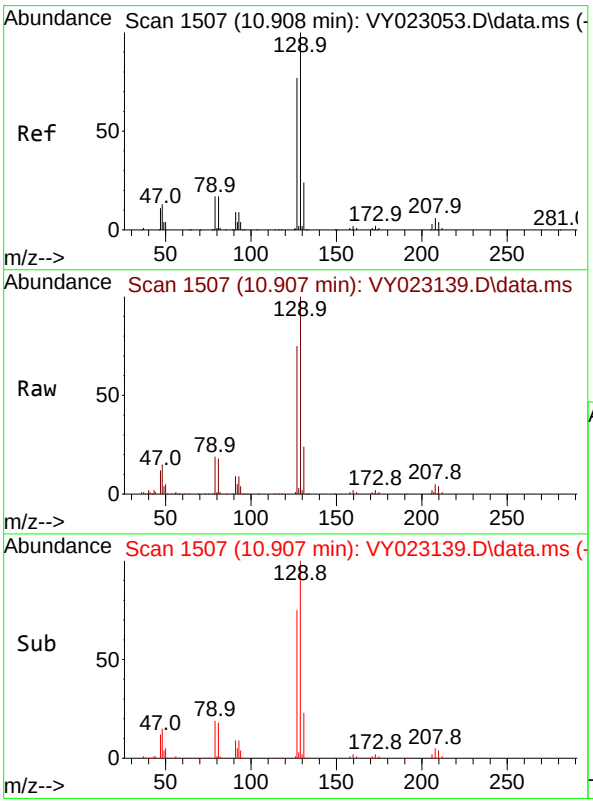
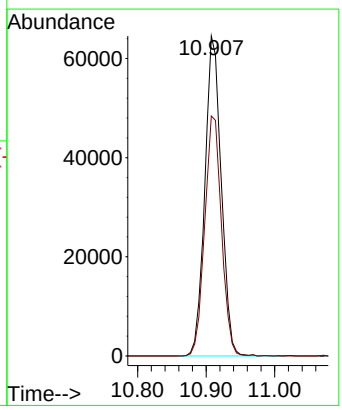


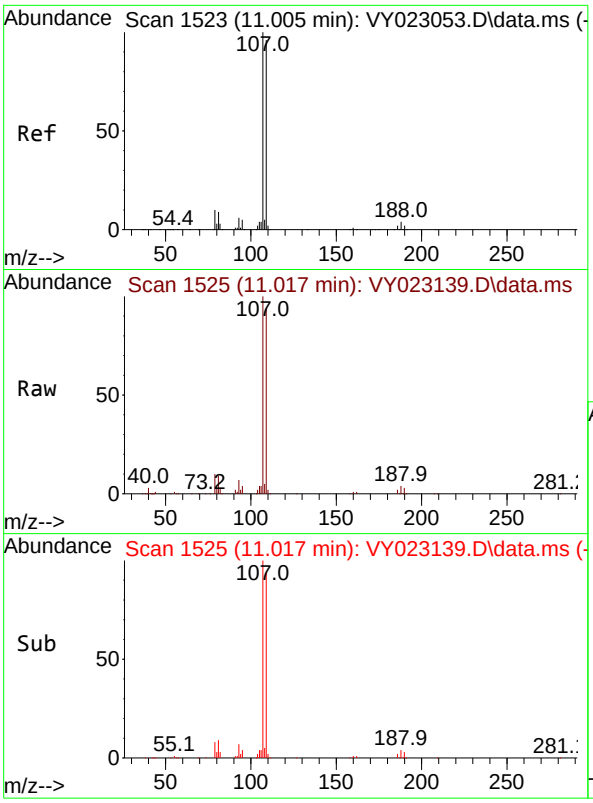




#60
Dibromochloromethane
Concen: 20.554 ug/l
RT: 10.907 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:129 Resp: 107311

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 76.8 | 38.5 | 115.5 |

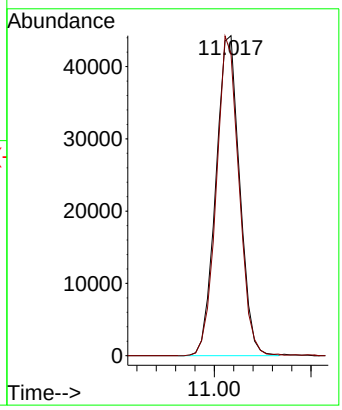





#61
1,2-Dibromoethane
Concen: 20.280 ug/l
RT: 11.017 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:107 Resp: 7541

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.9 | 75.6 | 113.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

**Manual Integrations**
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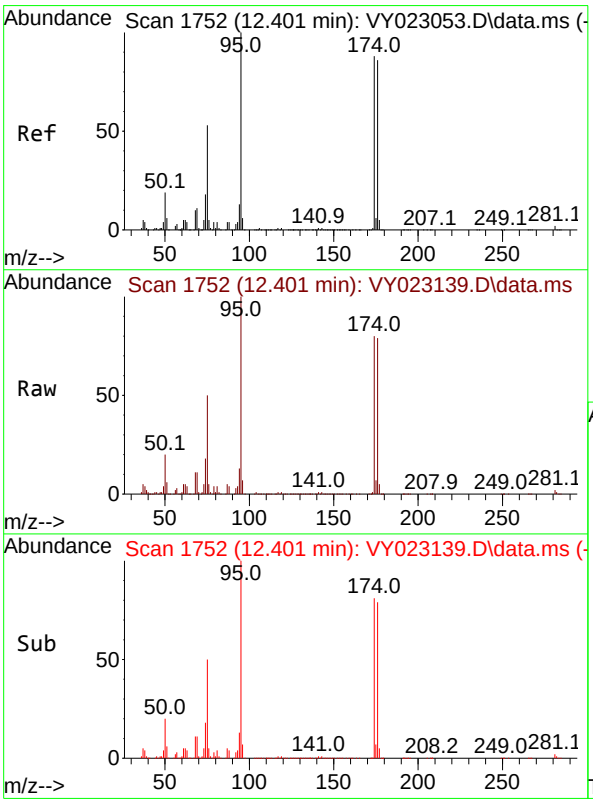
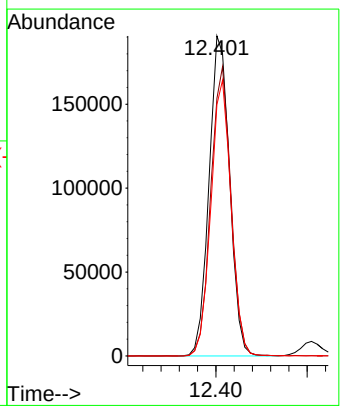
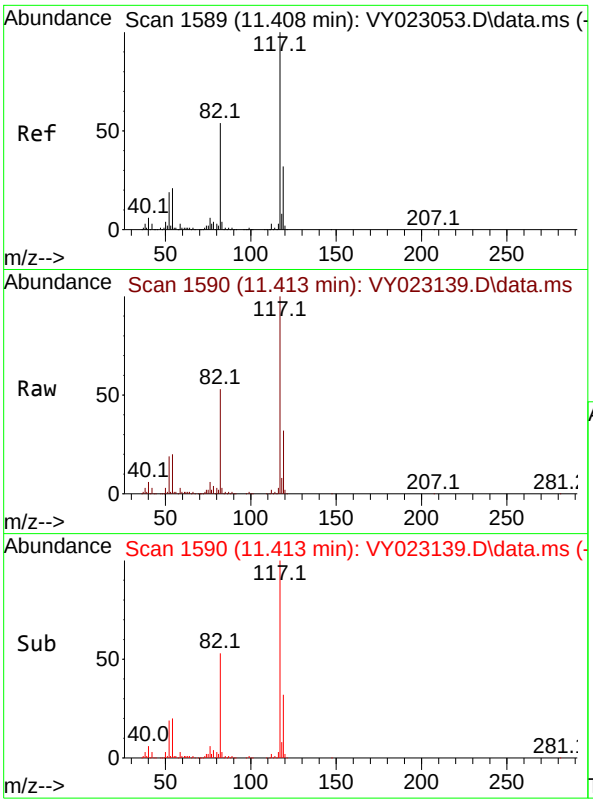



#62
4-Bromofluorobenzene
Concen: 48.544 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 95 Resp: 298119

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 88.9 | 0.0 | 171.6 |
| 176 | 85.0 | 0.0 | 167.6 |

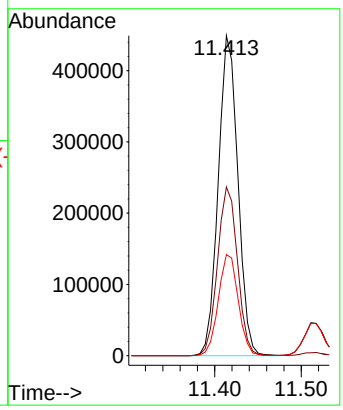





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.413 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:117 Resp: 70720

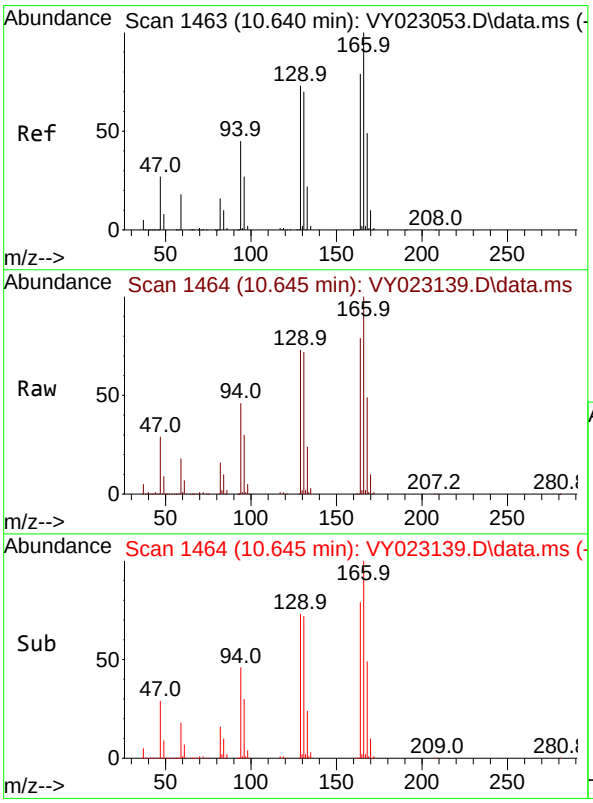
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 52.7 | 43.4 | 65.0 |
| 119 | 31.6 | 25.6 | 38.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

**Manual Integrations**
**APPROVED**

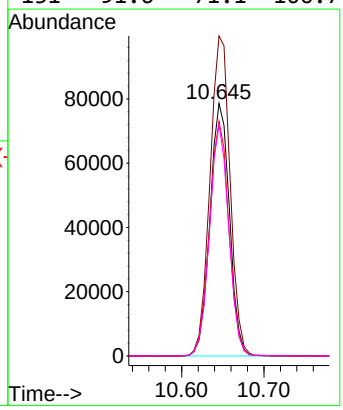
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

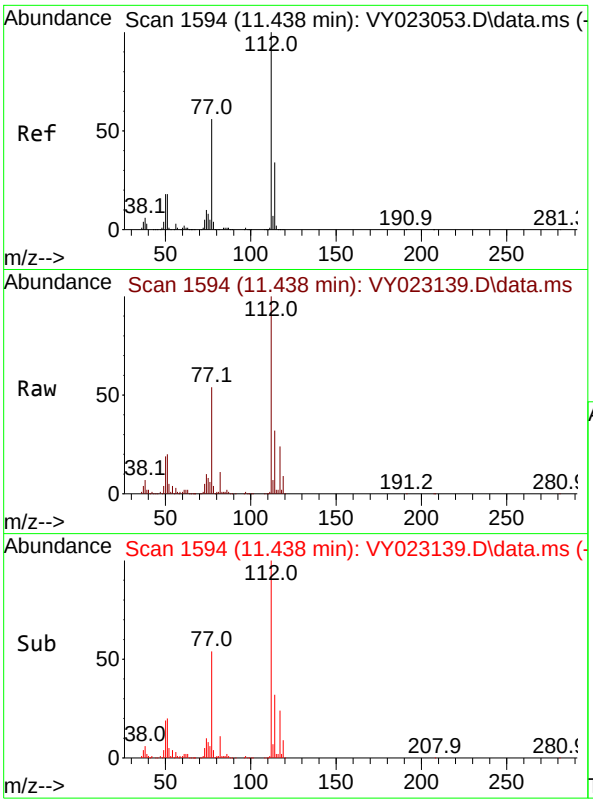



#64
Tetrachloroethene
Concen: 20.532 ug/l
RT: 10.645 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:164 Resp: 129655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 126.7 | 101.1 | 151.7 |
| 129 | 92.9 | 74.0 | 111.0 |
| 131 | 91.6 | 71.1 | 106.7 |

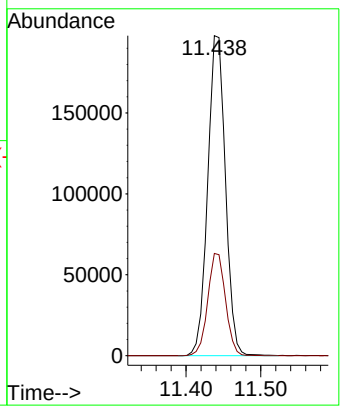





#65
Chlorobenzene
Concen: 21.346 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:112 Resp: 32562

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.9 | 27.0 | 40.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

**Manual Integrations**
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Reviewed By :John Carlone 08/20/2025
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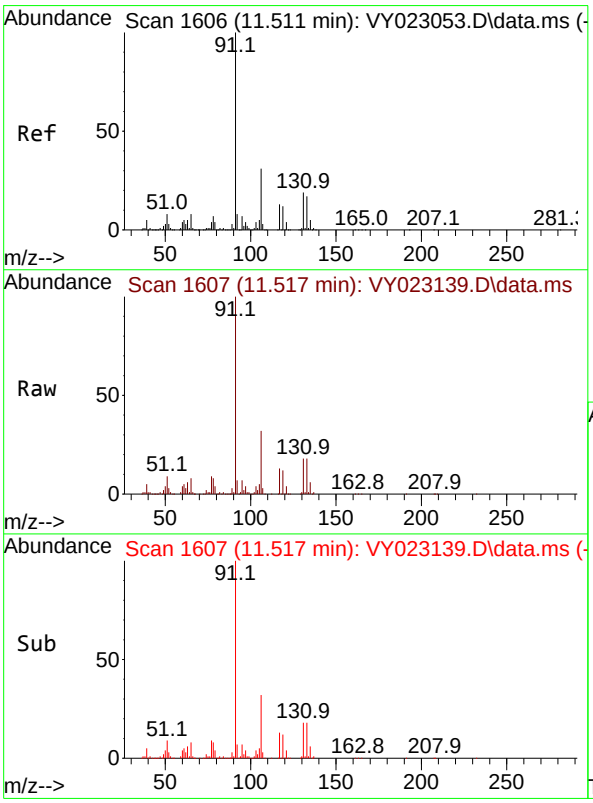
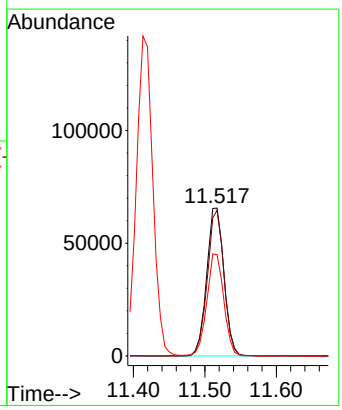
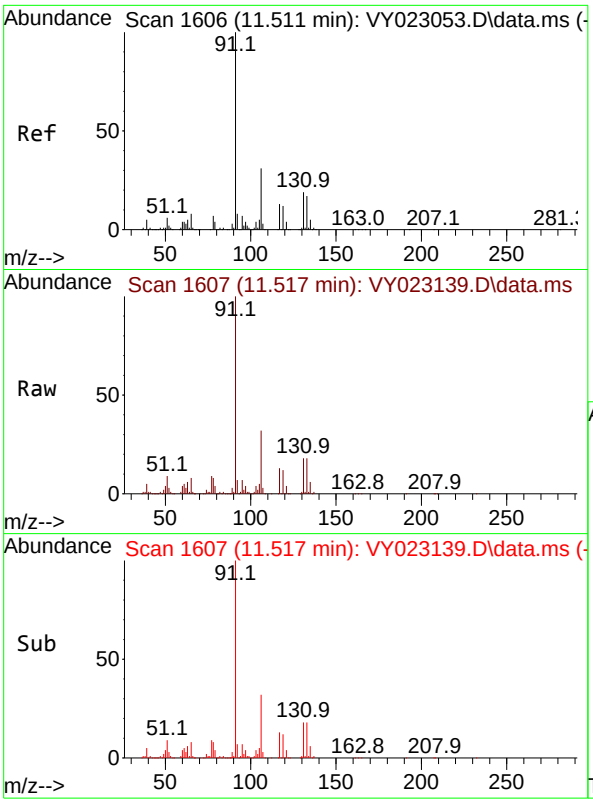



#66
1,1,1,2-Tetrachloroethane
Concen: 21.199 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:131 Resp: 109752

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.3 | 46.9 | 140.6 |
| 119 | 67.9 | 33.2 | 99.6 |

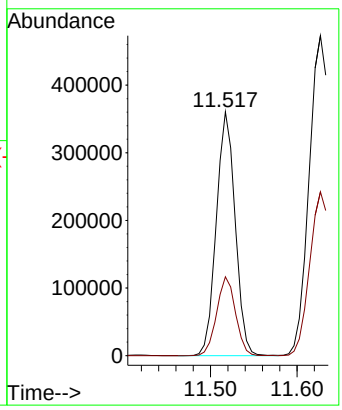





#67
Ethyl Benzene
Concen: 20.767 ug/l
RT: 11.517 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 91 Resp: 54517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 32.4 | 25.0 | 37.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

**Manual Integrations**
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Reviewed By :John Carlone 08/20/2025
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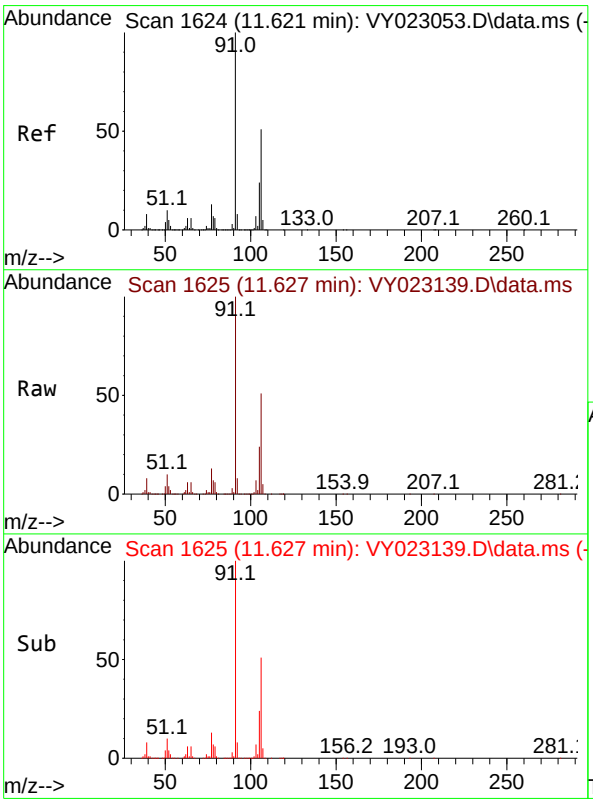
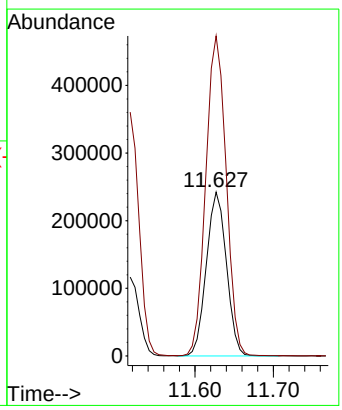
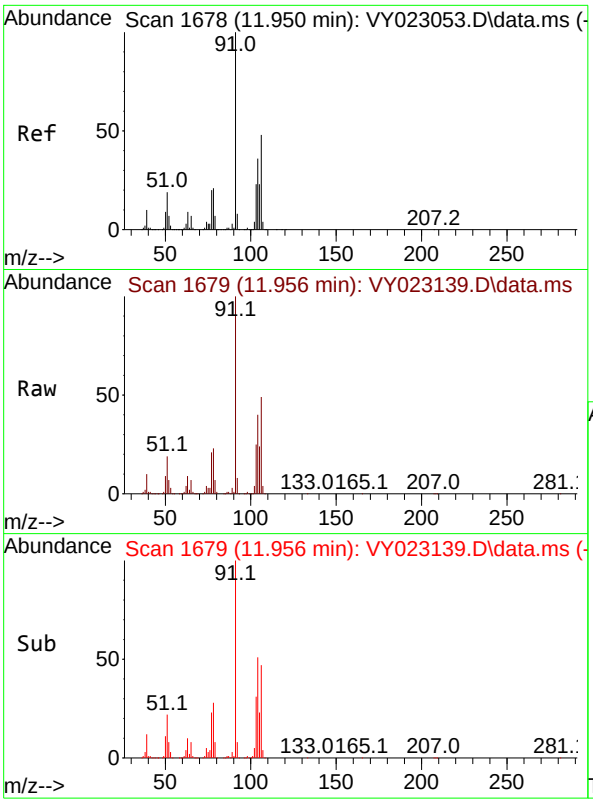



#68
m/p-Xylenes
Concen: 41.951 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:106 Resp: 430120

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 198.8 | 158.6 | 238.0 |

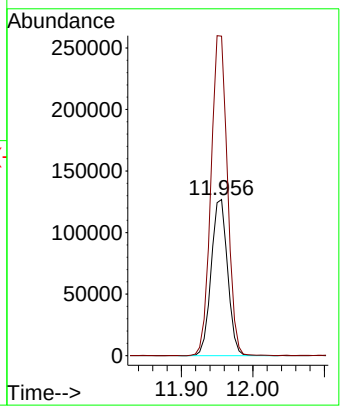





#69
o-Xylene
Concen: 21.020 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:106 Resp: 20184

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 206.0 | 103.2 | 309.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

**Manual Integrations**
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Reviewed By :John Carlone 08/20/2025
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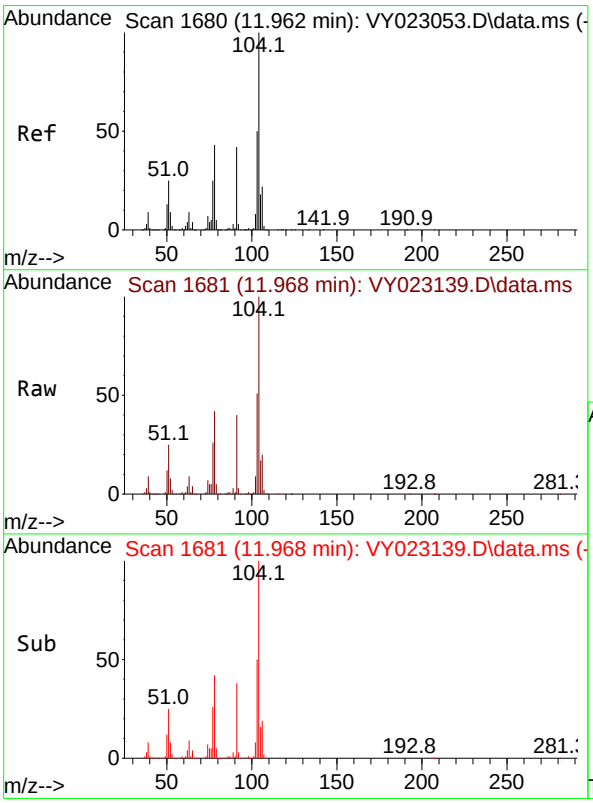
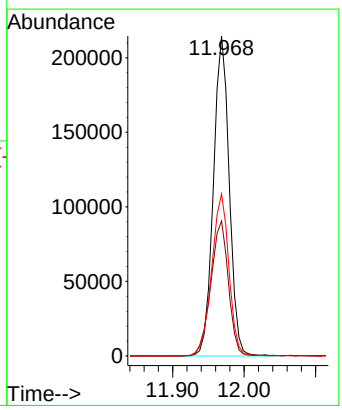
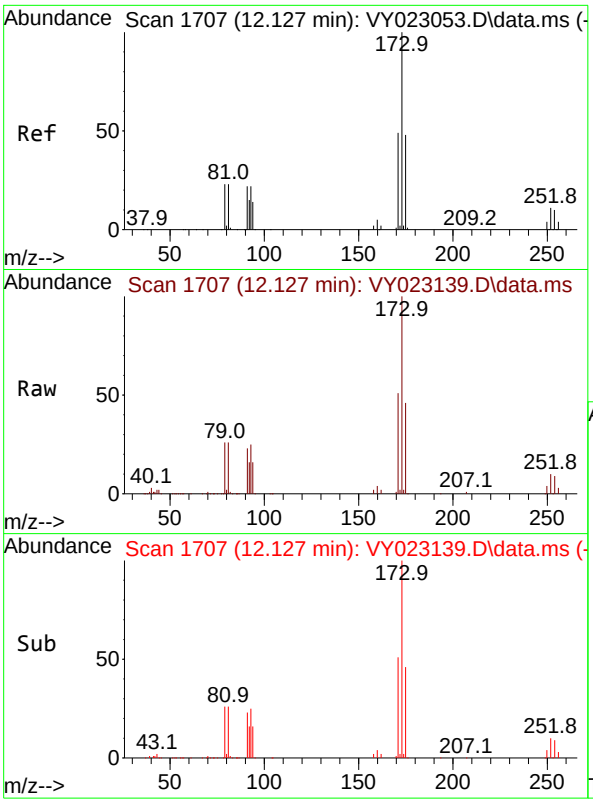



#70
Styrene
Concen: 21.028 ug/l
RT: 11.968 min Scan# 1681
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:104 Resp: 330216

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 46.9 | 38.5 | 57.7 |
| 103 | 55.0 | 43.7 | 65.5 |

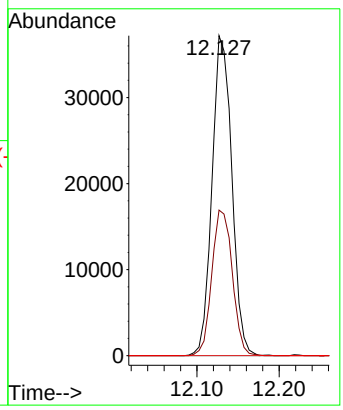





#71
Bromoform
Concen: 20.525 ug/l
RT: 12.127 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:173 Resp: 6210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.2 | 23.9 | 71.7 |
| 254 | 0.0 | 0.1 | 0.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

**Manual Integrations**
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Reviewed By :John Carlone 08/20/2025
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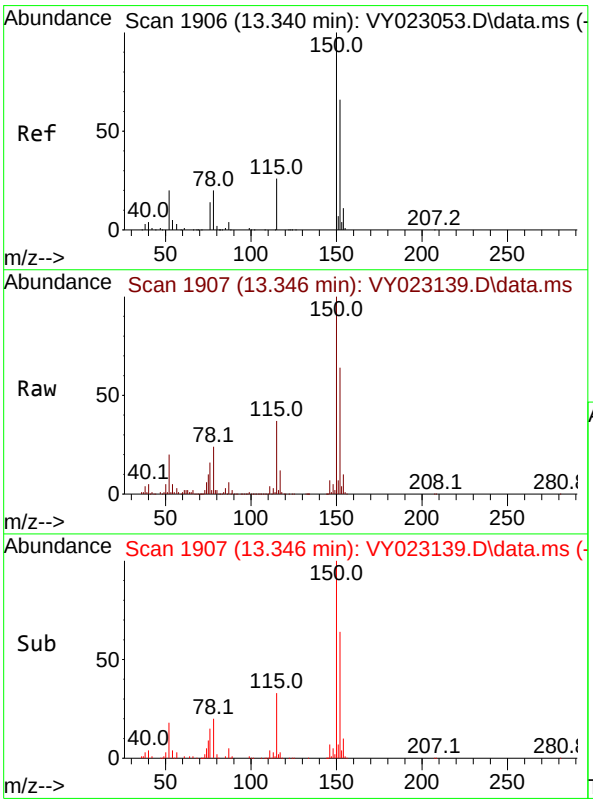
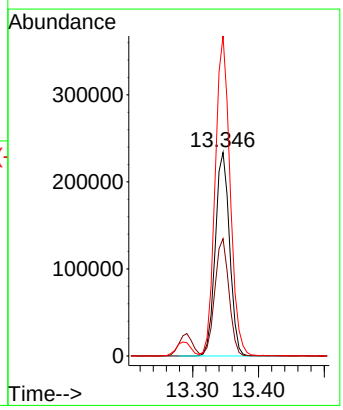
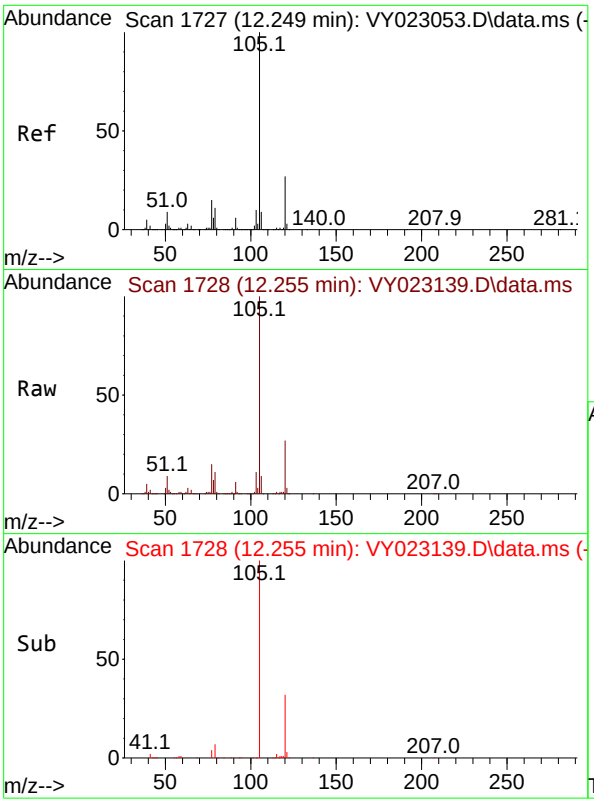



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:152 Resp: 352720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 56.8 | 28.2 | 84.6 |
| 150 | 164.2 | 0.0 | 348.0 |

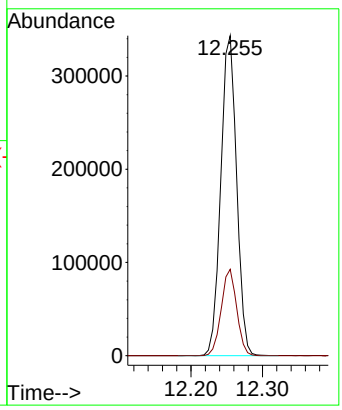





#73
Isopropylbenzene
Concen: 21.185 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:105 Resp: 52738

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.4 | 13.4 | 40.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

**Manual Integrations**
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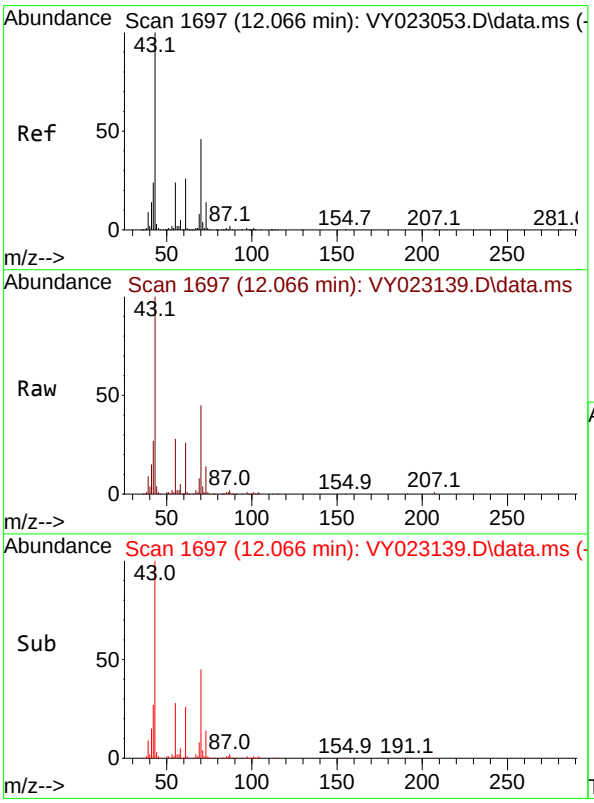
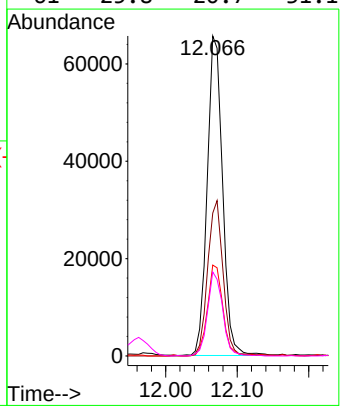
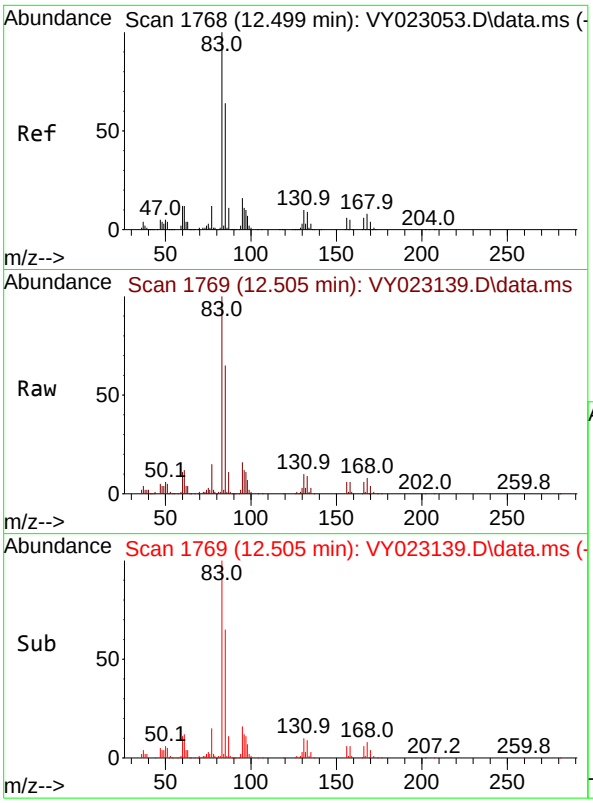



#74
N-amyl acetate
Concen: 18.632 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 43 Resp: 98366

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 48.9 | 37.5 | 56.3 |
| 55 | 28.7 | 20.7 | 31.1 |
| 61 | 25.8 | 20.7 | 31.1 |






#75
1,1,2,2-Tetrachloroethane
Concen: 20.694 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 83 Resp: 8796

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.4 | 5.1 | 15.3 |
| 85 | 62.7 | 31.8 | 95.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

**Manual Integrations**
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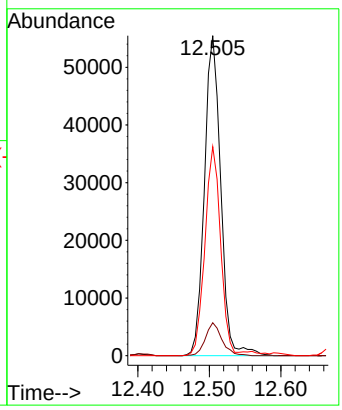
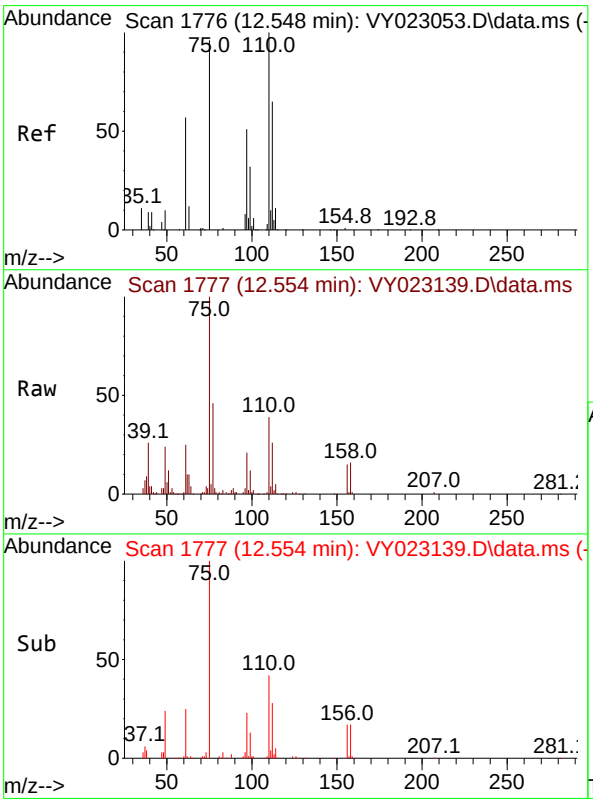
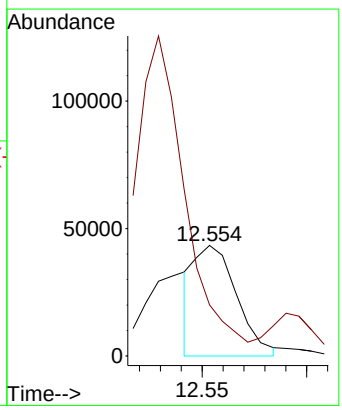


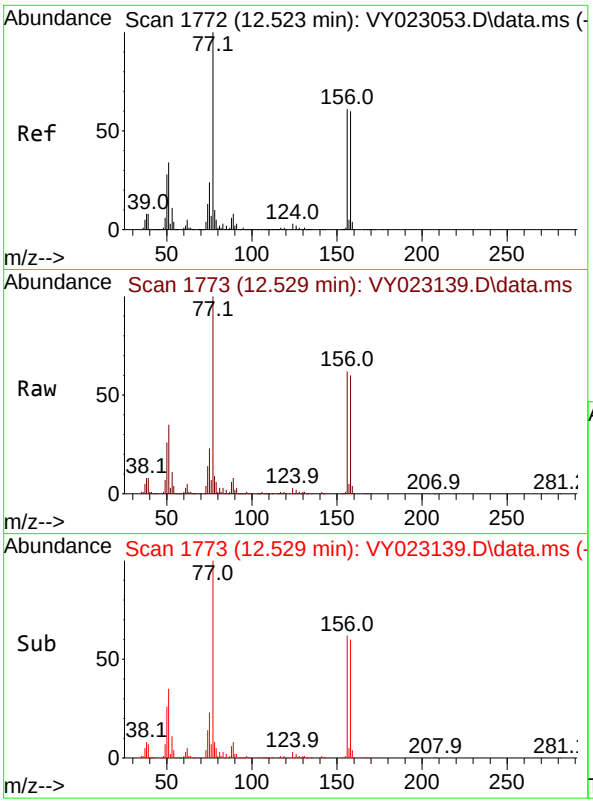




#76
1,2,3-Trichloropropane
Concen: 18.095 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 75 Resp: 61598

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |

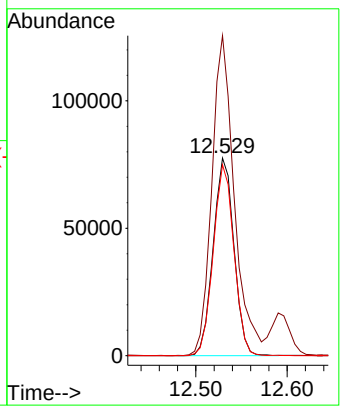





#77
Bromobenzene
Concen: 20.592 ug/l
RT: 12.529 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:156 Resp: 12229

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 174.9 | 88.1 | 264.4 |
| 158 | 96.4 | 48.0 | 144.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

**Manual Integrations**
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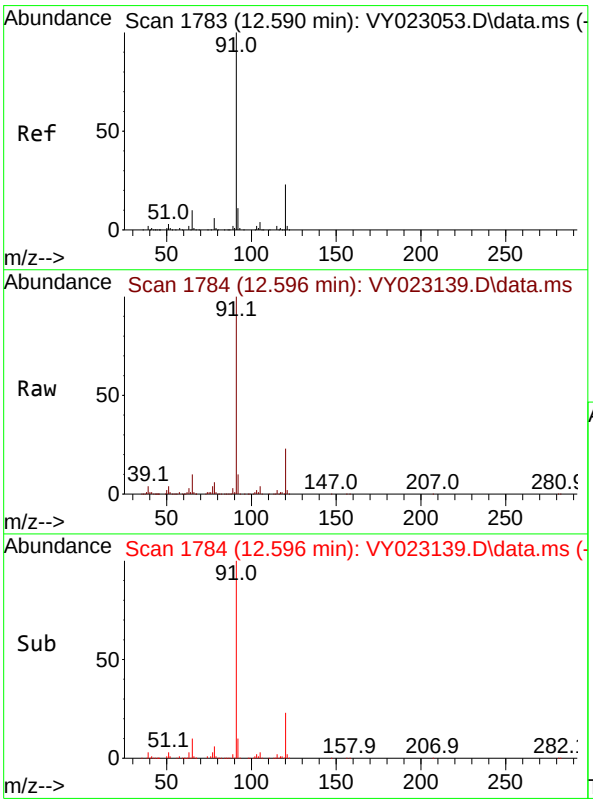
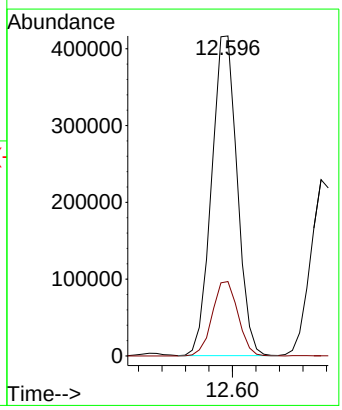
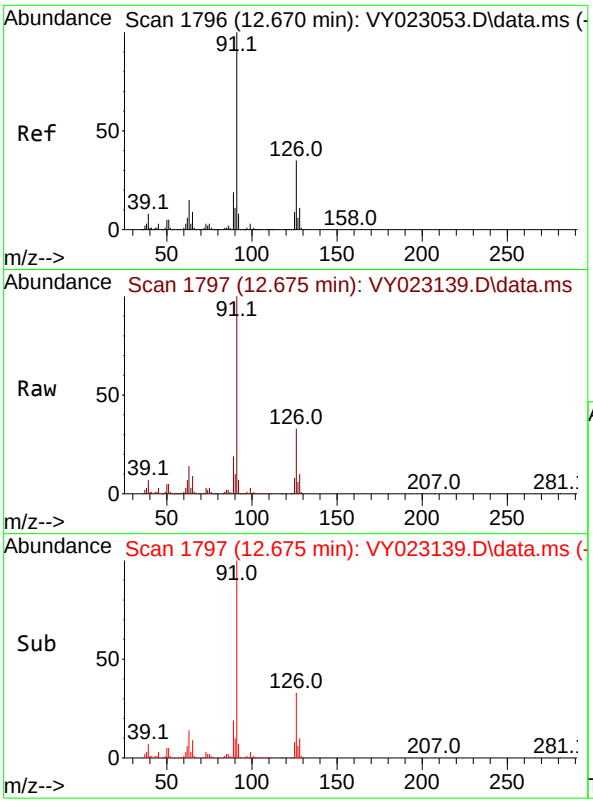



#78
n-propylbenzene
Concen: 21.255 ug/l
RT: 12.596 min Scan# 1784
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 91 Resp: 629976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 23.4 | 11.5 | 34.5 |

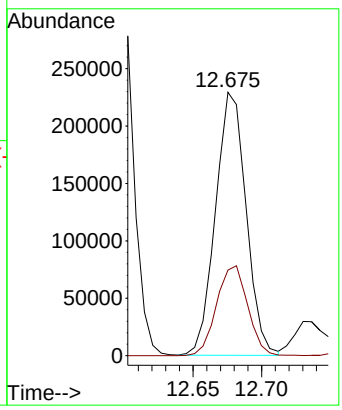





#79
2-Chlorotoluene
Concen: 20.990 ug/l
RT: 12.675 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 91 Resp: 35644

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.8 | 17.4 | 52.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

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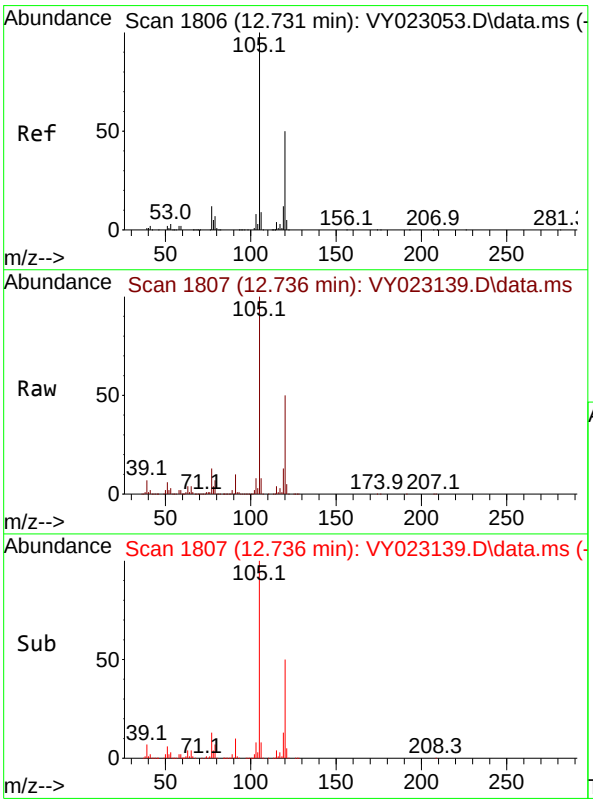
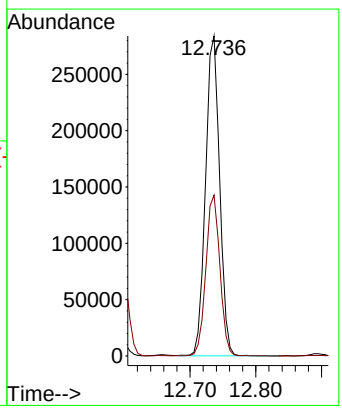
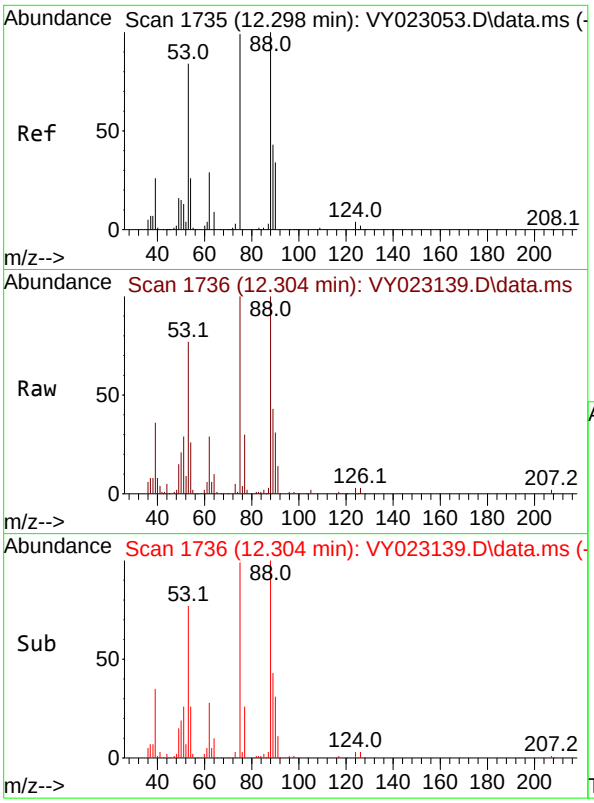



#80
1,3,5-Trimethylbenzene
Concen: 21.022 ug/l
RT: 12.736 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:105 Resp: 422945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 50.1 | 24.8 | 74.4 |

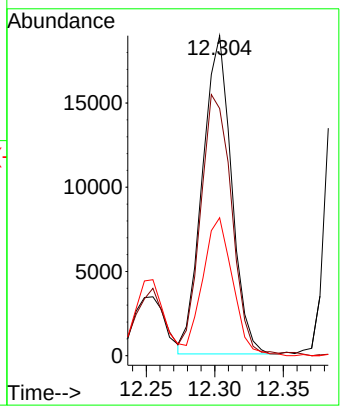





#81
trans-1,4-Dichloro-2-butene
Concen: 19.838 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 75 Resp: 2789

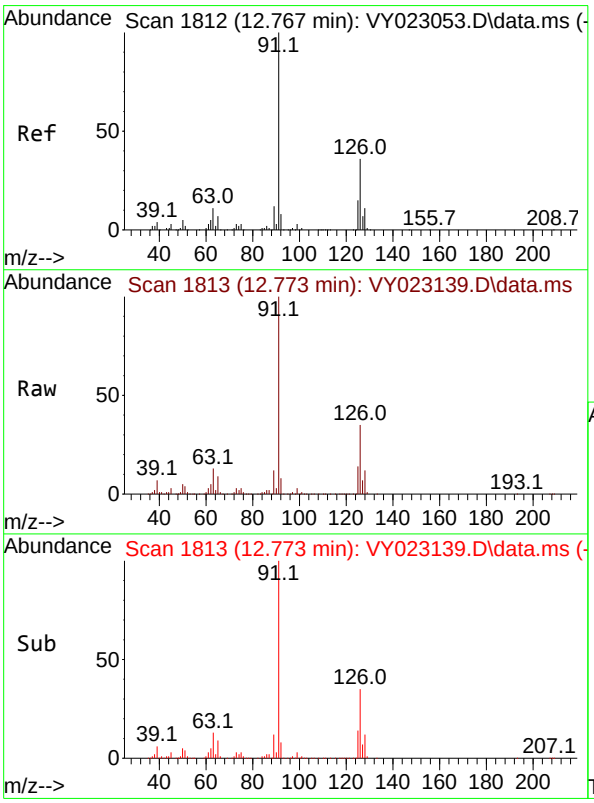
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 88.5 | 70.8 | 106.2 |
| 89 | 44.3 | 38.1 | 57.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

**Manual Integrations**
**APPROVED**

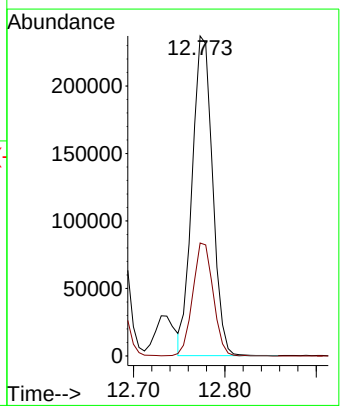
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

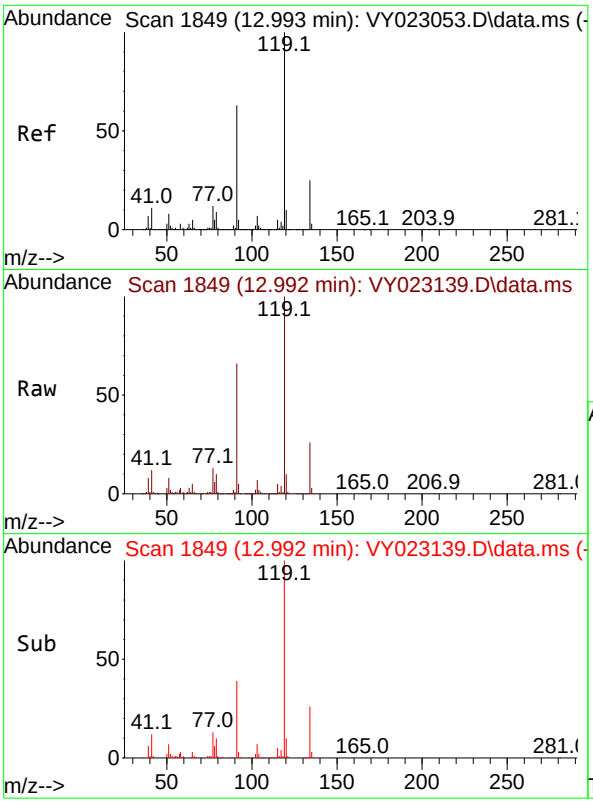



#82
4-Chlorotoluene
Concen: 20.803 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 91 Resp: 366476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.5 | 17.3 | 52.0 |

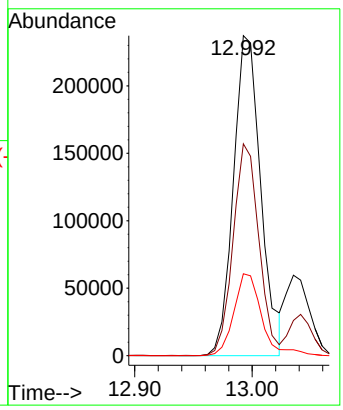





#83
tert-Butylbenzene
Concen: 21.122 ug/l
RT: 12.992 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:119 Resp: 38381

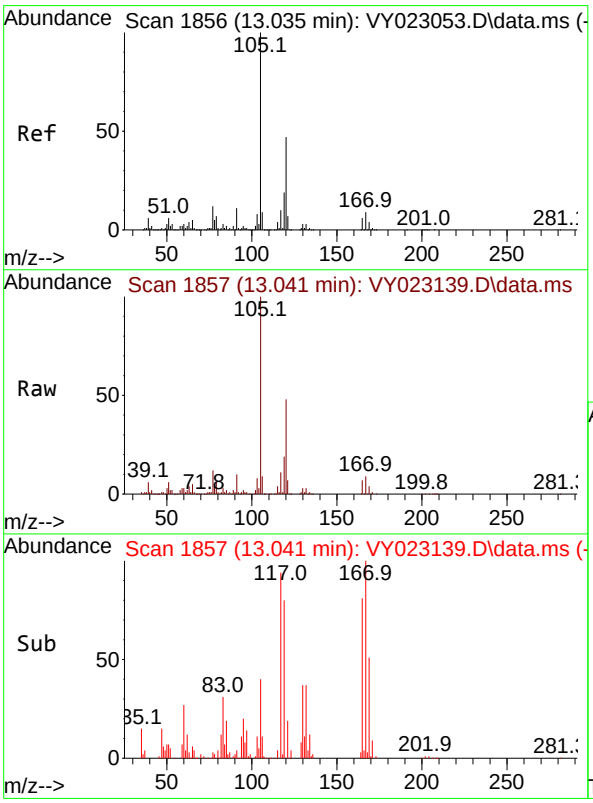
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 62.5 | 31.6 | 94.8 |
| 134 | 26.1 | 12.9 | 38.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

**Manual Integrations**
**APPROVED**

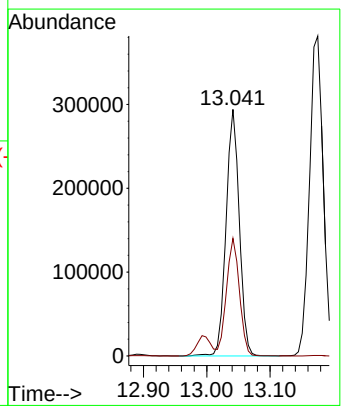
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

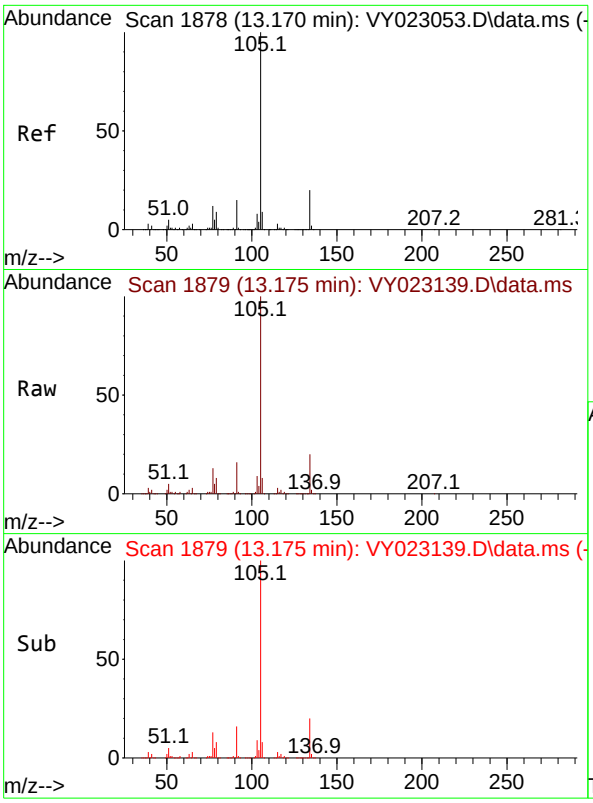



#84
1,2,4-Trimethylbenzene
Concen: 21.298 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:105 Resp: 426567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.5 | 23.0 | 69.0 |

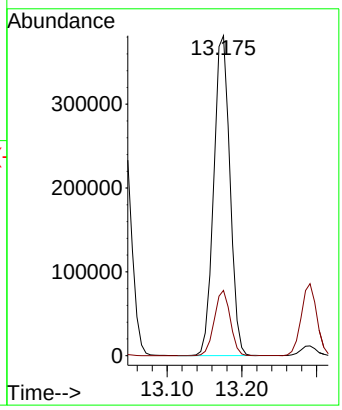





#85
sec-Butylbenzene
Concen: 21.463 ug/l
RT: 13.175 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:105 Resp: 57291

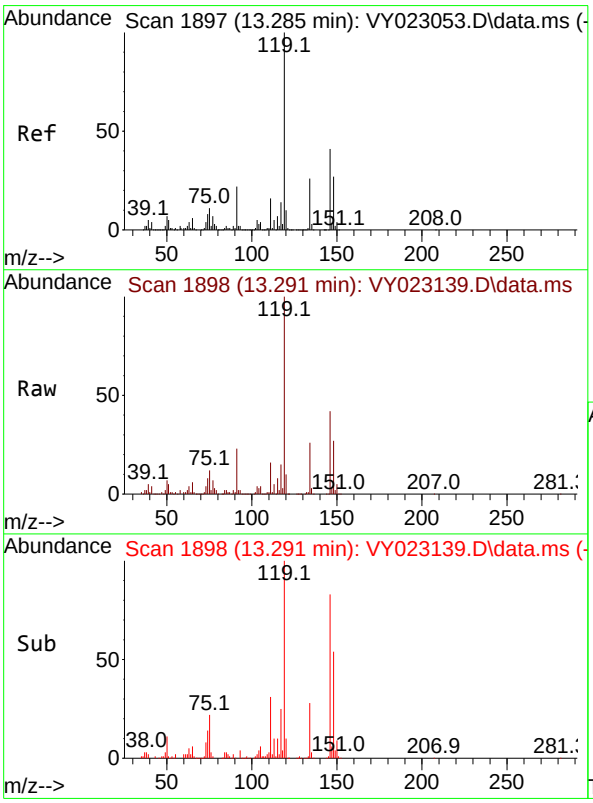
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.1 | 10.2 | 30.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

**Manual Integrations**
**APPROVED**

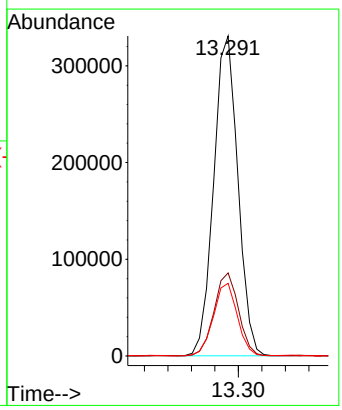
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

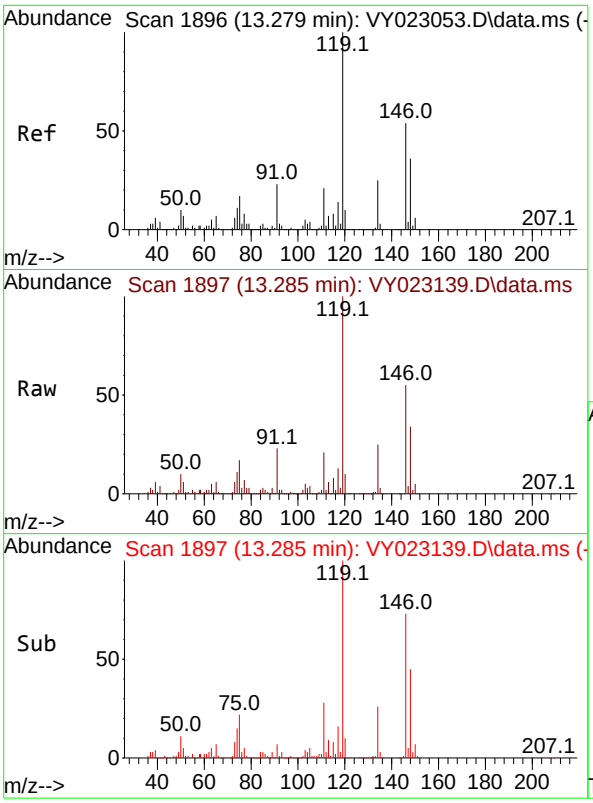



#86
p-Isopropyltoluene
Concen: 21.375 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:119 Resp: 473600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.2 | 13.2 | 39.6 |
| 91 | 22.3 | 11.3 | 33.8 |

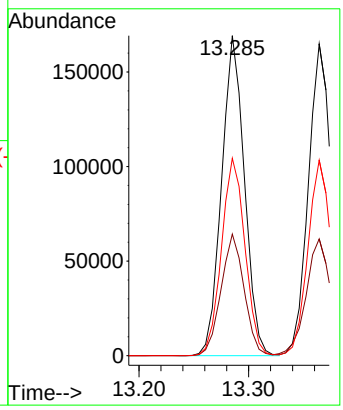





#87
1,3-Dichlorobenzene
Concen: 20.938 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

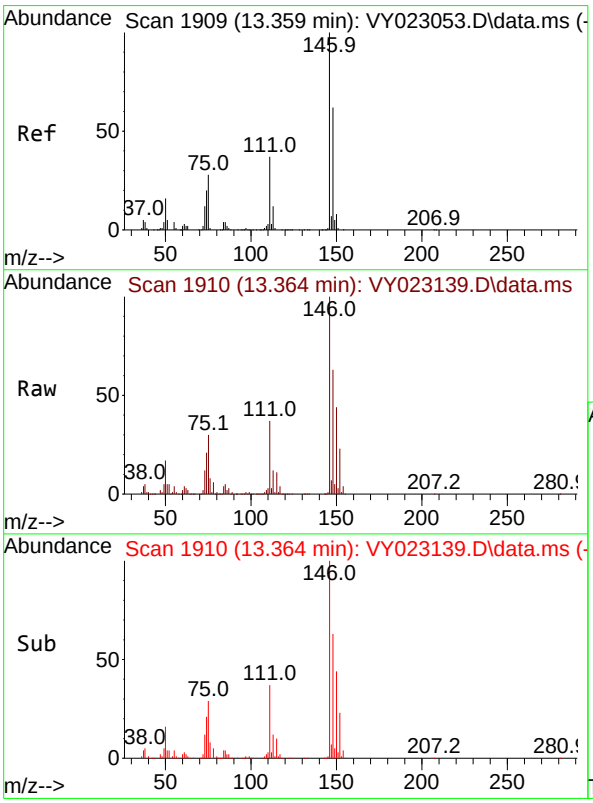
Tgt Ion:146 Resp: 24522

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.4 | 19.6 | 58.7 |
| 148 | 63.6 | 32.5 | 97.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

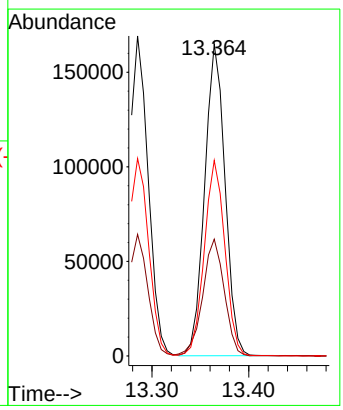
**Manual Integrations**
**APPROVED**
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

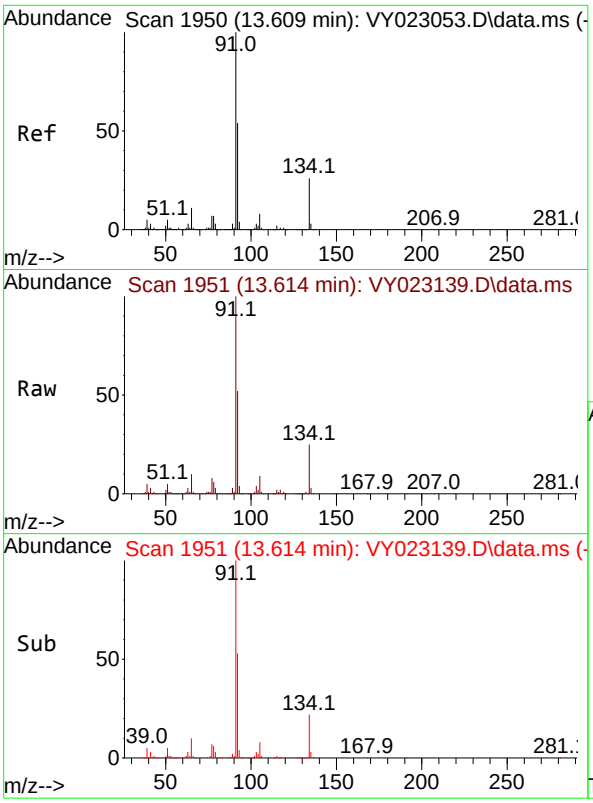



#88
1,4-Dichlorobenzene
Concen: 20.829 ug/l
RT: 13.364 min Scan# 1910
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:146 Resp: 241992

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.9 | 19.1 | 57.1 |
| 148 | 63.2 | 31.6 | 94.7 |

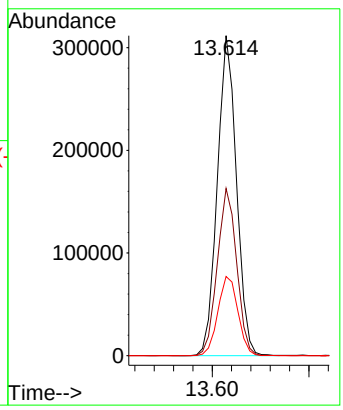





#89
n-Butylbenzene
Concen: 20.989 ug/l
RT: 13.614 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 91 Resp: 42712

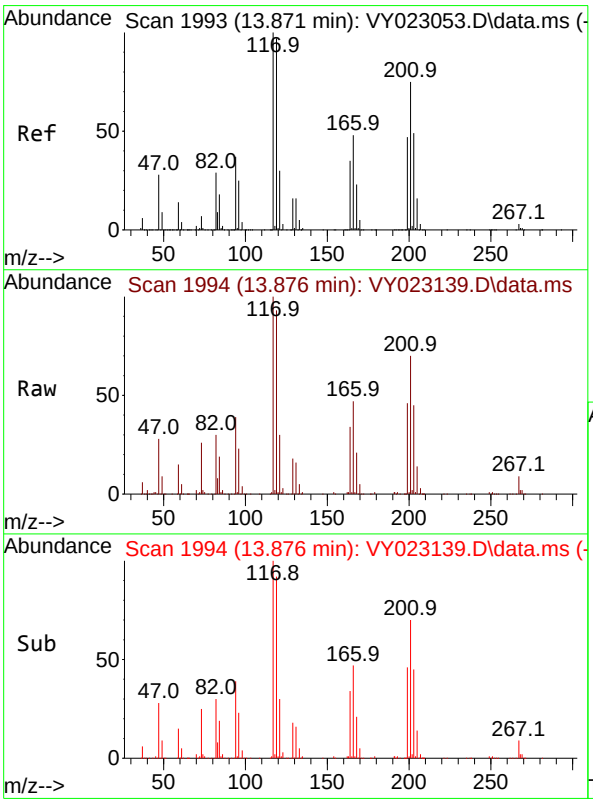
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.0 | 26.9 | 80.7 |
| 134 | 26.0 | 13.2 | 39.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

**Manual Integrations**
**APPROVED**

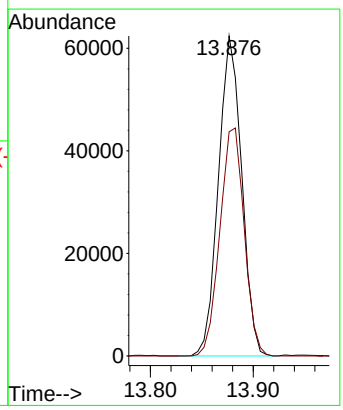
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

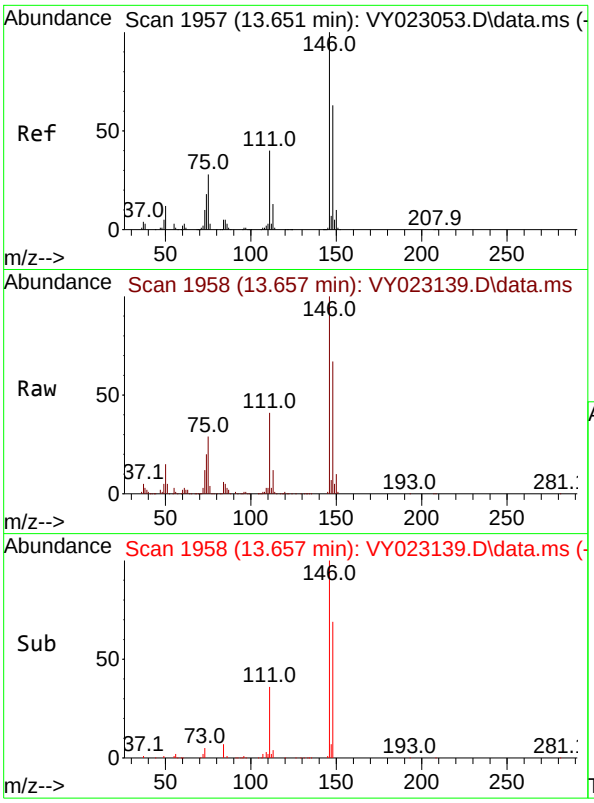



#90
Hexachloroethane
Concen: 21.595 ug/l
RT: 13.876 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:117 Resp: 97949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 74.7 | 38.4 | 115.1 |

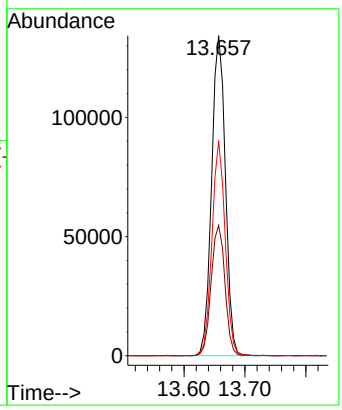





#91
1,2-Dichlorobenzene
Concen: 20.524 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

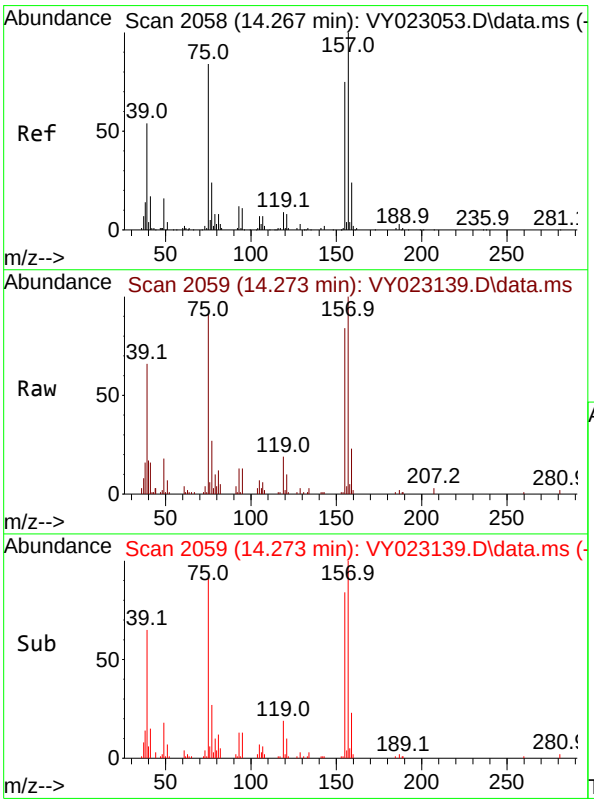
Tgt Ion:146 Resp: 21081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.7 | 20.3 | 60.8 |
| 148 | 64.5 | 32.2 | 96.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

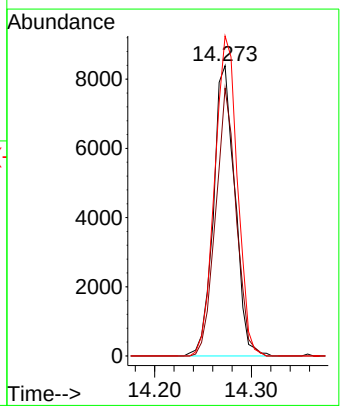
**Manual Integrations**
**APPROVED**
Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

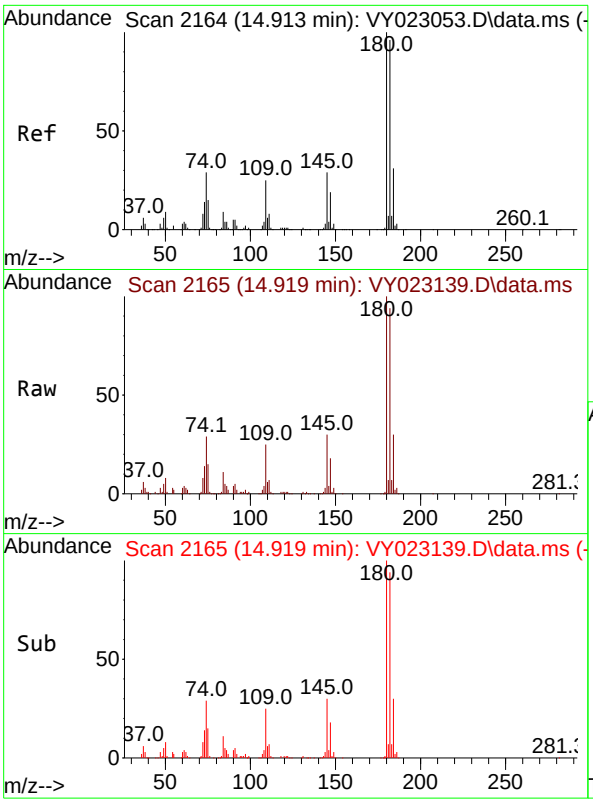



#92
1,2-Dibromo-3-Chloropropane
Concen: 19.499 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 75 Resp: 12905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 88.5 | 43.9 | 131.6 |
| 157 | 116.6 | 57.2 | 171.6 |

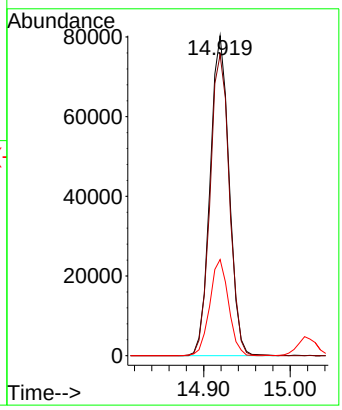





#93
1,2,4-Trichlorobenzene
Concen: 20.157 ug/l
RT: 14.919 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:180 Resp: 12243

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.5 | 46.8 | 140.4 |
| 145 | 29.7 | 14.4 | 43.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 08/20/2025
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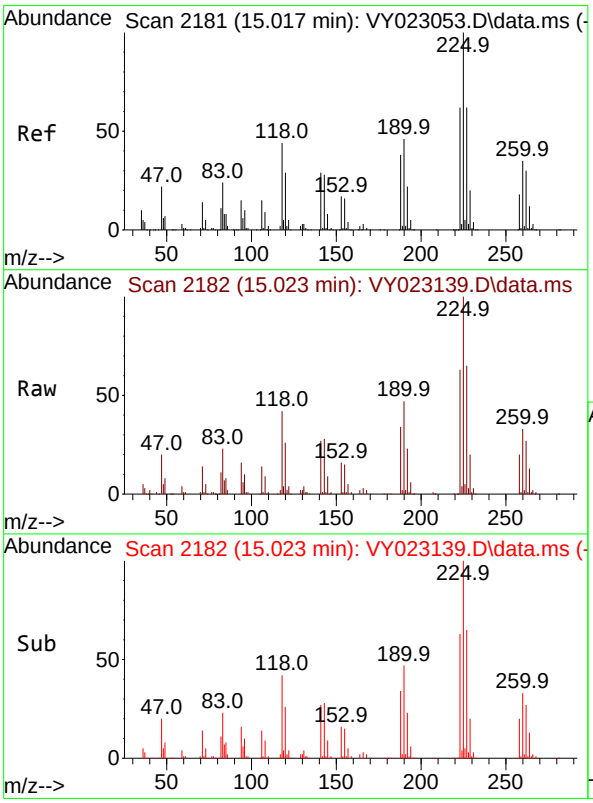
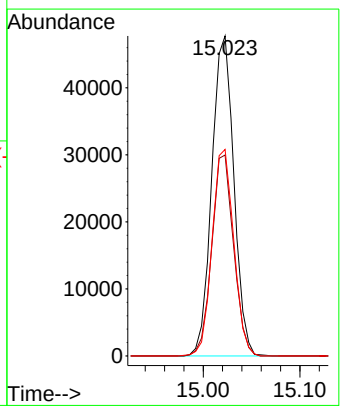
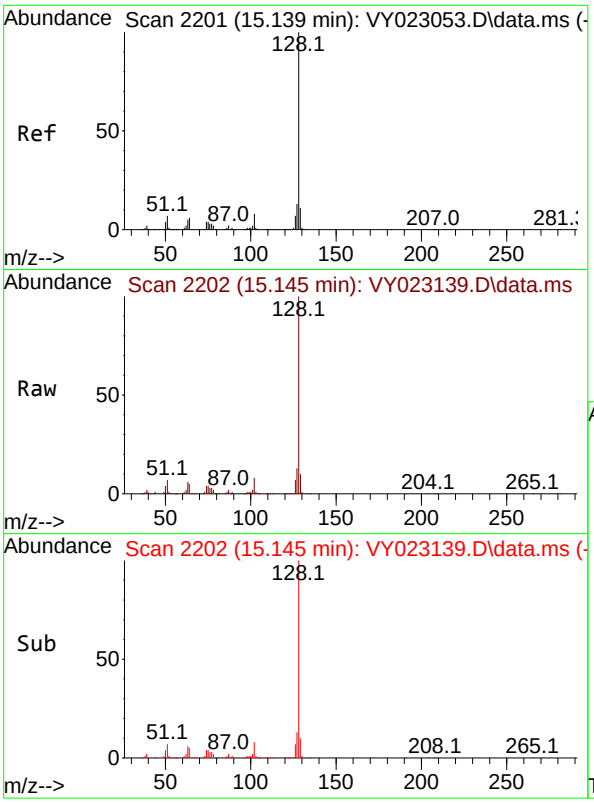



#94
Hexachlorobutadiene
Concen: 21.149 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:225 Resp: 75487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.2 | 31.3 | 93.8 |
| 227 | 63.6 | 31.5 | 94.5 |

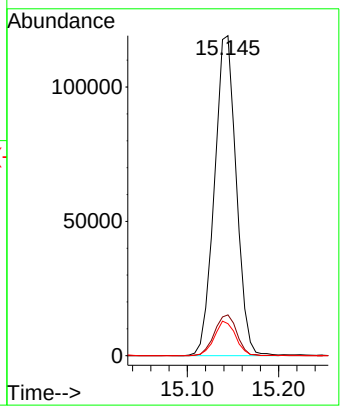





#95
Naphthalene
Concen: 19.124 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:128 Resp: 19808

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.1 | 10.4 | 15.6 |
| 129 | 10.6 | 9.0 | 13.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 08/20/2025
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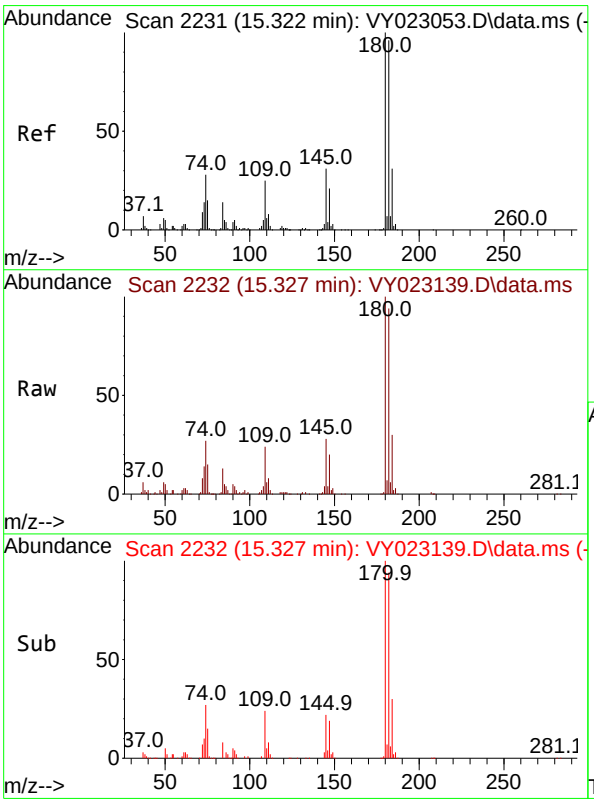
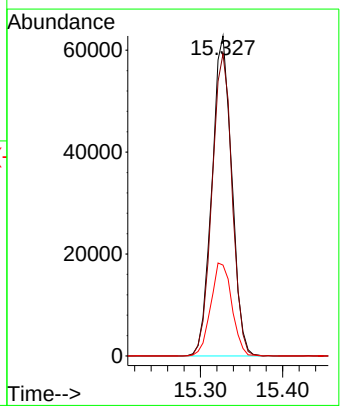



#96
1,2,3-Trichlorobenzene
Concen: 20.115 ug/l
RT: 15.327 min Scan# 2232
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:180 Resp: 105286

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.4 | 47.9 | 143.7 |
| 145 | 30.9 | 15.9 | 47.7 |



Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | |
| Project: | USACE018-44 DOD | Date Received: | |
| Client Sample ID: | VW0811SBSD01 | SDG No.: | Q2819 |
| Lab Sample ID: | VW0811SBSD01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VW032062.D | 1 | 08/11/25 13:10 | VW081125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 20.4 | | 1.10 | 4.00 | 5.00 | ug/Kg |
| 74-87-3 | Chloromethane | 21.5 | | 1.10 | 2.50 | 5.00 | ug/Kg |
| 75-01-4 | Vinyl Chloride | 20.6 | | 0.79 | 2.50 | 5.00 | ug/Kg |
| 74-83-9 | Bromomethane | 21.1 | | 1.10 | 4.00 | 5.00 | ug/Kg |
| 75-00-3 | Chloroethane | 20.9 | | 1.30 | 2.50 | 5.00 | ug/Kg |
| 75-69-4 | Trichlorofluoromethane | 20.7 | | 1.20 | 4.00 | 5.00 | ug/Kg |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 19.8 | | 1.10 | 2.50 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 20.2 | | 1.00 | 2.50 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 110 | | 4.70 | 20.0 | 25.0 | ug/Kg |
| 75-15-0 | Carbon Disulfide | 20.0 | | 1.10 | 4.00 | 5.00 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 21.8 | | 0.73 | 2.50 | 5.00 | ug/Kg |
| 79-20-9 | Methyl Acetate | 21.5 | | 1.50 | 4.00 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 21.6 | | 3.50 | 8.00 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 20.5 | | 0.86 | 2.50 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 20.5 | | 0.80 | 2.50 | 5.00 | ug/Kg |
| 110-82-7 | Cyclohexane | 20.1 | | 0.79 | 2.50 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 110 | | 6.50 | 20.0 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 19.8 | | 0.97 | 2.50 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 20.8 | | 0.75 | 2.50 | 5.00 | ug/Kg |
| 74-97-5 | Bromochloromethane | 20.0 | | 1.20 | 4.00 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 21.0 | | 0.84 | 4.00 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 20.4 | | 0.93 | 2.50 | 5.00 | ug/Kg |
| 108-87-2 | Methylcyclohexane | 20.1 | | 0.91 | 2.50 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 20.2 | | 0.79 | 2.50 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 20.8 | | 0.79 | 2.50 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 20.1 | | 0.81 | 2.50 | 5.00 | ug/Kg |
| 78-87-5 | 1,2-Dichloropropane | 20.1 | | 0.91 | 2.50 | 5.00 | ug/Kg |
| 75-27-4 | Bromodichloromethane | 20.0 | | 0.78 | 2.50 | 5.00 | ug/Kg |
| 108-10-1 | 4-Methyl-2-Pentanone | 100 | | 3.60 | 12.5 | 25.0 | ug/Kg |
| 108-88-3 | Toluene | 20.5 | | 0.78 | 2.50 | 5.00 | ug/Kg |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | |
| Project: | USACE018-44 DOD | Date Received: | |
| Client Sample ID: | VW0811SBSD01 | SDG No.: | Q2819 |
| Lab Sample ID: | VW0811SBSD01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VW032062.D | 1 | 08/11/25 13:10 | VW081125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 20.0 | | 0.65 | 2.50 | 5.00 | ug/Kg |
| 10061-01-5 | cis-1,3-Dichloropropene | 20.4 | | 0.62 | 2.50 | 5.00 | ug/Kg |
| 79-00-5 | 1,1,2-Trichloroethane | 20.7 | | 0.92 | 2.50 | 5.00 | ug/Kg |
| 591-78-6 | 2-Hexanone | 110 | | 3.70 | 12.5 | 25.0 | ug/Kg |
| 124-48-1 | Dibromochloromethane | 20.1 | | 0.87 | 2.50 | 5.00 | ug/Kg |
| 106-93-4 | 1,2-Dibromoethane | 20.7 | | 0.88 | 2.50 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 20.5 | | 1.10 | 2.50 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 20.2 | | 0.91 | 2.50 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 20.5 | | 0.67 | 2.50 | 5.00 | ug/Kg |
| 179601-23-1 | m/p-Xylenes | 40.7 | | 1.20 | 5.00 | 10.0 | ug/Kg |
| 95-47-6 | o-Xylene | 20.4 | | 0.82 | 2.50 | 5.00 | ug/Kg |
| 100-42-5 | Styrene | 20.8 | | 0.71 | 2.50 | 5.00 | ug/Kg |
| 75-25-2 | Bromoform | 20.2 | | 0.86 | 2.50 | 5.00 | ug/Kg |
| 98-82-8 | Isopropylbenzene | 19.5 | | 0.78 | 2.50 | 5.00 | ug/Kg |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 20.5 | | 1.20 | 2.50 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 20.7 | | 1.70 | 2.50 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 20.7 | | 1.60 | 2.50 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 20.8 | | 1.50 | 2.50 | 5.00 | ug/Kg |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 19.6 | | 1.80 | 4.00 | 5.00 | ug/Kg |
| 120-82-1 | 1,2,4-Trichlorobenzene | 20.4 | | 3.00 | 4.00 | 5.00 | ug/Kg |
| 87-61-6 | 1,2,3-Trichlorobenzene | 20.6 | | 3.20 | 4.00 | 5.00 | ug/Kg |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 49.8 | | 71 - 136 | | 100% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 47.0 | | 78 - 119 | | 94% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 48.3 | | 85 - 116 | | 97% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 49.8 | | 79 - 119 | | 100% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 227000 | 7.959 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 442000 | 8.849 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 400000 | 11.635 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 196000 | 13.556 | | | | |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | First Environment, Inc. | Date Collected: | |
| Project: | USACE018-44 DOD | Date Received: | |
| Client Sample ID: | VW0811SBSD01 | SDG No.: | Q2819 |
| Lab Sample ID: | VW0811SBSD01 | Matrix: | SOIL |
| Analytical Method: | 8260D | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VW032062.D | 1 | 08/11/25 13:10 | VW081125 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032062.D
Acq On : 11 Aug 2025 13:10
Operator : SY/MD
Sample : VW0811SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 12 04:24:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.959 | 168 | 226773 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.849 | 114 | 441696 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.635 | 117 | 400240 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.556 | 152 | 195548 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.319 | 65 | 163196 | 49.758 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 63 - 155 | | Recovery = 99.520% | | | |
| 35) Dibromofluoromethane | 7.904 | 113 | 134207 | 47.032 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 70 - 134 | | Recovery = 94.060% | | | |
| 50) Toluene-d8 | 10.331 | 98 | 509734 | 48.296 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 123 | | Recovery = 96.600% | | | |
| 62) 4-Bromofluorobenzene | 12.617 | 95 | 193625 | 49.782 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 17 - 146 | | Recovery = 99.560% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.046 | 85 | 33141 | 20.433 | ug/l | 95 |
| 3) Chloromethane | 2.253 | 50 | 46903 | 21.468 | ug/l | 96 |
| 4) Vinyl Chloride | 2.405 | 62 | 54316 | 20.553 | ug/l | 95 |
| 5) Bromomethane | 2.820 | 94 | 41922 | 21.144 | ug/l | 99 |
| 6) Chloroethane | 2.972 | 64 | 36568 | 20.911 | ug/l | 100 |
| 7) Trichlorofluoromethane | 3.308 | 101 | 43905 | 20.739 | ug/l | 93 |
| 8) Diethyl Ether | 3.722 | 74 | 36629 | 21.118 | ug/l | 98 |
| 9) 1,1,2-Trichlorotrifluo... | 4.100 | 101 | 49478 | 19.810 | ug/l | 99 |
| 10) Methyl Iodide | 4.307 | 142 | 73761 | 20.829 | ug/l | 98 |
| 11) Tert butyl alcohol | 5.222 | 59 | 22637 | 106.589 | ug/l | 98 |
| 12) 1,1-Dichloroethene | 4.076 | 96 | 55617 | 20.223 | ug/l | 92 |
| 13) Acrolein | 3.929 | 56 | 36383 | 107.518 | ug/l | 99 |
| 14) Allyl chloride | 4.698 | 41 | 83613 | 20.889 | ug/l | 99 |
| 15) Acrylonitrile | 5.405 | 53 | 88342 | 106.933 | ug/l | 99 |
| 16) Acetone | 4.155 | 43 | 82994 | 109.296 | ug/l | 99 |
| 17) Carbon Disulfide | 4.423 | 76 | 147711 | 20.010 | ug/l | 98 |
| 18) Methyl Acetate | 4.710 | 43 | 51758 | 21.540 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.460 | 73 | 105734 | 21.820 | ug/l | 96 |
| 20) Methylene Chloride | 4.947 | 84 | 75897 | 21.617 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 5.460 | 96 | 59755 | 20.474 | ug/l | 93 |
| 22) Diisopropyl ether | 6.337 | 45 | 181364 | 21.493 | ug/l | 92 |
| 23) Vinyl Acetate | 6.283 | 43 | 596458 | 107.662 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 6.246 | 63 | 110715 | 20.536 | ug/l | 98 |
| 25) 2-Butanone | 7.191 | 43 | 119355 | 110.592 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 7.191 | 77 | 57308 | 21.188 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 7.191 | 96 | 71058 | 20.829 | ug/l | 99 |
| 28) Bromochloromethane | 7.532 | 49 | 49164 | 20.039 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.557 | 42 | 77560 | 108.972 | ug/l | 100 |
| 30) Chloroform | 7.691 | 83 | 119914 | 20.980 | ug/l | 97 |
| 31) Cyclohexane | 7.971 | 56 | 94081 | 20.129 | ug/l | 95 |
| 32) 1,1,1-Trichloroethane | 7.886 | 97 | 84762 | 20.417 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 8.099 | 75 | 79280 | 19.708 | ug/l | 99 |
| 37) Ethyl Acetate | 7.276 | 43 | 48057 | 20.284 | ug/l | 98 |
| 38) Carbon Tetrachloride | 8.087 | 117 | 76962 | 19.825 | ug/l | 88 |
| 39) Methylcyclohexane | 9.343 | 83 | 98634 | 20.117 | ug/l | 95 |
| 40) Benzene | 8.337 | 78 | 252942 | 20.229 | ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032062.D
Acq On : 11 Aug 2025 13:10
Operator : SY/MD
Sample : VW0811SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 12 04:24:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.502 | 41 | 27124 | 20.188 | ug/l | | 93 |
| 42) 1,2-Dichloroethane | 8.416 | 62 | 83160 | 20.784 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.435 | 43 | 88890 | 20.393 | ug/l | | 100 |
| 44) Trichloroethene | 9.105 | 130 | 59840 | 20.095 | ug/l | | 97 |
| 45) 1,2-Dichloropropane | 9.373 | 63 | 60825 | 20.135 | ug/l | | 95 |
| 46) Dibromomethane | 9.465 | 93 | 39289 | 20.151 | ug/l | | 98 |
| 47) Bromodichloromethane | 9.654 | 83 | 89761 | 19.980 | ug/l | | 96 |
| 48) Methyl methacrylate | 9.441 | 41 | 43222 | 20.539 | ug/l | | 99 |
| 49) 1,4-Dioxane | 9.465 | 88 | 10586 | 419.936 | ug/l | | 87 |
| 51) 4-Methyl-2-Pentanone | 10.215 | 43 | 257970 | 104.852 | ug/l | | 100 |
| 52) Toluene | 10.392 | 92 | 161185 | 20.465 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.611 | 75 | 84143 | 19.991 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 10.081 | 75 | 97621 | 20.444 | ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 10.788 | 97 | 53687 | 20.722 | ug/l | | 97 |
| 56) Ethyl methacrylate | 10.648 | 69 | 72299 | 20.854 | ug/l | | 97 |
| 57) 1,3-Dichloropropane | 10.934 | 76 | 90595 | 20.061 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.928 | 63 | 192035 | 100.139 | ug/l | | 99 |
| 59) 2-Hexanone | 10.971 | 43 | 180946 | 106.193 | ug/l | | 100 |
| 60) Dibromochloromethane | 11.129 | 129 | 59430 | 20.081 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 11.233 | 107 | 52100 | 20.693 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.867 | 164 | 47470 | 20.534 | ug/l | | 91 |
| 65) Chlorobenzene | 11.660 | 112 | 176392 | 20.247 | ug/l | | 93 |
| 66) 1,1,1,2-Tetrachloroethane | 11.733 | 131 | 54330 | 19.988 | ug/l | | 96 |
| 67) Ethyl Benzene | 11.727 | 91 | 302504 | 20.500 | ug/l | | 97 |
| 68) m/p-Xylenes | 11.836 | 106 | 231893 | 40.725 | ug/l | | 96 |
| 69) o-Xylene | 12.166 | 106 | 107543 | 20.434 | ug/l | | 99 |
| 70) Styrene | 12.178 | 104 | 194078 | 20.761 | ug/l | | 100 |
| 71) Bromoform | 12.349 | 173 | 31350 | 20.163 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.464 | 105 | 266409 | 19.494 | ug/l | | 99 |
| 74) N-amyl acetate | 12.269 | 43 | 79492 | 20.275 | ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.714 | 83 | 66644 | 20.539 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.763 | 75 | 57672m | 21.730 | ug/l | | |
| 77) Bromobenzene | 12.745 | 156 | 67682 | 20.736 | ug/l | | 97 |
| 78) n-propylbenzene | 12.800 | 91 | 340328 | 20.228 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.891 | 91 | 209148 | 20.142 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.940 | 105 | 234936 | 20.250 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.513 | 75 | 19731 | 19.247 | ug/l | | 92 |
| 82) 4-Chlorotoluene | 12.989 | 91 | 220054 | 19.946 | ug/l | | 98 |
| 83) tert-Butylbenzene | 13.202 | 119 | 194628 | 20.213 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.245 | 105 | 247687 | 20.972 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.379 | 105 | 295479 | 20.297 | ug/l | | 98 |
| 86) p-Isopropyltoluene | 13.495 | 119 | 247079 | 20.359 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.495 | 146 | 134680 | 20.737 | ug/l | | 97 |
| 88) 1,4-Dichlorobenzene | 13.574 | 146 | 136123 | 20.740 | ug/l | | 98 |
| 89) n-Butylbenzene | 13.818 | 91 | 235344 | 19.961 | ug/l | | 99 |
| 90) Hexachloroethane | 14.086 | 117 | 41787 | 18.827 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 13.867 | 146 | 122421 | 20.808 | ug/l | | 95 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.482 | 75 | 11304 | 19.597 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 15.122 | 180 | 71854 | 20.416 | ug/l | | 95 |
| 94) Hexachlorobutadiene | 15.226 | 225 | 30590 | 19.444 | ug/l | | 99 |
| 95) Naphthalene | 15.360 | 128 | 174401 | 20.223 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.549 | 180 | 65985 | 20.606 | ug/l | | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032062.D
Acq On : 11 Aug 2025 13:10
Operator : SY/MD
Sample : VW0811SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

Quant Time: Aug 12 04:24:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

(#) = qualifier out of range (m) = manual integration (+) = signals summed

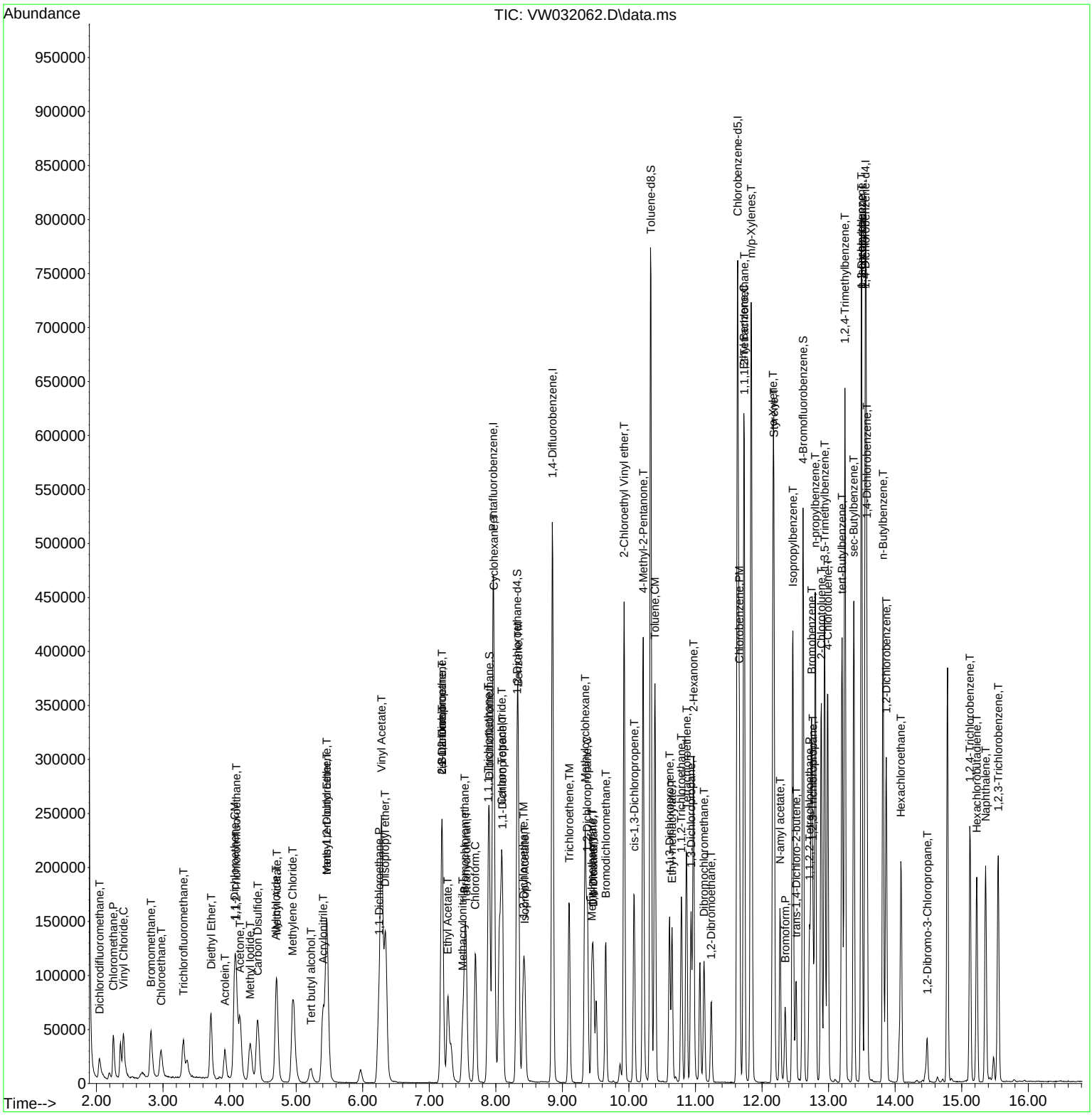
Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032062.D
Acq On : 11 Aug 2025 13:10
Operator : SY/MD
Sample : VW0811SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 13 Sample Multiplier: 1

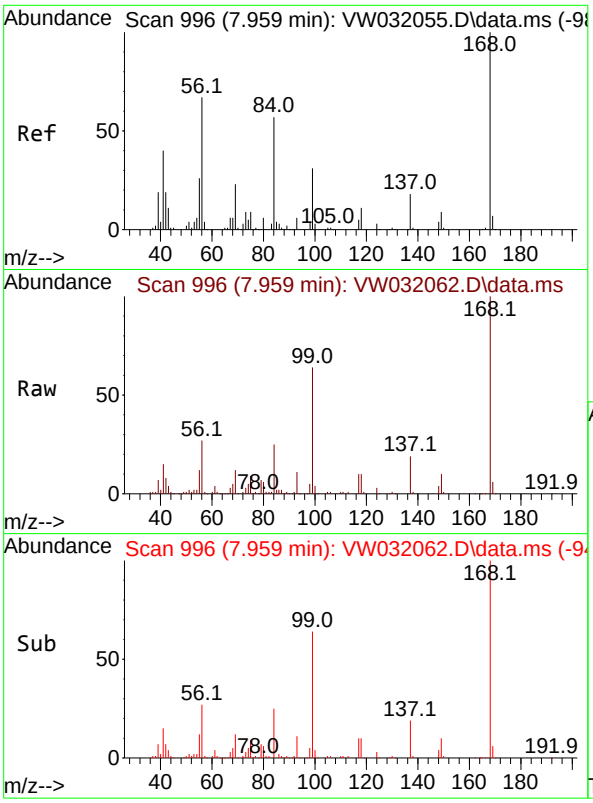
Quant Time: Aug 12 04:24:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

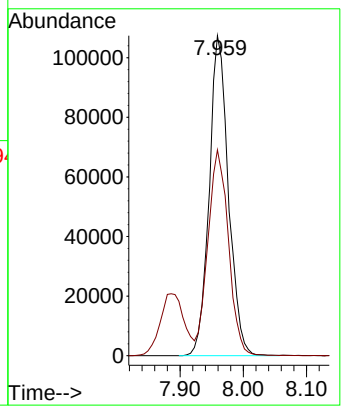





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:168 Resp: 22677

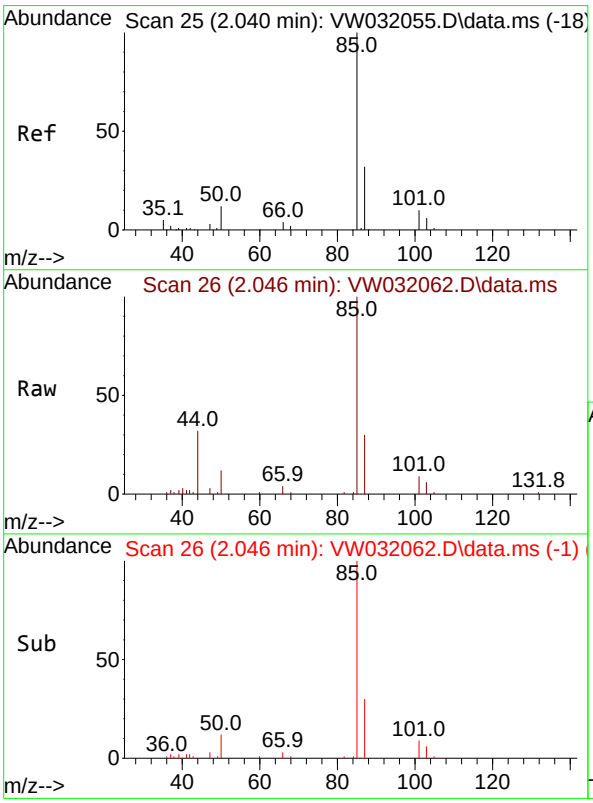
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 64.2 | 56.0 | 84.0 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

**Manual Integrations**
**APPROVED**

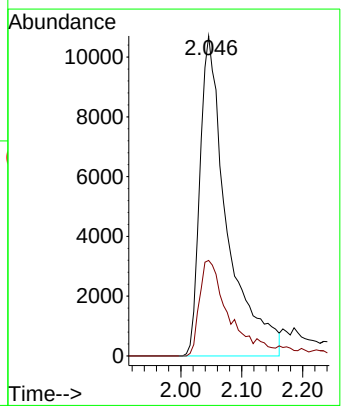
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

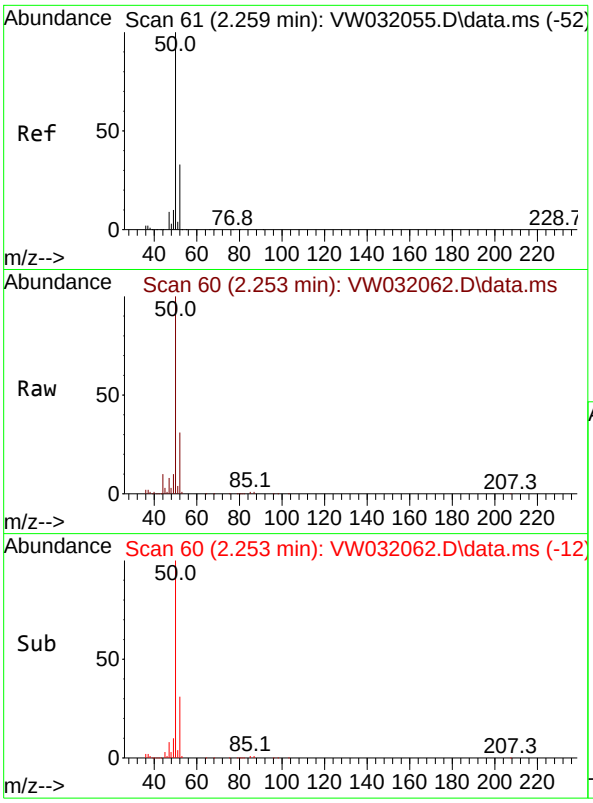



#2
Dichlorodifluoromethane
Concen: 20.433 ug/l
RT: 2.046 min Scan# 26
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 85 Resp: 33141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 29.9 | 16.2 | 48.6 |






#3
Chloromethane
Concen: 21.468 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

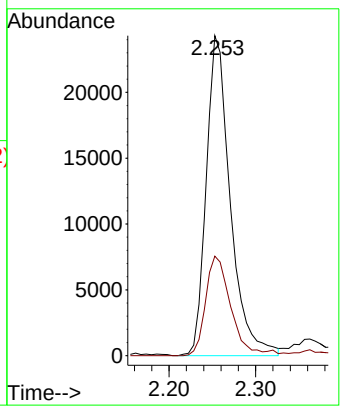
Tgt Ion: 50 Resp: 4690

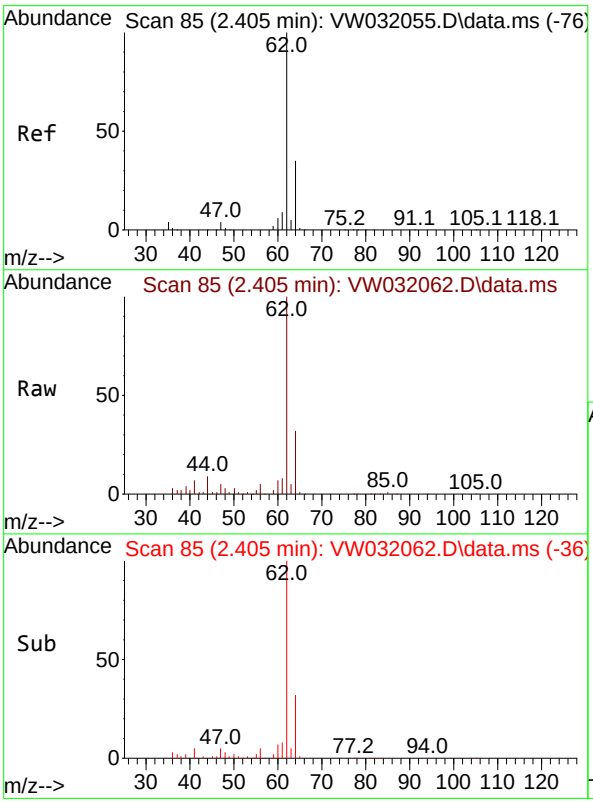
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.1 | 26.6 | 39.8 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

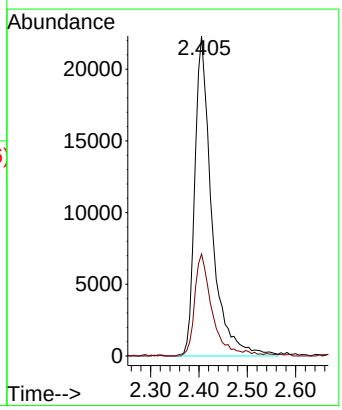


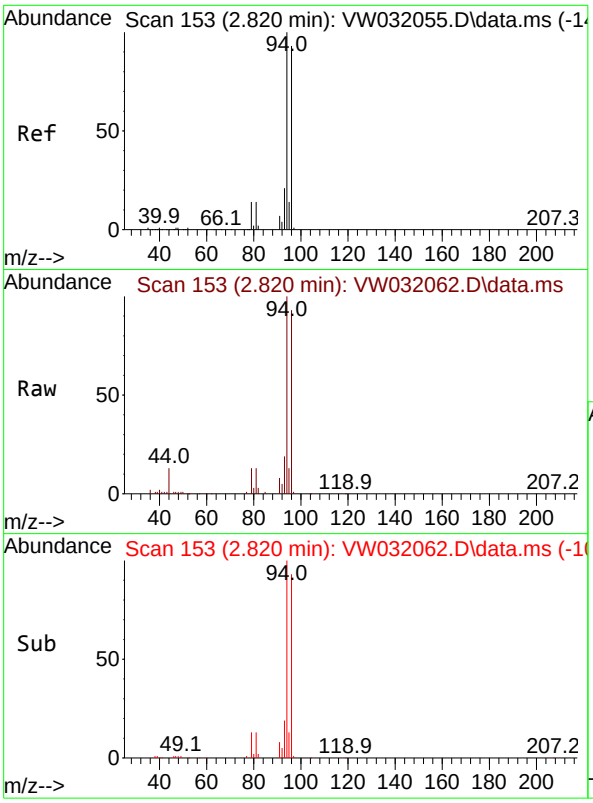




#4
Vinyl Chloride
Concen: 20.553 ug/l
RT: 2.405 min Scan# 85
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 62 Resp: 54316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.5 | 27.8 | 41.6 |

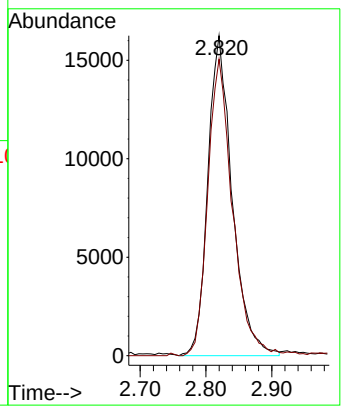





#5
Bromomethane
Concen: 21.144 ug/l
RT: 2.820 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 94 Resp: 4192

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 92.6 | 74.7 | 112.1 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

**Manual Integrations**
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Reviewed By :Mahesh Dadoda 08/12/2025
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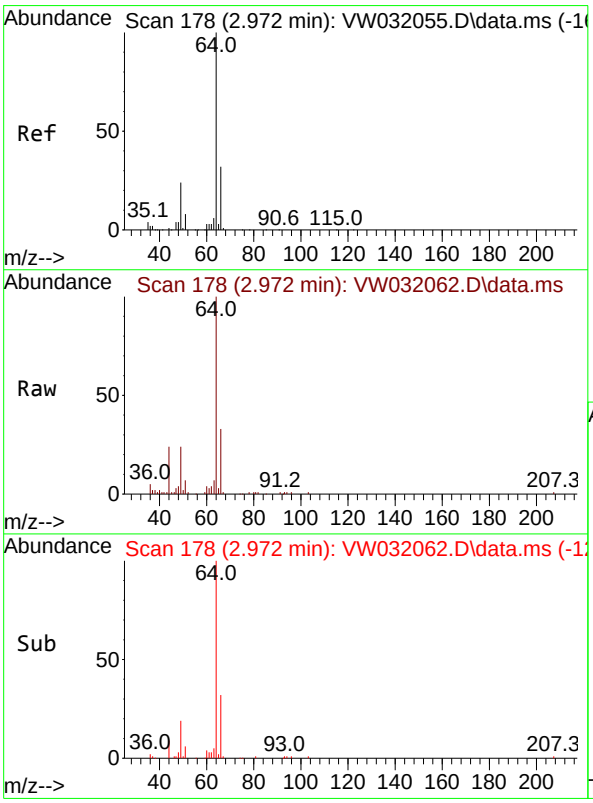
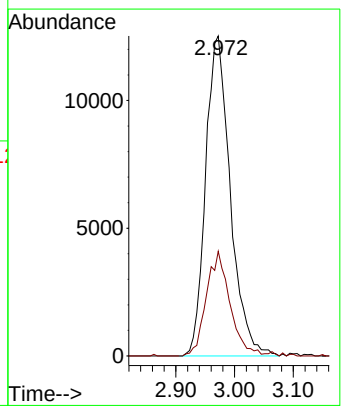
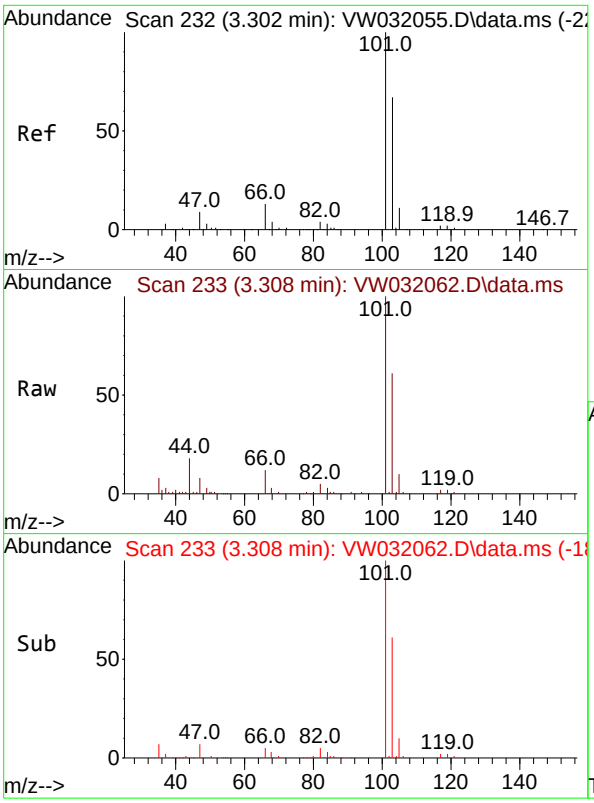



#6
Chloroethane
Concen: 20.911 ug/l
RT: 2.972 min Scan# 178
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 64 Resp: 36568

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.7 | 26.0 | 39.0 |

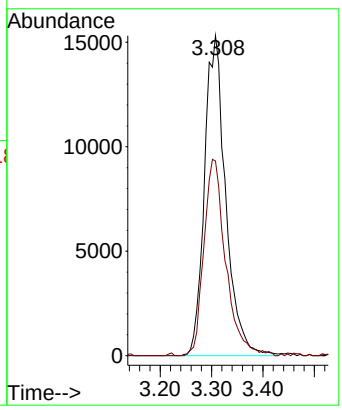





#7
Trichlorofluoromethane
Concen: 20.739 ug/l
RT: 3.308 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:101 Resp: 4390

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 60.8 | 53.4 | 80.0 |




**Instrument :**
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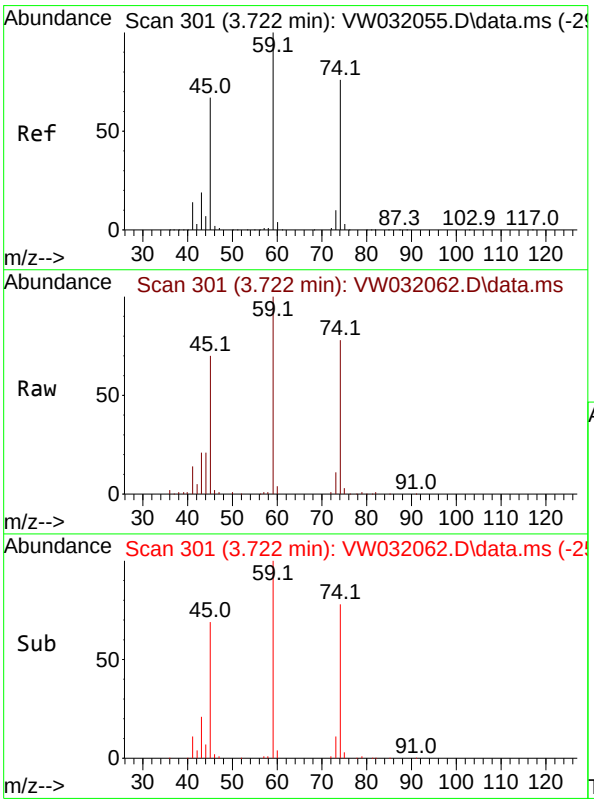
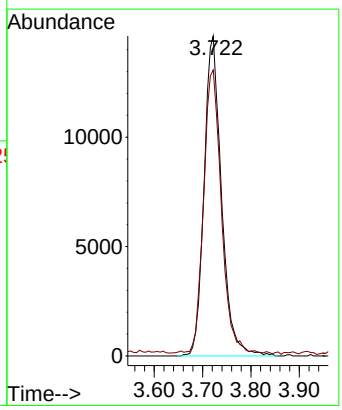
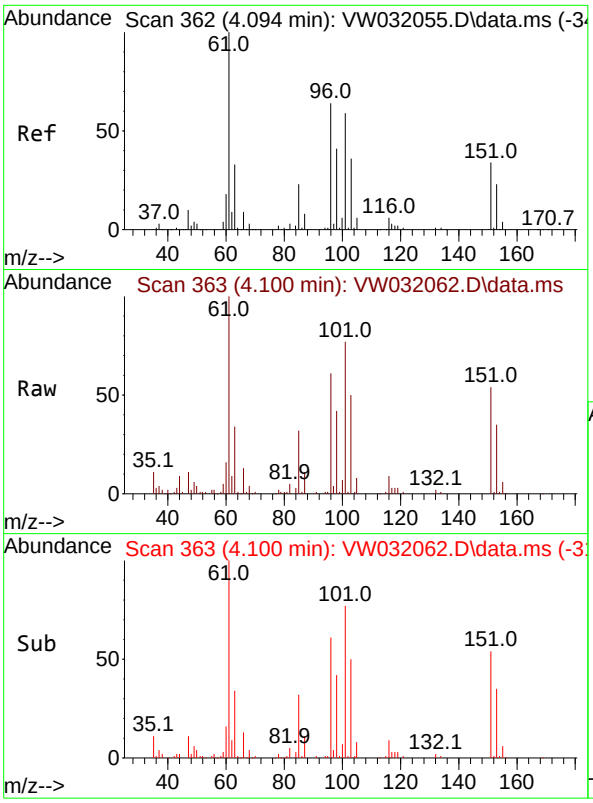



#8
Diethyl Ether
Concen: 21.118 ug/l
RT: 3.722 min Scan# 301
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 74 Resp: 36629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 89.2 | 45.4 | 136.2 |

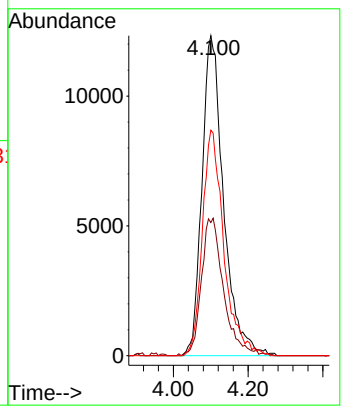





#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.810 ug/l
RT: 4.100 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:101 Resp: 4947

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 44.1 | 34.9 | 52.3 |
| 151 | 70.0 | 56.2 | 84.4 |




**Instrument :**
MSVOA_W
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VW0811SBSD01

**Manual Integrations**
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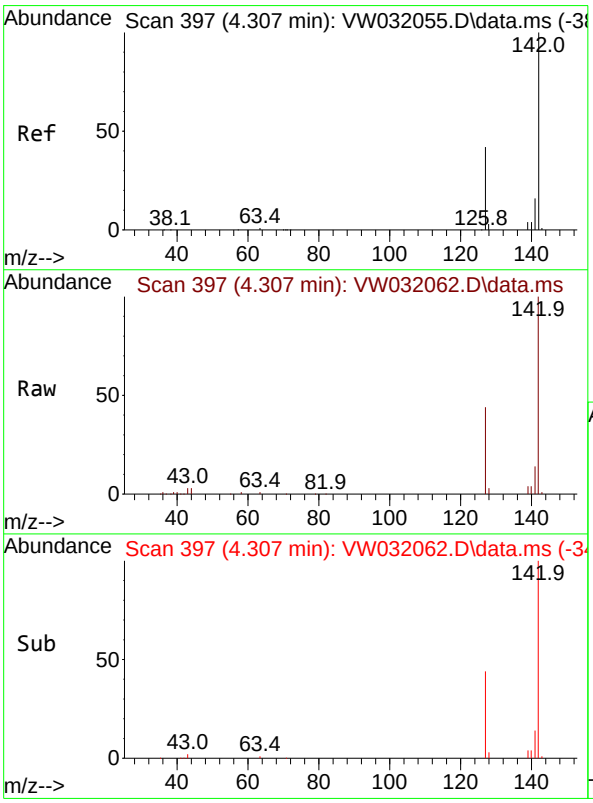
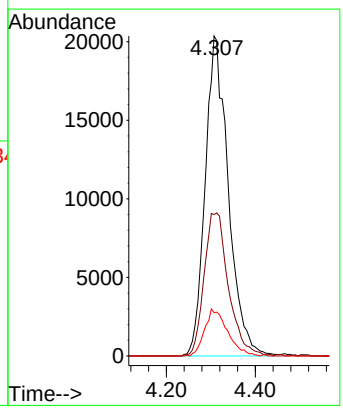
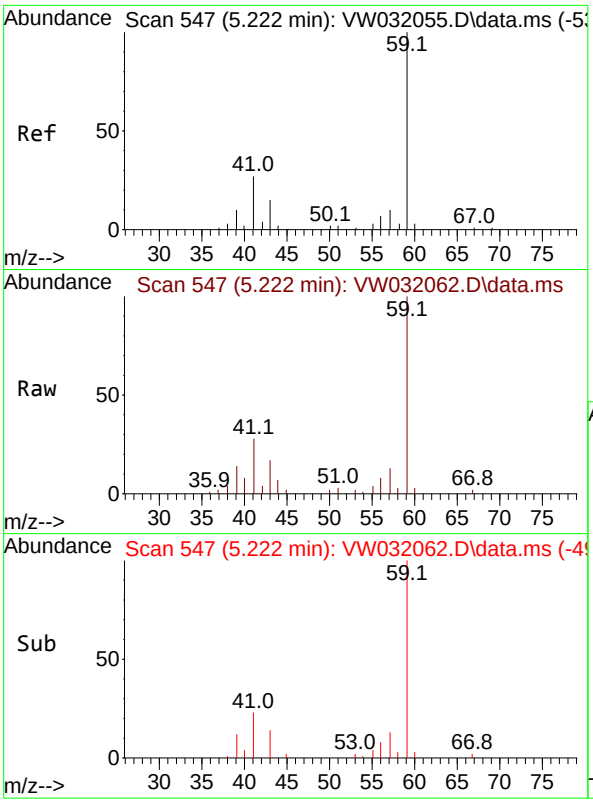



#10
Methyl Iodide
Concen: 20.829 ug/l
RT: 4.307 min Scan# 397
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:142 Resp: 73761

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 47.0 | 36.6 | 55.0 |
| 141 | 14.5 | 12.1 | 18.1 |

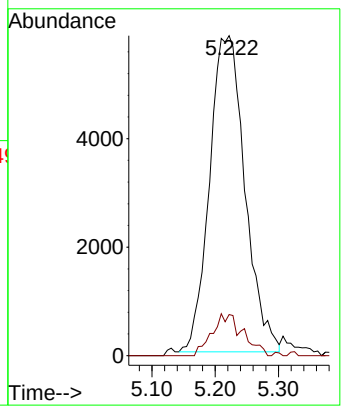





#11
Tert butyl alcohol
Concen: 106.589 ug/l
RT: 5.222 min Scan# 54
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 59 Resp: 2263

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 11.5 | 8.7 | 13.1 |




**Instrument :**
MSVOA_W
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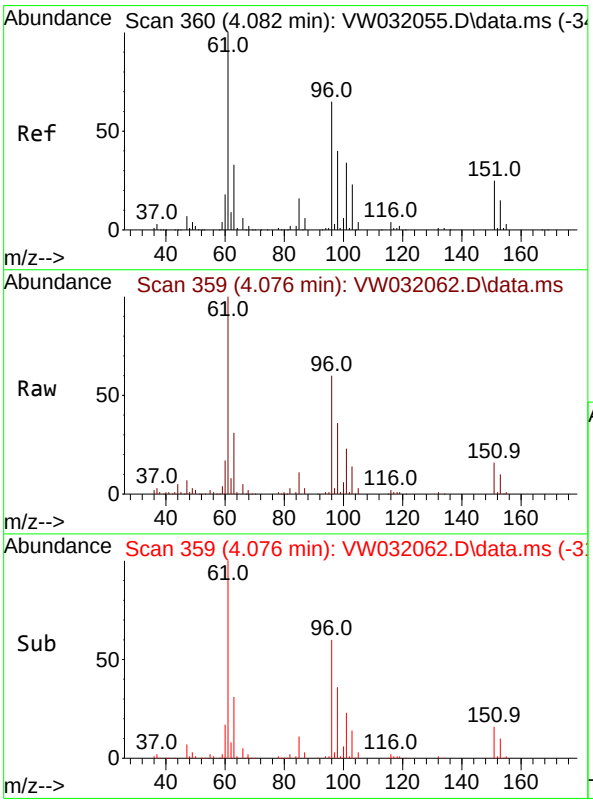
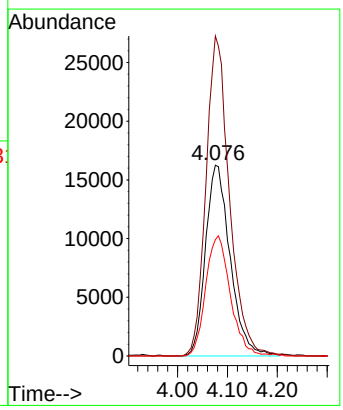
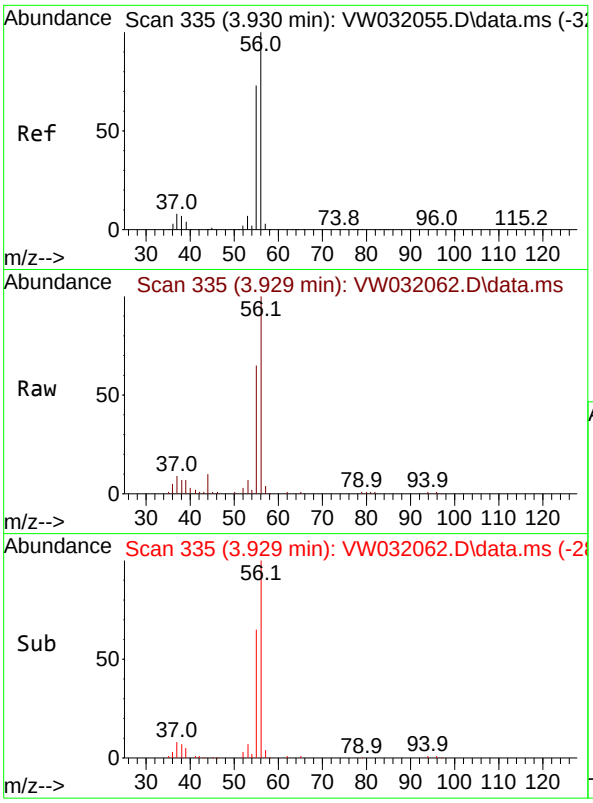



#12
1,1-Dichloroethene
Concen: 20.223 ug/l
RT: 4.076 min Scan# 359
Delta R.T. -0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 96 Resp: 55617

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 167.8 | 123.4 | 185.2 |
| 98 | 61.0 | 49.5 | 74.3 |

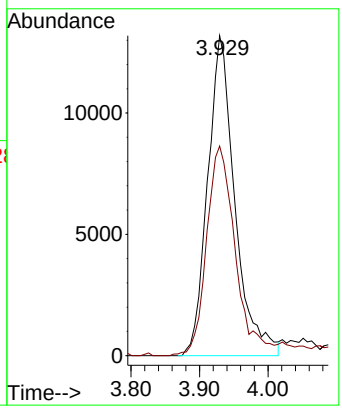





#13
Acrolein
Concen: 107.518 ug/l
RT: 3.929 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 56 Resp: 3638

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 68.8 | 55.4 | 83.2 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

**Manual Integrations**
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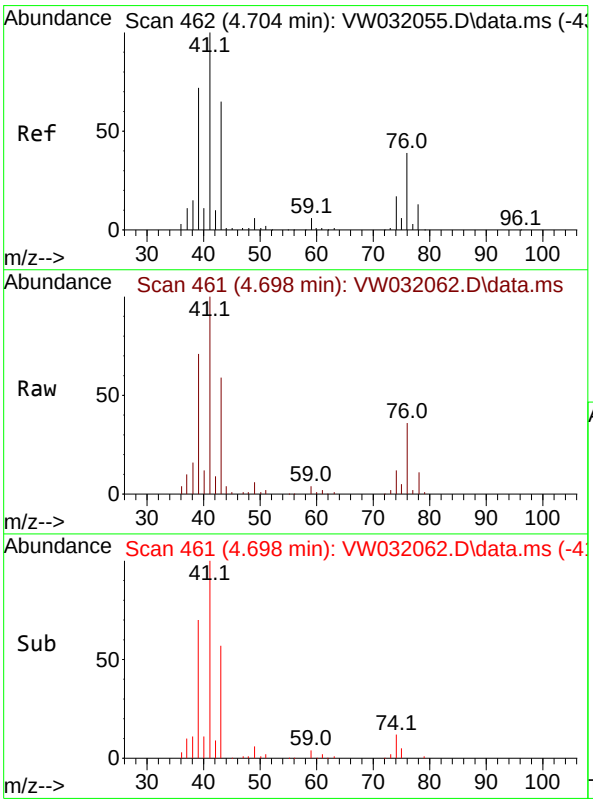
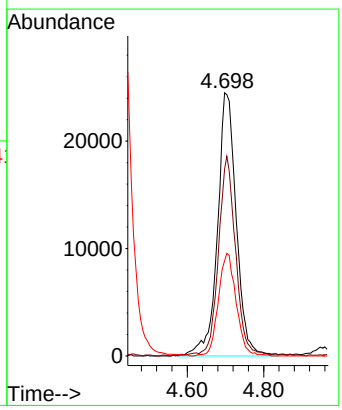
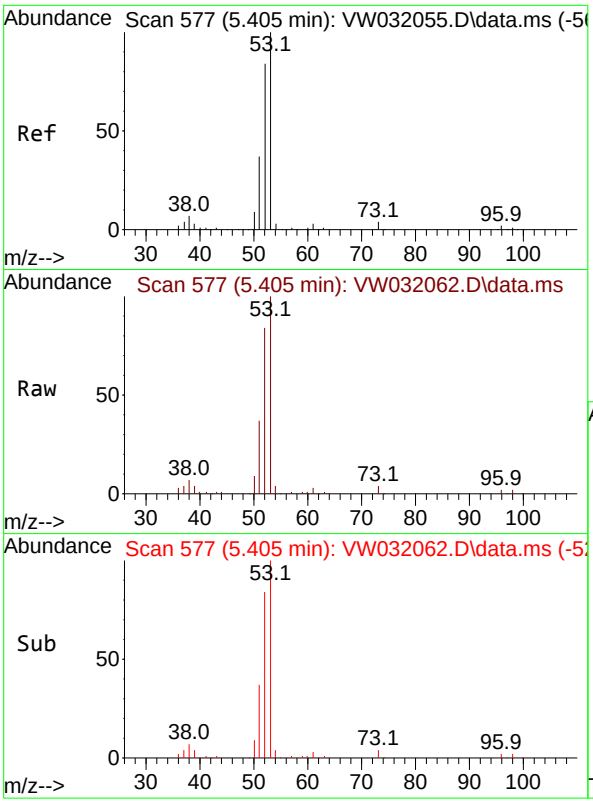



#14
Allyl chloride
Concen: 20.889 ug/l
RT: 4.698 min Scan# 461
Delta R.T. -0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 41 Resp: 83613

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 69.6 | 54.5 | 81.7 |
| 76 | 36.8 | 29.3 | 43.9 |

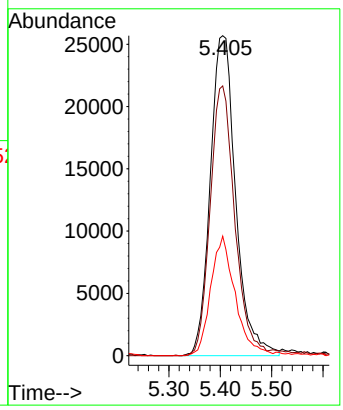





#15
Acrylonitrile
Concen: 106.933 ug/l
RT: 5.405 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 53 Resp: 8834

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.5 | 66.1 | 99.1 |
| 51 | 35.9 | 29.2 | 43.8 |




**Instrument :**
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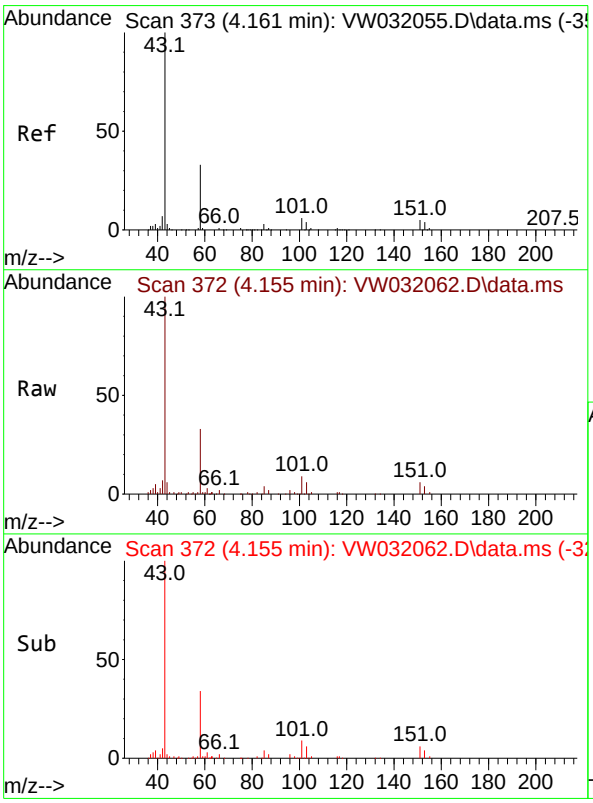
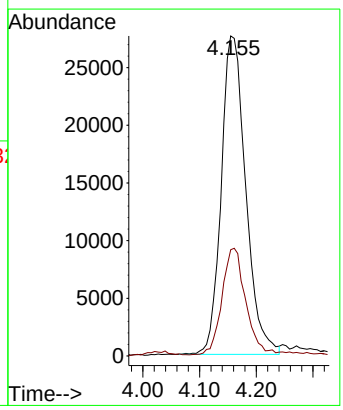
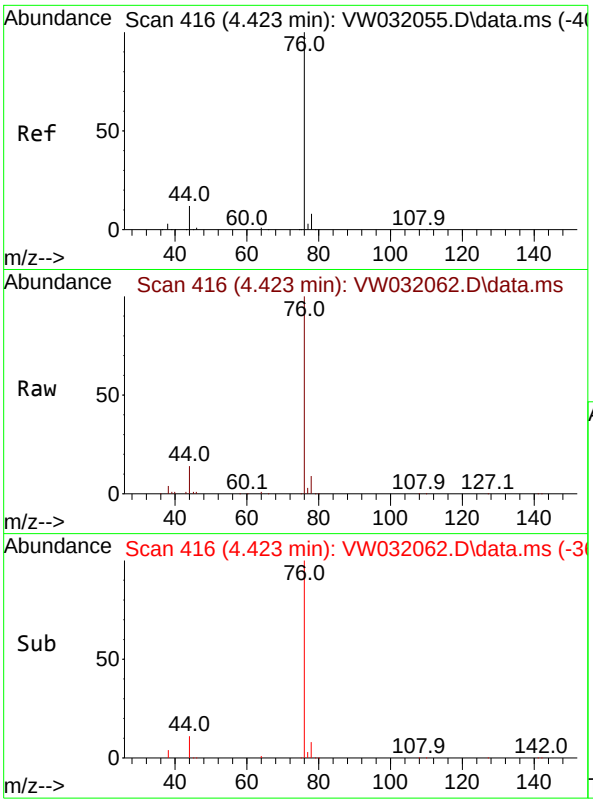



#16
Acetone
Concen: 109.296 ug/l
RT: 4.155 min Scan# 372
Delta R.T. -0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 43 Resp: 82994

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.7 | 26.6 | 39.8 |

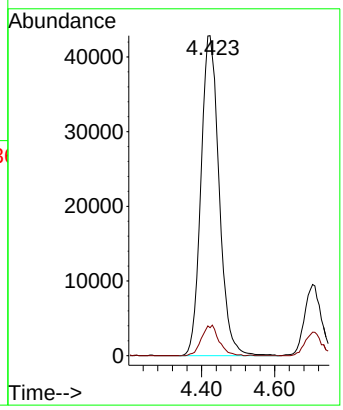





#17
Carbon Disulfide
Concen: 20.010 ug/l
RT: 4.423 min Scan# 4
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 76 Resp: 14771

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.8 | 6.4 | 9.6 |

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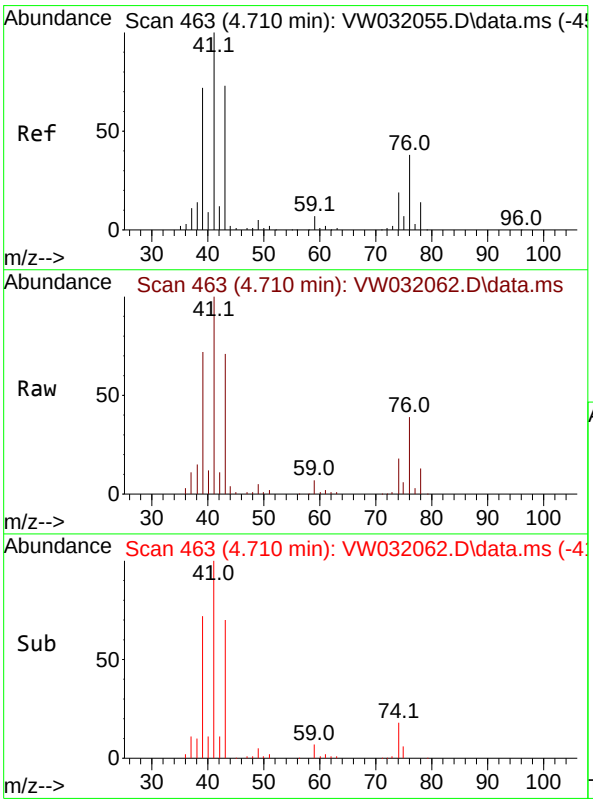
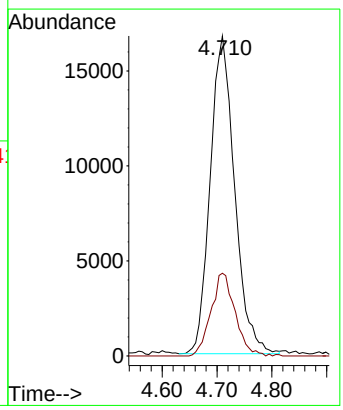
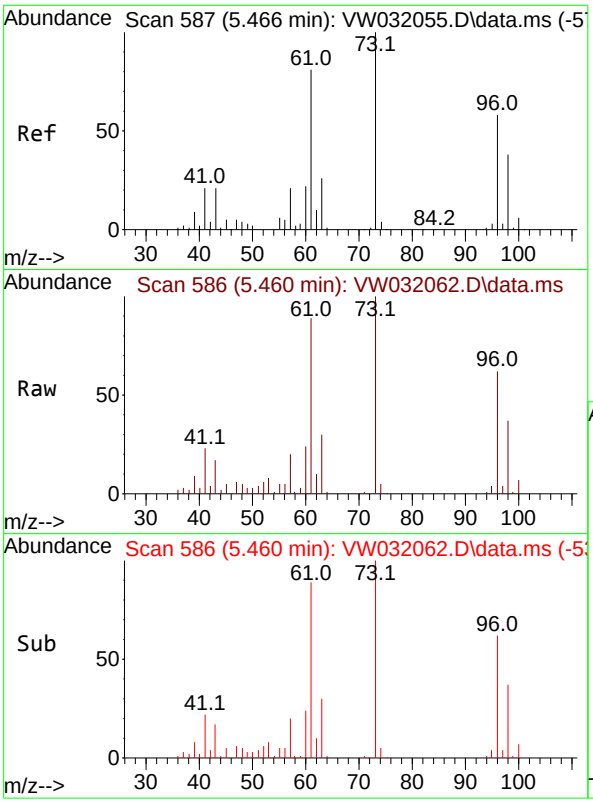



#18
Methyl Acetate
Concen: 21.540 ug/l
RT: 4.710 min Scan# 463
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 43 Resp: 51758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 25.6 | 20.6 | 31.0 |

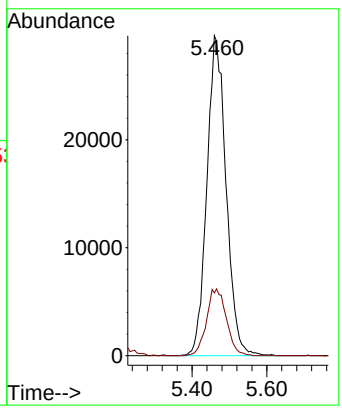





#19
Methyl tert-butyl Ether
Concen: 21.820 ug/l
RT: 5.460 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 73 Resp: 10573

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 19.6 | 17.2 | 25.8 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

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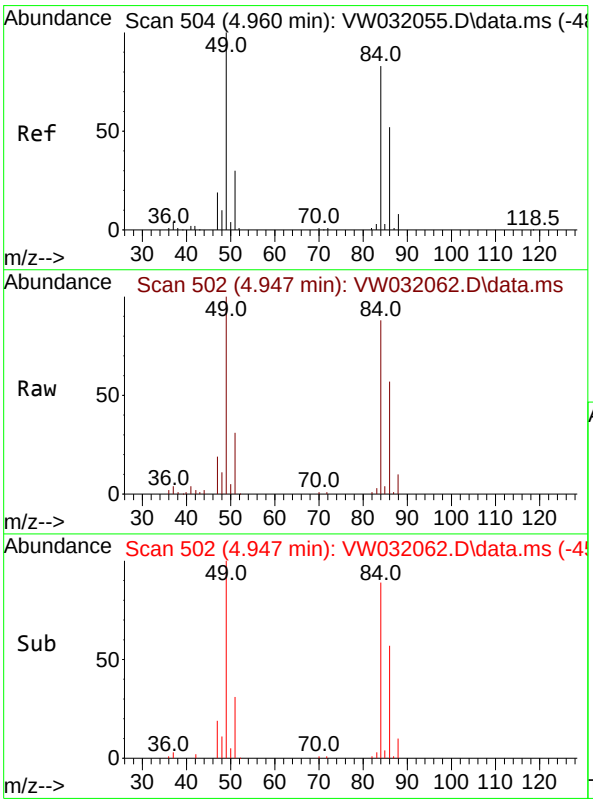
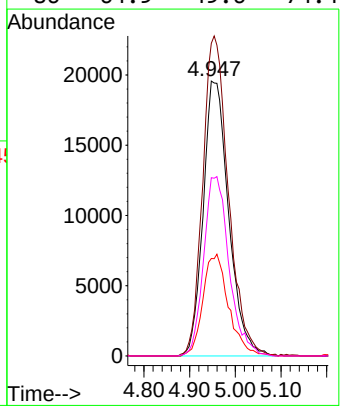
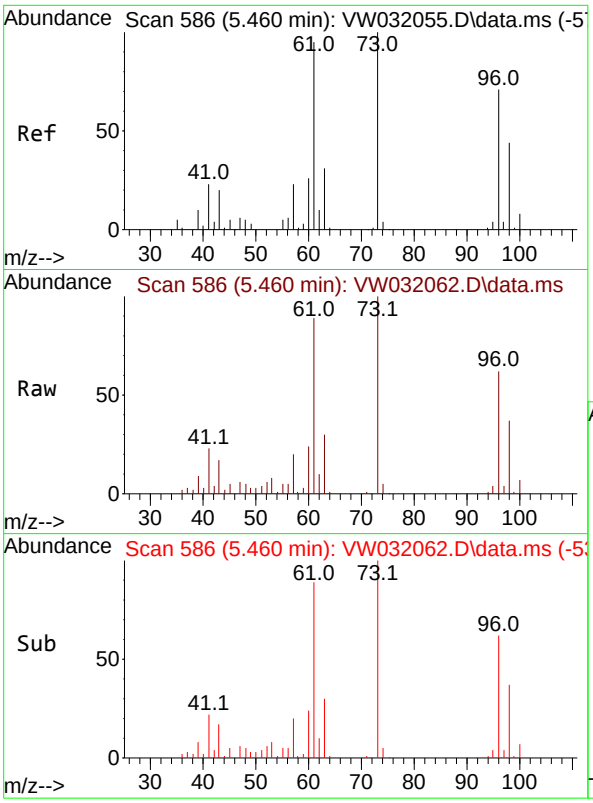



#20
Methylene Chloride
Concen: 21.617 ug/l
RT: 4.947 min Scan# 502
Delta R.T. -0.012 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 84 Resp: 75897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 113.8 | 95.9 | 143.9 |
| 51 | 35.4 | 28.6 | 43.0 |
| 86 | 64.9 | 49.6 | 74.4 |

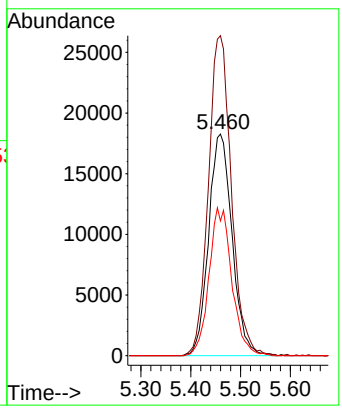





#21
trans-1,2-Dichloroethene
Concen: 20.474 ug/l
RT: 5.460 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 96 Resp: 5975

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 144.4 | 106.8 | 160.2 |
| 98 | 60.8 | 49.6 | 74.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

**Manual Integrations**
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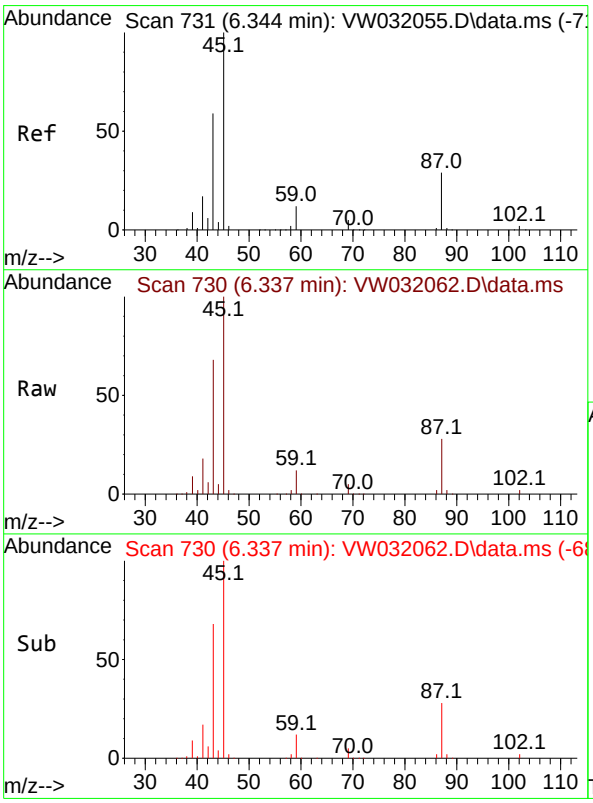
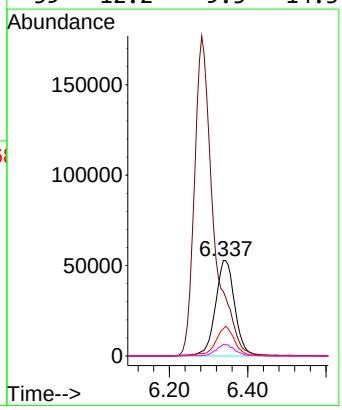
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

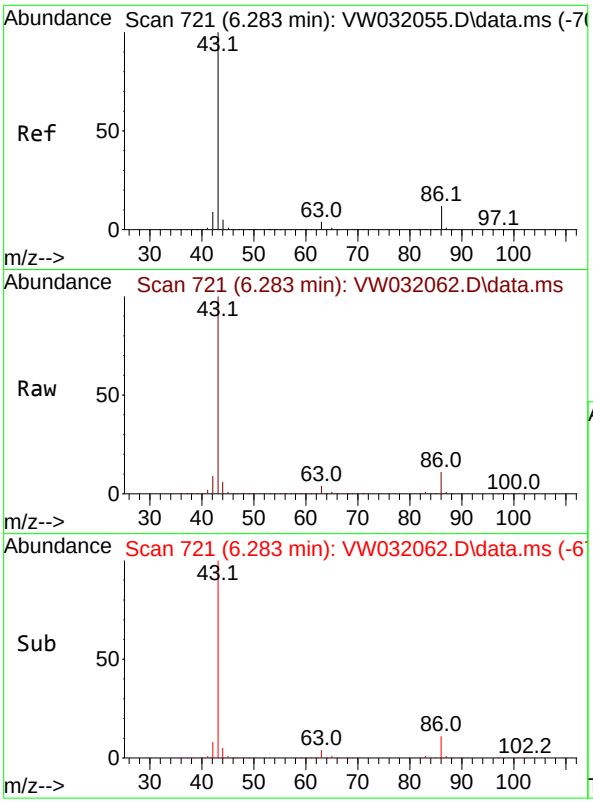



#22
Diisopropyl ether
Concen: 21.493 ug/l
RT: 6.337 min Scan# 730
Delta R.T. -0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 45 Resp: 181364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 67.2 | 47.0 | 70.4 |
| 87 | 28.4 | 23.8 | 35.8 |
| 59 | 12.2 | 9.5 | 14.3 |






#23
Vinyl Acetate
Concen: 107.662 ug/l
RT: 6.283 min Scan# 7
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 43 Resp: 59645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.4 | 9.4 | 14.0 |

**Instrument :**
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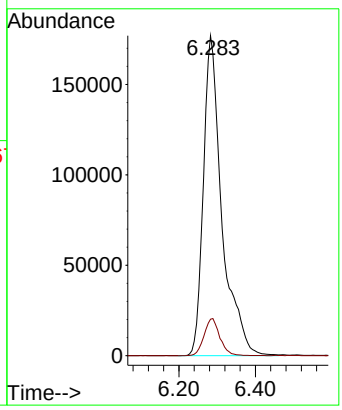
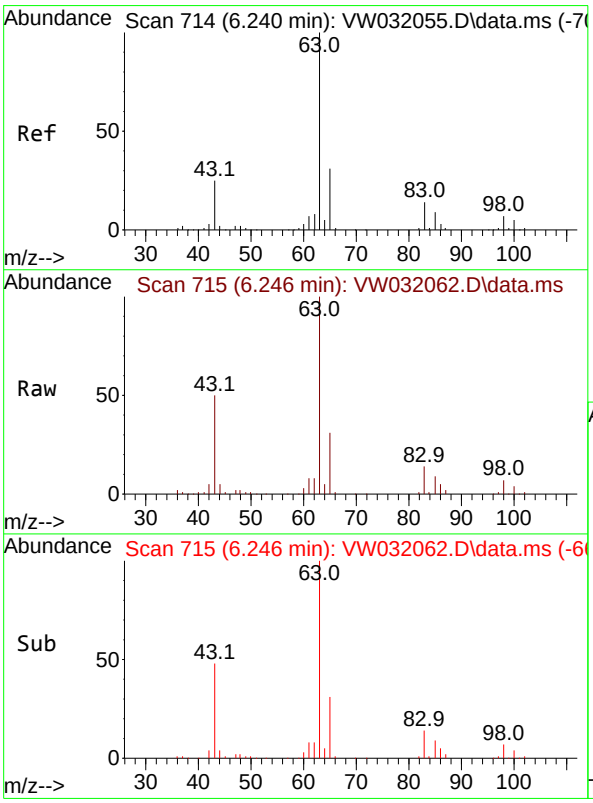
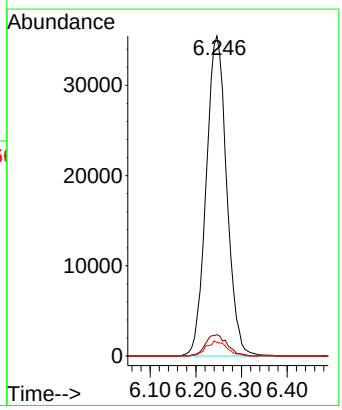


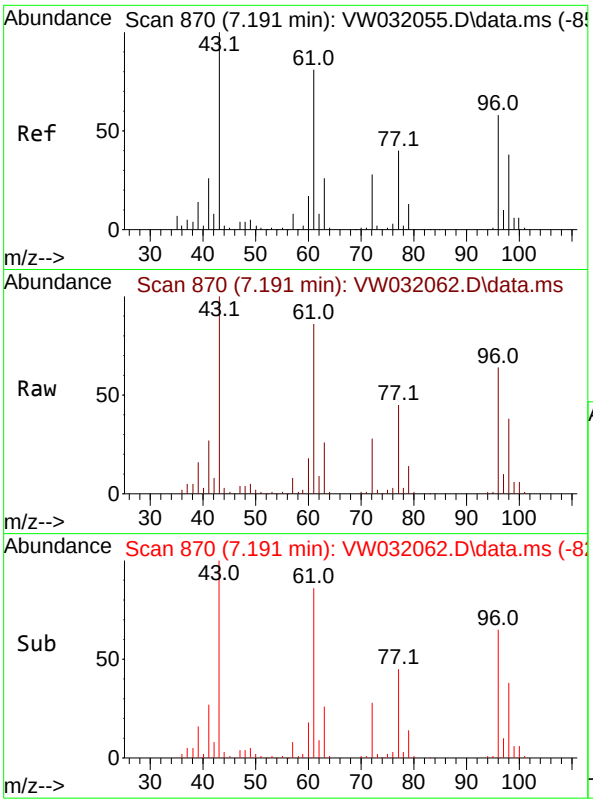




#24
1,1-Dichloroethane
Concen: 20.536 ug/l
RT: 6.246 min Scan# 715
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 63 Resp: 110715

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.6 | 3.7 | 11.1 |
| 100 | 4.2 | 2.5 | 7.4 |

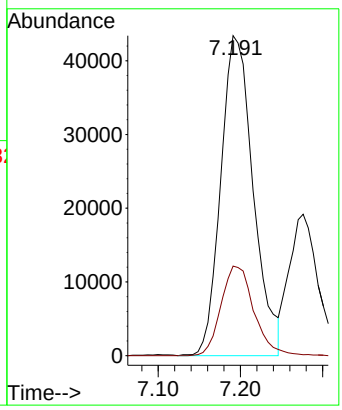





#25
2-Butanone
Concen: 110.592 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 43 Resp: 11935

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 28.0 | 22.3 | 33.5 |




**Instrument :**
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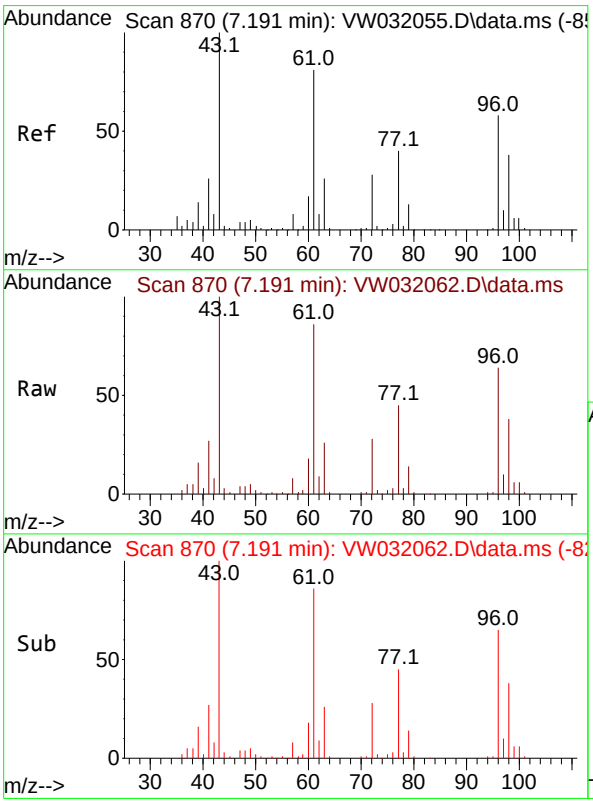
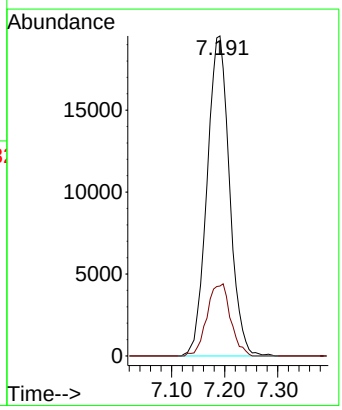
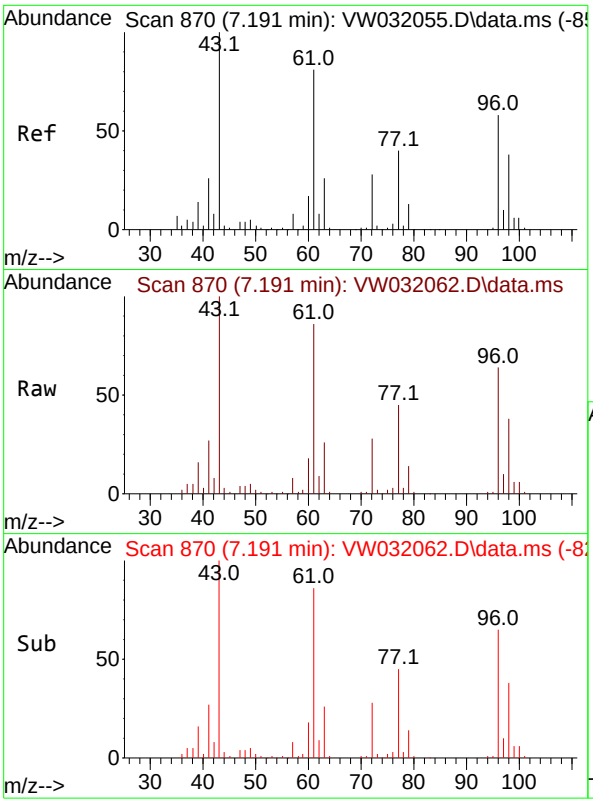



#26
2,2-Dichloropropane
Concen: 21.188 ug/l
RT: 7.191 min Scan# 870
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 77 Resp: 57308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.6 | 12.3 | 36.9 |

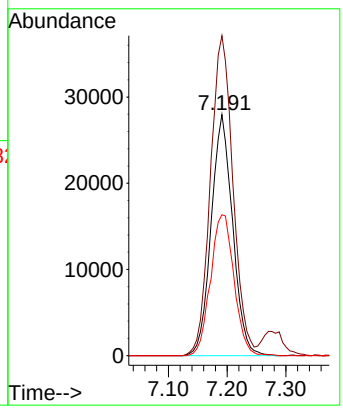





#27
cis-1,2-Dichloroethene
Concen: 20.829 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 96 Resp: 7105

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 139.0 | 0.0 | 281.2 |
| 98 | 63.9 | 0.0 | 130.8 |




**Instrument :**
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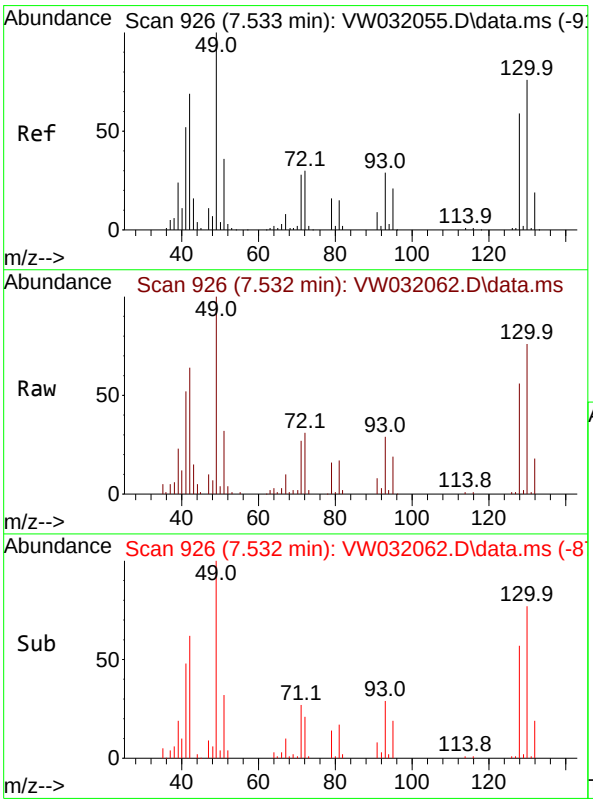
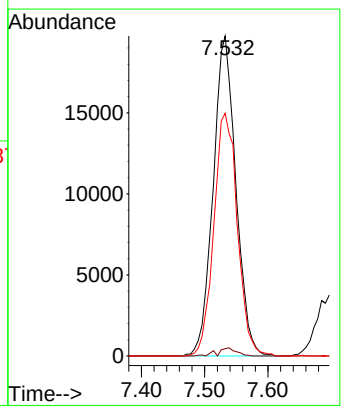
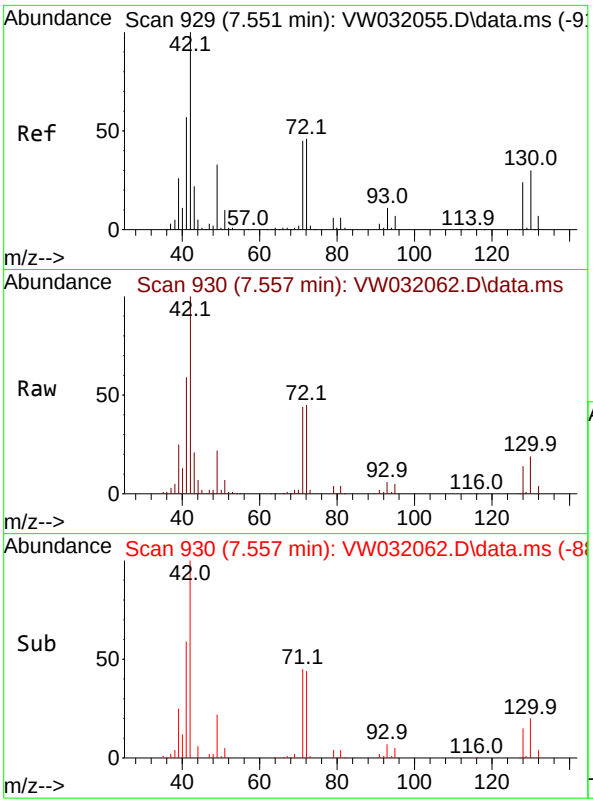



#28
Bromochloromethane
Concen: 20.039 ug/l
RT: 7.532 min Scan# 926
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 49 Resp: 49164

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.6 | 0.0 | 4.2 |
| 130 | 78.4 | 61.9 | 92.9 |

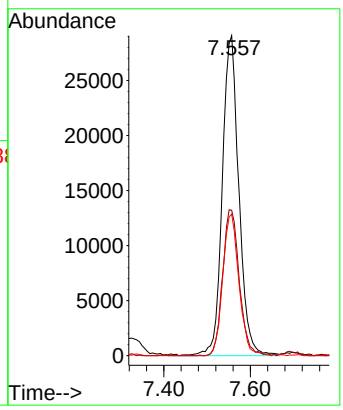





#29
Tetrahydrofuran
Concen: 108.972 ug/l
RT: 7.557 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 42 Resp: 7756

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 46.0 | 36.6 | 55.0 |
| 71 | 43.2 | 34.7 | 52.1 |

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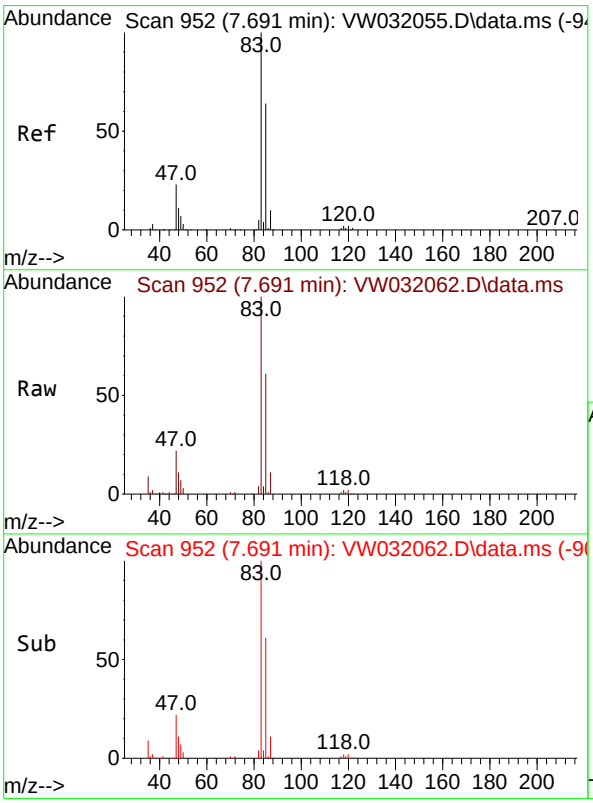
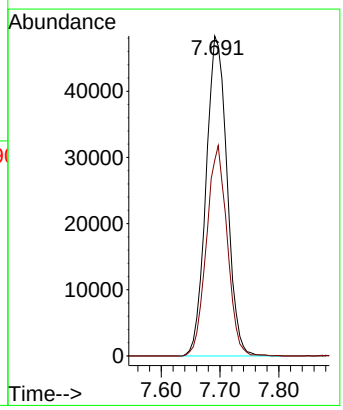
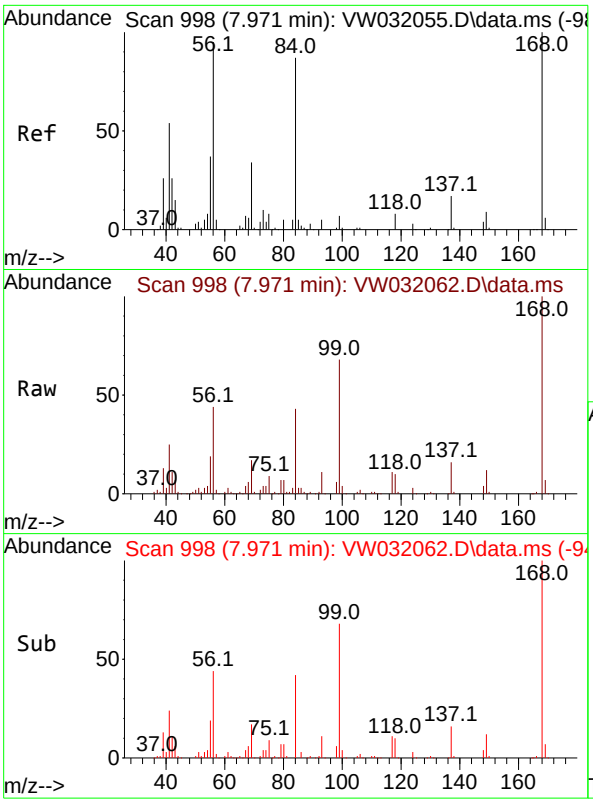



#30
Chloroform
Concen: 20.980 ug/l
RT: 7.691 min Scan# 952
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 83 Resp: 119914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 61.1 | 51.0 | 76.4 |

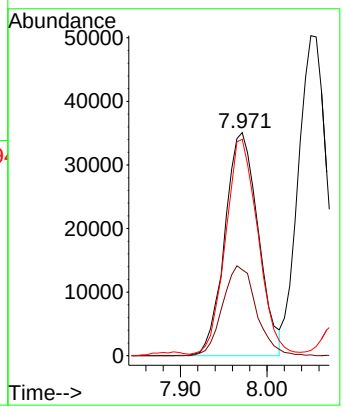





#31
Cyclohexane
Concen: 20.129 ug/l
RT: 7.971 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 56 Resp: 9408

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 38.4 | 28.6 | 42.8 |
| 84 | 95.4 | 73.0 | 109.4 |

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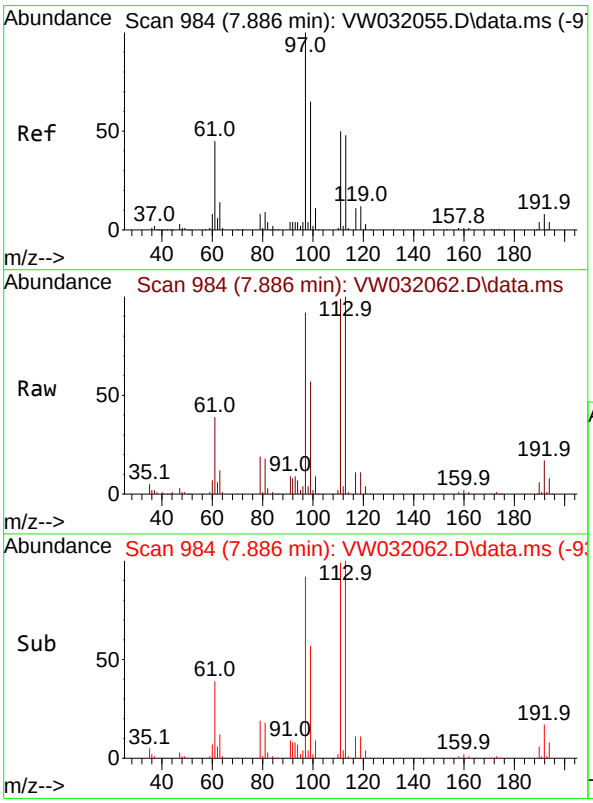
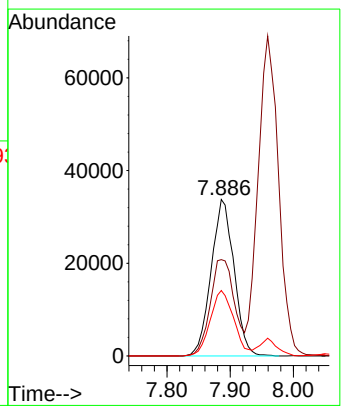
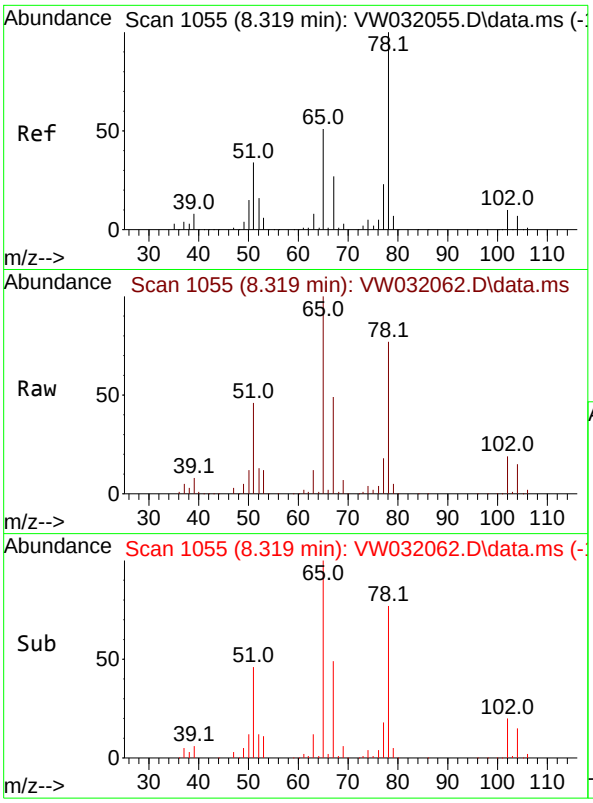



#32
1,1,1-Trichloroethane
Concen: 20.417 ug/l
RT: 7.886 min Scan# 984
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 97 Resp: 84762

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 65.6 | 51.8 | 77.8 |
| 61 | 43.2 | 35.9 | 53.9 |

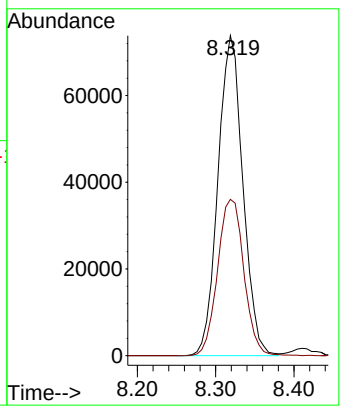





#33
1,2-Dichloroethane-d4
Concen: 49.758 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 65 Resp: 16319

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.6 | 0.0 | 102.4 |

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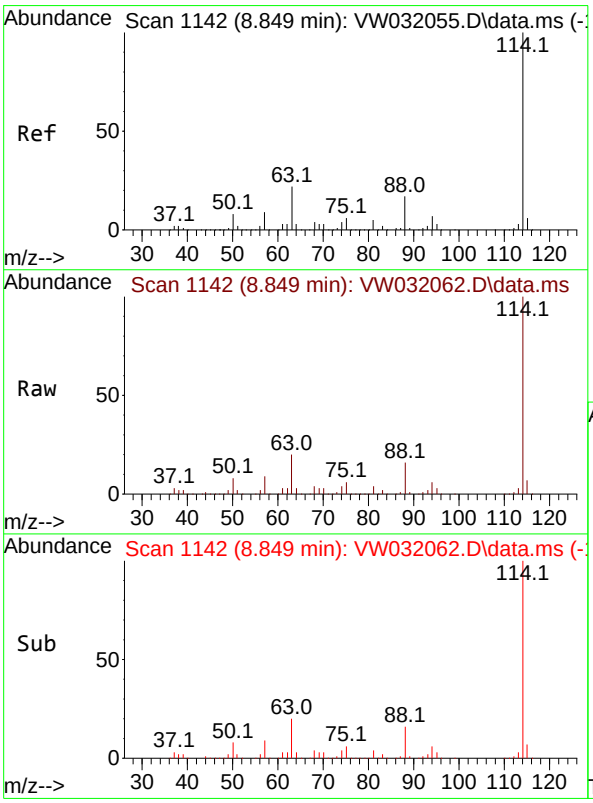
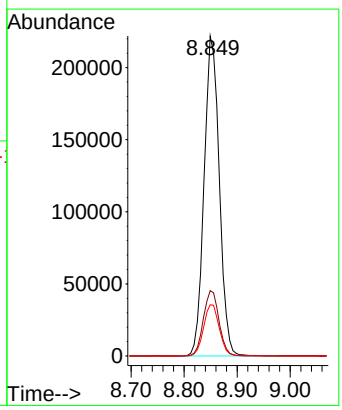
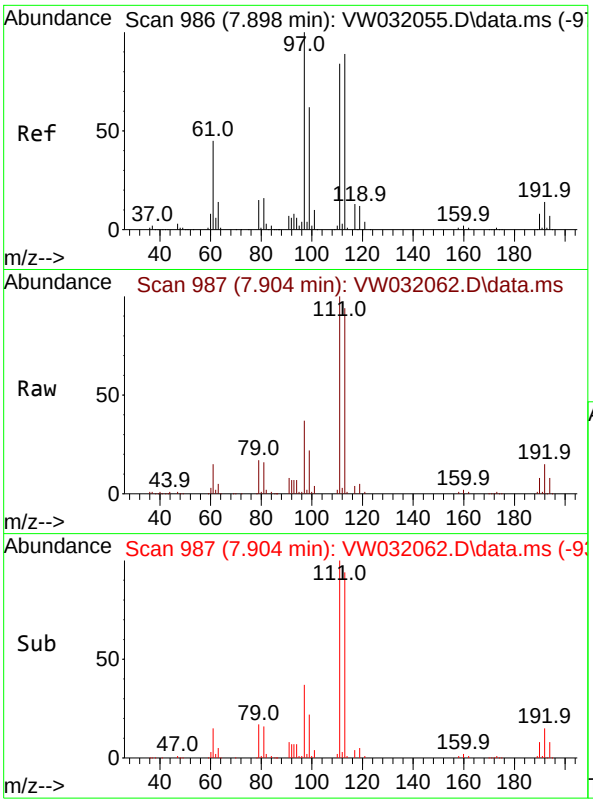



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:114 Resp: 441696

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.4 | 0.0 | 43.0 |
| 88 | 16.0 | 0.0 | 33.8 |

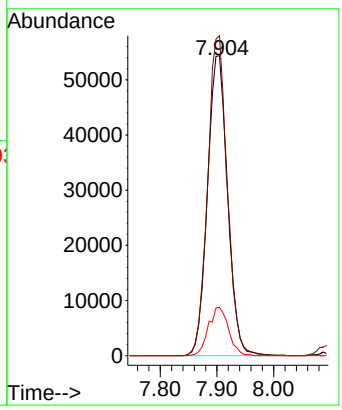





#35
Dibromofluoromethane
Concen: 47.032 ug/l
RT: 7.904 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:113 Resp: 13420

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.7 | 80.1 | 120.1 |
| 192 | 16.1 | 13.1 | 19.7 |

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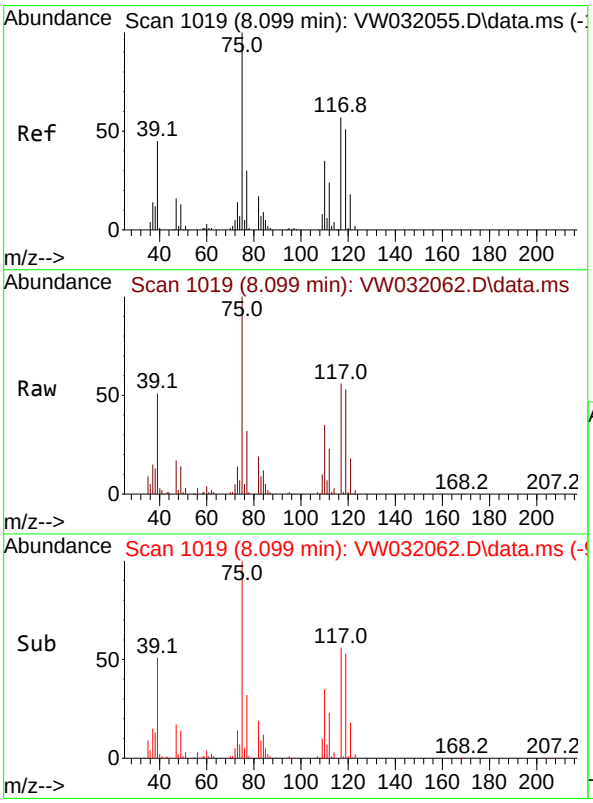
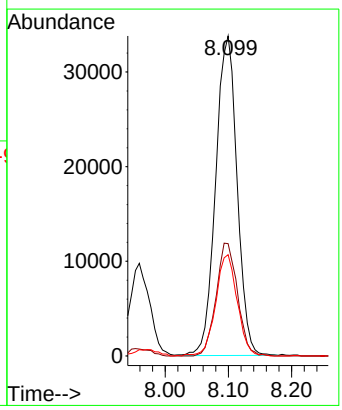
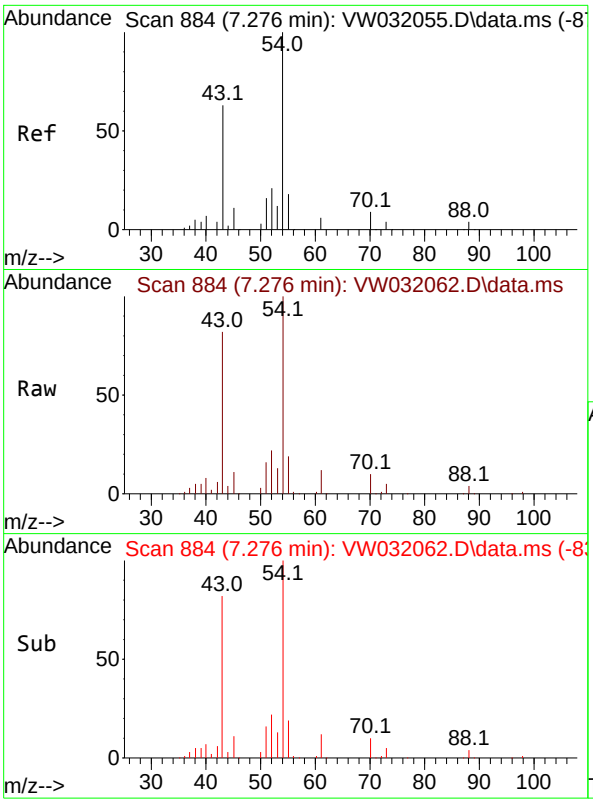



#36
1,1-Dichloropropene
Concen: 19.708 ug/l
RT: 8.099 min Scan# 1019
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 75 Resp: 79280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.3 | 17.4 | 52.2 |
| 77 | 31.9 | 24.7 | 37.1 |

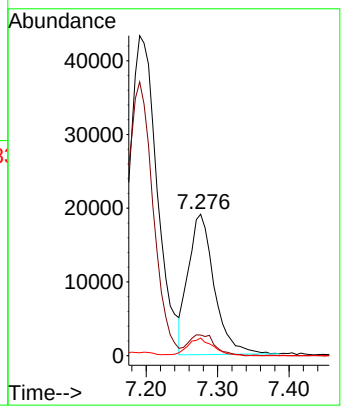





#37
Ethyl Acetate
Concen: 20.284 ug/l
RT: 7.276 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 43 Resp: 4805

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 15.5 | 11.8 | 17.6 |
| 70 | 12.2 | 9.4 | 14.0 |




**Instrument :**
MSVOA_W
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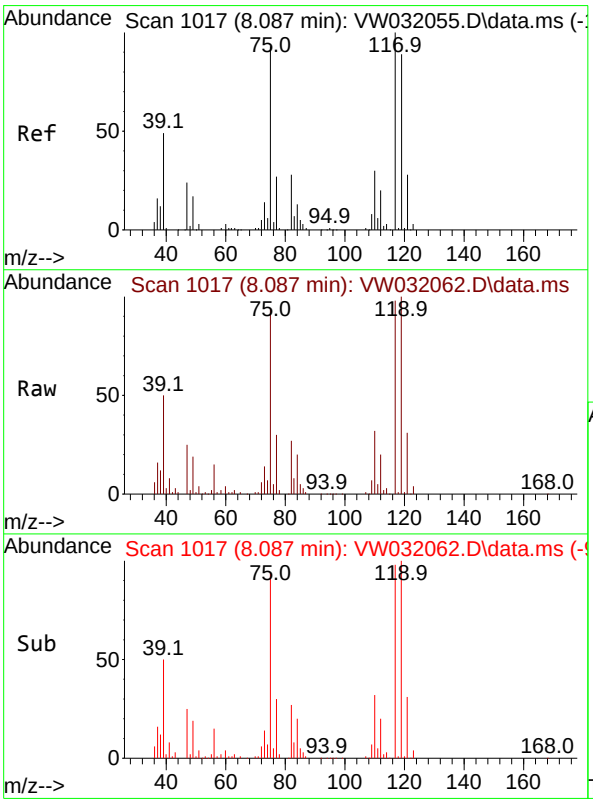
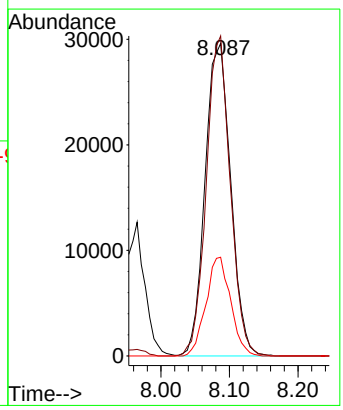
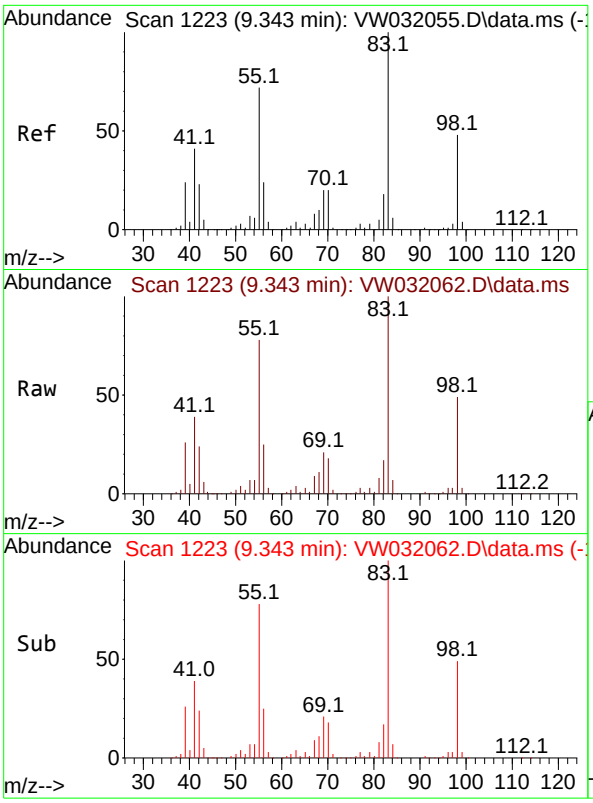



#38
Carbon Tetrachloride
Concen: 19.825 ug/l
RT: 8.087 min Scan# 1017
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:117 Resp: 76962

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 102.4 | 71.4 | 107.2 |
| 121 | 31.6 | 22.3 | 33.5 |

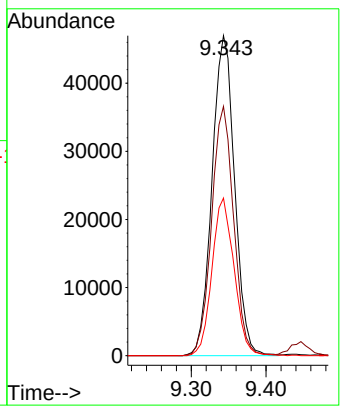





#39
Methylcyclohexane
Concen: 20.117 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 83 Resp: 9863

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 77.9 | 57.9 | 86.9 |
| 98 | 49.2 | 38.3 | 57.5 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

**Manual Integrations**
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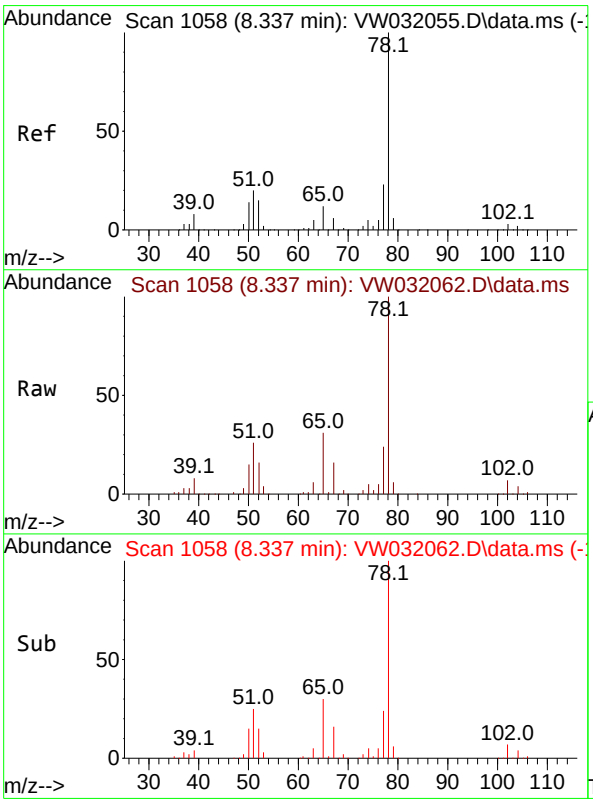
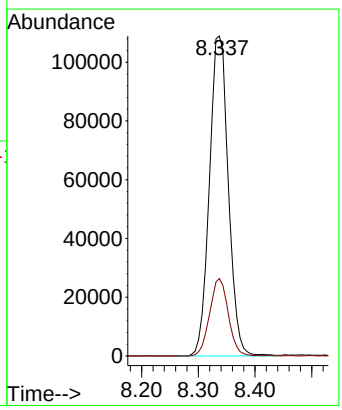
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

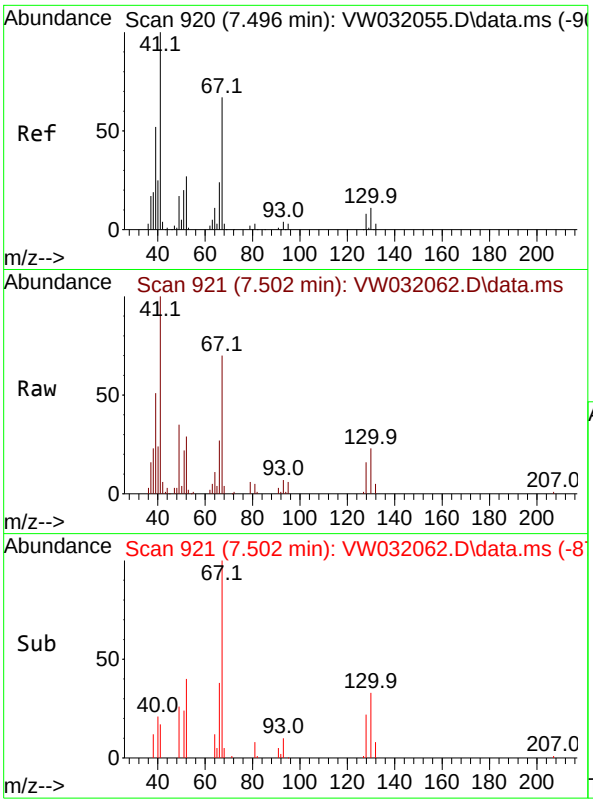



#40
Benzene
Concen: 20.229 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 78 Resp: 252942

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.2 | 18.4 | 27.6 |

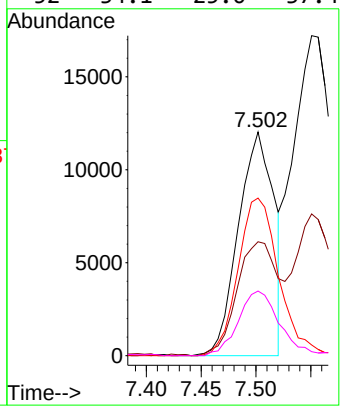





#41
Methacrylonitrile
Concen: 20.188 ug/l
RT: 7.502 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 41 Resp: 2712

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 60.3 | 42.6 | 63.8 |
| 67 | 81.2 | 61.0 | 91.4 |
| 52 | 34.1 | 25.0 | 37.4 |




**Instrument :**
MSVOA_W
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**Manual Integrations**
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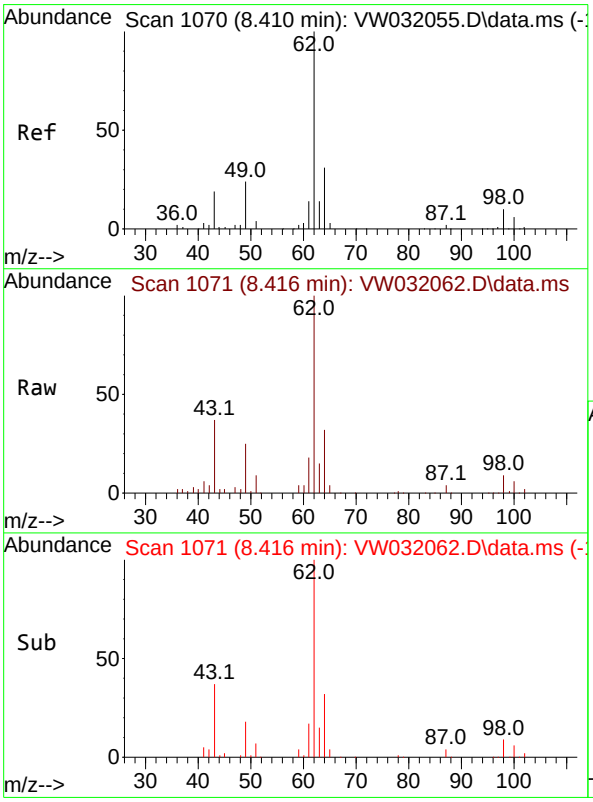
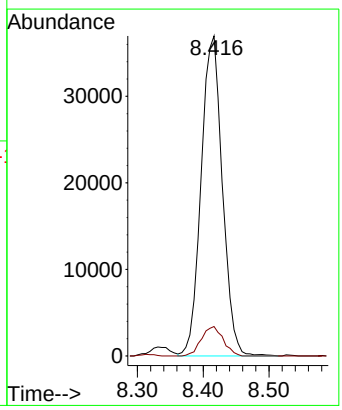
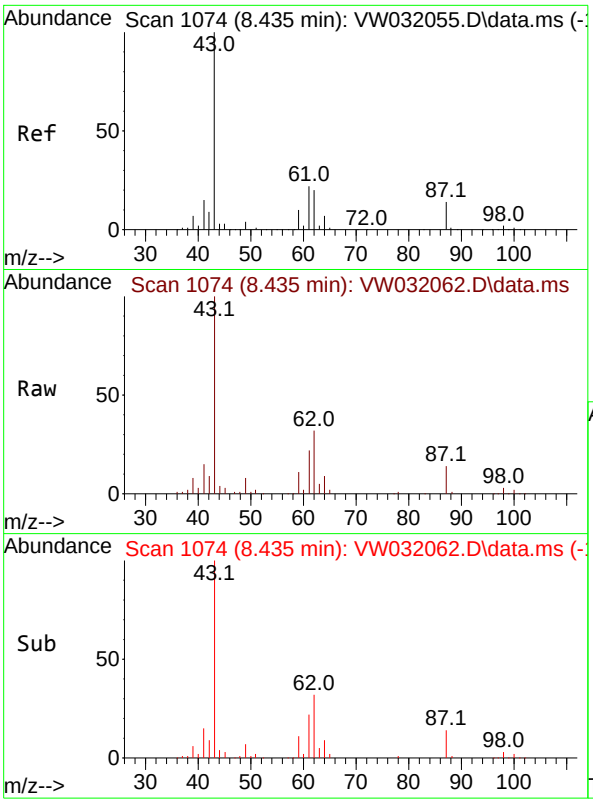



#42
1,2-Dichloroethane
Concen: 20.784 ug/l
RT: 8.416 min Scan# 1071
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 62 Resp: 83160

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.4 | 0.0 | 19.8 |

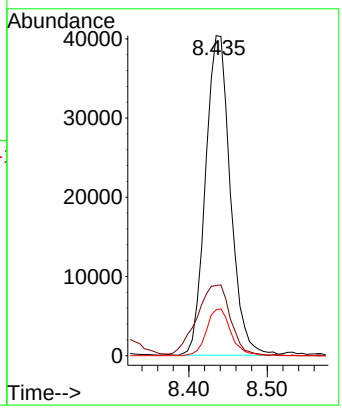





#43
Isopropyl Acetate
Concen: 20.393 ug/l
RT: 8.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 43 Resp: 8889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 30.0 | 23.8 | 35.8 |
| 87 | 14.3 | 11.7 | 17.5 |




**Instrument :**
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**Manual Integrations**
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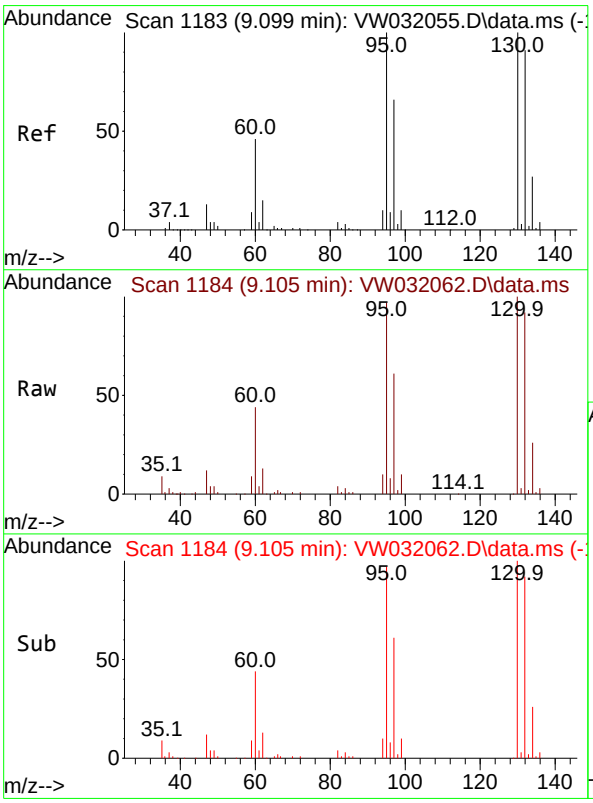
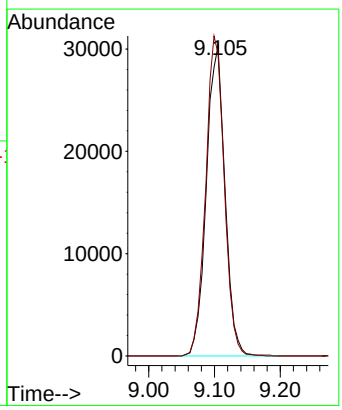
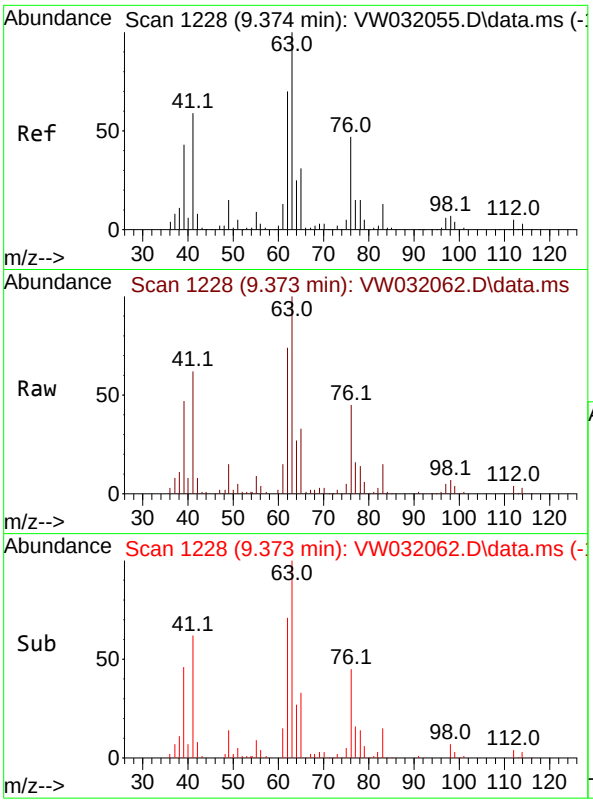



#44
Trichloroethene
Concen: 20.095 ug/l
RT: 9.105 min Scan# 1184
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:130 Resp: 59840

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 97.4 | 0.0 | 200.6 |

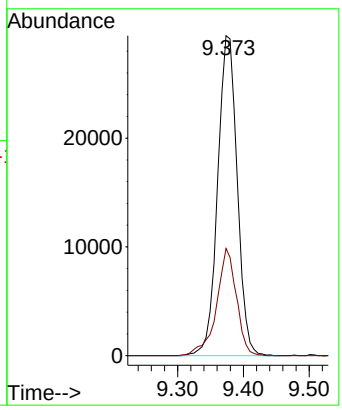





#45
1,2-Dichloropropane
Concen: 20.135 ug/l
RT: 9.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 63 Resp: 6082

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 33.5 | 24.6 | 36.8 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
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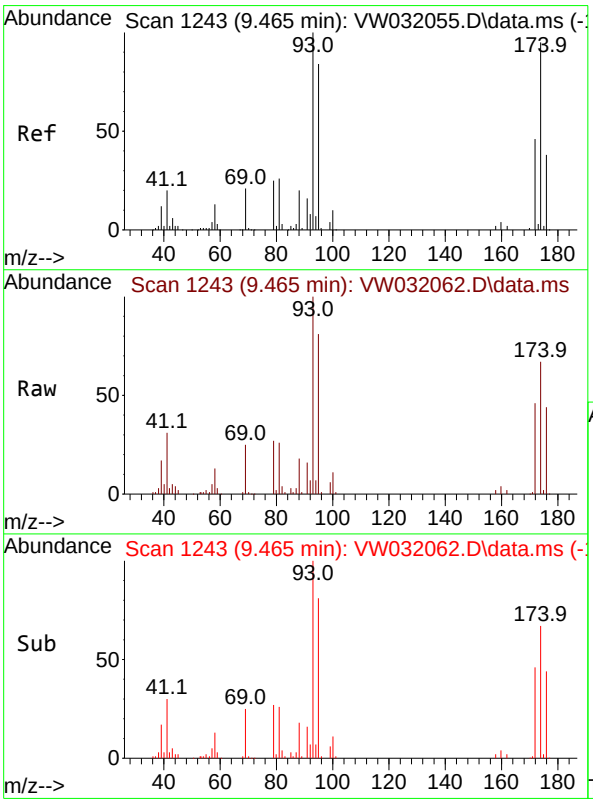
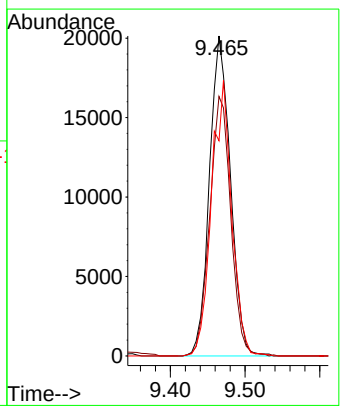
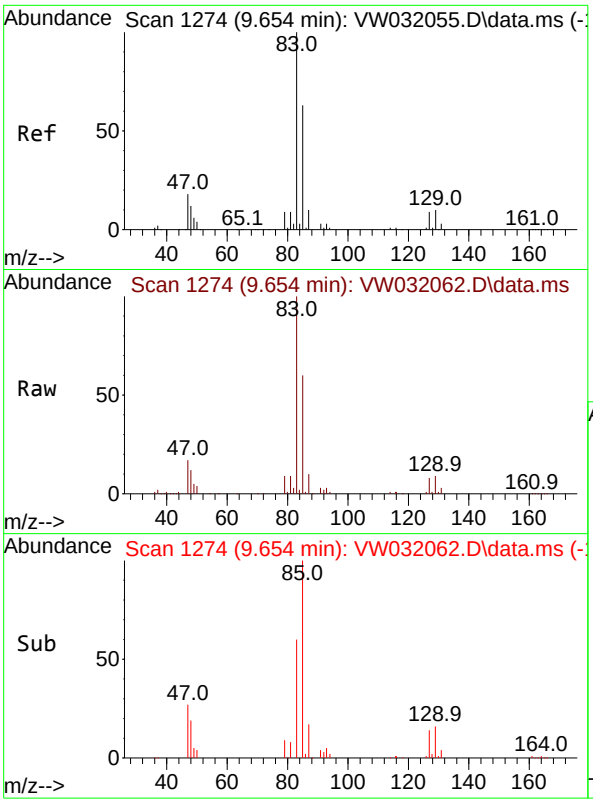



#46
Dibromomethane
Concen: 20.151 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 93 Resp: 39289

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 81.3 | 65.3 | 97.9 |
| 174 | 83.3 | 68.6 | 102.8 |

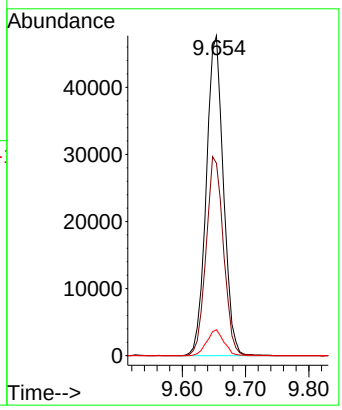





#47
Bromodichloromethane
Concen: 19.980 ug/l
RT: 9.654 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 83 Resp: 8976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 60.2 | 50.6 | 75.8 |
| 127 | 8.1 | 6.9 | 10.3 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

**Manual Integrations**
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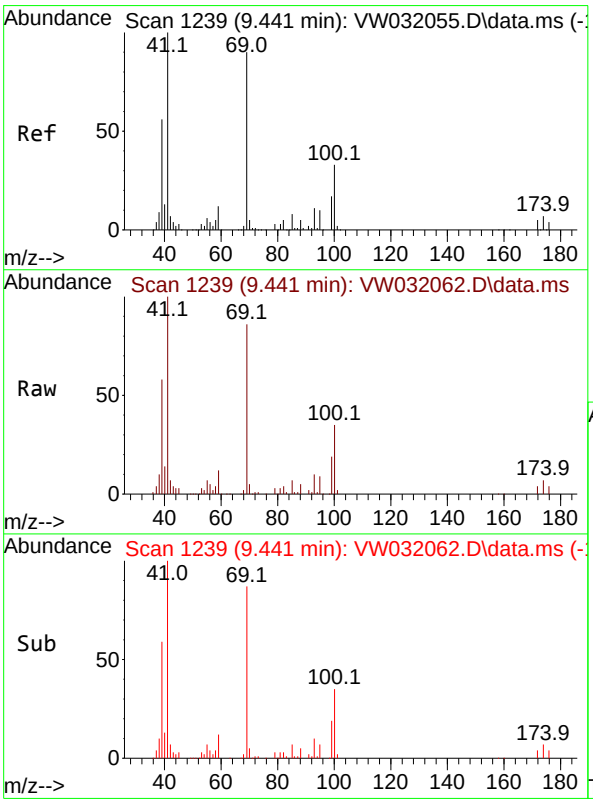
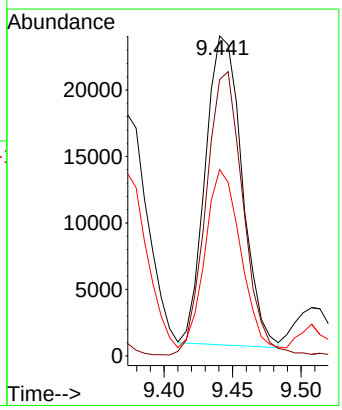
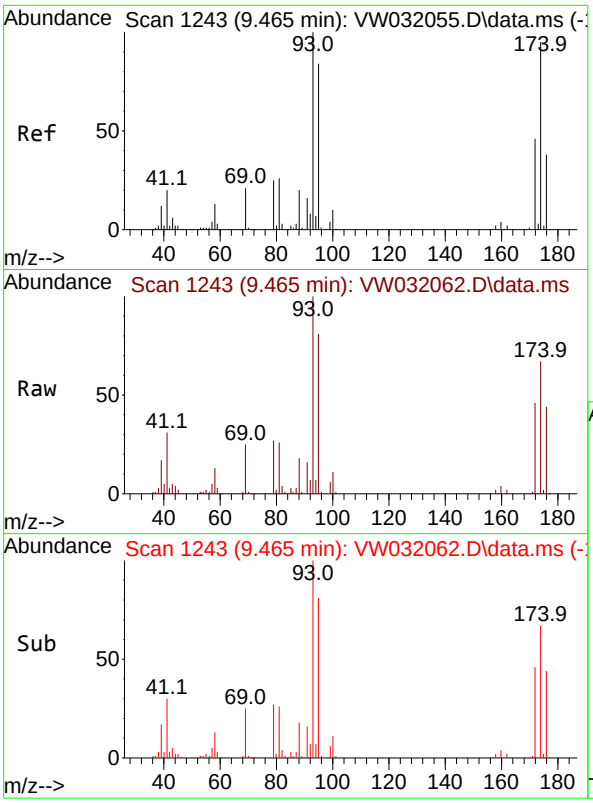



#48
Methyl methacrylate
Concen: 20.539 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 41 Resp: 43222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 93.2 | 73.0 | 109.6 |
| 39 | 56.3 | 45.0 | 67.4 |






#49
1,4-Dioxane
Concen: 419.936 ug/l
RT: 9.465 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 88 Resp: 1058

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 23.5 | 20.6 | 30.8 |
| 58 | 61.8 | 60.4 | 90.6 |

**Instrument :**
MSVOA_W
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VW0811SBSD01

**Manual Integrations**
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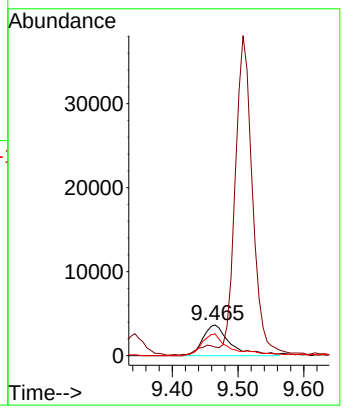
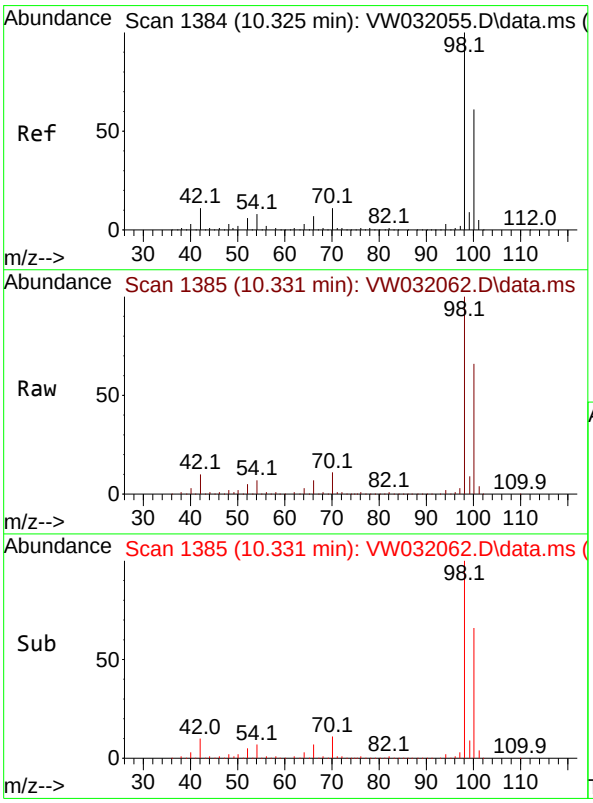
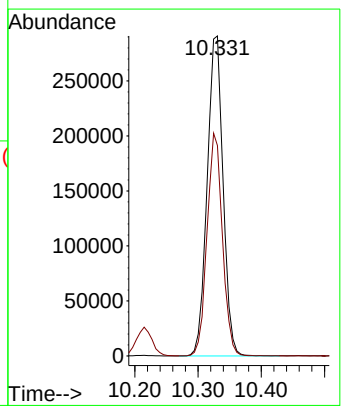


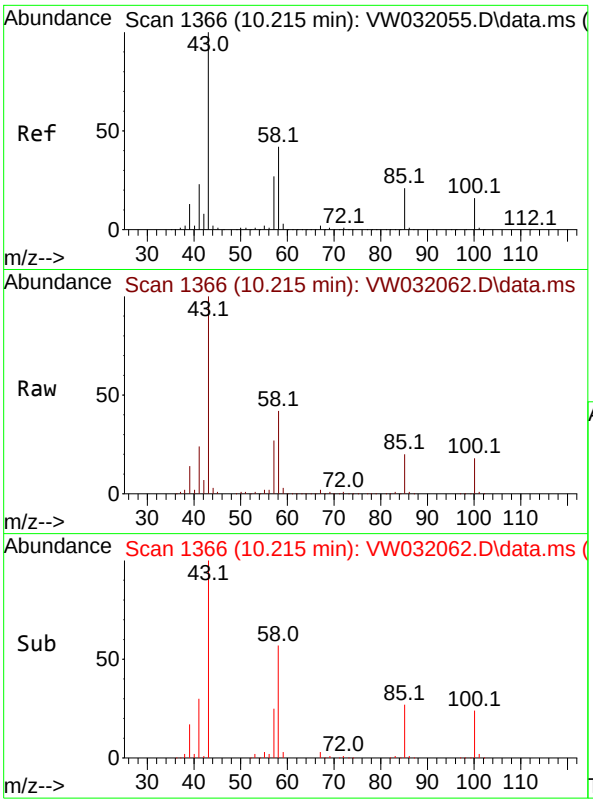




#50
Toluene-d8
Concen: 48.296 ug/l
RT: 10.331 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 98 Resp: 509734

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 67.2 | 51.1 | 76.7 |






#51
4-Methyl-2-Pentanone
Concen: 104.852 ug/l
RT: 10.215 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 43 Resp: 25797

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 41.1 | 33.1 | 49.7 |

**Instrument :**
MSVOA_W
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VW0811SBSD01

**Manual Integrations**
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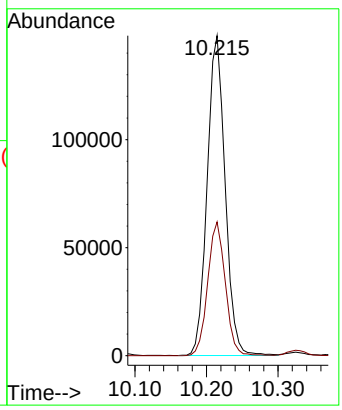
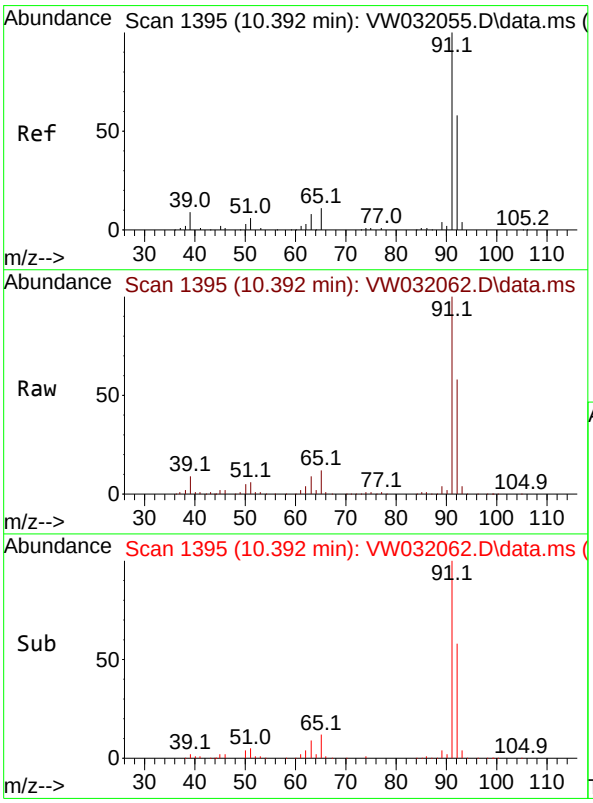
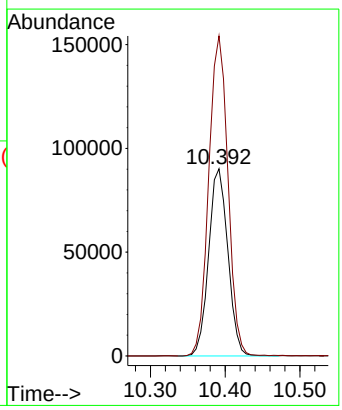


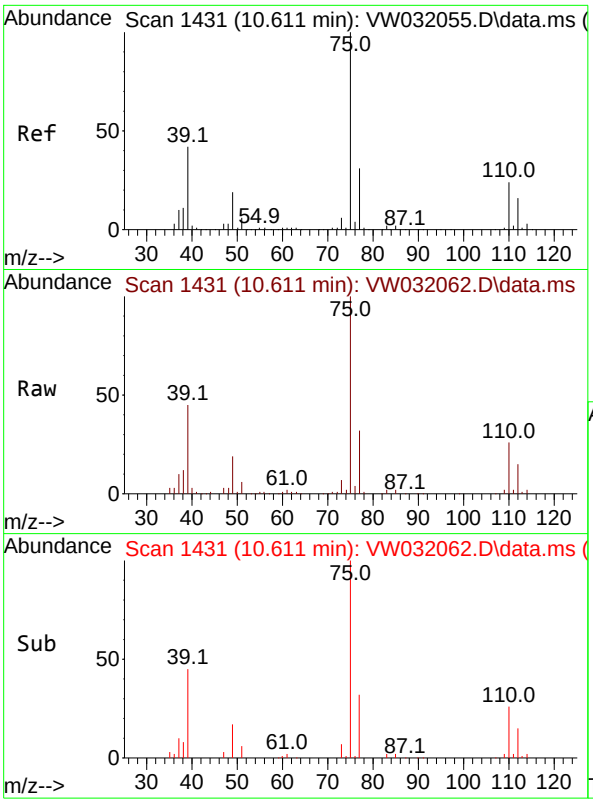




#52
Toluene
Concen: 20.465 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 92 Resp: 161185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 170.9 | 136.3 | 204.5 |






#53
t-1,3-Dichloropropene
Concen: 19.991 ug/l
RT: 10.611 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 75 Resp: 8414

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.9 | 25.0 | 37.6 |

**Instrument :**
MSVOA_W
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VW0811SBSD01

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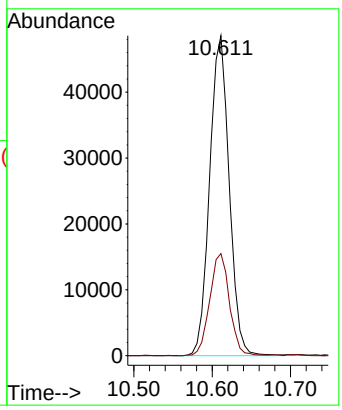
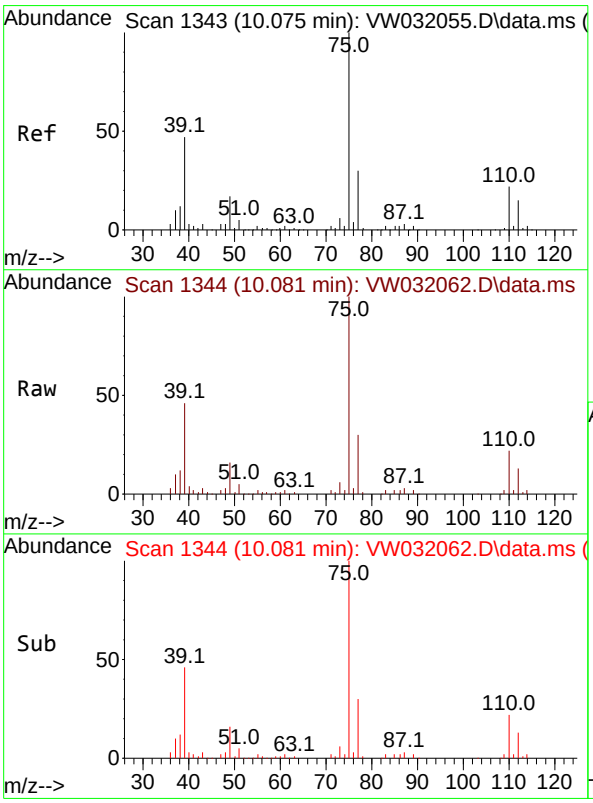
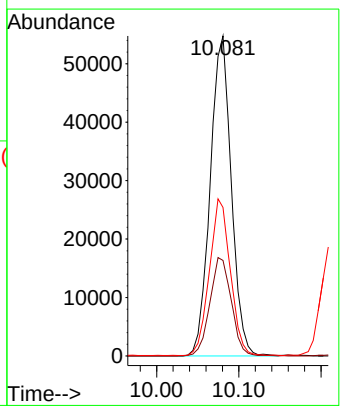


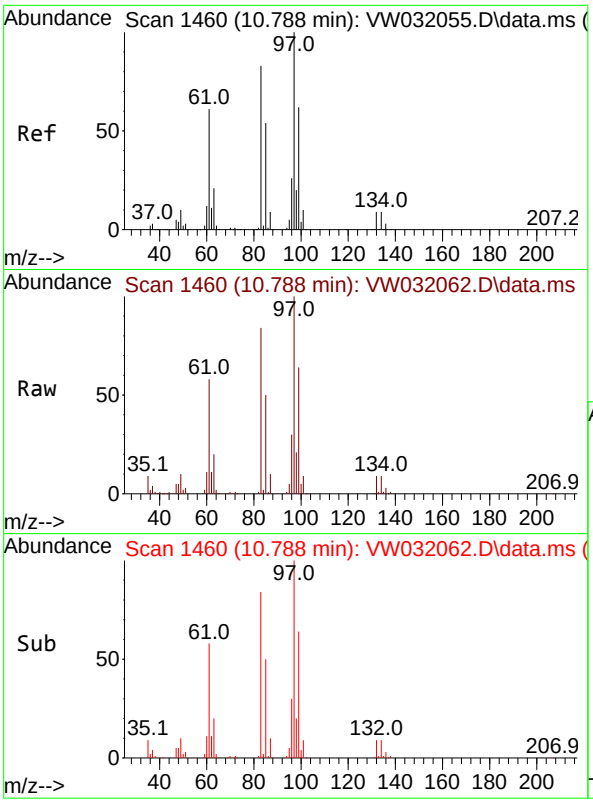




#54
cis-1,3-Dichloropropene
Concen: 20.444 ug/l
RT: 10.081 min Scan# 1344
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 75 Resp: 97621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 29.9 | 24.0 | 36.0 |
| 39 | 46.2 | 37.8 | 56.8 |

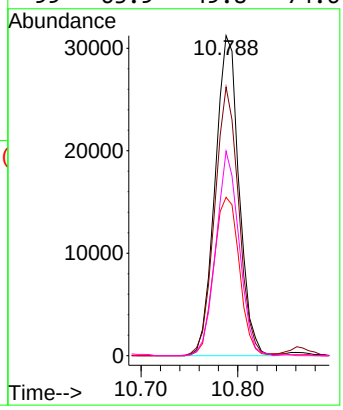





#55
1,1,2-Trichloroethane
Concen: 20.722 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 97 Resp: 5368

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 84.0 | 66.4 | 99.6 |
| 85 | 49.5 | 43.1 | 64.7 |
| 99 | 63.9 | 49.8 | 74.6 |

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MSVOA_W
**ClientSampleId :**
VW0811SBSD01

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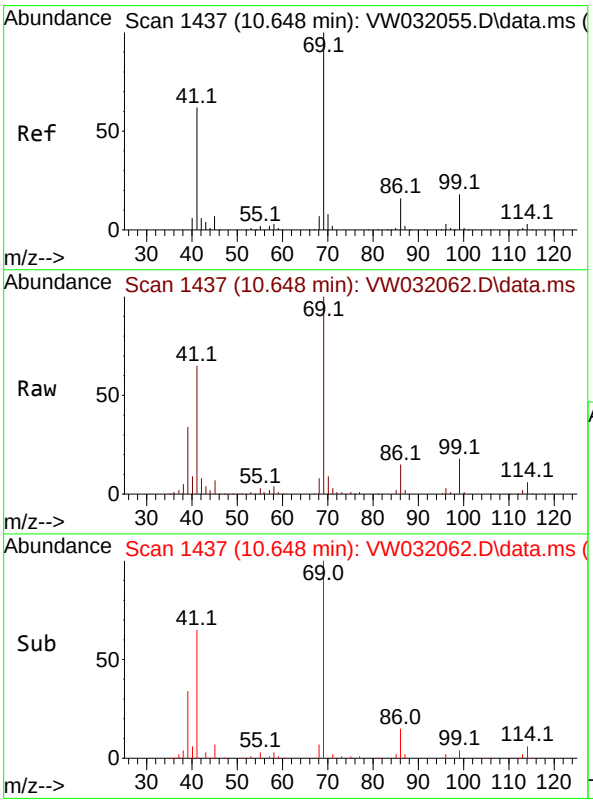
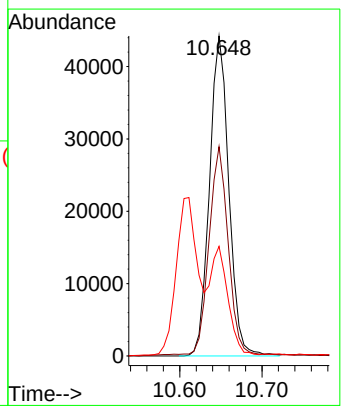
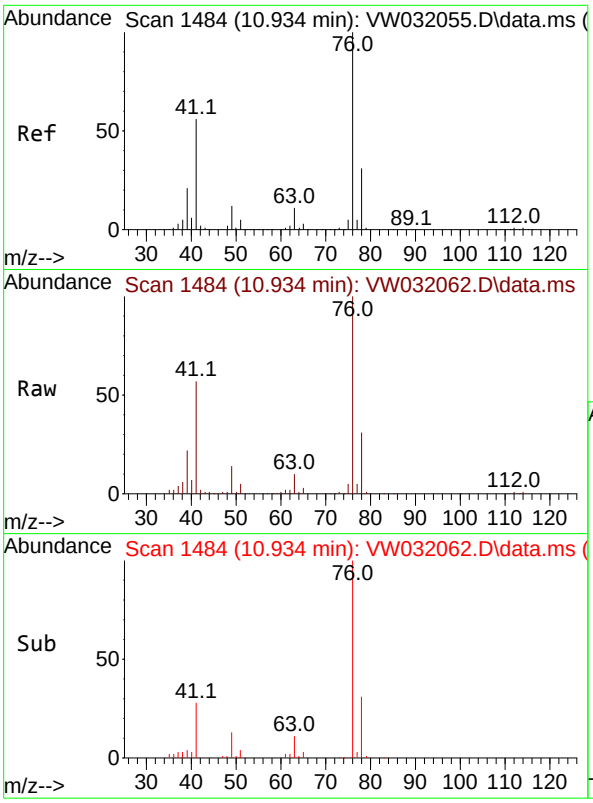



#56
Ethyl methacrylate
Concen: 20.854 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 69 Resp: 72299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 66.8 | 51.2 | 76.8 |
| 39 | 31.4 | 25.4 | 38.0 |

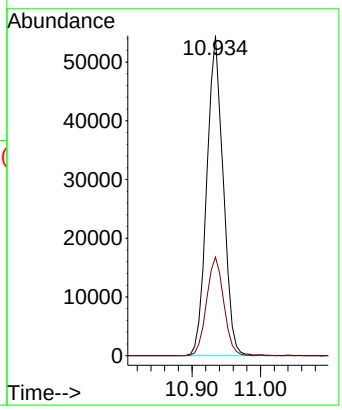





#57
1,3-Dichloropropane
Concen: 20.061 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 76 Resp: 9059

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.2 | 25.8 | 38.6 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

**Manual Integrations**
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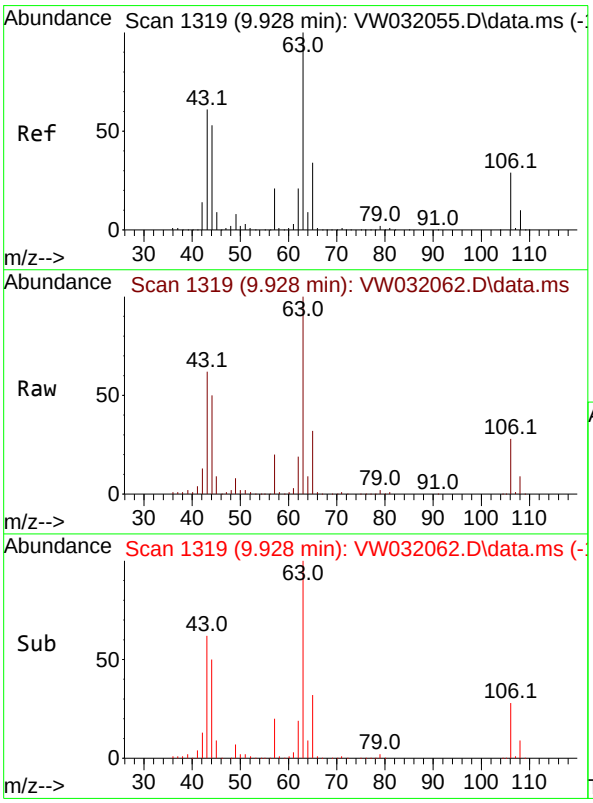
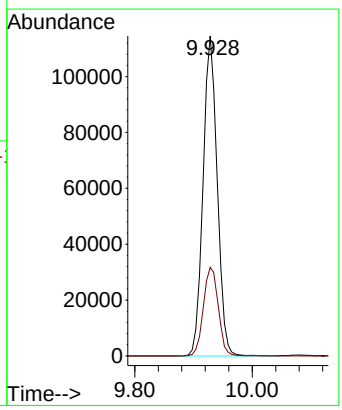
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

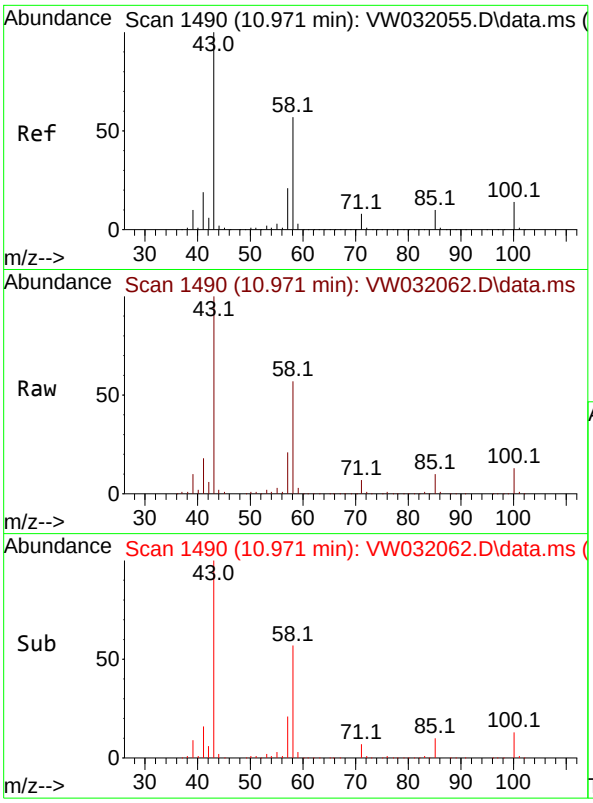



#58
2-Chloroethyl Vinyl ether
Concen: 100.139 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 63 Resp: 192035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 29.1 | 23.5 | 35.3 |

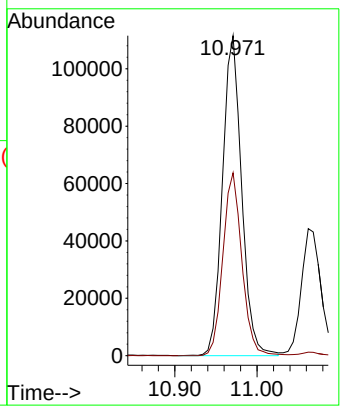





#59
2-Hexanone
Concen: 106.193 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 43 Resp: 18094

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 56.7 | 28.3 | 85.0 |

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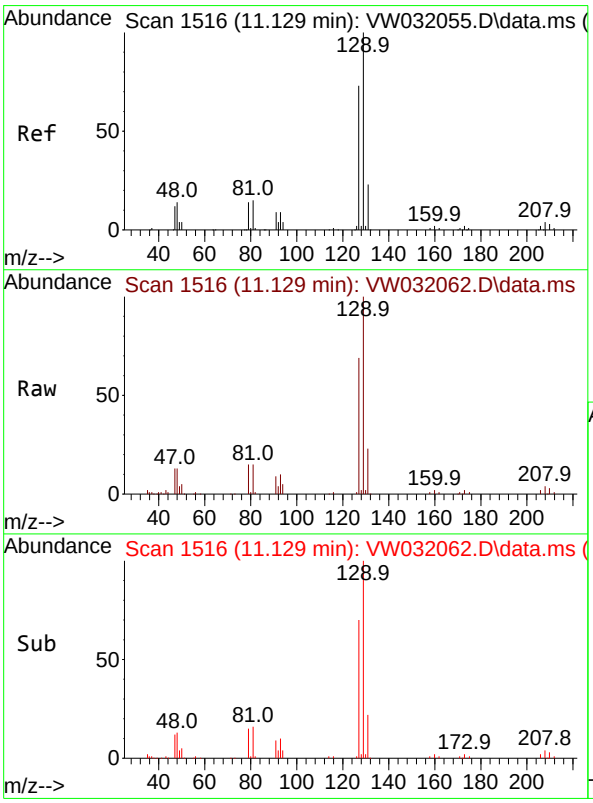
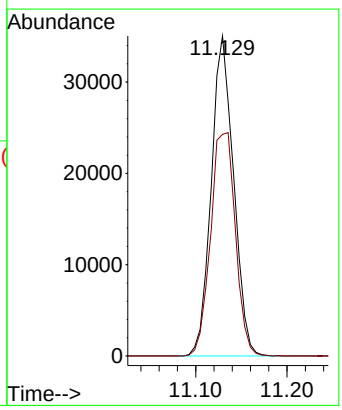
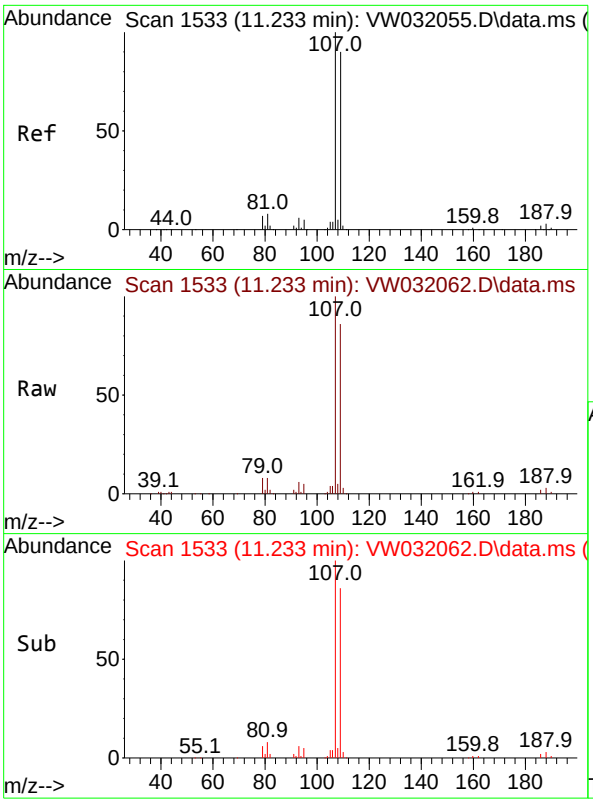



#60
Dibromochloromethane
Concen: 20.081 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:129 Resp: 59430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.8 | 39.0 | 116.9 |

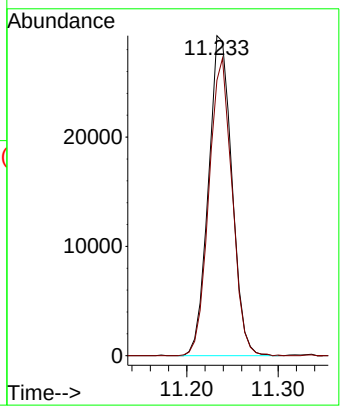





#61
1,2-Dibromoethane
Concen: 20.693 ug/l
RT: 11.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:107 Resp: 5210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 91.7 | 74.2 | 111.4 |

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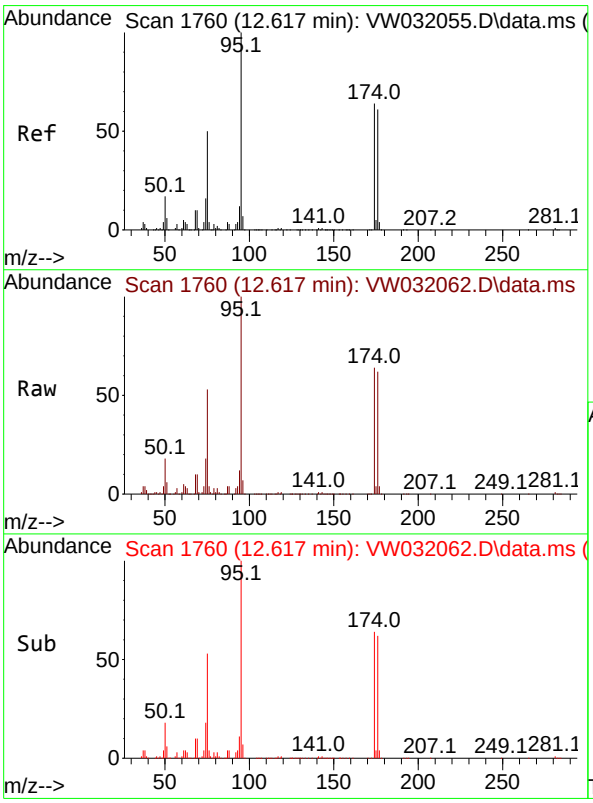
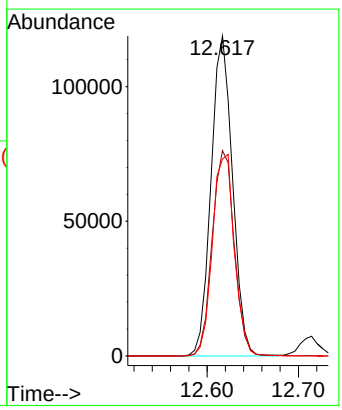
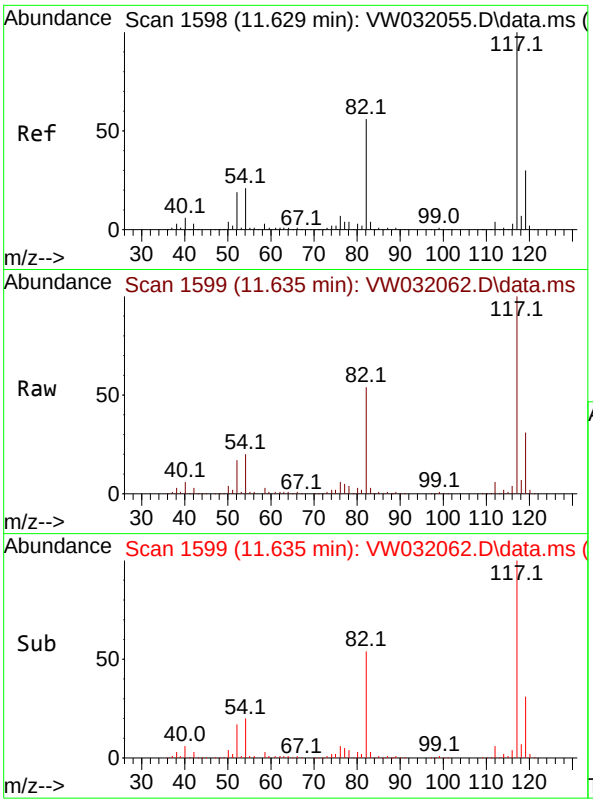



#62
4-Bromofluorobenzene
Concen: 49.782 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 95 Resp: 193625

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 65.9 | 0.0 | 129.0 |
| 176 | 64.6 | 0.0 | 124.6 |

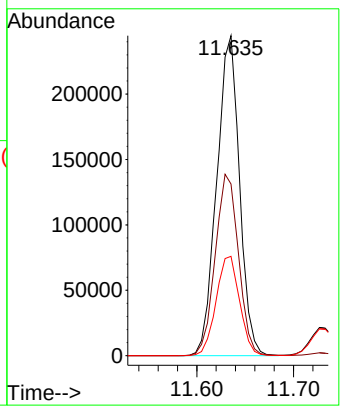





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:117 Resp: 40024

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 53.6 | 45.0 | 67.4 |
| 119 | 31.1 | 24.2 | 36.4 |

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MSVOA_W
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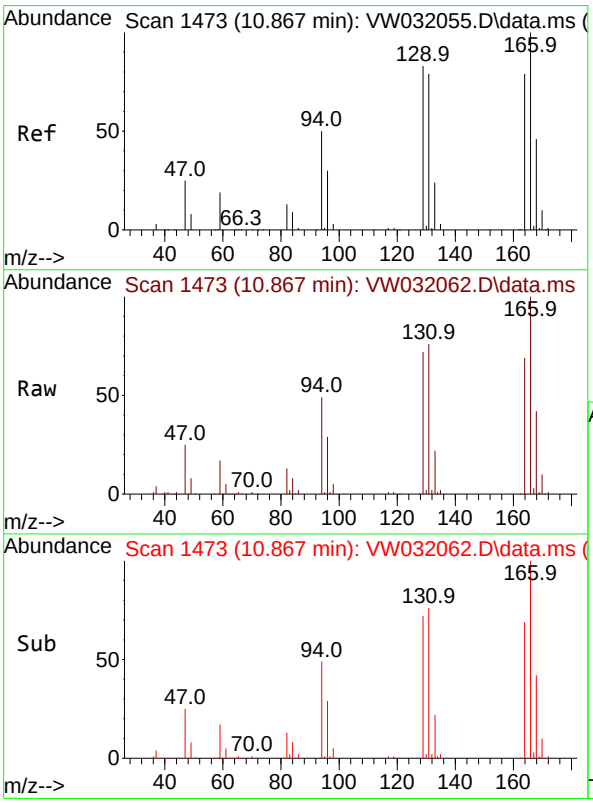
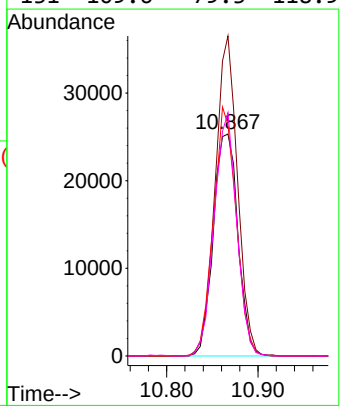
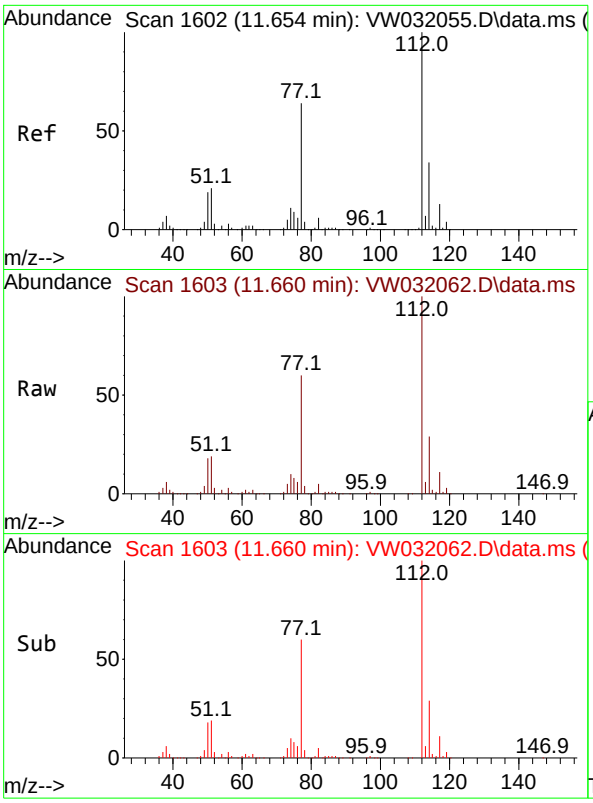



#64
Tetrachloroethene
Concen: 20.534 ug/l
RT: 10.867 min Scan# 1473
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:164 Resp: 47470

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 144.2 | 100.9 | 151.3 |
| 129 | 104.1 | 83.6 | 125.4 |
| 131 | 109.6 | 79.3 | 118.9 |

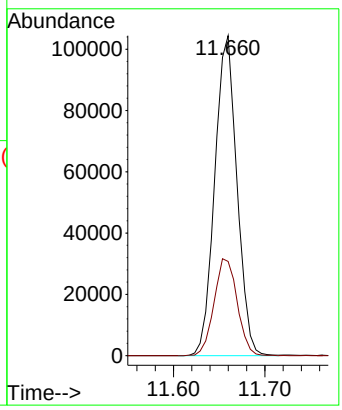





#65
Chlorobenzene
Concen: 20.247 ug/l
RT: 11.660 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:112 Resp: 17639

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 29.5 | 26.9 | 40.3 |




**Instrument :**
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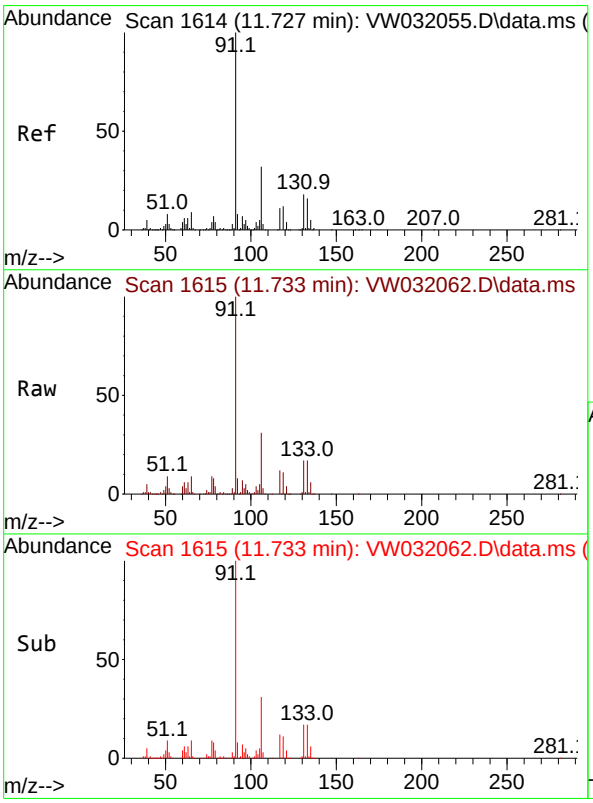
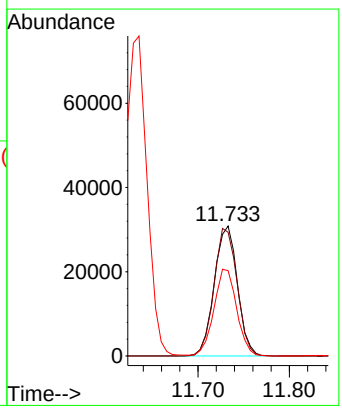
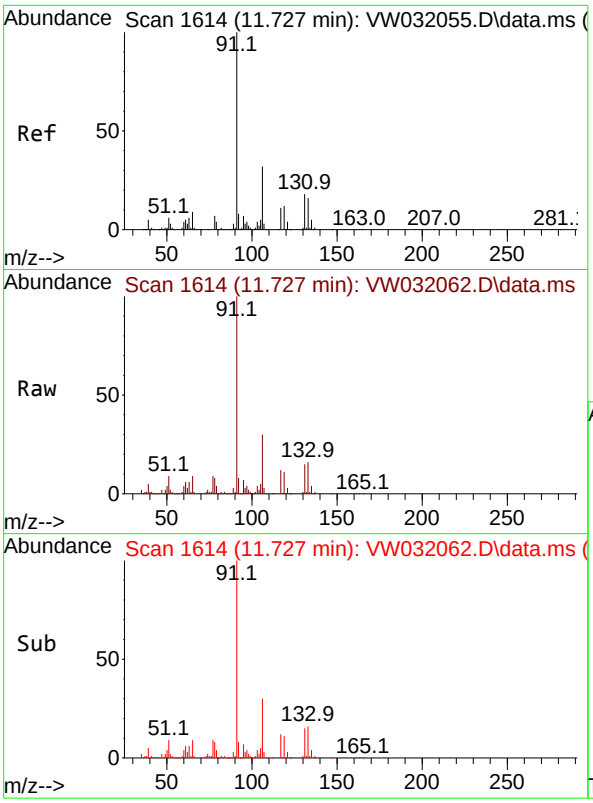



#66
1,1,1,2-Tetrachloroethane
Concen: 19.988 ug/l
RT: 11.733 min Scan# 1615
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:131 Resp: 54330

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 97.9 | 47.3 | 142.0 |
| 119 | 65.8 | 34.5 | 103.5 |

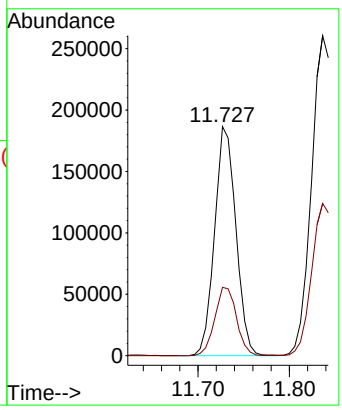





#67
Ethyl Benzene
Concen: 20.500 ug/l
RT: 11.727 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 91 Resp: 30250

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.8 | 25.4 | 38.0 |

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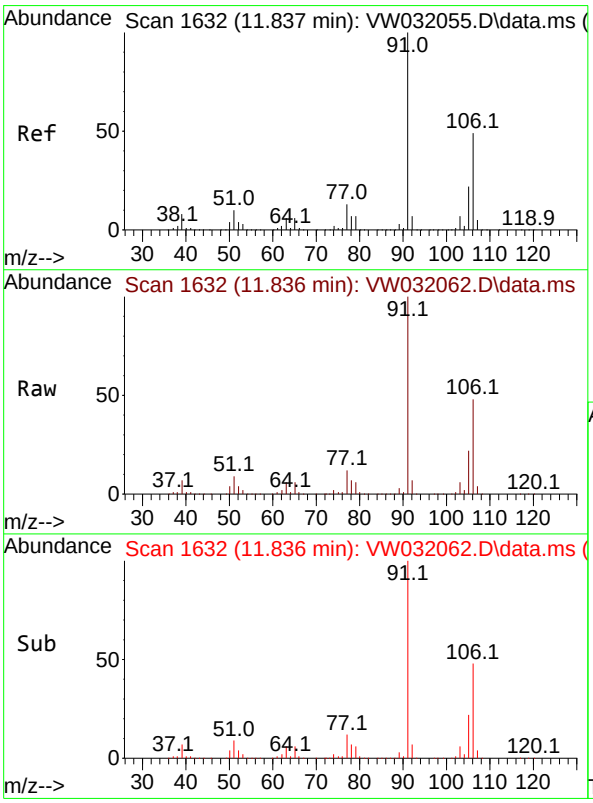
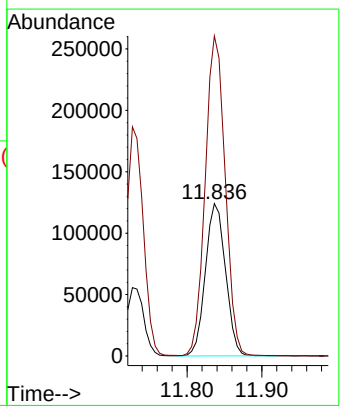
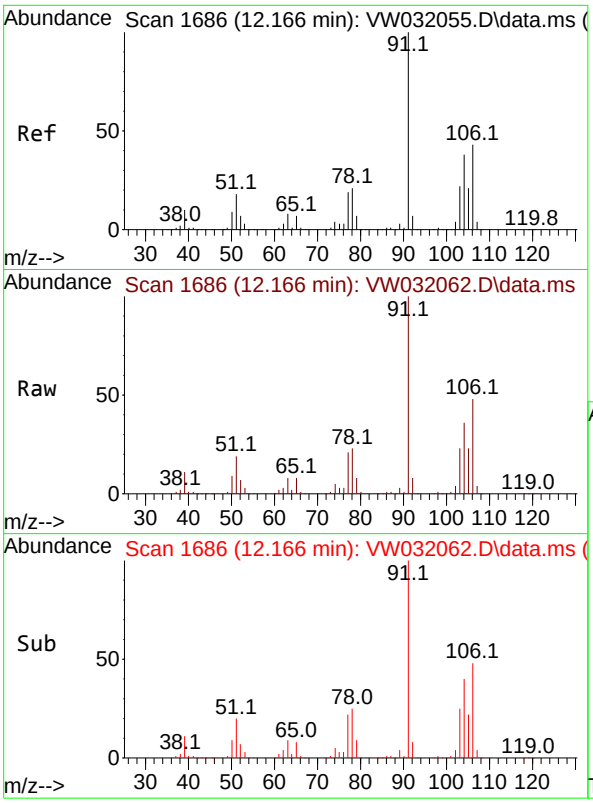



#68
m/p-Xylenes
Concen: 40.725 ug/l
RT: 11.836 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:106 Resp: 231893

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 208.5 | 162.2 | 243.2 |

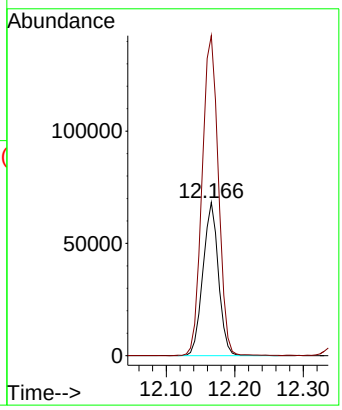





#69
o-Xylene
Concen: 20.434 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:106 Resp: 10754

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 220.1 | 110.8 | 332.3 |

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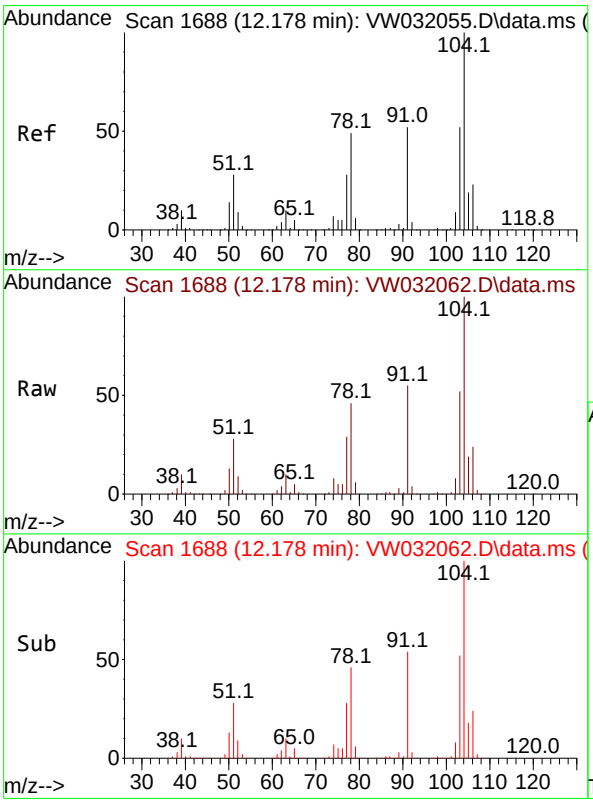
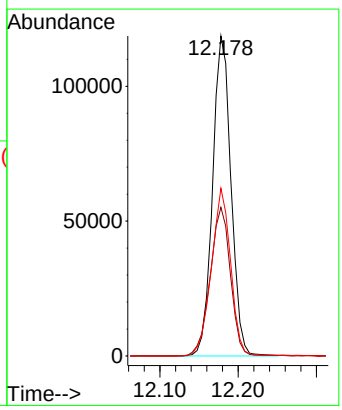
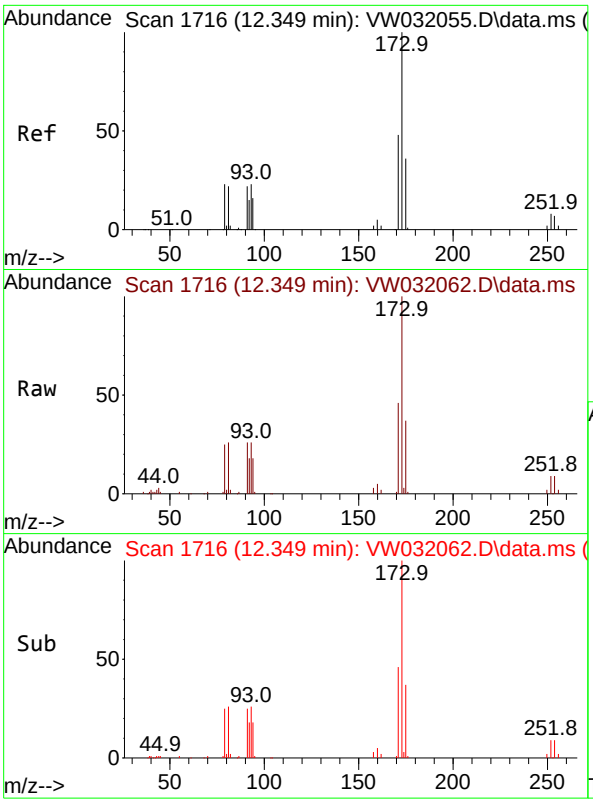



#70
Styrene
Concen: 20.761 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:104 Resp: 194078

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 51.2 | 41.2 | 61.8 |
| 103 | 54.8 | 43.8 | 65.8 |

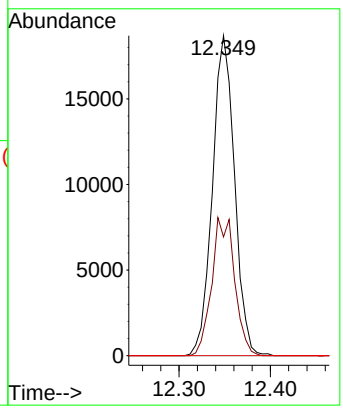





#71
Bromoform
Concen: 20.163 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:173 Resp: 3135

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 44.8 | 22.9 | 68.7 |
| 254 | 0.0 | 0.0 | 0.0 |

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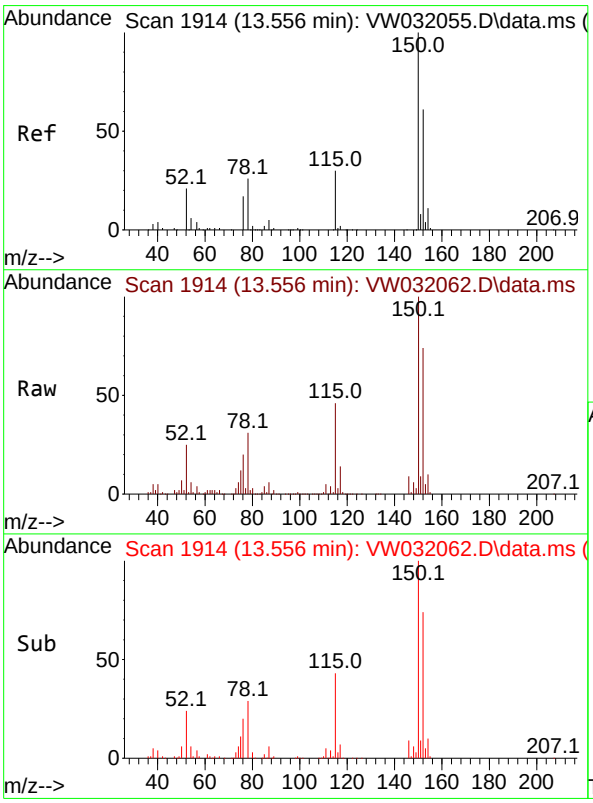
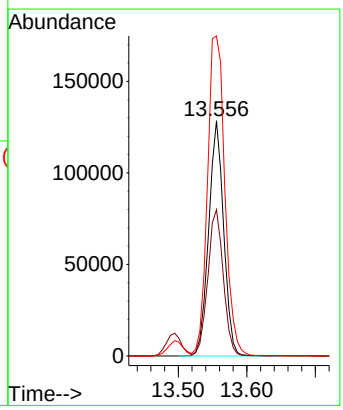
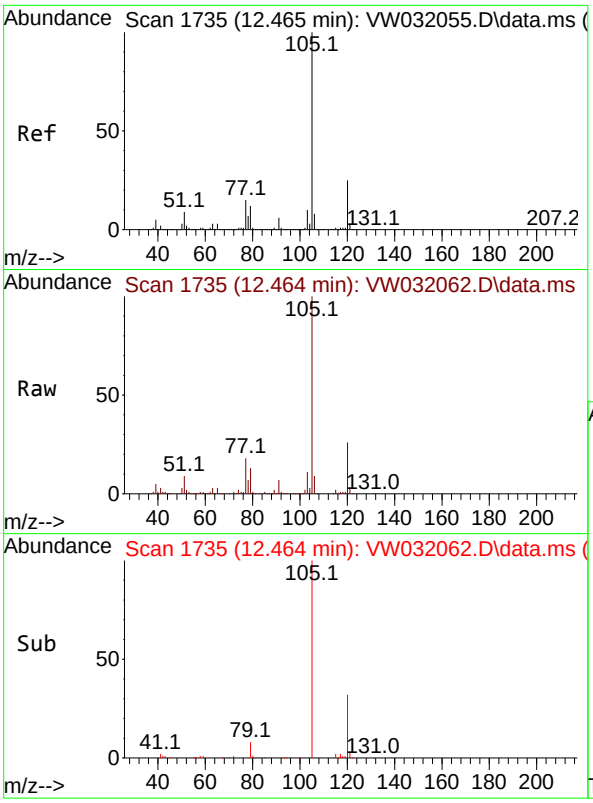



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:152 Resp: 195548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 64.4 | 32.6 | 97.8 |
| 150 | 157.8 | 0.0 | 359.4 |

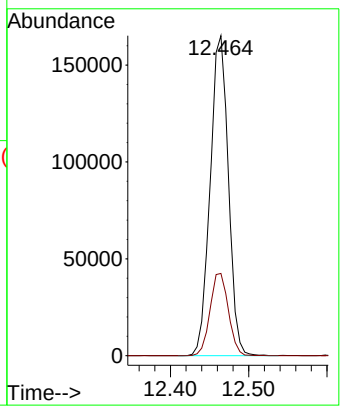





#73
Isopropylbenzene
Concen: 19.494 ug/l
RT: 12.464 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:105 Resp: 26640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.9 | 12.8 | 38.4 |

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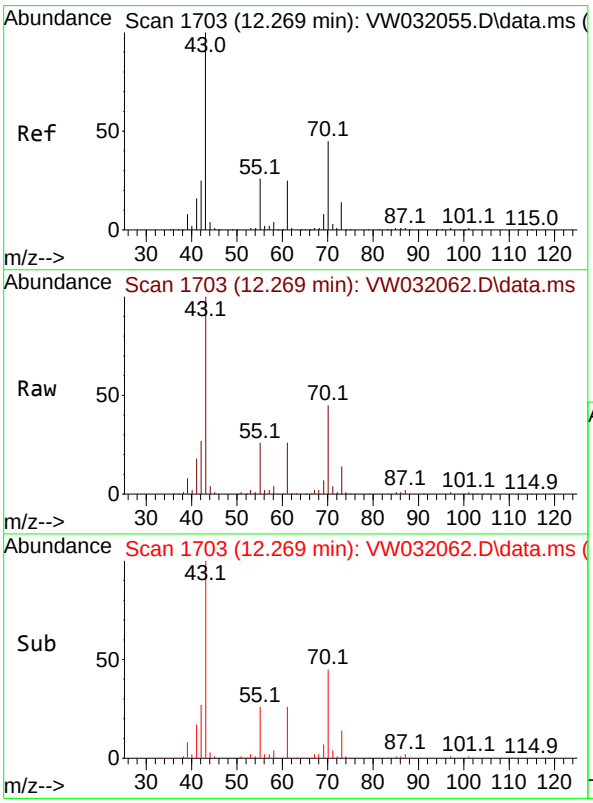
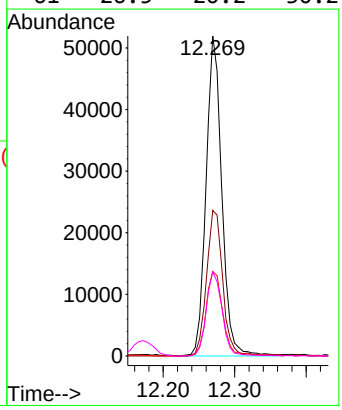
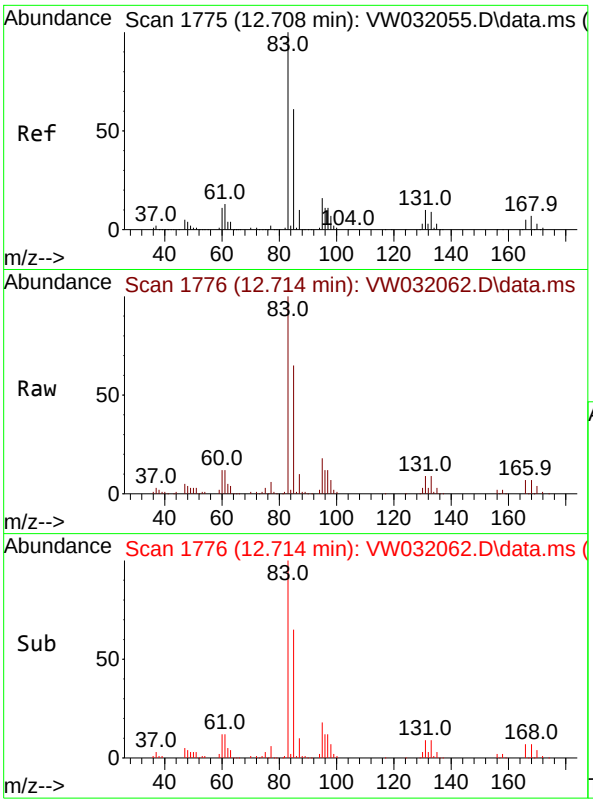



#74
N-amyl acetate
Concen: 20.275 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 43 Resp: 79492

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 46.9 | 37.0 | 55.4 |
| 55 | 28.4 | 21.1 | 31.7 |
| 61 | 26.5 | 20.2 | 30.2 |

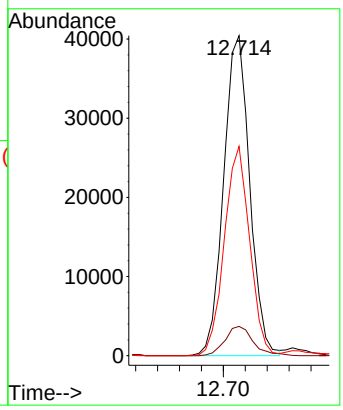





#75
1,1,2,2-Tetrachloroethane
Concen: 20.539 ug/l
RT: 12.714 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 83 Resp: 6664

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.9 | 5.1 | 15.4 |
| 85 | 63.7 | 32.2 | 96.6 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

**Manual Integrations**
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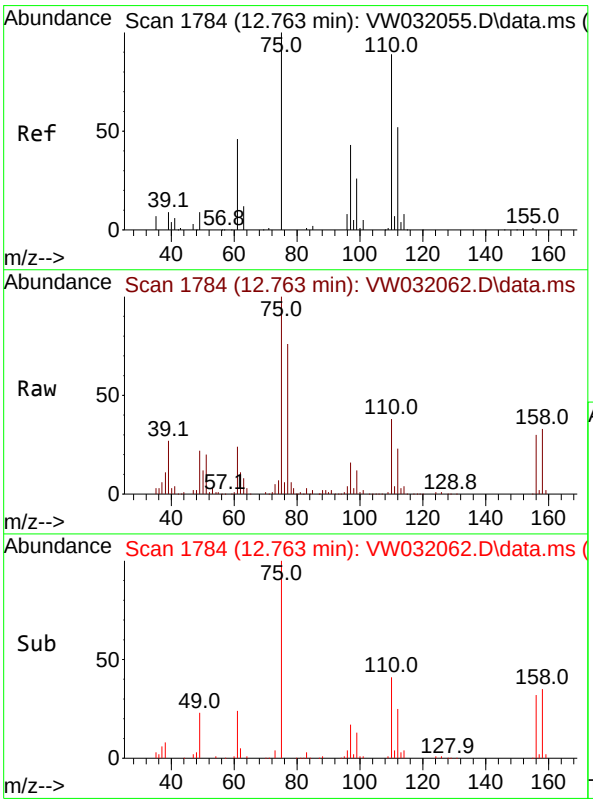
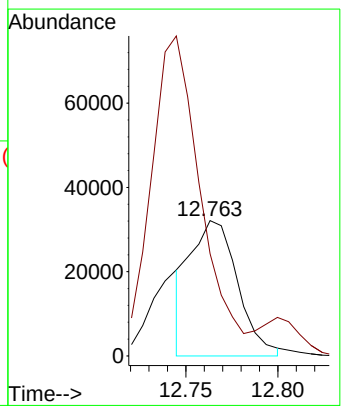
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

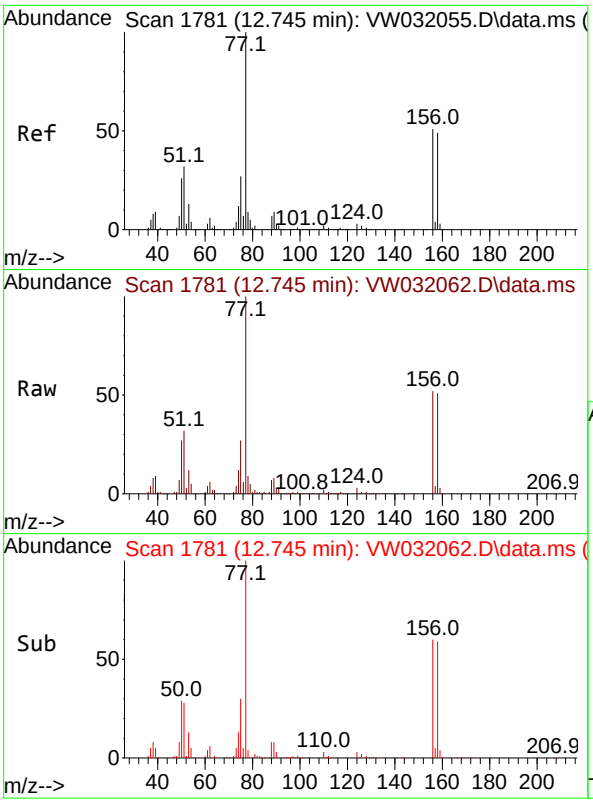



#76
1,2,3-Trichloropropane
Concen: 21.730 ug/l m
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 75 Resp: 57672

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 246.5 | 123.5 | 370.5 |

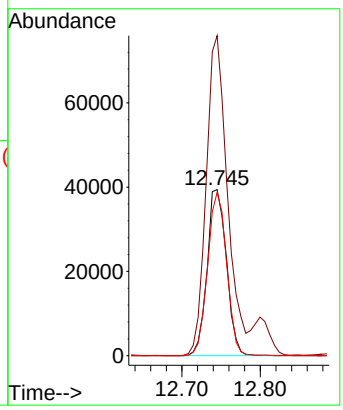





#77
Bromobenzene
Concen: 20.736 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:156 Resp: 6768

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 210.1 | 108.7 | 326.3 |
| 158 | 96.5 | 48.3 | 144.9 |




**Instrument :**
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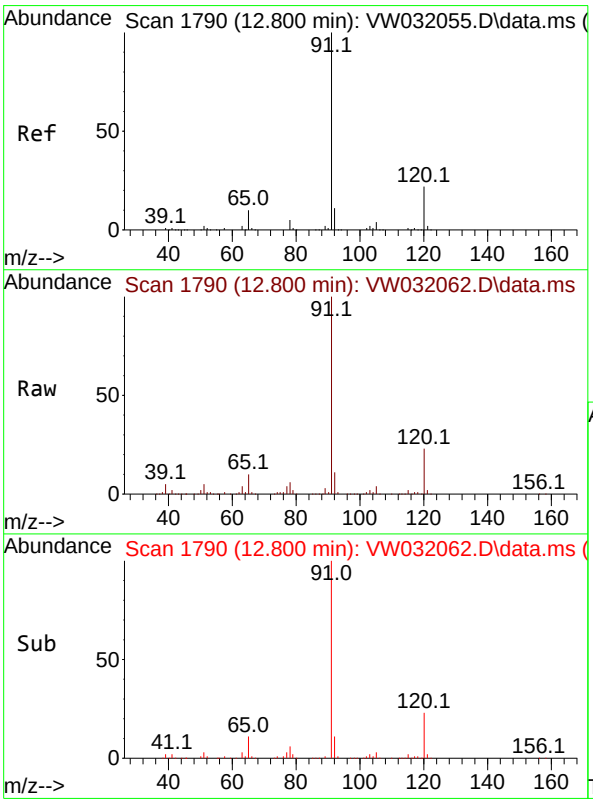
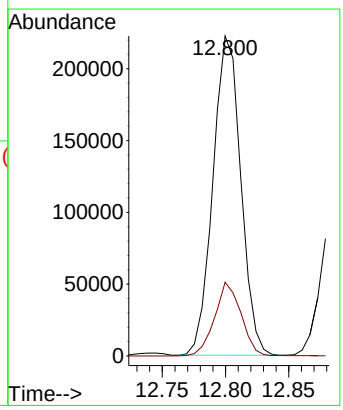
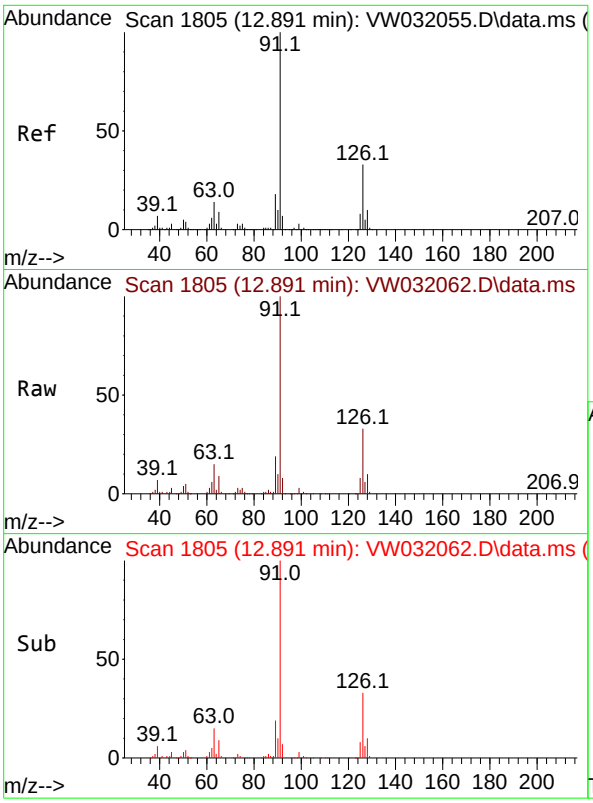



#78
n-propylbenzene
Concen: 20.228 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 91 Resp: 340328

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.0 | 11.1 | 33.3 |

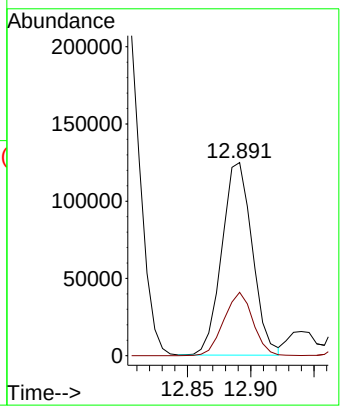





#79
2-Chlorotoluene
Concen: 20.142 ug/l
RT: 12.891 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 91 Resp: 20914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.4 | 15.9 | 47.7 |




**Instrument :**
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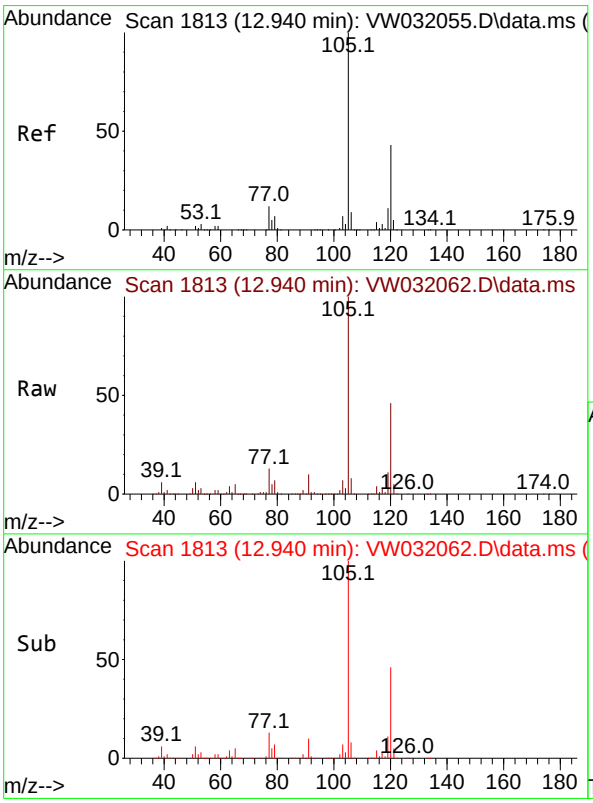
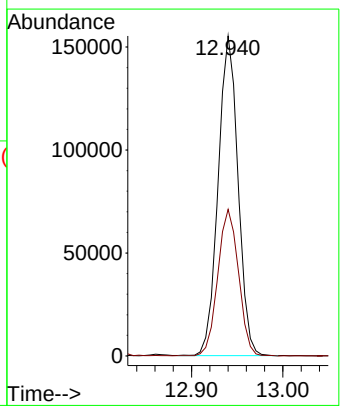
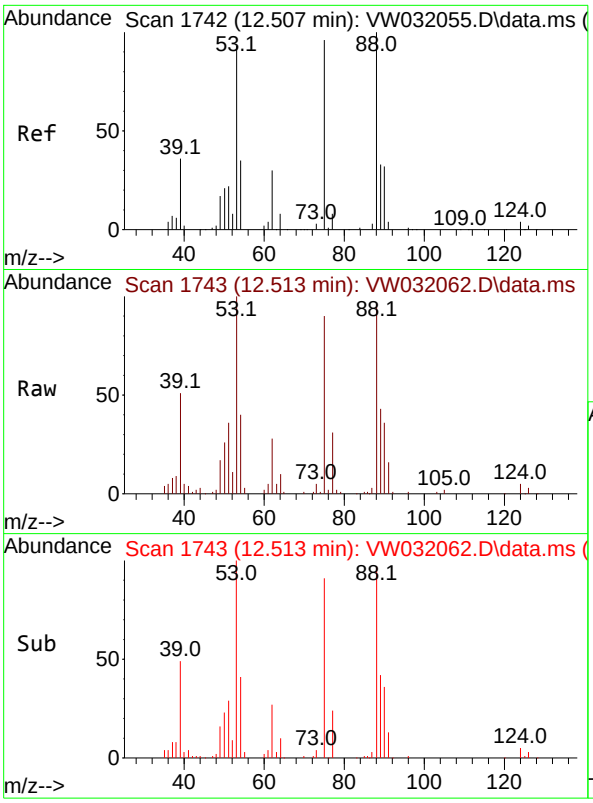



#80
1,3,5-Trimethylbenzene
Concen: 20.250 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:105 Resp: 234936

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.7 | 23.4 | 70.0 |






#81
trans-1,4-Dichloro-2-butene
Concen: 19.247 ug/l
RT: 12.513 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 75 Resp: 1973

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 111.2 | 81.0 | 121.6 |
| 89 | 44.6 | 37.3 | 55.9 |

**Instrument :**
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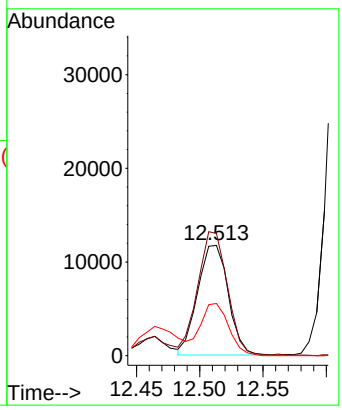
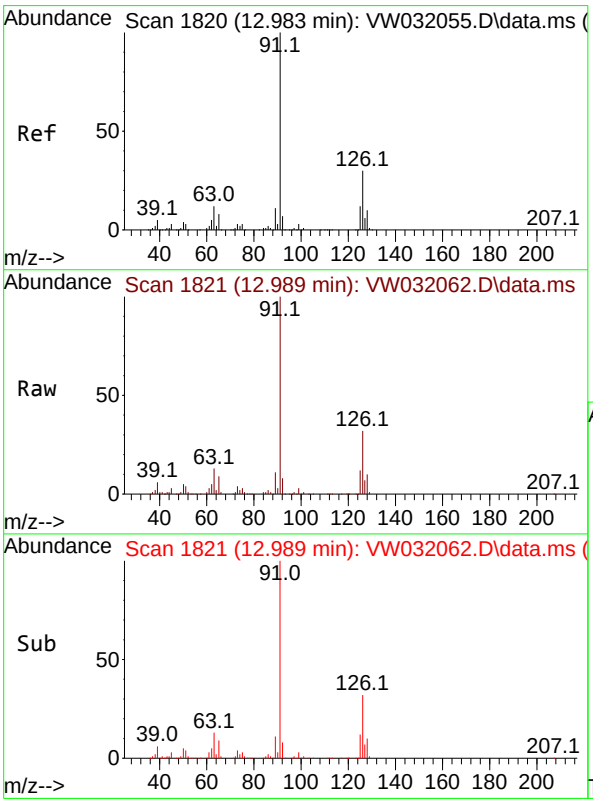
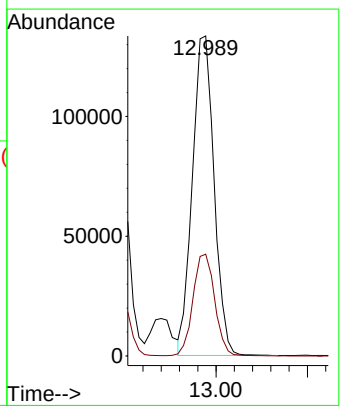


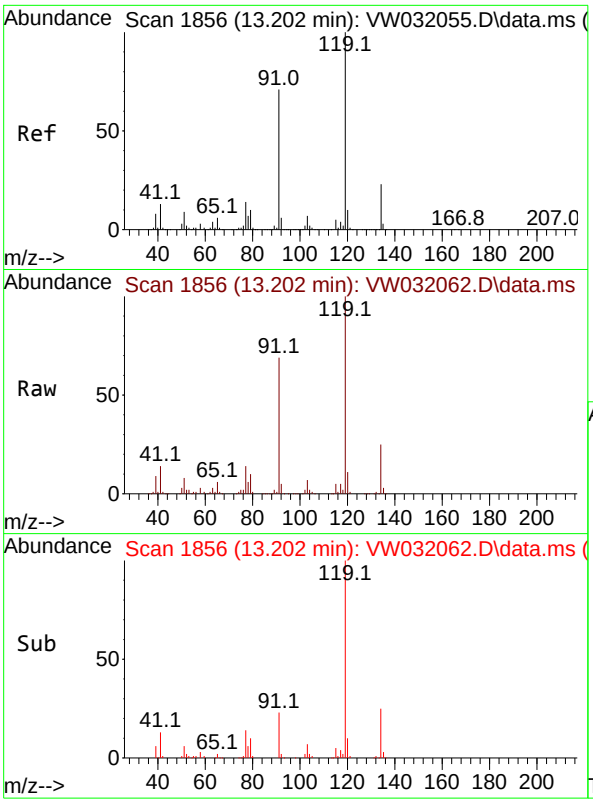




#82
4-Chlorotoluene
Concen: 19.946 ug/l
RT: 12.989 min Scan# 1821
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 91 Resp: 220054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.1 | 15.5 | 46.5 |






#83
tert-Butylbenzene
Concen: 20.213 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:119 Resp: 19462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 70.1 | 35.3 | 105.9 |
| 134 | 24.9 | 12.1 | 36.3 |

**Instrument :**
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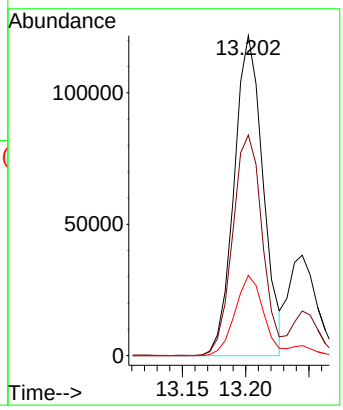
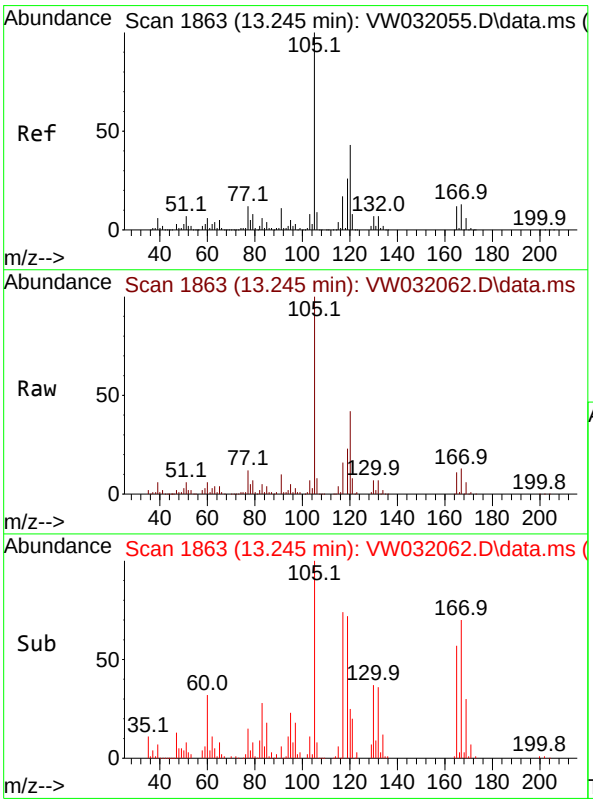
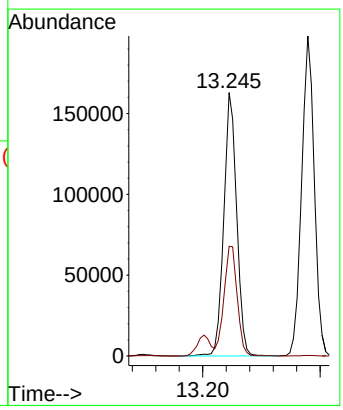


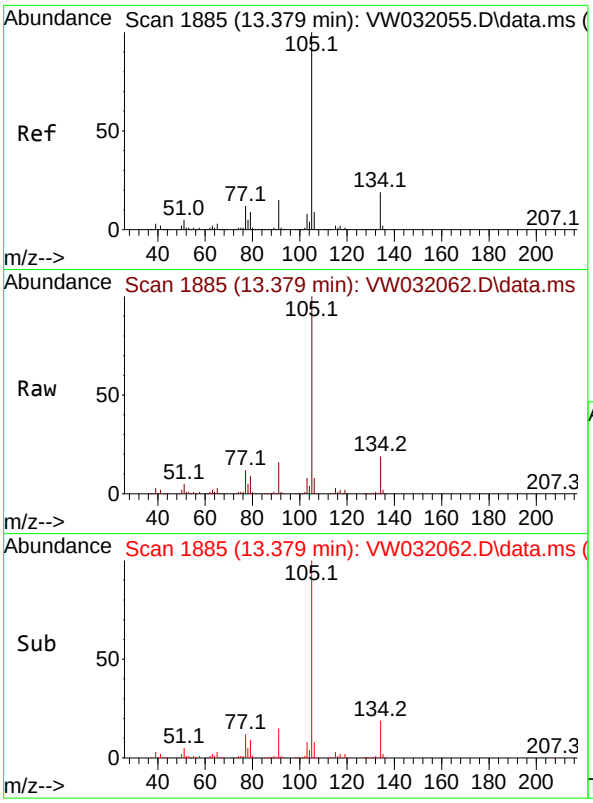




#84
1,2,4-Trimethylbenzene
Concen: 20.972 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:105 Resp: 247687

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 42.7 | 21.6 | 64.8 |

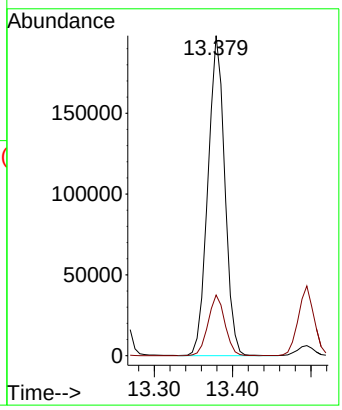





#85
sec-Butylbenzene
Concen: 20.297 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:105 Resp: 29547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 18.9 | 9.9 | 29.7 |

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VW0811SBSD01

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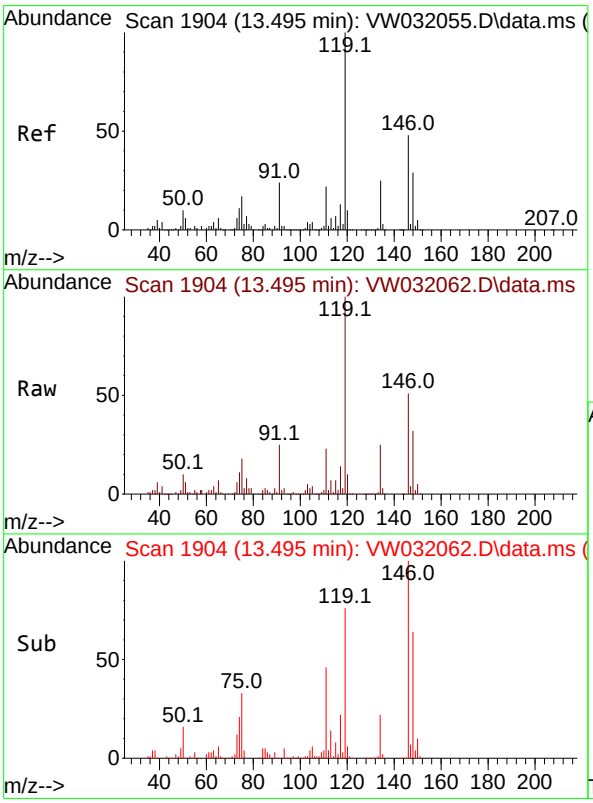
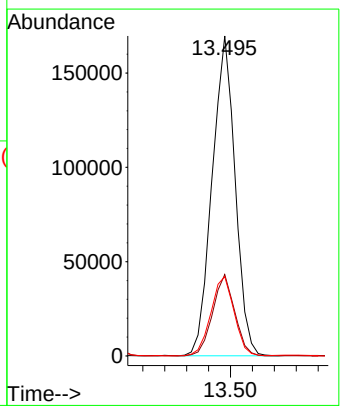
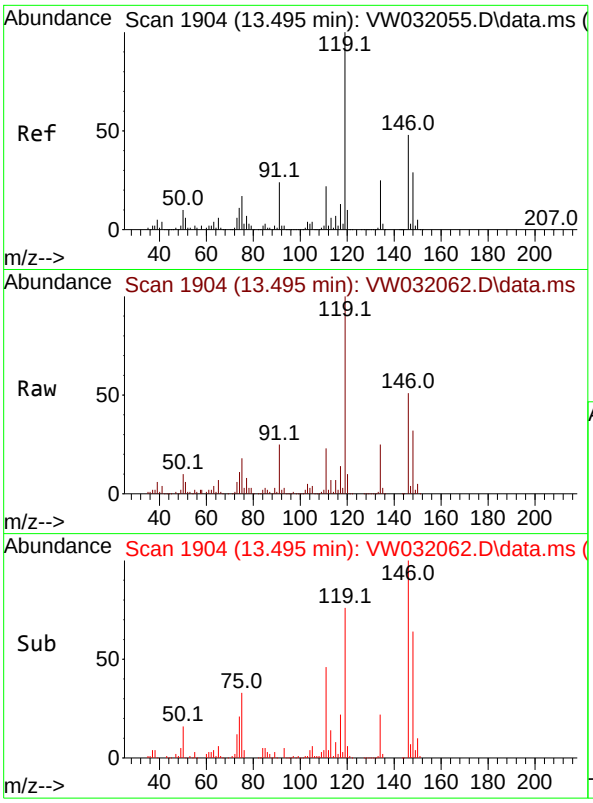



#86
p-Isopropyltoluene
Concen: 20.359 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:119 Resp: 247079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 24.4 | 12.4 | 37.0 |
| 91 | 25.0 | 12.1 | 36.3 |

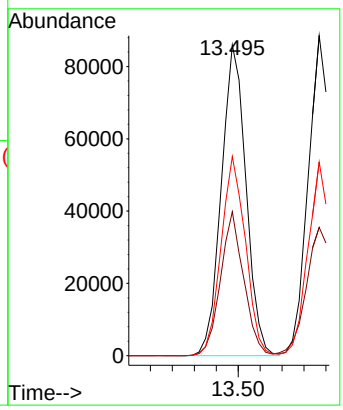





#87
1,3-Dichlorobenzene
Concen: 20.737 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:146 Resp: 13468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.7 | 21.2 | 63.6 |
| 148 | 63.4 | 30.3 | 90.8 |

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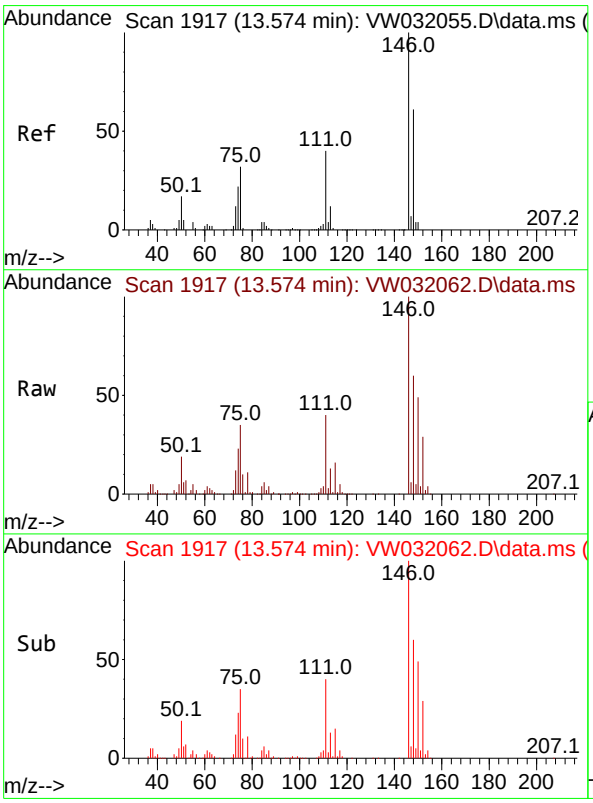
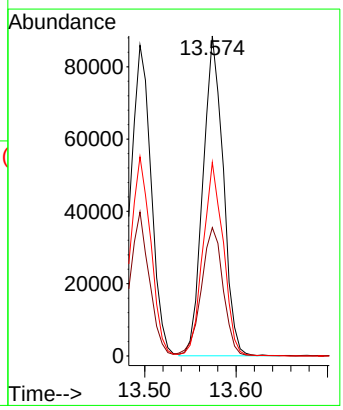
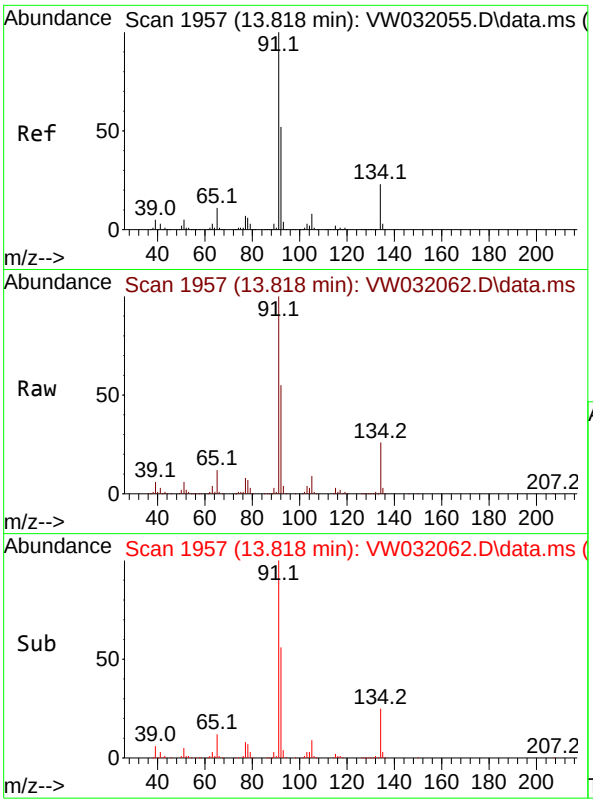



#88
1,4-Dichlorobenzene
Concen: 20.740 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:146 Resp: 136123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.3 | 21.6 | 64.6 |
| 148 | 61.0 | 32.0 | 96.2 |

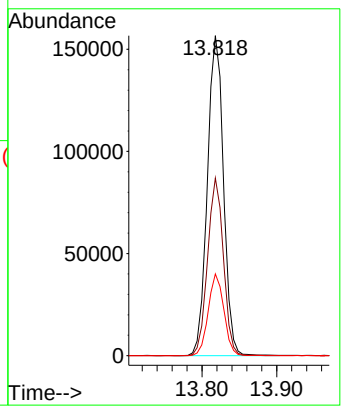





#89
n-Butylbenzene
Concen: 19.961 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 91 Resp: 23534

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.5 | 26.7 | 80.1 |
| 134 | 24.8 | 12.0 | 36.1 |

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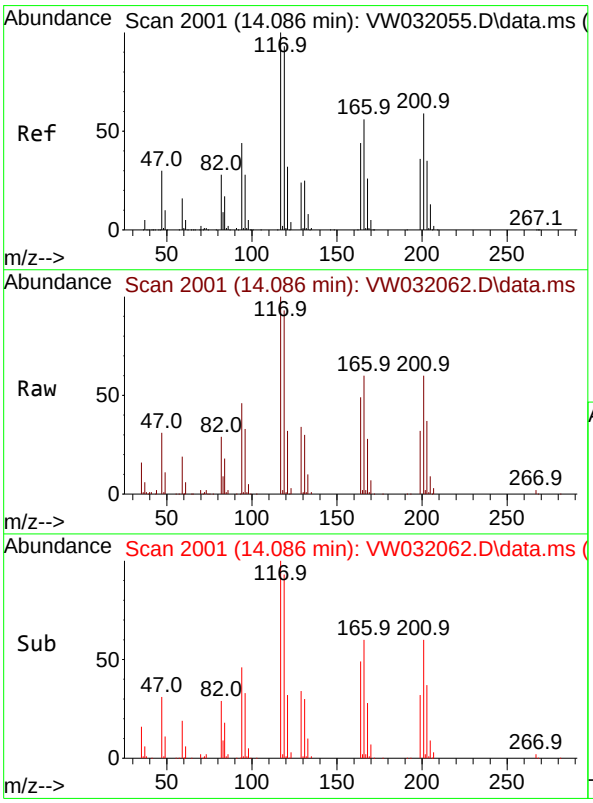
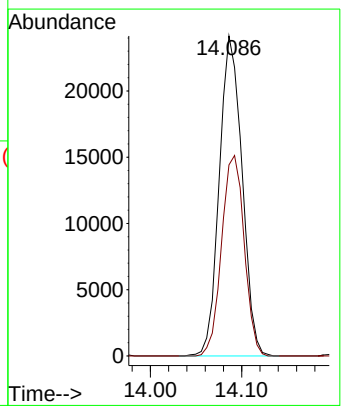
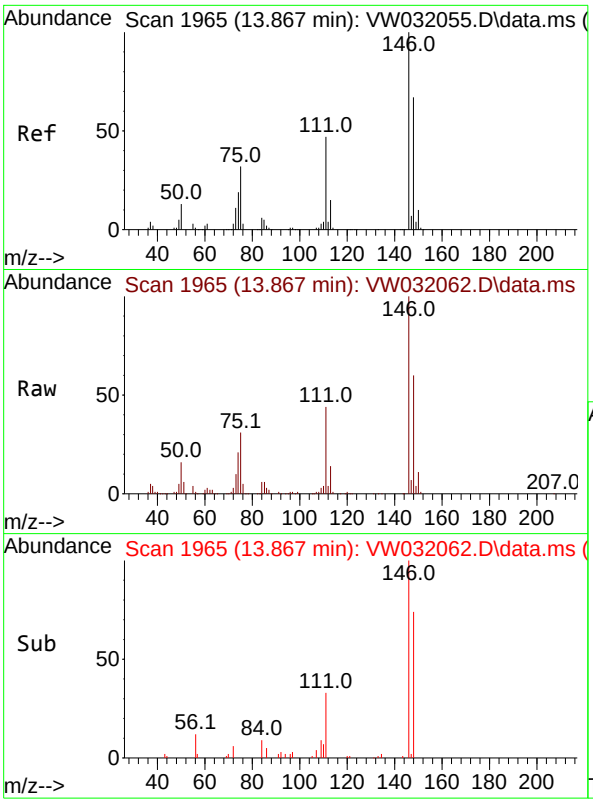



#90
Hexachloroethane
Concen: 18.827 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:117 Resp: 41787

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 62.2 | 30.9 | 92.5 |

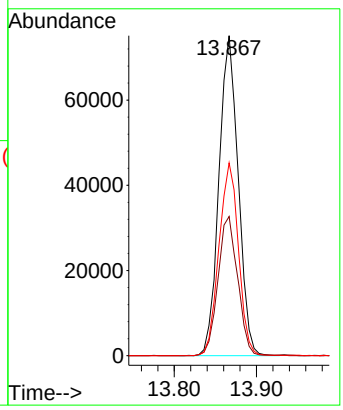





#91
1,2-Dichlorobenzene
Concen: 20.808 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:146 Resp: 12242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.5 | 23.1 | 69.3 |
| 148 | 61.0 | 32.9 | 98.6 |

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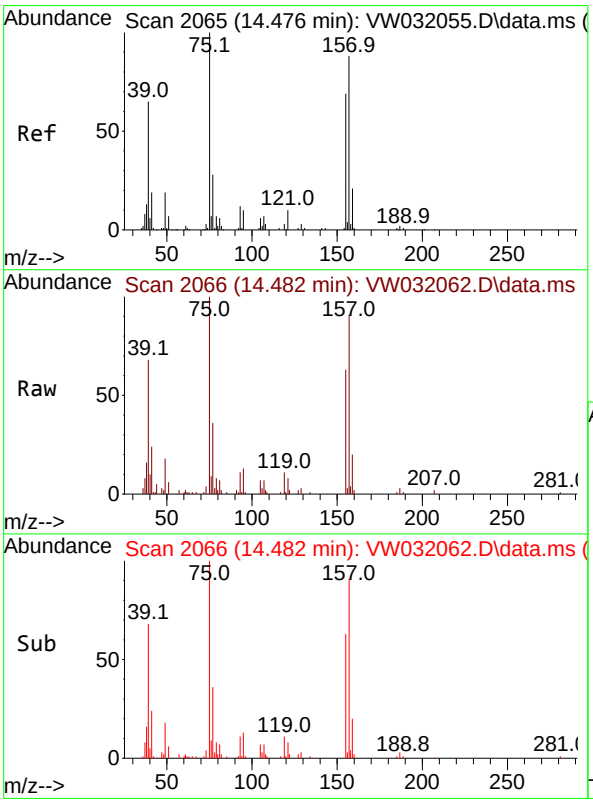
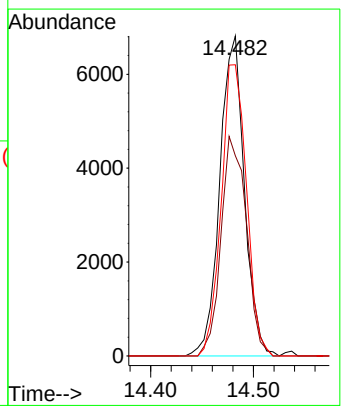
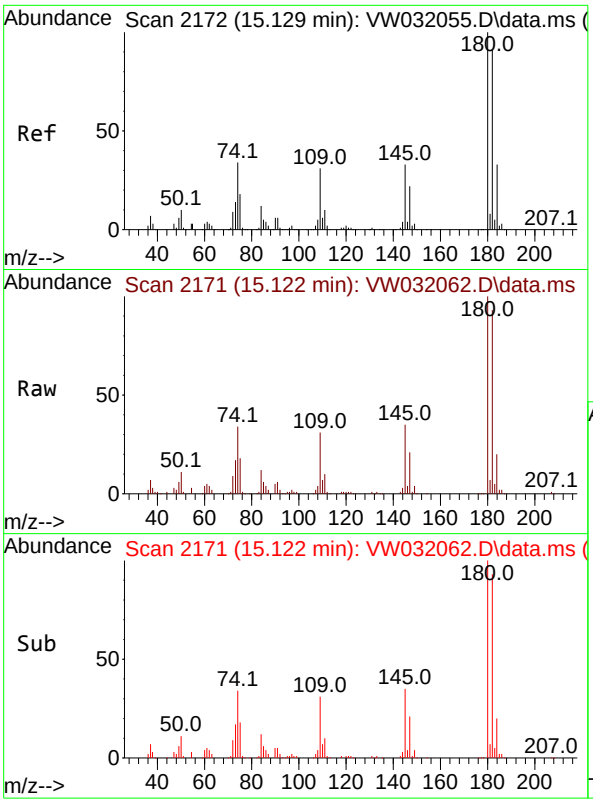



#92
1,2-Dibromo-3-Chloropropane
Concen: 19.597 ug/l
RT: 14.482 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 75 Resp: 11304

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 70.9 | 35.2 | 105.6 |
| 157 | 93.4 | 47.5 | 142.6 |

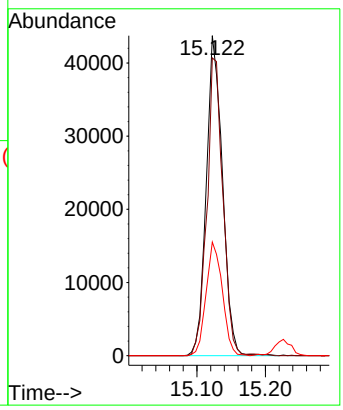





#93
1,2,4-Trichlorobenzene
Concen: 20.416 ug/l
RT: 15.122 min Scan# 21
Delta R.T. -0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:180 Resp: 7185

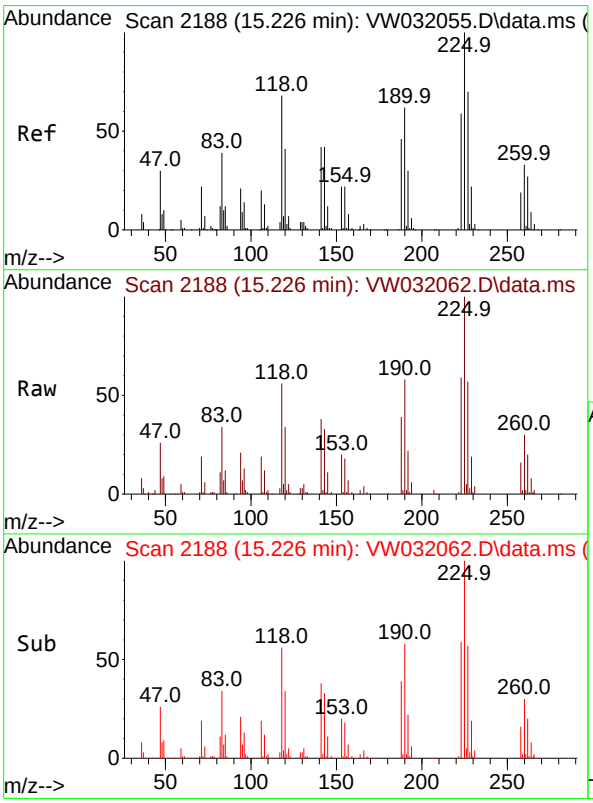
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 92.0 | 49.0 | 147.0 |
| 145 | 35.7 | 17.3 | 51.9 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

**Manual Integrations**
**APPROVED**

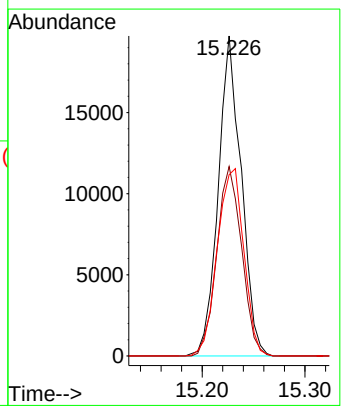
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025

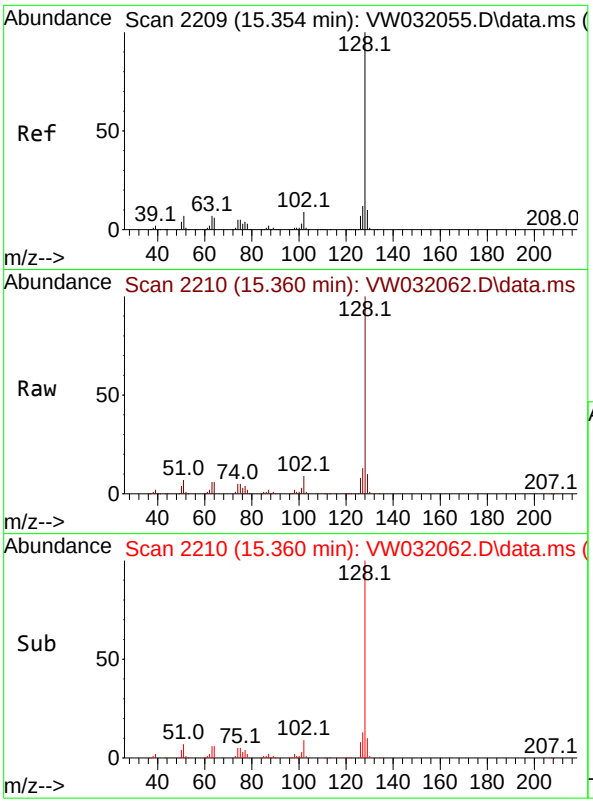



#94
Hexachlorobutadiene
Concen: 19.444 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:225 Resp: 30590

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.9 | 31.8 | 95.3 |
| 227 | 67.7 | 33.5 | 100.5 |

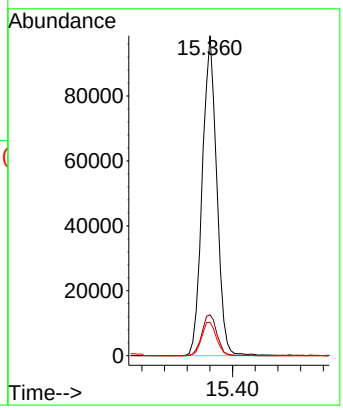





#95
Naphthalene
Concen: 20.223 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:128 Resp: 17440

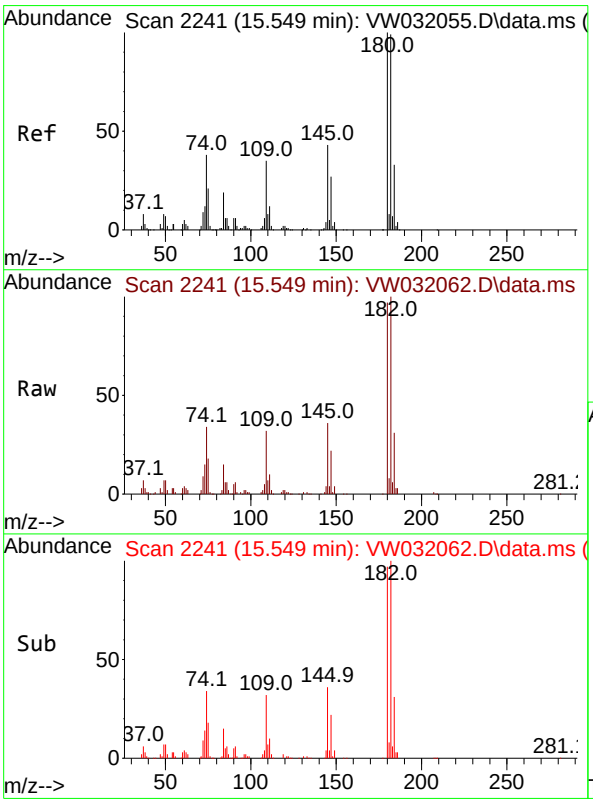
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.4 | 10.5 | 15.7 |
| 129 | 10.7 | 8.2 | 12.4 |




**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

**Manual Integrations**
**APPROVED**

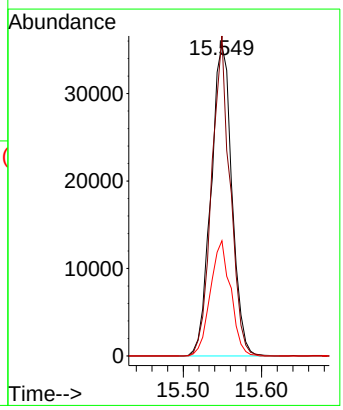
Reviewed By :Mahesh Dadoda 08/12/2025
Supervised By :Semsettin Yesilyurt 08/12/2025




#96
1,2,3-Trichlorobenzene
Concen: 20.606 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:180 Resp: 65985

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 90.5 | 46.0 | 138.0 |
| 145 | 36.0 | 19.2 | 57.6 |



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# Manual Integration Report

| Sequence: | vw081125 | Instrument | MSVOA_w |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICC005 | VW032052.D | 1,2,3-Trichloropropane | MMDadoda | 8/12/2025 1:11:01 PM | SAM | 8/12/2025 1:13:53 PM | Peak Integrated by Software |
| VSTDICC010 | VW032053.D | 1,2,3-Trichloropropane | MMDadoda | 8/12/2025 1:10:59 PM | SAM | 8/12/2025 1:13:55 PM | Peak Integrated by Software |
| VSTDICC020 | VW032054.D | 1,2,3-Trichloropropane | MMDadoda | 8/12/2025 1:10:56 PM | SAM | 8/12/2025 1:13:56 PM | Peak Integrated by Software |
| VSTDICCC050 | VW032055.D | 1,2,3-Trichloropropane | MMDadoda | 8/12/2025 1:10:54 PM | SAM | 8/12/2025 1:13:57 PM | Peak Integrated by Software |
| VSTDICC100 | VW032056.D | 1,2,3-Trichloropropane | MMDadoda | 8/12/2025 1:10:53 PM | SAM | 8/12/2025 1:13:59 PM | Peak Integrated by Software |
| VSTDICC150 | VW032057.D | 1,2,3-Trichloropropane | MMDadoda | 8/12/2025 1:10:51 PM | SAM | 8/12/2025 1:14:01 PM | Peak Integrated by Software |
| VSTDICV050 | VW032059.D | 1,2,3-Trichloropropane | MMDadoda | 8/12/2025 1:10:49 PM | SAM | 8/12/2025 1:14:02 PM | Peak Integrated by Software |
| VW0811SBS01 | VW032061.D | 1,2,3-Trichloropropane | MMDadoda | 8/12/2025 1:10:47 PM | SAM | 8/12/2025 1:14:04 PM | Peak Integrated by Software |
| VW0811SBSD01 | VW032062.D | 1,2,3-Trichloropropane | MMDadoda | 8/12/2025 1:10:46 PM | SAM | 8/12/2025 1:14:05 PM | Peak Integrated by Software |
| VSTDCCC050 | VW032078.D | 1,2,3-Trichloropropane | MMDadoda | 8/12/2025 1:10:44 PM | SAM | 8/12/2025 1:14:07 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | VY081225 | Instrument | MSVOA_y |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICC005 | VY023050.D | 1,2,3-Trichloropropane | MMDadoda | 8/14/2025 7:33:57 PM | SAM | 8/14/2025 7:43:56 PM | Peak Integrated by Software |
| VSTDICC005 | VY023050.D | Methacrylonitrile | MMDadoda | 8/14/2025 7:33:57 PM | SAM | 8/14/2025 7:43:56 PM | Peak Integrated by Software |
| VSTDICC010 | VY023051.D | 1,2,3-Trichloropropane | MMDadoda | 8/14/2025 7:34:06 PM | SAM | 8/14/2025 7:43:57 PM | Peak Integrated by Software |
| VSTDICC020 | VY023052.D | 1,2,3-Trichloropropane | MMDadoda | 8/14/2025 7:34:08 PM | SAM | 8/14/2025 7:43:59 PM | Peak Integrated by Software |
| VSTDICC020 | VY023052.D | Methacrylonitrile | MMDadoda | 8/14/2025 7:34:08 PM | SAM | 8/14/2025 7:43:59 PM | Peak Integrated by Software |
| VSTDICCC050 | VY023053.D | 1,2,3-Trichloropropane | MMDadoda | 8/14/2025 7:34:10 PM | SAM | 8/14/2025 7:44:00 PM | Peak Integrated by Software |
| VSTDICC100 | VY023054.D | 1,2,3-Trichloropropane | MMDadoda | 8/14/2025 7:34:12 PM | SAM | 8/14/2025 7:44:02 PM | Peak Integrated by Software |
| VSTDICC150 | VY023055.D | 1,2,3-Trichloropropane | MMDadoda | 8/14/2025 7:34:15 PM | SAM | 8/14/2025 7:44:04 PM | Peak Integrated by Software |
| VSTDICV050 | VY023057.D | 1,2,3-Trichloropropane | MMDadoda | 8/14/2025 7:34:16 PM | SAM | 8/14/2025 7:44:06 PM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | VY081325 | Instrument | MSVOA_y |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC050 | VY023059.D | 1,2,3-Trichloropropane | MMDadoda | 8/18/2025 8:46:10 AM | SAM | 8/19/2025 4:13:39 AM | Peak Integrated by Software |
| VY0813SBS01 | VY023061.D | 1,2,3-Trichloropropane | MMDadoda | 8/18/2025 8:46:12 AM | SAM | 8/19/2025 4:13:40 AM | Peak Integrated by Software |
| VY0813SBS01 | VY023061.D | Methacrylonitrile | MMDadoda | 8/18/2025 8:46:12 AM | SAM | 8/19/2025 4:13:40 AM | Peak Integrated by Software |
| Q2819-07 | VY023069.D | n-Butylbenzene | MMDadoda | 8/18/2025 8:46:19 AM | SAM | 8/19/2025 4:13:42 AM | Peak Integrated by Software |
| VSTDCCC050 | VY023082.D | 1,2,3-Trichloropropane | MMDadoda | 8/18/2025 8:46:20 AM | SAM | 8/19/2025 4:13:43 AM | Peak Integrated by Software |
| VSTDCCC050 | VY023082.D | Methacrylonitrile | MMDadoda | 8/18/2025 8:46:20 AM | SAM | 8/19/2025 4:13:43 AM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | VY081425 | Instrument | MSVOA_y |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC050 | VY023084.D | 1,2,3-Trichloropropane | SAM | 8/19/2025 4:18:21 AM | MMDadoda | 8/19/2025 4:22:49 AM | Peak Integrated by Software |
| VY0814SBS01 | VY023086.D | 1,2,3-Trichloropropane | SAM | 8/19/2025 4:18:23 AM | MMDadoda | 8/19/2025 4:22:50 AM | Peak Integrated by Software |
| VSTDCCC050 | VY023109.D | 1,2,3-Trichloropropane | SAM | 8/19/2025 4:18:27 AM | MMDadoda | 8/19/2025 4:22:53 AM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | vy081925 | Instrument | MSVOA_y |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC050 | VY023137.D | 1,2,3-Trichloropropane | JOHN | 8/20/2025 9:04:35 AM | MMDadoda | 8/20/2025 9:12:29 AM | Peak Integrated by Software |
| VSTDCCC050 | VY023137.D | Methacrylonitrile | JOHN | 8/20/2025 9:04:35 AM | MMDadoda | 8/20/2025 9:12:29 AM | Peak Integrated by Software |
| VY0819SBS01 | VY023139.D | 1,2,3-Trichloropropane | JOHN | 8/20/2025 9:04:39 AM | MMDadoda | 8/20/2025 9:12:33 AM | Peak Integrated by Software |
| VY0819SBS01 | VY023139.D | Methacrylonitrile | JOHN | 8/20/2025 9:04:39 AM | MMDadoda | 8/20/2025 9:12:33 AM | Peak Integrated by Software |
| VSTDCCC050 | VY023160.D | 1,2,3-Trichloropropane | JOHN | 8/20/2025 9:04:48 AM | MMDadoda | 8/20/2025 9:12:40 AM | Peak Integrated by Software |

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**Instrument ID: MSVOA_W**

## Daily Analysis Runlog For Sequence/QCBatch ID # VW081125

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 8/12/2025 1:11:21 PM | | | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 8/12/2025 1:14:36 PM | | | | |
| SubDirectory | VW081125 | HP Acquire Method | MSVOA_W | HP Processing Method | 82w081125s.m | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP135074 |
| Initial Calibration Stds | VP135075,VP135076,VP135077,VP135078,VP135079,VP135080 |
| CCC | VP135082 |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | VP135081 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr # | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VW032051.D | 11 Aug 2025 07:53 | SY/MD | Ok |
| 2 | VSTDICC005 | VW032052.D | 11 Aug 2025 08:25 | SY/MD | Ok,M |
| 3 | VSTDICC010 | VW032053.D | 11 Aug 2025 09:09 | SY/MD | Ok,M |
| 4 | VSTDICC020 | VW032054.D | 11 Aug 2025 09:47 | SY/MD | Ok,M |
| 5 | VSTDICCC050 | VW032055.D | 11 Aug 2025 10:09 | SY/MD | Ok,M |
| 6 | VSTDICC100 | VW032056.D | 11 Aug 2025 10:46 | SY/MD | Ok,M |
| 7 | VSTDICC150 | VW032057.D | 11 Aug 2025 11:08 | SY/MD | Ok,M |
| 8 | VIBLK | VW032058.D | 11 Aug 2025 11:30 | SY/MD | Ok |
| 9 | VSTDICV050 | VW032059.D | 11 Aug 2025 11:51 | SY/MD | Ok,M |
| 10 | VW0811SBL01 | VW032060.D | 11 Aug 2025 12:18 | SY/MD | Ok |
| 11 | VW0811SBS01 | VW032061.D | 11 Aug 2025 12:48 | SY/MD | Ok,M |
| 12 | VW0811SBSD01 | VW032062.D | 11 Aug 2025 13:10 | SY/MD | Ok,M |
| 13 | Q2807-01 | VW032063.D | 11 Aug 2025 14:00 | SY/MD | Ok |
| 14 | Q2807-02 | VW032064.D | 11 Aug 2025 14:22 | SY/MD | Ok |
| 15 | Q2807-03 | VW032065.D | 11 Aug 2025 14:44 | SY/MD | Ok |
| 16 | Q2808-03 | VW032066.D | 11 Aug 2025 15:06 | SY/MD | Ok |
| 17 | Q2809-01 | VW032067.D | 11 Aug 2025 15:28 | SY/MD | Ok |
| 18 | Q2823-01 | VW032068.D | 11 Aug 2025 15:50 | SY/MD | Ok |
| 19 | Q2818-01 | VW032069.D | 11 Aug 2025 16:12 | SY/MD | Ok |
| 20 | Q2818-02 | VW032070.D | 11 Aug 2025 16:34 | SY/MD | Ok |
| 21 | Q2819-01 | VW032071.D | 11 Aug 2025 16:56 | SY/MD | Ok |

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**Instrument ID: MSVOA_W**

## Daily Analysis Runlog For Sequence/QCBatch ID # VW081125

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 8/12/2025 1:11:21 PM | | | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 8/12/2025 1:14:36 PM | | | | |
| SubDirectory | VW081125 | HP Acquire Method | MSVOA_W | HP Processing Method | 82w081125s.m | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP135074 |
| Initial Calibration Stds | VP135075,VP135076,VP135077,VP135078,VP135079,VP135080 |
| CCC | VP135082 |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | VP135081 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | Q2819-02 | VW032072.D | 11 Aug 2025 17:18 | SY/MD | Ok |
| 23 | Q2819-03 | VW032073.D | 11 Aug 2025 17:41 | SY/MD | Ok |
| 24 | Q2819-04 | VW032074.D | 11 Aug 2025 18:03 | SY/MD | Ok |
| 25 | Q2819-05 | VW032075.D | 11 Aug 2025 18:25 | SY/MD | Ok |
| 26 | Q2819-06 | VW032076.D | 11 Aug 2025 18:47 | SY/MD | Ok |
| 27 | VIBLK | VW032077.D | 11 Aug 2025 19:09 | SY/MD | Ok |
| 28 | VSTDCCC050 | VW032078.D | 11 Aug 2025 19:31 | SY/MD | Ok,M |

M : Manual Integration

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**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY081225

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 8/14/2025 7:34:22 PM | | | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 8/14/2025 7:44:13 PM | | | | |
| SubDirectory | VY081225 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y081225s.m | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP135083 |
| Initial Calibration Stds | VP135084,VP135085,VP135086,VP135087,VP135088,VP135089 |
| CCC | |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | VP135090 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr # | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VY023048.D | 12 Aug 2025 08:26 | SY/MD | Ok |
| 2 | VSTDICC005 | VY023049.D | 12 Aug 2025 14:32 | SY/MD | Not Ok |
| 3 | VSTDICC005 | VY023050.D | 12 Aug 2025 14:54 | SY/MD | Ok,M |
| 4 | VSTDICC010 | VY023051.D | 12 Aug 2025 15:17 | SY/MD | Ok,M |
| 5 | VSTDICC020 | VY023052.D | 12 Aug 2025 15:40 | SY/MD | Ok,M |
| 6 | VSTDICCC050 | VY023053.D | 12 Aug 2025 16:02 | SY/MD | Ok,M |
| 7 | VSTDICC100 | VY023054.D | 12 Aug 2025 16:25 | SY/MD | Ok,M |
| 8 | VSTDICC150 | VY023055.D | 12 Aug 2025 16:47 | SY/MD | Ok,M |
| 9 | VIBLK | VY023056.D | 12 Aug 2025 17:31 | SY/MD | Ok |
| 10 | VSTDICV050 | VY023057.D | 12 Aug 2025 17:53 | SY/MD | Ok,M |

M : Manual Integration

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**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY081325

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 8/18/2025 8:46:30 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 8/19/2025 4:18:05 AM | | |
| SubDirectory | VY081325 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y081225s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP135111 |
| Initial Calibration Stds | |
| CCC | VP135112,VP135113 |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr # | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VY023058.D | 13 Aug 2025 08:21 | SY/MD | Ok |
| 2 | VSTDCCC050 | VY023059.D | 13 Aug 2025 09:37 | SY/MD | Ok,M |
| 3 | VY0813SBL01 | VY023060.D | 13 Aug 2025 10:39 | SY/MD | Ok |
| 4 | VY0813SBS01 | VY023061.D | 13 Aug 2025 11:09 | SY/MD | Ok,M |
| 5 | VY0813SBSD01 | VY023062.D | 13 Aug 2025 11:32 | SY/MD | Ok,M |
| 6 | Q2831-02 | VY023063.D | 13 Aug 2025 12:34 | SY/MD | Ok |
| 7 | Q2830-01 | VY023064.D | 13 Aug 2025 12:58 | SY/MD | Ok |
| 8 | Q2830-03 | VY023065.D | 13 Aug 2025 13:21 | SY/MD | Ok |
| 9 | Q2830-05 | VY023066.D | 13 Aug 2025 13:45 | SY/MD | ReRun |
| 10 | Q2830-07 | VY023067.D | 13 Aug 2025 14:08 | SY/MD | Ok |
| 11 | Q2827-03 | VY023068.D | 13 Aug 2025 14:32 | SY/MD | Ok |
| 12 | Q2819-07 | VY023069.D | 13 Aug 2025 14:55 | SY/MD | Ok,M |
| 13 | Q2819-08 | VY023070.D | 13 Aug 2025 15:19 | SY/MD | Ok |
| 14 | Q2819-09 | VY023071.D | 13 Aug 2025 15:43 | SY/MD | Ok |
| 15 | Q2819-10 | VY023072.D | 13 Aug 2025 16:06 | SY/MD | ReRun |
| 16 | Q2819-11 | VY023073.D | 13 Aug 2025 16:30 | SY/MD | ReRun |
| 17 | Q2819-12 | VY023074.D | 13 Aug 2025 16:53 | SY/MD | Ok |
| 18 | Q2819-13 | VY023075.D | 13 Aug 2025 17:17 | SY/MD | Ok |
| 19 | Q2819-14 | VY023076.D | 13 Aug 2025 17:40 | SY/MD | Ok |
| 20 | Q2819-15 | VY023077.D | 13 Aug 2025 18:04 | SY/MD | ReRun |
| 21 | Q2819-16 | VY023078.D | 13 Aug 2025 18:27 | SY/MD | ReRun |

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**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY081325

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 8/18/2025 8:46:30 AM | | | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 8/19/2025 4:18:05 AM | | | | |
| SubDirectory | VY081325 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y081225s.m | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP135111 |
| Initial Calibration Stds | |
| CCC | VP135112,VP135113 |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | Q2819-17 | VY023079.D | 13 Aug 2025 18:51 | SY/MD | Ok |
| 23 | Q2819-18 | VY023080.D | 13 Aug 2025 19:14 | SY/MD | Ok |
| 24 | Q2819-19 | VY023081.D | 13 Aug 2025 19:38 | SY/MD | Ok |
| 25 | VSTDCCC050 | VY023082.D | 13 Aug 2025 20:00 | SY/MD | Ok,M |

M : Manual Integration

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**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY081425

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 8/19/2025 4:23:08 AM | | | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 8/19/2025 6:52:38 AM | | | | |
| SubDirectory | VY081425 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y081225s.m | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP135134 |
| Initial Calibration Stds | |
| CCC | VP135135,VP135136 |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr # | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VY023083.D | 14 Aug 2025 09:48 | SY/MD | Ok |
| 2 | VSTDCCC050 | VY023084.D | 14 Aug 2025 10:17 | SY/MD | Ok,M |
| 3 | VY0814SBL01 | VY023085.D | 14 Aug 2025 10:50 | SY/MD | Ok |
| 4 | VY0814SBS01 | VY023086.D | 14 Aug 2025 11:22 | SY/MD | Ok,M |
| 5 | VY0814SBSD01 | VY023087.D | 14 Aug 2025 11:45 | SY/MD | Ok,M |
| 6 | Q2830-05 | VY023088.D | 14 Aug 2025 12:26 | SY/MD | Ok |
| 7 | Q2819-10RE | VY023089.D | 14 Aug 2025 12:50 | SY/MD | Confirms |
| 8 | Q2819-11RE | VY023090.D | 14 Aug 2025 13:13 | SY/MD | Confirms |
| 9 | Q2819-15 | VY023091.D | 14 Aug 2025 13:37 | SY/MD | Ok |
| 10 | Q2819-16 | VY023092.D | 14 Aug 2025 14:00 | SY/MD | Ok |
| 11 | Q2819-20 | VY023093.D | 14 Aug 2025 14:24 | SY/MD | ReRun |
| 12 | Q2838-03 | VY023094.D | 14 Aug 2025 14:47 | SY/MD | Ok |
| 13 | Q2838-07 | VY023095.D | 14 Aug 2025 15:11 | SY/MD | Ok |
| 14 | Q2840-01 | VY023096.D | 14 Aug 2025 15:34 | SY/MD | Ok |
| 15 | Q2858-01 | VY023097.D | 14 Aug 2025 15:57 | SY/MD | Ok |
| 16 | Q2857-03 | VY023098.D | 14 Aug 2025 16:21 | SY/MD | Ok |
| 17 | Q2826-01 | VY023099.D | 14 Aug 2025 16:44 | SY/MD | Ok |
| 18 | Q2873-01 | VY023100.D | 14 Aug 2025 17:08 | SY/MD | Ok |
| 19 | Q2873-04 | VY023101.D | 14 Aug 2025 17:31 | SY/MD | Ok |
| 20 | Q2871-01 | VY023102.D | 14 Aug 2025 17:55 | SY/MD | Ok |
| 21 | Q2871-04 | VY023103.D | 14 Aug 2025 18:18 | SY/MD | ReRun |

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**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY081425

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 8/19/2025 4:23:08 AM | | | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 8/19/2025 6:52:38 AM | | | | |
| SubDirectory | VY081425 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y081225s.m | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP135134 |
| Initial Calibration Stds | |
| CCC | VP135135,VP135136 |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | Q2871-07 | VY023104.D | 14 Aug 2025 18:42 | SY/MD | Ok |
| 23 | Q2872-01 | VY023105.D | 14 Aug 2025 19:05 | SY/MD | ReRun |
| 24 | Q2870-01 | VY023106.D | 14 Aug 2025 19:29 | SY/MD | Ok |
| 25 | Q2870-04 | VY023107.D | 14 Aug 2025 19:52 | SY/MD | Ok |
| 26 | VIBLK | VY023108.D | 14 Aug 2025 20:15 | SY/MD | Ok |
| 27 | VSTDCCC050 | VY023109.D | 14 Aug 2025 20:38 | SY/MD | Ok,M |

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**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY081925

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 8/20/2025 9:05:17 AM | | | | |
| Supervise By | Mahesh Dadoda | Supervise On | 8/20/2025 9:12:04 AM | | | | |
| SubDirectory | VY081925 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y081225s.m | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP135166 |
| Initial Calibration Stds | |
| CCC | VP135167,VP135168 |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr # | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VY023136.D | 19 Aug 2025 07:45 | SY/MD | Ok |
| 2 | VSTDCCC050 | VY023137.D | 19 Aug 2025 09:11 | SY/MD | Ok,M |
| 3 | VY0819SBL01 | VY023138.D | 19 Aug 2025 09:49 | SY/MD | Ok |
| 4 | VY0819SBS01 | VY023139.D | 19 Aug 2025 10:19 | SY/MD | Ok,M |
| 5 | VY0819SBSD01 | VY023140.D | 19 Aug 2025 10:42 | SY/MD | Ok,M |
| 6 | Q2820-01 | VY023141.D | 19 Aug 2025 11:20 | SY/MD | Ok |
| 7 | Q2820-15 | VY023142.D | 19 Aug 2025 11:44 | SY/MD | Ok |
| 8 | Q2820-23 | VY023143.D | 19 Aug 2025 12:07 | SY/MD | Ok |
| 9 | Q2819-20 | VY023144.D | 19 Aug 2025 12:31 | SY/MD | Ok |
| 10 | Q2870-01 | VY023145.D | 19 Aug 2025 12:54 | SY/MD | Not Ok |
| 11 | Q2871-04RE | VY023146.D | 19 Aug 2025 13:18 | SY/MD | Confirms |
| 12 | Q2872-01RE | VY023147.D | 19 Aug 2025 13:41 | SY/MD | Confirms |
| 13 | Q2879-01 | VY023148.D | 19 Aug 2025 14:04 | SY/MD | Ok |
| 14 | Q2879-03 | VY023149.D | 19 Aug 2025 14:28 | SY/MD | ReRun |
| 15 | Q2879-05 | VY023150.D | 19 Aug 2025 14:51 | SY/MD | ReRun |
| 16 | Q2879-07 | VY023151.D | 19 Aug 2025 15:15 | SY/MD | Ok |
| 17 | Q2879-09 | VY023152.D | 19 Aug 2025 15:38 | SY/MD | ReRun |
| 18 | Q2879-11 | VY023153.D | 19 Aug 2025 16:02 | SY/MD | ReRun |
| 19 | Q2879-13 | VY023154.D | 19 Aug 2025 16:25 | SY/MD | ReRun |
| 20 | Q2879-15 | VY023155.D | 19 Aug 2025 16:49 | SY/MD | ReRun |
| 21 | Q2879-17 | VY023156.D | 19 Aug 2025 17:12 | SY/MD | ReRun |

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**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY081925

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 8/20/2025 9:05:17 AM | | | | |
| Supervise By | Mahesh Dadoda | Supervise On | 8/20/2025 9:12:04 AM | | | | |
| SubDirectory | VY081925 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y081225s.m | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP135166 |
| Initial Calibration Stds | |
| CCC | VP135167,VP135168 |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | Q2897-01 | VY023157.D | 19 Aug 2025 17:36 | SY/MD | ReRun |
| 23 | Q2889-01 | VY023158.D | 19 Aug 2025 17:59 | SY/MD | Ok |
| 24 | Q2888-01 | VY023159.D | 19 Aug 2025 18:22 | SY/MD | Ok |
| 25 | VSTDCCC050 | VY023160.D | 19 Aug 2025 19:08 | SY/MD | Ok,M |

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**Instrument ID:** MSVOA_W

## Daily Analysis Runlog For Sequence/QCBatch ID # VW081125

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 8/12/2025 1:11:21 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 8/12/2025 1:14:36 PM | | |
| SubDirectory | VW081125 | HP Acquire Method | MSVOA_W | HP Processing Method | 82w081125s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP135074 |
| Initial Calibration Stds | VP135075,VP135076,VP135077,VP135078,VP135079,VP135080 |
| CCC | VP135082 |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | VP135081 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr # | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VW032051.D | 11 Aug 2025 07:53 | | SY/MD | Ok |
| 2 | VSTDICC005 | VSTDICC005 | VW032052.D | 11 Aug 2025 08:25 | | SY/MD | Ok,M |
| 3 | VSTDICC010 | VSTDICC010 | VW032053.D | 11 Aug 2025 09:09 | | SY/MD | Ok,M |
| 4 | VSTDICC020 | VSTDICC020 | VW032054.D | 11 Aug 2025 09:47 | | SY/MD | Ok,M |
| 5 | VSTDICCC050 | VSTDICCC050 | VW032055.D | 11 Aug 2025 10:09 | | SY/MD | Ok,M |
| 6 | VSTDICC100 | VSTDICC100 | VW032056.D | 11 Aug 2025 10:46 | | SY/MD | Ok,M |
| 7 | VSTDICC150 | VSTDICC150 | VW032057.D | 11 Aug 2025 11:08 | | SY/MD | Ok,M |
| 8 | VIBLK | VIBLK | VW032058.D | 11 Aug 2025 11:30 | | SY/MD | Ok |
| 9 | VSTDICV050 | ICVVW081125 | VW032059.D | 11 Aug 2025 11:51 | | SY/MD | Ok,M |
| 10 | VW0811SBL01 | VW0811SBL01 | VW032060.D | 11 Aug 2025 12:18 | | SY/MD | Ok |
| 11 | VW0811SBS01 | VW0811SBS01 | VW032061.D | 11 Aug 2025 12:48 | | SY/MD | Ok,M |
| 12 | VW0811SBSD01 | VW0811SBSD01 | VW032062.D | 11 Aug 2025 13:10 | | SY/MD | Ok,M |
| 13 | Q2807-01 | COMP-4 | VW032063.D | 11 Aug 2025 14:00 | vial-A | SY/MD | Ok |
| 14 | Q2807-02 | COMP-5 | VW032064.D | 11 Aug 2025 14:22 | vial-A | SY/MD | Ok |
| 15 | Q2807-03 | COMP-6 | VW032065.D | 11 Aug 2025 14:44 | vial-A | SY/MD | Ok |
| 16 | Q2808-03 | TP-7-VOC | VW032066.D | 11 Aug 2025 15:06 | vial-A | SY/MD | Ok |
| 17 | Q2809-01 | OR-03-08082025 | VW032067.D | 11 Aug 2025 15:28 | vial-A | SY/MD | Ok |
| 18 | Q2823-01 | SU-04-081125 | VW032068.D | 11 Aug 2025 15:50 | vial-A | SY/MD | Ok |

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**Instrument ID:** MSVOA_W

## Daily Analysis Runlog For Sequence/QCBatch ID # VW081125

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 8/12/2025 1:11:21 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 8/12/2025 1:14:36 PM | | |
| SubDirectory | VW081125 | HP Acquire Method | MSVOA_W | HP Processing Method | 82w081125s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP135074 |
| Initial Calibration Stds | VP135075,VP135076,VP135077,VP135078,VP135079,VP135080 |
| CCC | VP135082 |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | VP135081 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q2818-01 | B-2-5-1 | VW032069.D | 11 Aug 2025 16:12 | vial-A | SY/MD | Ok |
| 20 | Q2818-02 | B-3-5-2 | VW032070.D | 11 Aug 2025 16:34 | vial-A | SY/MD | Ok |
| 21 | Q2819-01 | 22BP-N | VW032071.D | 11 Aug 2025 16:56 | vial-A | SY/MD | Ok |
| 22 | Q2819-02 | 22BP-E | VW032072.D | 11 Aug 2025 17:18 | vial-A | SY/MD | Ok |
| 23 | Q2819-03 | 22BP-W | VW032073.D | 11 Aug 2025 17:41 | vial-A | SY/MD | Ok |
| 24 | Q2819-04 | 22BP-S | VW032074.D | 11 Aug 2025 18:03 | vial-A | SY/MD | Ok |
| 25 | Q2819-05 | 11M-W | VW032075.D | 11 Aug 2025 18:25 | vial-A | SY/MD | Ok |
| 26 | Q2819-06 | 11M-S | VW032076.D | 11 Aug 2025 18:47 | vial-A | SY/MD | Ok |
| 27 | VIBLK | VIBLK | VW032077.D | 11 Aug 2025 19:09 | | SY/MD | Ok |
| 28 | VSTDCCC050 | VSTDCCC050EC | VW032078.D | 11 Aug 2025 19:31 | | SY/MD | Ok,M |

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**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY081225

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 8/14/2025 7:34:22 PM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 8/14/2025 7:44:13 PM | | |
| SubDirectory | VY081225 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y081225s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP135083 |
| Initial Calibration Stds | VP135084,VP135085,VP135086,VP135087,VP135088,VP135089 |
| CCC | |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | VP135090 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr # | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VY023048.D | 12 Aug 2025 08:26 | | SY/MD | Ok |
| 2 | VSTDICC005 | VSTDICC005 | VY023049.D | 12 Aug 2025 14:32 | Not used | SY/MD | Not Ok |
| 3 | VSTDICC005 | VSTDICC005 | VY023050.D | 12 Aug 2025 14:54 | | SY/MD | Ok,M |
| 4 | VSTDICC010 | VSTDICC010 | VY023051.D | 12 Aug 2025 15:17 | | SY/MD | Ok,M |
| 5 | VSTDICC020 | VSTDICC020 | VY023052.D | 12 Aug 2025 15:40 | LR-20 | SY/MD | Ok,M |
| 6 | VSTDICCC050 | VSTDICCC050 | VY023053.D | 12 Aug 2025 16:02 | | SY/MD | Ok,M |
| 7 | VSTDICC100 | VSTDICC100 | VY023054.D | 12 Aug 2025 16:25 | | SY/MD | Ok,M |
| 8 | VSTDICC150 | VSTDICC150 | VY023055.D | 12 Aug 2025 16:47 | | SY/MD | Ok,M |
| 9 | VIBLK | VIBLK | VY023056.D | 12 Aug 2025 17:31 | | SY/MD | Ok |
| 10 | VSTDICV050 | ICVVY081225 | VY023057.D | 12 Aug 2025 17:53 | | SY/MD | Ok,M |

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**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY081325

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 8/18/2025 8:46:30 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 8/19/2025 4:18:05 AM | | |
| SubDirectory | VY081325 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y081225s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP135111 |
| Initial Calibration Stds | |
| CCC | VP135112,VP135113 |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr # | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VY023058.D | 13 Aug 2025 08:21 | | SY/MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VY023059.D | 13 Aug 2025 09:37 | | SY/MD | Ok,M |
| 3 | VY0813SBL01 | VY0813SBL01 | VY023060.D | 13 Aug 2025 10:39 | | SY/MD | Ok |
| 4 | VY0813SBS01 | VY0813SBS01 | VY023061.D | 13 Aug 2025 11:09 | | SY/MD | Ok,M |
| 5 | VY0813SBSD01 | VY0813SBSD01 | VY023062.D | 13 Aug 2025 11:32 | | SY/MD | Ok,M |
| 6 | Q2831-02 | VNJ-238-VOC | VY023063.D | 13 Aug 2025 12:34 | vial-A | SY/MD | Ok |
| 7 | Q2830-01 | BIN0009-DRIVEWAY-T | VY023064.D | 13 Aug 2025 12:58 | vial-A | SY/MD | Ok |
| 8 | Q2830-03 | BIN0009-DRIVEWAY-T | VY023065.D | 13 Aug 2025 13:21 | vial-A | SY/MD | Ok |
| 9 | Q2830-05 | BIN0009-DRIVEWAY-T | VY023066.D | 13 Aug 2025 13:45 | vial-A Internal Standard fail | SY/MD | ReRun |
| 10 | Q2830-07 | BIN0009-DRIVEWAY-T | VY023067.D | 13 Aug 2025 14:08 | vial-A | SY/MD | Ok |
| 11 | Q2827-03 | TP-8-VOC | VY023068.D | 13 Aug 2025 14:32 | vial-A | SY/MD | Ok |
| 12 | Q2819-07 | 11M-N | VY023069.D | 13 Aug 2025 14:55 | vial-A | SY/MD | Ok,M |
| 13 | Q2819-08 | 11M-E | VY023070.D | 13 Aug 2025 15:19 | vial-A | SY/MD | Ok |
| 14 | Q2819-09 | 84SB-E | VY023071.D | 13 Aug 2025 15:43 | vial-A | SY/MD | Ok |
| 15 | Q2819-10 | 84SB-S | VY023072.D | 13 Aug 2025 16:06 | vial-A Surrogate Fail | SY/MD | ReRun |
| 16 | Q2819-11 | 84SB-W | VY023073.D | 13 Aug 2025 16:30 | vial-A Internal Standard fail;Surrogate Fail | SY/MD | ReRun |
| 17 | Q2819-12 | 17M-S | VY023074.D | 13 Aug 2025 16:53 | vial-A | SY/MD | Ok |

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**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY081325

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 8/18/2025 8:46:30 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 8/19/2025 4:18:05 AM | | |
| SubDirectory | VY081325 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y081225s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP135111 |
| Initial Calibration Stds | |
| CCC | VP135112,VP135113 |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 18 | Q2819-13 | 17M-E | VY023075.D | 13 Aug 2025 17:17 | vial-A | SY/MD | Ok |
| 19 | Q2819-14 | 17M-W | VY023076.D | 13 Aug 2025 17:40 | vial-A | SY/MD | Ok |
| 20 | Q2819-15 | 17M-N | VY023077.D | 13 Aug 2025 18:04 | vial-A Internal Standard fail | SY/MD | ReRun |
| 21 | Q2819-16 | 38M-S | VY023078.D | 13 Aug 2025 18:27 | vial-A Surrogate Fail | SY/MD | ReRun |
| 22 | Q2819-17 | 38M-N | VY023079.D | 13 Aug 2025 18:51 | vial-A | SY/MD | Ok |
| 23 | Q2819-18 | 38M-W | VY023080.D | 13 Aug 2025 19:14 | vial-A | SY/MD | Ok |
| 24 | Q2819-19 | 38M-E | VY023081.D | 13 Aug 2025 19:38 | vial-A | SY/MD | Ok |
| 25 | VSTDCCC050 | VSTDCCC050EC | VY023082.D | 13 Aug 2025 20:00 | | SY/MD | Ok,M |

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**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY081425

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 8/19/2025 4:23:08 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 8/19/2025 6:52:38 AM | | |
| SubDirectory | VY081425 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y081225s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP135134 |
| Initial Calibration Stds | |
| CCC | VP135135,VP135136 |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr # | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VY023083.D | 14 Aug 2025 09:48 | | SY/MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VY023084.D | 14 Aug 2025 10:17 | | SY/MD | Ok,M |
| 3 | VY0814SBL01 | VY0814SBL01 | VY023085.D | 14 Aug 2025 10:50 | | SY/MD | Ok |
| 4 | VY0814SBS01 | VY0814SBS01 | VY023086.D | 14 Aug 2025 11:22 | | SY/MD | Ok,M |
| 5 | VY0814SBSD01 | VY0814SBSD01 | VY023087.D | 14 Aug 2025 11:45 | | SY/MD | Ok,M |
| 6 | Q2830-05 | BIN0009-DRIVEWAY-T | VY023088.D | 14 Aug 2025 12:26 | vial-B | SY/MD | Ok |
| 7 | Q2819-10RE | 84SB-SRE | VY023089.D | 14 Aug 2025 12:50 | vial-B Surrogate Fail | SY/MD | Confirms |
| 8 | Q2819-11RE | 84SB-WRE | VY023090.D | 14 Aug 2025 13:13 | vial-B Internal Standard fail;Surrogate Fail | SY/MD | Confirms |
| 9 | Q2819-15 | 17M-N | VY023091.D | 14 Aug 2025 13:37 | vial-B | SY/MD | Ok |
| 10 | Q2819-16 | 38M-S | VY023092.D | 14 Aug 2025 14:00 | vial-B | SY/MD | Ok |
| 11 | Q2819-20 | 82H-E | VY023093.D | 14 Aug 2025 14:24 | vial-A Internal Standard fail;Surrogate Fail | SY/MD | ReRun |
| 12 | Q2838-03 | TP-11-VOC | VY023094.D | 14 Aug 2025 14:47 | vial-A | SY/MD | Ok |
| 13 | Q2838-07 | TP-10-VOC | VY023095.D | 14 Aug 2025 15:11 | vial-A | SY/MD | Ok |
| 14 | Q2840-01 | 0804-SOIL | VY023096.D | 14 Aug 2025 15:34 | vial-A | SY/MD | Ok |
| 15 | Q2858-01 | VNJ 216 | VY023097.D | 14 Aug 2025 15:57 | vial-A | SY/MD | Ok |
| 16 | Q2857-03 | 72-12002 | VY023098.D | 14 Aug 2025 16:21 | vial-A | SY/MD | Ok |
| 17 | Q2826-01 | WC1 | VY023099.D | 14 Aug 2025 16:44 | vial-A | SY/MD | Ok |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY081425

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 8/19/2025 4:23:08 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 8/19/2025 6:52:38 AM | | |
| SubDirectory | VY081425 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y081225s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP135134 |
| Initial Calibration Stds | |
| CCC | VP135135,VP135136 |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 18 | Q2873-01 | DRILL CUTTING 1-3 C | VY023100.D | 14 Aug 2025 17:08 | vial-A | SY/MD | Ok |
| 19 | Q2873-04 | DRILL CUTTING 4-6 C | VY023101.D | 14 Aug 2025 17:31 | vial-A | SY/MD | Ok |
| 20 | Q2871-01 | DRILL CUTTING 1-3 C | VY023102.D | 14 Aug 2025 17:55 | vial-A | SY/MD | Ok |
| 21 | Q2871-04 | DRILL CUTTING 4-6 C | VY023103.D | 14 Aug 2025 18:18 | vial-A Internal Standard Fail | SY/MD | ReRun |
| 22 | Q2871-07 | DRILL CUTTING 1-5 C | VY023104.D | 14 Aug 2025 18:42 | vial-A | SY/MD | Ok |
| 23 | Q2872-01 | DRILL CUTTING 1-2 C | VY023105.D | 14 Aug 2025 19:05 | vial-A Internal Standard Fail | SY/MD | ReRun |
| 24 | Q2870-01 | DRILL CUTTING 1-5 C | VY023106.D | 14 Aug 2025 19:29 | vial-A Internal Standard Fail | SY/MD | Ok |
| 25 | Q2870-04 | DRILL CUTTING 6-9 C | VY023107.D | 14 Aug 2025 19:52 | vial-A | SY/MD | Ok |
| 26 | VIBLK | VIBLK | VY023108.D | 14 Aug 2025 20:15 | | SY/MD | Ok |
| 27 | VSTDCCC050 | VSTDCCC050EC | VY023109.D | 14 Aug 2025 20:38 | | SY/MD | Ok,M |

M : Manual Integration

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Fax : 908 789 8922

**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY081925

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 8/20/2025 9:05:17 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 8/20/2025 9:12:04 AM | | |
| SubDirectory | VY081925 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y081225s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP135166 |
| Initial Calibration Stds | |
| CCC | VP135167,VP135168 |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr # | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VY023136.D | 19 Aug 2025 07:45 | | SY/MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VY023137.D | 19 Aug 2025 09:11 | | SY/MD | Ok,M |
| 3 | VY0819SBL01 | VY0819SBL01 | VY023138.D | 19 Aug 2025 09:49 | | SY/MD | Ok |
| 4 | VY0819SBS01 | VY0819SBS01 | VY023139.D | 19 Aug 2025 10:19 | | SY/MD | Ok,M |
| 5 | VY0819SBSD01 | VY0819SBSD01 | VY023140.D | 19 Aug 2025 10:42 | | SY/MD | Ok,M |
| 6 | Q2820-01 | 82H-S | VY023141.D | 19 Aug 2025 11:20 | vial-B | SY/MD | Ok |
| 7 | Q2820-15 | 10P-S | VY023142.D | 19 Aug 2025 11:44 | vial-B | SY/MD | Ok |
| 8 | Q2820-23 | 22M-E | VY023143.D | 19 Aug 2025 12:07 | vial-B | SY/MD | Ok |
| 9 | Q2819-20 | 82H-E | VY023144.D | 19 Aug 2025 12:31 | vial-B | SY/MD | Ok |
| 10 | Q2870-01 | DRILL CUTTING 1-5 C | VY023145.D | 19 Aug 2025 12:54 | vial-B Not Purge | SY/MD | Not Ok |
| 11 | Q2871-04RE | DRILL CUTTING 4-6 C | VY023146.D | 19 Aug 2025 13:18 | vial-B Internal Standard Fail | SY/MD | Confirms |
| 12 | Q2872-01RE | DRILL CUTTING 1-2 C | VY023147.D | 19 Aug 2025 13:41 | vial-B Internal Standard Fail | SY/MD | Confirms |
| 13 | Q2879-01 | OU4-TS-GRILLO-TSCF | VY023148.D | 19 Aug 2025 14:04 | vial-A | SY/MD | Ok |
| 14 | Q2879-03 | OU4-TS-GRILLO-TSCF | VY023149.D | 19 Aug 2025 14:28 | vial-A Surrogate fail | SY/MD | ReRun |
| 15 | Q2879-05 | OU4-TS-GRILLO-TSCF | VY023150.D | 19 Aug 2025 14:51 | vial-A Surrogate fail | SY/MD | ReRun |
| 16 | Q2879-07 | OU4-TS-GRILLO-TSCF | VY023151.D | 19 Aug 2025 15:15 | vial-A | SY/MD | Ok |
| 17 | Q2879-09 | OU4-TS-GRILLO-TSCF | VY023152.D | 19 Aug 2025 15:38 | vial-A Surrogate fail | SY/MD | ReRun |
| 18 | Q2879-11 | OU4-TS-GRILLO-TSCF | VY023153.D | 19 Aug 2025 16:02 | vial-A Surrogate fail | SY/MD | ReRun |

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Fax : 908 789 8922

**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY081925

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 8/20/2025 9:05:17 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 8/20/2025 9:12:04 AM | | |
| SubDirectory | VY081925 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y081225s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP135166 |
| Initial Calibration Stds | |
| CCC | VP135167,VP135168 |
| Internal Standard/PEM | VP133934 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q2879-13 | OU4-TS-GRILLO-TSCF | VY023154.D | 19 Aug 2025 16:25 | vial-A Surrogate fail | SY/MD | ReRun |
| 20 | Q2879-15 | OU4-TS-GRILLO-TSCF | VY023155.D | 19 Aug 2025 16:49 | vial-A Surrogate fail | SY/MD | ReRun |
| 21 | Q2879-17 | OU4-TS-GRILLO-TSCF | VY023156.D | 19 Aug 2025 17:12 | vial-A Surrogate fail | SY/MD | ReRun |
| 22 | Q2897-01 | HD-02-08182025 | VY023157.D | 19 Aug 2025 17:36 | vial-A Internal Standard Fail | SY/MD | ReRun |
| 23 | Q2889-01 | PL-02-081525 | VY023158.D | 19 Aug 2025 17:59 | vial-A | SY/MD | Ok |
| 24 | Q2888-01 | VNJ-210 | VY023159.D | 19 Aug 2025 18:22 | vial-A | SY/MD | Ok |
| 25 | VSTDCCC050 | VSTDCCC050EC | VY023160.D | 19 Aug 2025 19:08 | | SY/MD | Ok,M |

M : Manual Integration

# PERCENT SOLID

**Supervisor:** rubina
**Analyst:** jignesh
**Date:** 8/13/2025

**OVENTEMP IN Celsius(°C):** 107
**Time IN:** 17:30
**In Date:** 08/12/2025
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**OvenID:** M OVEN#1

**OVENTEMP OUT Celsius(°C):** 104
**Time OUT:** 08:22
**Out Date:** 08/13/2025
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**BalanceID:** M SC-4
**Thermometer ID:** % solids-oven

**QC:** LB136783

| Lab ID | Client SampleID | Dish # | Dish Wt(g) (A) | Sample Wt(g) | Dish + Sample Wt(g) (B) | Dish+Dry Sample Wt(g) (C) | % Solid | Comments |
|---|---|---|---|---|---|---|---|---|
| Q2732-02 | WC-A7-01-C | 74 | 1.15 | 10.37 | 11.52 | 11.18 | 96.7 | |
| Q2819-01 | 22BP-N | 1 | 1.15 | 10.16 | 11.31 | 9.57 | 82.9 | |
| Q2819-02 | 22BP-E | 2 | 1.16 | 10.67 | 11.83 | 10.3 | 85.7 | |
| Q2819-03 | 22BP-W | 3 | 1.16 | 10.83 | 11.99 | 10.45 | 85.8 | |
| Q2819-04 | 22BP-S | 4 | 1.15 | 9.96 | 11.11 | 9.92 | 88.1 | |
| Q2819-05 | 11M-W | 5 | 1.14 | 10.45 | 11.59 | 10.7 | 91.5 | |
| Q2819-06 | 11M-S | 6 | 1.16 | 10.83 | 11.99 | 10.96 | 90.5 | |
| Q2819-07 | 11M-N | 7 | 1.16 | 10.81 | 11.97 | 9.37 | 75.9 | |
| Q2819-08 | 11M-E | 8 | 1.17 | 10.27 | 11.44 | 8.54 | 71.8 | |
| Q2819-09 | 84SB-E | 9 | 1.13 | 10.62 | 11.75 | 5.12 | 37.6 | |
| Q2819-10 | 84SB-S | 10 | 1.18 | 10.11 | 11.29 | 10.51 | 92.3 | |
| Q2819-11 | 84SB-W | 11 | 1.14 | 10.14 | 11.28 | 9.94 | 86.8 | |
| Q2819-12 | 17M-S | 12 | 1.19 | 10.66 | 11.85 | 11.15 | 93.4 | |
| Q2819-13 | 17M-E | 13 | 1.17 | 10.38 | 11.55 | 9.86 | 83.7 | |
| Q2819-14 | 17M-W | 14 | 1.15 | 10.46 | 11.61 | 10.1 | 85.6 | |
| Q2819-15 | 17M-N | 15 | 1.15 | 10.57 | 11.72 | 9.96 | 83.3 | |
| Q2819-16 | 38M-S | 16 | 1.15 | 10.77 | 11.92 | 11.1 | 92.4 | |
| Q2819-17 | 38M-N | 17 | 1.16 | 10.41 | 11.57 | 10.27 | 87.5 | |
| Q2819-18 | 38M-W | 18 | 1.14 | 10.66 | 11.8 | 10.34 | 86.3 | |
| Q2819-19 | 38M-E | 19 | 1.13 | 10.13 | 11.26 | 10.02 | 87.8 | |
| Q2819-20 | 82H-E | 20 | 1.17 | 10.64 | 11.81 | 9.38 | 77.2 | |
| Q2820-01 | 82H-S | 21 | 1.16 | 10.76 | 11.92 | 10.04 | 82.5 | |
| Q2820-02 | 82H-W | 22 | 1.15 | 11.21 | 12.36 | 10.51 | 83.5 | |
| Q2820-03 | 82H-N | 23 | 1.16 | 11.14 | 12.3 | 10.9 | 87.4 | |
| Q2820-04 | SOIL-DUP-1 | 24 | 1.16 | 10.83 | 11.99 | 10.56 | 86.8 | |
| Q2820-05 | 518R-E | 25 | 1.16 | 10.40 | 11.56 | 6.23 | 48.8 | |
| Q2820-06 | 518R-N | 26 | 1.18 | 10.55 | 11.73 | 9.35 | 77.4 | |
| Q2820-07 | 518R-S | 27 | 1.17 | 10.52 | 11.69 | 9.44 | 78.6 | |

# PERCENT SOLID

**Supervisor:** rubina
**Analyst:** jignesh
**Date:** 8/13/2025

**OVENTEMP IN Celsius(°C):** 107
**Time IN:** 17:30
**In Date:** 08/12/2025
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**OvenID:** M OVEN#1

**OVENTEMP OUT Celsius(°C):** 104
**Time OUT:** 08:22
**Out Date:** 08/13/2025
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**BalanceID:** M SC-4
**Thermometer ID:** % solids-oven

**QC:** LB136783

| Lab ID | Client SampleID | Dish # | Dish Wt(g) (A) | Sample Wt(g) | Dish + Sample Wt(g) (B) | Dish+Dry Sample Wt(g) (C) | % Solid | Comments |
|---|---|---|---|---|---|---|---|---|
| Q2820-08 | 518R-W | 28 | 1.13 | 10.80 | 11.93 | 10.74 | 89.0 | |
| Q2820-09 | 705R-S | 29 | 1.14 | 10.59 | 11.73 | 7.05 | 55.8 | |
| Q2820-10 | SOIL-DUP-2 | 30 | 1.15 | 10.87 | 12.02 | 6.41 | 48.4 | |
| Q2820-11 | 10PC-W | 31 | 1.11 | 10.25 | 11.36 | 10.58 | 92.4 | |
| Q2820-12 | 10PC-S | 32 | 1.19 | 10.52 | 11.71 | 10.88 | 92.1 | |
| Q2820-13 | 10P-W | 33 | 1.14 | 10.09 | 11.23 | 10.34 | 91.2 | |
| Q2820-14 | 10P-E | 34 | 1.19 | 10.37 | 11.56 | 9.62 | 81.3 | |
| Q2820-15 | 10P-S | 35 | 1.18 | 10.21 | 11.39 | 10.22 | 88.5 | |
| Q2820-16 | 10P-N | 36 | 1.11 | 10.09 | 11.2 | 9.81 | 86.2 | |
| Q2820-17 | 88H-E | 37 | 1.16 | 10.42 | 11.58 | 9.77 | 82.6 | |
| Q2820-18 | 88H-N | 38 | 1.16 | 10.90 | 12.06 | 10.57 | 86.3 | |
| Q2820-19 | 88H-W | 39 | 1.18 | 10.66 | 11.84 | 10.62 | 88.6 | |
| Q2820-20 | 88H-S | 40 | 1.18 | 10.12 | 11.3 | 9.74 | 84.6 | |
| Q2820-21 | 22M-N | 41 | 1.14 | 11.06 | 12.2 | 11.34 | 92.2 | |
| Q2820-22 | 22M-W | 42 | 1.17 | 10.90 | 12.07 | 6.94 | 52.9 | |
| Q2820-23 | 22M-E | 43 | 1.17 | 10.27 | 11.44 | 4.66 | 34.0 | |
| Q2820-24 | 22M-S | 44 | 1.13 | 10.68 | 11.81 | 10.63 | 89.0 | |
| Q2832-01 | TG-S01 | 45 | 1.15 | 10.46 | 11.61 | 10.92 | 93.4 | |
| Q2832-03 | TG-S02 | 46 | 1.18 | 10.41 | 11.59 | 10.97 | 94.0 | |
| Q2832-05 | TG-S03 | 47 | 1.15 | 10.50 | 11.65 | 11.00 | 93.8 | |
| Q2832-07 | TG-S04 | 48 | 1.17 | 10.58 | 11.75 | 11.02 | 93.1 | |
| Q2832-09 | TG-S05 | 49 | 1.15 | 10.40 | 11.55 | 10.6 | 90.9 | |
| Q2836-02 | WC-A2-15-C | 75 | 1.18 | 10.38 | 11.56 | 9.67 | 81.8 | |
| Q2836-06 | WC-A2-16-C | 76 | 1.19 | 10.43 | 11.62 | 10.66 | 90.8 | |
| Q2836-10 | WC-A2-17-C | 77 | 1.19 | 10.48 | 11.67 | 10.96 | 93.2 | |
| Q2836-14 | WC-A5-02-C | 78 | 1.19 | 10.17 | 11.36 | 8.8 | 74.8 | |
| Q2838-01 | TP-11 | 50 | 1.14 | 10.60 | 11.74 | 10.44 | 87.7 | |
| Q2838-02 | TP-11-EPH | 51 | 1.14 | 10.85 | 11.99 | 9.57 | 77.7 | |

# PERCENT SOLID

**Supervisor:** rubina
**Analyst:** jignesh
**Date:** 8/13/2025

**OVENTEMP IN Celsius(°C):** 107
**Time IN:** 17:30
**In Date:** 08/12/2025
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**OvenID:** M OVEN#1

**OVENTEMP OUT Celsius(°C):** 104
**Time OUT:** 08:22
**Out Date:** 08/13/2025
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**BalanceID:** M SC-4
**Thermometer ID:** % solids-oven

**QC:** LB136783

| Lab ID | Client SampleID | Dish # | Dish Wt(g) (A) | Sample Wt(g) | Dish + Sample Wt(g) (B) | Dish+Dry Sample Wt(g) (C) | % Solid | Comments |
|---|---|---|---|---|---|---|---|---|
| Q2838-03 | TP-11-VOC | 52 | 1.19 | 11.24 | 12.43 | 9.97 | 78.1 | |
| Q2838-05 | TP-10 | 53 | 1.14 | 11.08 | 12.22 | 10.75 | 86.7 | |
| Q2838-06 | TP-10-EPH | 54 | 1.18 | 10.42 | 11.6 | 7.63 | 61.9 | |
| Q2838-07 | TP-10-VOC | 55 | 1.18 | 10.50 | 11.68 | 8.68 | 71.4 | |
| Q2839-01 | BC274436-1-1 | 56 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | PILC |
| Q2839-02 | BC274436-1-2 | 57 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | PILC |
| Q2839-03 | BC151973-1-1 | 58 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | PILC |
| Q2839-04 | BC151973-1-2 | 59 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | PILC |
| Q2839-05 | BC271336-1-1 | 60 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | PILC |
| Q2839-06 | BC271336-1-2 | 61 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | PILC |
| Q2839-07 | BC271242-1-1 | 62 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | PILC |
| Q2839-08 | BC271242-1-2 | 63 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | PILC |
| Q2839-09 | BC271242-2-1 | 64 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | PILC |
| Q2839-10 | BC271242-2-2 | 65 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | PILC |
| Q2839-11 | BC226751-1-1 | 66 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | PILC |
| Q2839-12 | BC226751-1-2 | 67 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | PILC |
| Q2839-13 | BC226751-2-1 | 68 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | PILC |
| Q2839-14 | BC226751-2-2 | 69 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | PILC |
| Q2839-15 | JEC773V-1-1 | 70 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | PILC |
| Q2839-16 | JEC773V-1-2 | 71 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | PILC |
| Q2840-01 | 0804-SOIL | 72 | 1.12 | 11.32 | 12.44 | 10.42 | 82.2 | |
| Q2840-02 | 0804-D | 73 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | debris |

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

# WORKLIST(Hardcopy Internal Chain)

JB 136783

**WorkList Name :** %1-081225 **WorkList ID :** 191210 **Department :** Wet-Chemistry **Date :** 08-12-2025 07:56:53

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q2820-06 | 518R-N | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/07/2025 | Chemtech -SO |
| Q2820-07 | 518R-S | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/07/2025 | Chemtech -SO |
| Q2820-08 | 518R-W | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/07/2025 | Chemtech -SO |
| Q2820-09 | 705R-S | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/07/2025 | Chemtech -SO |
| Q2820-10 | SOIL-DUP-2 | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/07/2025 | Chemtech -SO |
| Q2819-19 | 38M-E | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/06/2025 | Chemtech -SO |
| Q2819-20 | 82H-E | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/06/2025 | Chemtech -SO |
| Q2820-01 | 82H-S | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/06/2025 | Chemtech -SO |
| Q2820-02 | 82H-W | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/06/2025 | Chemtech -SO |
| Q2820-03 | 82H-N | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/06/2025 | Chemtech -SO |
| Q2820-04 | SOIL-DUP-1 | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/06/2025 | Chemtech -SO |
| Q2819-13 | 17M-E | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/06/2025 | Chemtech -SO |
| Q2819-14 | 17M-W | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/05/2025 | Chemtech -SO |
| Q2819-15 | 17M-N | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/05/2025 | Chemtech -SO |
| Q2819-16 | 38M-S | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/05/2025 | Chemtech -SO |
| Q2819-17 | 38M-N | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/06/2025 | Chemtech -SO |
| Q2819-18 | 38M-W | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/06/2025 | Chemtech -SO |
| Q2819-07 | 11M-N | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/06/2025 | Chemtech -SO |
| Q2819-08 | 11M-E | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/05/2025 | Chemtech -SO |
| Q2819-09 | 84SB-E | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/05/2025 | Chemtech -SO |
| Q2819-10 | 84SB-S | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/05/2025 | Chemtech -SO |

**Date/Time** 08112125 1510

**Raw Sample Received by:** SB WC

**Raw Sample Relinquished by:** [signature]

**Date/Time** 08112125 1735

**Raw Sample Received by:** [signature]

**Raw Sample Relinquished by:** SB WC

# WORKLIST(Hardcopy Internal Chain)

VB 136783

**WorkList Name :** %1-081225 **WorkList ID :** 191210 **Department :** Wet-Chemistry **Date :** 08-12-2025 07:56:53

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q2819-01 | 22BP-N | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/04/2025 | Chemtech -SO |
| Q2819-02 | 22BP-E | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/04/2025 | Chemtech -SO |
| Q2819-03 | 22BP-W | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/04/2025 | Chemtech -SO |
| Q2819-04 | 22BP-S | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/04/2025 | Chemtech -SO |
| Q2819-05 | 11M-W | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/05/2025 | Chemtech -SO |
| Q2819-06 | 11M-S | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/05/2025 | Chemtech -SO |
| Q2820-23 | 22M-E | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/08/2025 | Chemtech -SO |
| Q2820-24 | 22M-S | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/08/2025 | Chemtech -SO |
| Q2820-17 | 88H-E | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/08/2025 | Chemtech -SO |
| Q2820-18 | 88H-N | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/08/2025 | Chemtech -SO |
| Q2820-19 | 88H-W | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/08/2025 | Chemtech -SO |
| Q2820-20 | 88H-S | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/08/2025 | Chemtech -SO |
| Q2820-21 | 22M-N | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/08/2025 | Chemtech -SO |
| Q2820-22 | 22M-W | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/08/2025 | Chemtech -SO |
| Q2820-11 | 10PC-W | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/07/2025 | Chemtech -SO |
| Q2820-12 | 10PC-S | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/07/2025 | Chemtech -SO |
| Q2820-13 | 10P-W | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/07/2025 | Chemtech -SO |
| Q2820-14 | 10P-E | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/07/2025 | Chemtech -SO |
| Q2820-15 | 10P-S | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/07/2025 | Chemtech -SO |
| Q2820-16 | 10P-N | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/07/2025 | Chemtech -SO |
| Q2820-05 | 518R-E | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/07/2025 | Chemtech -SO |

**Date/Time** 08/12/25 15:00

**Raw Sample Received by:** [signature]

**Raw Sample Relinquished by:** [signature]

**Date/Time** 08/12/25 17:35

**Raw Sample Received by:** [signature]

**Raw Sample Relinquished by:** [signature]

# WORKLIST(Hardcopy Internal Chain)

VB 136783

**WorkList Name :** %1-081225 **WorkList ID :** 191210 **Department :** Wet-Chemistry **Date :** 08-12-2025 07:56:53

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q2839-04 | BC151973-1-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L11 | 08/12/2025 | Chemtech -SO |
| Q2839-05 | BC271336-1-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L11 | 08/12/2025 | Chemtech -SO |
| Q2839-06 | BC271336-1-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L11 | 08/12/2025 | Chemtech -SO |
| Q2839-07 | BC271242-1-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L11 | 08/12/2025 | Chemtech -SO |
| Q2839-08 | BC271242-1-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L11 | 08/12/2025 | Chemtech -SO |
| Q2839-09 | BC271242-2-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L11 | 08/12/2025 | Chemtech -SO |
| Q2839-10 | BC271242-2-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L11 | 08/12/2025 | Chemtech -SO |
| Q2839-11 | BC226751-1-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L11 | 08/12/2025 | Chemtech -SO |
| Q2839-12 | BC226751-1-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L11 | 08/12/2025 | Chemtech -SO |
| Q2839-13 | BC226751-2-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L11 | 08/12/2025 | Chemtech -SO |
| Q2839-14 | BC226751-2-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L11 | 08/12/2025 | Chemtech -SO |
| Q2839-15 | JEC773V-1-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L11 | 08/12/2025 | Chemtech -SO |
| Q2839-16 | JEC773V-1-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L11 | 08/12/2025 | Chemtech -SO |
| Q2840-01 | 0804-SOIL | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D31 | 08/12/2025 | Chemtech -SO |
| Q2840-02 | 0804-D | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D31 | 08/12/2025 | Chemtech -SO |

**Date/Time** 08112125 15:00
**Raw Sample Received by:**
**Raw Sample Relinquished by:**

**Date/Time** 08112125 17:35
**Raw Sample Received by:**
**Raw Sample Relinquished by:**

# WORKLIST(Hardcopy Internal Chain)

WS 131783

**WorkList Name :** %1-081225 **WorkList ID :** 191210 **Department :** Wet-Chemistry **Date :** 08-12-2025 07:56:53

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| Q2819-11 | 84SB-W | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/05/2025 | Chemtech -SO |
| Q2819-12 | 17M-S | Solid | Percent Solids | Cool 4 deg C | FIRS02 | D31 | 08/05/2025 | Chemtech -SO |
| Q2832-01 | TG-S01 | Solid | Percent Solids | Cool 4 deg C | PORT06 | J21 | 08/11/2025 | Chemtech -SO |
| Q2732-02 | WC-A7-01-C | Solid | Percent Solids | Cool 4 deg C | ENTA05 | J21 | 08/12/2025 | Chemtech -SO |
| Q2832-03 | TG-S02 | Solid | Percent Solids | Cool 4 deg C | PORT06 | J21 | 08/11/2025 | Chemtech -SO |
| Q2832-05 | TG-S03 | Solid | Percent Solids | Cool 4 deg C | PORT06 | J21 | 08/11/2025 | Chemtech -SO |
| Q2832-07 | TG-S04 | Solid | Percent Solids | Cool 4 deg C | PORT06 | J21 | 08/11/2025 | Chemtech -SO |
| Q2832-09 | TG-S05 | Solid | Percent Solids | Cool 4 deg C | PORT06 | J21 | 08/12/2025 | Chemtech -SO |
| Q2836-02 | WC-A2-15-C | Solid | Percent Solids | Cool 4 deg C | ENTA05 | J23 | 08/12/2025 | Chemtech -SO |
| Q2836-06 | WC-A2-16-C | Solid | Percent Solids | Cool 4 deg C | ENTA05 | J23 | 08/12/2025 | Chemtech -SO |
| Q2836-10 | WC-A2-17-C | Solid | Percent Solids | Cool 4 deg C | ENTA05 | J23 | 08/12/2025 | Chemtech -SO |
| Q2836-14 | WC-A5-02-C | Solid | Percent Solids | Cool 4 deg C | ENTA05 | J23 | 08/12/2025 | Chemtech -SO |
| Q2838-01 | TP-11 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D21 | 08/12/2025 | Chemtech -SO |
| Q2838-02 | TP-11-EPH | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D21 | 08/12/2025 | Chemtech -SO |
| Q2838-03 | TP-11-VOC | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D21 | 08/12/2025 | Chemtech -SO |
| Q2838-05 | TP-10 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D21 | 08/12/2025 | Chemtech -SO |
| Q2838-06 | TP-10-EPH | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D21 | 08/12/2025 | Chemtech -SO |
| Q2838-07 | TP-10-VOC | Solid | Percent Solids | Cool 4 deg C | PSEG03 | D21 | 08/12/2025 | Chemtech -SO |
| Q2839-01 | BC274436-1-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L11 | 08/12/2025 | Chemtech -SO |
| Q2839-02 | BC274436-1-2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L11 | 08/12/2025 | Chemtech -SO |
| Q2839-03 | BC151973-1-1 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L11 | 08/12/2025 | Chemtech -SO |

**Date/Time** 08/12/25 15:00

**Raw Sample Received by:** WC/

**Raw Sample Relinquished by:**

**Date/Time** 08/12/25 1735

**Raw Sample Received by:**

**Raw Sample Relinquished by:** WC/

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

# Prep Standard - Chemical Standard Summary

**Order ID :** Q2819

**Test :** VOC-TCLVOA-10

**Prepbatch ID :**

**Sequence ID/Qc Batch ID:** vw081125,VY081325,VY081425,vy081925,

**Standard ID :**
VP133934,VP134145,VP134147,VP134149,VP134150,VP134151,VP134263,VP134264,VP134568,VP134569,VP134742,VP134810,VP134811,VP134812,VP134814,VP134815,VP134934,VP134935,VP134957,VP135059,VP135060,VP135061,VP135074,VP135075,VP135076,VP135077,VP135078,VP135079,VP135080,VP135081,VP135082,VP135111,VP135112,VP135113,VP135129,VP135130,VP135134,VP135135,VP135136,VP135166,VP135167,VP135168,

**Chemical ID :**
V12968,V13391,V13450,V13583,V13584,V13826,V14128,V14181,V14199,V14290,V14444,V14446,V14507,V14508,V14529,V14530,V14625,V14629,V14636,V14637,V14638,V14639,V14673,V14675,V14702,V14705,V14716,V14745,V14751,V14795,V14806,V14807,V14843,V14906,V14921,V14929,V14977,V15050,V15051,V15052,V15055,V15056,V15057,V15058,V15059,W3112,

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1917 | 8260 Internal standard 50 ppm | VP133934 | 05/16/2025 | 11/12/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 05/21/2025 |

**FROM** 0.10000ml of V14290 + 49.90000ml of V14921 = Final Quantity: 50.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 253 | 8260 Working STD (BCM)-First source, 20PPM | VP134145 | 06/06/2025 | 12/06/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 06/10/2025 |

**FROM** 0.50000ml of V14675 + 49.50000ml of V14929 = Final Quantity: 50.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 252 | 8260 Working STD (BCM)-First source, 100PPM | VP134147 | 06/06/2025 | 12/06/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 06/10/2025 |

**FROM** 1.00000ml of V14673 + 19.00000ml of V14929 = Final Quantity: 20.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1810 | 8260 Working Std(2-CVE)-800ppm | VP134149 | 06/06/2025 | 12/06/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 06/10/2025 |

**FROM** 1.00000ml of V14636 + 1.00000ml of V14637 + 1.00000ml of V14638 + 1.00000ml of V14639 + 46.00000ml of V14929 = Final Quantity: 50.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1811 | 8260 Working Std(2-CVE)-500ppm | VP134150 | 06/06/2025 | 12/06/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 06/10/2025 |

**FROM** 7.50000ml of V14929 + 12.50000ml of VP134149 = Final Quantity: 20.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1812 | 8260 Working Std(2-CVE)-100ppm | VP134151 | 06/06/2025 | 12/06/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 06/10/2025 |

**FROM** 0.25000ml of V14639 + 24.75000ml of V14929 = Final Quantity: 25.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1817 | 8260 Working Std(2-CVE)-SS, 800ppm | VP134263 | 06/11/2025 | 11/12/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 06/12/2025 |

**FROM** 0.60000ml of V13584 + 1.00000ml of V13583 + 18.40000ml of V14921 = Final Quantity: 20.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1819 | 8260 Working Std(2-CVE)-SS, 500ppm | VP134264 | 06/11/2025 | 11/12/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 06/12/2025 |

**FROM** 1.87500ml of V14921 + 3.12500ml of VP134263 = Final Quantity: 5.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 259 | 8260 Calibration Working STD Mix-Second source, 160PPM | VP134568 | 06/30/2025 | 08/16/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 07/15/2025 |

**FROM** 0.16000ml of V13450 + 0.80000ml of V13826 + 0.80000ml of V14128 + 0.80000ml of V14181 + 0.80000ml of V14795 + 0.80000ml of V14977 + 1.60000ml of V14199 + 4.24000ml of V14929 = Final Quantity: 10.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 260 | 8260 Calibration Working STD Mix-Second source, 100PPM | VP134569 | 06/30/2025 | 08/16/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 07/15/2025 |

**FROM** 1.87500ml of V14929 + 3.12500ml of VP134568 = Final Quantity: 5.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 262 | 8260 Working STD (BCM)-Second source, 100PPM | VP134742 | 07/14/2025 | 01/07/2026 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 07/23/2025 |

**FROM** 1.00000ml of V12968 + 9.00000ml of V14629 = Final Quantity: 10.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 51 | 8260 Working STD (Acrolein) -first source, 800PPM | VP134810 | 07/18/2025 | 08/16/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 07/23/2025 |

**FROM** 1.00000ml of V15052 + 1.50000ml of V15050 + 1.50000ml of V15051 + 21.00000ml of V14629 = Final Quantity: 25.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 56 | 8260 Working STD (Acrolein) -first source, 500PPM | VP134811 | 07/18/2025 | 08/16/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 07/23/2025 |

**FROM** 5.62500ml of V14629 + 9.37500ml of VP134810 = Final Quantity: 15.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 180 | 8260 Working STD (Acrolein)-First source, 100PPM | VP134812 | 07/18/2025 | 08/16/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 07/23/2025 |

**FROM** 17.50000ml of V14629 + 2.50000ml of VP134810 = Final Quantity: 20.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 263 | 8260 Working STD (Acrolein)-Second source, 800PPM | VP134814 | 07/18/2025 | 08/15/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 07/23/2025 |

**FROM** 0.60000ml of V15056 + 1.00000ml of V15055 + 8.40000ml of V14629 = Final Quantity: 10.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 264 | 8260 Working STD (Acrolein)-Second source, 500PPM | VP134815 | 07/18/2025 | 08/15/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 07/23/2025 |

**FROM** 1.87500ml of V14629 + 3.12500ml of VP134814 = Final Quantity: 5.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 249 | 8260 Surrogate, 100PPM | VP134934 | 07/29/2025 | 01/29/2026 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 08/06/2025 |

**FROM** 0.10000ml of V14906 + 24.90000ml of V14625 = Final Quantity: 25.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1738 | 8260 surrogate 20 ppm | VP134935 | 07/29/2025 | 01/29/2026 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 08/06/2025 |

**FROM** 0.02000ml of V14906 + 24.99000ml of V14625 = Final Quantity: 25.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 218 | BFB, 25PPM | VP134957 | 08/01/2025 | 11/22/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 08/06/2025 |

**FROM** 0.50000ml of V13391 + 49.50000ml of V14625 = Final Quantity: 50.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 257 | 8260 Calibration Working STD Mix-First source, 160PPM | VP135059 | 08/11/2025 | 09/19/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 08/19/2025 |

**FROM** 0.40000ml of V14843 + 1.00000ml of V14444 + 1.00000ml of V14446 + 1.00000ml of V14507 + 1.00000ml of V14508 + 1.00000ml of V14529 + 1.00000ml of V14530 + 1.00000ml of V14705 + 1.00000ml of V14745 + 1.00000ml of V14751 + 1.00000ml of V14806 + 1.00000ml of V14807 + 1.50000ml of V14702 + 1.50000ml of V14716 + 10.60000ml of V14625 = Final Quantity: 25.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 244 | 8260 Calibration Working STD Mix-First source, 100PPM | VP135060 | 08/11/2025 | 09/19/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 08/19/2025 |

**FROM** 5.62500ml of V14625 + 9.37500ml of VP135059 = Final Quantity: 15.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 245 | 8260 Calibration Working STD Mix-First source, 20PPM | VP135061 | 08/11/2025 | 09/19/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 08/19/2025 |

**FROM** 17.50000ml of V14625 + 2.50000ml of VP135059 = Final Quantity: 20.000 ml

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Fax : 908 789 8922

# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 732 | BFB TUNE CHECK - SOIL | VP135074 | 08/11/2025 | 08/12/2025 | Amit Patel | None | None | Mahesh Dadoda 08/19/2025 |

**FROM** 4.99800ml of W3112 + 0.00200ml of VP134957 = Final Quantity: 5.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 267 | 5 PPB ICC, 8260-SOIL | VP135075 | 08/11/2025 | 08/12/2025 | Amit Patel | None | None | Mahesh Dadoda 08/19/2025 |

**FROM** 4.98800ml of W3112 + 0.00130ml of VP134145 + 0.00130ml of VP134151 + 0.00130ml of VP134812 + 0.00130ml of VP134935 + 0.00130ml of VP135061 + 0.00500ml of VP133934 = Final Quantity: 5.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 269 | 10 PPB ICC, 8260-SOIL | VP135076 | 08/11/2025 | 08/12/2025 | Amit Patel | None | None | Mahesh Dadoda 08/19/2025 |

**FROM** 4.98000ml of W3112 + 0.00250ml of VP134145 + 0.00250ml of VP134151 + 0.00250ml of VP134812 + 0.00250ml of VP134935 + 0.00250ml of VP135061 + 0.00500ml of VP133934 = Final Quantity: 5.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 270 | 20 PPB ICC, 8260-SOIL | VP135077 | 08/11/2025 | 08/12/2025 | Amit Patel | None | None | Mahesh Dadoda 08/19/2025 |

**FROM** 4.96500ml of W3112 + 0.00500ml of VP133934 + 0.00500ml of VP134145 + 0.00500ml of VP134151 + 0.00500ml of VP134812 + 0.00500ml of VP134935 + 0.00500ml of VP135061 = Final Quantity: 5.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 273 | 50 PPB ICC, 8260-SOIL | VP135078 | 08/11/2025 | 08/12/2025 | Amit Patel | None | None | Mahesh Dadoda 08/19/2025 |

**FROM** 4.98000ml of W3112 + 0.00250ml of VP134147 + 0.00250ml of VP134150 + 0.00250ml of VP134811 + 0.00250ml of VP134934 + 0.00250ml of VP135060 + 0.00500ml of VP133934 = Final Quantity: 5.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 280 | 100 PPB ICC, 8260-SOIL | VP135079 | 08/11/2025 | 08/12/2025 | Amit Patel | None | None | Mahesh Dadoda 08/19/2025 |

**FROM** 4.96500ml of W3112 + 0.00500ml of VP133934 + 0.00500ml of VP134147 + 0.00500ml of VP134150 + 0.00500ml of VP134811 + 0.00500ml of VP134934 + 0.00500ml of VP135060 = Final Quantity: 5.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1653 | 150 PPB ICC,8260-SOIL | VP135080 | 08/11/2025 | 08/12/2025 | Amit Patel | None | None | Mahesh Dadoda 08/19/2025 |

**FROM** 4.95000ml of W3112 + 0.00500ml of VP133934 + 0.00750ml of VP134147 + 0.00750ml of VP134150 + 0.00750ml of VP134811 + 0.00750ml of VP134934 + 0.00750ml of VP135060 = Final Quantity: 5.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 287 | 50 PPB ICV, 8260-SOIL | VP135081 | 08/11/2025 | 08/12/2025 | Amit Patel | None | None | Mahesh Dadoda 08/19/2025 |

**FROM** 4.98000ml of W3112 + 0.00250ml of VP133934 + 0.00250ml of VP134264 + 0.00250ml of VP134569 + 0.00250ml of VP134742 + 0.00250ml of VP134815 + 0.00250ml of VP134934 = Final Quantity: 5.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 773 | 50 PPB CCC, 8260-SOIL | VP135082 | 08/11/2025 | 08/12/2025 | Amit Patel | None | None | Mahesh Dadoda 08/19/2025 |

**FROM** 4.98000ml of W3112 + 0.00250ml of VP134147 + 0.00250ml of VP134150 + 0.00250ml of VP134811 + 0.00250ml of VP134934 + 0.00250ml of VP135060 + 0.00500ml of VP133934 = Final Quantity: 5.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 732 | BFB TUNE CHECK - SOIL | VP135111 | 08/13/2025 | 08/14/2025 | Amit Patel | None | None | Mahesh Dadoda 08/19/2025 |

**FROM** 4.99800ml of W3112 + 0.00200ml of VP134957 = Final Quantity: 5.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 773 | 50 PPB CCC, 8260-SOIL | VP135112 | 08/13/2025 | 08/14/2025 | Amit Patel | None | None | Mahesh Dadoda 08/19/2025 |

**FROM** 4.98000ml of W3112 + 0.00250ml of VP134147 + 0.00250ml of VP134150 + 0.00250ml of VP134811 + 0.00250ml of VP134934 + 0.00250ml of VP135060 + 0.00500ml of VP133934 = Final Quantity: 5.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 773 | 50 PPB CCC, 8260-SOIL | VP135113 | 08/13/2025 | 08/14/2025 | Amit Patel | None | None | Mahesh Dadoda 08/19/2025 |

**FROM** 4.98000ml of W3112 + 0.00250ml of VP134147 + 0.00250ml of VP134150 + 0.00250ml of VP134811 + 0.00250ml of VP134934 + 0.00250ml of VP135060 + 0.00500ml of VP133934 = Final Quantity: 5.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 51 | 8260 Working STD (Acrolein) -first source, 800PPM | VP135129 | 08/14/2025 | 09/13/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 08/19/2025 |

**FROM** 1.00000ml of V15059 + 1.50000ml of V15057 + 1.50000ml of V15058 + 21.00000ml of V14625 = Final Quantity: 25.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 56 | 8260 Working STD (Acrolein) -first source, 500PPM | VP135130 | 08/14/2025 | 09/13/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 08/19/2025 |

**FROM** 5.62500ml of V14625 + 9.37500ml of VP135129 = Final Quantity: 15.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 732 | BFB TUNE CHECK - SOIL | VP135134 | 08/14/2025 | 08/15/2025 | Amit Patel | None | None | Mahesh Dadoda 08/19/2025 |

**FROM** 4.99800ml of W3112 + 0.00200ml of VP134957 = Final Quantity: 5.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 773 | 50 PPB CCC, 8260-SOIL | VP135135 | 08/14/2025 | 08/15/2025 | Amit Patel | None | None | Mahesh Dadoda 08/19/2025 |

**FROM** 4.98000ml of W3112 + 0.00250ml of VP134147 + 0.00250ml of VP134150 + 0.00250ml of VP134934 + 0.00250ml of VP135060 + 0.00250ml of VP135130 + 0.00500ml of VP133934 = Final Quantity: 5.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 773 | 50 PPB CCC, 8260-SOIL | VP135136 | 08/14/2025 | 08/15/2025 | Amit Patel | None | None | Mahesh Dadoda 08/19/2025 |

**FROM** 4.98000ml of W3112 + 0.00250ml of VP134147 + 0.00250ml of VP134150 + 0.00250ml of VP134934 + 0.00250ml of VP135060 + 0.00250ml of VP135130 + 0.00500ml of VP133934 = Final Quantity: 5.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 732 | BFB TUNE CHECK - SOIL | VP135166 | 08/19/2025 | 08/20/2025 | Amit Patel | None | None | Mahesh Dadoda 08/20/2025 |

**FROM** 4.99800ml of W3112 + 0.00200ml of VP134957 = Final Quantity: 5.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 773 | 50 PPB CCC, 8260-SOIL | VP135167 | 08/19/2025 | 08/20/2025 | Amit Patel | None | None | Mahesh Dadoda 08/20/2025 |

**FROM** 4.98000ml of W3112 + 0.00250ml of VP134147 + 0.00250ml of VP134150 + 0.00250ml of VP134934 + 0.00250ml of VP135060 + 0.00250ml of VP135130 + 0.00500ml of VP133934 = Final Quantity: 5.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 773 | 50 PPB CCC, 8260-SOIL | VP135168 | 08/19/2025 | 08/20/2025 | Amit Patel | None | None | Mahesh Dadoda 08/20/2025 |

**FROM** 4.98000ml of W3112 + 0.00250ml of VP134147 + 0.00250ml of VP134150 + 0.00250ml of VP134934 + 0.00250ml of VP135060 + 0.00250ml of VP135130 + 0.00500ml of VP133934 = Final Quantity: 5.000 ml

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 70046 / Bromochloromethane Std. sol/methanol 1000ppm | 070122 | 01/14/2026 | 07/14/2025 / SAM | 07/06/2022 / SAM | V12968 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30067 / BFB tuneing solution | A0191805 | 11/22/2025 | 11/22/2024 / SAM | 01/13/2023 / SAM | V13391 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM | A0191703 | 11/15/2025 | 05/15/2025 / SAM | 01/23/2023 / SAM | V13450 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 95318 / 2-Chloroethyl Vinyl Ether (Min = 5) | 111722 | 11/17/2025 | 06/11/2025 / SAM | 01/30/2023 / SAM | V13583 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 95318 / 2-Chloroethyl Vinyl Ether (Min = 5) | 111722 | 11/17/2025 | 06/11/2025 / SAM | 01/30/2023 / SAM | V13584 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml | A0197644 | 12/23/2025 | 06/23/2025 / SAM | 05/31/2023 / SAM | V13826 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 95319 / Revised Additions Mix (Min = 5) | 011624 | 12/23/2025 | 06/23/2025 / SAM | 01/17/2024 / SAM | V14128 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 95317 / Universal VOA Mega Mix (Min order = 5) | 021524 | 12/23/2025 | 06/23/2025 / SAM | 02/20/2024 / SAM | V14181 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml | A0200785 | 11/07/2025 | 05/07/2025 / SAM | 02/28/2024 / SAM | V14199 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555581 / Custom Standard, 8260 Internal Std [CS 5179-1] | A0210184 | 12/12/2025 | 12/12/2024 / SAM | 04/15/2024 / SAM | V14290 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL | A0209618 | 09/30/2025 | 08/08/2025 / SAM | 08/15/2024 / SAM | V14444 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL | A0209618 | 09/30/2025 | 08/08/2025 / SAM | 08/15/2024 / SAM | V14446 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 95317 / Universal VOA Mega Mix (Min order = 5) | 021624 | 02/08/2026 | 08/08/2025 / SAM | 09/17/2024 / SAM | V14507 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 95317 / Universal VOA Mega Mix (Min order = 5) | 021624 | 02/08/2026 | 08/08/2025 / SAM | 09/17/2024 / SAM | V14508 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 95319 / Revised Additions Mix (Min = 5) | 091724 | 02/08/2026 | 08/08/2025 / SAM | 09/18/2024 / SAM | V14529 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 95319 / Revised Additions Mix (Min = 5) | 091724 | 02/08/2026 | 08/08/2025 / SAM | 09/18/2024 / SAM | V14530 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA9077-02 / Methanol, Purge/Trap (cs=6x1L) | 23I0762004 | 01/29/2026 | 07/29/2025 / SAM | 11/26/2024 / SAM | V14625 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA9077-02 / Methanol, Purge/Trap (cs=6x1L) | 23I0762004 | 01/09/2026 | 07/07/2025 / SAM | 11/26/2024 / SAM | V14629 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | / 2-Chloroethyl vinyl ether | 120524 | 12/06/2025 | 06/06/2025 / SAM | 12/06/2024 / SAM | V14636 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | / 2-Chloroethyl vinyl ether | 120524 | 12/06/2025 | 06/06/2025 / SAM | 12/06/2024 / SAM | V14637 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | / 2-Chloroethyl vinyl ether | 120524 | 12/06/2025 | 06/06/2025 / SAM | 12/06/2024 / SAM | V14638 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | / 2-Chloroethyl vinyl ether | 120524 | 12/06/2025 | 06/06/2025 / SAM | 12/06/2024 / SAM | V14639 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul | A0214960 | 12/06/2025 | 06/06/2025 / SAM | 12/09/2024 / SAM | V14673 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul | A0214960 | 12/06/2025 | 06/06/2025 / SAM | 12/09/2024 / SAM | V14675 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml | A02110618 | 02/08/2026 | 08/08/2025 / SAM | 12/17/2024 / SAM | V14702 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml | A02110618 | 02/08/2026 | 08/08/2025 / SAM | 12/17/2024 / SAM | V14705 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml | A02110618 | 02/08/2026 | 08/08/2025 / SAM | 12/17/2024 / SAM | V14716 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml | A0216826 | 02/08/2026 | 08/08/2025 / SAM | 12/17/2024 / SAM | V14745 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml | A0216826 | 02/08/2026 | 08/08/2025 / SAM | 12/17/2024 / SAM | V14751 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS | A0220563 | 12/23/2025 | 06/23/2025 / SAM | 01/08/2025 / SAM | V14795 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS | A0220471 | 02/08/2026 | 08/08/2025 / SAM | 01/08/2025 / SAM | V14806 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS | A0220471 | 02/08/2026 | 08/08/2025 / SAM | 01/08/2025 / SAM | V14807 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM | A0217535 | 11/12/2025 | 05/12/2025 / SAM | 01/21/2025 / SAM | V14843 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2] | A0223904 | 07/29/2026 | 07/29/2025 / SAM | 03/24/2025 / SAM | V14906 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA9077-02 / Methanol, Purge/Trap (cs=6x1L) | 24G0262002 | 11/12/2025 | 05/12/2025 / SAM | 05/09/2025 / SAM | V14921 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA9077-02 / Methanol, Purge/Trap (cs=6x1L) | 24G0262002 | 12/06/2025 | 06/06/2025 / SAM | 05/09/2025 / SAM | V14929 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL | A0220531 | 12/23/2025 | 06/23/2025 / SAM | 05/19/2025 / SAM | V14977 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 071625 | 08/16/2025 | 07/17/2025 / SAM | 07/17/2025 / SAM | V15050 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 071625 | 08/16/2025 | 07/17/2025 / SAM | 07/17/2025 / SAM | V15051 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 071625 | 08/16/2025 | 07/17/2025 / SAM | 07/17/2025 / SAM | V15052 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 071525 | 08/15/2025 | 07/17/2025 / SAM | 07/17/2025 / SAM | V15055 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 071525 | 08/15/2025 | 07/17/2025 / SAM | 07/17/2025 / SAM | V15056 |

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 081325 | 09/13/2025 | 08/14/2025 / SAM | 08/14/2025 / SAM | V15057 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 081325 | 09/13/2025 | 08/14/2025 / SAM | 08/14/2025 / SAM | V15058 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 081325 | 09/13/2025 | 08/14/2025 / SAM | 08/14/2025 / SAM | V15059 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | DIW / DI Water | Daily Lab-Certified | 07/03/2029 | 07/03/2024 / Iwona | 07/03/2024 / Iwona | W3112 |

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 2310762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($CH_3OH$) (by GC, corrected for water) | ≥ 99.9 % | 100.0 % |
| Residue after Evaporation | ≤ 1.0 ppm | 0.5 ppm |
| Titrable Acid (µeq/g) | ≤ 0.3 | 0.2 |
| Titrable Base (µeq/g) | ≤ 0.10 | 0.01 |
| Water (by KF, coulometric) | ≤ 0.08 % | < 0.01 % |
| Volatile Organic Trace Analysis – Below EPA 8260B CRQL | Conforms | Conforms |

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Methanol
ULTRA RESI-ANALYZED
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avantor™ | J.T.Baker®

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For Laboratory,Research,or Manufacturing Use
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Ken Koehnlein
Sr. Manager, Quality Assurance

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

12

ANAB ISO 17034 Accredit
AR-1539 Certificate Number
https://Absolutestandards.cc

## CERTIFIED WEIGHT REPORT

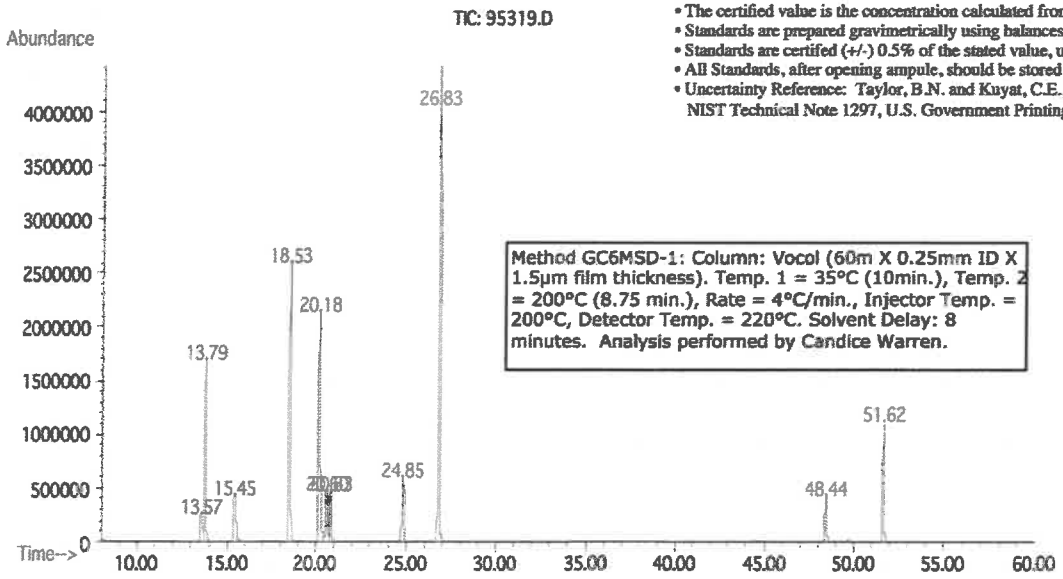
**Part Number:** 95319
**Lot Number:** 011624
**Description:** Revised Additions Mix
11 components
**Expiration Date:** 011627
**Recommended Storage:** Refrigerate (4 °C)
**Nominal Concentration (µg/mL):** Varied
**NIST Test ID#:** 6UTB

**Solvent(s):** Methanol **Lot#** EH471-US

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

| Formulated By: | Prashant Chauhan | 011624 DATE |
|---|---|---|
| Reviewed By: | Pedro L. Rentas | 011624 DATE |

| | Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | Acrylonitrile | 7 | 4718CK | 10000 | 99 | 0.2 | 1.01035 | 1.01080 | 10004.4 | 40.6 | 107-13-1 | N/A | ori-rat 78 mg/kg |
| 2. | 1-Chlorobutane | 1072 | MKCM5711 | 2000 | 99.99 | 0.2 | 0.20007 | 0.20035 | 2002.8 | 8.1 | 109-69-3 | N/A | ori-rat 2670mg/kg |
| 3. | Cyclohexane | 1023 | 28930 | 2000 | 99 | 0.2 | 0.20207 | 0.20222 | 2001.5 | 8.2 | 110-82-7 | 300 ppm (1050mg/m3/8H) | ori-rat 12705mg/kg |
| 4. | Di-isopropyl ether (DIPE) | 987 | 00412MX | 2000 | 99 | 0.2 | 0.20207 | 0.20227 | 2002.0 | 8.2 | 108-20-3 | 500 ppm (2100mg/m3/8H) | ori-rat 8470mg/kg |
| 5. | 1,4-Dioxane | 373 | 03853KE | 40000 | 99 | 0.2 | 4.04142 | 4.04213 | 40007.0 | 162.5 | 123-91-1 | 25 ppm (90mg/m3/8H)(skin) | ori-mus 5700mg/kg |
| 6. | Hexachloroethane | 199 | 12604HBV | 2000 | 99 | 0.2 | 0.20207 | 0.20221 | 2001.4 | 8.2 | 67-72-1 | 1 ppm (10mg/m3/8H)(skin) | ori-gpg 4970mg/kg |
| 7. | Methylcyclohexane | 1627 | SHBG0199V | 2000 | 99 | 0.2 | 0.20207 | 0.20230 | 2002.3 | 8.2 | 108-87-2 | N/A | ori-mus 2250mg/kg |
| 8. | Methyl tert-butyl ether (MTBE) | 209 | 21880 | 2000 | 99 | 0.2 | 0.20207 | 0.20227 | 2002.0 | 8.2 | 1634-04-4 | N/A | ori-rat 4g/kg |
| 9. | Propionitrile | 349 | 1395468 | 20000 | 99 | 0.2 | 2.02071 | 2.02150 | 20007.8 | 81.3 | 107-12-0 | N/A | ori-rat 39mg/kg |
| 10. | Tetrahydrofuran | 380 | SHBH8330 | 10000 | 99.9 | 0.2 | 1.00125 | 1.00200 | 10007.5 | 40.3 | 109-99-9 | 20 ppm (590mg/m3/8H) | ori-rat 1650mg/kg |
| 11. | 1,2,3,4-Tetramethylbenzene | 491 | AP01 | 2000 | 93 | 0.2 | 0.21511 | 0.21522 | 2001.0 | 8.7 | 488-23-3 | N/A | ori-rat 6408mg/kg |




- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Method GC6MSD-1: Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Temp. 1 = 35°C (10min.), Temp. 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Solvent Delay: 8 minutes. Analysis performed by Candice Warren.

| Name | MSD RT (min.) |
|---|---|
| Methyl tert-butyl ether (MTBE) | 13.56 |
| Acrylonitrile | 13.79 |
| Di-isopropyl ether | 15.44 |
| Propionitrile | 18.53 |
| Tetrahydrofuran | 20.17 |
| Cyclohexane | 20.58 |
| 1-Chlorobutane | 20.83 |
| Methylcyclohexane | 24.84 |
| 1,4-Dioxane | 26.84 |
| Hexachloroethane | 48.44 |
| 1,2,3,4-Tetramethylbenzene | 51.62 |

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021524
Description: Universal VOA Megamix
69 components
Expiration Date: 021527
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 8UTB

Solvent(s): Methanol Lot# EG359-USQ12

Formulated By: Mario Luis 021524 DATE

Reviewed By: Pedro L. Rentas 021524 DATE

5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

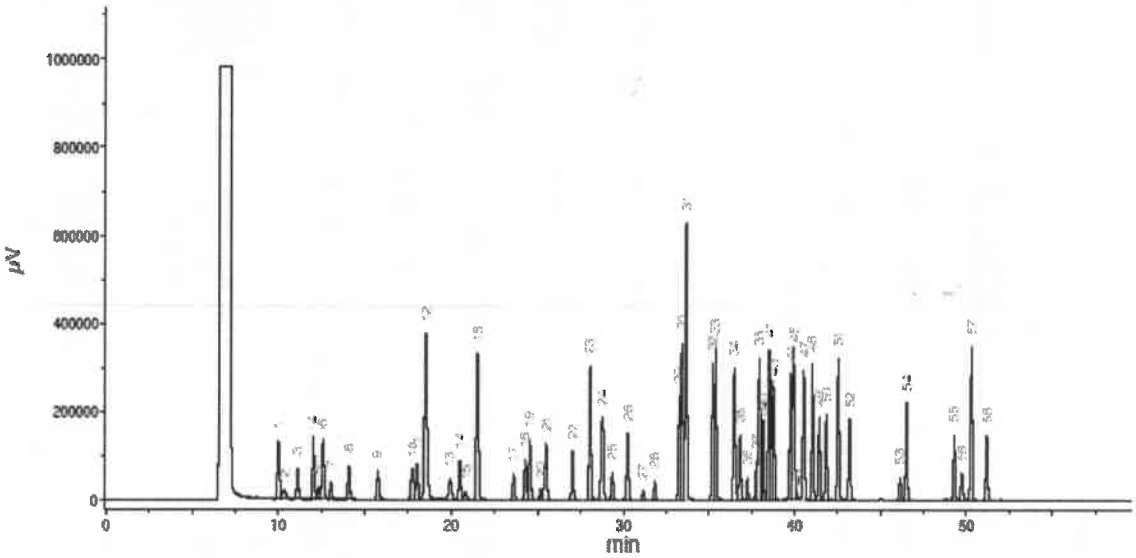
| | Compound | (RM#) Part Number | Lot Number | Dil. Factor | Initial Vol. (mL) | Initial Conc.(ug/mL) | Nominal Conc (µg/mL) | Purity (%) | Purity Uncertainty | Uncertainty Pipette (mL) | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | Acetonitrile | (0324) | 021644 | NA | NA | NA | 2000 | 99.99 | 0.2 | NA | 0.20007 | 0.20022 | 2001.5 | 8.1 | 75-05-8 | 40 ppm (70mg/m3/8H) | orl-rat 2460mg/kg |
| 2. | Allyl chloride (3-Chloropropene) | (0325) | 102396 | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20222 | 2001.5 | 8.2 | 107-05-1 | 1 ppm (3mg/m3/8H) | orl-rat 700mg/kg |
| 3. | Carbon disulphide | (0060) | MKCR8561 | NA | NA | NA | 2000 | 99.99 | 0.2 | NA | 0.20007 | 0.20020 | 2001.3 | 8.1 | 75-15-0 | 4 ppm (12mg/m3) (skin) | orl-rat 1200mg/kg |
| 4. | cis-1,4-Dichloro-2-butene | (1196) | 14718EF | NA | NA | NA | 2000 | 95 | 0.2 | NA | 0.21058 | 0.21060 | 2000.2 | 8.5 | 1476-11-5 | N/A | N/A |
| 5. | trans-1,4-Dichloro-2-butene | (0486) | MKBP6041V | NA | NA | NA | 2000 | 96.5 | 0.2 | NA | 0.20731 | 0.20734 | 2000.3 | 8.4 | 110-57-6 | N/A | N/A |
| 6. | Diethyl ether | (0153) | IK18CAS000( | NA | NA | NA | 2000 | 99.9 | 0.2 | NA | 0.20025 | 0.20042 | 2001.7 | 8.1 | 60-29-7 | N/A | N/A |
| 7. | Ethyl methacrylate | (0381) | 06126PX | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20231 | 2002.4 | 8.2 | 97-63-2 | N/A | orl-rat 14800mg/kg |
| 8. | Iodomethane | (0489) | SHBF8718V | NA | NA | NA | 2000 | 99.5 | 0.2 | NA | 0.20106 | 0.20118 | 2001.2 | 8.1 | 74-88-4 | 5 ppm(28mg/m3/8H)(skin) | orl-rat 76mg/kg |
| 9. | 2-Methyl-1-propanol | (0445) | 15241EB | NA | NA | NA | 2000 | 99.5 | 0.2 | NA | 0.20106 | 0.20120 | 2001.4 | 8.1 | 78-83-1 | 50 ppm (150mg/m3/8H) | orl-rat 2460mg/kg |
| 10. | Methacrylonitrile | (0442) | 00427ET | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20209 | 2000.2 | 8.2 | 126-98-7 | 1 ppm (3mg/m3/8H)(skin) | orl-rat 120mg/kg |
| 11. | Methyl acrylate | (1075) | SHBK0679 | NA | NA | NA | 2000 | 99.9 | 0.2 | NA | 0.20025 | 0.20042 | 2001.7 | 8.1 | 96-33-3 | 10 ppm(35mg/m3/8H)(skin) | orl-rat 277mg/kg |
| 12. | Methyl methacrylate | (0404) | MKBW5137V | NA | NA | NA | 2000 | 99.9 | 0.2 | NA | 0.20025 | 0.20030 | 2000.5 | 8.1 | 80-62-6 | 100 ppm (410mg/m3/8H) | orl-rat 7872mg/kg |
| 13. | Nitrobenzene | (0228) | 01213TV | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20230 | 2002.3 | 8.2 | 98-95-3 | 1 ppm (5mg/m3/8H)(skin) | orl-rat 780mg/kg |
| 14. | 2-Nitropropane | (0461) | 14002JX | NA | NA | NA | 2000 | 97.3 | 0.2 | NA | 0.20560 | 0.20570 | 2001.0 | 8.3 | 79-46-9 | 10 ppm (35mg/m3/8H) | orl-rat 720mg/kg |
| 15. | Pentachloroethane | (0450) | HGA01 | NA | NA | NA | 2000 | 98 | 0.2 | NA | 0.20413 | 0.20415 | 2000.2 | 8.3 | 76-01-7 | N/A | N/A |
| 16. | 1,1,2-Trichlorotrifluoroethane | (0474) | 18930 | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20210 | 2000.3 | 8.2 | 76-13-1 | 1000 ppm (7600mg/m3/8H) | orl-rat 43g/kg |
| 17. | Bromodichloromethane | 35171 | 101623 | 0.05 | 5.00 | 40001.7 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 75-27-4 | N/A | orl-rat 916mg/kg |
| 18. | Dibromochloromethane | 35171 | 101623 | 0.05 | 5.00 | 40002.1 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 124-48-1 | N/A | orl-rat 848mg/kg |
| 19. | cis-1,2-Dichloroethene | 35171 | 101623 | 0.05 | 5.00 | 40003.1 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 156-59-2 | N/A | N/A |
| 20. | trans-1,2-Dichloroethene | 35171 | 101623 | 0.05 | 5.00 | 40002.4 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 156-60-5 | N/A | orl-rat 1235mg/kg |
| 21. | Methylene chloride | 35171 | 101623 | 0.05 | 5.00 | 40002.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 75-09-2 | 500 ppm | orl-rat 820mg/kg |
| 22. | 1,1-Dichloroethene | 32251 | 102023 | 0.10 | 10.00 | 20001.6 | 2000 | NA | NA | 0.042 | NA | NA | 1999.7 | 20.4 | 75-35-4 | 1 ppm (4mg/m3/8H) | orl-rat 200mg/kg |
| 23. | Bromoform | 95321 | 020724 | 0.10 | 10.00 | 20003.2 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 75-25-2 | 0.5 ppm (5mg/m3) (skin) | orl-rat 933mg/kg |
| 24. | Carbon tetrachloride | 95321 | 020724 | 0.10 | 10.00 | 20003.4 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.4 | 56-23-5 | 2 ppm (12.6mg/m3/8H) | orl-rat 2350mg/kg |
| 25. | Chloroform | 95321 | 020724 | 0.10 | 10.00 | 20024.0 | 2000 | NA | NA | 0.042 | NA | NA | 2001.9 | 20.5 | 67-66-3 | 50 ppm (240mg/m3) (CL) | orl-rat 908mg/kg |
| 26. | Dibromomethane | 95321 | 020724 | 0.10 | 10.00 | 20002.9 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 74-95-3 | N/A | orl-rat 108mg/kg |
| 27. | 1,1-Dichloroethane | 95321 | 020724 | 0.10 | 10.00 | 20003.4 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 75-34-3 | 100 ppm | orl-rat 725mg/kg |
| 28. | 2,2-Dichloropropane | 95321 | 020724 | 0.10 | 10.00 | 20003.4 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.4 | 594-20-7 | N/A | N/A |
| 29. | Tetrachloroethene | 95321 | 020724 | 0.10 | 10.00 | 20201.1 | 2000 | NA | NA | 0.042 | NA | NA | 2018.6 | 20.6 | 127-18-4 | 25 ppm (170mg/m3/8H)(final) | orl-rat 2629mg/kg |
| 30. | 1,1,1-Trichloroethane | 95321 | 020724 | 0.10 | 10.00 | 20003.0 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 71-55-6 | 350 ppm (1900mg/m3/8H) | orl-rat 10300mg/kg |
| 31. | 1,2-Dibromo-3-chloropropane | 35161 | 112322 | 0.05 | 5.00 | 40016.5 | 2000 | NA | NA | 0.017 | NA | NA | 2000.3 | 22.9 | 96-12-8 | 0.001 ppm | orl-rat 170mg/kg |
| 32. | 1,2-Dibromoethane | 35161 | 112322 | 0.05 | 5.00 | 40024.8 | 2000 | NA | NA | 0.017 | NA | NA | 2000.7 | 22.9 | 106-93-4 | 20 ppm (8H) | orl-rat 108mg/kg |
| 33. | 1,2-Dichloroethane | 35161 | 112322 | 0.05 | 5.00 | 40018.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.4 | 22.9 | 107-06-2 | 50 ppm (8H) | orl-rat 670mg/kg |
| 34. | 1,2-Dichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40051.0 | 2000 | NA | NA | 0.017 | NA | NA | 2002.0 | 22.9 | 78-87-5 | 75 ppm (350mg/m3/8H) | orl-rat 1947mg/kg |
| 35. | 1,3-Dichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40005.9 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 142-28-9 | N/A | unr-mus 3600mg/kg |
| 36. | 1,1-Dichloropropene | 35161 | 112322 | 0.05 | 5.00 | 40012.1 | 2000 | NA | NA | 0.017 | NA | NA | 2000.1 | 29.7 | 563-58-6 | N/A | N/A |
| 37. | cis-1,3-Dichloropropene | 35161 | 112322 | 0.05 | 5.00 | 40010.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.0 | 23.0 | 10061-01-5 | N/A | N/A |
| 38. | trans-1,3-Dichloropropene | 35161 | 112322 | 0.05 | 5.00 | 40017.6 | 2000 | NA | NA | 0.017 | NA | NA | 2000.4 | 23.0 | 10061-02-6 | N/A | N/A |
| 39. | Hexachloro-1,3-butadiene | 35161 | 112322 | 0.05 | 5.00 | 40021.9 | 2000 | NA | NA | 0.017 | NA | NA | 2000.6 | 29.7 | 87-68-3 | 0.02 ppm (0.24mg/m3/8H) | orl-rat 82mg/kg |
| 40. | 1,1,1,2-Tetrachloroethane | 35161 | 112322 | 0.05 | 5.00 | 40011.9 | 2000 | NA | NA | 0.017 | NA | NA | 2000.1 | 22.9 | 630-20-6 | N/A | orl-rat 670mg/kg |
| 41. | 1,1,2,2-Tetrachloroethane | 35161 | 112322 | 0.05 | 5.00 | 40007.5 | 2000 | NA | NA | 0.017 | NA | NA | 1999.9 | 22.9 | 79-34-5 | 5 ppm (35mg/m3/8H)(skin) | orl-rat 800mg/kg |
| 42. | 1,1,2-Trichloroethane | 35161 | 112322 | 0.05 | 5.00 | 40006.6 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 23.0 | 79-00-5 | 10 ppm (45mg/m3/8H)(skin) | orl-rat 836mg/kg |
| 43. | Trichloroethene | 35161 | 112322 | 0.05 | 5.00 | 40029.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.9 | 22.9 | 79-01-6 | 50 ppm (270mg/m3/8H) | orl-mus 2402mg/kg |
| 44. | 1,2,3-Trichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40007.5 | 2000 | NA | NA | 0.017 | NA | NA | 1999.9 | 22.9 | 96-18-4 | 10 ppm (60mg/m3/8H) | orl-rat 149.8mg/kg |
| 45. | Benzene | 35162 | 050823 | 0.05 | 5.00 | 40005.0 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 71-43-2 | 1 ppm | orl-rat 4894mg/kg |
| 46. | Bromobenzene | 35162 | 050823 | 0.05 | 5.00 | 40006.9 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-86-1 | N/A | orl-rat 2699mg/kg |
| 47. | n-Butyl benzene | 35162 | 050823 | 0.05 | 5.00 | 40003.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 104-51-8 | N/A | N/A |
| 48. | Ethyl benzene | 35162 | 050823 | 0.05 | 5.00 | 40004.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 100-41-4 | 100 ppm (435mg/m3/8H) | orl-rat >2000mg/kg |
| 49. | p-Isopropyl toluene | 35162 | 050823 | 0.05 | 5.00 | 40005.6 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 99-87-6 | N/A | orl-rat 4750mg/kg |
| 50. | Naphthalene | 35162 | 050823 | 0.05 | 5.00 | 40006.2 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 91-20-3 | 10 ppm (50mg/m3/8H) | orl-rat 490mg/kg |
| 51. | Styrene | 35162 | 050823 | 0.05 | 5.00 | 40004.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 100-42-5 | 100 ppm | orl-rat 5000mg/kg |
| 52. | Toluene | 35162 | 050823 | 0.05 | 5.00 | 40006.2 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-88-3 | 200 ppm | orl-rat 5000mg/kg |
| 53. | 1,2,3-Trichlorobenzene | 35162 | 050823 | 0.05 | 5.00 | 40003.1 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 87-61-6 | N/A | ipr-mus 1260mg/kg |
| 54. | 1,2,4-Trichlorobenzene | 35162 | 050823 | 0.05 | 5.00 | 40006.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 120-82-1 | 5 ppm (CL) (40mg/m3) | orl-rat 756mg/kg |
| 55. | 1,2,4-Trimethylbenzene | 35162 | 050823 | 0.05 | 5.00 | 40001.6 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 95-63-6 | N/A | orl-rat 5g/kg |
| 56. | 1,3,5-Trimethylbenzene | 35162 | 050823 | 0.05 | 5.00 | 40006.7 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-67-8 | N/A | orl-rat 5000mg/kg |
| 57. | m-Xylene | 35162 | 050823 | 0.05 | 5.00 | 40005.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-38-3 | 100 ppm (435mg/m3/8H) | orl-rat 5g/kg |
| 58. | tert-Butyl benzene | 35163 | 101923 | 0.05 | 5.00 | 40001.2 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 98-06-6 | N/A | N/A |
| 59. | sec-Butyl benzene | 35163 | 101923 | 0.05 | 5.00 | 40002.4 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 135-98-8 | N/A | orl-rat 2240mg/kg |
| 60. | Chlorobenzene | 35163 | 101923 | 0.05 | 5.00 | 40003.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 108-90-7 | 75 ppm (350mg/m3/8H) | orl-rat 2290mg/kg |
| 61. | 2-Chlorotoluene | 35163 | 101923 | 0.05 | 5.00 | 40000.3 | 2000 | NA | NA | 0.017 | NA | NA | 1999.5 | 22.9 | 95-49-8 | 50 ppm (250mg/m3/8H) | orl-rat 3900mg/kg |
| 62. | 4-Chlorotoluene | 35163 | 101923 | 0.05 | 5.00 | 40003.3 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 106-43-4 | N/A | orl-rat 2100mg/kg |
| 63. | 1,2-Dichlorobenzene | 35163 | 101923 | 0.05 | 5.00 | 40003.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 95-50-1 | 50 ppm (300mg/m3) (CL) | orl-rat 500mg/kg |
| 64. | 1,3-Dichlorobenzene | 35163 | 101923 | 0.05 | 5.00 | 40001.7 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 541-73-1 | N/A | ipr-mus 1062mg/kg |
| 65. | 1,4-Dichlorobenzene | 35163 | 101923 | 0.05 | 5.00 | 40001.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 106-46-7 | 75 ppm (450mg/m3/8H) | orl-rat 500mg/kg |
| 66. | Isopropylbenzene | 35163 | 101923 | 0.05 | 5.00 | 40000.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.5 | 22.9 | 98-82-8 | 50 ppm (245mg/m3/8H) | orl-rat 1400mg/kg |
| 67. | n-Propylbenzene | 35163 | 101923 | 0.05 | 5.00 | 40003.4 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 23.0 | 103-65-1 | N/A | orl-rat 6040mg/kg |
| 68. | o-Xylene | 35163 | 101923 | 0.05 | 5.00 | 40040.8 | 2000 | NA | NA | 0.017 | NA | NA | 2001.5 | 23.0 | 95-47-6 | 100 ppm (435mg/m3/8H) | ipr-mus 1364mg/kg |
| 69. | p-Xylene | 35163 | 101923 | 0.05 | 5.00 | 40000.6 | 2000 | NA | NA | 0.017 | NA | NA | 1999.5 | 22.9 | 106-42-3 | 100 ppm (435mg/m3/8H) | orl-rat 5g/kg |

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty References: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

**Run 17, "P95317 L021524 [2000µg/mL in MeOH]"**

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 10:04:27 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

**Comments**
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3




| Peak # | Name | FID RT (min.) |
|---|---|---|
| 1 | Ether | 9.97 |
| 2 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 10.33 |
| 3 | 1,1-Dichloroethene | 11.10 |
| 4 | Acetonitrile | 12.00 |
| 5 | Iodomethane | 12.31 |
| 6 | Allyl chloride | 12.56 |
| 7 | Carbon disulfide/Methylene chloride | 13.04 |
| 8 | trans-1,2-Dichloroethene | 14.07 |
| 9 | 1,1-Dichloroethane | 15.74 |
| 10 | 2,2-Dichloropropane | 17.74 |
| 11 | cis-1,2-Dichloroethene | 18.00 |
| 12 | Methacrylonitrile/Methyl acrylate/Chloroform | 18.49 |
| 13 | Isobutanol/1,1,1-Trichloroethane | 19.91 |
| 14 | 1,1-Dichloropropene | 20.46 |
| 15 | Carbon tetrachloride | 20.79 |
| 16 | Benzene/1,2-Dichloroethane | 21.48 |
| 17 | Trichloroethene | 23.58 |
| 18 | 1,2-Dichloropropane | 24.26 |
| 19 | Methyl methacrylate | 24.52 |
| 20 | Bromodichloromethane | 25.13 |
| 21 | Dibromomethane/2-Nitropropane | 25.46 |
| 22 | cis-1,3-Dichloropropene | 27.02 |
| 23 | Toluene | 28.05 |
| 24 | Ethyl methacrylate/trans-1,3-Dichloropropene | 28.73 |
| 25 | 1,1,2-Trichloroethane | 29.34 |
| 26 | Tetrachloroethene/1,3-Dichloropropene | 30.24 |
| 27 | Dibromochloromethane | 31.16 |
| 28 | 1,2-Dibromoethane | 31.84 |
| 29 | Chlorobenzene | 33.26 |
| 30 | Ethylbenzene/1,1,1,2-Tetrachloroethane | 33.40 |
| 31 | m-Xylene/p-Xylene | 33.66 |
| 32 | o-Xylene | 33.22 |
| 33 | Styrene | 35.39 |
| 34 | Isopropylbenzene/Bromoform | 36.48 |
| 35 | cis-1,4-Dichloro-2-butene | 36.80 |
| 36 | 1,1,2,2-Tetrachloroethane | 37.23 |
| 37 | 1,2,3-Trichloropropane | 37.77 |
| 38 | n-Propylbenzene | 37.92 |
| 39 | trans-1,4-Dichloro-2-butene | 38.05 |
| 40 | Bromobenzene | 38.14 |
| 41 | 1,3,5-Trimethylbenzene | 38.50 |
| 42 | 2-Chlorotoluene | 38.62 |
| 43 | 4-Chlorotoluene | 38.77 |
| 44 | tert-Butylbenzene | 39.76 |
| 45 | 1,2,4-Trimethylbenzene | 39.91 |
| 46 | Pentachloroethane | 40.17 |
| 47 | sec-Butylbenzene | 40.52 |
| 48 | p-Isopropyltoluene | 41.02 |
| 49 | 1,3-Dichlorobenzene | 41.42 |
| 50 | 1,4-Dichlorobenzene | 41.83 |
| 51 | n-Butylbenzene | 42.52 |
| 52 | 1,2-Dichlorobenzene | 43.10 |
| 53 | 1,2-Dibromo-3-chloropropane | 46.12 |
| 54 | Nitrobenzene | 46.48 |
| 55 | 1,2,4-Trichlorobenzene | 48.26 |
| 56 | Hexachlorobutadiene | 49.22 |
| 57 | Naphthalene | 50.26 |
| 58 | 1,2,3-Trichlorobenzene | 51.16 |

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CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Lot#
Methanol EG359-USQ12

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

Formulated By: Prashant Chauhan 021624 DATE

Reviewed By: Pedro L. Rentas 021624 DATE

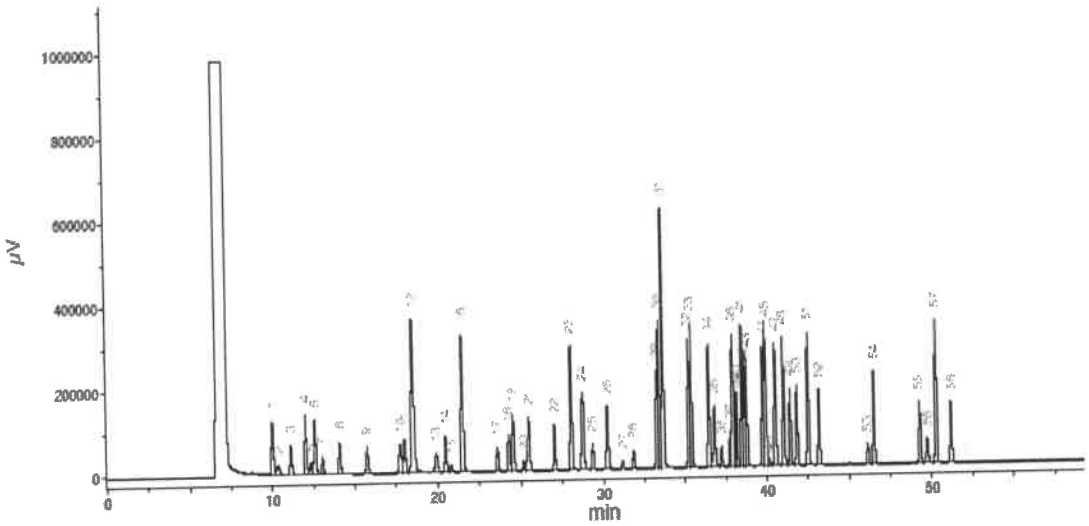
| | Compound | (RM#) Part Number | Lot Number | Dil. Factor | Initial Vol. (mL) | Initial Conc.(ug/mL) | Nominal Conc (µg/mL) | Purity (%) | Purity Uncertainty | Uncertainty Pipette (mL) | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | Acetonitrile | (0324) | 021644 | NA | NA | NA | 2000 | 99.99 | 0.2 | NA | 0.20007 | 0.20020 | 2001.3 | 8.1 | 75-05-8 | 40 ppm (70mg/m3/8H) | orl-rat 2460mg/kg |
| 2. | Allyl chloride (3-Chloropropene) | (0325) | 102396 | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20221 | 2001.4 | 8.2 | 107-05-1 | 1 ppm (3mg/m3/8H) | orl-rat 700mg/kg |
| 3. | Carbon disulphide | (0060) | MKCR8561 | NA | NA | NA | 2000 | 99.99 | 0.2 | NA | 0.20007 | 0.20023 | 2001.6 | 8.1 | 75-15-0 | 4 ppm (12mg/m3) (skin) | orl-rat 1200mg/kg |
| 4. | cis-1,4-Dichloro-2-butene | (1196) | 14718EF | NA | NA | NA | 2000 | 95 | 0.2 | NA | 0.21058 | 0.21069 | 2001.1 | 8.5 | 1476-11-5 | N/A | N/A |
| 5. | trans-1,4-Dichloro-2-butene | (0466) | MKBP6041V | NA | NA | NA | 2000 | 96.5 | 0.2 | NA | 0.20731 | 0.20748 | 2001.7 | 8.4 | 110-57-6 | N/A | N/A |
| 6. | Diethyl ether | (0153) | IK18CAS0000 | NA | NA | NA | 2000 | 99.9 | 0.2 | NA | 0.20025 | 0.20040 | 2001.5 | 8.1 | 60-29-7 | N/A | N/A |
| 7. | Ethyl methacrylate | (0381) | 06128PX | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20230 | 2002.3 | 8.2 | 97-63-2 | N/A | orl-rat 14800mg/kg |
| 8. | Iodomethane | (0489) | SHBF8718V | NA | NA | NA | 2000 | 99.5 | 0.2 | NA | 0.20106 | 0.20121 | 2001.5 | 8.2 | 74-88-4 | 5 ppm(28mg/m3/8H)(skin) | orl-rat 76mg/kg |
| 9. | 2-Methyl-1-propanol | (0445) | 15241EB | NA | NA | NA | 2000 | 99.5 | 0.2 | NA | 0.20106 | 0.20120 | 2001.4 | 8.1 | 78-83-1 | 50 ppm (150mg/m3/8H) | orl-rat 2460mg/kg |
| 10. | Methacrylonitrile | (0442) | 00427ET | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20221 | 2001.4 | 8.2 | 126-98-7 | 1 ppm (3mg/m3/8H)(skin) | orl-rat 120mg/kg |
| 11. | Methyl acrylate | (1075) | SHBK0679 | NA | NA | NA | 2000 | 99.9 | 0.2 | NA | 0.20025 | 0.20040 | 2001.5 | 8.1 | 96-33-3 | 10 ppm(35mg/m3/8H)(skin) | orl-rat 277mg/kg |
| 12. | Methyl methacrylate | (0404) | MKBW5137V | NA | NA | NA | 2000 | 99.9 | 0.2 | NA | 0.20025 | 0.20041 | 2001.6 | 8.1 | 80-62-6 | 100 ppm (410mg/m3/8H) | orl-rat 7872mg/kg |
| 13. | Nitrobenzene | (0228) | 01213TV | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20220 | 2001.3 | 8.2 | 98-95-3 | 1 ppm (5mg/m3/8H)(skin) | orl-rat 780mg/kg |
| 14. | 2-Nitropropane | (0461) | 14002JX | NA | NA | NA | 2000 | 97.3 | 0.2 | NA | 0.20560 | 0.20577 | 2001.6 | 8.3 | 79-46-9 | 10 ppm (35mg/m3/8H) | orl-rat 720mg/kg |
| 15. | Pentachloroethane | (0450) | HGA01 | NA | NA | NA | 2000 | 98 | 0.2 | NA | 0.20413 | 0.20430 | 2001.6 | 8.3 | 76-01-7 | N/A | N/A |
| 16. | 1,1,2-Trichlorotrifluoroethane | (0474) | 18930 | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20225 | 2001.8 | 8.2 | 76-13-1 | 1000 ppm (7600mg/m3/8H) | orl-rat 43g/kg |
| 17. | Bromodichloromethane | 35171 | 101623 | 0.05 | 5.00 | 40001.7 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 75-27-4 | N/A | orl-rat 916mg/kg |
| 18. | Dibromochloromethane | 35171 | 101623 | 0.05 | 5.00 | 40002.1 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 124-48-1 | N/A | orl-rat 848mg/kg |
| 19. | cis-1,2-Dichloroethene | 35171 | 101623 | 0.05 | 5.00 | 40003.1 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 156-59-2 | N/A | N/A |
| 20. | trans-1,2-Dichloroethene | 35171 | 101623 | 0.05 | 5.00 | 40002.4 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 156-60-5 | N/A | orl-rat 1235mg/kg |
| 21. | Methylene chloride | 35171 | 101623 | 0.05 | 5.00 | 40002.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 75-09-2 | 500 ppm | orl-rat 820mg/kg |
| 22. | 1,1-Dichloroethene | 32251 | 102023 | 0.10 | 10.00 | 20001.6 | 2000 | NA | NA | 0.042 | NA | NA | 1999.7 | 20.4 | 75-35-4 | 1 ppm (4mg/m3/8H) | orl-rat 200mg/kg |
| 23. | Bromoform | 95321 | 020724 | 0.10 | 10.00 | 20003.2 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 75-25-2 | 0.5 ppm (5mg/m3) (skin) | orl-rat 933mg/kg |
| 24. | Carbon tetrachloride | 95321 | 020724 | 0.10 | 10.00 | 20003.4 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.4 | 56-23-5 | 2 ppm (12.6mg/m3/8H) | orl-rat 2350mg/kg |
| 25. | Chloroform | 95321 | 020724 | 0.10 | 10.00 | 20024.0 | 2000 | NA | NA | 0.042 | NA | NA | 2001.9 | 20.5 | 67-66-3 | 50 ppm (240mg/m3) (CL) | orl-rat 908mg/kg |
| 26. | Dibromomethane | 95321 | 020724 | 0.10 | 10.00 | 20002.9 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 74-95-3 | N/A | orl-rat 108mg/kg |
| 27. | 1,1-Dichloroethane | 95321 | 020724 | 0.10 | 10.00 | 20003.4 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 75-34-3 | 100 ppm | orl-rat 725mg/kg |
| 28. | 2,2-Dichloropropane | 95321 | 020724 | 0.10 | 10.00 | 20003.4 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.4 | 594-20-7 | N/A | N/A |
| 29. | Tetrachloroethene | 95321 | 020724 | 0.10 | 10.00 | 20201.1 | 2000 | NA | NA | 0.042 | NA | NA | 2019.6 | 20.8 | 127-18-4 | 25 ppm (170mg/m3/8H)(final) | orl-rat 2629mg/kg |
| 30. | 1,1,1-Trichloroethane | 95321 | 020724 | 0.10 | 10.00 | 20003.0 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 71-55-6 | 350 ppm (1900mg/m3/8H) | orl-rat 10300mg/kg |
| 31. | 1,2-Dibromo-3-chloropropane | 35161 | 112322 | 0.05 | 5.00 | 40016.5 | 2000 | NA | NA | 0.017 | NA | NA | 2000.3 | 22.9 | 96-12-8 | 0.001 ppm | orl-rat 170mg/kg |
| 32. | 1,2-Dibromoethane | 35161 | 112322 | 0.05 | 5.00 | 40024.8 | 2000 | NA | NA | 0.017 | NA | NA | 2000.7 | 22.9 | 106-93-4 | 20 ppm (8H) | orl-rat 108mg/kg |
| 33. | 1,2-Dichloroethane | 35161 | 112322 | 0.05 | 5.00 | 40018.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.4 | 22.9 | 107-06-2 | 50 ppm (8H) | orl-rat 670mg/kg |
| 34. | 1,2-Dichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40051.0 | 2000 | NA | NA | 0.017 | NA | NA | 2002.0 | 22.9 | 78-87-5 | 75 ppm (350mg/m3/8H) | orl-rat 1947mg/kg |
| 35. | 1,3-Dichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40005.9 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 142-28-9 | N/A | unr-mus 3600mg/kg |
| 36. | 1,1-Dichloropropene | 35161 | 112322 | 0.05 | 5.00 | 40012.1 | 2000 | NA | NA | 0.017 | NA | NA | 2000.1 | 29.7 | 563-58-6 | N/A | N/A |
| 37. | cis-1,3-Dichloropropene | 35161 | 112322 | 0.05 | 5.00 | 40010.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.0 | 23.0 | 10061-01-5 | N/A | N/A |
| 38. | trans-1,3-Dichloropropene | 35161 | 112322 | 0.05 | 5.00 | 40017.6 | 2000 | NA | NA | 0.017 | NA | NA | 2000.4 | 23.0 | 10061-02-6 | N/A | N/A |
| 39. | Hexachloro-1,3-butadiene | 35161 | 112322 | 0.05 | 5.00 | 40021.9 | 2000 | NA | NA | 0.017 | NA | NA | 2000.6 | 29.7 | 87-68-3 | 0.02 ppm (0.24mg/m3/8H) | orl-rat 82mg/kg |
| 40. | 1,1,1,2-Tetrachloroethane | 35161 | 112322 | 0.05 | 5.00 | 40011.9 | 2000 | NA | NA | 0.017 | NA | NA | 2000.1 | 22.9 | 630-20-6 | N/A | orl-rat 670mg/kg |
| 41. | 1,1,2,2-Tetrachloroethane | 35161 | 112322 | 0.05 | 5.00 | 40007.5 | 2000 | NA | NA | 0.017 | NA | NA | 1999.9 | 22.9 | 79-34-5 | 5 ppm (35mg/m3/8H)(skin) | orl-rat 800mg/kg |
| 42. | 1,1,2-Trichloroethane | 35161 | 112322 | 0.05 | 5.00 | 40006.6 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 23.0 | 79-00-5 | 10 ppm (45mg/m3/8H)(skin) | orl-rat 836mg/kg |
| 43. | Trichloroethene | 35161 | 112322 | 0.05 | 5.00 | 40029.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.9 | 22.9 | 79-01-6 | 50 ppm (270mg/m3/8H) | orl-mus 2402mg/kg |
| 44. | 1,2,3-Trichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40007.5 | 2000 | NA | NA | 0.017 | NA | NA | 1999.9 | 22.9 | 96-18-4 | 10 ppm (60mg/m3/8H) | orl-rat 149.6mg/kg |
| 45. | Benzene | 35162 | 050823 | 0.05 | 5.00 | 40005.0 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 71-43-2 | 1 ppm | orl-rat 4894mg/kg |
| 46. | Bromobenzene | 35162 | 050823 | 0.05 | 5.00 | 40006.9 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-86-1 | N/A | orl-rat 2699mg/kg |
| 47. | n-Butyl benzene | 35162 | 050823 | 0.05 | 5.00 | 40003.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 104-51-8 | N/A | N/A |
| 48. | Ethyl benzene | 35162 | 050823 | 0.05 | 5.00 | 40004.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 100-41-4 | 100 ppm (435mg/m3/8H) | orl-rat >2000mg/kg |
| 49. | p-Isopropyl toluene | 35162 | 050823 | 0.05 | 5.00 | 40005.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 99-87-6 | N/A | orl-rat 4750mg/kg |
| 50. | Naphthalene | 35162 | 050823 | 0.05 | 5.00 | 40006.2 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 91-20-3 | 10 ppm (50mg/m3/8H) | orl-rat 490mg/kg |
| 51. | Styrene | 35162 | 050823 | 0.05 | 5.00 | 40004.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 100-42-5 | 100 ppm | orl-rat 5000mg/kg |
| 52. | Toluene | 35162 | 050823 | 0.05 | 5.00 | 40006.2 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-88-3 | 200 ppm | orl-rat 5000mg/kg |
| 53. | 1,2,3-Trichlorobenzene | 35162 | 050823 | 0.05 | 5.00 | 40003.1 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 87-61-6 | N/A | ipr-mus 1390mg/kg |
| 54. | 1,2,4-Trichlorobenzene | 35162 | 050823 | 0.05 | 5.00 | 40006.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 120-82-1 | 5 ppm (CL) (40mg/m3) | orl-rat 756mg/kg |
| 55. | 1,2,4-Trimethylbenzene | 35162 | 050823 | 0.05 | 5.00 | 40001.6 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 95-63-6 | N/A | orl-rat 5g/kg |
| 56. | 1,3,5-Trimethylbenzene | 35162 | 050823 | 0.05 | 5.00 | 40006.7 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-67-8 | N/A | orl-rat 5000mg/kg |
| 57. | m-Xylene | 35162 | 050823 | 0.05 | 5.00 | 40005.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-38-3 | 100 ppm (435mg/m3/8H) | orl-rat 5g/kg |
| 58. | tert-Butyl benzene | 35163 | 101923 | 0.05 | 5.00 | 40001.2 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 98-06-6 | N/A | N/A |
| 59. | sec-Butyl benzene | 35163 | 101923 | 0.05 | 5.00 | 40002.4 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 135-98-8 | N/A | orl-rat 2240mg/kg |
| 60. | Chlorobenzene | 35163 | 101923 | 0.05 | 5.00 | 40003.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 108-90-7 | 75 ppm (350mg/m3/8H) | orl-rat 2290mg/kg |
| 61. | 2-Chlorotoluene | 35163 | 101923 | 0.05 | 5.00 | 40000.3 | 2000 | NA | NA | 0.017 | NA | NA | 1999.5 | 22.9 | 95-49-8 | 50 ppm (250mg/m3/8H) | orl-rat 3900mg/kg |
| 62. | 4-Chlorotoluene | 35163 | 101923 | 0.05 | 5.00 | 40003.3 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 106-43-4 | N/A | orl-rat 2100mg/kg |
| 63. | 1,2-Dichlorobenzene | 35163 | 101923 | 0.05 | 5.00 | 40003.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 95-50-1 | 50 ppm (300mg/m3) (CL) | orl-rat 500mg/kg |
| 64. | 1,3-Dichlorobenzene | 35163 | 101923 | 0.05 | 5.00 | 40001.7 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 541-73-1 | N/A | ipr-mus 1062mg/kg |
| 65. | 1,4-Dichlorobenzene | 35163 | 101923 | 0.05 | 5.00 | 40001.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 106-46-7 | 75 ppm (450mg/m3/8H) | orl-rat 500mg/kg |
| 66. | Isopropylbenzene | 35163 | 101923 | 0.05 | 5.00 | 40000.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.5 | 22.9 | 98-82-8 | 50 ppm (245mg/m3/8H) | orl-rat 1400mg/kg |
| 67. | n-Propylbenzene | 35163 | 101923 | 0.05 | 5.00 | 40003.4 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 23.0 | 103-65-1 | N/A | orl-rat 8040mg/kg |
| 68. | o-Xylene | 35163 | 101923 | 0.05 | 5.00 | 40040.8 | 2000 | NA | NA | 0.017 | NA | NA | 2001.5 | 23.0 | 95-47-6 | 100 ppm (435mg/m3/8H) | ipr-mus 1364mg/kg |
| 69. | p-Xylene | 35163 | 101923 | 0.05 | 5.00 | 40000.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.5 | 22.9 | 106-42-3 | 100 ppm (435mg/m3/8H) | orl-rat 5g/kg |

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

## Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

**Comments**
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3




| Peak # | Name | FID RT (min.) |
|---|---|---|
| 1 | Ether | 0.97 |
| 2 | 1,1,2-Trichloro-1,2,3-trifluoroethane | 10.33 |
| 3 | 1,1-Dichloroethene | 11.10 |
| 4 | Acetonitrile | 12.00 |
| 5 | Iodomethane | 12.31 |
| 6 | Allyl chloride | 12.56 |
| 7 | Carbon disulfide/Methylene chloride | 13.04 |
| 8 | trans-1,2-Dichloroethene | 14.07 |
| 9 | 1,1-Dichloroethane | 15.74 |
| 10 | 2,2-Dichloropropane | 17.74 |
| 11 | cis-1,2-Dichloroethene | 18.00 |
| 12 | Methacrylonitrile/Methyl acrylate/Chloroform | 18.49 |
| 13 | Isobutanol/1,1,1-Trichloroethane | 18.91 |
| 14 | 1,1-Dichloropropene | 20.46 |
| 15 | Carbon tetrachloride | 20.79 |
| 16 | Benzene/1,2-Dichloroethane | 21.48 |
| 17 | Trichloroethene | 23.86 |
| 18 | 1,2-Dichloropropane | 24.26 |
| 19 | Methyl methacrylate | 24.62 |
| 20 | Bromodichloromethane | 25.13 |
| 21 | Dibromomethane/2-Nitropropane | 25.46 |
| 22 | cis-1,3-Dichloropropene | 27.02 |
| 23 | Toluene | 28.09 |
| 24 | Ethyl methacrylate/trans-1,3-Dichloropropene | 28.73 |
| 25 | 1,1,2-Trichloroethane | 29.34 |
| 26 | Tetrachloroethene/1,3-Dichloropropane | 30.34 |
| 27 | Dibromochloromethane | 31.16 |
| 28 | 1,2-Dibromoethane | 31.84 |
| 29 | Chlorobenzene | 33.26 |
| 30 | Ethylbenzene/1,1,1,2-Tetrachloroethane | 33.40 |
| 31 | m-Xylene/p-Xylene | 33.85 |
| 32 | o-Xylene | 35.33 |
| 33 | Styrene | 35.50 |
| 34 | Isopropylbenzene/Bromoform | 35.48 |
| 35 | cis-1,4-Dichloro-2-butene | 36.80 |
| 36 | 1,1,2,2-Tetrachloroethane | 37.23 |
| 37 | 1,2,3-Trichloropropane | 37.77 |
| 38 | n-Propylbenzene | 37.92 |
| 39 | trans-1,4-Dichloro-2-butene | 38.05 |
| 40 | Bromobenzene | 38.14 |
| 41 | 1,3,5-Trimethylbenzene | 38.50 |
| 42 | 2-Chlorotoluene | 38.62 |
| 43 | 4-Chlorotoluene | 38.77 |
| 44 | tert-Butylbenzene | 39.76 |
| 45 | 1,2,4-Trimethylbenzene | 39.91 |
| 46 | Pentachloroethane | 40.17 |
| 47 | sec-Butylbenzene | 40.52 |
| 48 | p-Isopropyltoluene | 41.02 |
| 49 | 1,3-Dichlorobenzene | 41.12 |
| 50 | 1,4-Dichlorobenzene | 41.63 |
| 51 | n-Butylbenzene | 42.52 |
| 52 | 1,2-Dichlorobenzene | 42.18 |
| 53 | 1,2-Dibromo-3-chloropropane | 46.12 |
| 54 | Nitrobenzene | 46.58 |
| 55 | 1,2,4-Trichlorobenzene | 48.26 |
| 56 | Hexachlorobutadiene | 48.72 |
| 57 | Naphthalene | 50.26 |
| 58 | 1,2,3-Trichlorobenzene | 51.16 |

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

**Safety Data Sheet (SDS)** GHS/OSHA Compliant

## Section I Product and Company Identification

**IDENTITY** **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

| | | | |
|---|---|---|---|
| Manufacturer's Name | ABSOLUTE STANDARDS INC | Emergency Telephone USA & CANADA | **1-800-535-5053** |
| Address | 44 Rossotto Dr. | Emergency Telephone International | **1-352-323-3500** |
| | Hamden CT, 06514 | Date Prepared/Revised | January 1, 2024 |

## Section II - Hazards Identification

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

| | | | |
|---|---|---|---|
| **H225** | **Highly Flammable Liquid and Vapor** | **H301, 311, 331** | **Toxic if swallowed, skin contact, inhaled** |
| **H370** | **Cause damage to organs** | **H351** | **Suspected of causing cancer** |
| **P271** | **Use in ventilated area** | **P280** | **Use gloves, eye protection/face sheild** |
| **P302,332** | **If on skin, wash with soap and water** | **P305,351,338** | **If in eyes, remove contacts, rinse with water** |

**Signal Word: DANGER**

## Section III - Composition

| Components (Specific Chemical Identity; Common Name(s)) | | | |
|---|---|---|---|
| Methanol | METHYL ALCOHOL | CAS#: 67-56-1 | % (optional) > 97 |

**See Certified Weight Report For Other Analytes Present At Trace Quantities.**

**INTENDED USE: REFERENCE MATERIAL**

## Section IV. FIRST AID MEASURES

| | |
|---|---|
| **General advice** | Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area. |
| **If inhaled** | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **In case of skin contact** | Wash with soap and water. Consult a physician. |
| **In case of eye contact** | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| **If swallowed** | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

## Section V. FIREFIGHTING MEASURES

| | |
|---|---|
| **Flammability** | Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking. |
| **Suitable extinguishing media** | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| **Protective equipment for fire** | Wear self contained breathing apparatus for fire fighting if necessary. |

## Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

## Section VII. HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. |
| Storage Conditions | Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

## Section IX - Physical/Chemical Characteristics

| | | | |
|---|---|---|---|
| Boiling Point | 65°C | Specific Gravity (H2O = 1) | 0.79 |
| Vapor Pressure (mm Hg) | 96 | Melting Point | -98°C |
| Vapor Density (AIR = 1) | 1.11 | Evaporation rate (Butyl Acetate = 1) | 4.6 |

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

## Section X. STABILITY AND REACTIVITY

Chemical stability: Stable under recommended storage conditions.
Possibility of hazardous reactions: Vapours may form explosive mixture with air.
Conditions to avoid: Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid: Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

## Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

## Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

| | |
|---|---|
| LC50 | 15,400 mg/l - 96 h |
| EC50 | 24,500.00 mg/l - 48 h |
| EC100 | 10,000.00 mg/l - 24 h |

## Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

## Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

## Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

**Certified Reference Material CRM**

Rec 09/17/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Lot#
Methanol EG359-USQ12

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

Formulated By: Prashant Chauhan 021624 DATE

Reviewed By: Pedro L. Rentas 021624 DATE

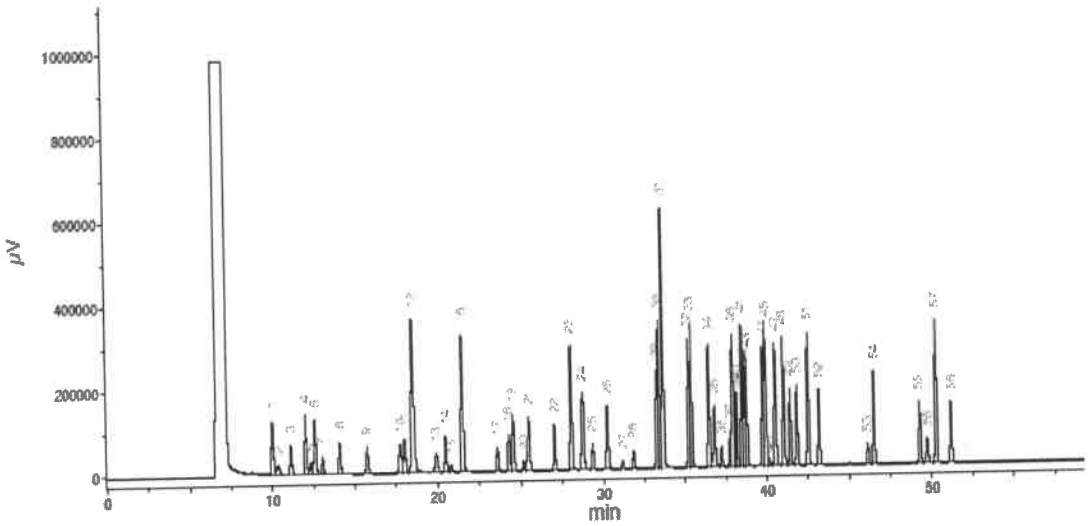
| | Compound | (RM#) Part Number | Lot Number | Dil. Factor | Initial Vol. (mL) | Initial Conc.(ug/mL) | Nominal Conc (µg/mL) | Purity (%) | Purity Uncertainty | Uncertainty Pipette (mL) | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | Acetonitrile | (0324) | 021644 | NA | NA | NA | 2000 | 99.99 | 0.2 | NA | 0.20007 | 0.20020 | 2001.3 | 8.1 | 75-05-8 | 40 ppm (70mg/m3/8H) | orl-rat 2460mg/kg |
| 2. | Allyl chloride (3-Chloropropene) | (0325) | 102396 | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20221 | 2001.4 | 8.2 | 107-05-1 | 1 ppm (3mg/m3/8H) | orl-rat 700mg/kg |
| 3. | Carbon disulphide | (0060) | MKCR8561 | NA | NA | NA | 2000 | 99.99 | 0.2 | NA | 0.20007 | 0.20023 | 2001.6 | 8.1 | 75-15-0 | 4 ppm (12mg/m3) (skin) | orl-rat 1200mg/kg |
| 4. | cis-1,4-Dichloro-2-butene | (1196) | 14718EF | NA | NA | NA | 2000 | 95 | 0.2 | NA | 0.21058 | 0.21069 | 2001.1 | 8.5 | 1476-11-5 | N/A | N/A |
| 5. | trans-1,4-Dichloro-2-butene | (0466) | MKBP6041V | NA | NA | NA | 2000 | 96.5 | 0.2 | NA | 0.20731 | 0.20748 | 2001.7 | 8.4 | 110-57-6 | N/A | N/A |
| 6. | Diethyl ether | (0153) | IK18CAS0000 | NA | NA | NA | 2000 | 99.9 | 0.2 | NA | 0.20025 | 0.20040 | 2001.5 | 8.1 | 60-29-7 | N/A | N/A |
| 7. | Ethyl methacrylate | (0381) | 06128PX | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20230 | 2002.3 | 8.2 | 97-63-2 | N/A | orl-rat 14800mg/kg |
| 8. | Iodomethane | (0489) | SHBF8718V | NA | NA | NA | 2000 | 99.5 | 0.2 | NA | 0.20106 | 0.20121 | 2001.5 | 8.2 | 74-88-4 | 5 ppm(28mg/m3/8H)(skin) | orl-rat 76mg/kg |
| 9. | 2-Methyl-1-propanol | (0445) | 15241EB | NA | NA | NA | 2000 | 99.5 | 0.2 | NA | 0.20106 | 0.20120 | 2001.4 | 8.1 | 78-83-1 | 50 ppm (150mg/m3/8H) | orl-rat 2460mg/kg |
| 10. | Methacrylonitrile | (0442) | 00427ET | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20221 | 2001.4 | 8.2 | 126-98-7 | 1 ppm (3mg/m3/8H)(skin) | orl-rat 120mg/kg |
| 11. | Methyl acrylate | (1075) | SHBK0679 | NA | NA | NA | 2000 | 99.9 | 0.2 | NA | 0.20025 | 0.20040 | 2001.5 | 8.1 | 96-33-3 | 10 ppm(35mg/m3/8H)(skin) | orl-rat 277mg/kg |
| 12. | Methyl methacrylate | (0404) | MKBW5137V | NA | NA | NA | 2000 | 99.9 | 0.2 | NA | 0.20025 | 0.20041 | 2001.6 | 8.1 | 80-62-6 | 100 ppm (410mg/m3/8H) | orl-rat 7872mg/kg |
| 13. | Nitrobenzene | (0228) | 01213TV | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20220 | 2001.3 | 8.2 | 98-95-3 | 1 ppm (5mg/m3/8H)(skin) | orl-rat 780mg/kg |
| 14. | 2-Nitropropane | (0461) | 14002JX | NA | NA | NA | 2000 | 97.3 | 0.2 | NA | 0.20560 | 0.20577 | 2001.6 | 8.3 | 79-46-9 | 10 ppm (35mg/m3/8H) | orl-rat 720mg/kg |
| 15. | Pentachloroethane | (0450) | HGA01 | NA | NA | NA | 2000 | 98 | 0.2 | NA | 0.20413 | 0.20430 | 2001.6 | 8.3 | 76-01-7 | N/A | N/A |
| 16. | 1,1,2-Trichlorotrifluoroethane | (0474) | 18930 | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20225 | 2001.8 | 8.2 | 76-13-1 | 1000 ppm (7600mg/m3/8H) | orl-rat 43g/kg |
| 17. | Bromodichloromethane | 35171 | 101623 | 0.05 | 5.00 | 40001.7 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 75-27-4 | N/A | orl-rat 916mg/kg |
| 18. | Dibromochloromethane | 35171 | 101623 | 0.05 | 5.00 | 40002.1 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 124-48-1 | N/A | orl-rat 846mg/kg |
| 19. | cis-1,2-Dichloroethene | 35171 | 101623 | 0.05 | 5.00 | 40003.1 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 156-59-2 | N/A | N/A |
| 20. | trans-1,2-Dichloroethene | 35171 | 101623 | 0.05 | 5.00 | 40002.4 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 156-60-5 | N/A | orl-rat 1235mg/kg |
| 21. | Methylene chloride | 35171 | 101623 | 0.05 | 5.00 | 40002.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 75-09-2 | 500 ppm | orl-rat 820mg/kg |
| 22. | 1,1-Dichloroethene | 32251 | 102023 | 0.10 | 10.00 | 20001.6 | 2000 | NA | NA | 0.042 | NA | NA | 1999.7 | 20.4 | 75-35-4 | 1 ppm (4mg/m3/8H) | orl-rat 200mg/kg |
| 23. | Bromoform | 95321 | 020724 | 0.10 | 10.00 | 20003.2 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 75-25-2 | 0.5 ppm (5mg/m3) (skin) | orl-rat 933mg/kg |
| 24. | Carbon tetrachloride | 95321 | 020724 | 0.10 | 10.00 | 20003.4 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.4 | 56-23-5 | 2 ppm (12.6mg/m3/8H) | orl-rat 2350mg/kg |
| 25. | Chloroform | 95321 | 020724 | 0.10 | 10.00 | 20024.0 | 2000 | NA | NA | 0.042 | NA | NA | 2001.9 | 20.5 | 67-66-3 | 50 ppm (240mg/m3) (CL) | orl-rat 908mg/kg |
| 26. | Dibromomethane | 95321 | 020724 | 0.10 | 10.00 | 20002.9 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 74-95-3 | N/A | orl-rat 108mg/kg |
| 27. | 1,1-Dichloroethane | 95321 | 020724 | 0.10 | 10.00 | 20003.4 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 75-34-3 | 100 ppm | orl-rat 725mg/kg |
| 28. | 2,2-Dichloropropane | 95321 | 020724 | 0.10 | 10.00 | 20003.4 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.4 | 594-20-7 | N/A | N/A |
| 29. | Tetrachloroethene | 95321 | 020724 | 0.10 | 10.00 | 20201.1 | 2000 | NA | NA | 0.042 | NA | NA | 2019.6 | 20.8 | 127-18-4 | 25 ppm (170mg/m3/8H)(final) | orl-rat 2629mg/kg |
| 30. | 1,1,1-Trichloroethane | 95321 | 020724 | 0.10 | 10.00 | 20003.0 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 71-55-6 | 350 ppm (1900mg/m3/8H) | orl-rat 10300mg/kg |
| 31. | 1,2-Dibromo-3-chloropropane | 35161 | 112322 | 0.05 | 5.00 | 40016.5 | 2000 | NA | NA | 0.017 | NA | NA | 2000.3 | 22.9 | 96-12-8 | 0.001 ppm | orl-rat 170mg/kg |
| 32. | 1,2-Dibromoethane | 35161 | 112322 | 0.05 | 5.00 | 40024.8 | 2000 | NA | NA | 0.017 | NA | NA | 2000.7 | 22.9 | 106-93-4 | 20 ppm (8H) | orl-rat 108mg/kg |
| 33. | 1,2-Dichloroethane | 35161 | 112322 | 0.05 | 5.00 | 40018.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.4 | 22.9 | 107-06-2 | 50 ppm (8H) | orl-rat 670mg/kg |
| 34. | 1,2-Dichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40051.0 | 2000 | NA | NA | 0.017 | NA | NA | 2002.0 | 22.9 | 78-87-5 | 75 ppm (350mg/m3/8H) | orl-rat 1947mg/kg |
| 35. | 1,3-Dichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40005.9 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 142-28-9 | N/A | unr-mus 3600mg/kg |
| 36. | 1,1-Dichloropropene | 35161 | 112322 | 0.05 | 5.00 | 40012.1 | 2000 | NA | NA | 0.017 | NA | NA | 2000.1 | 29.7 | 563-58-6 | N/A | N/A |
| 37. | cis-1,3-Dichloropropene | 35161 | 112322 | 0.05 | 5.00 | 40010.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.0 | 23.0 | 10061-01-5 | N/A | N/A |
| 38. | trans-1,3-Dichloropropene | 35161 | 112322 | 0.05 | 5.00 | 40017.6 | 2000 | NA | NA | 0.017 | NA | NA | 2000.4 | 23.0 | 10061-02-6 | N/A | N/A |
| 39. | Hexachloro-1,3-butadiene | 35161 | 112322 | 0.05 | 5.00 | 40021.9 | 2000 | NA | NA | 0.017 | NA | NA | 2000.6 | 29.7 | 87-68-3 | 0.02 ppm (0.24mg/m3/8H) | orl-rat 82mg/kg |
| 40. | 1,1,1,2-Tetrachloroethane | 35161 | 112322 | 0.05 | 5.00 | 40011.9 | 2000 | NA | NA | 0.017 | NA | NA | 2000.1 | 22.9 | 630-20-6 | N/A | orl-rat 670mg/kg |
| 41. | 1,1,2,2-Tetrachloroethane | 35161 | 112322 | 0.05 | 5.00 | 40007.5 | 2000 | NA | NA | 0.017 | NA | NA | 1999.9 | 22.9 | 79-34-5 | 5 ppm (35mg/m3/9H)(skin) | orl-rat 800mg/kg |
| 42. | 1,1,2-Trichloroethane | 35161 | 112322 | 0.05 | 5.00 | 40006.6 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 23.0 | 79-00-5 | 10 ppm (45mg/m3/8H)(skin) | orl-rat 836mg/kg |
| 43. | Trichloroethene | 35161 | 112322 | 0.05 | 5.00 | 40029.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.9 | 22.9 | 79-01-6 | 50 ppm (270mg/m3/8H) | orl-mus 2402mg/kg |
| 44. | 1,2,3-Trichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40007.5 | 2000 | NA | NA | 0.017 | NA | NA | 1999.9 | 22.9 | 96-18-4 | 10 ppm (60mg/m3/8H) | orl-rat 149.6mg/kg |
| 45. | Benzene | 35162 | 050823 | 0.05 | 5.00 | 40005.0 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 71-43-2 | 1 ppm | orl-rat 4894mg/kg |
| 46. | Bromobenzene | 35162 | 050823 | 0.05 | 5.00 | 40006.9 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-86-1 | N/A | orl-rat 2699mg/kg |
| 47. | n-Butyl benzene | 35162 | 050823 | 0.05 | 5.00 | 40003.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 104-51-8 | N/A | N/A |
| 48. | Ethyl benzene | 35162 | 050823 | 0.05 | 5.00 | 40004.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 100-41-4 | 100 ppm (435mg/m3/8H) | orl-rat >2000mg/kg |
| 49. | p-Isopropyl toluene | 35162 | 050823 | 0.05 | 5.00 | 40005.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 99-87-6 | N/A | orl-rat 4750mg/kg |
| 50. | Naphthalene | 35162 | 050823 | 0.05 | 5.00 | 40006.2 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 91-20-3 | 10 ppm (50mg/m3/8H) | orl-rat 490mg/kg |
| 51. | Styrene | 35162 | 050823 | 0.05 | 5.00 | 40004.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 100-42-5 | 100 ppm | orl-rat 5000mg/kg |
| 52. | Toluene | 35162 | 050823 | 0.05 | 5.00 | 40006.2 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-88-3 | 200 ppm | orl-rat 5000mg/kg |
| 53. | 1,2,3-Trichlorobenzene | 35162 | 050823 | 0.05 | 5.00 | 40003.1 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 87-61-6 | N/A | ipr-mus 1390mg/kg |
| 54. | 1,2,4-Trichlorobenzene | 35162 | 050823 | 0.05 | 5.00 | 40006.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 120-82-1 | 5 ppm (CL) (40mg/m3) | orl-rat 756mg/kg |
| 55. | 1,2,4-Trimethylbenzene | 35162 | 050823 | 0.05 | 5.00 | 40001.6 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 95-63-6 | N/A | orl-rat 5g/kg |
| 56. | 1,3,5-Trimethylbenzene | 35162 | 050823 | 0.05 | 5.00 | 40006.7 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-67-8 | N/A | orl-rat 5000mg/kg |
| 57. | m-Xylene | 35162 | 050823 | 0.05 | 5.00 | 40005.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-38-3 | 100 ppm (435mg/m3/8H) | orl-rat 5g/kg |
| 58. | tert-Butyl benzene | 35163 | 101923 | 0.05 | 5.00 | 40001.2 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 98-06-6 | N/A | N/A |
| 59. | sec-Butyl benzene | 35163 | 101923 | 0.05 | 5.00 | 40002.4 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 135-98-8 | N/A | orl-rat 2240mg/kg |
| 60. | Chlorobenzene | 35163 | 101923 | 0.05 | 5.00 | 40003.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 108-90-7 | 75 ppm (350mg/m3/8H) | orl-rat 2290mg/kg |
| 61. | 2-Chlorotoluene | 35163 | 101923 | 0.05 | 5.00 | 40000.3 | 2000 | NA | NA | 0.017 | NA | NA | 1999.5 | 22.9 | 95-49-8 | 50 ppm (250mg/m3/8H) | orl-rat 3900mg/kg |
| 62. | 4-Chlorotoluene | 35163 | 101923 | 0.05 | 5.00 | 40003.3 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 106-43-4 | N/A | orl-rat 2100mg/kg |
| 63. | 1,2-Dichlorobenzene | 35163 | 101923 | 0.05 | 5.00 | 40003.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 95-50-1 | 50 ppm (300mg/m3) (CL) | orl-rat 500mg/kg |
| 64. | 1,3-Dichlorobenzene | 35163 | 101923 | 0.05 | 5.00 | 40001.7 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 541-73-1 | N/A | ipr-mus 1062mg/kg |
| 65. | 1,4-Dichlorobenzene | 35163 | 101923 | 0.05 | 5.00 | 40001.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 106-46-7 | 75 ppm (450mg/m3/8H) | orl-rat 500mg/kg |
| 66. | Isopropylbenzene | 35163 | 101923 | 0.05 | 5.00 | 40000.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.5 | 22.9 | 98-82-8 | 50 ppm (245mg/m3/8H) | orl-rat 1400mg/kg |
| 67. | n-Propylbenzene | 35163 | 101923 | 0.05 | 5.00 | 40003.4 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 23.0 | 103-65-1 | N/A | orl-rat 8040mg/kg |
| 68. | o-Xylene | 35163 | 101923 | 0.05 | 5.00 | 40040.8 | 2000 | NA | NA | 0.017 | NA | NA | 2001.5 | 23.0 | 95-47-6 | 100 ppm (435mg/m3/8H) | ipr-mus 1364mg/kg |
| 69. | p-Xylene | 35163 | 101923 | 0.05 | 5.00 | 40000.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.5 | 22.9 | 106-42-3 | 100 ppm (435mg/m3/8H) | orl-rat 5g/kg |

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

## Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

**Comments**
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3




| Peak # | Name | FID RT (min.) |
|---|---|---|
| 1 | Ether | 9.97 |
| 2 | 1,1,2-Trichloro-1,2,3-trifluoroethane | 10.33 |
| 3 | 1,1-Dichloroethene | 11.10 |
| 4 | Acetonitrile | 12.00 |
| 5 | Iodomethane | 12.31 |
| 6 | Allyl chloride | 12.56 |
| 7 | Carbon disulfide/Methylene chloride | 13.04 |
| 8 | trans-1,2-Dichloroethene | 14.07 |
| 9 | 1,1-Dichloroethane | 15.74 |
| 10 | 2,2-Dichloropropane | 17.74 |
| 11 | cis-1,2-Dichloroethene | 18.00 |
| 12 | Methacrylonitrile/Methyl acrylate/Chloroform | 18.49 |
| 13 | Isobutanol/1,1,1-Trichloroethane | 18.91 |
| 14 | 1,1-Dichloropropene | 19.46 |
| 15 | Carbon tetrachloride | 20.79 |
| 16 | Benzene/1,2-Dichloroethane | 21.48 |
| 17 | Trichloroethene | 23.86 |
| 18 | 1,2-Dichloropropane | 24.26 |
| 19 | Methyl methacrylate | 24.62 |
| 20 | Bromodichloromethane | 25.13 |
| 21 | Dibromomethane/2-Nitropropane | 25.46 |
| 22 | cis-1,3-Dichloropropene | 27.02 |
| 23 | Toluene | 28.09 |
| 24 | Ethyl methacrylate/trans-1,3-Dichloropropene | 28.73 |
| 25 | 1,1,2-Trichloroethane | 29.34 |
| 26 | Tetrachloroethene/1,3-Dichloropropane | 30.34 |
| 27 | Dibromochloromethane | 31.16 |
| 28 | 1,2-Dibromoethane | 31.84 |
| 29 | Chlorobenzene | 33.26 |
| 30 | Ethylbenzene/1,1,1,2-Tetrachloroethane | 33.40 |
| 31 | m-Xylene/p-Xylene | 33.85 |
| 32 | o-Xylene | 35.33 |
| 33 | Styrene | 35.39 |
| 34 | Isopropylbenzene/Bromoform | 35.48 |
| 35 | cis-1,4-Dichloro-2-butene | 36.80 |
| 36 | 1,1,2,2-Tetrachloroethane | 37.23 |
| 37 | 1,2,3-Trichloropropane | 37.77 |
| 38 | n-Propylbenzene | 37.92 |
| 39 | trans-1,4-Dichloro-2-butene | 38.05 |
| 40 | Bromobenzene | 38.14 |
| 41 | 1,3,5-Trimethylbenzene | 38.50 |
| 42 | 2-Chlorotoluene | 38.62 |
| 43 | 4-Chlorotoluene | 38.77 |
| 44 | tert-Butylbenzene | 39.76 |
| 45 | 1,2,4-Trimethylbenzene | 39.91 |
| 46 | Pentachloroethane | 40.17 |
| 47 | sec-Butylbenzene | 40.52 |
| 48 | p-Isopropyltoluene | 41.02 |
| 49 | 1,3-Dichlorobenzene | 41.42 |
| 50 | 1,4-Dichlorobenzene | 41.63 |
| 51 | n-Butylbenzene | 42.82 |
| 52 | 1,2-Dichlorobenzene | 43.18 |
| 53 | 1,2-Dibromo-3-chloropropane | 46.12 |
| 54 | Nitrobenzene | 46.58 |
| 55 | 1,2,4-Trichlorobenzene | 49.26 |
| 56 | Hexachlorobutadiene | 49.72 |
| 57 | Naphthalene | 50.26 |
| 58 | 1,2,3-Trichlorobenzene | 51.16 |

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

**Safety Data Sheet (SDS)** GHS/OSHA Compliant

## Section I Product and Company Identification

**IDENTITY** **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

| | | | |
|---|---|---|---|
| Manufacturer's Name | ABSOLUTE STANDARDS INC | Emergency Telephone USA & CANADA | **1-800-535-5053** |
| Address | 44 Rossotto Dr. | Emergency Telephone International | **1-352-323-3500** |
| | Hamden CT, 06514 | Date Prepared/Revised | January 1, 2024 |

## Section II - Hazards Identification

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

| | | | |
|---|---|---|---|
| **H225** | **Highly Flammable Liquid and Vapor** | **H301, 311, 331** | **Toxic if swallowed, skin contact, inhaled** |
| **H370** | **Cause damage to organs** | **H351** | **Suspected of causing cancer** |
| **P271** | **Use in ventilated area** | **P280** | **Use gloves, eye protection/face sheild** |
| **P302,332** | **If on skin, wash with soap and water** | **P305,351,338** | **If in eyes, remove contacts, rinse with water** |

**Signal Word: DANGER**

## Section III - Composition

| Components (Specific Chemical Identity; Common Name(s)) | | | |
|---|---|---|---|
| Methanol | METHYL ALCOHOL | CAS#: 67-56-1 | % (optional) > 97 |

**See Certified Weight Report For Other Analytes Present At Trace Quantities.**

**INTENDED USE: REFERENCE MATERIAL**

## Section IV. FIRST AID MEASURES

| | |
|---|---|
| **General advice** | Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area. |
| **If inhaled** | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **In case of skin contact** | Wash with soap and water. Consult a physician. |
| **In case of eye contact** | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| **If swallowed** | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

## Section V. FIREFIGHTING MEASURES

| | |
|---|---|
| **Flammability** | Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking. |
| **Suitable extinguishing media** | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| **Protective equipment for fire** | Wear self contained breathing apparatus for fire fighting if necessary. |

## Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

## Section VII. HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. |
| Storage Conditions | Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

## Section IX - Physical/Chemical Characteristics

| | | | |
|---|---|---|---|
| Boiling Point | 65°C | Specific Gravity (H2O = 1) | 0.79 |
| Vapor Pressure (mm Hg) | 96 | Melting Point | -98°C |
| Vapor Density (AIR = 1) | 1.11 | Evaporation rate (Butyl Acetate = 1) | 4.6 |

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

## Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

## Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

## Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

| | |
|---|---|
| LC50 | 15,400 mg/l - 96 h |
| EC50 | 24,500.00 mg/l - 48 h |
| EC100 | 10,000.00 mg/l - 24 h |

## Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

## Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

## Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

**Certified Reference Material CRM**

Rec 09/16/24 2 Vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Numb
https://Absolutestandards.co...

## CERTIFIED WEIGHT REPORT

**Part Number:** 91980
**Lot Number:** 091424
**Description:** Acrolein

**Solvent(s):** Water **Lot#** 072324Q

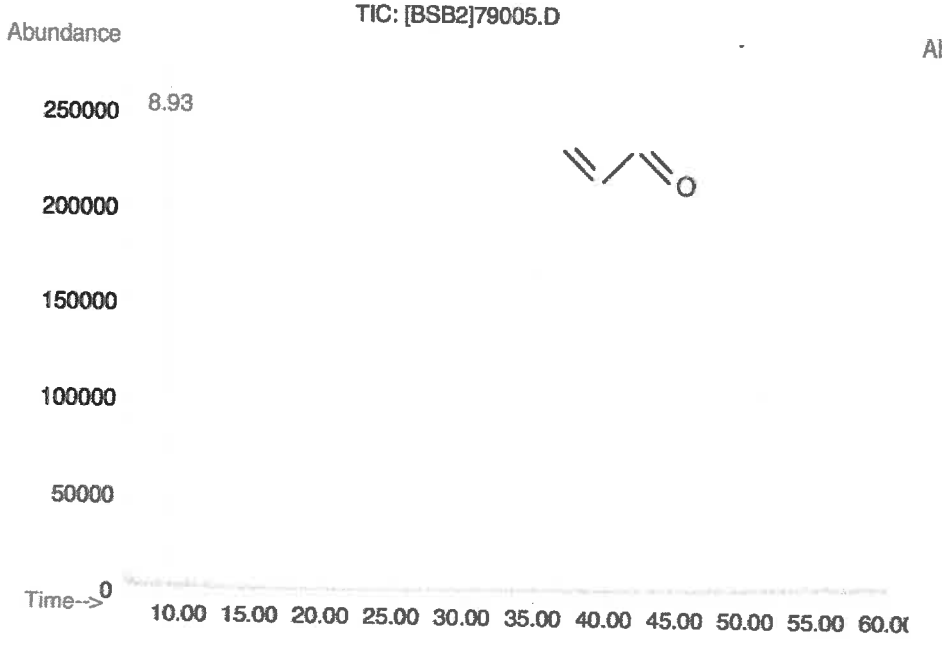
Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

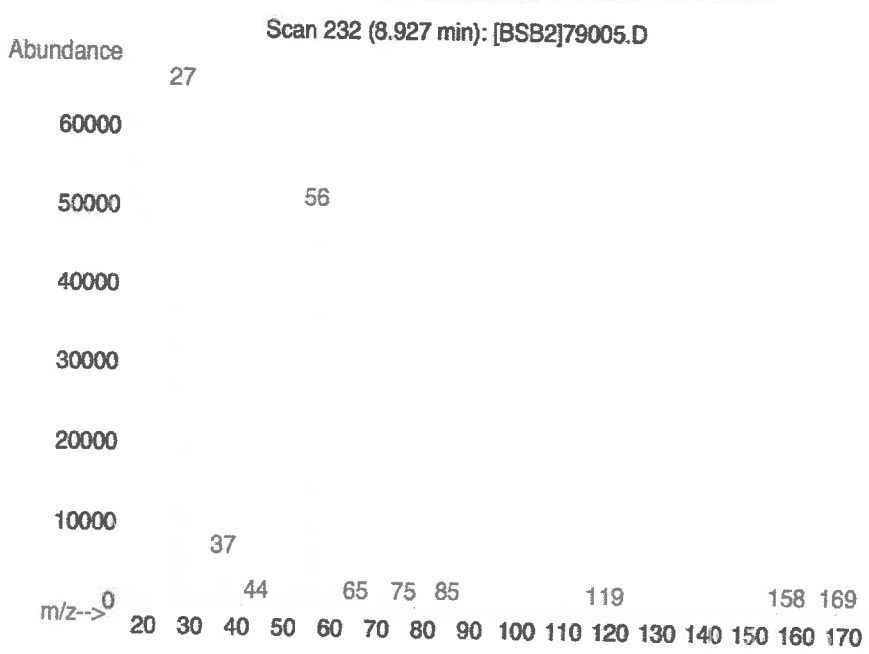
Weight(s) shown below were combined and diluted to (mL): 10.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

| | |
|---|---|
| Justin Dippold | 091424 |
| Formulated By: Justin Dippold | DATE |
| Pedro Rentas | 091424 |
| Reviewed By: Pedro L. Rentas | DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Acrolein | 5 | 103755V10F | 5000 | 97 | 0.5 | 0.05166 | 0.05175 | 5008.9 | 52.5 | 107-02-8 | 0.1 ppm | orl-rat 46mg/kg |

**Method:** GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C ( Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.




- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

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800-368-1131
www.absolutestandards.com

**Certified Reference Material CRM**

Rec 09/16/24 2 Vials

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https://Absolutestandards.co...

## CERTIFIED WEIGHT REPORT

**Part Number:** 91980
**Lot Number:** 091424
**Description:** Acrolein

**Solvent(s):** Water **Lot#** 072324Q

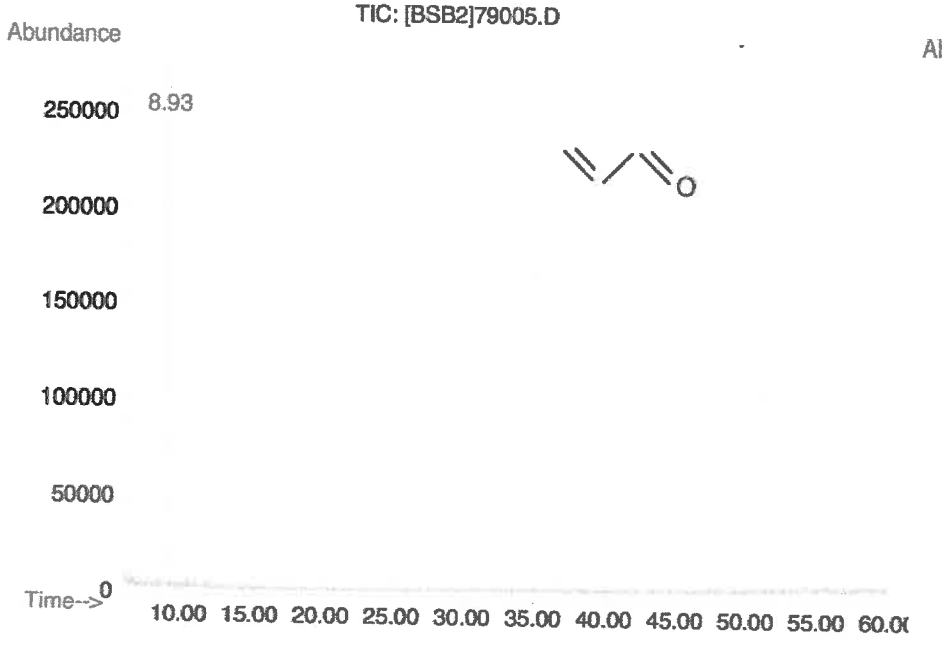
Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

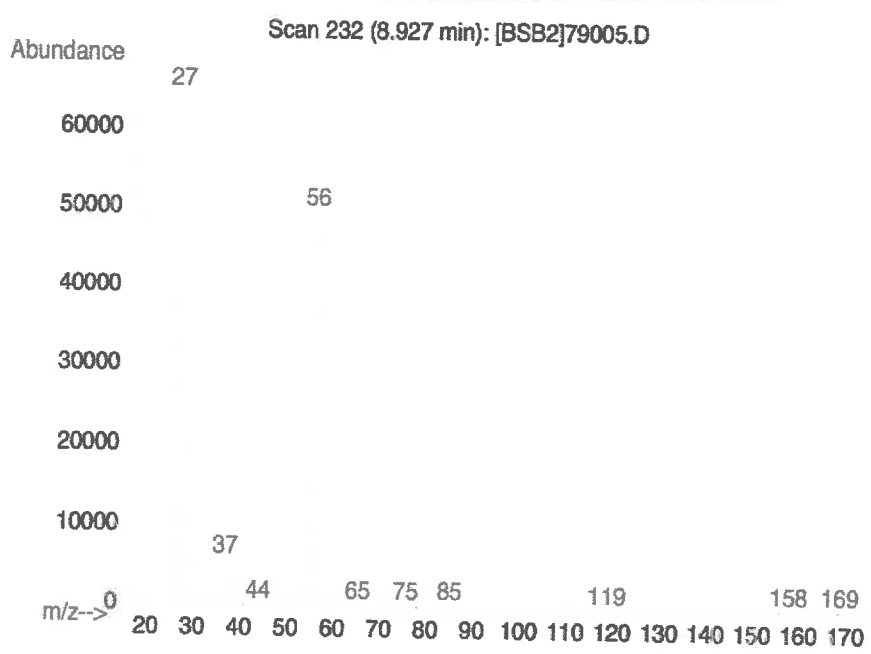
Weight(s) shown below were combined and diluted to (mL): 10.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

| | |
|---|---|
| Justin Dippold | 091424 |
| Formulated By: Justin Dippold | DATE |
| Pedro Rentas | 091424 |
| Reviewed By: Pedro L. Rentas | DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Acrolein | 5 | 103755V10F | 5000 | 97 | 0.5 | 0.05166 | 0.05175 | 5008.9 | 52.5 | 107-02-8 | 0.1 ppm | orl-rat 46mg/kg |

**Method:** GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C ( Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.

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- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

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## CERTIFIED WEIGHT REPORT

**Part Number:** 95318
**Lot Number:** 111722
**Description:** 2-Chloroethyl vinyl ether

**Solvent(s):** Methanol **Lot#** EB679-US

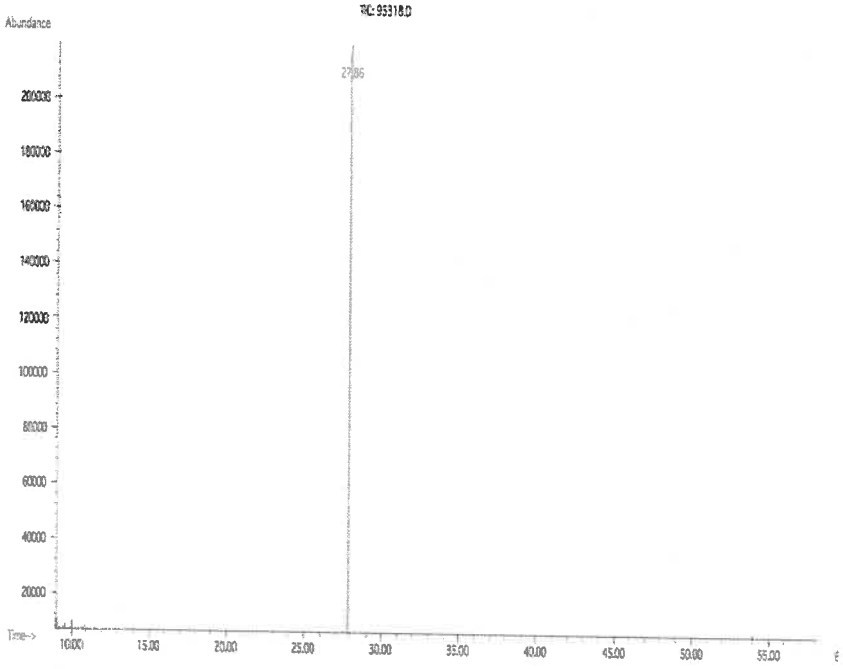
**Expiration Date:** 111725
**Recommended Storage:** Refrigerate (4 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test ID#:** 6UTB

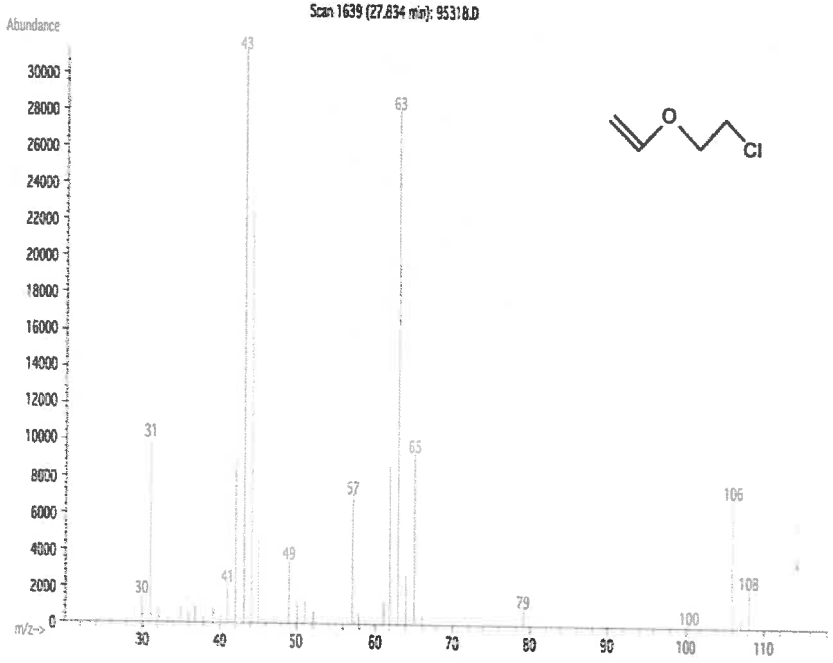
Weight(s) shown below were combined and diluted to (mL): 50.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

| | | |
|---|---|---|
| Formulated By: | Eli Aliaga | 111722 DATE |
| Reviewed By: | Pedro L. Rentas | 111722 DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight (g) | Actual Weight (g) | Actual Conc(µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. 2-Chloroethyl vinyl ether | 74 | MKCD0033 | 10000 | 99 | 0.2 | 0.50541 | 0.50551 | 10001.9 | 40.5 | 110-75-8 | N/A | orl-rat 250mg/kg |

**Method:** GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.







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## CERTIFIED WEIGHT REPORT

**Part Number:** 95318
**Lot Number:** 111722
**Description:** 2-Chloroethyl vinyl ether

**Solvent(s):** Methanol **Lot#** EB679-US

Expiration Date: 111725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

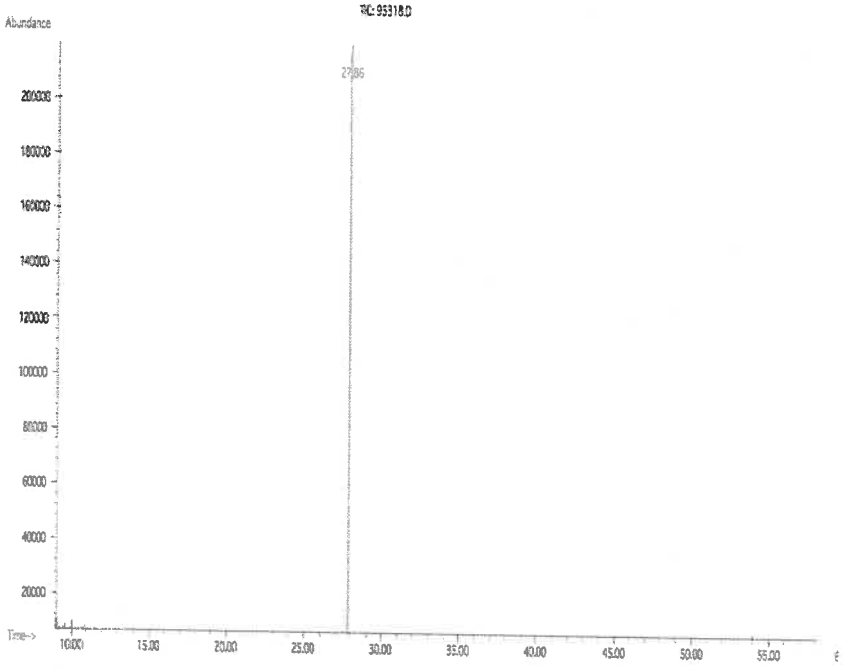
Weight(s) shown below were combined and diluted to (mL): 50.0

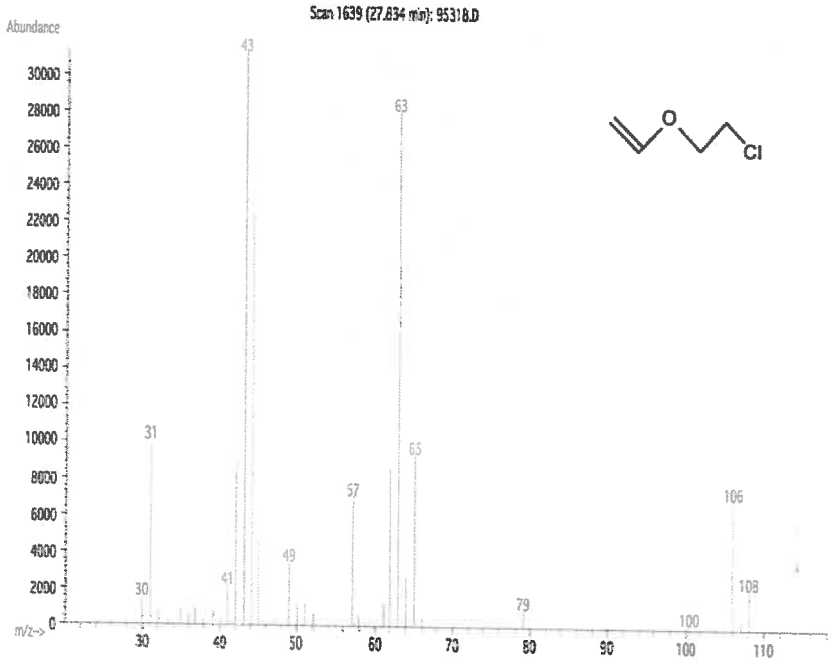
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

| | | |
|---|---|---|
| Formulated By: | Eli Aliaga | 111722 DATE |
| Reviewed By: | Pedro L. Rentas | 111722 DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight (g) | Actual Weight (g) | Actual Conc(µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. 2-Chloroethyl vinyl ether | 74 | MKCD0033 | 10000 | 99 | 0.2 | 0.50541 | 0.50551 | 10001.9 | 40.5 | 110-75-8 | N/A | orl-rat 250mg/kg |

**Method:** GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.







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## CERTIFIED WEIGHT REPORT

**Part Number:** 95318
**Lot Number:** 120524
**Description:** 2-Chloroethyl vinyl ether

**Expiration Date:** 120527
**Recommended Storage:** Refrigerate (4 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test ID#:** 6UTB

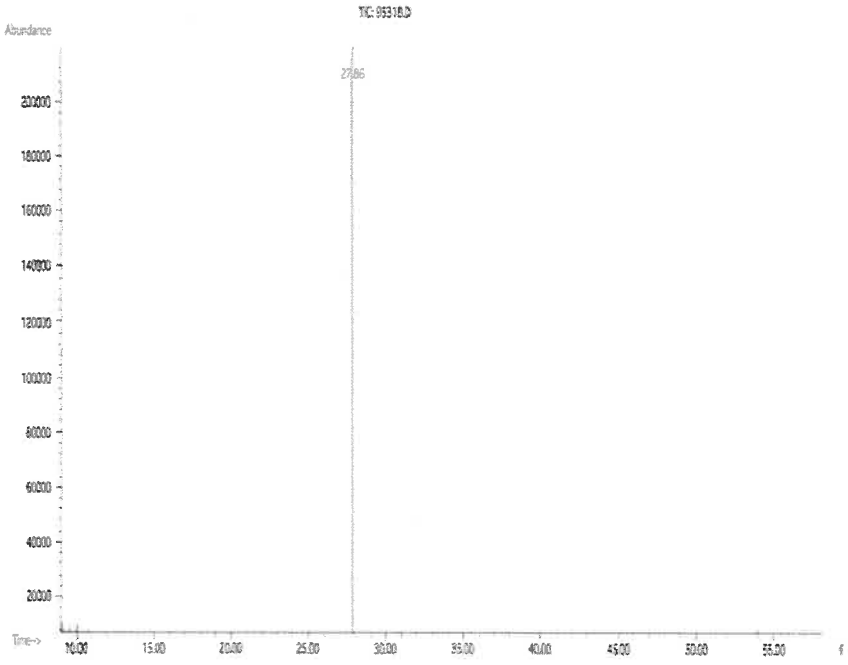
**Solvent(s):** Methanol **Lot#** EJ143-US

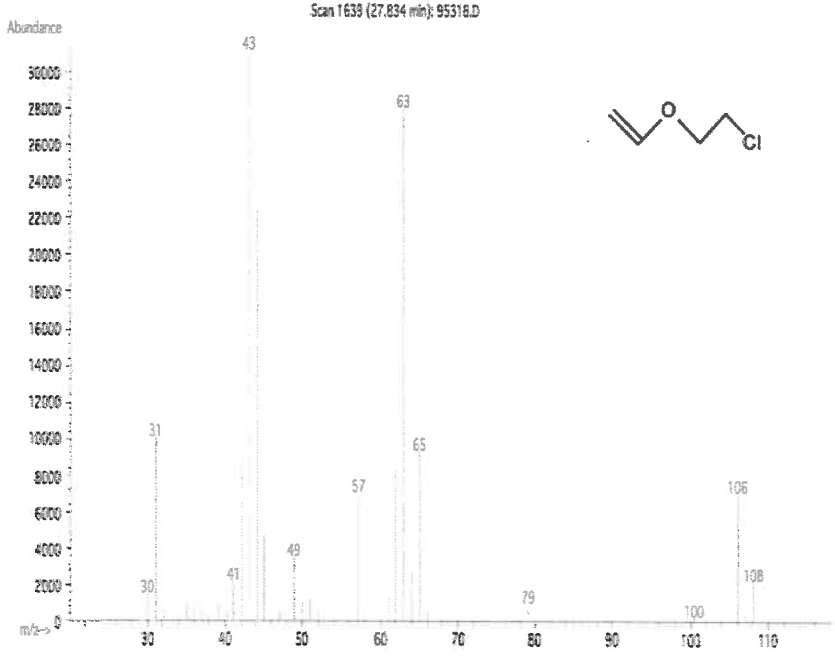
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

| | | |
|---|---|---|
| Prashant Chauhan | 120524 |
| Formulated By: Prashant Chauhan | DATE |
| Pedro Rentas | 120524 |
| Reviewed By: Pedro L. Rentas | DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight (g) | Actual Weight (g) | Actual Conc(µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. 2-Chloroethyl vinyl ether | 74 | MKCD0033 | 10000 | 99 | 0.2 | 0.50536 | 0.50550 | 10002.9 | 40.5 | 110-75-8 | N/A | ori-rat 250mg/kg |

**Method:** GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.







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Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

**Safety Data Sheet (SDS)** GHS/OSHA Compliant

## Section I Product and Company Identification

**IDENTITY** **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

| | | | |
|---|---|---|---|
| Manufacturer's Name | ABSOLUTE STANDARDS INC | Emergency Telephone USA & CANADA | **1-800-535-5053** |
| Address | 44 Rossotto Dr.<br>Hamden CT, 06514 | Emergency Telephone International<br>Date Prepared/Revised | **1-352-323-3500**<br>January 1, 2024 |

## Section II - Hazards Identification

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

| | | | |
|---|---|---|---|
| **H225** | **Highly Flammable Liquid and Vapor** | **H301, 311, 331** | **Toxic if swallowed, skin contact, inhaled** |
| **H370** | **Cause damage to organs** | **H351** | **Suspected of causing cancer** |
| **P271** | **Use in ventilated area** | **P280** | **Use gloves, eye protection/face sheild** |
| **P302,332** | **If on skin, wash with soap and water** | **P305,351,338** | **If in eyes, remove contacts, rinse with water** |

**Signal Word: DANGER**

## Section III - Composition

| Components (Specific Chemical Identity; Common Name(s)) | | | % (optional) |
|---|---|---|---|
| Methanol | METHYL ALCOHOL | CAS#: 67-56-1 | > 97 |

**See Certified Weight Report For Other Analytes Present At Trace Quantities.**

**INTENDED USE: REFERENCE MATERIAL**

## Section IV. FIRST AID MEASURES

| | |
|---|---|
| **General advice** | Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area. |
| **If inhaled** | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **In case of skin contact** | Wash with soap and water. Consult a physician. |
| **In case of eye contact** | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| **If swallowed** | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

## Section V. FIREFIGHTING MEASURES

| | |
|---|---|
| **Flammability** | Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking. |
| **Suitable extinguishing media** | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| **Protective equipment for fire** | Wear self contained breathing apparatus for fire fighting if necessary. |

## Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

## Section VII. HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.<br>Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. |
| Storage Conditions | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

## Section IX - Physical/Chemical Characteristics

| | | | |
|---|---|---|---|
| Boiling Point | 65°C | Specific Gravity (H2O = 1) | 0.79 |
| Vapor Pressure (mm Hg) | 96 | Melting Point | -98°C |
| Vapor Density (AIR = 1) | 1.11 | Evaporation rate (Butyl Acetate = 1) | 4.6 |

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

## Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

## Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

## Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

| | |
|---|---|
| LC50 | 15,400 mg/l - 96 h |
| EC50 | 24,500.00 mg/l - 48 h |
| EC100 | 10,000.00 mg/l - 24 h |

## Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

## Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

## Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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## CERTIFIED WEIGHT REPORT

**Part Number:** 95318
**Lot Number:** 120524
**Description:** 2-Chloroethyl vinyl ether

**Expiration Date:** 120527
**Recommended Storage:** Refrigerate (4 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test ID#:** 6UTB

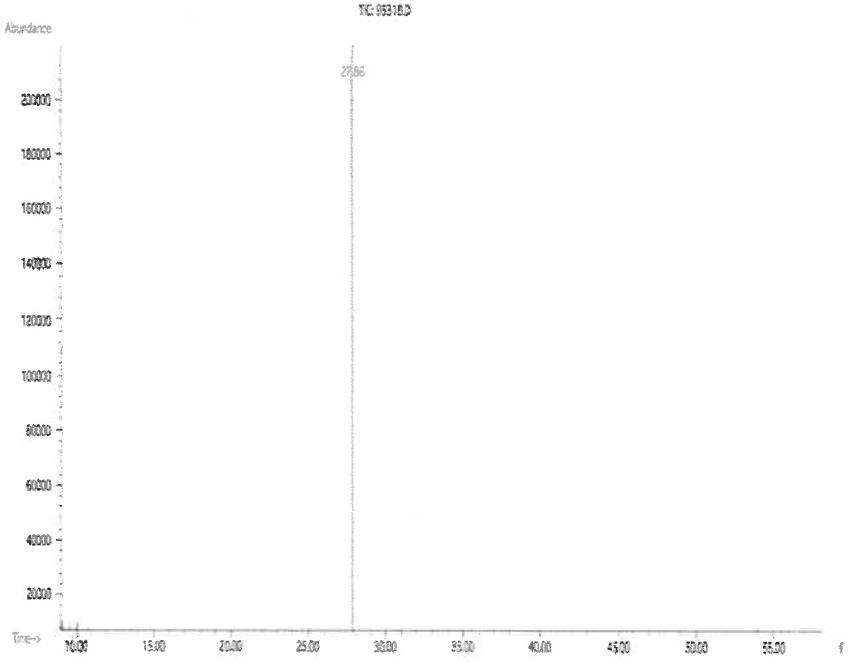
**Solvent(s):** Methanol **Lot#** EJ143-US

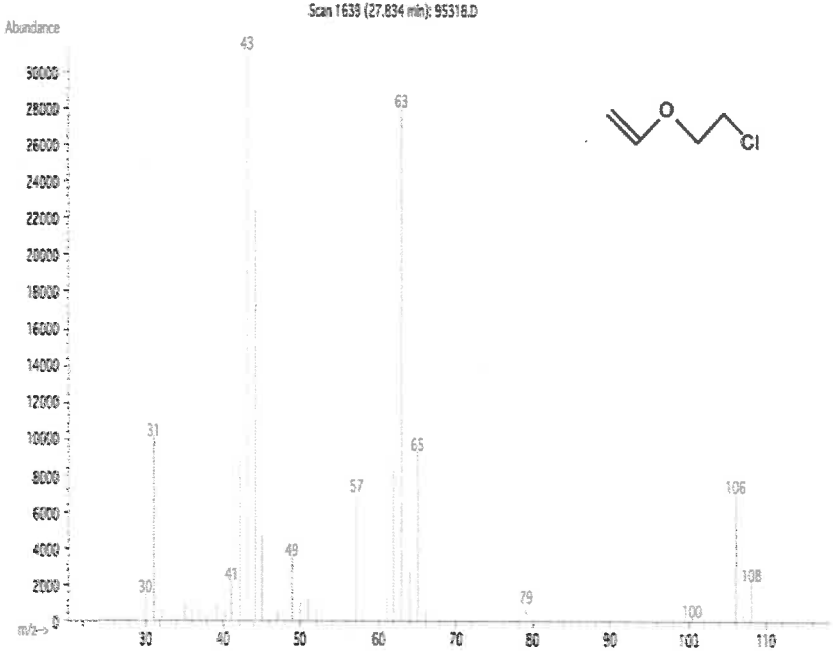
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

| | | |
|---|---|---|
| Prashant Chauhan | 120524 |
| Formulated By: Prashant Chauhan | DATE |
| Pedro Rentas | 120524 |
| Reviewed By: Pedro L. Rentas | DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight (g) | Actual Weight (g) | Actual Conc(µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. 2-Chloroethyl vinyl ether | 74 | MKCD0033 | 10000 | 99 | 0.2 | 0.50536 | 0.50550 | 10002.9 | 40.5 | 110-75-8 | N/A | ori-rat 250mg/kg |

**Method:** GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.







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**Safety Data Sheet (SDS)** GHS/OSHA Compliant

## Section I Product and Company Identification

**IDENTITY** **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

| | | | |
|---|---|---|---|
| Manufacturer's Name | ABSOLUTE STANDARDS INC | Emergency Telephone USA & CANADA | **1-800-535-5053** |
| Address | 44 Rossotto Dr.<br>Hamden CT, 06514 | Emergency Telephone International<br>Date Prepared/Revised | **1-352-323-3500**<br>January 1, 2024 |

## Section II - Hazards Identification

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

| | | | |
|---|---|---|---|
| **H225** | **Highly Flammable Liquid and Vapor** | **H301, 311, 331** | **Toxic if swallowed, skin contact, inhaled** |
| **H370** | **Cause damage to organs** | **H351** | **Suspected of causing cancer** |
| **P271** | **Use in ventilated area** | **P280** | **Use gloves, eye protection/face sheild** |
| **P302,332** | **If on skin, wash with soap and water** | **P305,351,338** | **If in eyes, remove contacts, rinse with water** |

**Signal Word: DANGER**

## Section III - Composition

| Components (Specific Chemical Identity; Common Name(s)) | | | % (optional) |
|---|---|---|---|
| Methanol | METHYL ALCOHOL | CAS#: 67-56-1 | > 97 |

**See Certified Weight Report For Other Analytes Present At Trace Quantities.**

**INTENDED USE: REFERENCE MATERIAL**

## Section IV. FIRST AID MEASURES

| | |
|---|---|
| **General advice** | Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area. |
| **If inhaled** | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **In case of skin contact** | Wash with soap and water. Consult a physician. |
| **In case of eye contact** | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| **If swallowed** | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

## Section V. FIREFIGHTING MEASURES

| | |
|---|---|
| **Flammability** | Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking. |
| **Suitable extinguishing media** | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| **Protective equipment for fire** | Wear self contained breathing apparatus for fire fighting if necessary. |

## Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

## Section VII. HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.<br>Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. |
| Storage Conditions | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

## Section IX - Physical/Chemical Characteristics

| | | | |
|---|---|---|---|
| Boiling Point | 65°C | Specific Gravity (H2O = 1) | 0.79 |
| Vapor Pressure (mm Hg) | 96 | Melting Point | -98°C |
| Vapor Density (AIR = 1) | 1.11 | Evaporation rate (Butyl Acetate = 1) | 4.6 |

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

## Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — Vapours may form explosive mixture with air.
Conditions to avoid — Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid — Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

## Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

## Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

| | |
|---|---|
| LC50 | 15,400 mg/l - 96 h |
| EC50 | 24,500.00 mg/l - 48 h |
| EC100 | 10,000.00 mg/l - 24 h |

## Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

## Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

## Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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***Certified Reference Material CRM***

Rec 12/6/24
20 vial
V14630 to
V14649

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

## CERTIFIED WEIGHT REPORT

**Part Number:** 95318
**Lot Number:** 120524
**Description:** 2-Chloroethyl vinyl ether

**Expiration Date:** 120527
**Recommended Storage:** Refrigerate (4 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test ID#:** 6UTB

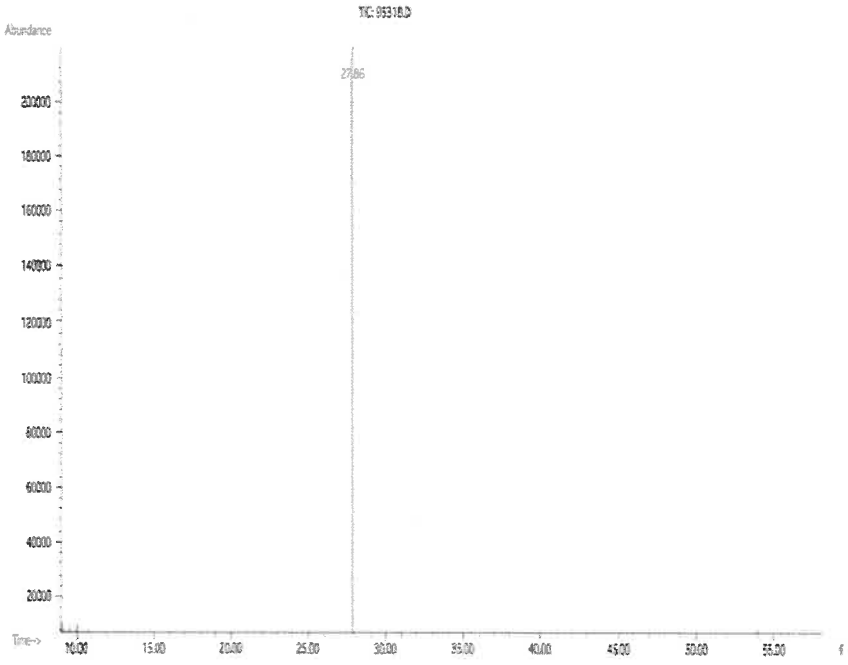
**Solvent(s):** Methanol **Lot#** EJ143-US

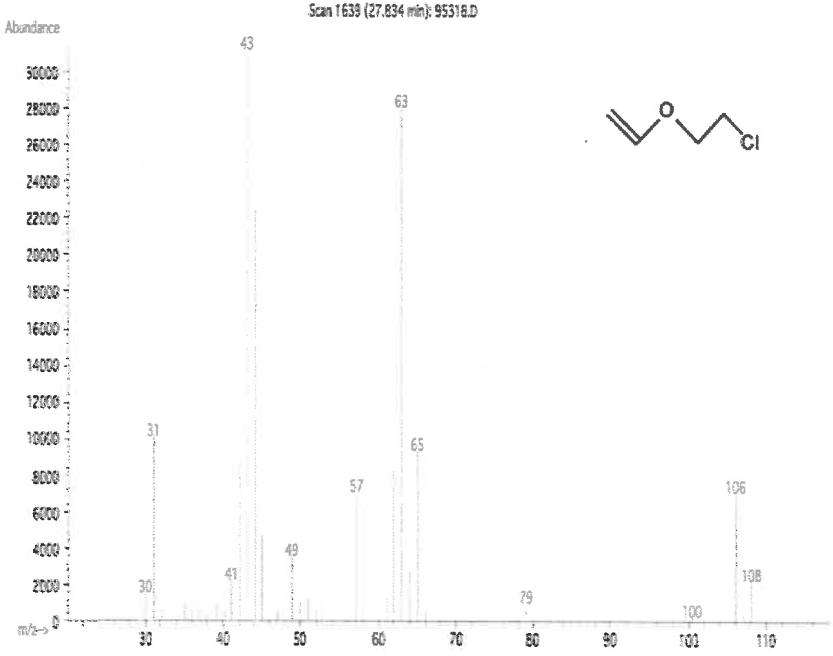
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

| | | |
|---|---|---|
| Prashant Chauhan | 120524 |
| Formulated By: Prashant Chauhan | DATE |
| Pedro Rentas | 120524 |
| Reviewed By: Pedro L. Rentas | DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight (g) | Actual Weight (g) | Actual Conc(µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. 2-Chloroethyl vinyl ether | 74 | MKCD0033 | 10000 | 99 | 0.2 | 0.50536 | 0.50550 | 10002.9 | 40.5 | 110-75-8 | N/A | ori-rat 250mg/kg |

**Method:** GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.







- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

**Safety Data Sheet (SDS)** GHS/OSHA Compliant

## Section I Product and Company Identification

**IDENTITY** **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

| | | | |
|---|---|---|---|
| Manufacturer's Name | ABSOLUTE STANDARDS INC | Emergency Telephone USA & CANADA | **1-800-535-5053** |
| Address | 44 Rossotto Dr.<br>Hamden CT, 06514 | Emergency Telephone International<br>Date Prepared/Revised | **1-352-323-3500**<br>January 1, 2024 |

## Section II - Hazards Identification

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

| | | | |
|---|---|---|---|
| **H225** | **Highly Flammable Liquid and Vapor** | **H301, 311, 331** | **Toxic if swallowed, skin contact, inhaled** |
| **H370** | **Cause damage to organs** | **H351** | **Suspected of causing cancer** |
| **P271** | **Use in ventilated area** | **P280** | **Use gloves, eye protection/face sheild** |
| **P302,332** | **If on skin, wash with soap and water** | **P305,351,338** | **If in eyes, remove contacts, rinse with water** |

**Signal Word: DANGER**

## Section III - Composition

| Components (Specific Chemical Identity; Common Name(s)) | | | % (optional) |
|---|---|---|---|
| Methanol | METHYL ALCOHOL | CAS#: 67-56-1 | > 97 |

**See Certified Weight Report For Other Analytes Present At Trace Quantities.**

**INTENDED USE: REFERENCE MATERIAL**

## Section IV. FIRST AID MEASURES

| | |
|---|---|
| **General advice** | Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area. |
| **If inhaled** | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **In case of skin contact** | Wash with soap and water. Consult a physician. |
| **In case of eye contact** | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| **If swallowed** | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

## Section V. FIREFIGHTING MEASURES

| | |
|---|---|
| **Flammability** | Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking. |
| **Suitable extinguishing media** | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| **Protective equipment for fire** | Wear self contained breathing apparatus for fire fighting if necessary. |

## Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

## Section VII. HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.<br>Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. |
| Storage Conditions | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

## Section IX - Physical/Chemical Characteristics

| | | | |
|---|---|---|---|
| Boiling Point | 65°C | Specific Gravity (H2O = 1) | 0.79 |
| Vapor Pressure (mm Hg) | 96 | Melting Point | -98°C |
| Vapor Density (AIR = 1) | 1.11 | Evaporation rate (Butyl Acetate = 1) | 4.6 |

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

## Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — Vapours may form explosive mixture with air.
Conditions to avoid — Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid — Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

## Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

## Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

| | |
|---|---|
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## Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

## Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

## Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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## CERTIFIED WEIGHT REPORT

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**Lot Number:** 120524
**Description:** 2-Chloroethyl vinyl ether

**Expiration Date:** 120527
**Recommended Storage:** Refrigerate (4 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test ID#:** 6UTB

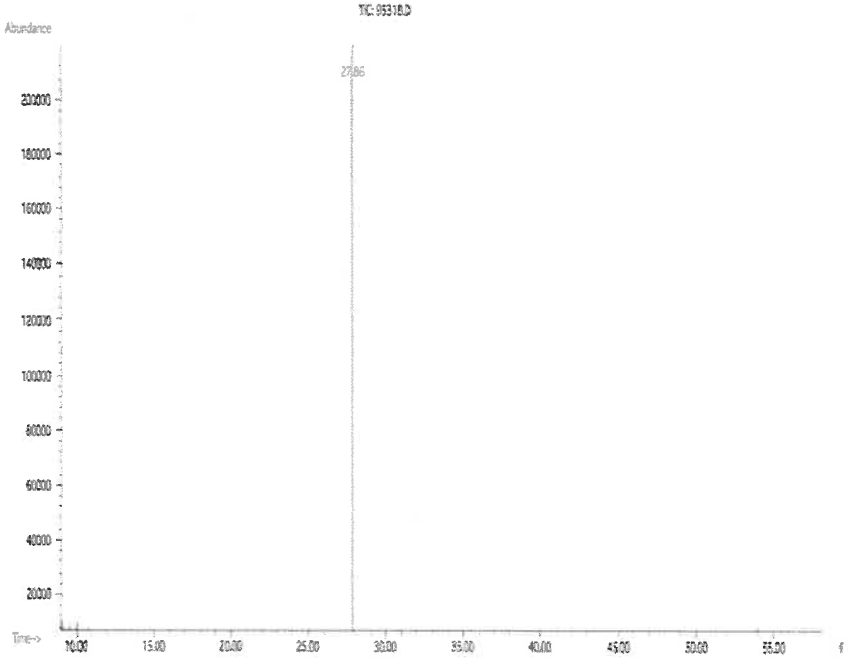
**Solvent(s):** Methanol **Lot#** EJ143-US

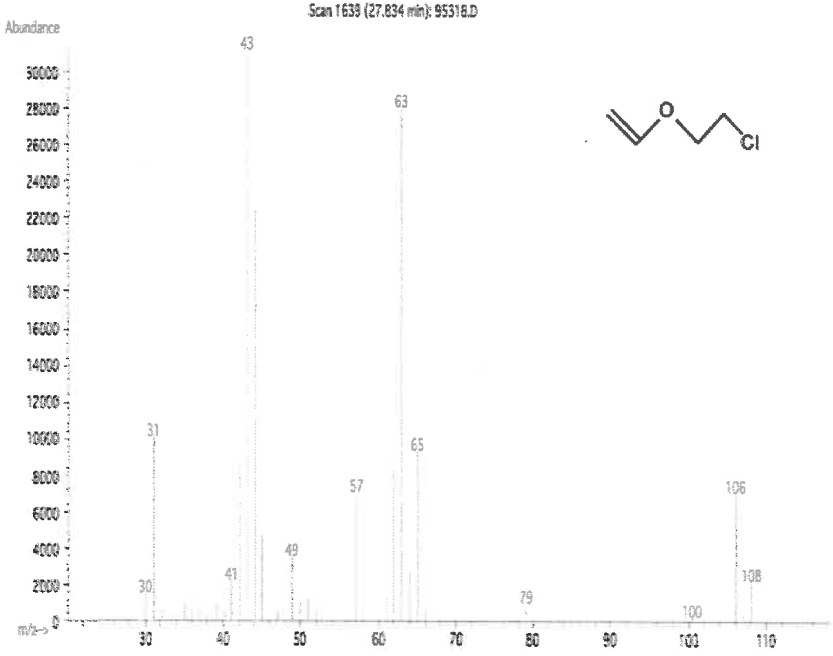
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

| | | |
|---|---|---|
| Prashant Chauhan | | 120524 |
| Formulated By: | Prashant Chauhan | DATE |
| Pedro Rentas | | 120524 |
| Reviewed By: | Pedro L. Rentas | DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight (g) | Actual Weight (g) | Actual Conc(µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. 2-Chloroethyl vinyl ether | 74 | MKCD0033 | 10000 | 99 | 0.2 | 0.50536 | 0.50550 | 10002.9 | 40.5 | 110-75-8 | N/A | ori-rat 250mg/kg |

**Method:** GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.







- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
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## Section II - Hazards Identification

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

| | | | |
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| **H225** | **Highly Flammable Liquid and Vapor** | **H301, 311, 331** | **Toxic if swallowed, skin contact, inhaled** |
| **H370** | **Cause damage to organs** | **H351** | **Suspected of causing cancer** |
| **P271** | **Use in ventilated area** | **P280** | **Use gloves, eye protection/face sheild** |
| **P302,332** | **If on skin, wash with soap and water** | **P305,351,338** | **If in eyes, remove contacts, rinse with water** |

**Signal Word: DANGER**

## Section III - Composition

| Components (Specific Chemical Identity; Common Name(s)) | | | % (optional) |
|---|---|---|---|
| Methanol | METHYL ALCOHOL | CAS#: 67-56-1 | > 97 |

**See Certified Weight Report For Other Analytes Present At Trace Quantities.**

**INTENDED USE: REFERENCE MATERIAL**

## Section IV. FIRST AID MEASURES

| | |
|---|---|
| **General advice** | Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area. |
| **If inhaled** | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **In case of skin contact** | Wash with soap and water. Consult a physician. |
| **In case of eye contact** | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| **If swallowed** | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

## Section V. FIREFIGHTING MEASURES

| | |
|---|---|
| **Flammability** | Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking. |
| **Suitable extinguishing media** | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| **Protective equipment for fire** | Wear self contained breathing apparatus for fire fighting if necessary. |

## Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

## Section VII. HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.<br>Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. |
| Storage Conditions | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

## Section IX - Physical/Chemical Characteristics

| | | | |
|---|---|---|---|
| Boiling Point | 65°C | Specific Gravity (H2O = 1) | 0.79 |
| Vapor Pressure (mm Hg) | 96 | Melting Point | -98°C |
| Vapor Density (AIR = 1) | 1.11 | Evaporation rate (Butyl Acetate = 1) | 4.6 |

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

## Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

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LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

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| | |
|---|---|
| LC50 | 15,400 mg/l - 96 h |
| EC50 | 24,500.00 mg/l - 48 h |
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## Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

## Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

## Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

4 J

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

# CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30470 **Lot No.:** A0191703

**Description :** tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2025 **Storage:** 0°C or colder

**Ship:** Ambient

## CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | |
|---|---|---|---|---|
| 1 | tert-Butanol (TBA) | 50,122.0 µg/mL | +/- 293.4753 µg/mL | Gravimetric |
| | **CAS #** 75-65-0 (Lot 101619K21F-1) | | +/- 1,073.6797 µg/mL | Unstressed |
| | **Purity** 99% | | +/- 1,104.8612 µg/mL | Stressed |

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

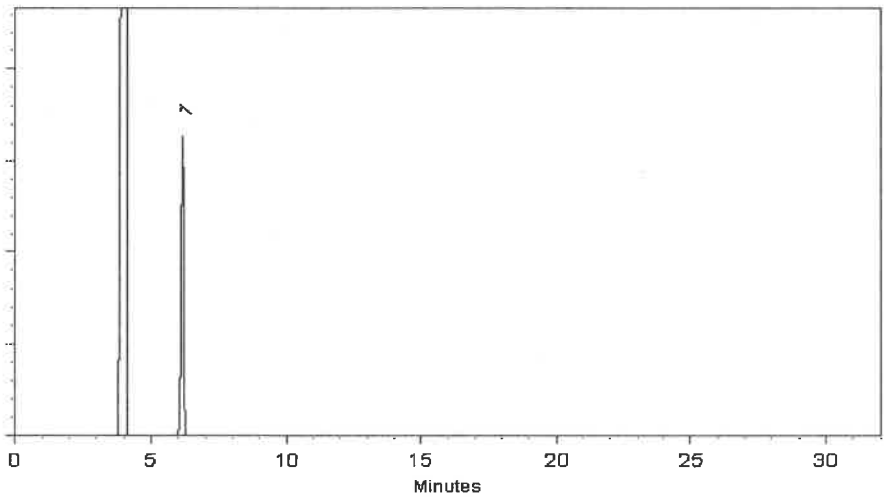
**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Alicia Leathers - Operation Technician I

**Date Mixed:** 15-Nov-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 17-Nov-2022

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

**General Certified Reference Material Notes**

**Expiration Notes:**

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

**Purity Notes:**

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

**Certified Uncertainty Value Notes:**

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value ( includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

*k* is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

| Label Conditions | Standard Conditions | Non-Standard Conditions |
|---|---|---|
| 25°C Nominal (Room Temperature) | < 60°C | ≥ 60°C up to 7 days |
| 10°C or colder (Refrigerate) | < 40°C | ≥ 40°C up to 7 days |
| 0°C or colder (Freezer)<br>-20°C or colder (Deep Freezer) | < 25°C | ≥ 25°C up to 7 days |

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

**Manufacturing Notes:**

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

**Handling Notes:**

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30067 **Lot No.:** A0191805

**Description :** 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2027 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1-Bromo-4-fluorobenzene (BFB) | 460-00-4 | 184975 | 99% | 2,483.9 µg/mL | +/- 139.5488 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

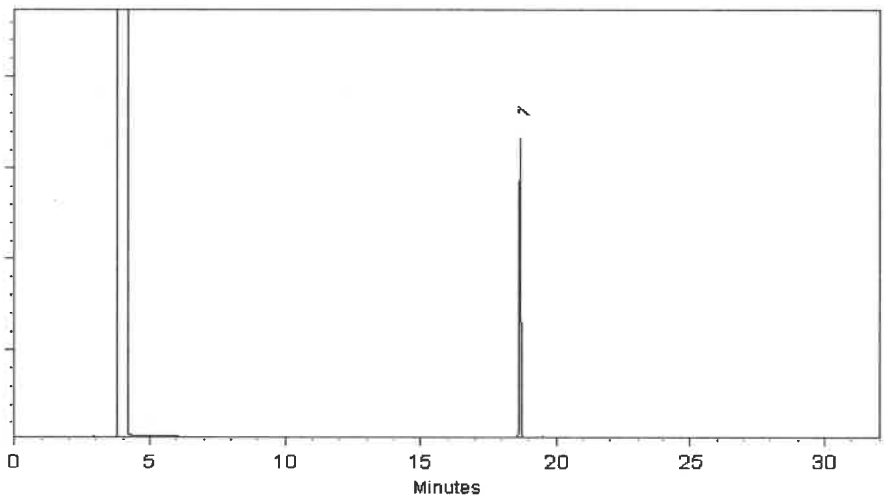
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Alicia Leathers - Operation Technician I

**Date Mixed:** 17-Nov-2022 **Balance Serial #** B251644995

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 21-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30042 **Lot No.:** A0197644

**Description :** 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** January 31, 2030 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Dichlorodifluoromethane (CFC-12) | 75-71-8 | 00012554 | 99% | 2,001.6 µg/mL | +/- 112.7159 |
| 2 | Chloromethane (methyl chloride) | 74-87-3 | SHBM9611 | 99% | 2,002.0 µg/mL | +/- 112.7840 |
| 3 | Vinyl chloride | 75-01-4 | 00015559 | 99% | 2,002.2 µg/mL | +/- 112.6713 |
| 4 | Bromomethane (methyl bromide) | 74-83-9 | 101604 | 99% | 2,006.4 µg/mL | +/- 112.8861 |
| 5 | Chloroethane (ethyl chloride) | 75-00-3 | 107-401039114-1 | 99% | 2,000.9 µg/mL | +/- 112.5990 |
| 6 | Trichlorofluoromethane (CFC-11) | 75-69-4 | MKCL8411 | 99% | 1,999.2 µg/mL | +/- 112.4861 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

# Quality Confirmation Test

**Column:**
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

**Carrier Gas:**
helium-constant flow 2.0 mL/min.

**Temp. Program:**
40°C (hold 6 min.) to 100°C
@ 6°C/min.

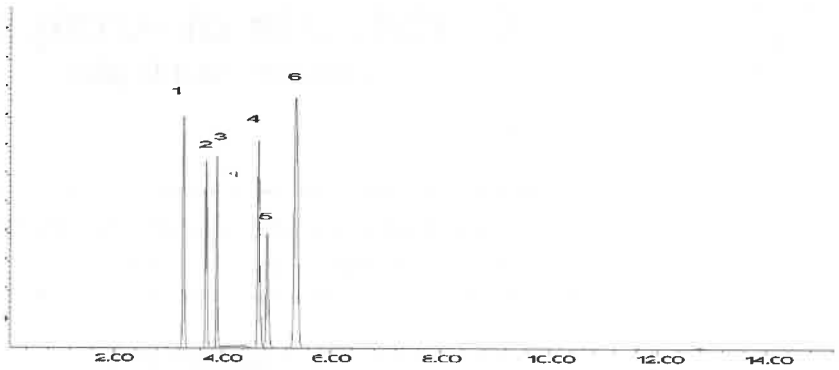
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
MSD

**Split Vent:**
Split ratio 10:1

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

**Date Mixed:** 02-May-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 08-May-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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# Certificate of Analysis

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ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30006 **Lot No.:** A0200785

**Description :** VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2026 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Acetone | 67-64-1 | SHBP8774 | 99% | 5,018.5 µg/mL | +/- 173.4162 |
| 2 | 2-Butanone (MEK) | 78-93-3 | SHBL5543 | 99% | 5,016.0 µg/mL | +/- 173.3298 |
| 3 | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | SHBP4724 | 99% | 5,010.7 µg/mL | +/- 173.1455 |
| 4 | 2-Hexanone | 591-78-6 | MKCQ6663 | 99% | 5,015.0 µg/mL | +/- 173.2952 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol/Water (90:10)
**CAS #** 67-56-1/7732-18-5
**Purity** 99%

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

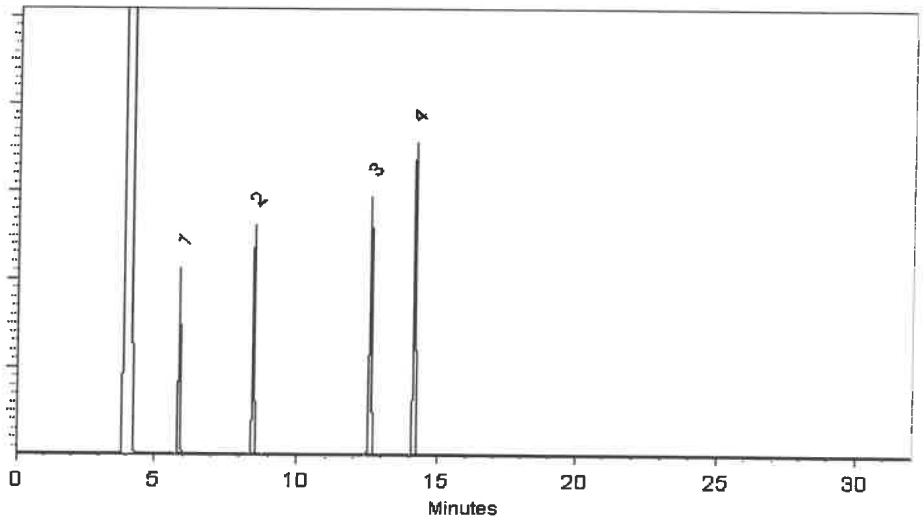
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I

**Date Mixed:** 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC

**Date Passed:** 16-Aug-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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# Certificate of Analysis

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30489 **Lot No.:** A0209618

**Description :** 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** September 30, 2025 **Storage:** -20°C or colder

**Handling:** This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Methyl acetate | 79-20-9 | SHBP3100 | 99% | 2,019.3 µg/mL | +/- 69.7974 |
| 2 | Vinyl acetate | 108-05-4 | RP231030CTH | 98% | 2,016.8 µg/mL | +/- 69.7112 |
| 3 | Ethyl acetate | 141-78-6 | SHBQ9682 | 99% | 2,010.7 µg/mL | +/- 69.4979 |
| 4 | Isopropyl acetate | 108-21-4 | BCCG7069 | 99% | 2,016.0 µg/mL | +/- 69.6822 |
| 5 | Propyl acetate | 109-60-4 | P8XLN | 99% | 2,008.0 µg/mL | +/- 69.4057 |
| 6 | Butyl acetate | 123-86-4 | SHBP6314 | 99% | 2,007.3 µg/mL | +/- 69.3826 |
| 7 | Amyl acetate | 628-63-7 | 41325/1 | 97% | 2,004.7 µg/mL | +/- 69.2905 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

**Tech Tips:**

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

## Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

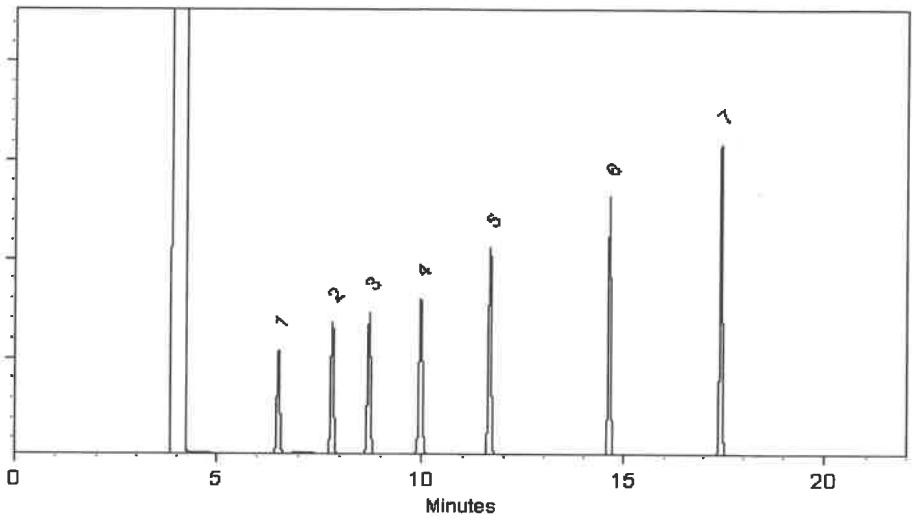
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

**Date Mixed:** 28-Mar-2024 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

**Date Passed:** 01-Apr-2024

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

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Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30489 **Lot No.:** A0209618

**Description :** 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** September 30, 2025 **Storage:** -20°C or colder

**Handling:** This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Methyl acetate | 79-20-9 | SHBP3100 | 99% | 2,019.3 µg/mL | +/- 69.7974 |
| 2 | Vinyl acetate | 108-05-4 | RP231030CTH | 98% | 2,016.8 µg/mL | +/- 69.7112 |
| 3 | Ethyl acetate | 141-78-6 | SHBQ9682 | 99% | 2,010.7 µg/mL | +/- 69.4979 |
| 4 | Isopropyl acetate | 108-21-4 | BCCG7069 | 99% | 2,016.0 µg/mL | +/- 69.6822 |
| 5 | Propyl acetate | 109-60-4 | P8XLN | 99% | 2,008.0 µg/mL | +/- 69.4057 |
| 6 | Butyl acetate | 123-86-4 | SHBP6314 | 99% | 2,007.3 µg/mL | +/- 69.3826 |
| 7 | Amyl acetate | 628-63-7 | 41325/1 | 97% | 2,004.7 µg/mL | +/- 69.2905 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

**Tech Tips:**

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

## Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

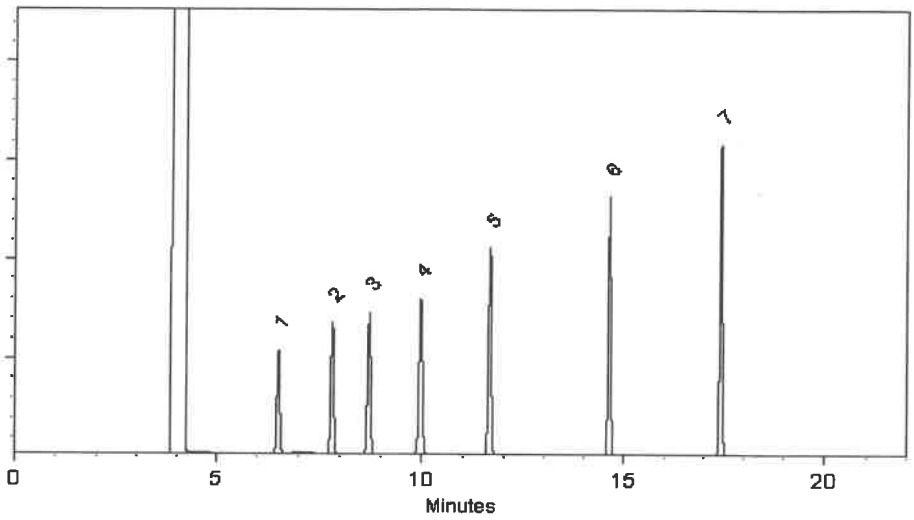
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

**Date Mixed:** 28-Mar-2024 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

**Date Passed:** 01-Apr-2024

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

# General Certified Reference Material Notes

## Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

## Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

## Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

## Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

## Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

***gravimetric***

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555581 **Lot No.:** A0210184

**Description :** Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** April 30, 2027 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,4-Dichlorobenzene-d4 | 3855-82-1 | PR-30447 | 99% | 25,212.0 µg/mL | +/- 1,427.8857 |
| 2 | 1,4-Difluorobenzene | 540-36-3 | MKCS8657 | 99% | 25,220.0 µg/mL | +/- 1,428.3388 |
| 3 | Chlorobenzene-d5 | 3114-55-4 | PR-31132 | 99% | 25,116.0 µg/mL | +/- 1,422.4487 |
| 4 | Pentafluorobenzene | 363-72-4 | MKCR9383 | 99% | 25,180.0 µg/mL | +/- 1,426.0734 |

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

John Friedline - Operations Technician I

**Date Mixed:** 11-Apr-2024 **Balance:** 1127510105

REVIEWED

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

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  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.

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### Manufacturing Notes:

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CERTIFIED REFERENCE MATERIAL

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# Certificate of Analysis

*chromatographic plus*

V14697-to-14726

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Reference Material Producer
Certificate #3222.01

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30006 **Lot No.:** A0210618

**Description :** VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2027 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Acetone | 67-64-1 | SHBQ8504 | 99% | 5,014.8 µg/mL | +/- 173.2883 |
| 2 | 2-Butanone (MEK) | 78-93-3 | SHBQ4704 | 99% | 5,012.4 µg/mL | +/- 173.2054 |
| 3 | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | SHBP9200 | 99% | 5,011.6 µg/mL | +/- 173.1777 |
| 4 | 2-Hexanone | 591-78-6 | MKCQ6663 | 99% | 5,013.0 µg/mL | +/- 173.2261 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol/Water (90:10)
**CAS #** 67-56-1/7732-18-5
**Purity** 99%

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

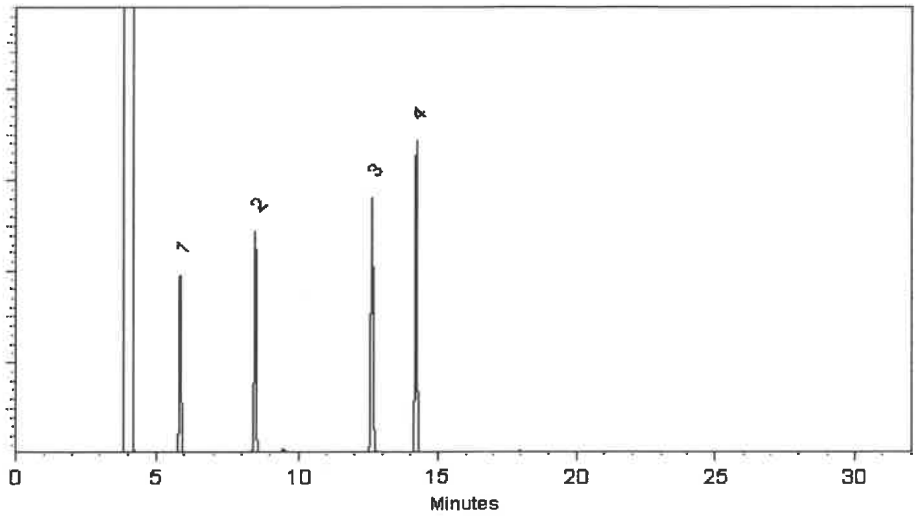
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I

**Date Mixed:** 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 24-Apr-2024

**Manufactured under Restek's ISO 9001:2015**
**Registered Quality System**
**Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

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- Purity values are rounded to the nearest whole number.

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  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
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### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

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# Certificate of Analysis

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Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30006 **Lot No.:** A0210618

**Description :** VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2027 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Acetone | 67-64-1 | SHBQ8504 | 99% | 5,014.8 µg/mL | +/- 173.2883 |
| 2 | 2-Butanone (MEK) | 78-93-3 | SHBQ4704 | 99% | 5,012.4 µg/mL | +/- 173.2054 |
| 3 | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | SHBP9200 | 99% | 5,011.6 µg/mL | +/- 173.1777 |
| 4 | 2-Hexanone | 591-78-6 | MKCQ6663 | 99% | 5,013.0 µg/mL | +/- 173.2261 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol/Water (90:10)
**CAS #** 67-56-1/7732-18-5
**Purity** 99%

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

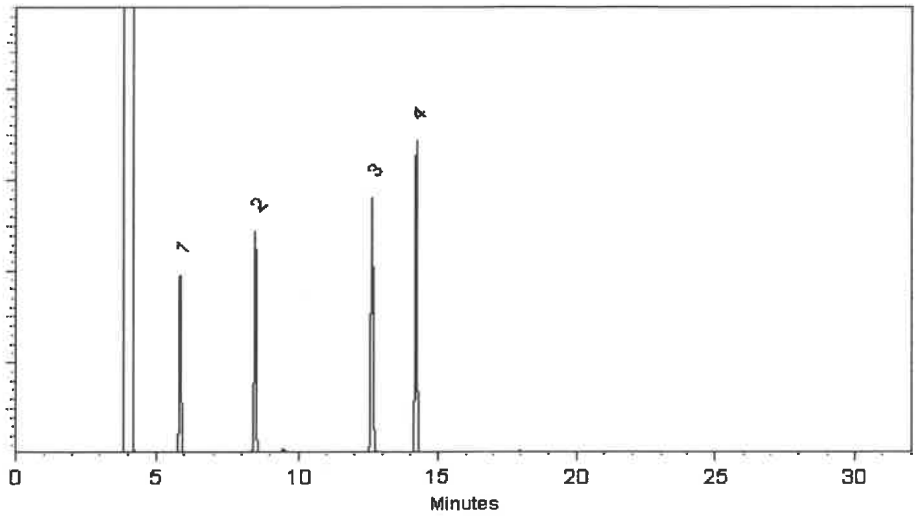
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Dakota Parson - Operations Technician I

**Date Mixed:** 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 24-Apr-2024

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

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Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

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# Certificate of Analysis

*chromatographic plus*

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ACCREDITED
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Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

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**Catalog No. :** 30006 **Lot No.:** A0210618

**Description :** VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2027 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Acetone | 67-64-1 | SHBQ8504 | 99% | 5,014.8 µg/mL | +/- 173.2883 |
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* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol/Water (90:10)
**CAS #** 67-56-1/7732-18-5
**Purity** 99%

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

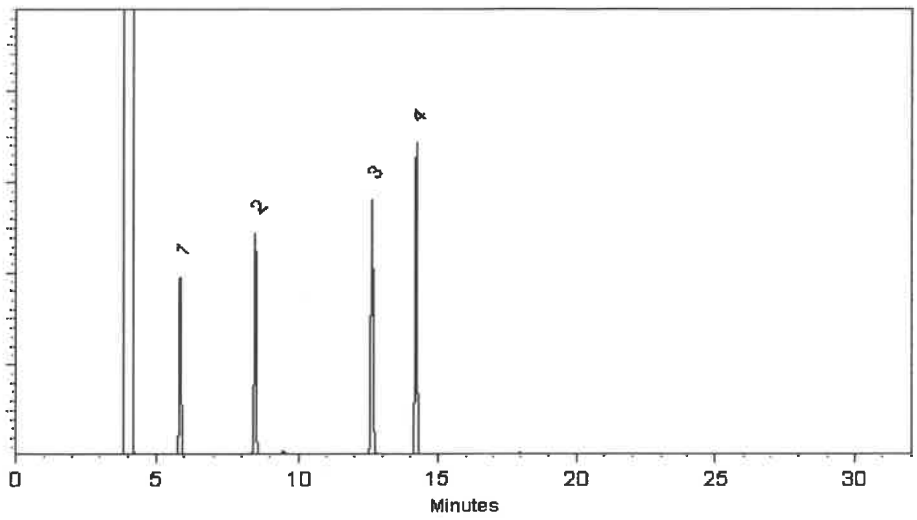
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl

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Dakota Parson - Operations Technician I

**Date Mixed:** 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 24-Apr-2024

**Manufactured under Restek's ISO 9001:2015**
**Registered Quality System**
**Certificate #FM 80397**

## General Certified Reference Material Notes

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10 vial.

# CERTIFIED REFERENCE MATERIAL

Rec: 12/09/24

# Certificate of Analysis

***chromatographic plus***

V14667 to
V14676

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Testing Laboratory
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**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

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**Catalog No. :** 30225 **Lot No.:** A0214960

**Description :** Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** August 31, 2029 **Storage:** 0°C or colder

**Ship:** Ambient

**CERTIFIED VALUES**

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Bromochloromethane | 74-97-5 | SYN240416CTH | 99% | 2,012.0 µg/mL | +/- 113.0519 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

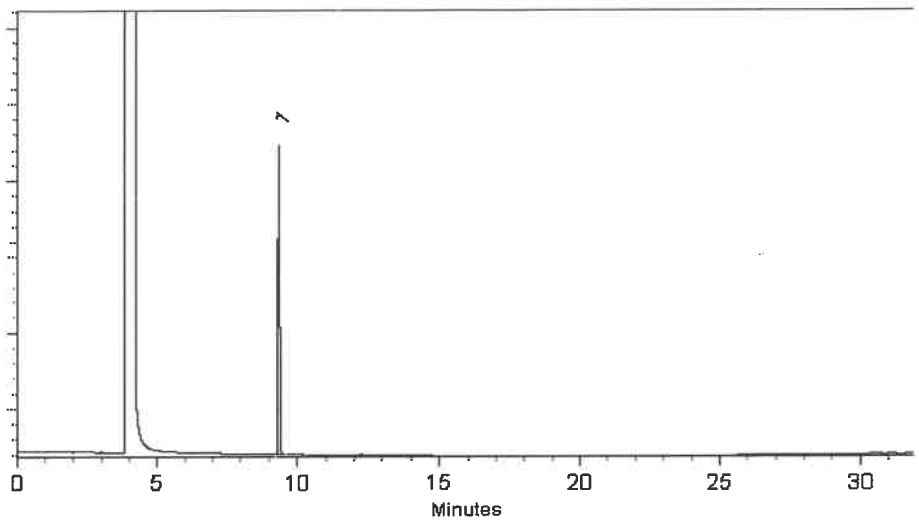
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl

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Stacey Wanner - Operations Technician I

**Date Mixed:** 08-Aug-2024 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 14-Aug-2024

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

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- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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10 vial.

# CERTIFIED REFERENCE MATERIAL

Rec: 12/09/24

# Certificate of Analysis

***chromatographic plus***

V14667 to
V14676

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ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30225 **Lot No.:** A0214960

**Description :** Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** August 31, 2029 **Storage:** 0°C or colder

**Ship:** Ambient

**CERTIFIED VALUES**

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Bromochloromethane | 74-97-5 | SYN240416CTH | 99% | 2,012.0 µg/mL | +/- 113.0519 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

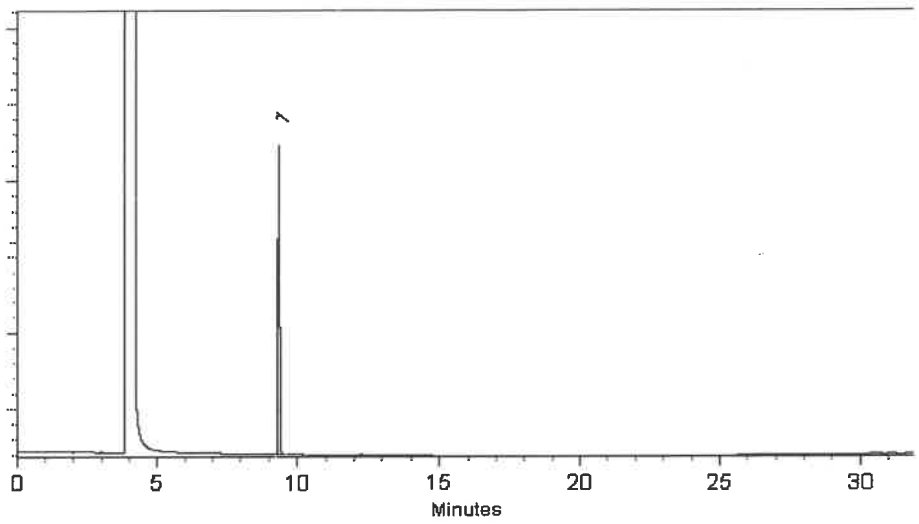
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

**Date Mixed:** 08-Aug-2024 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 14-Aug-2024

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

*k* is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 Vial

# Certificate of Analysis

***chromatographic plus***

V14727 to
V14756

ACCREDITED
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Reference Material Producer
Certificate #3222.01

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Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30042 **Lot No.:** A0216826

**Description :** 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** May 31, 2031 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Dichlorodifluoromethane (CFC-12) | 75-71-8 | 00022922 | 99% | 2,000.9 µg/mL | +/- 112.4144 |
| 2 | Chloromethane (methyl chloride) | 74-87-3 | 00022694 | 99% | 2,000.7 µg/mL | +/- 112.3998 |
| 3 | Vinyl chloride | 75-01-4 | 00015559 | 99% | 2,000.3 µg/mL | +/- 112.3779 |
| 4 | Bromomethane (methyl bromide) | 74-83-9 | 00017022 | 99% | 2,001.8 µg/mL | +/- 112.4650 |
| 5 | Chloroethane (ethyl chloride) | 75-00-3 | 107-401039114-1 | 99% | 2,000.1 µg/mL | +/- 112.3700 |
| 6 | Trichlorofluoromethane (CFC-11) | 75-69-4 | MKCJ8658 | 99% | 2,000.7 µg/mL | +/- 112.3992 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

# Quality Confirmation Test

**Column:**
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

**Carrier Gas:**
helium-constant flow 2.0 mL/min.

**Temp. Program:**
40°C (hold 6 min.) to 100°C
@ 6°C/min.

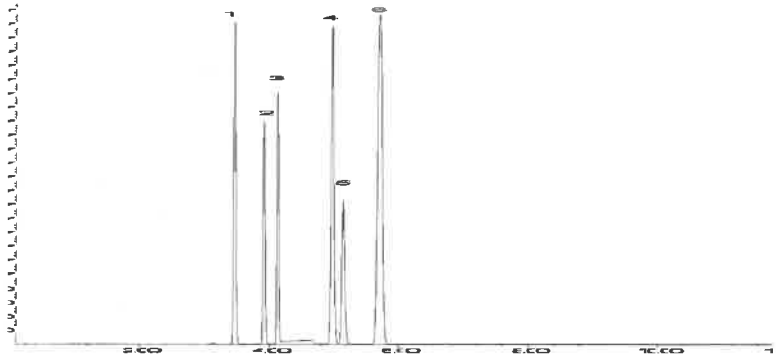
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
MSD

**Split Vent:**
Split ratio 10:1

**Inj. Vol**
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

**Date Mixed:** 23-Sep-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 04-Oct-2024

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 Vial

# Certificate of Analysis

***chromatographic plus***

V14727 to
V14756

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30042 **Lot No.:** A0216826

**Description :** 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** May 31, 2031 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Dichlorodifluoromethane (CFC-12) | 75-71-8 | 00022922 | 99% | 2,000.9 µg/mL | +/- 112.4144 |
| 2 | Chloromethane (methyl chloride) | 74-87-3 | 00022694 | 99% | 2,000.7 µg/mL | +/- 112.3998 |
| 3 | Vinyl chloride | 75-01-4 | 00015559 | 99% | 2,000.3 µg/mL | +/- 112.3779 |
| 4 | Bromomethane (methyl bromide) | 74-83-9 | 00017022 | 99% | 2,001.8 µg/mL | +/- 112.4650 |
| 5 | Chloroethane (ethyl chloride) | 75-00-3 | 107-401039114-1 | 99% | 2,000.1 µg/mL | +/- 112.3700 |
| 6 | Trichlorofluoromethane (CFC-11) | 75-69-4 | MKCJ8658 | 99% | 2,000.7 µg/mL | +/- 112.3992 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

# Quality Confirmation Test

**Column:**
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

**Carrier Gas:**
helium-constant flow 2.0 mL/min.

**Temp. Program:**
40°C (hold 6 min.) to 100°C
@ 6°C/min.

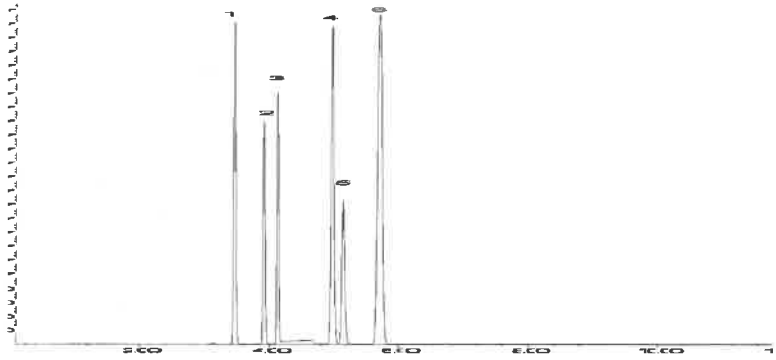
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
MSD

**Split Vent:**
Split ratio 10:1

**Inj. Vol**
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

**Date Mixed:** 23-Sep-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 04-Oct-2024

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

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CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

# Certificate of Analysis

***chromatographic plus***

J14842 to 14846

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30470 **Lot No.:** A0217535

**Description :** tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** October 31, 2027 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | tert-Butanol (TBA) | 75-65-0 | SHBQ8002-1 | 99% | 50,007.5 µg/mL | +/- 717.6137 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

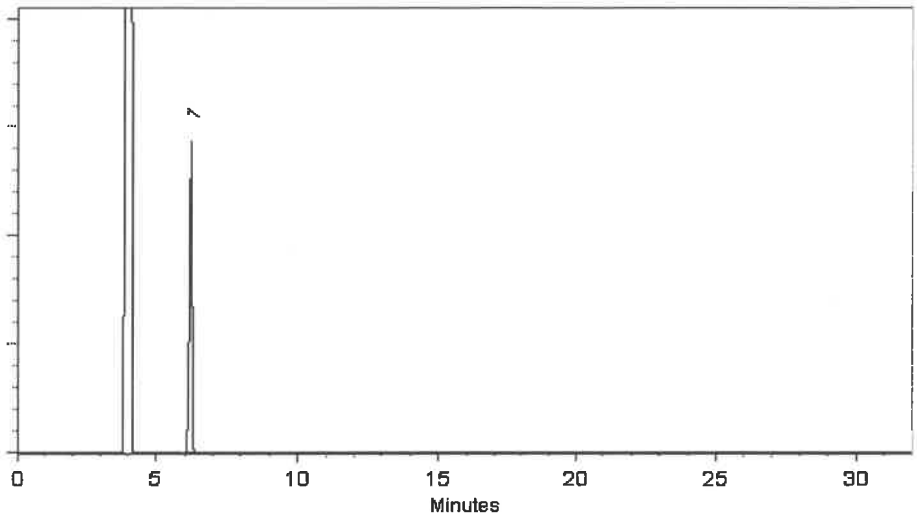
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Aaron Enyart - Operations Tech I

**Date Mixed:** 07-Oct-2024 **Balance Serial #** B251644995

Brittany Federinko - Operations Tech I

**Date Passed:** 09-Oct-2024

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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Zoviy Rec 01/08/21

CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic*

V14803 - V14822

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555408-SL **Lot No.:** A0220471

**Description :** Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** June 30, 2026 **Storage:** -20°C or colder

**Handling:** This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Vinyl acetate | 108-05-4 | RD240423RSR | 99% | 8,066.0 µg/mL | +/- 278.7979 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

**Tech Tips:**

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

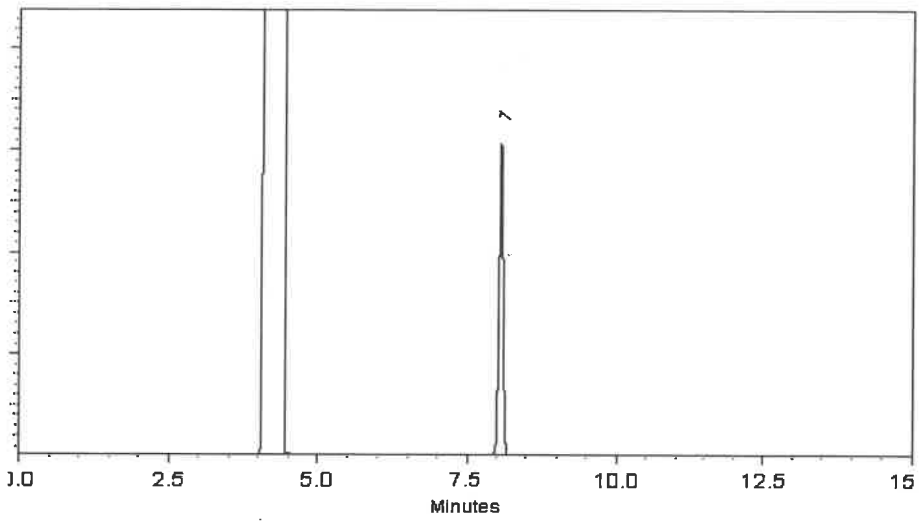
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

**Date Mixed:** 24-Dec-2024 **Balance Serial #** 1127510105

Dillan Murphy - Operations Technician I

**Date Passed:** 02-Jan-2025

REVIEWED

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
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Zoviy Rec 01/08/21

CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic*

V14803 - V14822

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555408-SL **Lot No.:** A0220471

**Description :** Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** June 30, 2026 **Storage:** -20°C or colder

**Handling:** This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Vinyl acetate | 108-05-4 | RD240423RSR | 99% | 8,066.0 µg/mL | +/- 278.7979 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

**Tech Tips:**

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

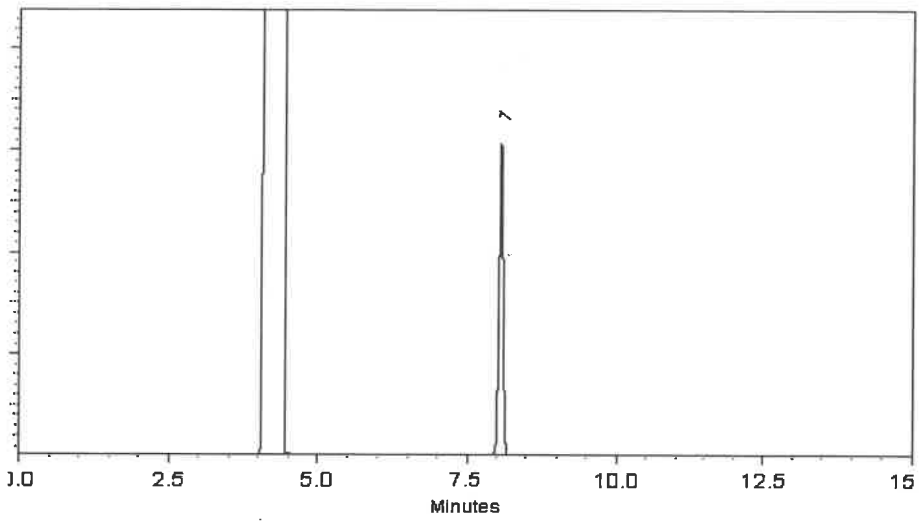
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

**Date Mixed:** 24-Dec-2024 **Balance Serial #** 1127510105

Dillan Murphy - Operations Technician I

**Date Passed:** 02-Jan-2025

REVIEWED

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

10 vial Rec 01/08/25

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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic*

V14793 to 14802

ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555408-FL **Lot No.:** A0220563

**Description :** Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** June 30, 2026 **Storage:** -20°C or colder

**Handling:** This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Vinyl acetate | 108-05-4 | RD240423RSR | 99% | 8,060.0 µg/mL | +/- 278.5905 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

**Tech Tips:**

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

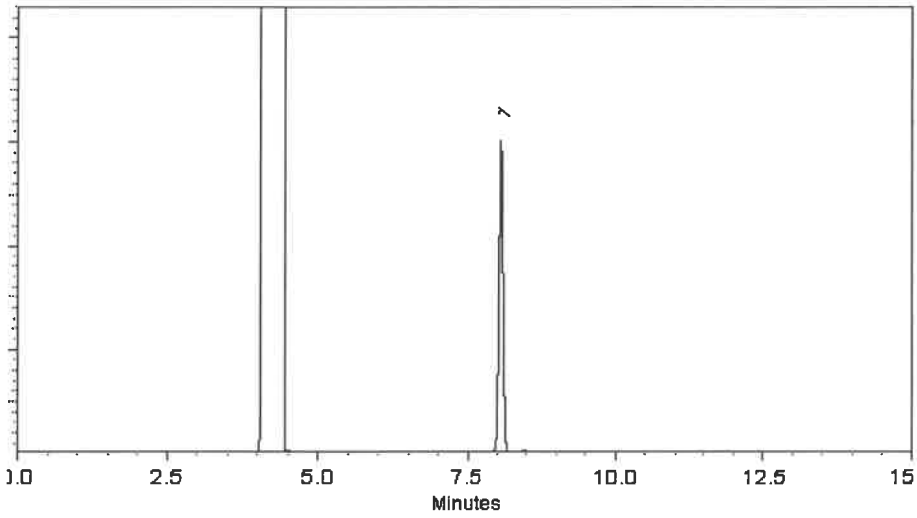
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

**Date Mixed:** 30-Dec-2024 **Balance Serial #** B345965662

Dillan Murphy - Operations Technician I

**Date Passed:** 02-Jan-2025

REVIEWED

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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10 vial

# CERTIFIED REFERENCE MATERIAL

Lee 03/31/25

# Certificate of Analysis

***gravimetric***

V14904 to V14913

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555582 **Lot No.:** A0223904

**Description :** Custom 8260A/B Surrogate Mix

Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** March 31, 2028 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,2-Dichloroethane-d4 | 17060-07-0 | PR-33313 | 99% | 25,108.0 µg/mL | +/- 1,421.9957 |
| 2 | 1-Bromo-4-fluorobenzene (BFB) | 460-00-4 | 0000268853 | 99% | 25,108.0 µg/mL | +/- 1,421.9957 |
| 3 | Dibromofluoromethane | 1868-53-7 | VENKAT02 | 99% | 25,232.0 µg/mL | +/- 1,429.0184 |
| 4 | Toluene-d8 | 2037-26-5 | PR-34141 | 99% | 25,156.0 µg/mL | +/- 1,424.7141 |

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

Brittany Federinko - Operations Tech I

**Date Mixed:** 27-Mar-2025 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

# General Certified Reference Material Notes

## Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

## Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

## Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

## Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

## Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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*Certified Reference Material CRM*

ANAB ISO 17034 Accredite
AR-1539 Certificate Number
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## CERTIFIED WEIGHT REPORT

**Part Number:** 70046
**Lot Number:** 070122
**Description:** Bromochloromethane

**Solvent:** Methanol **Lot#** EC592-US

**Expiration Date:** 070127
**Recommended Storage:** Refrigerate (4 °C)
**Nominal Concentration (µg/mL):** 1000
**NIST Test ID#:** 6UTB

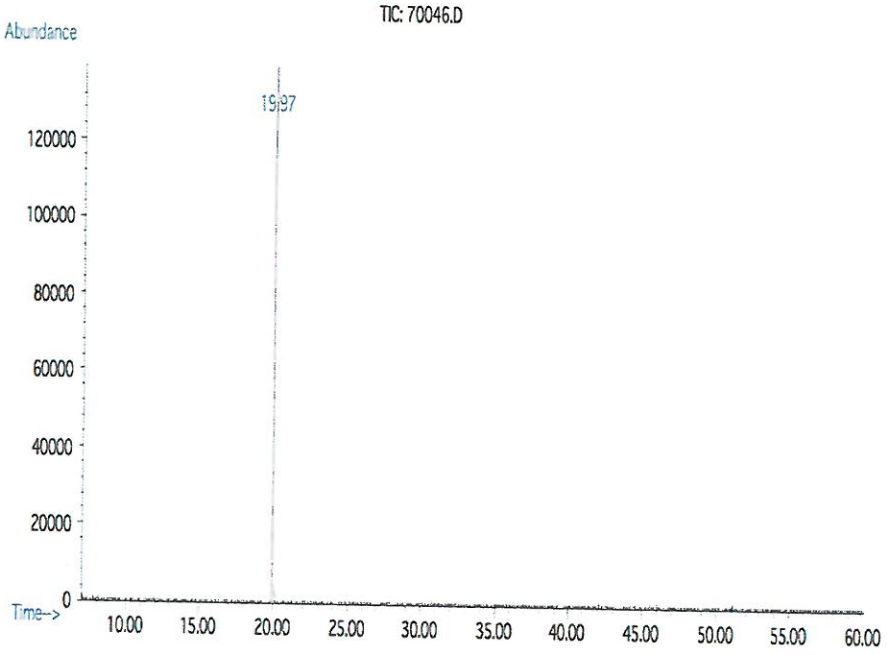
Weight(s) shown below were combined and diluted to (mL): 25.0

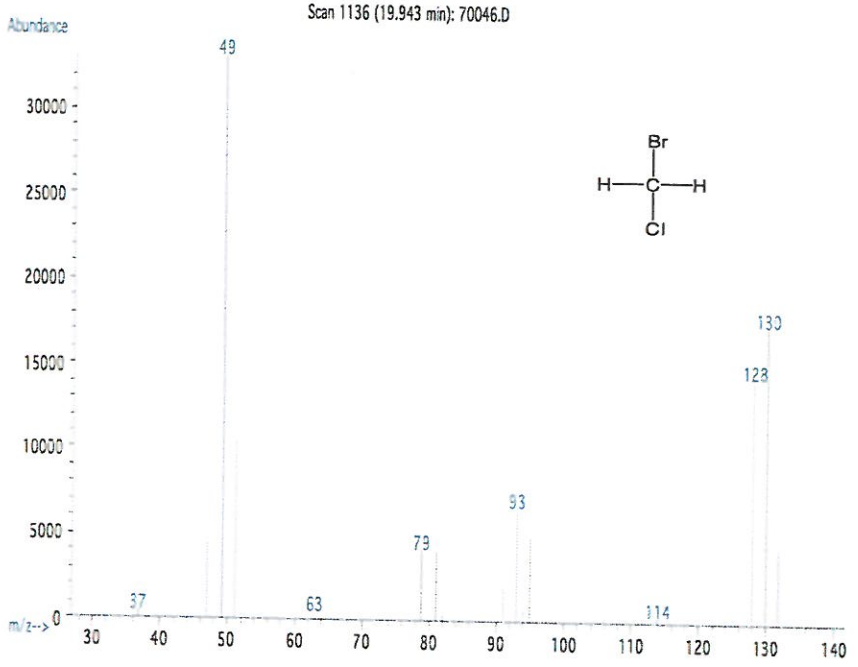
5E-05 Balance Uncertainty
0.0002 Flask Uncertainty

| | | |
|---|---|---|
| Gabriel Helland | | 070122 |
| Formulated By: | Gabriel Helland | DATE |
| Pedro Rentas | | 070122 |
| Reviewed By: | Pedro L. Rentas | DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity (%) | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Bromochloromethane | 46 | AY01 | 1000 | 99 | 0.2 | 0.02530 | 0.02540 | 1004.1 | 5.7 | 74-97-5 | 200 ppm (1050mg/m3/8H) | orl-rat 5000mg/kg |

**Method GC6MSD-1.M:** Column : (60m X 0.25mm X 1.5 µm) Temp 1 = 35°C (10min.), Temp 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector B= 200°C, Detector B = 220°C. Analyst: Candice Warren




- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rec 05/09/25

avantor™ | J.T.Baker®

V14921 to
V14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($CH_3OH$) (by GC, corrected for water) | ≥ 99.9 % | 100.0 % |
| Residue after Evaporation | ≤ 1.0 ppm | 0.3 ppm |
| Titrable Acid (µeq/g) | ≤ 0.3 | 0.3 |
| Titrable Base (µeq/g) | ≤ 0.10 | 0.03 |
| Water (by KF, coulometric) | ≤ 0.08 % | < 0.01 % |
| Volatile Organic Trace Analysis – Below EPA 8260B CRQL | Conforms | Conforms |

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rec 05/09/25

avantor™ | J.T.Baker®

V14921 to
V14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($CH_3OH$) (by GC, corrected for water) | ≥ 99.9 % | 100.0 % |
| Residue after Evaporation | ≤ 1.0 ppm | 0.3 ppm |
| Titrable Acid (µeq/g) | ≤ 0.3 | 0.3 |
| Titrable Base (µeq/g) | ≤ 0.10 | 0.03 |
| Water (by KF, coulometric) | ≤ 0.08 % | < 0.01 % |
| Volatile Organic Trace Analysis – Below EPA 8260B CRQL | Conforms | Conforms |

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

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Bellefonte, PA 16823-8812
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Dec 05/19/25

# CERTIFIED REFERENCE MATERIAL

10 vial

# Certificate of Analysis

***chromatographic plus***

V14971 to V14980

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Certificate #3222.01

ilac-MRA
A2LA ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30489 **Lot No.:** A0220531

**Description :** 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** June 30, 2026 **Storage:** -20°C or colder

**Handling:** This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Methyl acetate | 79-20-9 | SHBR1889 | 99% | 2,018.7 µg/mL | +/- 69.7744 |
| 2 | Vinyl acetate | 108-05-4 | RD240423RSR | 99% | 2,014.7 µg/mL | +/- 69.6361 |
| 3 | Ethyl acetate | 141-78-6 | SHBR4534 | 99% | 2,010.7 µg/mL | +/- 69.4979 |
| 4 | Isopropyl acetate | 108-21-4 | BCCG7069 | 99% | 2,010.7 µg/mL | +/- 69.4979 |
| 5 | Propyl acetate | 109-60-4 | P8XLN | 99% | 2,017.3 µg/mL | +/- 69.7283 |
| 6 | Butyl acetate | 123-86-4 | SHBR2024 | 99% | 2,010.7 µg/mL | +/- 69.4979 |
| 7 | Amyl acetate | 628-63-7 | BCBT7442 | 99% | 2,017.3 µg/mL | +/- 69.7283 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

**Tech Tips:**

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

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*Certified Reference Material CRM*

Rec 07/17/25 5 vial

ANAB ISO 17034 Accredite
AR-1539 Certificate Number
https://Absolutestandards.co

## CERTIFIED WEIGHT REPORT

**Part Number:** 91980
Lot Number: 071625
Description: Acrolein

Expiration Date: 081625
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

**Solvent(s):** **Lot#**
Water 041725Q

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

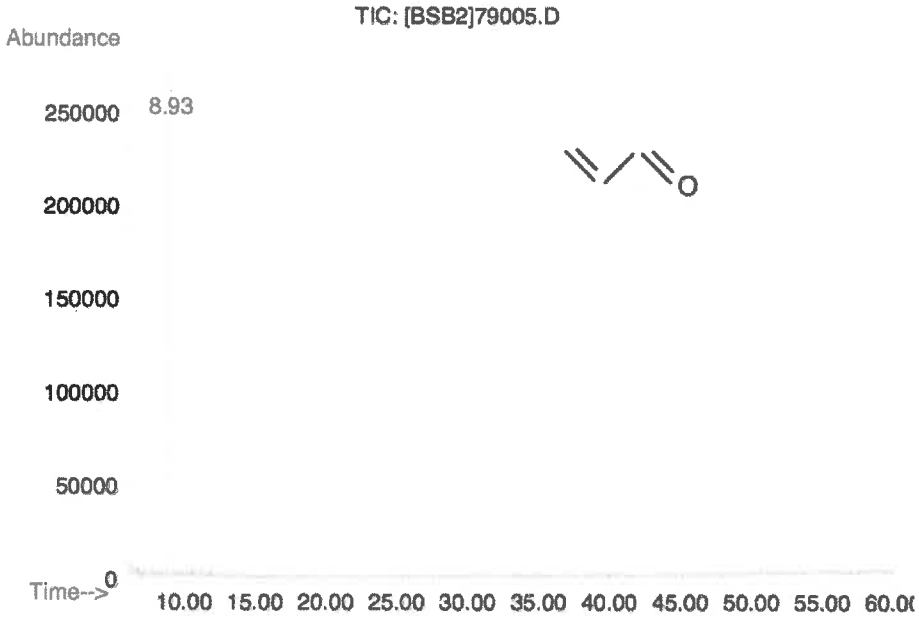
V15050 to
V15054 ~~V15056~~

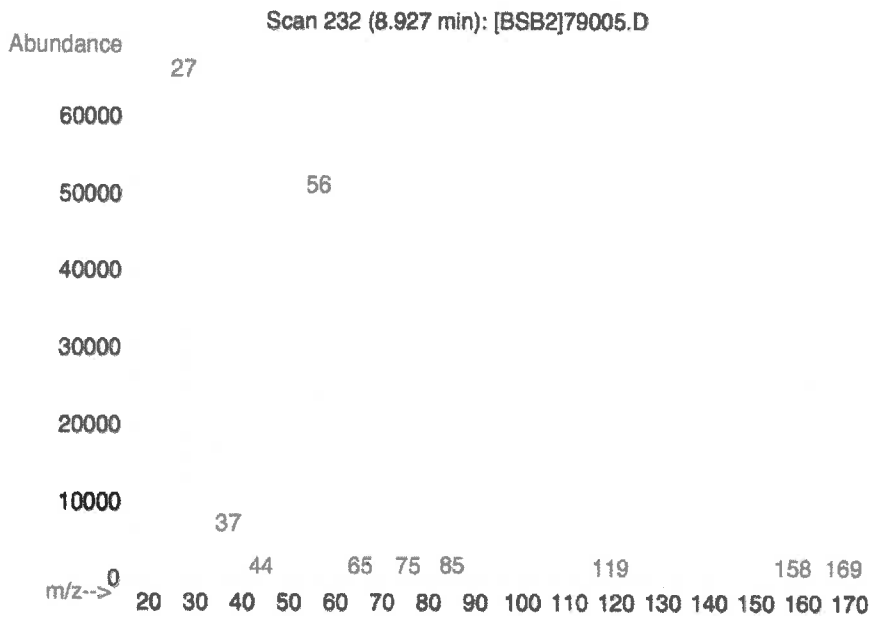
Gabriel Helland 071625
Formulated By: Gabriel Helland DATE

Pedro Rentas 071625
Reviewed By: Pedro L. Rentas DATE

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Acrolein | 5 | 103755V10F | 5000 | 97 | 0.5 | 0.05166 | 0.05181 | 5014.7 | 52.6 | 107-02-8 | 0.1 ppm | orl-rat 46mg/kg |

**Method:** GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.). Temp. 2=200°C ( Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.




- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Rev 1.0, 2/25/2025

**Absolute Standards, Inc.**
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*Certified Reference Material CRM*

Rec 07/17/25 5 vial

ANAB ISO 17034 Accredite
AR-1539 Certificate Number
https://Absolutestandards.co

## CERTIFIED WEIGHT REPORT

**Part Number:** 91980
Lot Number: 071625
Description: Acrolein

Expiration Date: 081625
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

**Solvent(s):** **Lot#**
Water 041725Q

V15050 to
V15054 ~~V15056~~

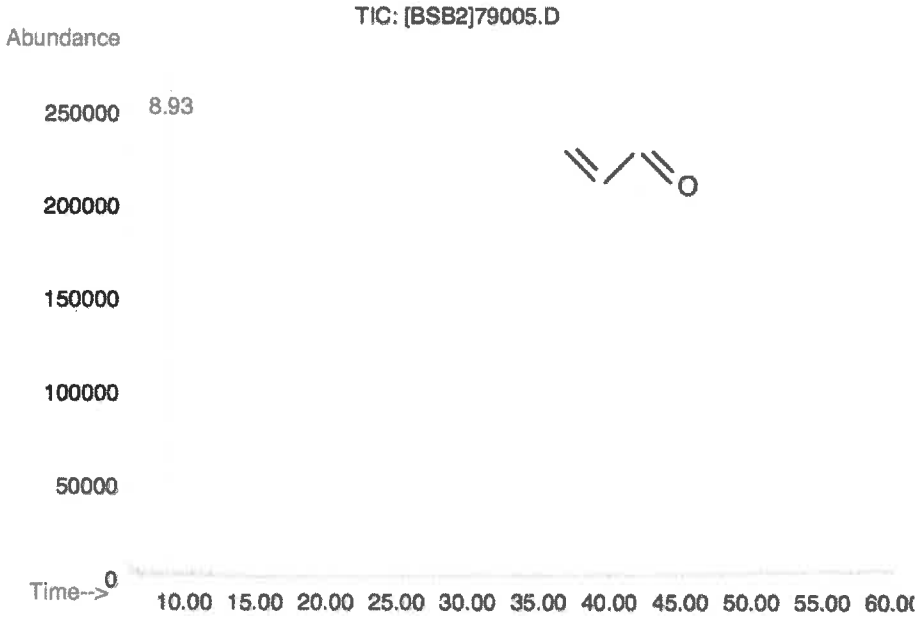
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

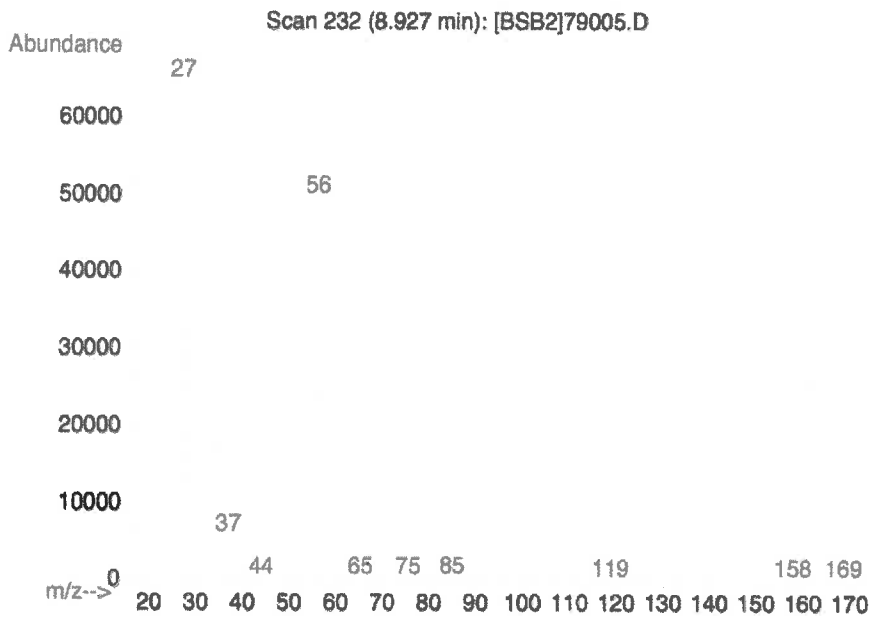
Gabriel Helland 071625
Formulated By: Gabriel Helland DATE

Pedro Rentas 071625
Reviewed By: Pedro L. Rentas DATE

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Acrolein | 5 | 103755V10F | 5000 | 97 | 0.5 | 0.05166 | 0.05181 | 5014.7 | 52.6 | 107-02-8 | 0.1 ppm | orl-rat 46mg/kg |

**Method:** GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.). Temp. 2=200°C ( Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.

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- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

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Rec 07/17/25 5 vial

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## CERTIFIED WEIGHT REPORT

**Part Number:** 91980
Lot Number: 071625
Description: Acrolein

Expiration Date: 081625
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

**Solvent(s):** **Lot#**
Water 041725Q

V15050 to
~~V15054~~ V15056
V15054

Gabriel Helland 071625
Formulated By: Gabriel Helland DATE

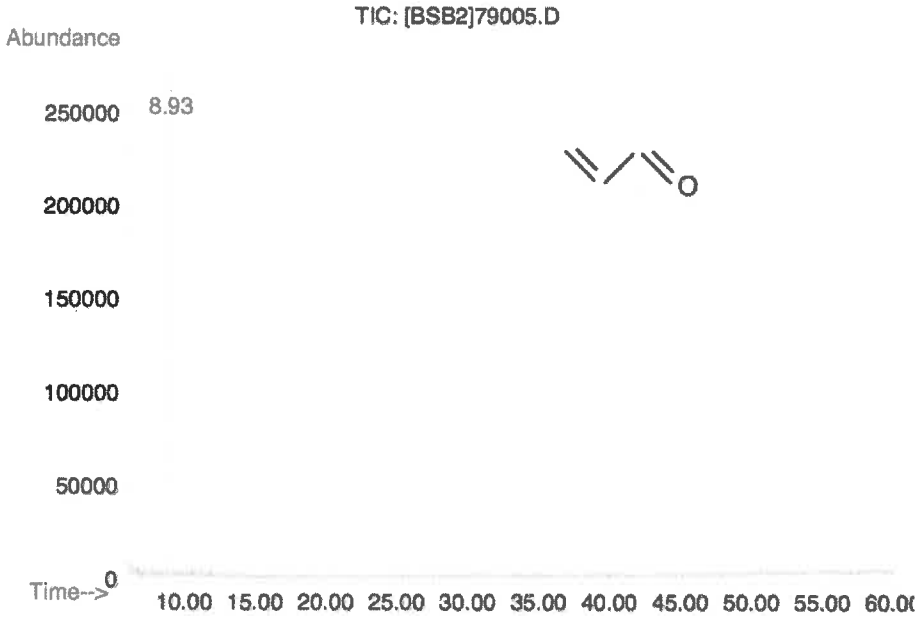
Pedro Rentas 071625
Reviewed By: Pedro L. Rentas DATE

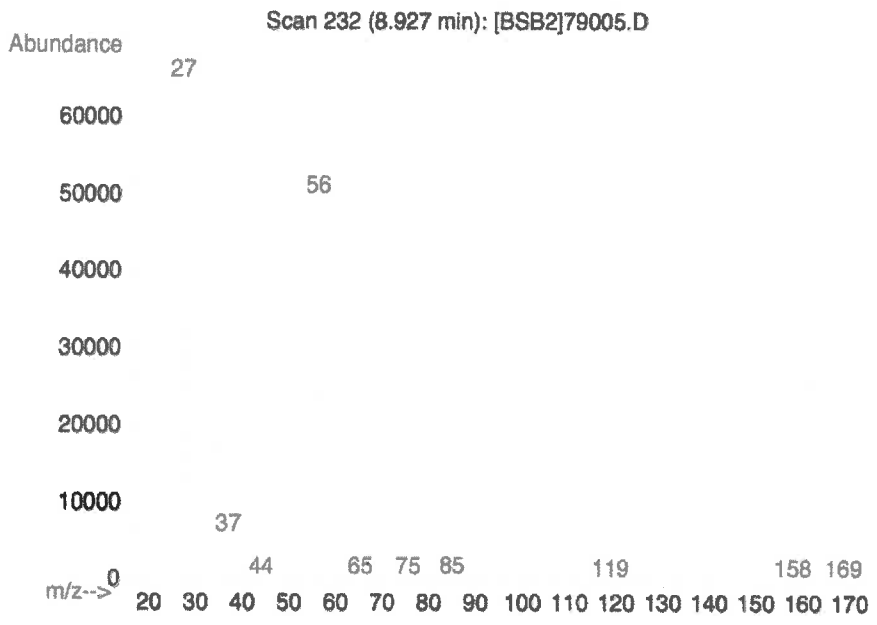
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Acrolein | 5 | 103755V10F | 5000 | 97 | 0.5 | 0.05166 | 0.05181 | 5014.7 | 52.6 | 107-02-8 | 0.1 ppm | orl-rat 46mg/kg |

**Method:** GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.). Temp. 2=200°C ( Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.

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## CERTIFIED WEIGHT REPORT

| | |
|---|---|
| **Part Number:** | 91980 |
| Lot Number: | 071525 |
| Description: | Acrolein |
| Expiration Date: | 081525 |
| Recommended Storage: | Refrigerate (2°C to 8°C) |
| Nominal Concentration (µg/mL): | 5000 |
| NIST Test ID#: | 6UTB |

| **Solvent(s):** | **Lot#** |
|---|---|
| Water | 041725Q |

V150557
V150556

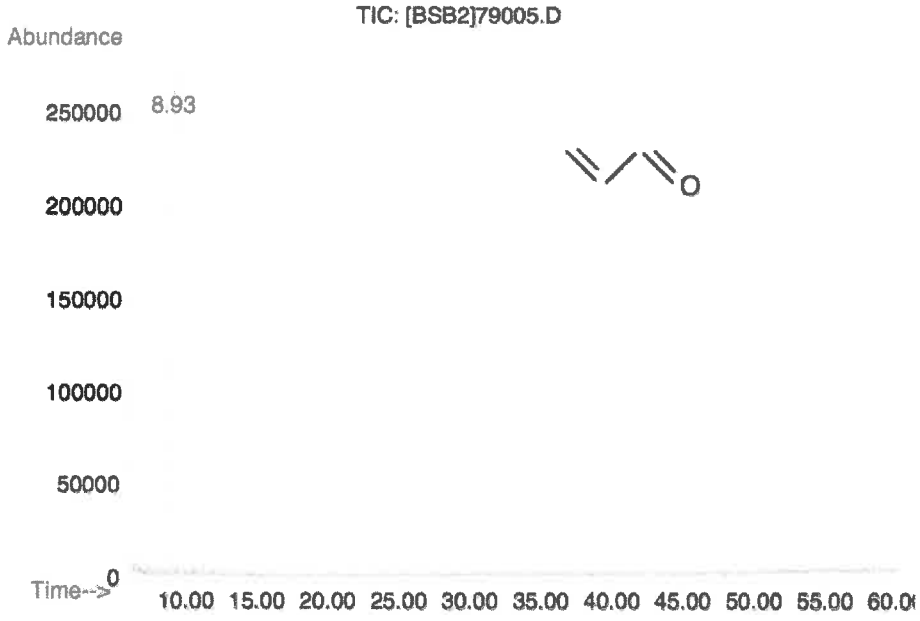
5E-05 Balance Uncertainty

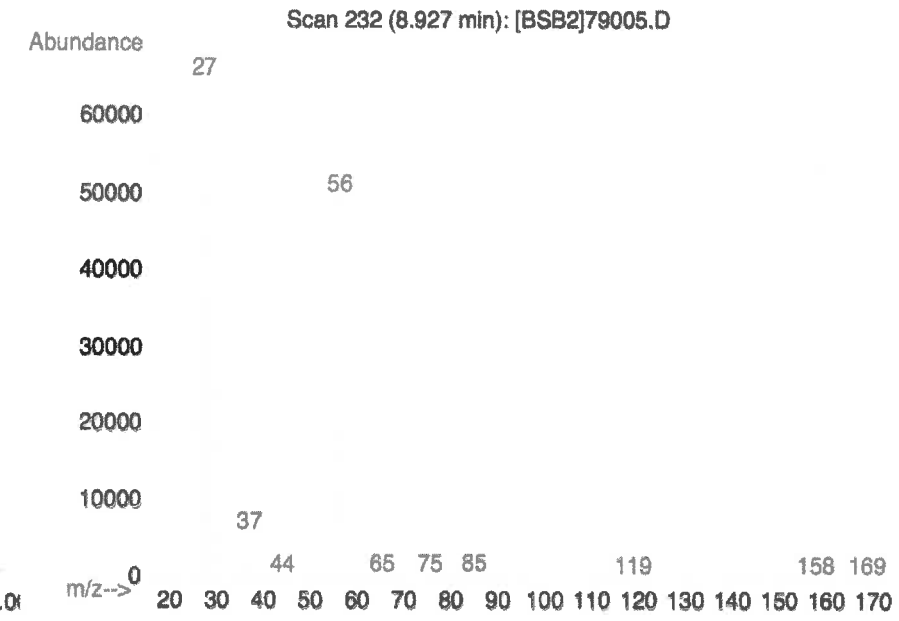
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

| | |
|---|---|
| Justin Dippold | 071525 |
| Formulated By: Justin Dippold | DATE |
| Pedro Rentas | 071525 |
| Reviewed By: Pedro L. Rentas | DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Acrolein | 5 | 103755R02H | 5000 | 97 | 0.5 | 0.05166 | 0.05175 | 5008.9 | 52.5 | 107-02-8 | 0.1 ppm | orl-rat 46mg/kg |

**Method:** GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C ( Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.

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## CERTIFIED WEIGHT REPORT

**Part Number:** 91980
**Lot Number:** 071525
**Description:** Acrolein

**Solvent(s):** Water **Lot#** 041725Q

V15055
V15056

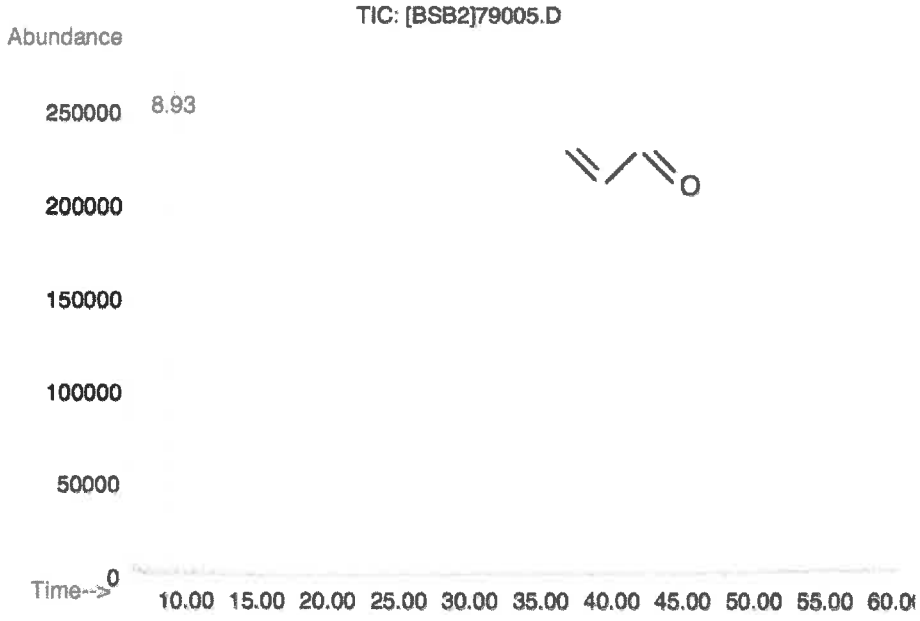
**Expiration Date:** 081525
**Recommended Storage:** Refrigerate (2°C to 8°C)
**Nominal Concentration (µg/mL):** 5000
**NIST Test ID#:** 6UTB 5E-05 Balance Uncertainty
**Weight(s) shown below were combined and diluted to (mL):** 10.0 0.001 Flask Uncertainty

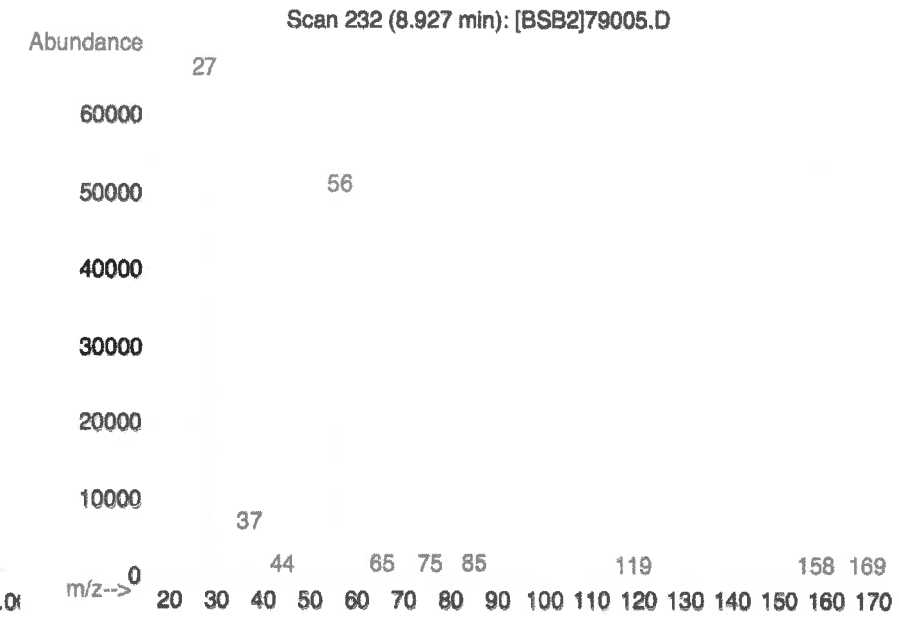
Justin Dippold 071525
Formulated By: Justin Dippold DATE

Pedro Rentas 071525
Reviewed By: Pedro L. Rentas DATE

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Acrolein | 5 | 103755R02H | 5000 | 97 | 0.5 | 0.05166 | 0.05175 | 5008.9 | 52.5 | 107-02-8 | 0.1 ppm | orl-rat 46mg/kg |

**Method:** GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C ( Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.

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## CERTIFIED WEIGHT REPORT

**Part Number:** 91980
**Lot Number:** 081325
**Description:** Acrolein

**Solvent(s):** Water **Lot#** 041725Q

V15057 to V15061

**Expiration Date:** 091325
**Recommended Storage:** Refrigerate (2°C to 8°C)
**Nominal Concentration (µg/mL):** 5000
**NIST Test ID#:** 6UTB

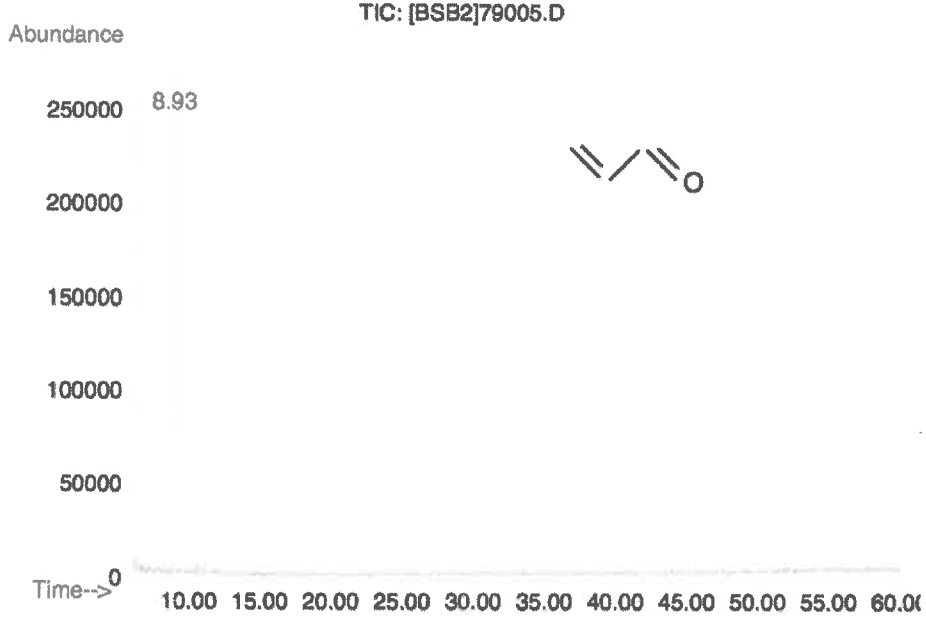
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

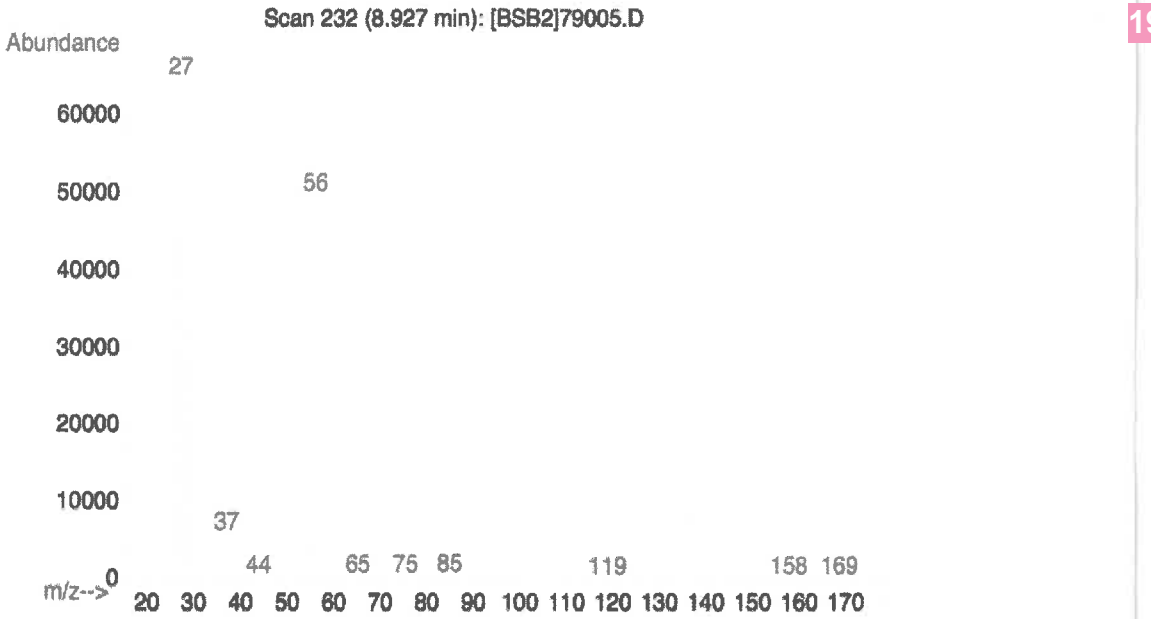
Weight(s) shown below were combined and diluted to (mL): 10.0

| | |
|---|---|
| Eli Aliaga | 081325 |
| Formulated By: Eli Aliaga | DATE |
| Pedro Rentas | 081325 |
| Reviewed By: Pedro L. Rentas | DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Acrolein | 5 | 103755V10F | 5000 | 97 | 0.5 | 0.05166 | 0.05176 | 5009.9 | 52.6 | 107-02-8 | 0.1 ppm | orl-rat 46mg/kg |

**Method:** GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C ( Time 2 = 8.75 min.). Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.

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CERTIFIED WEIGHT REPORT

| | |
|---|---|
| **Part Number:** | 91980 |
| Lot Number: | 081325 |
| Description: | Acrolein |
| Expiration Date: | 091325 |
| Recommended Storage: | Refrigerate (2°C to 8°C) |
| Nominal Concentration (µg/mL): | 5000 |
| NIST Test ID#: | 6UTB |

**Solvent(s):** Water **Lot#** 041725Q

V15057 to V15061

Eli Aliaga 081325
Formulated By: Eli Aliaga DATE

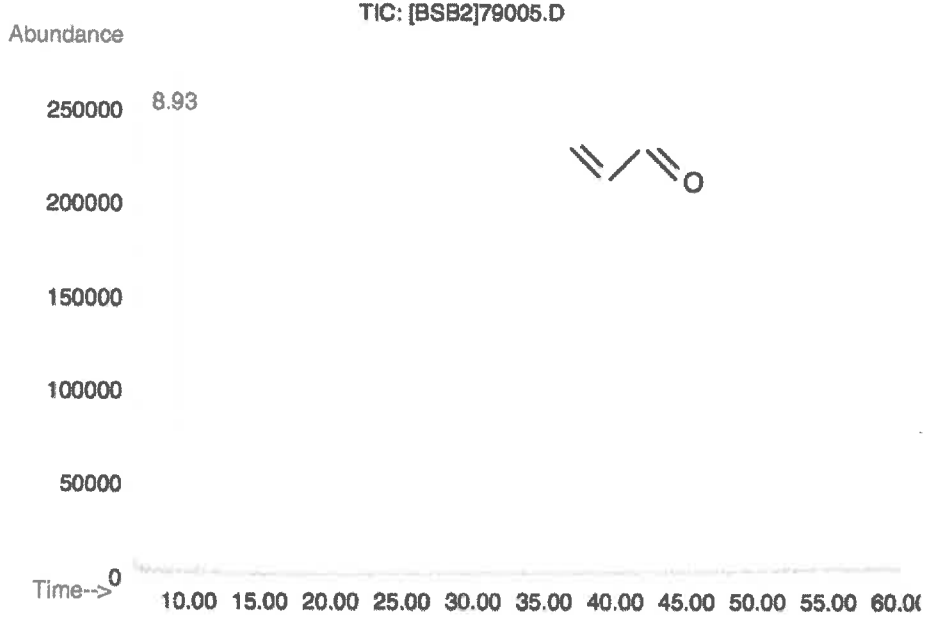
Pedro Rentas 081325
Reviewed By: Pedro L. Rentas DATE

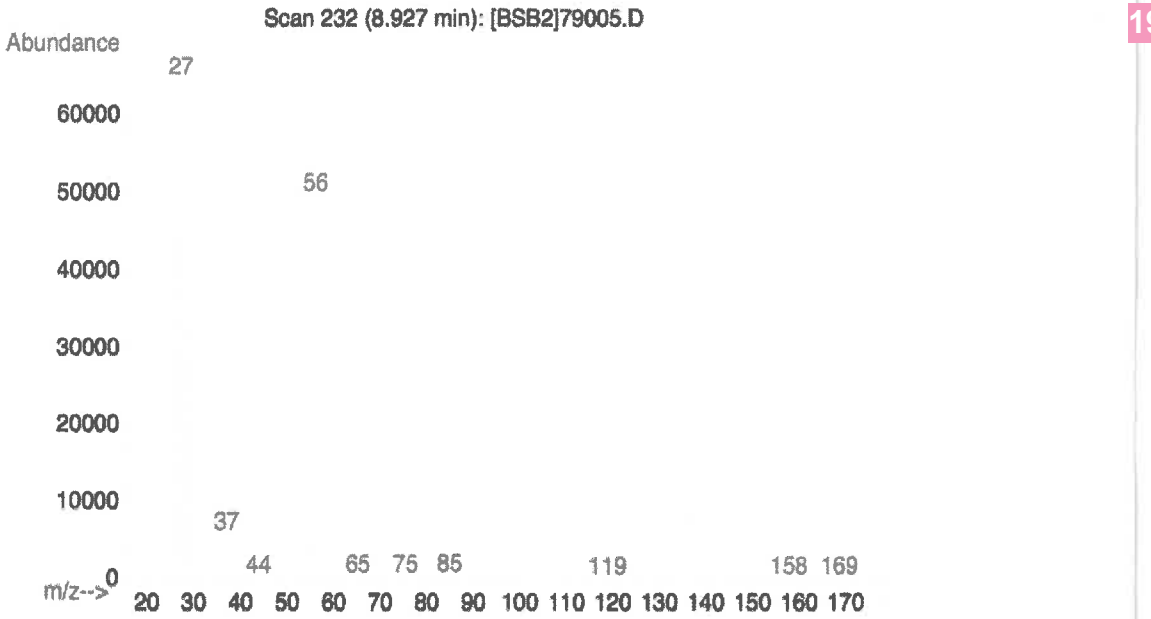
5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Acrolein | 5 | 103755V10F | 5000 | 97 | 0.5 | 0.05166 | 0.05176 | 5009.9 | 52.6 | 107-02-8 | 0.1 ppm | orl-rat 46mg/kg |

**Method:** GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C ( Time 2 = 8.75 min.). Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.

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## CERTIFIED WEIGHT REPORT

**Part Number:** 91980
**Lot Number:** 081325
**Description:** Acrolein

**Solvent(s):** Water **Lot#** 041725Q

V15057 to V15061

**Expiration Date:** 091325
**Recommended Storage:** Refrigerate (2°C to 8°C)
**Nominal Concentration (µg/mL):** 5000
**NIST Test ID#:** 6UTB

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

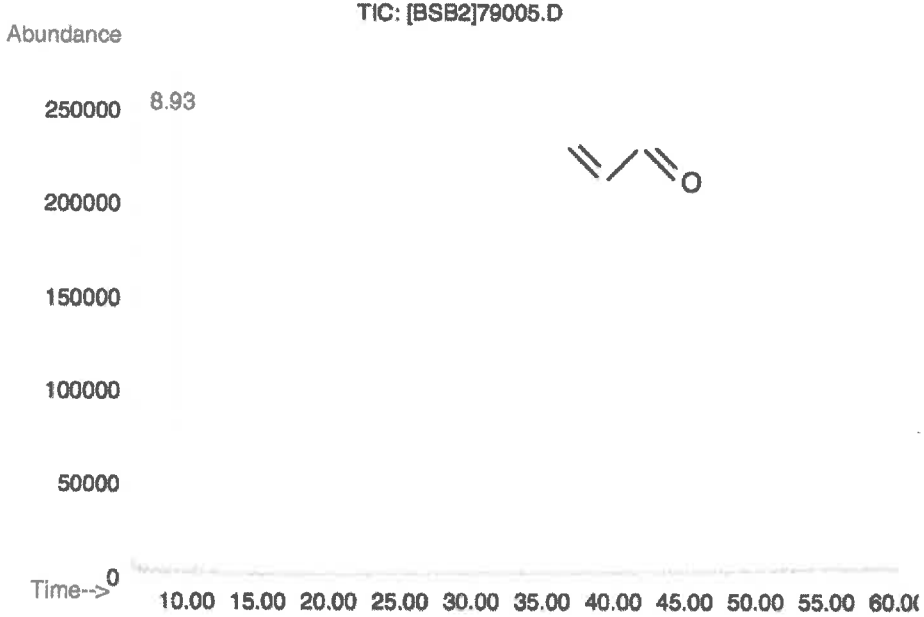
Weight(s) shown below were combined and diluted to (mL): 10.0

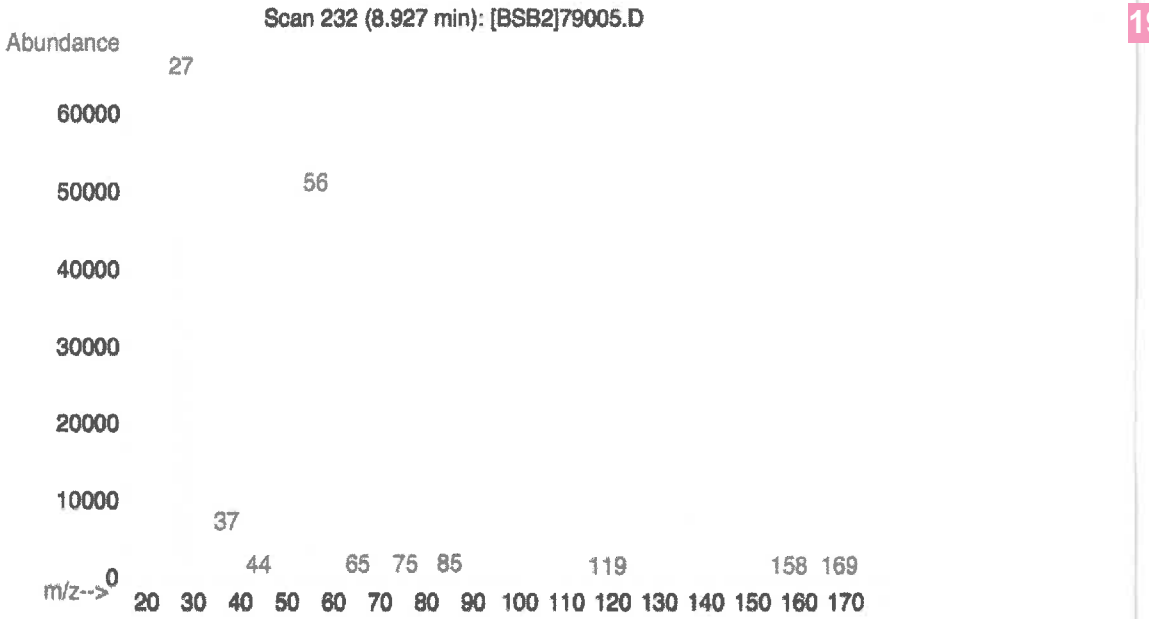
Eli Aliaga 081325
Formulated By: Eli Aliaga DATE

Pedro Rentas 081325
Reviewed By: Pedro L. Rentas DATE

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Acrolein | 5 | 103755V10F | 5000 | 97 | 0.5 | 0.05166 | 0.05176 | 5009.9 | 52.6 | 107-02-8 | 0.1 ppm | orl-rat 46mg/kg |

**Method:** GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C ( Time 2 = 8.75 min.). Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

# Preservation Log

**BalanceID:** VOA-SC-2

**Review By:** Amit

**Supervise By:** MMDadoda

| Seq | LabID | Vial A Weight(g)= Total Wt-Tare Wt | Vial A Time | Vial B Weight(g)= Total Wt-Tare Wt | Vial B Time | Vial C Weight(g) Preserve with MeOH | Vial C Time | Methanol ID | Preservation Date | Comments |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Q2819-01 | 39.51-30.99=8.52 | 14:21 | 39.13-31.06=8.07 | 14:22 | 37.56-28.35=9.21 | 14:23 | V14143 | 08/11/2025 | 8260 TERRACORE SAMPLES |
| 2 | Q2819-02 | 38.43-31.15=7.28 | 14:27 | 38.47-31.24=7.23 | 14:28 | 35.28-28.22=7.06 | 14:29 | V14143 | 08/11/2025 | |
| 3 | Q2819-03 | 38.75-31.22=7.53 | 14:30 | 38.05-31.15=6.9 | 14:31 | 36.71-28.30=8.41 | 14:31 | V14143 | 08/11/2025 | |
| 4 | Q2819-04 | 36.64-30.96=5.68 | 14:32 | 37.77-30.92=6.85 | 14:33 | 34.30-28.38=5.92 | 14:34 | V14143 | 08/11/2025 | |
| 5 | Q2819-05 | 37.25-31.04=6.21 | 14:35 | 37.62-31.28=6.34 | 14:36 | 34.20-28.09=6.11 | 14:37 | V14143 | 08/11/2025 | |
| 6 | Q2819-06 | 36.90-31.19=5.71 | 14:38 | 36.58-31.33=5.25 | 14:39 | 34.26-28.44=5.82 | 14:40 | V14143 | 08/11/2025 | |
| 7 | Q2819-07 | 37.45-31.13=6.32 | 14:41 | 37.35-31.27=6.08 | 14:42 | 35.58-28.15=7.43 | 14:43 | V14143 | 08/11/2025 | |
| 8 | Q2819-08 | 36.73-31.26=5.47 | 14:42 | 36.96-31.08=5.88 | 14:44 | 33.60-28.27=5.33 | 14:45 | V14143 | 08/11/2025 | |
| 9 | Q2819-09 | 35.60-31.19=4.41 | 14:46 | 35.24-31.18=4.06 | 14:45 | 32.19-28.28=3.91 | 14:45 | V14143 | 08/11/2025 | |
| 10 | Q2819-10 | 36.48-30.96=5.52 | 14:45 | 35.84-30.88=4.96 | 14:46 | 33.54-28.34=5.2 | 14:46 | V14143 | 08/11/2025 | |
| 11 | Q2819-11 | 36.46-31.00=5.46 | 14:47 | 37.97-31.04=6.93 | 14:47 | 34.11-28.37=5.74 | 14:47 | V14143 | 08/11/2025 | |
| 12 | Q2819-12 | 37.70-31.19=6.51 | 14:47 | 37.93-31.06=6.87 | 14:48 | 34.37-28.42=5.95 | 14:48 | V14143 | 08/11/2025 | |
| 13 | Q2819-13 | 37.44-30.93=6.51 | 14:48 | 36.94-31.18=5.76 | 14:48 | 33.26-28.34=4.92 | 14:49 | V14143 | 08/11/2025 | |
| 14 | Q2819-14 | 37.71-30.99=6.72 | 14:50 | 37.90-30.78=7.12 | 14:51 | 34.53-28.38=6.15 | 14:52 | V14143 | 08/11/2025 | |
| 15 | Q2819-15 | 36.98-31.17=5.81 | 14:51 | 37.22-31.16=6.06 | 14:51 | 33.75-28.15=5.6 | 14:52 | V14143 | 08/11/2025 | |

Instructions : For medium Level analysis, 5ml MeOH added for CLP(SOM/SFAM) method and 10ml for regular 8260.

If the samples are not to be analyzed within 48hrs of sampling, preserve samples immediately, Vials A and B are stored in the VOA-FRZ-2.

Vial C - MeOH preserved vials are kept in VOA-REF #6.

QA Contorl # A3041177

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 16 | Q2819-16 | 37.55-31.31=6.24 | 14:52 | 37.83-31.21=6.62 | 14:53 | 34.70-28.58=6.12 | 14:53 | V14143 | 08/11/2025 | |
| 17 | Q2819-17 | 40.26-30.86=9.4 | 14:53 | 40.99-31.43=9.56 | 14:54 | 36.88-28.13=8.75 | 14:55 | V14143 | 08/11/2025 | |
| 18 | Q2819-18 | 40.72-31.33=9.39 | 14:56 | 40.69-31.10=9.59 | 14:57 | 37.57-28.26=9.31 | 14:57 | V14143 | 08/11/2025 | |
| 19 | Q2819-19 | 37.94-31.21=6.73 | 14:58 | 37.48-31.10=6.38 | 14:59 | 34.54-28.23=6.31 | 14:59 | V14143 | 08/11/2025 | |
| 20 | Q2819-20 | 36.82-31.14=5.68 | 14:59 | 38.56-31.20=7.36 | 15:00 | 35.28-28.48=6.8 | 15:01 | V14143 | 08/11/2025 | |

Instructions : For medium Level analysis, 5ml MeOH added for CLP(SOM/SFAM) method and 10ml for regular 8260.

If the samples are not to be analyzed within 48hrs of sampling, preserve samples immediately, Vials A and B are stored in the VOA-FRZ-2.

Vial C - MeOH preserved vials are kept in VOA-REF #6.

QA Contorl # A3041177

# SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q2819
COC Number 2045329

**CLIENT INFORMATION**

REPORT TO BE SENT TO:
COMPANY: First Environment
ADDRESS: 10 Park Pl Bldg 1A Suite 304
CITY Butler STATE: NJ ZIP: 07405
ATTENTION: Al Smith
PHONE: 973-334-0003 FAX:

**CLIENT PROJECT INFORMATION**

PROJECT NAME: USACE FIMP
PROJECT NO.: USACE018-44 LOCATION: Long Island, NY
PROJECT MANAGER: Al Smith
e-mail: asmith@firstenvironment.com
PHONE: 973-334-0003 FAX:

**CLIENT BILLING INFORMATION**

BILL TO: PO#:
ADDRESS: Same
CITY STATE: ZIP:
ATTENTION: PHONE:

**DATA TURNAROUND INFORMATION**

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): 10 DAYS*
EDD: 10 DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

**DATA DELIVERABLE INFORMATION**

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☒ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B ☐ Other
☒ EDD FORMAT NYSDEC

**ANALYSIS**

1: VOC/SVOC 2 3: Pest./PCB 4 5: metals 6 7 8 9

| ALLIANCE SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # OF BOTTLES | PRESERVATIVES 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | 22BP-N | S | | | 8/4/25 | 1500 | 5 | X | | | | | | | | | |
| 2. | 22BP-E | S | | | | 1434 | 5 | X | | | | | | | | | |
| 3. | 22BP-W | S | | | | 1418 | 5 | X | | | | | | | | | |
| 4. | 22BP-S | S | | | | 1427 | 5 | X | | | | | | | | | |
| 5. | 11M-W | S | | | 8/5/25 | 1015 | 5 | X | | | | | | | | | |
| 6. | 11M-S | S | | | | 0955 | 7 | X | X | X | | | | | | | |
| 7. | 11M-N | S | | | | 1100 | 5 | X | | | | | | | | | |
| 8. | 11M-E | S | | | | 1110 | 5 | X | | | | | | | | | |
| 9. | 845B-E | S | | | | 1340 | 5 | X | | | | | | | | | |
| 10. | 845B-S | S | | | | 1410 | 5 | X | | | | | | | | | |

PRESERVATIVES: ← Specify Preservatives — A-HCl, B-HN03, C-H2SO4, D-NaOH, E-ICE, F-OTHER

**SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY**

| RELINQUISHED BY SAMPLER: | DATE/TIME: | RECEIVED BY: |
|---|---|---|
| 1. GMC | 6:01 | 1. 8.8.25 |
| 2. | | 2. |
| 3. | | 3. |

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☒ COOLER TEMP 3.8i °C
Comments:

Page 1 of 5

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

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Alliance TECHNICAL GROUP

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(908) 789-8900 · Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q2819
COC Number 2045330

**CLIENT INFORMATION** (REPORT TO BE SENT TO:)

COMPANY:
ADDRESS: See page 1
CITY STATE: ZIP:
ATTENTION:
PHONE: FAX:

**CLIENT PROJECT INFORMATION**

PROJECT NAME:
PROJECT NO.: LOCATION:
PROJECT MANAGER:
e-mail:
PHONE: FAX:

**CLIENT BILLING INFORMATION**

BILL TO: PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

**DATA TURNAROUND INFORMATION**

FAX (RUSH) DAYS*
HARDCOPY (DATA PACKAGE): 10 DAYS*
EDD: 10 DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

**DATA DELIVERABLE INFORMATION**

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☒ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B ☐ Other
☒ EDD FORMAT NYSDEC

**ANALYSIS**

1 VOC | 2 SVOC | 3 Pest | 4 PCB | 5 Metals | 6 | 7 | 8 | 9

| ALLIANCE SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # OF BOTTLES | PRESERVATIVES 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | 84 SB-W | S | C | | 8/5/25 | 1400 | 7 | X | X | X | | | | | | | ← Specify Preservatives A-HCl D-NaOH B-HN03 E-ICE C-H2SO4 F-OTHER |
| 2. | 17M-S | | | | | 1605 | 5 | X | | | | | | | | | |
| 3. | 17M-E | | | | | 1700 | 5 | X | | | | | | | | | |
| 4. | 17M-W | | | | | 1620 | 7 | X | X | X | | | | | | | |
| 5. | 17M-N | | | | | 1640 | 5 | X | | | | | | | | | |
| 6. | 38M-S | | | | 8/6/25 | 0935 | 5 | X | | | | | | | | | |
| 7. | 38M-N | | | | | 1005 | 5 | X | | | | | | | | | |
| 8. | 38M-W | | | | | 0955 | 5 | X | X | X | | | | | | | |
| 9. | 38M-E | | | | | 1020 | 5 | X | | | | | | | | | |
| 10. | 82H-E | | | | | 1205 | 5 | X | | | | | | | | | |

**SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY**

| RELINQUISHED BY SAMPLER: | DATE/TIME: | RECEIVED BY: |
|---|---|---|
| 1. GMC | 6:01 | 1. 8.8.25 |
| 2. | | 2. |
| 3. | | 3. |

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☒ COOLER TEMP 3.6 °C
Comments:

Page 2 of 5

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

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284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

# Laboratory Certification

| Certified By | License No. |
|---|---|
| CAS EPA CLP Contract | 68HERH20D0011 |
| Connecticut | PH-0830 |
| DOD ELAP (ANAB) | L2219 |
| Maine | 2024021 |
| Maryland | 296 |
| New Hampshire | 255424 Rev 1 |
| New Jersey | 20012 |
| New York | 11376 |
| Pennsylvania | 68-00548 |
| Soil Permit | 525-24-234-08441 |
| Texas | T104704488 |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** Q2819 FIRS02
**Client Name :** First Environment, Inc.
**Client Contact :** Al Smith
**Invoice Name :** First Environment, Inc.
**Invoice Contact :** Al Smith

**Order Date :** 8/11/2025 12:06:00 PM
**Project Name :** USACE018-44 DOD
**Receive DateTime :** 8/8/2025 6:01:00 PM
**Purchase Order :**

**Project Mgr :**
**Report Type :** Level 4
**EDD Type :** EQUIS
**Hard Copy Date :**
**Date Signoff :**

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|
| Q2819-01 | 22BP-N | Solid | 08/04/2025 | 15:00 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260D | | 10 Bus. Days |
| Q2819-02 | 22BP-E | Solid | 08/04/2025 | 14:34 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260D | | 10 Bus. Days |
| Q2819-03 | 22BP-W | Solid | 08/04/2025 | 14:18 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260D | | 10 Bus. Days |
| Q2819-04 | 22BP-S | Solid | 08/04/2025 | 14:27 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260D | | 10 Bus. Days |
| Q2819-05 | 11M-W | Solid | 08/05/2025 | 10:15 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260D | | 10 Bus. Days |
| Q2819-06 | 11M-S | Solid | 08/05/2025 | 09:55 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260D | | 10 Bus. Days |
| Q2819-07 | 11M-N | Solid | 08/05/2025 | 11:00 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260D | | 10 Bus. Days |
| Q2819-08 | 11M-E | Solid | 08/05/2025 | 11:10 | | | | | |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

DP 08/16/2025

# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** Q2819 FIRS02
**Client Name :** First Environment, Inc.
**Client Contact :** Al Smith
**Invoice Name :** First Environment, Inc.
**Invoice Contact :** Al Smith

**Order Date :** 8/11/2025 12:06:00 PM
**Project Name :** USACE018-44 DOD
**Receive DateTime :** 8/8/2025 6:01:00 PM
**Purchase Order :**

**Project Mgr :**
**Report Type :** Level 4
**EDD Type :** EQUIS
**Hard Copy Date :**
**Date Signoff :**

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | VOC-TCLVOA-10 | | 8260D | 10 Bus. Days | | |
| Q2819-09 | 84SB-E ~~845SB-E~~ | Solid | 08/05/2025 | 13:40 | | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260D | 10 Bus. Days | | |
| Q2819-10 | 84SB-S ~~845SB-S~~ | Solid | 08/05/2025 | 14:10 | | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260D | 10 Bus. Days | | |
| Q2819-11 | 84SB-W ~~845SB-W~~ | Solid | 08/05/2025 | 14:00 | | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260D | 10 Bus. Days | | |
| Q2819-12 | 17M-S | Solid | 08/05/2025 | 16:05 | | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260D | 10 Bus. Days | | |
| Q2819-13 | 17M-E | Solid | 08/05/2025 | 17:00 | | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260D | 10 Bus. Days | | |
| Q2819-14 | 17M-W | Solid | 08/05/2025 | 16:20 | | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260D | 10 Bus. Days | | |
| Q2819-15 | 17M-N | Solid | 08/05/2025 | 16:40 | | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260D | 10 Bus. Days | | |

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** Q2819 FIRS02
**Client Name :** First Environment, Inc.
**Client Contact :** Al Smith
**Invoice Name :** First Environment, Inc.
**Invoice Contact :** Al Smith

**Order Date :** 8/11/2025 12:06:00 PM
**Project Name :** USACE018-44 DOD
**Receive DateTime :** 8/8/2025 6:01:00 PM
**Purchase Order :**

**Project Mgr :**
**Report Type :** Level 4
**EDD Type :** EQUIS
**Hard Copy Date :**
**Date Signoff :**

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|
| Q2819-16 | 38M-S | Solid | 08/06/2025 | 09:35 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260D | | 10 Bus. Days |
| Q2819-17 | 38M-N | Solid | 08/06/2025 | 10:05 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260D | | 10 Bus. Days |
| Q2819-18 | 38M-W | Solid | 08/06/2025 | 09:55 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260D | | 10 Bus. Days |
| Q2819-19 | 38M-E | Solid | 08/06/2025 | 10:20 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260D | | 10 Bus. Days |
| Q2819-20 | 82H-E | Solid | 08/06/2025 | 12:05 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260D | | 10 Bus. Days |

**Relinguished By :**
**Date / Time :** 8-11-25 1450

**Received By :**
**Date / Time :** 08/11/25 14:50
**Storage Area :** **VOA Refridgerator Room**

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032052.D
Acq On : 11 Aug 2025 08:25
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Quant Time: Aug 12 03:36:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.959 | 168 | 225574 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.849 | 114 | 424617 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.629 | 117 | 391234 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.556 | 152 | 196943 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.313 | 65 | 16827 | 5.158 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 63 - 155 | | Recovery = 10.320%# | | | |
| 35) Dibromofluoromethane | 7.898 | 113 | 14278 | 5.205 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 70 - 134 | | Recovery = 10.400%# | | | |
| 50) Toluene-d8 | 10.331 | 98 | 49876 | 4.916 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 123 | | Recovery = 9.840%# | | | |
| 62) 4-Bromofluorobenzene | 12.617 | 95 | 18184 | 4.863 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 17 - 146 | | Recovery = 9.720%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.046 | 85 | 9007 | 5.583 | ug/l | 100 |
| 3) Chloromethane | 2.253 | 50 | 12377 | 5.695 | ug/l | 95 |
| 4) Vinyl Chloride | 2.399 | 62 | 14029 | 5.337 | ug/l | 91 |
| 5) Bromomethane | 2.826 | 94 | 10878 | 5.516 | ug/l | 95 |
| 6) Chloroethane | 2.966 | 64 | 9219 | 5.300 | ug/l | 98 |
| 7) Trichlorofluoromethane | 3.302 | 101 | 12298 | 5.840 | ug/l | 94 |
| 8) Diethyl Ether | 3.716 | 74 | 8824 | 5.114 | ug/l | 98 |
| 9) 1,1,2-Trichlorotrifluo... | 4.100 | 101 | 13903 | 5.596 | ug/l | 94 |
| 10) Methyl Iodide | 4.301 | 142 | 17789 | 5.050 | ug/l | 99 |
| 11) Tert butyl alcohol | 5.222 | 59 | 5328 | 25.221 | ug/l | 94 |
| 12) 1,1-Dichloroethene | 4.076 | 96 | 14655 | 5.357 | ug/l | 94 |
| 13) Acrolein | 3.929 | 56 | 9831 | 29.207 | ug/l | 89 |
| 14) Allyl chloride | 4.698 | 41 | 19999 | 5.023 | ug/l | 98 |
| 15) Acrylonitrile | 5.399 | 53 | 20340 | 24.751 | ug/l | 99 |
| 16) Acetone | 4.161 | 43 | 22915 | 30.337 | ug/l | 99 |
| 17) Carbon Disulfide | 4.417 | 76 | 38213 | 5.204 | ug/l | 96 |
| 18) Methyl Acetate | 4.704 | 43 | 10943 | 4.578 | ug/l # | 76 |
| 19) Methyl tert-butyl Ether | 5.460 | 73 | 23062 | 4.785 | ug/l | 99 |
| 20) Methylene Chloride | 4.954 | 84 | 23529 | 6.737 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 5.454 | 96 | 14671 | 5.053 | ug/l | 93 |
| 22) Diisopropyl ether | 6.338 | 45 | 38895 | 4.634 | ug/l | 94 |
| 23) Vinyl Acetate | 6.283 | 43 | 124477 | 22.588 | ug/l | 98 |
| 24) 1,1-Dichloroethane | 6.246 | 63 | 26909 | 5.018 | ug/l | 99 |
| 25) 2-Butanone | 7.197 | 43 | 26284 | 24.484 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 7.185 | 77 | 14330 | 5.326 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 7.191 | 96 | 16041 | 4.727 | ug/l | 98 |
| 28) Bromochloromethane | 7.526 | 49 | 12660 | 5.188 | ug/l | 98 |
| 29) Tetrahydrofuran | 7.551 | 42 | 16965 | 23.963 | ug/l | 96 |
| 30) Chloroform | 7.691 | 83 | 28586 | 5.028 | ug/l | 99 |
| 31) Cyclohexane | 7.959 | 56 | 26393 | 5.677 | ug/l # | 83 |
| 32) 1,1,1-Trichloroethane | 7.880 | 97 | 21662 | 5.246 | ug/l | 96 |
| 36) 1,1-Dichloropropene | 8.099 | 75 | 19468 | 5.034 | ug/l | 99 |
| 37) Ethyl Acetate | 7.276 | 43 | 11365 | 4.990 | ug/l | 99 |
| 38) Carbon Tetrachloride | 8.081 | 117 | 18734 | 5.020 | ug/l | 92 |
| 39) Methylcyclohexane | 9.337 | 83 | 22284 | 4.728 | ug/l | 94 |
| 40) Benzene | 8.331 | 78 | 59395 | 4.941 | ug/l | 98 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032052.D
Acq On : 11 Aug 2025 08:25
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Quant Time: Aug 12 03:36:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.496 | 41 | 5910 | 4.576 ug/l # | 95 |
| 42) 1,2-Dichloroethane | 8.410 | 62 | 19560 | 5.085 ug/l | 99 |
| 43) Isopropyl Acetate | 8.435 | 43 | 19928 | 4.756 ug/l | 98 |
| 44) Trichloroethene | 9.093 | 130 | 14999 | 5.240 ug/l | 93 |
| 45) 1,2-Dichloropropane | 9.374 | 63 | 14387 | 4.954 ug/l | 98 |
| 46) Dibromomethane | 9.465 | 93 | 9753 | 5.204 ug/l | 97 |
| 47) Bromodichloromethane | 9.648 | 83 | 21279 | 4.927 ug/l | 100 |
| 48) Methyl methacrylate | 9.441 | 41 | 8949 | 4.424 ug/l | 97 |
| 49) 1,4-Dioxane | 9.465 | 88 | 2259 | 93.217 ug/l # | 85 |
| 51) 4-Methyl-2-Pentanone | 10.215 | 43 | 56184 | 23.755 ug/l | 98 |
| 52) Toluene | 10.386 | 92 | 35525 | 4.692 ug/l | 96 |
| 53) t-1,3-Dichloropropene | 10.611 | 75 | 18259 | 4.513 ug/l | 100 |
| 54) cis-1,3-Dichloropropene | 10.075 | 75 | 21173 | 4.612 ug/l | 97 |
| 55) 1,1,2-Trichloroethane | 10.788 | 97 | 12594 | 5.057 ug/l | 95 |
| 56) Ethyl methacrylate | 10.648 | 69 | 14387 | 4.317 ug/l | 95 |
| 57) 1,3-Dichloropropane | 10.934 | 76 | 21654 | 4.988 ug/l | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.928 | 63 | 41991 | 22.777 ug/l | 98 |
| 59) 2-Hexanone | 10.971 | 43 | 37796 | 23.074 ug/l | 95 |
| 60) Dibromochloromethane | 11.129 | 129 | 13654 | 4.799 ug/l | 98 |
| 61) 1,2-Dibromoethane | 11.239 | 107 | 11992 | 4.955 ug/l | 100 |
| 64) Tetrachloroethene | 10.861 | 164 | 11449 | 5.066 ug/l | 93 |
| 65) Chlorobenzene | 11.654 | 112 | 43515 | 5.110 ug/l | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 11.733 | 131 | 13037 | 4.907 ug/l | 98 |
| 67) Ethyl Benzene | 11.727 | 91 | 67071 | 4.650 ug/l | 97 |
| 68) m/p-Xylenes | 11.837 | 106 | 50482 | 9.070 ug/l | 96 |
| 69) o-Xylene | 12.166 | 106 | 22602 | 4.393 ug/l | 97 |
| 70) Styrene | 12.178 | 104 | 39288 | 4.300 ug/l | 98 |
| 71) Bromoform | 12.349 | 173 | 7283 | 4.792 ug/l # | 95 |
| 73) Isopropylbenzene | 12.458 | 105 | 57306 | 4.164 ug/l | 98 |
| 74) N-amyl acetate | 12.269 | 43 | 16327 | 4.135 ug/l | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.708 | 83 | 15805 | 4.836 ug/l | 98 |
| 76) 1,2,3-Trichloropropane | 12.763 | 75 | 19129 | 6.318 ug/l | 57 |
| 77) Bromobenzene | 12.745 | 156 | 14698 | 4.471 ug/l | 97 |
| 78) n-propylbenzene | 12.800 | 91 | 72140 | 4.257 ug/l | 99 |
| 79) 2-Chlorotoluene | 12.885 | 91 | 46879 | 4.483 ug/l | 98 |
| 80) 1,3,5-Trimethylbenzene | 12.940 | 105 | 49607 | 4.245 ug/l | 97 |
| 81) trans-1,4-Dichloro-2-b... | 12.513 | 75 | 4520 | 4.378 ug/l | 92 |
| 82) 4-Chlorotoluene | 12.983 | 91 | 50782 | 4.570 ug/l | 100 |
| 83) tert-Butylbenzene | 13.202 | 119 | 39993 | 4.124 ug/l | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.245 | 105 | 49891 | 4.194 ug/l | 100 |
| 85) sec-Butylbenzene | 13.379 | 105 | 64254 | 4.382 ug/l | 98 |
| 86) p-Isopropyltoluene | 13.495 | 119 | 51939 | 4.249 ug/l | 97 |
| 87) 1,3-Dichlorobenzene | 13.495 | 146 | 30445 | 4.654 ug/l | 94 |
| 88) 1,4-Dichlorobenzene | 13.574 | 146 | 32554 | 4.925 ug/l | 95 |
| 89) n-Butylbenzene | 13.818 | 91 | 51328 | 4.323 ug/l | 99 |
| 90) Hexachloroethane | 14.086 | 117 | 10372 | 4.640 ug/l | 99 |
| 91) 1,2-Dichlorobenzene | 13.867 | 146 | 28653 | 4.836 ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.476 | 75 | 2976 | 5.123 ug/l | 93 |
| 93) 1,2,4-Trichlorobenzene | 15.123 | 180 | 15646 | 4.414 ug/l | 99 |
| 94) Hexachlorobutadiene | 15.226 | 225 | 8109 | 5.118 ug/l | 98 |
| 95) Naphthalene | 15.360 | 128 | 34667 | 3.991 ug/l | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.549 | 180 | 14053 | 4.357 ug/l | 92 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032052.D
Acq On : 11 Aug 2025 08:25
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Quant Time: Aug 12 03:36:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

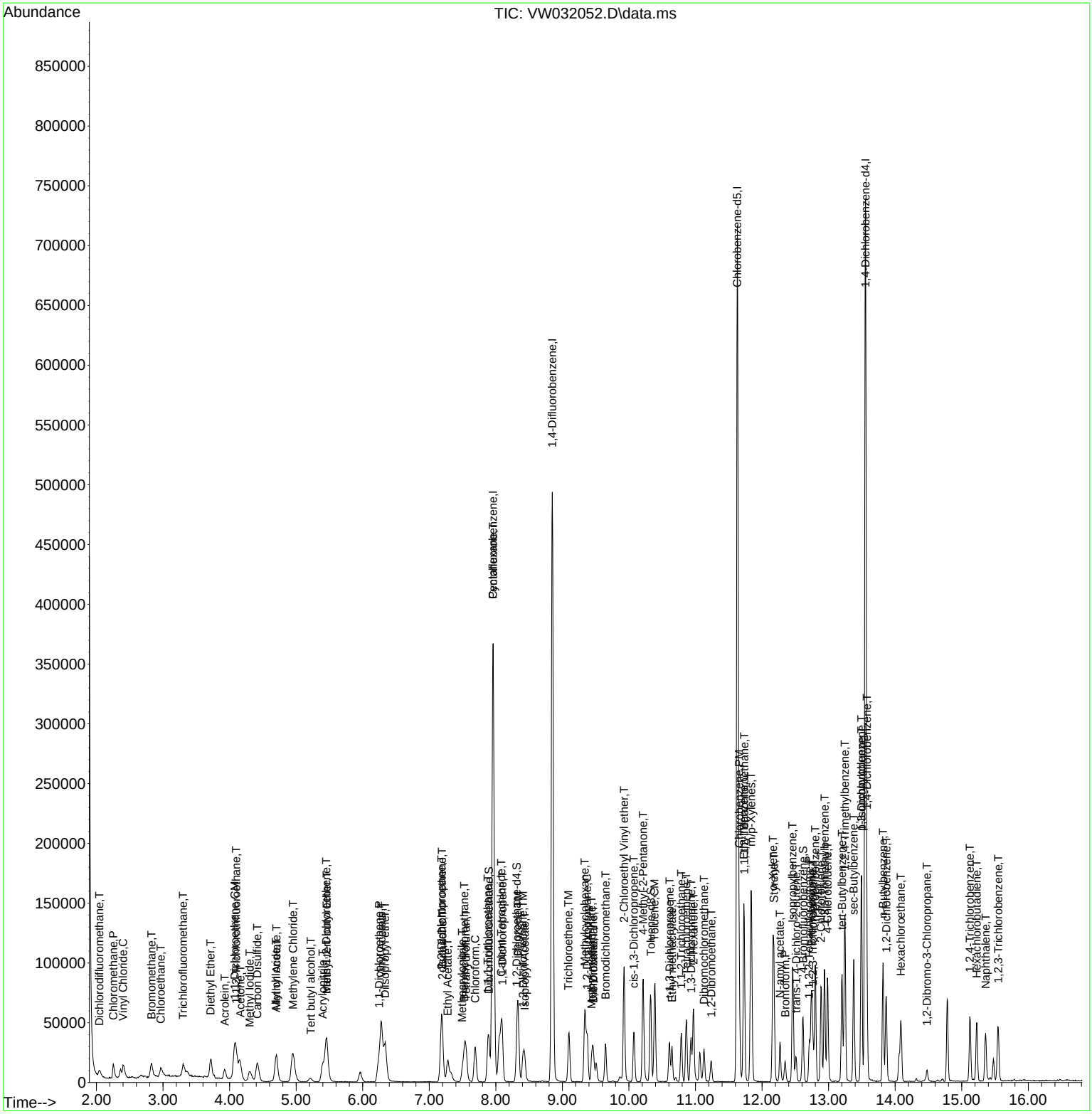
(#) = qualifier out of range (m) = manual integration (+) = signals summed

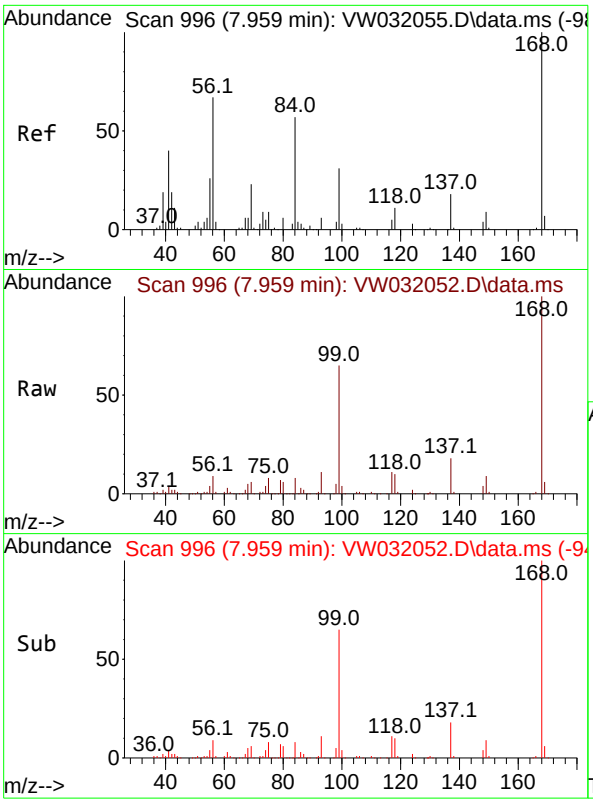
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032052.D
Acq On : 11 Aug 2025 08:25
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Quant Time: Aug 12 03:36:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration



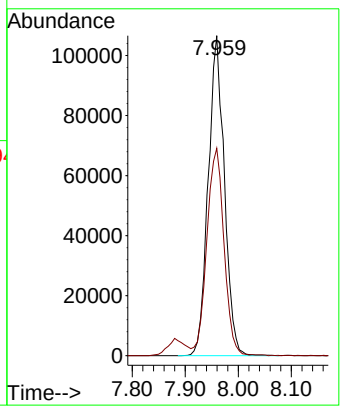


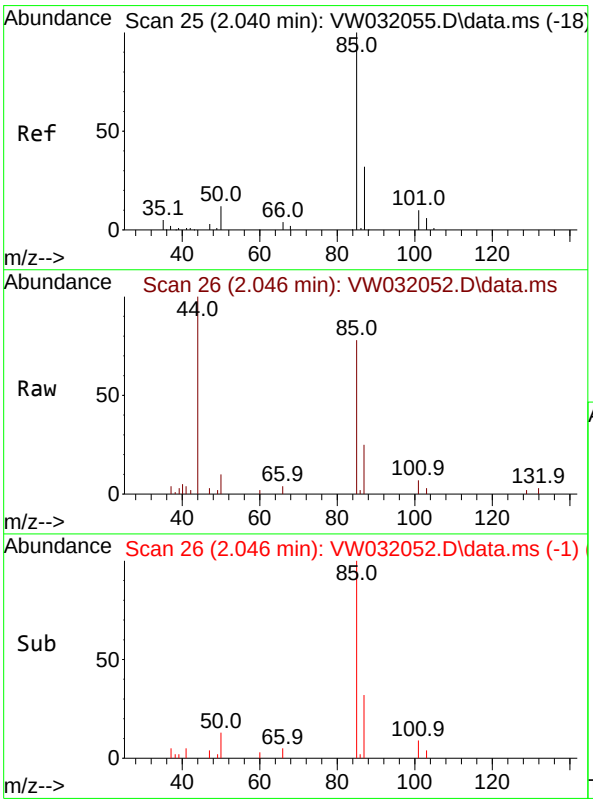

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion:168 Resp: 225574

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 64.7 | 56.0 | 84.0 |

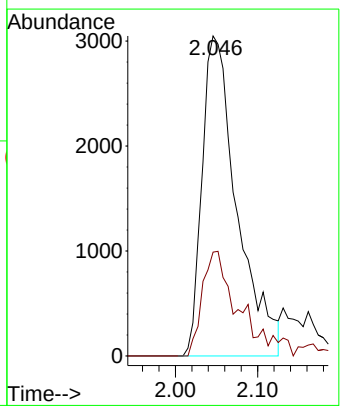


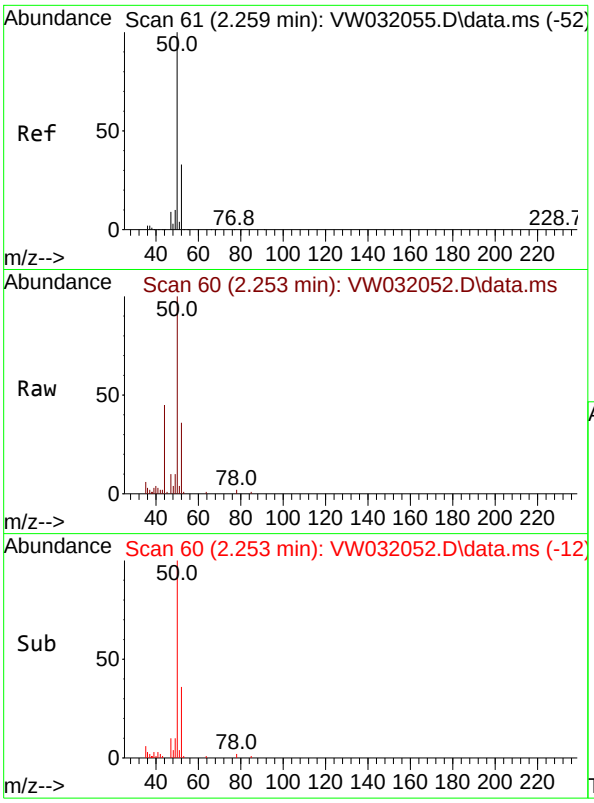




#2
Dichlorodifluoromethane
Concen: 5.583 ug/l
RT: 2.046 min Scan# 26
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 85 Resp: 9007

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.5 | 16.2 | 48.6 |



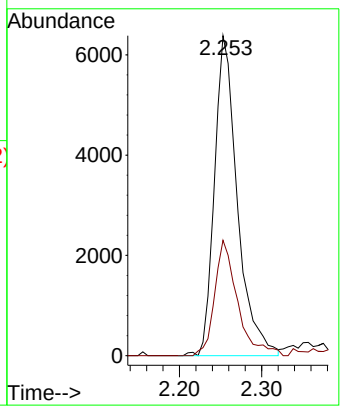


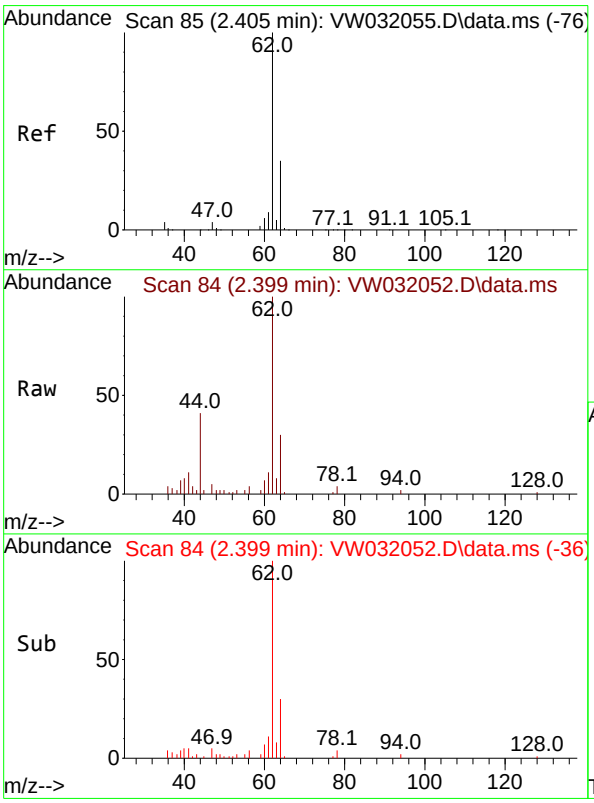

#3
Chloromethane
Concen: 5.695 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion: 50 Resp: 12377

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 36.1 | 26.6 | 39.8 |

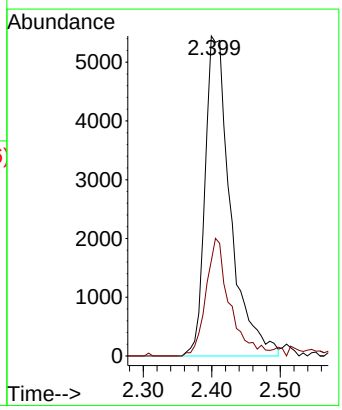


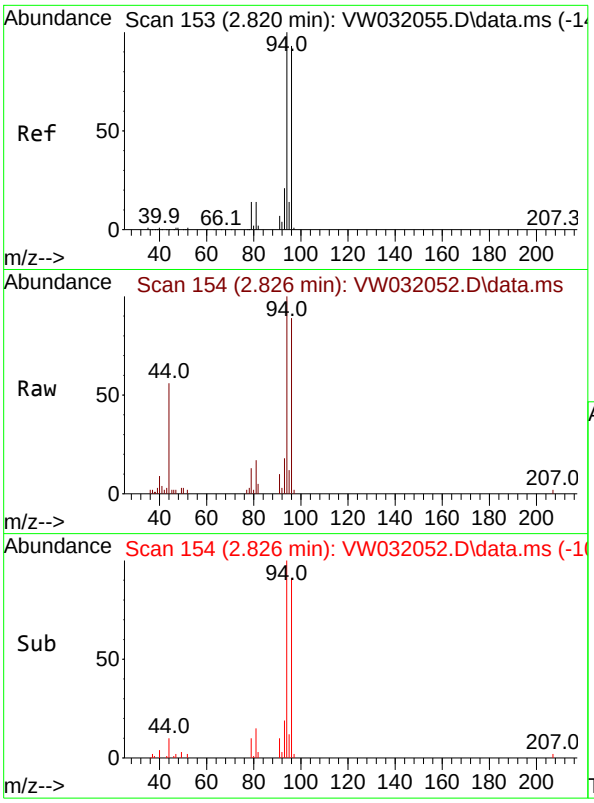




#4
Vinyl Chloride
Concen: 5.337 ug/l
RT: 2.399 min Scan# 84
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 62 Resp: 14029

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 29.8 | 27.8 | 41.6 |



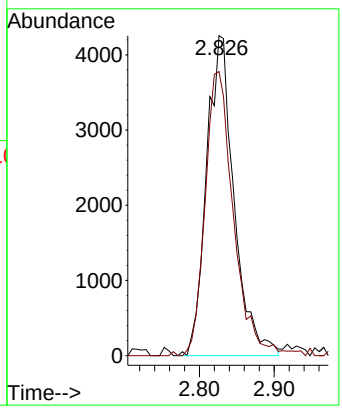


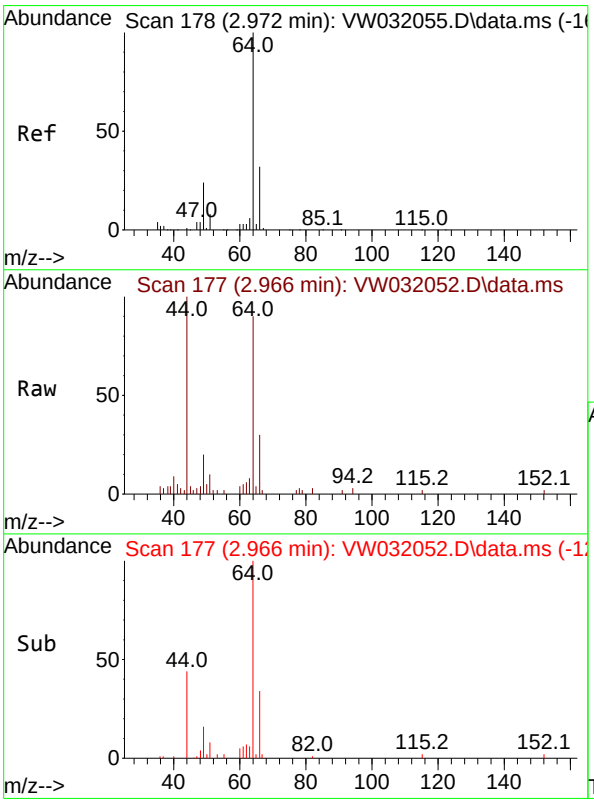

#5
Bromomethane
Concen: 5.516 ug/l
RT: 2.826 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion: 94 Resp: 10878

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 88.8 | 74.7 | 112.1 |

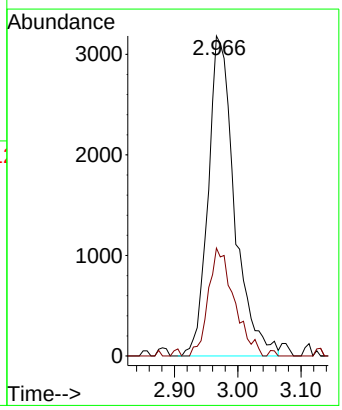


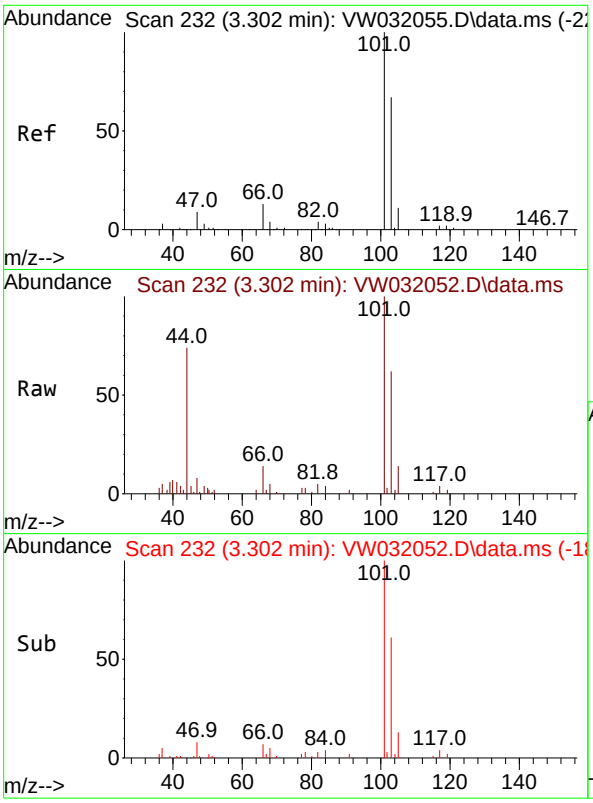




#6
Chloroethane
Concen: 5.300 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 64 Resp: 9219

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 33.7 | 26.0 | 39.0 |



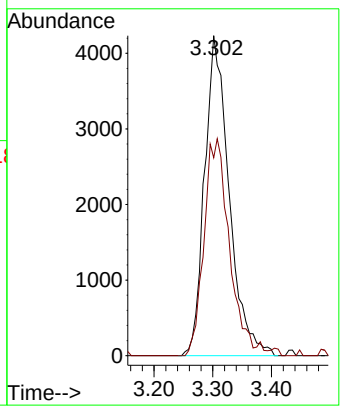


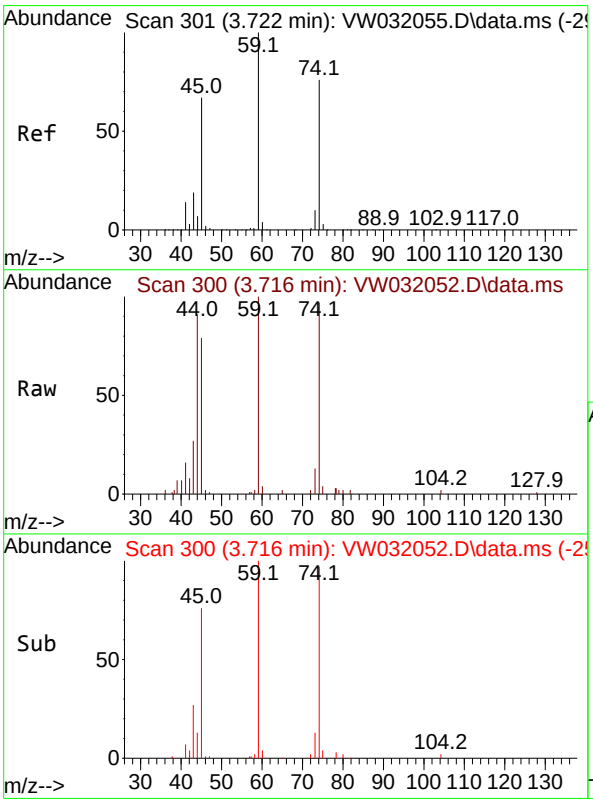

#7
Trichlorofluoromethane
Concen: 5.840 ug/l
RT: 3.302 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion:101 Resp: 12298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 61.8 | 53.4 | 80.0 |

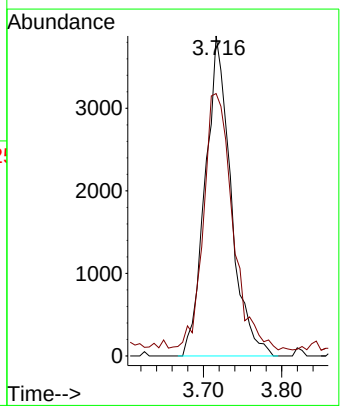


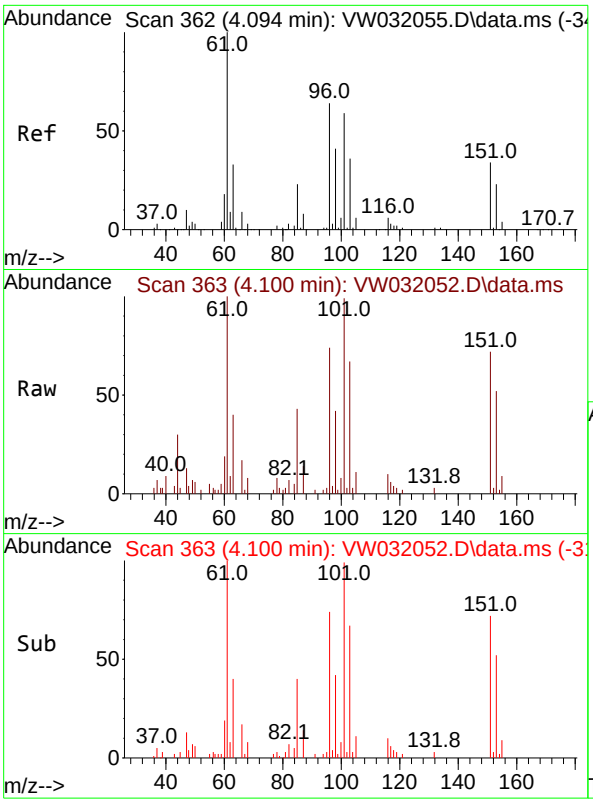




#8
Diethyl Ether
Concen: 5.114 ug/l
RT: 3.716 min Scan# 300
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 74 Resp: 8824

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 92.8 | 45.4 | 136.2 |



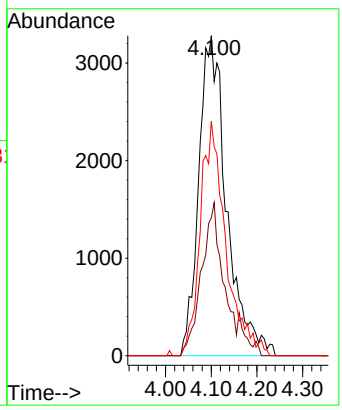


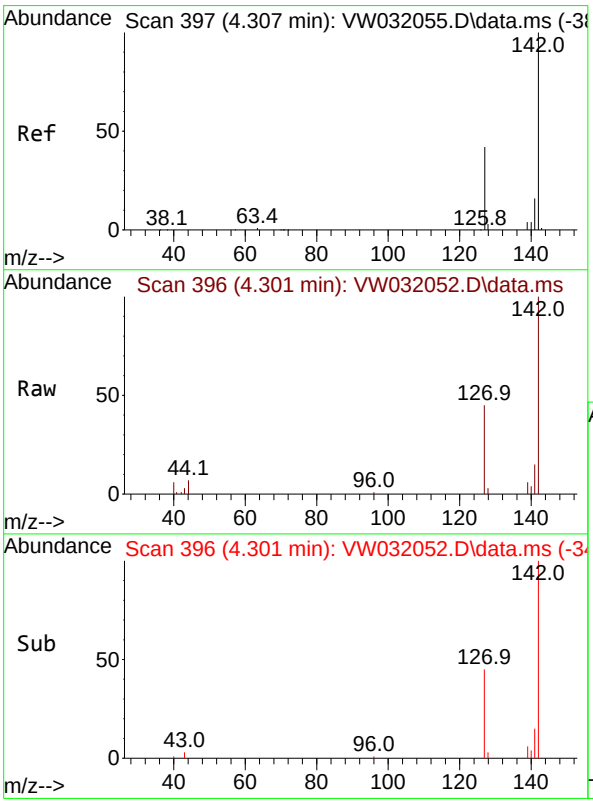

#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.596 ug/l
RT: 4.100 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion:101 Resp: 13903

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 36.9 | 34.9 | 52.3 |
| 151 | 67.0 | 56.2 | 84.4 |

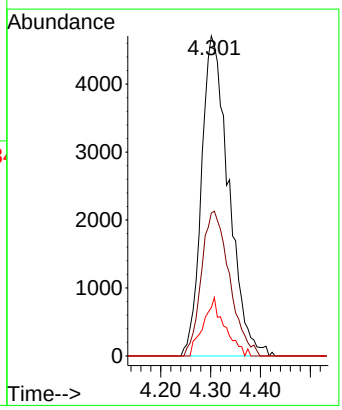


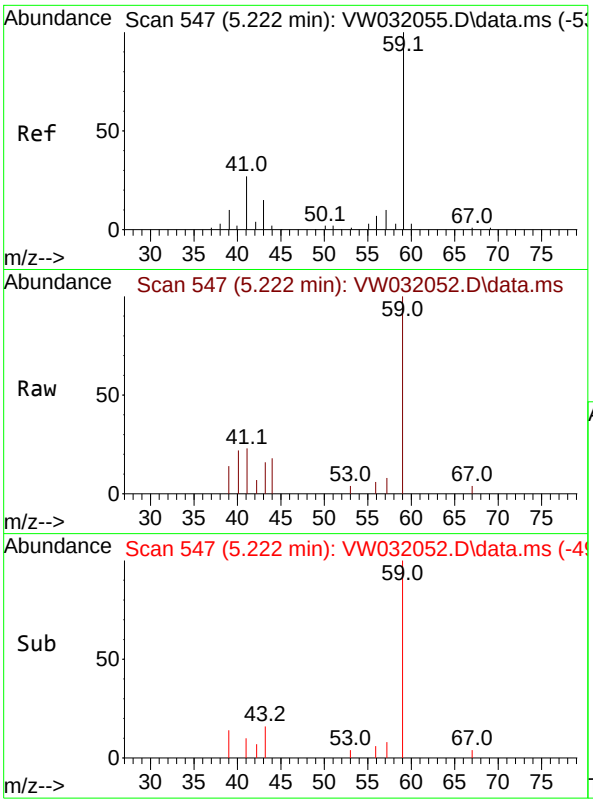




#10
Methyl Iodide
Concen: 5.050 ug/l
RT: 4.301 min Scan# 396
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:142 Resp: 17789

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 46.8 | 36.6 | 55.0 |
| 141 | 14.6 | 12.1 | 18.1 |



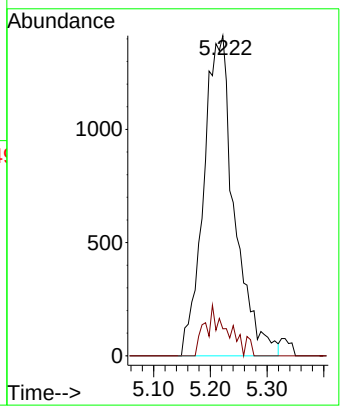


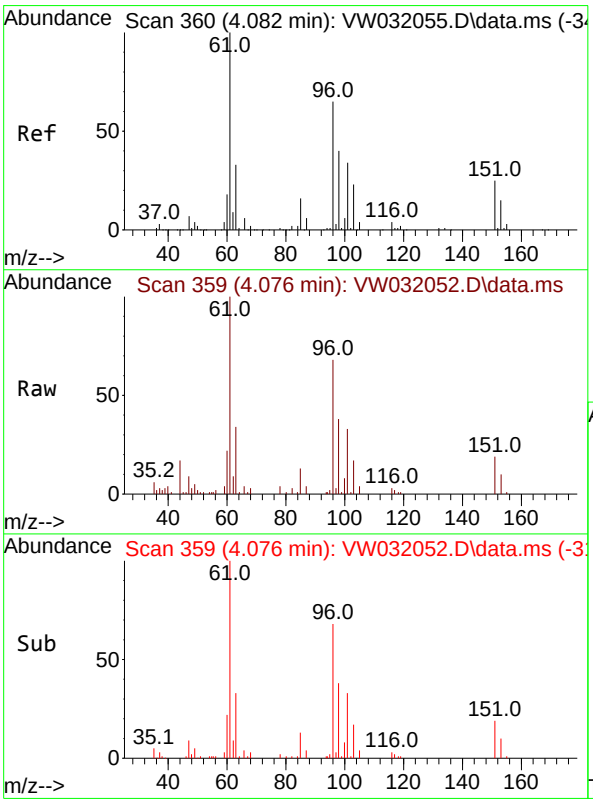

#11
Tert butyl alcohol
Concen: 25.221 ug/l
RT: 5.222 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion: 59 Resp: 5328

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 8.7 | 8.7 | 13.1 |

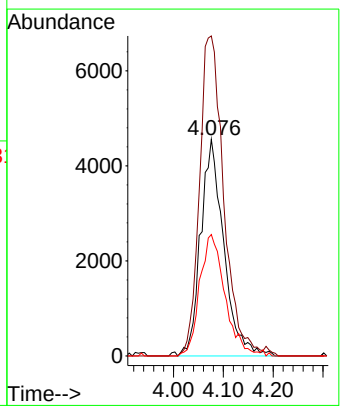


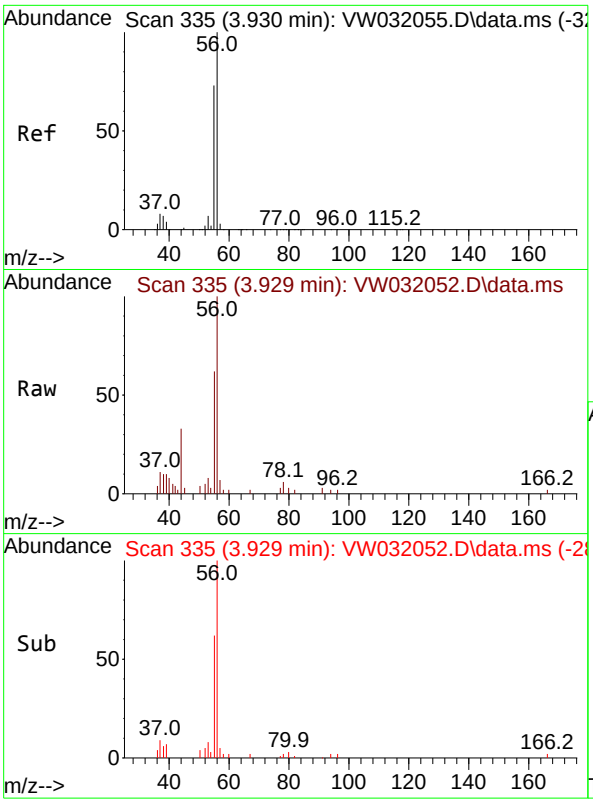




#12
1,1-Dichloroethene
Concen: 5.357 ug/l
RT: 4.076 min Scan# 359
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 96 Resp: 14655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 147.7 | 123.4 | 185.2 |
| 98 | 56.0 | 49.5 | 74.3 |



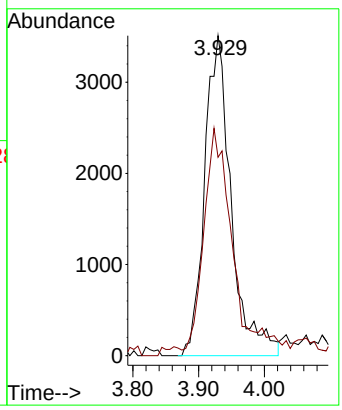


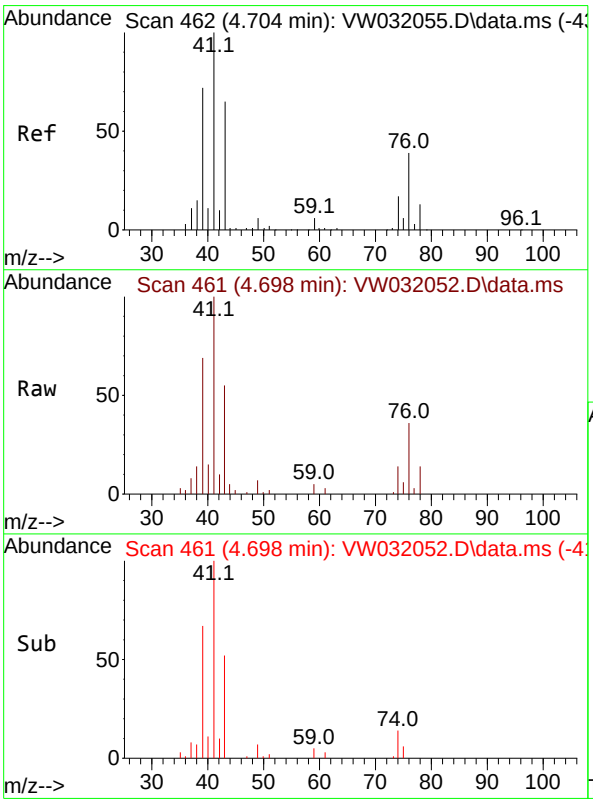

#13
Acrolein
Concen: 29.207 ug/l
RT: 3.929 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion: 56 Resp: 9831

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 78.5 | 55.4 | 83.2 |

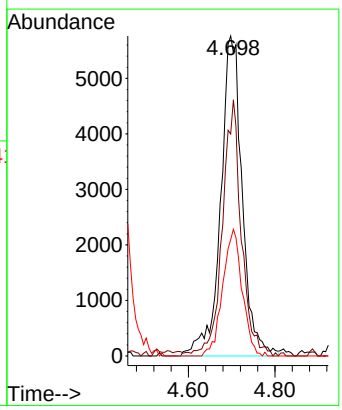


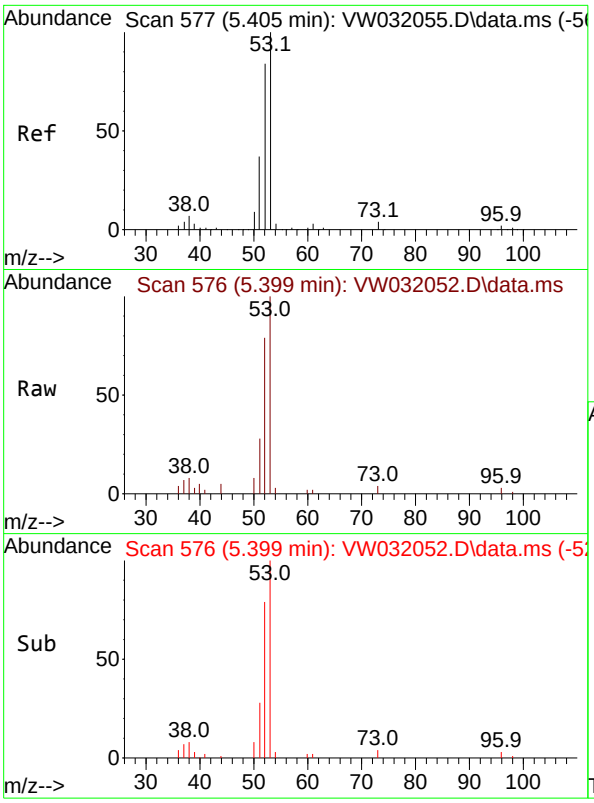




#14
Allyl chloride
Concen: 5.023 ug/l
RT: 4.698 min Scan# 461
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 41 Resp: 19999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 70.2 | 54.5 | 81.7 |
| 76 | 35.7 | 29.3 | 43.9 |



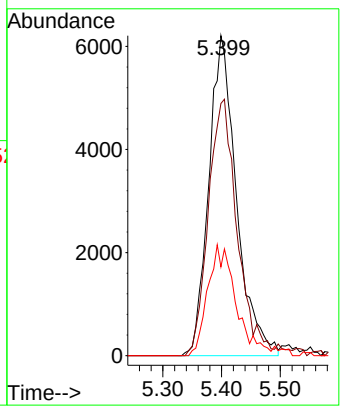


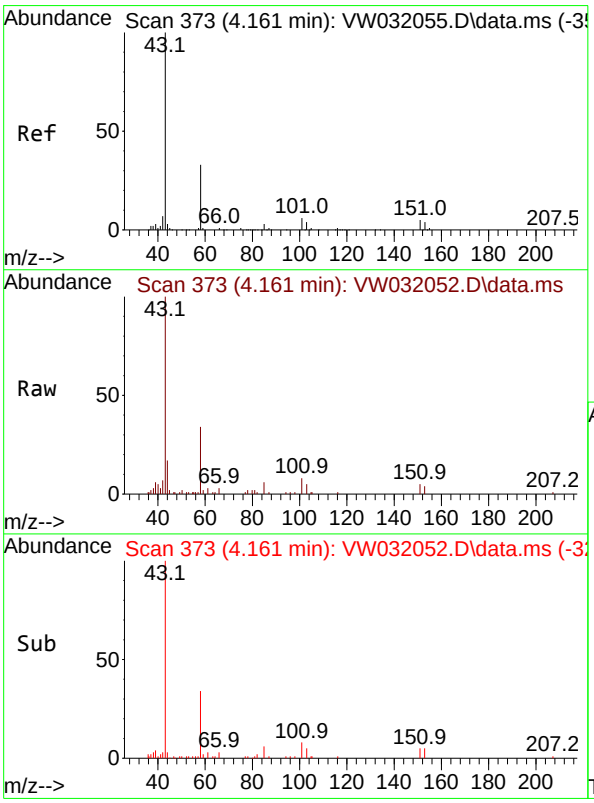

#15
Acrylonitrile
Concen: 24.751 ug/l
RT: 5.399 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion: 53 Resp: 20340

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 83.0 | 66.1 | 99.1 |
| 51 | 35.2 | 29.2 | 43.8 |

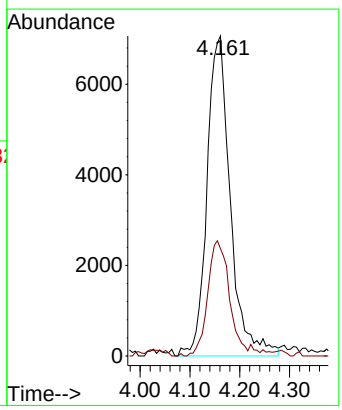


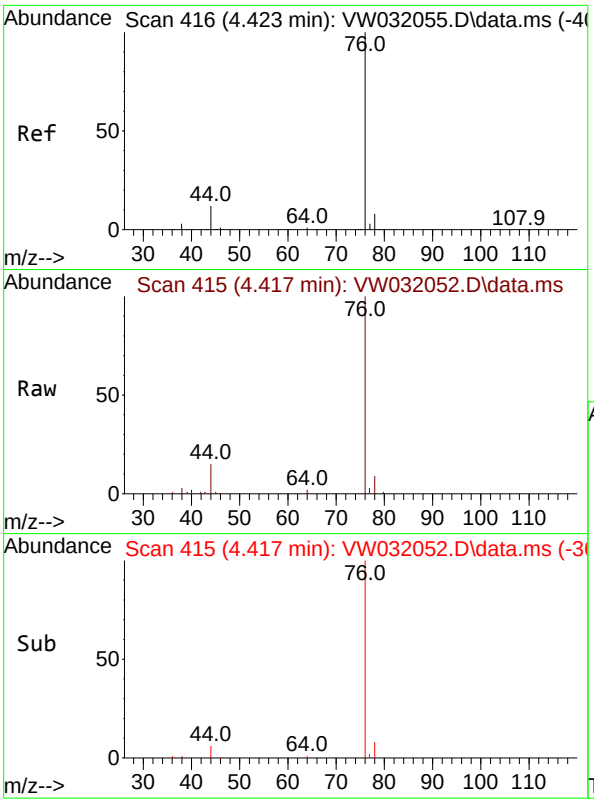




#16
Acetone
Concen: 30.337 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 43 Resp: 22915

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.5 | 26.6 | 39.8 |



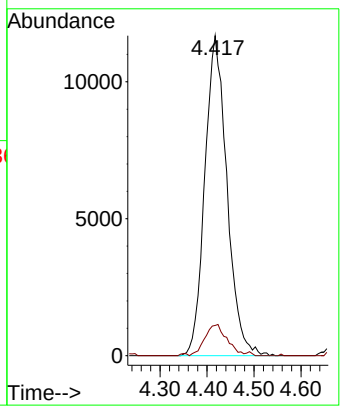


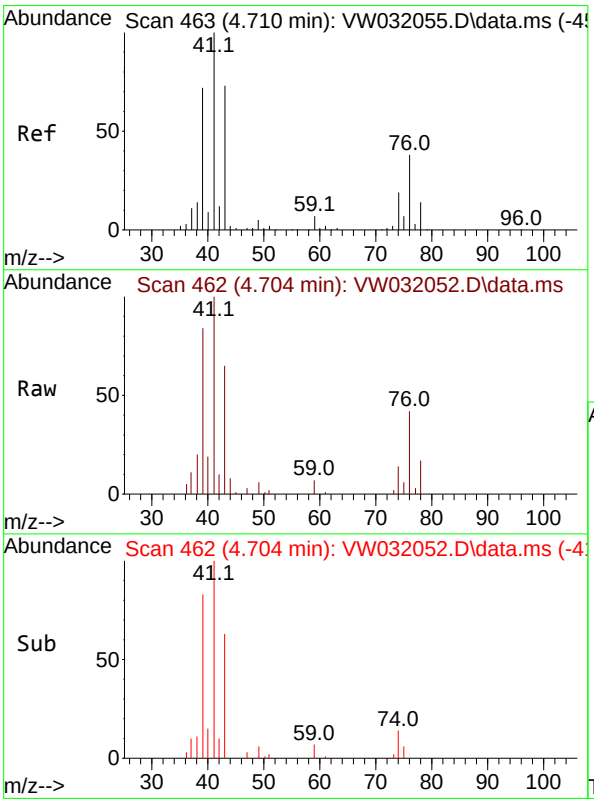

#17
Carbon Disulfide
Concen: 5.204 ug/l
RT: 4.417 min Scan# 4
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion: 76 Resp: 38213

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.4 | 6.4 | 9.6 |

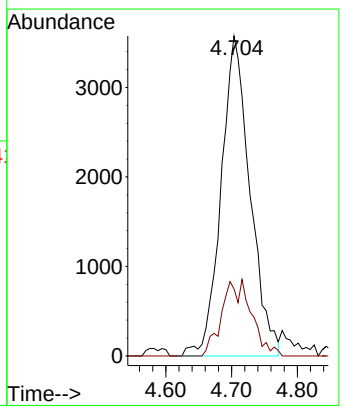


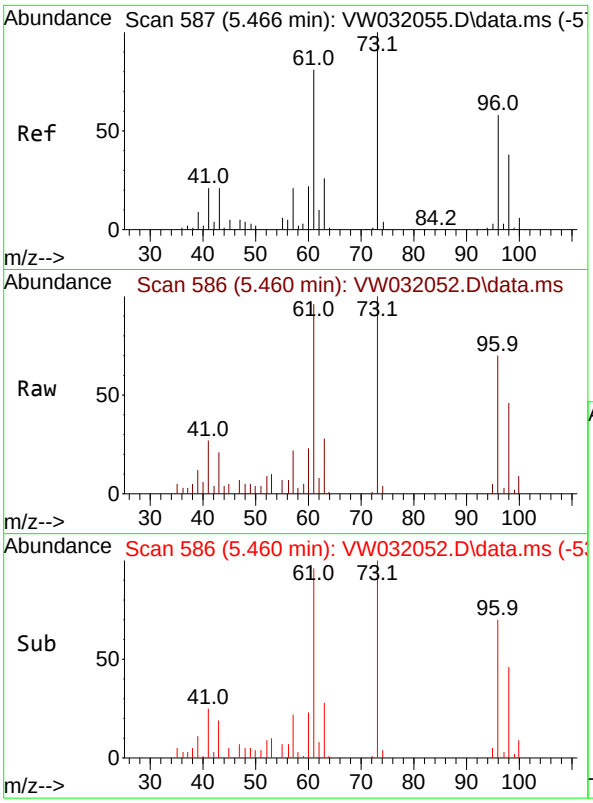




#18
Methyl Acetate
Concen: 4.578 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 43 Resp: 10943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 13.7 | 20.6 | 31.0# |



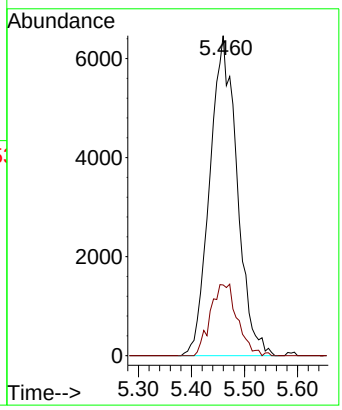


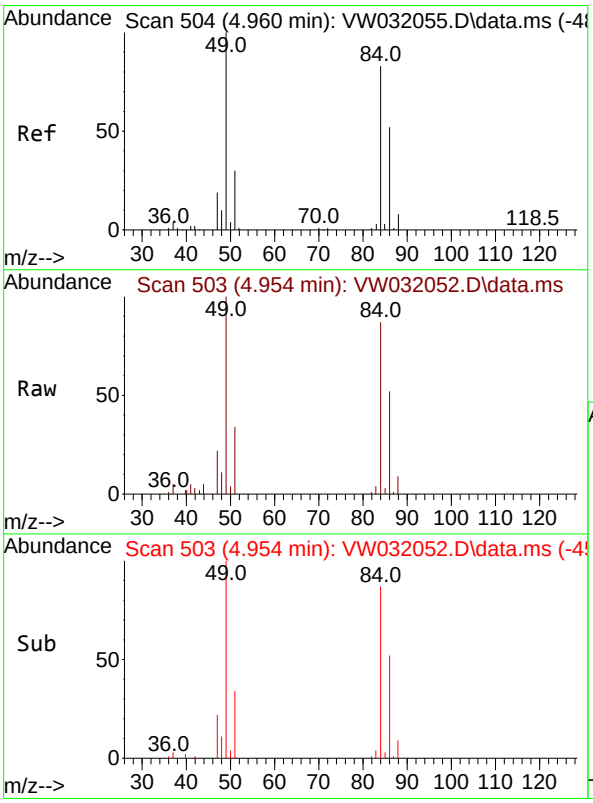

#19
Methyl tert-butyl Ether
Concen: 4.785 ug/l
RT: 5.460 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion: 73 Resp: 23062

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.1 | 17.2 | 25.8 |

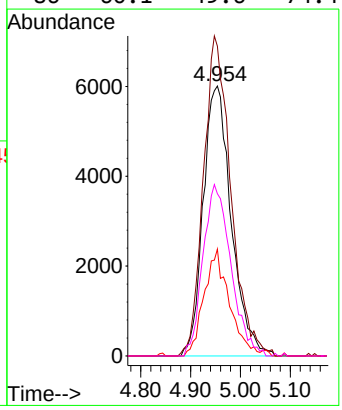


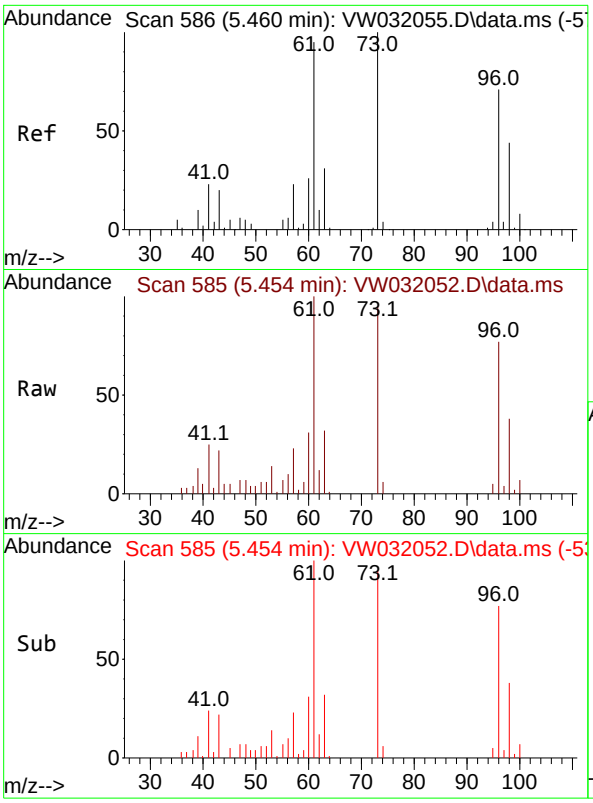




#20
Methylene Chloride
Concen: 6.737 ug/l
RT: 4.954 min Scan# 503
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 84 Resp: 23529

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 114.8 | 95.9 | 143.9 |
| 51 | 39.6 | 28.6 | 43.0 |
| 86 | 60.1 | 49.6 | 74.4 |



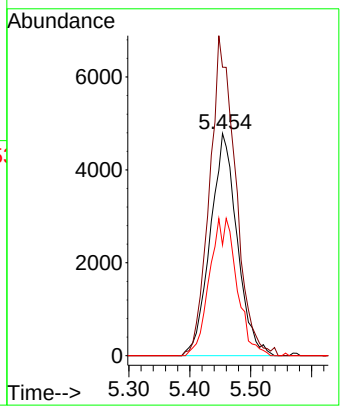


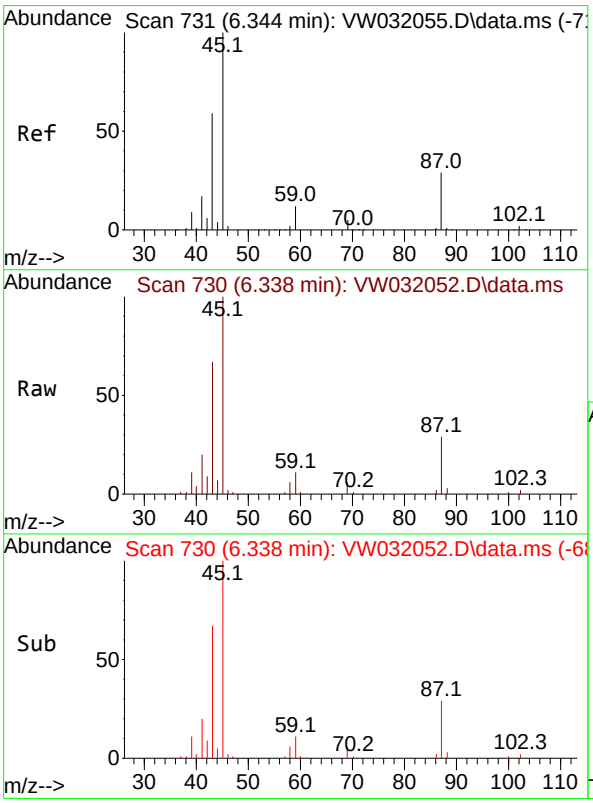

#21
trans-1,2-Dichloroethene
Concen: 5.053 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion: 96 Resp: 14671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 129.9 | 106.8 | 160.2 |
| 98 | 49.8 | 49.6 | 74.4 |

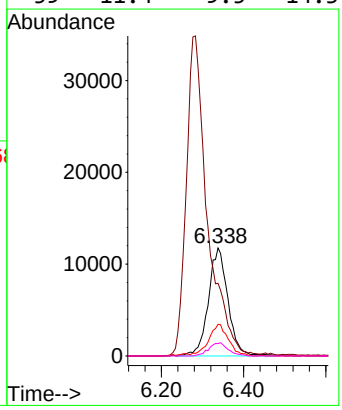


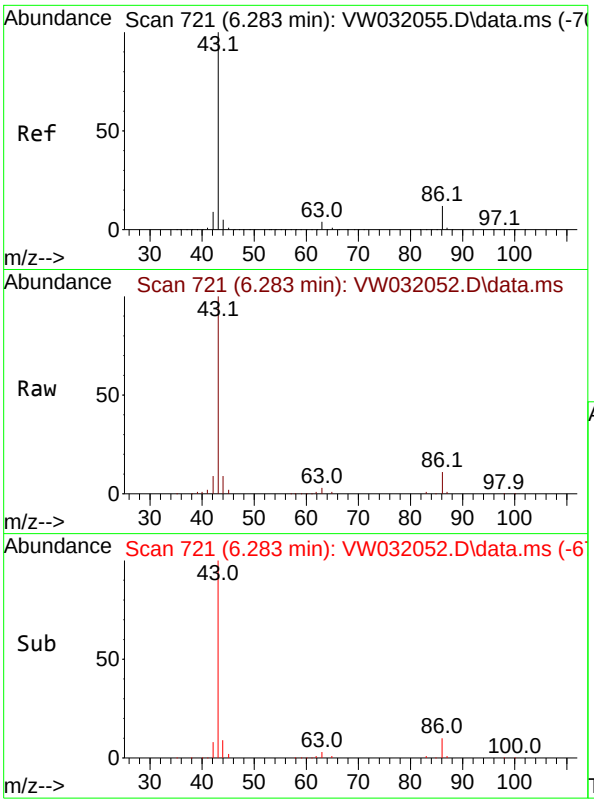




#22
Diisopropyl ether
Concen: 4.634 ug/l
RT: 6.338 min Scan# 730
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 45 Resp: 38895

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 66.3 | 47.0 | 70.4 |
| 87 | 29.4 | 23.8 | 35.8 |
| 59 | 11.4 | 9.5 | 14.3 |



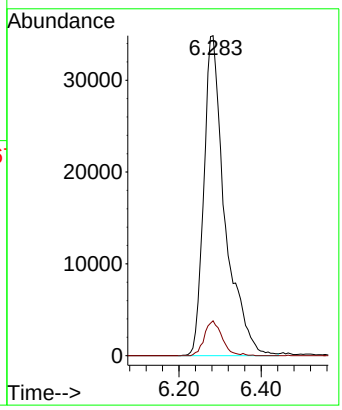


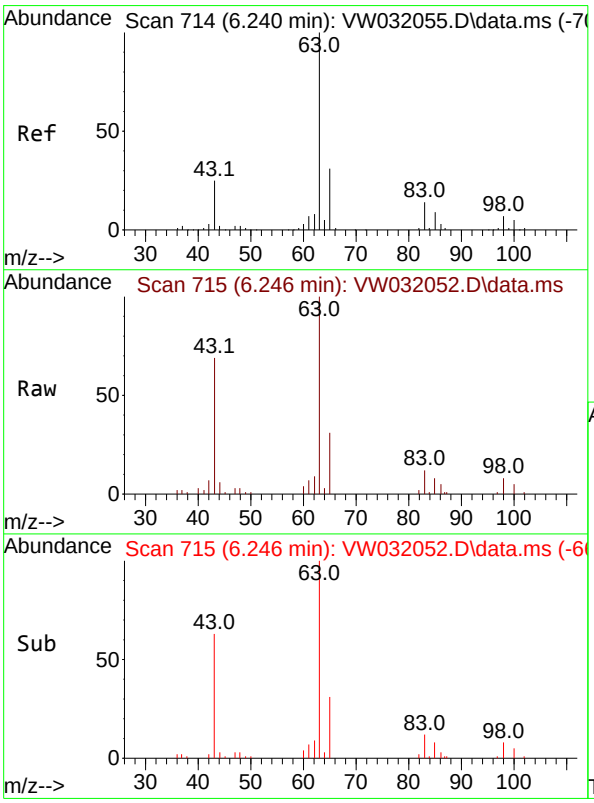

#23
Vinyl Acetate
Concen: 22.588 ug/l
RT: 6.283 min Scan# 7
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion: 43 Resp: 124477

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.9 | 9.4 | 14.0 |

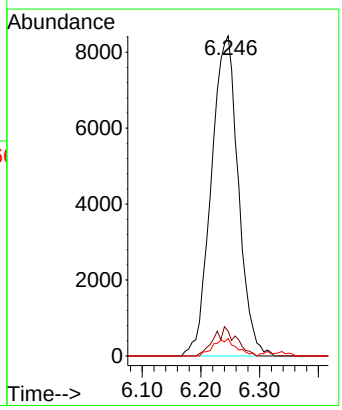


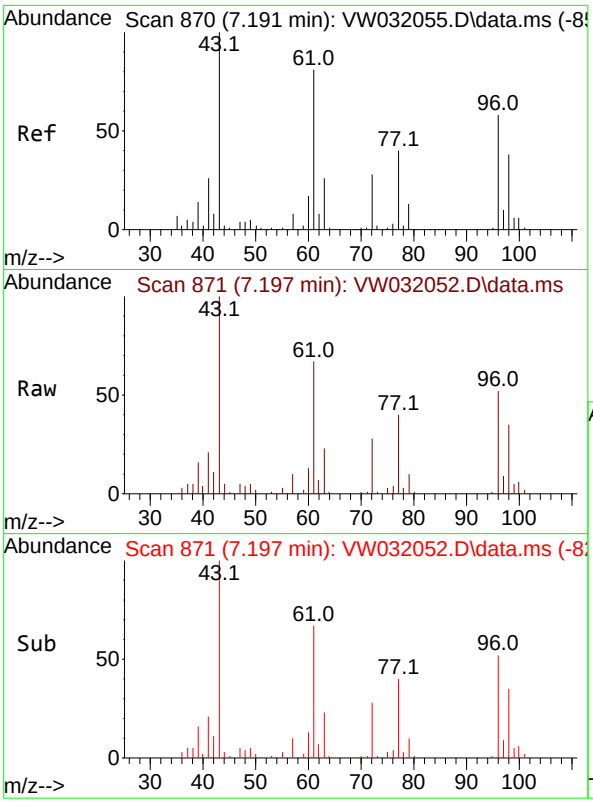




#24
1,1-Dichloroethane
Concen: 5.018 ug/l
RT: 6.246 min Scan# 715
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 63 Resp: 26909

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.8 | 3.7 | 11.1 |
| 100 | 5.4 | 2.5 | 7.4 |



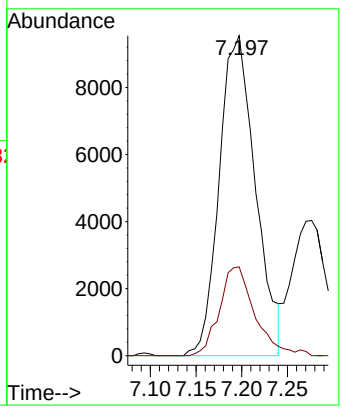


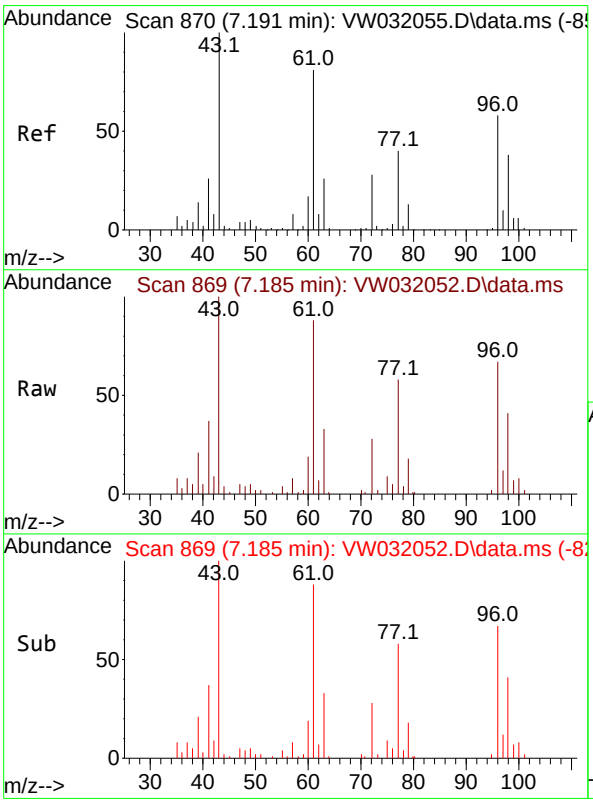

#25
2-Butanone
Concen: 24.484 ug/l
RT: 7.197 min Scan# 8
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion: 43 Resp: 26284

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 27.8 | 22.3 | 33.5 |

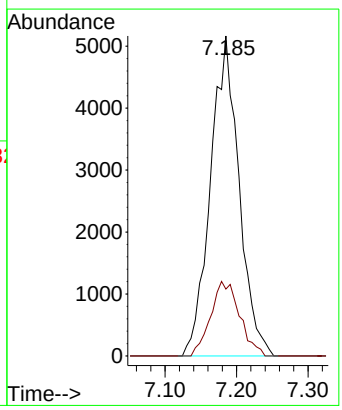


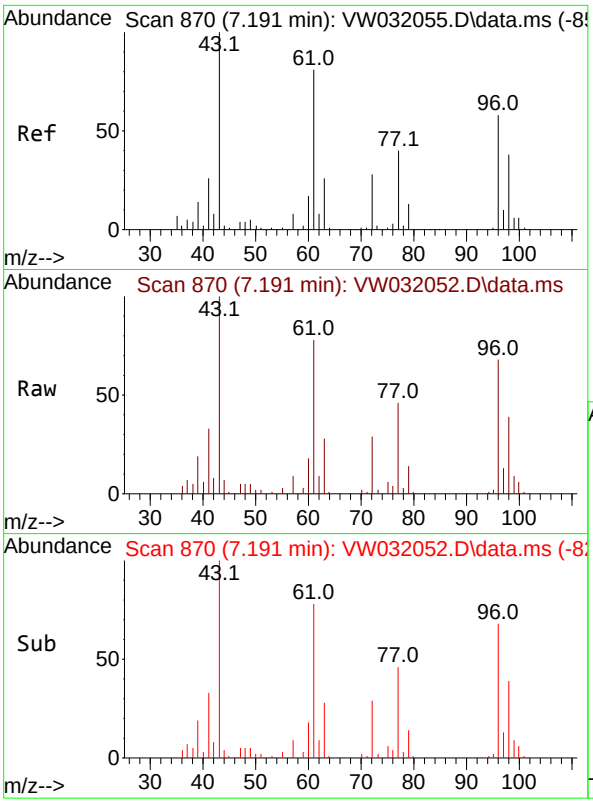




#26
2,2-Dichloropropane
Concen: 5.326 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 77 Resp: 14330

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.6 | 12.3 | 36.9 |



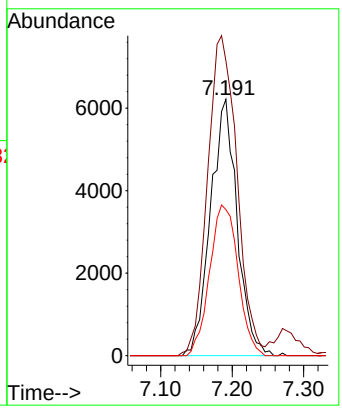


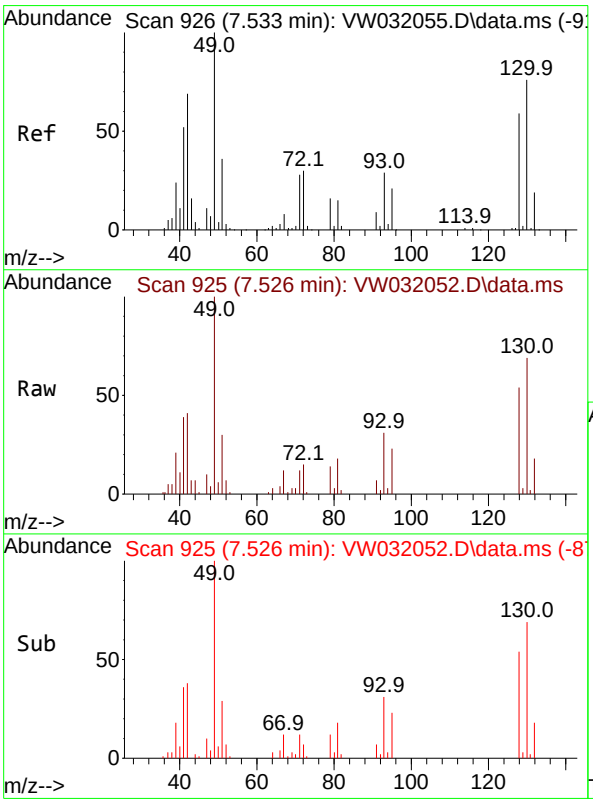

#27
cis-1,2-Dichloroethene
Concen: 4.727 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion: 96 Resp: 16041

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 138.1 | 0.0 | 281.2 |
| 98 | 62.9 | 0.0 | 130.8 |

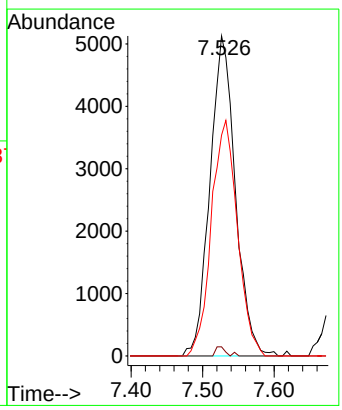


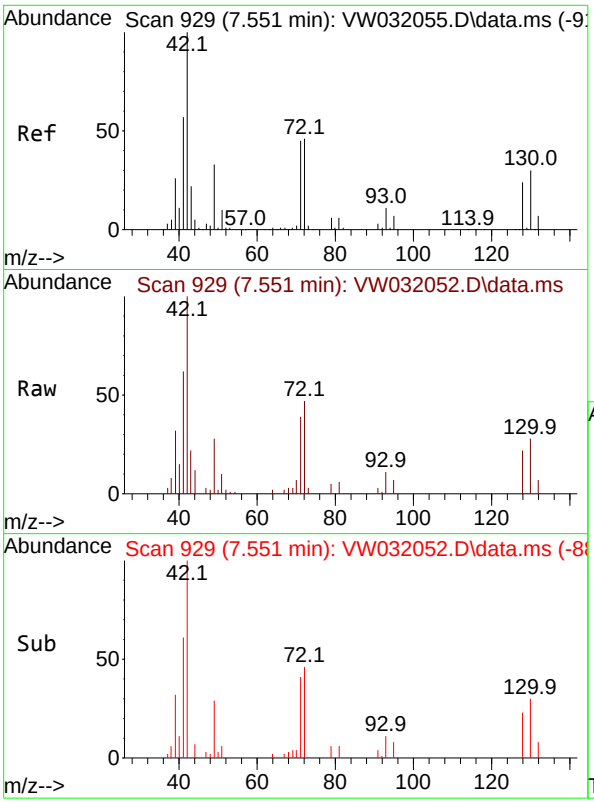




#28
Bromochloromethane
Concen: 5.188 ug/l
RT: 7.526 min Scan# 925
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 49 Resp: 12660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.2 | 0.0 | 4.2 |
| 130 | 75.4 | 61.9 | 92.9 |



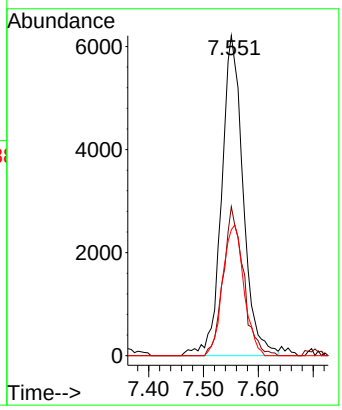


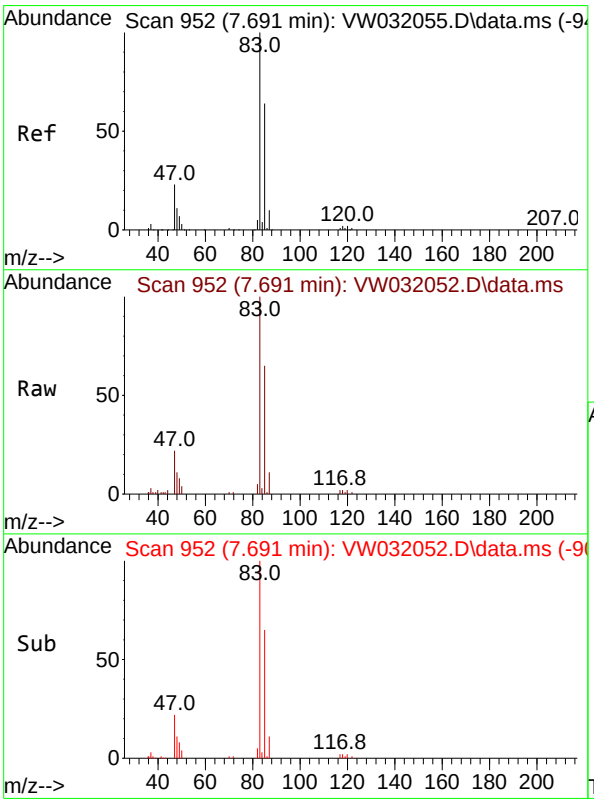

#29
Tetrahydrofuran
Concen: 23.963 ug/l
RT: 7.551 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion: 42 Resp: 16965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 43.6 | 36.6 | 55.0 |
| 71 | 40.3 | 34.7 | 52.1 |

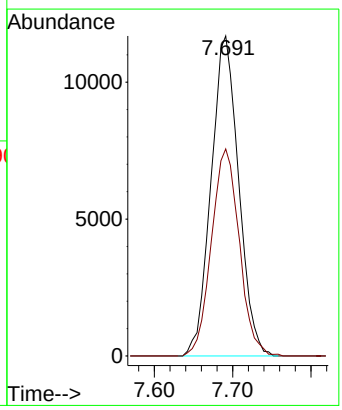


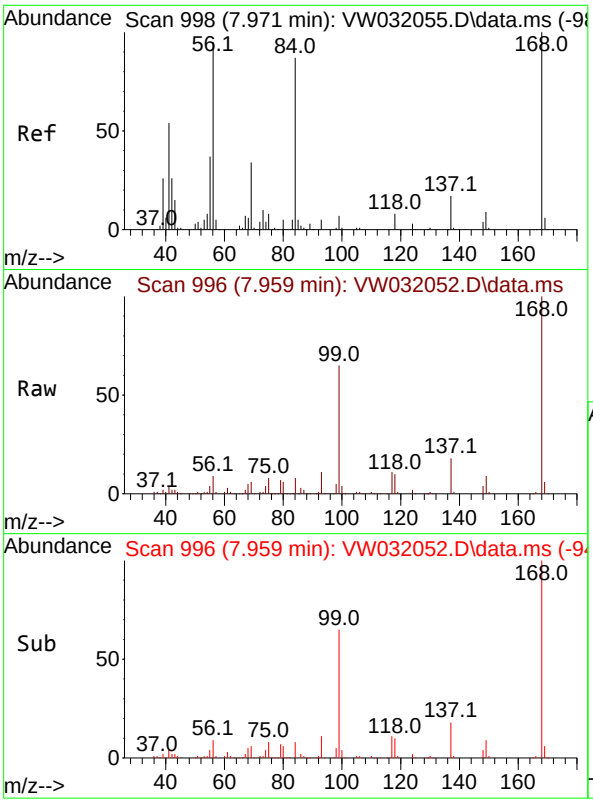




#30
Chloroform
Concen: 5.028 ug/l
RT: 7.691 min Scan# 952
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 83 Resp: 28586

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.7 | 51.0 | 76.4 |



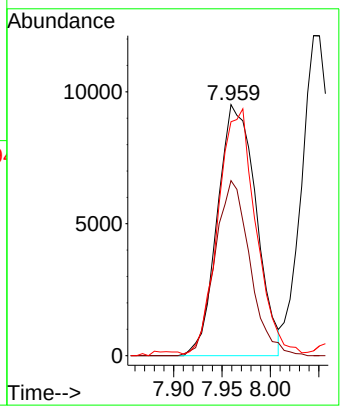


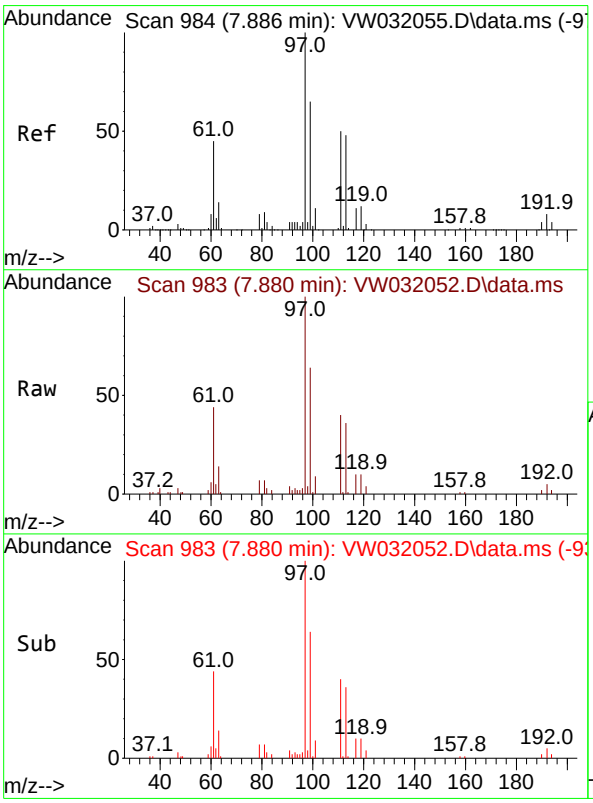

#31
Cyclohexane
Concen: 5.677 ug/l
RT: 7.959 min Scan# 9
Delta R.T. -0.012 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion: 56 Resp: 26393

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 69.7 | 28.6 | 42.8# |
| 84 | 91.7 | 73.0 | 109.4 |

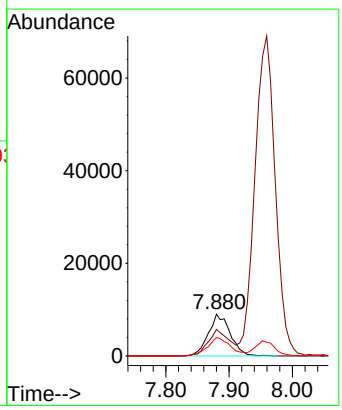


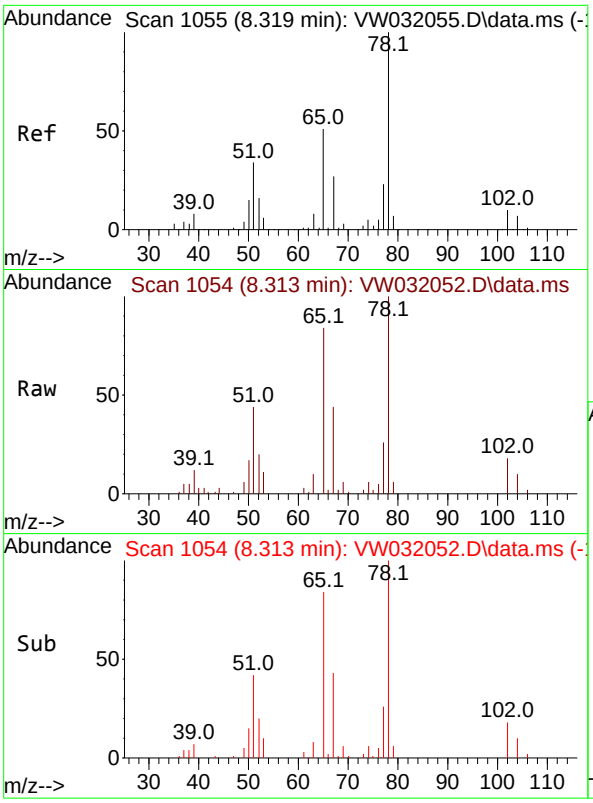




#32
1,1,1-Trichloroethane
Concen: 5.246 ug/l
RT: 7.880 min Scan# 983
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 97 Resp: 21662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 60.6 | 51.8 | 77.8 |
| 61 | 46.4 | 35.9 | 53.9 |



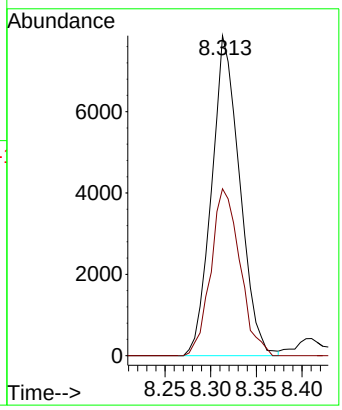


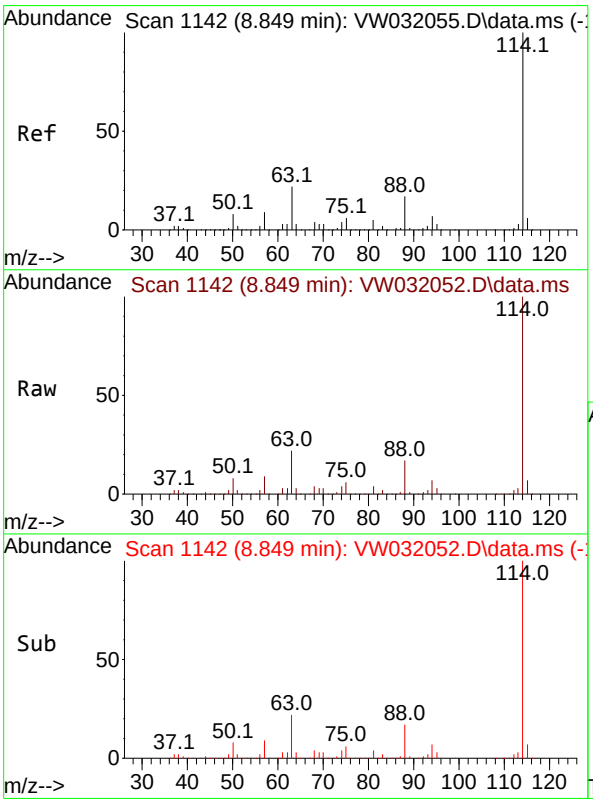

#33
1,2-Dichloroethane-d4
Concen: 5.158 ug/l
RT: 8.313 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion: 65 Resp: 16827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 54.0 | 0.0 | 102.4 |

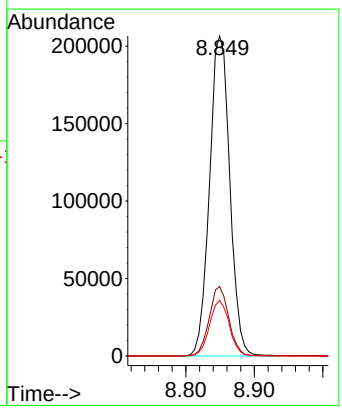


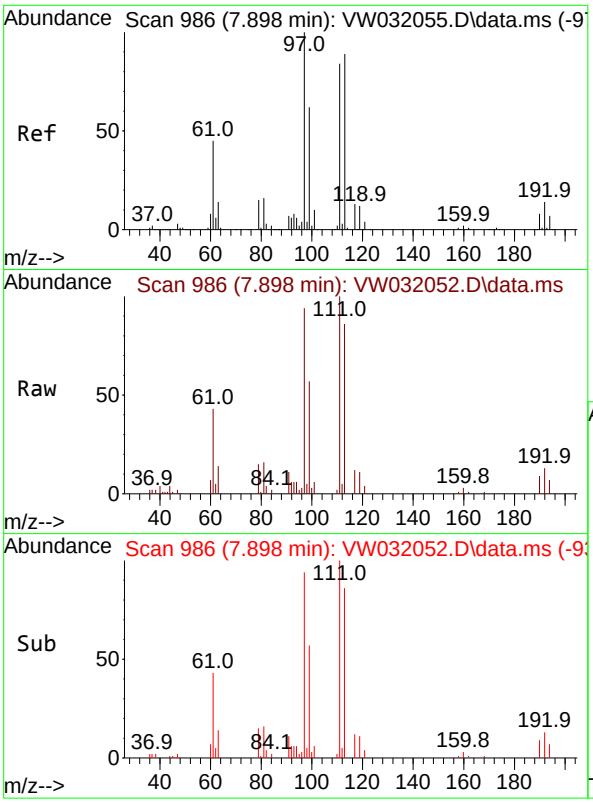




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:114 Resp: 424617

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.7 | 0.0 | 43.0 |
| 88 | 17.4 | 0.0 | 33.8 |



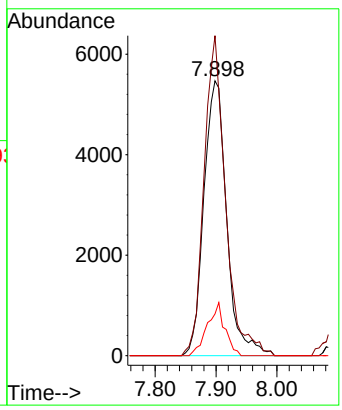


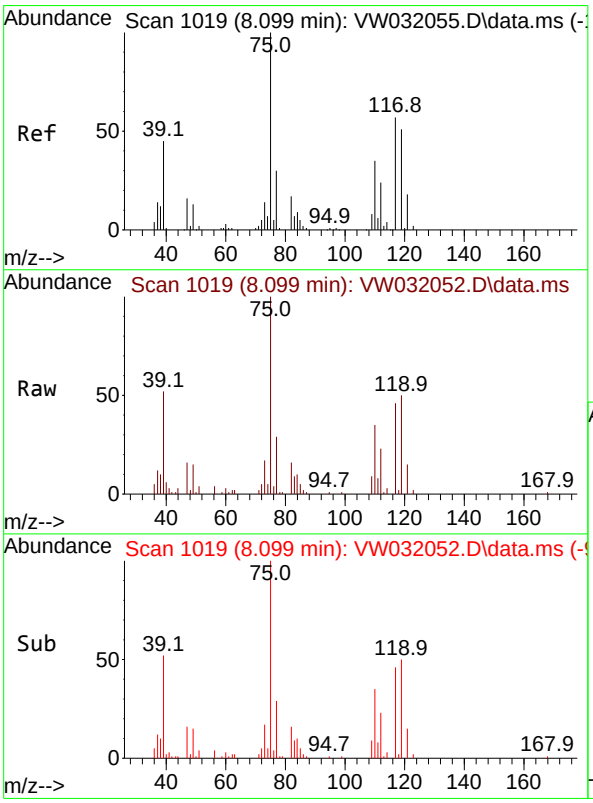

#35
Dibromofluoromethane
Concen: 5.205 ug/l
RT: 7.898 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion:113 Resp: 14278

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 109.4 | 80.1 | 120.1 |
| 192 | 14.8 | 13.1 | 19.7 |

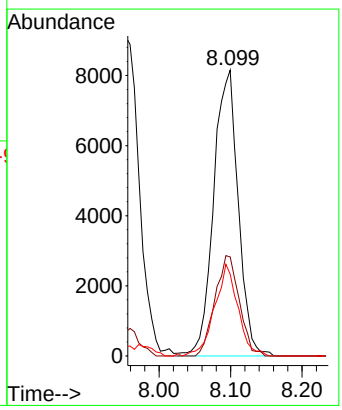


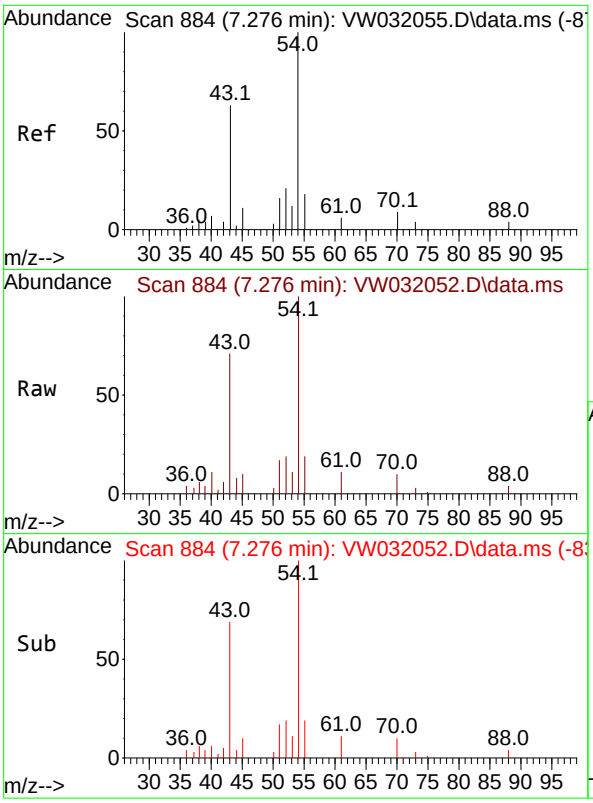




#36
1,1-Dichloropropene
Concen: 5.034 ug/l
RT: 8.099 min Scan# 1019
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 75 Resp: 19468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 34.7 | 17.4 | 52.2 |
| 77 | 30.4 | 24.7 | 37.1 |



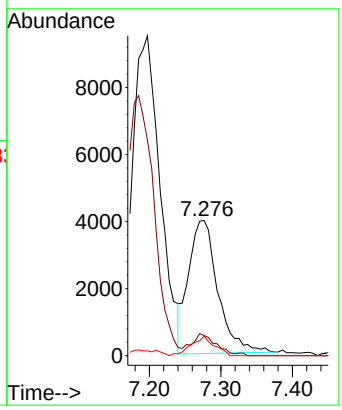


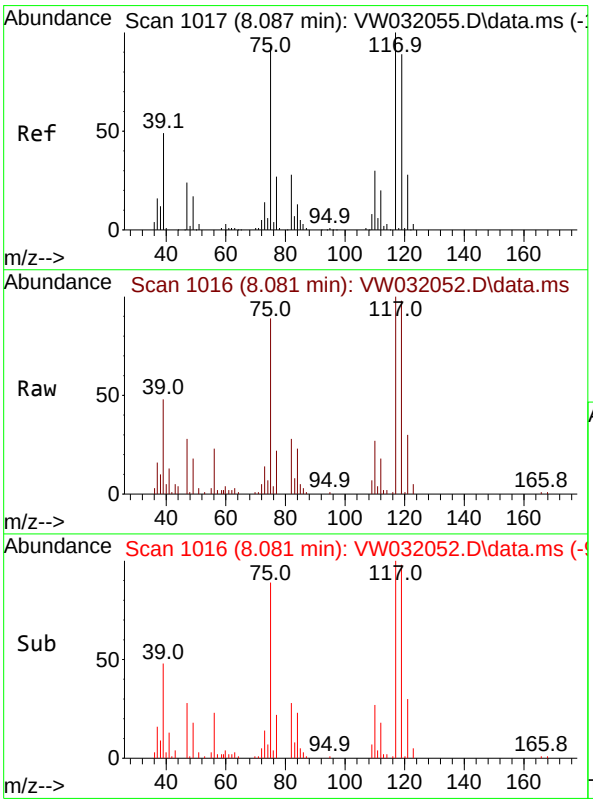

#37
Ethyl Acetate
Concen: 4.990 ug/l
RT: 7.276 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion: 43 Resp: 11365

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.9 | 11.8 | 17.6 |
| 70 | 11.4 | 9.4 | 14.0 |

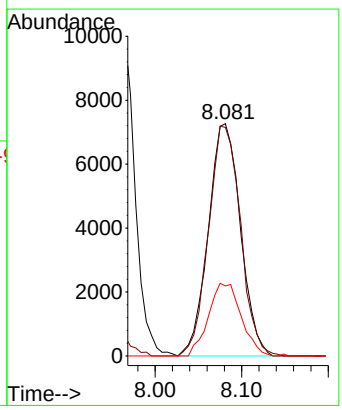


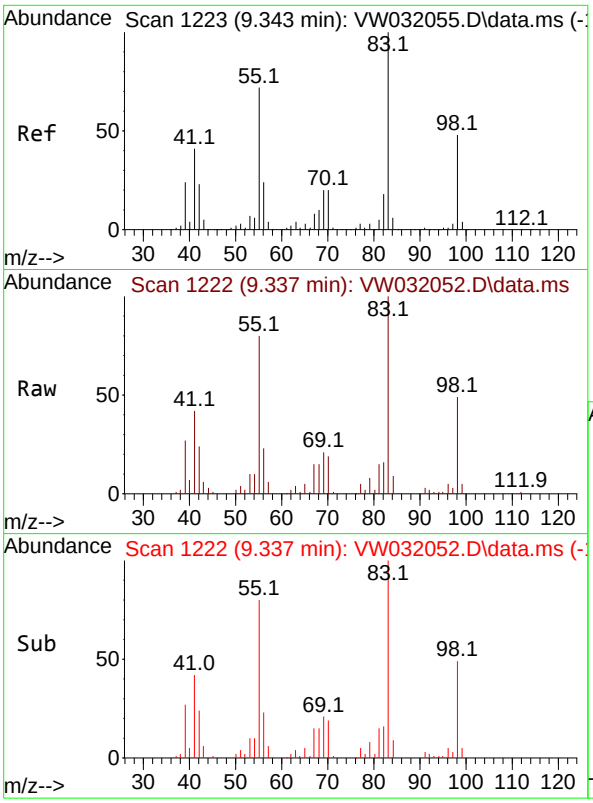




#38
Carbon Tetrachloride
Concen: 5.020 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:117 Resp: 18734

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 98.3 | 71.4 | 107.2 |
| 121 | 30.2 | 22.3 | 33.5 |



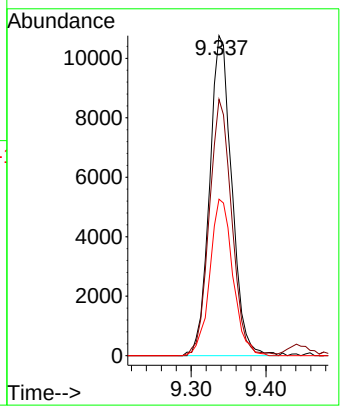


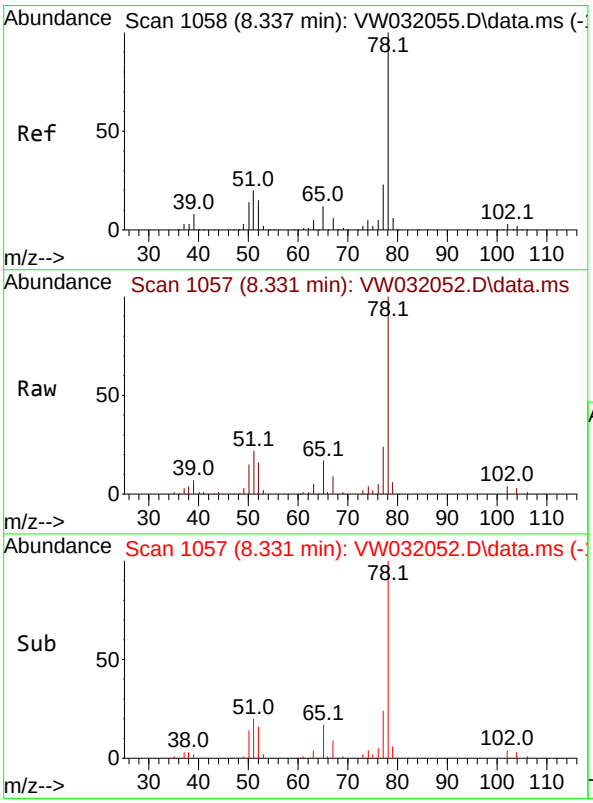

#39
Methylcyclohexane
Concen: 4.728 ug/l
RT: 9.337 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion: 83 Resp: 22284

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 80.1 | 57.9 | 86.9 |
| 98 | 48.9 | 38.3 | 57.5 |

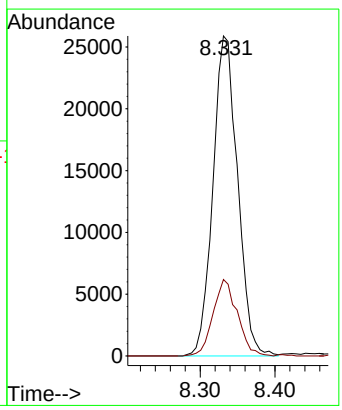


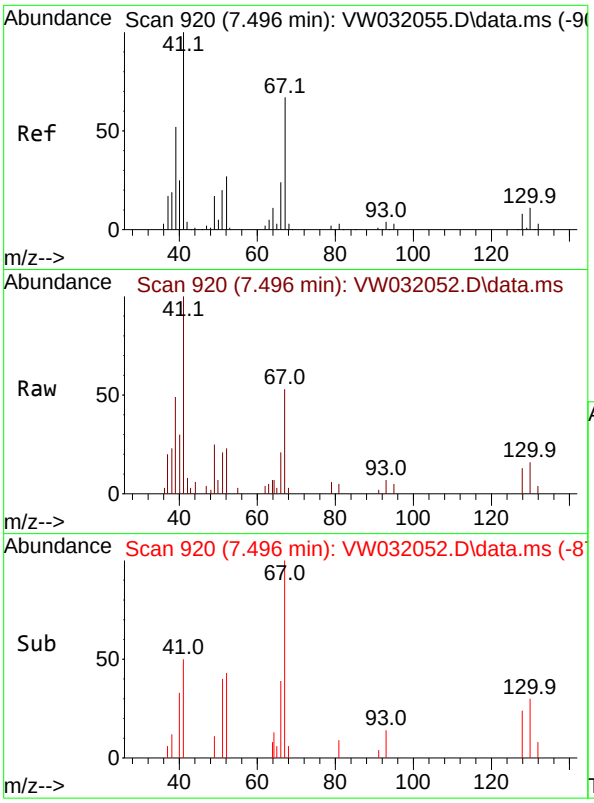




#40
Benzene
Concen: 4.941 ug/l
RT: 8.331 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 78 Resp: 59395

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.9 | 18.4 | 27.6 |



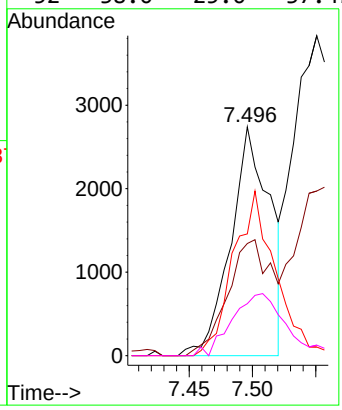


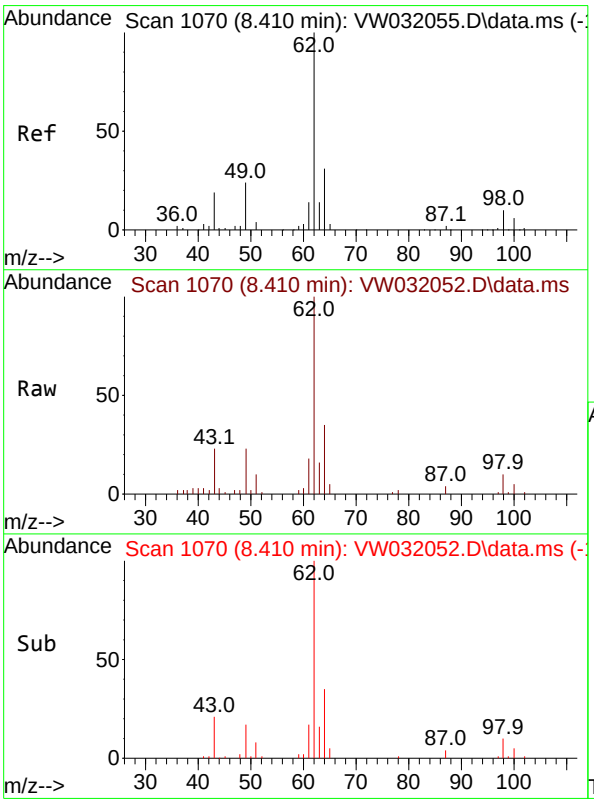

#41
Methacrylonitrile
Concen: 4.576 ug/l
RT: 7.496 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion: 41 Resp: 5910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 57.0 | 42.6 | 63.8 |
| 67 | 78.0 | 61.0 | 91.4 |
| 52 | 38.0 | 25.0 | 37.4# |

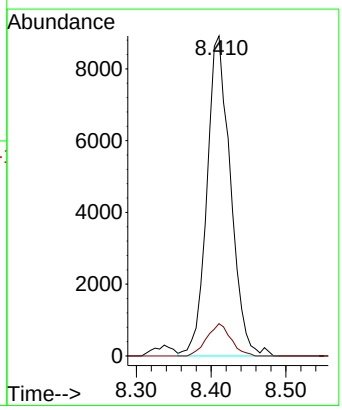


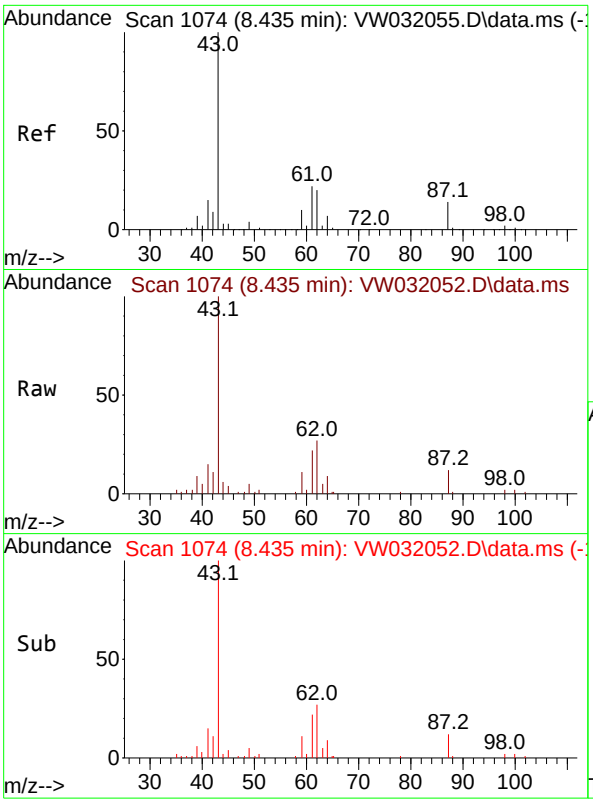




#42
1,2-Dichloroethane
Concen: 5.085 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 62 Resp: 19560

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.2 | 0.0 | 19.8 |



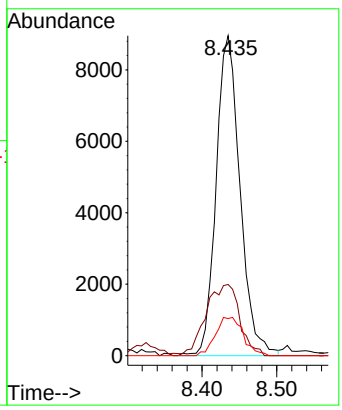


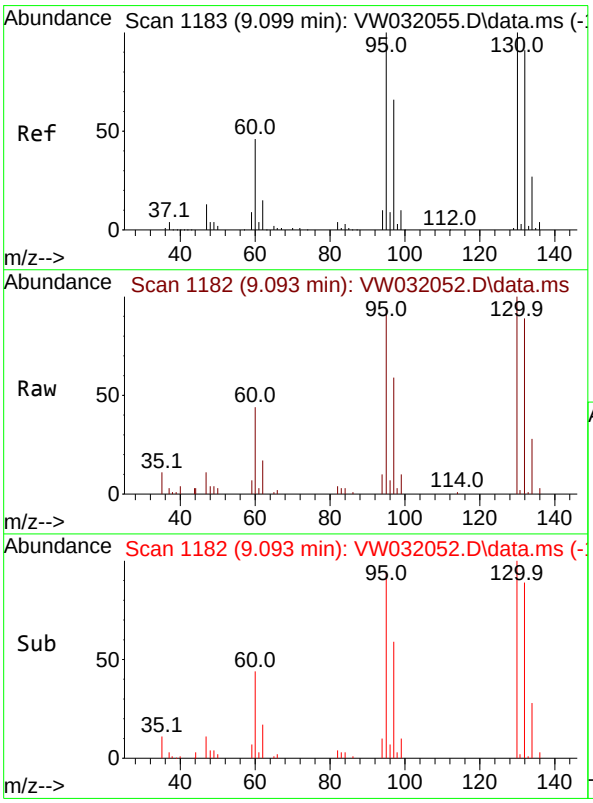

#43
Isopropyl Acetate
Concen: 4.756 ug/l
RT: 8.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion: 43 Resp: 19928

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 31.3 | 23.8 | 35.8 |
| 87 | 13.9 | 11.7 | 17.5 |

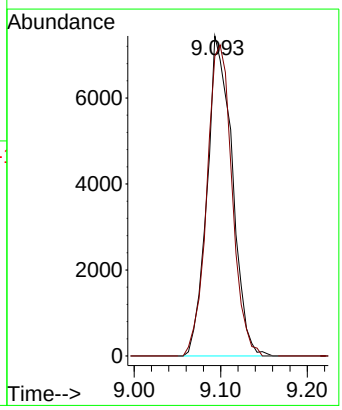


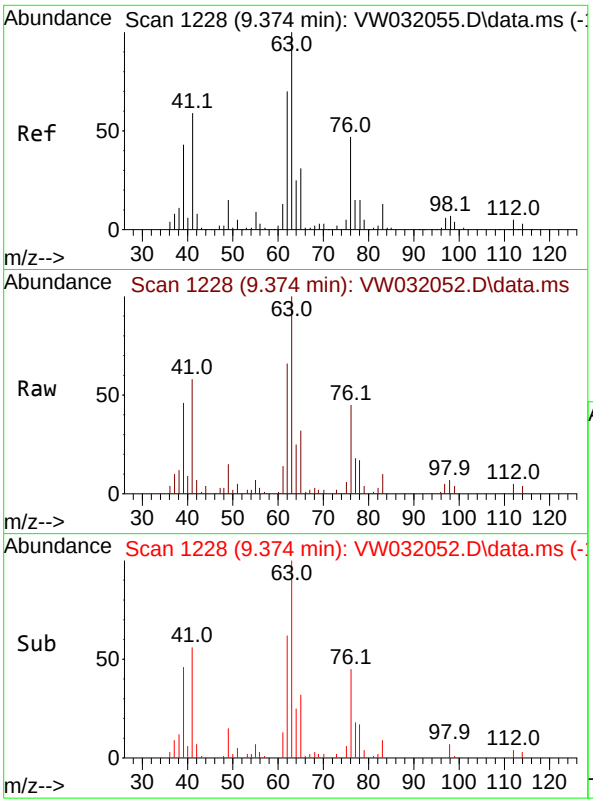




#44
Trichloroethene
Concen: 5.240 ug/l
RT: 9.093 min Scan# 1182
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:130 Resp: 14999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 93.7 | 0.0 | 200.6 |



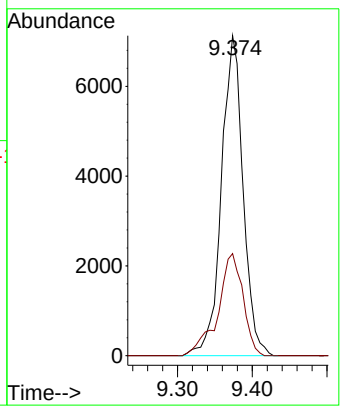


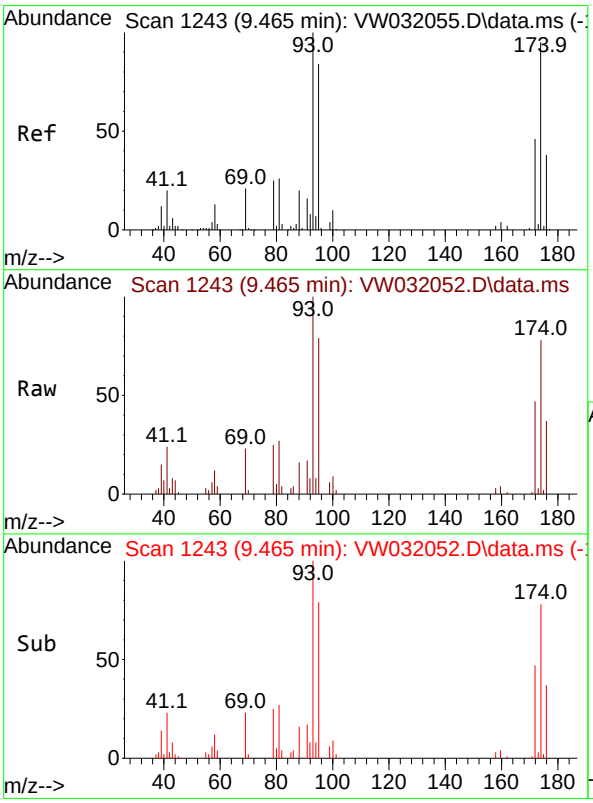

#45
1,2-Dichloropropane
Concen: 4.954 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion: 63 Resp: 14387

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.9 | 24.6 | 36.8 |

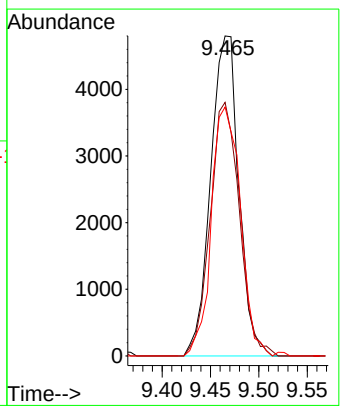


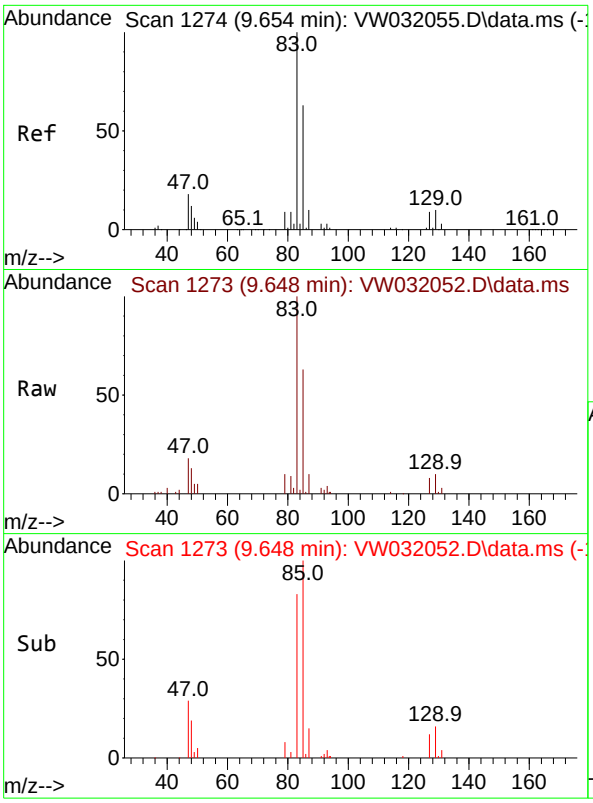




#46
Dibromomethane
Concen: 5.204 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 93 Resp: 9753

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.0 | 65.3 | 97.9 |
| 174 | 80.1 | 68.6 | 102.8 |



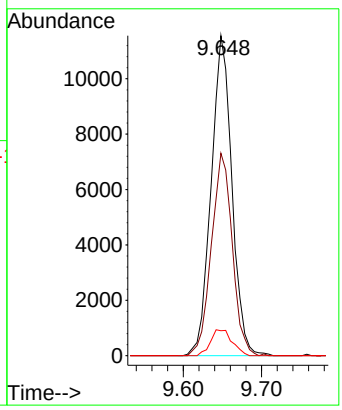


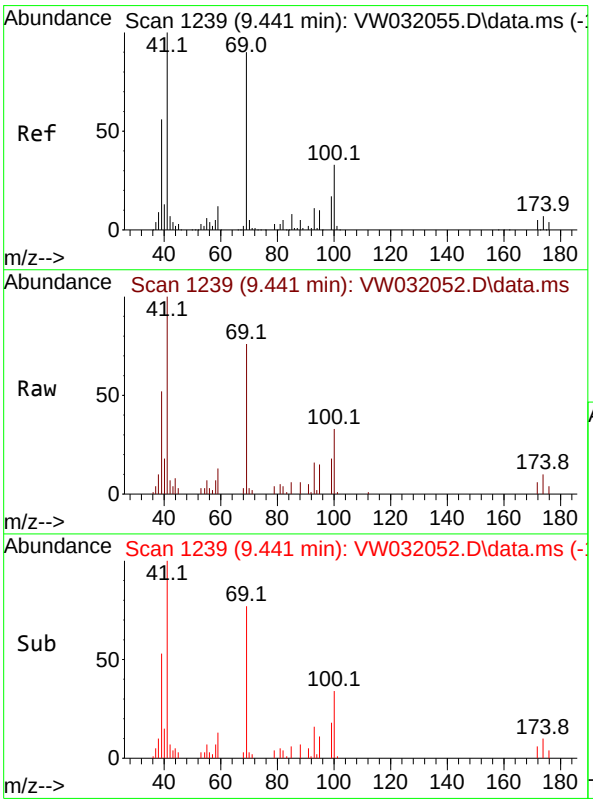

#47
Bromodichloromethane
Concen: 4.927 ug/l
RT: 9.648 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion: 83 Resp: 21279

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.3 | 50.6 | 75.8 |
| 127 | 7.8 | 6.9 | 10.3 |

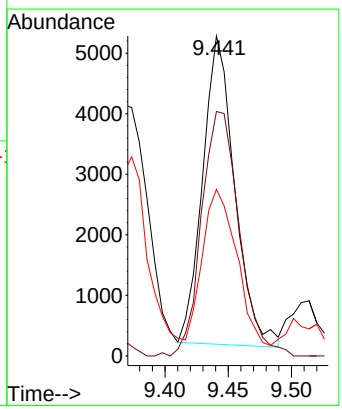


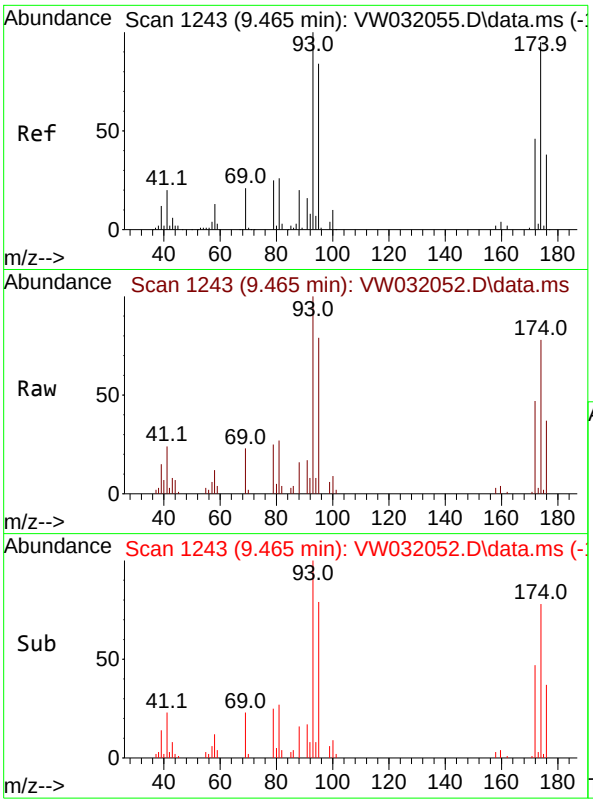




#48
Methyl methacrylate
Concen: 4.424 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 41 Resp: 8949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 93.4 | 73.0 | 109.6 |
| 39 | 53.4 | 45.0 | 67.4 |



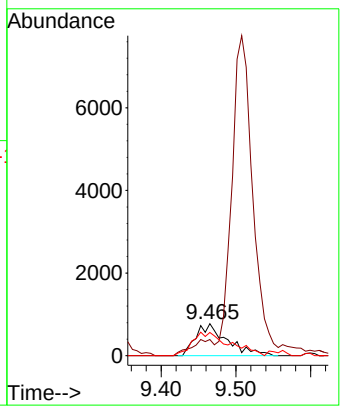


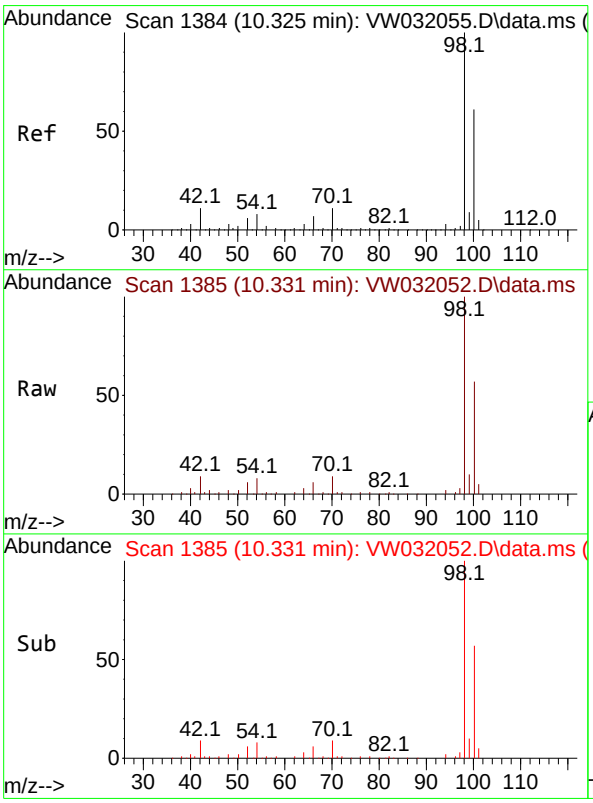

#49
1,4-Dioxane
Concen: 93.217 ug/l
RT: 9.465 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion: 88 Resp: 2259

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 35.9 | 20.6 | 30.8# |
| 58 | 87.2 | 60.4 | 90.6 |

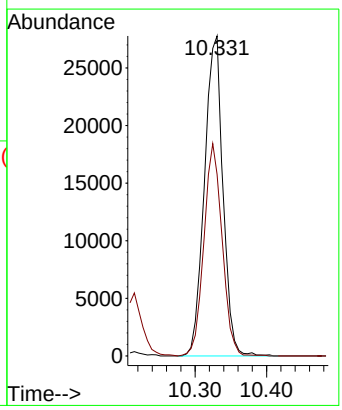


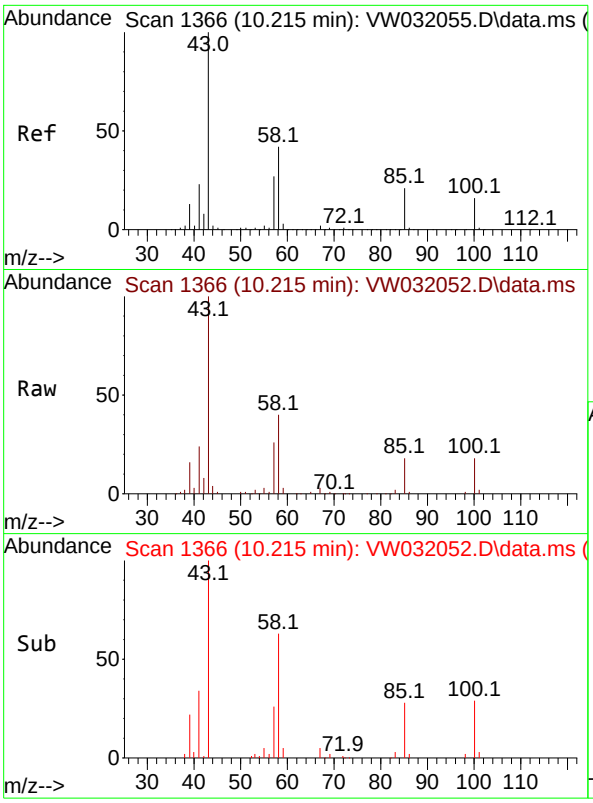




#50
Toluene-d8
Concen: 4.916 ug/l
RT: 10.331 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 98 Resp: 49876

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.4 | 51.1 | 76.7 |



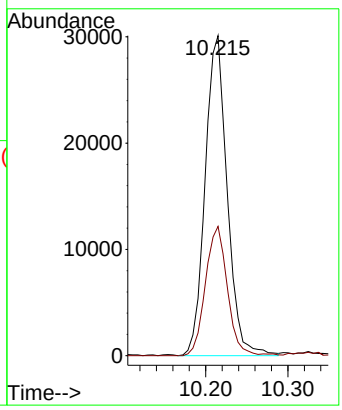


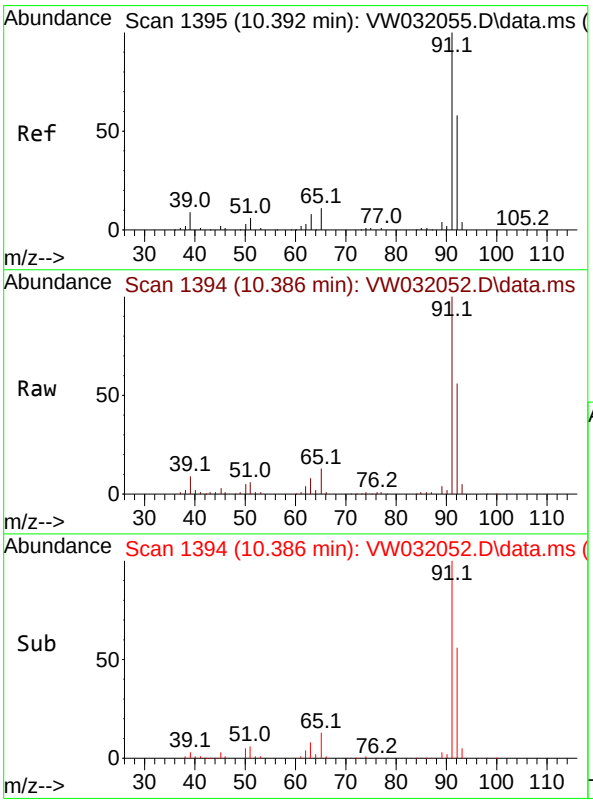

#51
4-Methyl-2-Pentanone
Concen: 23.755 ug/l
RT: 10.215 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion: 43 Resp: 56184

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 40.2 | 33.1 | 49.7 |

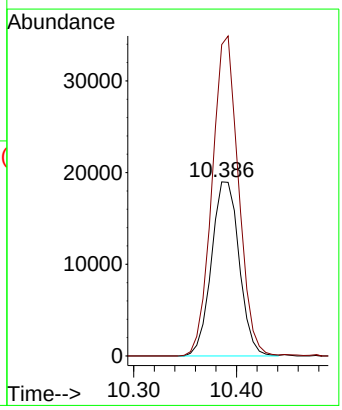


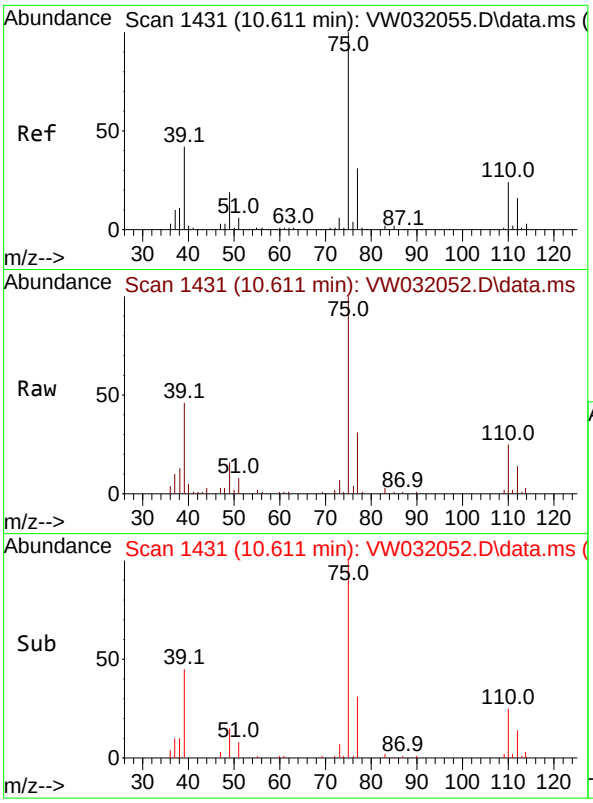




#52
Toluene
Concen: 4.692 ug/l
RT: 10.386 min Scan# 1394
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 92 Resp: 35525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 175.5 | 136.3 | 204.5 |



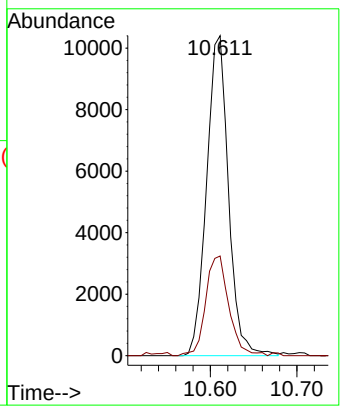


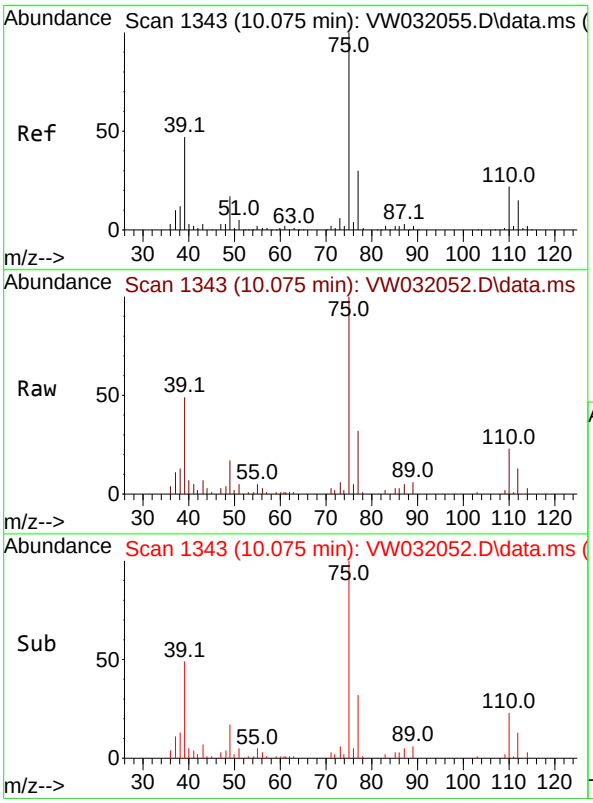

#53
t-1,3-Dichloropropene
Concen: 4.513 ug/l
RT: 10.611 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion: 75 Resp: 18259

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.2 | 25.0 | 37.6 |

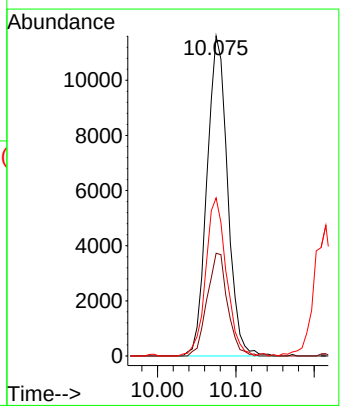


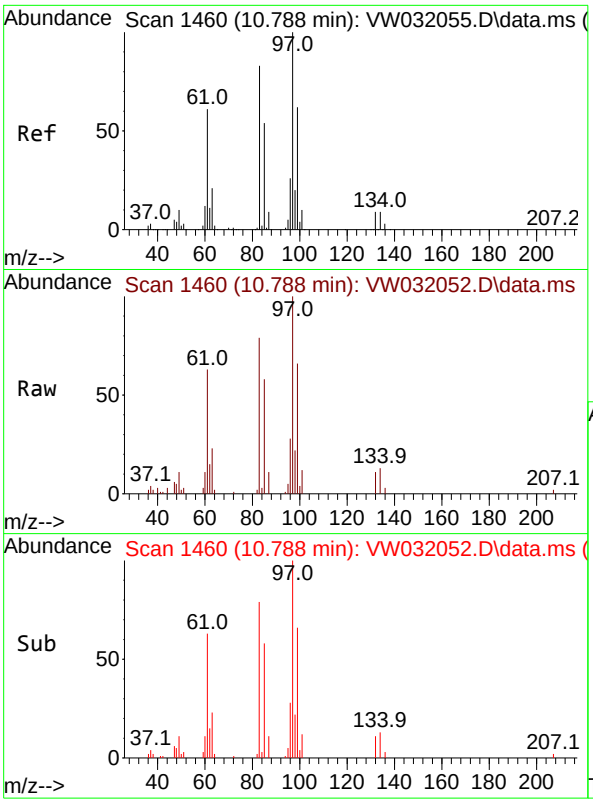




#54
cis-1,3-Dichloropropene
Concen: 4.612 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 75 Resp: 21173

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.1 | 24.0 | 36.0 |
| 39 | 49.4 | 37.8 | 56.8 |



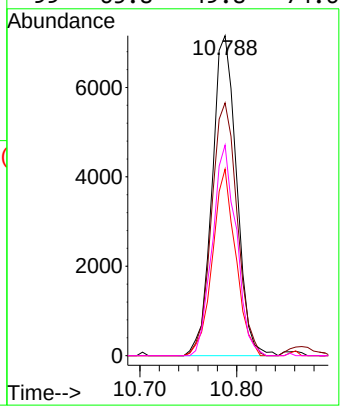


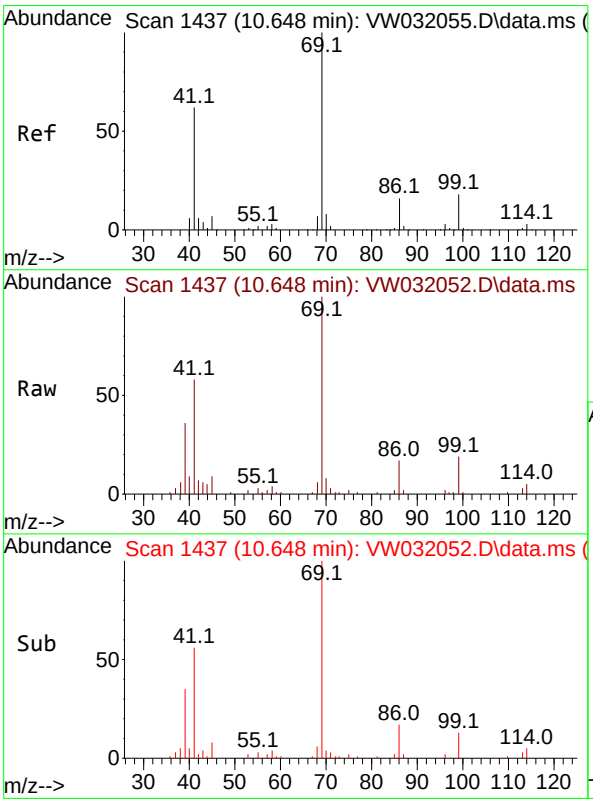

#55
1,1,2-Trichloroethane
Concen: 5.057 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion: 97 Resp: 12594

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 79.0 | 66.4 | 99.6 |
| 85 | 58.3 | 43.1 | 64.7 |
| 99 | 65.8 | 49.8 | 74.6 |

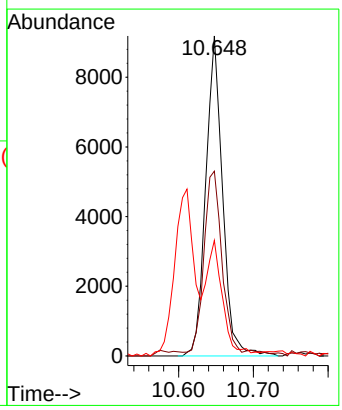


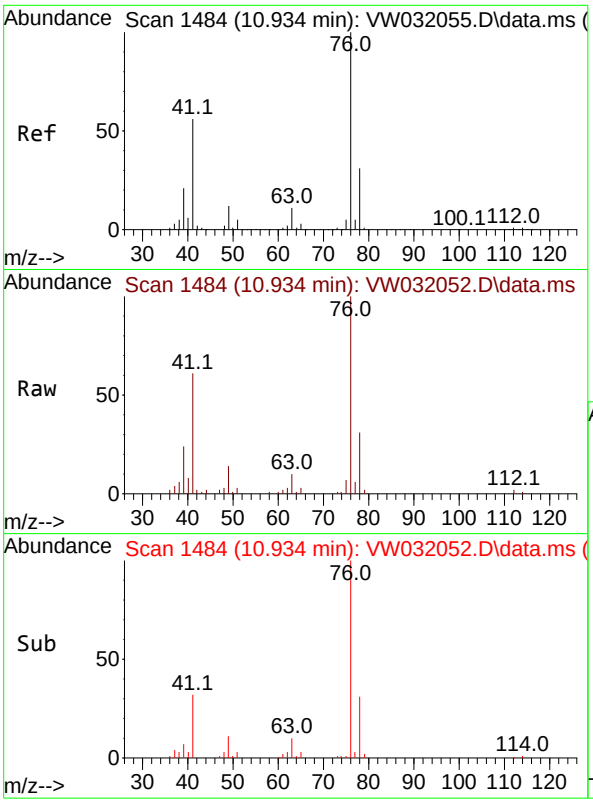




#56
Ethyl methacrylate
Concen: 4.317 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 69 Resp: 14387

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 59.2 | 51.2 | 76.8 |
| 39 | 32.8 | 25.4 | 38.0 |



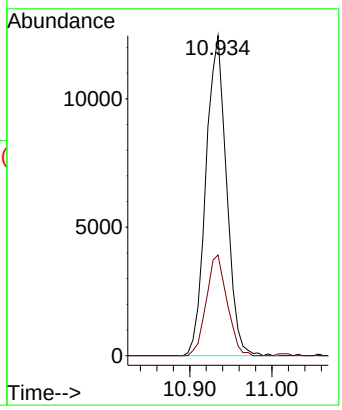


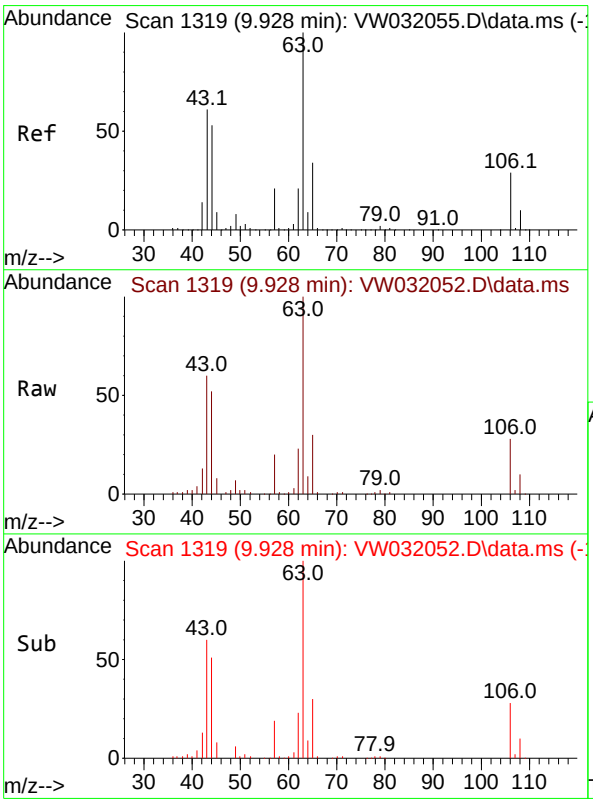

#57
1,3-Dichloropropane
Concen: 4.988 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion: 76 Resp: 21654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 31.8 | 25.8 | 38.6 |

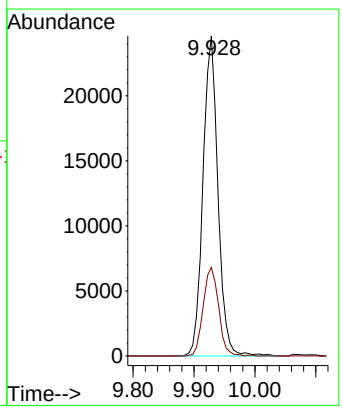


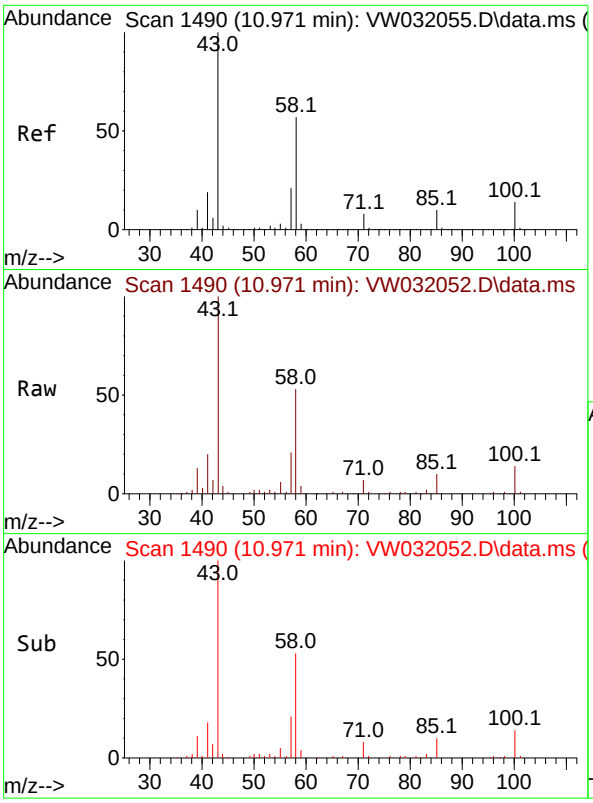




#58
2-Chloroethyl Vinyl ether
Concen: 22.777 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 63 Resp: 41991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 28.4 | 23.5 | 35.3 |



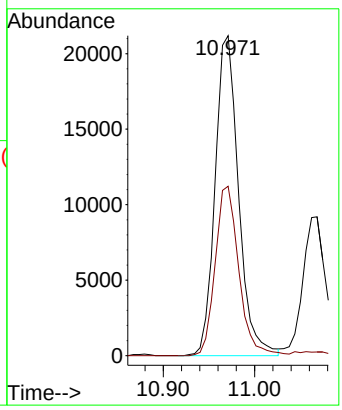


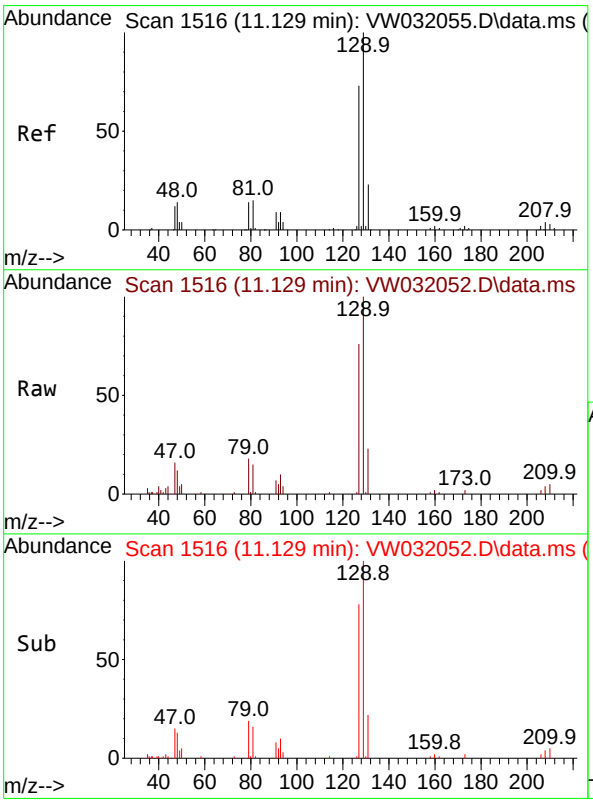

#59
2-Hexanone
Concen: 23.074 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion: 43 Resp: 37796

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 53.3 | 28.3 | 85.0 |

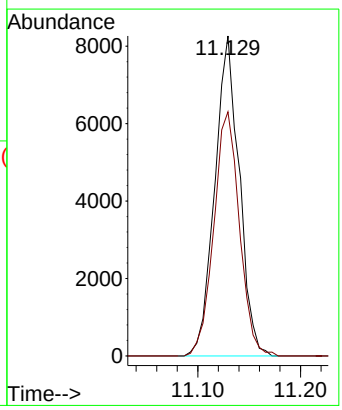


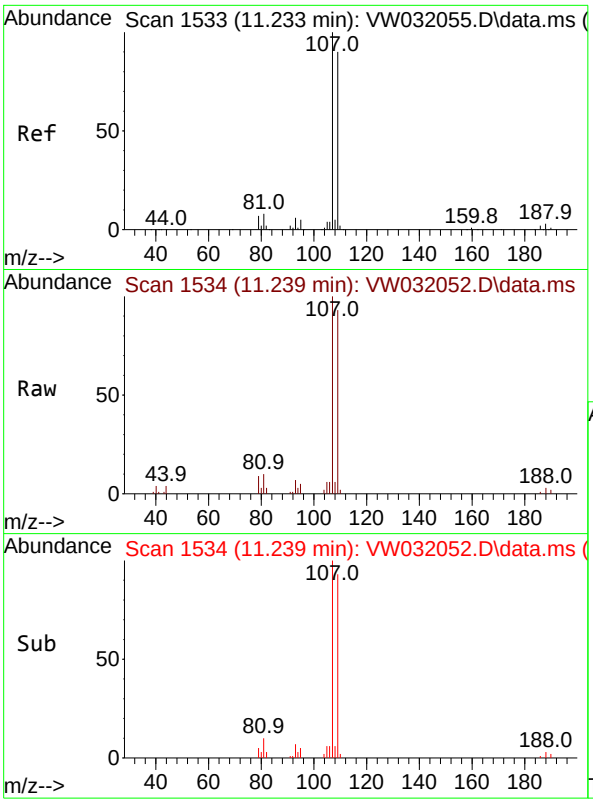




#60
Dibromochloromethane
Concen: 4.799 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:129 Resp: 13654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 79.8 | 39.0 | 116.9 |



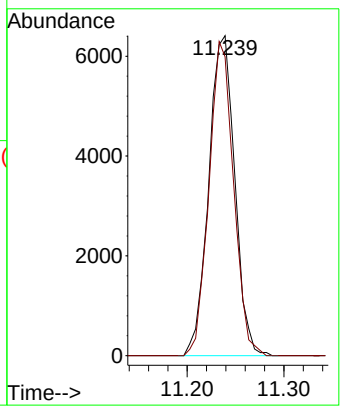


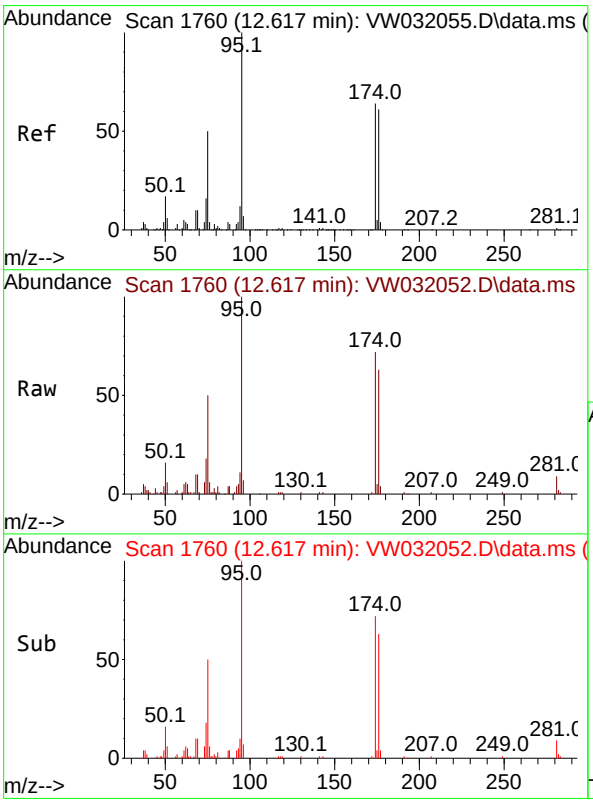

#61
1,2-Dibromoethane
Concen: 4.955 ug/l
RT: 11.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion:107 Resp: 11992

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 92.8 | 74.2 | 111.4 |

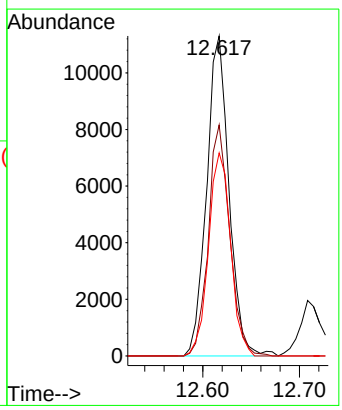


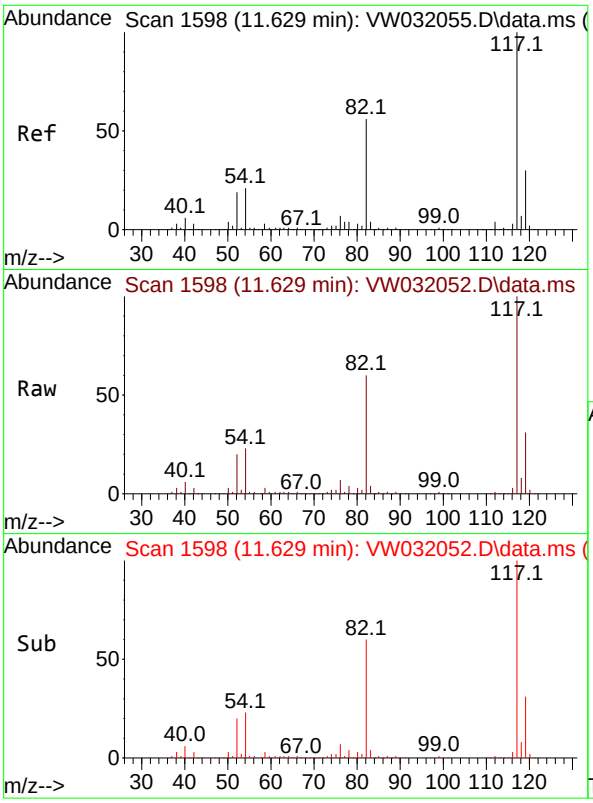




#62
4-Bromofluorobenzene
Concen: 4.863 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 95 Resp: 18184

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 69.1 | 0.0 | 129.0 |
| 176 | 62.7 | 0.0 | 124.6 |



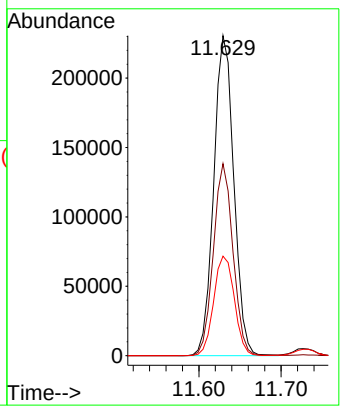


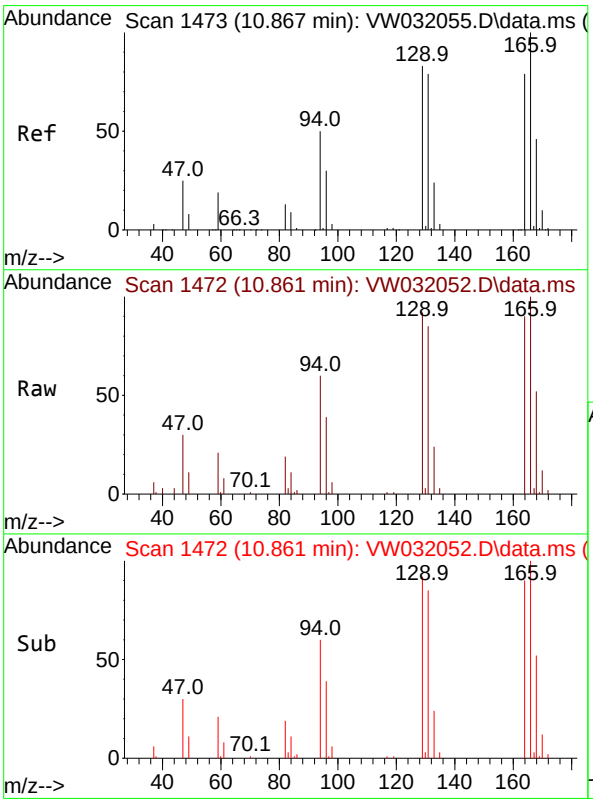

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion:117 Resp: 391234

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 60.0 | 45.0 | 67.4 |
| 119 | 31.1 | 24.2 | 36.4 |

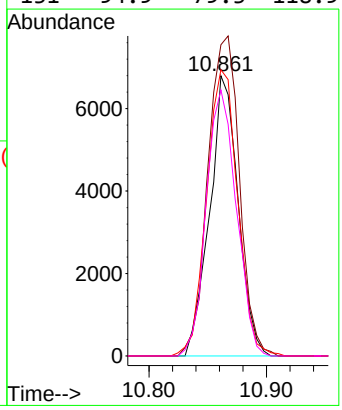


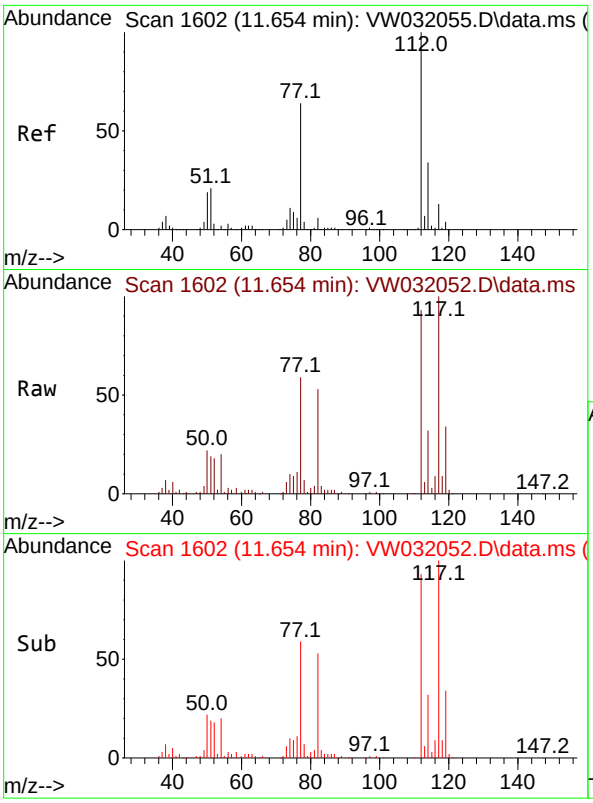




#64
Tetrachloroethene
Concen: 5.066 ug/l
RT: 10.861 min Scan# 1472
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:164 Resp: 11449

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 111.1 | 100.9 | 151.3 |
| 129 | 101.3 | 83.6 | 125.4 |
| 131 | 94.9 | 79.3 | 118.9 |



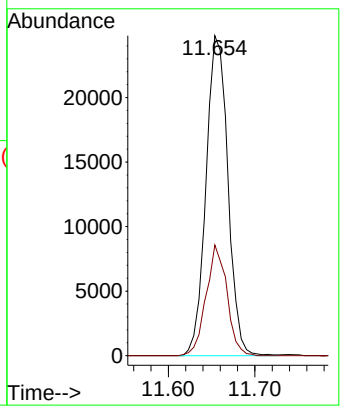


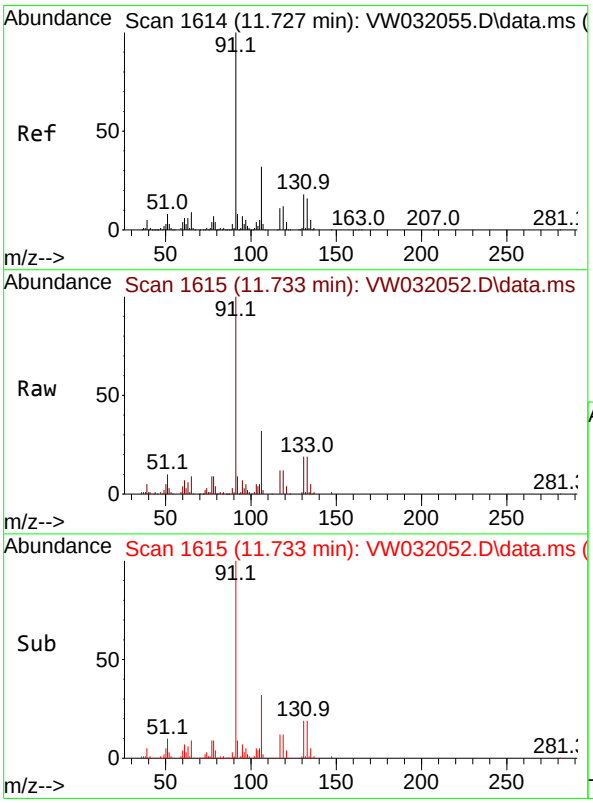

#65
Chlorobenzene
Concen: 5.110 ug/l
RT: 11.654 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion:112 Resp: 43515

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 34.6 | 26.9 | 40.3 |

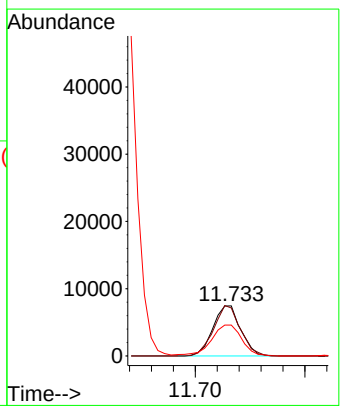


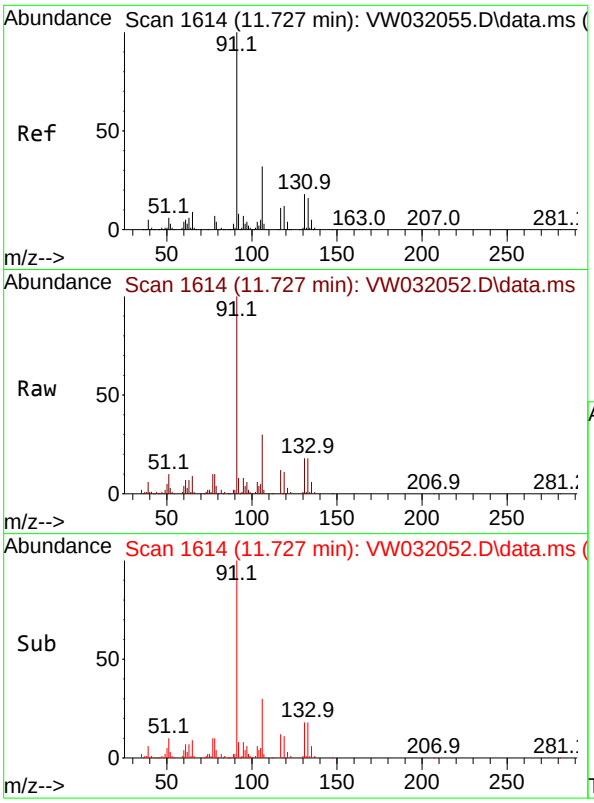




#66
1,1,1,2-Tetrachloroethane
Concen: 4.907 ug/l
RT: 11.733 min Scan# 1615
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:131 Resp: 13037

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 97.4 | 47.3 | 142.0 |
| 119 | 67.3 | 34.5 | 103.5 |



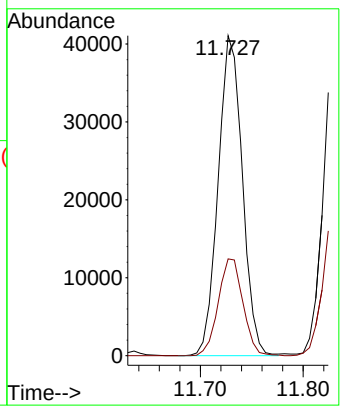


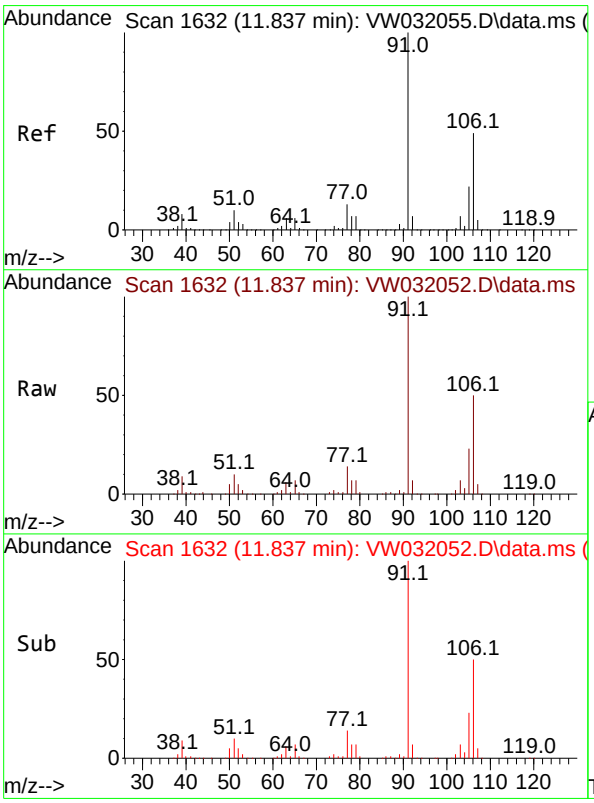

#67
Ethyl Benzene
Concen: 4.650 ug/l
RT: 11.727 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion: 91 Resp: 67071

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.2 | 25.4 | 38.0 |

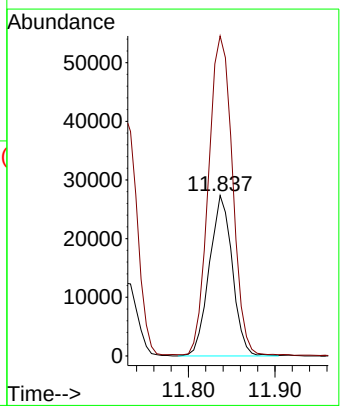


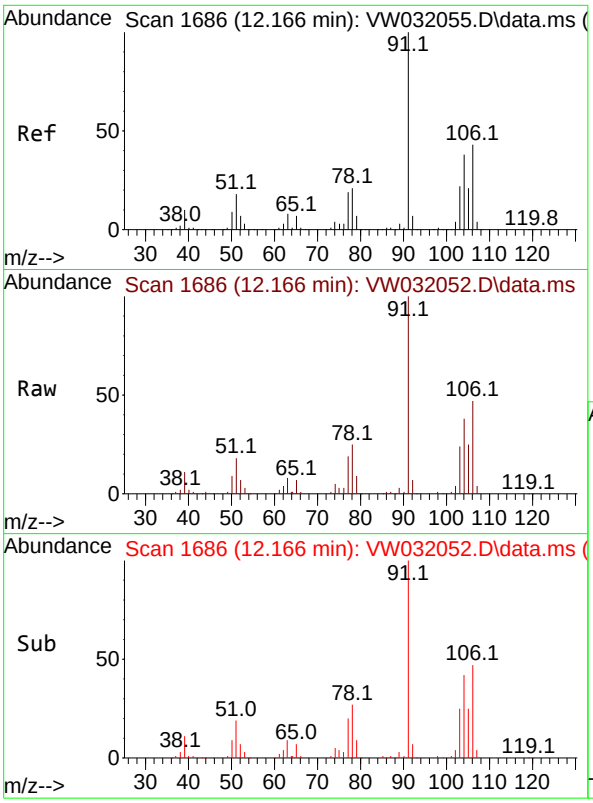




#68
m/p-Xylenes
Concen: 9.070 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:106 Resp: 50482

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 209.1 | 162.2 | 243.2 |



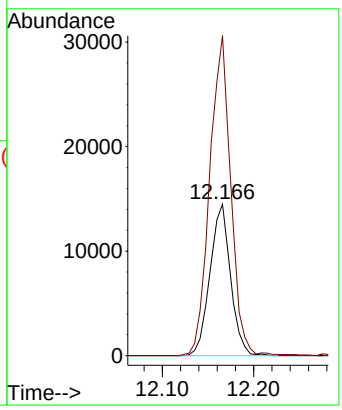


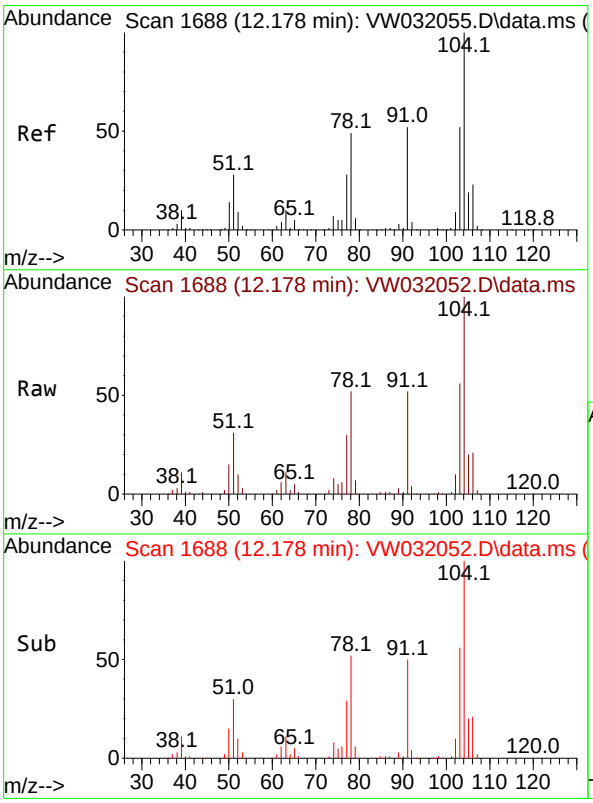

#69
o-Xylene
Concen: 4.393 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion:106 Resp: 22602

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 217.4 | 110.8 | 332.3 |

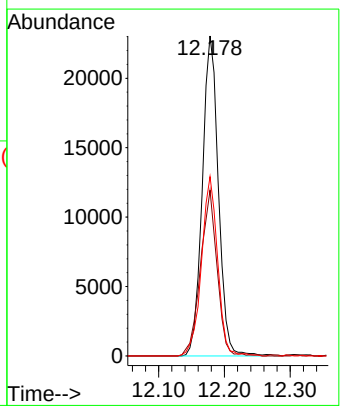


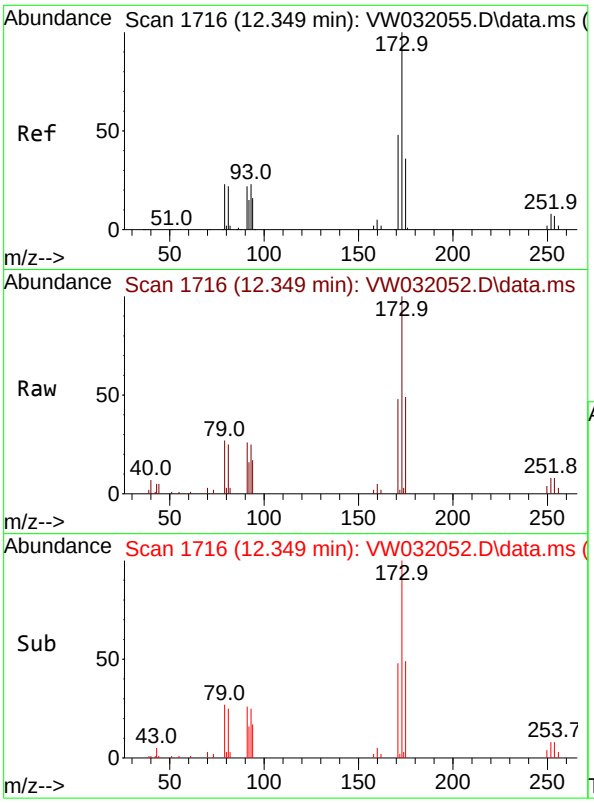




#70
Styrene
Concen: 4.300 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:104 Resp: 39288

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 53.3 | 41.2 | 61.8 |
| 103 | 56.1 | 43.8 | 65.8 |



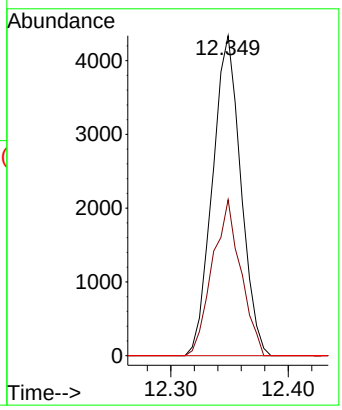


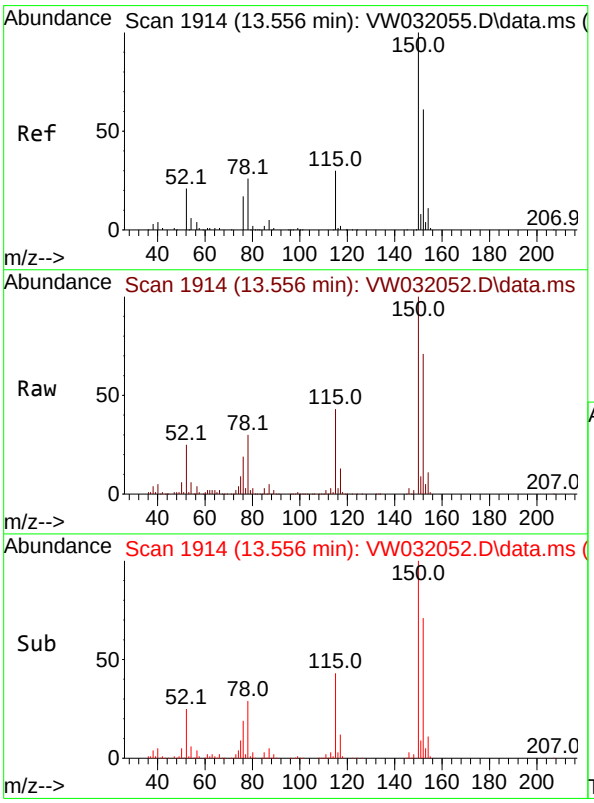

#71
Bromoform
Concen: 4.792 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion:173 Resp: 7283

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.9 | 22.9 | 68.7 |
| 254 | 0.0 | 0.0 | 0.0 |

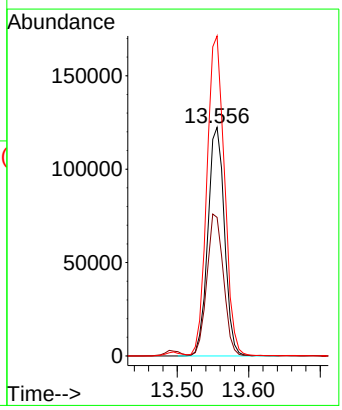


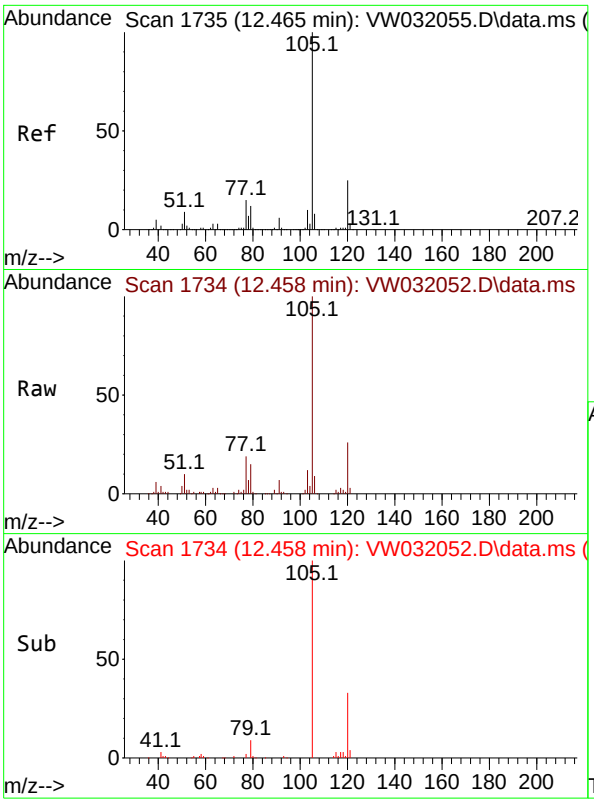




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:152 Resp: 196943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 62.0 | 32.6 | 97.8 |
| 150 | 147.8 | 0.0 | 359.4 |



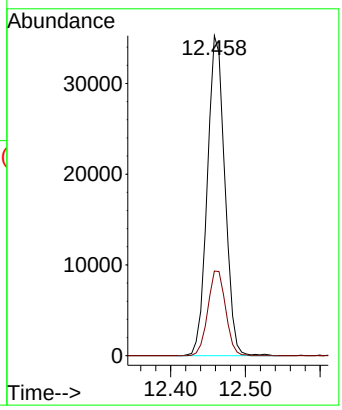


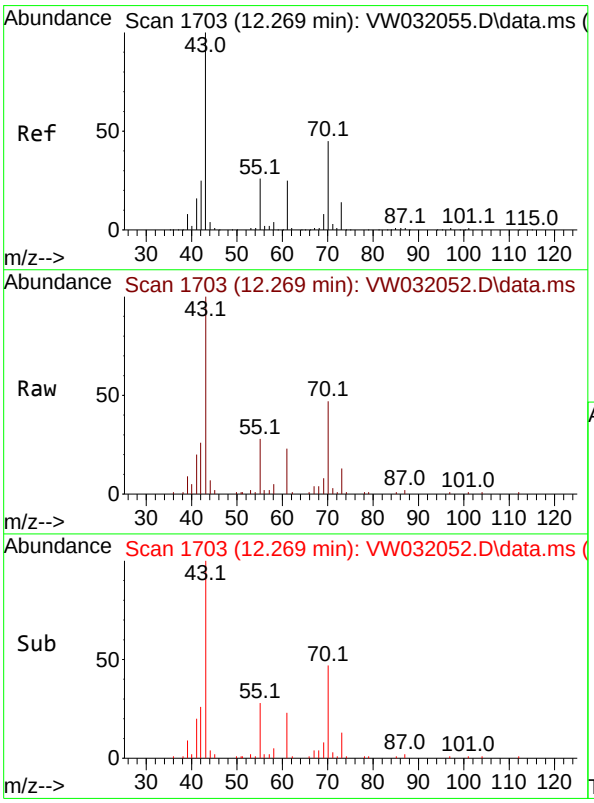

#73
Isopropylbenzene
Concen: 4.164 ug/l
RT: 12.458 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion:105 Resp: 57306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.8 | 12.8 | 38.4 |

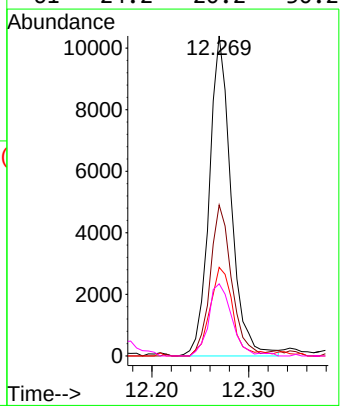


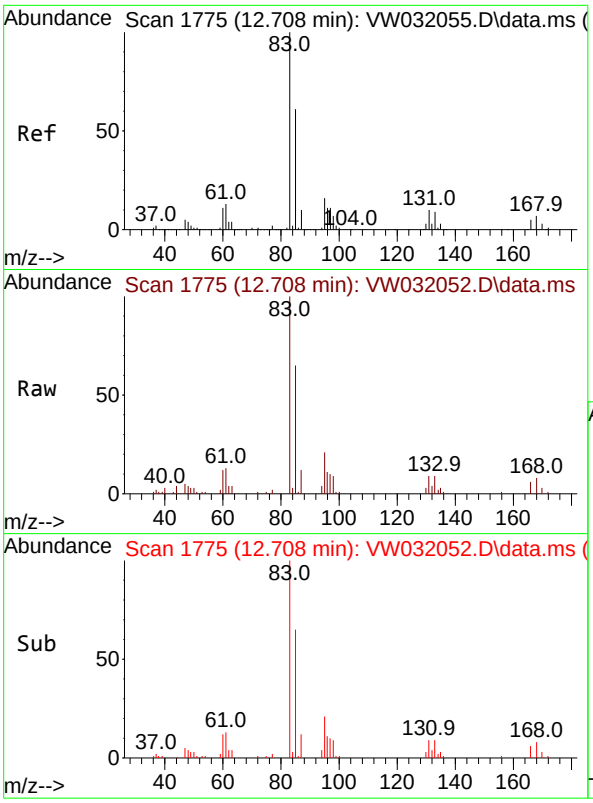




#74
N-amyl acetate
Concen: 4.135 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 43 Resp: 16327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 45.9 | 37.0 | 55.4 |
| 55 | 28.8 | 21.1 | 31.7 |
| 61 | 24.2 | 20.2 | 30.2 |



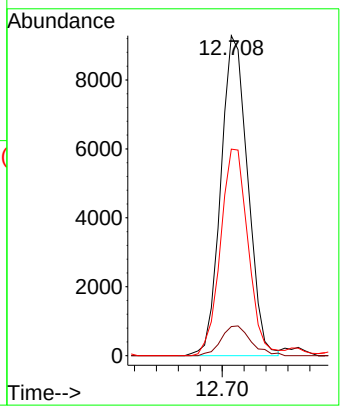


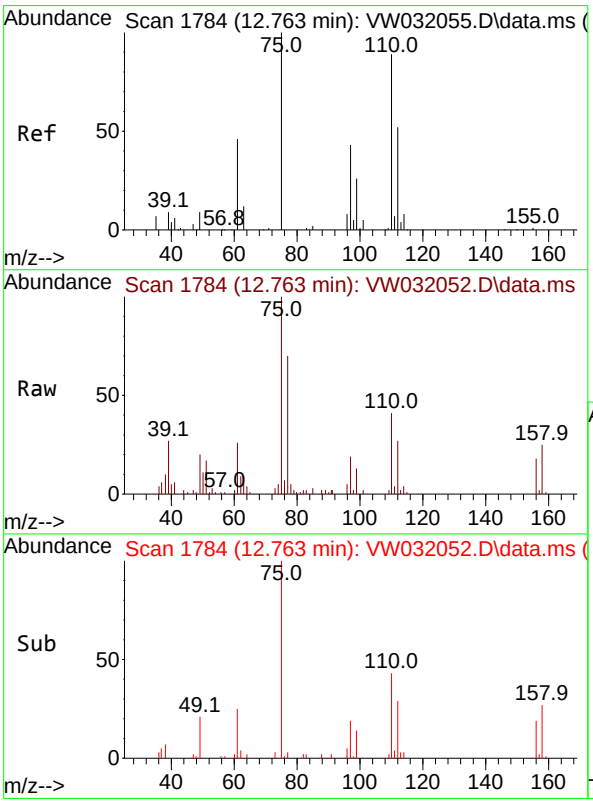

#75
1,1,2,2-Tetrachloroethane
Concen: 4.836 ug/l
RT: 12.708 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion: 83 Resp: 15805

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.3 | 5.1 | 15.4 |
| 85 | 66.7 | 32.2 | 96.6 |

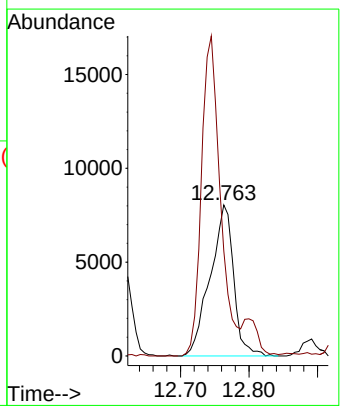


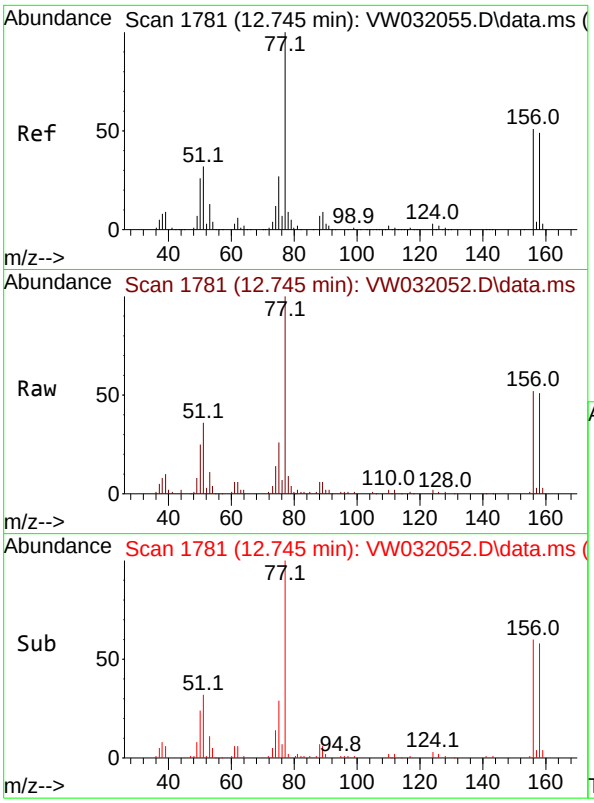




#76
1,2,3-Trichloropropane
Concen: 6.318 ug/l
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 75 Resp: 19129

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 172.4 | 123.5 | 370.5 |



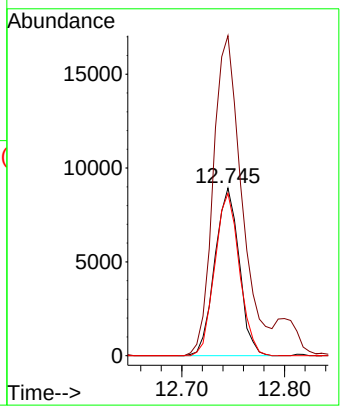


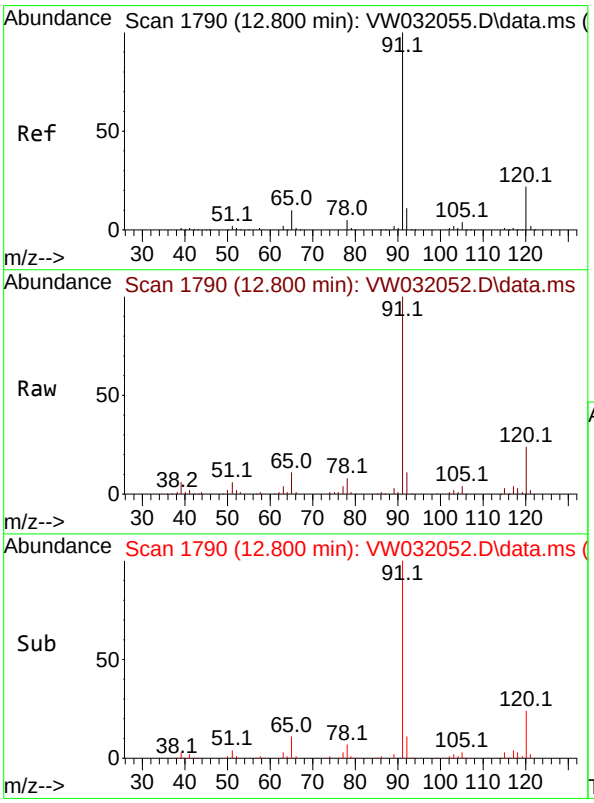

#77
Bromobenzene
Concen: 4.471 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion:156 Resp: 14698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 224.3 | 108.7 | 326.3 |
| 158 | 97.7 | 48.3 | 144.9 |

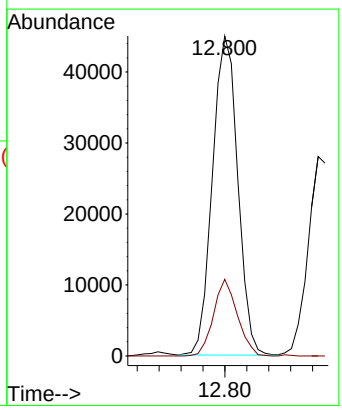


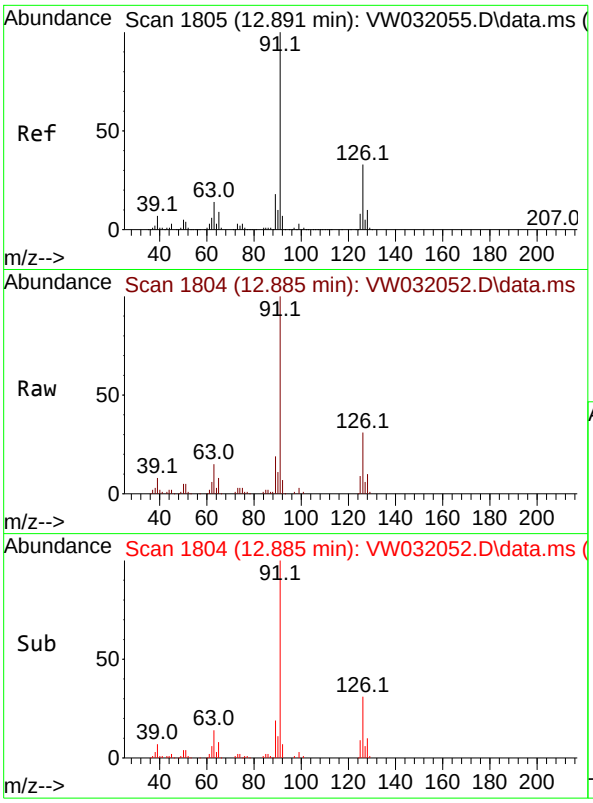




#78
n-propylbenzene
Concen: 4.257 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 91 Resp: 72140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.6 | 11.1 | 33.3 |



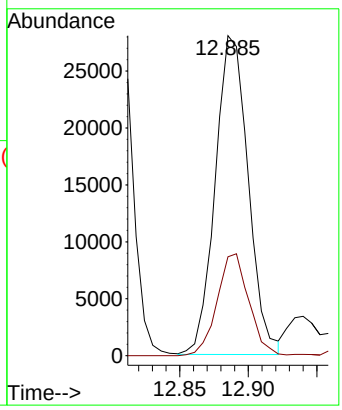


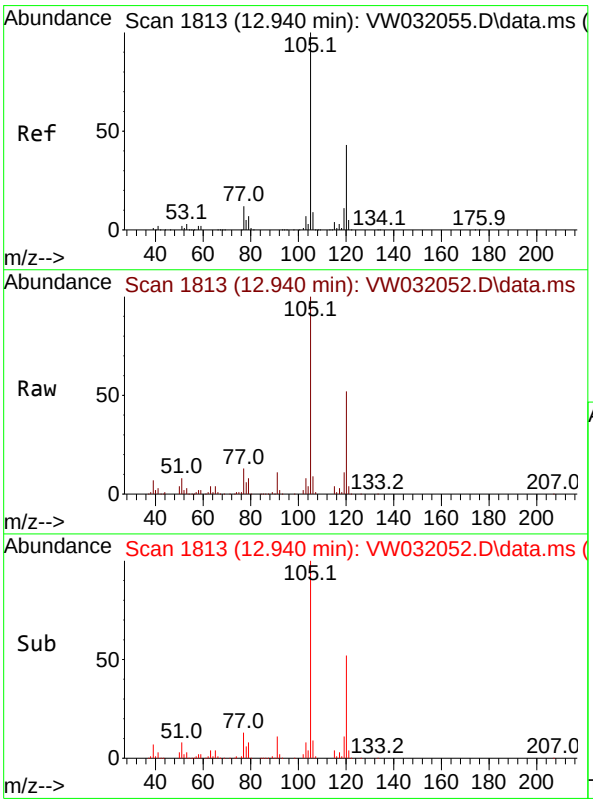

#79
2-Chlorotoluene
Concen: 4.483 ug/l
RT: 12.885 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion: 91 Resp: 46879

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 30.8 | 15.9 | 47.7 |

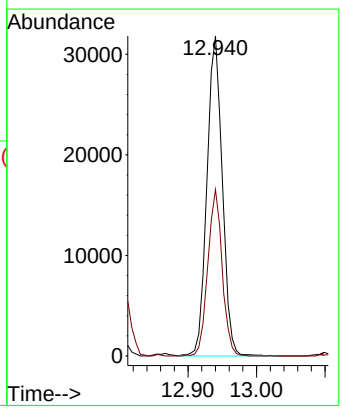


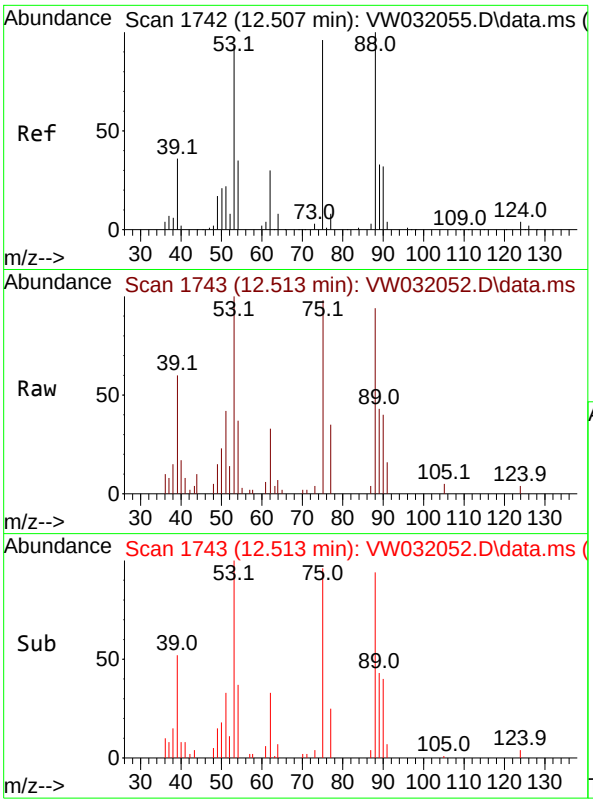




#80
1,3,5-Trimethylbenzene
Concen: 4.245 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:105 Resp: 49607

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.6 | 23.4 | 70.0 |



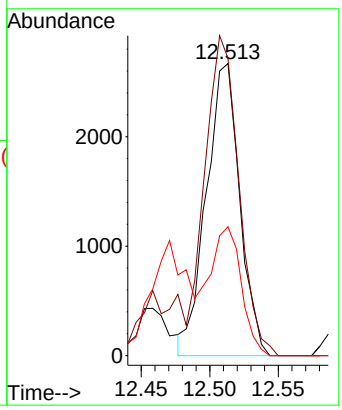


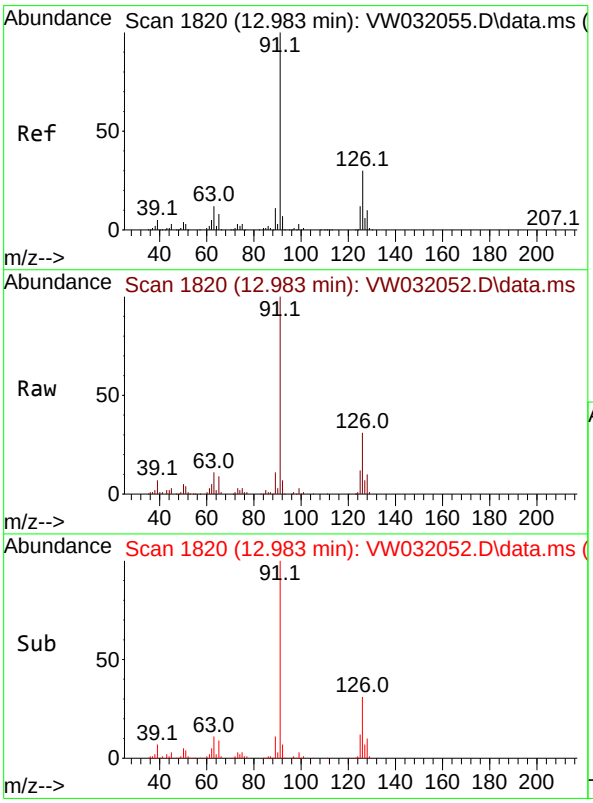

#81
trans-1,4-Dichloro-2-butene
Concen: 4.378 ug/l
RT: 12.513 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion: 75 Resp: 4520

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 110.7 | 81.0 | 121.6 |
| 89 | 43.0 | 37.3 | 55.9 |

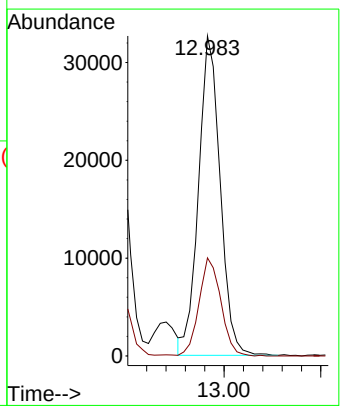


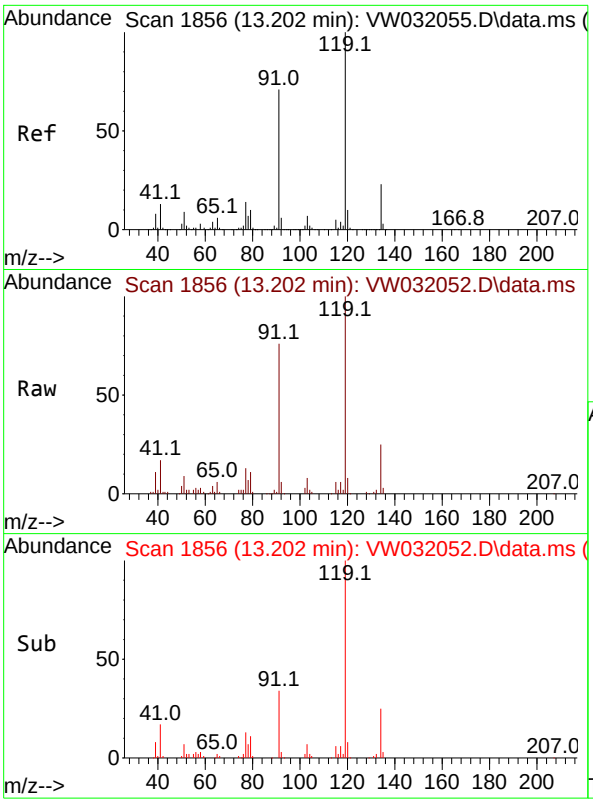




#82
4-Chlorotoluene
Concen: 4.570 ug/l
RT: 12.983 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 91 Resp: 50782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.1 | 15.5 | 46.5 |



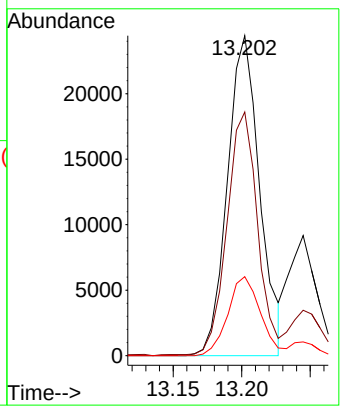


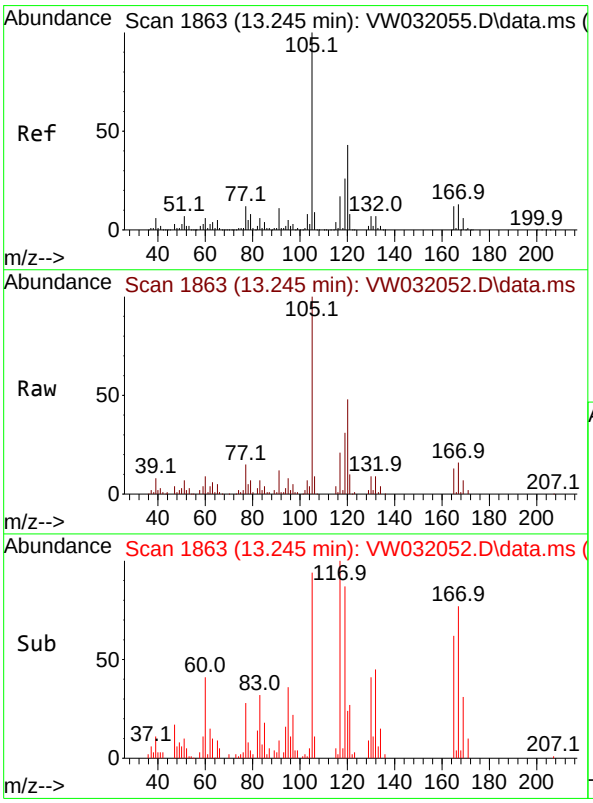

#83
tert-Butylbenzene
Concen: 4.124 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion:119 Resp: 39993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 72.6 | 35.3 | 105.9 |
| 134 | 25.1 | 12.1 | 36.3 |

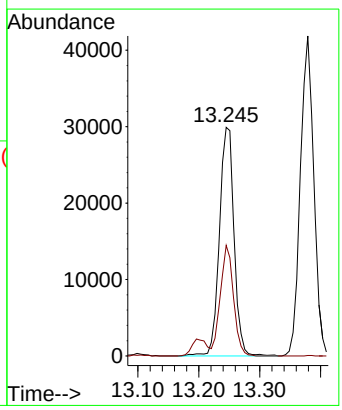


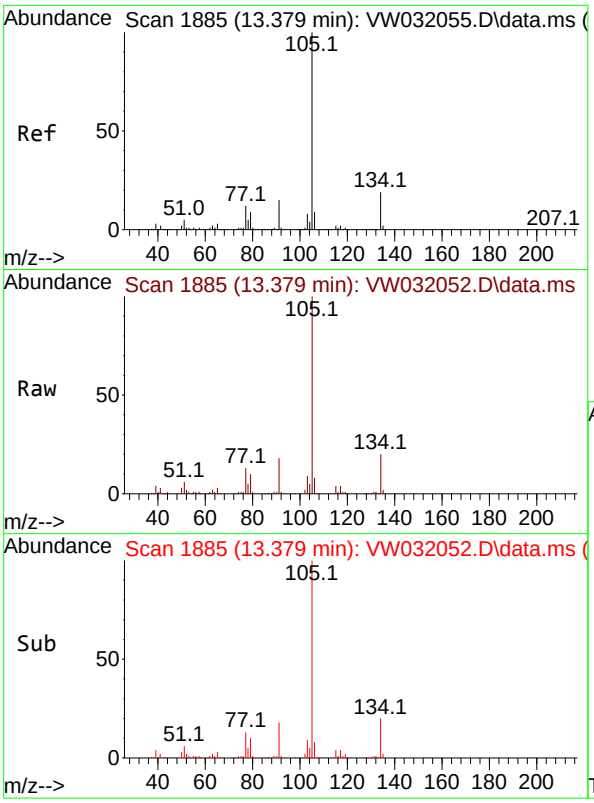




#84
1,2,4-Trimethylbenzene
Concen: 4.194 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:105 Resp: 49891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.4 | 21.6 | 64.8 |



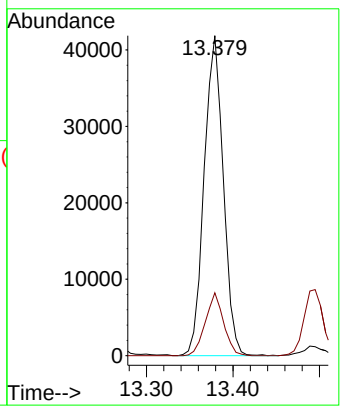


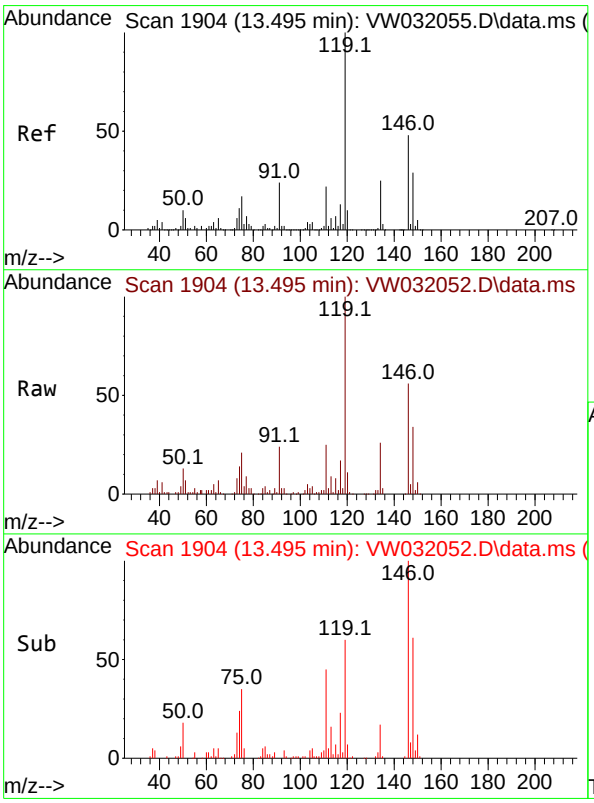

#85
sec-Butylbenzene
Concen: 4.382 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion:105 Resp: 64254

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 18.7 | 9.9 | 29.7 |

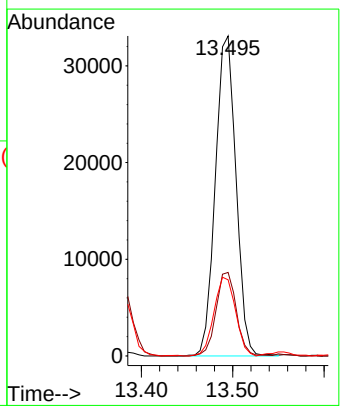


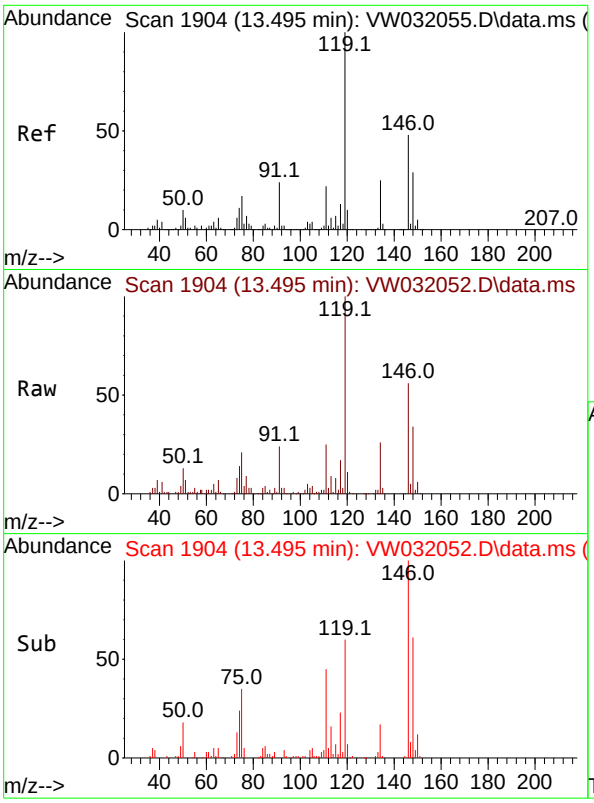




#86
p-Isopropyltoluene
Concen: 4.249 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:119 Resp: 51939

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.8 | 12.4 | 37.0 |
| 91 | 25.7 | 12.1 | 36.3 |



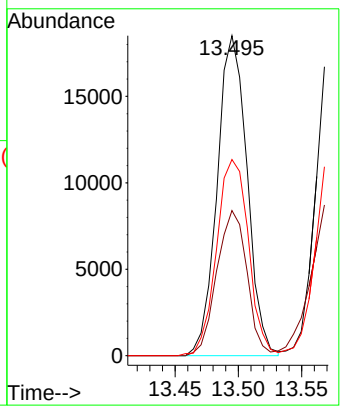


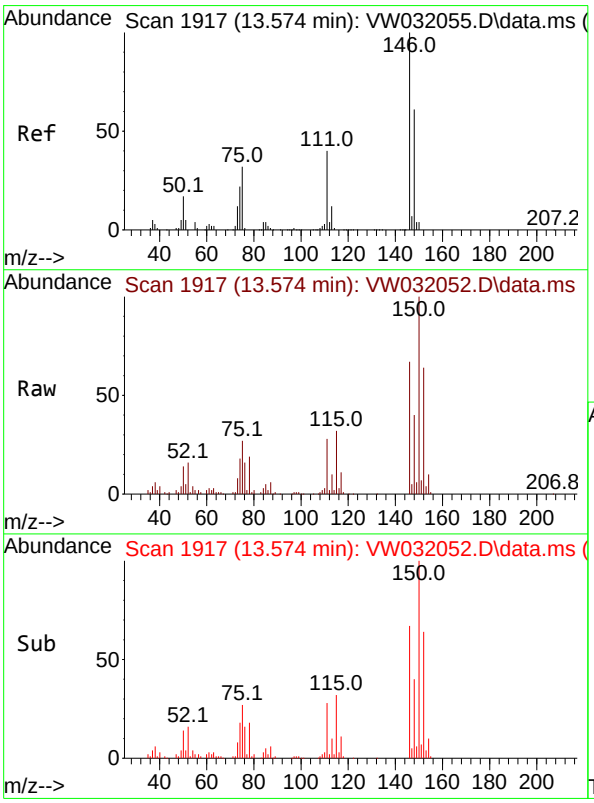

#87
1,3-Dichlorobenzene
Concen: 4.654 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion:146 Resp: 30445

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.7 | 21.2 | 63.6 |
| 148 | 65.5 | 30.3 | 90.8 |

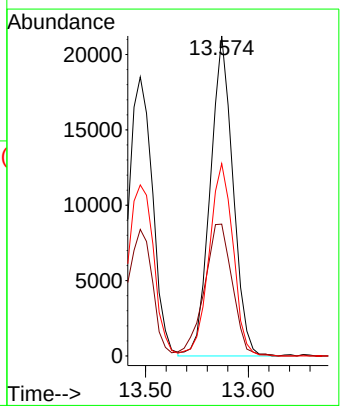


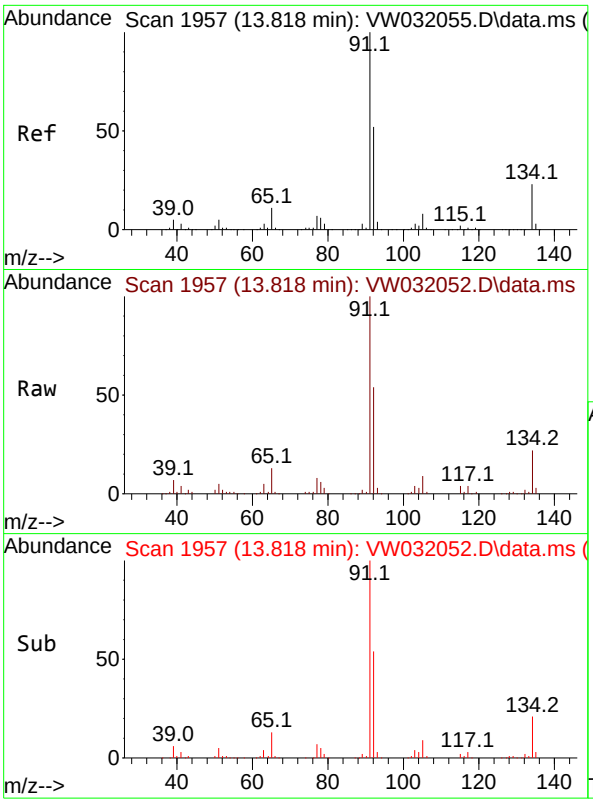




#88
1,4-Dichlorobenzene
Concen: 4.925 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:146 Resp: 32554

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 51.0 | 21.6 | 64.6 |
| 148 | 63.5 | 32.0 | 96.2 |



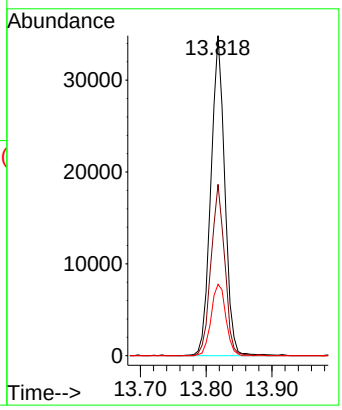


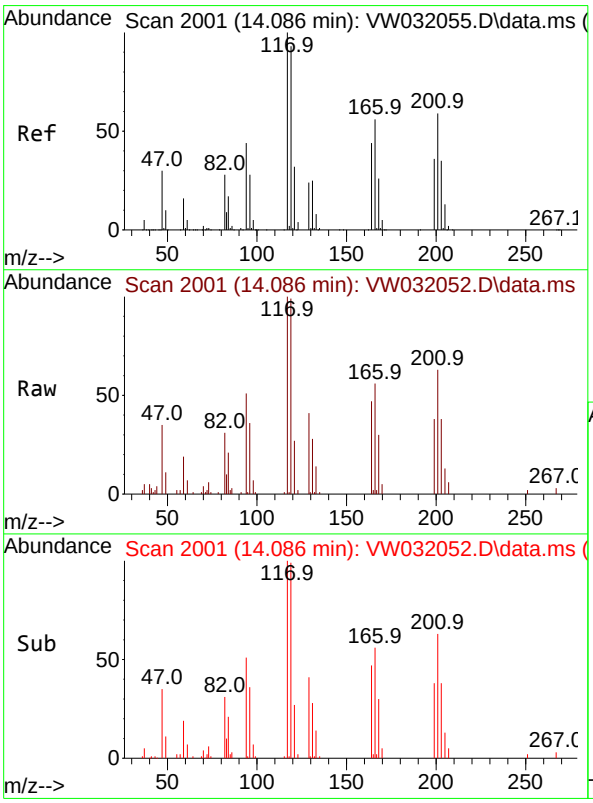

#89
n-Butylbenzene
Concen: 4.323 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion: 91 Resp: 51328

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.6 | 26.7 | 80.1 |
| 134 | 23.5 | 12.0 | 36.1 |

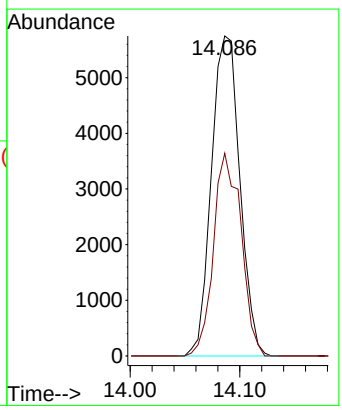


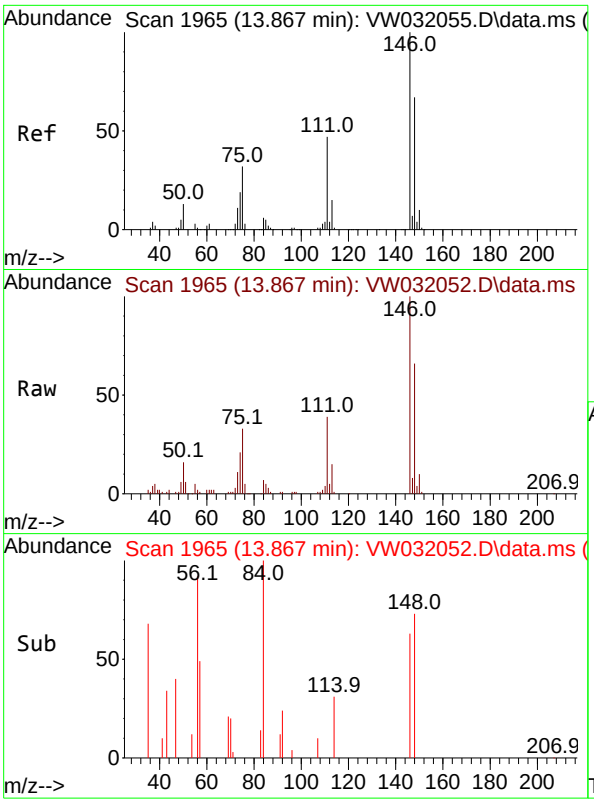




#90
Hexachloroethane
Concen: 4.640 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:117 Resp: 10372

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 61.2 | 30.9 | 92.5 |



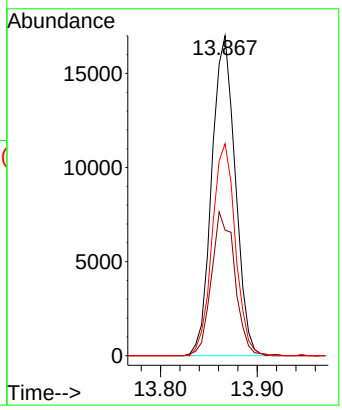


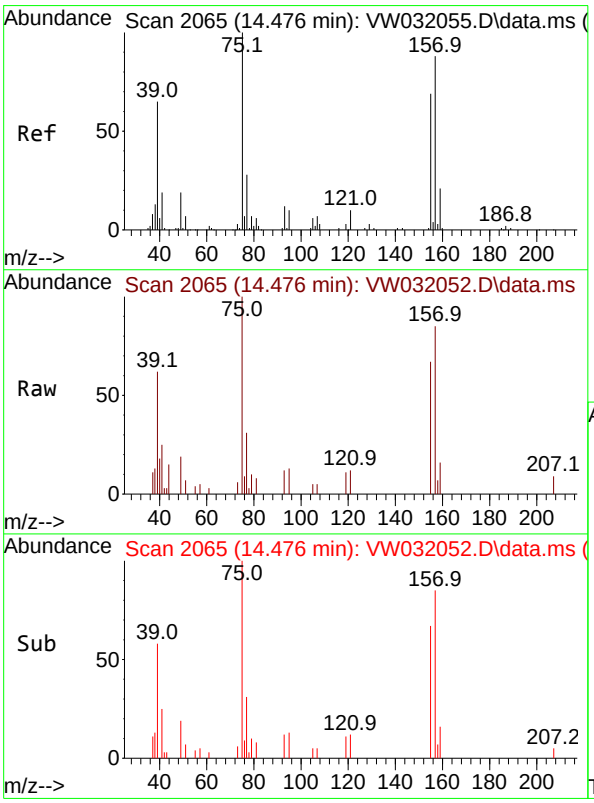

#91
1,2-Dichlorobenzene
Concen: 4.836 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion:146 Resp: 28653

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.7 | 23.1 | 69.3 |
| 148 | 65.7 | 32.9 | 98.6 |

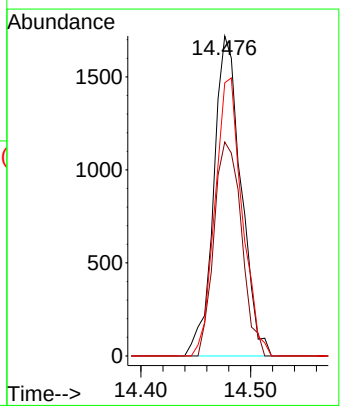


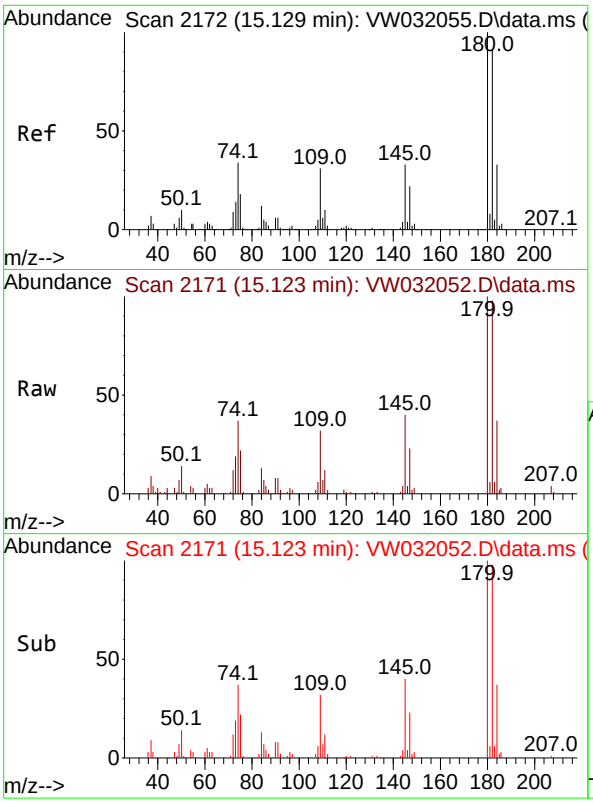




#92
1,2-Dibromo-3-Chloropropane
Concen: 5.123 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion: 75 Resp: 2976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 67.4 | 35.2 | 105.6 |
| 157 | 86.2 | 47.5 | 142.6 |



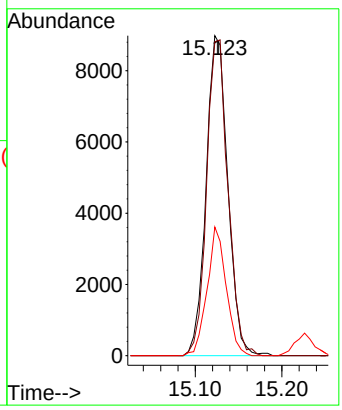


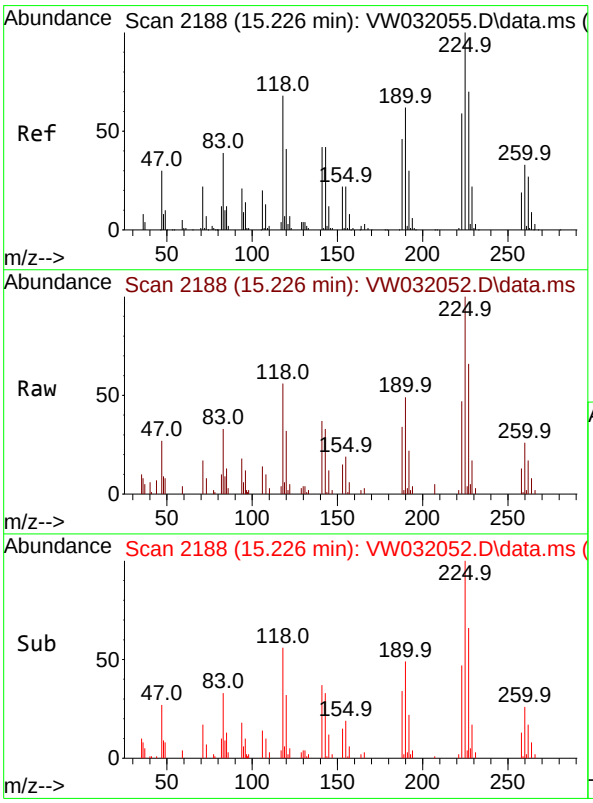

#93
1,2,4-Trichlorobenzene
Concen: 4.414 ug/l
RT: 15.123 min Scan# 21
Delta R.T. -0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion:180 Resp: 15646

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.8 | 49.0 | 147.0 |
| 145 | 35.4 | 17.3 | 51.9 |

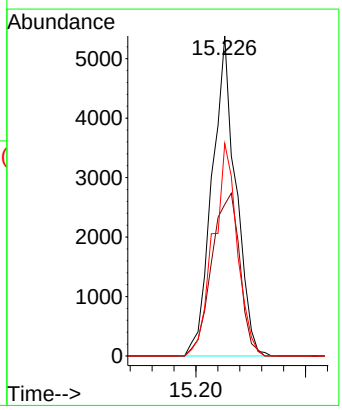


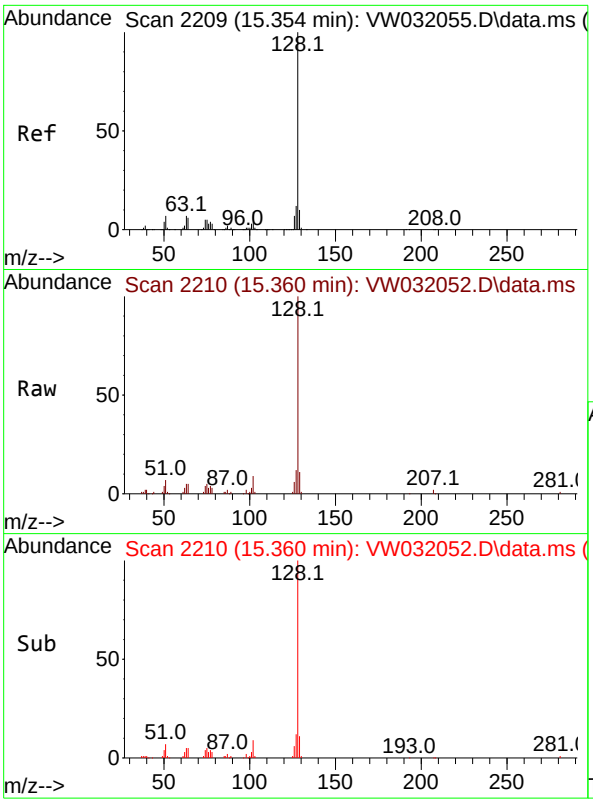




#94
Hexachlorobutadiene
Concen: 5.118 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:225 Resp: 8109

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 60.1 | 31.8 | 95.3 |
| 227 | 66.8 | 33.5 | 100.5 |



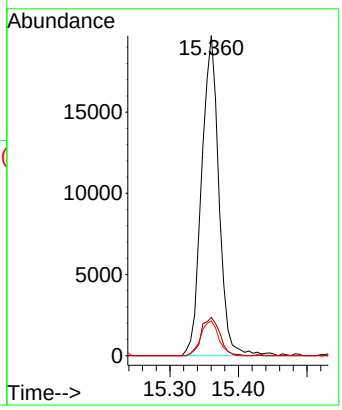


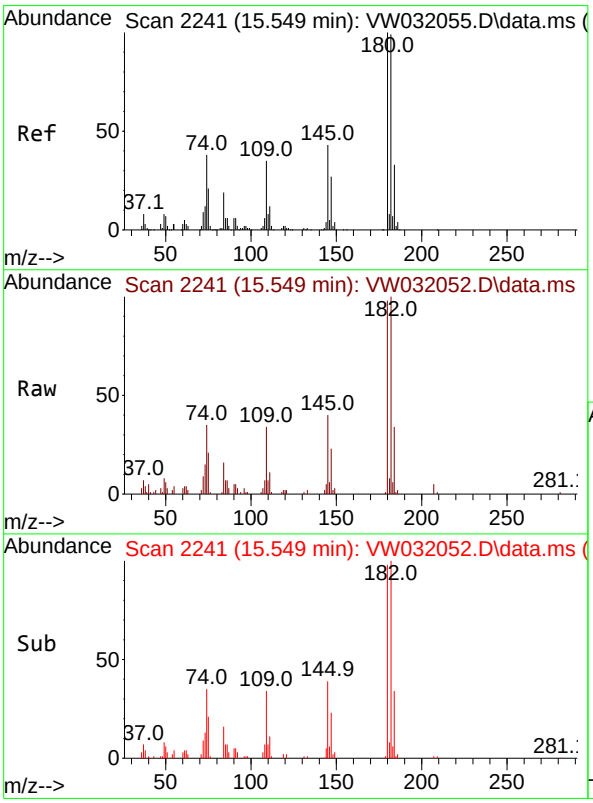

#95
Naphthalene
Concen: 3.991 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC005

Tgt Ion:128 Resp: 34667

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.9 | 10.5 | 15.7 |
| 129 | 11.2 | 8.2 | 12.4 |

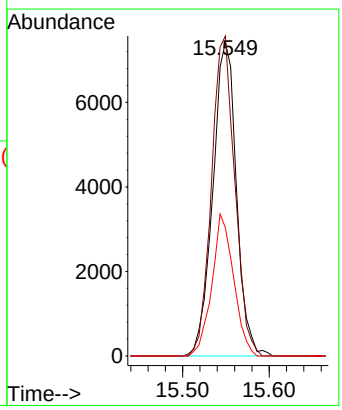



#96
1,2,3-Trichlorobenzene
Concen: 4.357 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. -0.000 min
Lab File: VW032052.D
Acq: 11 Aug 2025 08:25

Tgt Ion:180 Resp: 14053

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 100.4 | 46.0 | 138.0 |
| 145 | 41.7 | 19.2 | 57.6 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032053.D
Acq On : 11 Aug 2025 09:09
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Quant Time: Aug 12 03:37:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.959 | 168 | 225221 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.849 | 114 | 426784 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.629 | 117 | 385631 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.556 | 152 | 181281 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.319 | 65 | 33671 | 10.337 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 63 - 155 | | Recovery = | 20.680%# | | |
| 35) Dibromofluoromethane | 7.904 | 113 | 27978 | 10.147 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 70 - 134 | | Recovery = | 20.300%# | | |
| 50) Toluene-d8 | 10.331 | 98 | 100702 | 9.875 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 123 | | Recovery = | 19.740%# | | |
| 62) 4-Bromofluorobenzene | 12.617 | 95 | 36748 | 9.778 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 17 - 146 | | Recovery = | 19.560% | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.039 | 85 | 17258 | 10.714 | ug/l | 99 |
| 3) Chloromethane | 2.253 | 50 | 21693 | 9.998 | ug/l | 91 |
| 4) Vinyl Chloride | 2.405 | 62 | 27978 | 10.660 | ug/l | 92 |
| 5) Bromomethane | 2.826 | 94 | 20345 | 10.332 | ug/l | 93 |
| 6) Chloroethane | 2.966 | 64 | 17509 | 10.081 | ug/l | 98 |
| 7) Trichlorofluoromethane | 3.301 | 101 | 19623 | 9.333 | ug/l | 99 |
| 8) Diethyl Ether | 3.716 | 74 | 17227 | 10.000 | ug/l | 95 |
| 9) 1,1,2-Trichlorotrifluo... | 4.100 | 101 | 25491 | 10.276 | ug/l | 99 |
| 10) Methyl Iodide | 4.301 | 142 | 35515 | 10.098 | ug/l | 98 |
| 11) Tert butyl alcohol | 5.228 | 59 | 10754 | 50.985 | ug/l | 98 |
| 12) 1,1-Dichloroethene | 4.082 | 96 | 27944 | 10.231 | ug/l | 99 |
| 13) Acrolein | 3.929 | 56 | 18650 | 55.493 | ug/l | 94 |
| 14) Allyl chloride | 4.704 | 41 | 39114 | 9.839 | ug/l | 100 |
| 15) Acrylonitrile | 5.405 | 53 | 42536 | 51.842 | ug/l | 100 |
| 16) Acetone | 4.161 | 43 | 40816 | 54.122 | ug/l | 99 |
| 17) Carbon Disulfide | 4.423 | 76 | 72806 | 9.931 | ug/l | 97 |
| 18) Methyl Acetate | 4.716 | 43 | 27191 | 11.394 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.460 | 73 | 47872 | 9.947 | ug/l | 97 |
| 20) Methylene Chloride | 4.960 | 84 | 35462 | 10.170 | ug/l | 95 |
| 21) trans-1,2-Dichloroethene | 5.454 | 96 | 28875 | 9.962 | ug/l | 93 |
| 22) Diisopropyl ether | 6.344 | 45 | 84045 | 10.029 | ug/l | 97 |
| 23) Vinyl Acetate | 6.283 | 43 | 259050 | 47.081 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 6.240 | 63 | 54051 | 10.095 | ug/l | 98 |
| 25) 2-Butanone | 7.197 | 43 | 54327 | 50.685 | ug/l | 98 |
| 26) 2,2-Dichloropropane | 7.185 | 77 | 27463 | 10.224 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 7.191 | 96 | 33173 | 9.791 | ug/l | 99 |
| 28) Bromochloromethane | 7.532 | 49 | 24412 | 10.019 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.557 | 42 | 35909 | 50.800 | ug/l | 99 |
| 30) Chloroform | 7.697 | 83 | 57170 | 10.071 | ug/l | 99 |
| 31) Cyclohexane | 7.971 | 56 | 48633 | 10.477 | ug/l # | 95 |
| 32) 1,1,1-Trichloroethane | 7.886 | 97 | 42747 | 10.368 | ug/l | 97 |
| 36) 1,1-Dichloropropene | 8.093 | 75 | 38994 | 10.032 | ug/l | 99 |
| 37) Ethyl Acetate | 7.276 | 43 | 23053 | 10.070 | ug/l | 96 |
| 38) Carbon Tetrachloride | 8.081 | 117 | 37535 | 10.007 | ug/l | 91 |
| 39) Methylcyclohexane | 9.343 | 83 | 46100 | 9.731 | ug/l | 96 |
| 40) Benzene | 8.337 | 78 | 121462 | 10.053 | ug/l | 95 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032053.D
Acq On : 11 Aug 2025 09:09
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Quant Time: Aug 12 03:37:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.502 | 41 | 11729 | 9.035 | ug/l | # | 90 |
| 42) 1,2-Dichloroethane | 8.410 | 62 | 39882 | 10.316 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.435 | 43 | 41036 | 9.743 | ug/l | | 98 |
| 44) Trichloroethene | 9.105 | 130 | 28498 | 9.905 | ug/l | | 99 |
| 45) 1,2-Dichloropropane | 9.374 | 63 | 29199 | 10.004 | ug/l | | 98 |
| 46) Dibromomethane | 9.471 | 93 | 18653 | 9.901 | ug/l | | 98 |
| 47) Bromodichloromethane | 9.654 | 83 | 42618 | 9.818 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.441 | 41 | 19654 | 9.666 | ug/l | | 98 |
| 49) 1,4-Dioxane | 9.465 | 88 | 4684 | 192.302 | ug/l | | 99 |
| 51) 4-Methyl-2-Pentanone | 10.215 | 43 | 121419 | 51.075 | ug/l | | 99 |
| 52) Toluene | 10.392 | 92 | 75250 | 9.888 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.605 | 75 | 38397 | 9.441 | ug/l | | 96 |
| 54) cis-1,3-Dichloropropene | 10.075 | 75 | 44031 | 9.543 | ug/l | | 97 |
| 55) 1,1,2-Trichloroethane | 10.788 | 97 | 25277 | 10.097 | ug/l | | 96 |
| 56) Ethyl methacrylate | 10.648 | 69 | 31022 | 9.260 | ug/l | | 97 |
| 57) 1,3-Dichloropropane | 10.934 | 76 | 44743 | 10.254 | ug/l | | 98 |
| 58) 2-Chloroethyl Vinyl ether | 9.928 | 63 | 88627 | 47.830 | ug/l | | 100 |
| 59) 2-Hexanone | 10.971 | 43 | 82830 | 50.310 | ug/l | | 97 |
| 60) Dibromochloromethane | 11.129 | 129 | 27954 | 9.776 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 11.239 | 107 | 24146 | 9.926 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.867 | 164 | 23235 | 10.431 | ug/l | | 90 |
| 65) Chlorobenzene | 11.660 | 112 | 86096 | 10.257 | ug/l | | 96 |
| 66) 1,1,1,2-Tetrachloroethane | 11.733 | 131 | 26286 | 10.037 | ug/l | | 97 |
| 67) Ethyl Benzene | 11.733 | 91 | 139254 | 9.794 | ug/l | | 98 |
| 68) m/p-Xylenes | 11.837 | 106 | 108990 | 19.866 | ug/l | | 98 |
| 69) o-Xylene | 12.166 | 106 | 49259 | 9.714 | ug/l | | 97 |
| 70) Styrene | 12.184 | 104 | 87542 | 9.719 | ug/l | | 99 |
| 71) Bromoform | 12.349 | 173 | 14547 | 9.711 | ug/l | # | 97 |
| 73) Isopropylbenzene | 12.464 | 105 | 125246 | 9.886 | ug/l | | 98 |
| 74) N-amyl acetate | 12.269 | 43 | 35636 | 9.804 | ug/l | | 97 |
| 75) 1,1,2,2-Tetrachloroethane | 12.714 | 83 | 31581 | 10.499 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.763 | 75 | 39515 | 14.180 | ug/l | | 58 |
| 77) Bromobenzene | 12.745 | 156 | 31656 | 10.462 | ug/l | | 98 |
| 78) n-propylbenzene | 12.800 | 91 | 156266 | 10.019 | ug/l | | 98 |
| 79) 2-Chlorotoluene | 12.891 | 91 | 96942 | 10.071 | ug/l | | 98 |
| 80) 1,3,5-Trimethylbenzene | 12.940 | 105 | 108123 | 10.053 | ug/l | | 97 |
| 81) trans-1,4-Dichloro-2-b... | 12.513 | 75 | 8936 | 9.403 | ug/l | | 90 |
| 82) 4-Chlorotoluene | 12.989 | 91 | 103329 | 10.103 | ug/l | | 100 |
| 83) tert-Butylbenzene | 13.202 | 119 | 86848 | 9.729 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.245 | 105 | 110697 | 10.110 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.379 | 105 | 131663 | 9.756 | ug/l | | 98 |
| 86) p-Isopropyltoluene | 13.495 | 119 | 110557 | 9.827 | ug/l | | 98 |
| 87) 1,3-Dichlorobenzene | 13.495 | 146 | 62383 | 10.361 | ug/l | | 97 |
| 88) 1,4-Dichlorobenzene | 13.574 | 146 | 62843 | 10.328 | ug/l | | 98 |
| 89) n-Butylbenzene | 13.818 | 91 | 108004 | 9.881 | ug/l | | 99 |
| 90) Hexachloroethane | 14.086 | 117 | 20175 | 9.805 | ug/l | | 96 |
| 91) 1,2-Dichlorobenzene | 13.867 | 146 | 56501 | 10.359 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.482 | 75 | 5305 | 9.920 | ug/l | | 95 |
| 93) 1,2,4-Trichlorobenzene | 15.129 | 180 | 31816 | 9.751 | ug/l | | 97 |
| 94) Hexachlorobutadiene | 15.232 | 225 | 14987 | 10.276 | ug/l | | 98 |
| 95) Naphthalene | 15.360 | 128 | 76287 | 9.542 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.549 | 180 | 28678 | 9.660 | ug/l | | 99 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032053.D
Acq On : 11 Aug 2025 09:09
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Quant Time: Aug 12 03:37:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

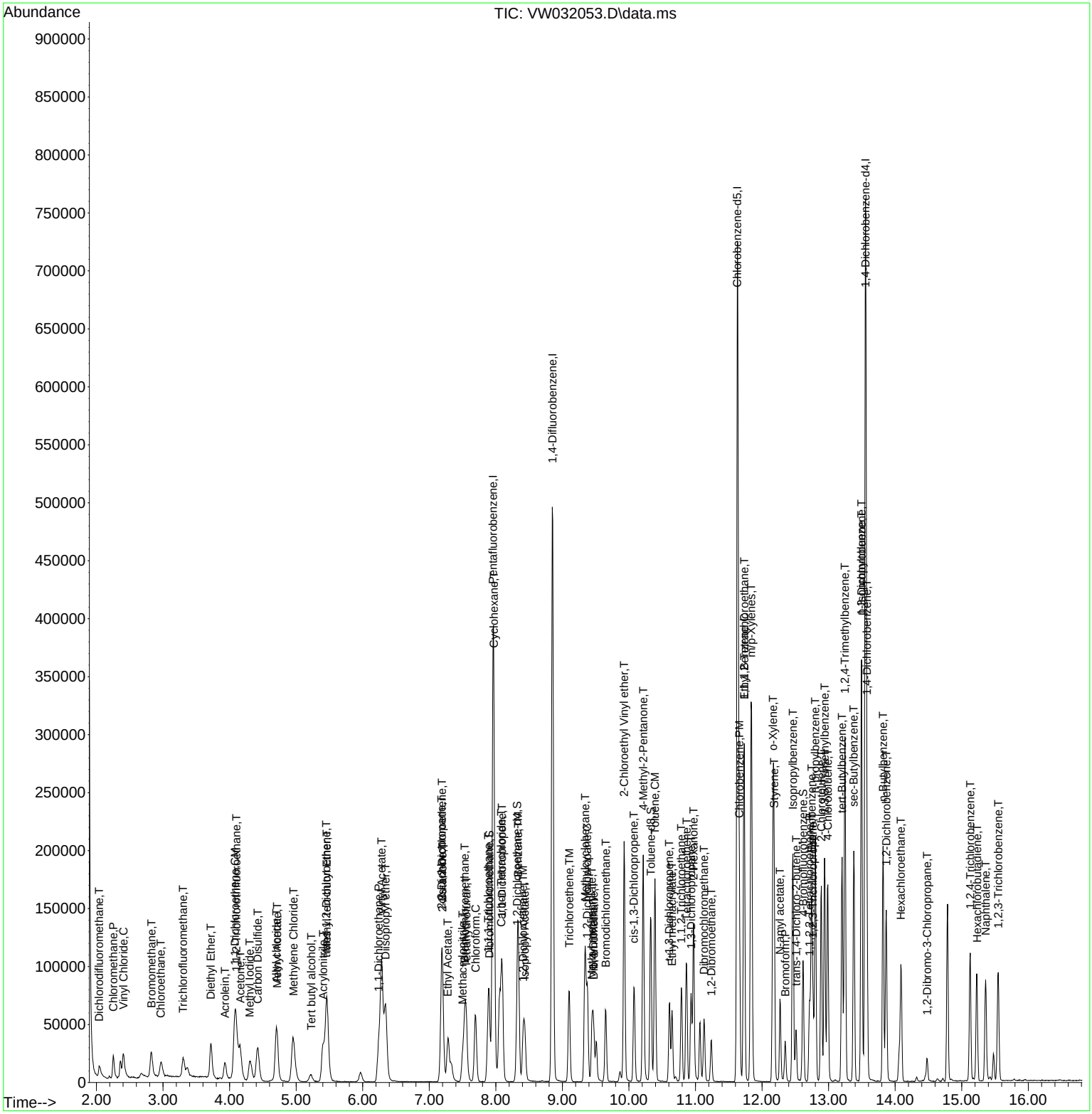
(#) = qualifier out of range (m) = manual integration (+) = signals summed

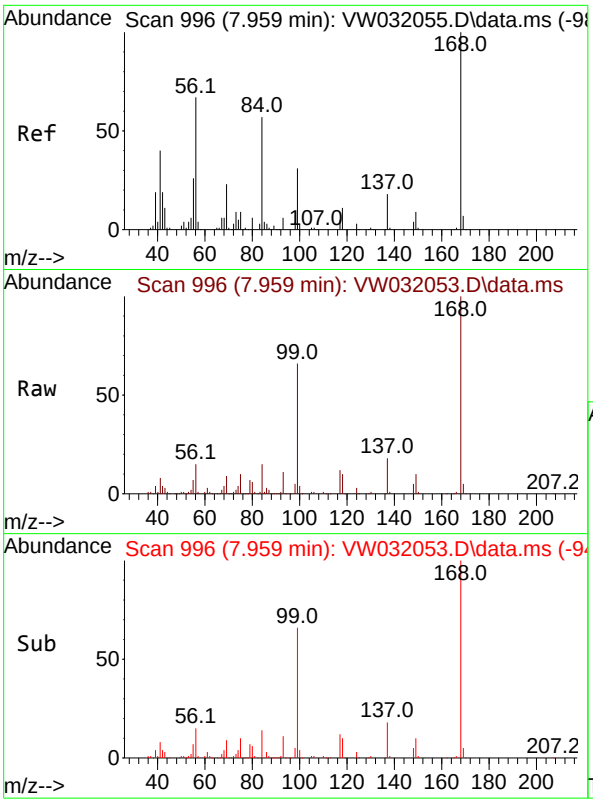
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032053.D
Acq On : 11 Aug 2025 09:09
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Quant Time: Aug 12 03:37:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration



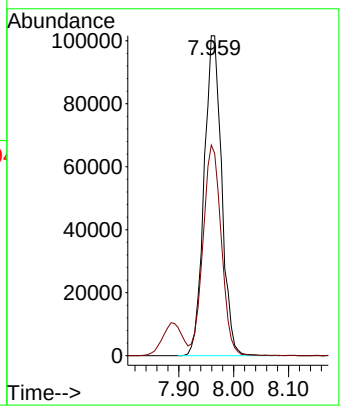


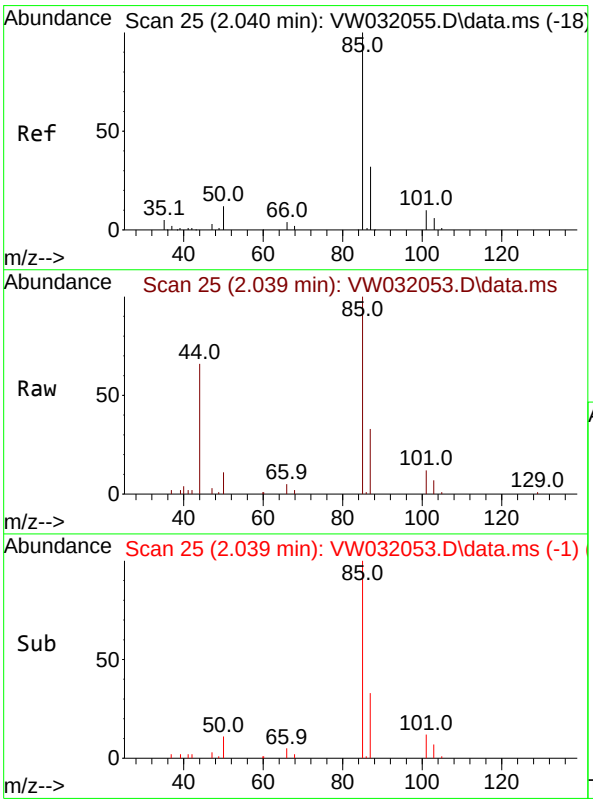

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion:168 Resp: 225221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 65.7 | 56.0 | 84.0 |

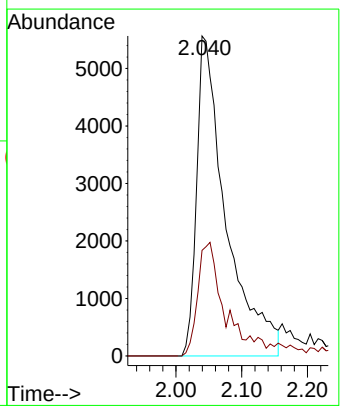


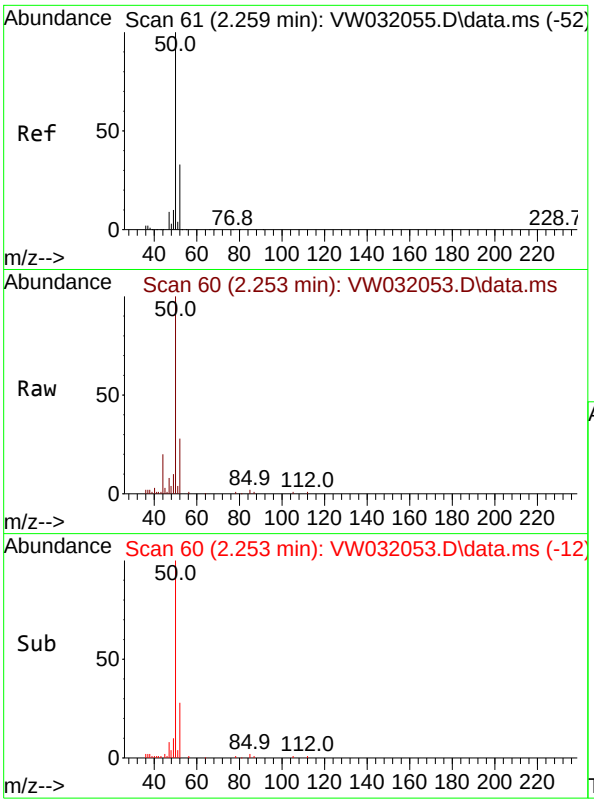




#2
Dichlorodifluoromethane
Concen: 10.714 ug/l
RT: 2.039 min Scan# 25
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 85 Resp: 17258

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.0 | 16.2 | 48.6 |



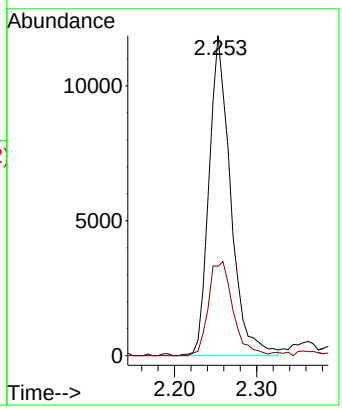


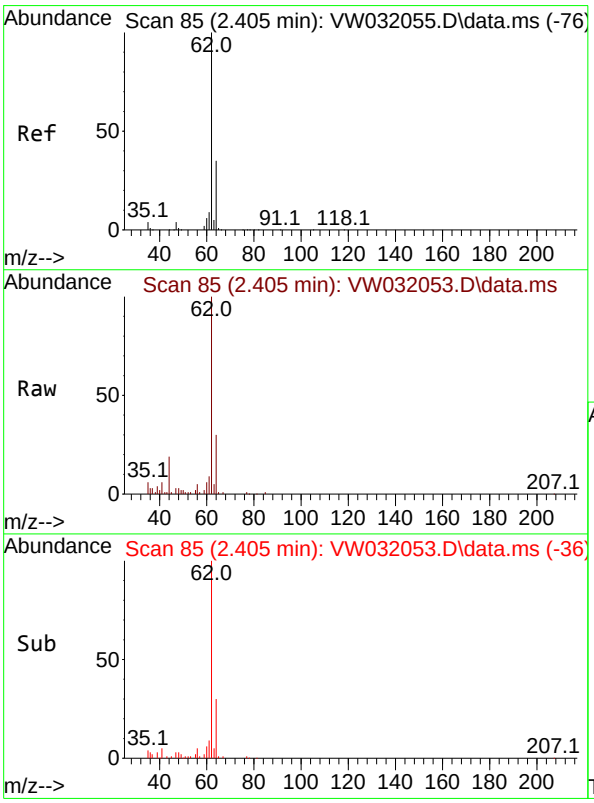

#3
Chloromethane
Concen: 9.998 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion: 50 Resp: 21693

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 27.9 | 26.6 | 39.8 |

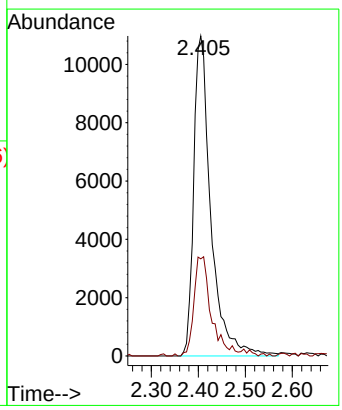


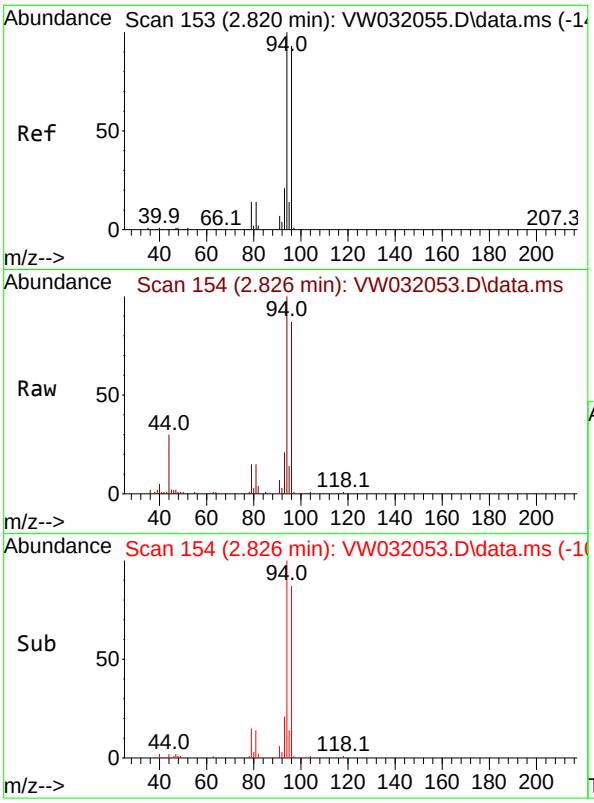




#4
Vinyl Chloride
Concen: 10.660 ug/l
RT: 2.405 min Scan# 85
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 62 Resp: 27978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 30.3 | 27.8 | 41.6 |



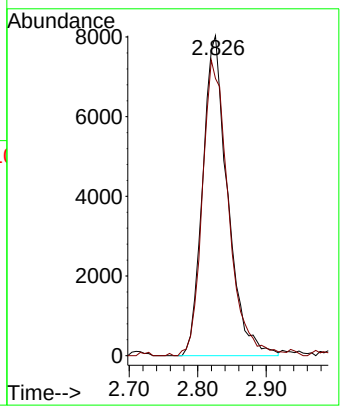


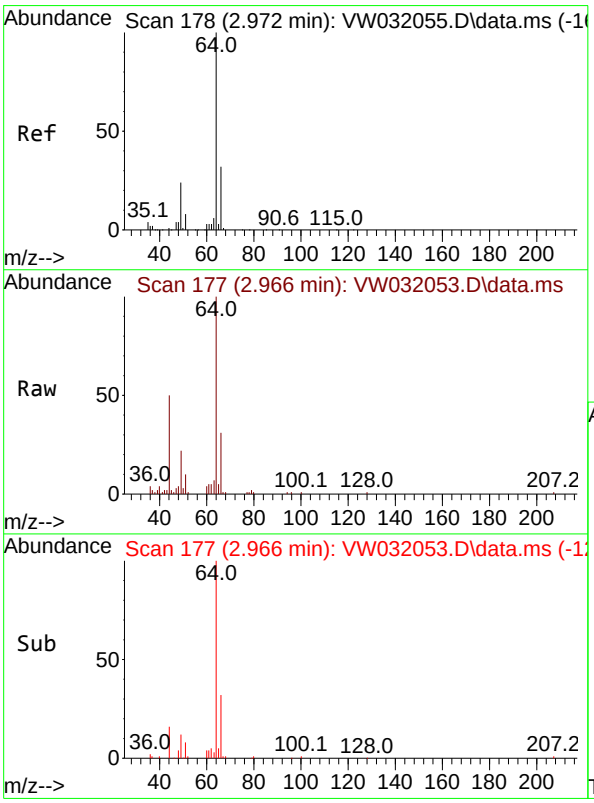

#5
Bromomethane
Concen: 10.332 ug/l
RT: 2.826 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion: 94 Resp: 20345

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 86.6 | 74.7 | 112.1 |

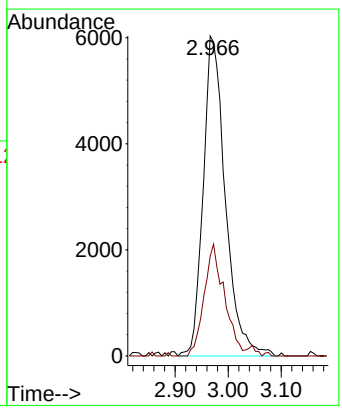


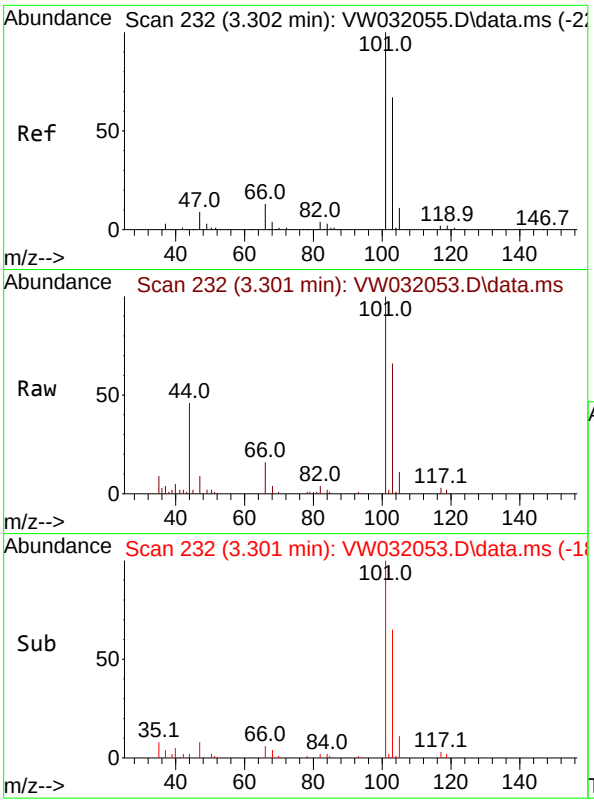




#6
Chloroethane
Concen: 10.081 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 64 Resp: 17509

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.2 | 26.0 | 39.0 |



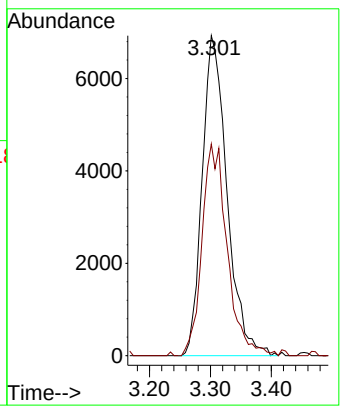


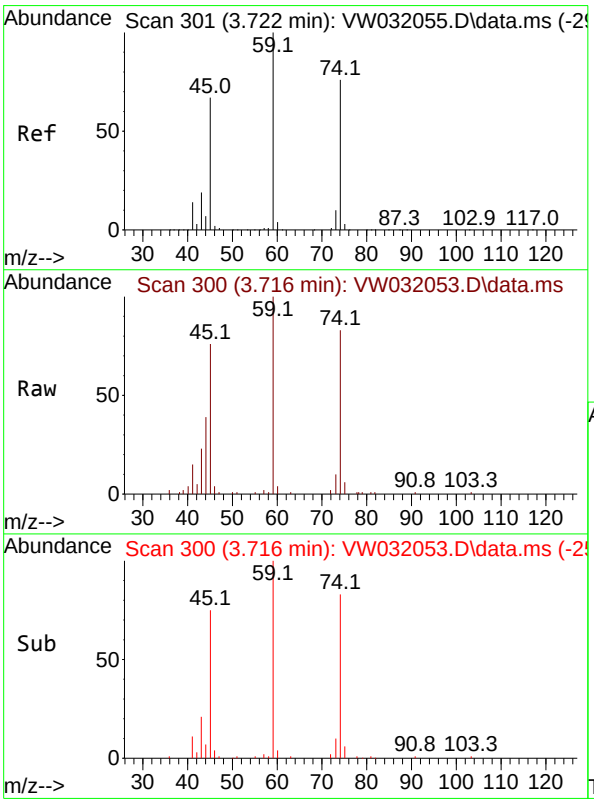

#7
Trichlorofluoromethane
Concen: 9.333 ug/l
RT: 3.301 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion:101 Resp: 19623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 66.2 | 53.4 | 80.0 |

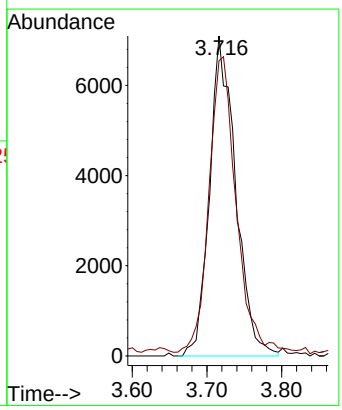


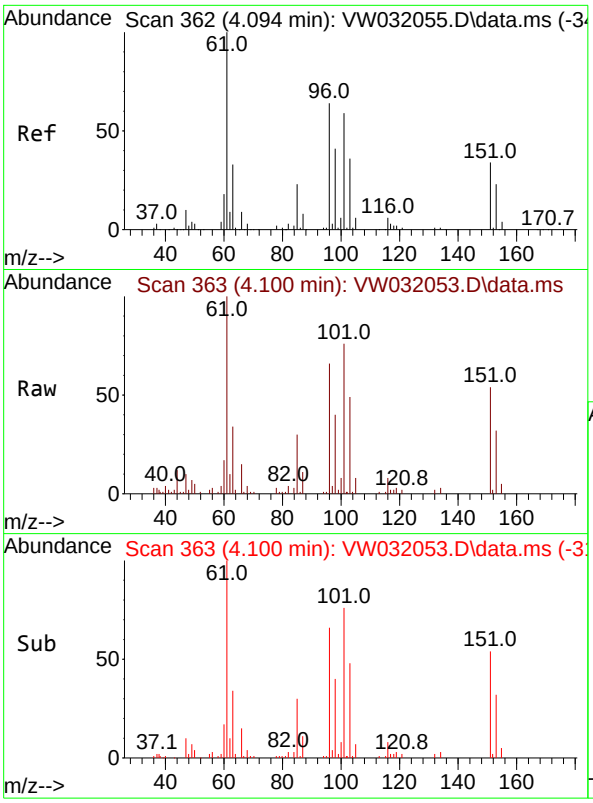




#8
Diethyl Ether
Concen: 10.000 ug/l
RT: 3.716 min Scan# 300
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 74 Resp: 17227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 95.9 | 45.4 | 136.2 |



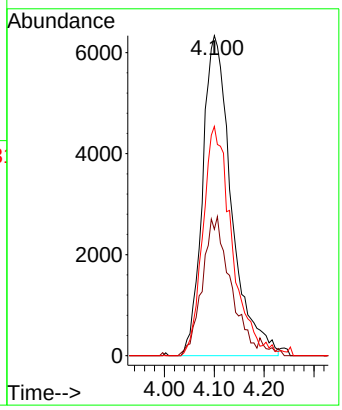


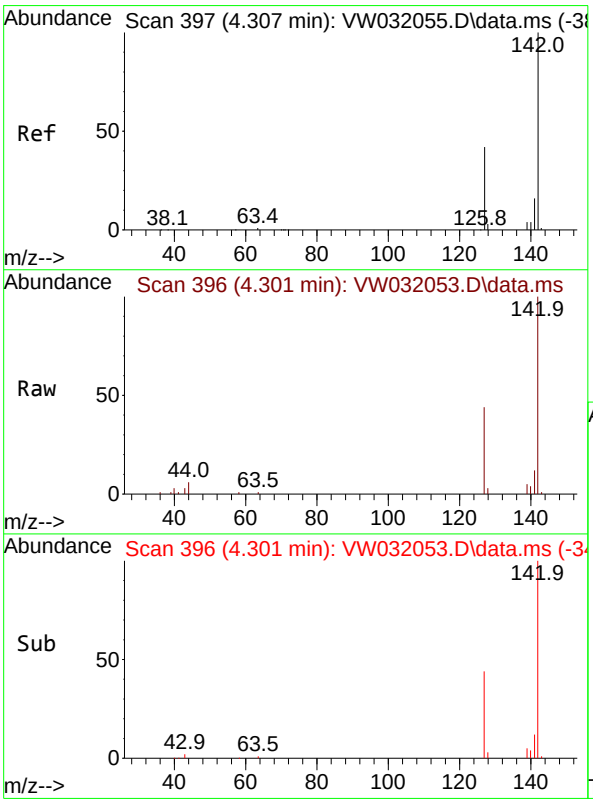

#9
1,1,2-Trichlorotrifluoroethane
Concen: 10.276 ug/l
RT: 4.100 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion:101 Resp: 25491

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 42.4 | 34.9 | 52.3 |
| 151 | 70.9 | 56.2 | 84.4 |

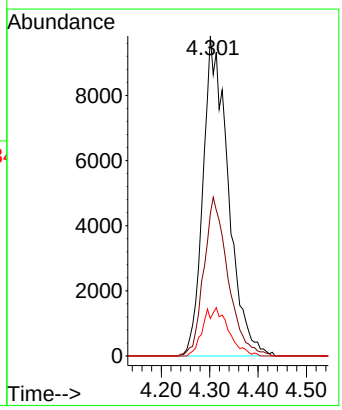


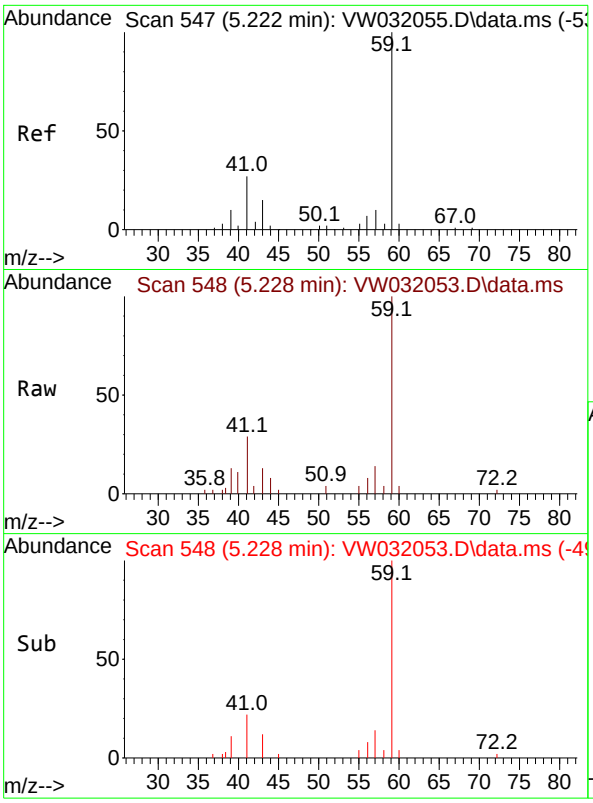




#10
Methyl Iodide
Concen: 10.098 ug/l
RT: 4.301 min Scan# 396
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:142 Resp: 35515

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 47.6 | 36.6 | 55.0 |
| 141 | 15.4 | 12.1 | 18.1 |



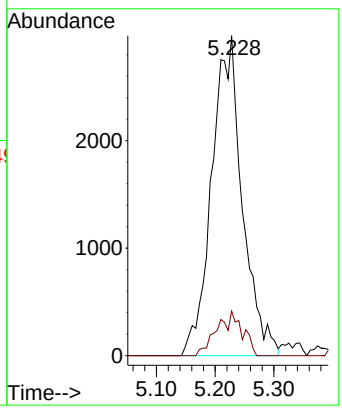


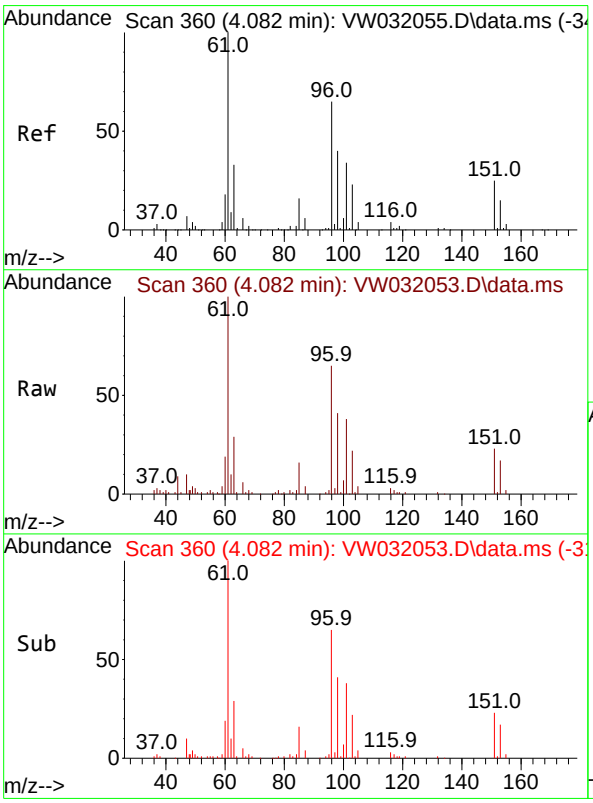

#11
Tert butyl alcohol
Concen: 50.985 ug/l
RT: 5.228 min Scan# 54
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion: 59 Resp: 10754

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 11.7 | 8.7 | 13.1 |

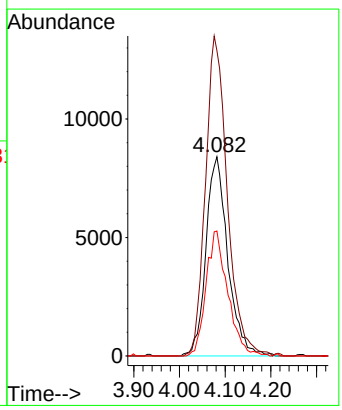


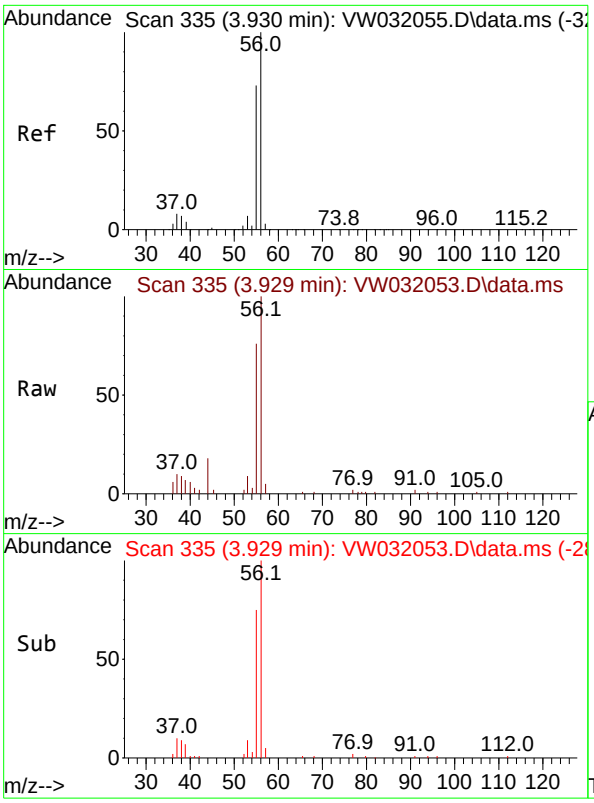




#12
1,1-Dichloroethene
Concen: 10.231 ug/l
RT: 4.082 min Scan# 360
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 96 Resp: 27944

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 153.3 | 123.4 | 185.2 |
| 98 | 62.7 | 49.5 | 74.3 |



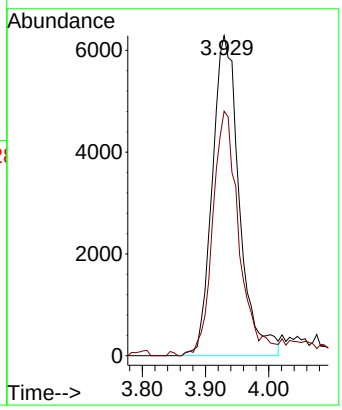


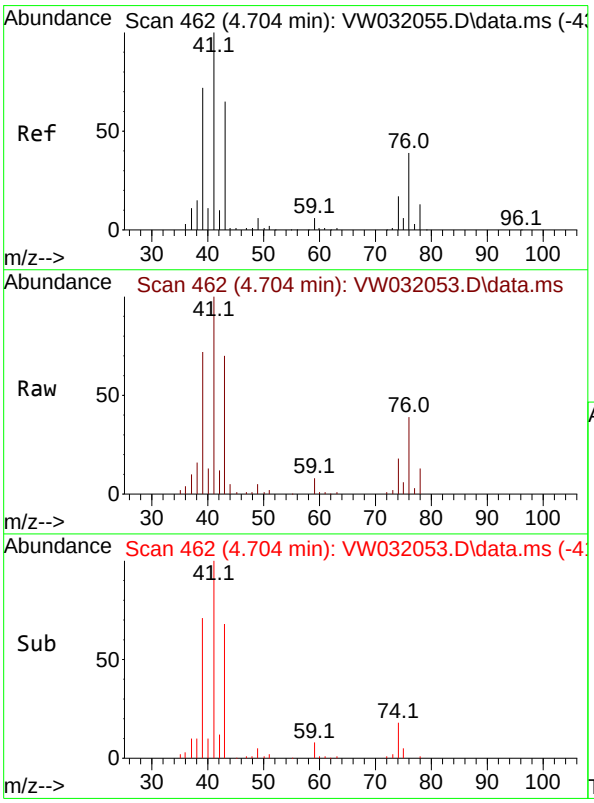

#13
Acrolein
Concen: 55.493 ug/l
RT: 3.929 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion: 56 Resp: 18650

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 74.5 | 55.4 | 83.2 |

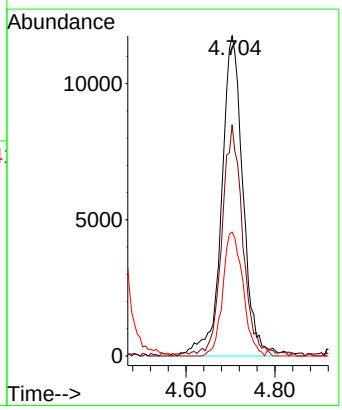


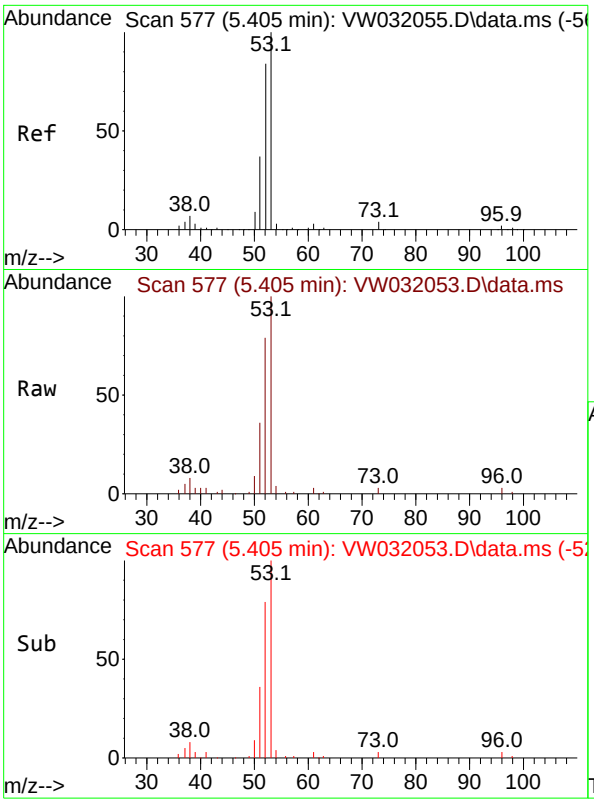




#14
Allyl chloride
Concen: 9.839 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 41 Resp: 39114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 68.2 | 54.5 | 81.7 |
| 76 | 36.6 | 29.3 | 43.9 |



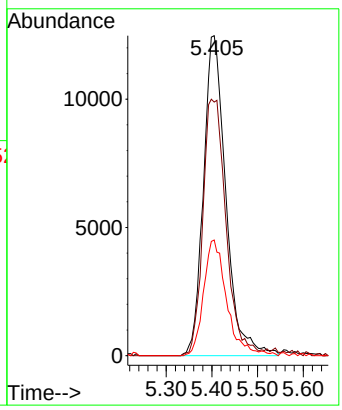


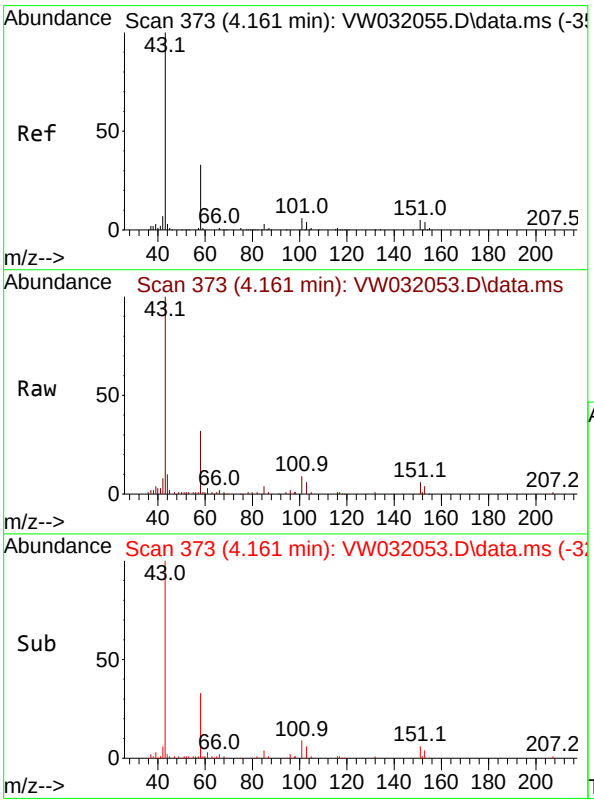

#15
Acrylonitrile
Concen: 51.842 ug/l
RT: 5.405 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion: 53 Resp: 42536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.5 | 66.1 | 99.1 |
| 51 | 37.3 | 29.2 | 43.8 |

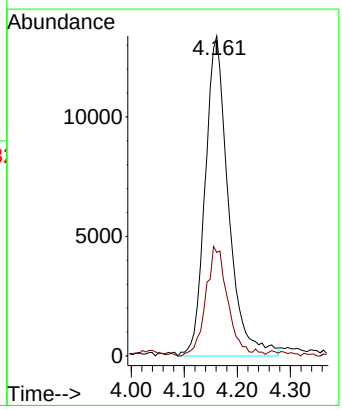


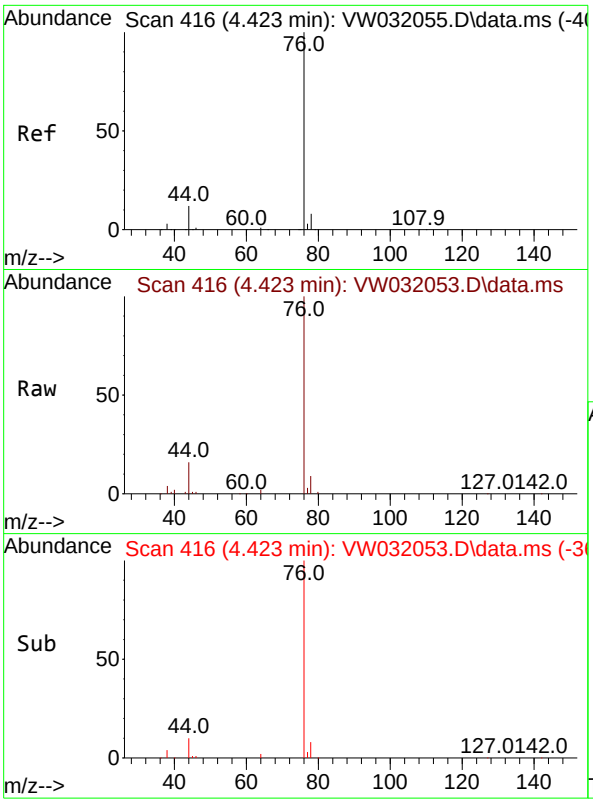




#16
Acetone
Concen: 54.122 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 43 Resp: 40816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.4 | 26.6 | 39.8 |



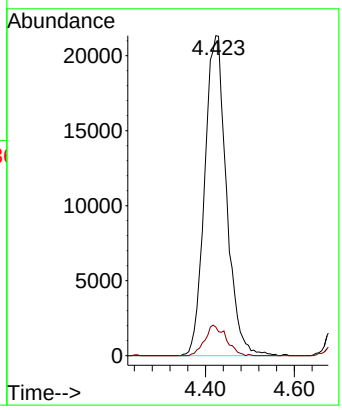


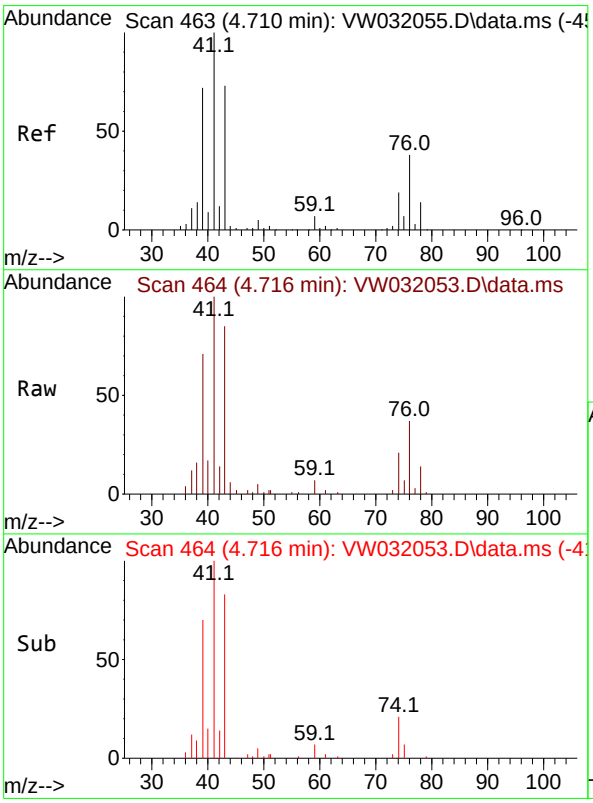

#17
Carbon Disulfide
Concen: 9.931 ug/l
RT: 4.423 min Scan# 4
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion: 76 Resp: 72806

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.0 | 6.4 | 9.6 |

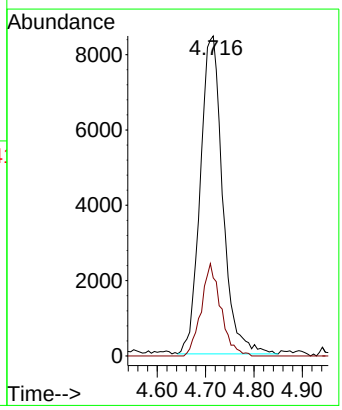


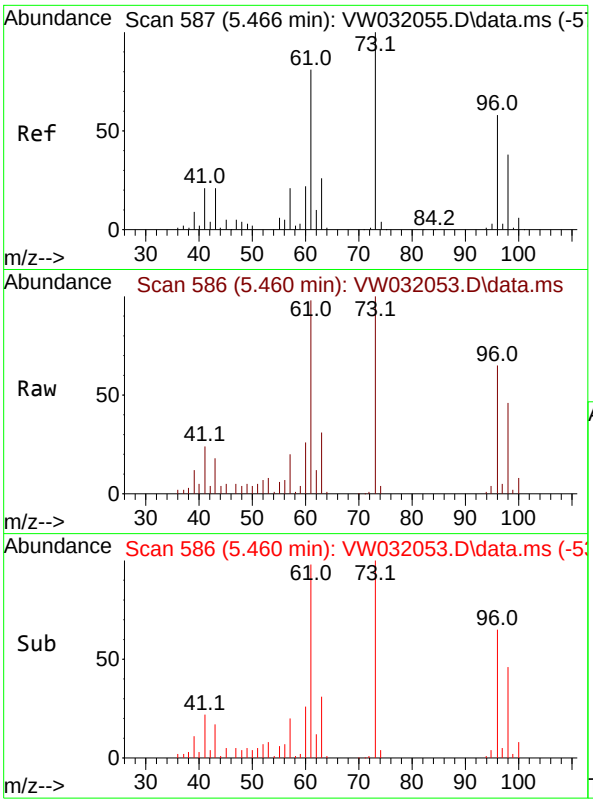




#18
Methyl Acetate
Concen: 11.394 ug/l
RT: 4.716 min Scan# 464
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 43 Resp: 27191

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 25.5 | 20.6 | 31.0 |



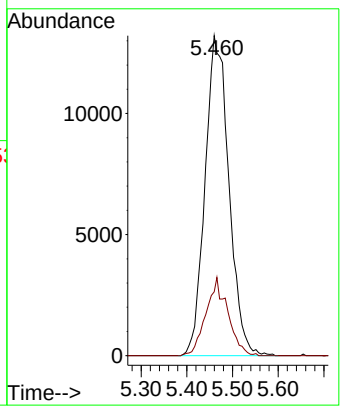


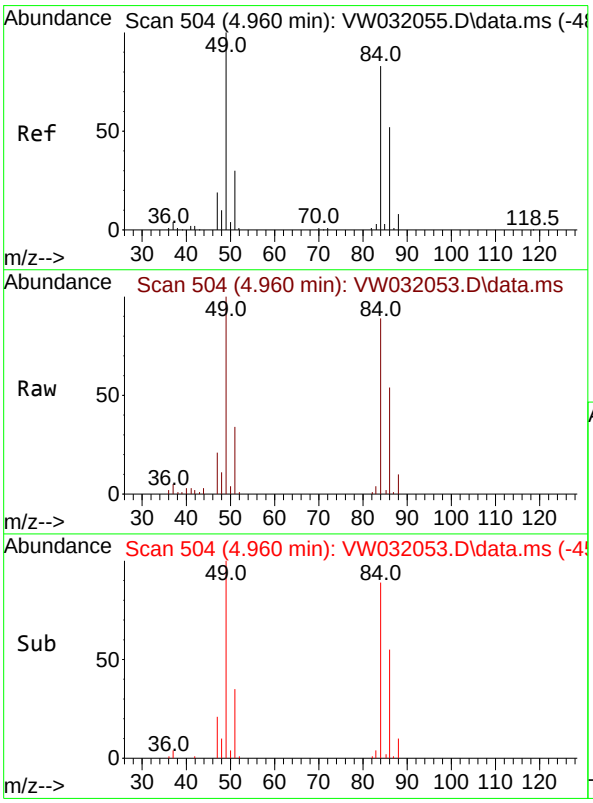

#19
Methyl tert-butyl Ether
Concen: 9.947 ug/l
RT: 5.460 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion: 73 Resp: 47872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 20.0 | 17.2 | 25.8 |

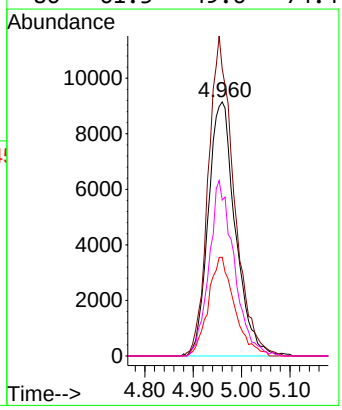


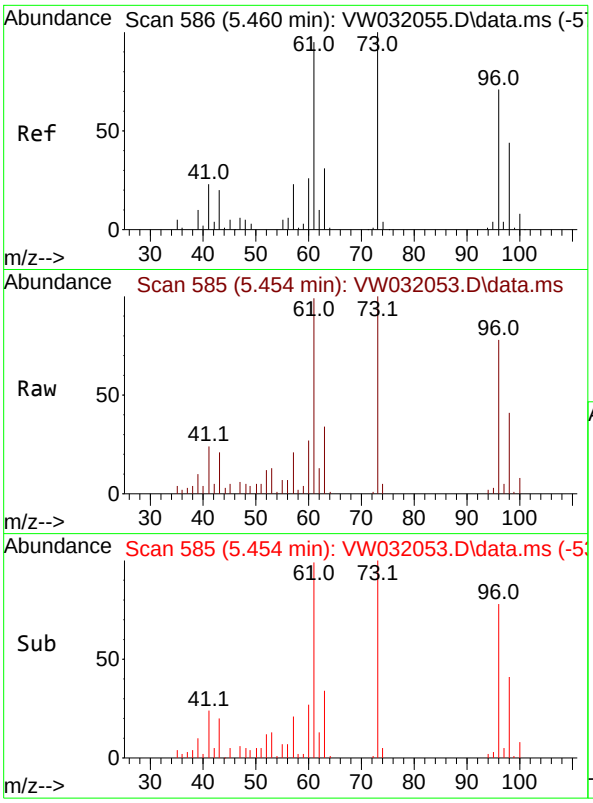




#20
Methylene Chloride
Concen: 10.170 ug/l
RT: 4.960 min Scan# 504
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 84 Resp: 35462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 113.0 | 95.9 | 143.9 |
| 51 | 38.9 | 28.6 | 43.0 |
| 86 | 61.3 | 49.6 | 74.4 |



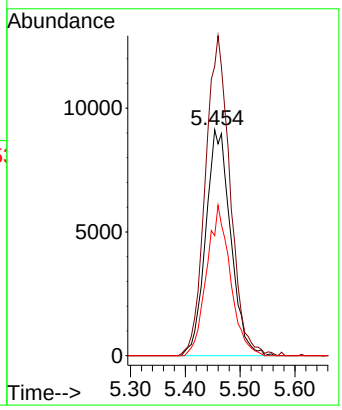


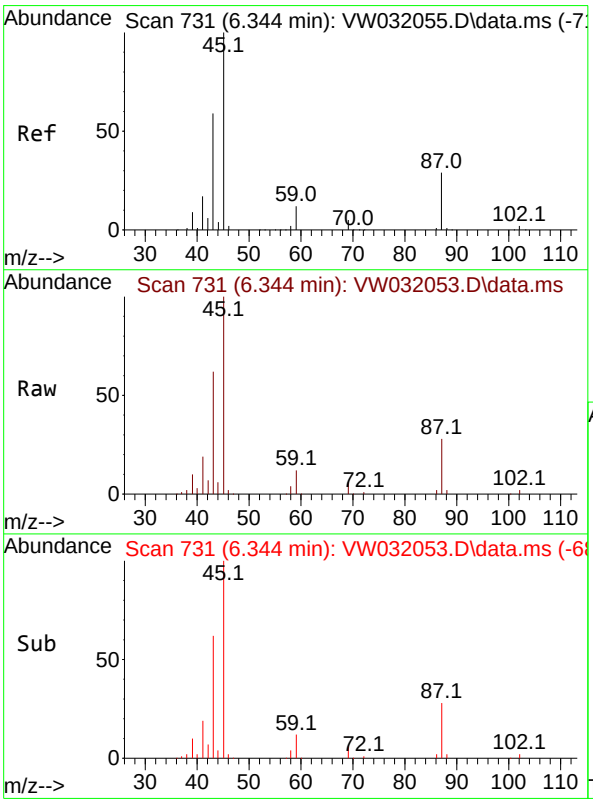

#21
trans-1,2-Dichloroethene
Concen: 9.962 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion: 96 Resp: 28875

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 128.0 | 106.8 | 160.2 |
| 98 | 53.2 | 49.6 | 74.4 |

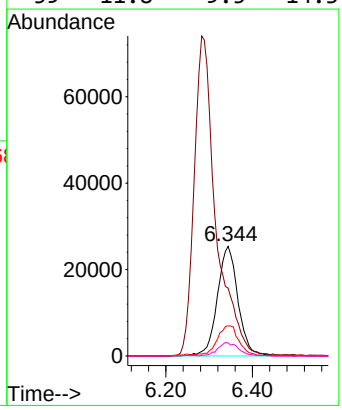


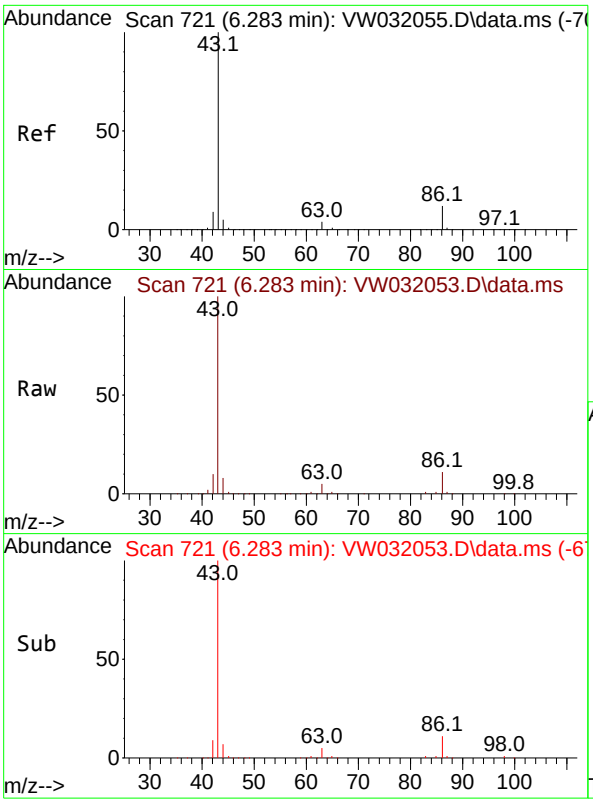




#22
Diisopropyl ether
Concen: 10.029 ug/l
RT: 6.344 min Scan# 731
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 45 Resp: 84045

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 61.0 | 47.0 | 70.4 |
| 87 | 27.5 | 23.8 | 35.8 |
| 59 | 11.8 | 9.5 | 14.3 |



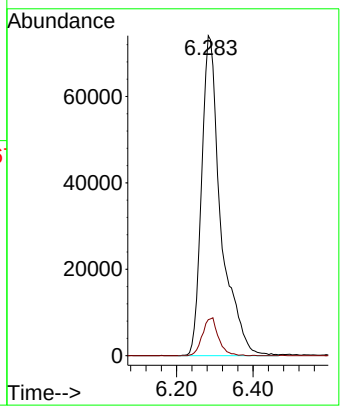


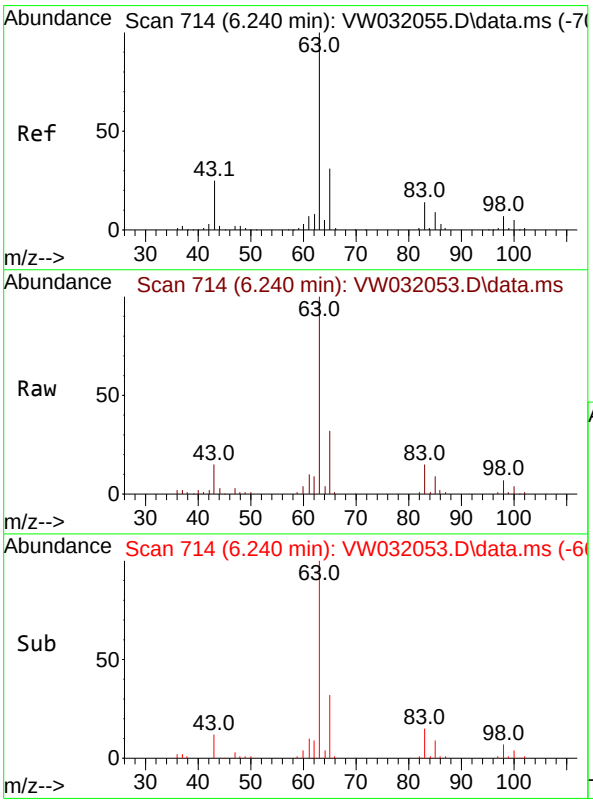

#23
Vinyl Acetate
Concen: 47.081 ug/l
RT: 6.283 min Scan# 7
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion: 43 Resp: 259050

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.2 | 9.4 | 14.0 |

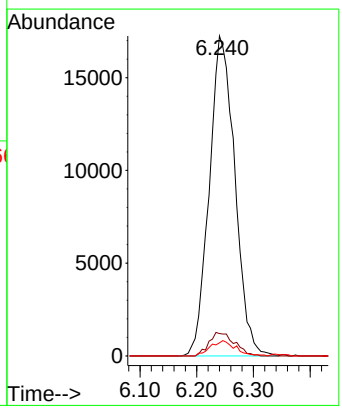


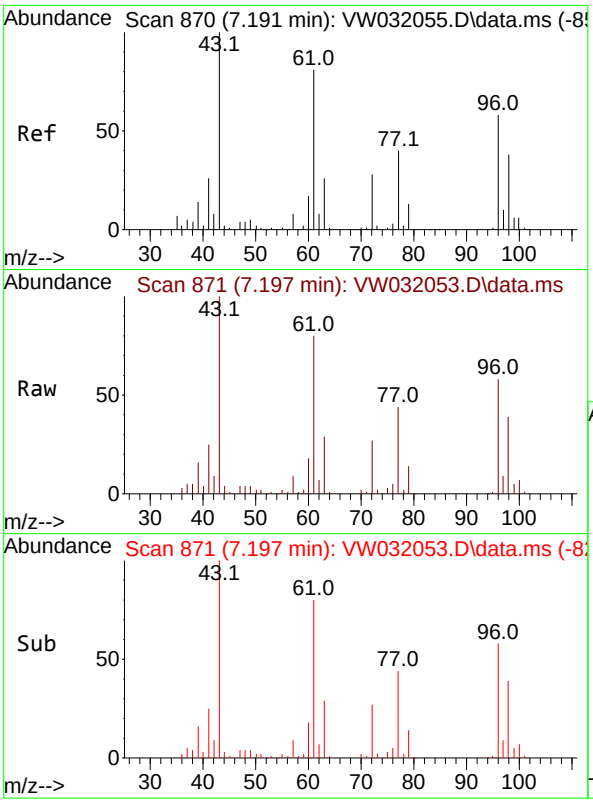




#24
1,1-Dichloroethane
Concen: 10.095 ug/l
RT: 6.240 min Scan# 714
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 63 Resp: 54051

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.0 | 3.7 | 11.1 |
| 100 | 4.1 | 2.5 | 7.4 |



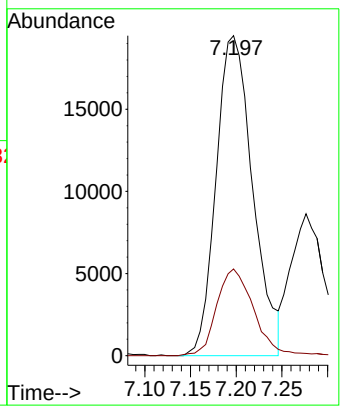


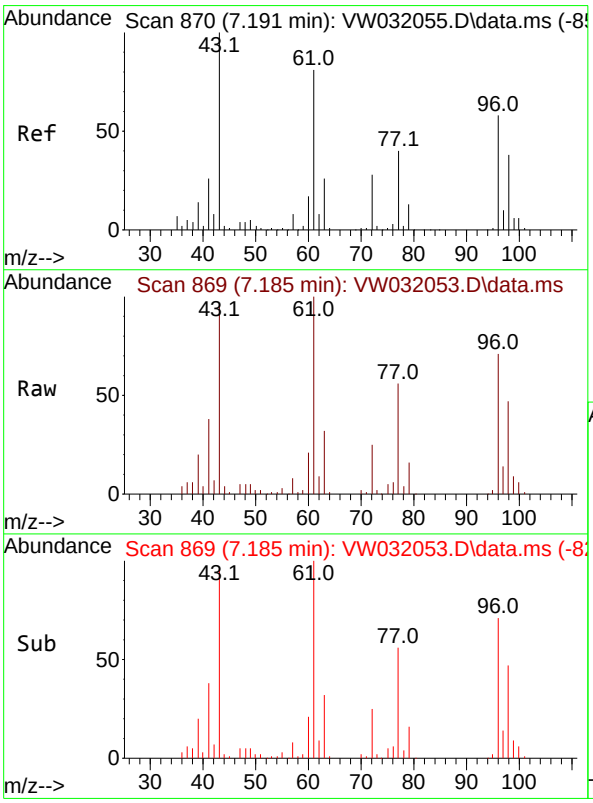

#25
2-Butanone
Concen: 50.685 ug/l
RT: 7.197 min Scan# 8
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion: 43 Resp: 54327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 27.1 | 22.3 | 33.5 |

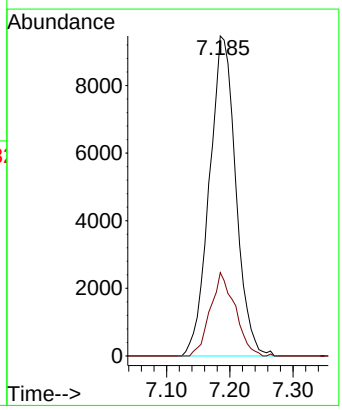


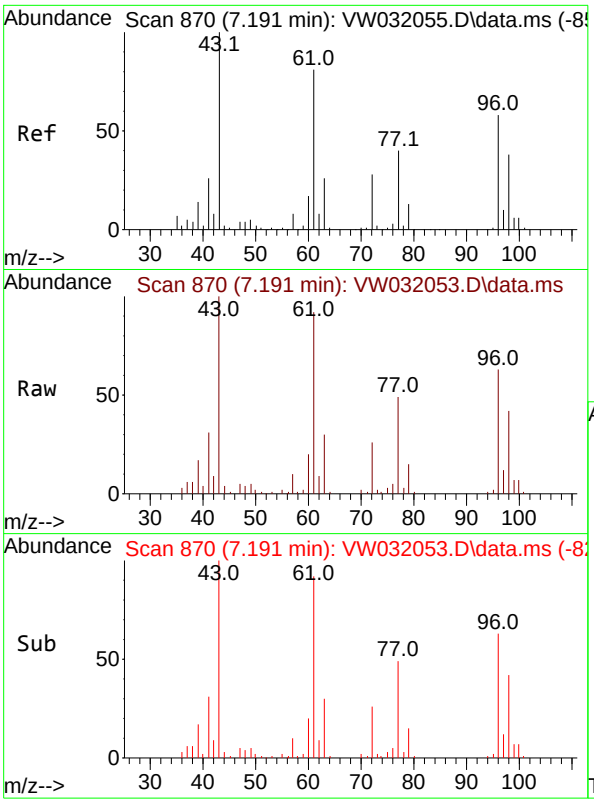




#26
2,2-Dichloropropane
Concen: 10.224 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 77 Resp: 27463

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 24.5 | 12.3 | 36.9 |



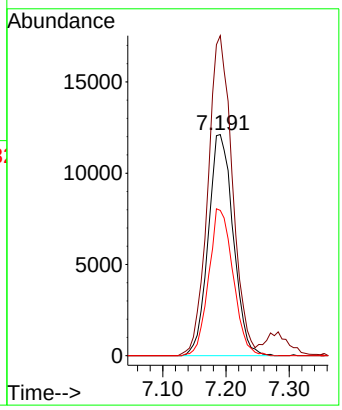


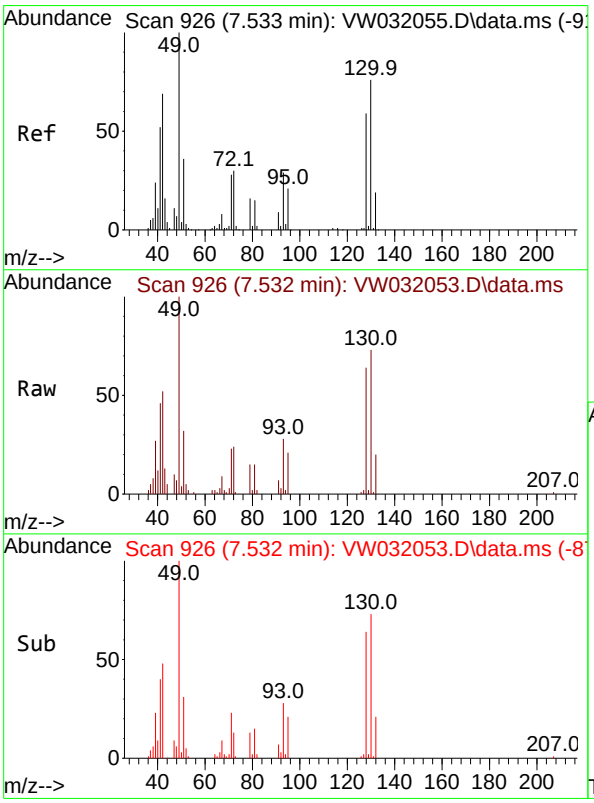

#27
cis-1,2-Dichloroethene
Concen: 9.791 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion: 96 Resp: 33173

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 142.3 | 0.0 | 281.2 |
| 98 | 64.9 | 0.0 | 130.8 |

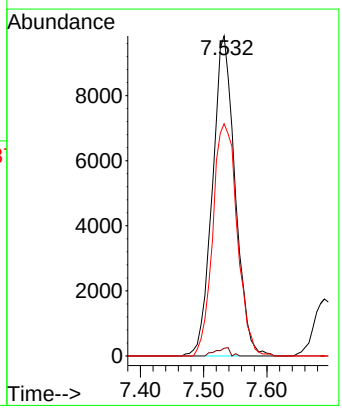


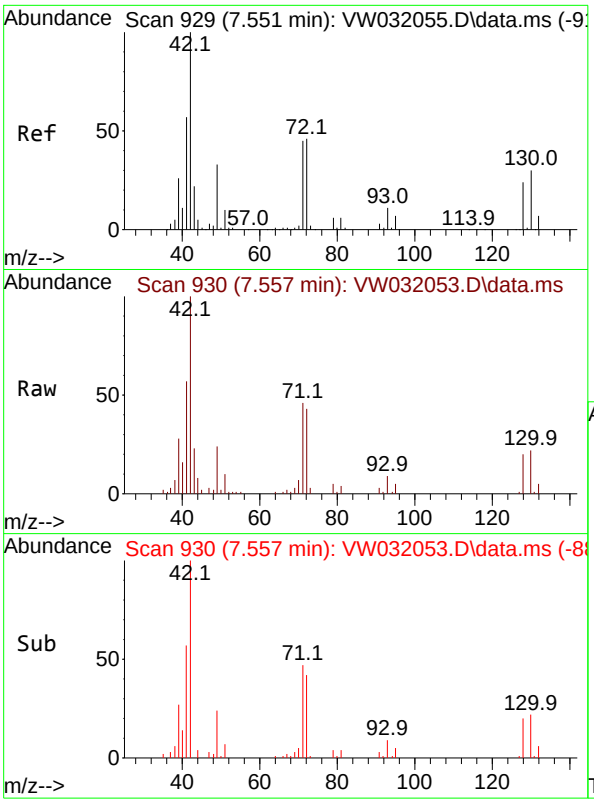




#28
Bromochloromethane
Concen: 10.019 ug/l
RT: 7.532 min Scan# 926
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 49 Resp: 24412

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.6 | 0.0 | 4.2 |
| 130 | 78.2 | 61.9 | 92.9 |



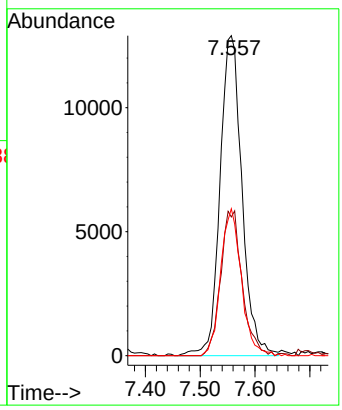


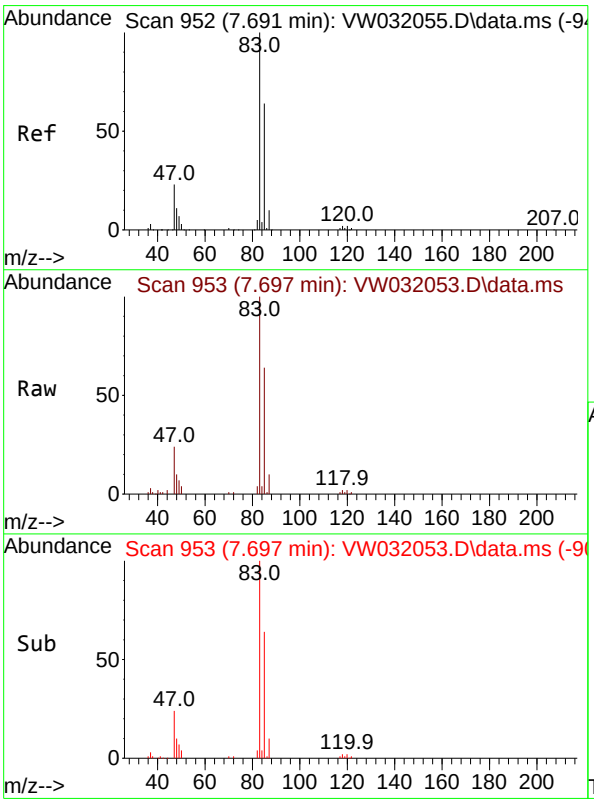

#29
Tetrahydrofuran
Concen: 50.800 ug/l
RT: 7.557 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion: 42 Resp: 35909

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 44.5 | 36.6 | 55.0 |
| 71 | 43.3 | 34.7 | 52.1 |

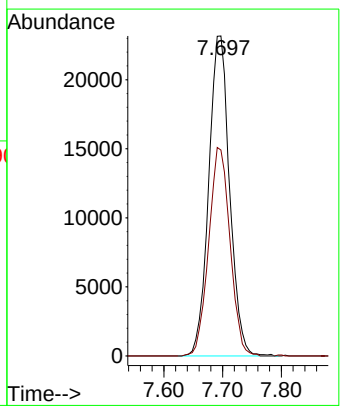


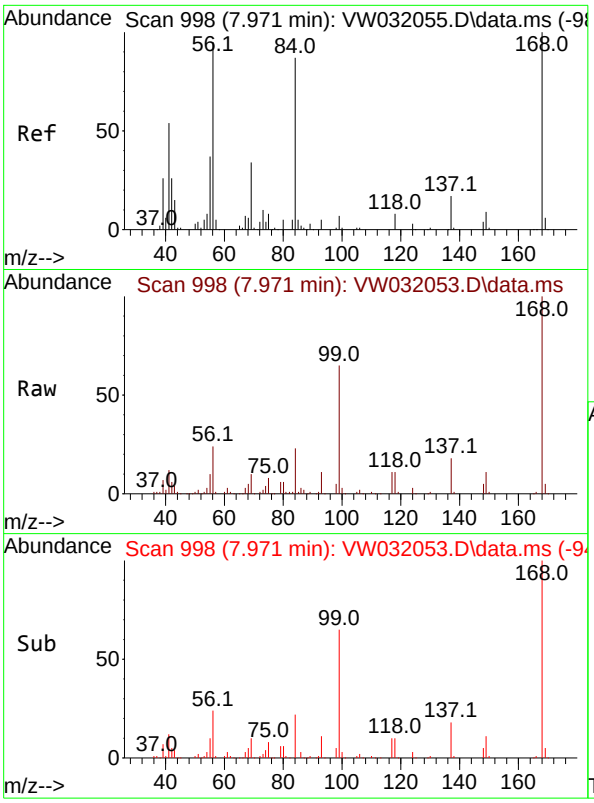




#30
Chloroform
Concen: 10.071 ug/l
RT: 7.697 min Scan# 953
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 83 Resp: 57170

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.3 | 51.0 | 76.4 |



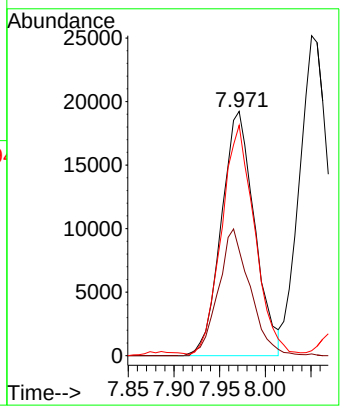


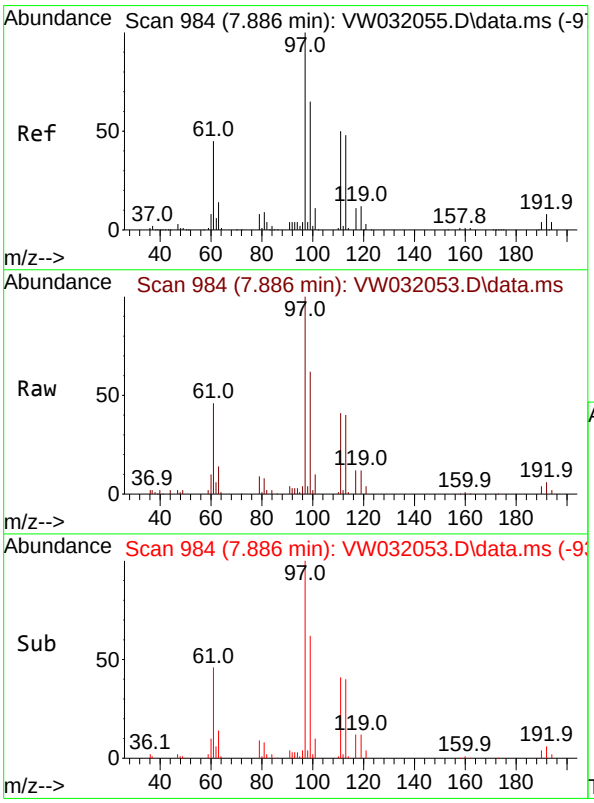

#31
Cyclohexane
Concen: 10.477 ug/l
RT: 7.971 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion: 56 Resp: 48633

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 43.1 | 28.6 | 42.8# |
| 84 | 93.2 | 73.0 | 109.4 |

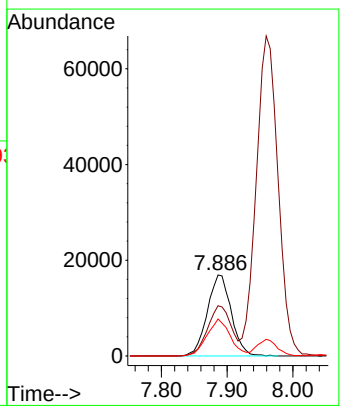


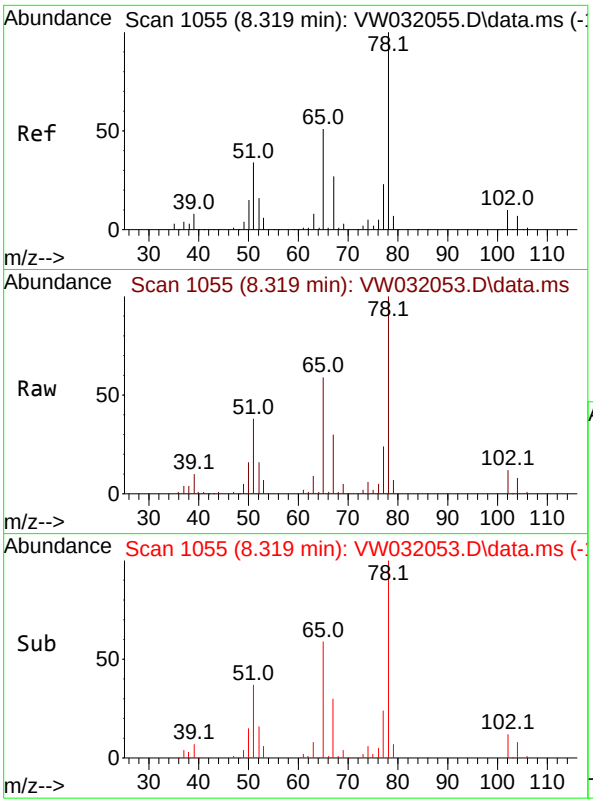




#32
1,1,1-Trichloroethane
Concen: 10.368 ug/l
RT: 7.886 min Scan# 984
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 97 Resp: 42747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 61.1 | 51.8 | 77.8 |
| 61 | 45.0 | 35.9 | 53.9 |



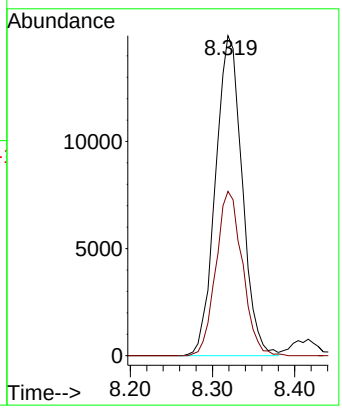


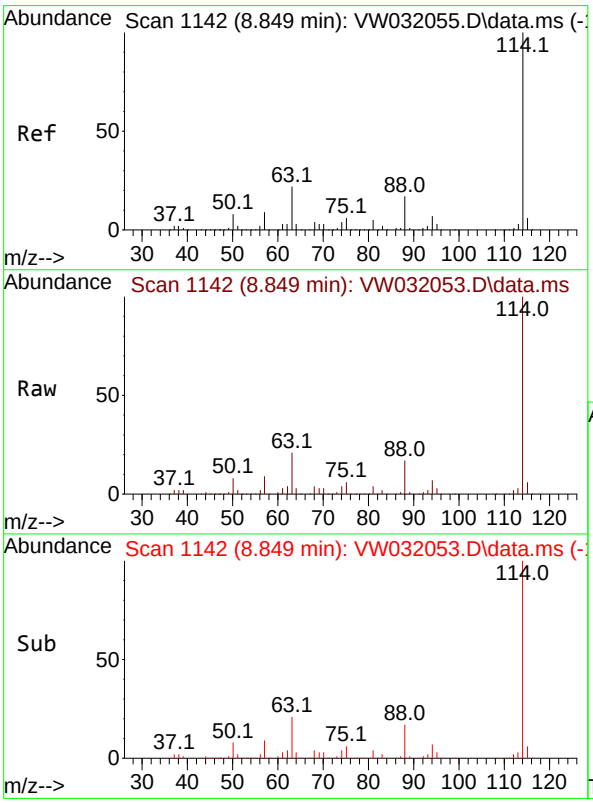

#33
1,2-Dichloroethane-d4
Concen: 10.337 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion: 65 Resp: 33671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.0 | 0.0 | 102.4 |

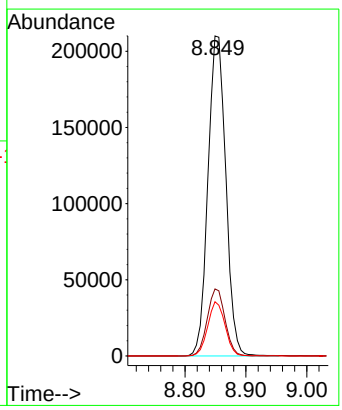


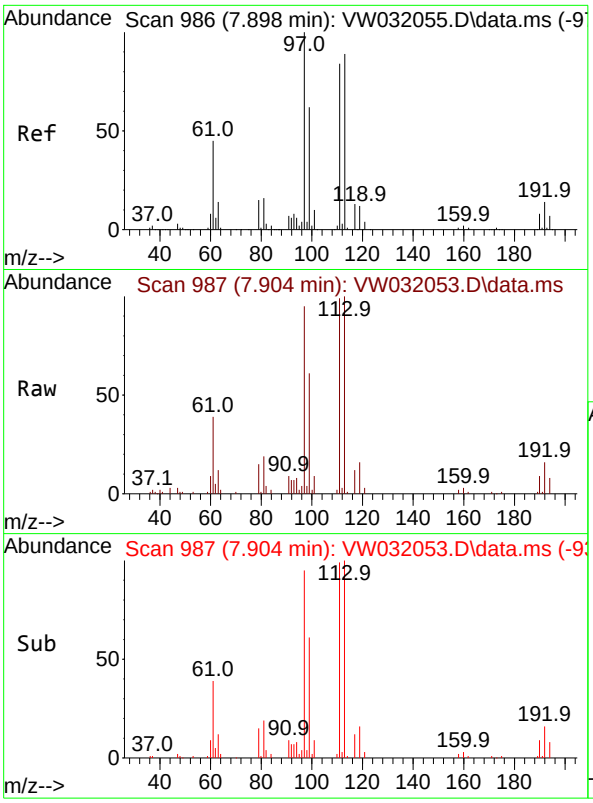




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:114 Resp: 426784

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.0 | 0.0 | 43.0 |
| 88 | 17.0 | 0.0 | 33.8 |



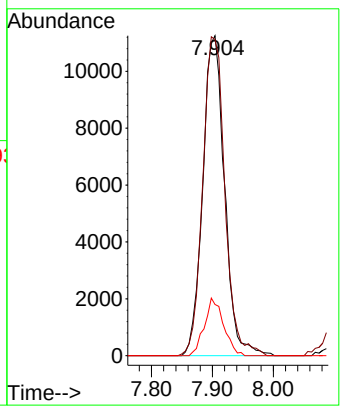


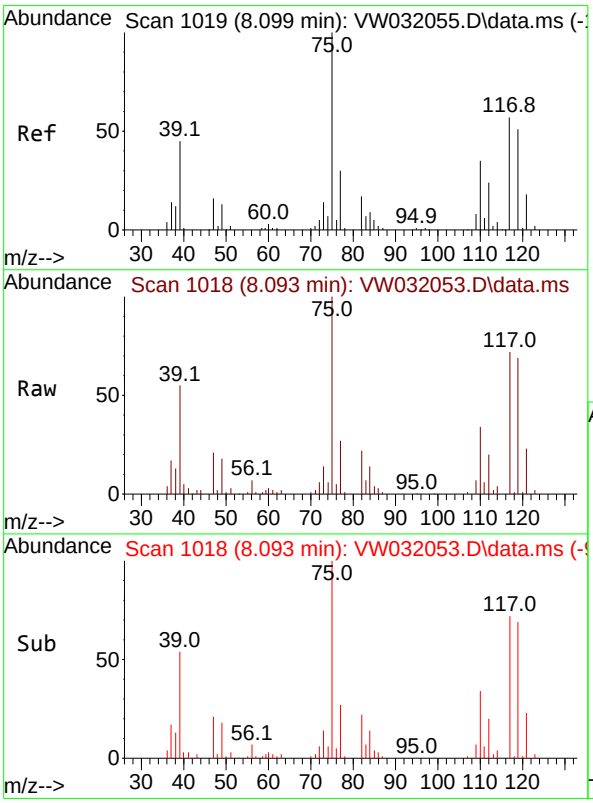

#35
Dibromofluoromethane
Concen: 10.147 ug/l
RT: 7.904 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion:113 Resp: 27978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.3 | 80.1 | 120.1 |
| 192 | 15.8 | 13.1 | 19.7 |

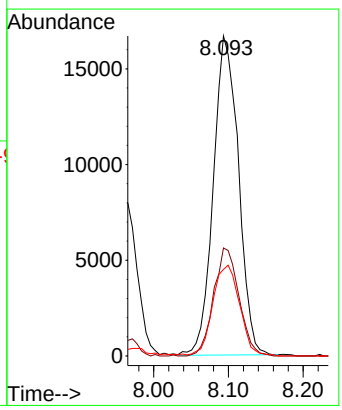


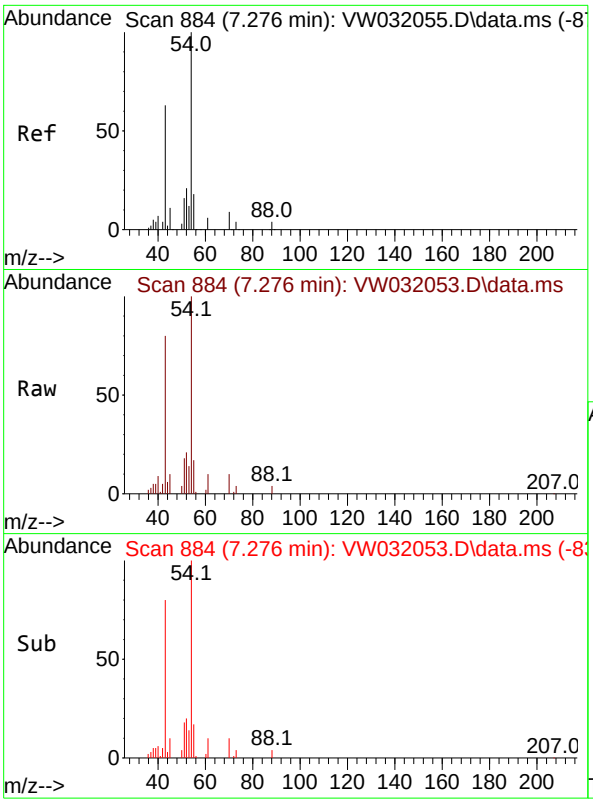




#36
1,1-Dichloropropene
Concen: 10.032 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 75 Resp: 38994

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 34.1 | 17.4 | 52.2 |
| 77 | 30.6 | 24.7 | 37.1 |



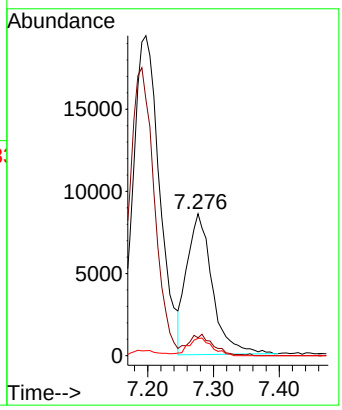


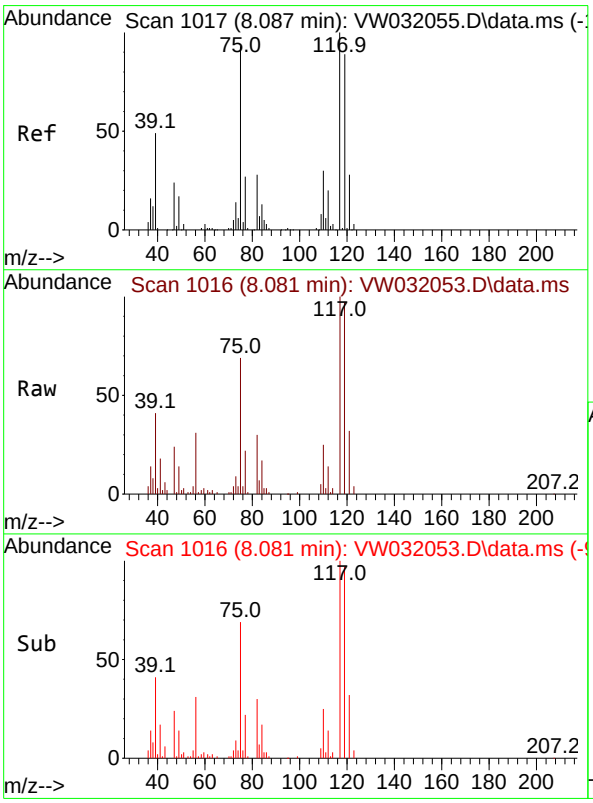

#37
Ethyl Acetate
Concen: 10.070 ug/l
RT: 7.276 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion: 43 Resp: 23053

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 11.8 | 11.8 | 17.6 |
| 70 | 11.8 | 9.4 | 14.0 |

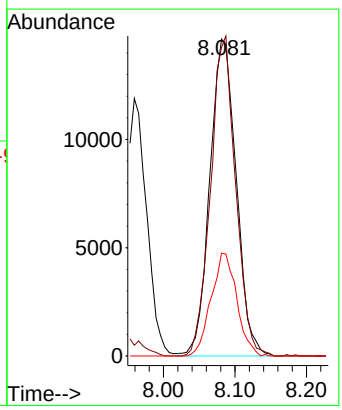


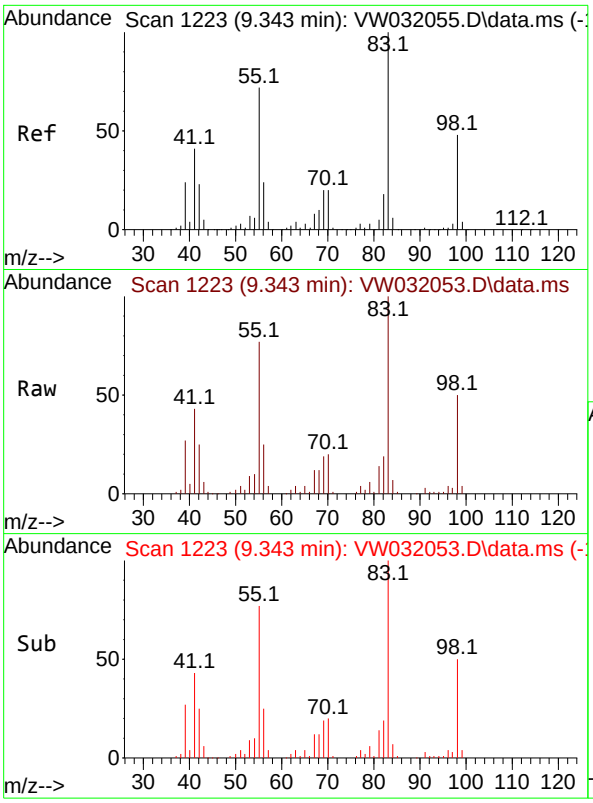




#38
Carbon Tetrachloride
Concen: 10.007 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:117 Resp: 37535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 97.5 | 71.4 | 107.2 |
| 121 | 32.5 | 22.3 | 33.5 |



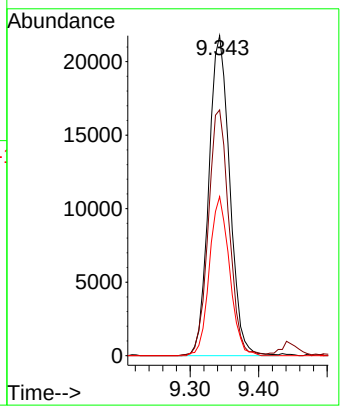


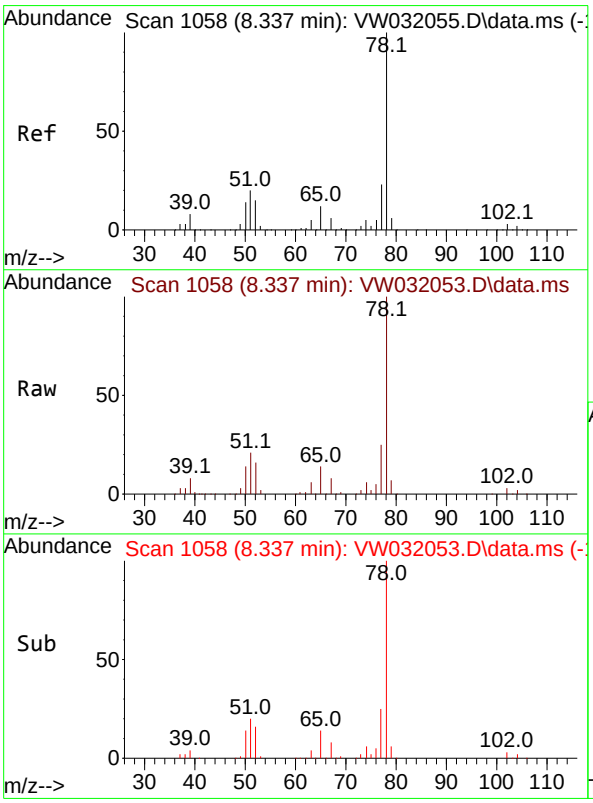

#39
Methylcyclohexane
Concen: 9.731 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion: 83 Resp: 46100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 76.8 | 57.9 | 86.9 |
| 98 | 49.7 | 38.3 | 57.5 |

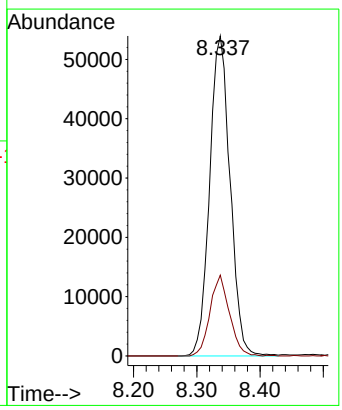


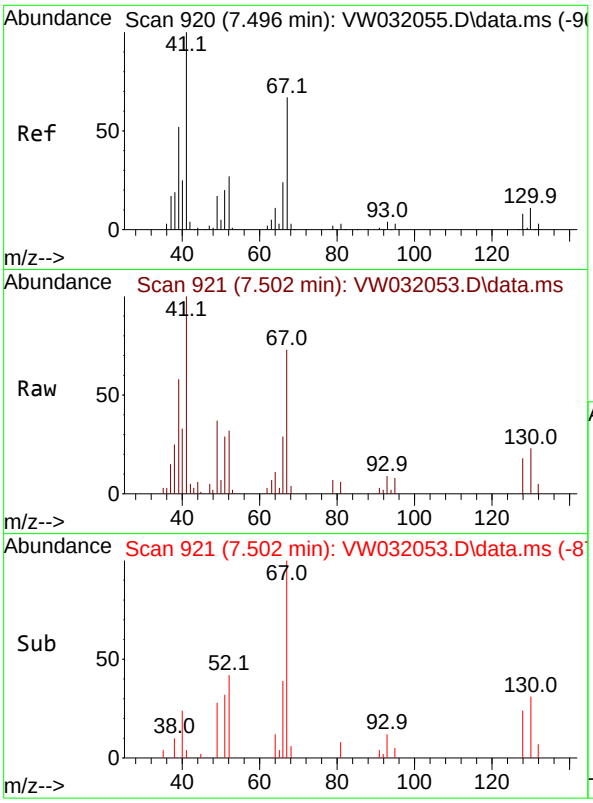




#40
Benzene
Concen: 10.053 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 78 Resp: 121462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 25.3 | 18.4 | 27.6 |



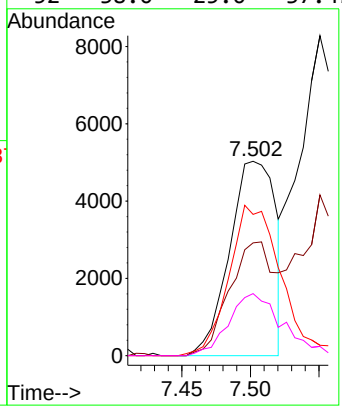


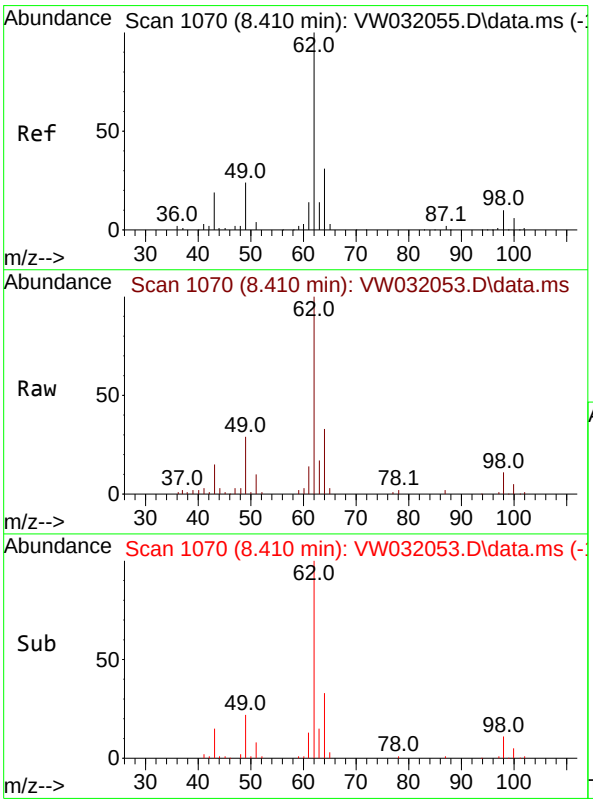

#41
Methacrylonitrile
Concen: 9.035 ug/l
RT: 7.502 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion: 41 Resp: 11729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 57.4 | 42.6 | 63.8 |
| 67 | 87.3 | 61.0 | 91.4 |
| 52 | 38.0 | 25.0 | 37.4# |

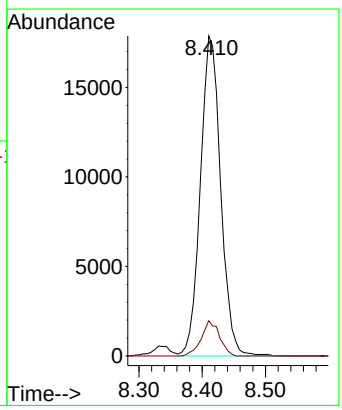


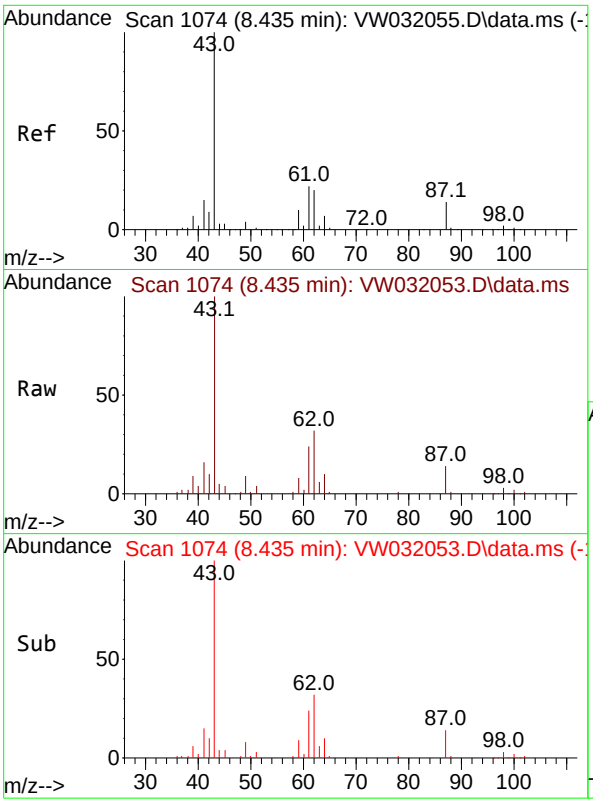




#42
1,2-Dichloroethane
Concen: 10.316 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 62 Resp: 39882

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.9 | 0.0 | 19.8 |



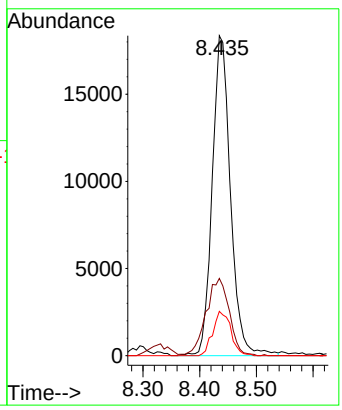


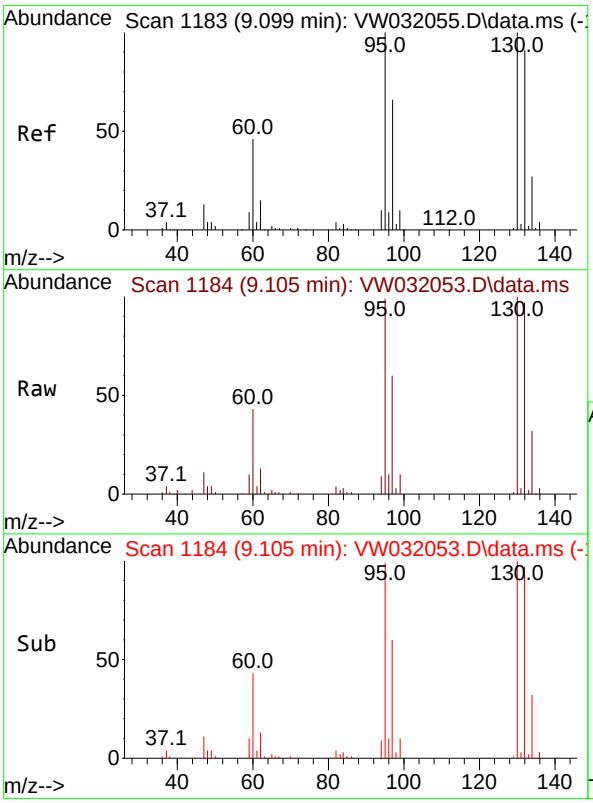

#43
Isopropyl Acetate
Concen: 9.743 ug/l
RT: 8.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion: 43 Resp: 41036

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 30.5 | 23.8 | 35.8 |
| 87 | 13.7 | 11.7 | 17.5 |

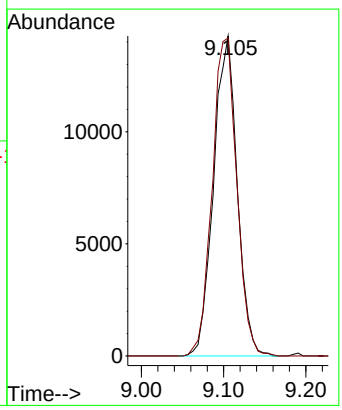


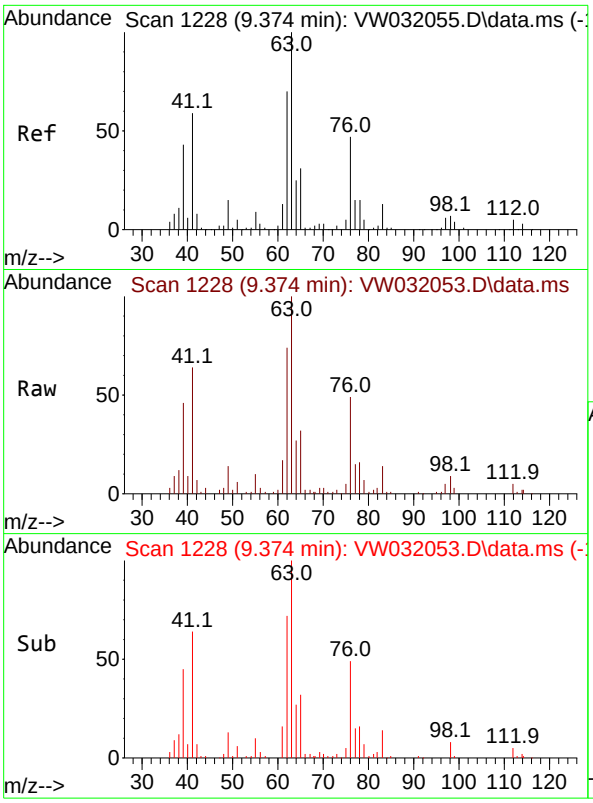




#44
Trichloroethene
Concen: 9.905 ug/l
RT: 9.105 min Scan# 1184
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:130 Resp: 28498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 99.4 | 0.0 | 200.6 |



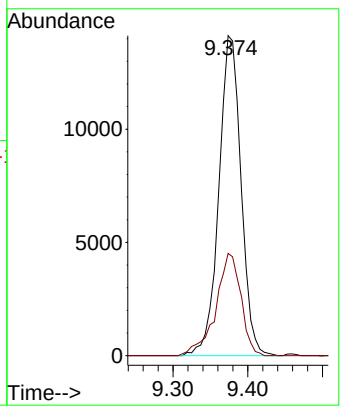


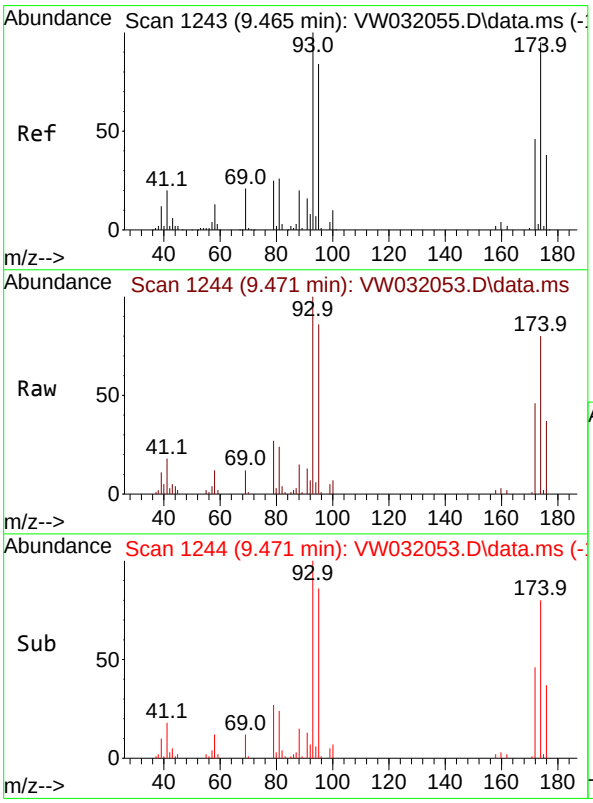

#45
1,2-Dichloropropane
Concen: 10.004 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion: 63 Resp: 29199

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.9 | 24.6 | 36.8 |

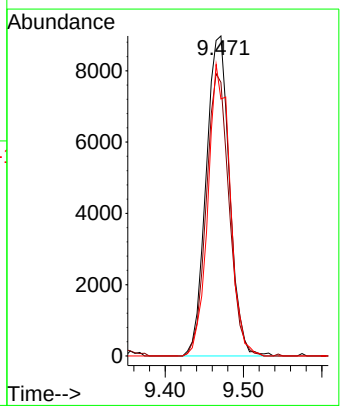


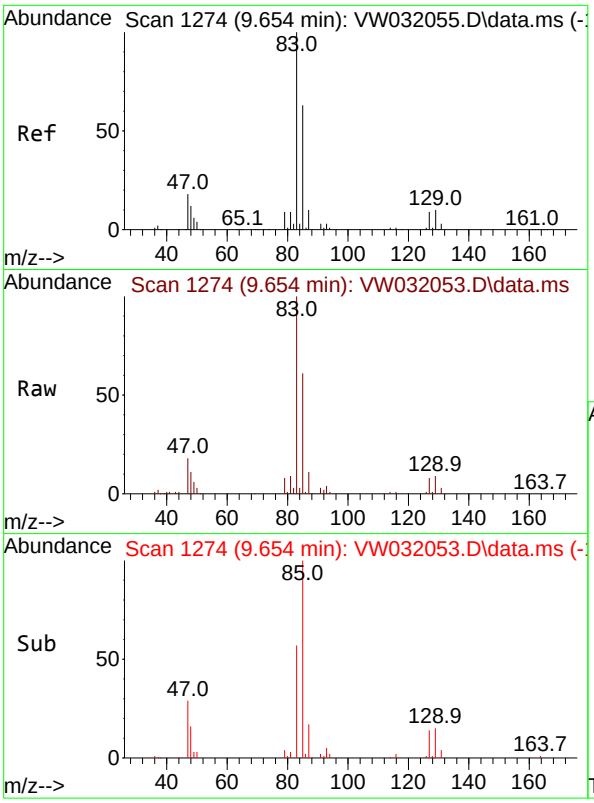




#46
Dibromomethane
Concen: 9.901 ug/l
RT: 9.471 min Scan# 1244
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 93 Resp: 18653

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 85.8 | 65.3 | 97.9 |
| 174 | 85.7 | 68.6 | 102.8 |



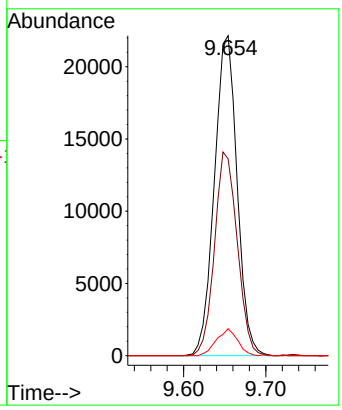


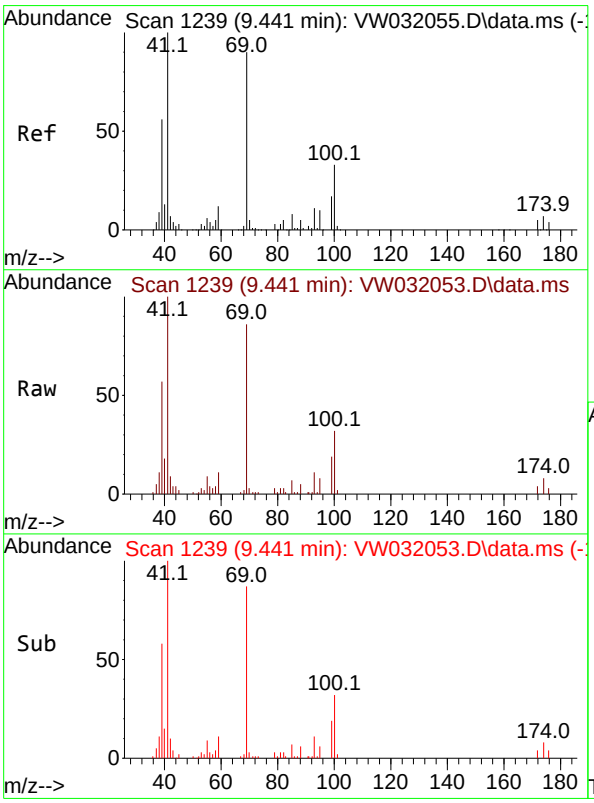

#47
Bromodichloromethane
Concen: 9.818 ug/l
RT: 9.654 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion: 83 Resp: 42618

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 61.5 | 50.6 | 75.8 |
| 127 | 8.5 | 6.9 | 10.3 |

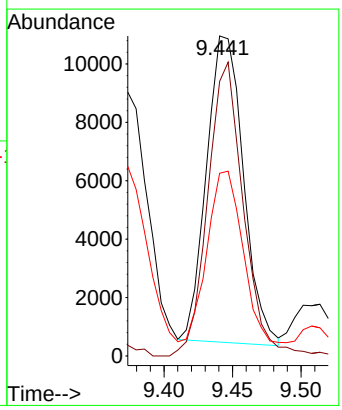


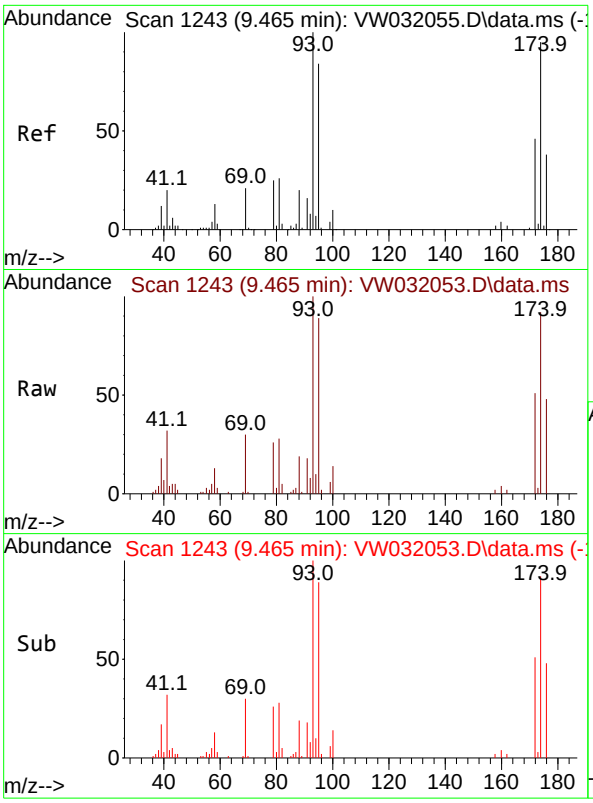




#48
Methyl methacrylate
Concen: 9.666 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 41 Resp: 19654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 92.9 | 73.0 | 109.6 |
| 39 | 55.1 | 45.0 | 67.4 |



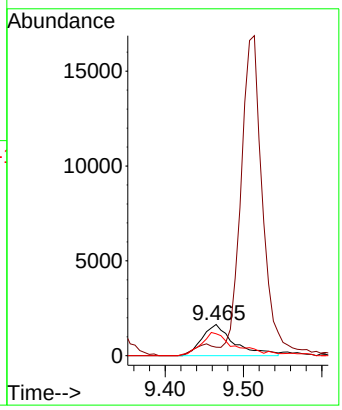


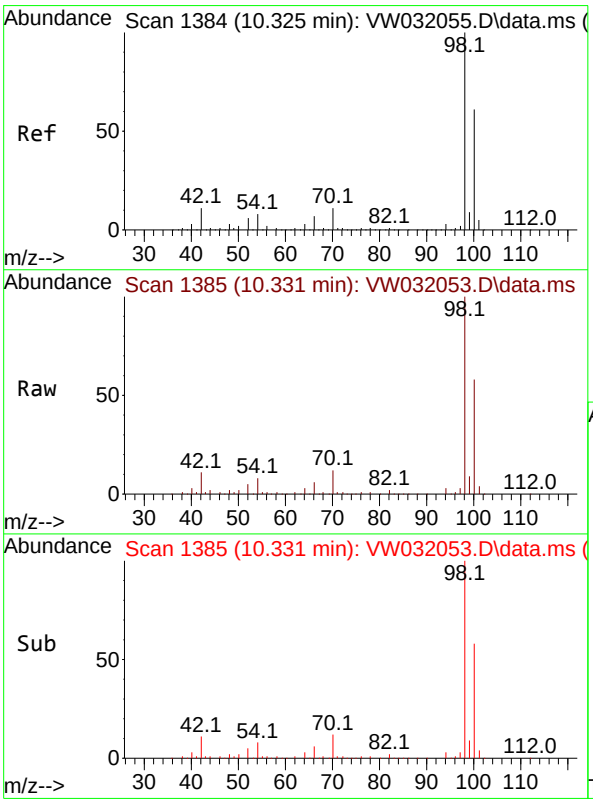

#49
1,4-Dioxane
Concen: 192.302 ug/l
RT: 9.465 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion: 88 Resp: 4684

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 27.6 | 20.6 | 30.8 |
| 58 | 75.1 | 60.4 | 90.6 |

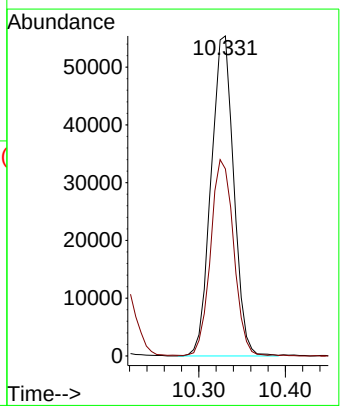


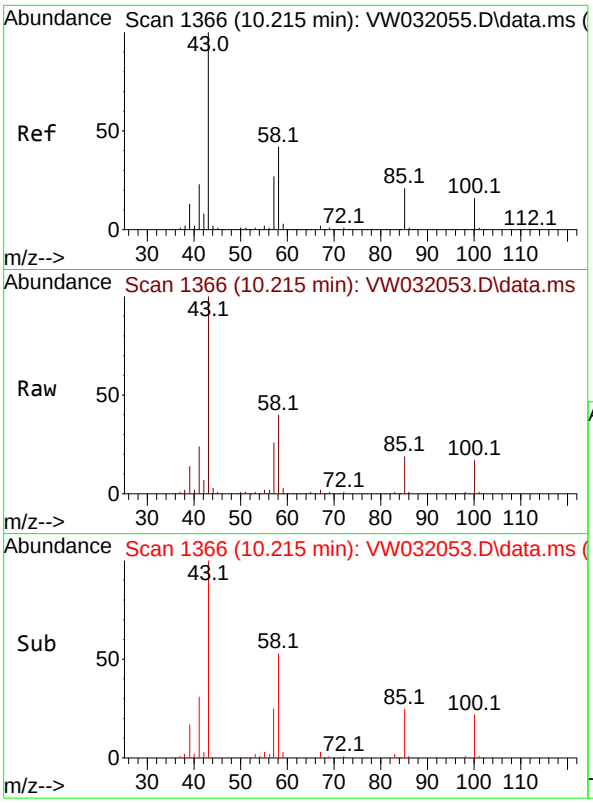




#50
Toluene-d8
Concen: 9.875 ug/l
RT: 10.331 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 98 Resp: 100702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 62.7 | 51.1 | 76.7 |



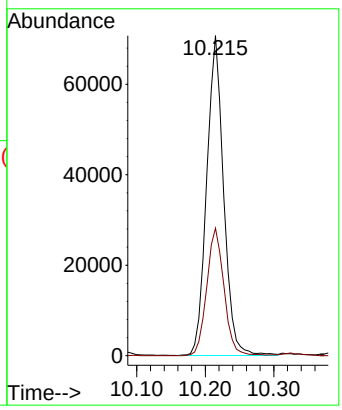


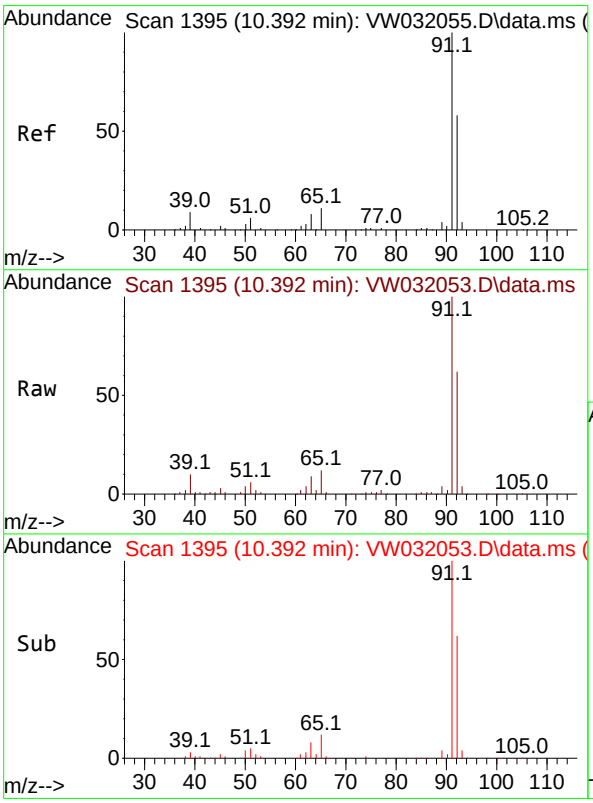

#51
4-Methyl-2-Pentanone
Concen: 51.075 ug/l
RT: 10.215 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion: 43 Resp: 121419

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 40.7 | 33.1 | 49.7 |

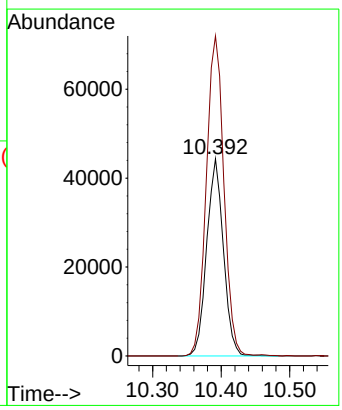


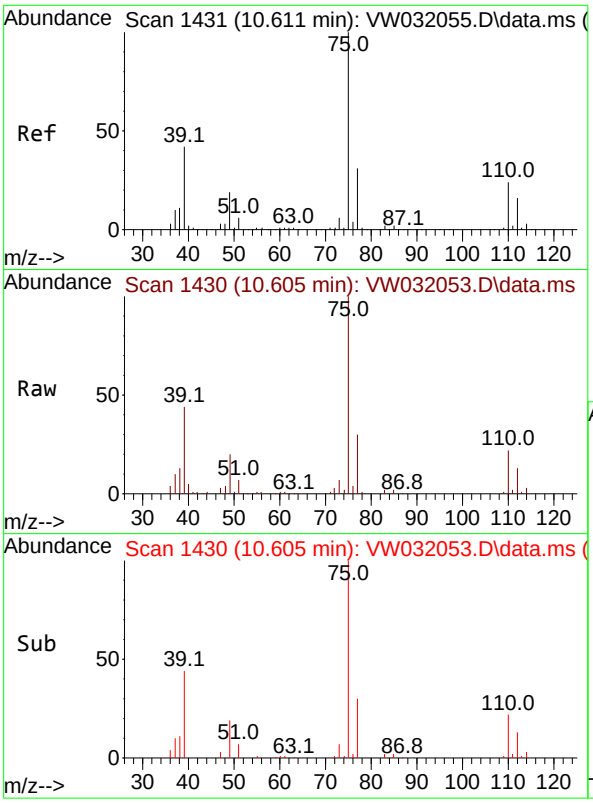




#52
Toluene
Concen: 9.888 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 92 Resp: 75250

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 170.3 | 136.3 | 204.5 |



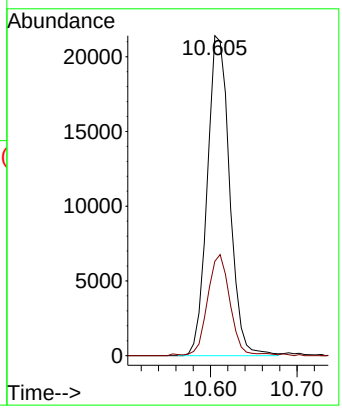


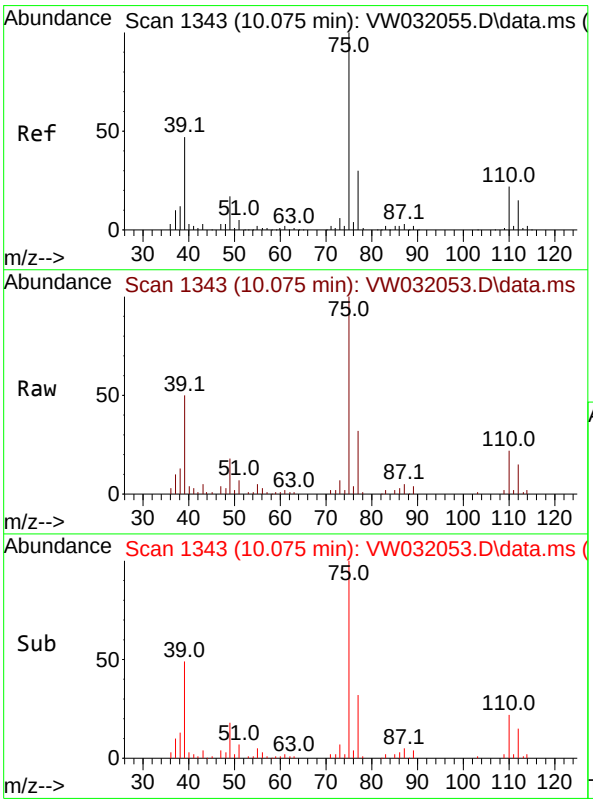

#53
t-1,3-Dichloropropene
Concen: 9.441 ug/l
RT: 10.605 min Scan# 14
Delta R.T. -0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion: 75 Resp: 38397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 29.2 | 25.0 | 37.6 |

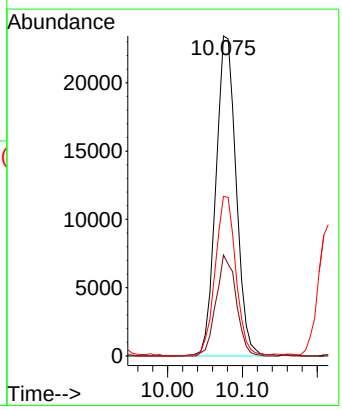


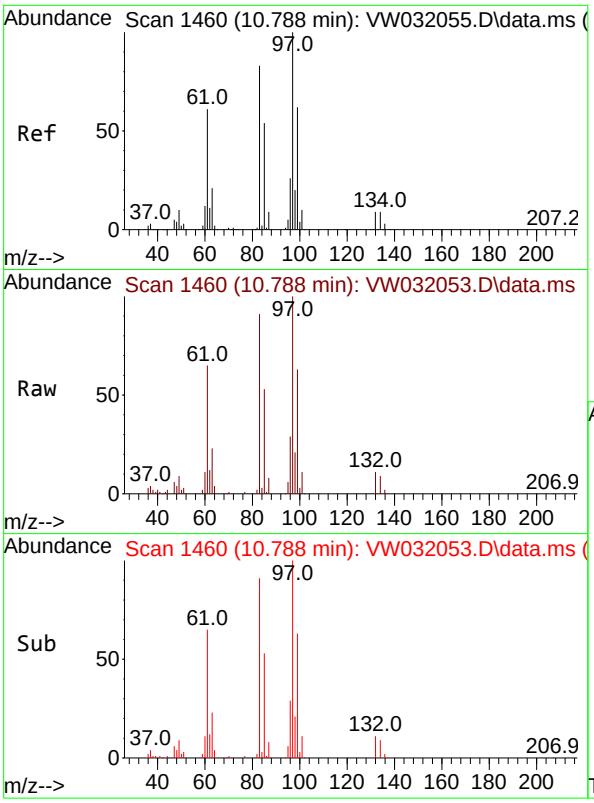




#54
cis-1,3-Dichloropropene
Concen: 9.543 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 75 Resp: 44031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.6 | 24.0 | 36.0 |
| 39 | 49.9 | 37.8 | 56.8 |



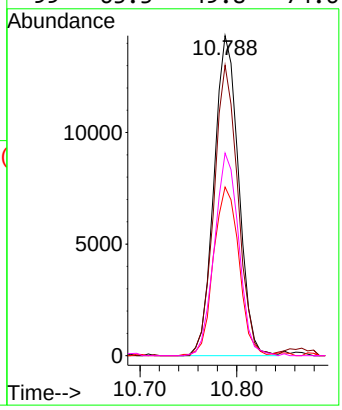


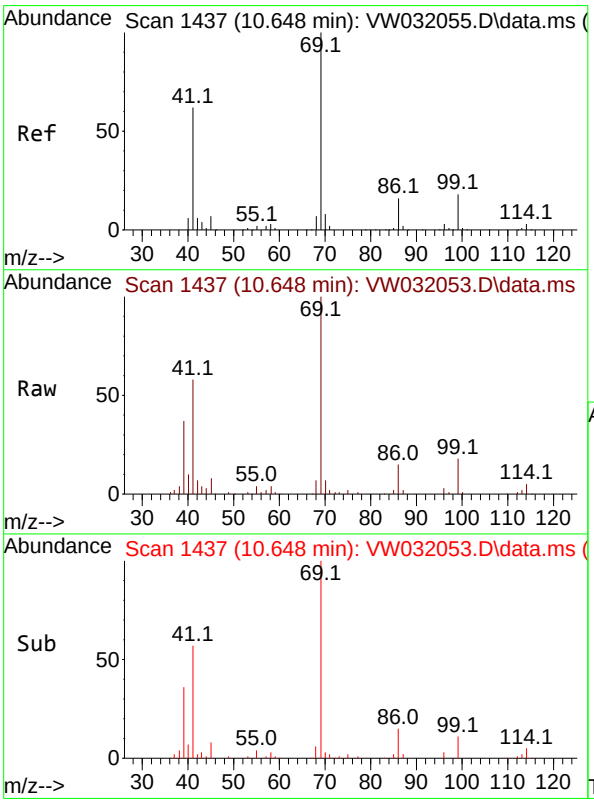

#55
1,1,2-Trichloroethane
Concen: 10.097 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion: 97 Resp: 25277

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 90.7 | 66.4 | 99.6 |
| 85 | 52.7 | 43.1 | 64.7 |
| 99 | 63.3 | 49.8 | 74.6 |

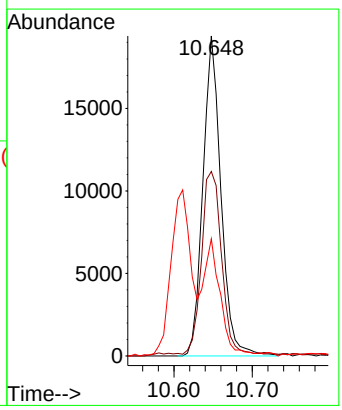


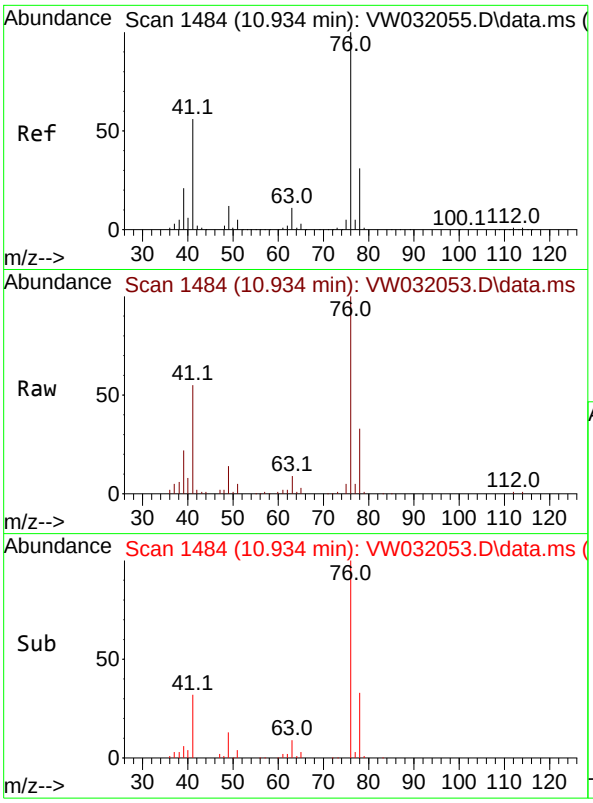




#56
Ethyl methacrylate
Concen: 9.260 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 69 Resp: 31022

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 62.3 | 51.2 | 76.8 |
| 39 | 35.0 | 25.4 | 38.0 |



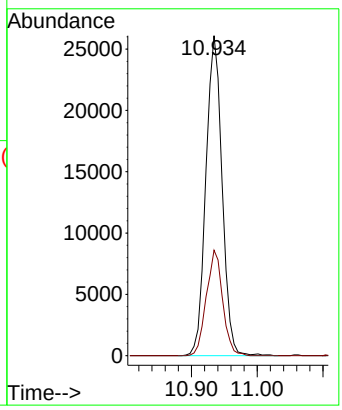


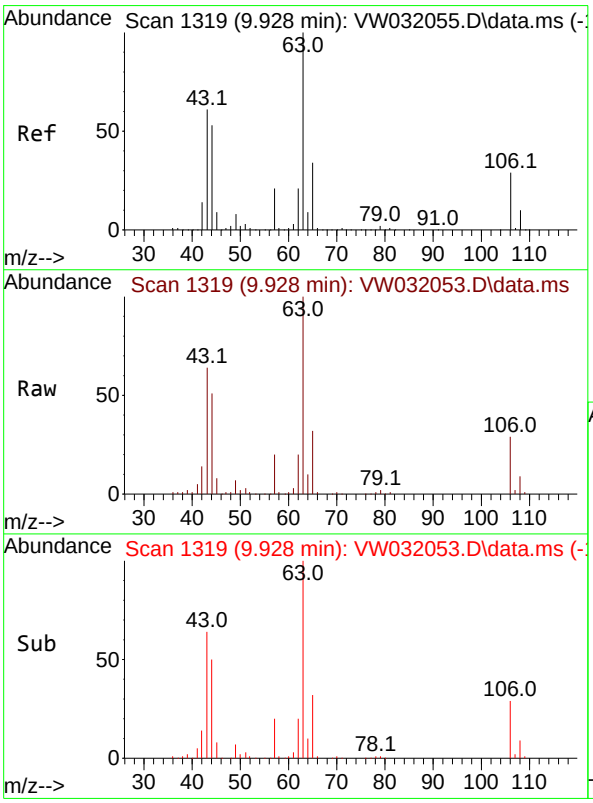

#57
1,3-Dichloropropane
Concen: 10.254 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion: 76 Resp: 44743

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 33.2 | 25.8 | 38.6 |

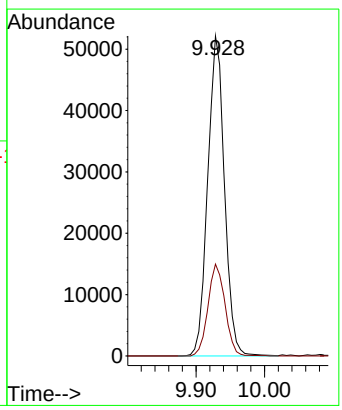


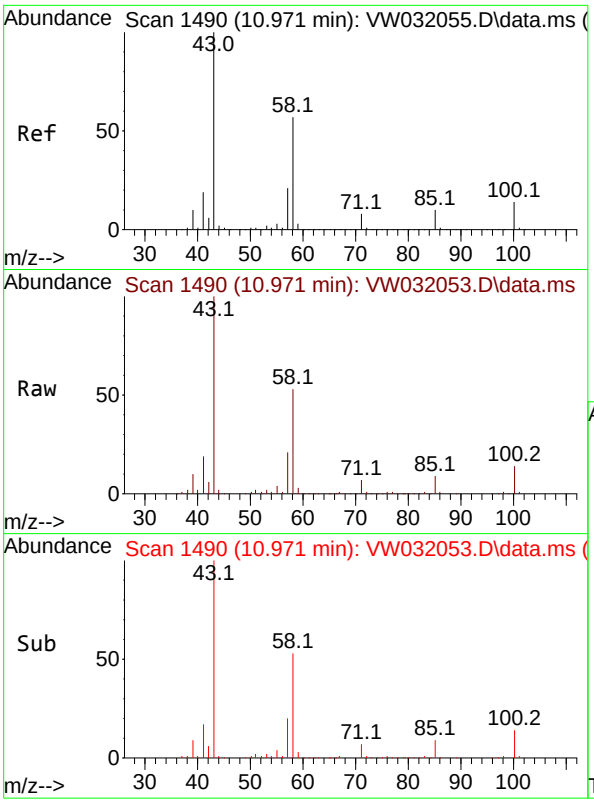




#58
2-Chloroethyl Vinyl ether
Concen: 47.830 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 63 Resp: 88627

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 29.2 | 23.5 | 35.3 |



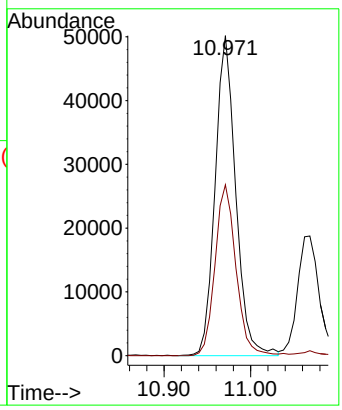


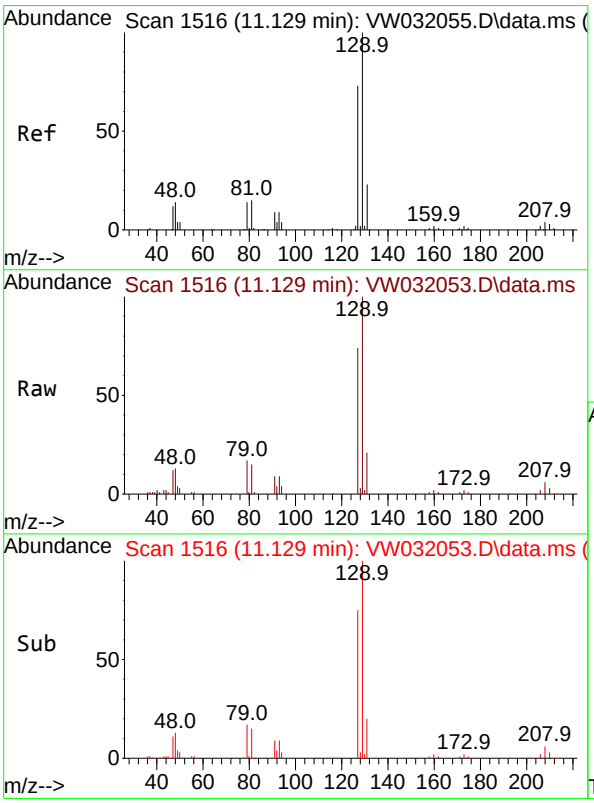

#59
2-Hexanone
Concen: 50.310 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion: 43 Resp: 82830

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 54.2 | 28.3 | 85.0 |

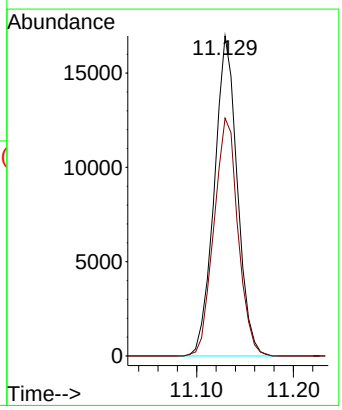


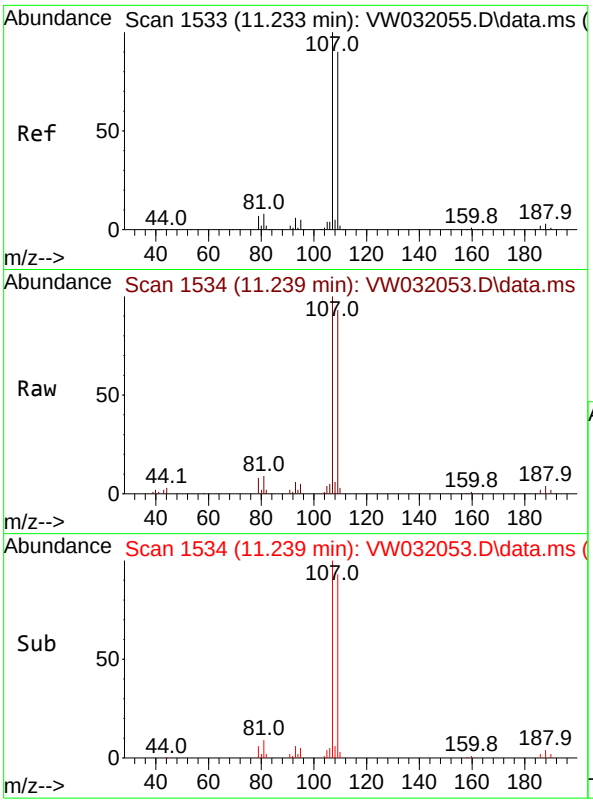




#60
Dibromochloromethane
Concen: 9.776 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:129 Resp: 27954

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.7 | 39.0 | 116.9 |



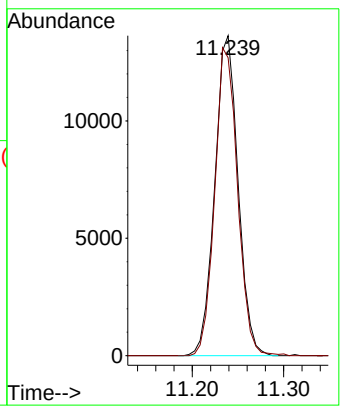


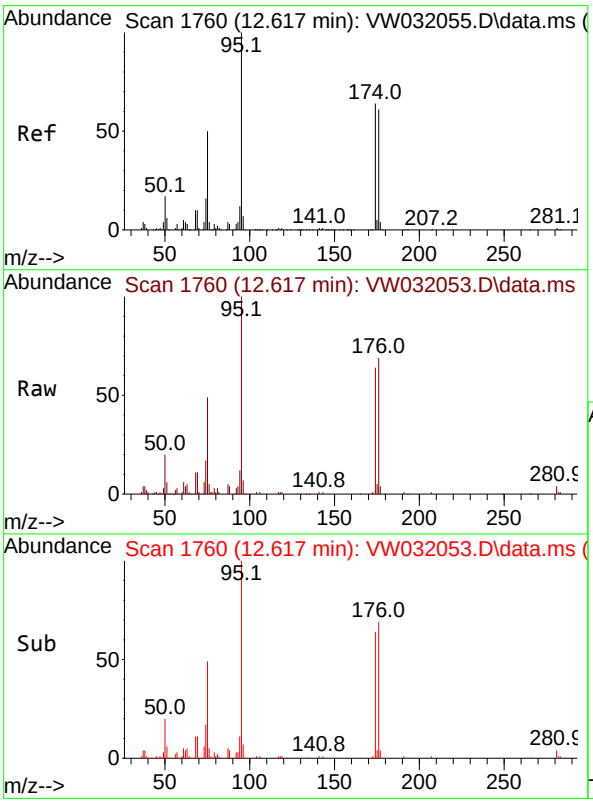

#61
1,2-Dibromoethane
Concen: 9.926 ug/l
RT: 11.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion:107 Resp: 24146

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.2 | 74.2 | 111.4 |

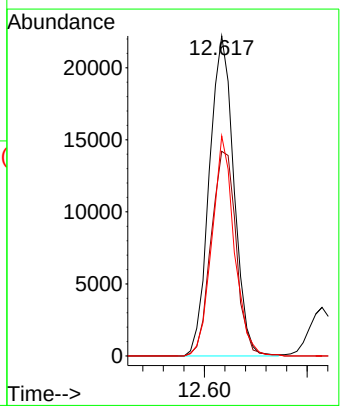


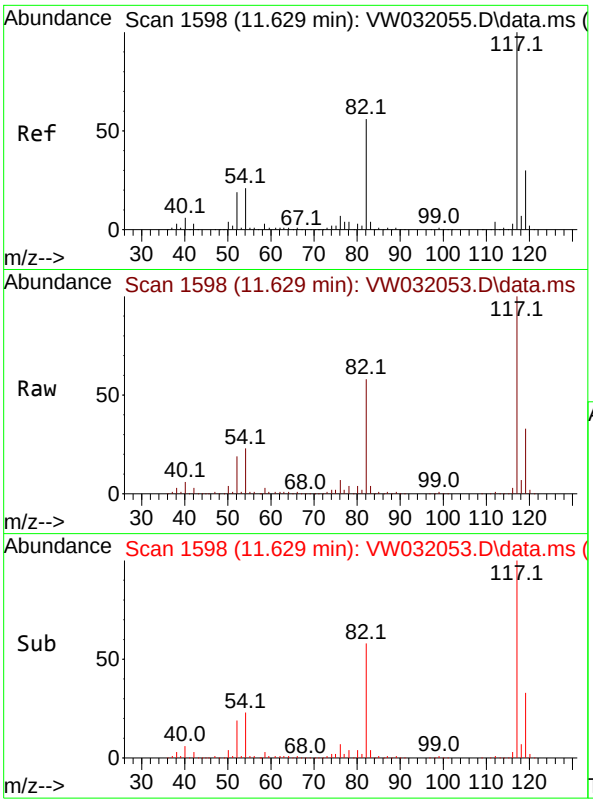




#62
4-Bromofluorobenzene
Concen: 9.778 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 95 Resp: 36748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 65.3 | 0.0 | 129.0 |
| 176 | 62.4 | 0.0 | 124.6 |



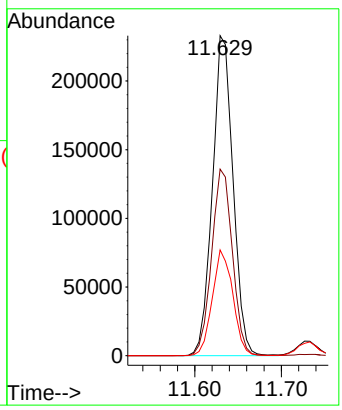


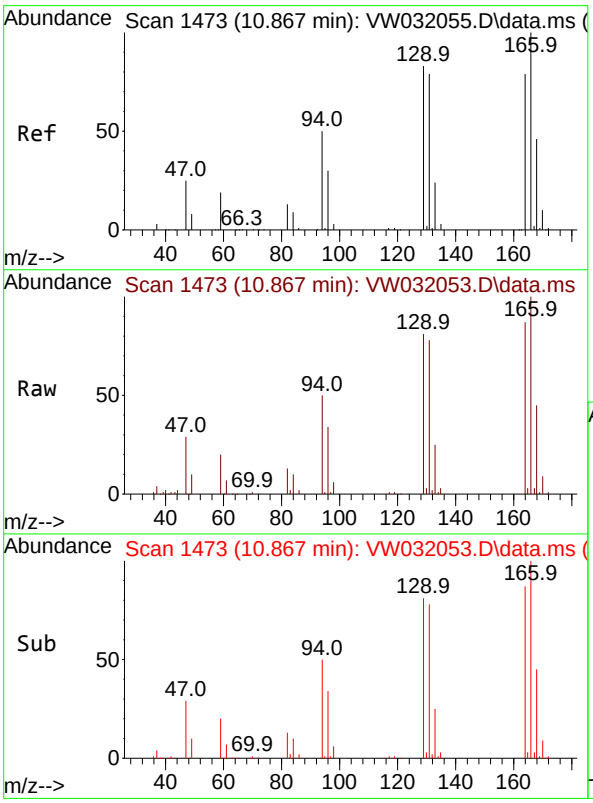

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion:117 Resp: 385631

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 58.3 | 45.0 | 67.4 |
| 119 | 33.0 | 24.2 | 36.4 |

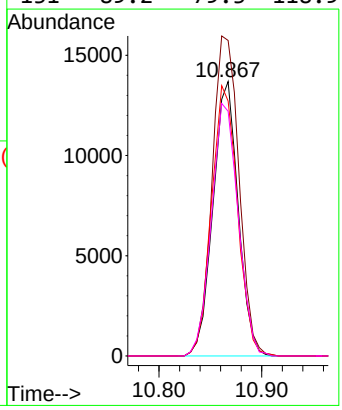


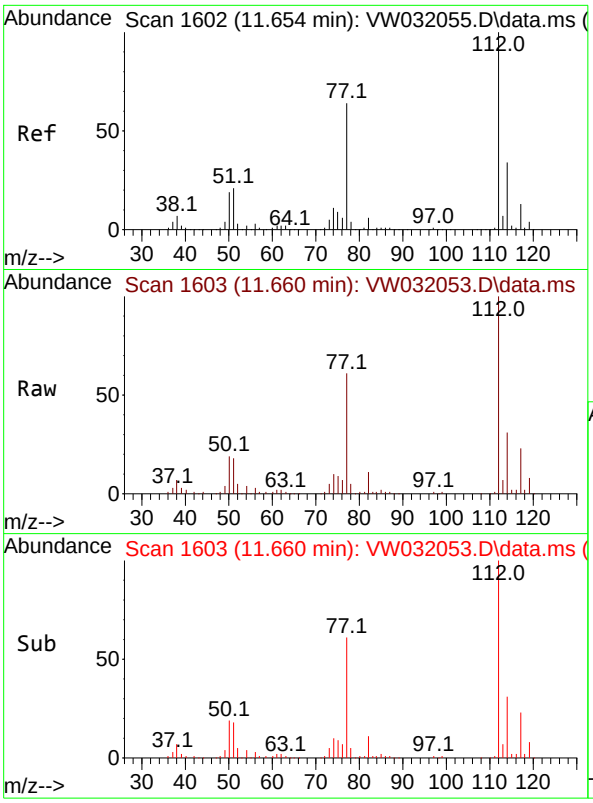




#64
Tetrachloroethene
Concen: 10.431 ug/l
RT: 10.867 min Scan# 1473
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:164 Resp: 23235

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 115.0 | 100.9 | 151.3 |
| 129 | 92.9 | 83.6 | 125.4 |
| 131 | 89.2 | 79.3 | 118.9 |



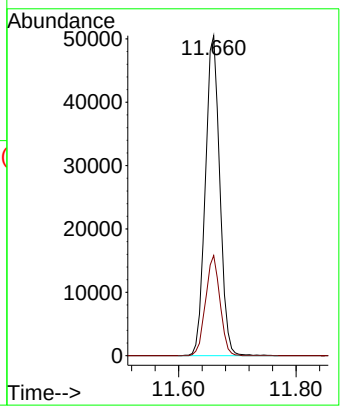


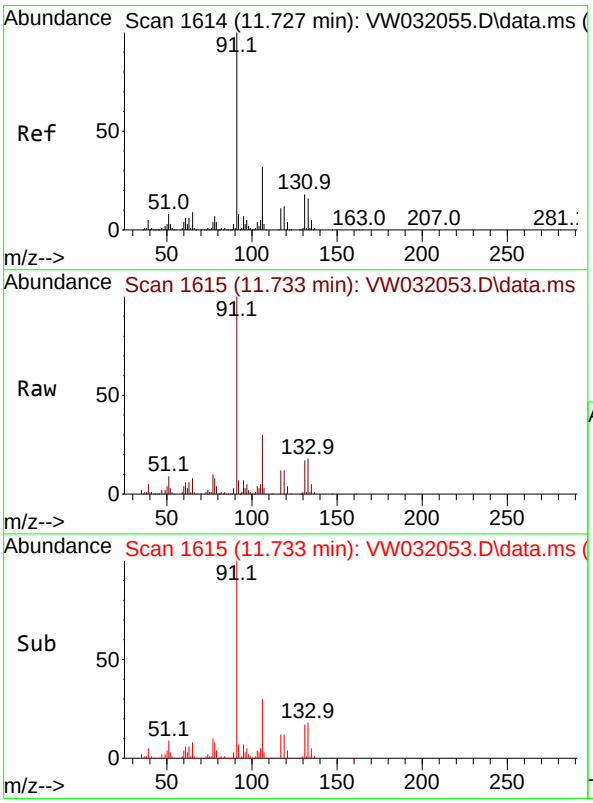

#65
Chlorobenzene
Concen: 10.257 ug/l
RT: 11.660 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion:112 Resp: 86096

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.3 | 26.9 | 40.3 |

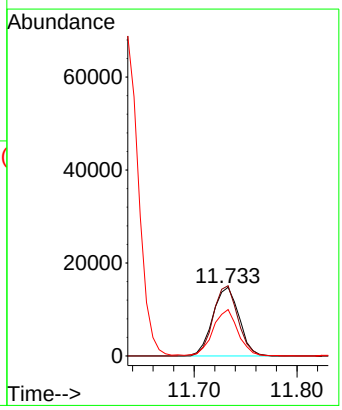


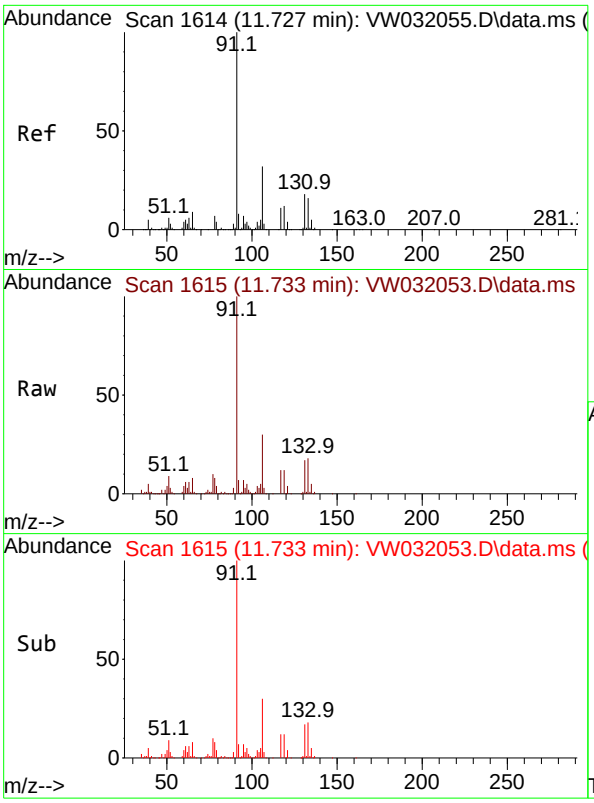




#66
1,1,1,2-Tetrachloroethane
Concen: 10.037 ug/l
RT: 11.733 min Scan# 1615
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:131 Resp: 26286

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.6 | 47.3 | 142.0 |
| 119 | 64.5 | 34.5 | 103.5 |



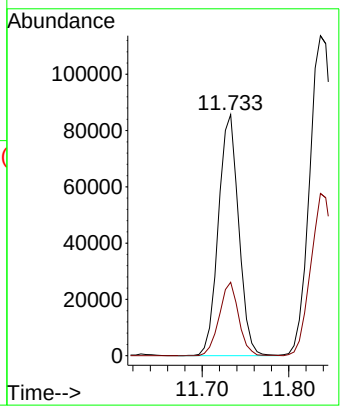


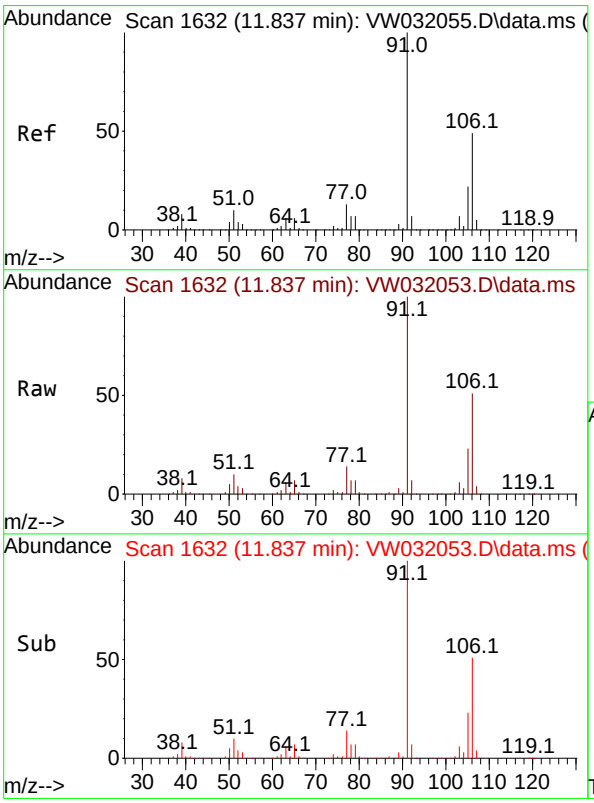

#67
Ethyl Benzene
Concen: 9.794 ug/l
RT: 11.733 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion: 91 Resp: 139254

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.5 | 25.4 | 38.0 |

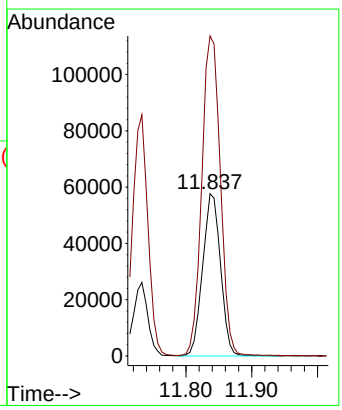


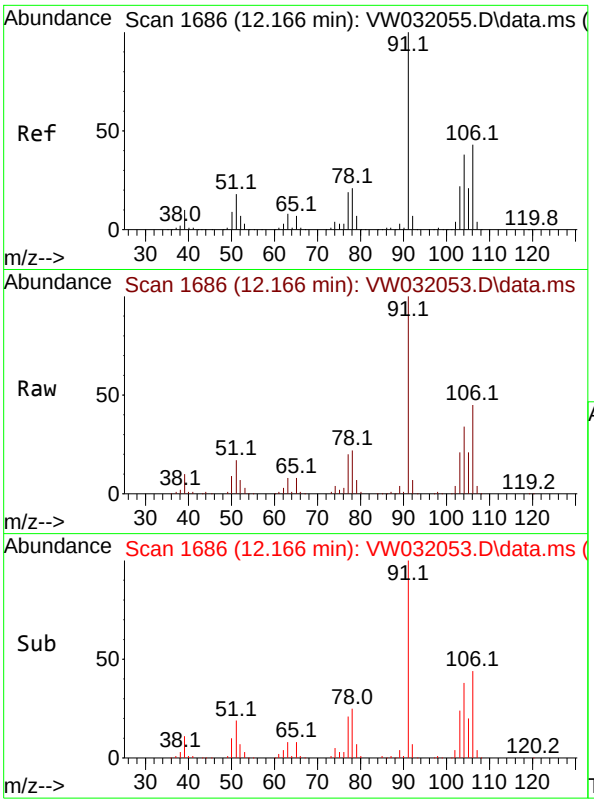




#68
m/p-Xylenes
Concen: 19.866 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:106 Resp: 108990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 205.0 | 162.2 | 243.2 |



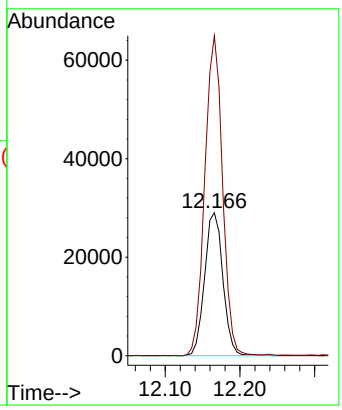


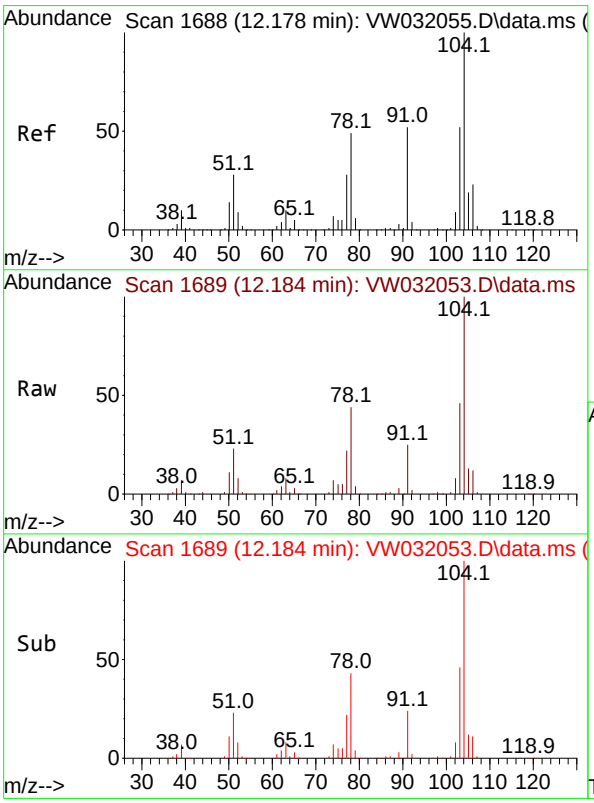

#69
o-Xylene
Concen: 9.714 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion:106 Resp: 49259

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 216.8 | 110.8 | 332.3 |

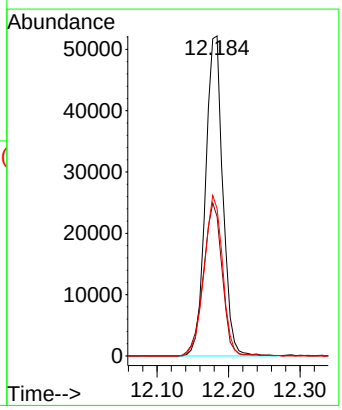


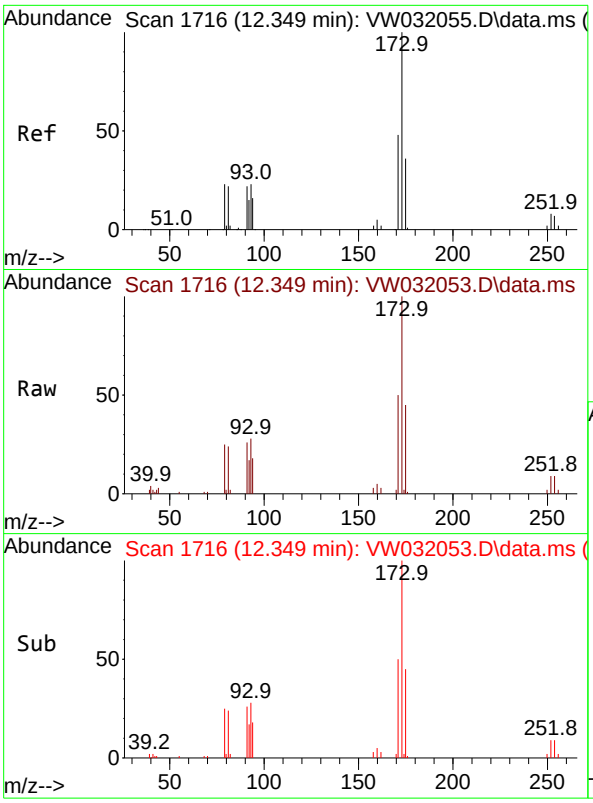




#70
Styrene
Concen: 9.719 ug/l
RT: 12.184 min Scan# 1689
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:104 Resp: 87542

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 52.1 | 41.2 | 61.8 |
| 103 | 53.8 | 43.8 | 65.8 |



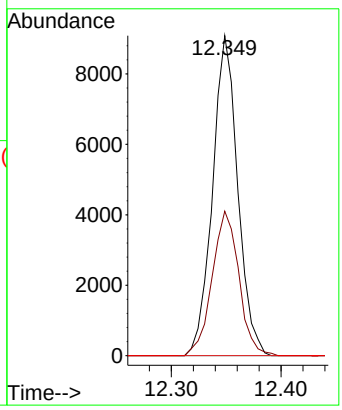


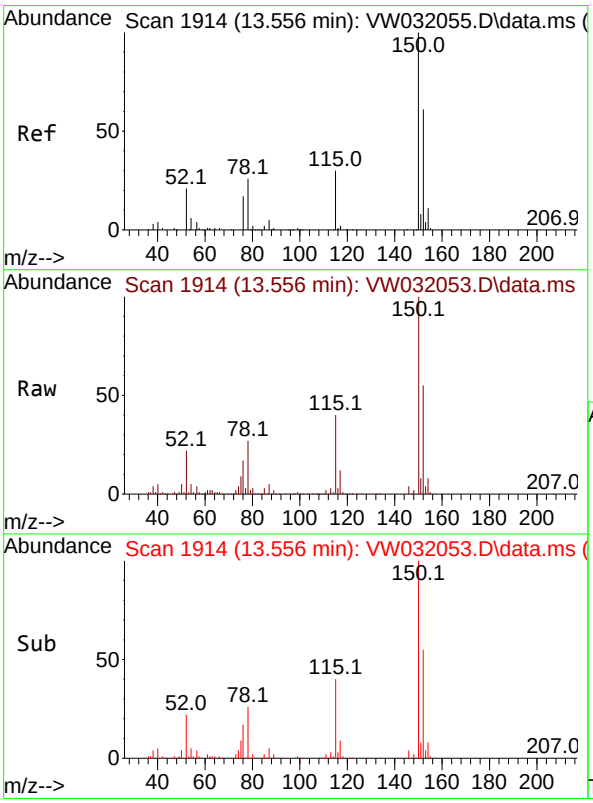

#71
Bromoform
Concen: 9.711 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion:173 Resp: 14547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.8 | 22.9 | 68.7 |
| 254 | 0.0 | 0.0 | 0.0 |

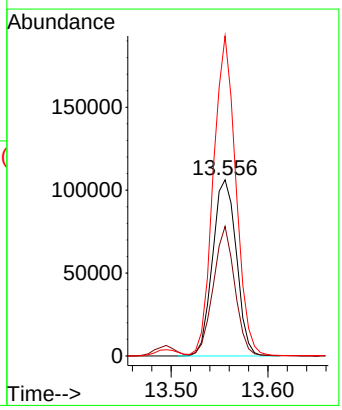


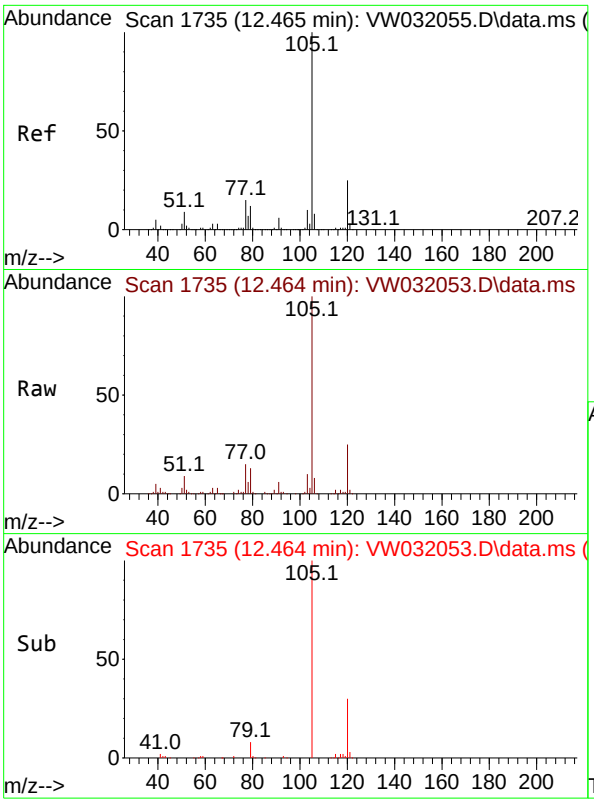




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:152 Resp: 181281

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 66.5 | 32.6 | 97.8 |
| 150 | 171.8 | 0.0 | 359.4 |



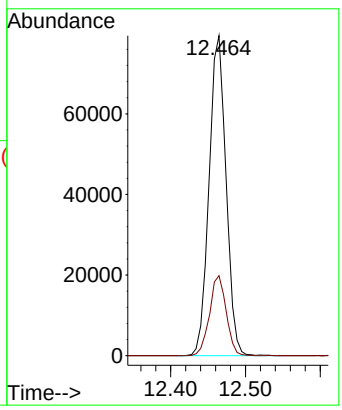


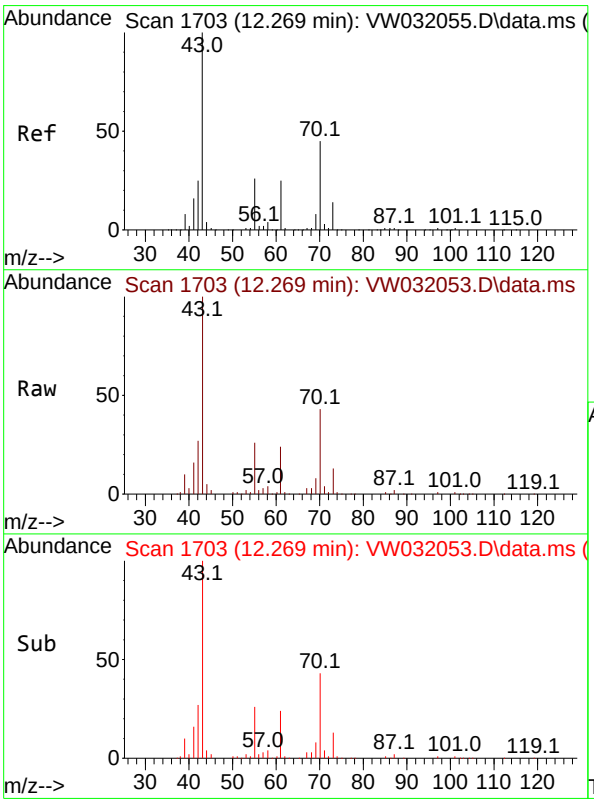

#73
Isopropylbenzene
Concen: 9.886 ug/l
RT: 12.464 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion:105 Resp: 125246

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 24.6 | 12.8 | 38.4 |

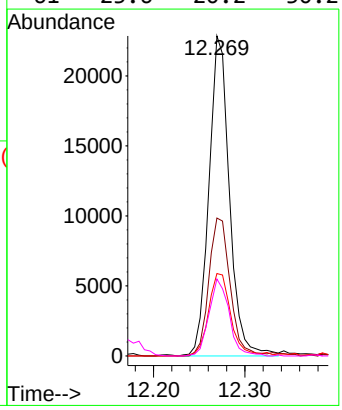


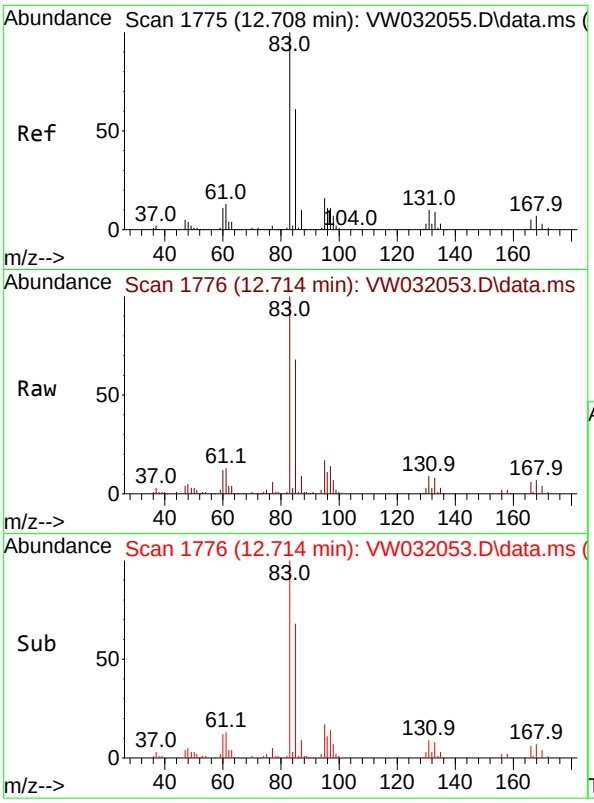




#74
N-amyl acetate
Concen: 9.804 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 43 Resp: 35636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 44.7 | 37.0 | 55.4 |
| 55 | 28.3 | 21.1 | 31.7 |
| 61 | 23.6 | 20.2 | 30.2 |



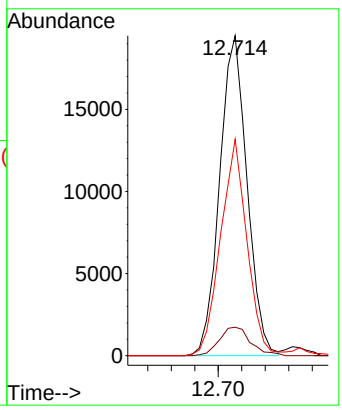


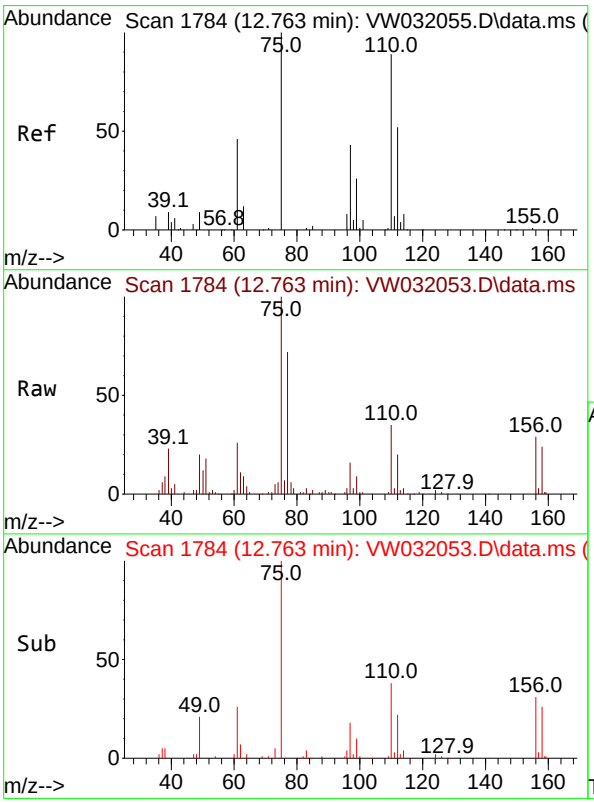

#75
1,1,2,2-Tetrachloroethane
Concen: 10.499 ug/l
RT: 12.714 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion: 83 Resp: 31581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.1 | 5.1 | 15.4 |
| 85 | 65.0 | 32.2 | 96.6 |

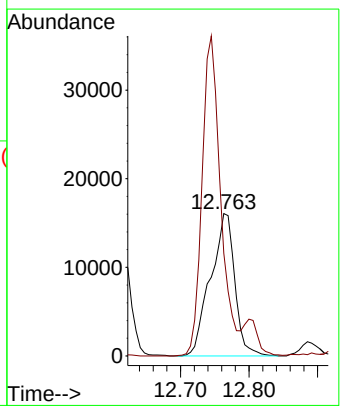


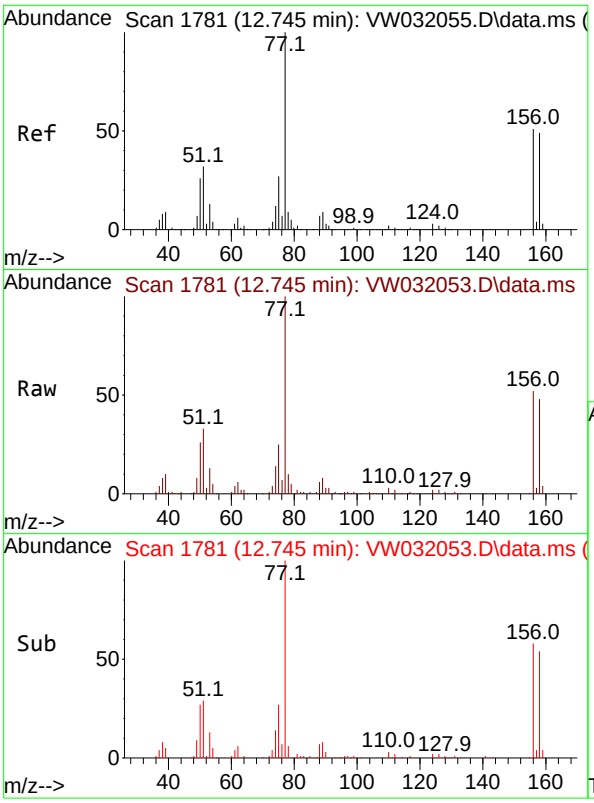




#76
1,2,3-Trichloropropane
Concen: 14.180 ug/l
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 75 Resp: 39515

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 173.7 | 123.5 | 370.5 |



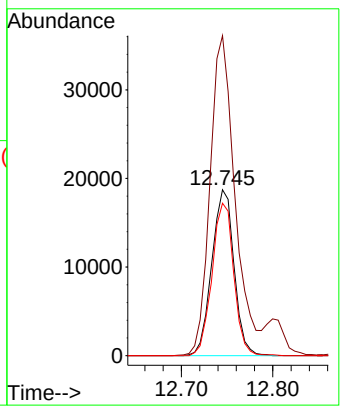


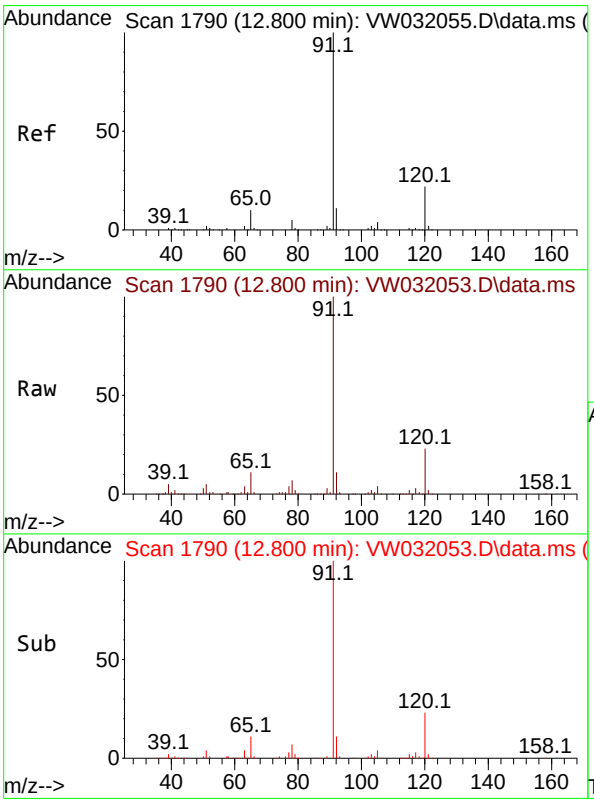

#77
Bromobenzene
Concen: 10.462 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion:156 Resp: 31656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 216.8 | 108.7 | 326.3 |
| 158 | 90.0 | 48.3 | 144.9 |

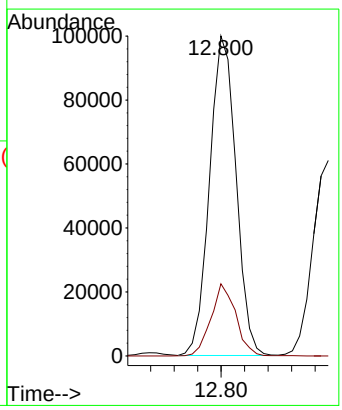


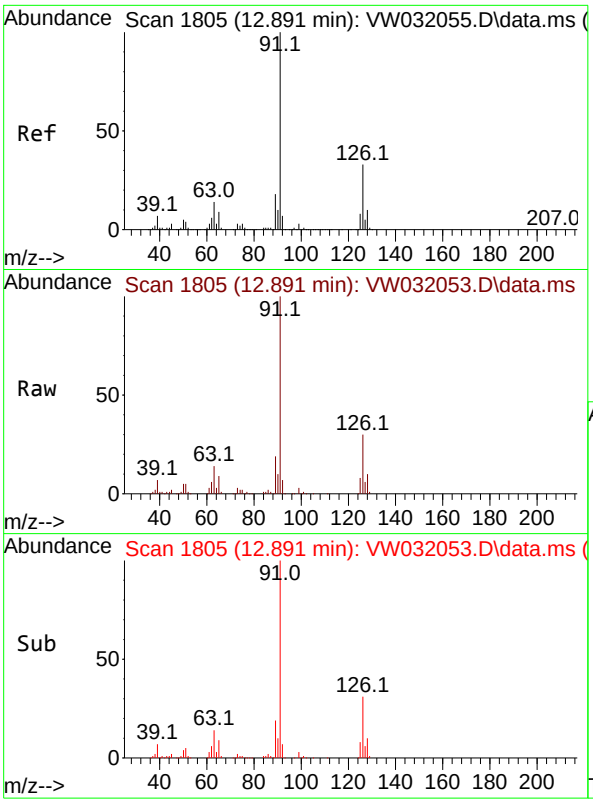




#78
n-propylbenzene
Concen: 10.019 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 91 Resp: 156266

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 21.1 | 11.1 | 33.3 |



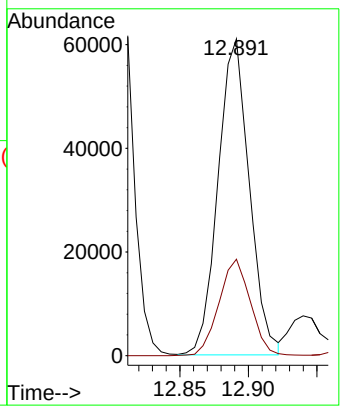


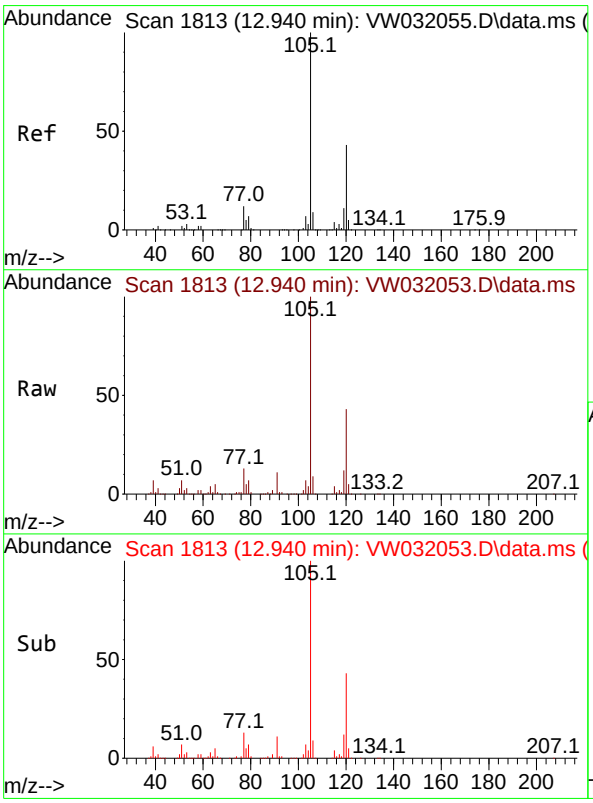

#79
2-Chlorotoluene
Concen: 10.071 ug/l
RT: 12.891 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion: 91 Resp: 96942

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 30.8 | 15.9 | 47.7 |

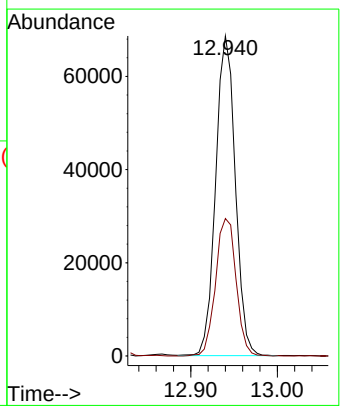


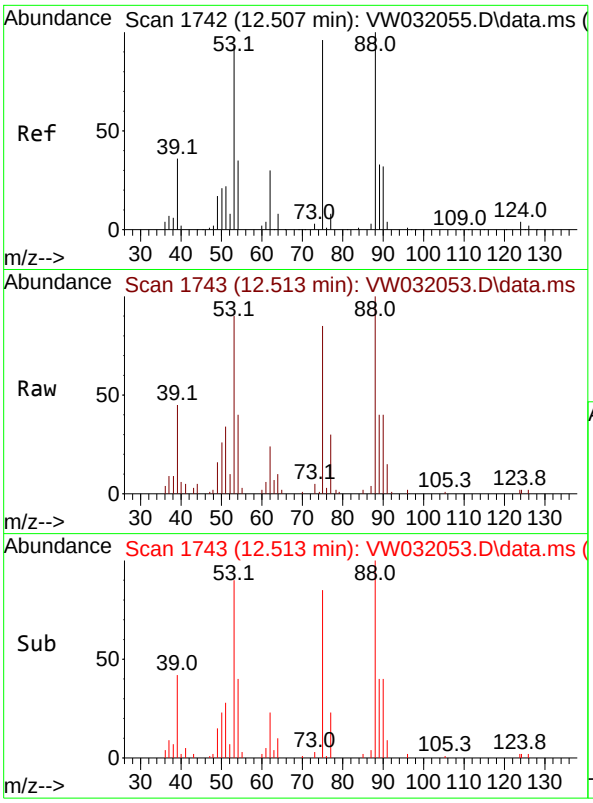




#80
1,3,5-Trimethylbenzene
Concen: 10.053 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:105 Resp: 108123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.0 | 23.4 | 70.0 |



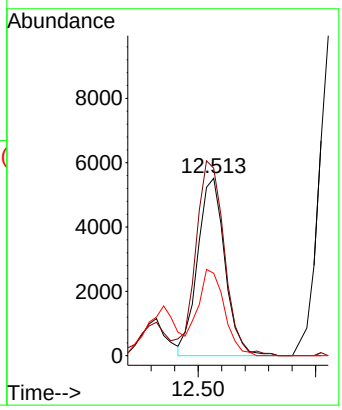


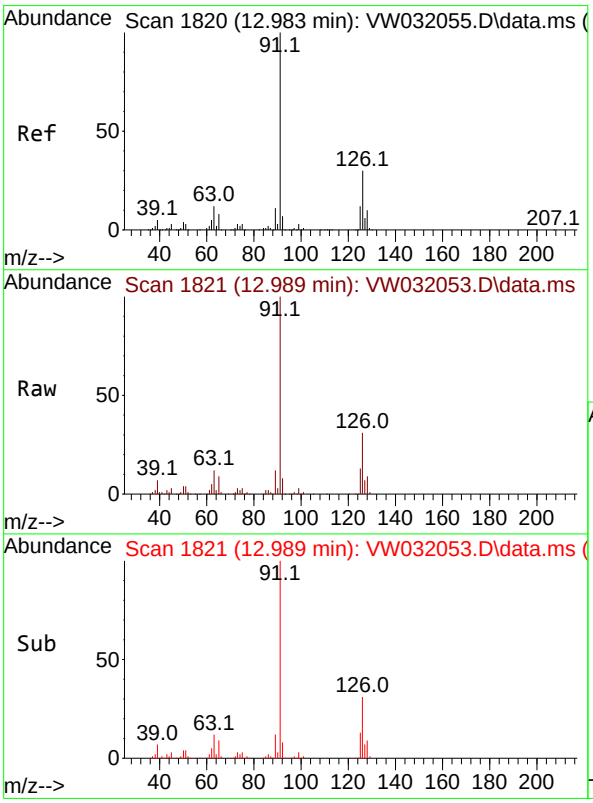

#81
trans-1,4-Dichloro-2-butene
Concen: 9.403 ug/l
RT: 12.513 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion: 75 Resp: 8936

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 115.3 | 81.0 | 121.6 |
| 89 | 47.3 | 37.3 | 55.9 |

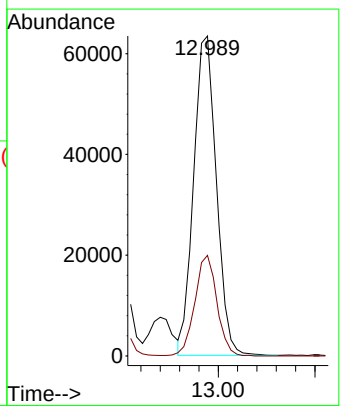


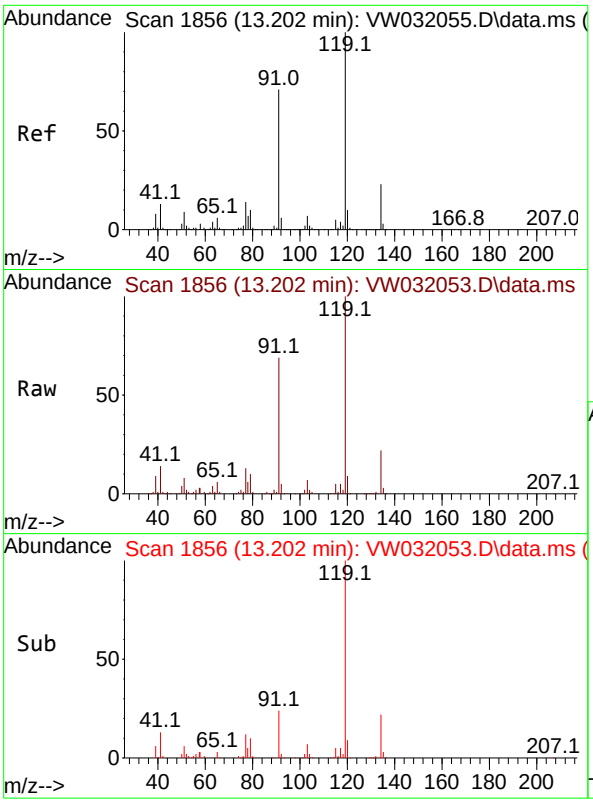




#82
4-Chlorotoluene
Concen: 10.103 ug/l
RT: 12.989 min Scan# 1821
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 91 Resp: 103329

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 30.8 | 15.5 | 46.5 |



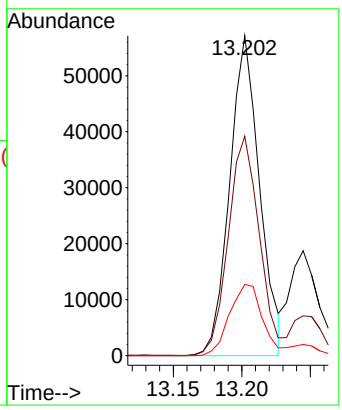


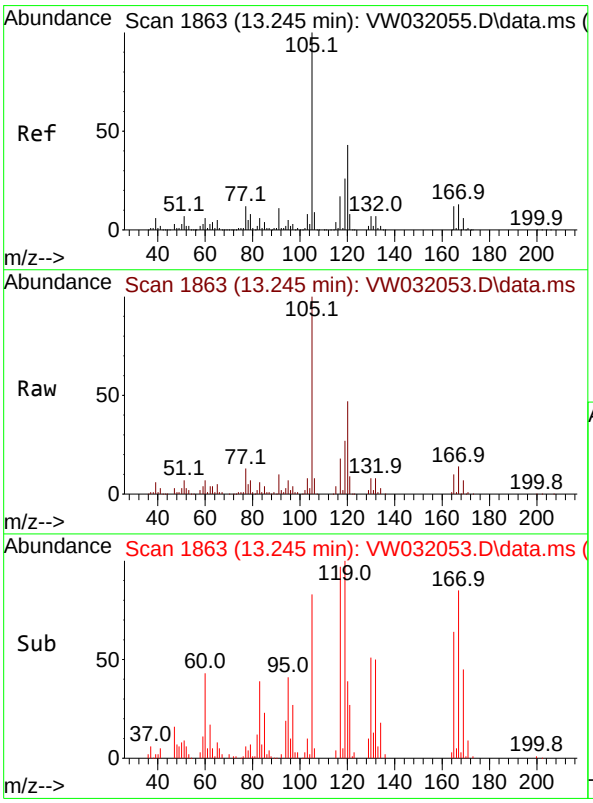

#83
tert-Butylbenzene
Concen: 9.729 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion:119 Resp: 86848

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 70.7 | 35.3 | 105.9 |
| 134 | 24.8 | 12.1 | 36.3 |

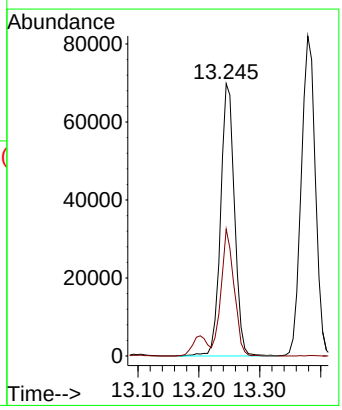


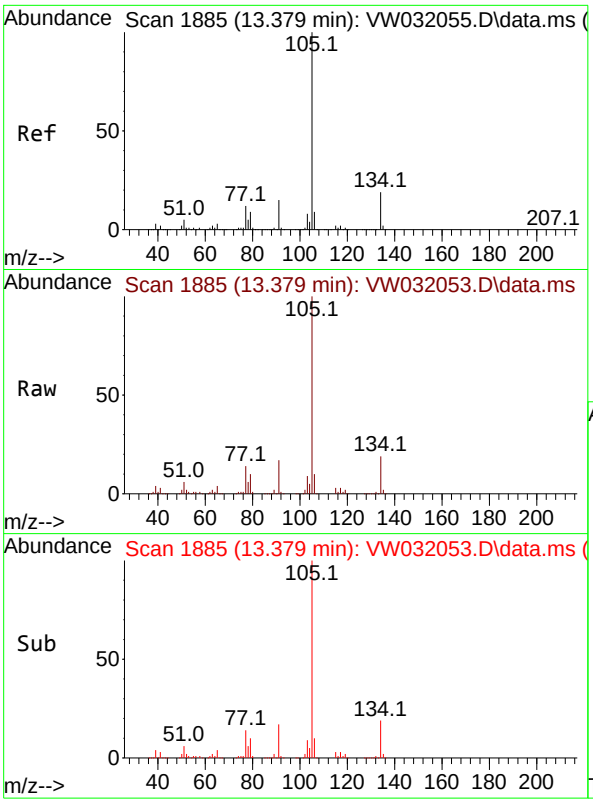




#84
1,2,4-Trimethylbenzene
Concen: 10.110 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:105 Resp: 110697

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.5 | 21.6 | 64.8 |



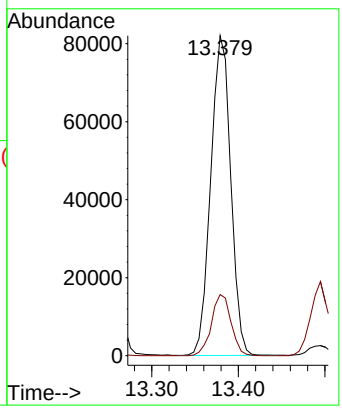


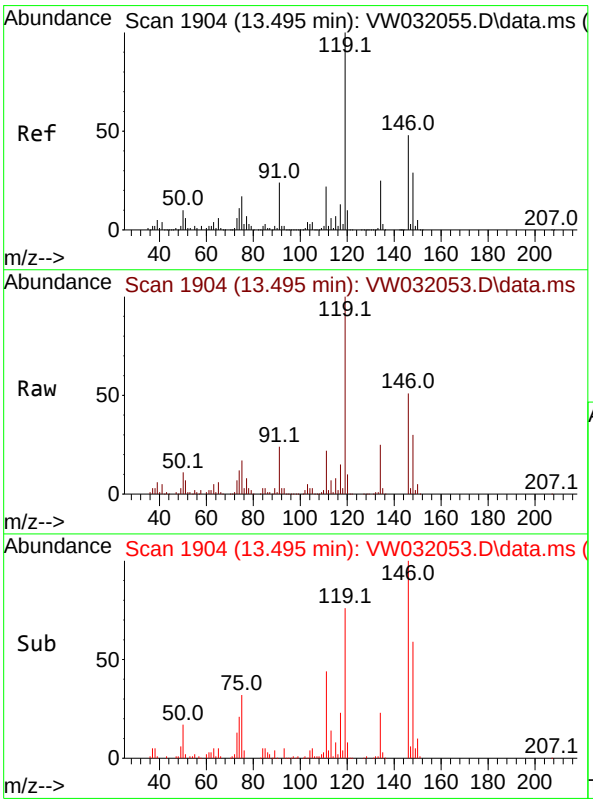

#85
sec-Butylbenzene
Concen: 9.756 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion:105 Resp: 131663

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 18.7 | 9.9 | 29.7 |

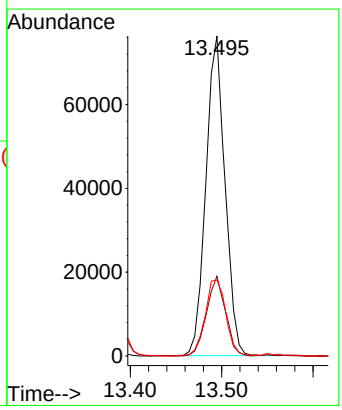


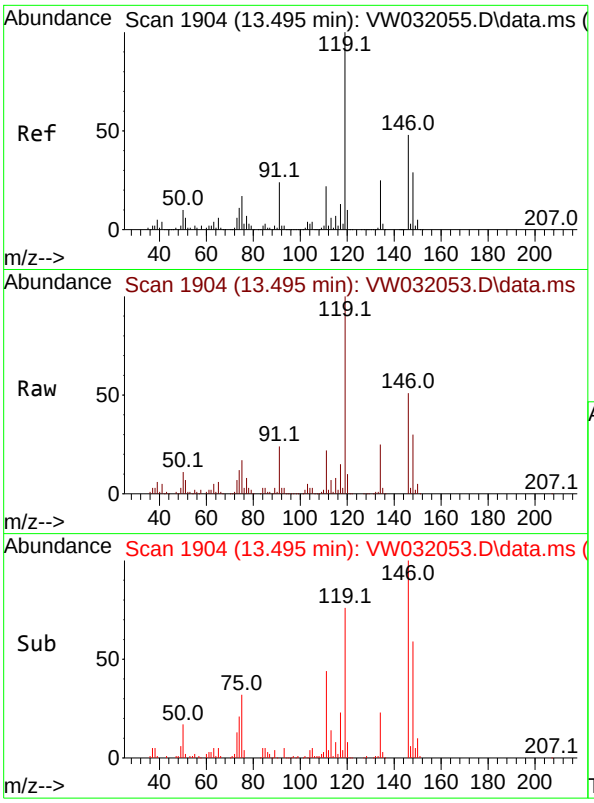




#86
p-Isopropyltoluene
Concen: 9.827 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:119 Resp: 110557

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 24.8 | 12.4 | 37.0 |
| 91 | 25.8 | 12.1 | 36.3 |



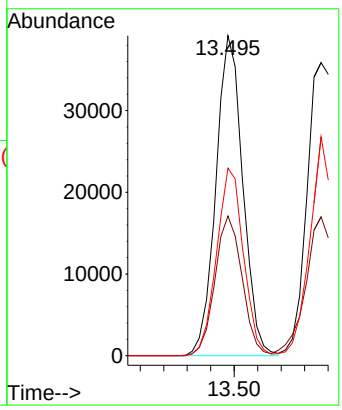


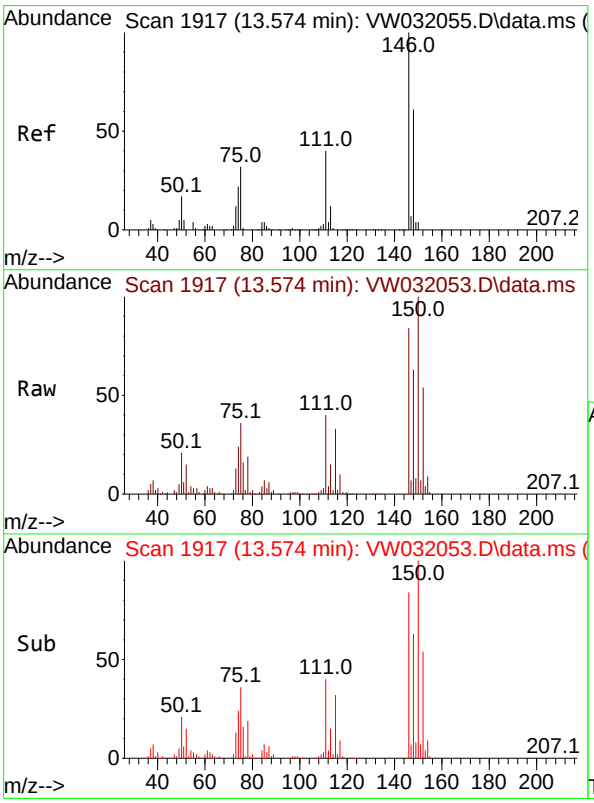

#87
1,3-Dichlorobenzene
Concen: 10.361 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion:146 Resp: 62383

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.9 | 21.2 | 63.6 |
| 148 | 58.5 | 30.3 | 90.8 |

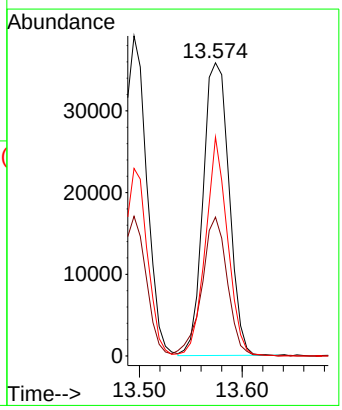


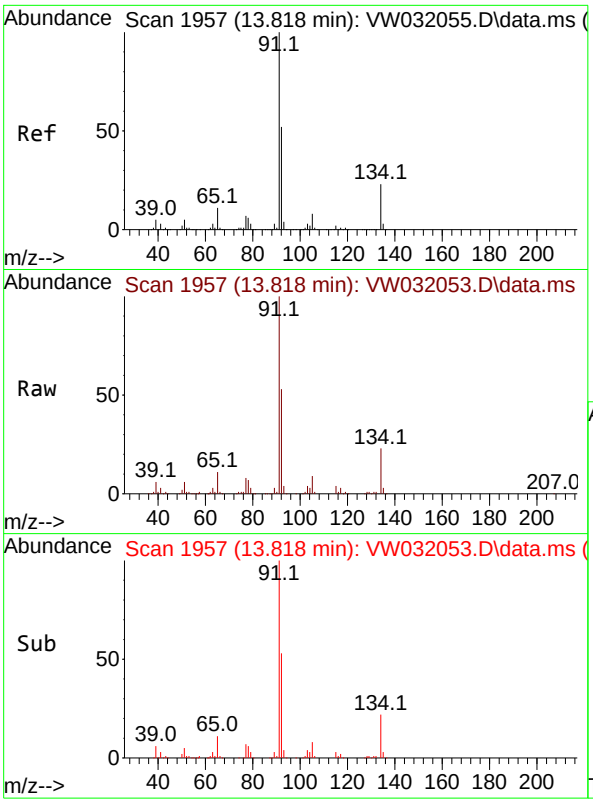




#88
1,4-Dichlorobenzene
Concen: 10.328 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:146 Resp: 62843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 46.7 | 21.6 | 64.6 |
| 148 | 63.8 | 32.0 | 96.2 |



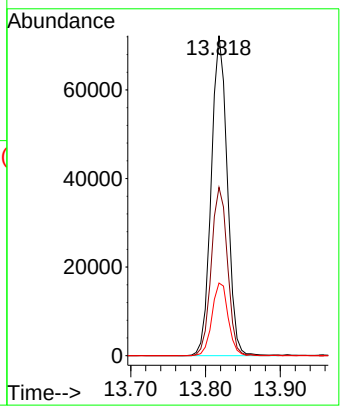


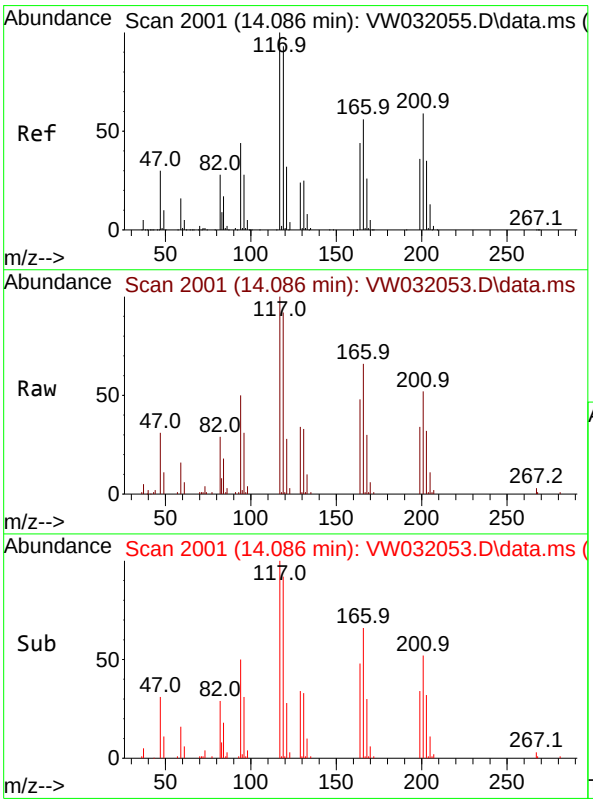

#89
n-Butylbenzene
Concen: 9.881 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion: 91 Resp: 108004

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.0 | 26.7 | 80.1 |
| 134 | 22.8 | 12.0 | 36.1 |

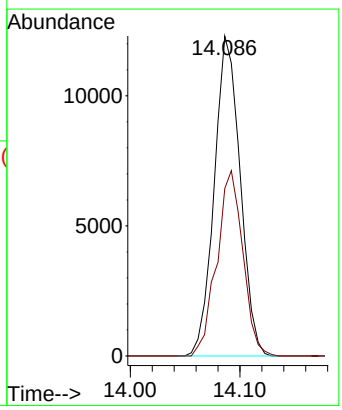


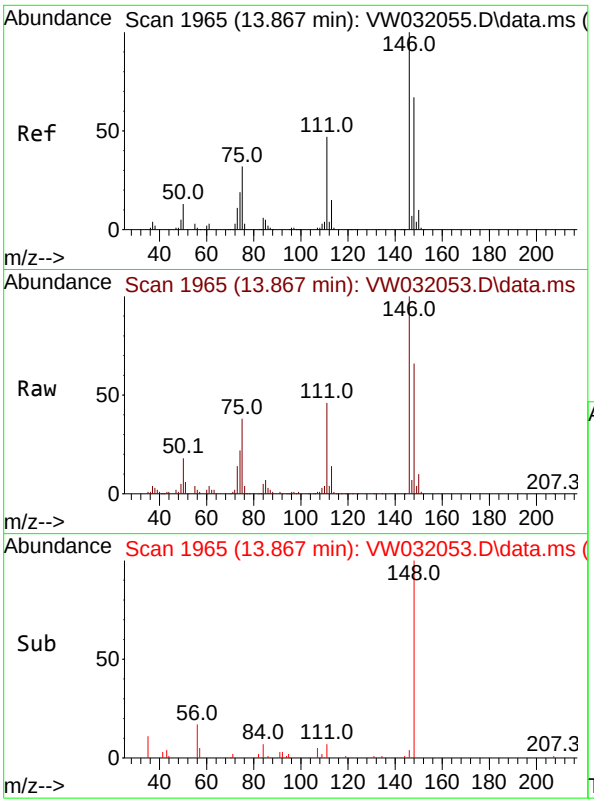




#90
Hexachloroethane
Concen: 9.805 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:117 Resp: 20175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 58.3 | 30.9 | 92.5 |



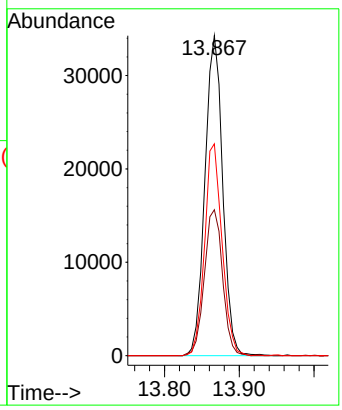


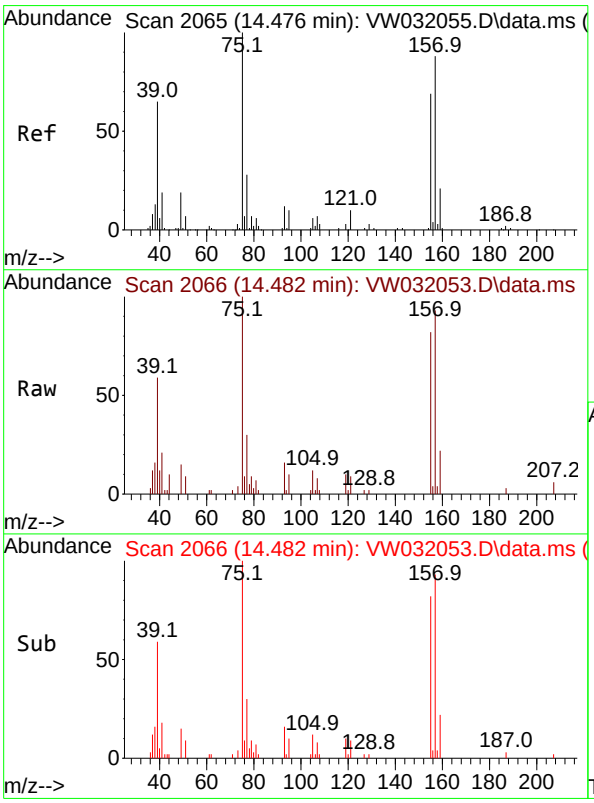

#91
1,2-Dichlorobenzene
Concen: 10.359 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion:146 Resp: 56501

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 46.8 | 23.1 | 69.3 |
| 148 | 64.9 | 32.9 | 98.6 |

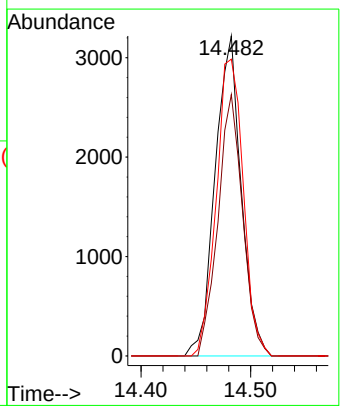


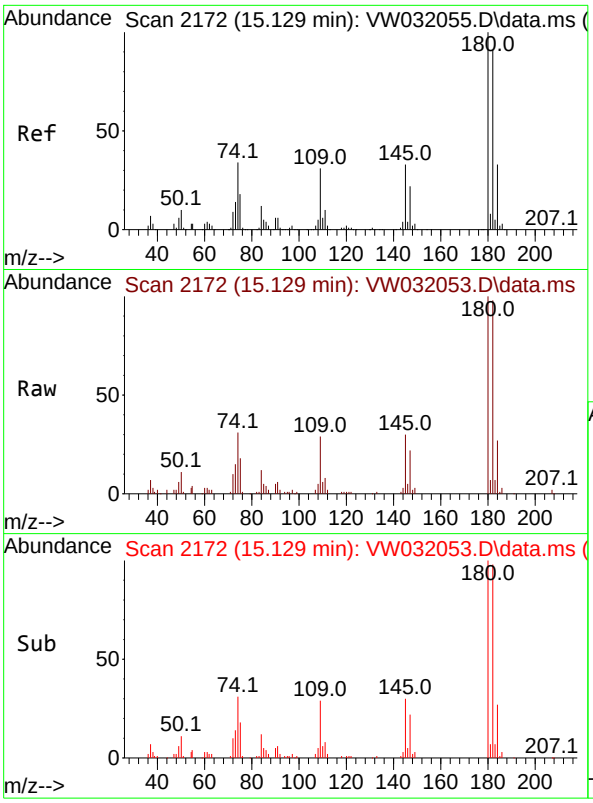




#92
1,2-Dibromo-3-Chloropropane
Concen: 9.920 ug/l
RT: 14.482 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion: 75 Resp: 5305

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 77.5 | 35.2 | 105.6 |
| 157 | 96.6 | 47.5 | 142.6 |



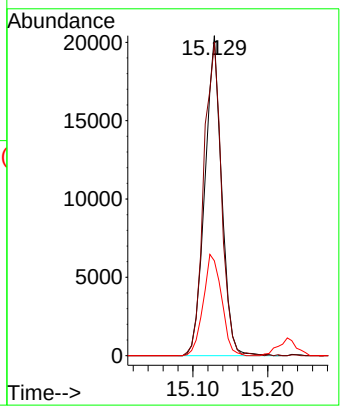


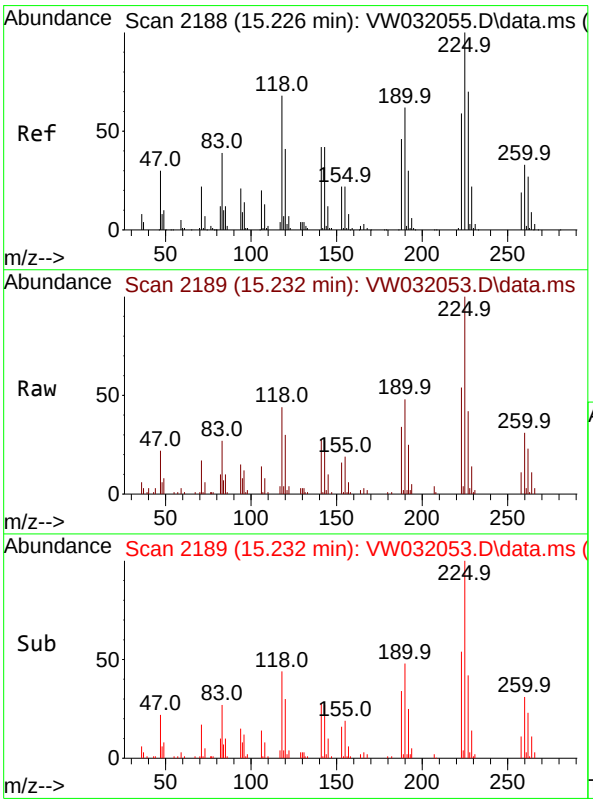

#93
1,2,4-Trichlorobenzene
Concen: 9.751 ug/l
RT: 15.129 min Scan# 21
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion:180 Resp: 31816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 102.4 | 49.0 | 147.0 |
| 145 | 34.6 | 17.3 | 51.9 |

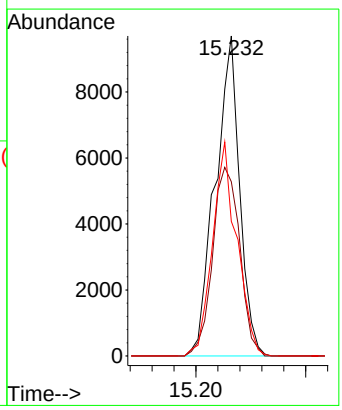


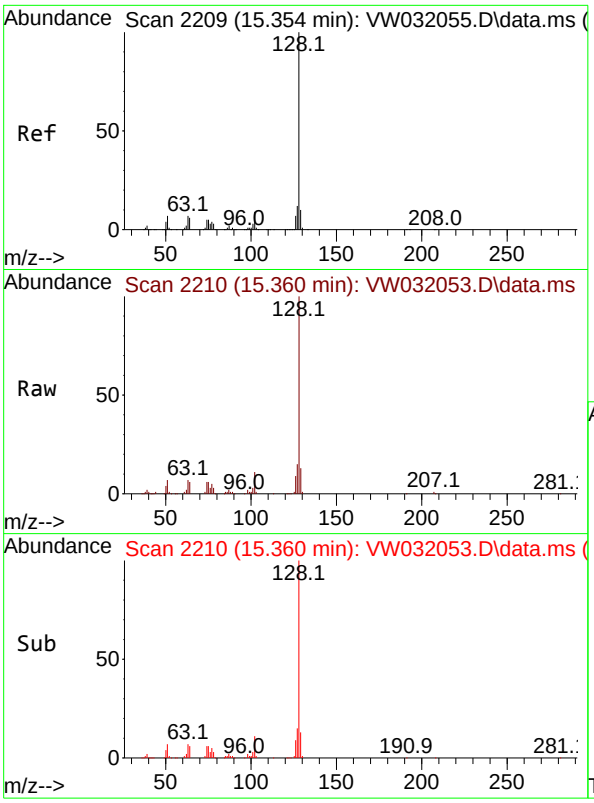




#94
Hexachlorobutadiene
Concen: 10.276 ug/l
RT: 15.232 min Scan# 2189
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:225 Resp: 14987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 65.5 | 31.8 | 95.3 |
| 227 | 66.4 | 33.5 | 100.5 |



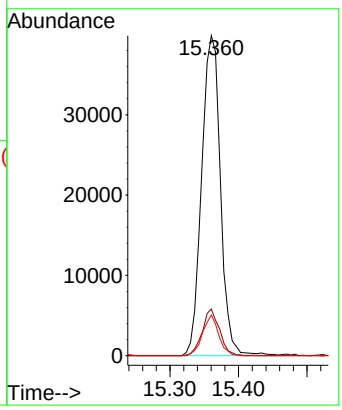


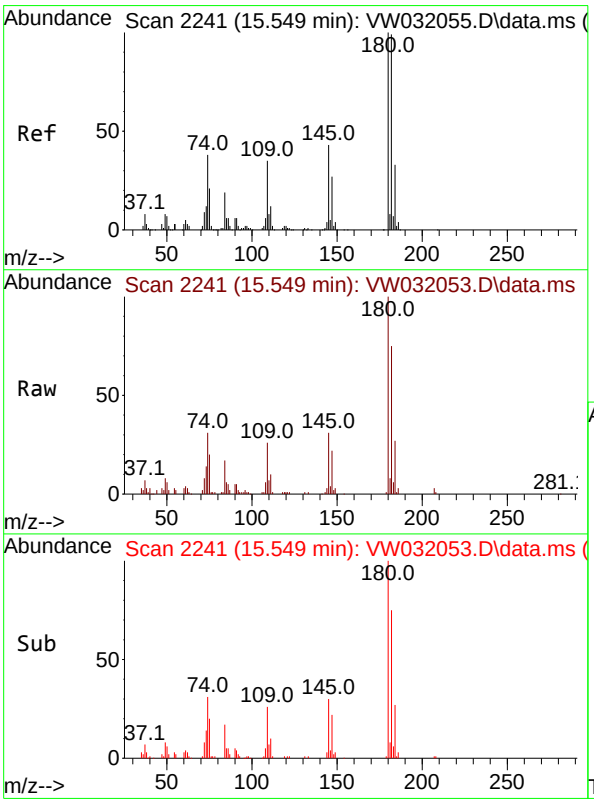

#95
Naphthalene
Concen: 9.542 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC010

Tgt Ion:128 Resp: 76287

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.3 | 10.5 | 15.7 |
| 129 | 10.9 | 8.2 | 12.4 |

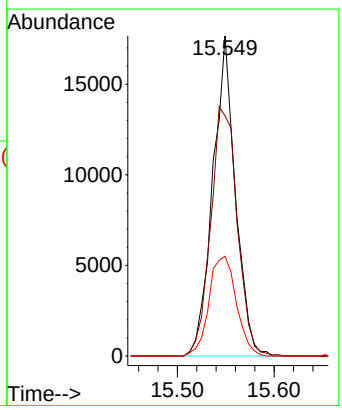



#96
1,2,3-Trichlorobenzene
Concen: 9.660 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. -0.000 min
Lab File: VW032053.D
Acq: 11 Aug 2025 09:09

Tgt Ion:180 Resp: 28678

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 91.5 | 46.0 | 138.0 |
| 145 | 37.6 | 19.2 | 57.6 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032054.D
Acq On : 11 Aug 2025 09:47
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Quant Time: Aug 12 03:37:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.959 | 168 | 221832 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.849 | 114 | 428395 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.629 | 117 | 386857 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.550 | 152 | 191343 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.313 | 65 | 63857 | 19.904 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 63 - 155 | | Recovery = 39.800%# | | | |
| 35) Dibromofluoromethane | 7.898 | 113 | 55788 | 20.158 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 70 - 134 | | Recovery = 40.320%# | | | |
| 50) Toluene-d8 | 10.325 | 98 | 206901 | 20.212 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 123 | | Recovery = 40.420%# | | | |
| 62) 4-Bromofluorobenzene | 12.617 | 95 | 76008 | 20.149 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 17 - 146 | | Recovery = 40.300% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.046 | 85 | 34171 | 21.537 | ug/l | 94 |
| 3) Chloromethane | 2.253 | 50 | 44499 | 20.821 | ug/l | 99 |
| 4) Vinyl Chloride | 2.405 | 62 | 57293 | 22.162 | ug/l | 91 |
| 5) Bromomethane | 2.814 | 94 | 41008 | 21.144 | ug/l | 93 |
| 6) Chloroethane | 2.966 | 64 | 36220 | 21.173 | ug/l | 100 |
| 7) Trichlorofluoromethane | 3.302 | 101 | 38977 | 18.821 | ug/l | 99 |
| 8) Diethyl Ether | 3.716 | 74 | 34764 | 20.489 | ug/l | 96 |
| 9) 1,1,2-Trichlorotrifluo... | 4.088 | 101 | 52165 | 21.351 | ug/l | 99 |
| 10) Methyl Iodide | 4.308 | 142 | 74197 | 21.419 | ug/l | 99 |
| 11) Tert butyl alcohol | 5.216 | 59 | 18539 | 89.237 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 4.076 | 96 | 57624 | 21.419 | ug/l | 98 |
| 13) Acrolein | 3.923 | 56 | 32512 | 98.218 | ug/l | 96 |
| 14) Allyl chloride | 4.698 | 41 | 81458 | 20.804 | ug/l | 99 |
| 15) Acrylonitrile | 5.393 | 53 | 75311 | 93.190 | ug/l | 98 |
| 16) Acetone | 4.155 | 43 | 67134 | 90.379 | ug/l | 99 |
| 17) Carbon Disulfide | 4.417 | 76 | 153247 | 21.222 | ug/l | 97 |
| 18) Methyl Acetate | 4.704 | 43 | 43536 | 18.522 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.466 | 73 | 96253 | 20.306 | ug/l | 99 |
| 20) Methylene Chloride | 4.948 | 84 | 74547 | 21.706 | ug/l | 94 |
| 21) trans-1,2-Dichloroethene | 5.454 | 96 | 59717 | 20.917 | ug/l | 97 |
| 22) Diisopropyl ether | 6.338 | 45 | 172071 | 20.846 | ug/l | 99 |
| 23) Vinyl Acetate | 6.277 | 43 | 539862 | 99.617 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 6.240 | 63 | 110835 | 21.016 | ug/l | 98 |
| 25) 2-Butanone | 7.191 | 43 | 96191 | 91.114 | ug/l | 97 |
| 26) 2,2-Dichloropropane | 7.179 | 77 | 53780 | 20.327 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 7.191 | 96 | 68545 | 20.540 | ug/l | 99 |
| 28) Bromochloromethane | 7.527 | 49 | 48715 | 20.298 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.551 | 42 | 64317 | 92.379 | ug/l | 98 |
| 30) Chloroform | 7.691 | 83 | 117474 | 21.011 | ug/l | 97 |
| 31) Cyclohexane | 7.965 | 56 | 95253 | 20.833 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.880 | 97 | 85600 | 21.078 | ug/l | 97 |
| 36) 1,1-Dichloropropene | 8.087 | 75 | 80811 | 20.712 | ug/l | 99 |
| 37) Ethyl Acetate | 7.270 | 43 | 41235 | 17.945 | ug/l | 98 |
| 38) Carbon Tetrachloride | 8.081 | 117 | 77289 | 20.527 | ug/l | 91 |
| 39) Methylcyclohexane | 9.337 | 83 | 97412 | 20.484 | ug/l | 94 |
| 40) Benzene | 8.331 | 78 | 246590 | 20.333 | ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032054.D
Acq On : 11 Aug 2025 09:47
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Quant Time: Aug 12 03:37:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.496 | 41 | 25075 | 19.242 | ug/l | | 97 |
| 42) 1,2-Dichloroethane | 8.410 | 62 | 78543 | 20.239 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.435 | 43 | 78887 | 18.660 | ug/l | | 98 |
| 44) Trichloroethene | 9.099 | 130 | 58636 | 20.302 | ug/l | | 99 |
| 45) 1,2-Dichloropropane | 9.374 | 63 | 60346 | 20.597 | ug/l | | 100 |
| 46) Dibromomethane | 9.465 | 93 | 37580 | 19.873 | ug/l | | 98 |
| 47) Bromodichloromethane | 9.648 | 83 | 86577 | 19.869 | ug/l | | 92 |
| 48) Methyl methacrylate | 9.441 | 41 | 38175 | 18.704 | ug/l | | 97 |
| 49) 1,4-Dioxane | 9.459 | 88 | 8924 | 364.998 | ug/l | | 97 |
| 51) 4-Methyl-2-Pentanone | 10.209 | 43 | 220661 | 92.472 | ug/l | | 99 |
| 52) Toluene | 10.392 | 92 | 155974 | 20.418 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 10.605 | 75 | 79452 | 19.463 | ug/l | | 97 |
| 54) cis-1,3-Dichloropropene | 10.075 | 75 | 90828 | 19.612 | ug/l | | 96 |
| 55) 1,1,2-Trichloroethane | 10.788 | 97 | 49974 | 19.888 | ug/l | | 95 |
| 56) Ethyl methacrylate | 10.648 | 69 | 62694 | 18.645 | ug/l | | 97 |
| 57) 1,3-Dichloropropane | 10.934 | 76 | 86678 | 19.790 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.928 | 63 | 176339 | 94.809 | ug/l | | 98 |
| 59) 2-Hexanone | 10.971 | 43 | 151264 | 91.530 | ug/l | | 100 |
| 60) Dibromochloromethane | 11.130 | 129 | 56607 | 19.721 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 11.233 | 107 | 47302 | 19.371 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.861 | 164 | 45660 | 20.434 | ug/l | | 99 |
| 65) Chlorobenzene | 11.654 | 112 | 169830 | 20.169 | ug/l | | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 11.727 | 131 | 52937 | 20.150 | ug/l | | 98 |
| 67) Ethyl Benzene | 11.727 | 91 | 297193 | 20.836 | ug/l | | 97 |
| 68) m/p-Xylenes | 11.837 | 106 | 233224 | 42.376 | ug/l | | 98 |
| 69) o-Xylene | 12.166 | 106 | 104192 | 20.482 | ug/l | | 100 |
| 70) Styrene | 12.178 | 104 | 189664 | 20.991 | ug/l | | 98 |
| 71) Bromoform | 12.349 | 173 | 28540 | 18.991 | ug/l | # | 96 |
| 73) Isopropylbenzene | 12.459 | 105 | 269829 | 20.178 | ug/l | | 99 |
| 74) N-amyl acetate | 12.270 | 43 | 69075 | 18.005 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.709 | 83 | 58836 | 18.531 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.763 | 75 | 73585 | 25.017 | ug/l | | 63 |
| 77) Bromobenzene | 12.745 | 156 | 61389 | 19.221 | ug/l | | 98 |
| 78) n-propylbenzene | 12.800 | 91 | 337098 | 20.476 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.885 | 91 | 203918 | 20.069 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.940 | 105 | 229615 | 20.226 | ug/l | | 97 |
| 81) trans-1,4-Dichloro-2-b... | 12.507 | 75 | 17512 | 17.458 | ug/l | | 92 |
| 82) 4-Chlorotoluene | 12.983 | 91 | 218637 | 20.253 | ug/l | | 98 |
| 83) tert-Butylbenzene | 13.202 | 119 | 194168 | 20.608 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.245 | 105 | 240078 | 20.774 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.379 | 105 | 292689 | 20.547 | ug/l | | 97 |
| 86) p-Isopropyltoluene | 13.495 | 119 | 245081 | 20.638 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.495 | 146 | 128893 | 20.282 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.574 | 146 | 133097 | 20.724 | ug/l | | 97 |
| 89) n-Butylbenzene | 13.818 | 91 | 234522 | 20.328 | ug/l | | 99 |
| 90) Hexachloroethane | 14.086 | 117 | 43226 | 19.904 | ug/l | | 93 |
| 91) 1,2-Dichlorobenzene | 13.861 | 146 | 114056 | 19.812 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.476 | 75 | 10011 | 17.736 | ug/l | | 95 |
| 93) 1,2,4-Trichlorobenzene | 15.123 | 180 | 69229 | 20.102 | ug/l | | 95 |
| 94) Hexachlorobutadiene | 15.226 | 225 | 30358 | 19.720 | ug/l | | 91 |
| 95) Naphthalene | 15.360 | 128 | 153137 | 18.147 | ug/l | | 98 |
| 96) 1,2,3-Trichlorobenzene | 15.543 | 180 | 61526 | 19.635 | ug/l | | 97 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032054.D
Acq On : 11 Aug 2025 09:47
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Quant Time: Aug 12 03:37:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

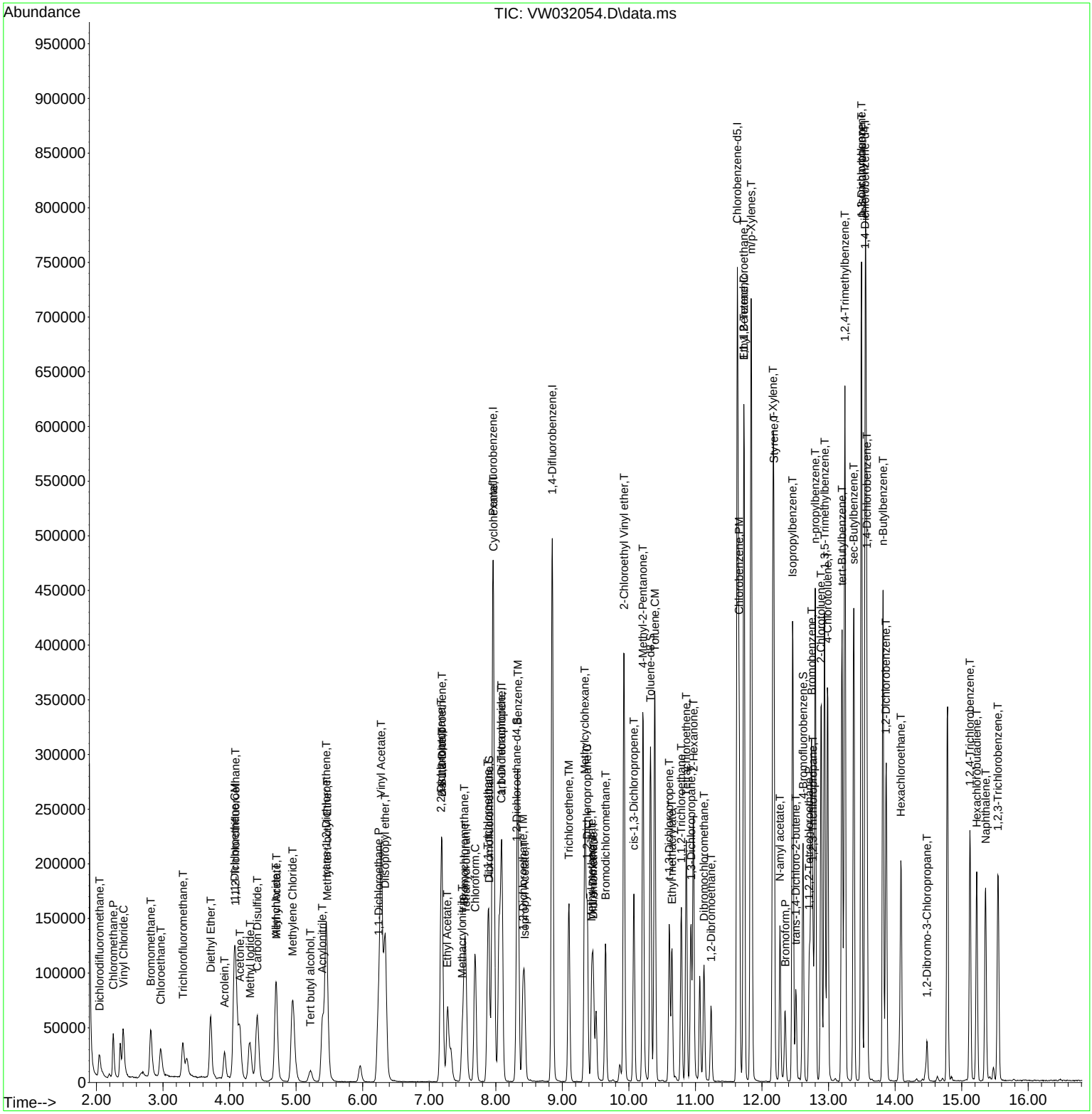
(#) = qualifier out of range (m) = manual integration (+) = signals summed

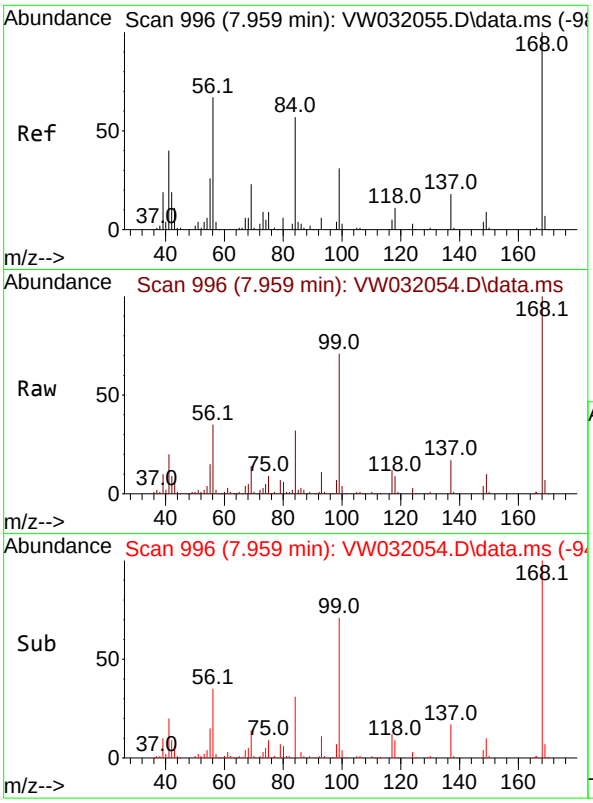
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032054.D
Acq On : 11 Aug 2025 09:47
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Quant Time: Aug 12 03:37:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration



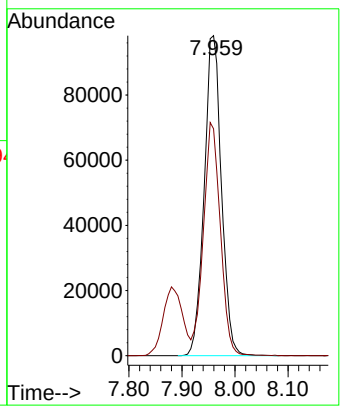


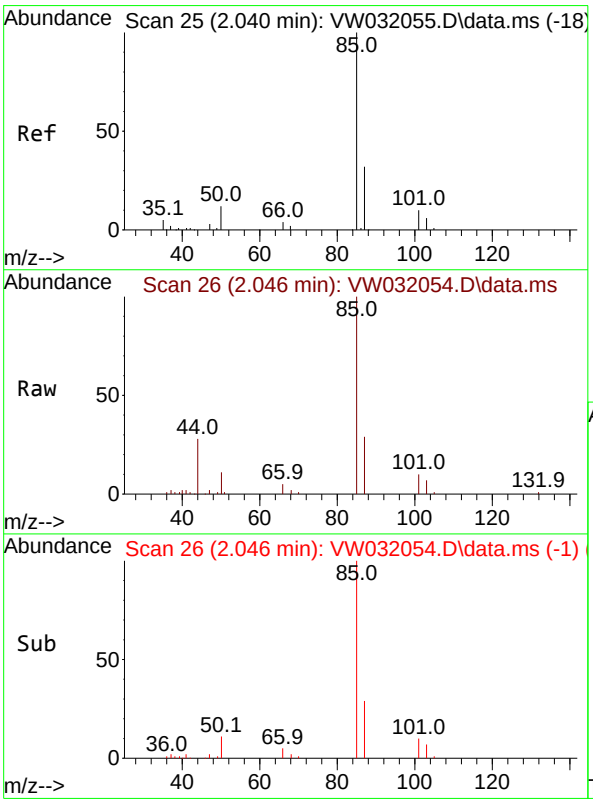

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion:168 Resp: 221832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 70.9 | 56.0 | 84.0 |

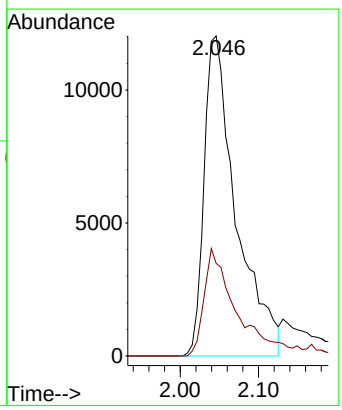


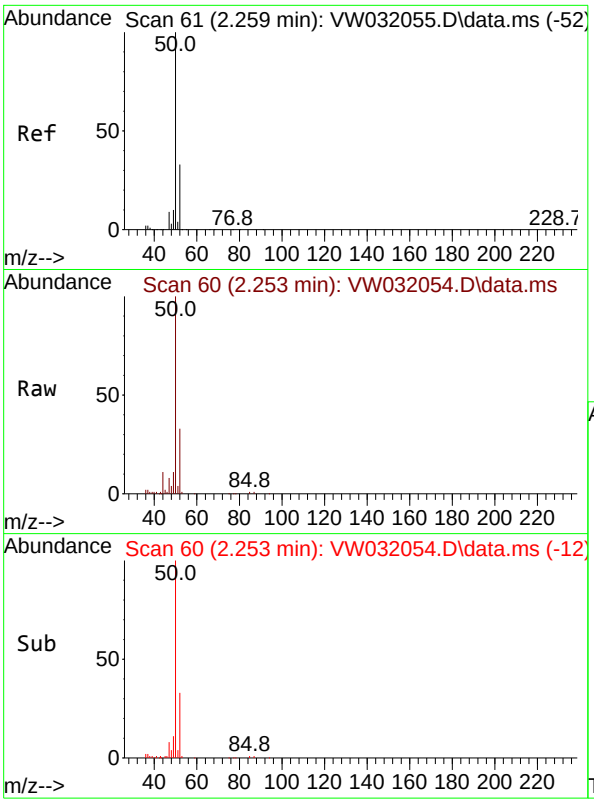




#2
Dichlorodifluoromethane
Concen: 21.537 ug/l
RT: 2.046 min Scan# 26
Delta R.T. 0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 85 Resp: 34171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 29.0 | 16.2 | 48.6 |



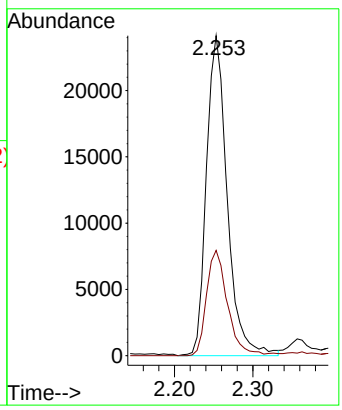


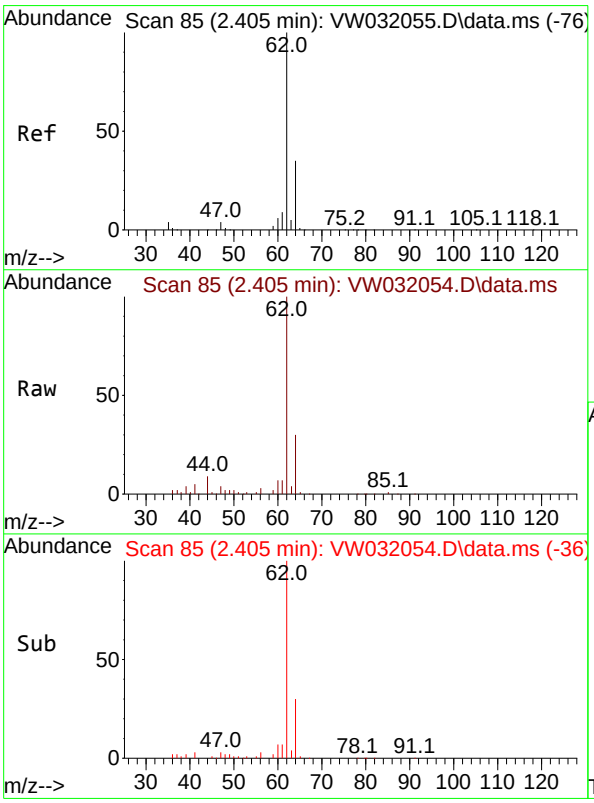

#3
Chloromethane
Concen: 20.821 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion: 50 Resp: 44499

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.9 | 26.6 | 39.8 |

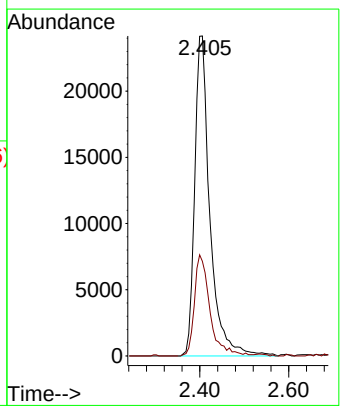


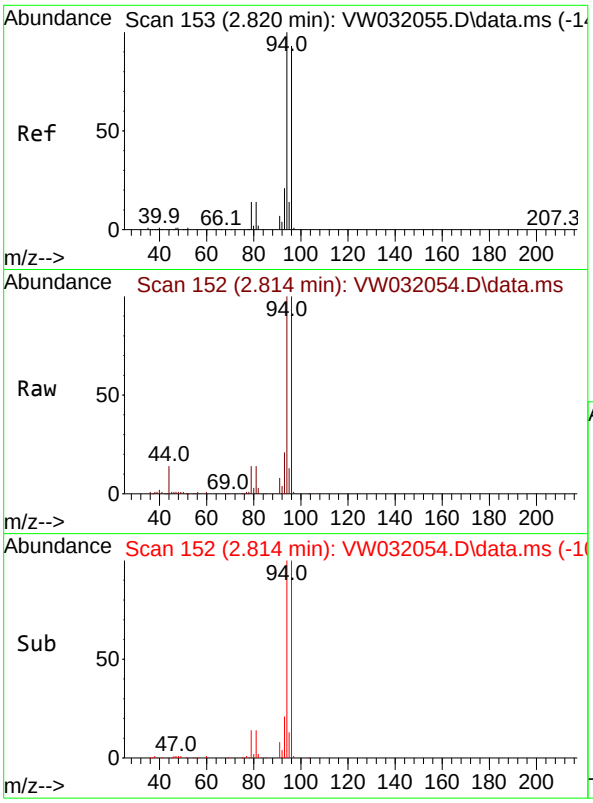




#4
Vinyl Chloride
Concen: 22.162 ug/l
RT: 2.405 min Scan# 85
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 62 Resp: 57293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 29.6 | 27.8 | 41.6 |



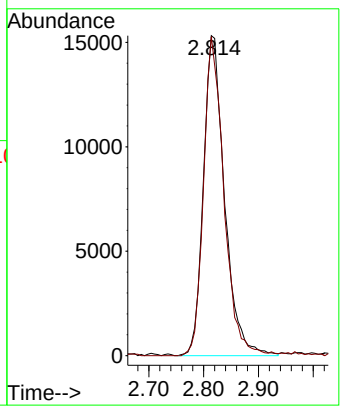


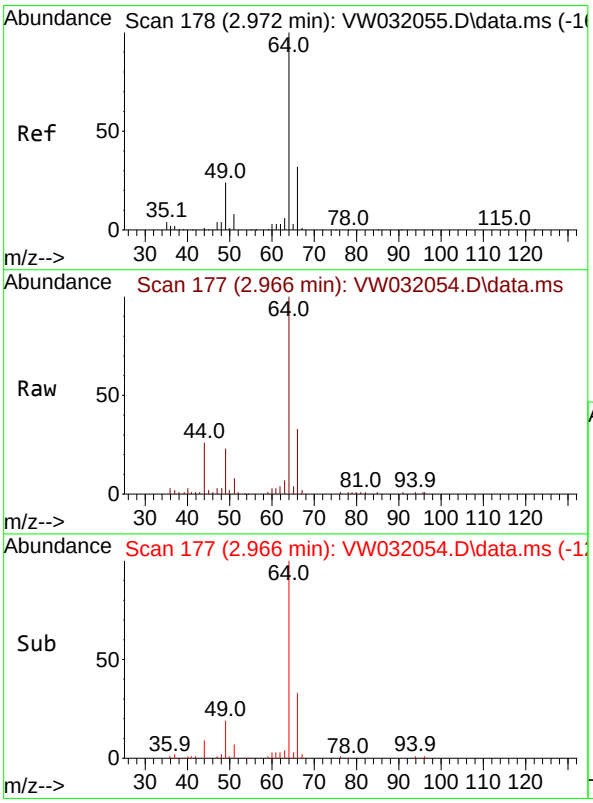

#5
Bromomethane
Concen: 21.144 ug/l
RT: 2.814 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion: 94 Resp: 41008

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 99.7 | 74.7 | 112.1 |

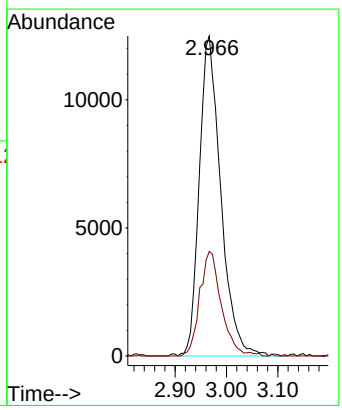


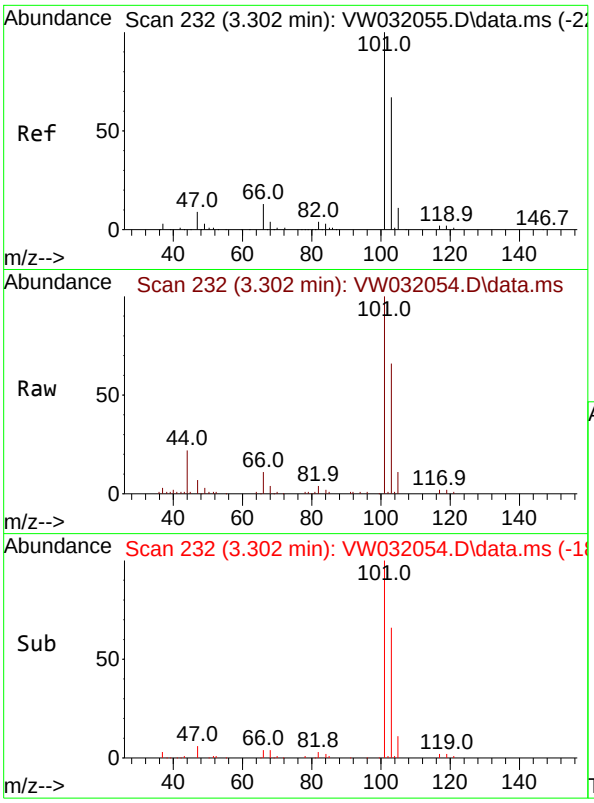




#6
Chloroethane
Concen: 21.173 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 64 Resp: 36220

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.7 | 26.0 | 39.0 |



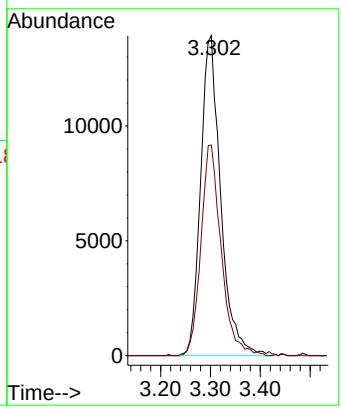


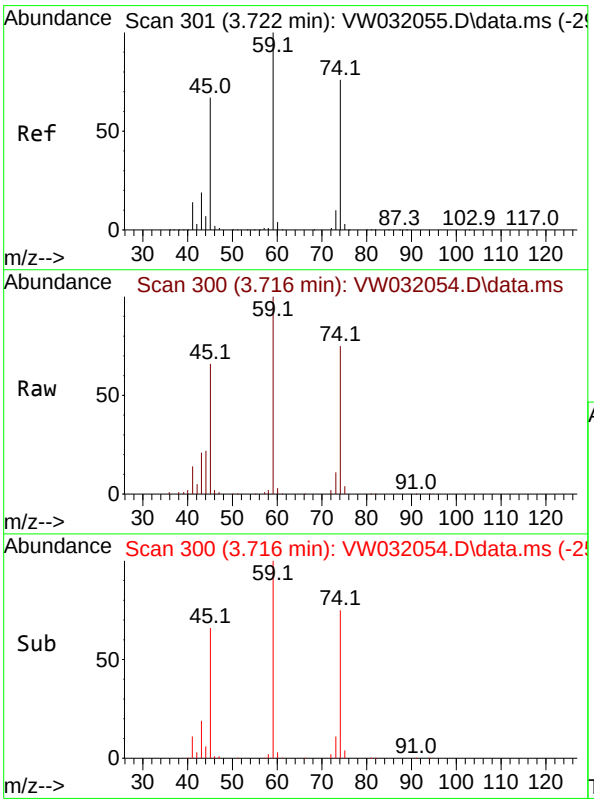

#7
Trichlorofluoromethane
Concen: 18.821 ug/l
RT: 3.302 min Scan# 2
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion:101 Resp: 38977

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.8 | 53.4 | 80.0 |

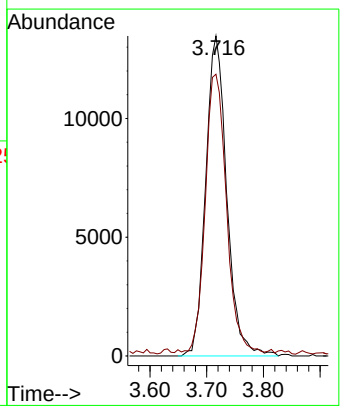


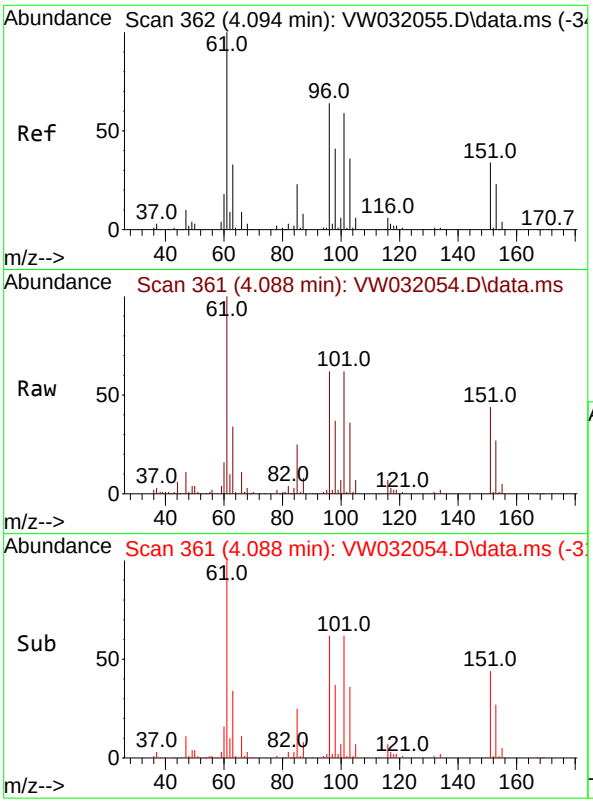




#8
Diethyl Ether
Concen: 20.489 ug/l
RT: 3.716 min Scan# 300
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 74 Resp: 34764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 86.6 | 45.4 | 136.2 |



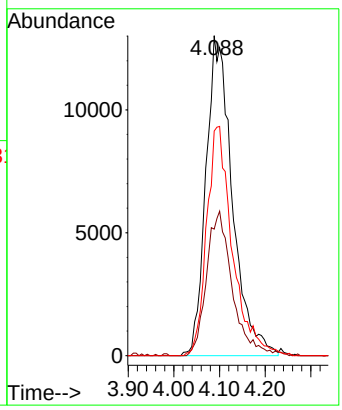


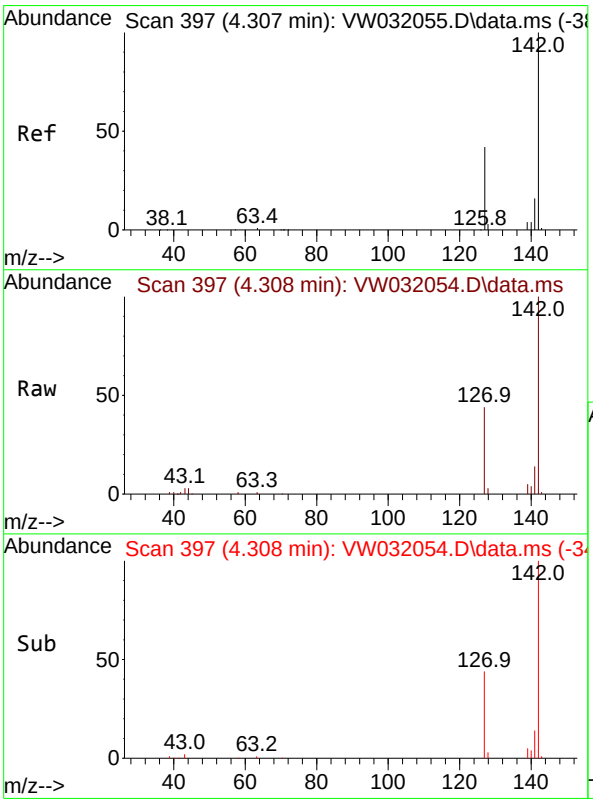

#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.351 ug/l
RT: 4.088 min Scan# 3
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion:101 Resp: 52165

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 44.1 | 34.9 | 52.3 |
| 151 | 70.0 | 56.2 | 84.4 |

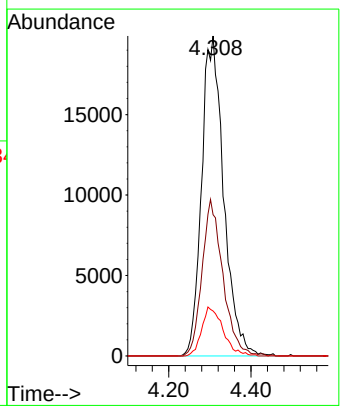


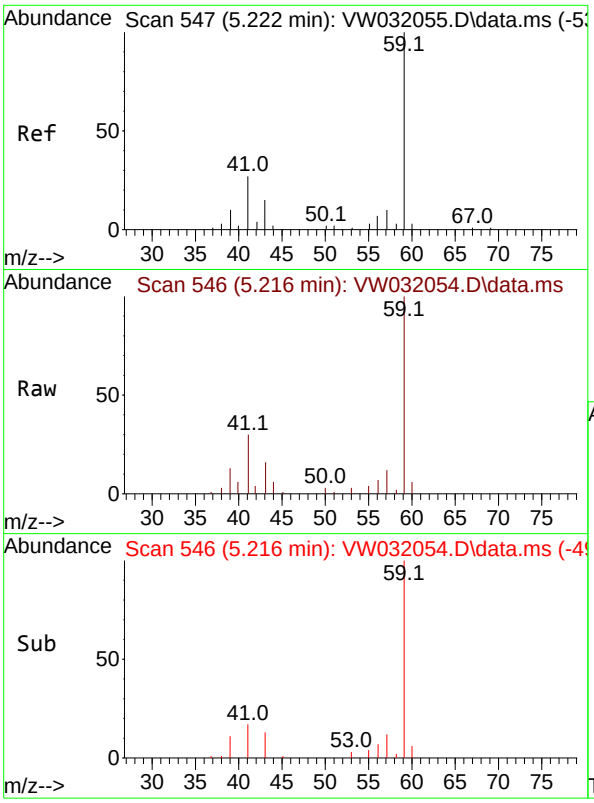




#10
Methyl Iodide
Concen: 21.419 ug/l
RT: 4.308 min Scan# 397
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:142 Resp: 74197

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 46.1 | 36.6 | 55.0 |
| 141 | 14.8 | 12.1 | 18.1 |



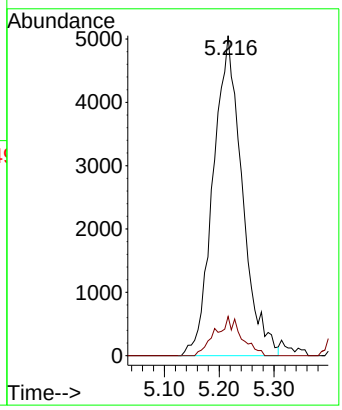


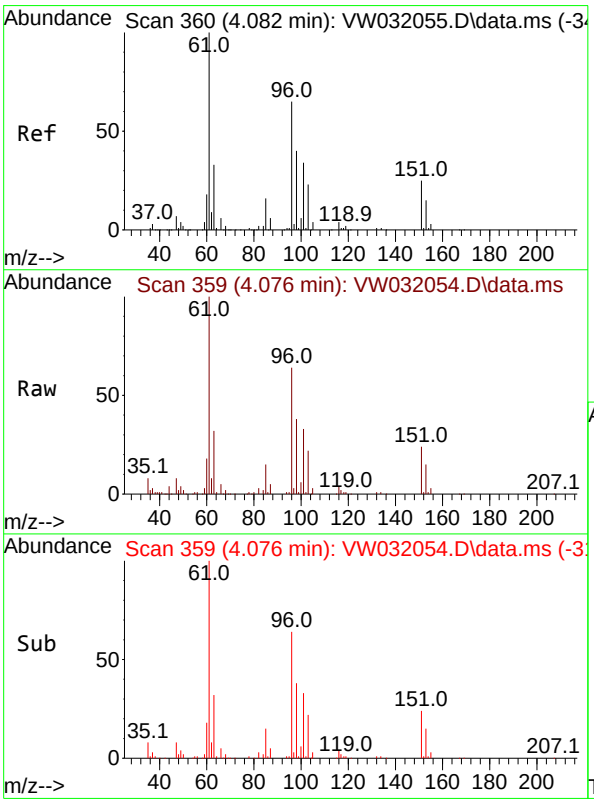

#11
Tert butyl alcohol
Concen: 89.237 ug/l
RT: 5.216 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion: 59 Resp: 18539

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.9 | 8.7 | 13.1 |

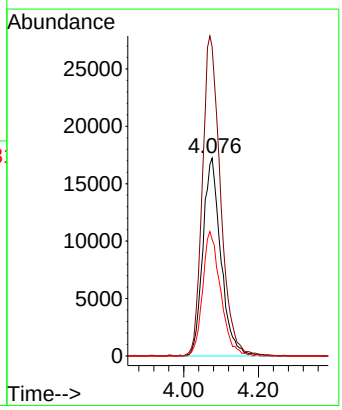


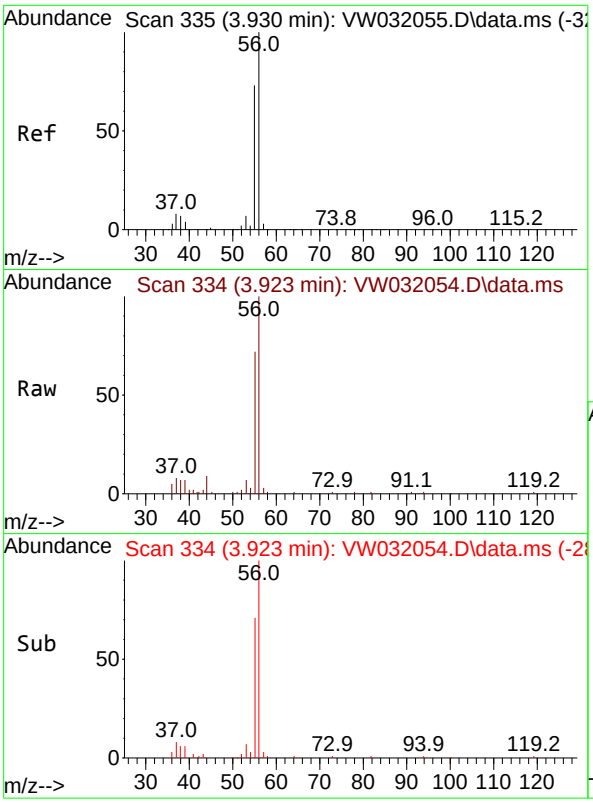




#12
1,1-Dichloroethene
Concen: 21.419 ug/l
RT: 4.076 min Scan# 359
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 96 Resp: 57624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 156.3 | 123.4 | 185.2 |
| 98 | 59.0 | 49.5 | 74.3 |



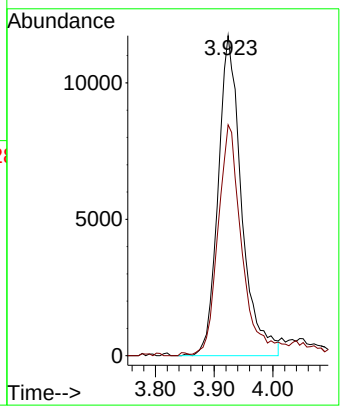


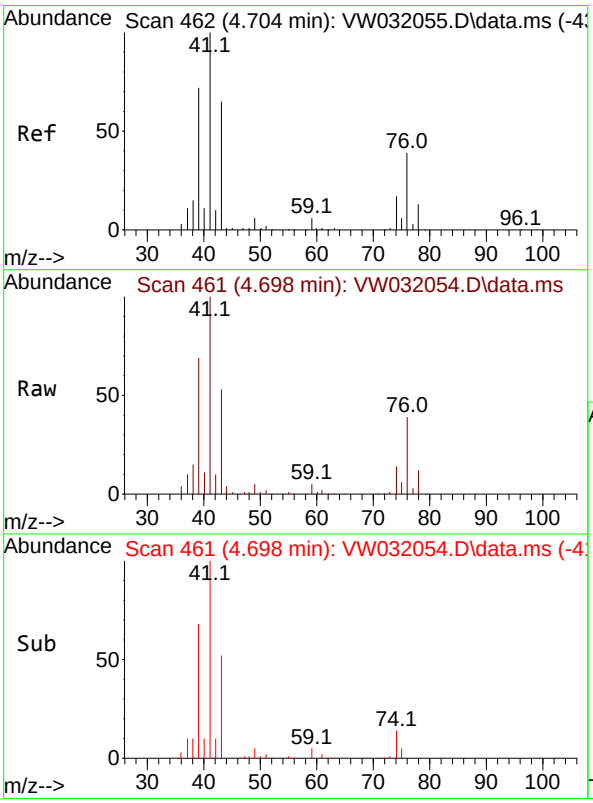

#13
Acrolein
Concen: 98.218 ug/l
RT: 3.923 min Scan# 3
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion: 56 Resp: 32512

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 72.7 | 55.4 | 83.2 |

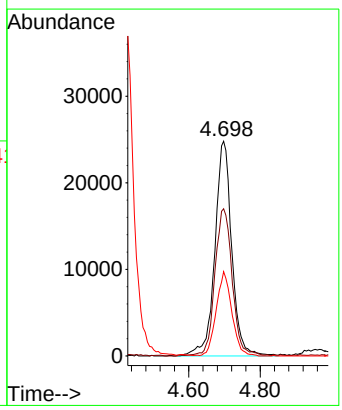


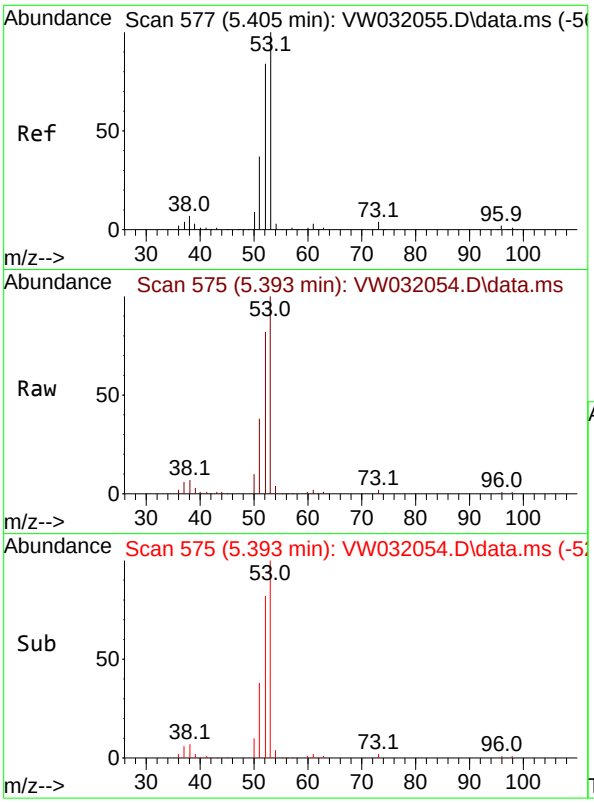




#14
Allyl chloride
Concen: 20.804 ug/l
RT: 4.698 min Scan# 461
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 41 Resp: 81458

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 69.3 | 54.5 | 81.7 |
| 76 | 36.3 | 29.3 | 43.9 |



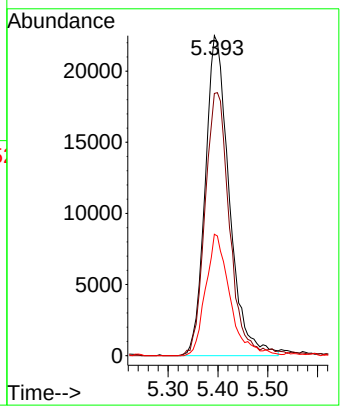


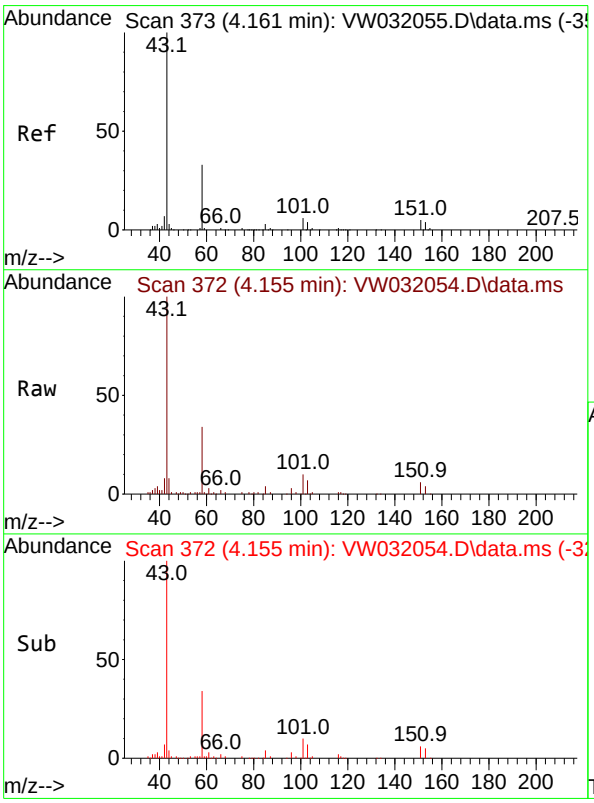

#15
Acrylonitrile
Concen: 93.190 ug/l
RT: 5.393 min Scan# 5
Delta R.T. -0.012 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion: 53 Resp: 75311

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 84.2 | 66.1 | 99.1 |
| 51 | 38.4 | 29.2 | 43.8 |

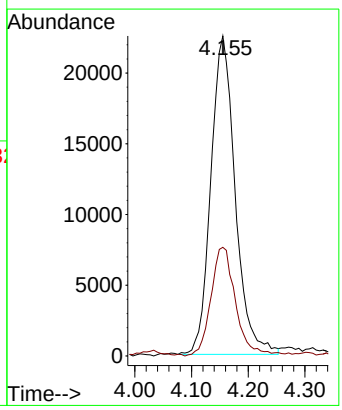


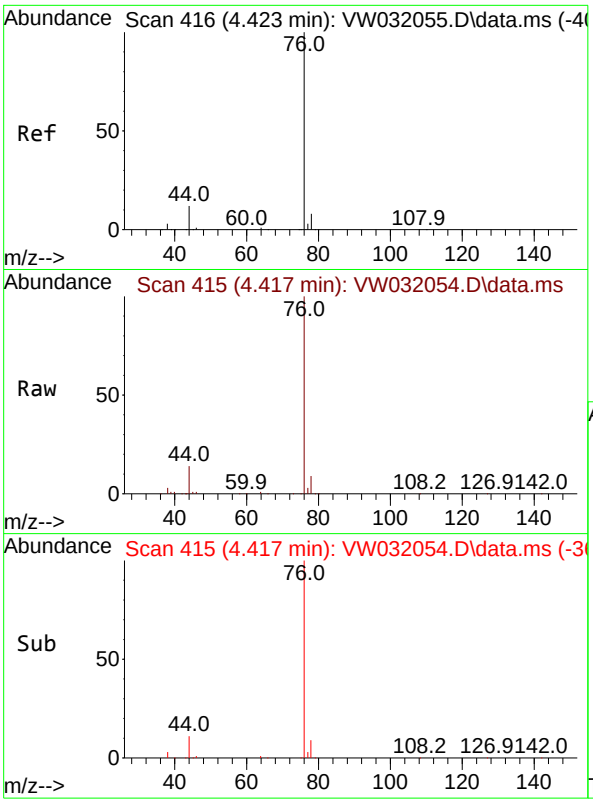




#16
Acetone
Concen: 90.379 ug/l
RT: 4.155 min Scan# 372
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 43 Resp: 67134

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.6 | 26.6 | 39.8 |



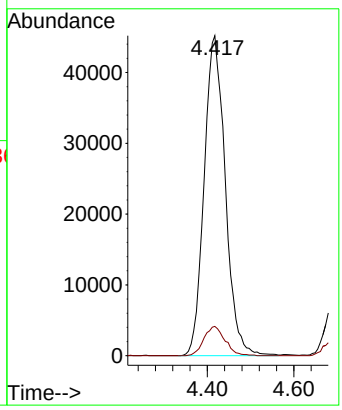


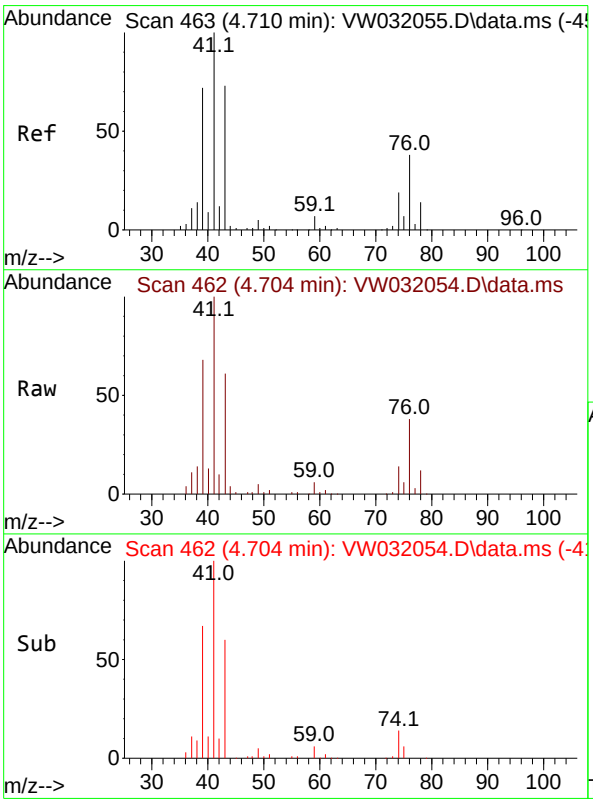

#17
Carbon Disulfide
Concen: 21.222 ug/l
RT: 4.417 min Scan# 4
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion: 76 Resp: 153247

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.2 | 6.4 | 9.6 |

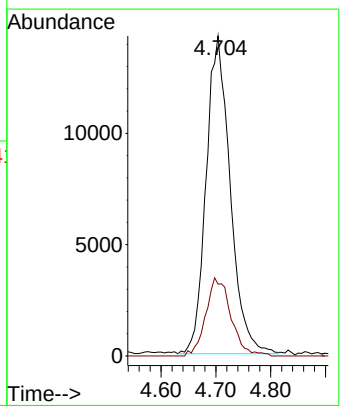


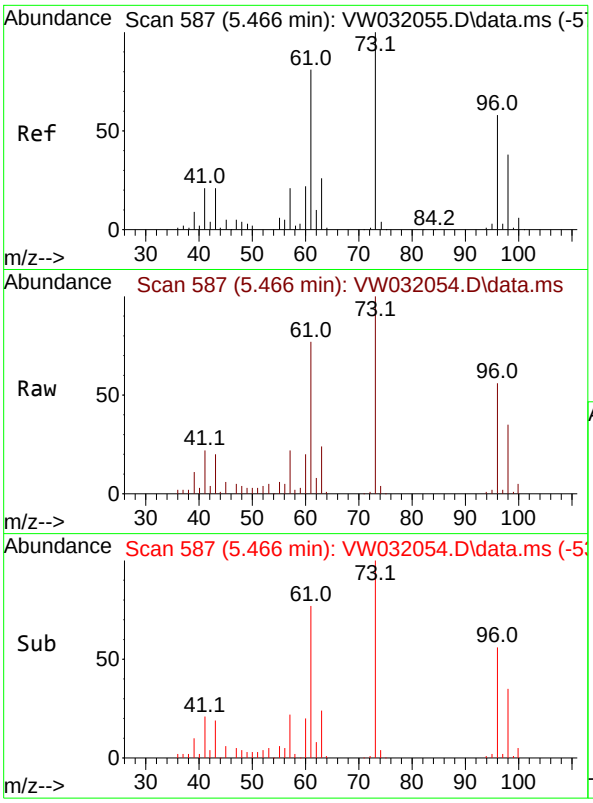




#18
Methyl Acetate
Concen: 18.522 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 43 Resp: 43536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 25.7 | 20.6 | 31.0 |



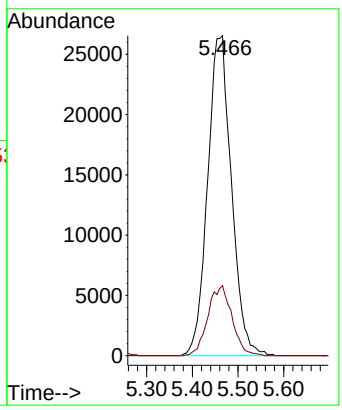


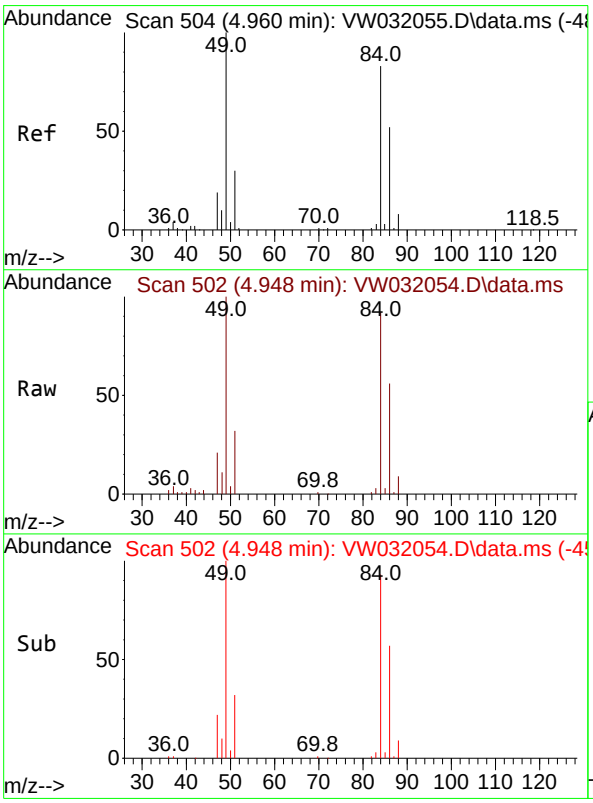

#19
Methyl tert-butyl Ether
Concen: 20.306 ug/l
RT: 5.466 min Scan# 5
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion: 73 Resp: 96253

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.9 | 17.2 | 25.8 |

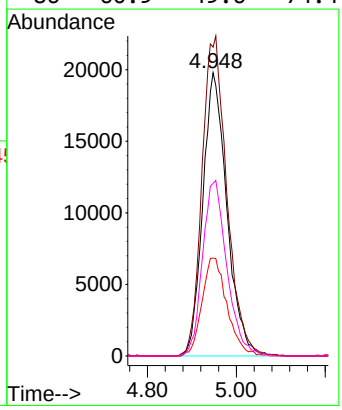


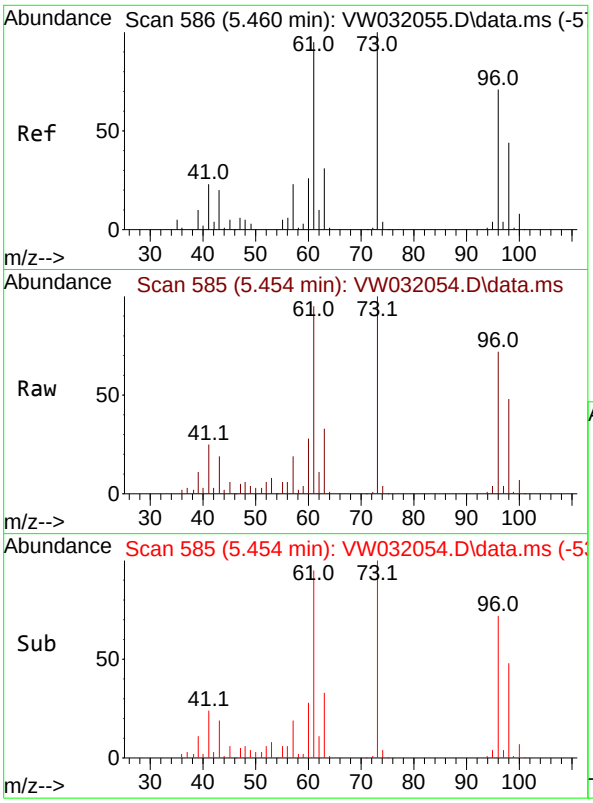




#20
Methylene Chloride
Concen: 21.706 ug/l
RT: 4.948 min Scan# 502
Delta R.T. -0.012 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 84 Resp: 74547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 109.1 | 95.9 | 143.9 |
| 51 | 34.6 | 28.6 | 43.0 |
| 86 | 60.9 | 49.6 | 74.4 |



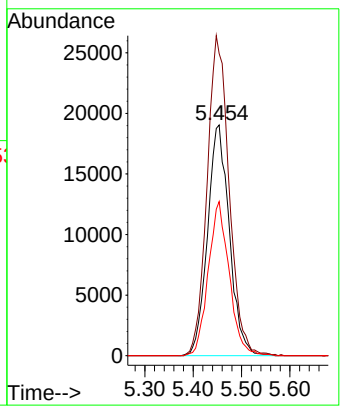


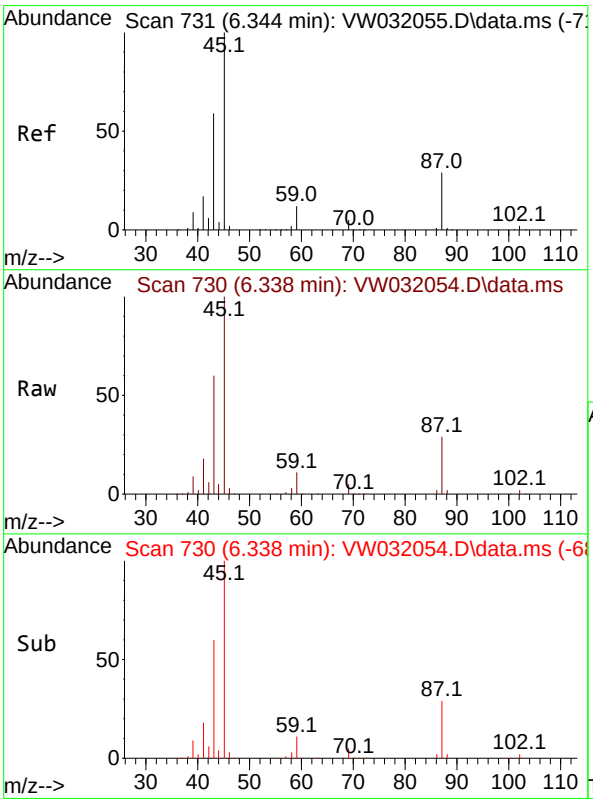

#21
trans-1,2-Dichloroethene
Concen: 20.917 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion: 96 Resp: 59717

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 131.0 | 106.8 | 160.2 |
| 98 | 66.8 | 49.6 | 74.4 |

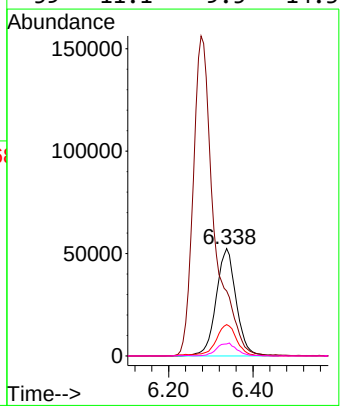


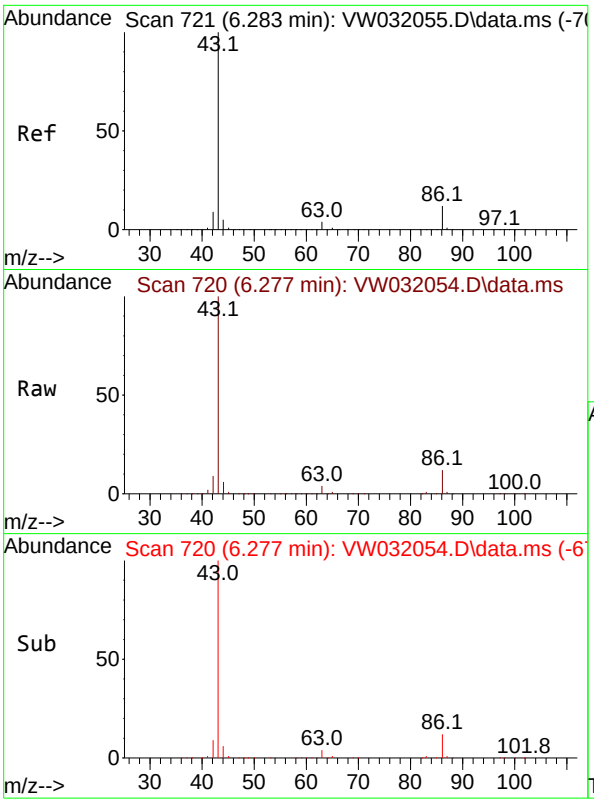




#22
Diisopropyl ether
Concen: 20.846 ug/l
RT: 6.338 min Scan# 730
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 45 Resp: 172071

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 59.6 | 47.0 | 70.4 |
| 87 | 29.2 | 23.8 | 35.8 |
| 59 | 11.1 | 9.5 | 14.3 |



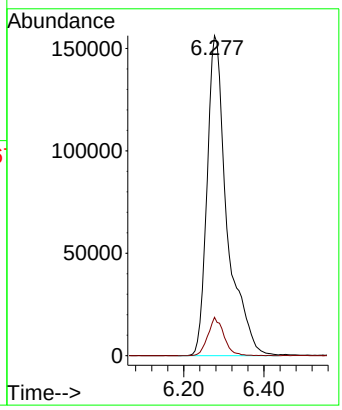


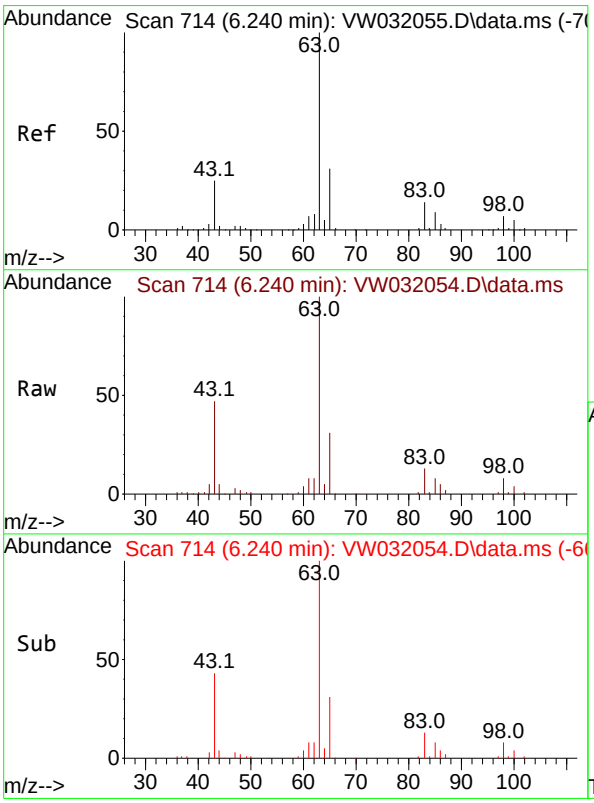

#23
Vinyl Acetate
Concen: 99.617 ug/l
RT: 6.277 min Scan# 7
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion: 43 Resp: 539862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 12.0 | 9.4 | 14.0 |

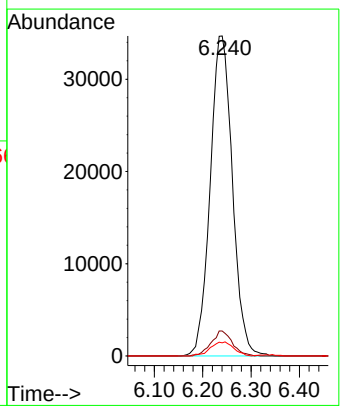


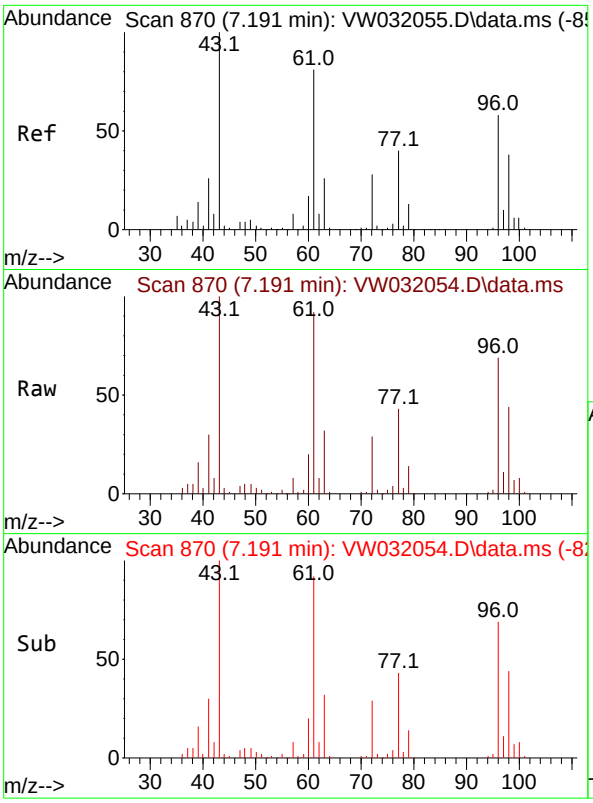




#24
1,1-Dichloroethane
Concen: 21.016 ug/l
RT: 6.240 min Scan# 714
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 63 Resp: 110835

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.8 | 3.7 | 11.1 |
| 100 | 4.1 | 2.5 | 7.4 |



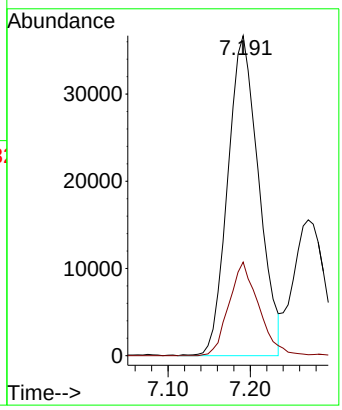


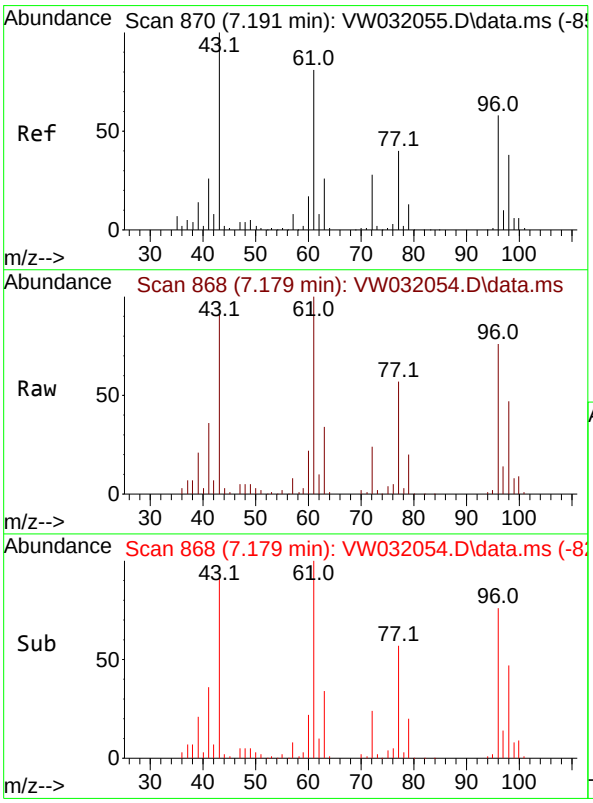

#25
2-Butanone
Concen: 91.114 ug/l
RT: 7.191 min Scan# 8
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion: 43 Resp: 96191

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 29.2 | 22.3 | 33.5 |

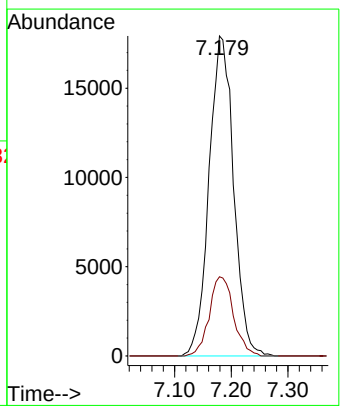


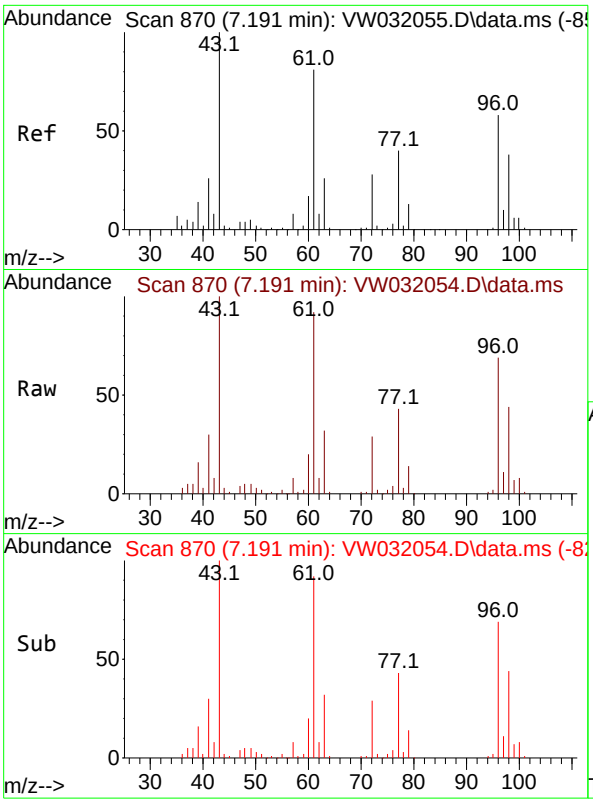




#26
2,2-Dichloropropane
Concen: 20.327 ug/l
RT: 7.179 min Scan# 868
Delta R.T. -0.012 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 77 Resp: 53780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 24.5 | 12.3 | 36.9 |



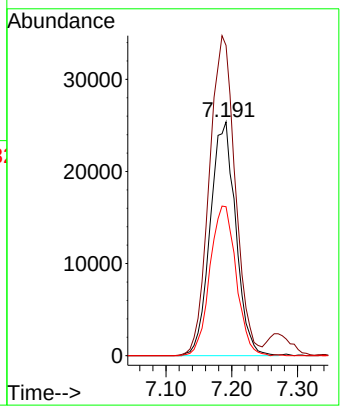


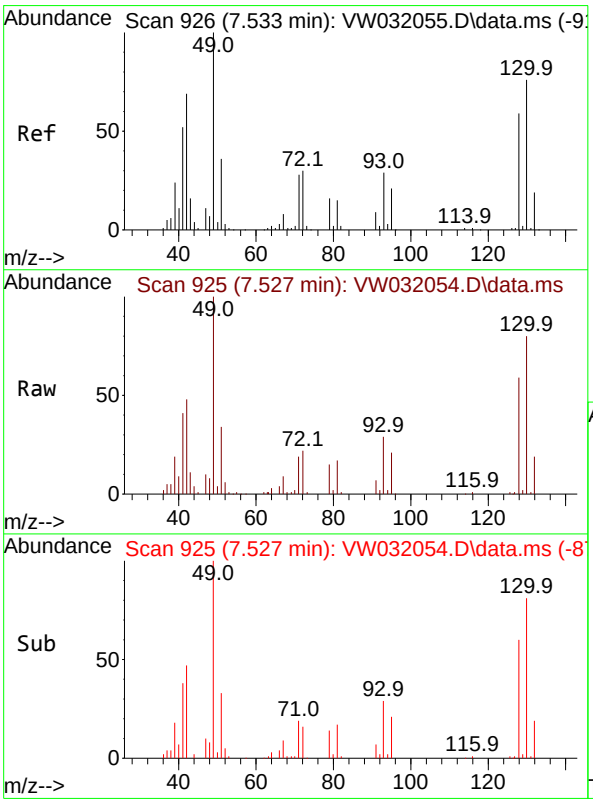

#27
cis-1,2-Dichloroethene
Concen: 20.540 ug/l
RT: 7.191 min Scan# 8
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion: 96 Resp: 68545

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 139.8 | 0.0 | 281.2 |
| 98 | 65.7 | 0.0 | 130.8 |

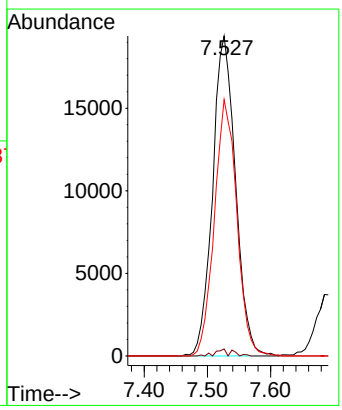


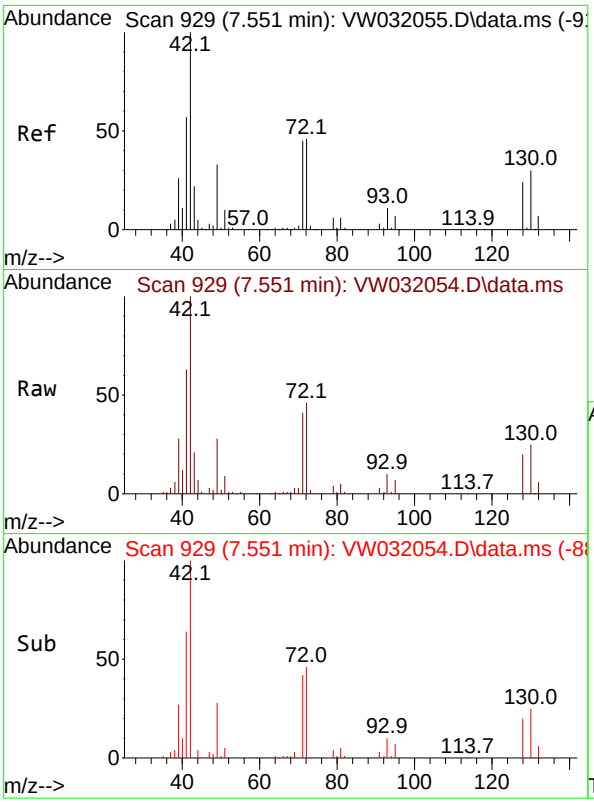




#28
Bromochloromethane
Concen: 20.298 ug/l
RT: 7.527 min Scan# 925
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 49 Resp: 48715

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.0 | 0.0 | 4.2 |
| 130 | 78.4 | 61.9 | 92.9 |



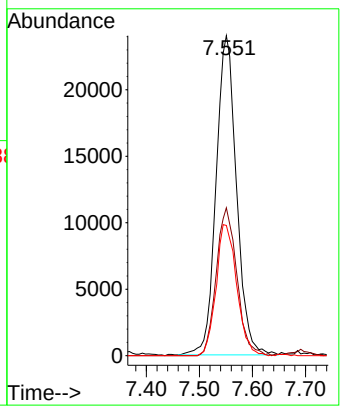


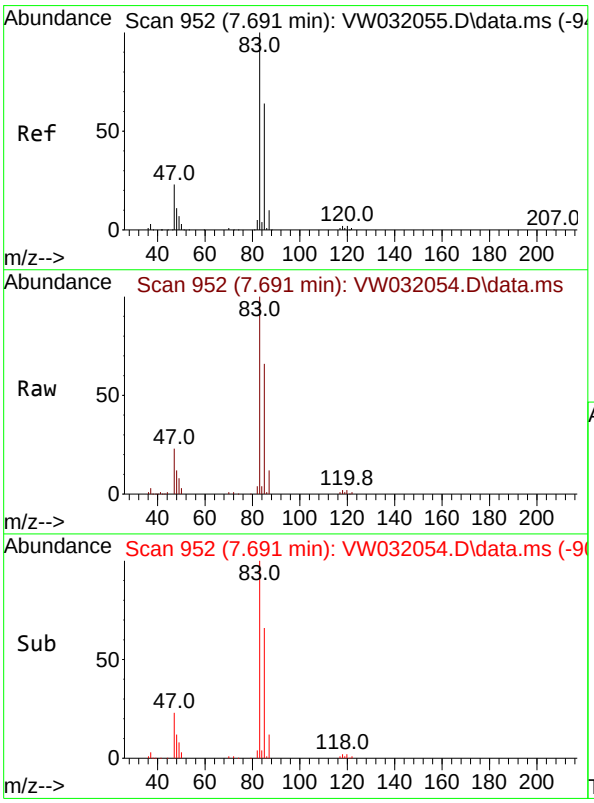

#29
Tetrahydrofuran
Concen: 92.379 ug/l
RT: 7.551 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion: 42 Resp: 64317

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 46.7 | 36.6 | 55.0 |
| 71 | 41.5 | 34.7 | 52.1 |

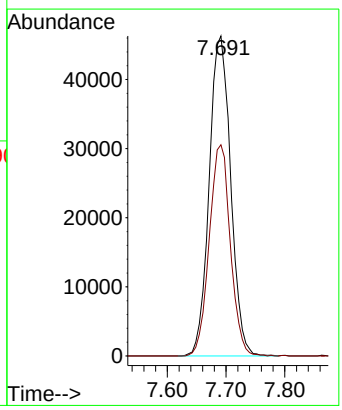


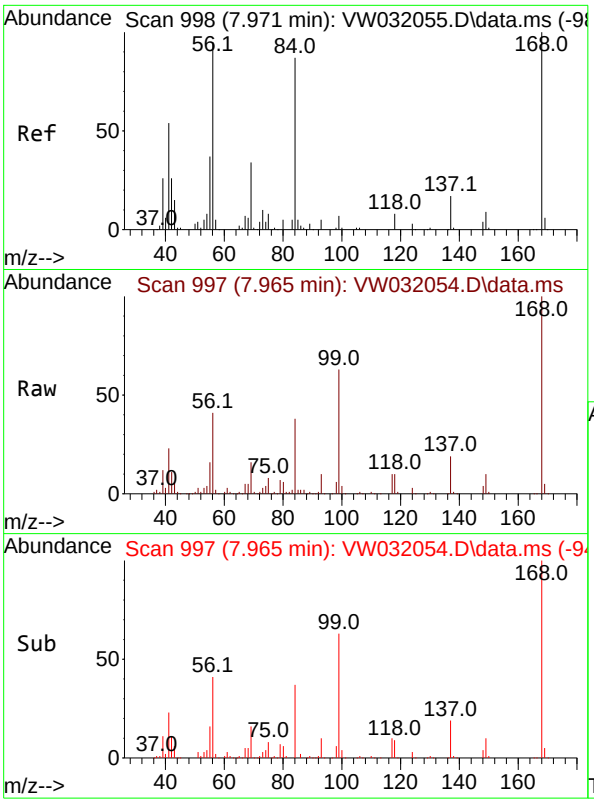




#30
Chloroform
Concen: 21.011 ug/l
RT: 7.691 min Scan# 952
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 83 Resp: 117474

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 66.0 | 51.0 | 76.4 |



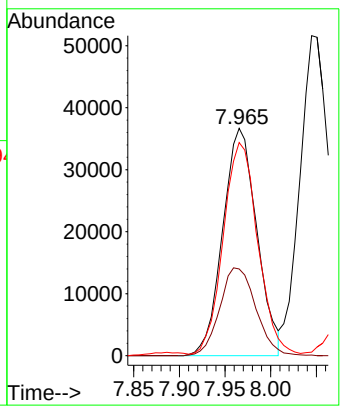


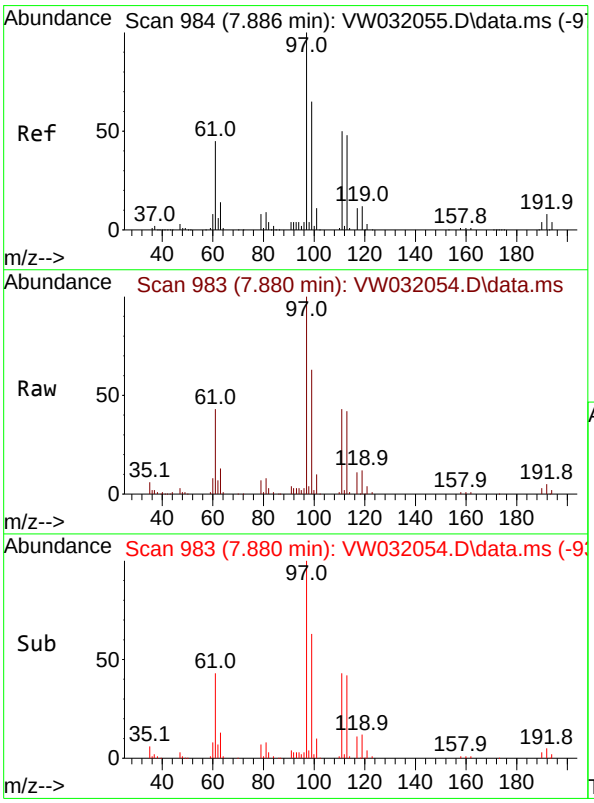

#31
Cyclohexane
Concen: 20.833 ug/l
RT: 7.965 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion: 56 Resp: 95253

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 38.2 | 28.6 | 42.8 |
| 84 | 92.4 | 73.0 | 109.4 |

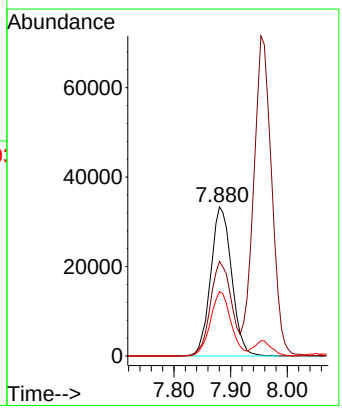


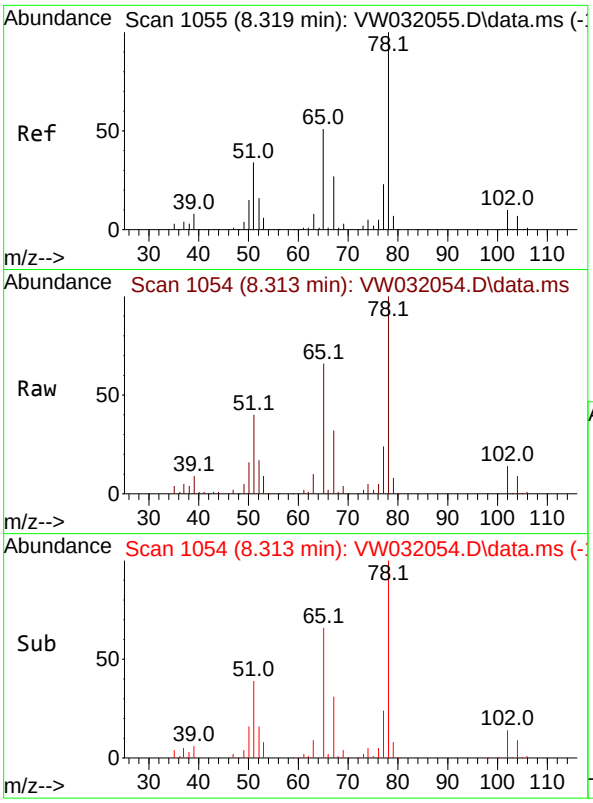




#32
1,1,1-Trichloroethane
Concen: 21.078 ug/l
RT: 7.880 min Scan# 983
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 97 Resp: 85600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.5 | 51.8 | 77.8 |
| 61 | 42.4 | 35.9 | 53.9 |



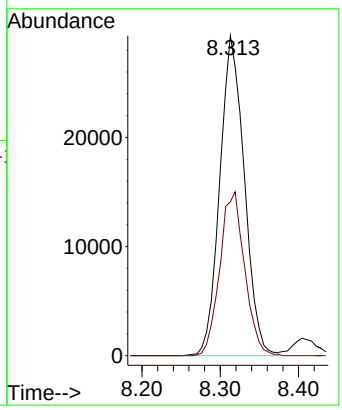


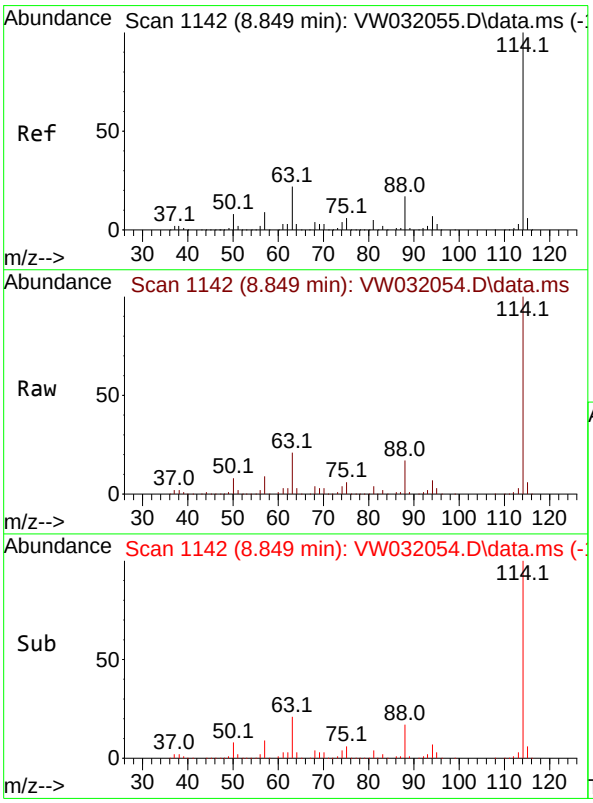

#33
1,2-Dichloroethane-d4
Concen: 19.904 ug/l
RT: 8.313 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion: 65 Resp: 63857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.8 | 0.0 | 102.4 |

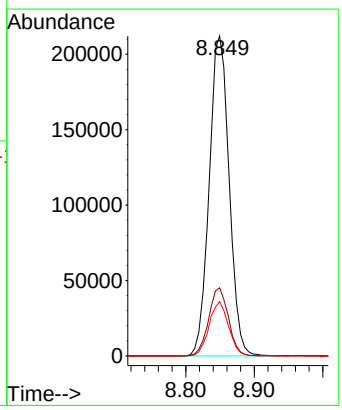


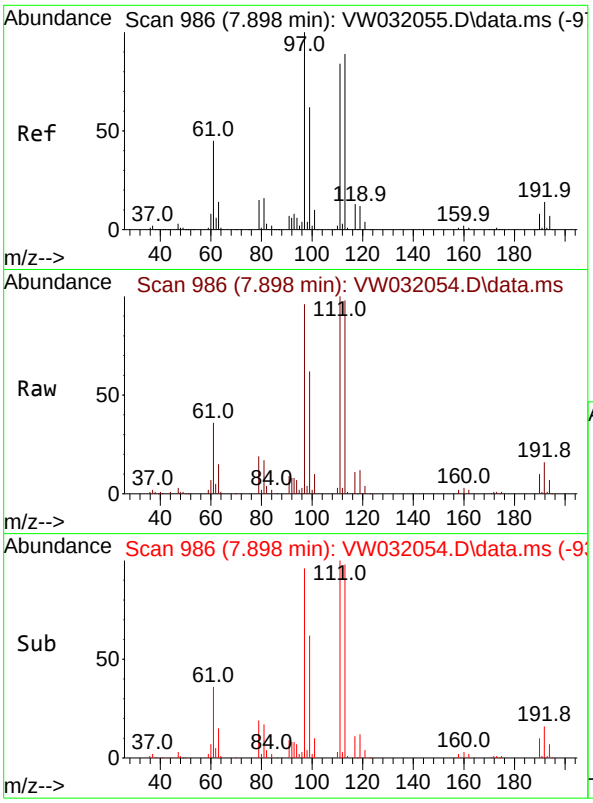




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:114 Resp: 428395

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.3 | 0.0 | 43.0 |
| 88 | 16.9 | 0.0 | 33.8 |



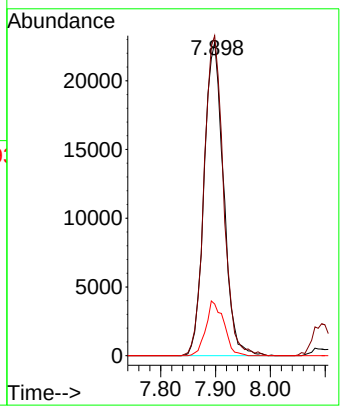


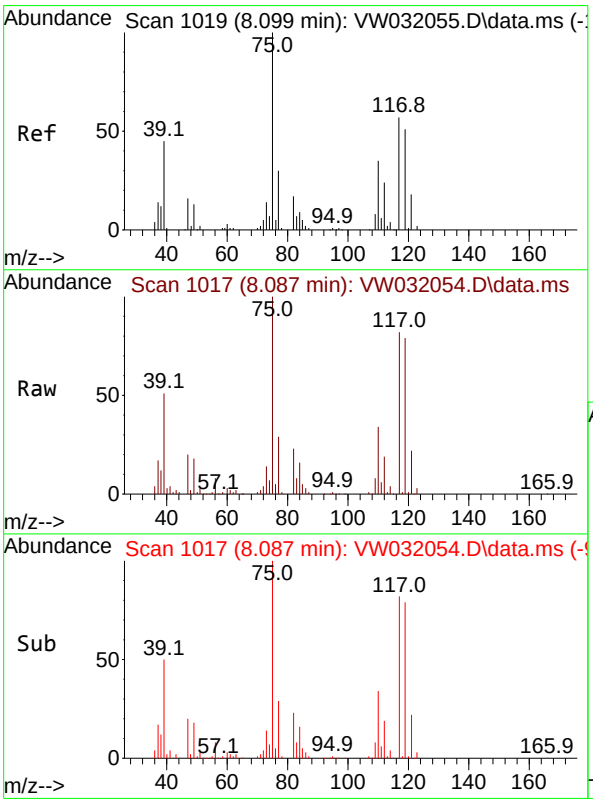

#35
Dibromofluoromethane
Concen: 20.158 ug/l
RT: 7.898 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion:113 Resp: 55788

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.5 | 80.1 | 120.1 |
| 192 | 16.3 | 13.1 | 19.7 |

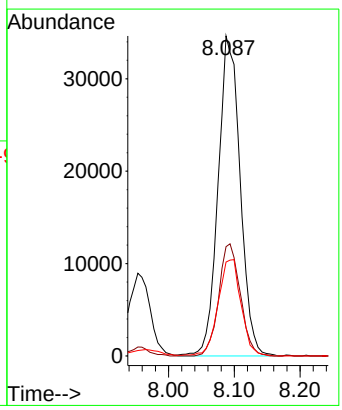


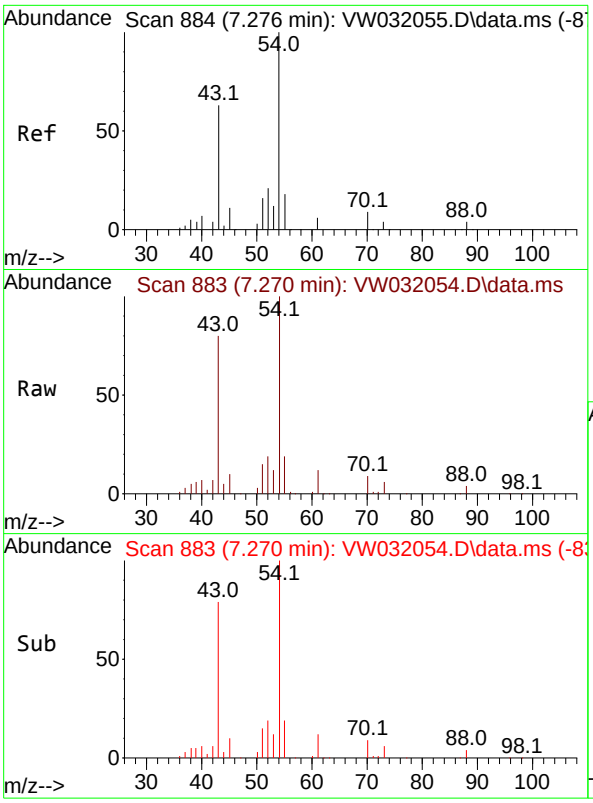




#36
1,1-Dichloropropene
Concen: 20.712 ug/l
RT: 8.087 min Scan# 1017
Delta R.T. -0.012 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 75 Resp: 80811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 34.4 | 17.4 | 52.2 |
| 77 | 31.4 | 24.7 | 37.1 |



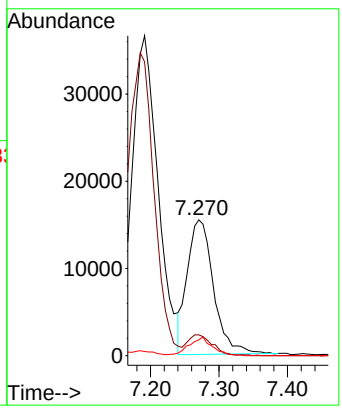


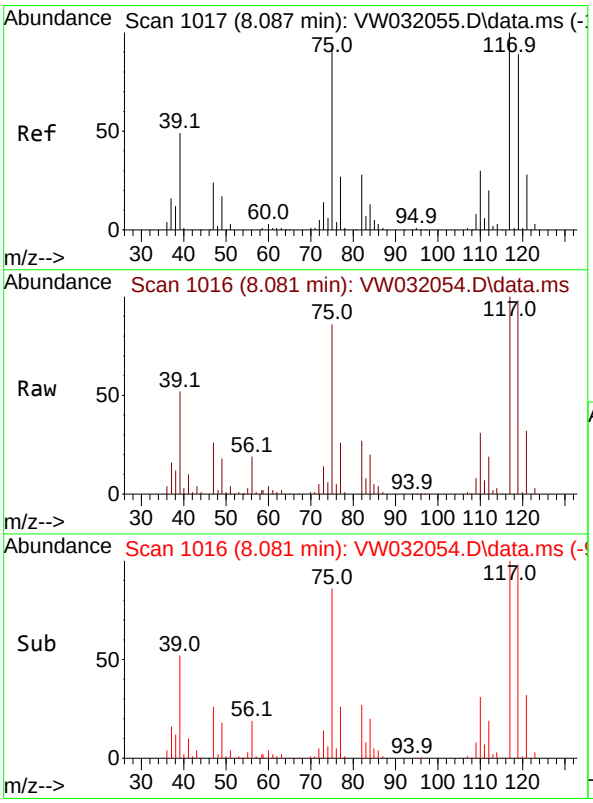

#37
Ethyl Acetate
Concen: 17.945 ug/l
RT: 7.270 min Scan# 8
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion: 43 Resp: 41235

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.7 | 11.8 | 17.6 |
| 70 | 12.3 | 9.4 | 14.0 |

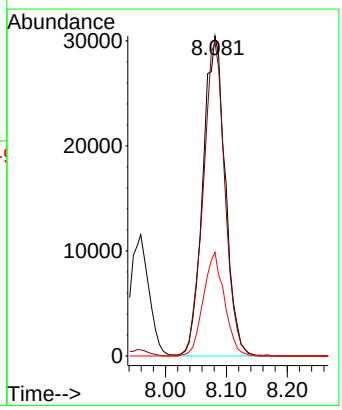


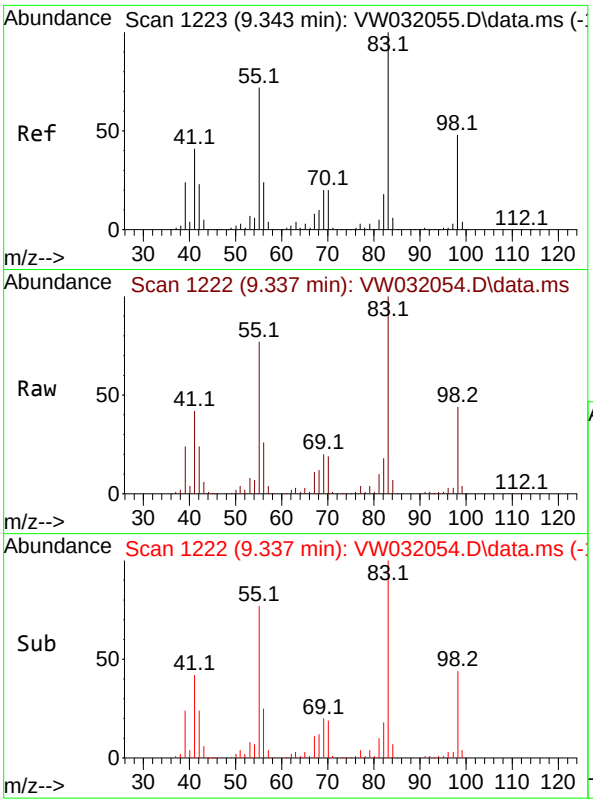




#38
Carbon Tetrachloride
Concen: 20.527 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:117 Resp: 77289

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 97.8 | 71.4 | 107.2 |
| 121 | 32.4 | 22.3 | 33.5 |



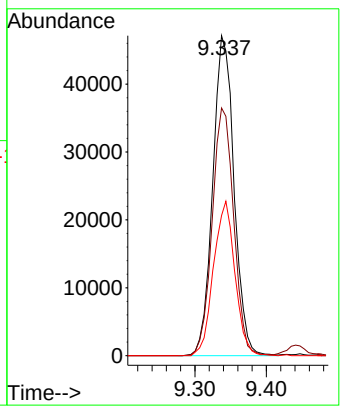


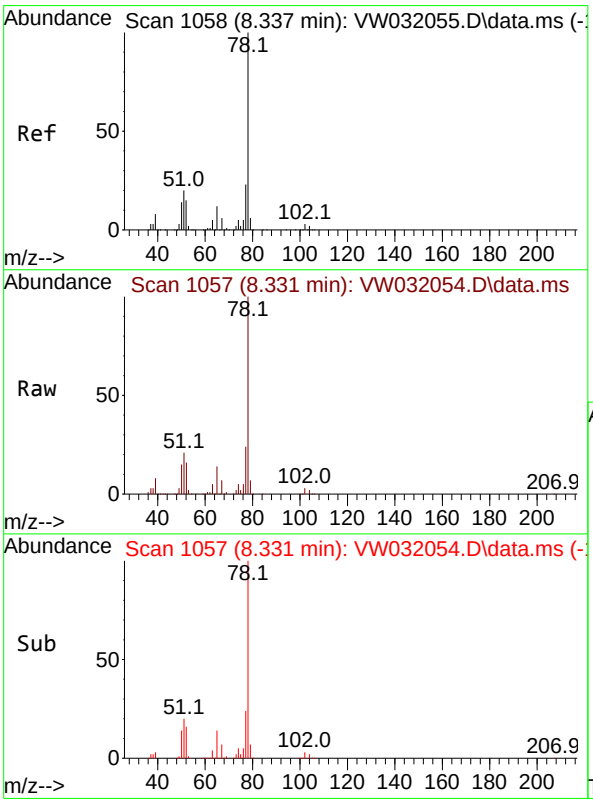

#39
Methylcyclohexane
Concen: 20.484 ug/l
RT: 9.337 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion: 83 Resp: 97412

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 77.4 | 57.9 | 86.9 |
| 98 | 43.8 | 38.3 | 57.5 |

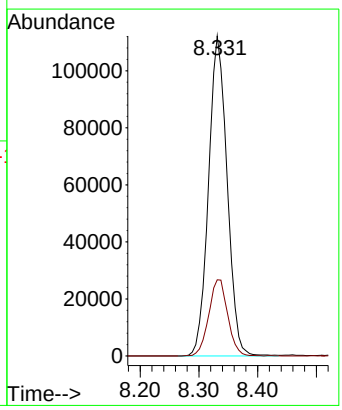


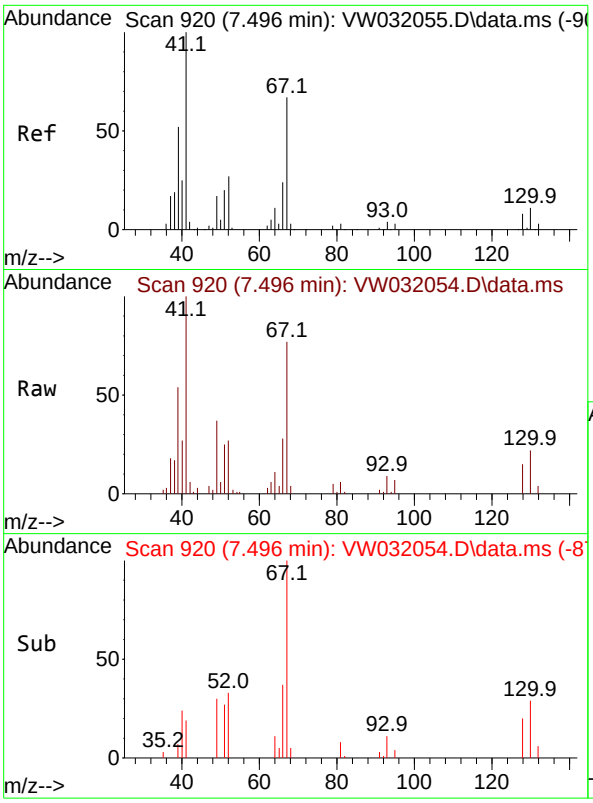




#40
Benzene
Concen: 20.333 ug/l
RT: 8.331 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 78 Resp: 246590

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.8 | 18.4 | 27.6 |



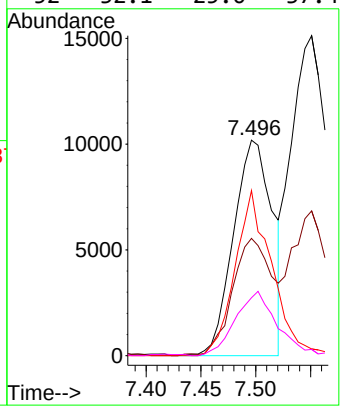


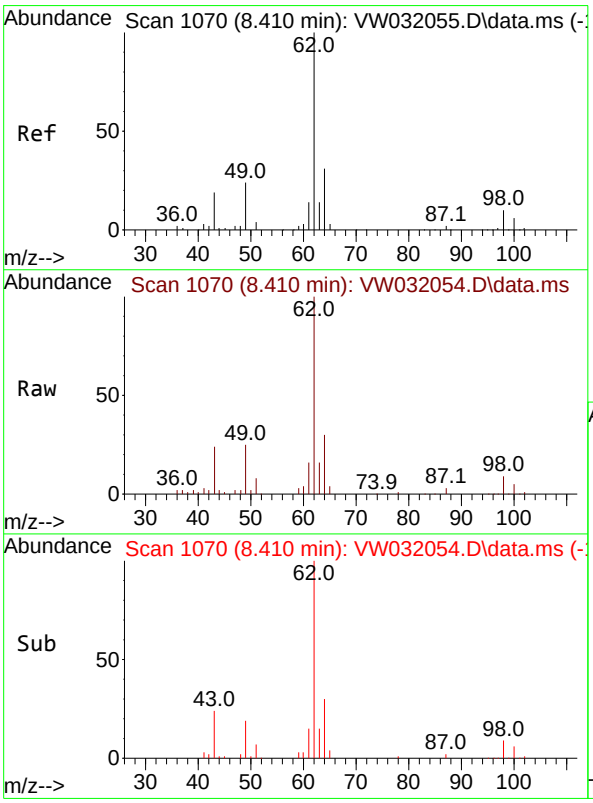

#41
Methacrylonitrile
Concen: 19.242 ug/l
RT: 7.496 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion: 41 Resp: 25075

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 55.4 | 42.6 | 63.8 |
| 67 | 73.2 | 61.0 | 91.4 |
| 52 | 32.1 | 25.0 | 37.4 |

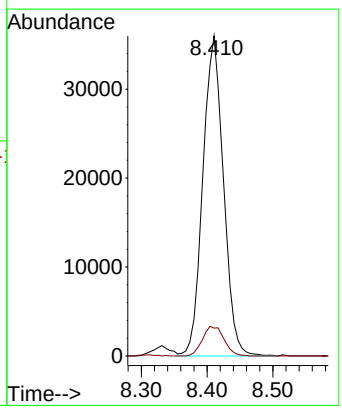


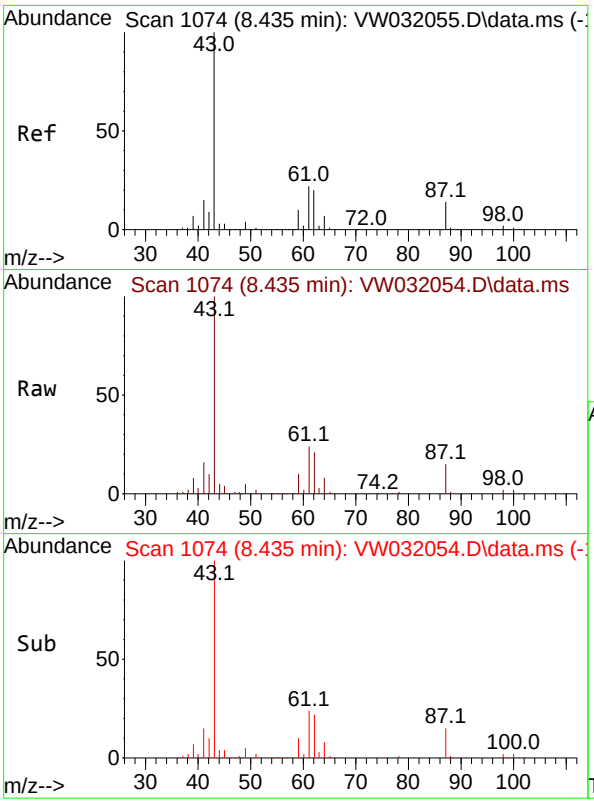




#42
1,2-Dichloroethane
Concen: 20.239 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 62 Resp: 78543

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.7 | 0.0 | 19.8 |



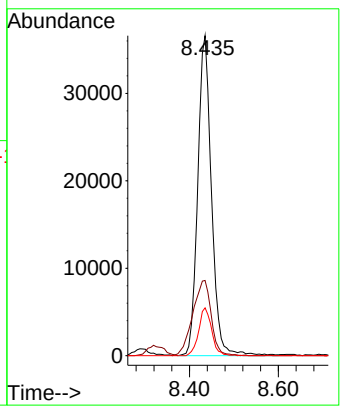


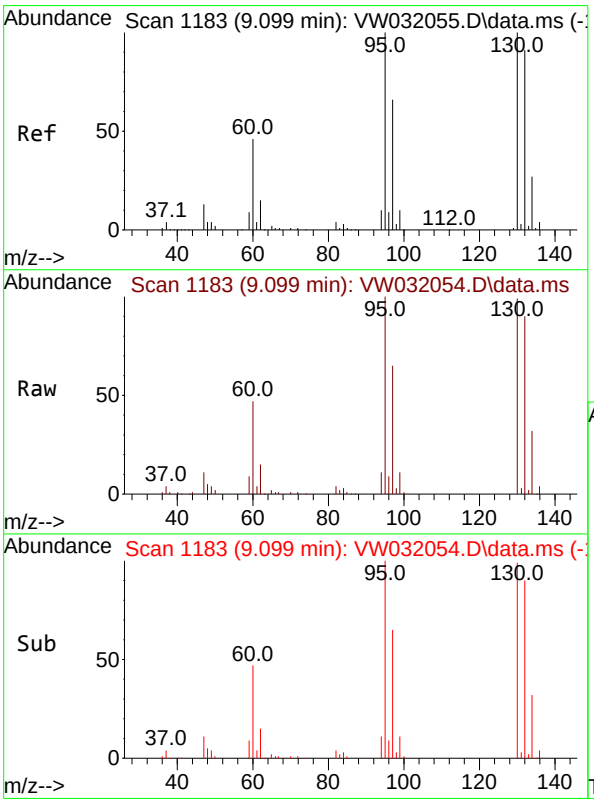

#43
Isopropyl Acetate
Concen: 18.660 ug/l
RT: 8.435 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion: 43 Resp: 78887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 31.3 | 23.8 | 35.8 |
| 87 | 14.1 | 11.7 | 17.5 |

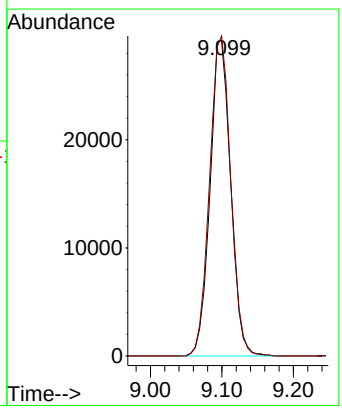


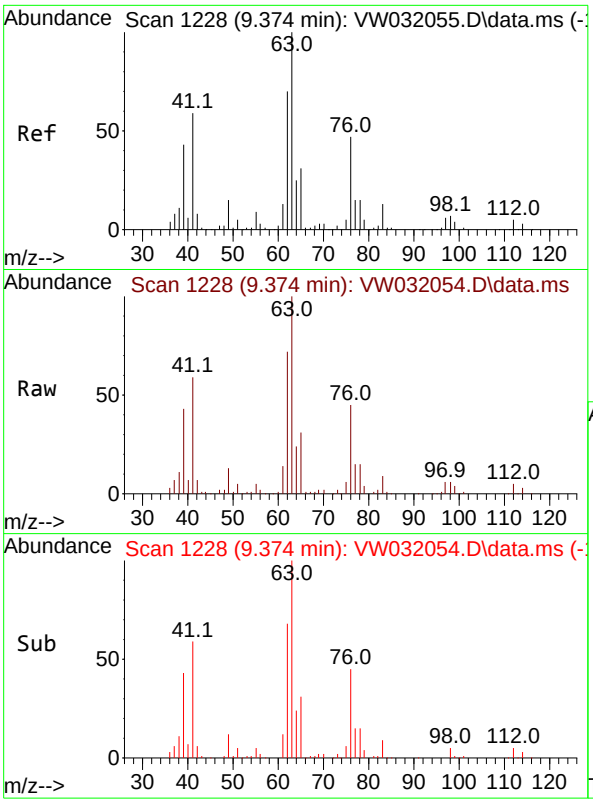




#44
Trichloroethene
Concen: 20.302 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:130 Resp: 58636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 101.3 | 0.0 | 200.6 |



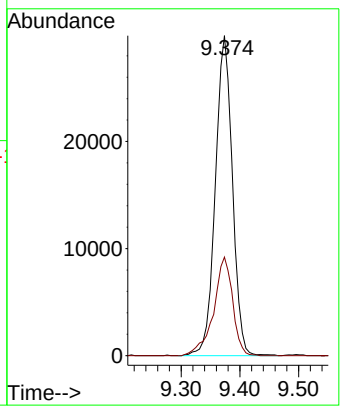


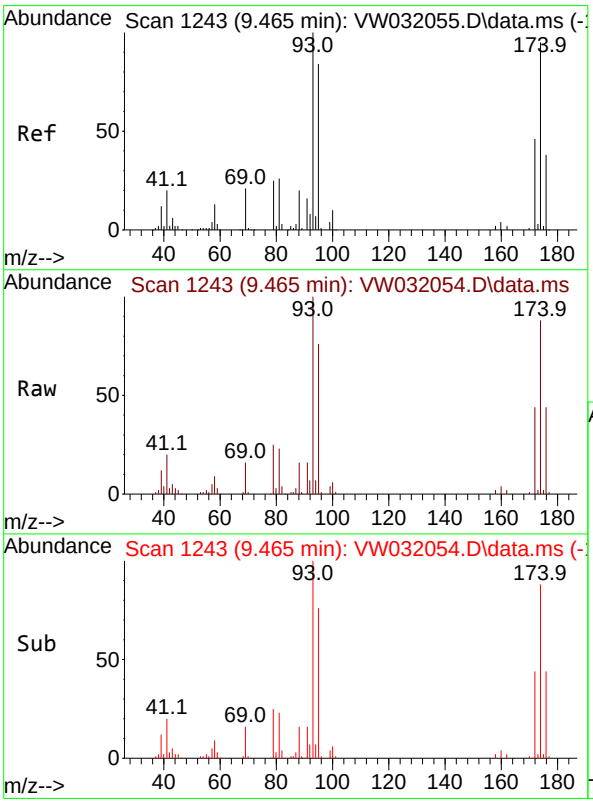

#45
1,2-Dichloropropane
Concen: 20.597 ug/l
RT: 9.374 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion: 63 Resp: 60346

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.8 | 24.6 | 36.8 |

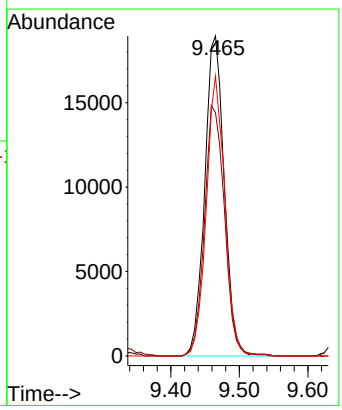


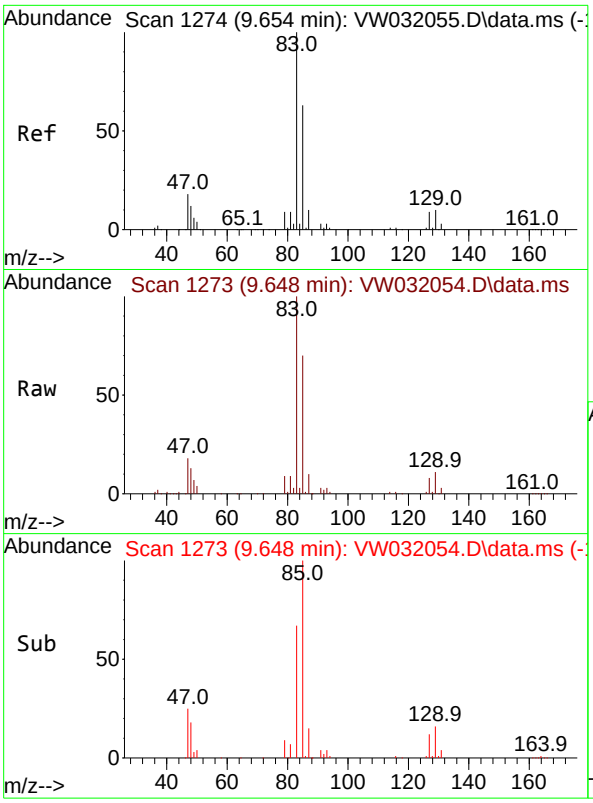




#46
Dibromomethane
Concen: 19.873 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 93 Resp: 37580

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 80.1 | 65.3 | 97.9 |
| 174 | 83.3 | 68.6 | 102.8 |



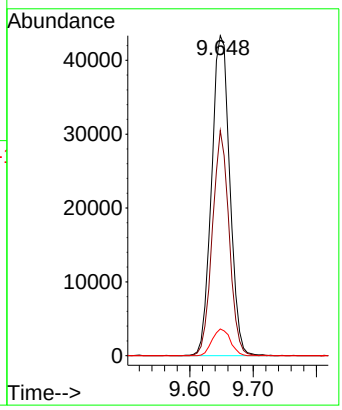


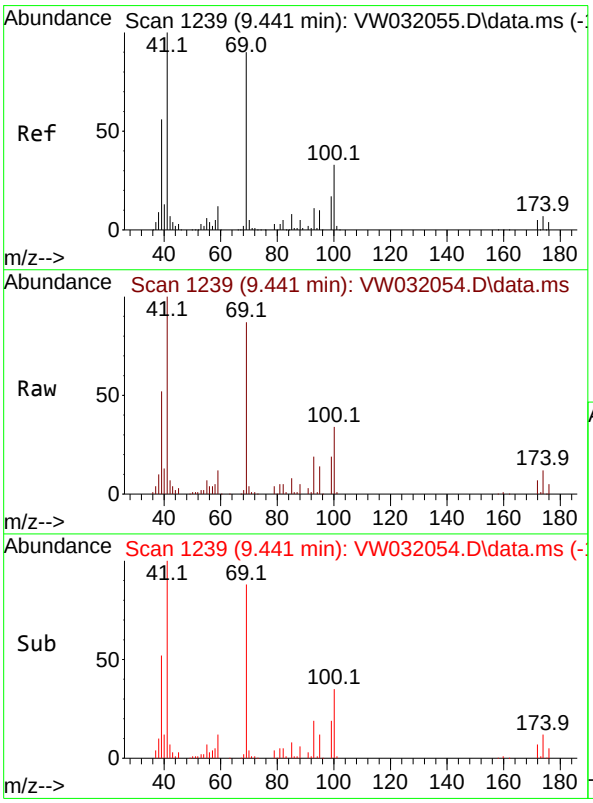

#47
Bromodichloromethane
Concen: 19.869 ug/l
RT: 9.648 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion: 83 Resp: 86577

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 70.4 | 50.6 | 75.8 |
| 127 | 8.3 | 6.9 | 10.3 |

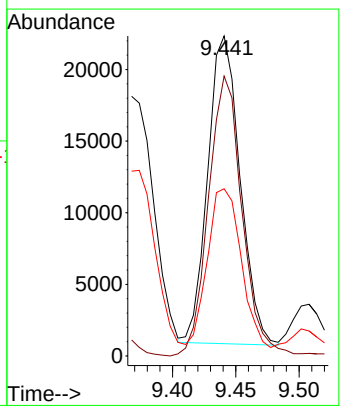


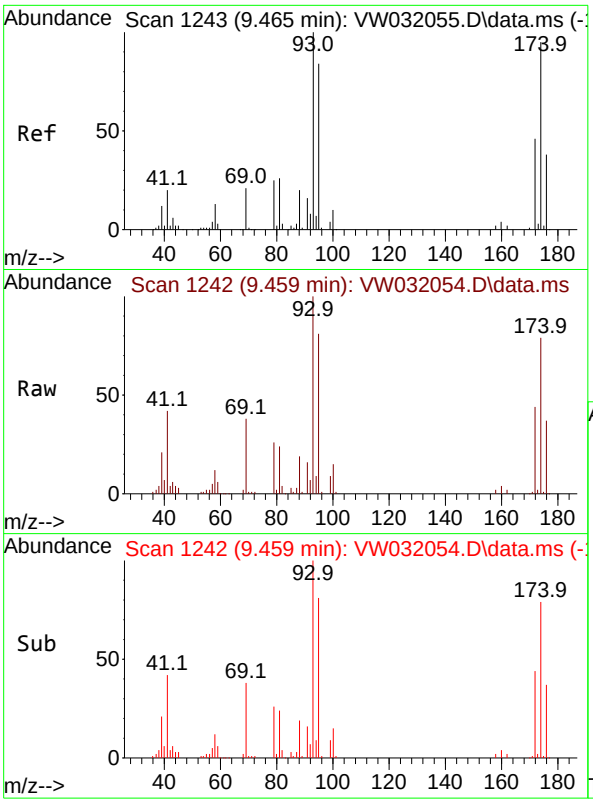




#48
Methyl methacrylate
Concen: 18.704 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 41 Resp: 38175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 94.6 | 73.0 | 109.6 |
| 39 | 53.7 | 45.0 | 67.4 |



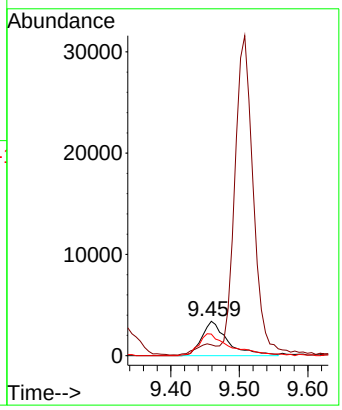


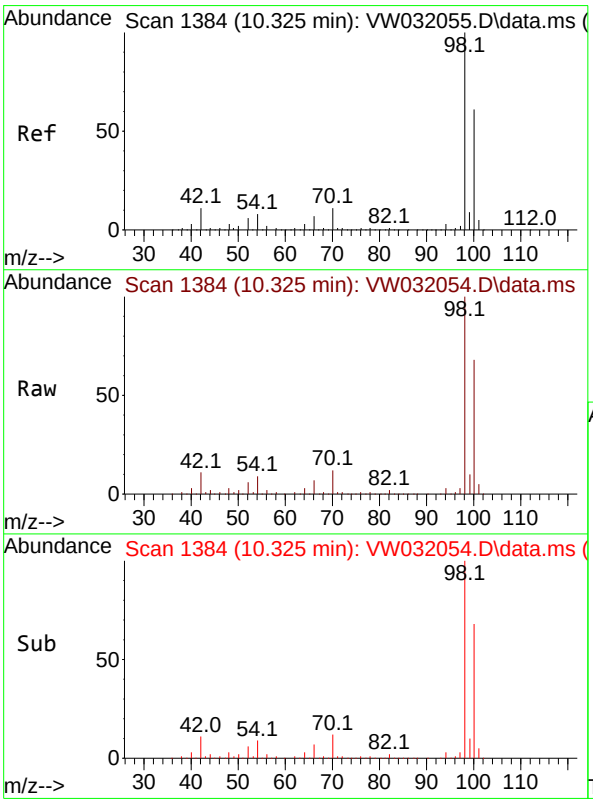

#49
1,4-Dioxane
Concen: 364.998 ug/l
RT: 9.459 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion: 88 Resp: 8924

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 24.7 | 20.6 | 30.8 |
| 58 | 78.5 | 60.4 | 90.6 |

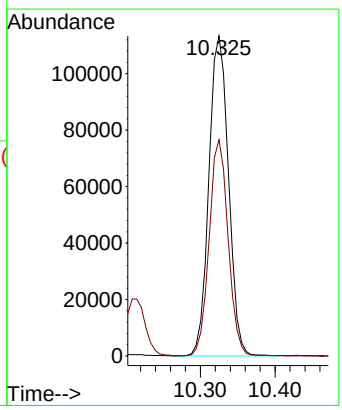


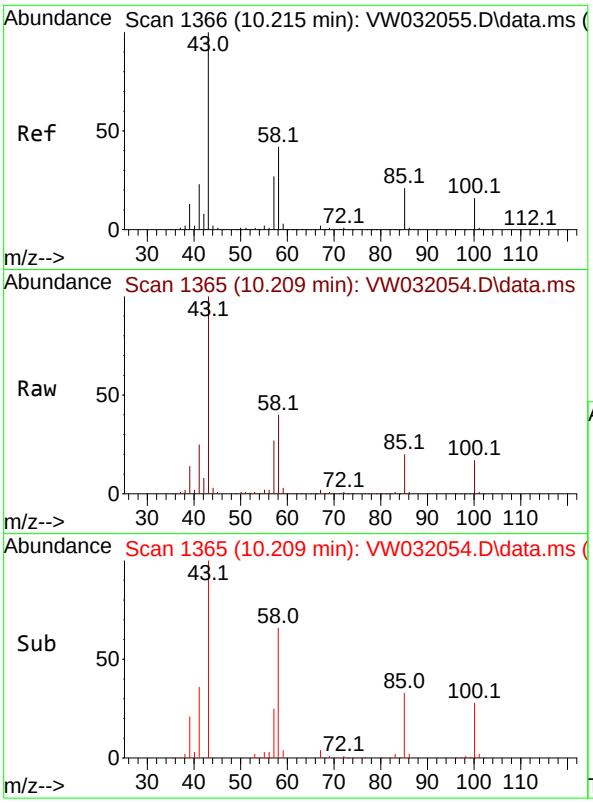




#50
Toluene-d8
Concen: 20.212 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 98 Resp: 206901

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.5 | 51.1 | 76.7 |



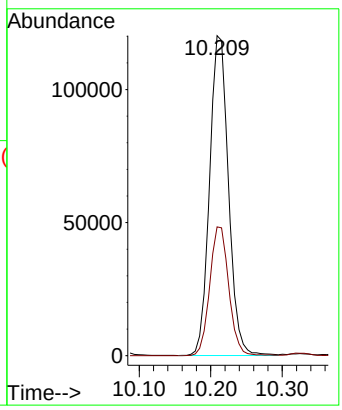


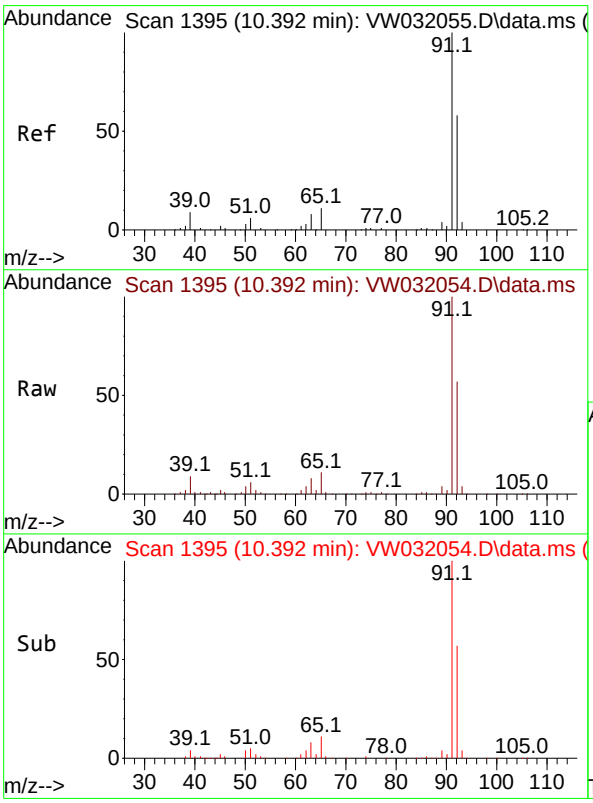

#51
4-Methyl-2-Pentanone
Concen: 92.472 ug/l
RT: 10.209 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion: 43 Resp: 220661

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 40.7 | 33.1 | 49.7 |

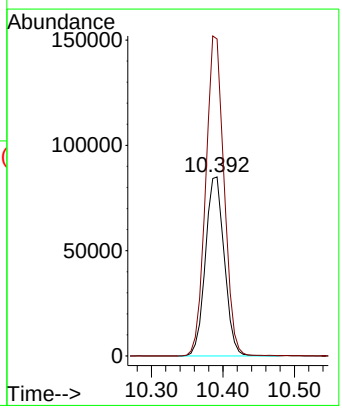


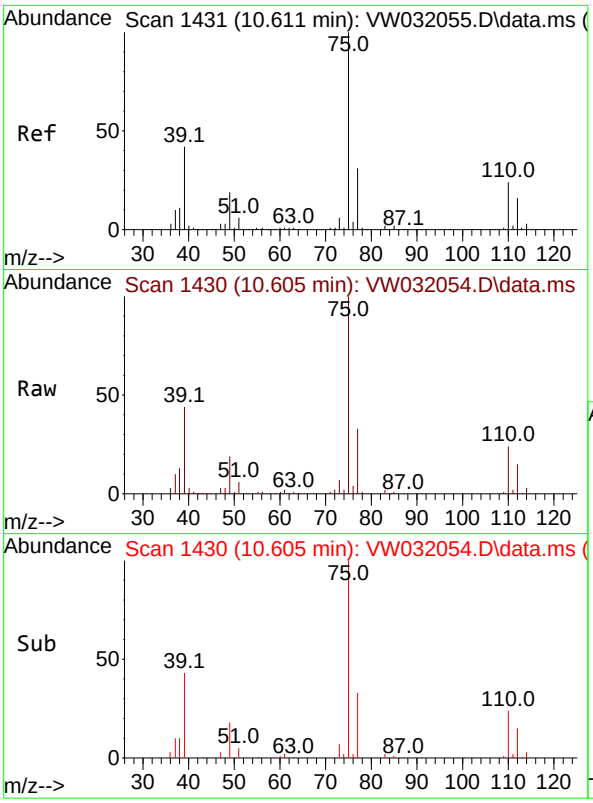




#52
Toluene
Concen: 20.418 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 92 Resp: 155974

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 173.6 | 136.3 | 204.5 |



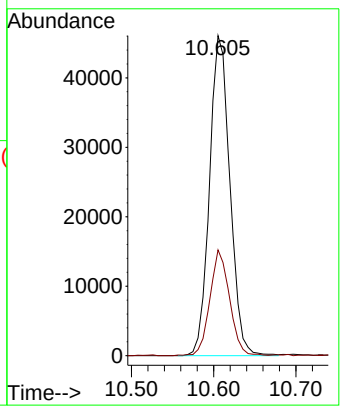


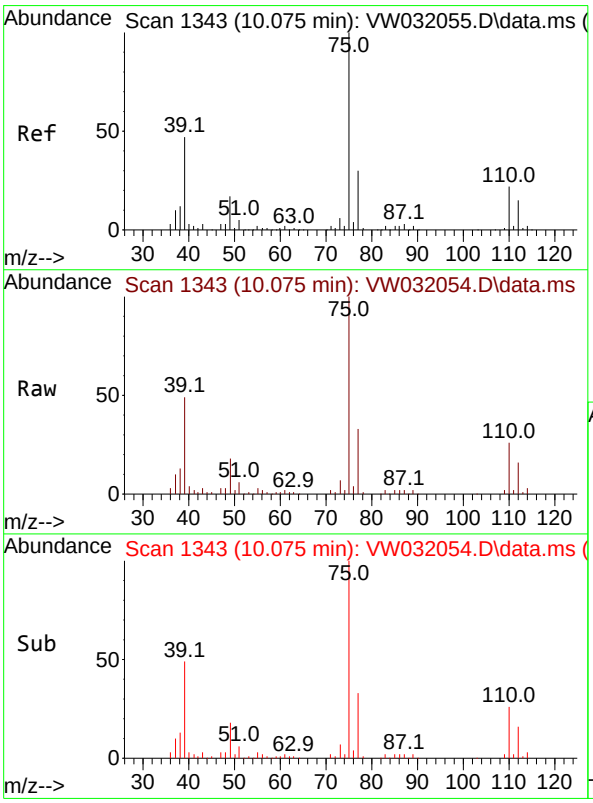

#53
t-1,3-Dichloropropene
Concen: 19.463 ug/l
RT: 10.605 min Scan# 14
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion: 75 Resp: 79452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.9 | 25.0 | 37.6 |

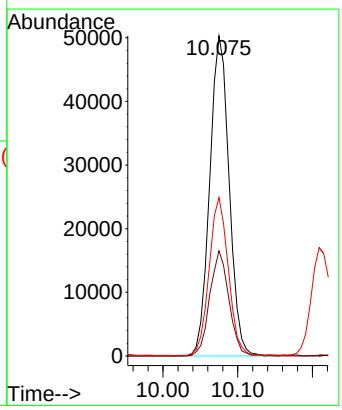


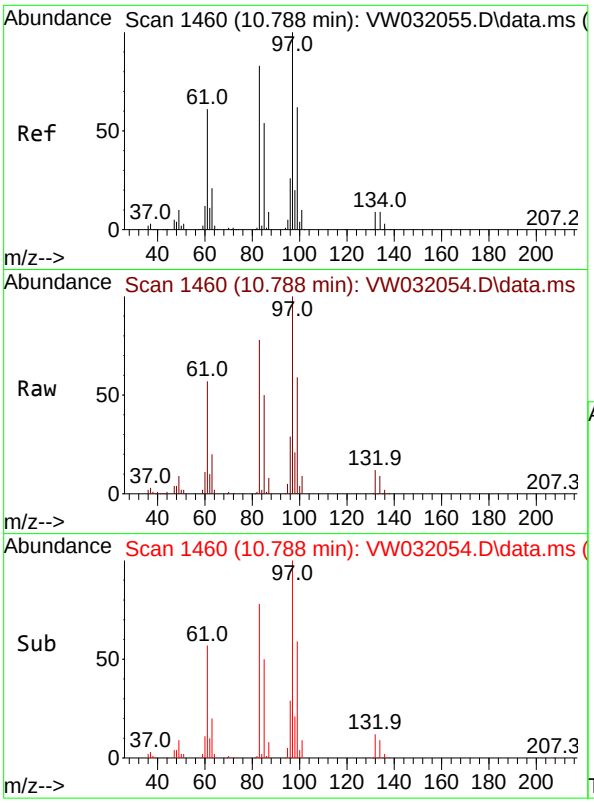




#54
cis-1,3-Dichloropropene
Concen: 19.612 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 75 Resp: 90828

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.9 | 24.0 | 36.0 |
| 39 | 49.3 | 37.8 | 56.8 |



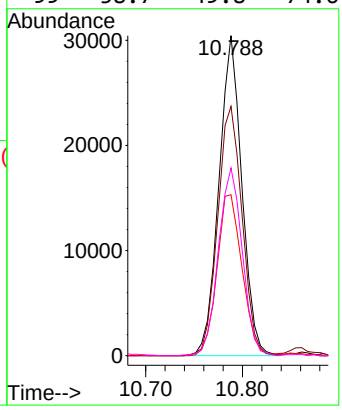


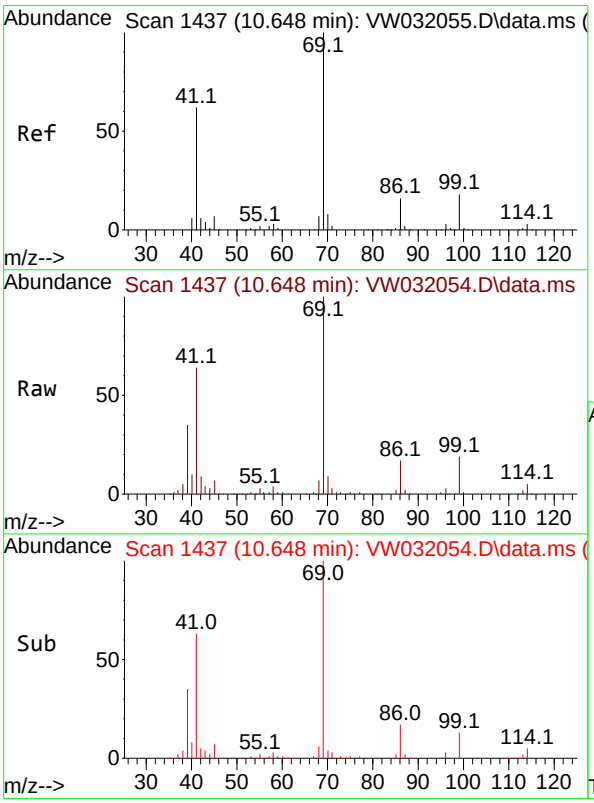

#55
1,1,2-Trichloroethane
Concen: 19.888 ug/l
RT: 10.788 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion: 97 Resp: 49974

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 77.9 | 66.4 | 99.6 |
| 85 | 50.3 | 43.1 | 64.7 |
| 99 | 58.7 | 49.8 | 74.6 |

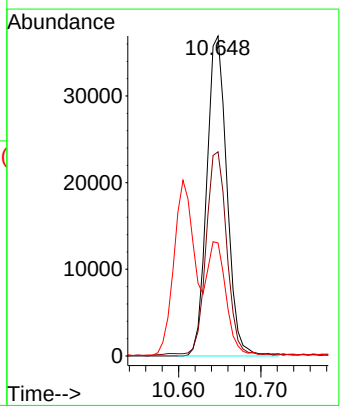


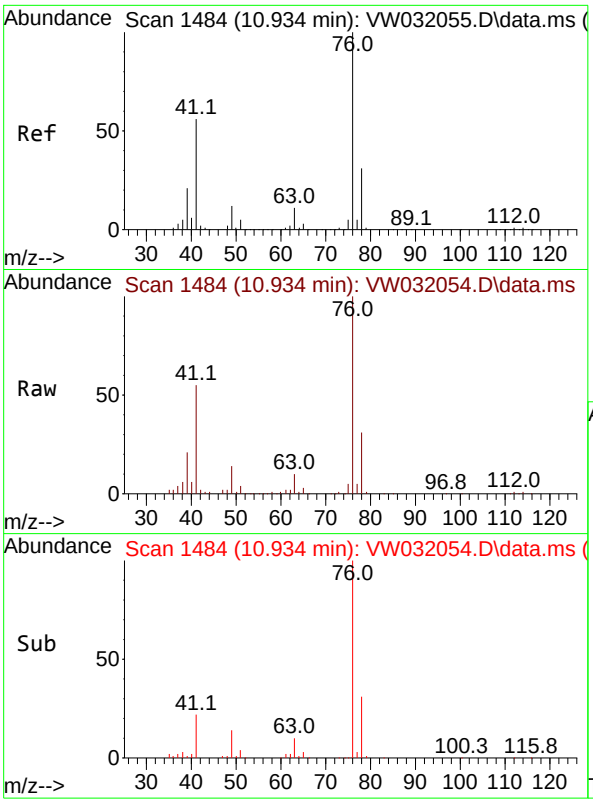




#56
Ethyl methacrylate
Concen: 18.645 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 69 Resp: 62694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 67.2 | 51.2 | 76.8 |
| 39 | 31.8 | 25.4 | 38.0 |



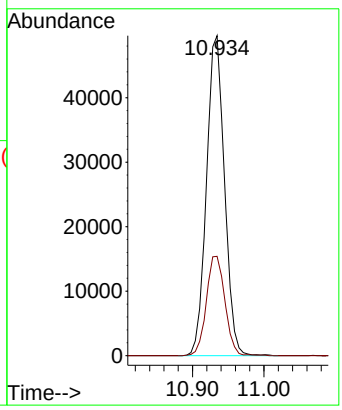


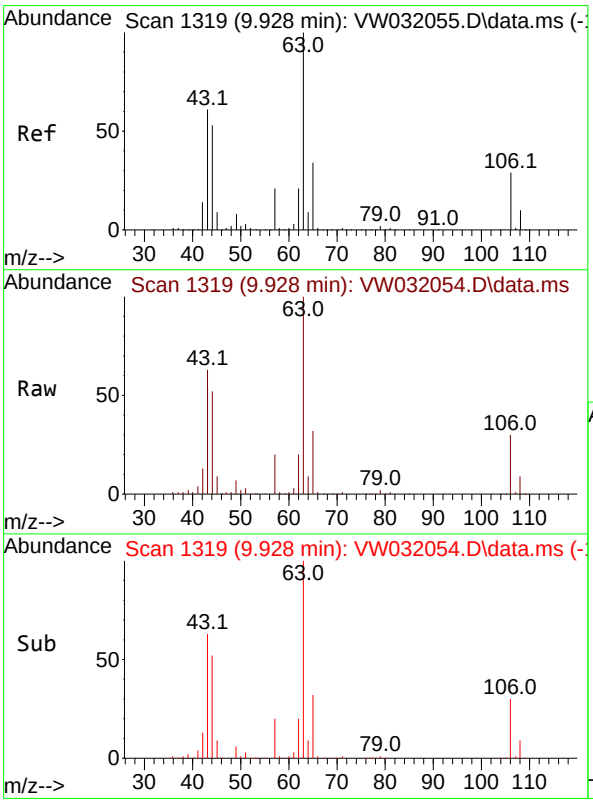

#57
1,3-Dichloropropane
Concen: 19.790 ug/l
RT: 10.934 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion: 76 Resp: 86678

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.2 | 25.8 | 38.6 |

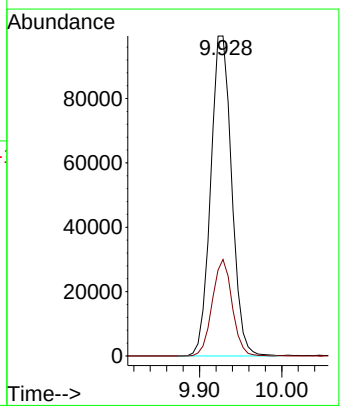


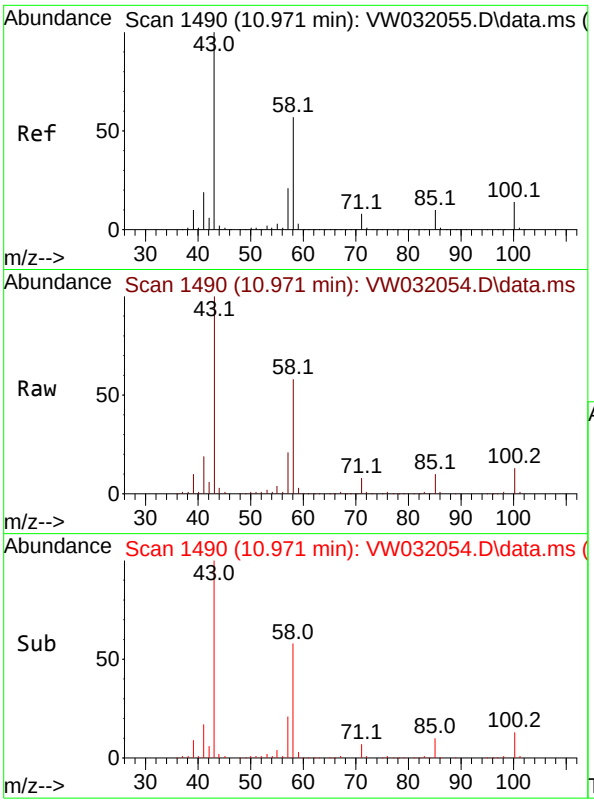




#58
2-Chloroethyl Vinyl ether
Concen: 94.809 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 63 Resp: 176339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 28.5 | 23.5 | 35.3 |



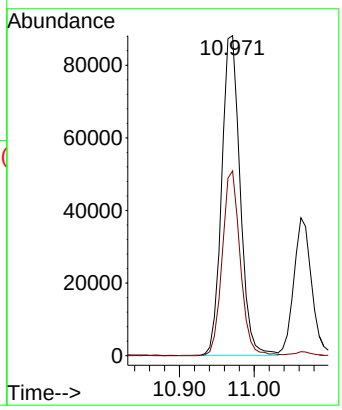


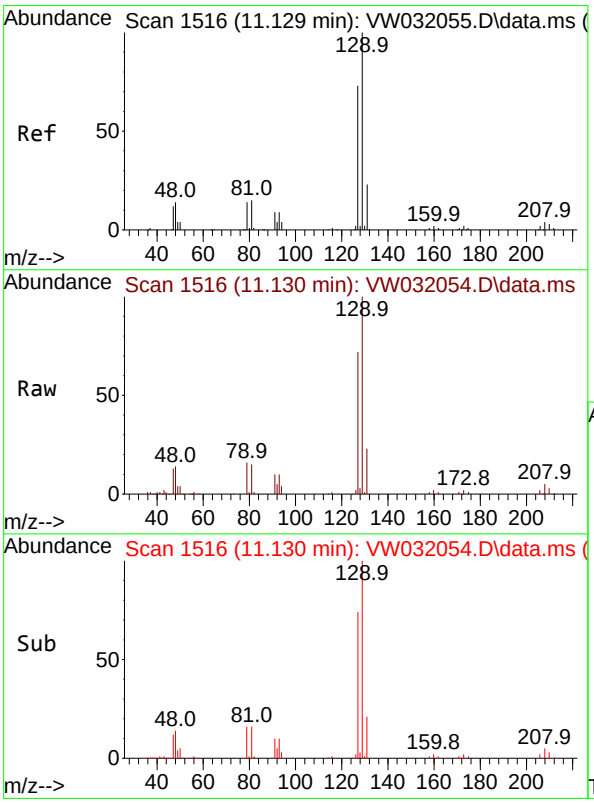

#59
2-Hexanone
Concen: 91.530 ug/l
RT: 10.971 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion: 43 Resp: 151264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 56.4 | 28.3 | 85.0 |

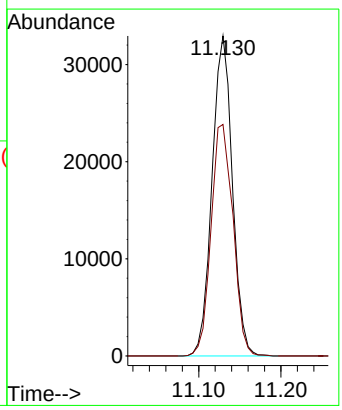


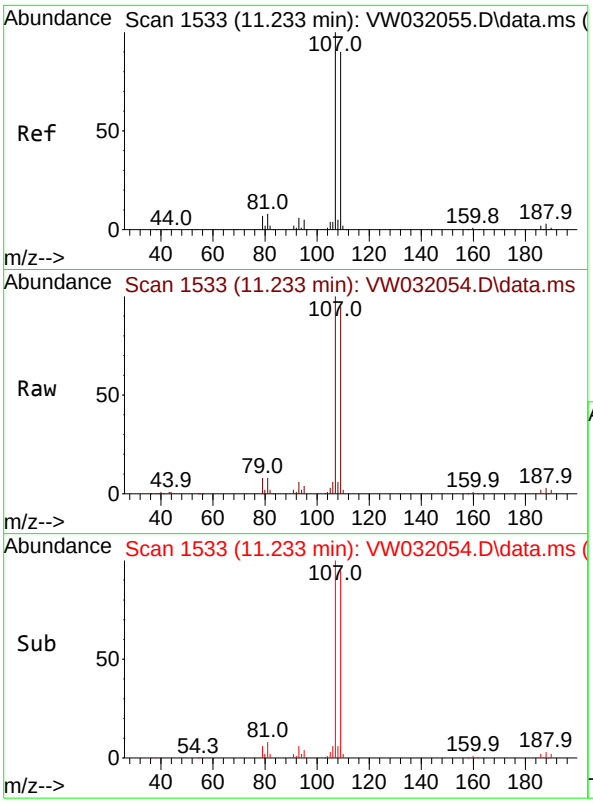




#60
Dibromochloromethane
Concen: 19.721 ug/l
RT: 11.130 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:129 Resp: 56607

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.0 | 39.0 | 116.9 |



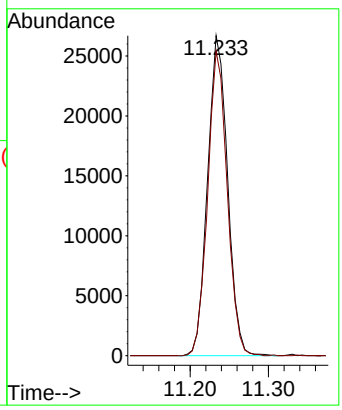


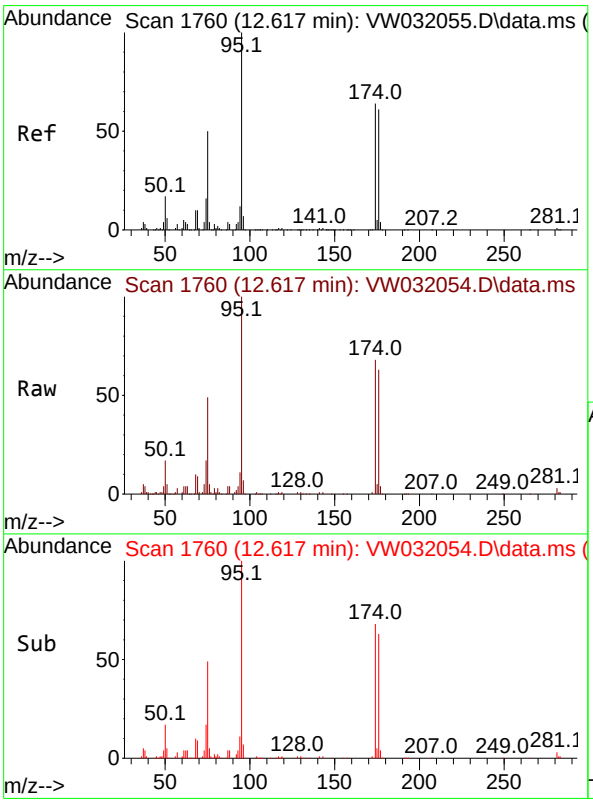

#61
1,2-Dibromoethane
Concen: 19.371 ug/l
RT: 11.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion:107 Resp: 47302

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.0 | 74.2 | 111.4 |

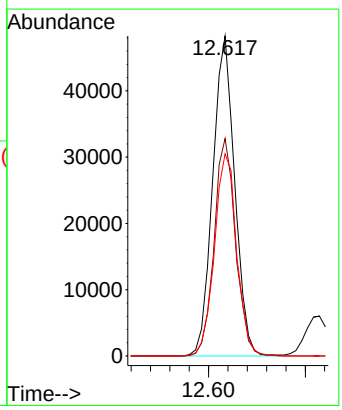


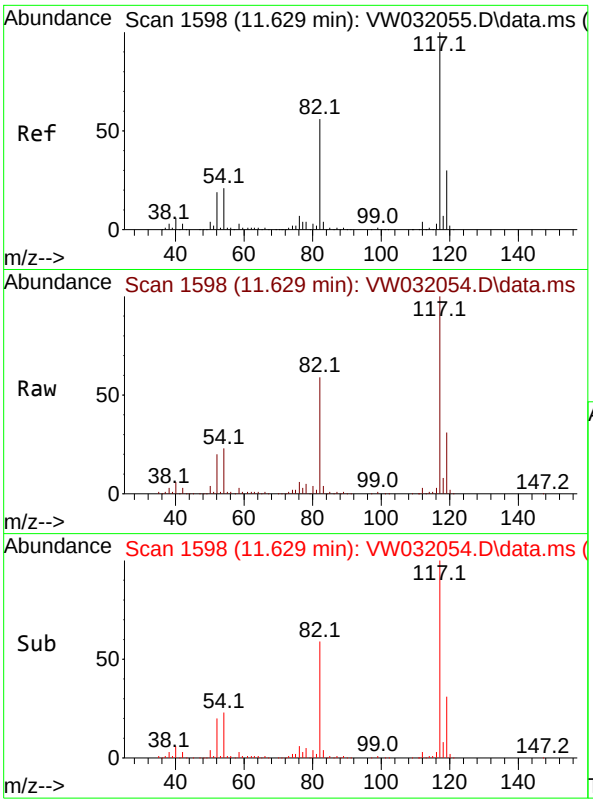




#62
4-Bromofluorobenzene
Concen: 20.149 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 95 Resp: 76008

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 66.3 | 0.0 | 129.0 |
| 176 | 64.1 | 0.0 | 124.6 |



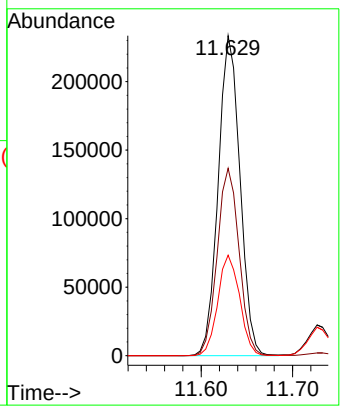


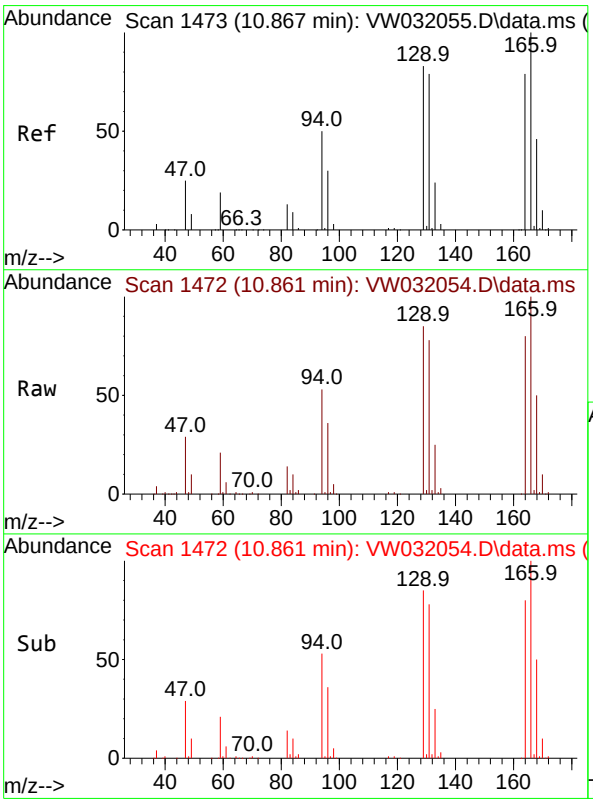

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion:117 Resp: 386857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 58.5 | 45.0 | 67.4 |
| 119 | 31.4 | 24.2 | 36.4 |

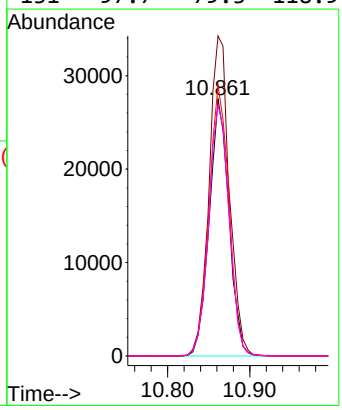


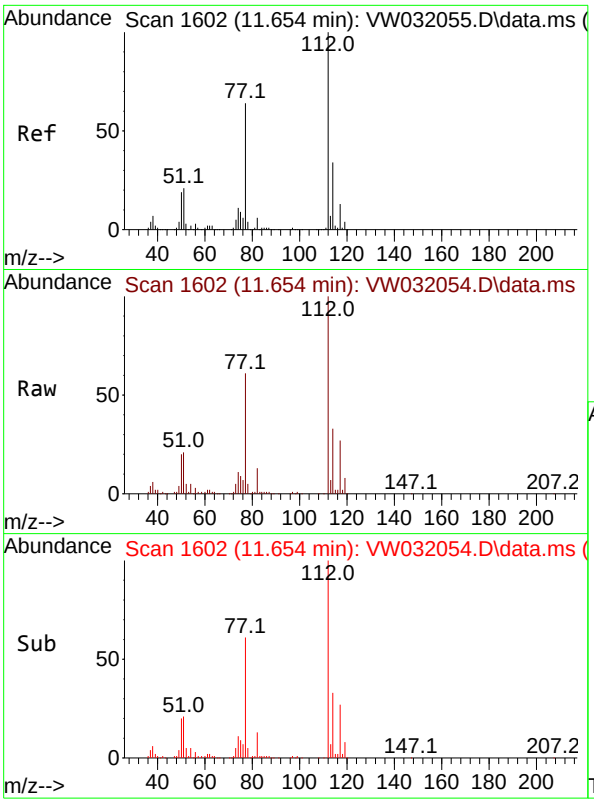




#64
Tetrachloroethene
Concen: 20.434 ug/l
RT: 10.861 min Scan# 1472
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:164 Resp: 45660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 124.7 | 100.9 | 151.3 |
| 129 | 105.4 | 83.6 | 125.4 |
| 131 | 97.7 | 79.3 | 118.9 |



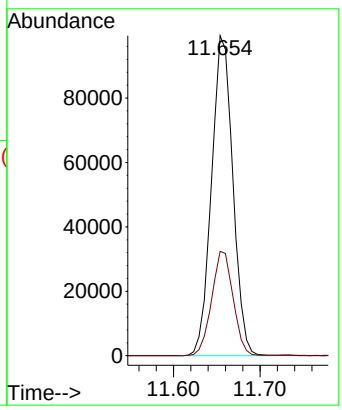


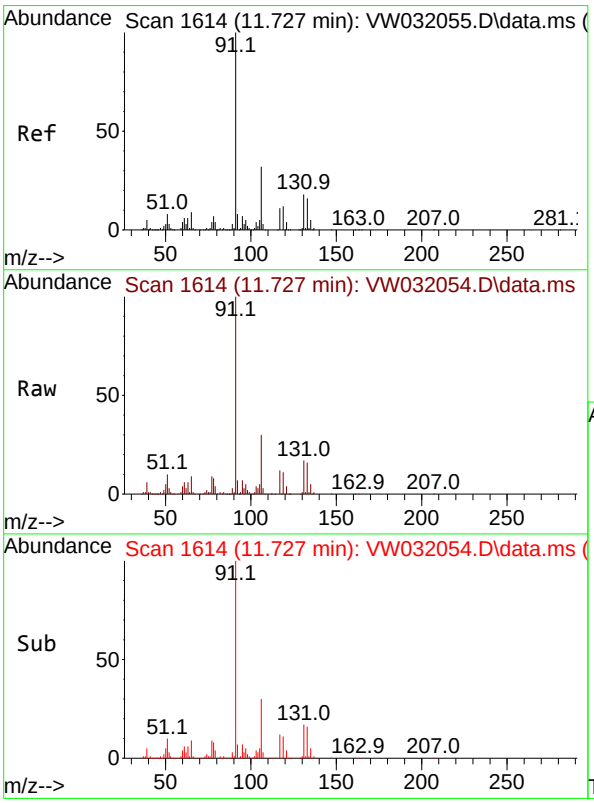

#65
Chlorobenzene
Concen: 20.169 ug/l
RT: 11.654 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion:112 Resp: 169830

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.6 | 26.9 | 40.3 |

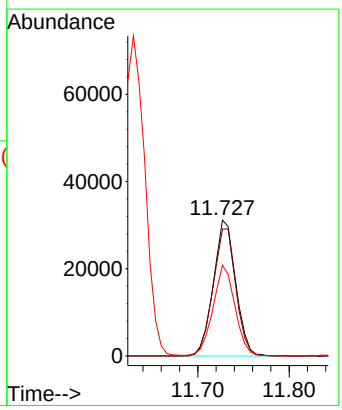


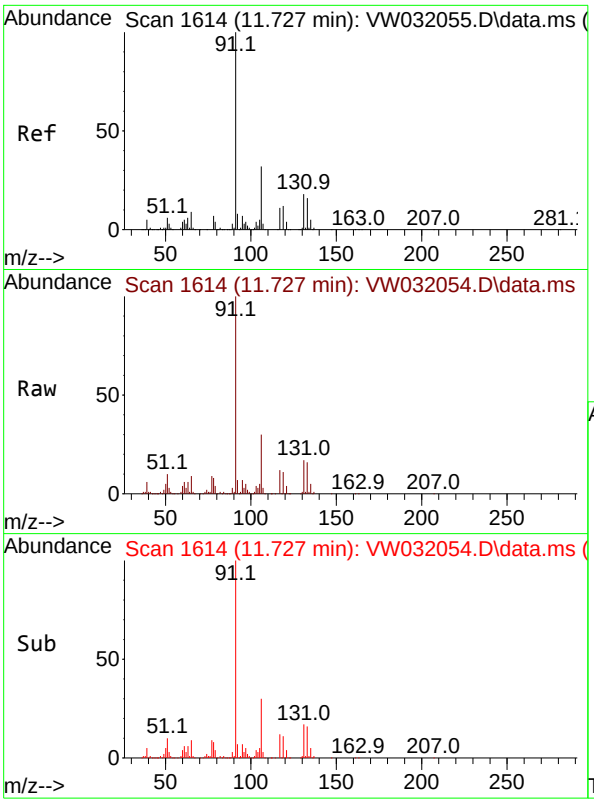




#66
1,1,1,2-Tetrachloroethane
Concen: 20.150 ug/l
RT: 11.727 min Scan# 1614
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:131 Resp: 52937

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.2 | 47.3 | 142.0 |
| 119 | 65.6 | 34.5 | 103.5 |



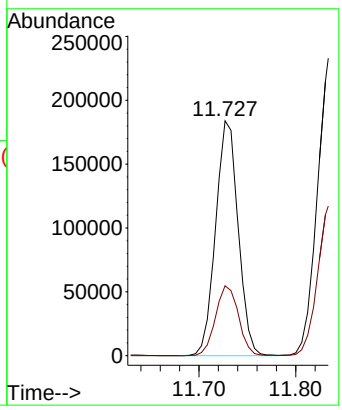


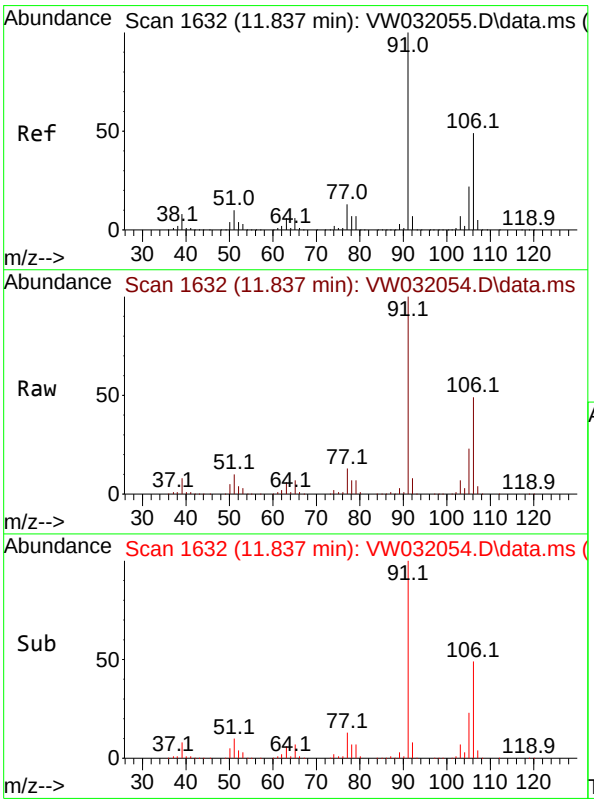

#67
Ethyl Benzene
Concen: 20.836 ug/l
RT: 11.727 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion: 91 Resp: 297193

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.8 | 25.4 | 38.0 |

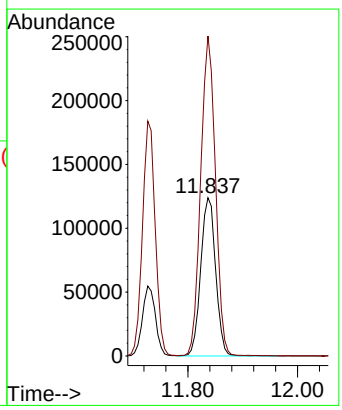


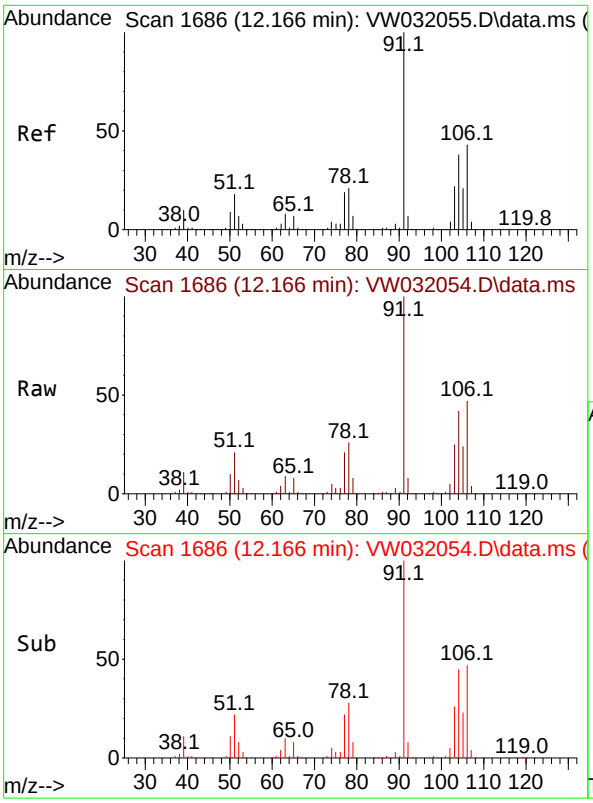




#68
m/p-Xylenes
Concen: 42.376 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:106 Resp: 233224

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 199.8 | 162.2 | 243.2 |



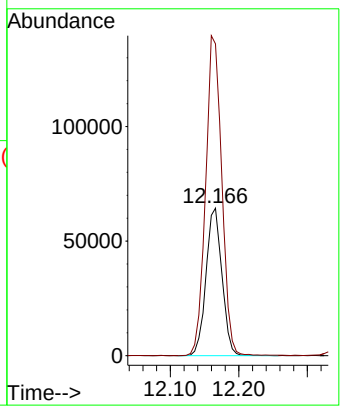


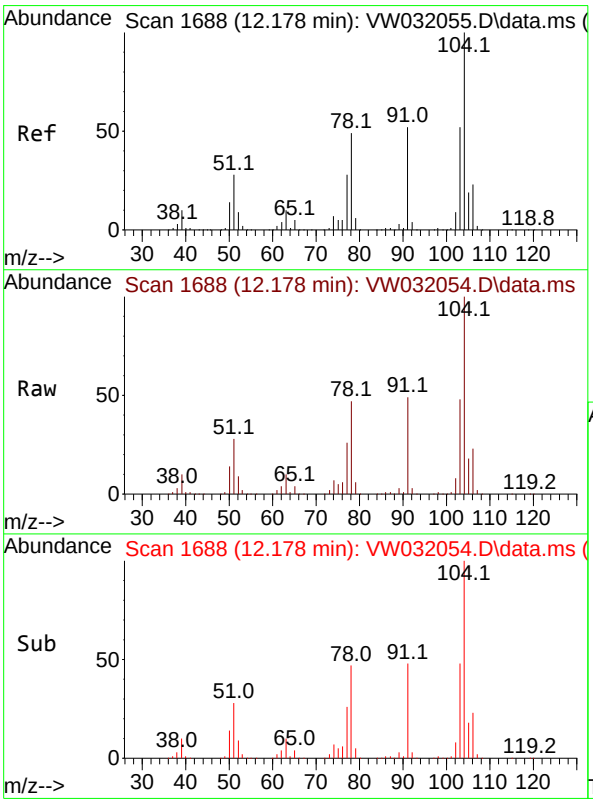

#69
o-Xylene
Concen: 20.482 ug/l
RT: 12.166 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion:106 Resp: 104192

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 220.7 | 110.8 | 332.3 |

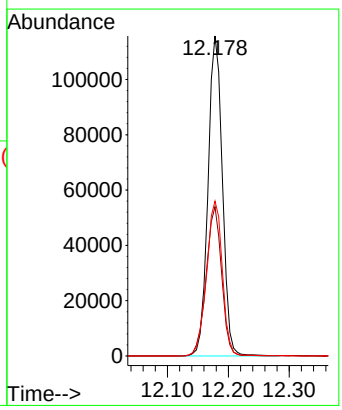


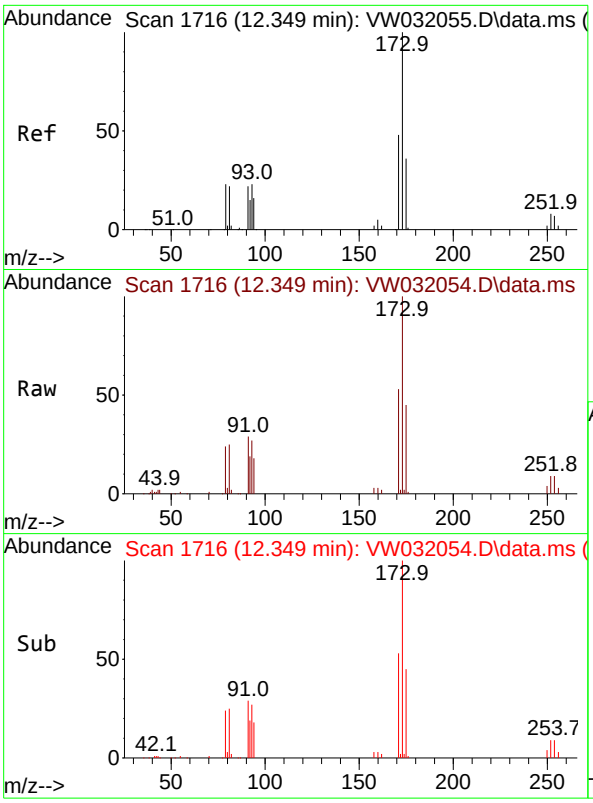




#70
Styrene
Concen: 20.991 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:104 Resp: 189664

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 50.1 | 41.2 | 61.8 |
| 103 | 53.2 | 43.8 | 65.8 |



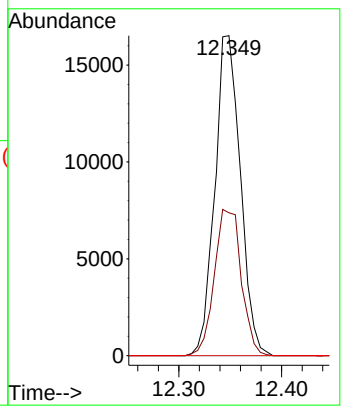


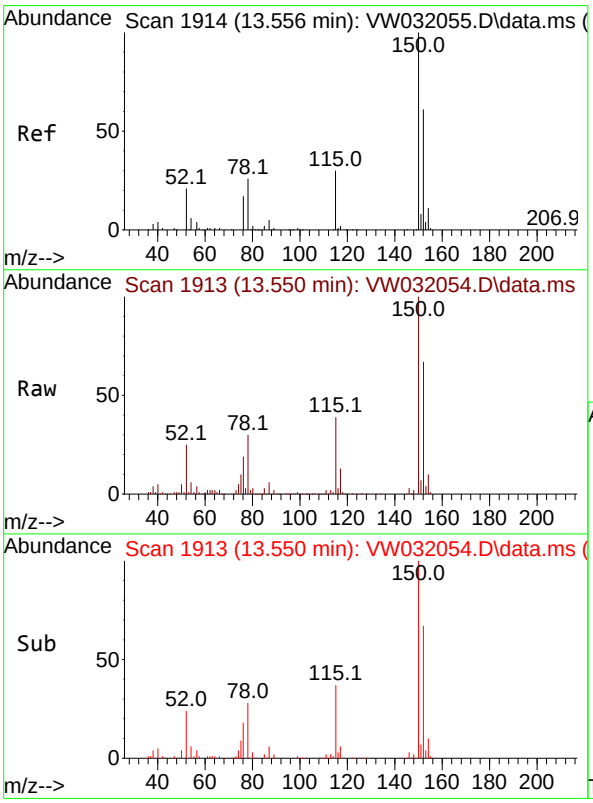

#71
Bromoform
Concen: 18.991 ug/l
RT: 12.349 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion:173 Resp: 28540

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.1 | 22.9 | 68.7 |
| 254 | 0.0 | 0.0 | 0.0 |

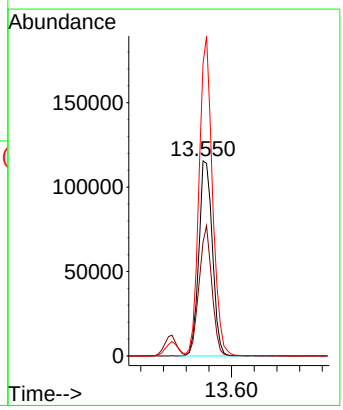


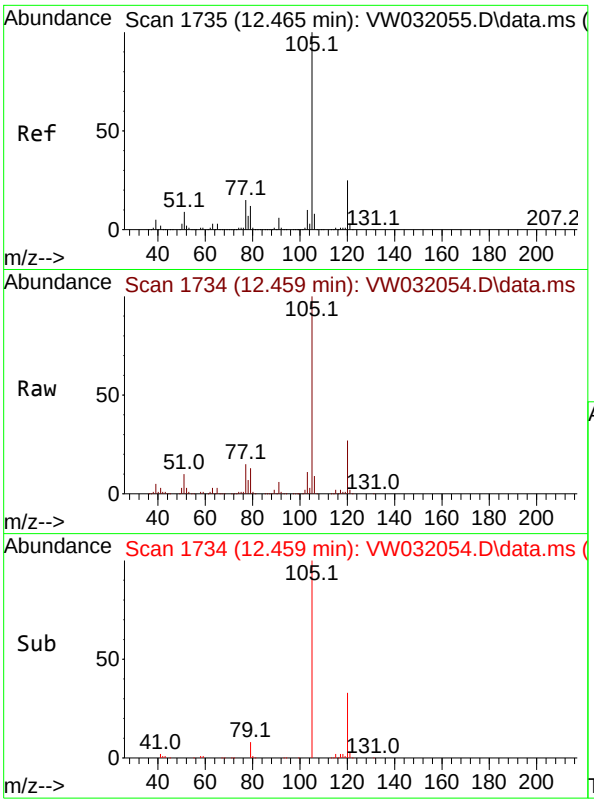




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.550 min Scan# 1913
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:152 Resp: 191343

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 63.0 | 32.6 | 97.8 |
| 150 | 161.1 | 0.0 | 359.4 |



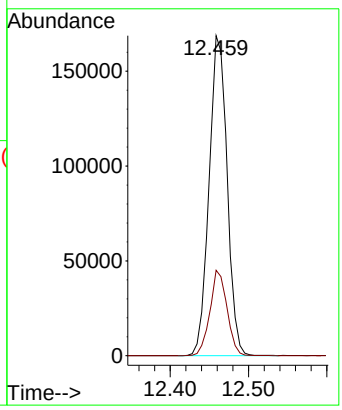


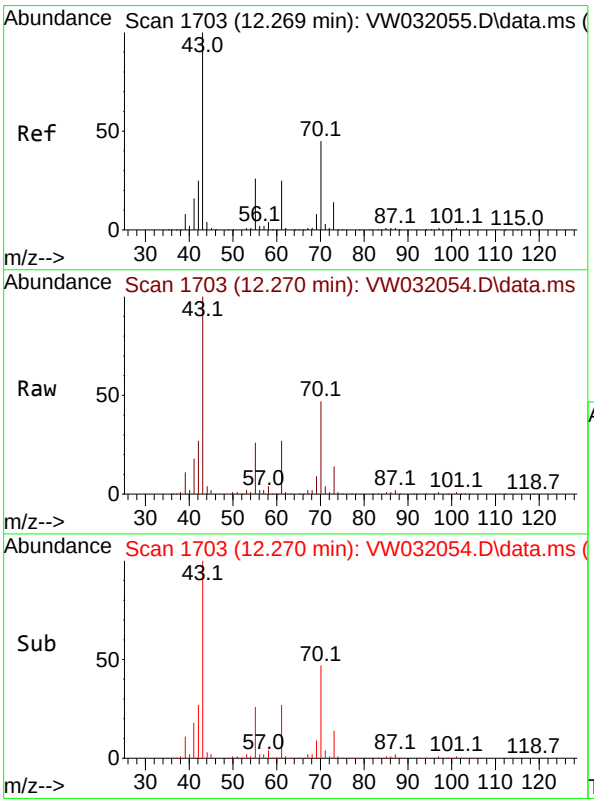

#73
Isopropylbenzene
Concen: 20.178 ug/l
RT: 12.459 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion:105 Resp: 269829

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.3 | 12.8 | 38.4 |

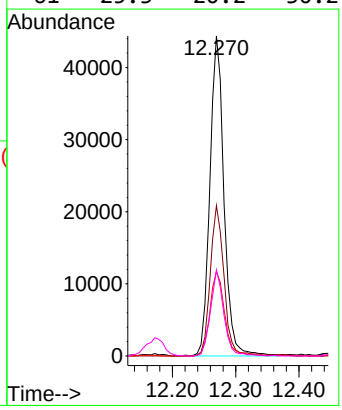


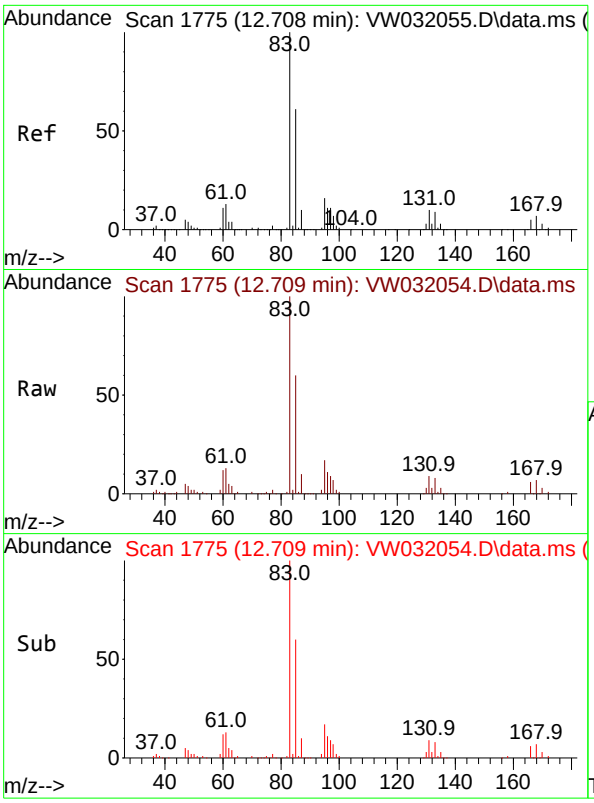




#74
N-amyl acetate
Concen: 18.005 ug/l
RT: 12.270 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 43 Resp: 69075

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 45.7 | 37.0 | 55.4 |
| 55 | 27.7 | 21.1 | 31.7 |
| 61 | 25.3 | 20.2 | 30.2 |



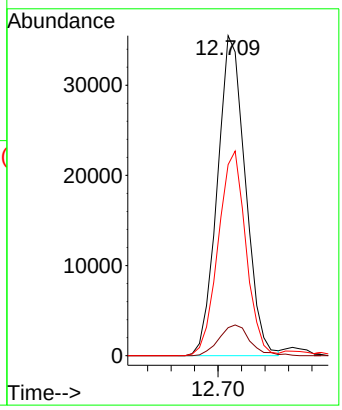


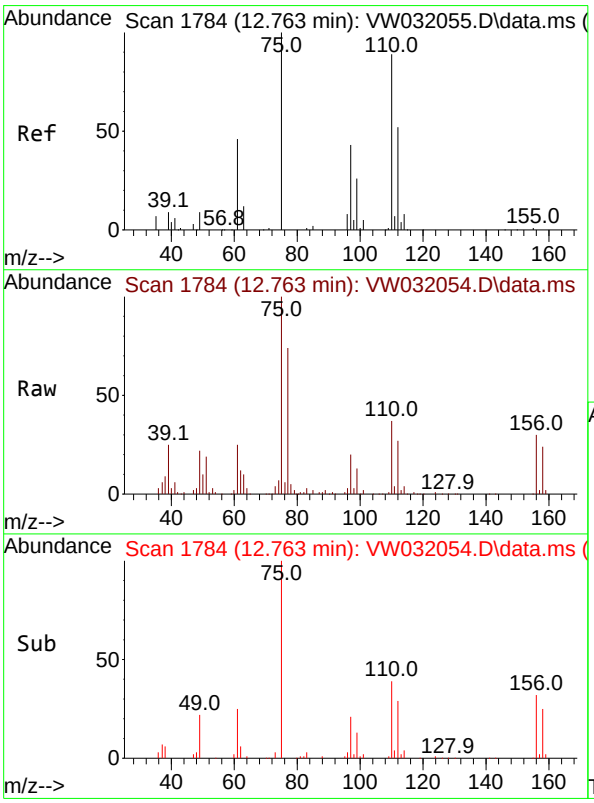

#75
1,1,2,2-Tetrachloroethane
Concen: 18.531 ug/l
RT: 12.709 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion: 83 Resp: 58836

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.6 | 5.1 | 15.4 |
| 85 | 63.2 | 32.2 | 96.6 |

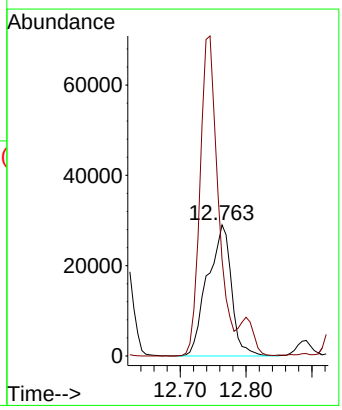


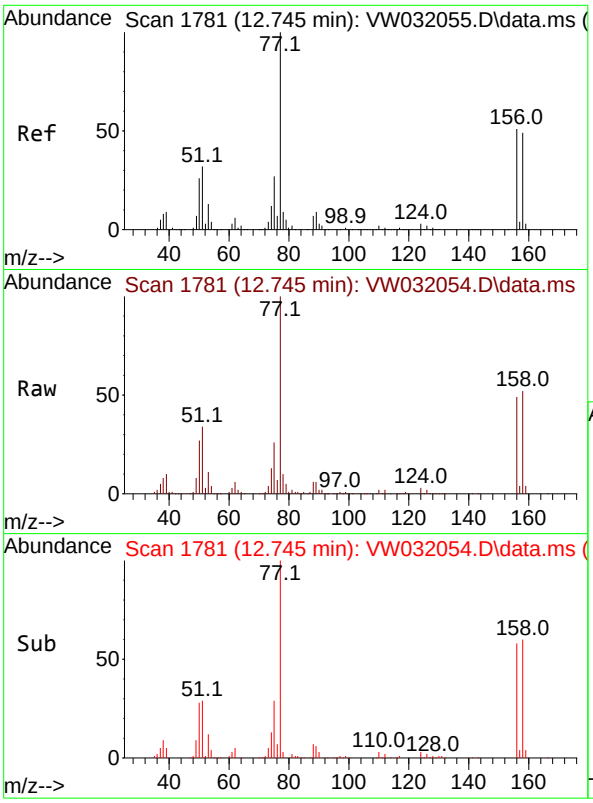




#76
1,2,3-Trichloropropane
Concen: 25.017 ug/l
RT: 12.763 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 75 Resp: 73585

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 183.8 | 123.5 | 370.5 |



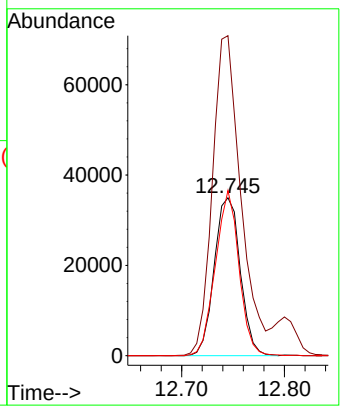


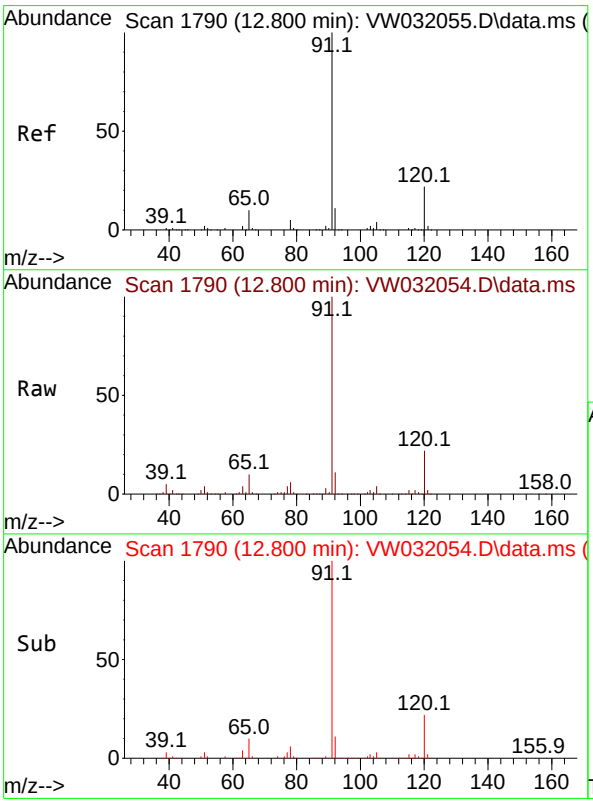

#77
Bromobenzene
Concen: 19.221 ug/l
RT: 12.745 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion:156 Resp: 61389

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 220.3 | 108.7 | 326.3 |
| 158 | 95.2 | 48.3 | 144.9 |

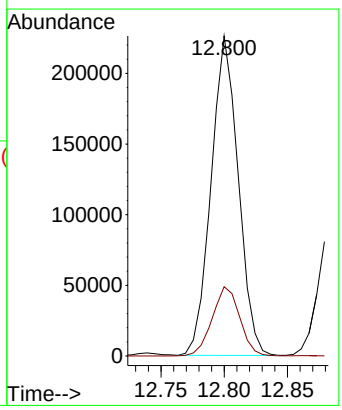


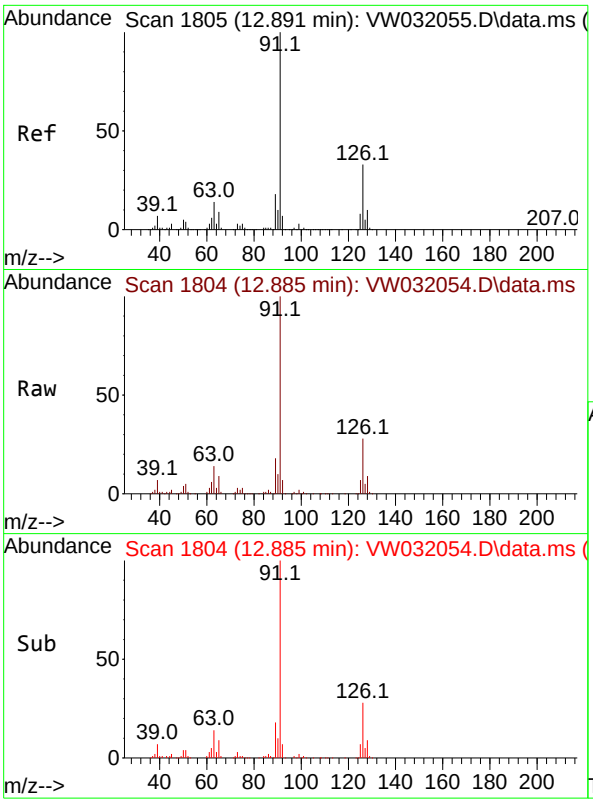




#78
n-propylbenzene
Concen: 20.476 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 91 Resp: 337098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.0 | 11.1 | 33.3 |



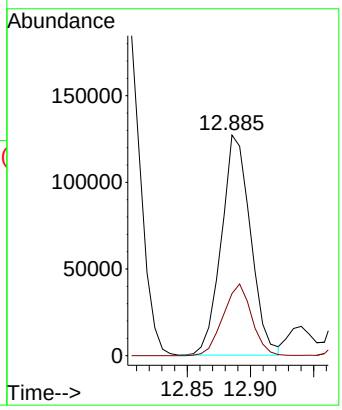


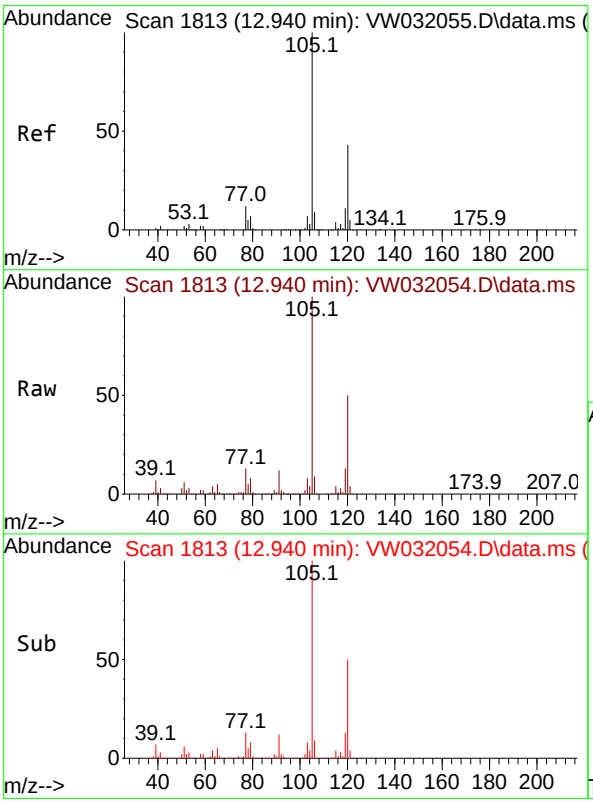

#79
2-Chlorotoluene
Concen: 20.069 ug/l
RT: 12.885 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion: 91 Resp: 203918

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.0 | 15.9 | 47.7 |

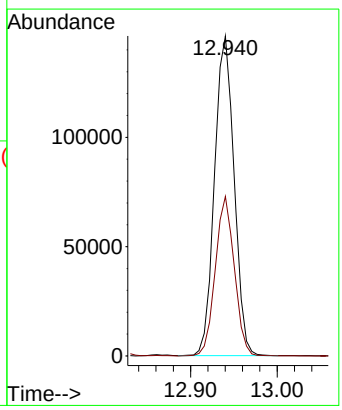


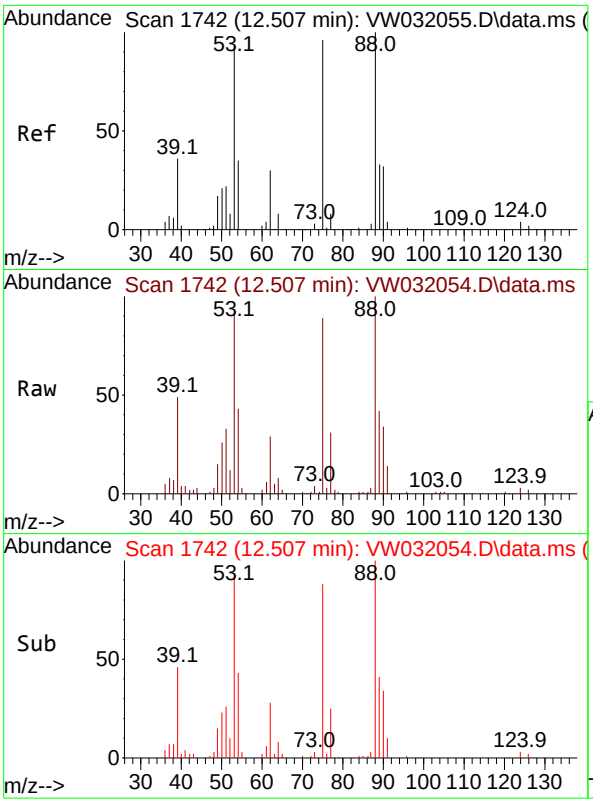




#80
1,3,5-Trimethylbenzene
Concen: 20.226 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:105 Resp: 229615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.5 | 23.4 | 70.0 |



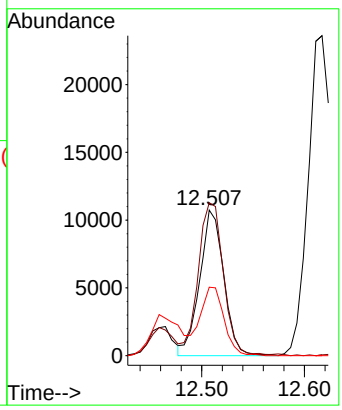


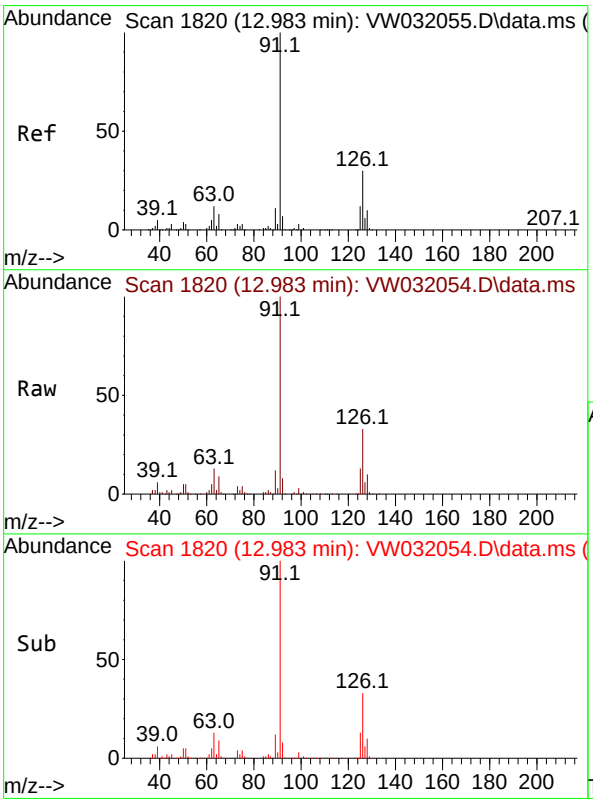

#81
trans-1,4-Dichloro-2-butene
Concen: 17.458 ug/l
RT: 12.507 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion: 75 Resp: 17512

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 110.9 | 81.0 | 121.6 |
| 89 | 48.9 | 37.3 | 55.9 |

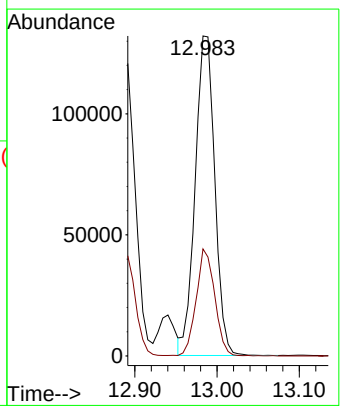


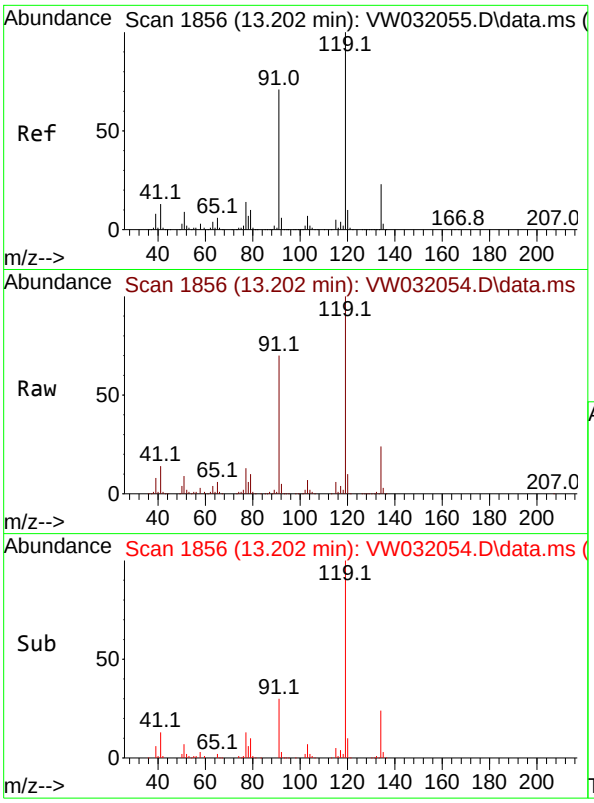




#82
4-Chlorotoluene
Concen: 20.253 ug/l
RT: 12.983 min Scan# 1820
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 91 Resp: 218637

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.9 | 15.5 | 46.5 |



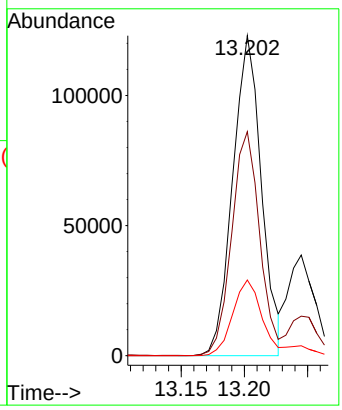


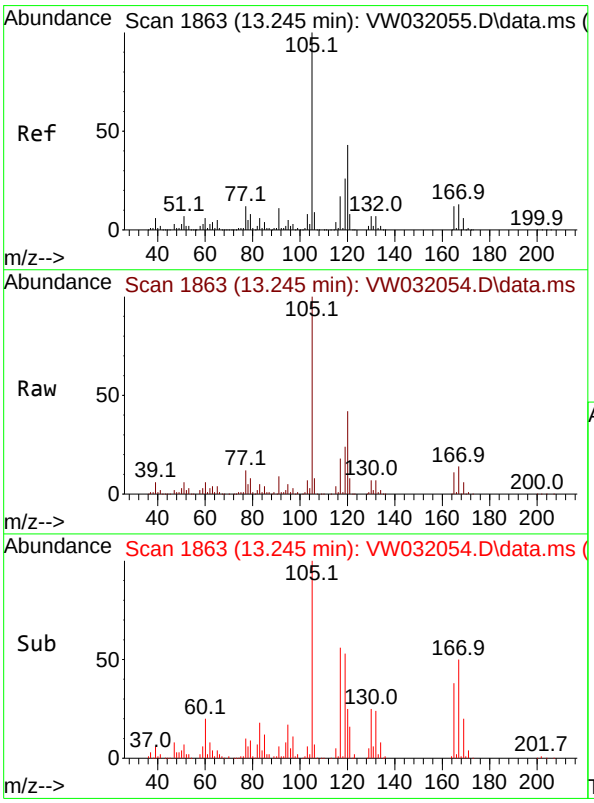

#83
tert-Butylbenzene
Concen: 20.608 ug/l
RT: 13.202 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion:119 Resp: 194168

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 68.1 | 35.3 | 105.9 |
| 134 | 24.2 | 12.1 | 36.3 |

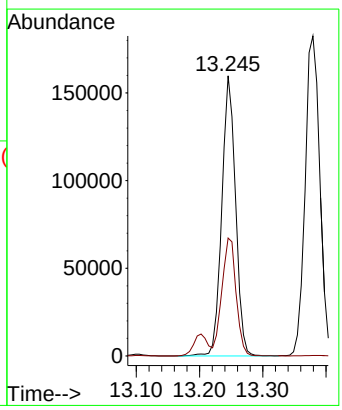


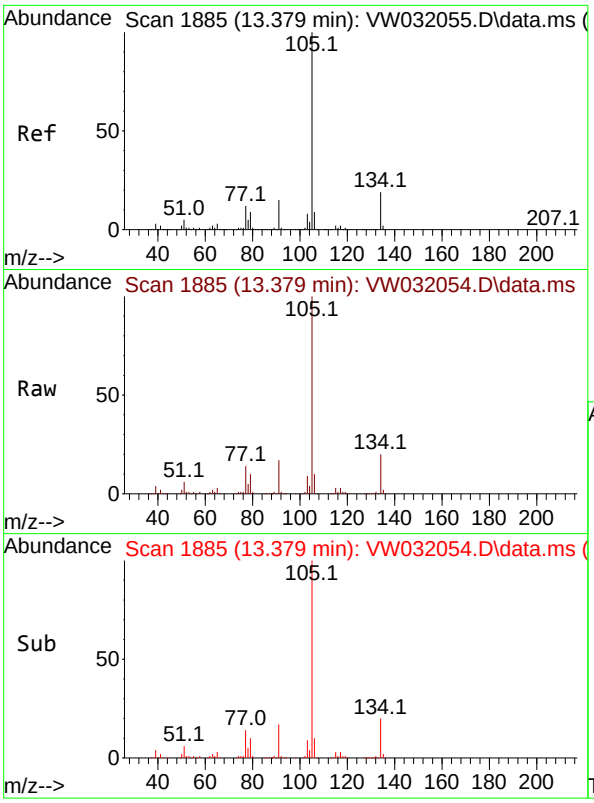




#84
1,2,4-Trimethylbenzene
Concen: 20.774 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:105 Resp: 240078

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.5 | 21.6 | 64.8 |



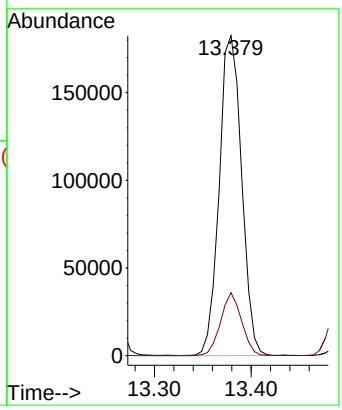


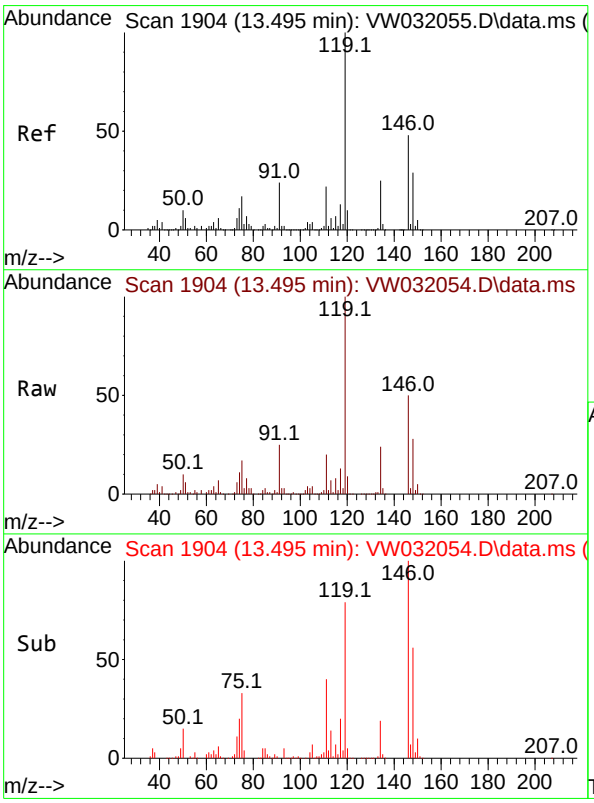

#85
sec-Butylbenzene
Concen: 20.547 ug/l
RT: 13.379 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion:105 Resp: 292689

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 18.5 | 9.9 | 29.7 |

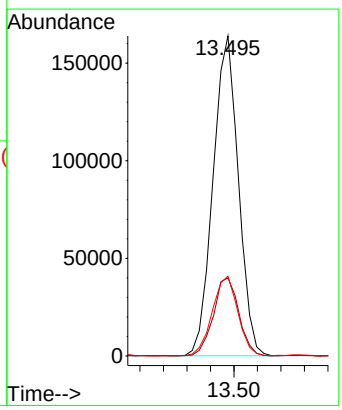


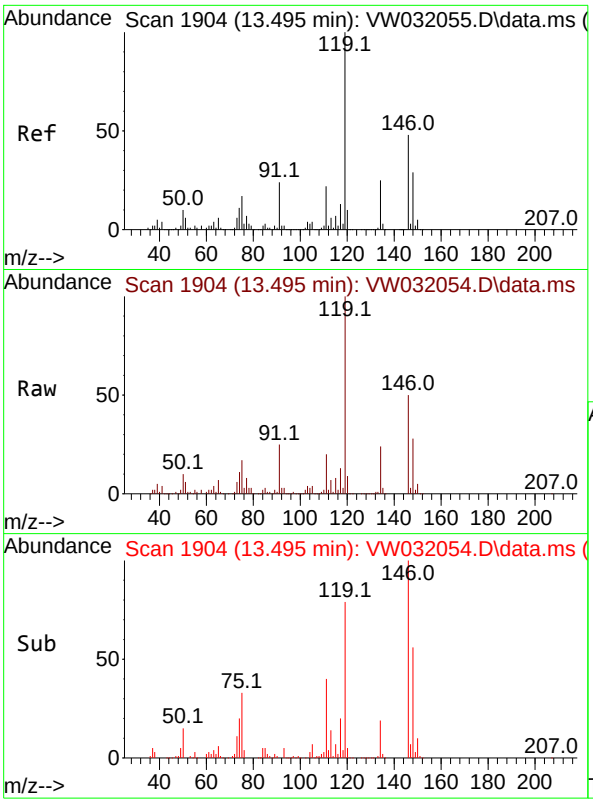




#86
p-Isopropyltoluene
Concen: 20.638 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:119 Resp: 245081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 24.5 | 12.4 | 37.0 |
| 91 | 25.1 | 12.1 | 36.3 |



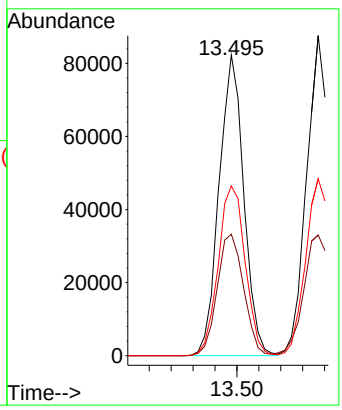


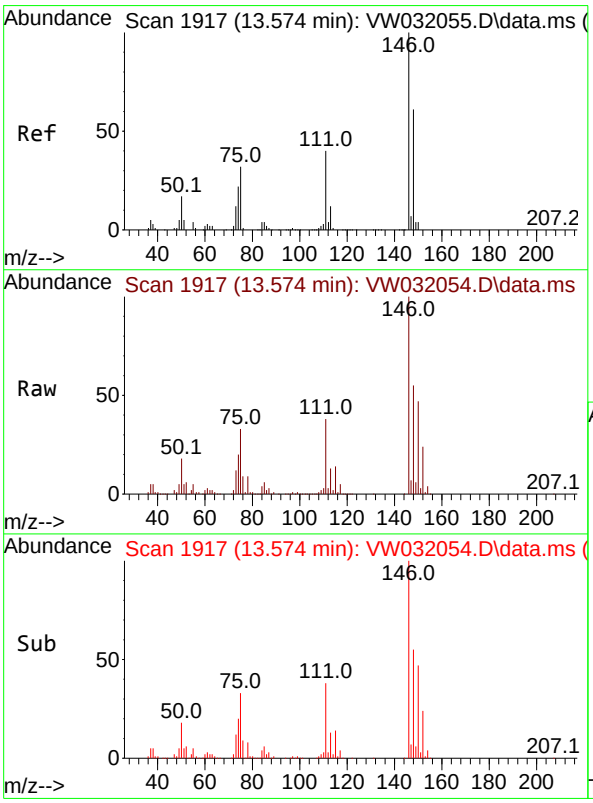

#87
1,3-Dichlorobenzene
Concen: 20.282 ug/l
RT: 13.495 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion:146 Resp: 128893

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.2 | 21.2 | 63.6 |
| 148 | 61.5 | 30.3 | 90.8 |

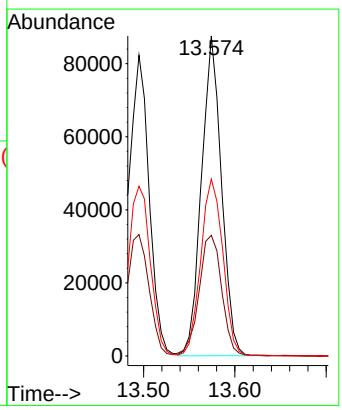


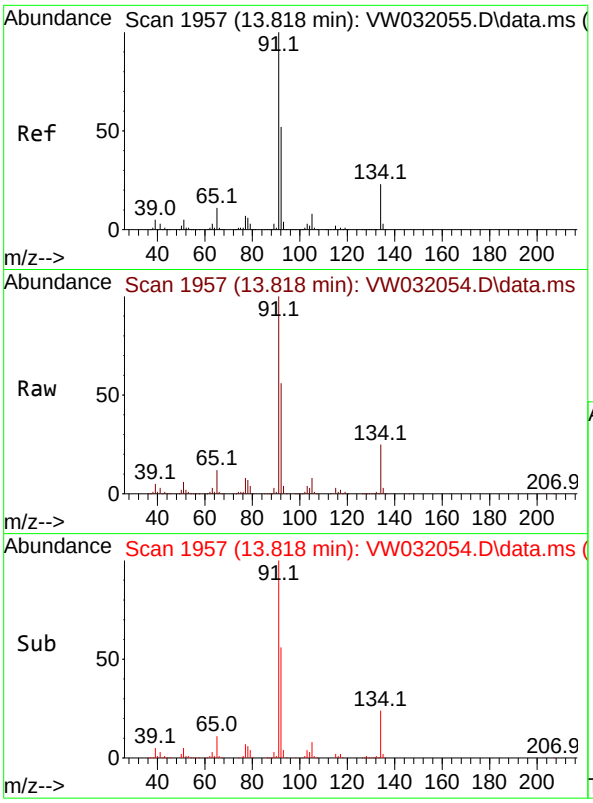




#88
1,4-Dichlorobenzene
Concen: 20.724 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:146 Resp: 133097

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.7 | 21.6 | 64.6 |
| 148 | 61.1 | 32.0 | 96.2 |



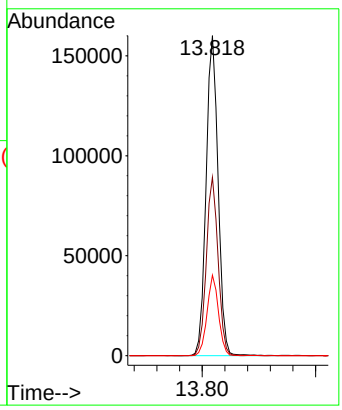


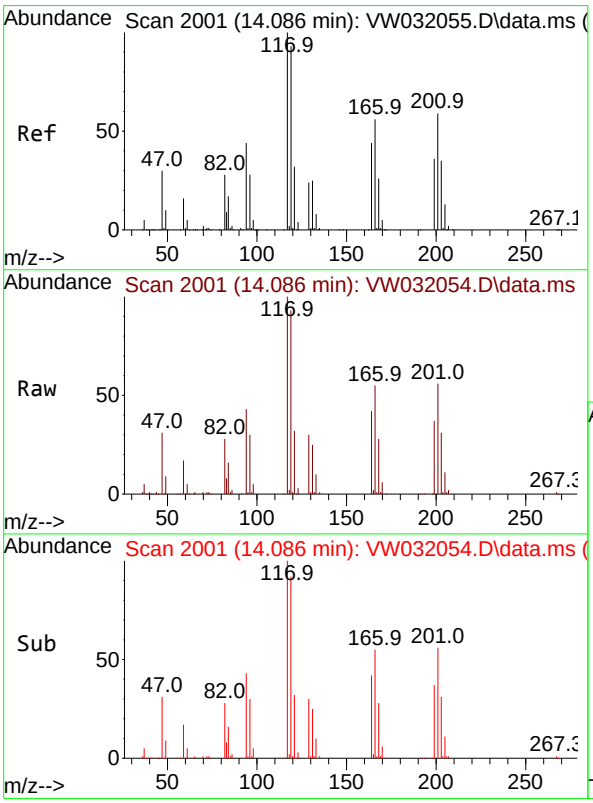

#89
n-Butylbenzene
Concen: 20.328 ug/l
RT: 13.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion: 91 Resp: 234522

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.8 | 26.7 | 80.1 |
| 134 | 24.0 | 12.0 | 36.1 |

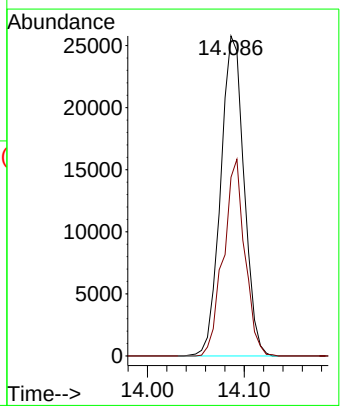


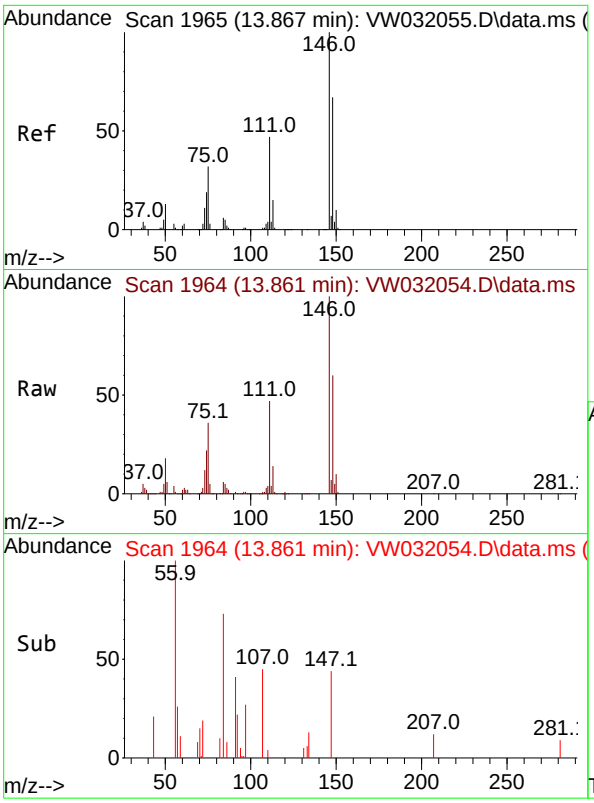




#90
Hexachloroethane
Concen: 19.904 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:117 Resp: 43226

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 56.5 | 30.9 | 92.5 |



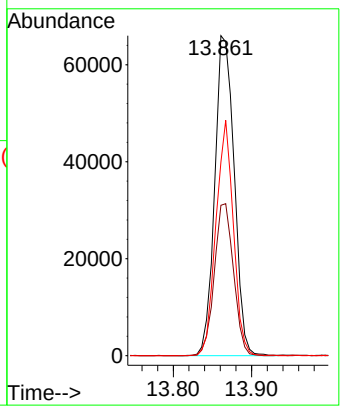


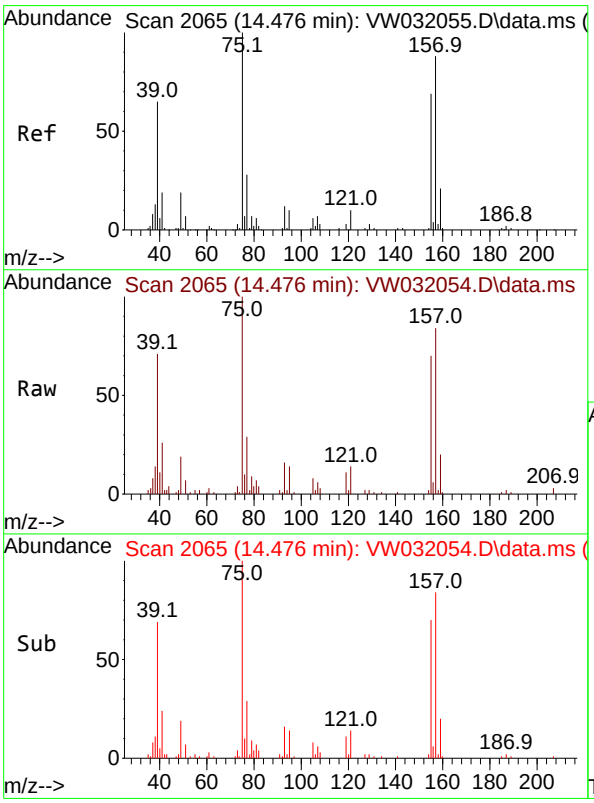

#91
1,2-Dichlorobenzene
Concen: 19.812 ug/l
RT: 13.861 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion:146 Resp: 114056

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 46.8 | 23.1 | 69.3 |
| 148 | 66.0 | 32.9 | 98.6 |

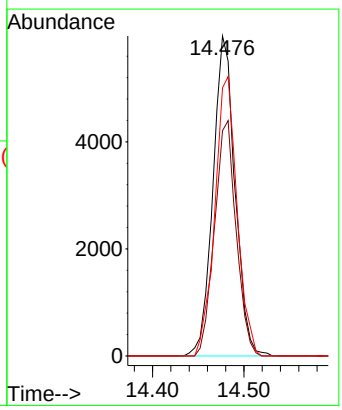


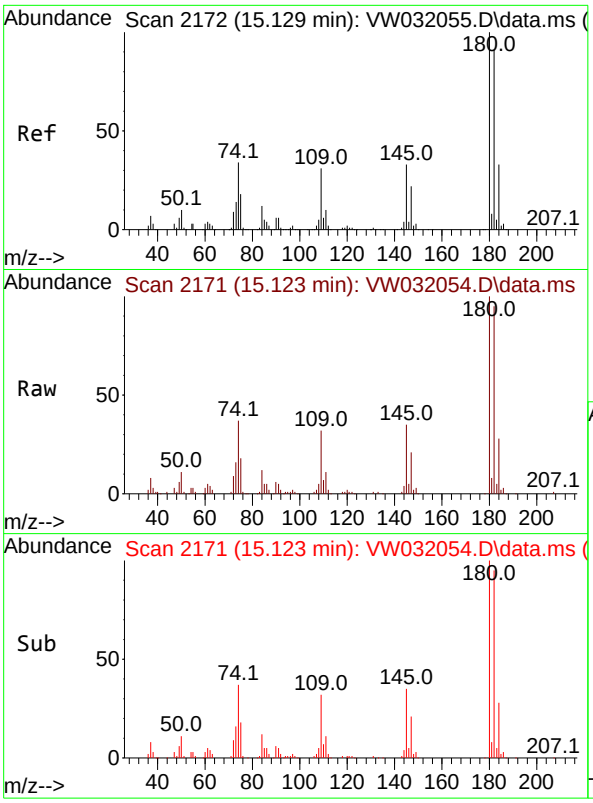




#92
1,2-Dibromo-3-Chloropropane
Concen: 17.736 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion: 75 Resp: 10011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 72.2 | 35.2 | 105.6 |
| 157 | 88.0 | 47.5 | 142.6 |



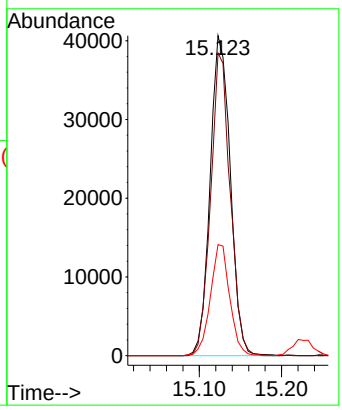


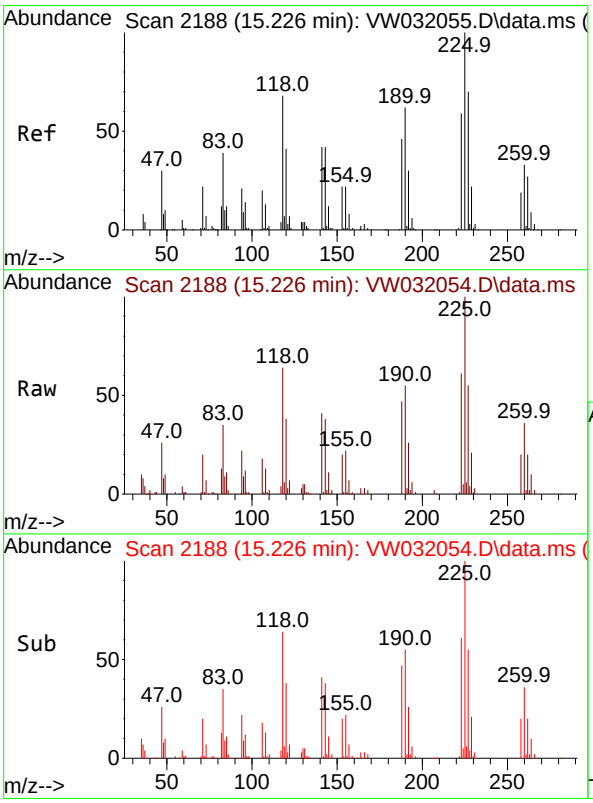

#93
1,2,4-Trichlorobenzene
Concen: 20.102 ug/l
RT: 15.123 min Scan# 21
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion:180 Resp: 69229

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 91.7 | 49.0 | 147.0 |
| 145 | 33.4 | 17.3 | 51.9 |

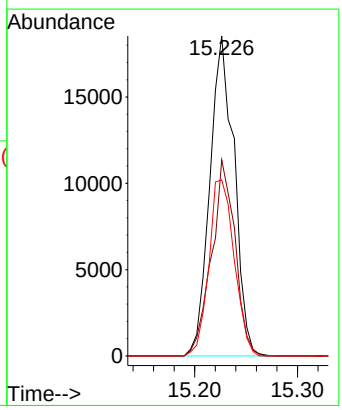


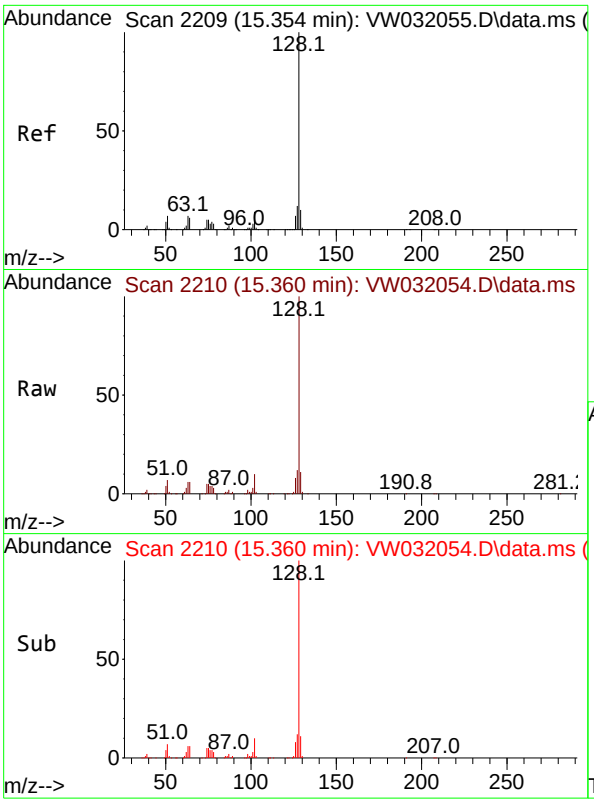




#94
Hexachlorobutadiene
Concen: 19.720 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. 0.000 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:225 Resp: 30358

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 59.4 | 31.8 | 95.3 |
| 227 | 57.4 | 33.5 | 100.5 |



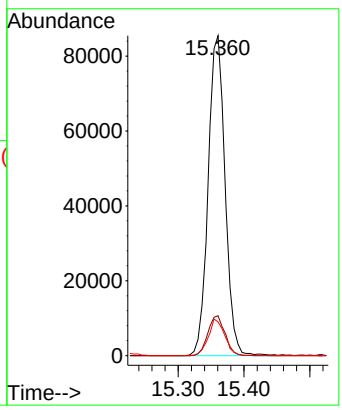


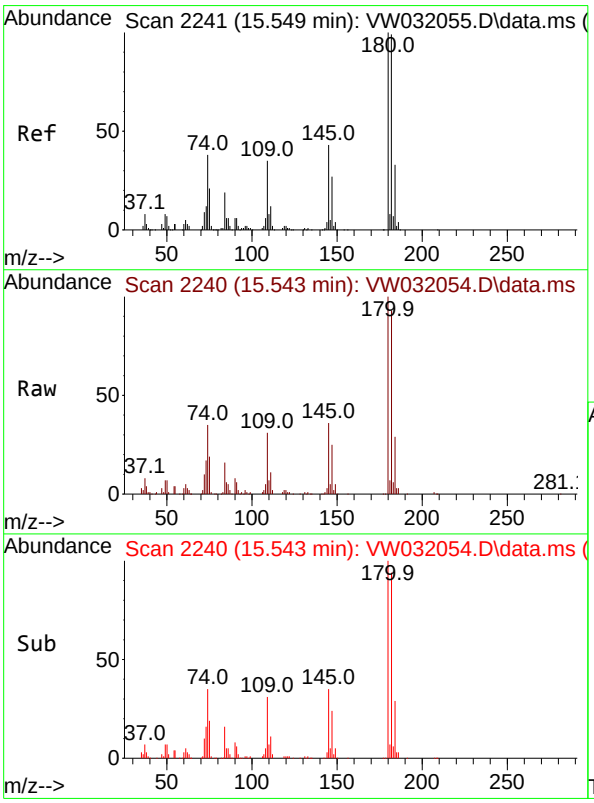

#95
Naphthalene
Concen: 18.147 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC020

Tgt Ion:128 Resp: 153137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.6 | 10.5 | 15.7 |
| 129 | 11.1 | 8.2 | 12.4 |

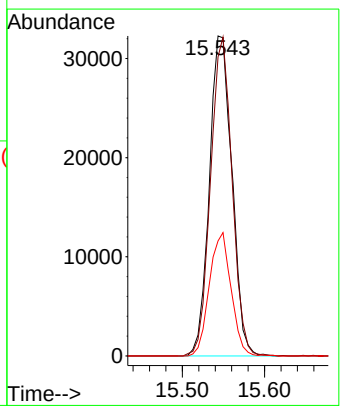



#96
1,2,3-Trichlorobenzene
Concen: 19.635 ug/l
RT: 15.543 min Scan# 2240
Delta R.T. -0.006 min
Lab File: VW032054.D
Acq: 11 Aug 2025 09:47

Tgt Ion:180 Resp: 61526

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.0 | 46.0 | 138.0 |
| 145 | 37.1 | 19.2 | 57.6 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032055.D
Acq On : 11 Aug 2025 10:09
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Quant Time: Aug 12 03:38:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.959 | 168 | 223324 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.849 | 114 | 406973 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.629 | 117 | 378090 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.556 | 152 | 178995 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.319 | 65 | 159972 | 49.529 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 63 - 155 | | Recovery = 99.060% | | | |
| 35) Dibromofluoromethane | 7.898 | 113 | 132195 | 50.279 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 70 - 134 | | Recovery = 100.560% | | | |
| 50) Toluene-d8 | 10.325 | 98 | 506634 | 52.098 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 123 | | Recovery = 104.200% | | | |
| 62) 4-Bromofluorobenzene | 12.617 | 95 | 187331 | 52.274 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 17 - 146 | | Recovery = 104.540% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.040 | 85 | 75096 | 47.015 | ug/l | 100 |
| 3) Chloromethane | 2.259 | 50 | 97719 | 45.418 | ug/l | 100 |
| 4) Vinyl Chloride | 2.405 | 62 | 118378 | 45.486 | ug/l | 100 |
| 5) Bromomethane | 2.820 | 94 | 91749 | 46.991 | ug/l | 100 |
| 6) Chloroethane | 2.972 | 64 | 82045 | 47.641 | ug/l | 100 |
| 7) Trichlorofluoromethane | 3.302 | 101 | 103706 | 49.743 | ug/l | 100 |
| 8) Diethyl Ether | 3.722 | 74 | 84764 | 49.624 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 4.094 | 101 | 115526 | 46.968 | ug/l | 100 |
| 10) Methyl Iodide | 4.307 | 142 | 167079 | 47.909 | ug/l | 100 |
| 11) Tert butyl alcohol | 5.222 | 59 | 56322 | 269.294 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 4.082 | 96 | 128304 | 47.373 | ug/l | 100 |
| 13) Acrolein | 3.930 | 56 | 78858 | 236.637 | ug/l | 100 |
| 14) Allyl chloride | 4.704 | 41 | 192434 | 48.819 | ug/l | 100 |
| 15) Acrylonitrile | 5.405 | 53 | 213941 | 262.963 | ug/l | 100 |
| 16) Acetone | 4.161 | 43 | 182559 | 244.127 | ug/l | 100 |
| 17) Carbon Disulfide | 4.423 | 76 | 347752 | 47.836 | ug/l | 100 |
| 18) Methyl Acetate | 4.710 | 43 | 123902 | 52.361 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.466 | 73 | 246045 | 51.560 | ug/l | 100 |
| 20) Methylene Chloride | 4.960 | 84 | 152186 | 44.016 | ug/l | 100 |
| 21) trans-1,2-Dichloroethene | 5.460 | 96 | 139994 | 48.707 | ug/l | 100 |
| 22) Diisopropyl ether | 6.344 | 45 | 421731 | 50.751 | ug/l | 100 |
| 23) Vinyl Acetate | 6.283 | 43 | 1450553 | 265.873 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 6.240 | 63 | 258279 | 48.646 | ug/l | 100 |
| 25) 2-Butanone | 7.191 | 43 | 284711 | 267.883 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 7.191 | 77 | 129390 | 48.578 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 7.191 | 96 | 167240 | 49.779 | ug/l | 100 |
| 28) Bromochloromethane | 7.533 | 49 | 121266 | 50.191 | ug/l | 100 |
| 29) Tetrahydrofuran | 7.551 | 42 | 190719 | 272.100 | ug/l | 100 |
| 30) Chloroform | 7.691 | 83 | 275905 | 49.018 | ug/l | 100 |
| 31) Cyclohexane | 7.971 | 56 | 214597 | 46.622 | ug/l | 100 |
| 32) 1,1,1-Trichloroethane | 7.886 | 97 | 194676 | 47.617 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 8.099 | 75 | 190046 | 51.274 | ug/l | 100 |
| 37) Ethyl Acetate | 7.276 | 43 | 119689 | 54.829 | ug/l | 100 |
| 38) Carbon Tetrachloride | 8.087 | 117 | 182422 | 51.000 | ug/l | 100 |
| 39) Methylcyclohexane | 9.343 | 83 | 235341 | 52.093 | ug/l | 100 |
| 40) Benzene | 8.337 | 78 | 597760 | 51.883 | ug/l | 100 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032055.D
Acq On : 11 Aug 2025 10:09
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Quant Time: Aug 12 03:38:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.496 | 41 | 68136 | 55.039 | ug/l | | 100 |
| 42) 1,2-Dichloroethane | 8.410 | 62 | 189755 | 51.471 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.435 | 43 | 219064 | 54.544 | ug/l | | 100 |
| 44) Trichloroethene | 9.099 | 130 | 137910 | 50.264 | ug/l | | 100 |
| 45) 1,2-Dichloropropane | 9.374 | 63 | 143446 | 51.537 | ug/l | | 100 |
| 46) Dibromomethane | 9.465 | 93 | 93001 | 51.770 | ug/l | | 100 |
| 47) Bromodichloromethane | 9.654 | 83 | 216521 | 52.307 | ug/l | | 100 |
| 48) Methyl methacrylate | 9.441 | 41 | 108287 | 55.849 | ug/l | | 100 |
| 49) 1,4-Dioxane | 9.465 | 88 | 26579 | 1144.321 | ug/l | | 100 |
| 51) 4-Methyl-2-Pentanone | 10.215 | 43 | 635174 | 280.194 | ug/l | | 100 |
| 52) Toluene | 10.392 | 92 | 379230 | 52.258 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.611 | 75 | 209555 | 54.035 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 10.075 | 75 | 236454 | 53.744 | ug/l | | 100 |
| 55) 1,1,2-Trichloroethane | 10.788 | 97 | 124341 | 52.088 | ug/l | | 100 |
| 56) Ethyl methacrylate | 10.648 | 69 | 178974 | 56.027 | ug/l | | 100 |
| 57) 1,3-Dichloropropane | 10.934 | 76 | 216719 | 52.084 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.928 | 63 | 490522 | 277.613 | ug/l | | 100 |
| 59) 2-Hexanone | 10.971 | 43 | 447423 | 284.986 | ug/l | | 100 |
| 60) Dibromochloromethane | 11.129 | 129 | 142234 | 52.161 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 11.233 | 107 | 121625 | 52.430 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.867 | 164 | 105400 | 48.263 | ug/l | | 100 |
| 65) Chlorobenzene | 11.654 | 112 | 403926 | 49.082 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.727 | 131 | 128215 | 49.935 | ug/l | | 100 |
| 67) Ethyl Benzene | 11.727 | 91 | 706877 | 50.709 | ug/l | | 100 |
| 68) m/p-Xylenes | 11.837 | 106 | 552442 | 102.704 | ug/l | | 100 |
| 69) o-Xylene | 12.166 | 106 | 257591 | 51.812 | ug/l | | 100 |
| 70) Styrene | 12.178 | 104 | 457949 | 51.858 | ug/l | | 100 |
| 71) Bromoform | 12.349 | 173 | 77959 | 53.078 | ug/l | # | 100 |
| 73) Isopropylbenzene | 12.465 | 105 | 654522 | 52.323 | ug/l | | 100 |
| 74) N-amyl acetate | 12.269 | 43 | 199256 | 55.520 | ug/l | | 100 |
| 75) 1,1,2,2-Tetrachloroethane | 12.708 | 83 | 156076 | 52.549 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.763 | 75 | 198427 | 72.113 | ug/l | | 56 |
| 77) Bromobenzene | 12.745 | 156 | 156335 | 52.326 | ug/l | | 100 |
| 78) n-propylbenzene | 12.800 | 91 | 805515 | 52.304 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.891 | 91 | 490665 | 51.622 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.940 | 105 | 555481 | 52.305 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.507 | 75 | 51811 | 55.213 | ug/l | | 100 |
| 82) 4-Chlorotoluene | 12.983 | 91 | 519957 | 51.488 | ug/l | | 100 |
| 83) tert-Butylbenzene | 13.202 | 119 | 462373 | 52.460 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.245 | 105 | 572429 | 52.950 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.379 | 105 | 690647 | 51.829 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.495 | 119 | 589769 | 53.089 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.495 | 146 | 313624 | 52.754 | ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 13.574 | 146 | 299453 | 49.844 | ug/l | | 100 |
| 89) n-Butylbenzene | 13.818 | 91 | 569364 | 52.756 | ug/l | | 100 |
| 90) Hexachloroethane | 14.086 | 117 | 101464 | 49.942 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 13.867 | 146 | 273581 | 50.801 | ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.476 | 75 | 28437 | 53.857 | ug/l | | 100 |
| 93) 1,2,4-Trichlorobenzene | 15.129 | 180 | 164726 | 51.132 | ug/l | | 100 |
| 94) Hexachlorobutadiene | 15.226 | 225 | 68983 | 47.902 | ug/l | | 100 |
| 95) Naphthalene | 15.354 | 128 | 434944 | 55.099 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.549 | 180 | 149556 | 51.022 | ug/l | | 100 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032055.D
Acq On : 11 Aug 2025 10:09
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Quant Time: Aug 12 03:38:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

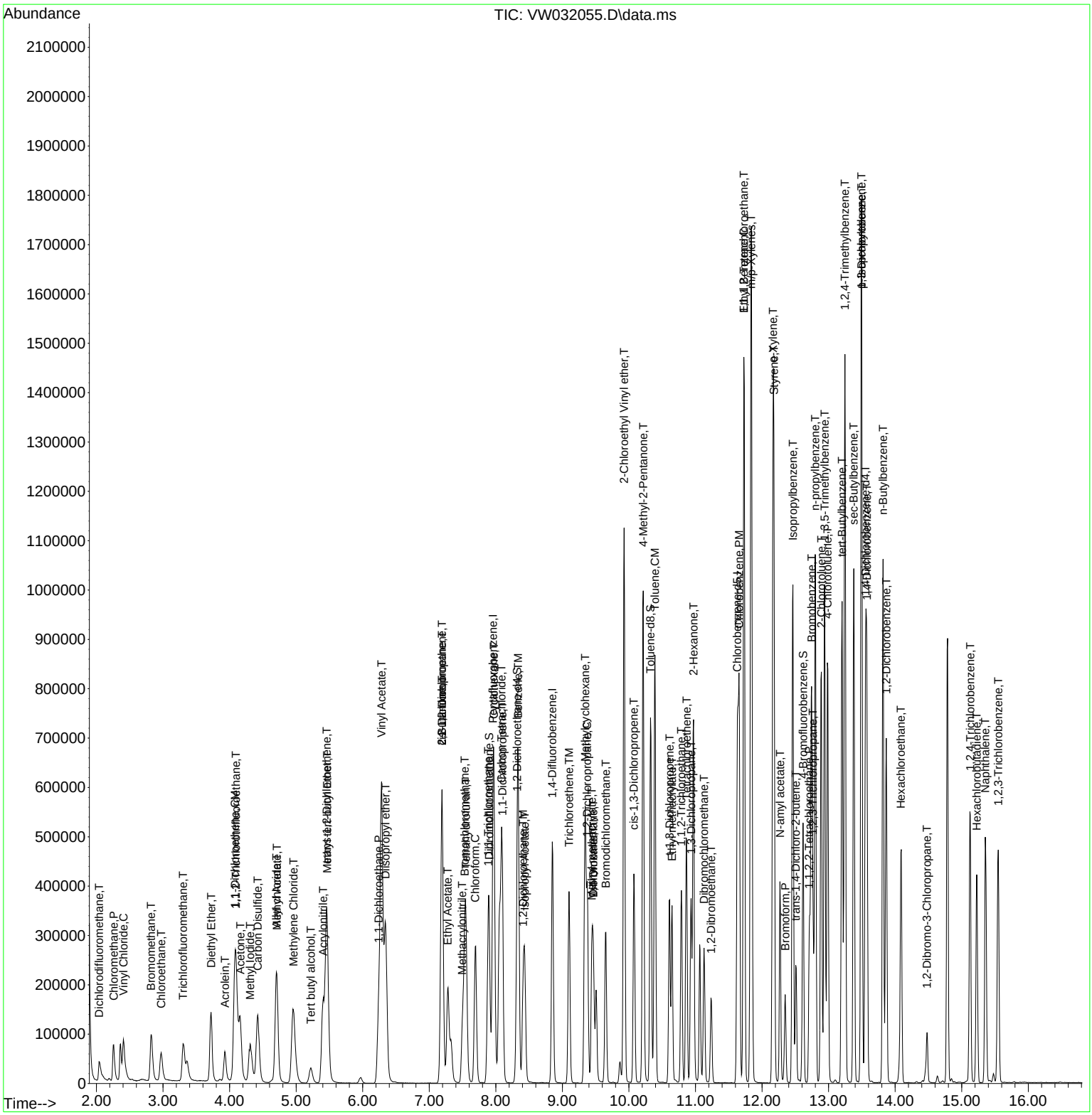
(#) = qualifier out of range (m) = manual integration (+) = signals summed

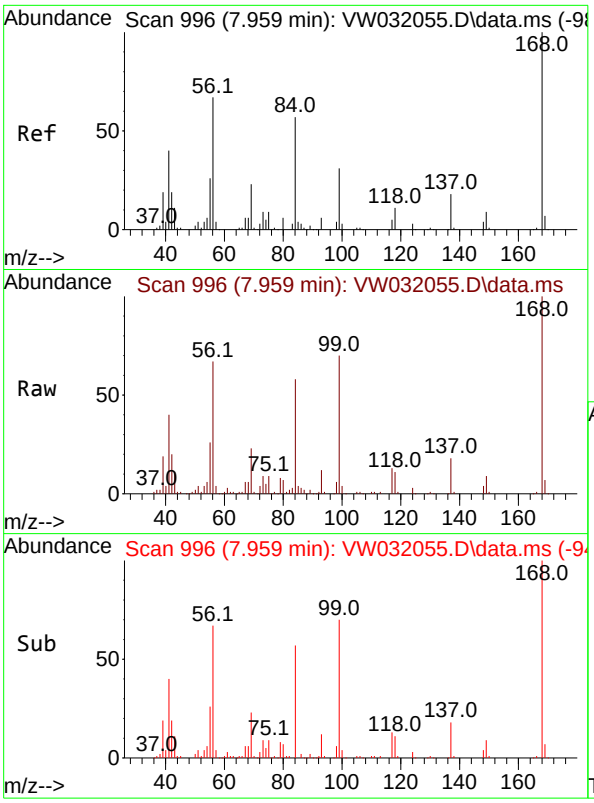
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032055.D
Acq On : 11 Aug 2025 10:09
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Quant Time: Aug 12 03:38:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration



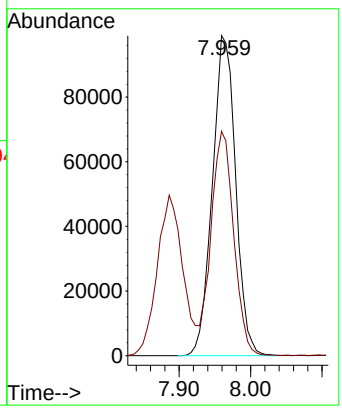


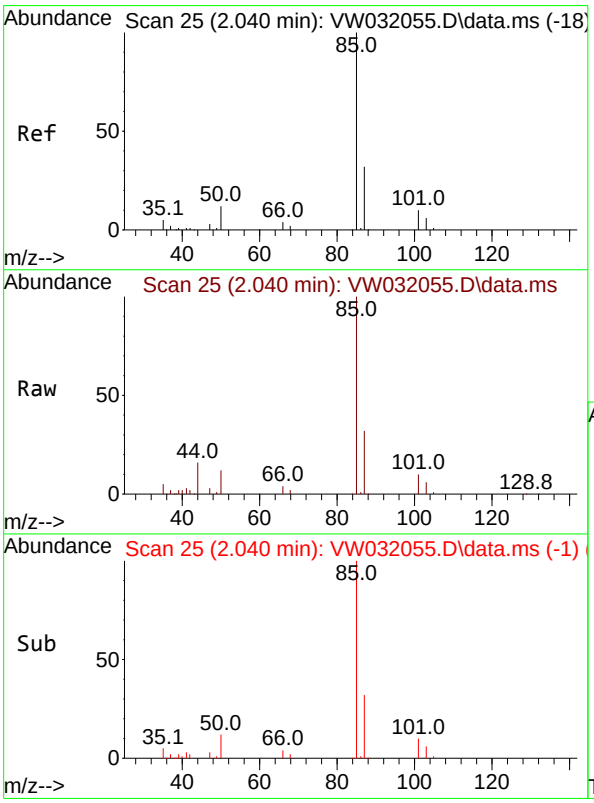

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion:168 Resp: 223324

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 70.0 | 56.0 | 84.0 |

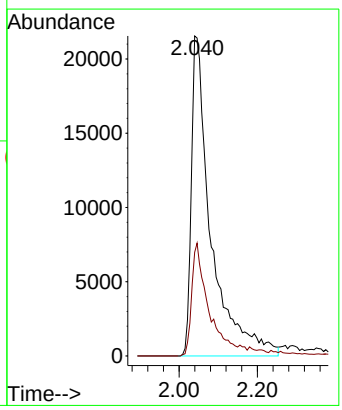


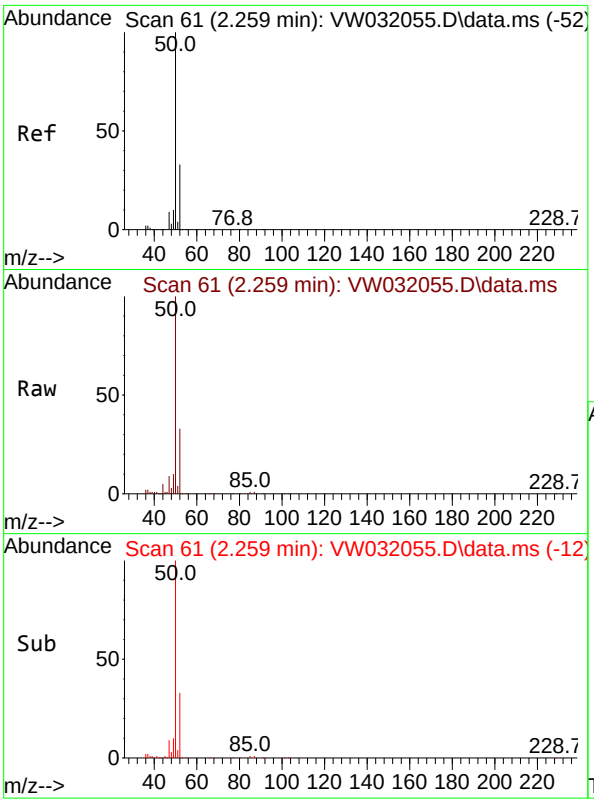




#2
Dichlorodifluoromethane
Concen: 47.015 ug/l
RT: 2.040 min Scan# 25
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 85 Resp: 75096

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.4 | 16.2 | 48.6 |



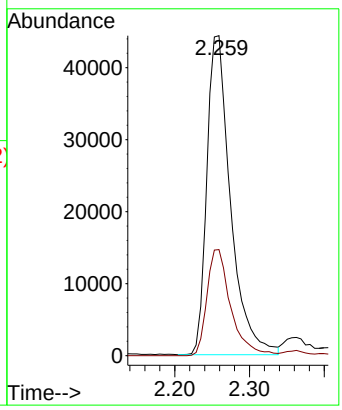


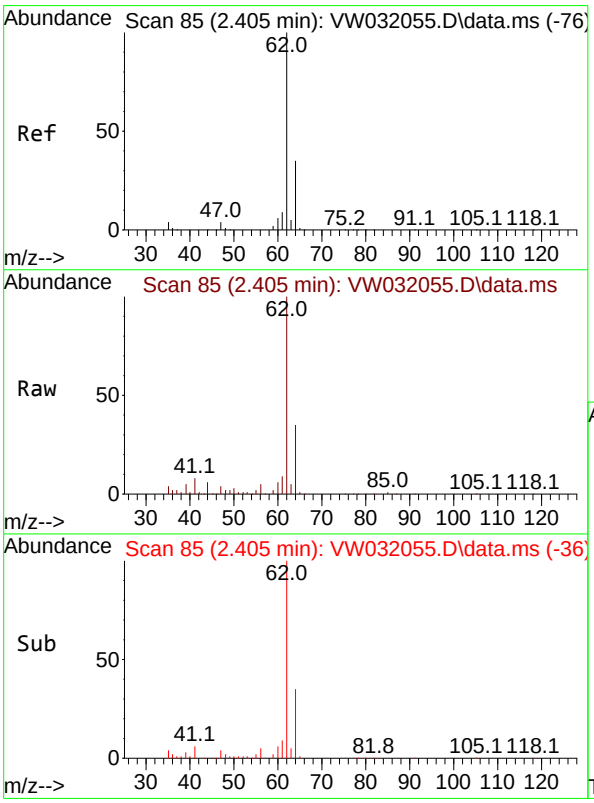

#3
Chloromethane
Concen: 45.418 ug/l
RT: 2.259 min Scan# 61
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 50 Resp: 97719

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.2 | 26.6 | 39.8 |

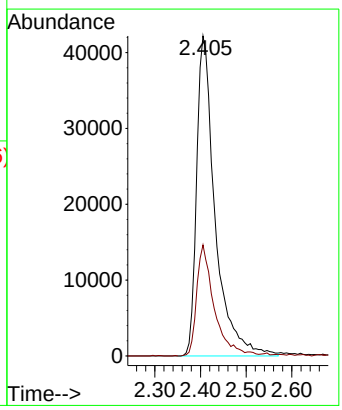


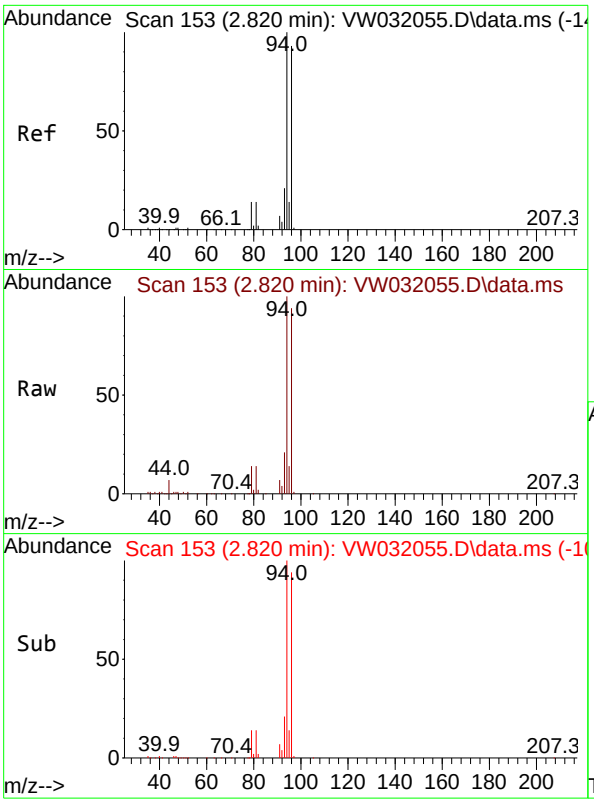




#4
Vinyl Chloride
Concen: 45.486 ug/l
RT: 2.405 min Scan# 85
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 62 Resp: 118378

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 34.7 | 27.8 | 41.6 |



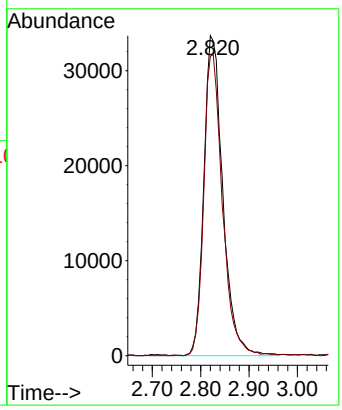


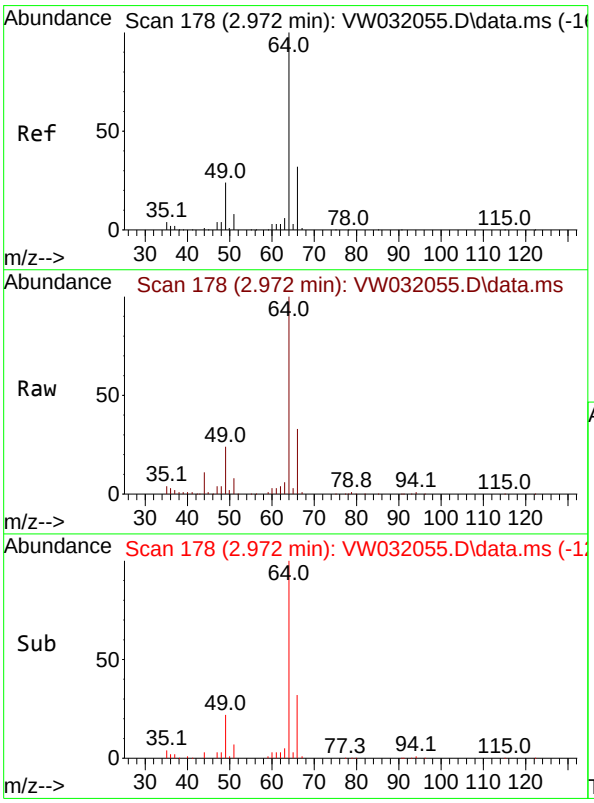

#5
Bromomethane
Concen: 46.991 ug/l
RT: 2.820 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 94 Resp: 91749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 93.4 | 74.7 | 112.1 |

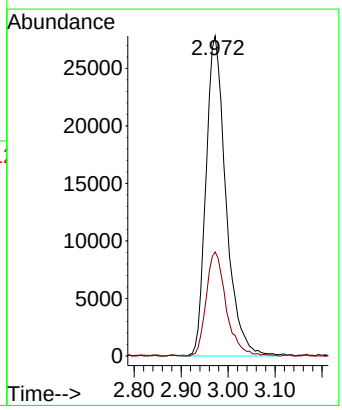


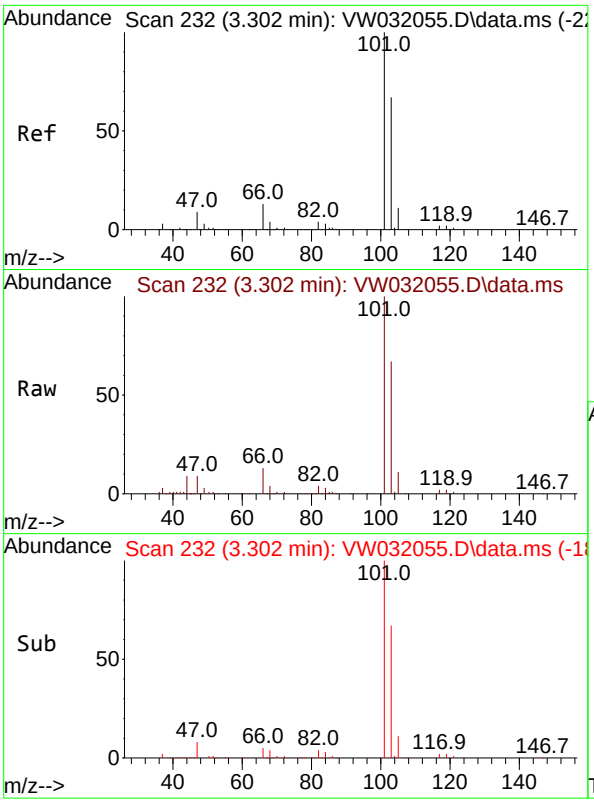




#6
Chloroethane
Concen: 47.641 ug/l
RT: 2.972 min Scan# 178
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 64 Resp: 82045

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.5 | 26.0 | 39.0 |



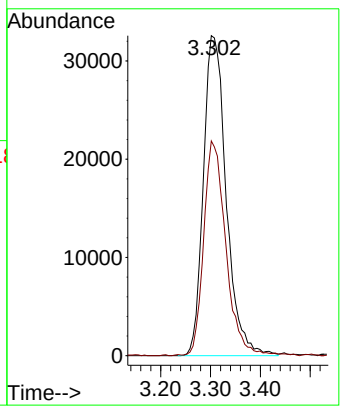


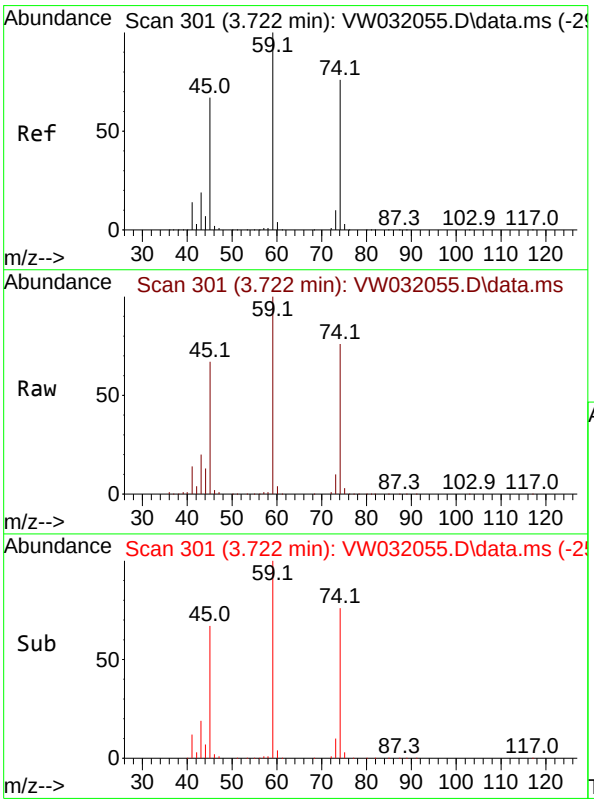

#7
Trichlorofluoromethane
Concen: 49.743 ug/l
RT: 3.302 min Scan# 2
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion:101 Resp: 103706

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 66.7 | 53.4 | 80.0 |

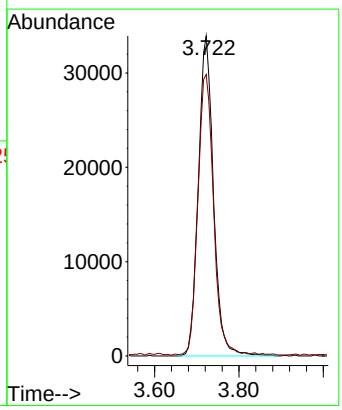


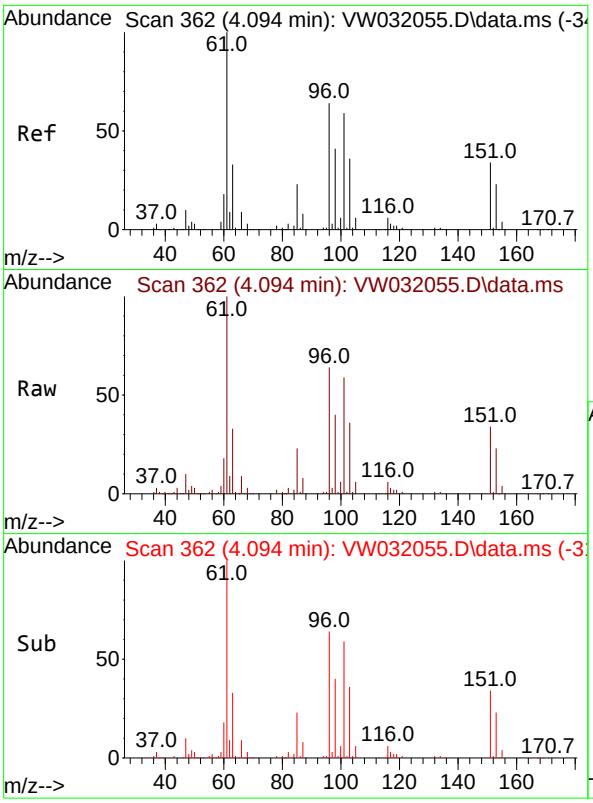




#8
Diethyl Ether
Concen: 49.624 ug/l
RT: 3.722 min Scan# 301
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 74 Resp: 84764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 90.8 | 45.4 | 136.2 |



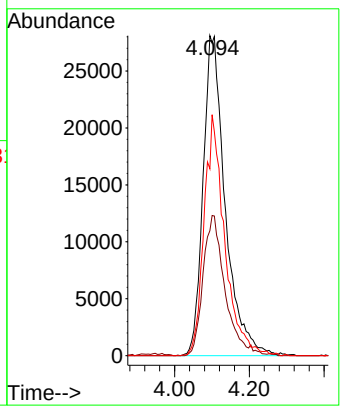


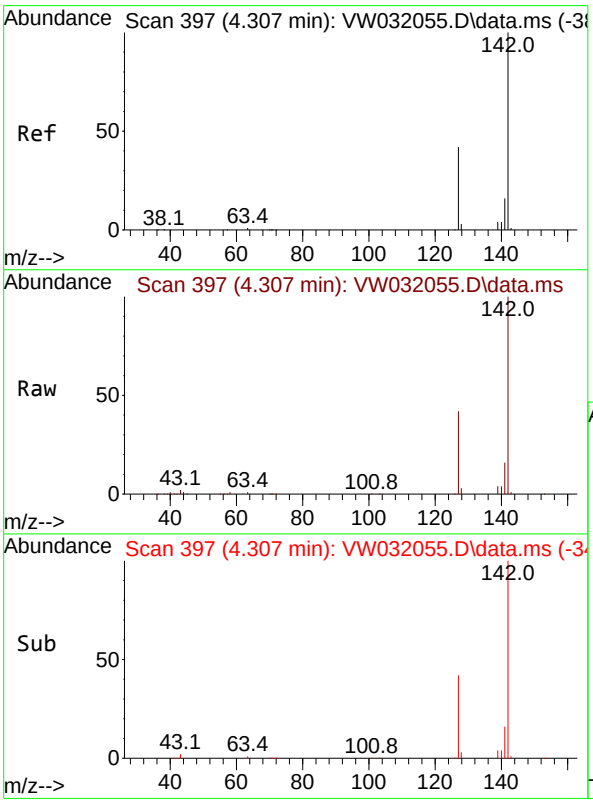

#9
1,1,2-Trichlorotrifluoroethane
Concen: 46.968 ug/l
RT: 4.094 min Scan# 3
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion:101 Resp: 115526

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 43.6 | 34.9 | 52.3 |
| 151 | 70.3 | 56.2 | 84.4 |

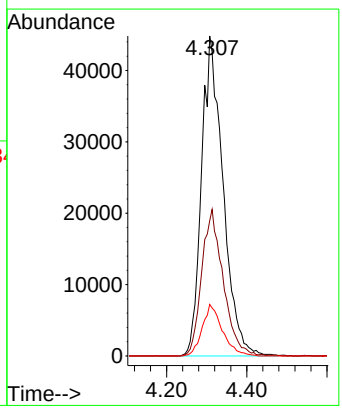


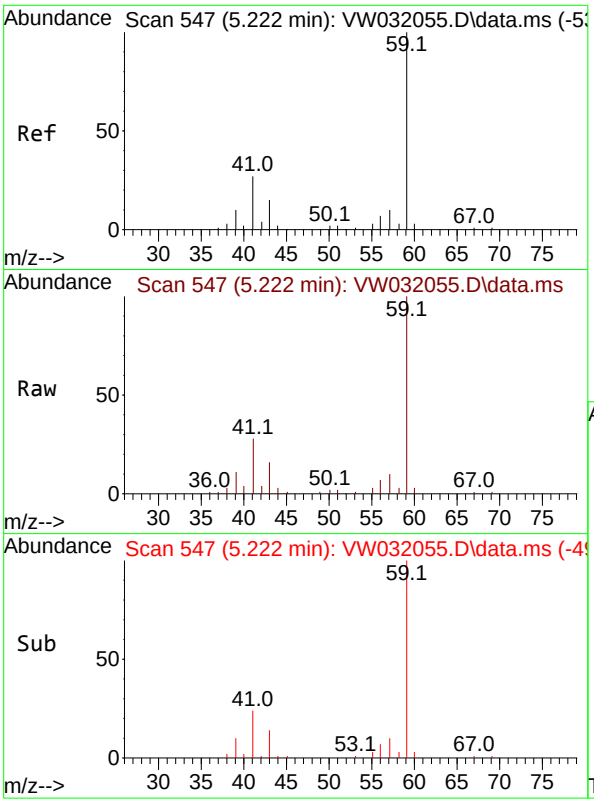




#10
Methyl Iodide
Concen: 47.909 ug/l
RT: 4.307 min Scan# 397
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:142 Resp: 167079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 45.8 | 36.6 | 55.0 |
| 141 | 15.1 | 12.1 | 18.1 |



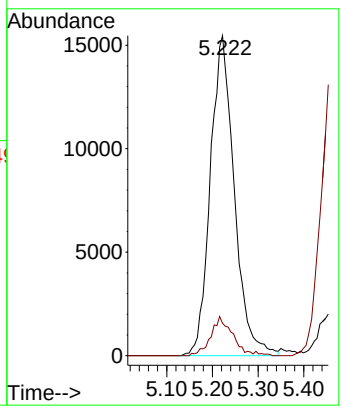


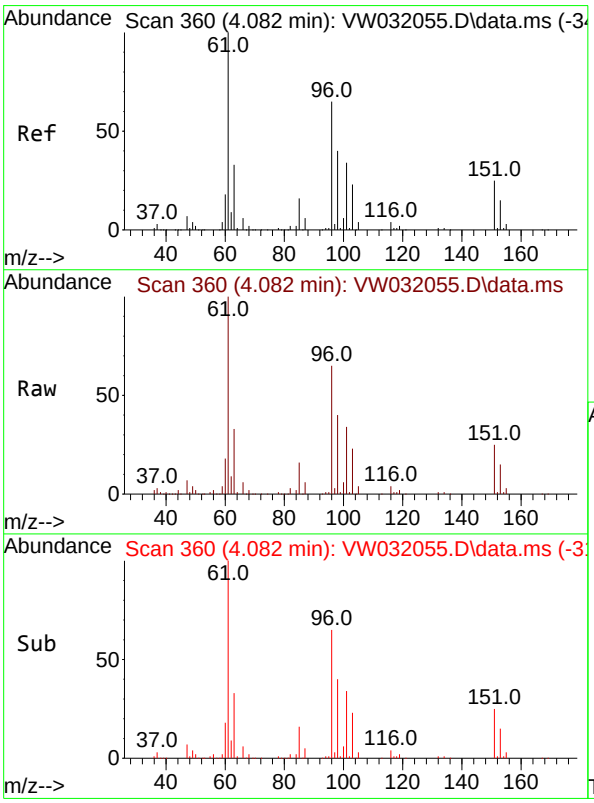

#11
Tert butyl alcohol
Concen: 269.294 ug/l
RT: 5.222 min Scan# 5
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 59 Resp: 56322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.9 | 8.7 | 13.1 |

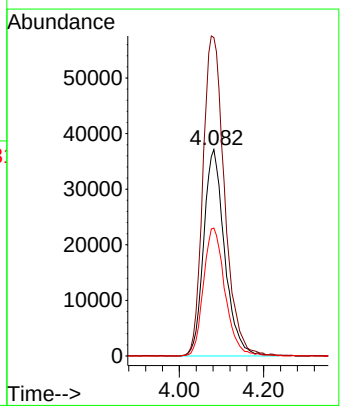


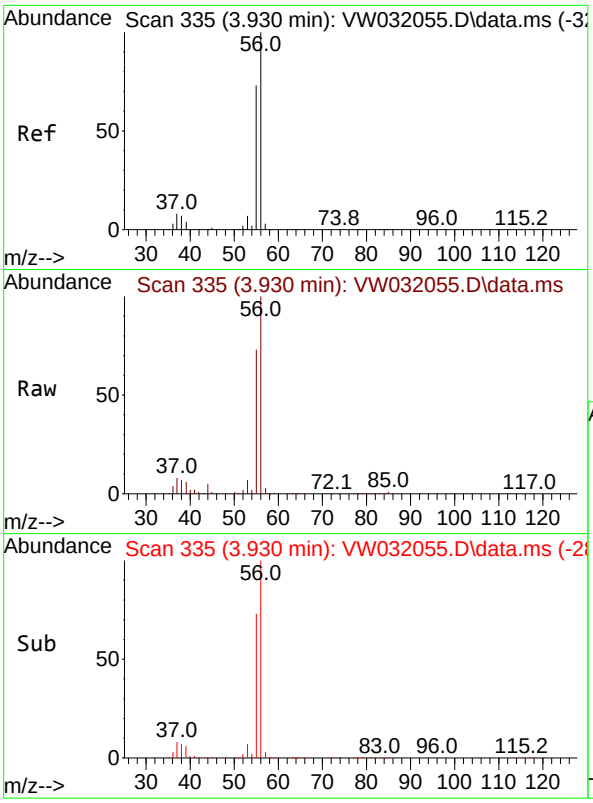




#12
1,1-Dichloroethene
Concen: 47.373 ug/l
RT: 4.082 min Scan# 360
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 96 Resp: 128304

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 154.3 | 123.4 | 185.2 |
| 98 | 61.9 | 49.5 | 74.3 |



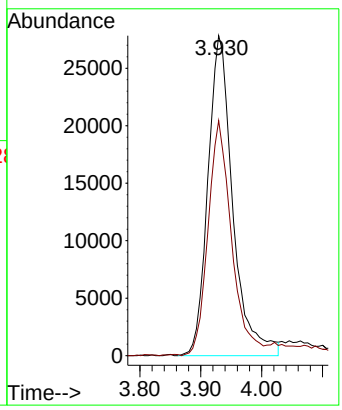


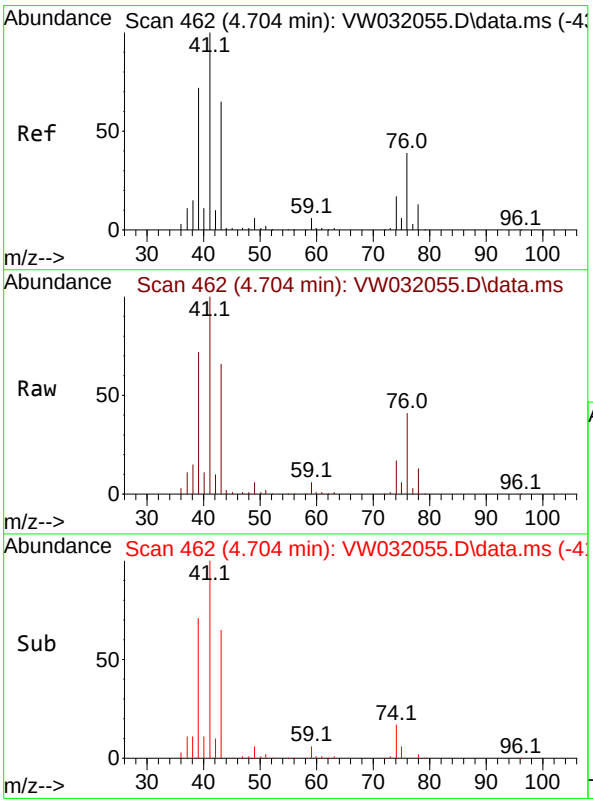

#13
Acrolein
Concen: 236.637 ug/l
RT: 3.930 min Scan# 3
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 56 Resp: 78858

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 69.3 | 55.4 | 83.2 |

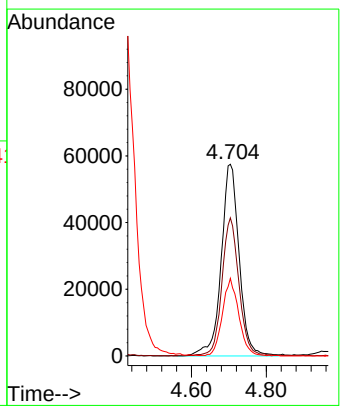


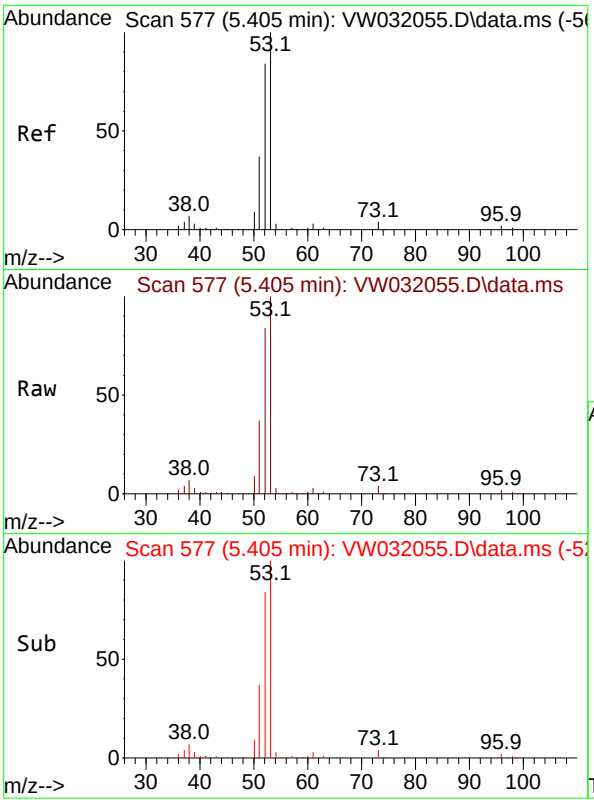




#14
Allyl chloride
Concen: 48.819 ug/l
RT: 4.704 min Scan# 462
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 41 Resp: 192434

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 68.1 | 54.5 | 81.7 |
| 76 | 36.6 | 29.3 | 43.9 |



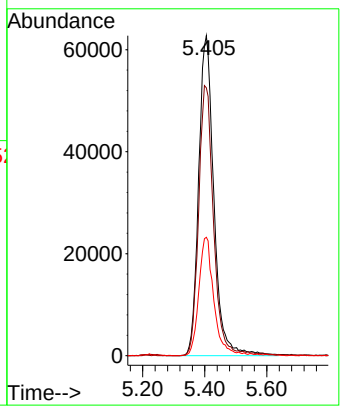


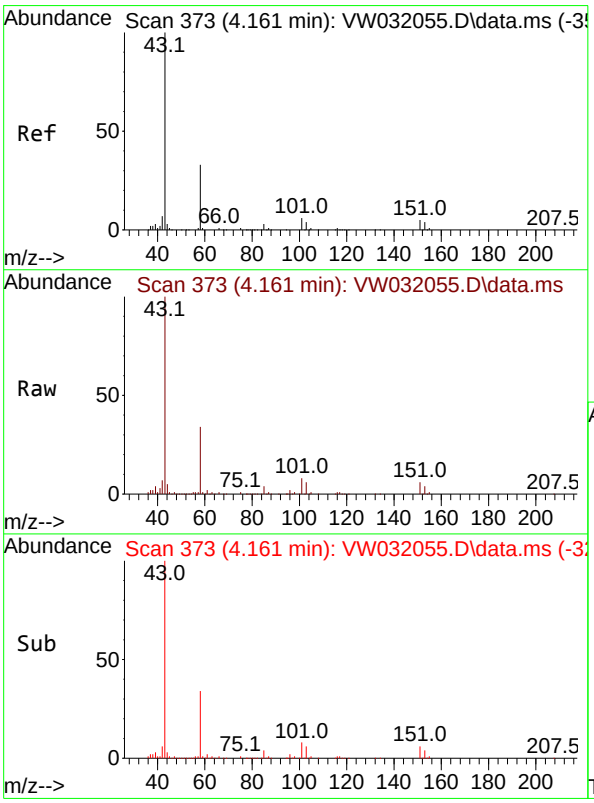

#15
Acrylonitrile
Concen: 262.963 ug/l
RT: 5.405 min Scan# 5
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 53 Resp: 213941

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.6 | 66.1 | 99.1 |
| 51 | 36.5 | 29.2 | 43.8 |

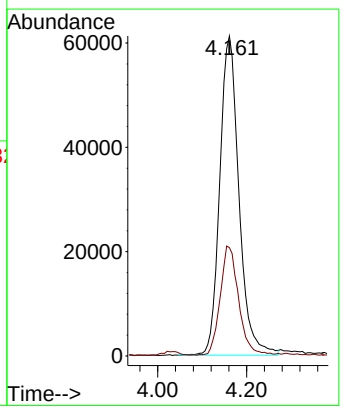


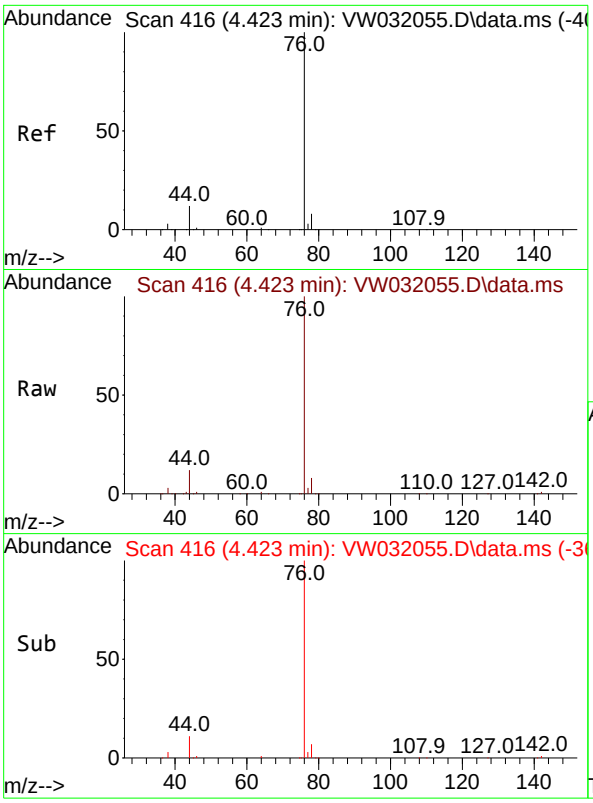




#16
Acetone
Concen: 244.127 ug/l
RT: 4.161 min Scan# 373
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 43 Resp: 182559

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.2 | 26.6 | 39.8 |



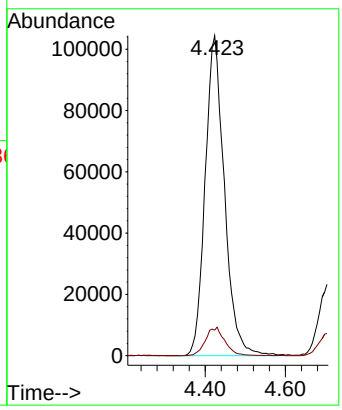


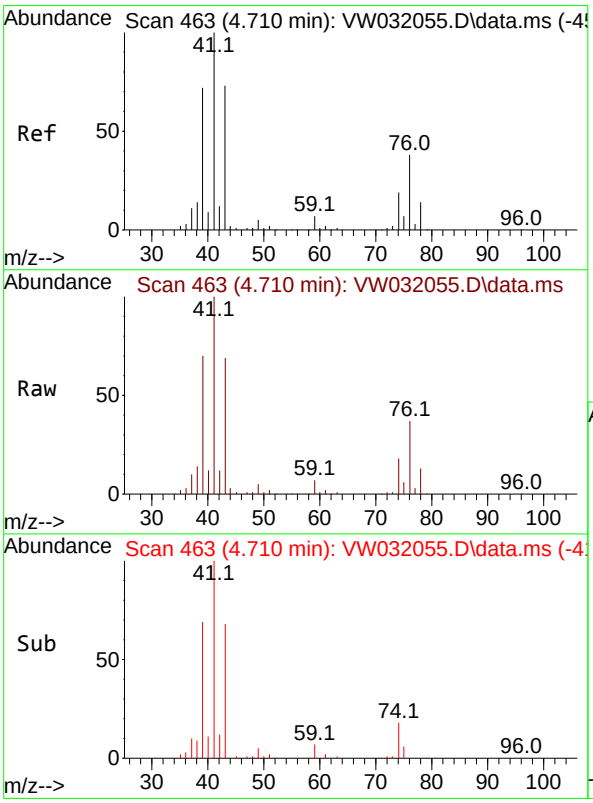

#17
Carbon Disulfide
Concen: 47.836 ug/l
RT: 4.423 min Scan# 4
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 76 Resp: 347752

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.0 | 6.4 | 9.6 |

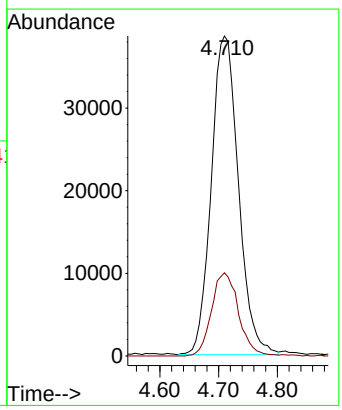


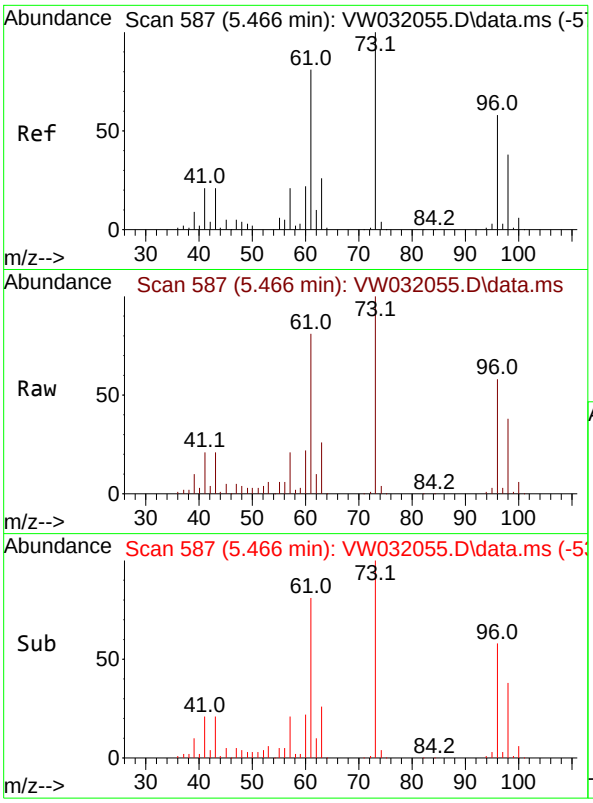




#18
Methyl Acetate
Concen: 52.361 ug/l
RT: 4.710 min Scan# 463
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 43 Resp: 123902

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 25.8 | 20.6 | 31.0 |



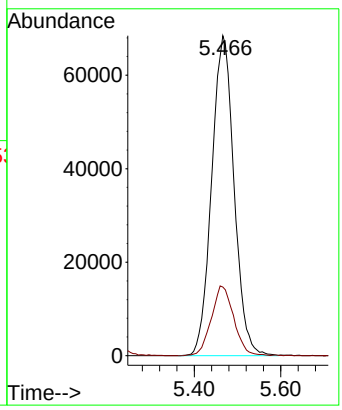


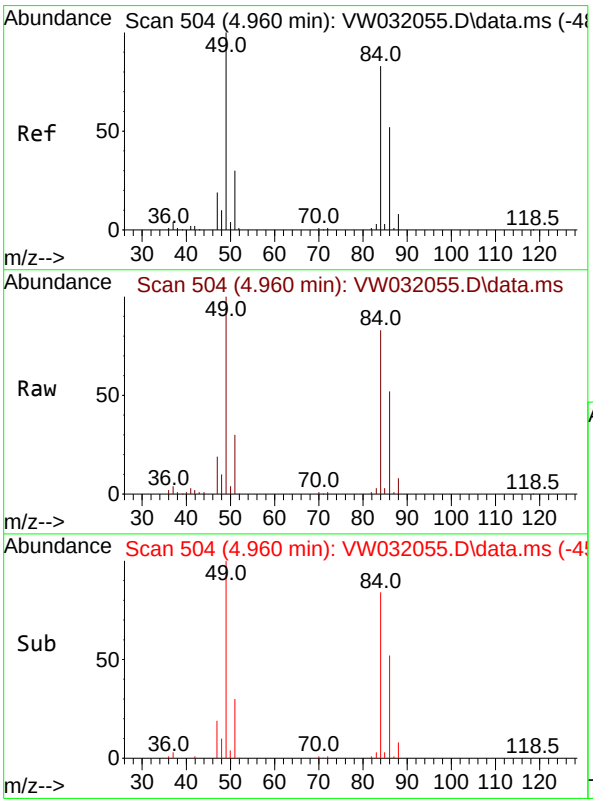

#19
Methyl tert-butyl Ether
Concen: 51.560 ug/l
RT: 5.466 min Scan# 5
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 73 Resp: 246045

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.5 | 17.2 | 25.8 |

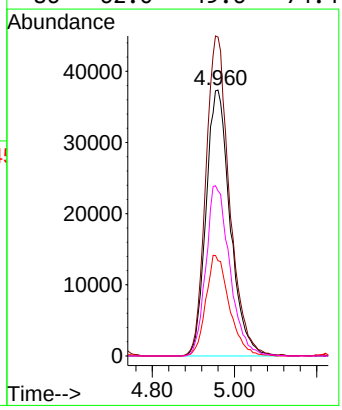


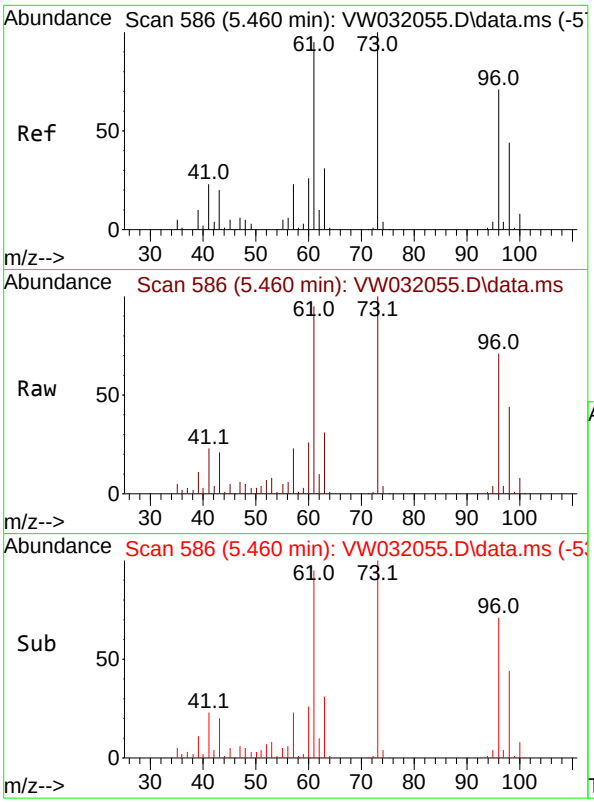




#20
Methylene Chloride
Concen: 44.016 ug/l
RT: 4.960 min Scan# 504
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 84 Resp: 152186

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 119.9 | 95.9 | 143.9 |
| 51 | 35.8 | 28.6 | 43.0 |
| 86 | 62.0 | 49.6 | 74.4 |



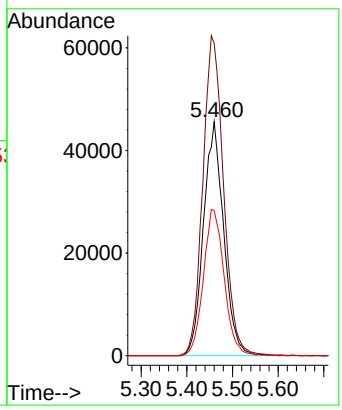


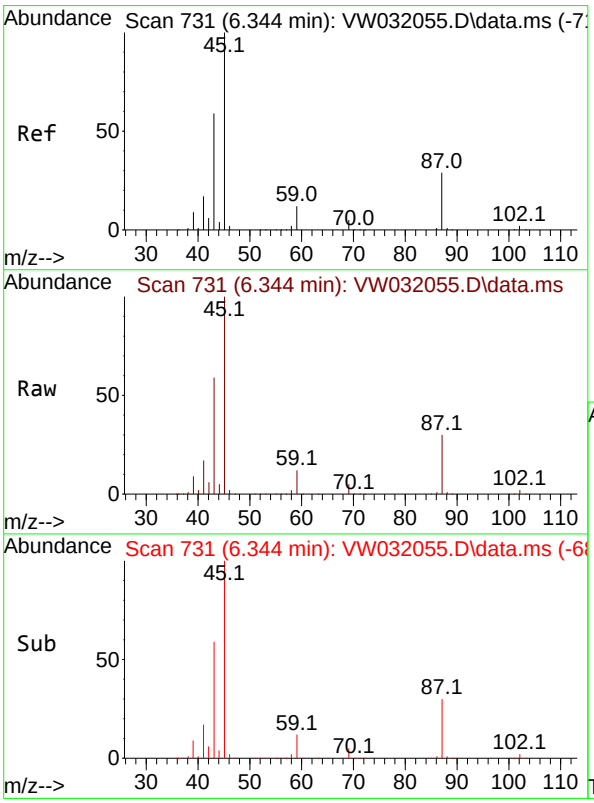

#21
trans-1,2-Dichloroethene
Concen: 48.707 ug/l
RT: 5.460 min Scan# 5
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 96 Resp: 139994

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 133.5 | 106.8 | 160.2 |
| 98 | 62.0 | 49.6 | 74.4 |

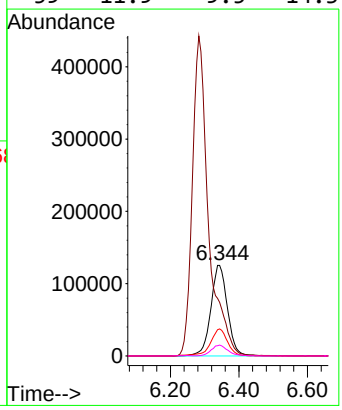


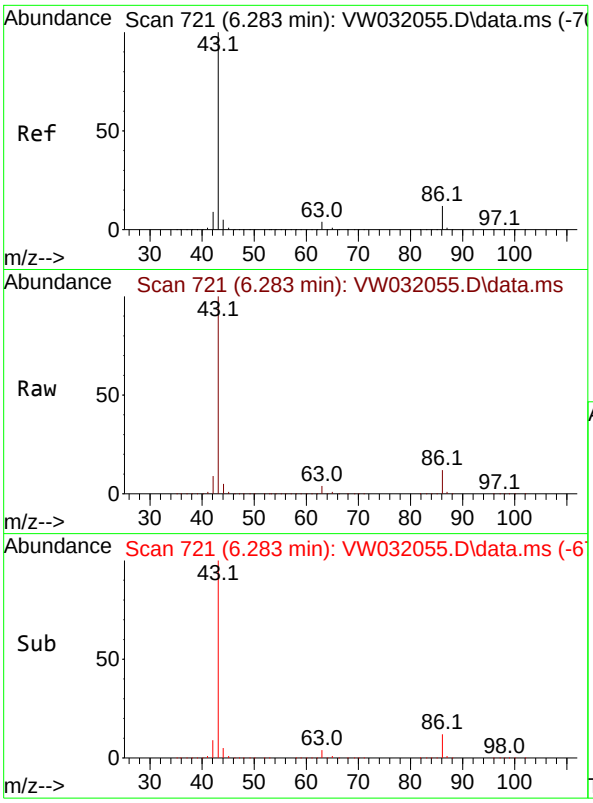




#22
Diisopropyl ether
Concen: 50.751 ug/l
RT: 6.344 min Scan# 731
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 45 Resp: 421731

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 58.7 | 47.0 | 70.4 |
| 87 | 29.8 | 23.8 | 35.8 |
| 59 | 11.9 | 9.5 | 14.3 |



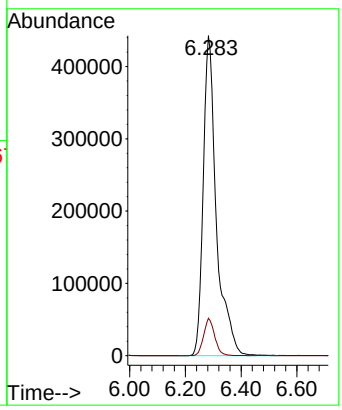


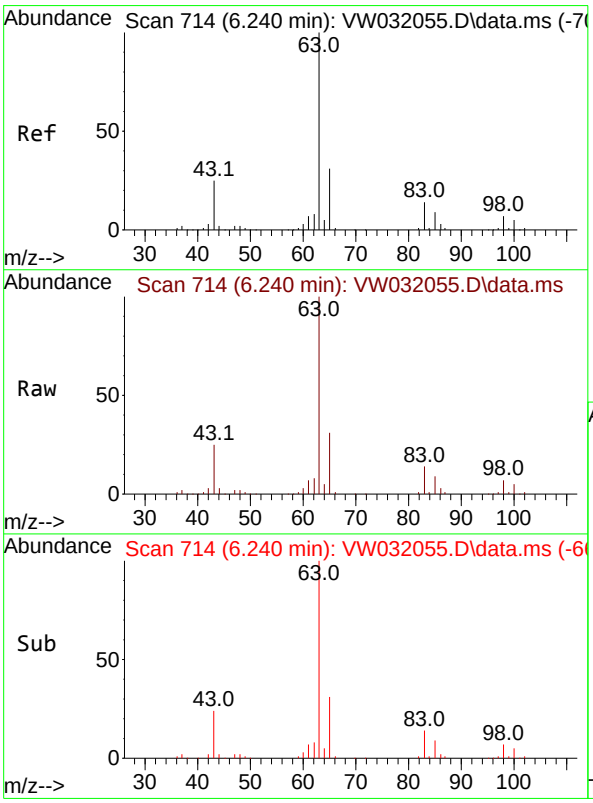

#23
Vinyl Acetate
Concen: 265.873 ug/l
RT: 6.283 min Scan# 7
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 43 Resp: 1450553

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.7 | 9.4 | 14.0 |

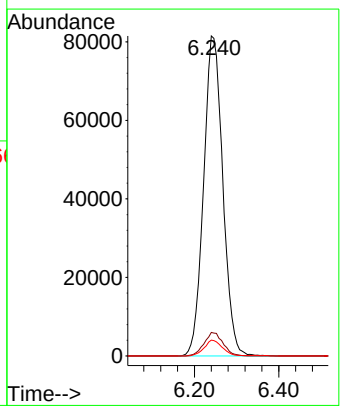


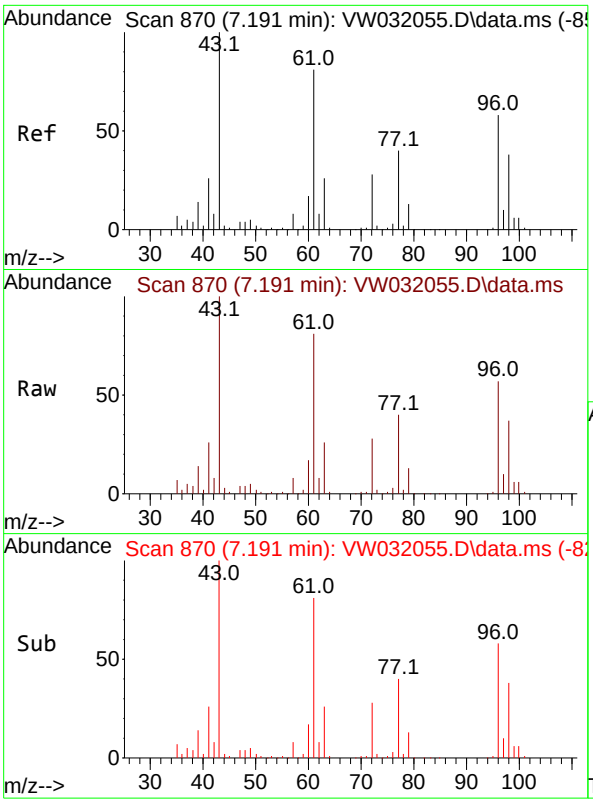




#24
1,1-Dichloroethane
Concen: 48.646 ug/l
RT: 6.240 min Scan# 714
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 63 Resp: 258279

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.4 | 3.7 | 11.1 |
| 100 | 4.9 | 2.5 | 7.4 |



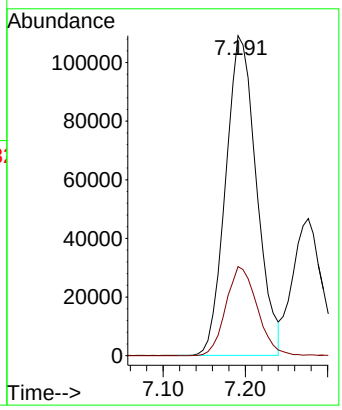


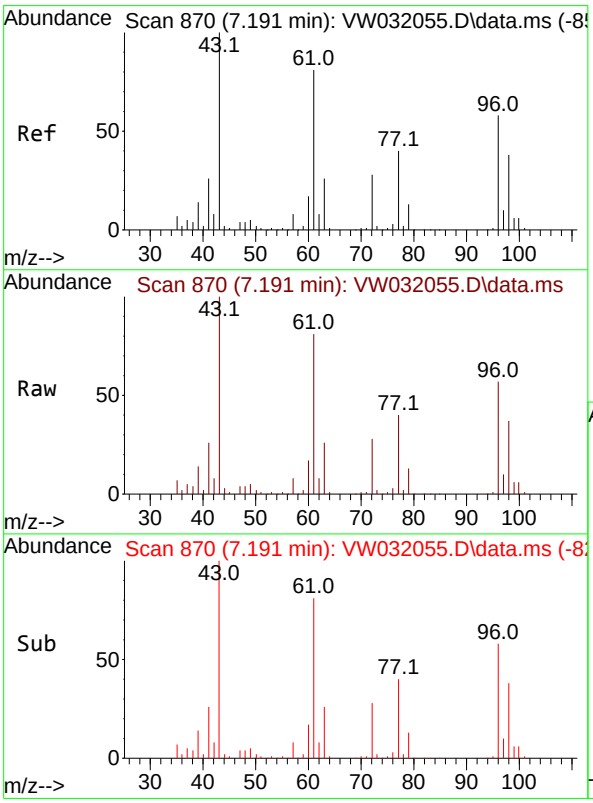

#25
2-Butanone
Concen: 267.883 ug/l
RT: 7.191 min Scan# 8
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 43 Resp: 284711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 27.9 | 22.3 | 33.5 |

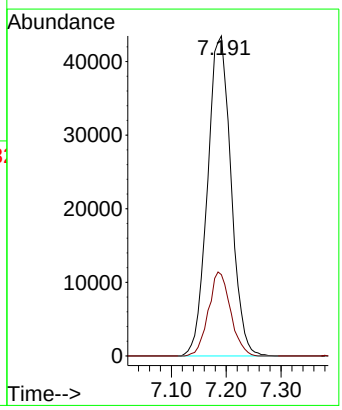


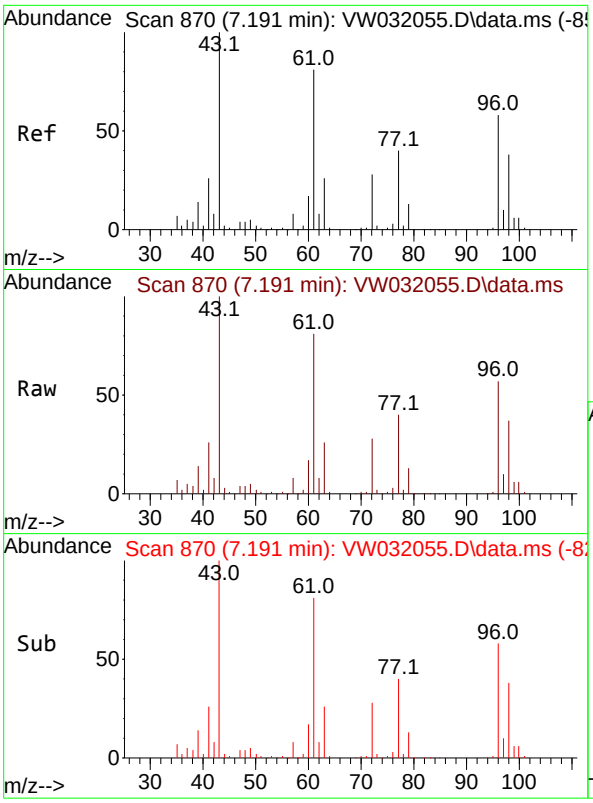




#26
2,2-Dichloropropane
Concen: 48.578 ug/l
RT: 7.191 min Scan# 870
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 77 Resp: 129390

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 24.6 | 12.3 | 36.9 |



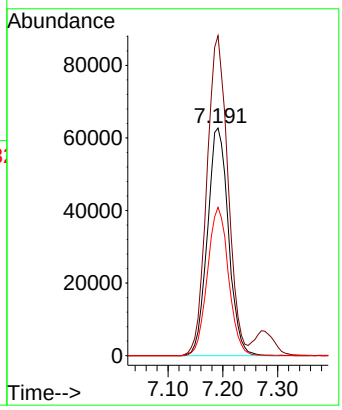


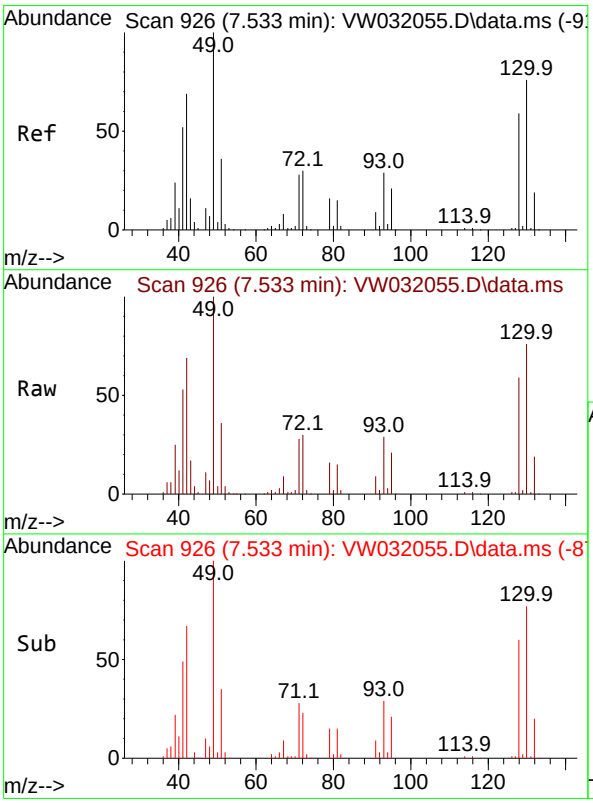

#27
cis-1,2-Dichloroethene
Concen: 49.779 ug/l
RT: 7.191 min Scan# 8
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 96 Resp: 167240

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 140.6 | 0.0 | 281.2 |
| 98 | 65.4 | 0.0 | 130.8 |

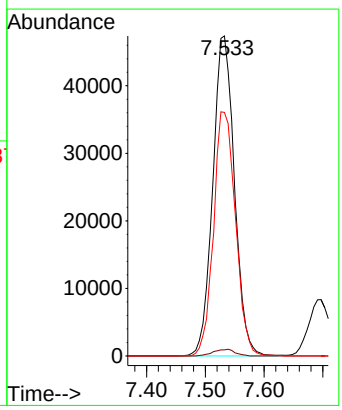


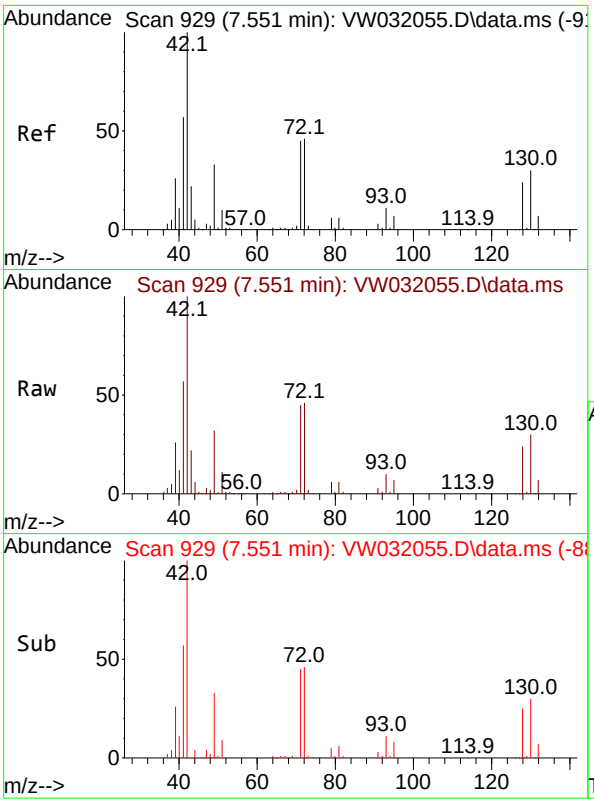




#28
Bromochloromethane
Concen: 50.191 ug/l
RT: 7.533 min Scan# 926
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 49 Resp: 121266

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.1 | 0.0 | 4.2 |
| 130 | 77.4 | 61.9 | 92.9 |



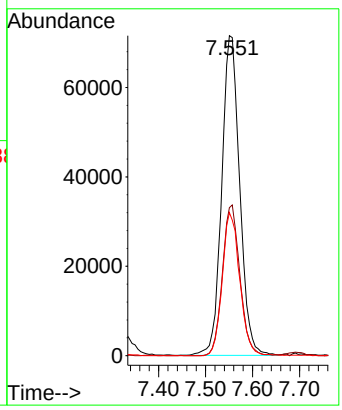


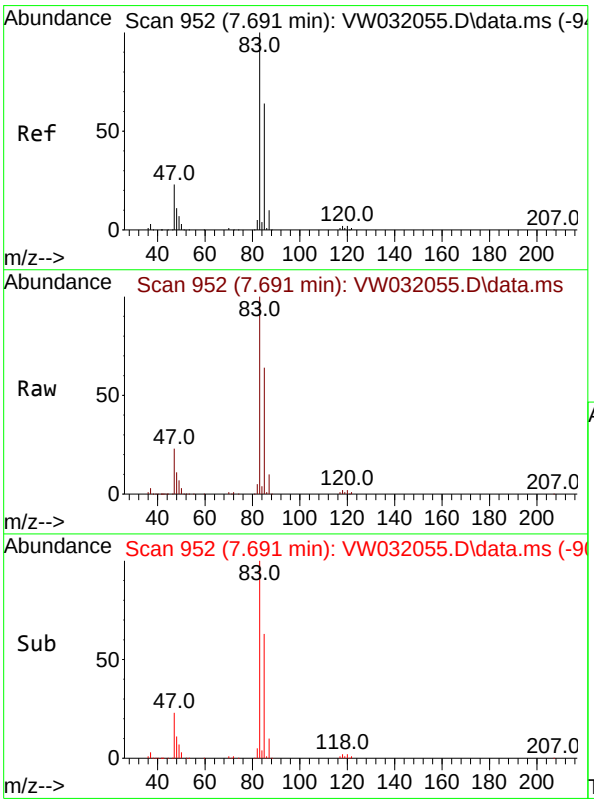

#29
Tetrahydrofuran
Concen: 272.100 ug/l
RT: 7.551 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 42 Resp: 190719

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 45.8 | 36.6 | 55.0 |
| 71 | 43.4 | 34.7 | 52.1 |

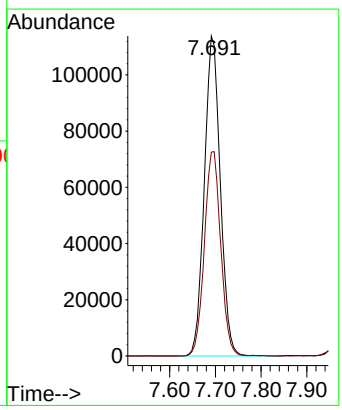


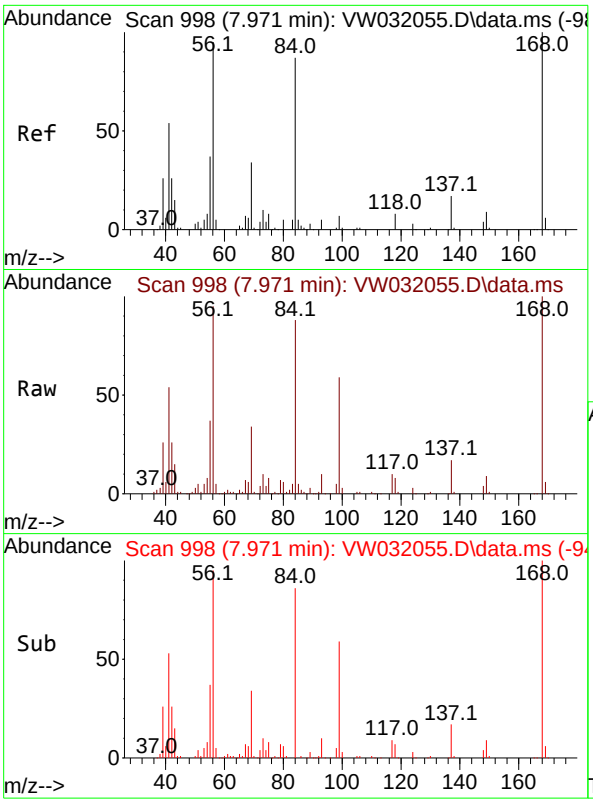




#30
Chloroform
Concen: 49.018 ug/l
RT: 7.691 min Scan# 952
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 83 Resp: 275905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.7 | 51.0 | 76.4 |



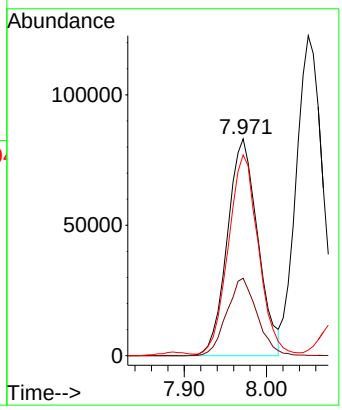


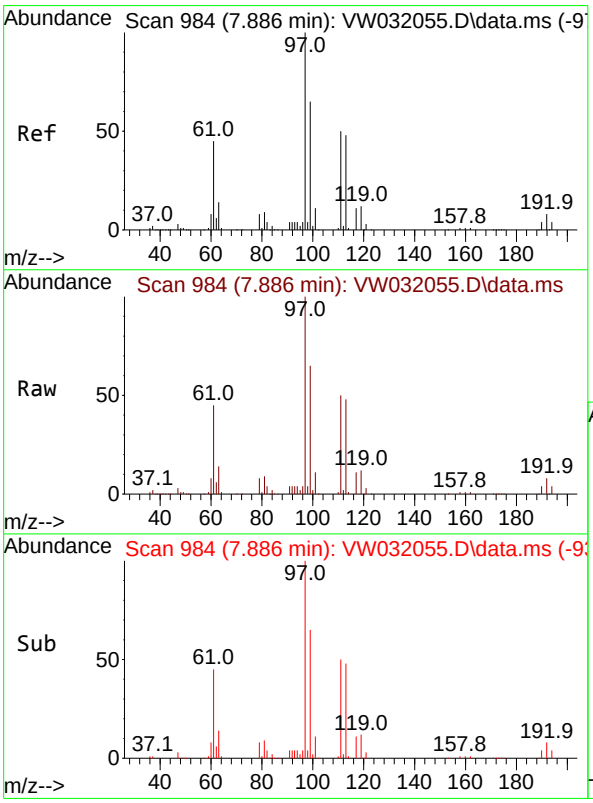

#31
Cyclohexane
Concen: 46.622 ug/l
RT: 7.971 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 56 Resp: 214597

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 35.7 | 28.6 | 42.8 |
| 84 | 91.2 | 73.0 | 109.4 |

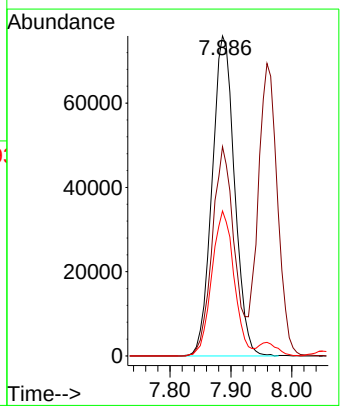


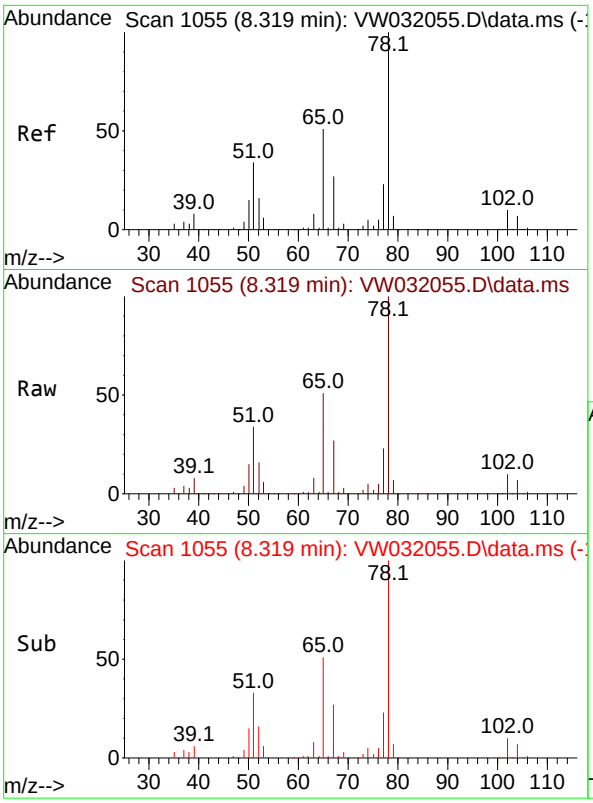




#32
1,1,1-Trichloroethane
Concen: 47.617 ug/l
RT: 7.886 min Scan# 984
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 97 Resp: 194676

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.8 | 51.8 | 77.8 |
| 61 | 44.9 | 35.9 | 53.9 |



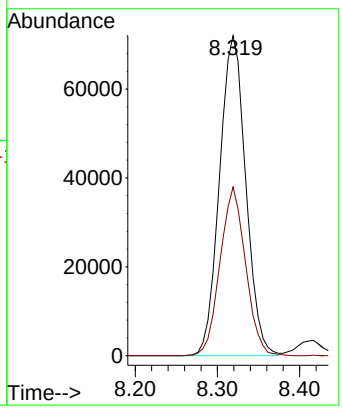


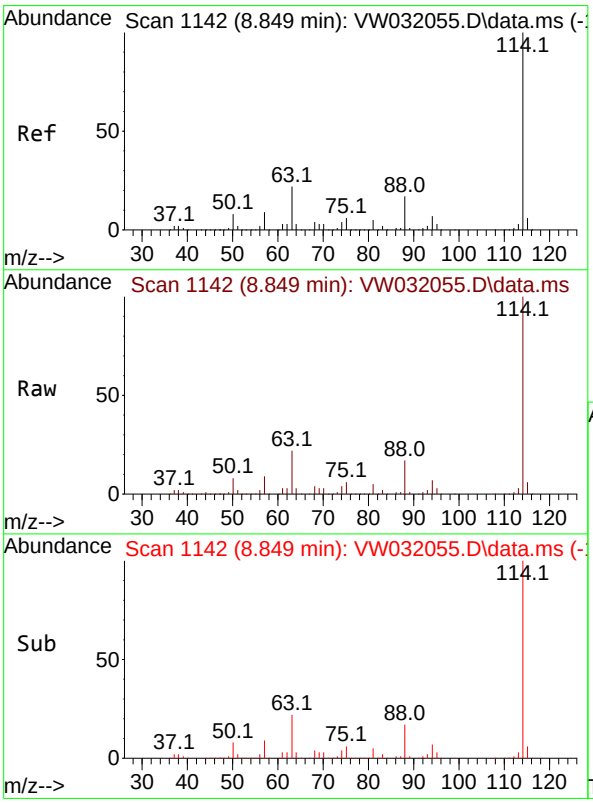

#33
1,2-Dichloroethane-d4
Concen: 49.529 ug/l
RT: 8.319 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 65 Resp: 159972

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.2 | 0.0 | 102.4 |

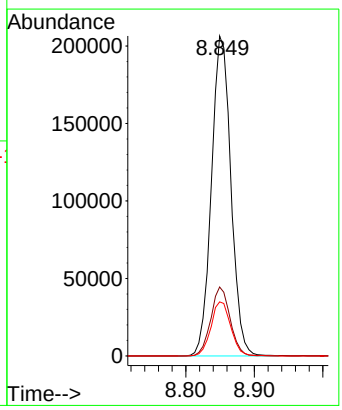


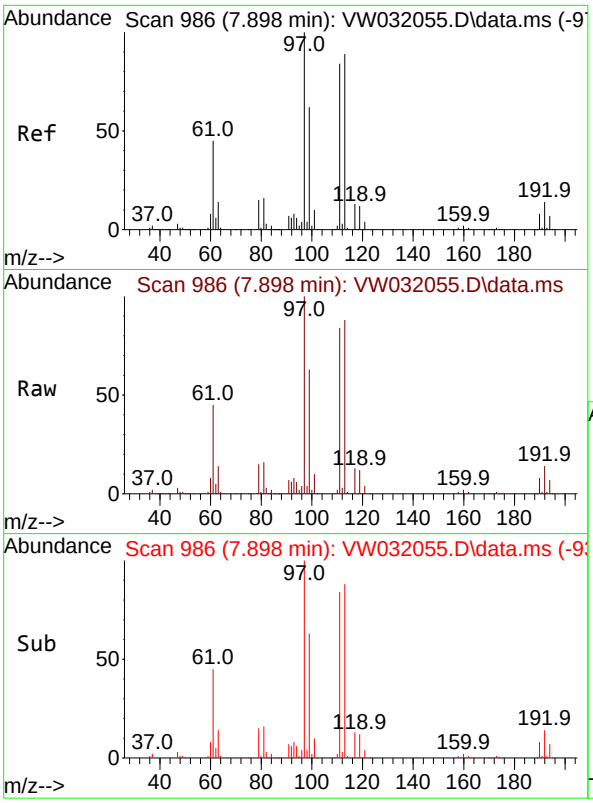




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:114 Resp: 406973

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.5 | 0.0 | 43.0 |
| 88 | 16.9 | 0.0 | 33.8 |



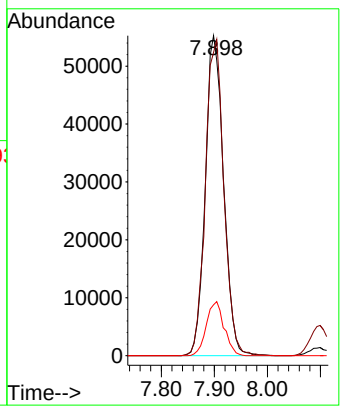


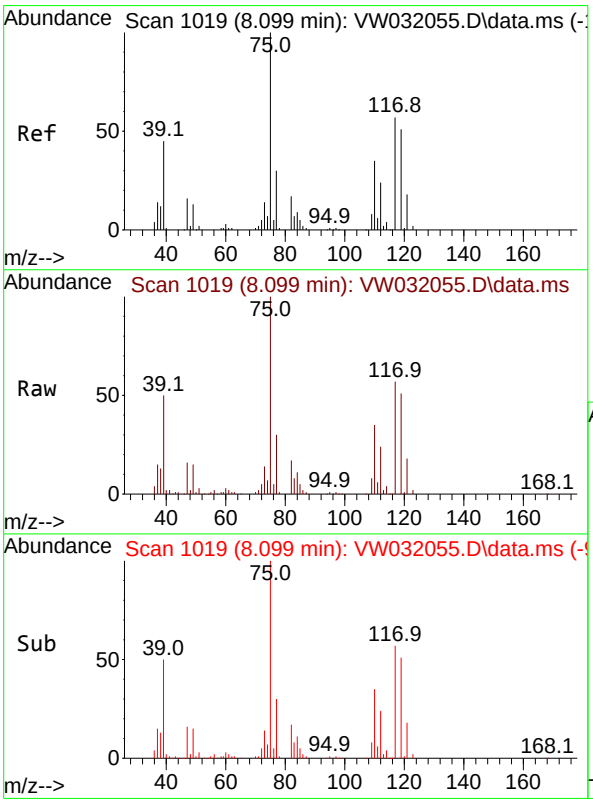

#35
Dibromofluoromethane
Concen: 50.279 ug/l
RT: 7.898 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion:113 Resp: 132195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 100.1 | 80.1 | 120.1 |
| 192 | 16.4 | 13.1 | 19.7 |

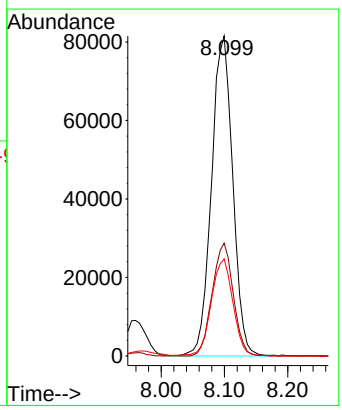


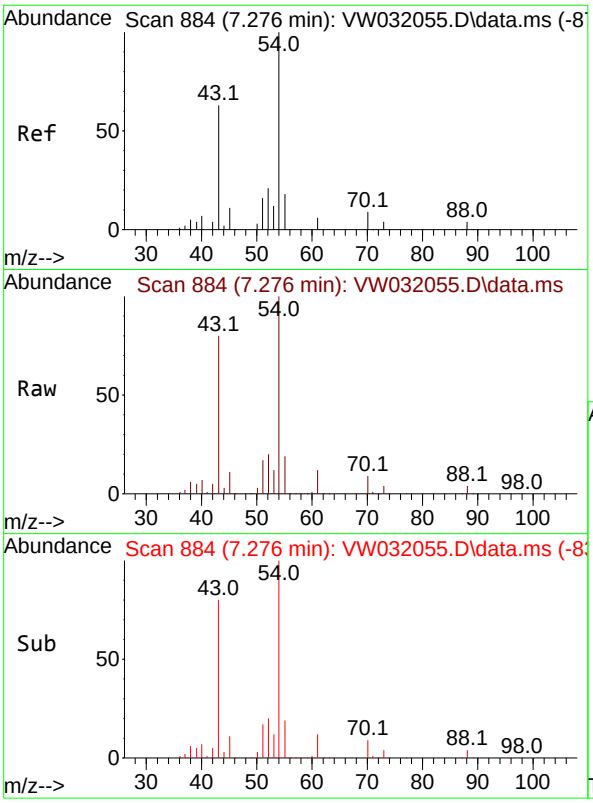




#36
1,1-Dichloropropene
Concen: 51.274 ug/l
RT: 8.099 min Scan# 1019
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 75 Resp: 190046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 34.8 | 17.4 | 52.2 |
| 77 | 30.9 | 24.7 | 37.1 |



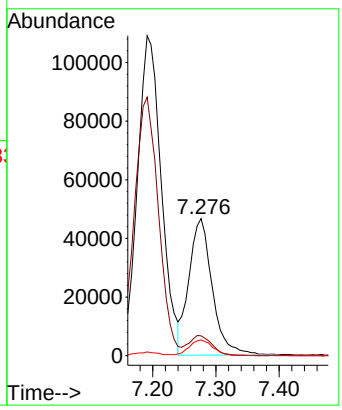


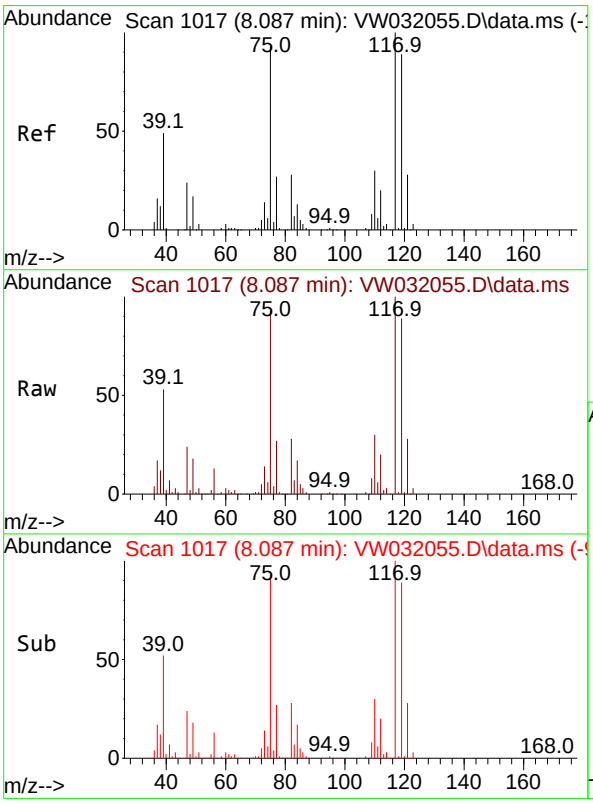

#37
Ethyl Acetate
Concen: 54.829 ug/l
RT: 7.276 min Scan# 8
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 43 Resp: 119689

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.7 | 11.8 | 17.6 |
| 70 | 11.7 | 9.4 | 14.0 |

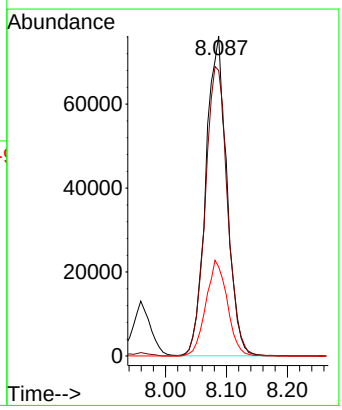


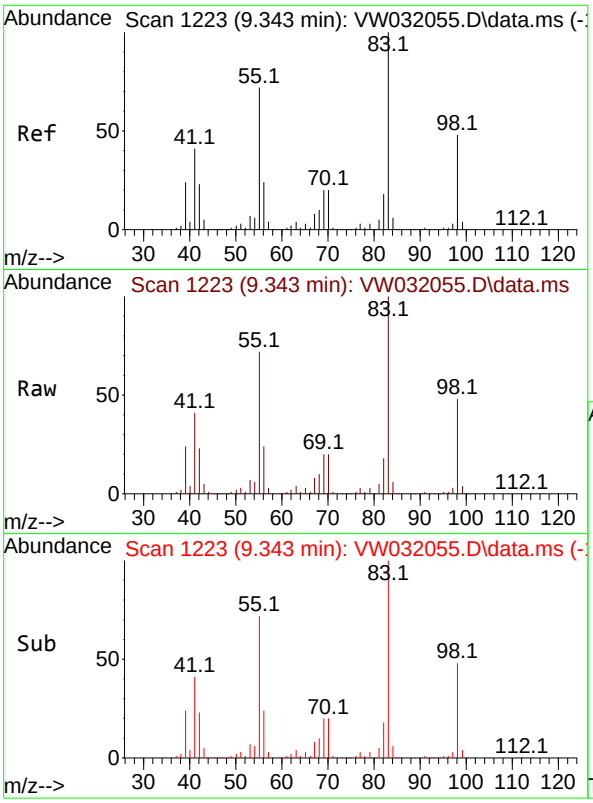




#38
Carbon Tetrachloride
Concen: 51.000 ug/l
RT: 8.087 min Scan# 1017
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:117 Resp: 182422

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 89.3 | 71.4 | 107.2 |
| 121 | 27.9 | 22.3 | 33.5 |



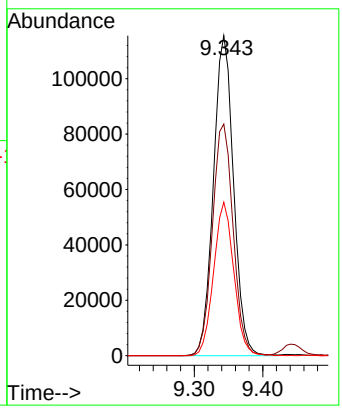


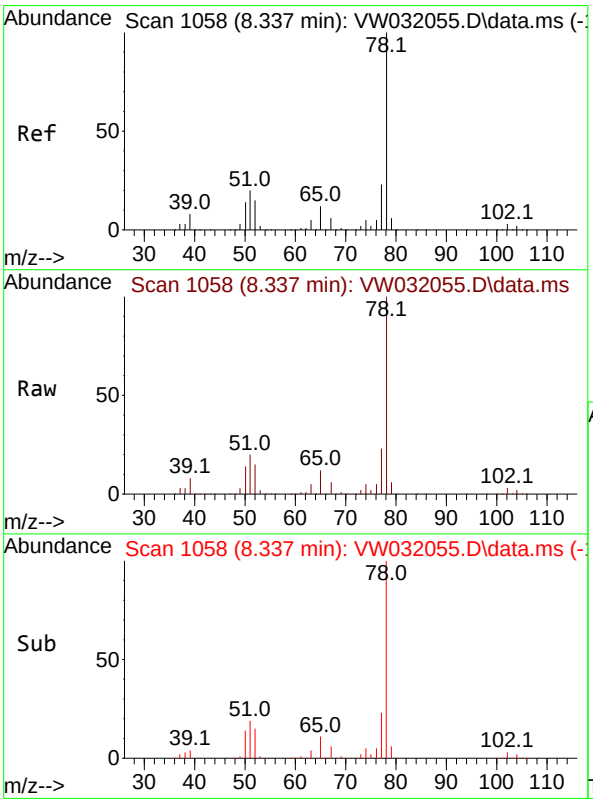

#39
Methylcyclohexane
Concen: 52.093 ug/l
RT: 9.343 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 83 Resp: 235341

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 72.4 | 57.9 | 86.9 |
| 98 | 47.9 | 38.3 | 57.5 |

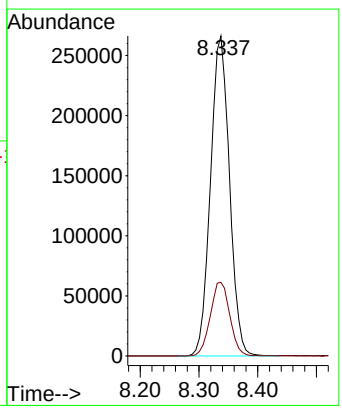


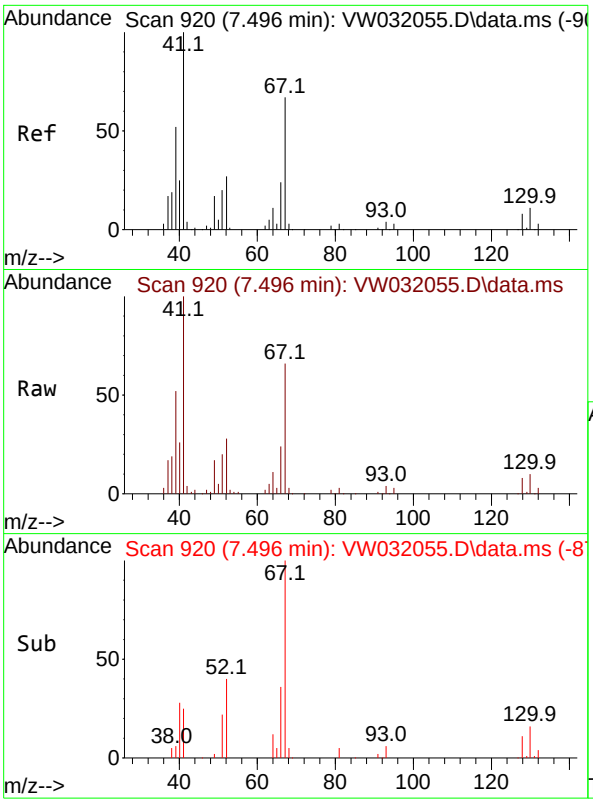




#40
Benzene
Concen: 51.883 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 78 Resp: 597760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.0 | 18.4 | 27.6 |



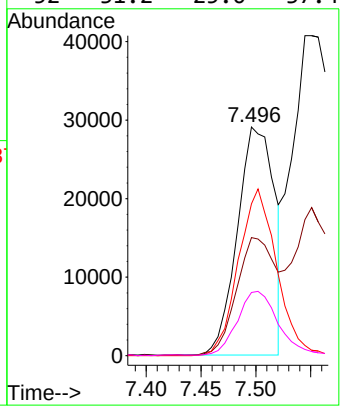


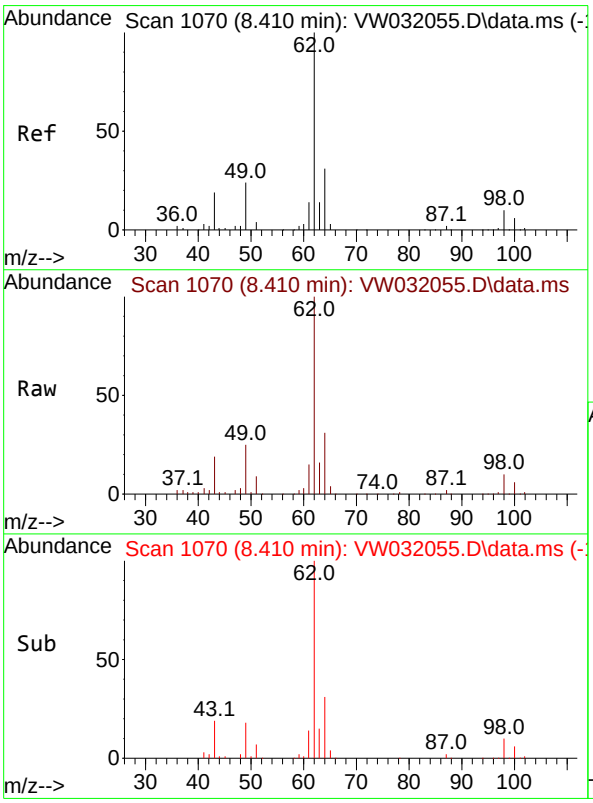

#41
Methacrylonitrile
Concen: 55.039 ug/l
RT: 7.496 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 41 Resp: 68136

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 53.2 | 42.6 | 63.8 |
| 67 | 76.2 | 61.0 | 91.4 |
| 52 | 31.2 | 25.0 | 37.4 |

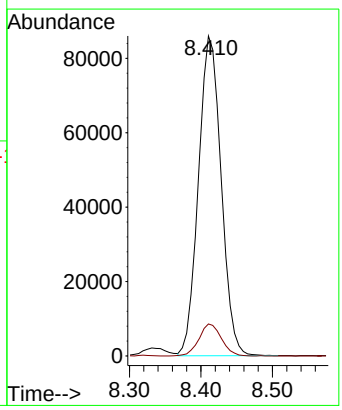


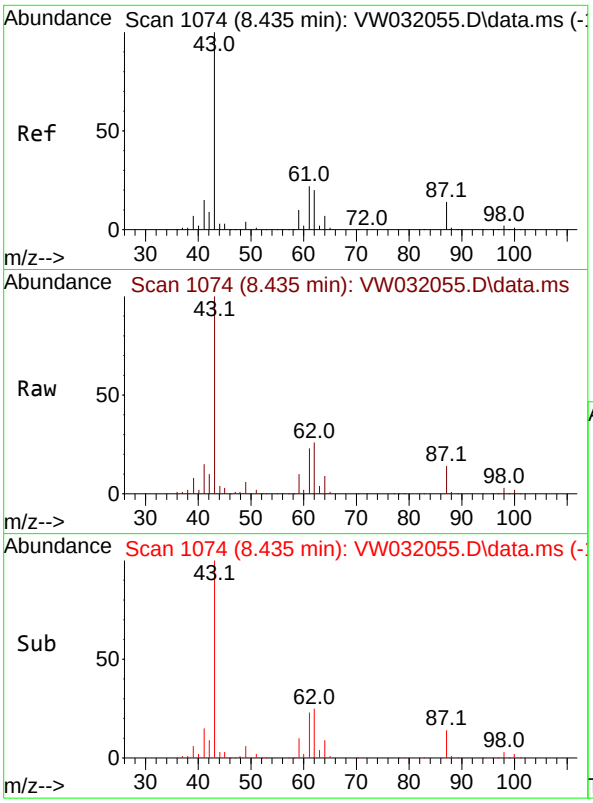




#42
1,2-Dichloroethane
Concen: 51.471 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 62 Resp: 189755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.9 | 0.0 | 19.8 |



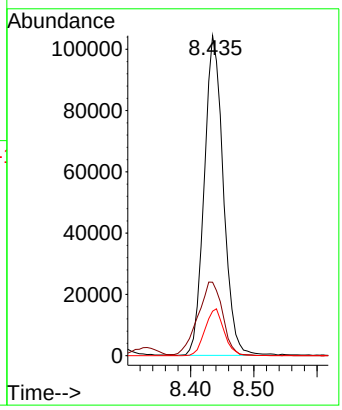


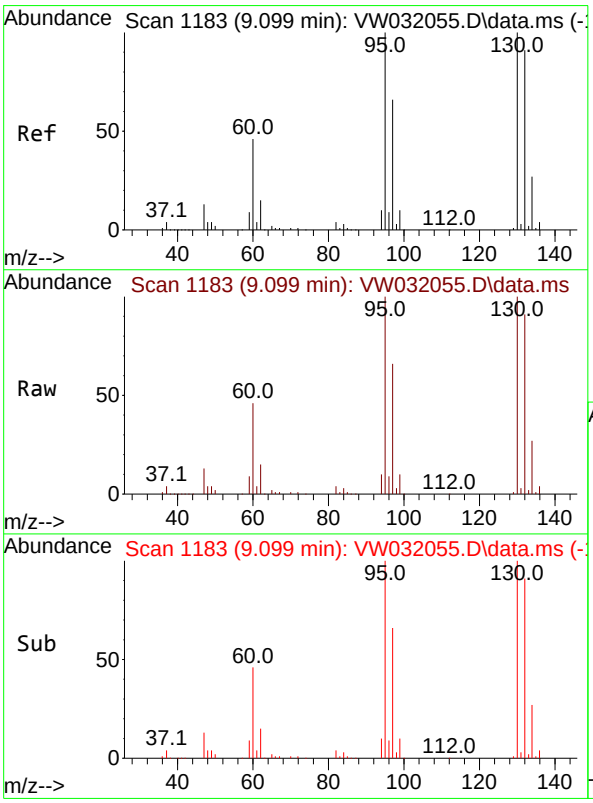

#43
Isopropyl Acetate
Concen: 54.544 ug/l
RT: 8.435 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 43 Resp: 219064

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 29.8 | 23.8 | 35.8 |
| 87 | 14.6 | 11.7 | 17.5 |

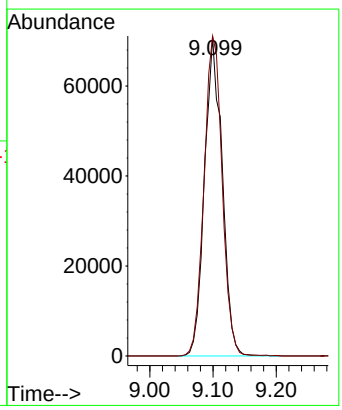


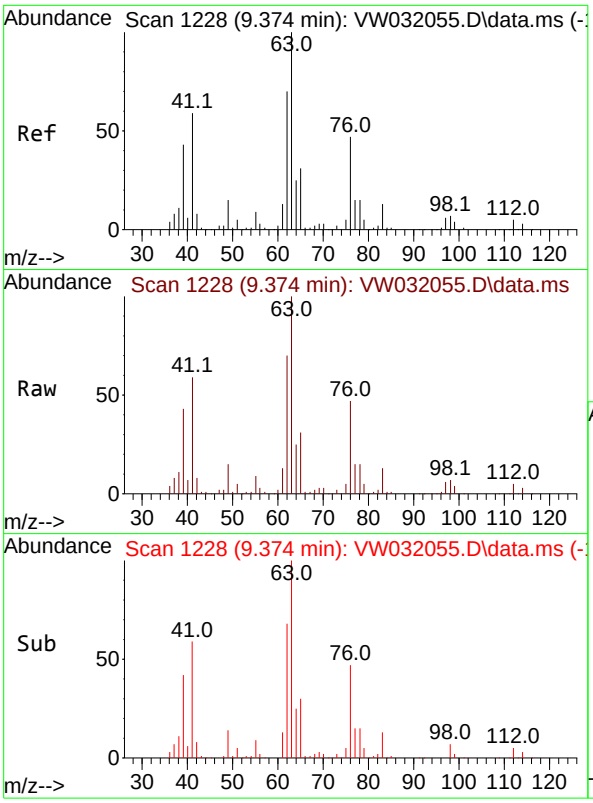




#44
Trichloroethene
Concen: 50.264 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:130 Resp: 137910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 100.3 | 0.0 | 200.6 |



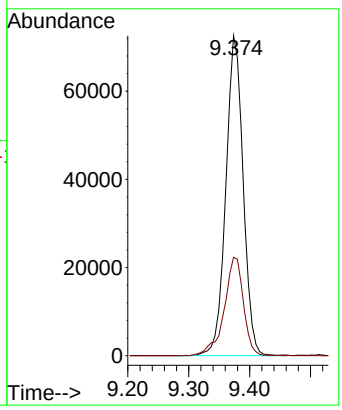


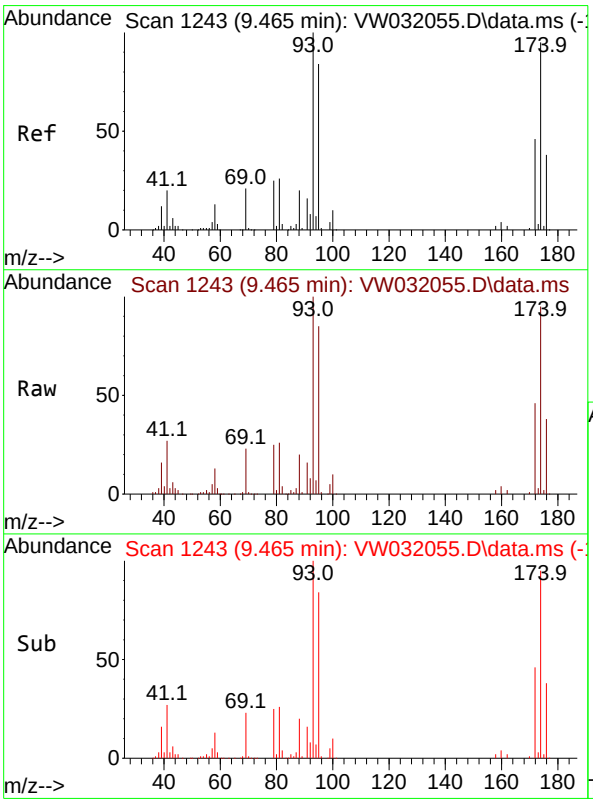

#45
1,2-Dichloropropane
Concen: 51.537 ug/l
RT: 9.374 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 63 Resp: 143446

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.7 | 24.6 | 36.8 |

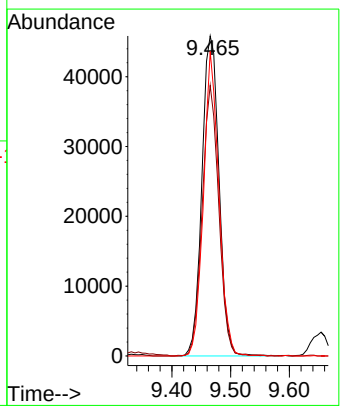


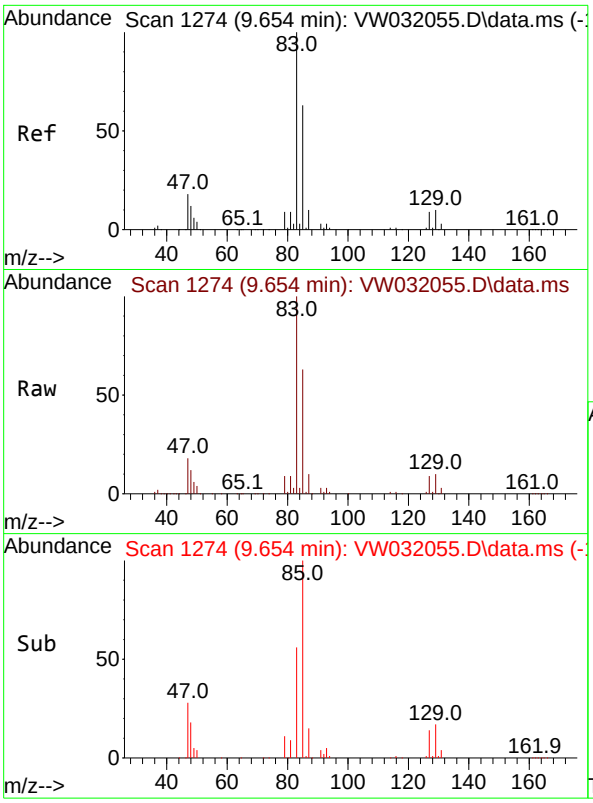




#46
Dibromomethane
Concen: 51.770 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 93 Resp: 93001

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 81.6 | 65.3 | 97.9 |
| 174 | 85.7 | 68.6 | 102.8 |



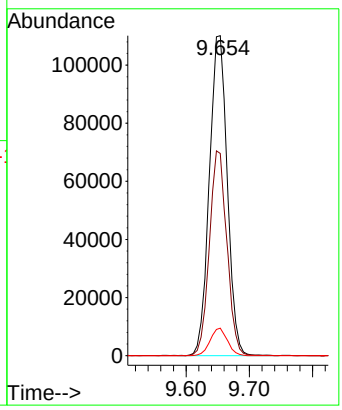


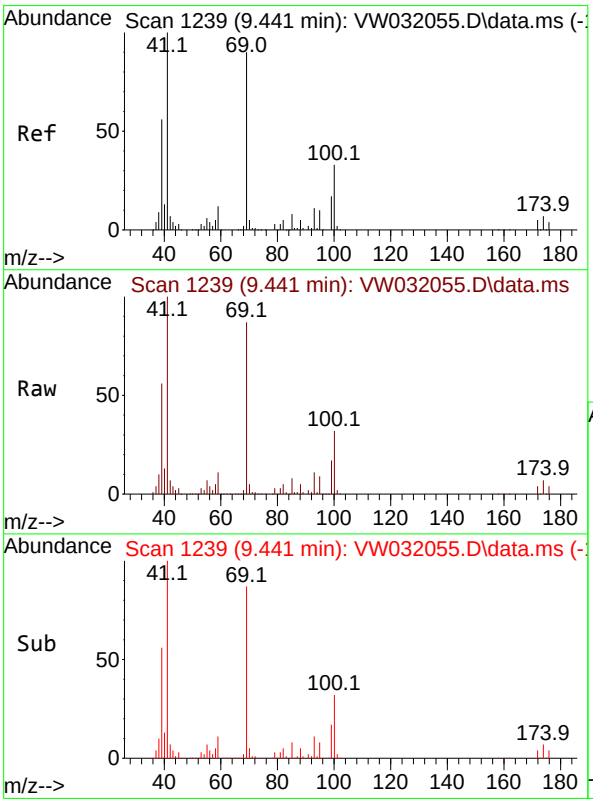

#47
Bromodichloromethane
Concen: 52.307 ug/l
RT: 9.654 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 83 Resp: 216521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.2 | 50.6 | 75.8 |
| 127 | 8.6 | 6.9 | 10.3 |

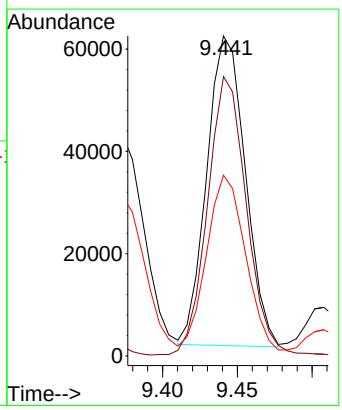


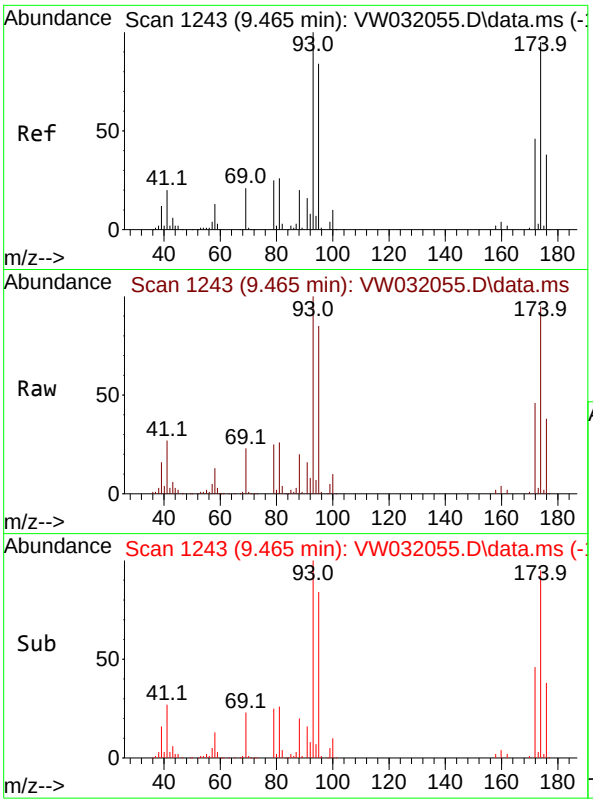




#48
Methyl methacrylate
Concen: 55.849 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 41 Resp: 108287

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 91.3 | 73.0 | 109.6 |
| 39 | 56.2 | 45.0 | 67.4 |



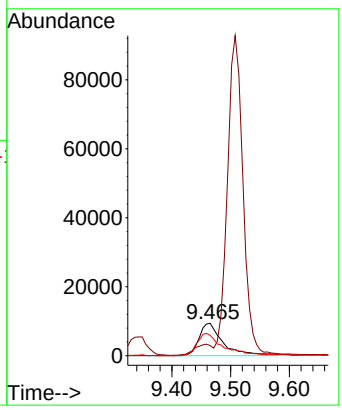


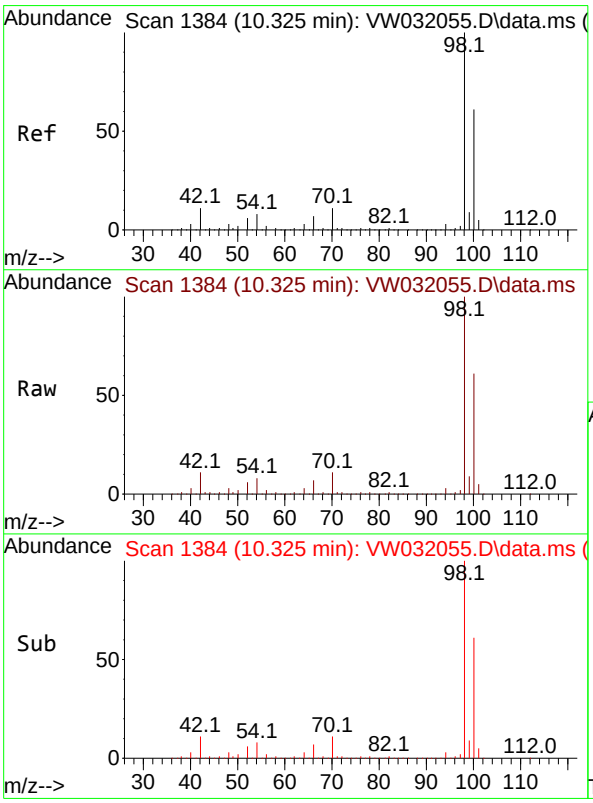

#49
1,4-Dioxane
Concen: 1144.321 ug/l
RT: 9.465 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 88 Resp: 26579

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 25.7 | 20.6 | 30.8 |
| 58 | 75.5 | 60.4 | 90.6 |

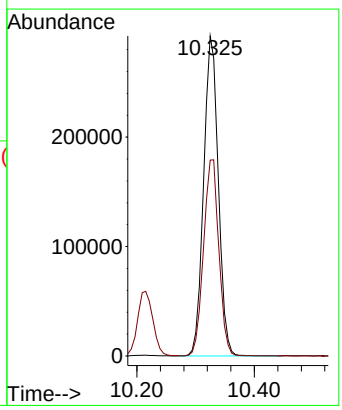


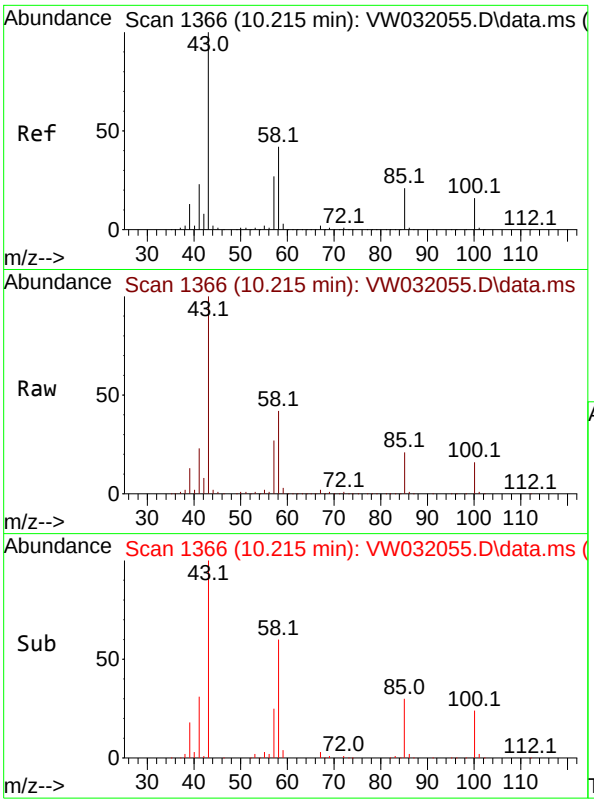




#50
Toluene-d8
Concen: 52.098 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 98 Resp: 506634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.9 | 51.1 | 76.7 |



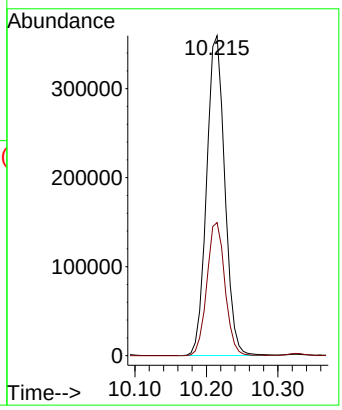


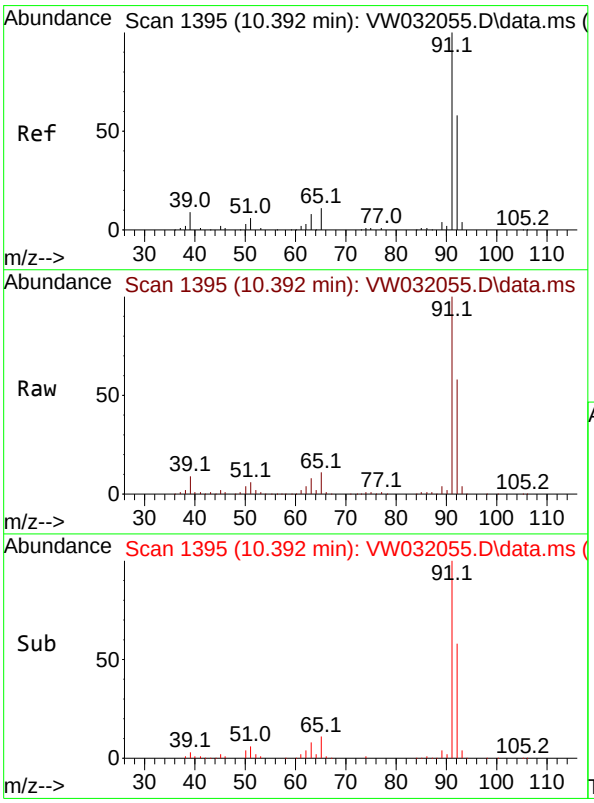

#51
4-Methyl-2-Pentanone
Concen: 280.194 ug/l
RT: 10.215 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 43 Resp: 635174

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 41.4 | 33.1 | 49.7 |

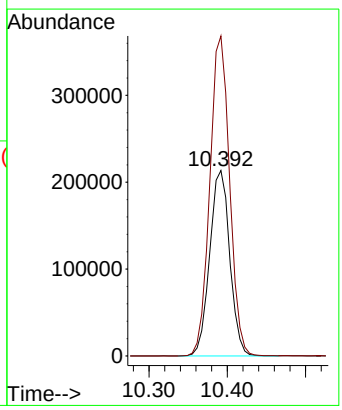


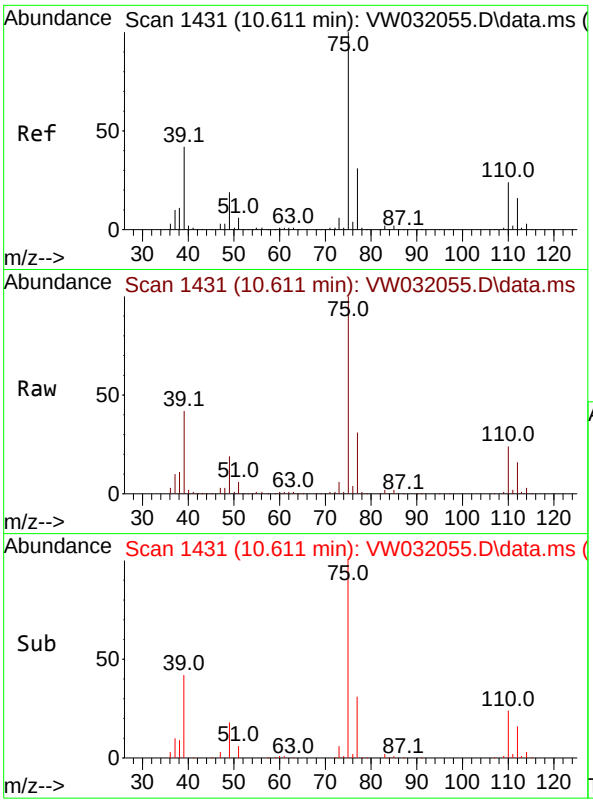




#52
Toluene
Concen: 52.258 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 92 Resp: 379230

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 170.4 | 136.3 | 204.5 |



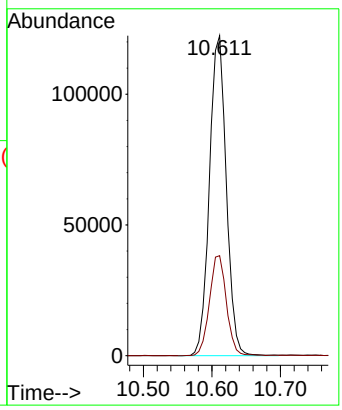


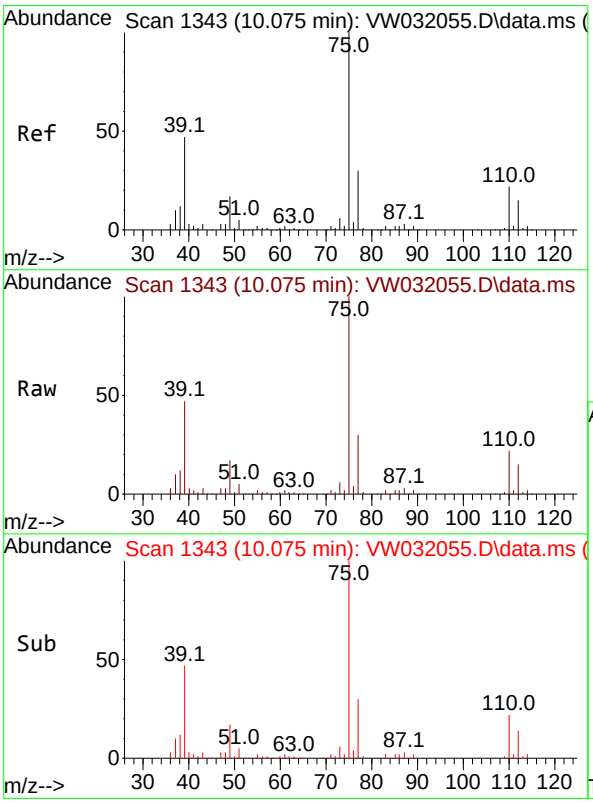

#53
t-1,3-Dichloropropene
Concen: 54.035 ug/l
RT: 10.611 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 75 Resp: 209555

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.3 | 25.0 | 37.6 |

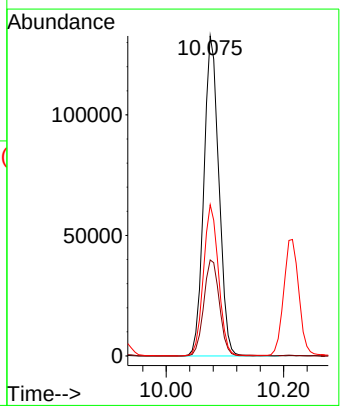


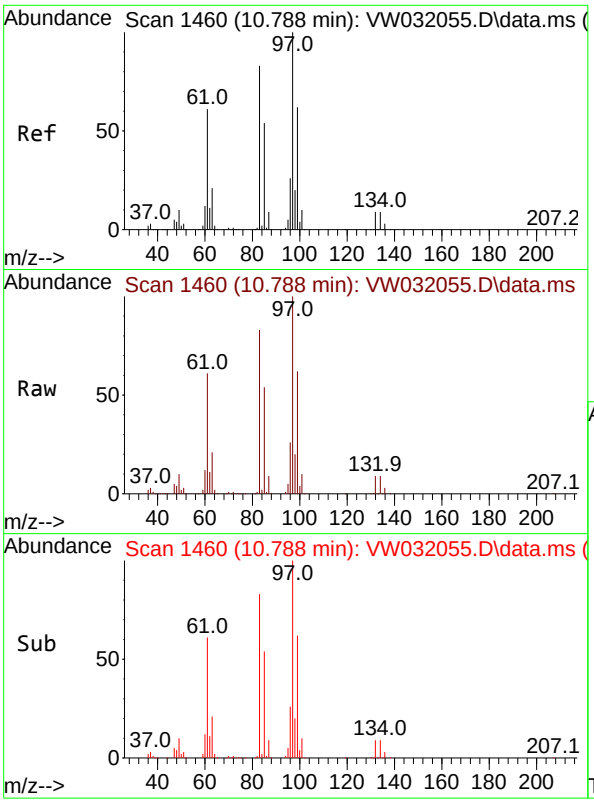




#54
cis-1,3-Dichloropropene
Concen: 53.744 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 75 Resp: 236454

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.0 | 24.0 | 36.0 |
| 39 | 47.3 | 37.8 | 56.8 |



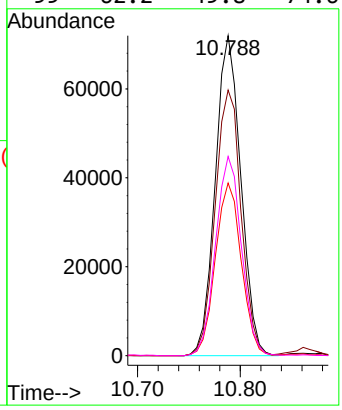


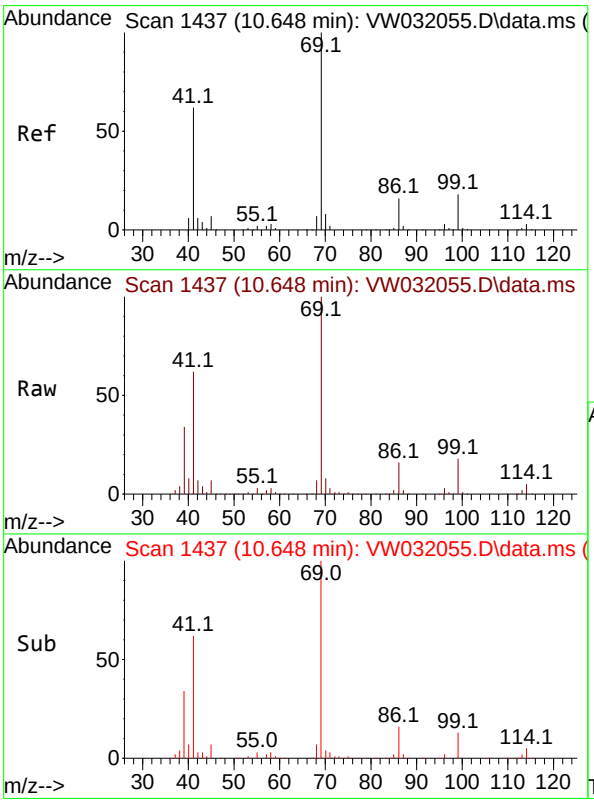

#55
1,1,2-Trichloroethane
Concen: 52.088 ug/l
RT: 10.788 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 97 Resp: 124341

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 83.0 | 66.4 | 99.6 |
| 85 | 53.9 | 43.1 | 64.7 |
| 99 | 62.2 | 49.8 | 74.6 |

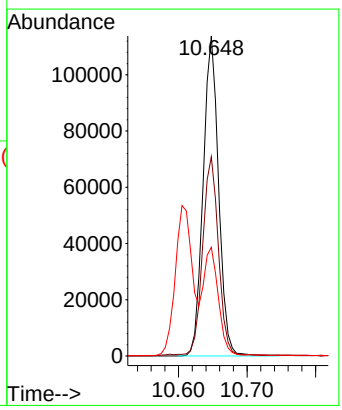


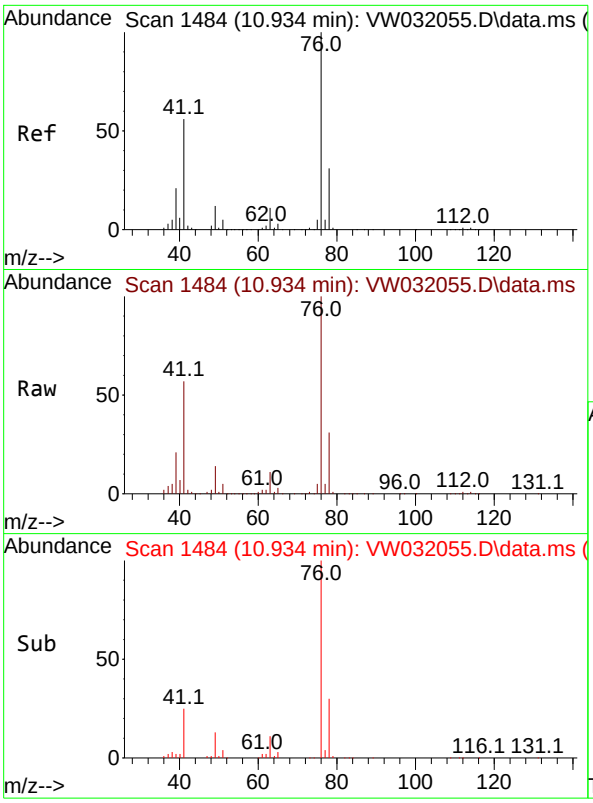




#56
Ethyl methacrylate
Concen: 56.027 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 69 Resp: 178974

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 64.0 | 51.2 | 76.8 |
| 39 | 31.7 | 25.4 | 38.0 |



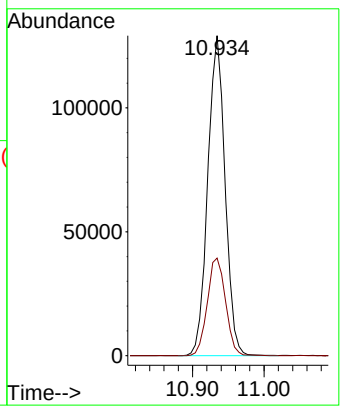


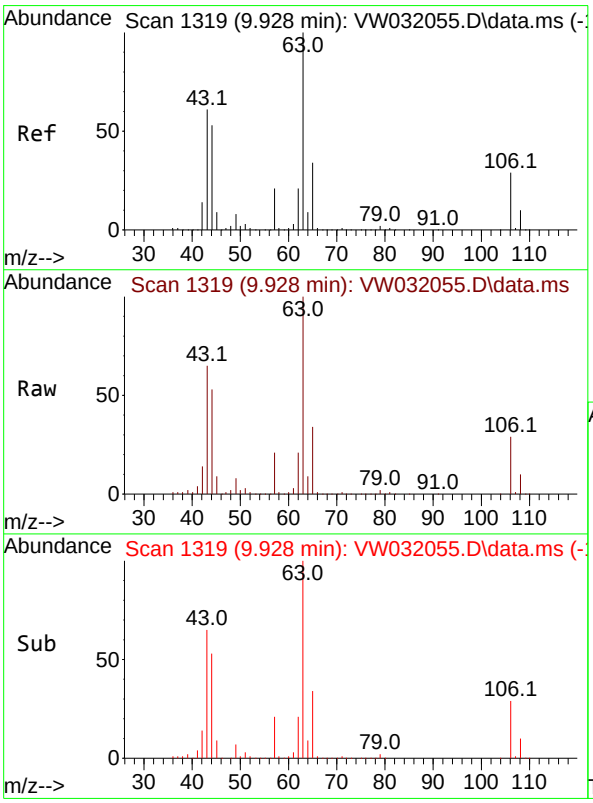

#57
1,3-Dichloropropane
Concen: 52.084 ug/l
RT: 10.934 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 76 Resp: 216719

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.2 | 25.8 | 38.6 |

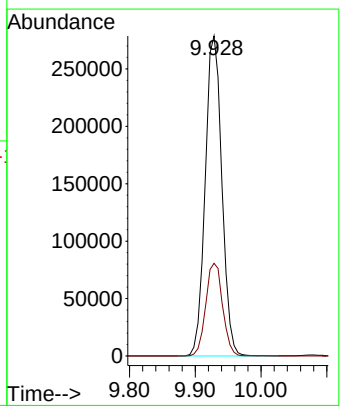


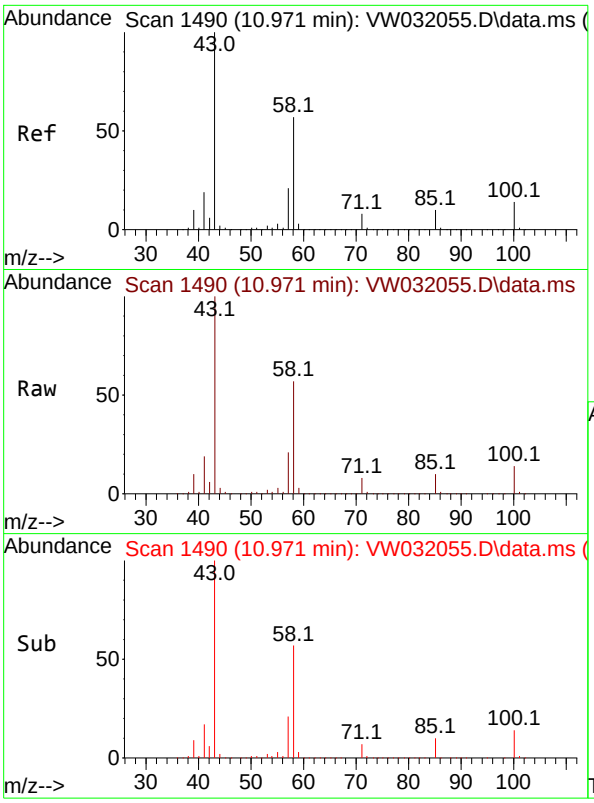




#58
2-Chloroethyl Vinyl ether
Concen: 277.613 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 63 Resp: 490522

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 29.4 | 23.5 | 35.3 |



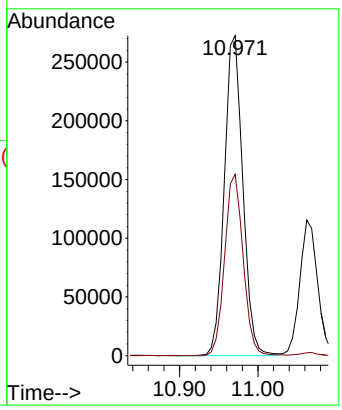


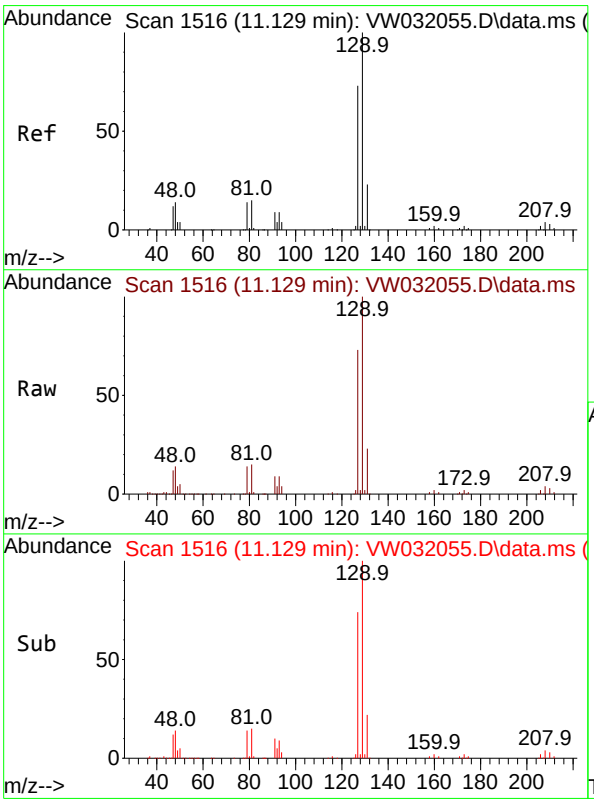

#59
2-Hexanone
Concen: 284.986 ug/l
RT: 10.971 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 43 Resp: 447423

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 56.7 | 28.3 | 85.0 |

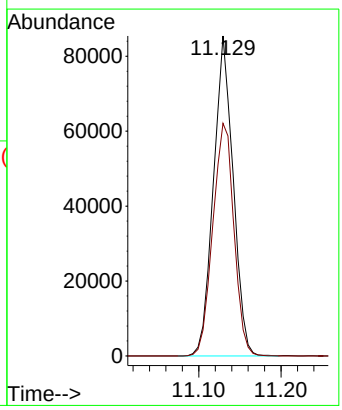


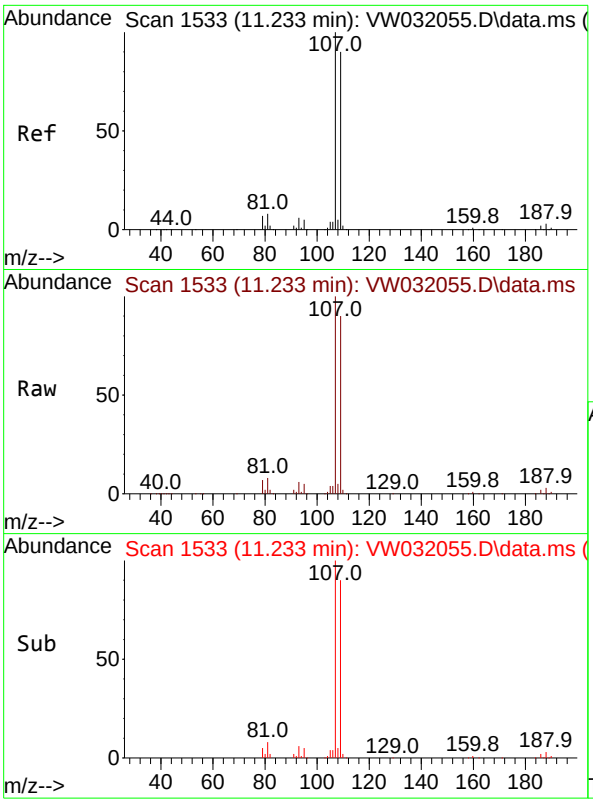




#60
Dibromochloromethane
Concen: 52.161 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:129 Resp: 142234

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.9 | 39.0 | 116.9 |



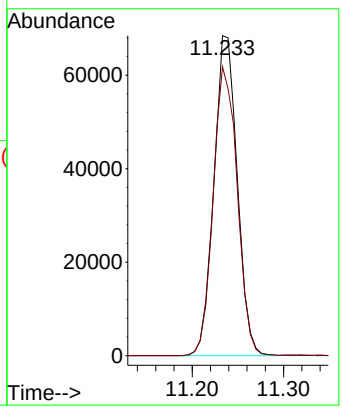


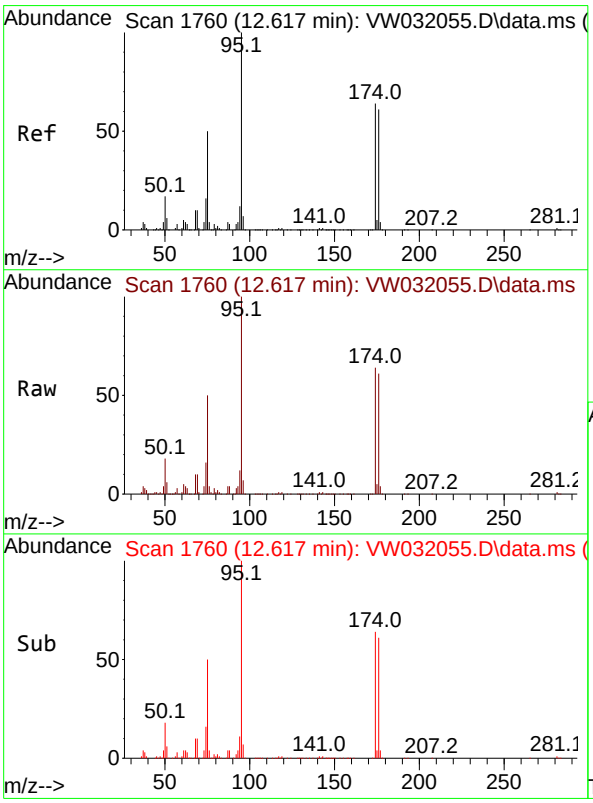

#61
1,2-Dibromoethane
Concen: 52.430 ug/l
RT: 11.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion:107 Resp: 121625

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 92.8 | 74.2 | 111.4 |

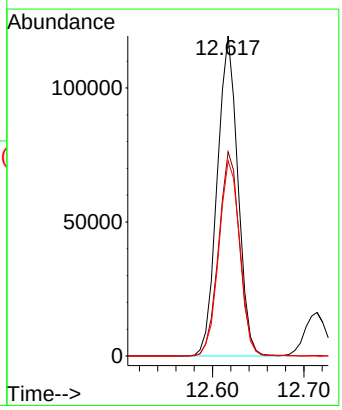


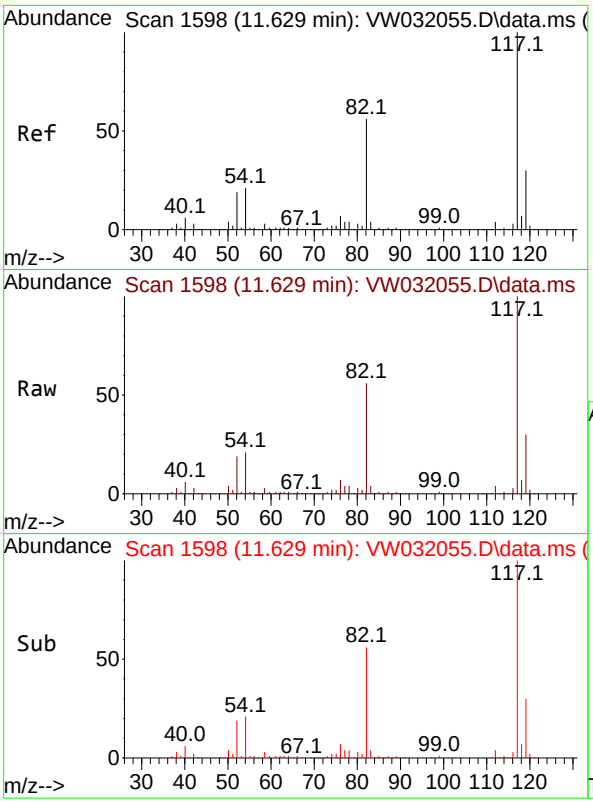




#62
4-Bromofluorobenzene
Concen: 52.274 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 95 Resp: 187331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 64.5 | 0.0 | 129.0 |
| 176 | 62.3 | 0.0 | 124.6 |



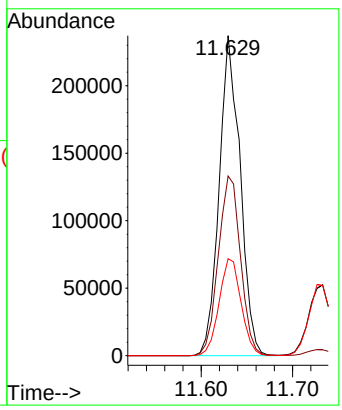


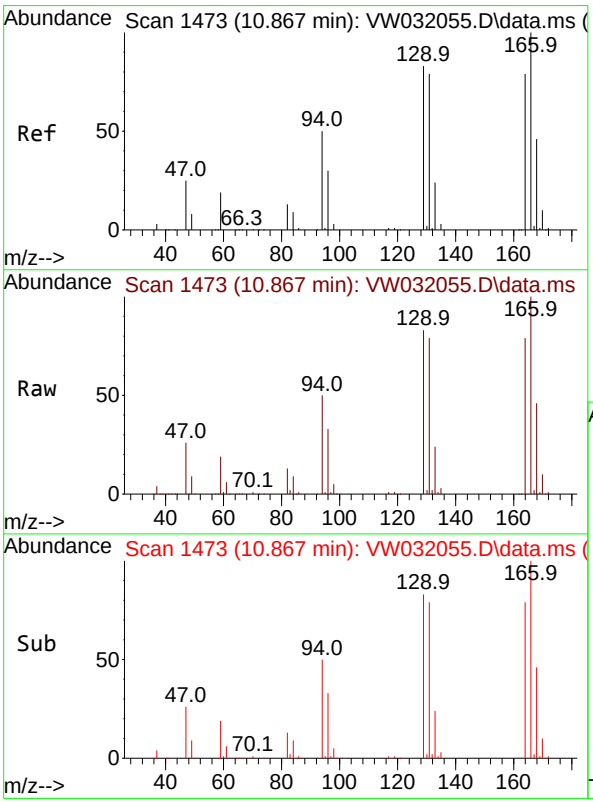

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion:117 Resp: 378090

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 56.2 | 45.0 | 67.4 |
| 119 | 30.3 | 24.2 | 36.4 |

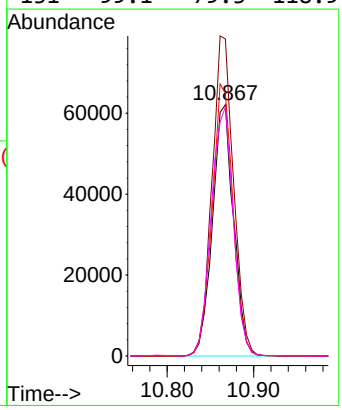


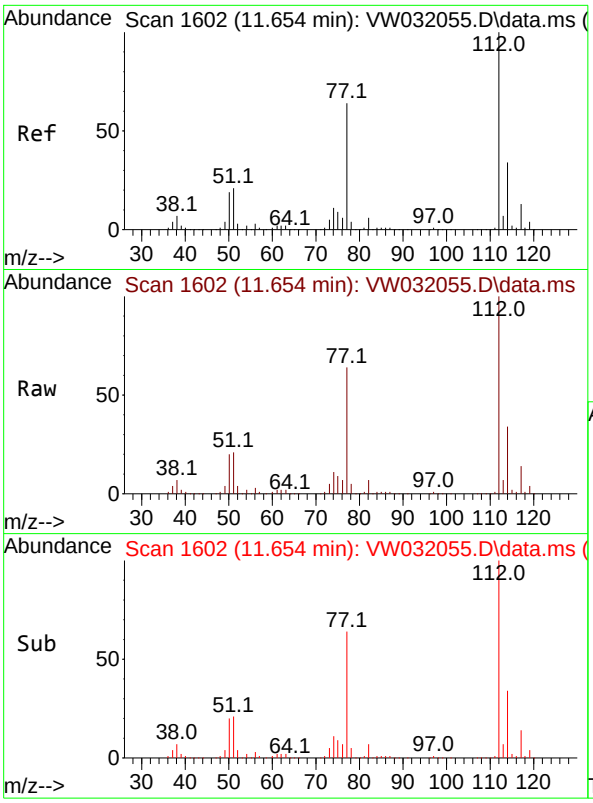




#64
Tetrachloroethene
Concen: 48.263 ug/l
RT: 10.867 min Scan# 1473
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:164 Resp: 105400

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 126.1 | 100.9 | 151.3 |
| 129 | 104.5 | 83.6 | 125.4 |
| 131 | 99.1 | 79.3 | 118.9 |



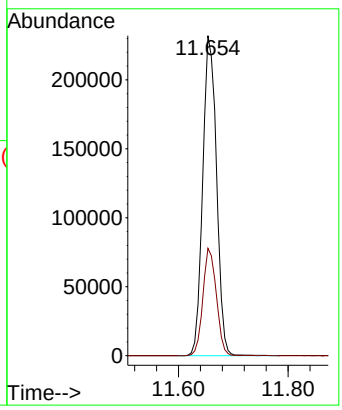


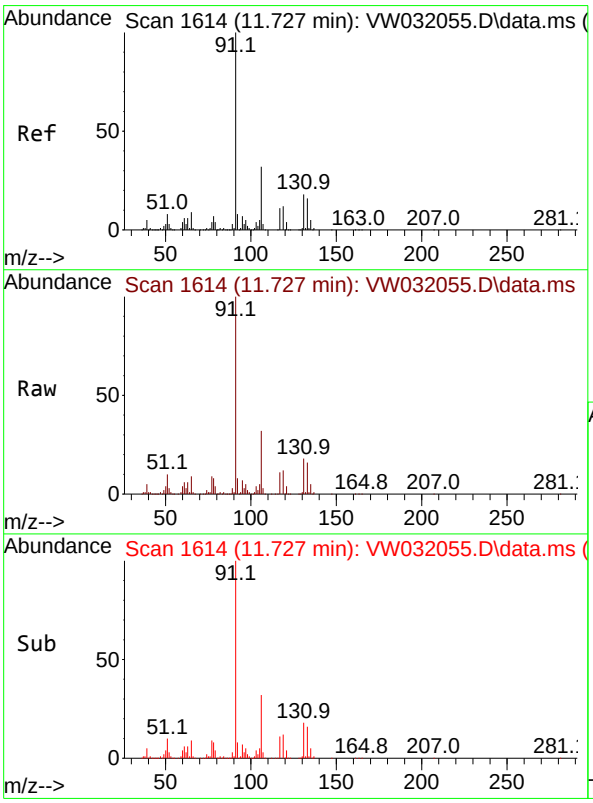

#65
Chlorobenzene
Concen: 49.082 ug/l
RT: 11.654 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion:112 Resp: 403926

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 33.6 | 26.9 | 40.3 |

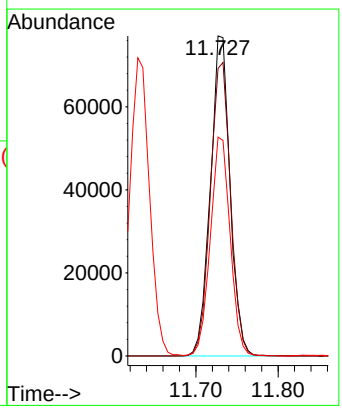


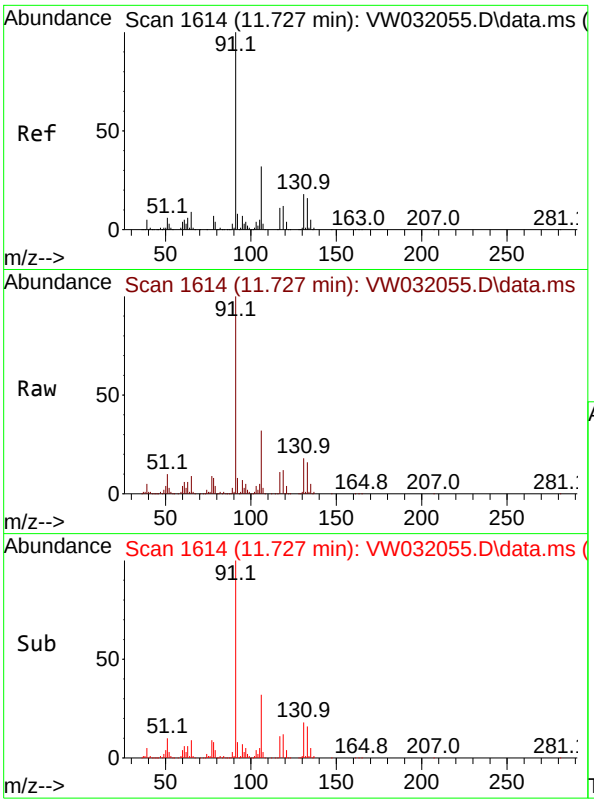




#66
1,1,1,2-Tetrachloroethane
Concen: 49.935 ug/l
RT: 11.727 min Scan# 1614
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:131 Resp: 128215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.7 | 47.3 | 142.0 |
| 119 | 69.0 | 34.5 | 103.5 |



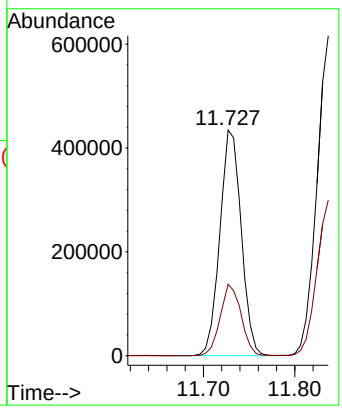


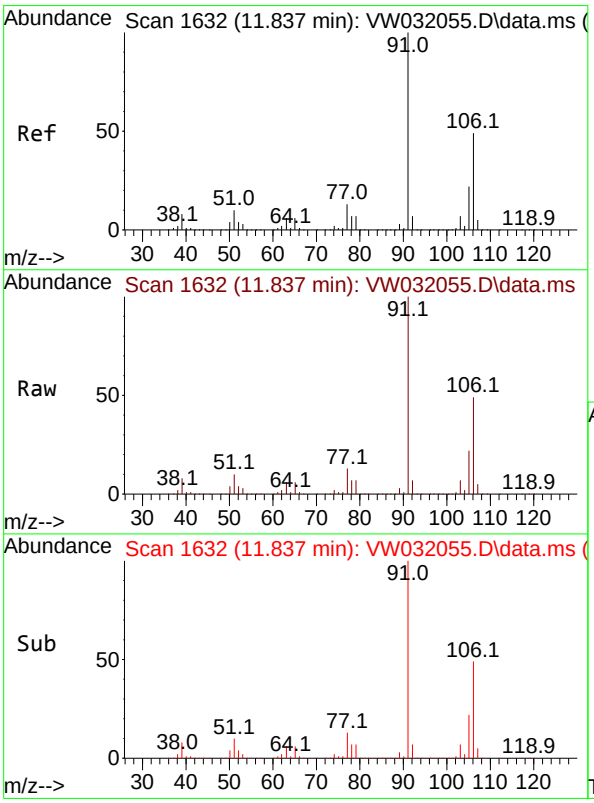

#67
Ethyl Benzene
Concen: 50.709 ug/l
RT: 11.727 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 91 Resp: 706877

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.7 | 25.4 | 38.0 |

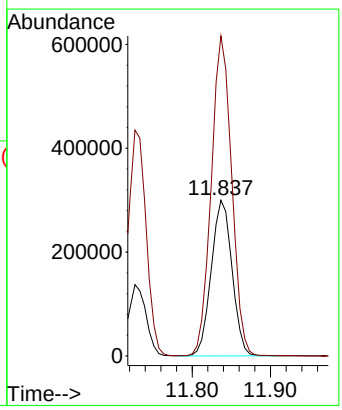


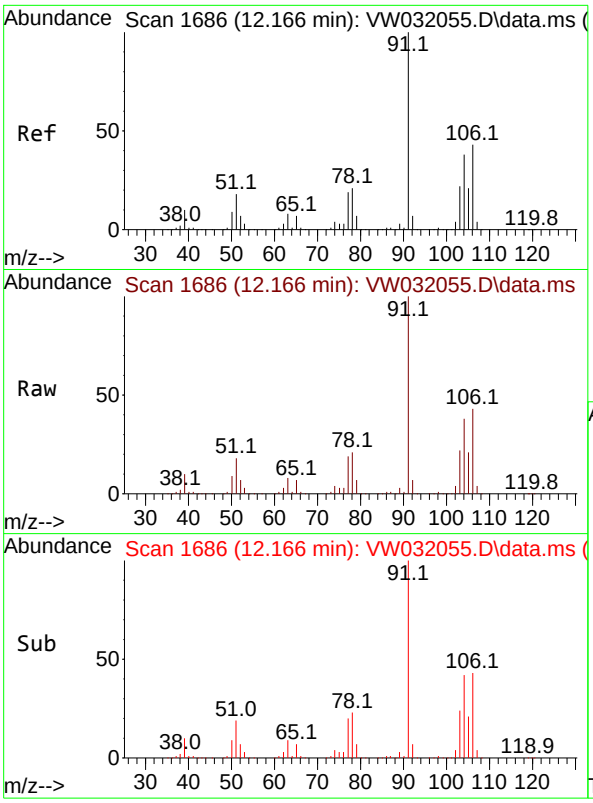




#68
m/p-Xylenes
Concen: 102.704 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:106 Resp: 552442

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 202.7 | 162.2 | 243.2 |



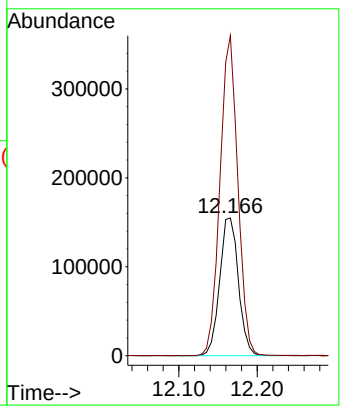


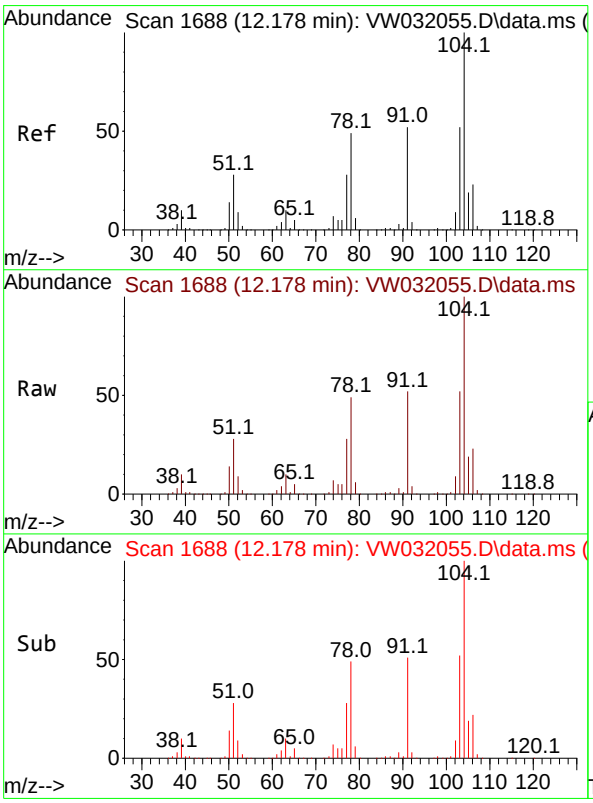

#69
o-Xylene
Concen: 51.812 ug/l
RT: 12.166 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion:106 Resp: 257591

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 221.5 | 110.8 | 332.3 |

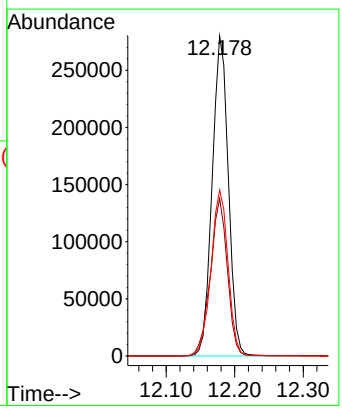


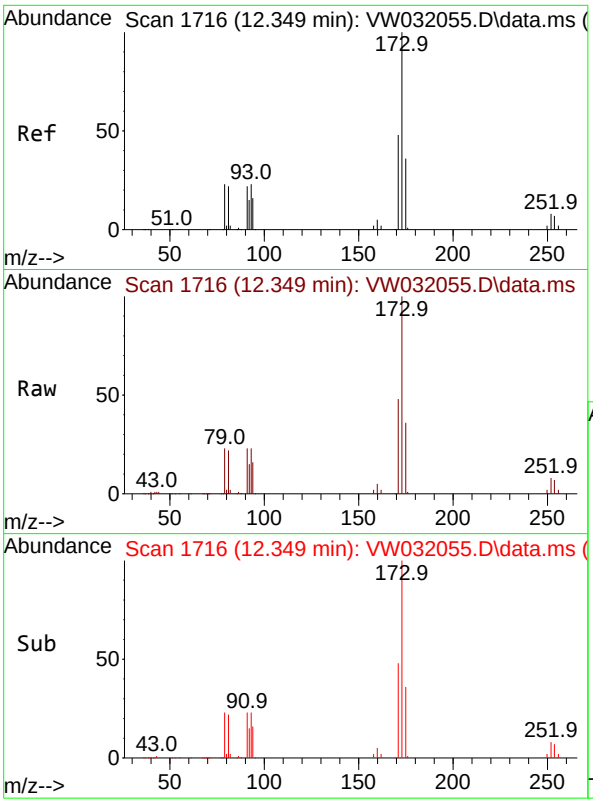




#70
Styrene
Concen: 51.858 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:104 Resp: 457949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 51.5 | 41.2 | 61.8 |
| 103 | 54.8 | 43.8 | 65.8 |



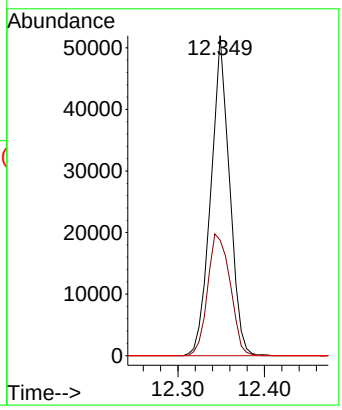


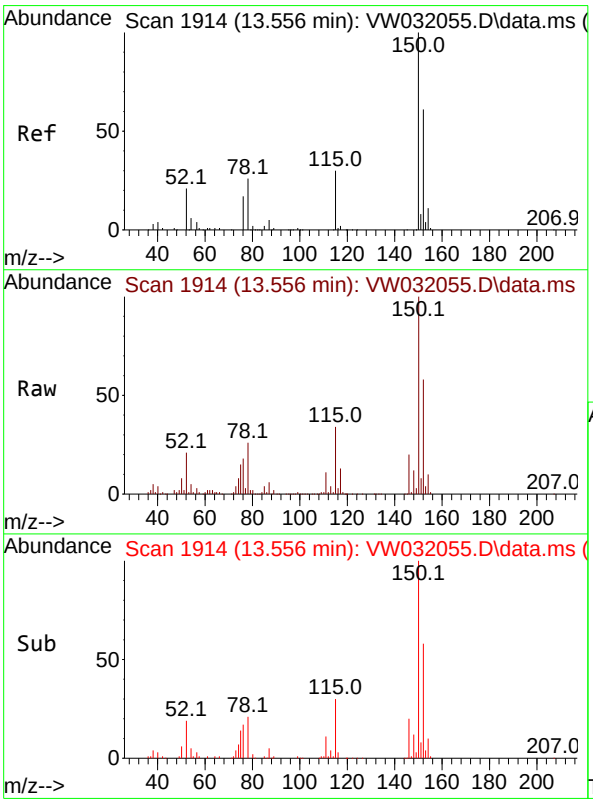

#71
Bromoform
Concen: 53.078 ug/l
RT: 12.349 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion:173 Resp: 77959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 45.8 | 22.9 | 68.7 |
| 254 | 0.0 | 0.0 | 0.0 |

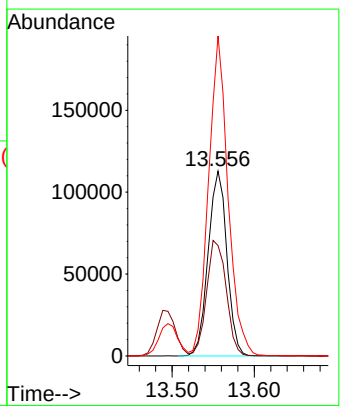


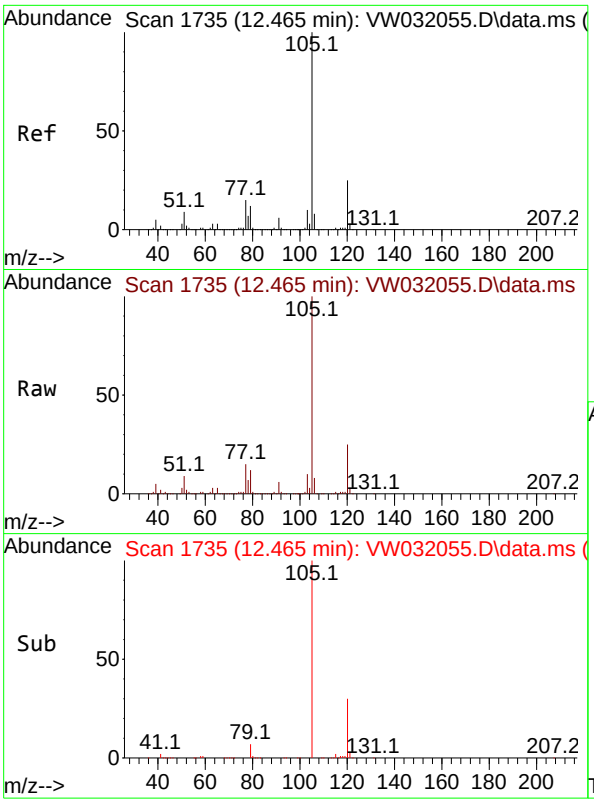




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:152 Resp: 178995

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 65.2 | 32.6 | 97.8 |
| 150 | 179.7 | 0.0 | 359.4 |



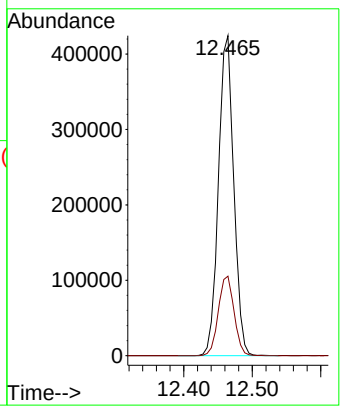


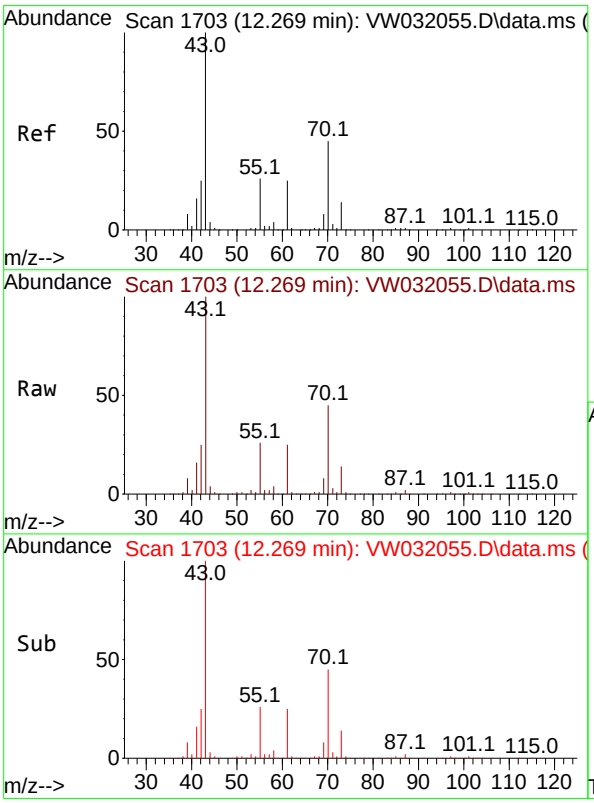

#73
Isopropylbenzene
Concen: 52.323 ug/l
RT: 12.465 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion:105 Resp: 654522

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.6 | 12.8 | 38.4 |

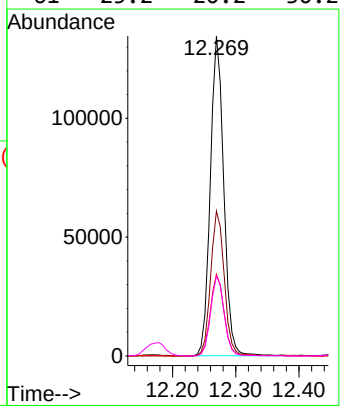


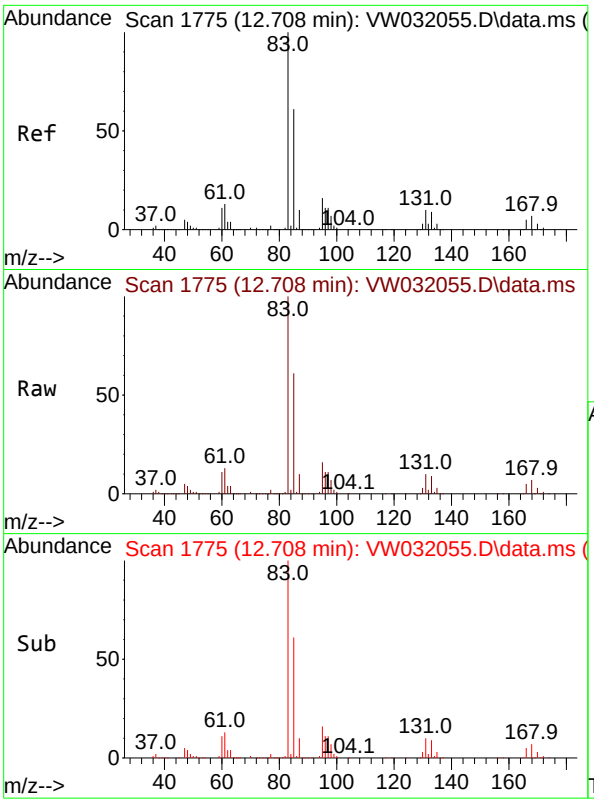




#74
N-amyl acetate
Concen: 55.520 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 43 Resp: 199256

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 46.2 | 37.0 | 55.4 |
| 55 | 26.4 | 21.1 | 31.7 |
| 61 | 25.2 | 20.2 | 30.2 |



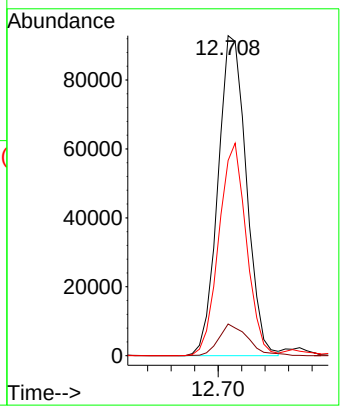


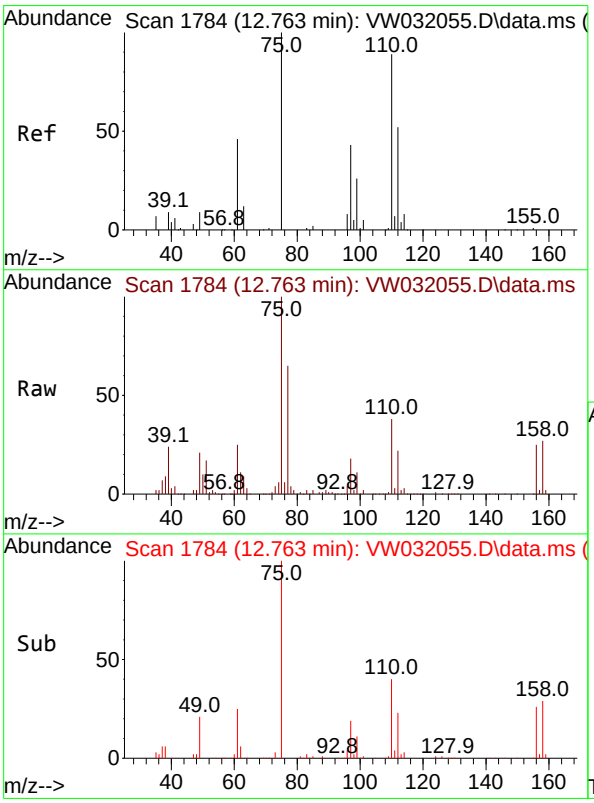

#75
1,1,2,2-Tetrachloroethane
Concen: 52.549 ug/l
RT: 12.708 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 83 Resp: 156076

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.3 | 5.1 | 15.4 |
| 85 | 64.4 | 32.2 | 96.6 |

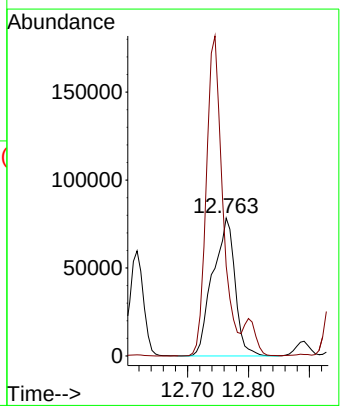


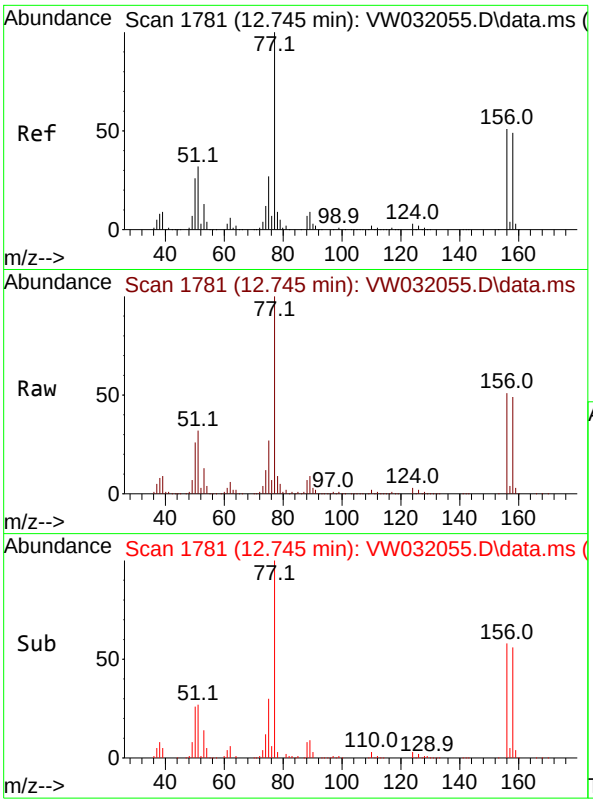




#76
1,2,3-Trichloropropane
Concen: 72.113 ug/l
RT: 12.763 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 75 Resp: 198427

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 171.4 | 123.5 | 370.5 |



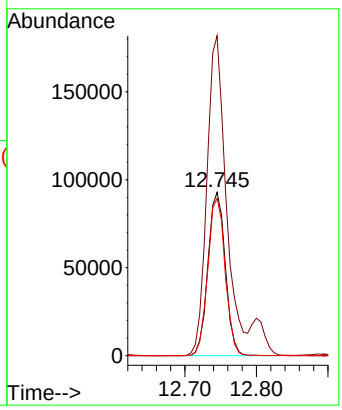


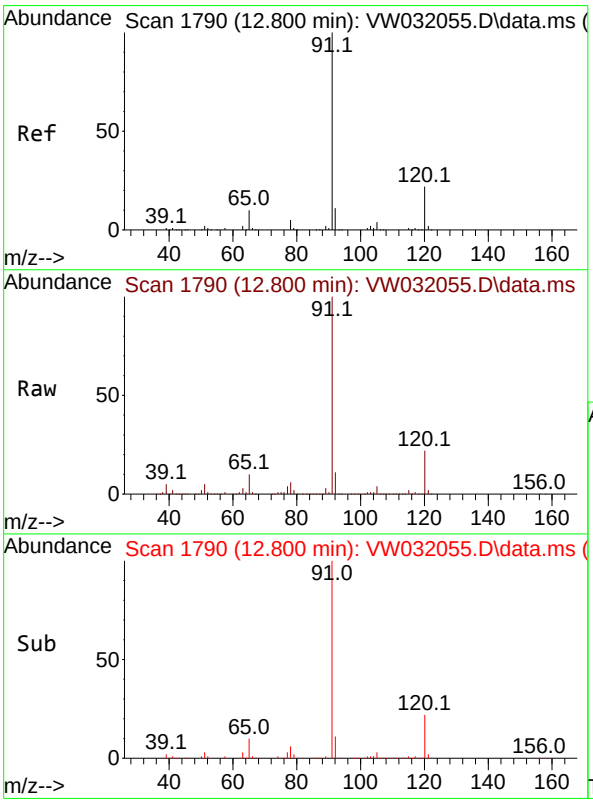

#77
Bromobenzene
Concen: 52.326 ug/l
RT: 12.745 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion:156 Resp: 156335

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 217.5 | 108.7 | 326.3 |
| 158 | 96.6 | 48.3 | 144.9 |

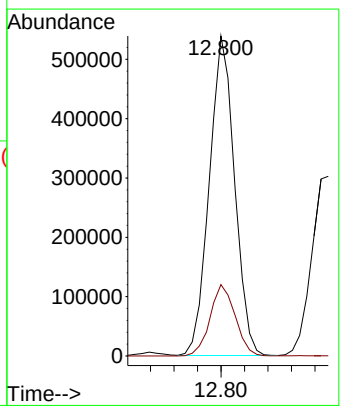


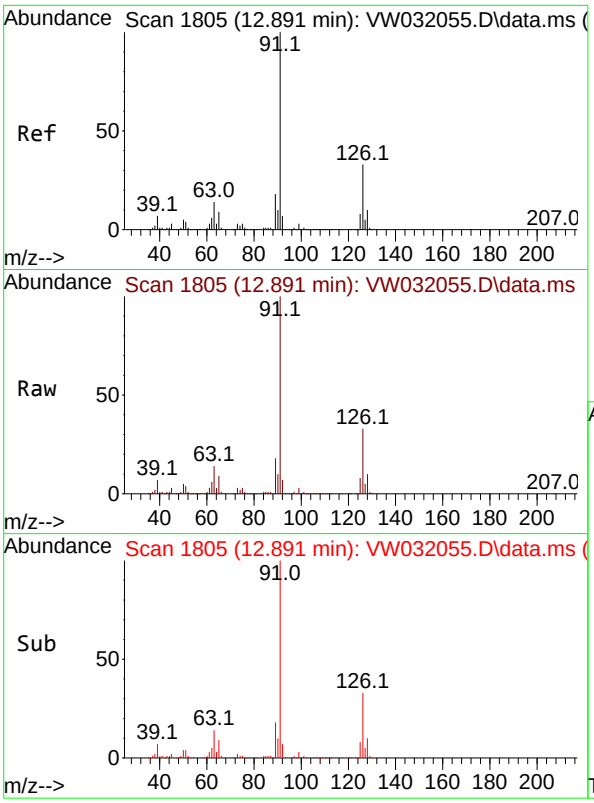




#78
n-propylbenzene
Concen: 52.304 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 91 Resp: 805515

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.2 | 11.1 | 33.3 |



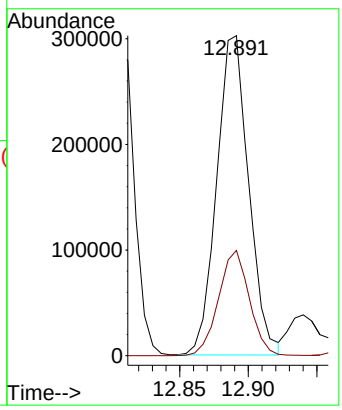


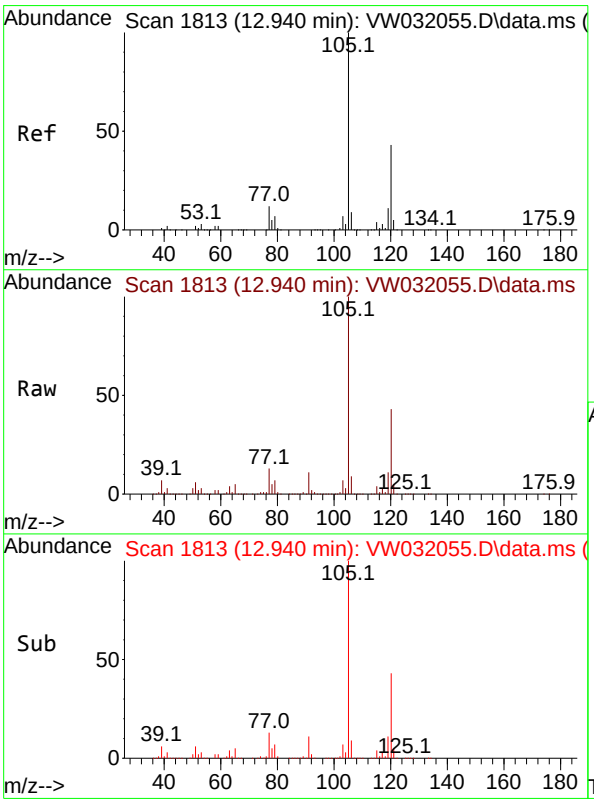

#79
2-Chlorotoluene
Concen: 51.622 ug/l
RT: 12.891 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 91 Resp: 490665

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.8 | 15.9 | 47.7 |

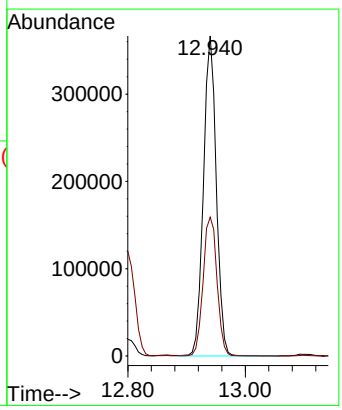


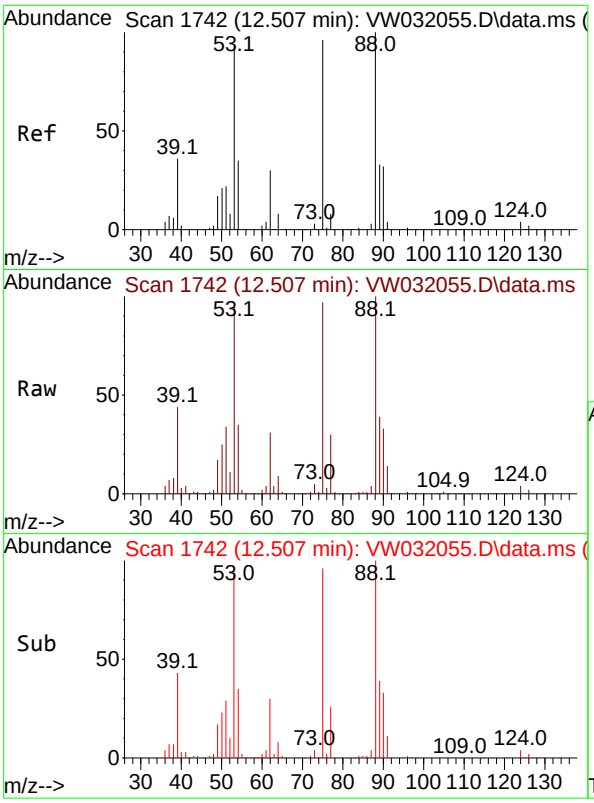




#80
1,3,5-Trimethylbenzene
Concen: 52.305 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:105 Resp: 555481

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.7 | 23.4 | 70.0 |



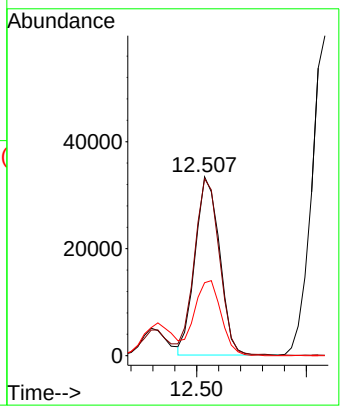


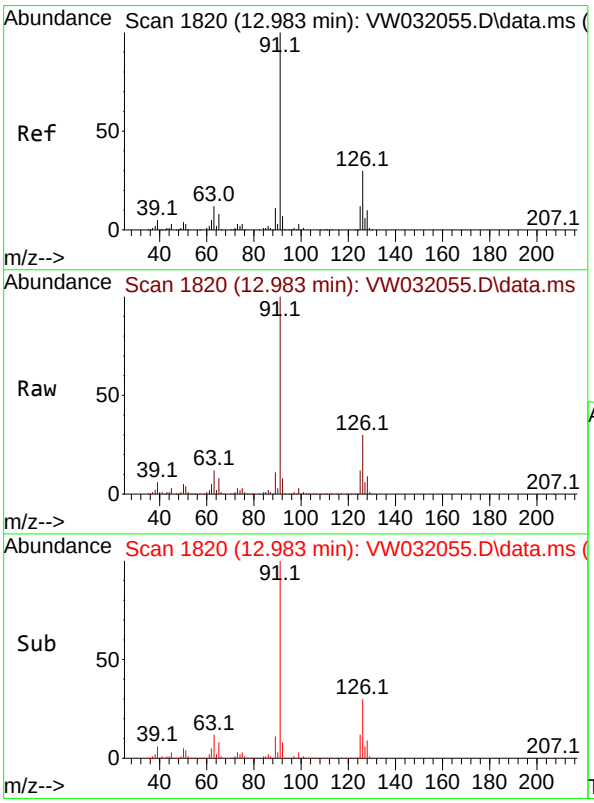

#81
trans-1,4-Dichloro-2-butene
Concen: 55.213 ug/l
RT: 12.507 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 75 Resp: 51811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 101.3 | 81.0 | 121.6 |
| 89 | 46.6 | 37.3 | 55.9 |

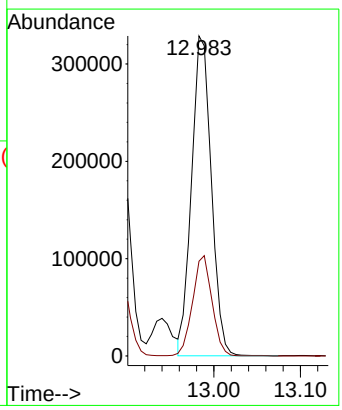


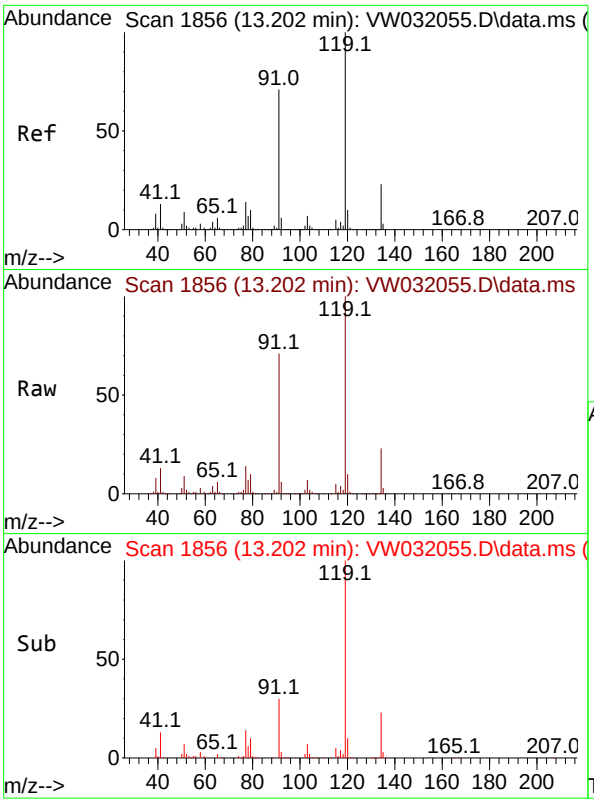




#82
4-Chlorotoluene
Concen: 51.488 ug/l
RT: 12.983 min Scan# 1820
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 91 Resp: 519957

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.0 | 15.5 | 46.5 |



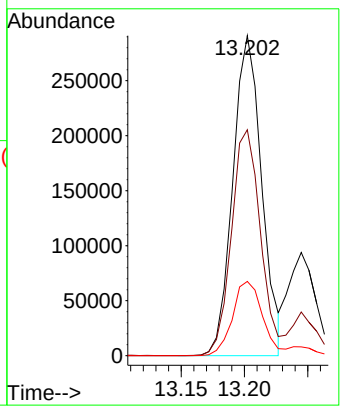


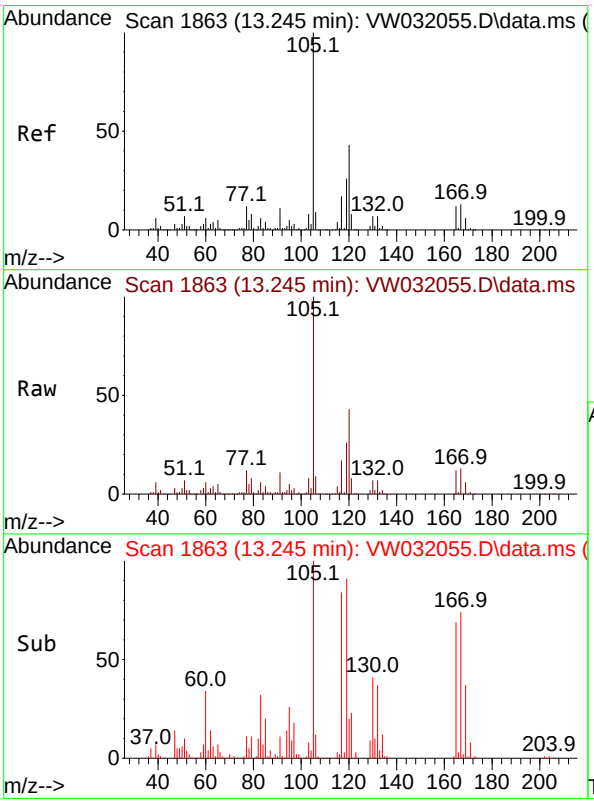

#83
tert-Butylbenzene
Concen: 52.460 ug/l
RT: 13.202 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion:119 Resp: 462373

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 70.6 | 35.3 | 105.9 |
| 134 | 24.2 | 12.1 | 36.3 |

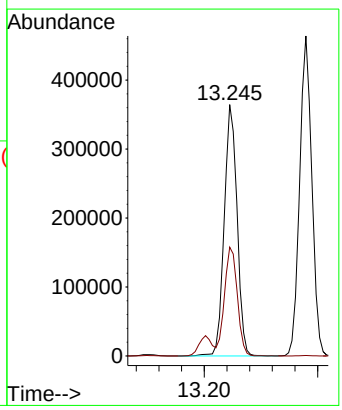


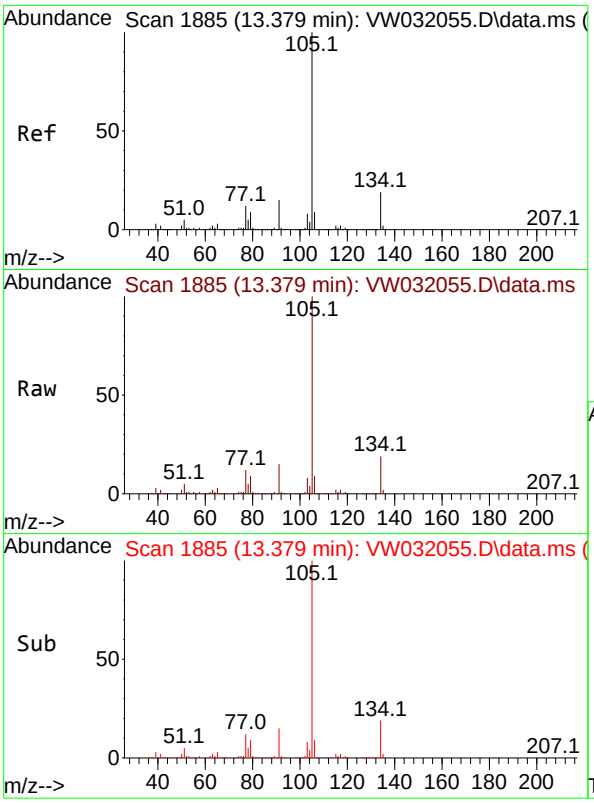




#84
1,2,4-Trimethylbenzene
Concen: 52.950 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:105 Resp: 572429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.2 | 21.6 | 64.8 |



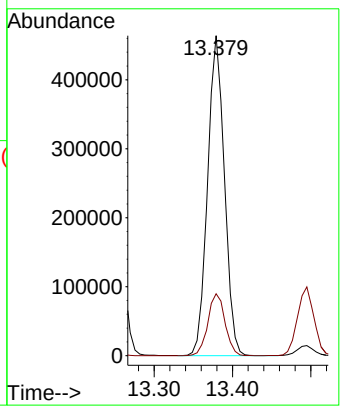


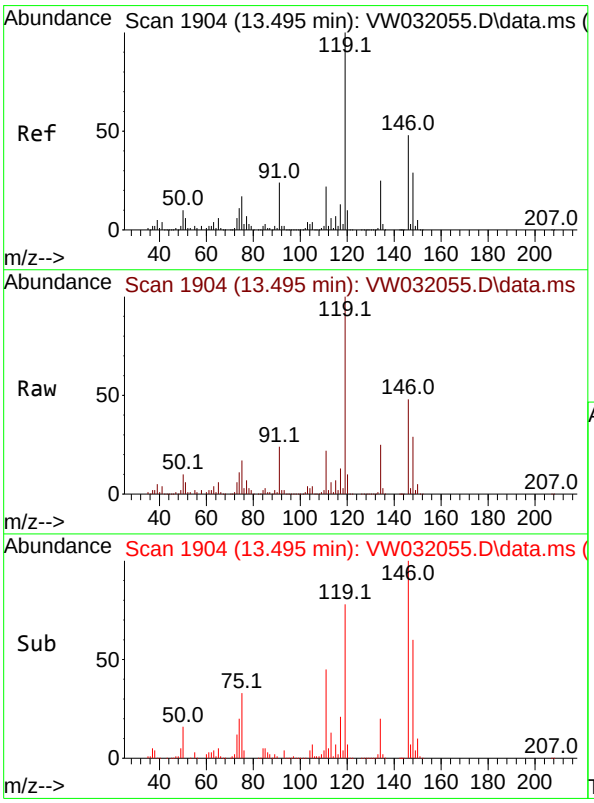

#85
sec-Butylbenzene
Concen: 51.829 ug/l
RT: 13.379 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion:105 Resp: 690647

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.8 | 9.9 | 29.7 |

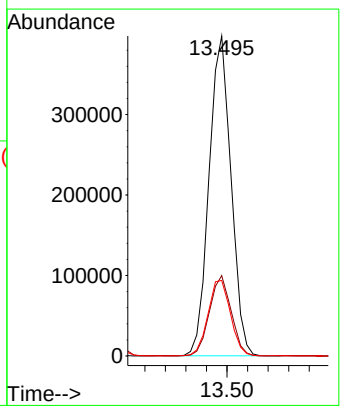


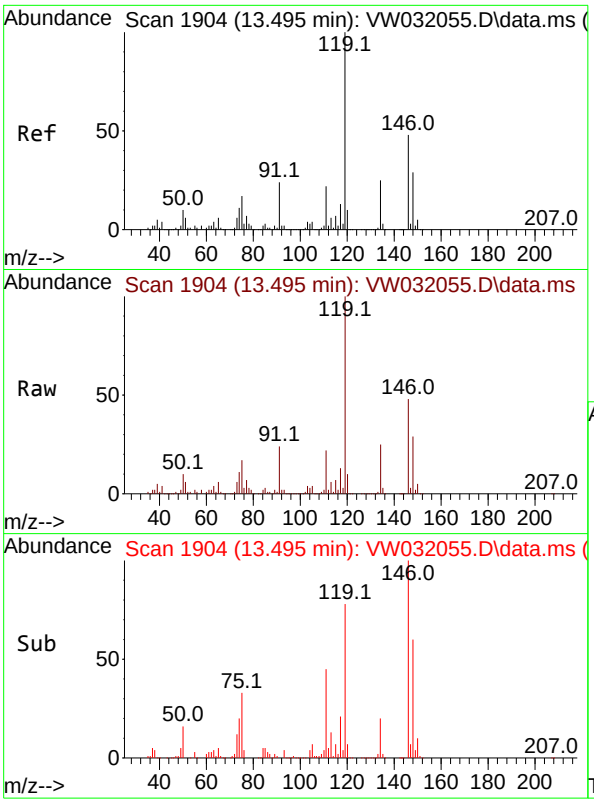




#86
p-Isopropyltoluene
Concen: 53.089 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:119 Resp: 589769

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 24.7 | 12.4 | 37.0 |
| 91 | 24.2 | 12.1 | 36.3 |



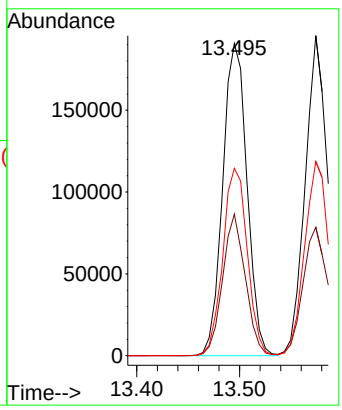


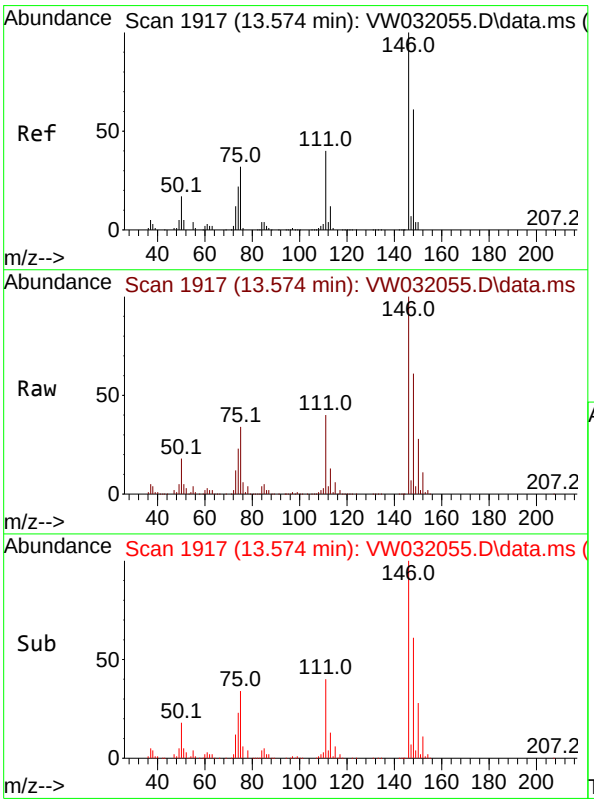

#87
1,3-Dichlorobenzene
Concen: 52.754 ug/l
RT: 13.495 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion:146 Resp: 313624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.4 | 21.2 | 63.6 |
| 148 | 60.5 | 30.3 | 90.8 |

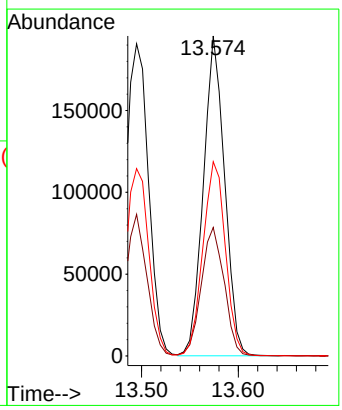


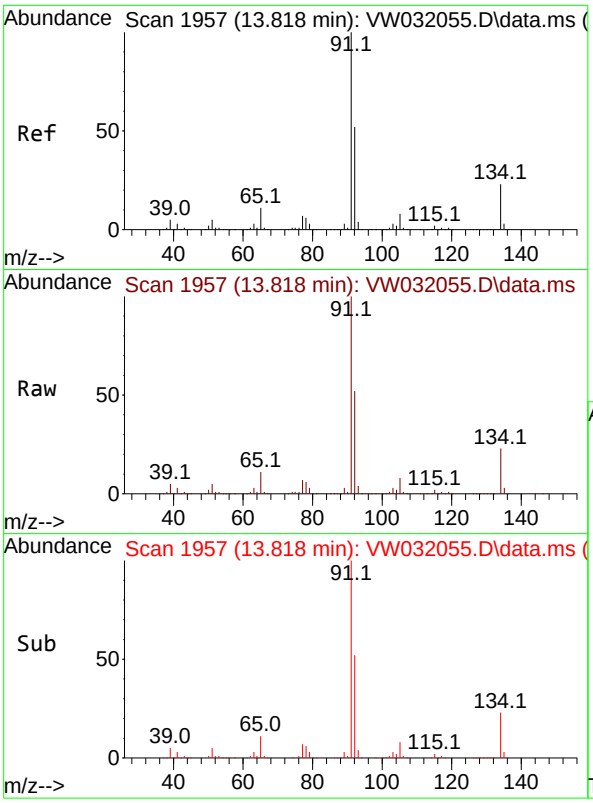




#88
1,4-Dichlorobenzene
Concen: 49.844 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:146 Resp: 299453

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.1 | 21.6 | 64.6 |
| 148 | 64.1 | 32.0 | 96.2 |



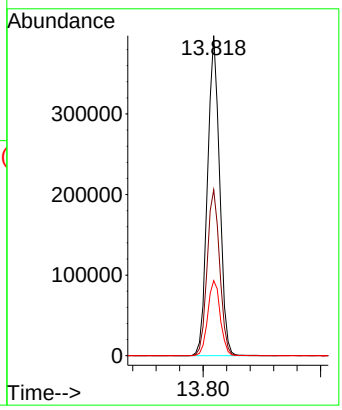


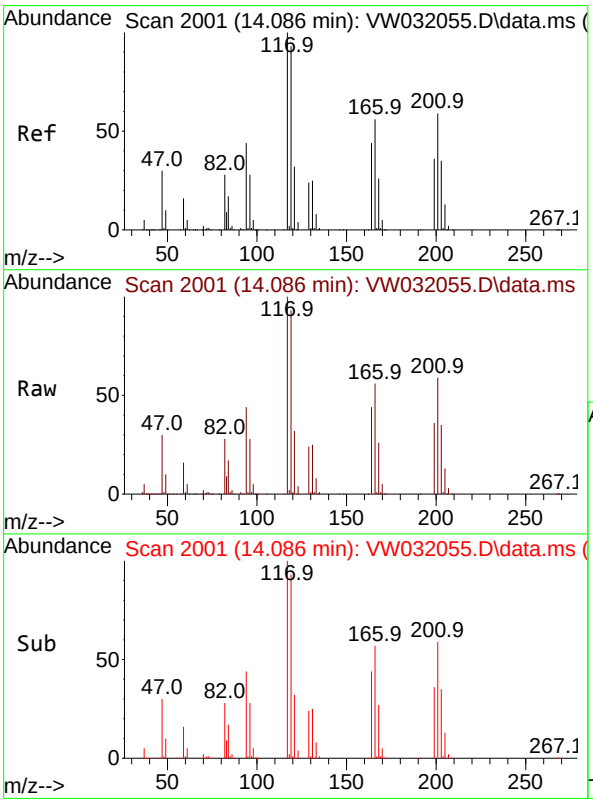

#89
n-Butylbenzene
Concen: 52.756 ug/l
RT: 13.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 91 Resp: 569364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.4 | 26.7 | 80.1 |
| 134 | 24.1 | 12.0 | 36.1 |

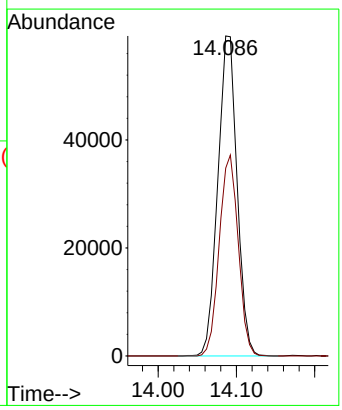


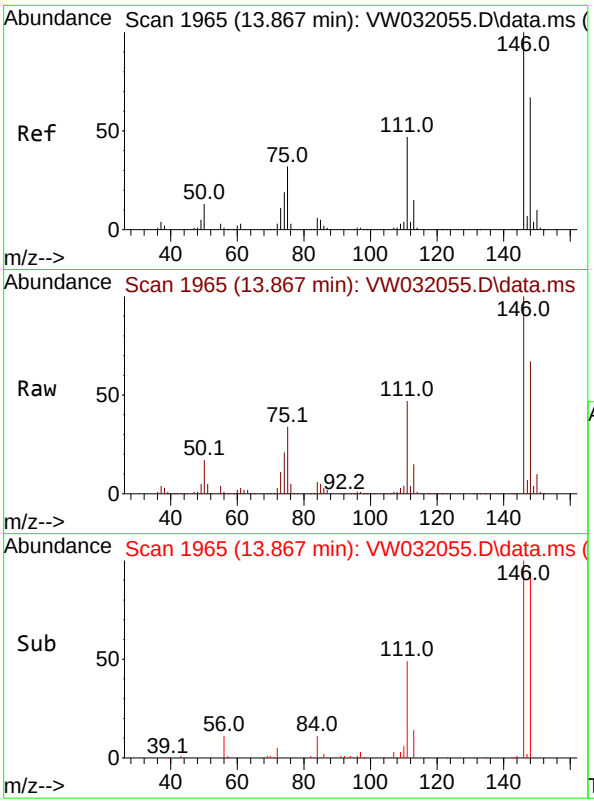




#90
Hexachloroethane
Concen: 49.942 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:117 Resp: 101464

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 61.7 | 30.9 | 92.5 |



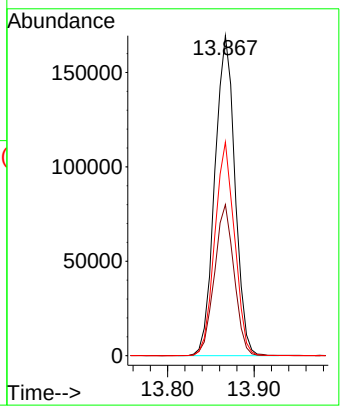


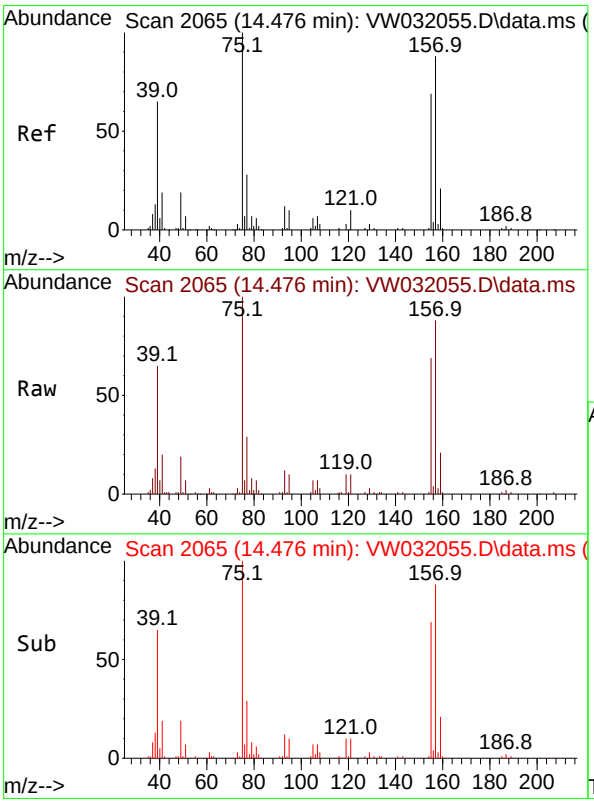

#91
1,2-Dichlorobenzene
Concen: 50.801 ug/l
RT: 13.867 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion:146 Resp: 273581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 46.2 | 23.1 | 69.3 |
| 148 | 65.7 | 32.9 | 98.6 |

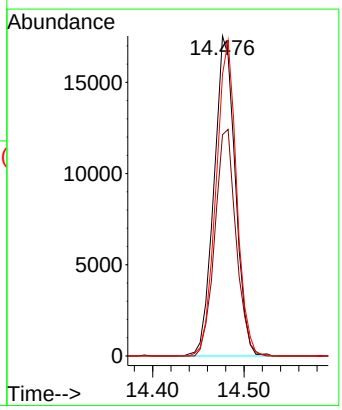


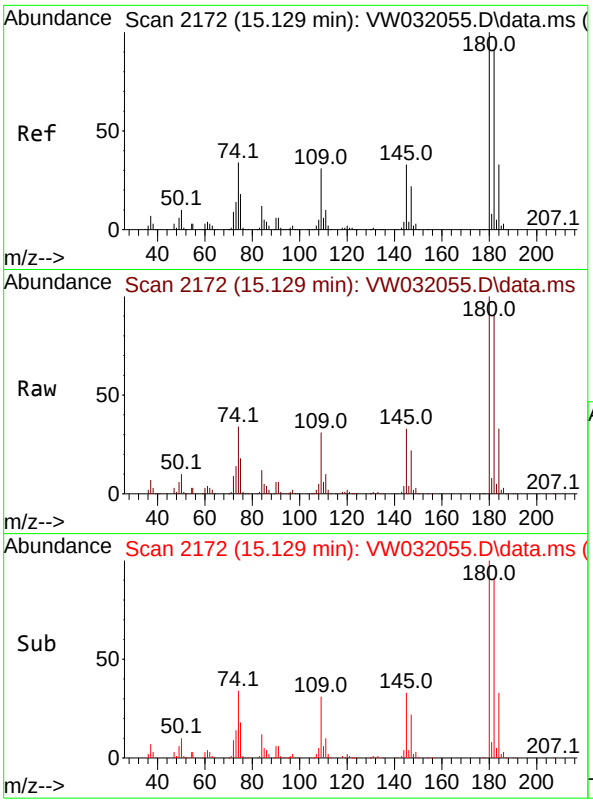




#92
1,2-Dibromo-3-Chloropropane
Concen: 53.857 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion: 75 Resp: 28437

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 70.4 | 35.2 | 105.6 |
| 157 | 95.1 | 47.5 | 142.6 |



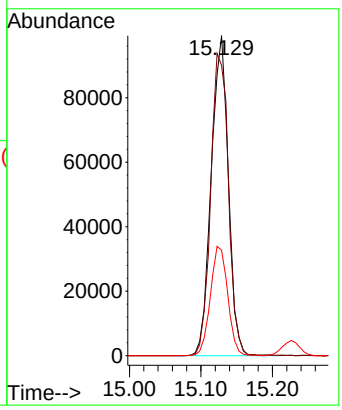


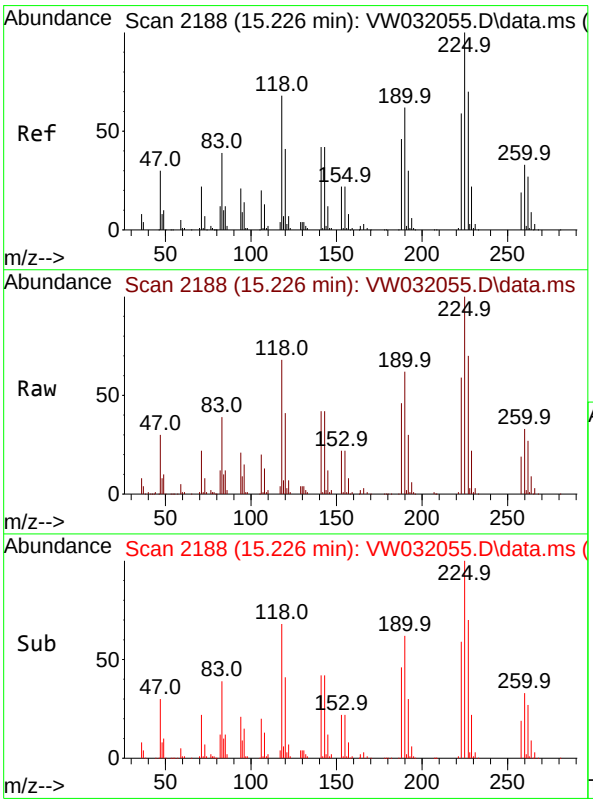

#93
1,2,4-Trichlorobenzene
Concen: 51.132 ug/l
RT: 15.129 min Scan# 21
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion:180 Resp: 164726

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 98.0 | 49.0 | 147.0 |
| 145 | 34.6 | 17.3 | 51.9 |

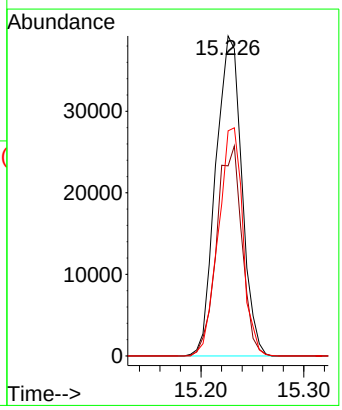


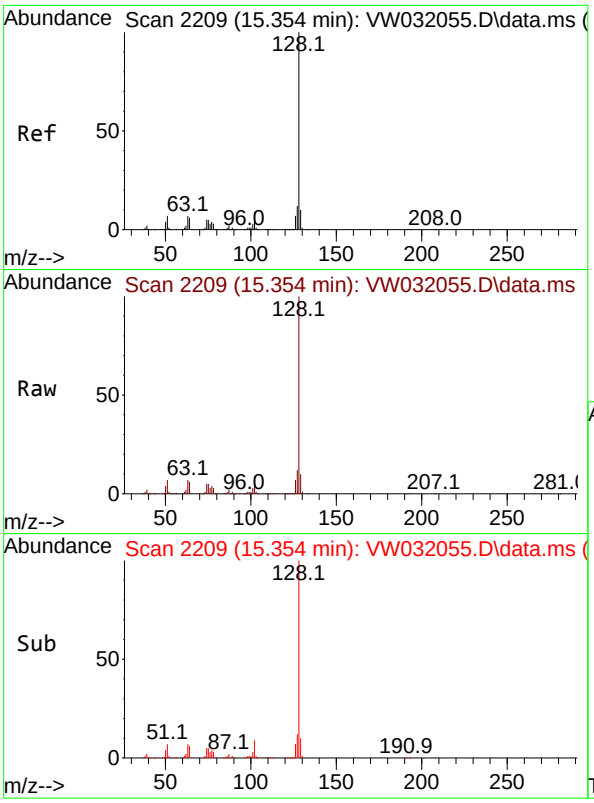




#94
Hexachlorobutadiene
Concen: 47.902 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:225 Resp: 68983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.5 | 31.8 | 95.3 |
| 227 | 67.0 | 33.5 | 100.5 |



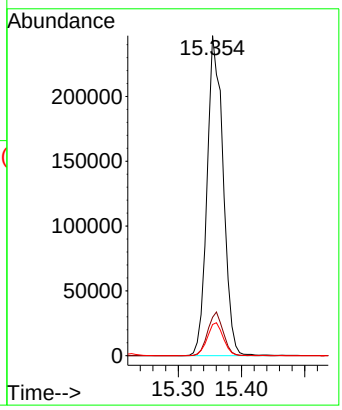


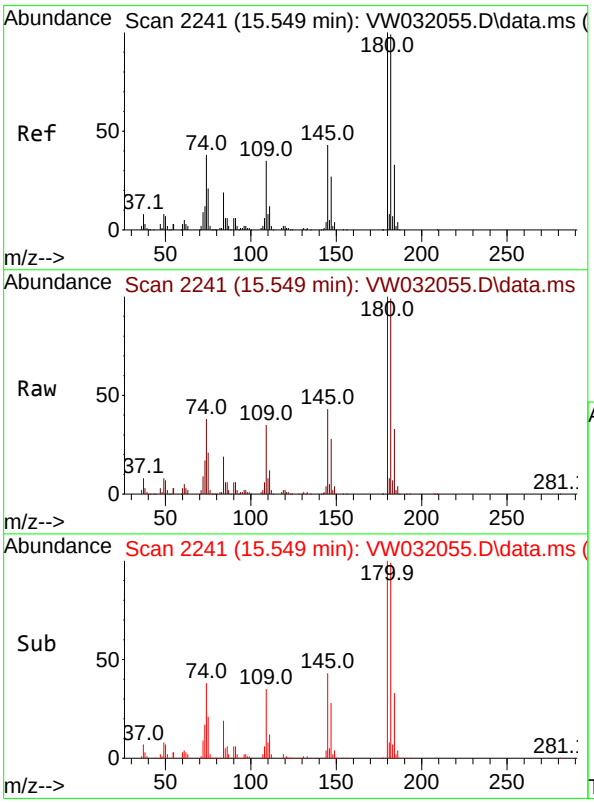

#95
Naphthalene
Concen: 55.099 ug/l
RT: 15.354 min Scan# 2
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICCC050

Tgt Ion:128 Resp: 434944

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.1 | 10.5 | 15.7 |
| 129 | 10.3 | 8.2 | 12.4 |

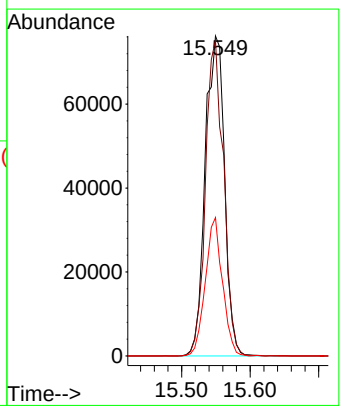



#96
1,2,3-Trichlorobenzene
Concen: 51.022 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. 0.000 min
Lab File: VW032055.D
Acq: 11 Aug 2025 10:09

Tgt Ion:180 Resp: 149556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 92.0 | 46.0 | 138.0 |
| 145 | 38.4 | 19.2 | 57.6 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032056.D
Acq On : 11 Aug 2025 10:46
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Quant Time: Aug 12 03:39:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.965 | 168 | 221384 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.849 | 114 | 424901 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.629 | 117 | 387705 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.556 | 152 | 180763 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.313 | 65 | 315411 | 98.509 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 63 - 155 | | Recovery = 197.020%# | | | |
| 35) Dibromofluoromethane | 7.898 | 113 | 266117 | 96.945 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 70 - 134 | | Recovery = 193.900%# | | | |
| 50) Toluene-d8 | 10.325 | 98 | 1005940 | 99.078 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 123 | | Recovery = 198.160%# | | | |
| 62) 4-Bromofluorobenzene | 12.617 | 95 | 372416 | 99.536 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 17 - 146 | | Recovery = 199.080%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.040 | 85 | 140330 | 88.627 | ug/l | 100 |
| 3) Chloromethane | 2.253 | 50 | 200261 | 93.894 | ug/l | 99 |
| 4) Vinyl Chloride | 2.405 | 62 | 239040 | 92.654 | ug/l | 94 |
| 5) Bromomethane | 2.820 | 94 | 182687 | 94.386 | ug/l | 96 |
| 6) Chloroethane | 2.966 | 64 | 164961 | 96.628 | ug/l | 98 |
| 7) Trichlorofluoromethane | 3.295 | 101 | 182663 | 88.382 | ug/l | 96 |
| 8) Diethyl Ether | 3.716 | 74 | 164632 | 97.227 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 4.100 | 101 | 224293 | 91.988 | ug/l | 100 |
| 10) Methyl Iodide | 4.301 | 142 | 336162 | 97.237 | ug/l | 99 |
| 11) Tert butyl alcohol | 5.216 | 59 | 99671 | 480.735 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 4.070 | 96 | 251341 | 93.615 | ug/l | 92 |
| 13) Acrolein | 3.923 | 56 | 148403 | 449.230 | ug/l | 100 |
| 14) Allyl chloride | 4.698 | 41 | 385062 | 98.543 | ug/l | 99 |
| 15) Acrylonitrile | 5.393 | 53 | 388290 | 481.445 | ug/l | 99 |
| 16) Acetone | 4.155 | 43 | 328664 | 443.358 | ug/l | 100 |
| 17) Carbon Disulfide | 4.417 | 76 | 693616 | 96.248 | ug/l | 97 |
| 18) Methyl Acetate | 4.704 | 43 | 218695 | 93.230 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 5.460 | 73 | 473924 | 100.184 | ug/l | 99 |
| 20) Methylene Chloride | 4.954 | 84 | 285049 | 83.165 | ug/l | 98 |
| 21) trans-1,2-Dichloroethene | 5.454 | 96 | 281466 | 98.787 | ug/l | 98 |
| 22) Diisopropyl ether | 6.332 | 45 | 829703 | 100.722 | ug/l | 98 |
| 23) Vinyl Acetate | 6.277 | 43 | 2803250 | 518.312 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 6.240 | 63 | 519360 | 98.678 | ug/l | 99 |
| 25) 2-Butanone | 7.191 | 43 | 515739 | 489.508 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 7.185 | 77 | 249271 | 94.405 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 7.185 | 96 | 343091 | 103.016 | ug/l | 97 |
| 28) Bromochloromethane | 7.526 | 49 | 230727 | 96.333 | ug/l | 100 |
| 29) Tetrahydrofuran | 7.551 | 42 | 338578 | 487.284 | ug/l | 99 |
| 30) Chloroform | 7.685 | 83 | 550232 | 98.613 | ug/l | 96 |
| 31) Cyclohexane | 7.965 | 56 | 416558 | 91.292 | ug/l | 96 |
| 32) 1,1,1-Trichloroethane | 7.880 | 97 | 384671 | 94.913 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 8.093 | 75 | 373215 | 96.444 | ug/l | 99 |
| 37) Ethyl Acetate | 7.270 | 43 | 221929 | 97.375 | ug/l | 99 |
| 38) Carbon Tetrachloride | 8.081 | 117 | 362373 | 97.035 | ug/l | 91 |
| 39) Methylcyclohexane | 9.337 | 83 | 459134 | 97.342 | ug/l | 97 |
| 40) Benzene | 8.331 | 78 | 1160107 | 96.444 | ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032056.D
Acq On : 11 Aug 2025 10:46
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Quant Time: Aug 12 03:39:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.496 | 41 | 135773 | 105.048 | ug/l | | 97 |
| 42) 1,2-Dichloroethane | 8.410 | 62 | 364674 | 94.743 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.435 | 43 | 413211 | 98.543 | ug/l | | 99 |
| 44) Trichloroethene | 9.093 | 130 | 270995 | 94.602 | ug/l | | 99 |
| 45) 1,2-Dichloropropane | 9.374 | 63 | 278124 | 95.707 | ug/l | | 99 |
| 46) Dibromomethane | 9.465 | 93 | 177966 | 94.888 | ug/l | | 98 |
| 47) Bromodichloromethane | 9.648 | 83 | 422958 | 97.867 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.441 | 41 | 202632 | 100.098 | ug/l | | 98 |
| 49) 1,4-Dioxane | 9.459 | 88 | 46383 | 1912.696 | ug/l | | 99 |
| 51) 4-Methyl-2-Pentanone | 10.209 | 43 | 1127080 | 476.209 | ug/l | | 99 |
| 52) Toluene | 10.386 | 92 | 753592 | 99.464 | ug/l | | 96 |
| 53) t-1,3-Dichloropropene | 10.605 | 75 | 410734 | 101.442 | ug/l | | 95 |
| 54) cis-1,3-Dichloropropene | 10.075 | 75 | 468972 | 102.096 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 10.788 | 97 | 239507 | 96.099 | ug/l | | 97 |
| 56) Ethyl methacrylate | 10.642 | 69 | 348446 | 104.477 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.934 | 76 | 412949 | 95.056 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.928 | 63 | 948129 | 513.956 | ug/l | | 99 |
| 59) 2-Hexanone | 10.965 | 43 | 793810 | 484.283 | ug/l | | 99 |
| 60) Dibromochloromethane | 11.129 | 129 | 282060 | 99.074 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.233 | 107 | 240542 | 99.317 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.867 | 164 | 213297 | 95.247 | ug/l | | 94 |
| 65) Chlorobenzene | 11.654 | 112 | 808609 | 95.819 | ug/l | | 96 |
| 66) 1,1,1,2-Tetrachloroethane | 11.727 | 131 | 253284 | 96.197 | ug/l | | 97 |
| 67) Ethyl Benzene | 11.727 | 91 | 1418619 | 99.243 | ug/l | | 96 |
| 68) m/p-Xylenes | 11.837 | 106 | 1089143 | 197.459 | ug/l | | 97 |
| 69) o-Xylene | 12.166 | 106 | 523329 | 102.652 | ug/l | | 97 |
| 70) Styrene | 12.178 | 104 | 916019 | 101.158 | ug/l | | 100 |
| 71) Bromoform | 12.349 | 173 | 145781 | 96.794 | ug/l | # | 92 |
| 73) Isopropylbenzene | 12.458 | 105 | 1299533 | 102.870 | ug/l | | 100 |
| 74) N-amyl acetate | 12.269 | 43 | 378722 | 104.494 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.708 | 83 | 286977 | 95.677 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.763 | 75 | 363264 | 130.728 | ug/l | | 61 |
| 77) Bromobenzene | 12.745 | 156 | 311049 | 103.091 | ug/l | | 96 |
| 78) n-propylbenzene | 12.800 | 91 | 1589147 | 102.177 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.891 | 91 | 974324 | 101.505 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.940 | 105 | 1092987 | 101.912 | ug/l | | 98 |
| 81) trans-1,4-Dichloro-2-b... | 12.507 | 75 | 98906 | 104.370 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 12.983 | 91 | 1013836 | 99.412 | ug/l | | 99 |
| 83) tert-Butylbenzene | 13.202 | 119 | 922044 | 103.591 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.245 | 105 | 1089327 | 99.778 | ug/l | | 96 |
| 85) sec-Butylbenzene | 13.379 | 105 | 1372324 | 101.978 | ug/l | | 98 |
| 86) p-Isopropyltoluene | 13.495 | 119 | 1128935 | 100.630 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.495 | 146 | 572145 | 95.298 | ug/l | | 96 |
| 88) 1,4-Dichlorobenzene | 13.574 | 146 | 587417 | 96.819 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.818 | 91 | 1103362 | 101.235 | ug/l | | 99 |
| 90) Hexachloroethane | 14.086 | 117 | 204823 | 99.832 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 13.867 | 146 | 524204 | 96.387 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.476 | 75 | 50993 | 95.632 | ug/l | | 97 |
| 93) 1,2,4-Trichlorobenzene | 15.129 | 180 | 338661 | 104.094 | ug/l | | 97 |
| 94) Hexachlorobutadiene | 15.226 | 225 | 138434 | 95.189 | ug/l | | 98 |
| 95) Naphthalene | 15.360 | 128 | 841296 | 105.533 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.549 | 180 | 313033 | 105.748 | ug/l | | 99 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032056.D
Acq On : 11 Aug 2025 10:46
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Quant Time: Aug 12 03:39:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

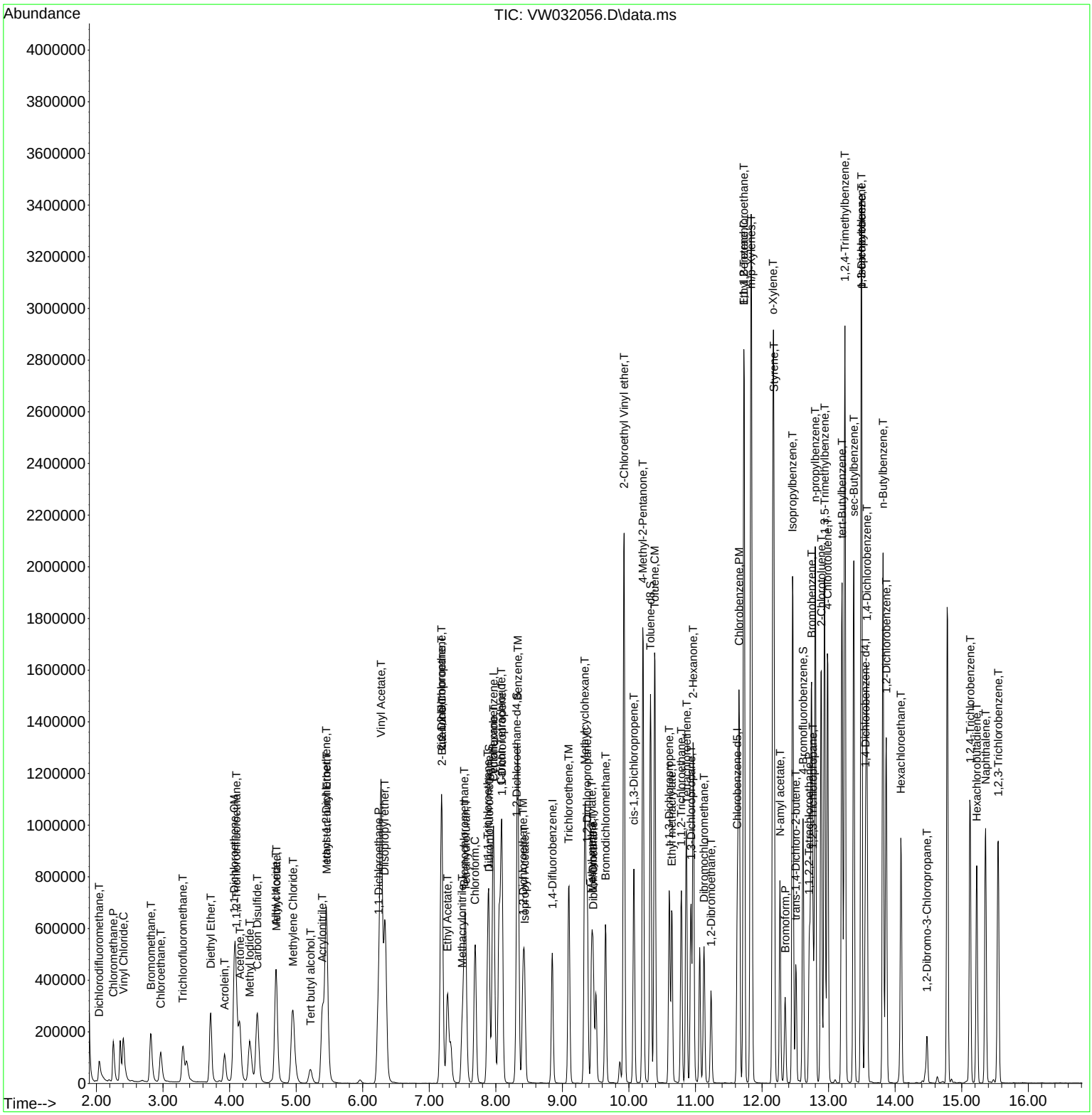
(#) = qualifier out of range (m) = manual integration (+) = signals summed

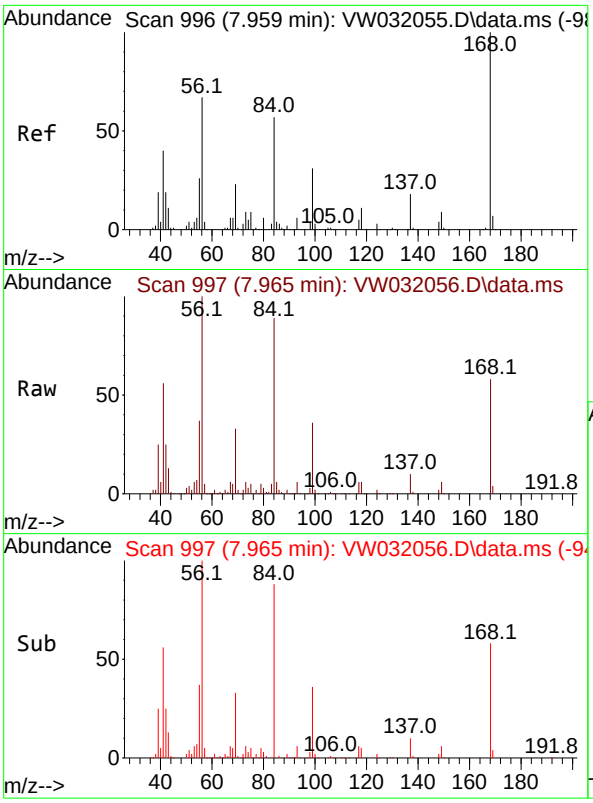
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032056.D
Acq On : 11 Aug 2025 10:46
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Quant Time: Aug 12 03:39:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration



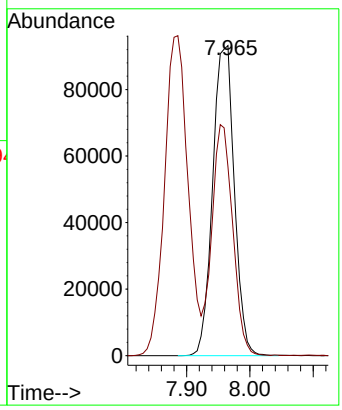


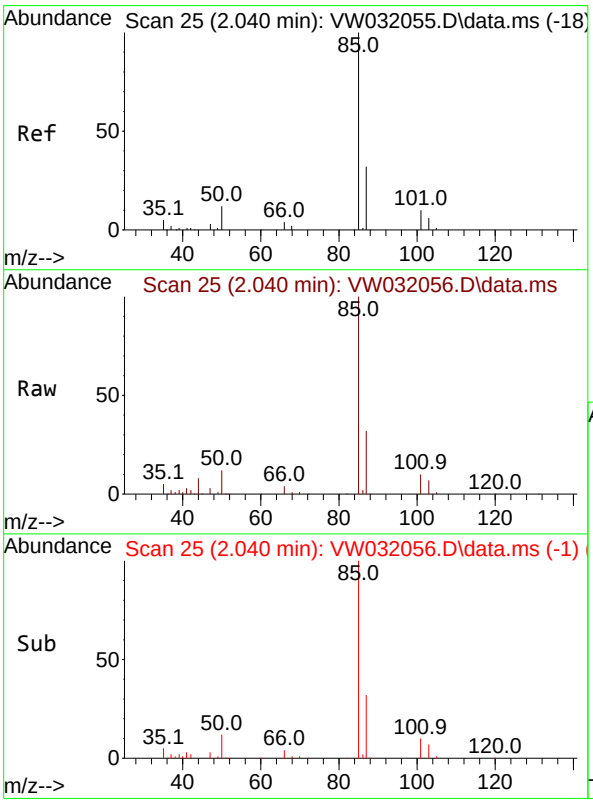

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion:168 Resp: 221384

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 60.8 | 56.0 | 84.0 |

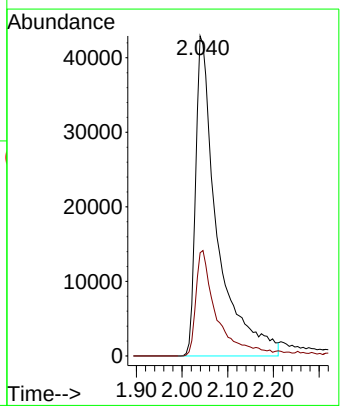


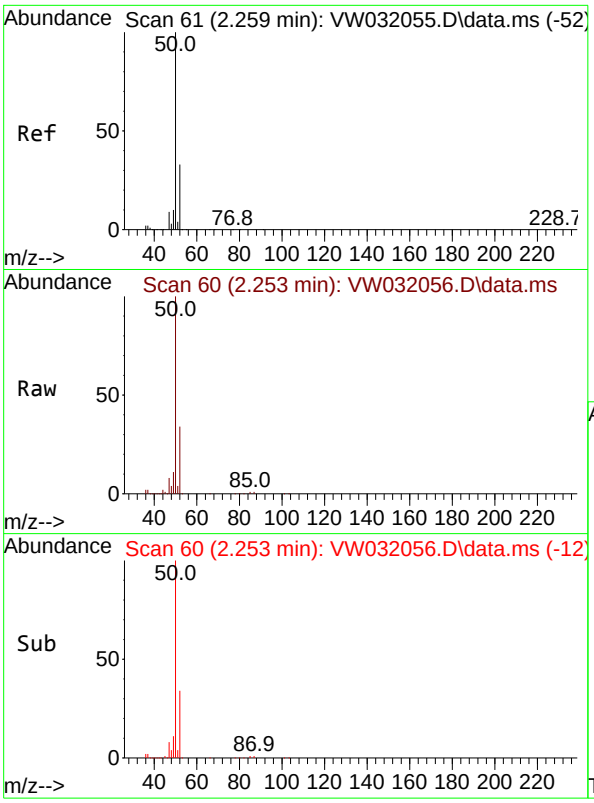




#2
Dichlorodifluoromethane
Concen: 88.627 ug/l
RT: 2.040 min Scan# 25
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 85 Resp: 140330

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.3 | 16.2 | 48.6 |



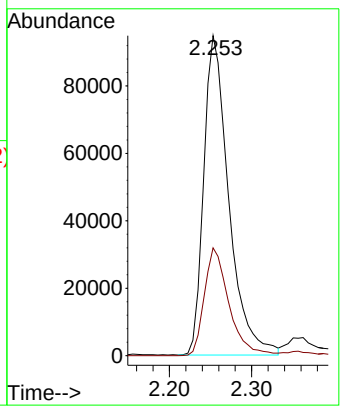


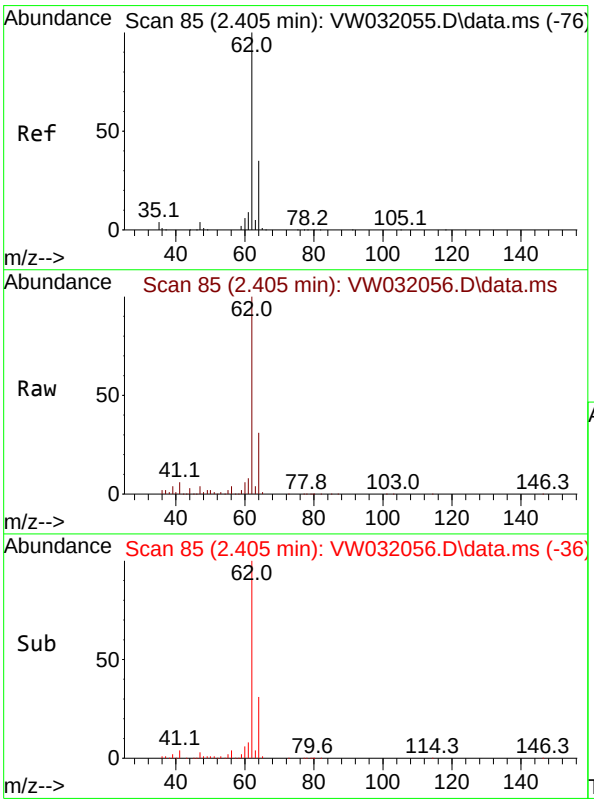

#3
Chloromethane
Concen: 93.894 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion: 50 Resp: 200261

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.8 | 26.6 | 39.8 |

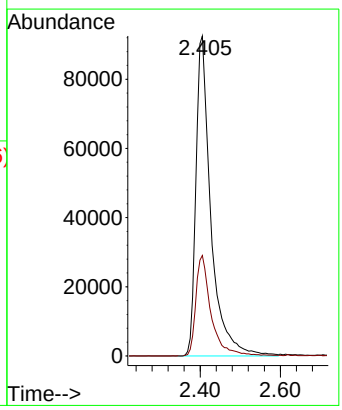


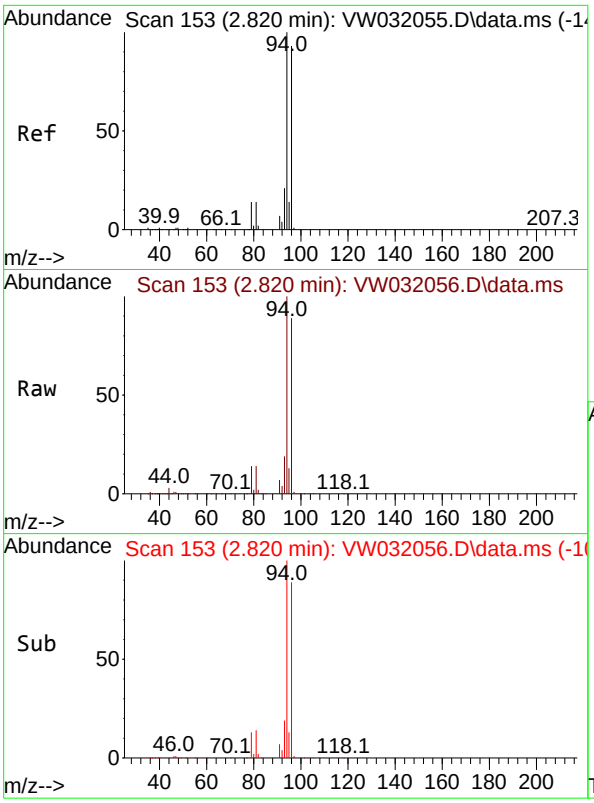




#4
Vinyl Chloride
Concen: 92.654 ug/l
RT: 2.405 min Scan# 85
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 62 Resp: 239040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.3 | 27.8 | 41.6 |



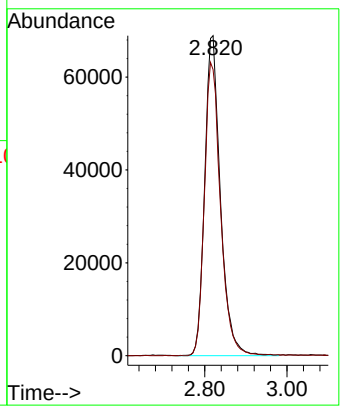


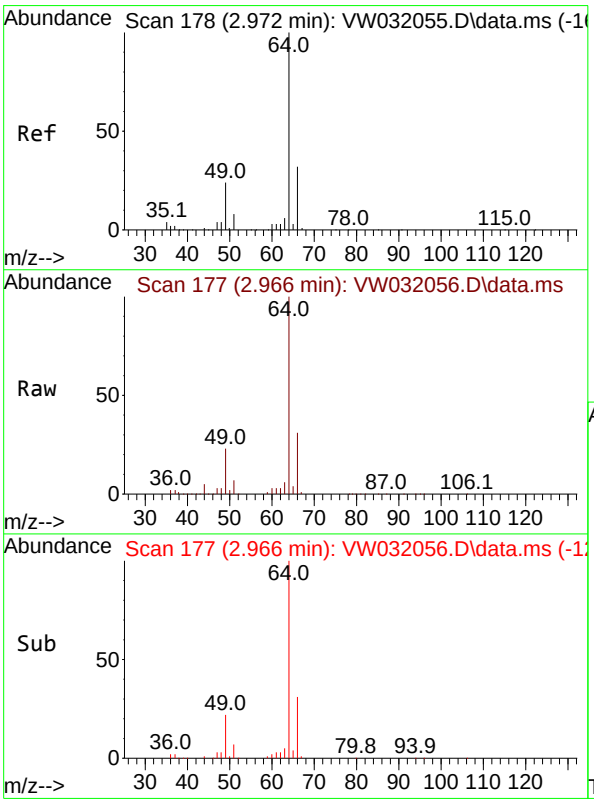

#5
Bromomethane
Concen: 94.386 ug/l
RT: 2.820 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion: 94 Resp: 182687

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 89.4 | 74.7 | 112.1 |

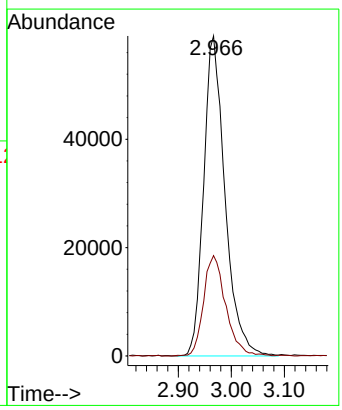


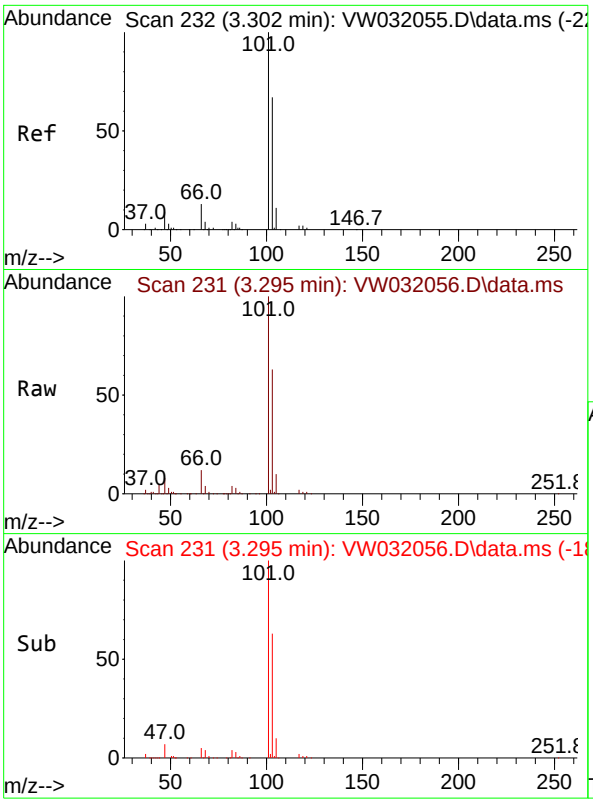




#6
Chloroethane
Concen: 96.628 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 64 Resp: 164961

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.1 | 26.0 | 39.0 |



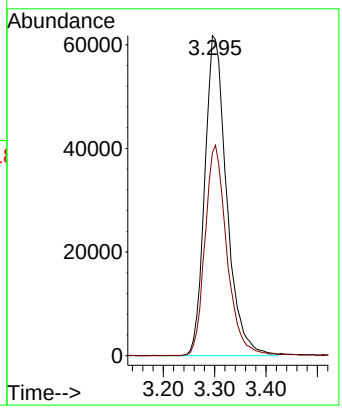


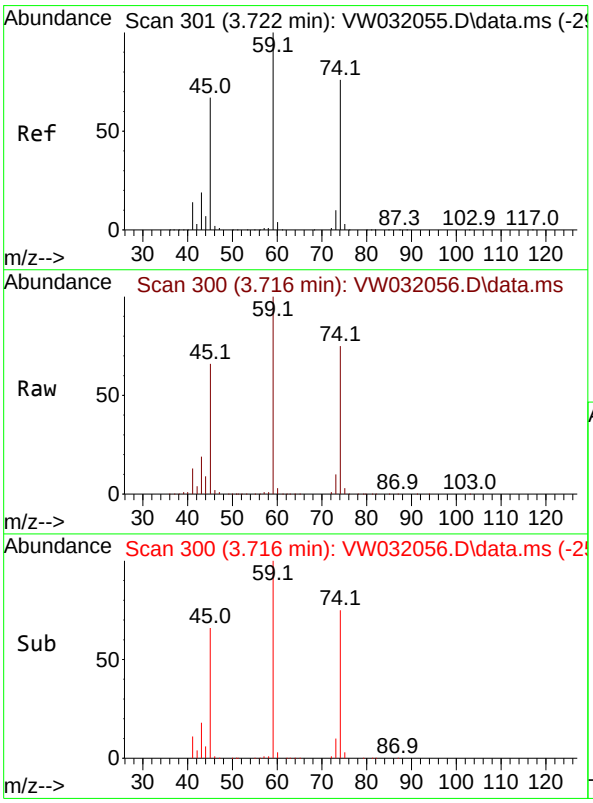

#7
Trichlorofluoromethane
Concen: 88.382 ug/l
RT: 3.295 min Scan# 2
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion:101 Resp: 182663

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.3 | 53.4 | 80.0 |

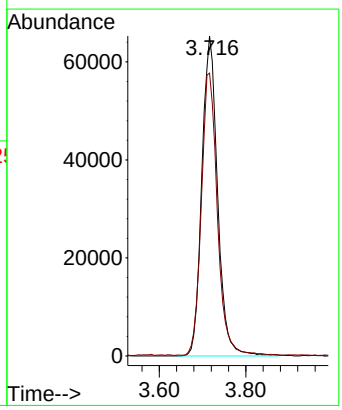


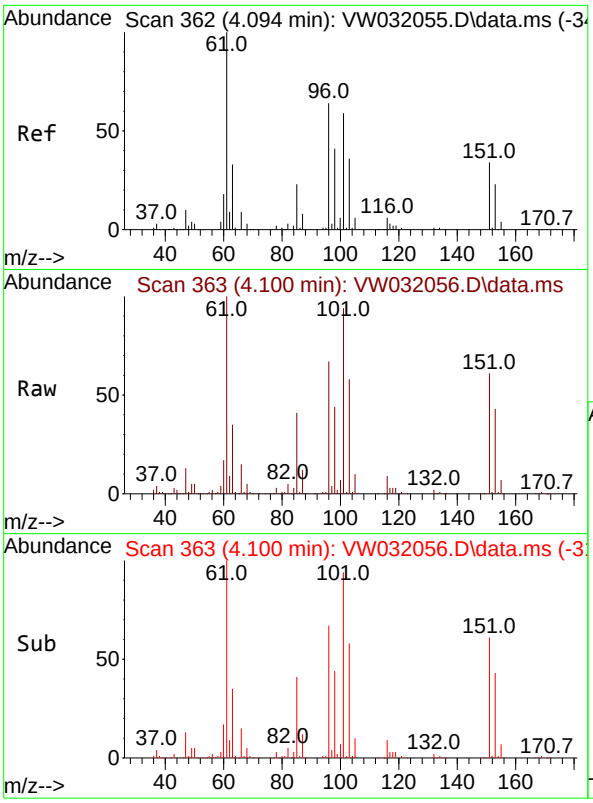




#8
Diethyl Ether
Concen: 97.227 ug/l
RT: 3.716 min Scan# 300
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 74 Resp: 164632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 90.1 | 45.4 | 136.2 |



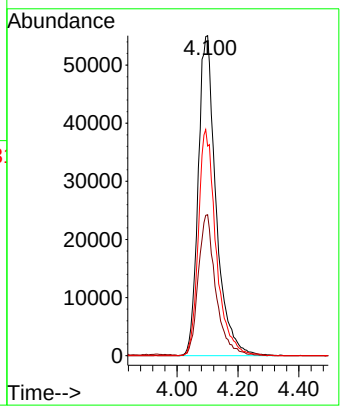


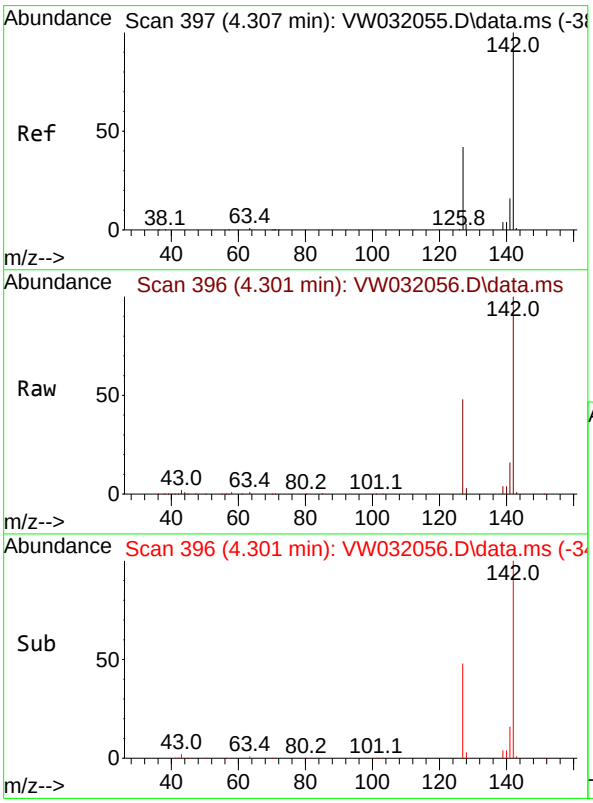

#9
1,1,2-Trichlorotrifluoroethane
Concen: 91.988 ug/l
RT: 4.100 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion:101 Resp: 224293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 43.3 | 34.9 | 52.3 |
| 151 | 70.2 | 56.2 | 84.4 |

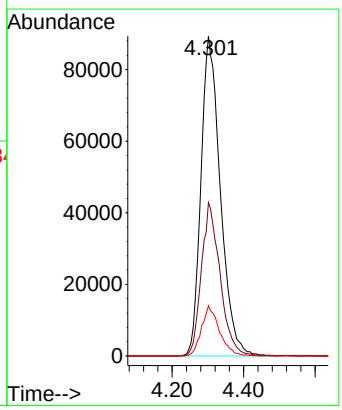


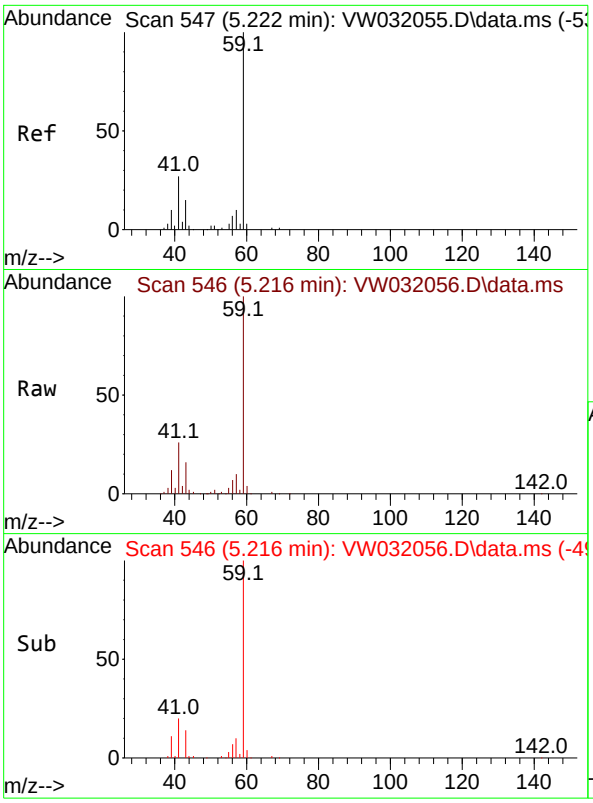




#10
Methyl Iodide
Concen: 97.237 ug/l
RT: 4.301 min Scan# 396
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:142 Resp: 336162

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 46.2 | 36.6 | 55.0 |
| 141 | 14.5 | 12.1 | 18.1 |



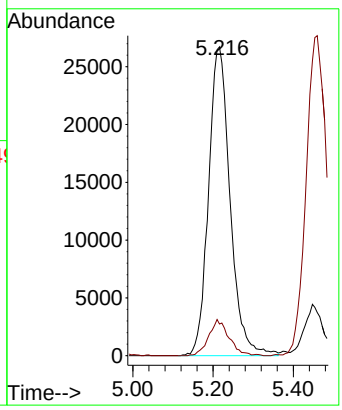


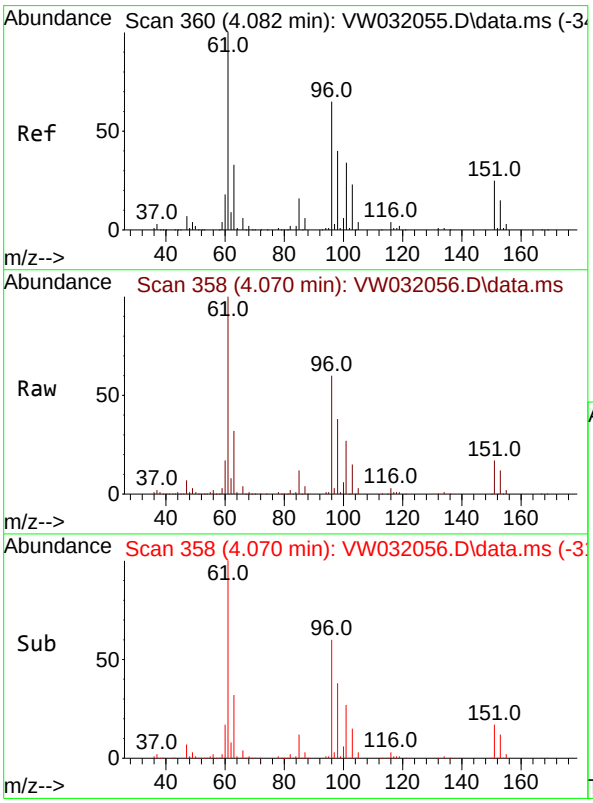

#11
Tert butyl alcohol
Concen: 480.735 ug/l
RT: 5.216 min Scan# 54
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion: 59 Resp: 99671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.9 | 8.7 | 13.1 |

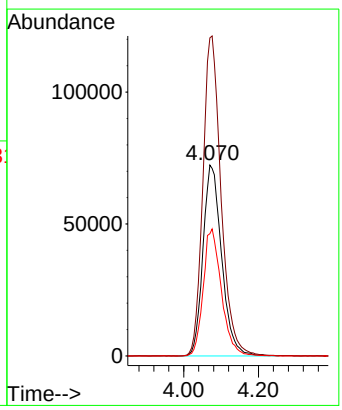


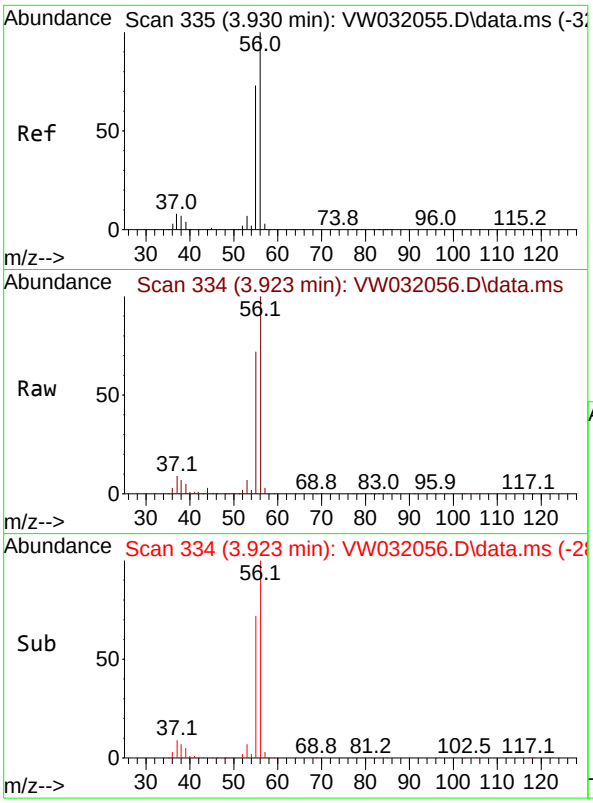




#12
1,1-Dichloroethene
Concen: 93.615 ug/l
RT: 4.070 min Scan# 358
Delta R.T. -0.012 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 96 Resp: 251341

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 166.5 | 123.4 | 185.2 |
| 98 | 64.0 | 49.5 | 74.3 |



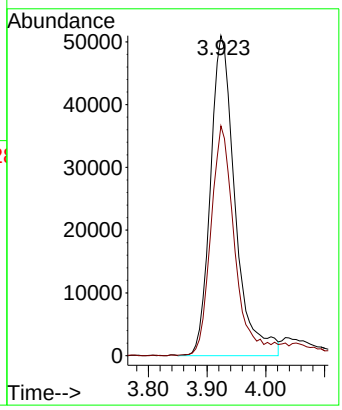


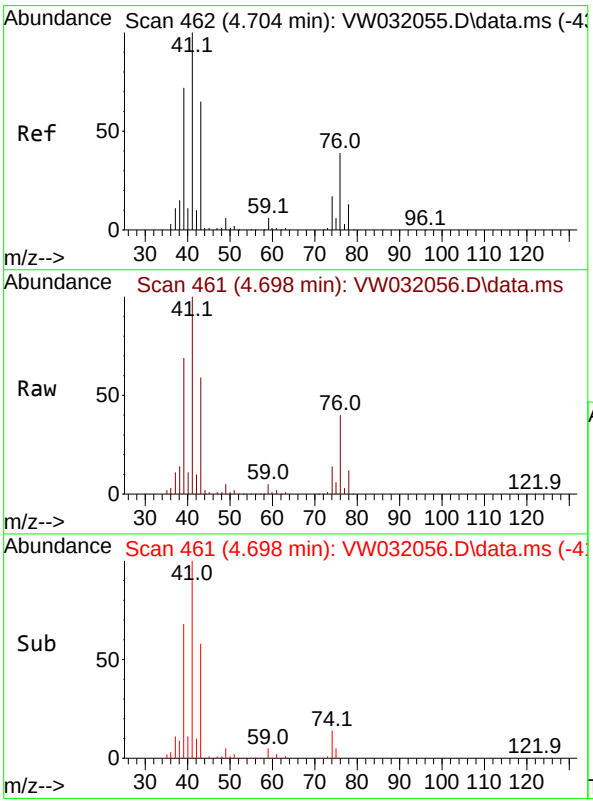

#13
Acrolein
Concen: 449.230 ug/l
RT: 3.923 min Scan# 3
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion: 56 Resp: 148403

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 69.0 | 55.4 | 83.2 |

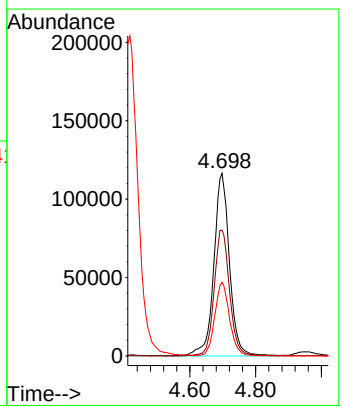


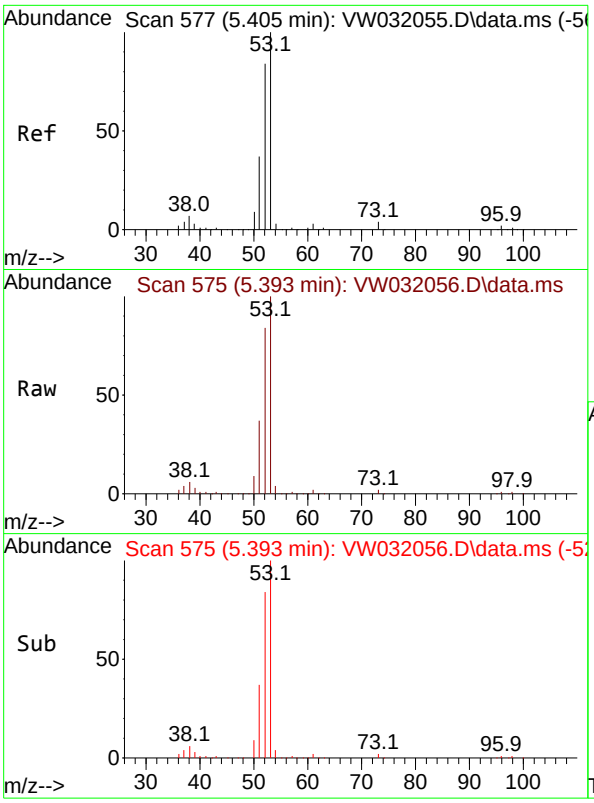




#14
Allyl chloride
Concen: 98.543 ug/l
RT: 4.698 min Scan# 461
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 41 Resp: 385062

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 67.5 | 54.5 | 81.7 |
| 76 | 37.8 | 29.3 | 43.9 |



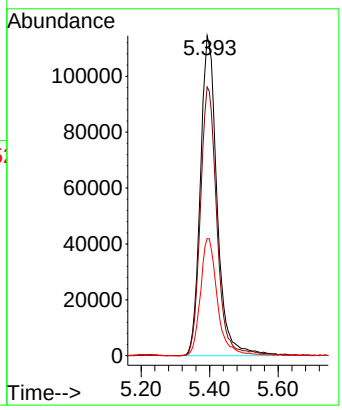


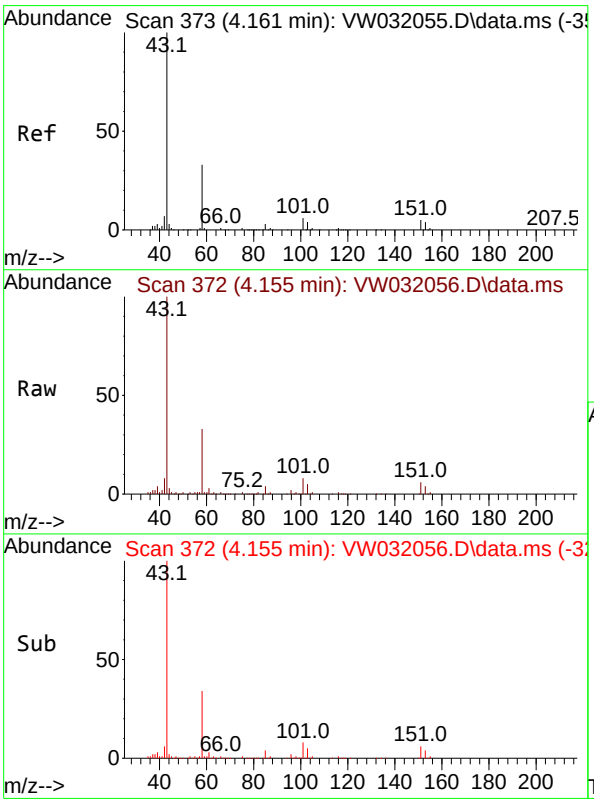

#15
Acrylonitrile
Concen: 481.445 ug/l
RT: 5.393 min Scan# 5
Delta R.T. -0.012 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion: 53 Resp: 388290

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 83.3 | 66.1 | 99.1 |
| 51 | 37.3 | 29.2 | 43.8 |

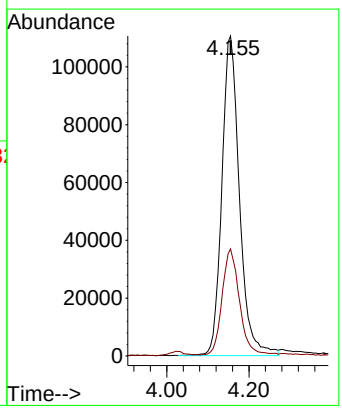


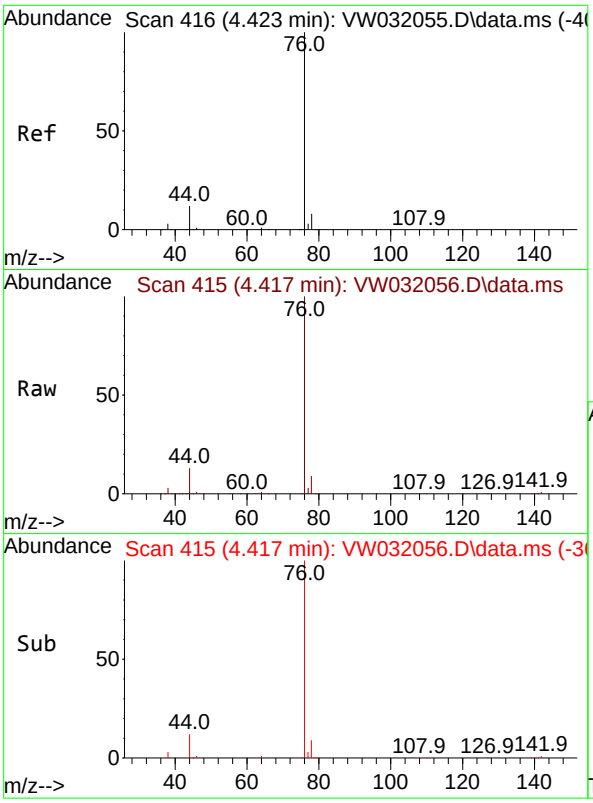




#16
Acetone
Concen: 443.358 ug/l
RT: 4.155 min Scan# 372
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 43 Resp: 328664

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.9 | 26.6 | 39.8 |



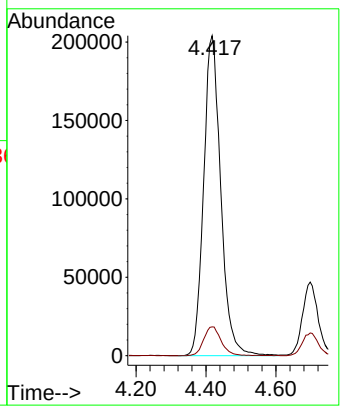


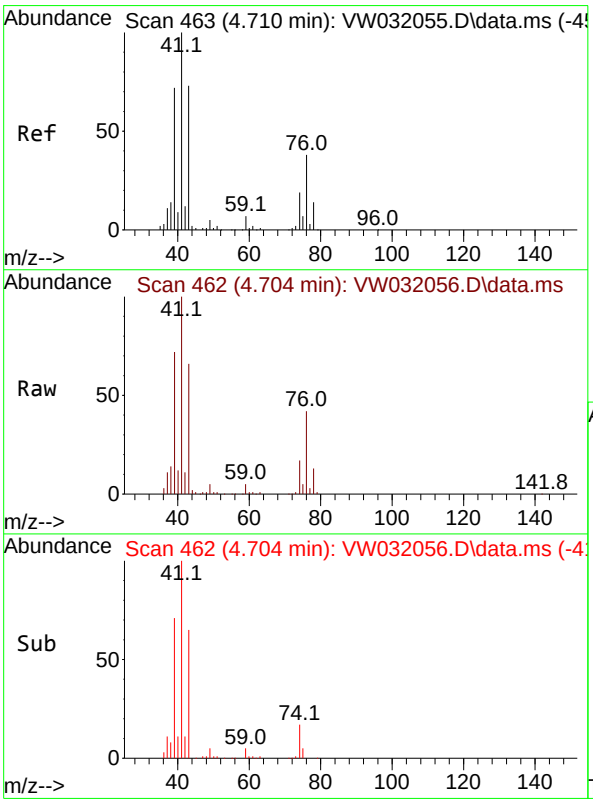

#17
Carbon Disulfide
Concen: 96.248 ug/l
RT: 4.417 min Scan# 4
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion: 76 Resp: 693616

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.0 | 6.4 | 9.6 |

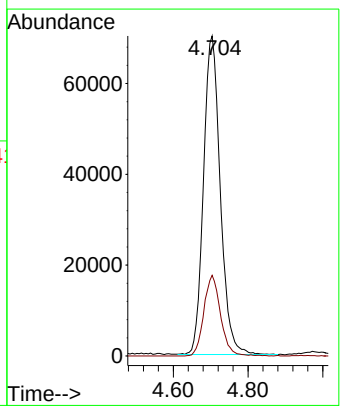


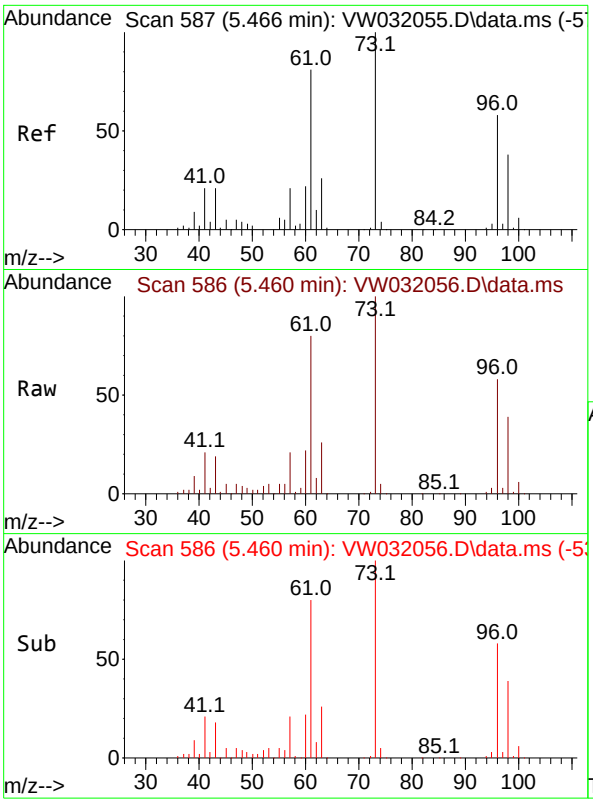




#18
Methyl Acetate
Concen: 93.230 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 43 Resp: 218695

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 25.0 | 20.6 | 31.0 |



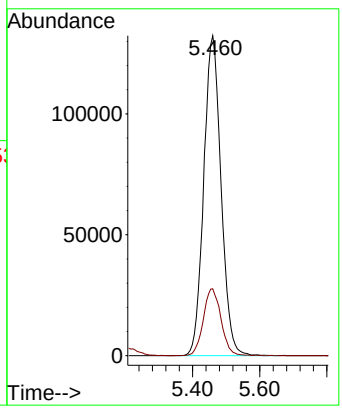


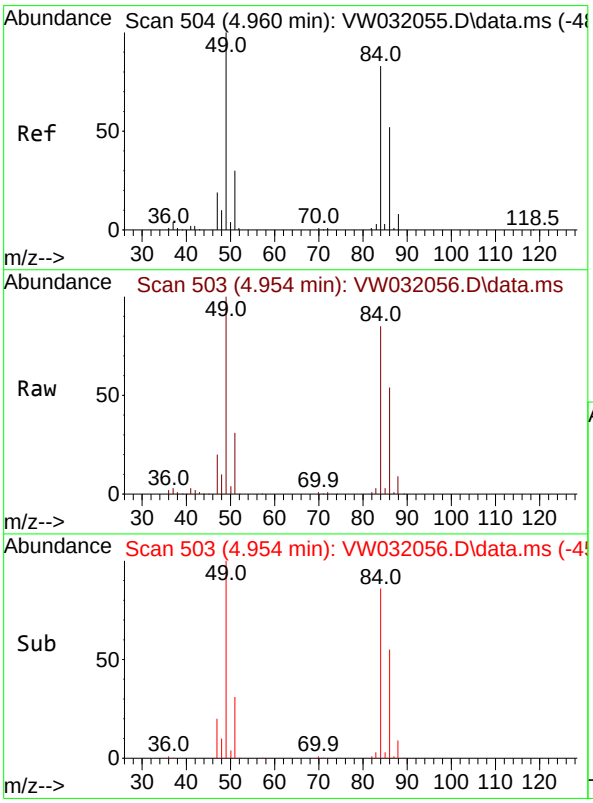

#19
Methyl tert-butyl Ether
Concen: 100.184 ug/l
RT: 5.460 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion: 73 Resp: 473924

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 20.9 | 17.2 | 25.8 |

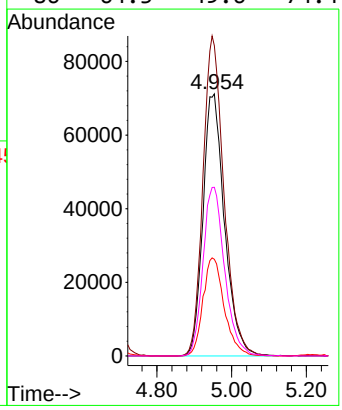


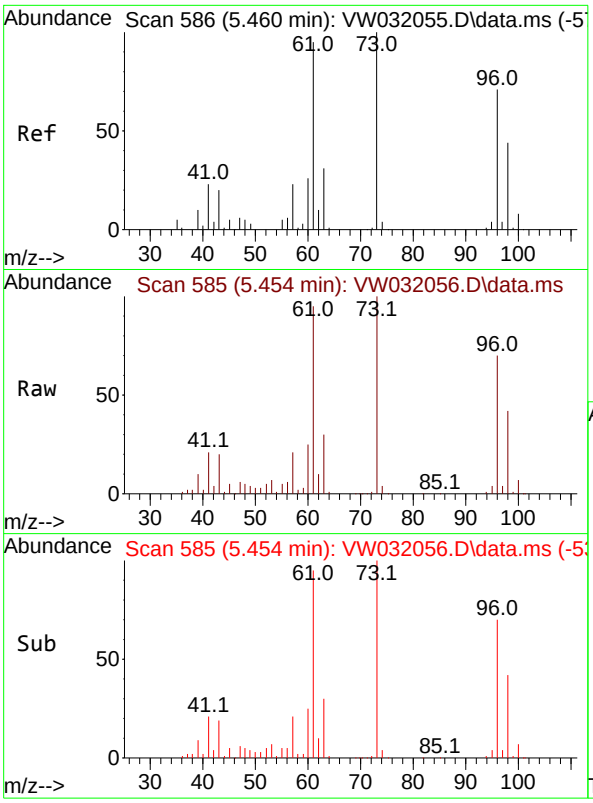




#20
Methylene Chloride
Concen: 83.165 ug/l
RT: 4.954 min Scan# 503
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 84 Resp: 285049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 118.3 | 95.9 | 143.9 |
| 51 | 36.8 | 28.6 | 43.0 |
| 86 | 64.3 | 49.6 | 74.4 |



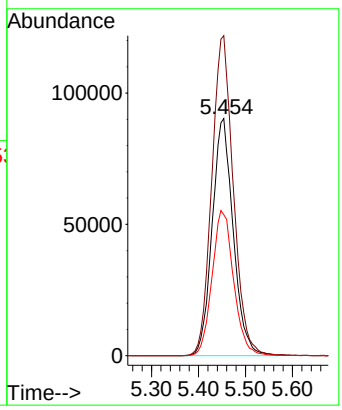


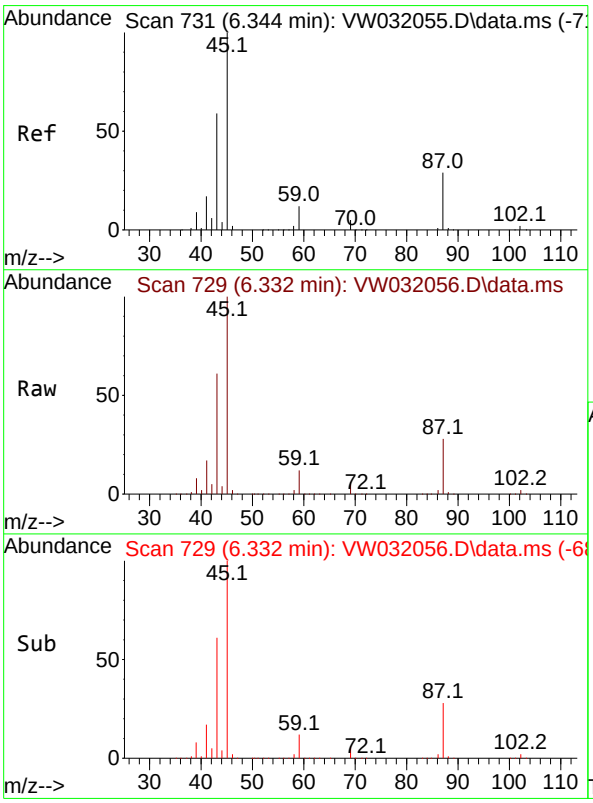

#21
trans-1,2-Dichloroethene
Concen: 98.787 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion: 96 Resp: 281466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 135.0 | 106.8 | 160.2 |
| 98 | 59.5 | 49.6 | 74.4 |

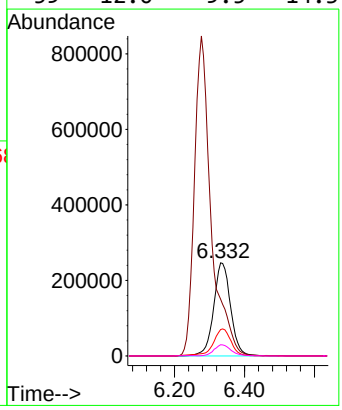


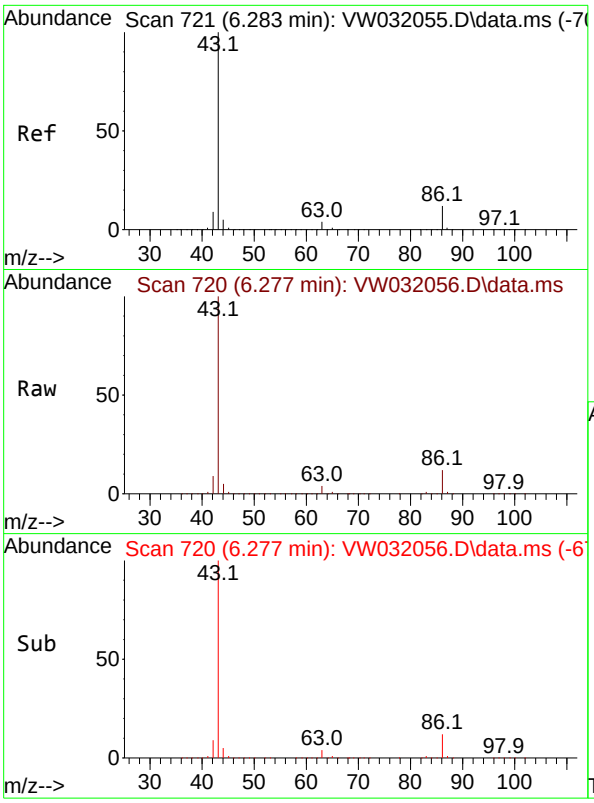




#22
Diisopropyl ether
Concen: 100.722 ug/l
RT: 6.332 min Scan# 729
Delta R.T. -0.012 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 45 Resp: 829703

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 60.8 | 47.0 | 70.4 |
| 87 | 28.3 | 23.8 | 35.8 |
| 59 | 12.0 | 9.5 | 14.3 |



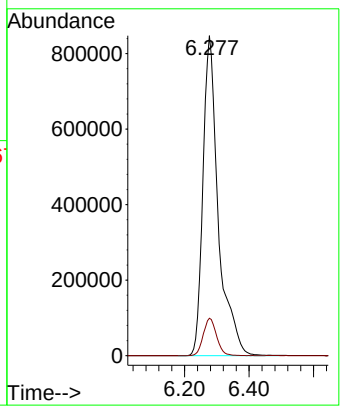


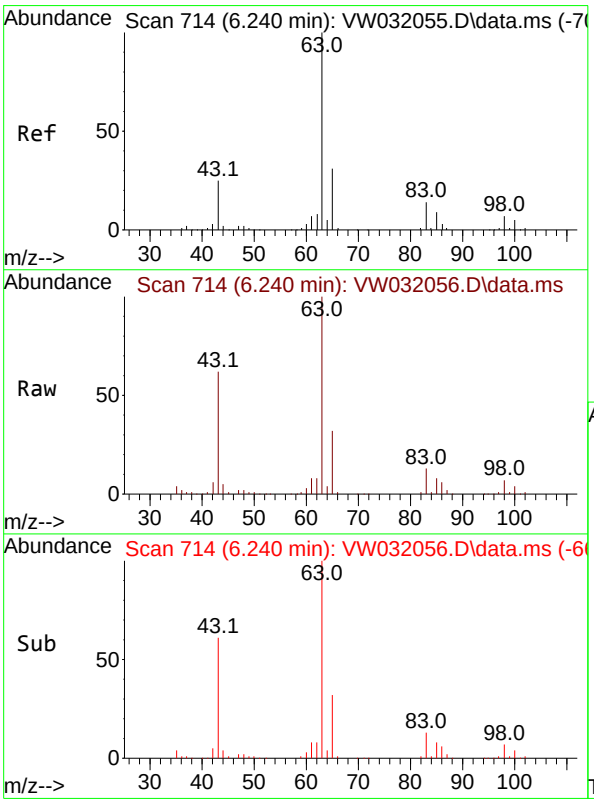

#23
Vinyl Acetate
Concen: 518.312 ug/l
RT: 6.277 min Scan# 7
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion: 43 Resp: 2803250

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.7 | 9.4 | 14.0 |

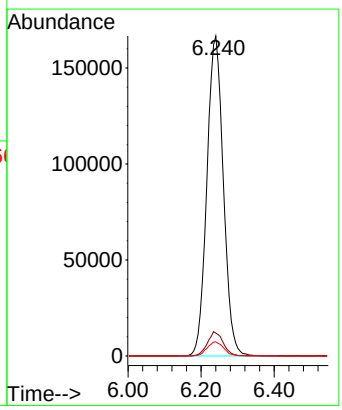


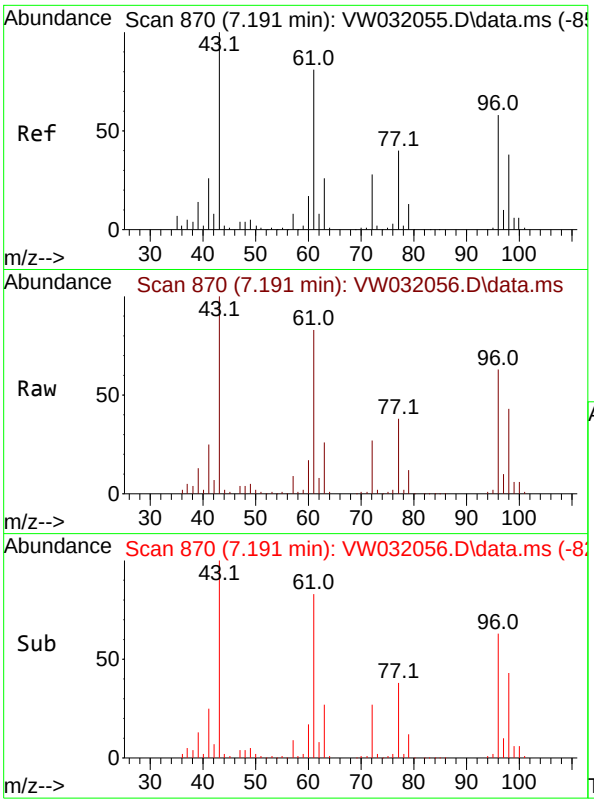




#24
1,1-Dichloroethane
Concen: 98.678 ug/l
RT: 6.240 min Scan# 714
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 63 Resp: 519360

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.2 | 3.7 | 11.1 |
| 100 | 4.4 | 2.5 | 7.4 |



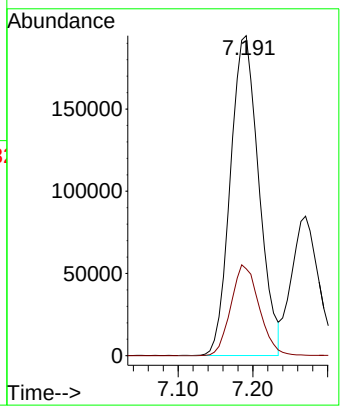


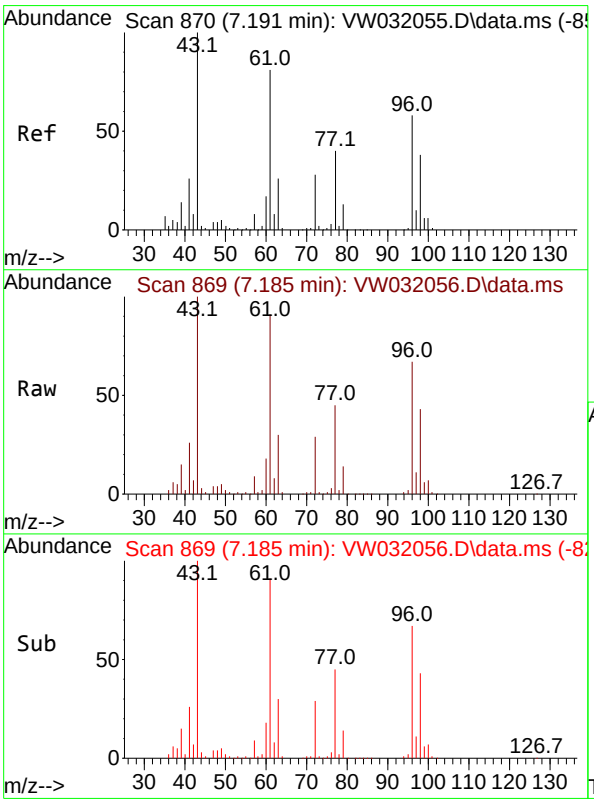

#25
2-Butanone
Concen: 489.508 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion: 43 Resp: 515739

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 27.1 | 22.3 | 33.5 |

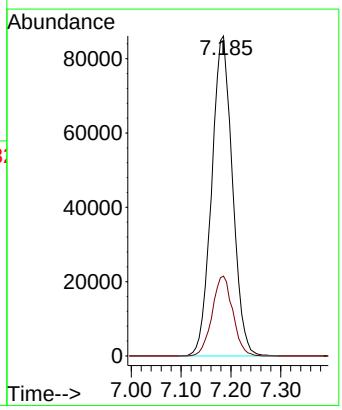


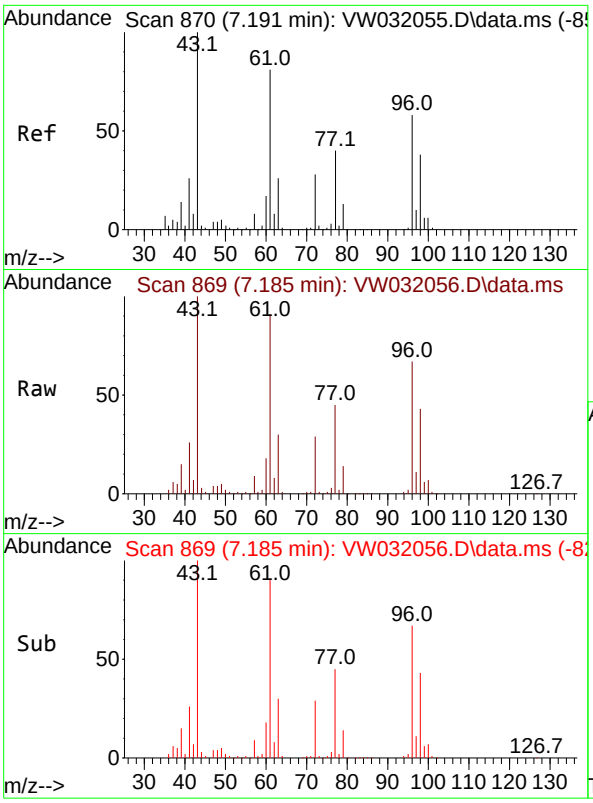




#26
2,2-Dichloropropane
Concen: 94.405 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 77 Resp: 249271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 24.8 | 12.3 | 36.9 |



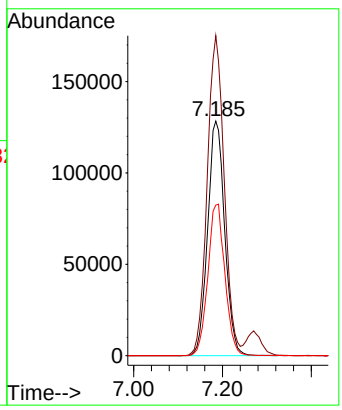


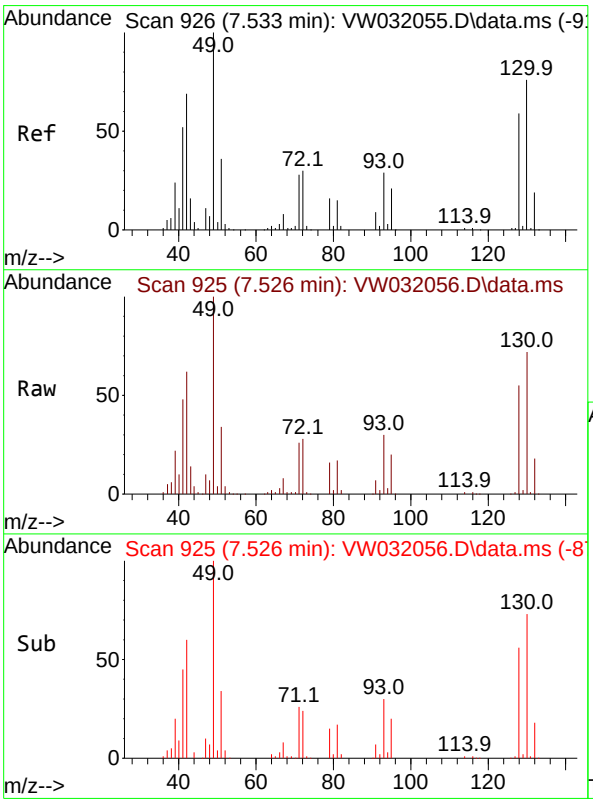

#27
cis-1,2-Dichloroethene
Concen: 103.016 ug/l
RT: 7.185 min Scan# 8
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion: 96 Resp: 343091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 136.1 | 0.0 | 281.2 |
| 98 | 64.5 | 0.0 | 130.8 |

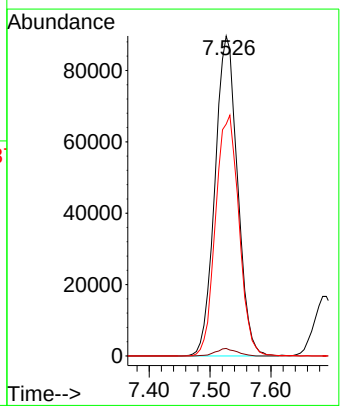


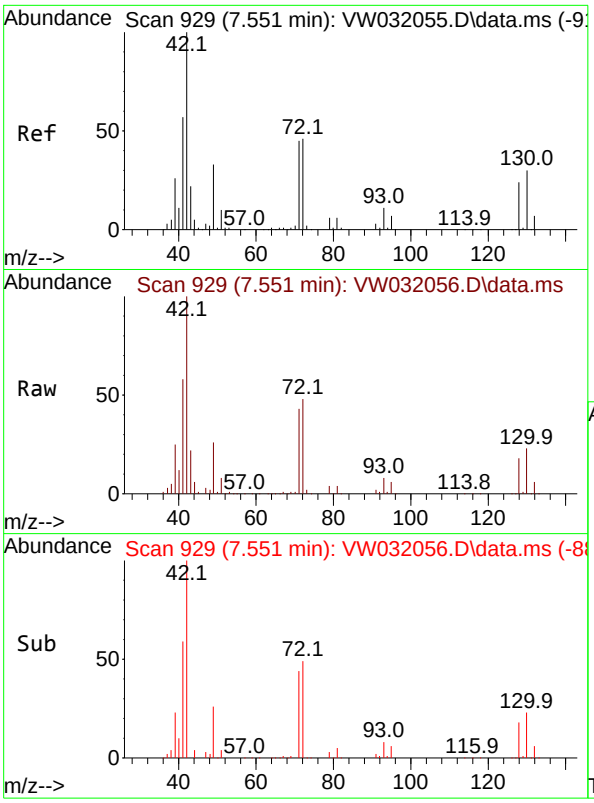




#28
Bromochloromethane
Concen: 96.333 ug/l
RT: 7.526 min Scan# 925
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 49 Resp: 230727

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.2 | 0.0 | 4.2 |
| 130 | 77.8 | 61.9 | 92.9 |



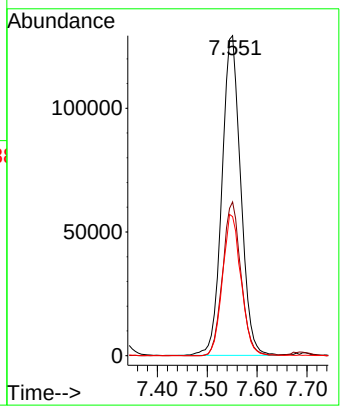


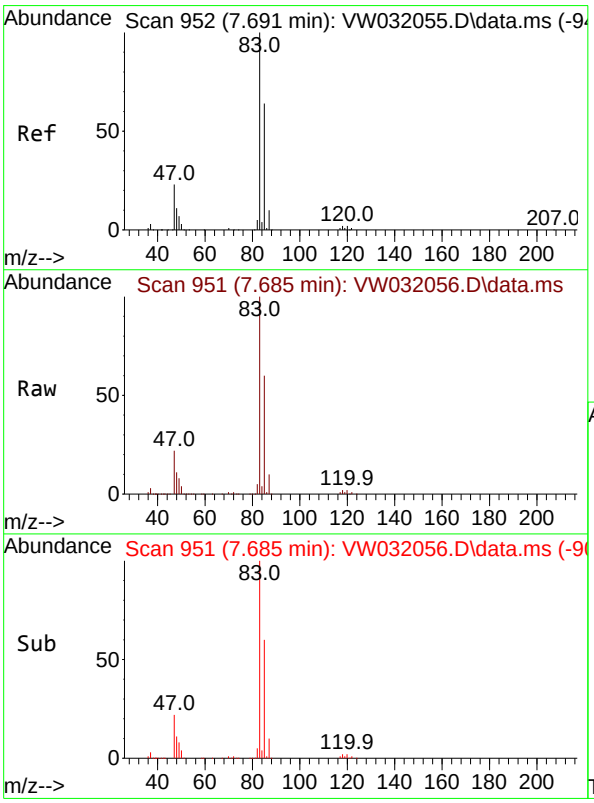

#29
Tetrahydrofuran
Concen: 487.284 ug/l
RT: 7.551 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion: 42 Resp: 338578

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 47.0 | 36.6 | 55.0 |
| 71 | 43.6 | 34.7 | 52.1 |

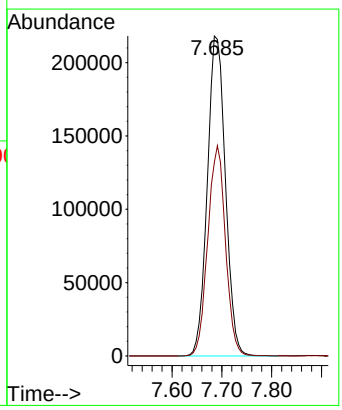


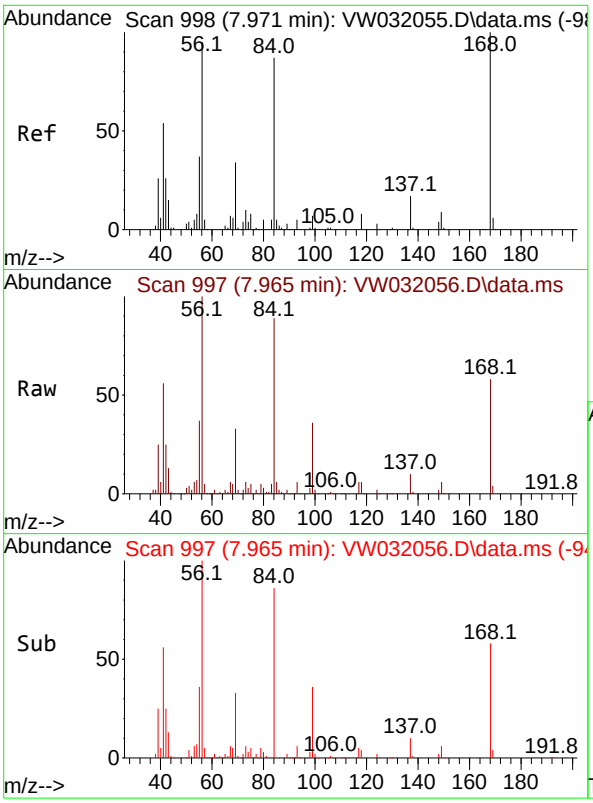




#30
Chloroform
Concen: 98.613 ug/l
RT: 7.685 min Scan# 951
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 83 Resp: 550232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 60.5 | 51.0 | 76.4 |



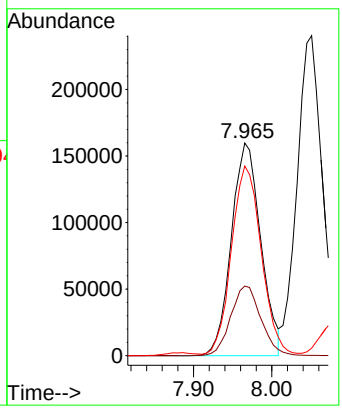


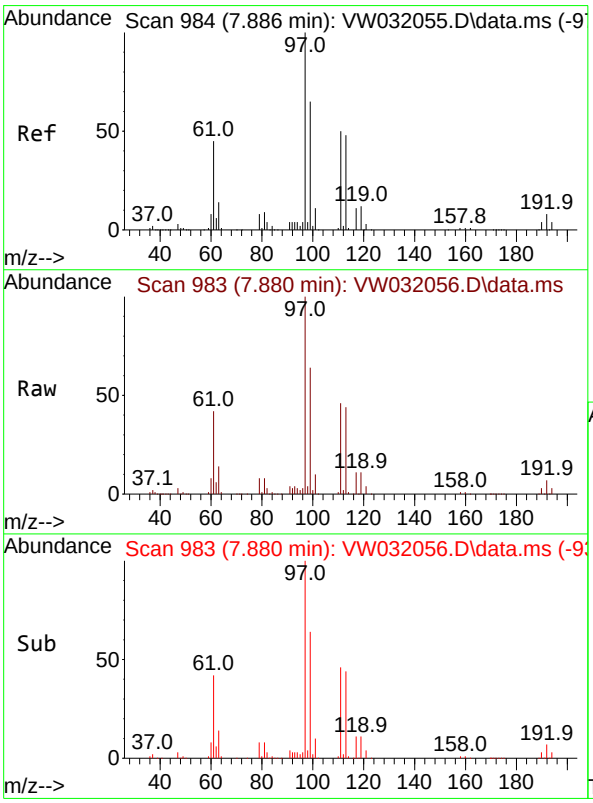

#31
Cyclohexane
Concen: 91.292 ug/l
RT: 7.965 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion: 56 Resp: 416558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 32.8 | 28.6 | 42.8 |
| 84 | 87.9 | 73.0 | 109.4 |

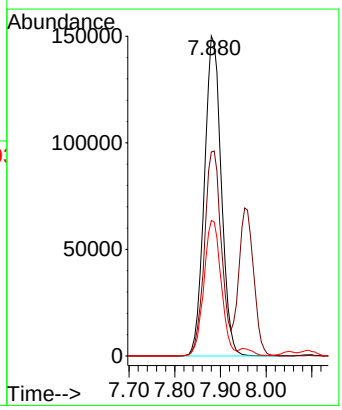


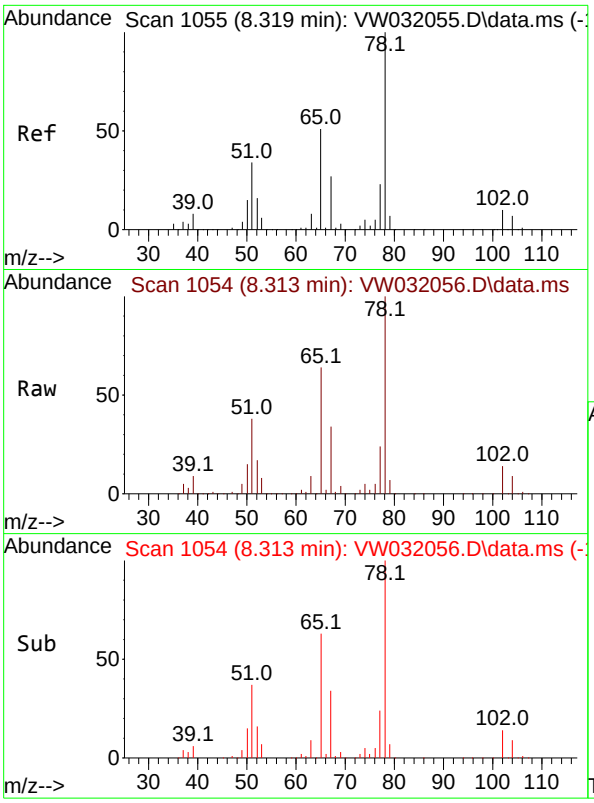




#32
1,1,1-Trichloroethane
Concen: 94.913 ug/l
RT: 7.880 min Scan# 983
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 97 Resp: 384671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.5 | 51.8 | 77.8 |
| 61 | 43.3 | 35.9 | 53.9 |



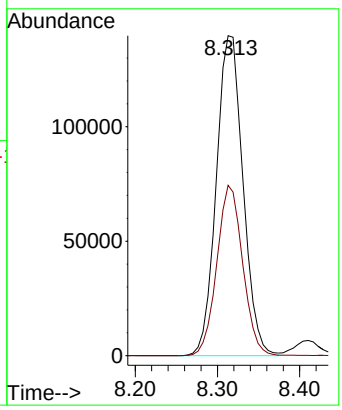


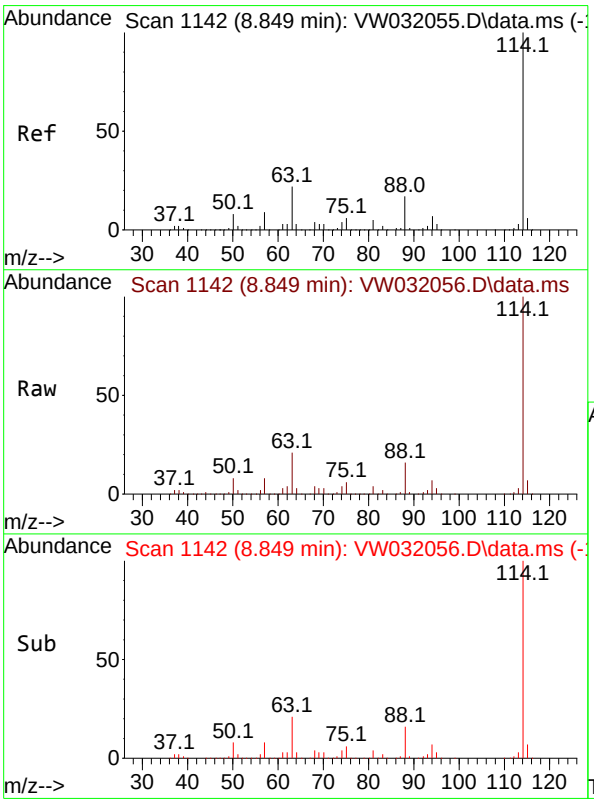

#33
1,2-Dichloroethane-d4
Concen: 98.509 ug/l
RT: 8.313 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion: 65 Resp: 315411

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.6 | 0.0 | 102.4 |

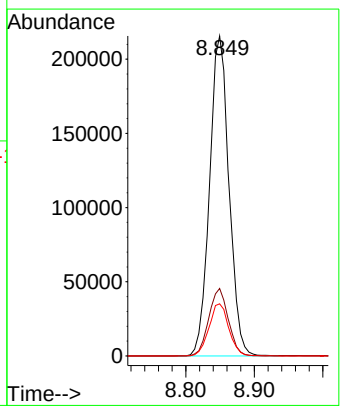


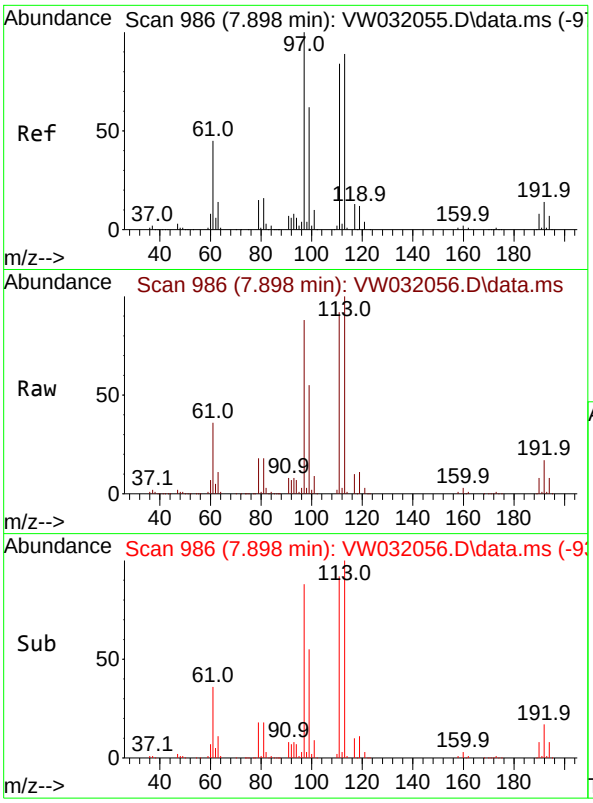




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:114 Resp: 424901

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.1 | 0.0 | 43.0 |
| 88 | 16.3 | 0.0 | 33.8 |



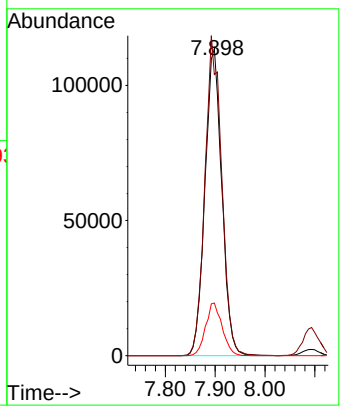


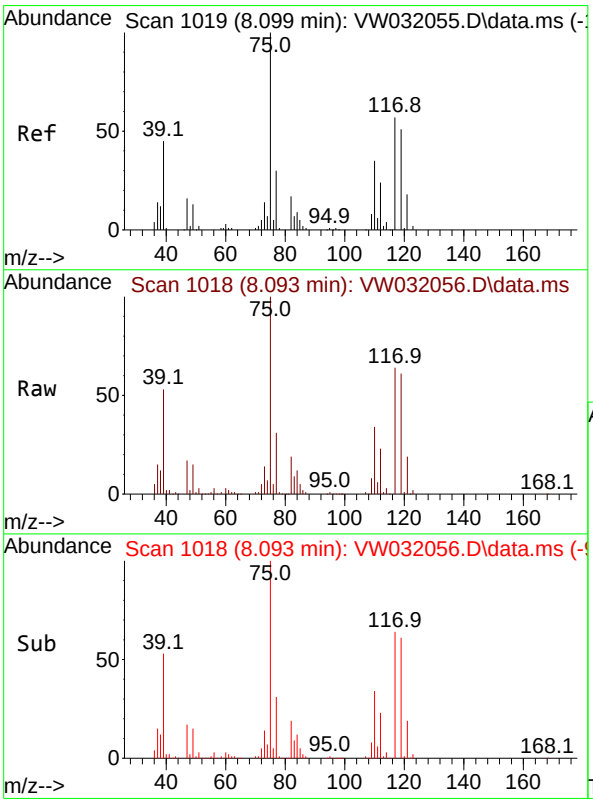

#35
Dibromofluoromethane
Concen: 96.945 ug/l
RT: 7.898 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion:113 Resp: 266117

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 104.0 | 80.1 | 120.1 |
| 192 | 16.9 | 13.1 | 19.7 |

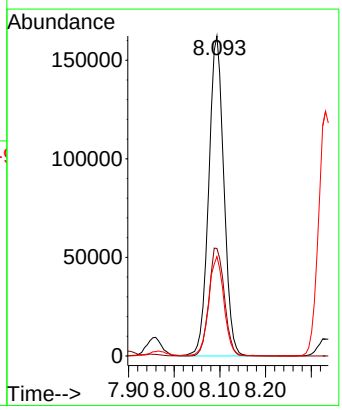


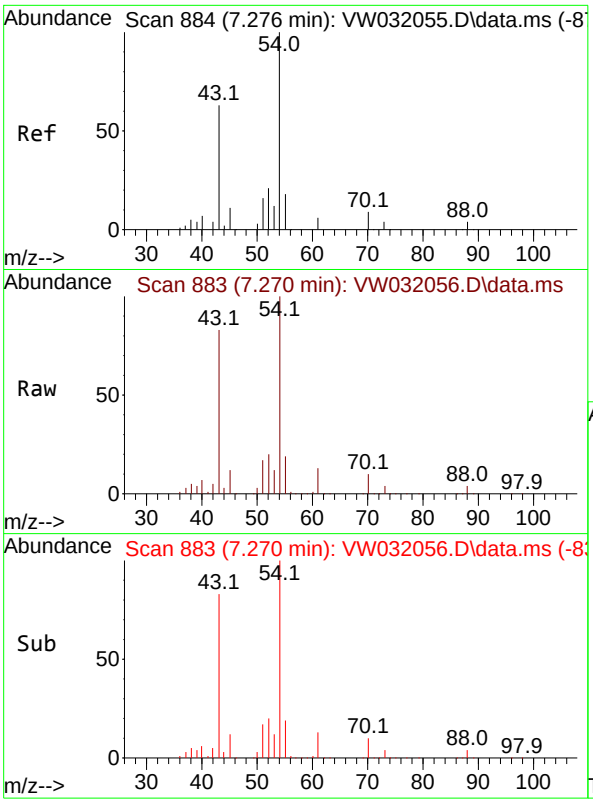




#36
1,1-Dichloropropene
Concen: 96.444 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 75 Resp: 373215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 34.5 | 17.4 | 52.2 |
| 77 | 31.3 | 24.7 | 37.1 |



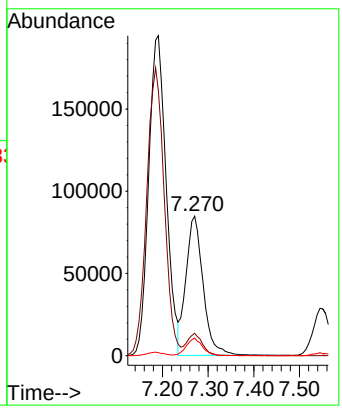


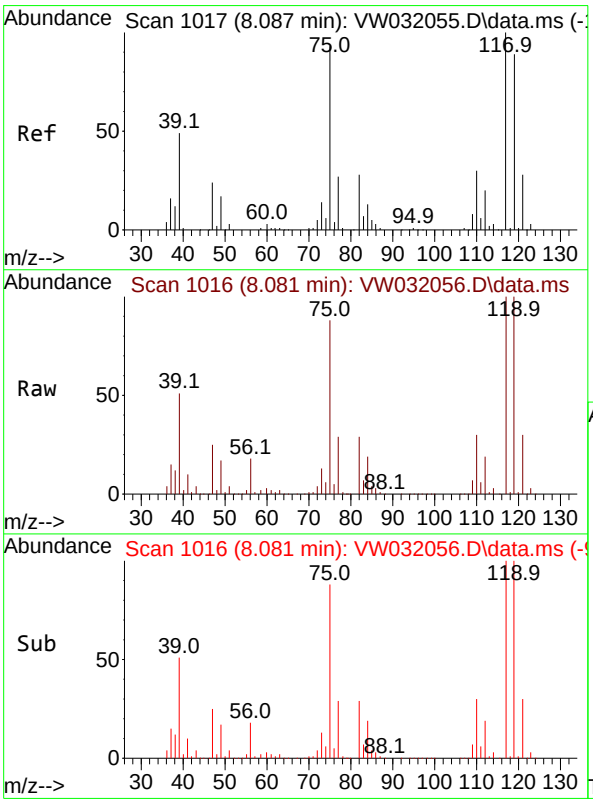

#37
Ethyl Acetate
Concen: 97.375 ug/l
RT: 7.270 min Scan# 8
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion: 43 Resp: 221929

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.4 | 11.8 | 17.6 |
| 70 | 11.5 | 9.4 | 14.0 |

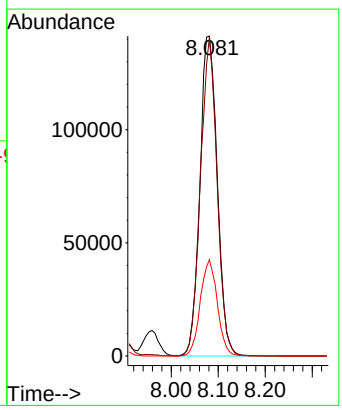


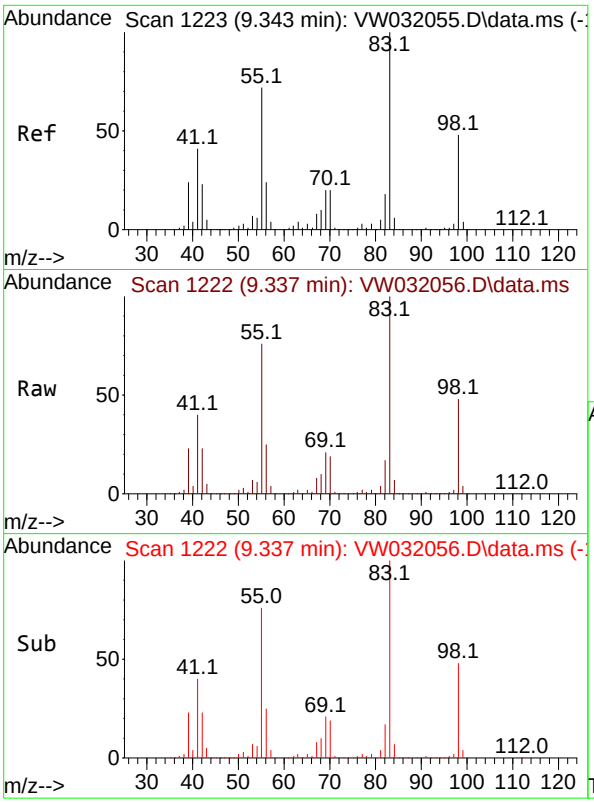




#38
Carbon Tetrachloride
Concen: 97.035 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:117 Resp: 362373

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 99.6 | 71.4 | 107.2 |
| 121 | 30.1 | 22.3 | 33.5 |



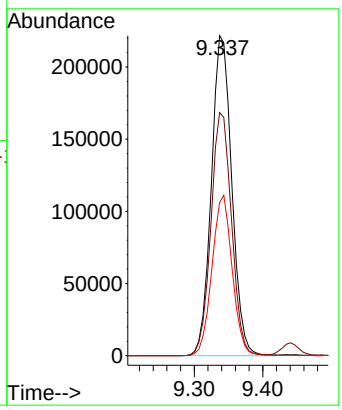


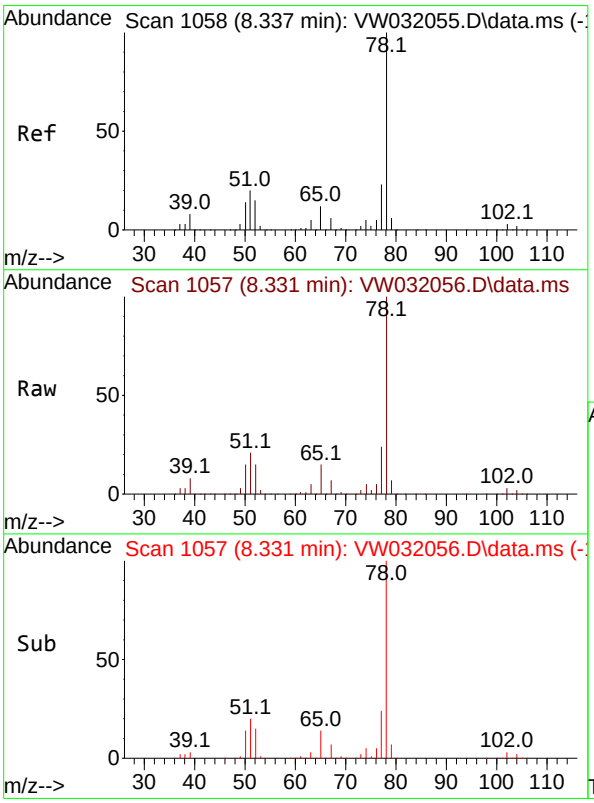

#39
Methylcyclohexane
Concen: 97.342 ug/l
RT: 9.337 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion: 83 Resp: 459134

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 76.0 | 57.9 | 86.9 |
| 98 | 47.8 | 38.3 | 57.5 |

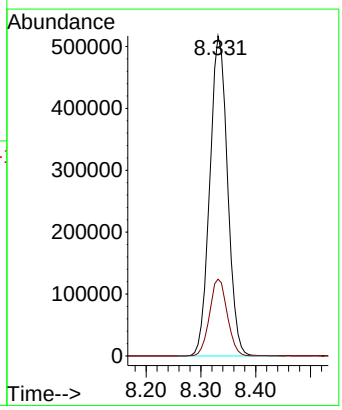


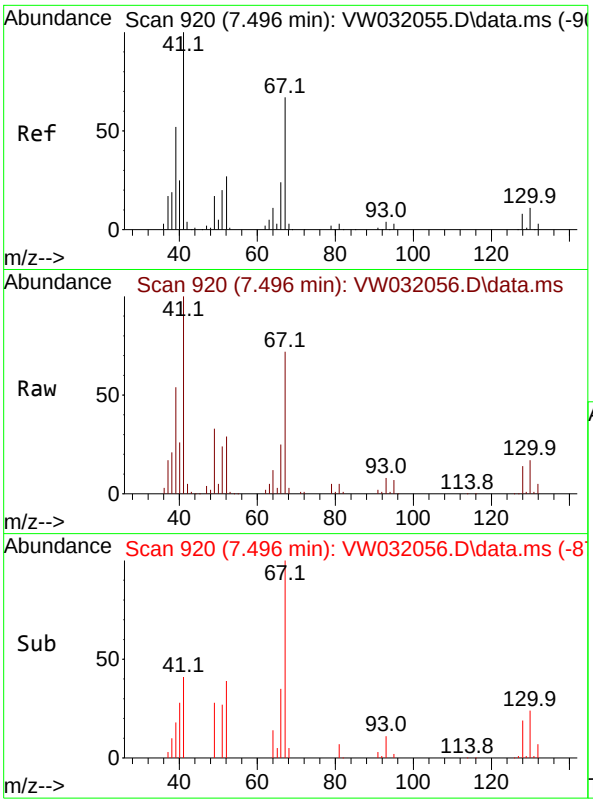




#40
Benzene
Concen: 96.444 ug/l
RT: 8.331 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 78 Resp: 1160107

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.0 | 18.4 | 27.6 |



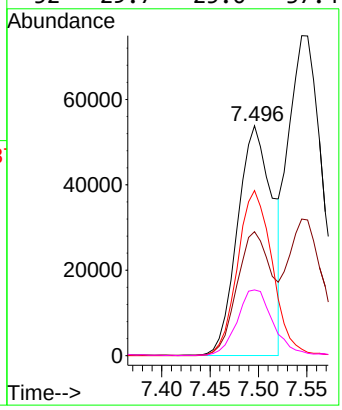


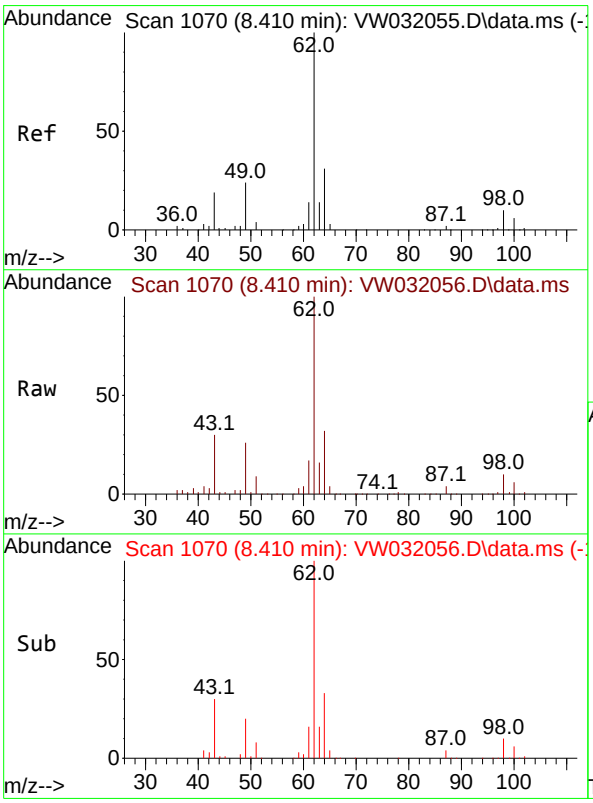

#41
Methacrylonitrile
Concen: 105.048 ug/l
RT: 7.496 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion: 41 Resp: 135773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 53.6 | 42.6 | 63.8 |
| 67 | 71.7 | 61.0 | 91.4 |
| 52 | 29.7 | 25.0 | 37.4 |

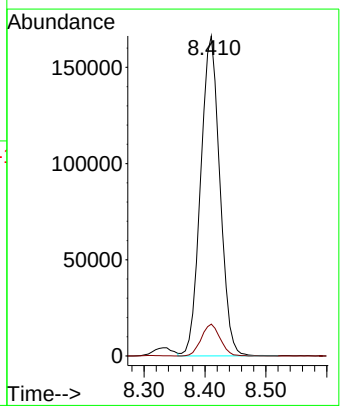


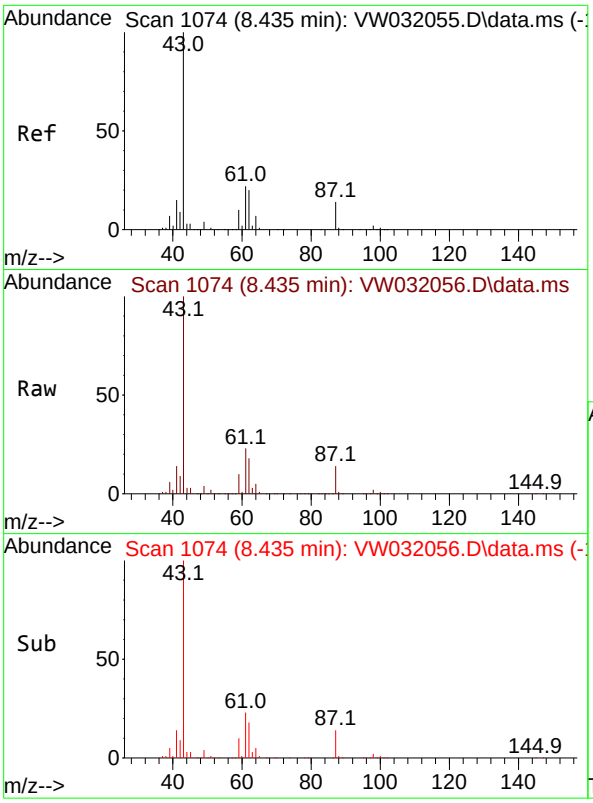




#42
1,2-Dichloroethane
Concen: 94.743 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 62 Resp: 364674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.8 | 0.0 | 19.8 |



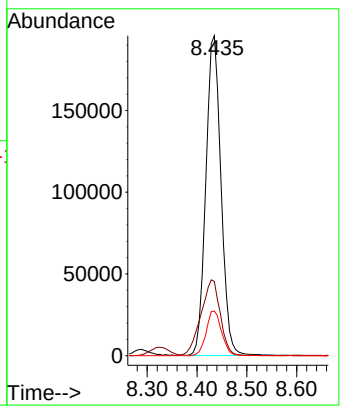


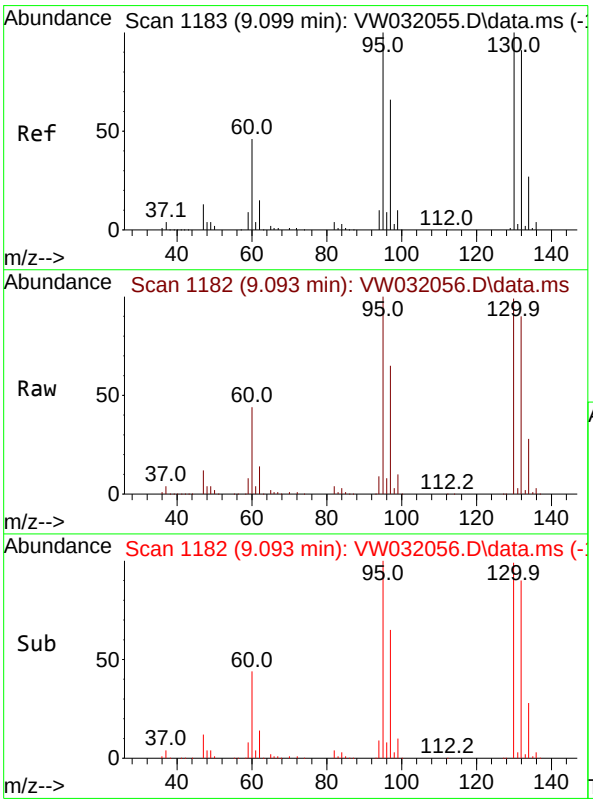

#43
Isopropyl Acetate
Concen: 98.543 ug/l
RT: 8.435 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion: 43 Resp: 413211

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 30.0 | 23.8 | 35.8 |
| 87 | 14.2 | 11.7 | 17.5 |

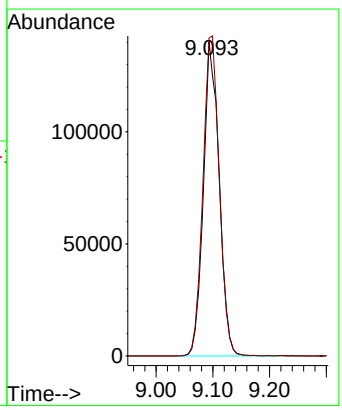


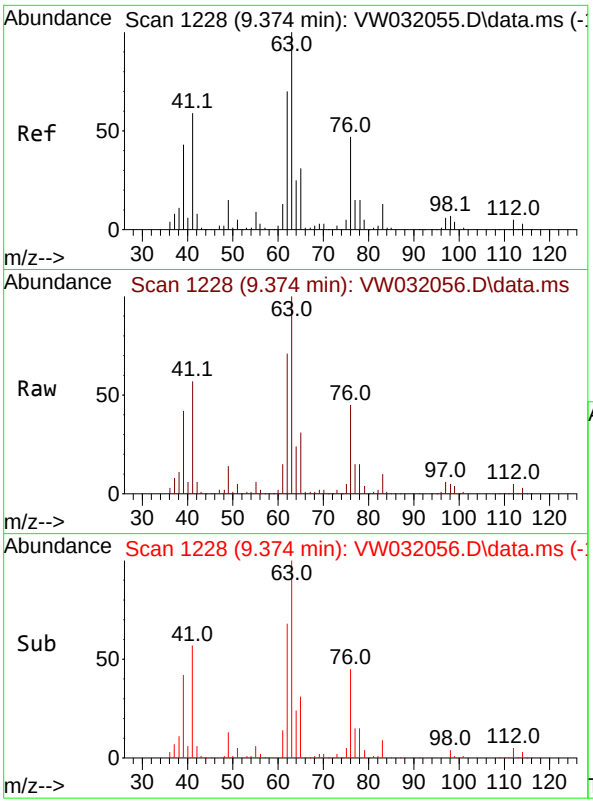




#44
Trichloroethene
Concen: 94.602 ug/l
RT: 9.093 min Scan# 1182
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:130 Resp: 270995

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 101.2 | 0.0 | 200.6 |



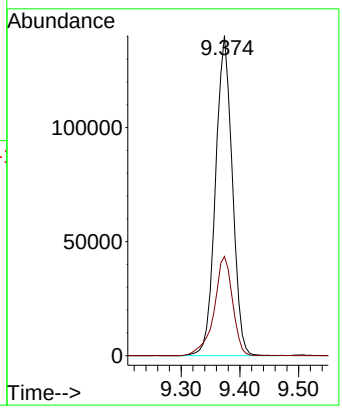


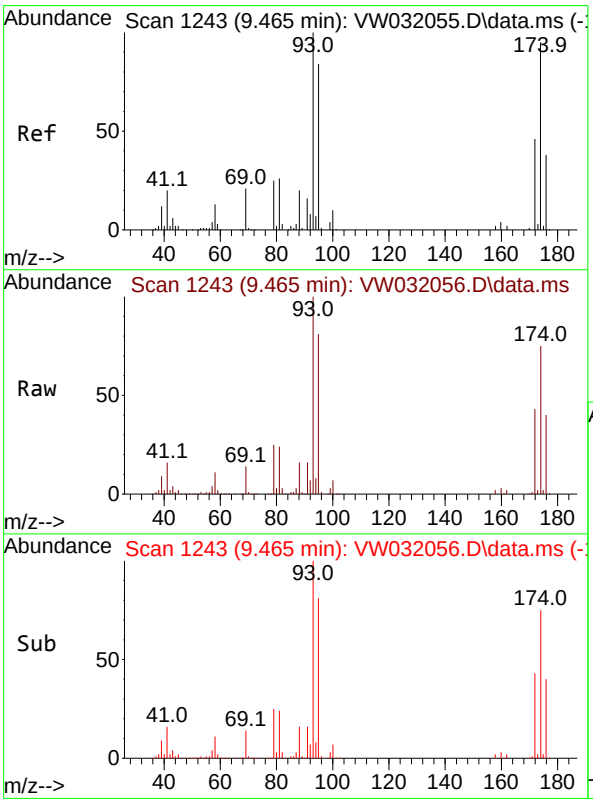

#45
1,2-Dichloropropane
Concen: 95.707 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion: 63 Resp: 278124

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.0 | 24.6 | 36.8 |

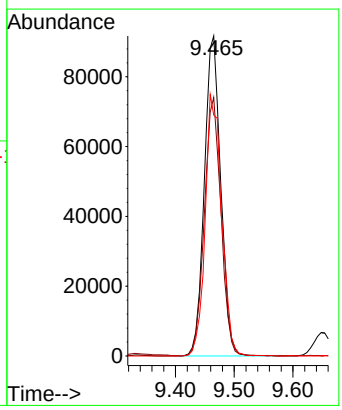


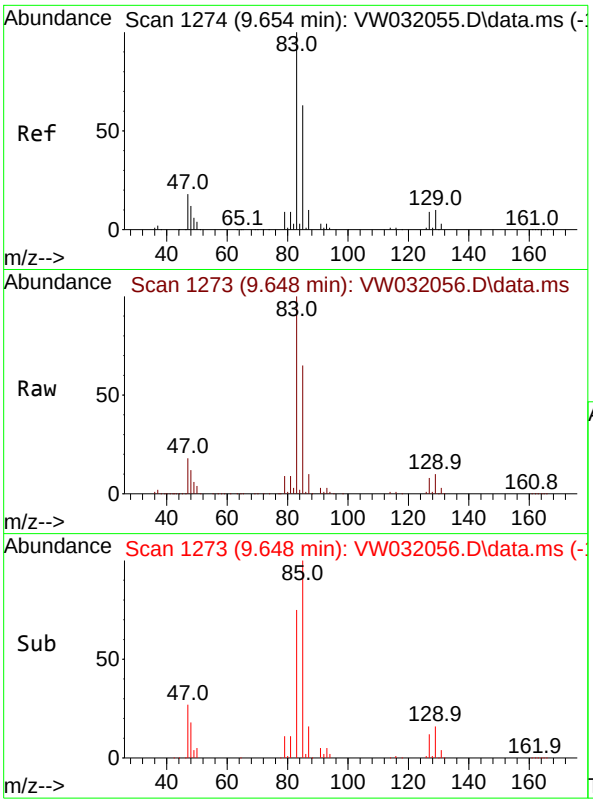




#46
Dibromomethane
Concen: 94.888 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 93 Resp: 177966

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 81.7 | 65.3 | 97.9 |
| 174 | 82.0 | 68.6 | 102.8 |



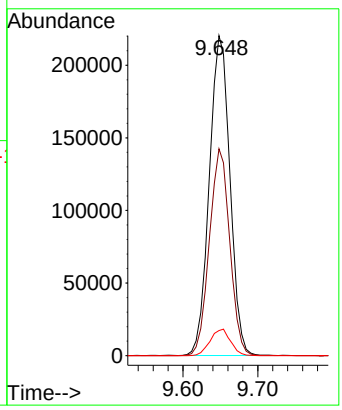


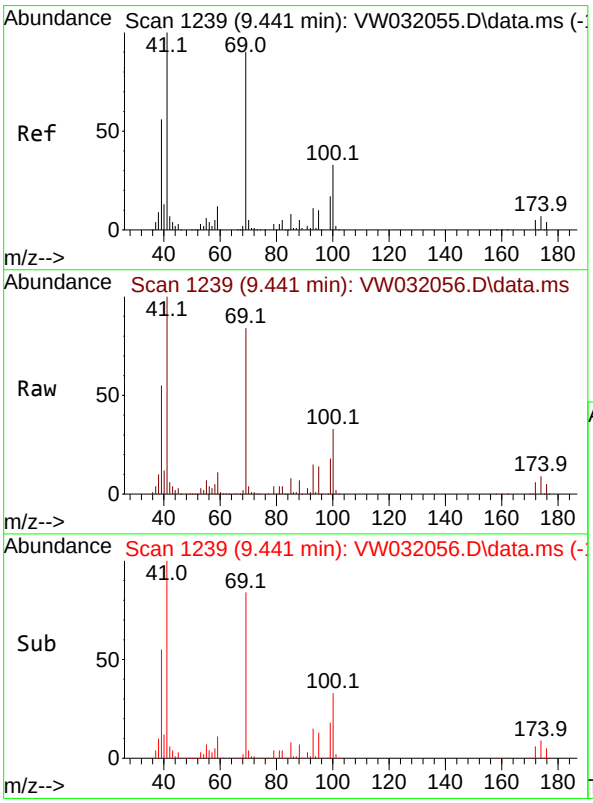

#47
Bromodichloromethane
Concen: 97.867 ug/l
RT: 9.648 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion: 83 Resp: 422958

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.7 | 50.6 | 75.8 |
| 127 | 7.9 | 6.9 | 10.3 |

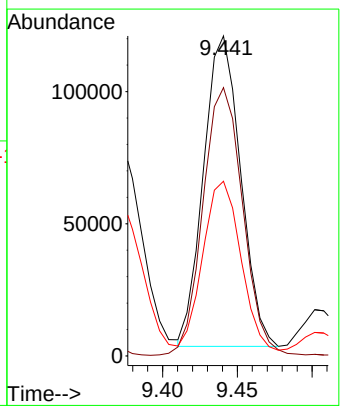


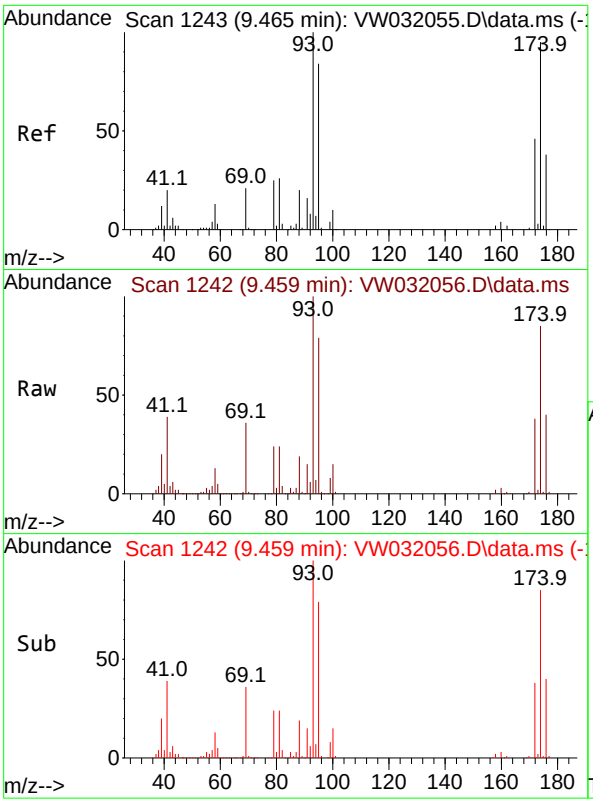




#48
Methyl methacrylate
Concen: 100.098 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 41 Resp: 202632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 93.5 | 73.0 | 109.6 |
| 39 | 55.0 | 45.0 | 67.4 |



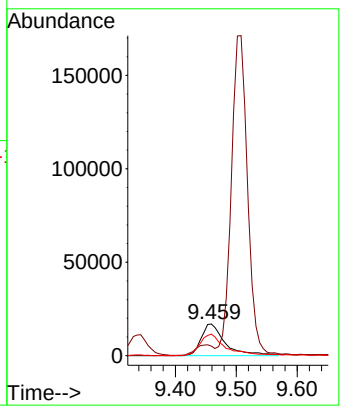


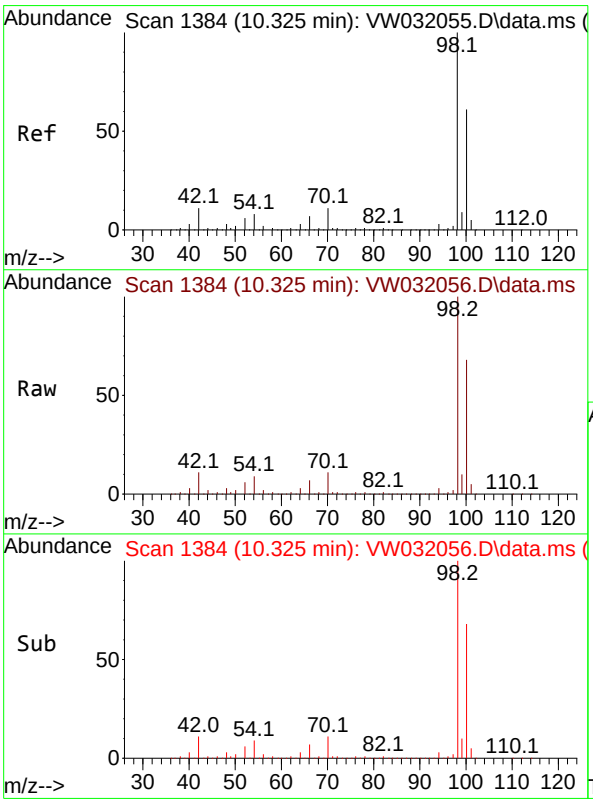

#49
1,4-Dioxane
Concen: 1912.696 ug/l
RT: 9.459 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion: 88 Resp: 46383

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 25.4 | 20.6 | 30.8 |
| 58 | 75.0 | 60.4 | 90.6 |

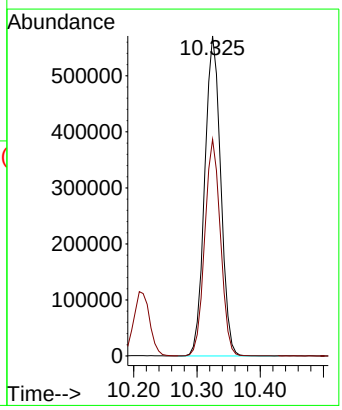


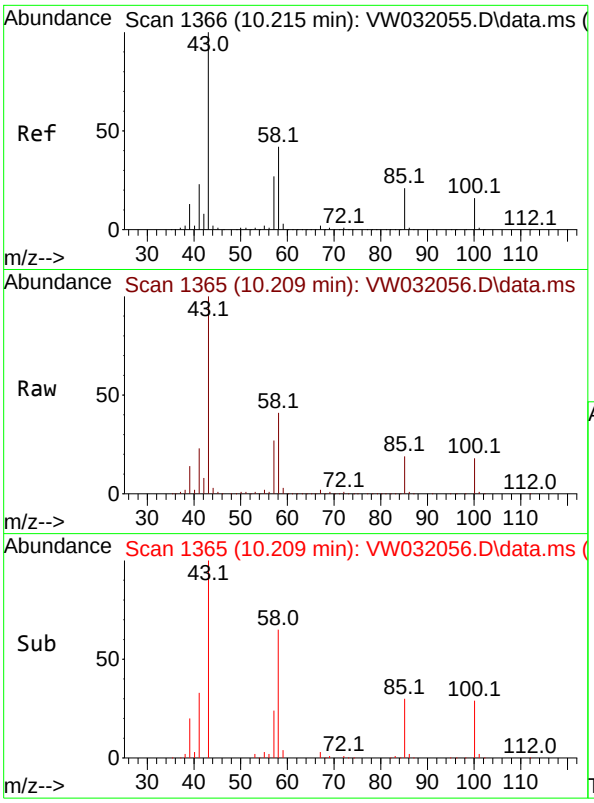




#50
Toluene-d8
Concen: 99.078 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 98 Resp: 1005940

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.3 | 51.1 | 76.7 |



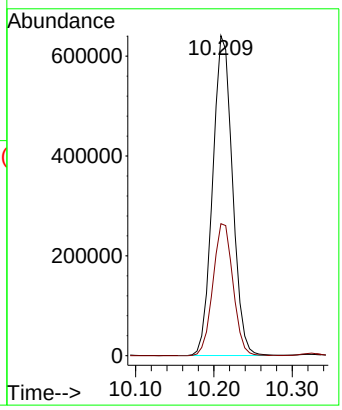


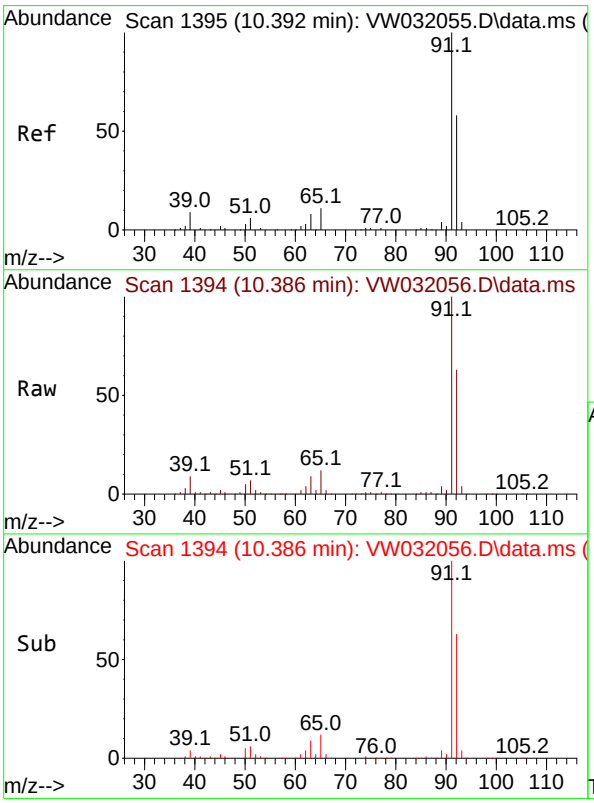

#51
4-Methyl-2-Pentanone
Concen: 476.209 ug/l
RT: 10.209 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion: 43 Resp: 1127080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 41.9 | 33.1 | 49.7 |

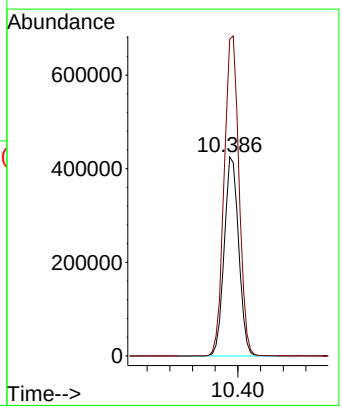


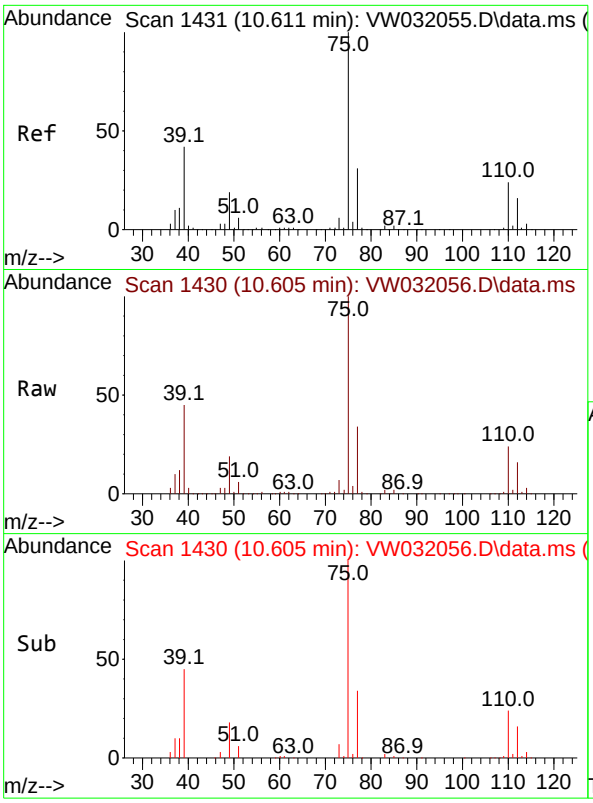




#52
Toluene
Concen: 99.464 ug/l
RT: 10.386 min Scan# 1394
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 92 Resp: 753592

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 165.0 | 136.3 | 204.5 |



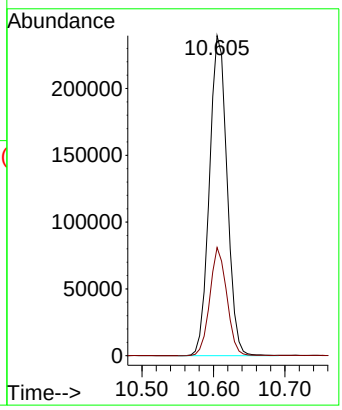


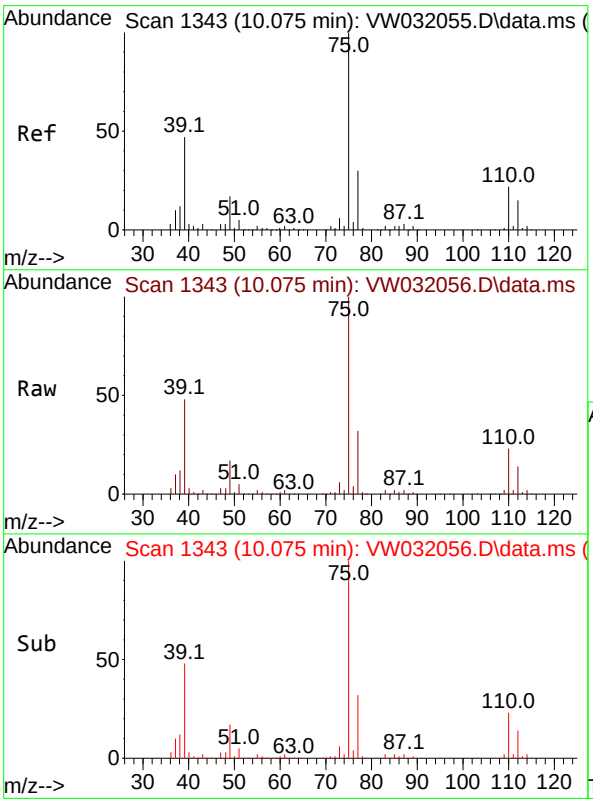

#53
t-1,3-Dichloropropene
Concen: 101.442 ug/l
RT: 10.605 min Scan# 14
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion: 75 Resp: 410734

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 33.8 | 25.0 | 37.6 |

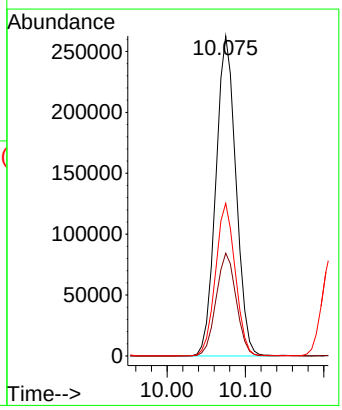


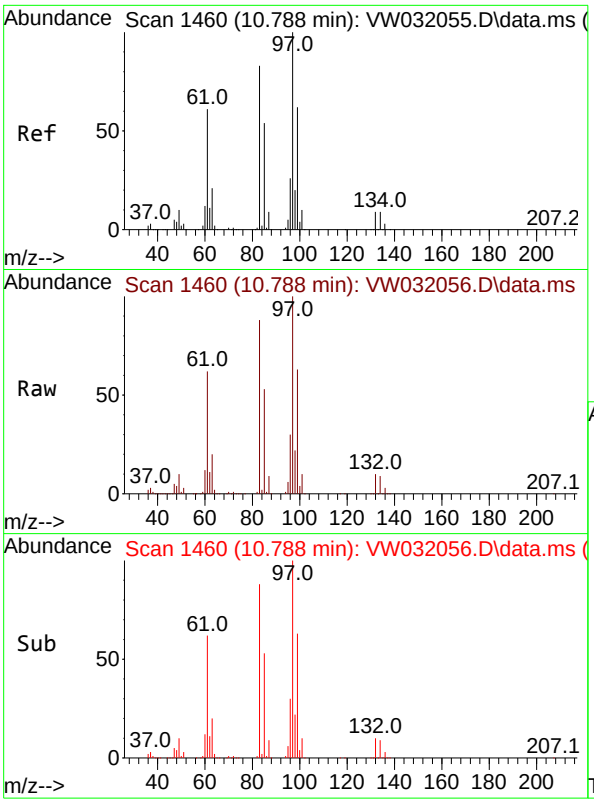




#54
cis-1,3-Dichloropropene
Concen: 102.096 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 75 Resp: 468972

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.1 | 24.0 | 36.0 |
| 39 | 47.6 | 37.8 | 56.8 |



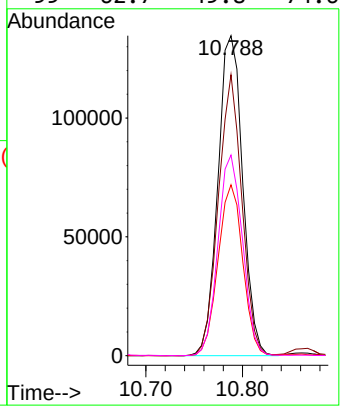


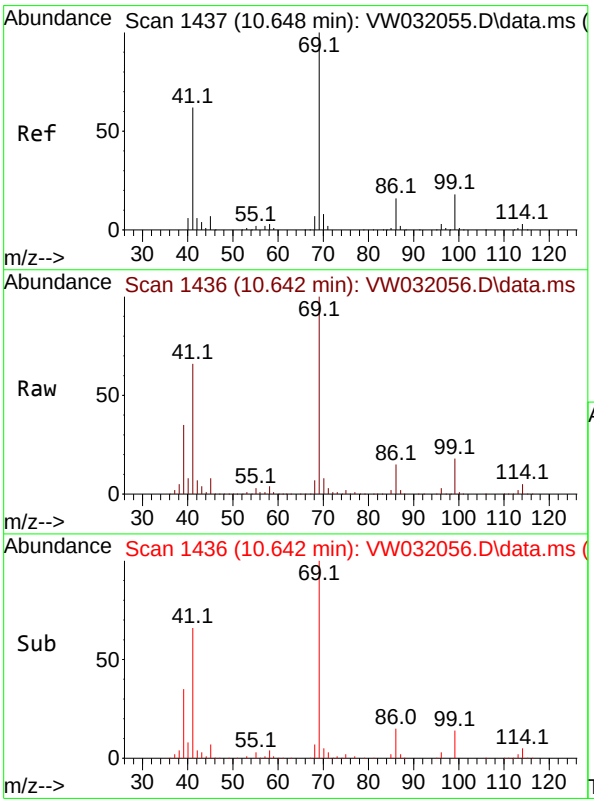

#55
1,1,2-Trichloroethane
Concen: 96.099 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion: 97 Resp: 239507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 87.8 | 66.4 | 99.6 |
| 85 | 53.4 | 43.1 | 64.7 |
| 99 | 62.7 | 49.8 | 74.6 |

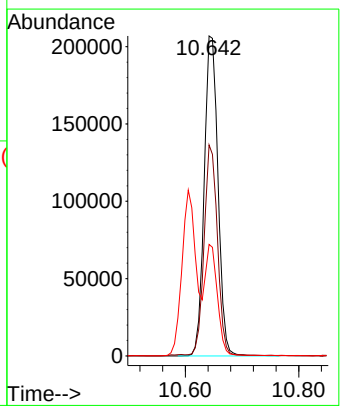


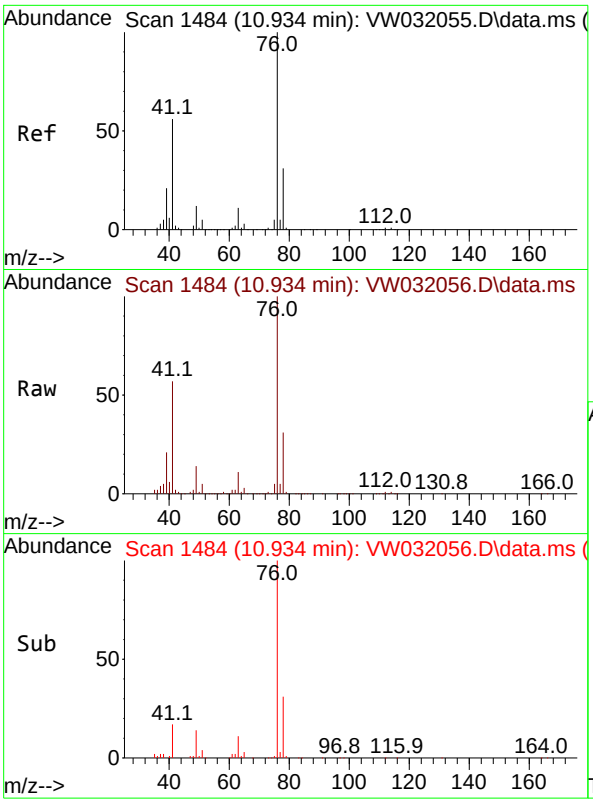




#56
Ethyl methacrylate
Concen: 104.477 ug/l
RT: 10.642 min Scan# 1436
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 69 Resp: 348446

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 64.5 | 51.2 | 76.8 |
| 39 | 30.2 | 25.4 | 38.0 |



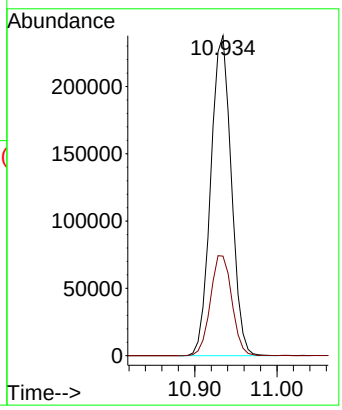


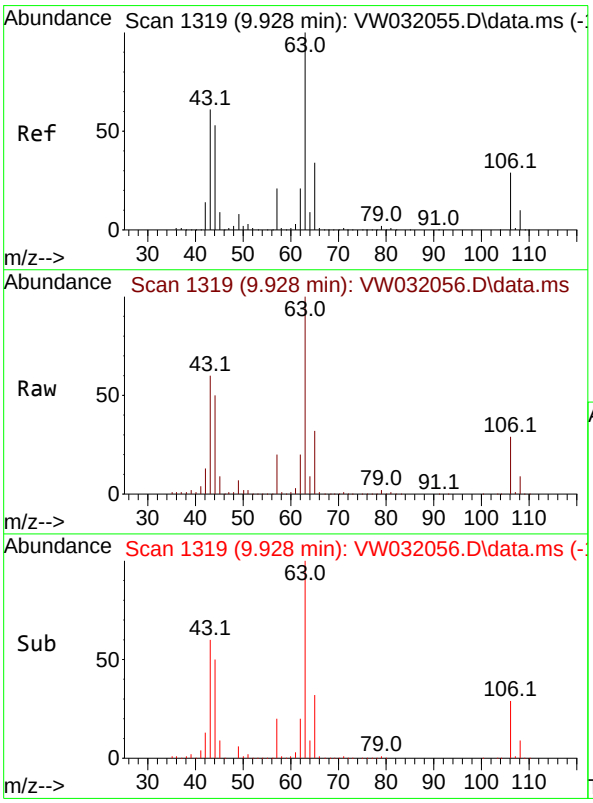

#57
1,3-Dichloropropane
Concen: 95.056 ug/l
RT: 10.934 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion: 76 Resp: 412949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.7 | 25.8 | 38.6 |

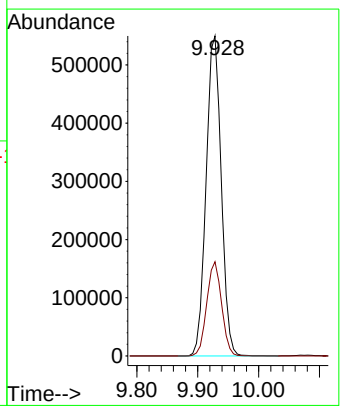


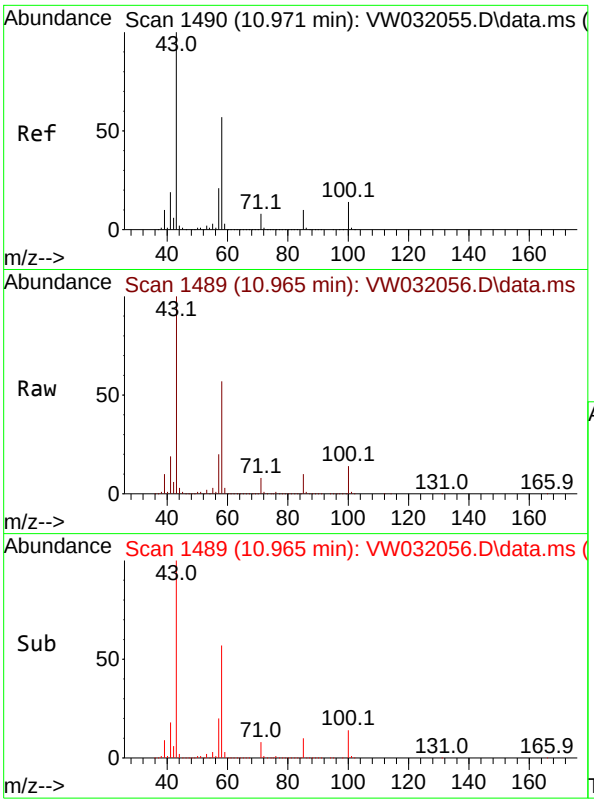




#58
2-Chloroethyl Vinyl ether
Concen: 513.956 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 63 Resp: 948129

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 28.9 | 23.5 | 35.3 |



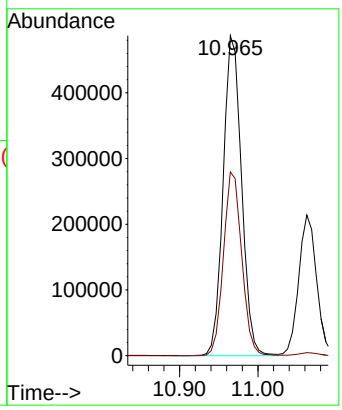


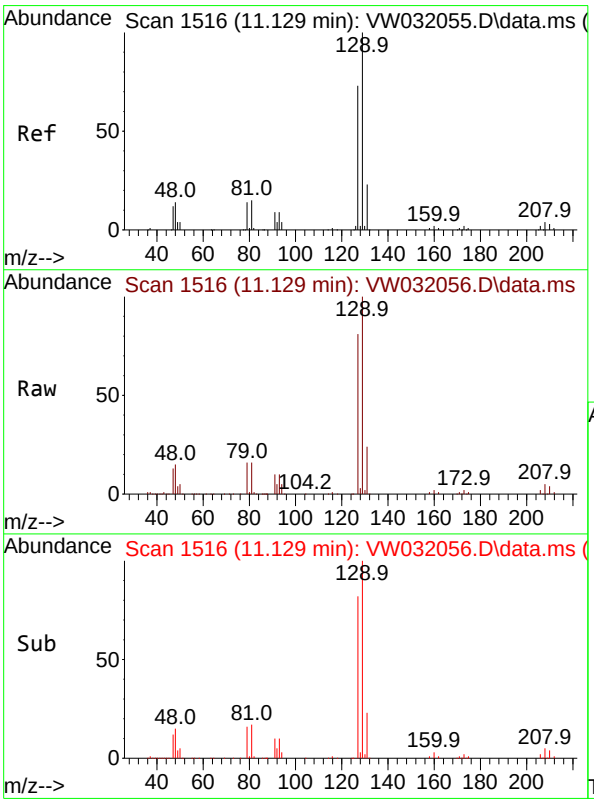

#59
2-Hexanone
Concen: 484.283 ug/l
RT: 10.965 min Scan# 14
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion: 43 Resp: 793810

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 57.2 | 28.3 | 85.0 |

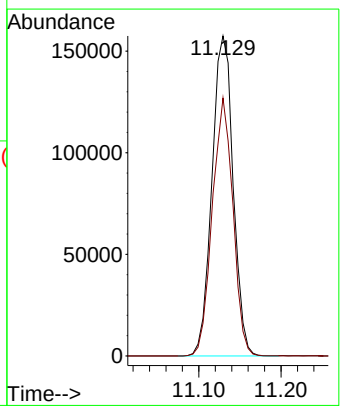


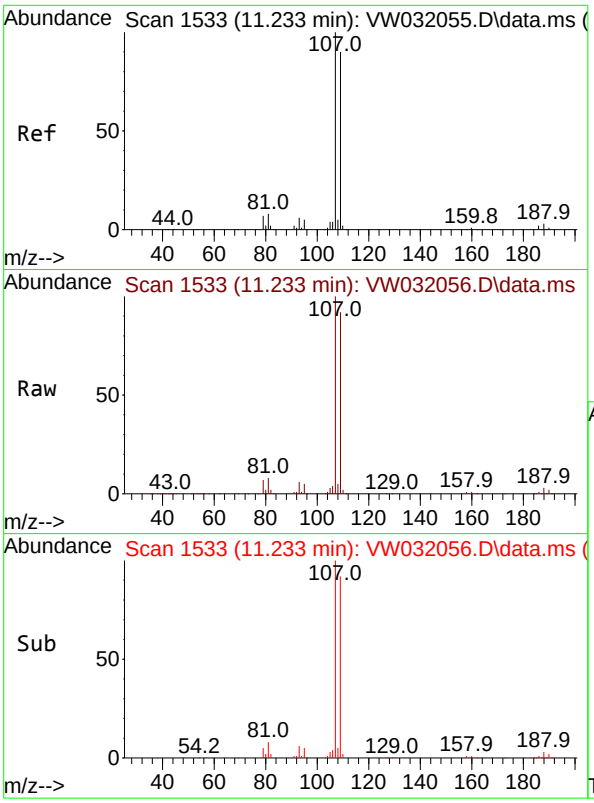




#60
Dibromochloromethane
Concen: 99.074 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:129 Resp: 282060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.5 | 39.0 | 116.9 |



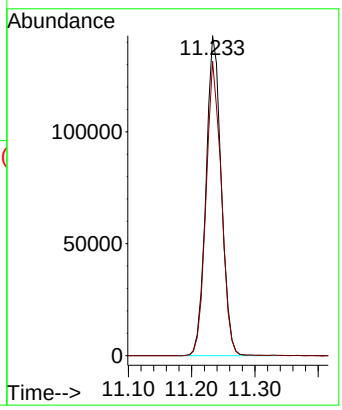


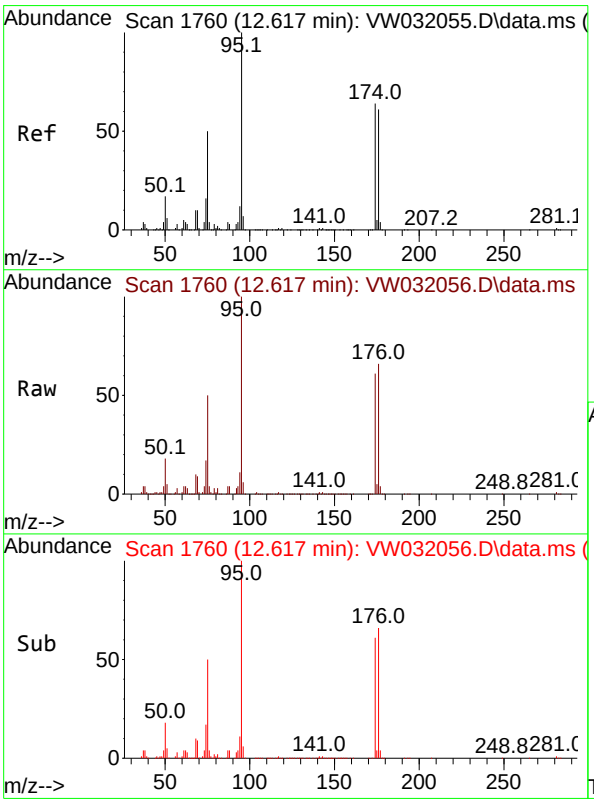

#61
1,2-Dibromoethane
Concen: 99.317 ug/l
RT: 11.233 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion:107 Resp: 240542

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 92.1 | 74.2 | 111.4 |

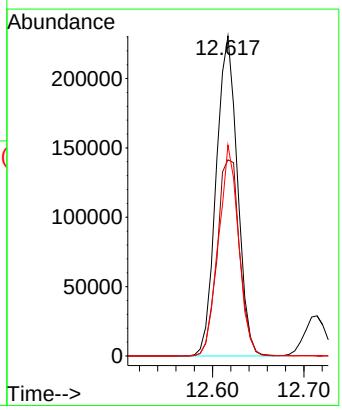


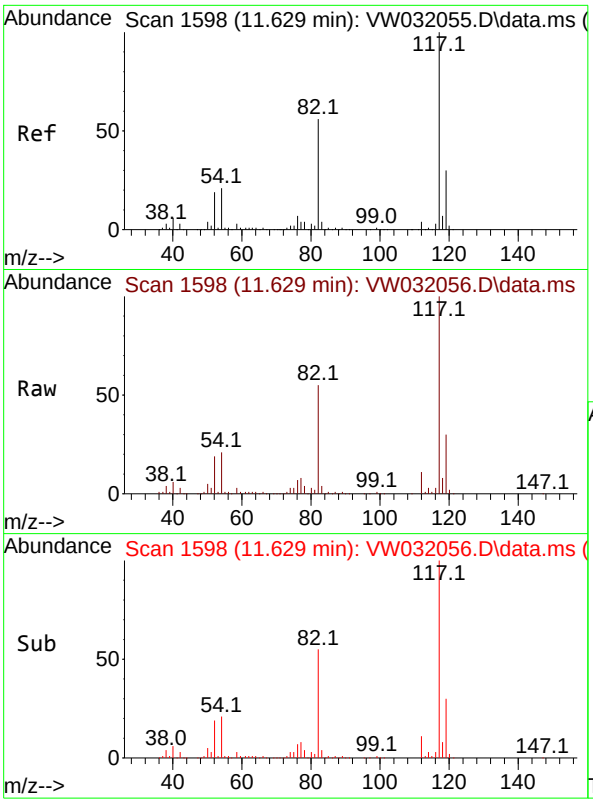




#62
4-Bromofluorobenzene
Concen: 99.536 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 95 Resp: 372416

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 65.2 | 0.0 | 129.0 |
| 176 | 62.8 | 0.0 | 124.6 |



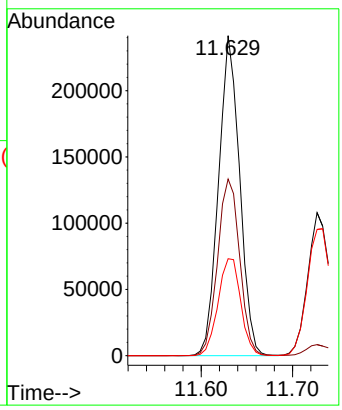


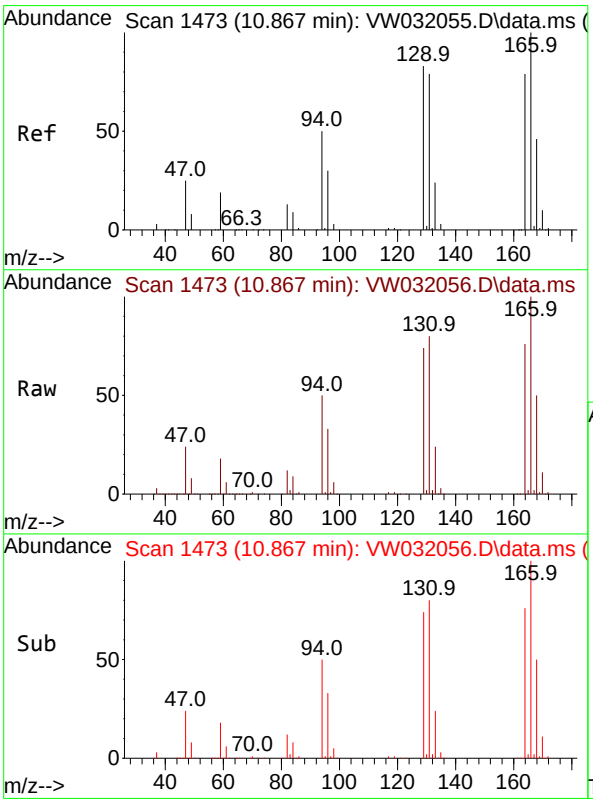

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion:117 Resp: 387705

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 55.2 | 45.0 | 67.4 |
| 119 | 30.3 | 24.2 | 36.4 |

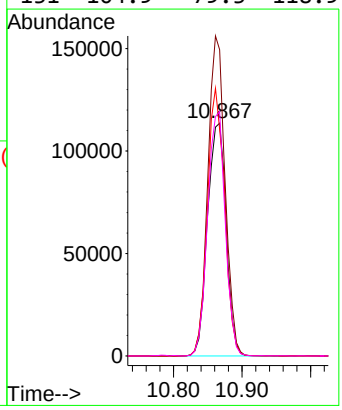


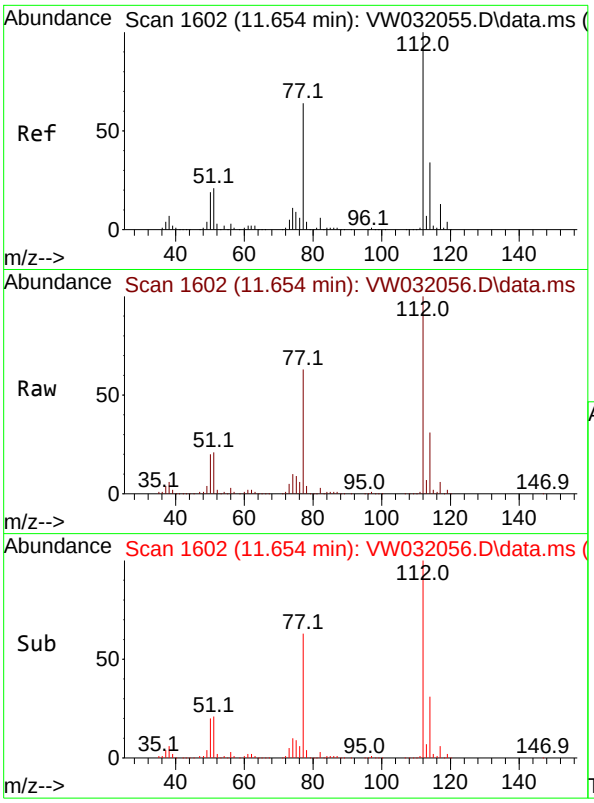




#64
Tetrachloroethene
Concen: 95.247 ug/l
RT: 10.867 min Scan# 1473
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:164 Resp: 213297

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 131.5 | 100.9 | 151.3 |
| 129 | 97.3 | 83.6 | 125.4 |
| 131 | 104.9 | 79.3 | 118.9 |



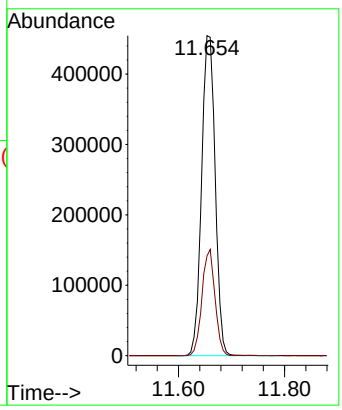


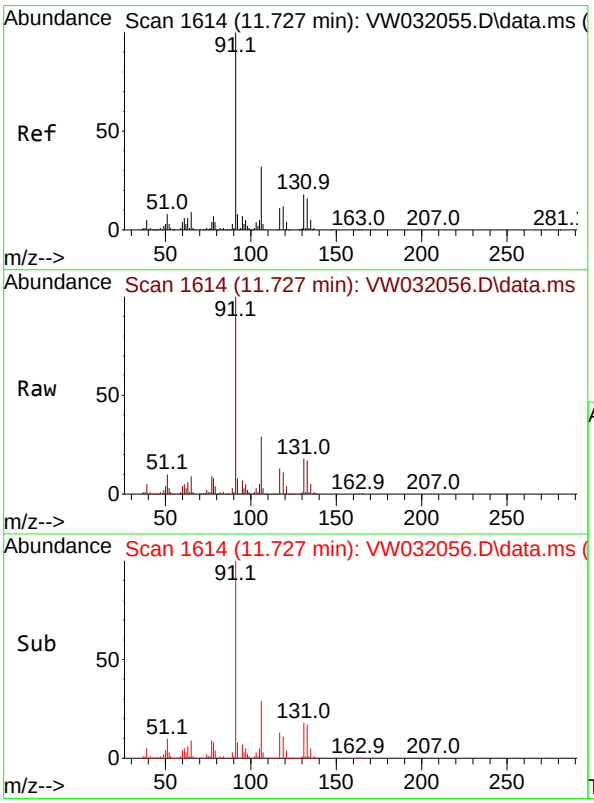

#65
Chlorobenzene
Concen: 95.819 ug/l
RT: 11.654 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion:112 Resp: 808609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.1 | 26.9 | 40.3 |

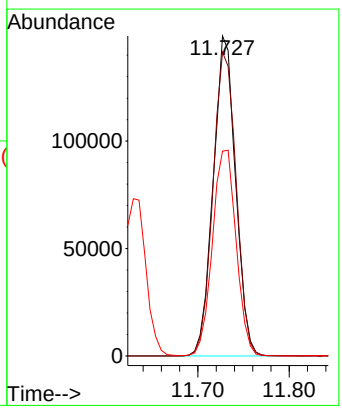


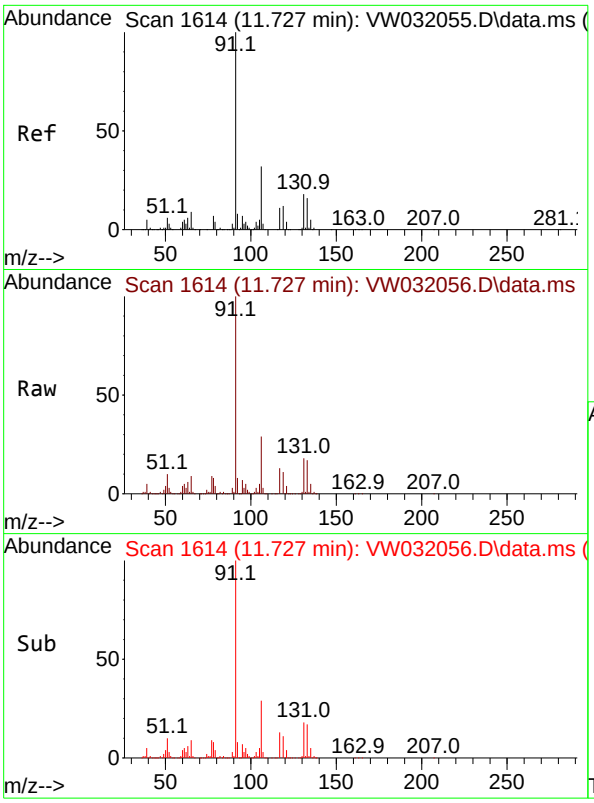




#66
1,1,1,2-Tetrachloroethane
Concen: 96.197 ug/l
RT: 11.727 min Scan# 1614
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:131 Resp: 253284

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 98.6 | 47.3 | 142.0 |
| 119 | 68.3 | 34.5 | 103.5 |



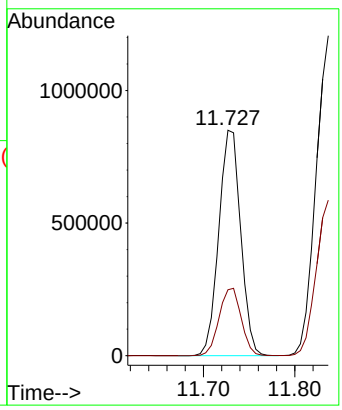


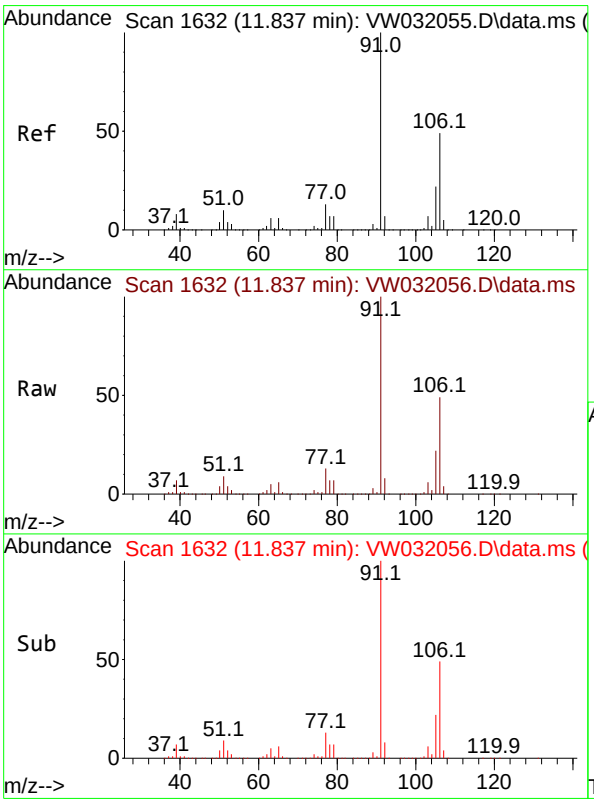

#67
Ethyl Benzene
Concen: 99.243 ug/l
RT: 11.727 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion: 91 Resp: 1418619

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.3 | 25.4 | 38.0 |

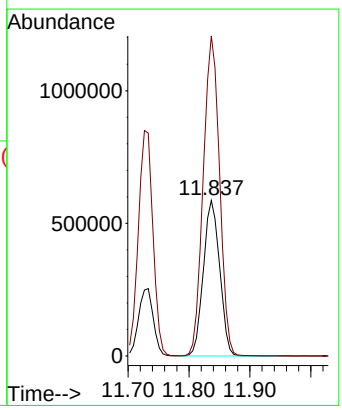


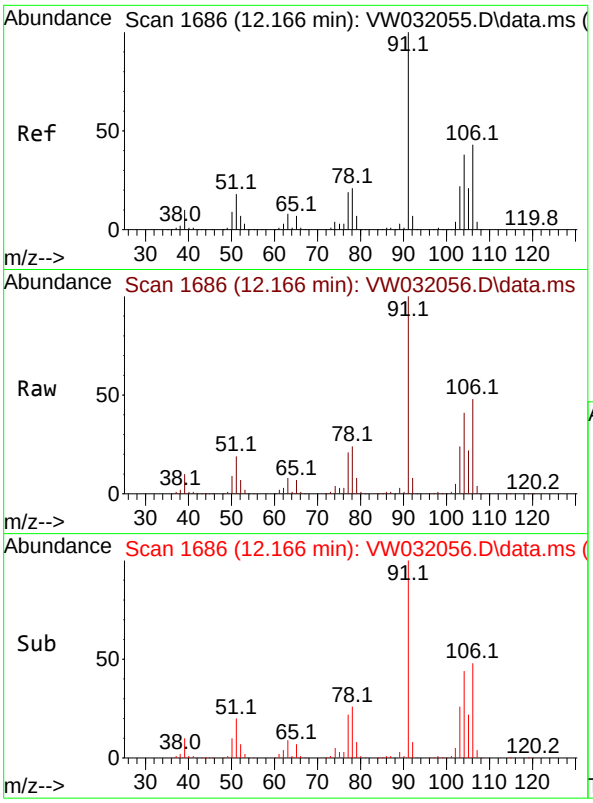




#68
m/p-Xylenes
Concen: 197.459 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:106 Resp: 1089143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 206.7 | 162.2 | 243.2 |



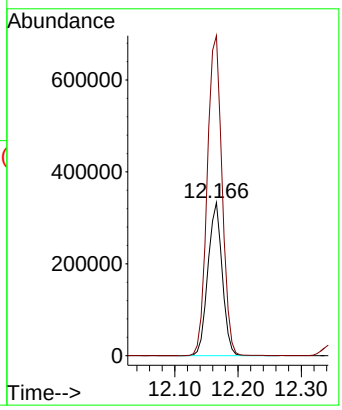


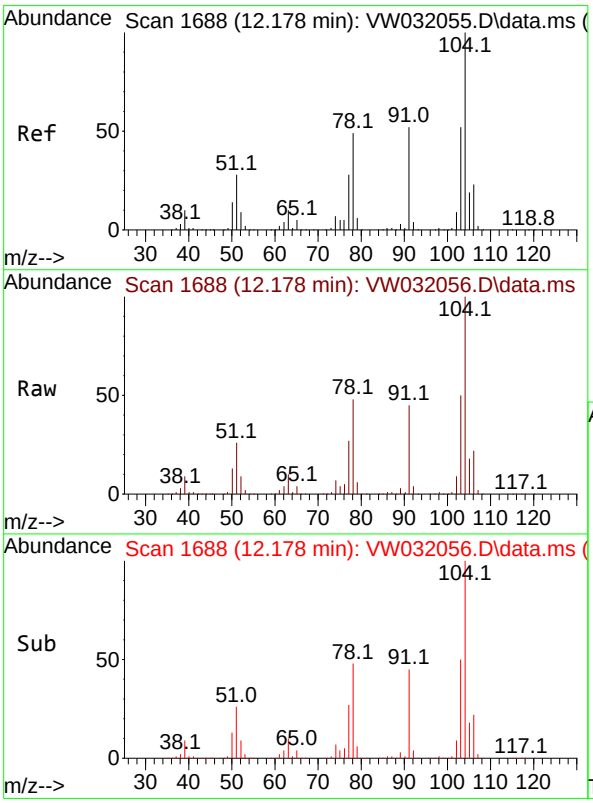

#69
o-Xylene
Concen: 102.652 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion:106 Resp: 523329

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 216.8 | 110.8 | 332.3 |

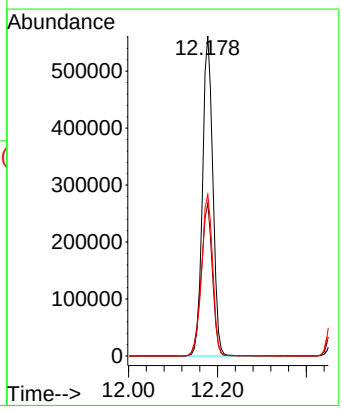


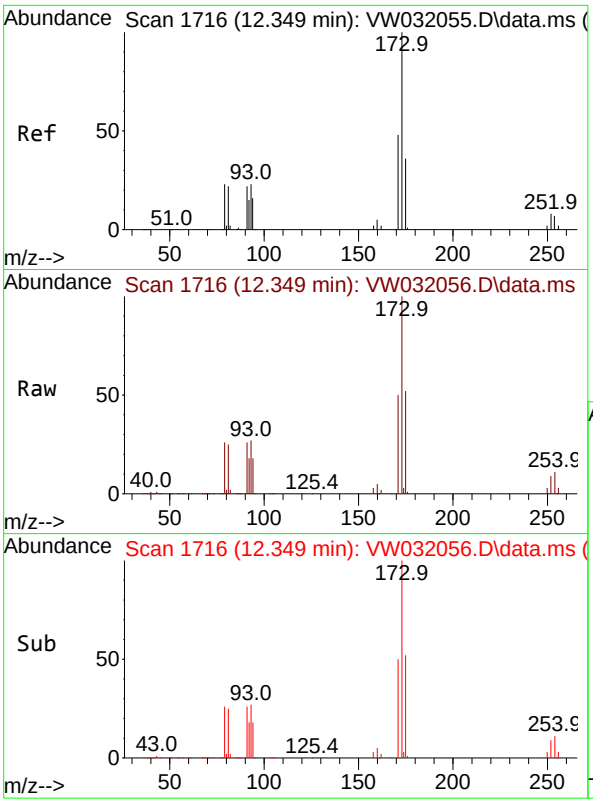




#70
Styrene
Concen: 101.158 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:104 Resp: 916019

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 51.3 | 41.2 | 61.8 |
| 103 | 54.3 | 43.8 | 65.8 |



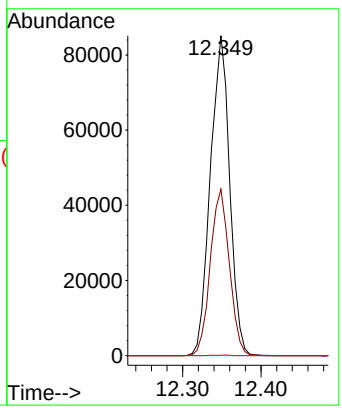


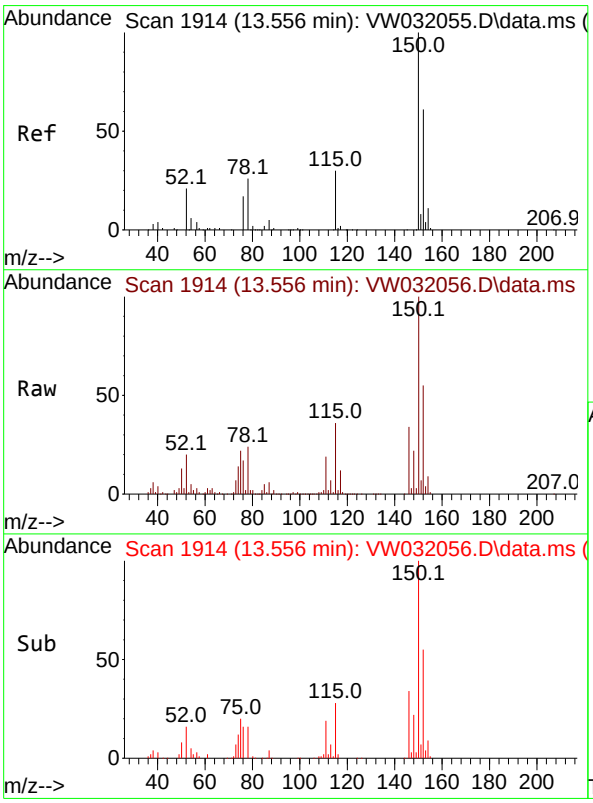

#71
Bromoform
Concen: 96.794 ug/l
RT: 12.349 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion:173 Resp: 145781

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 51.3 | 22.9 | 68.7 |
| 254 | 0.2 | 0.0 | 0.0# |

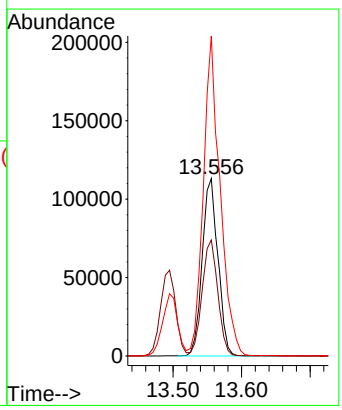


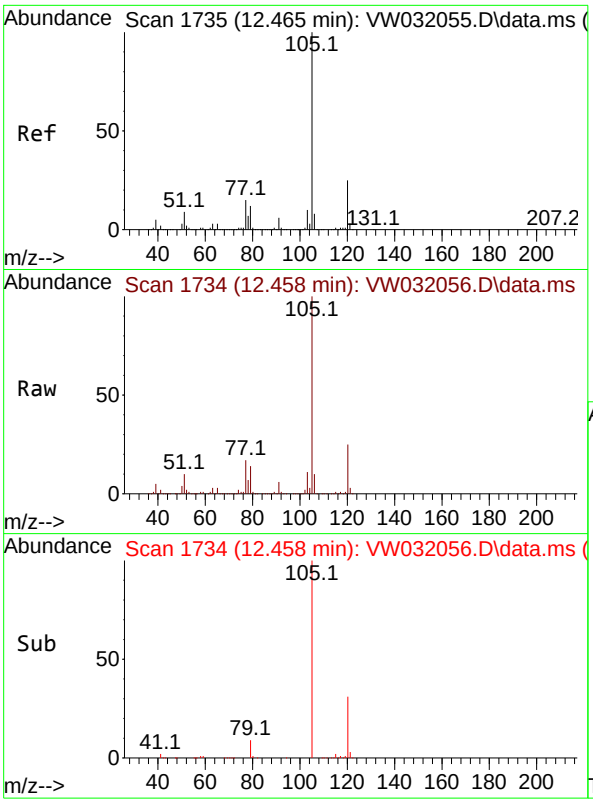




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:152 Resp: 180763

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 65.1 | 32.6 | 97.8 |
| 150 | 191.5 | 0.0 | 359.4 |



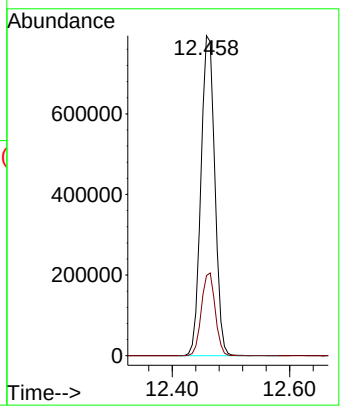


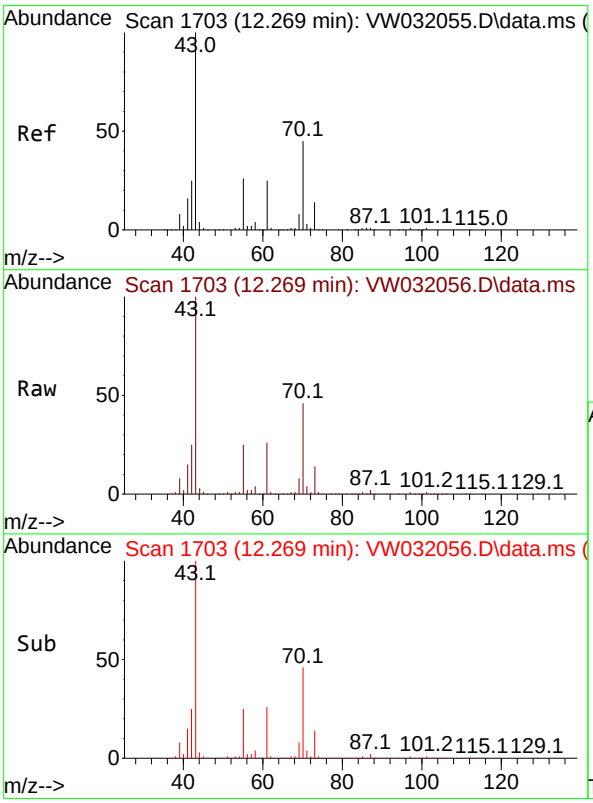

#73
Isopropylbenzene
Concen: 102.870 ug/l
RT: 12.458 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion:105 Resp: 1299533

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.7 | 12.8 | 38.4 |

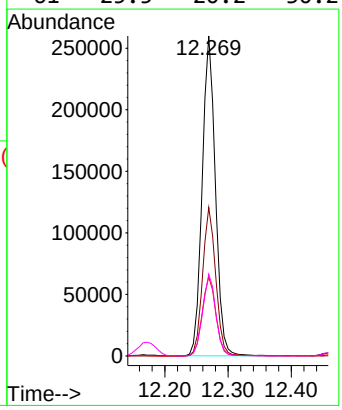


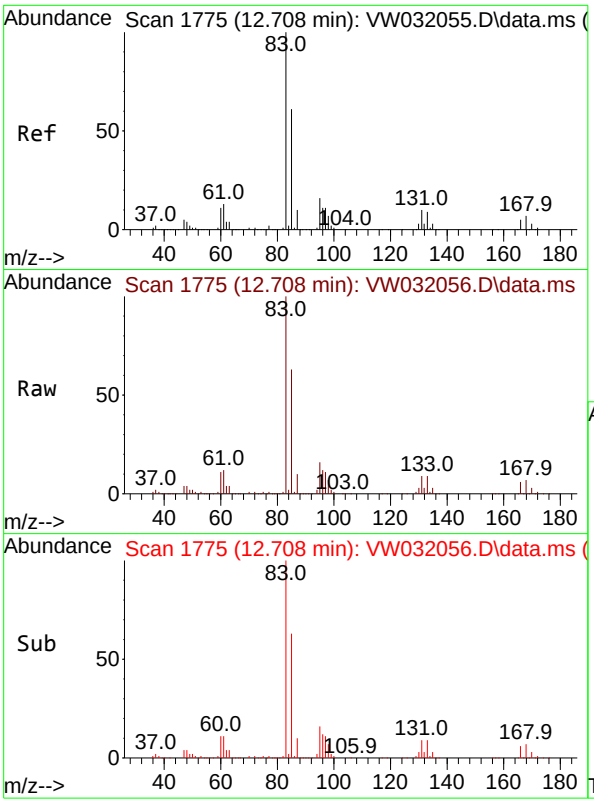




#74
N-amyl acetate
Concen: 104.494 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 43 Resp: 378722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 46.3 | 37.0 | 55.4 |
| 55 | 25.5 | 21.1 | 31.7 |
| 61 | 25.5 | 20.2 | 30.2 |



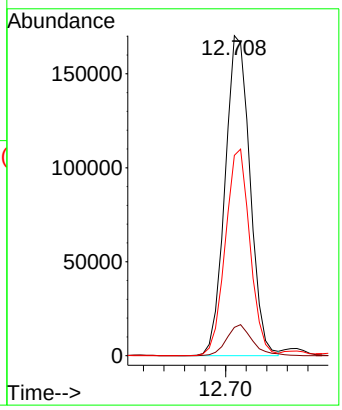


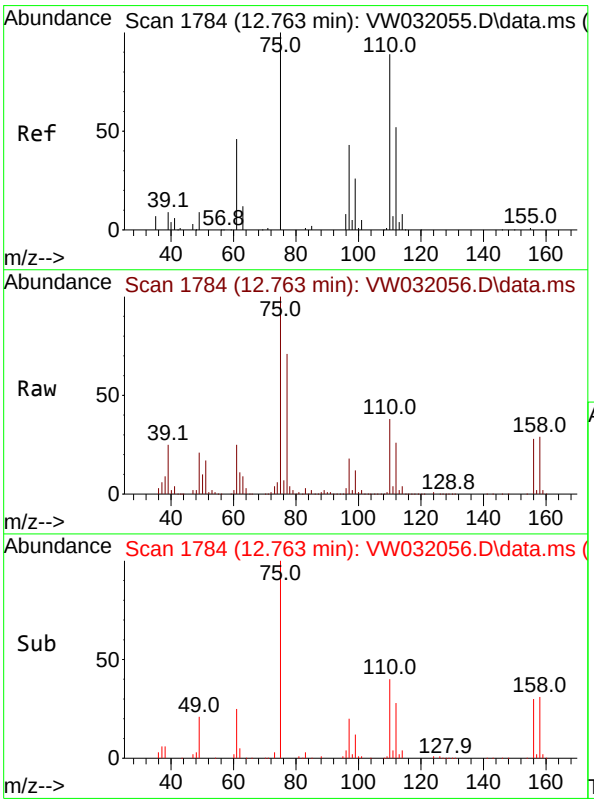

#75
1,1,2,2-Tetrachloroethane
Concen: 95.677 ug/l
RT: 12.708 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion: 83 Resp: 286977

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.0 | 5.1 | 15.4 |
| 85 | 63.9 | 32.2 | 96.6 |

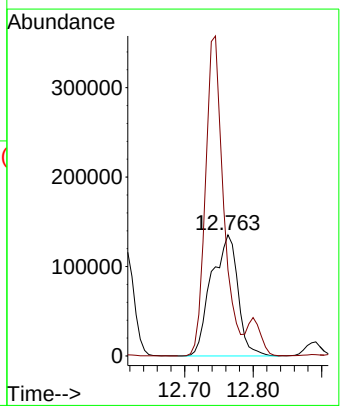


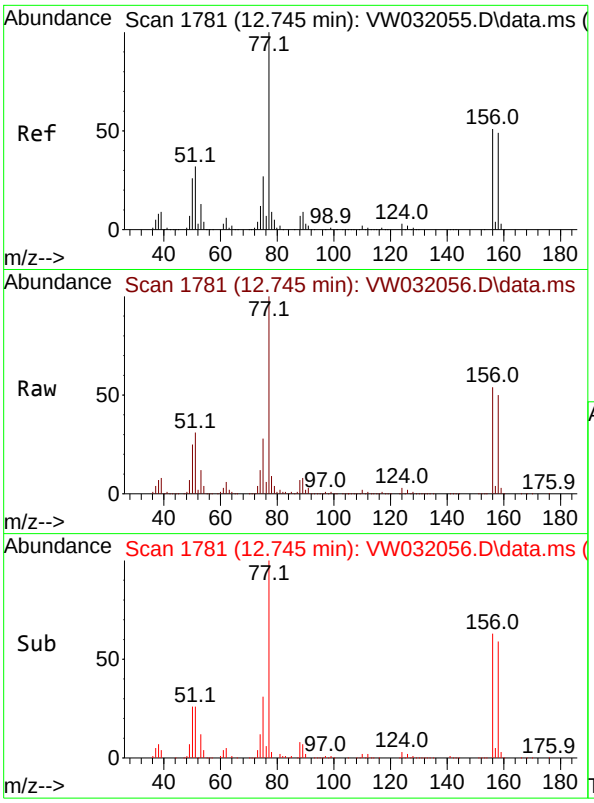




#76
1,2,3-Trichloropropane
Concen: 130.728 ug/l
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 75 Resp: 363264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 179.3 | 123.5 | 370.5 |



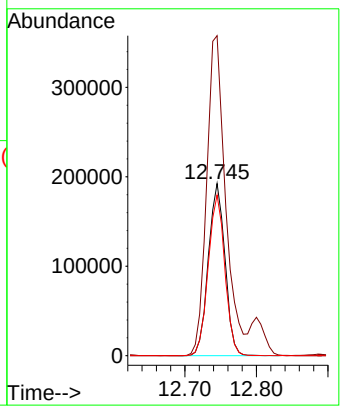


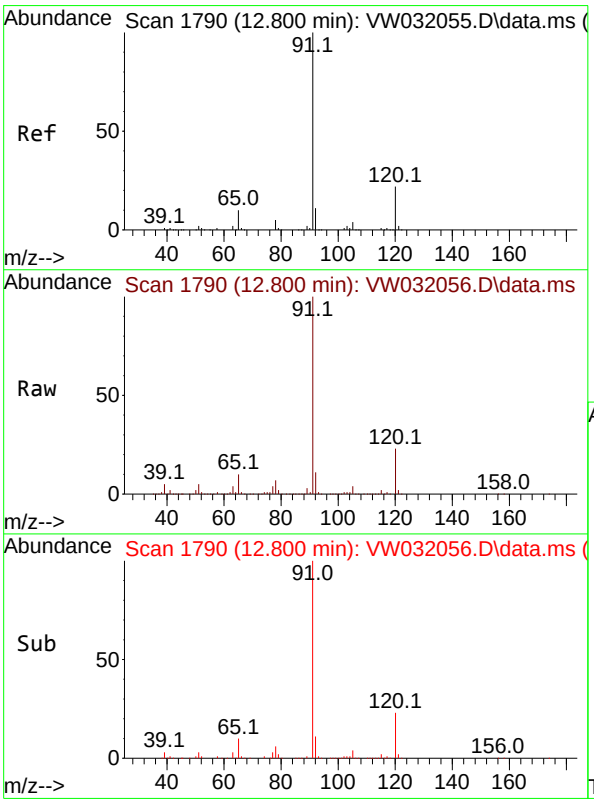

#77
Bromobenzene
Concen: 103.091 ug/l
RT: 12.745 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion:156 Resp: 311049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 209.5 | 108.7 | 326.3 |
| 158 | 93.4 | 48.3 | 144.9 |

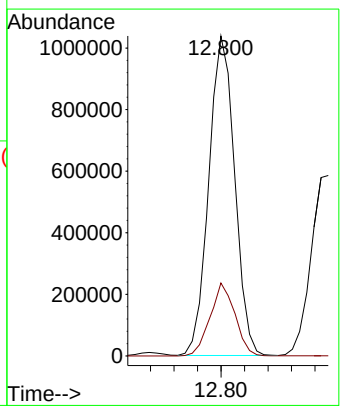


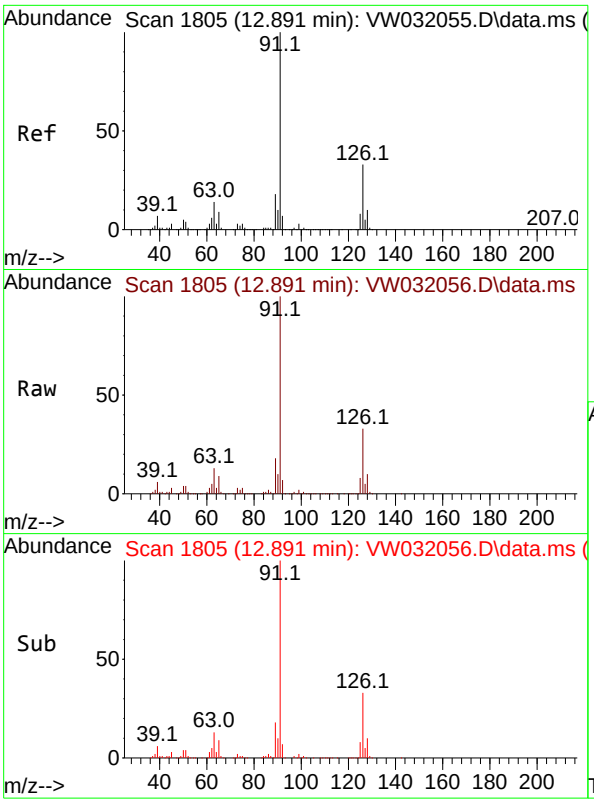




#78
n-propylbenzene
Concen: 102.177 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 91 Resp: 1589147

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 21.9 | 11.1 | 33.3 |



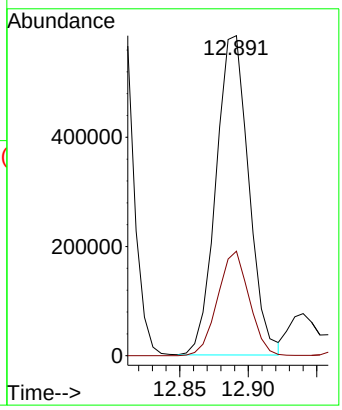


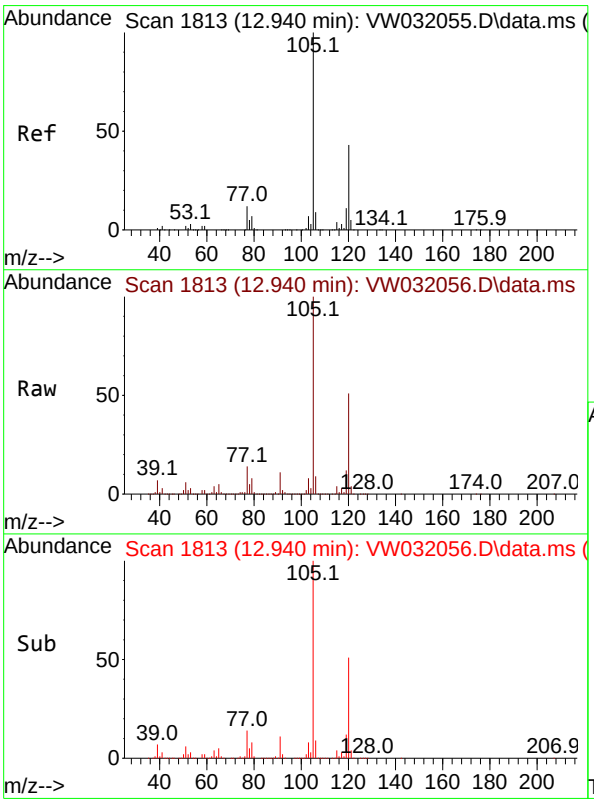

#79
2-Chlorotoluene
Concen: 101.505 ug/l
RT: 12.891 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion: 91 Resp: 974324

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.5 | 15.9 | 47.7 |

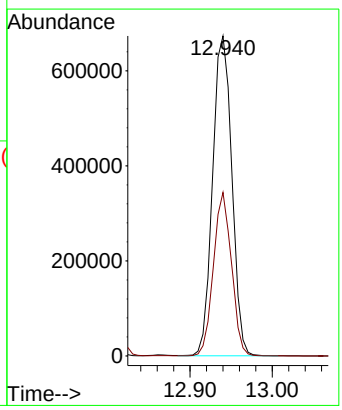


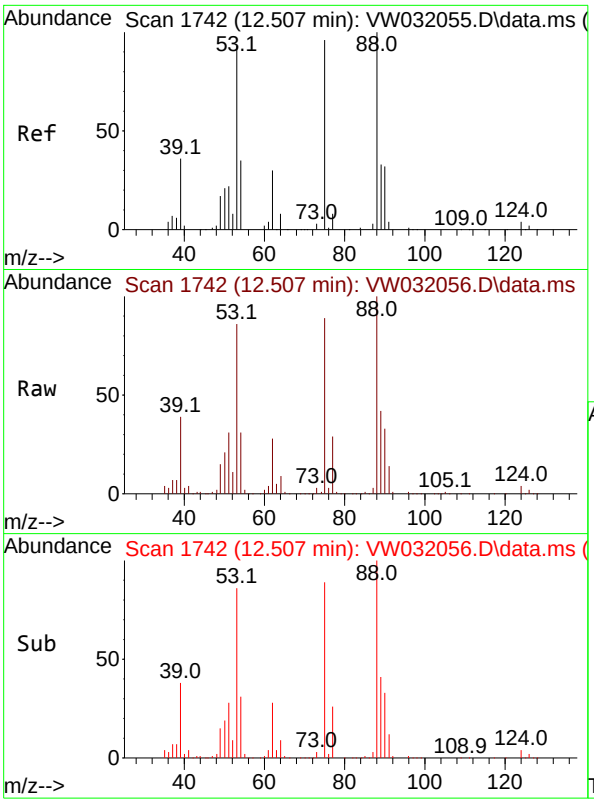




#80
1,3,5-Trimethylbenzene
Concen: 101.912 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:105 Resp: 1092987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.1 | 23.4 | 70.0 |



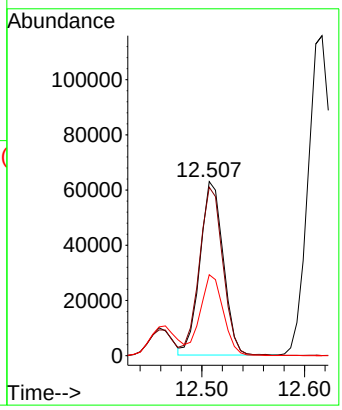


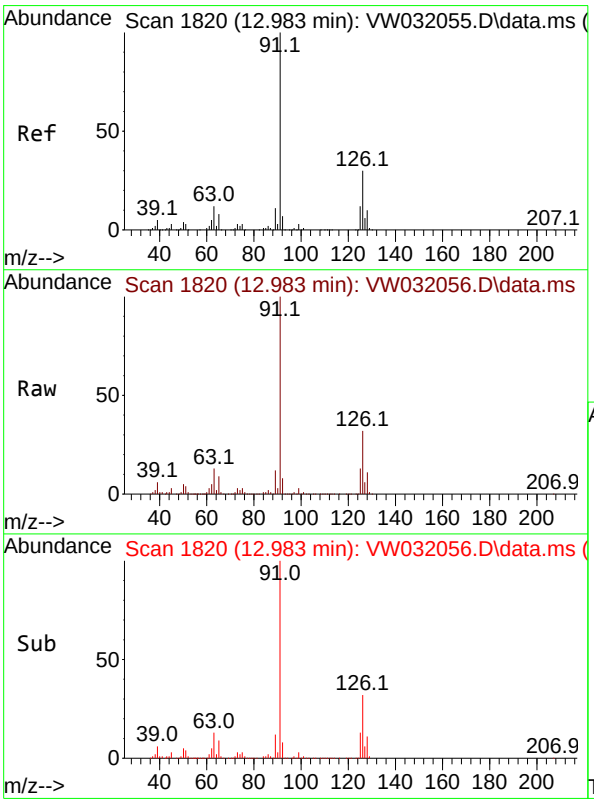

#81
trans-1,4-Dichloro-2-butene
Concen: 104.370 ug/l
RT: 12.507 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion: 75 Resp: 98906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 99.2 | 81.0 | 121.6 |
| 89 | 46.2 | 37.3 | 55.9 |

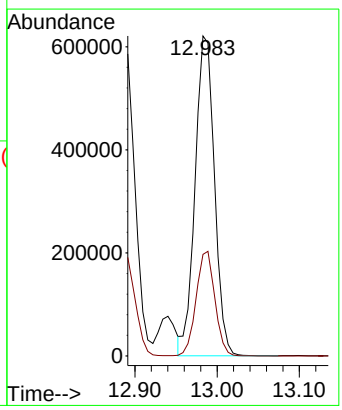


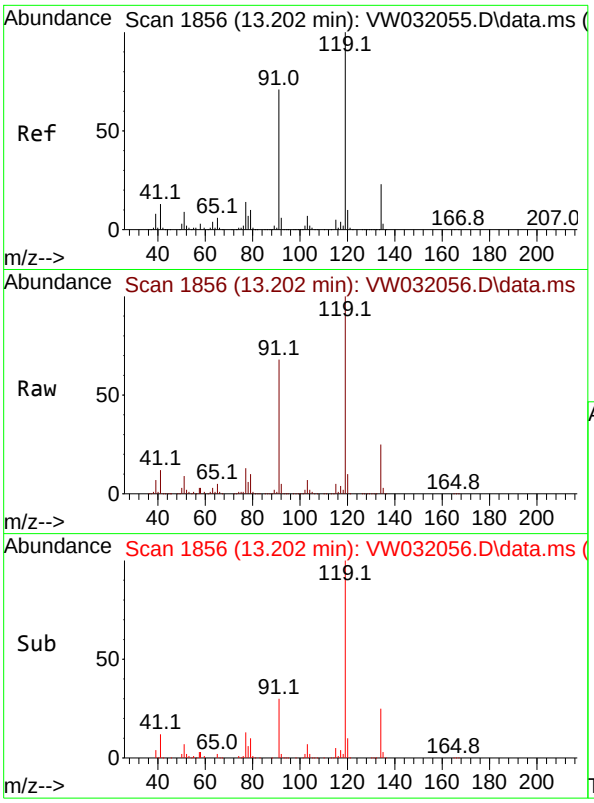




#82
4-Chlorotoluene
Concen: 99.412 ug/l
RT: 12.983 min Scan# 1820
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 91 Resp: 1013836

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.8 | 15.5 | 46.5 |



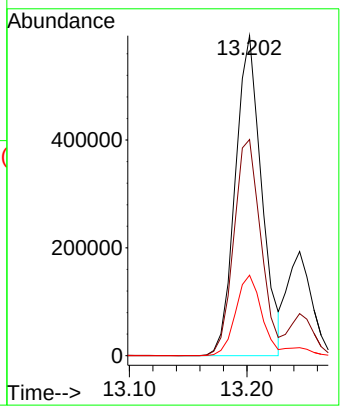


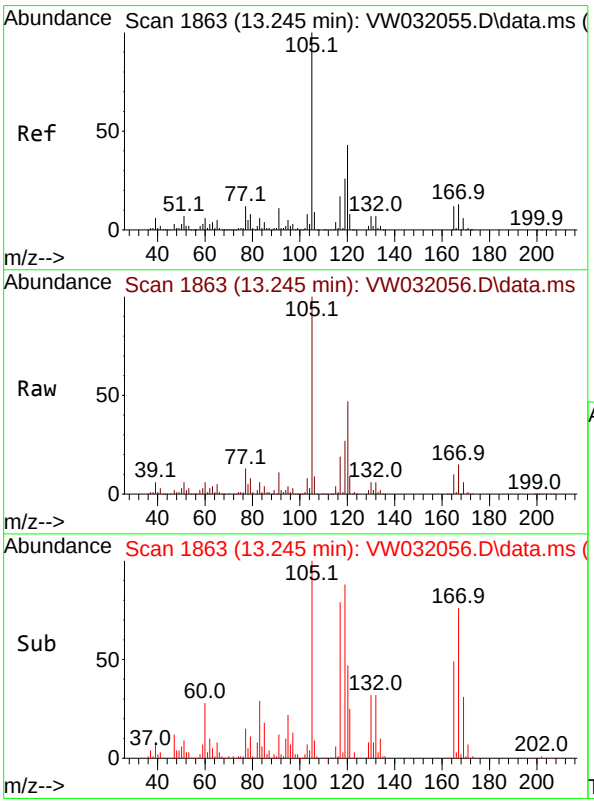

#83
tert-Butylbenzene
Concen: 103.591 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion:119 Resp: 922044

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 69.4 | 35.3 | 105.9 |
| 134 | 25.3 | 12.1 | 36.3 |

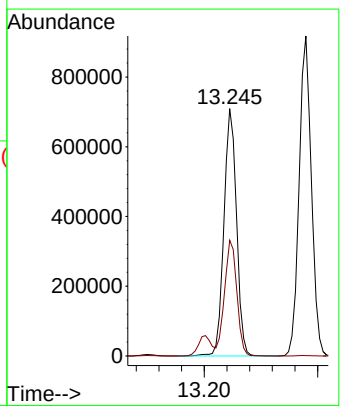


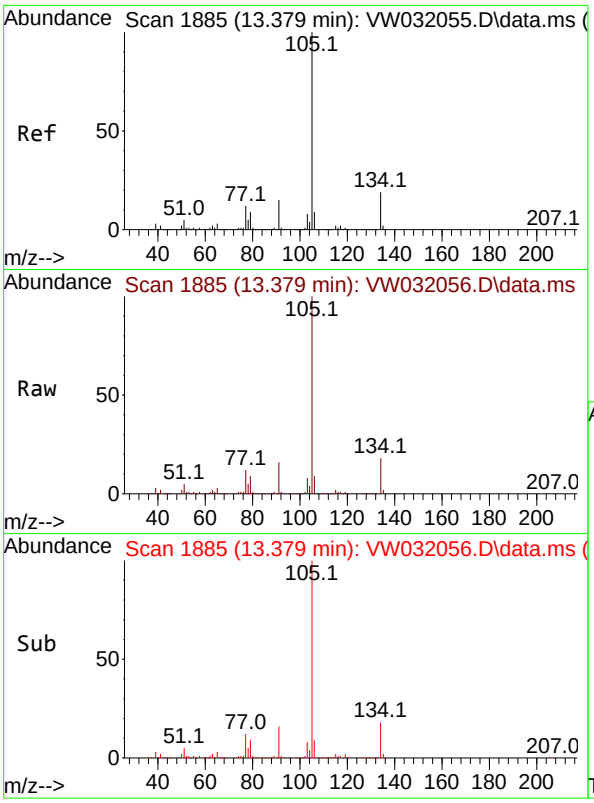




#84
1,2,4-Trimethylbenzene
Concen: 99.778 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:105 Resp: 1089327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.7 | 21.6 | 64.8 |



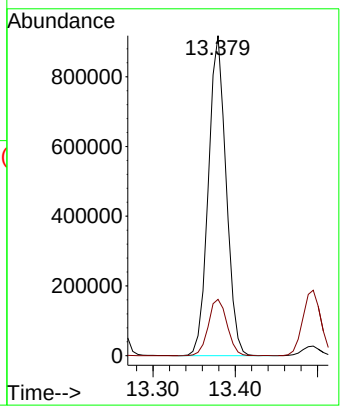


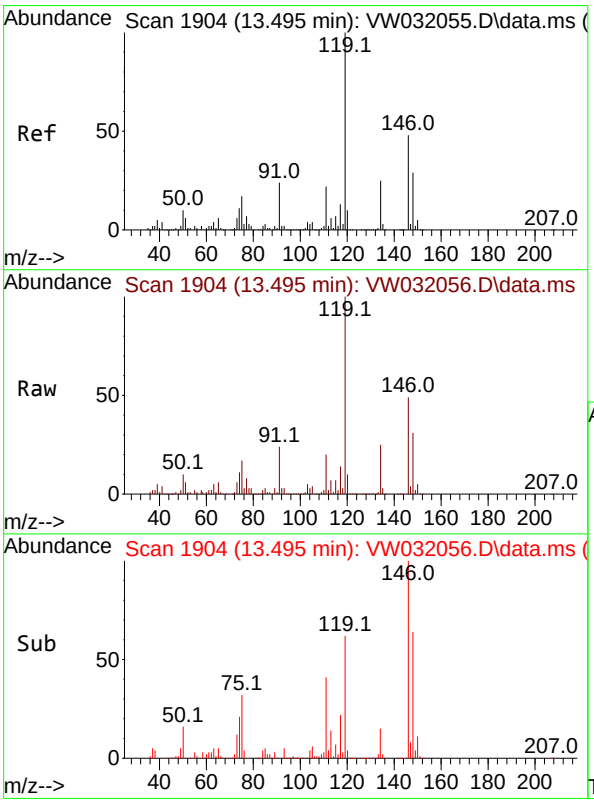

#85
sec-Butylbenzene
Concen: 101.978 ug/l
RT: 13.379 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion:105 Resp: 1372324

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 18.7 | 9.9 | 29.7 |

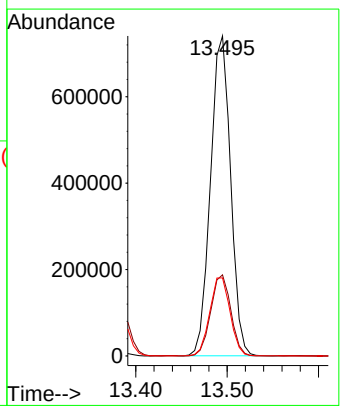


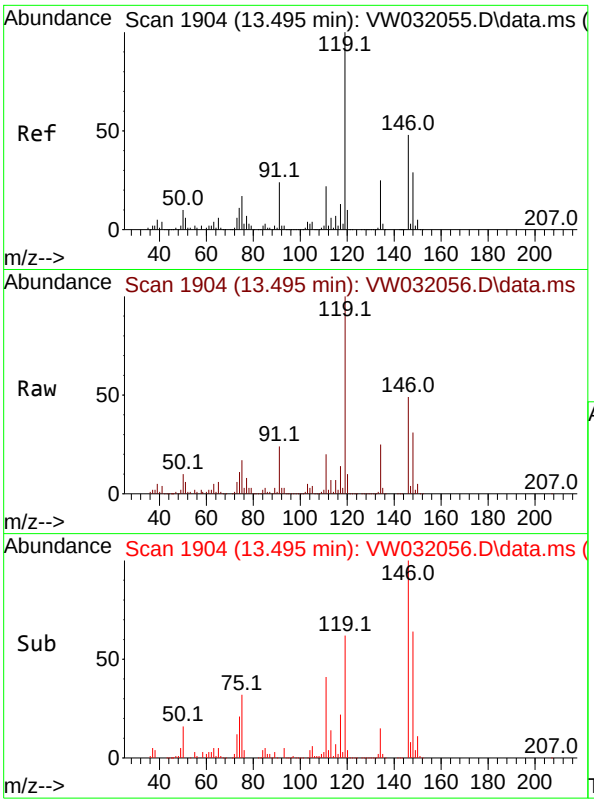




#86
p-Isopropyltoluene
Concen: 100.630 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:119 Resp: 1128935

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.3 | 12.4 | 37.0 |
| 91 | 24.8 | 12.1 | 36.3 |



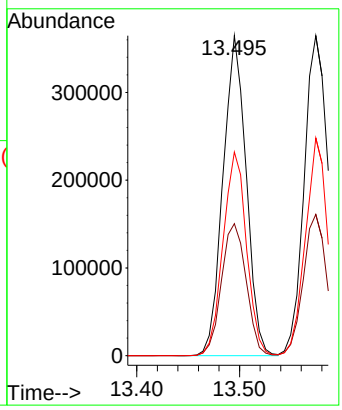


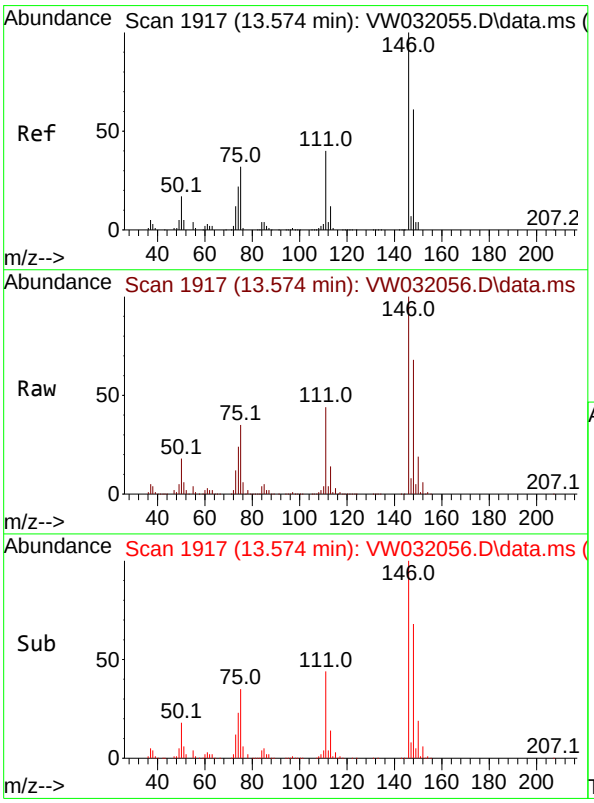

#87
1,3-Dichlorobenzene
Concen: 95.298 ug/l
RT: 13.495 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion:146 Resp: 572145

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.0 | 21.2 | 63.6 |
| 148 | 64.4 | 30.3 | 90.8 |

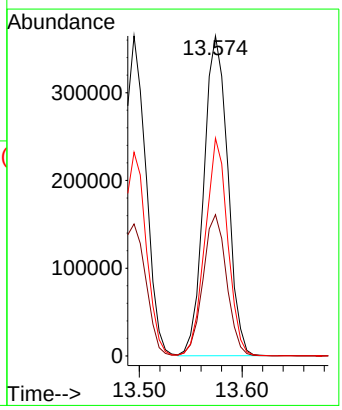


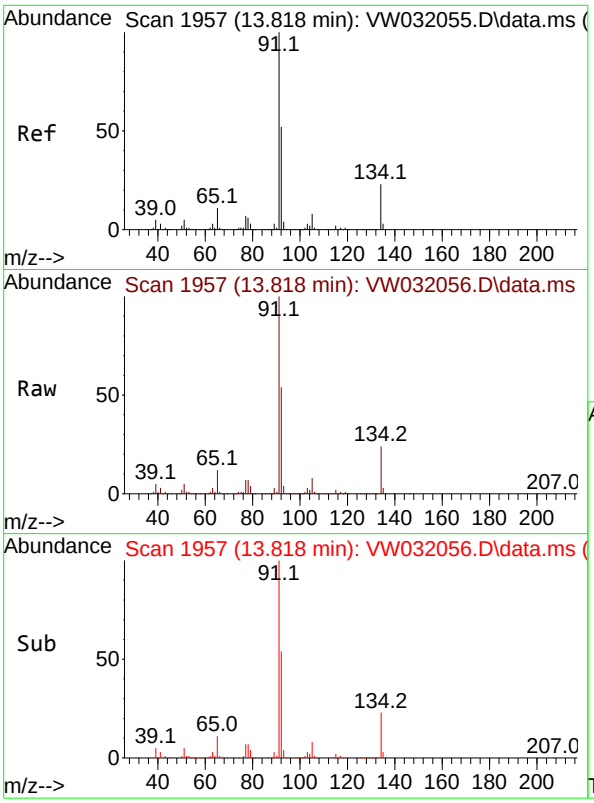




#88
1,4-Dichlorobenzene
Concen: 96.819 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:146 Resp: 587417

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.7 | 21.6 | 64.6 |
| 148 | 64.3 | 32.0 | 96.2 |



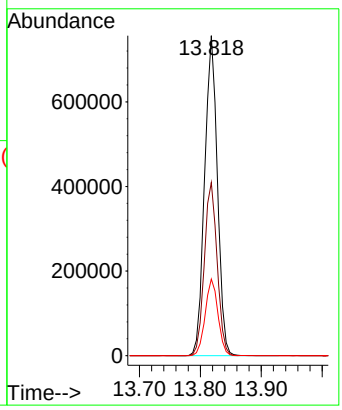


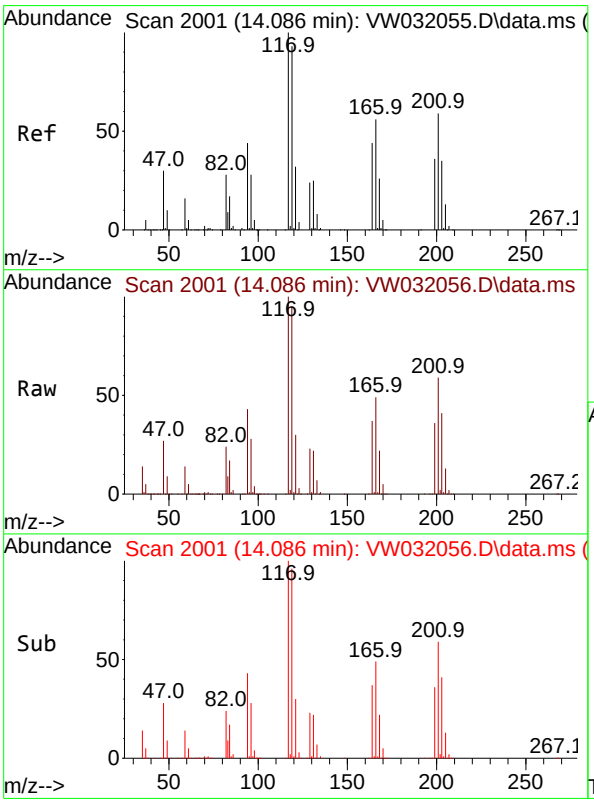

#89
n-Butylbenzene
Concen: 101.235 ug/l
RT: 13.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion: 91 Resp: 1103362

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.3 | 26.7 | 80.1 |
| 134 | 24.0 | 12.0 | 36.1 |

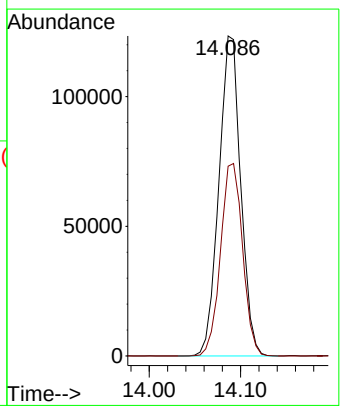


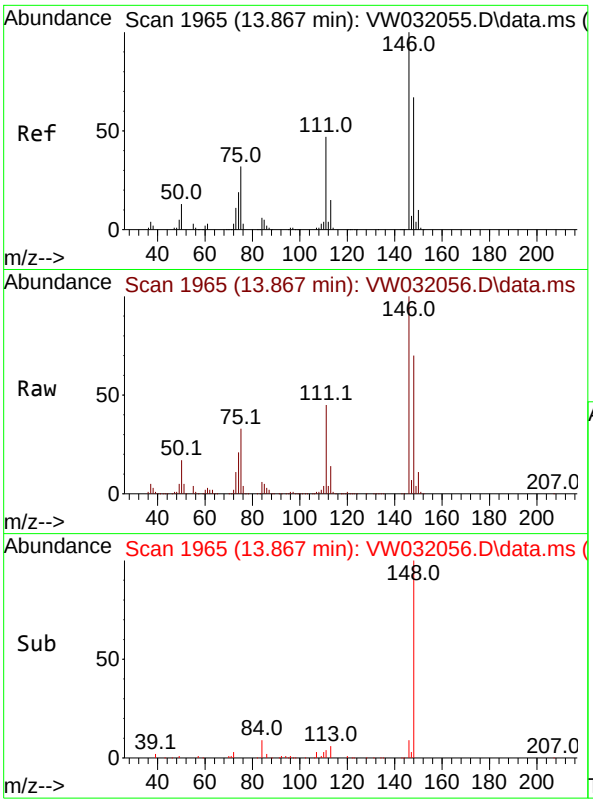




#90
Hexachloroethane
Concen: 99.832 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:117 Resp: 204823

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 60.9 | 30.9 | 92.5 |



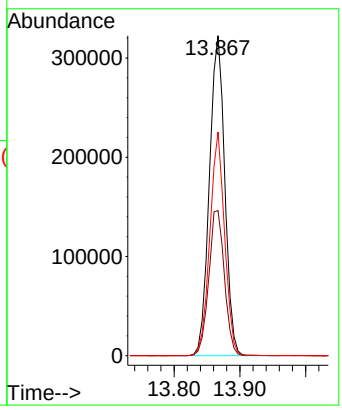


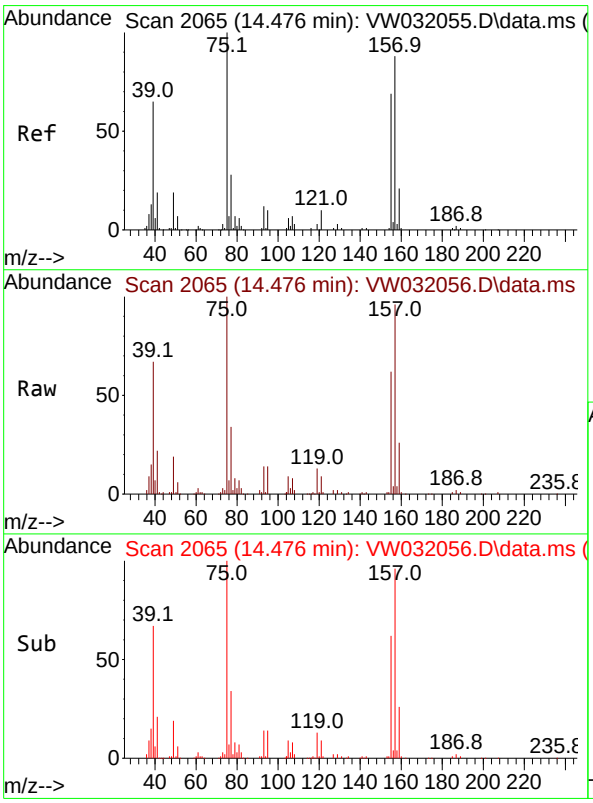

#91
1,2-Dichlorobenzene
Concen: 96.387 ug/l
RT: 13.867 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion:146 Resp: 524204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 46.3 | 23.1 | 69.3 |
| 148 | 67.0 | 32.9 | 98.6 |

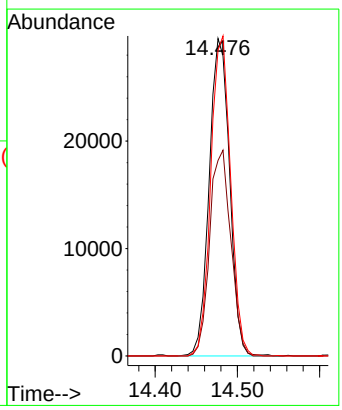


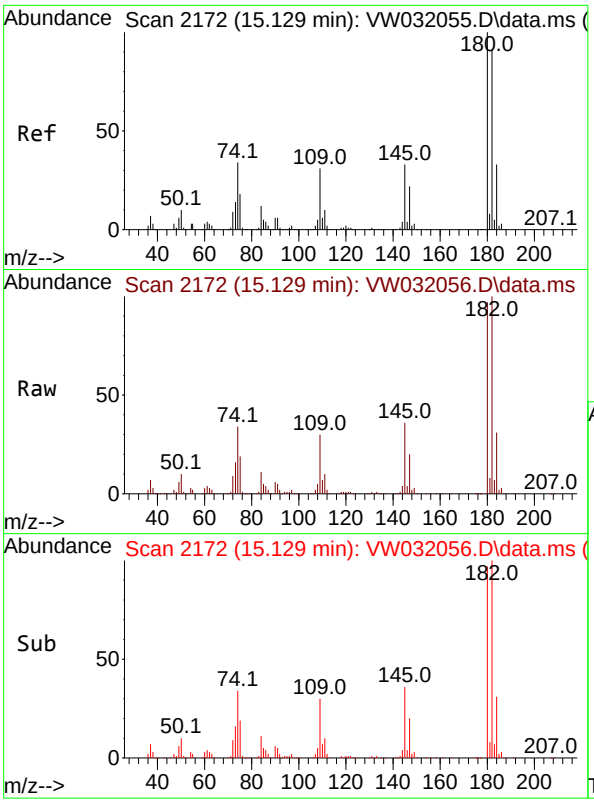




#92
1,2-Dibromo-3-Chloropropane
Concen: 95.632 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion: 75 Resp: 50993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 67.2 | 35.2 | 105.6 |
| 157 | 97.8 | 47.5 | 142.6 |



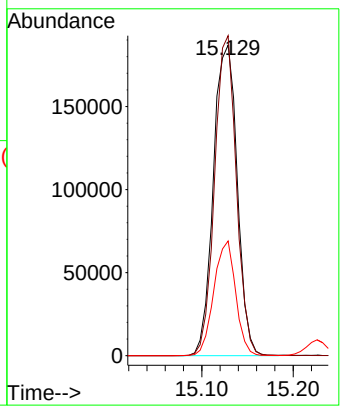


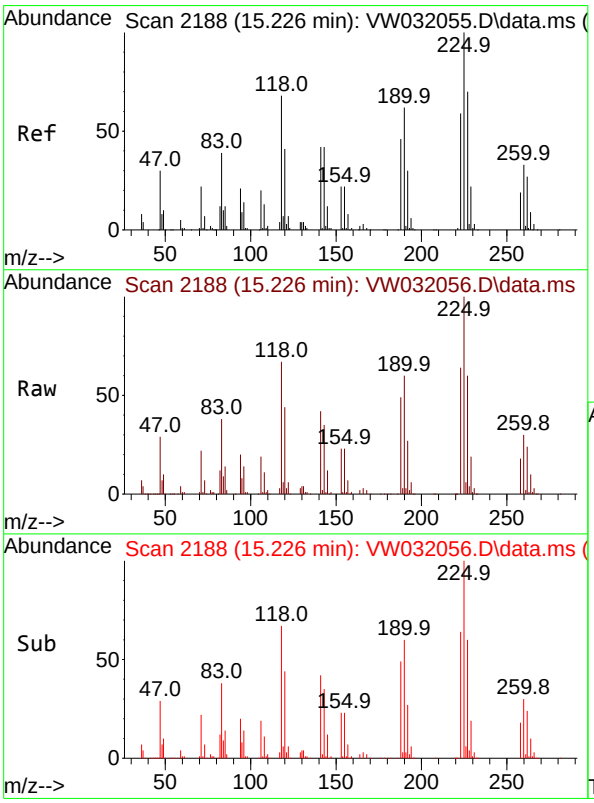

#93
1,2,4-Trichlorobenzene
Concen: 104.094 ug/l
RT: 15.129 min Scan# 21
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion:180 Resp: 338661

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.1 | 49.0 | 147.0 |
| 145 | 33.9 | 17.3 | 51.9 |

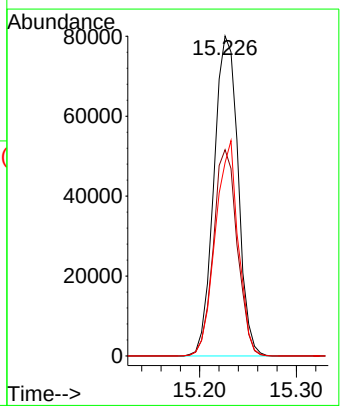


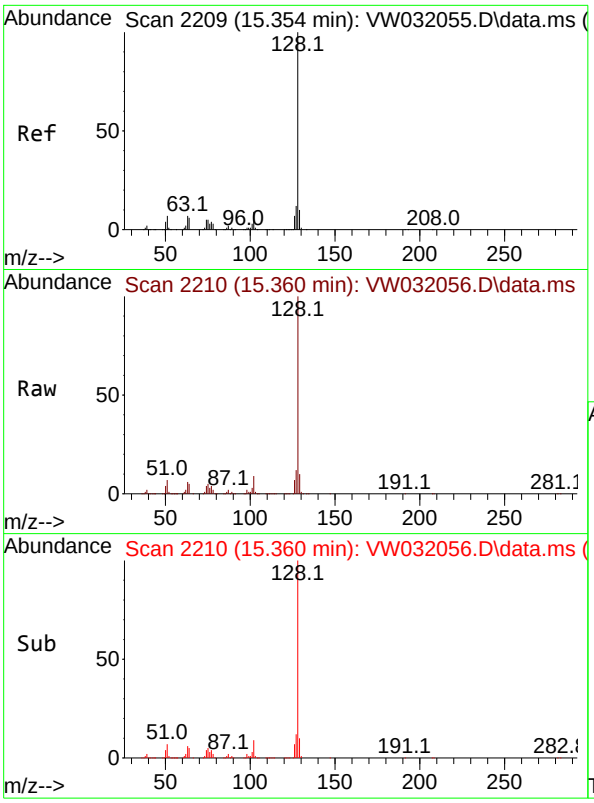




#94
Hexachlorobutadiene
Concen: 95.189 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. 0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:225 Resp: 138434

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.9 | 31.8 | 95.3 |
| 227 | 64.1 | 33.5 | 100.5 |



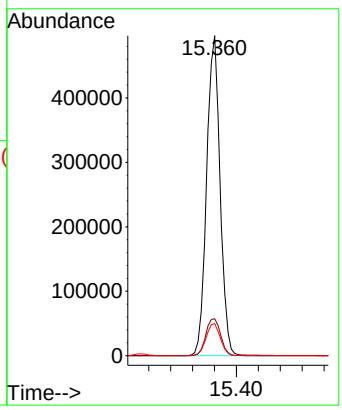


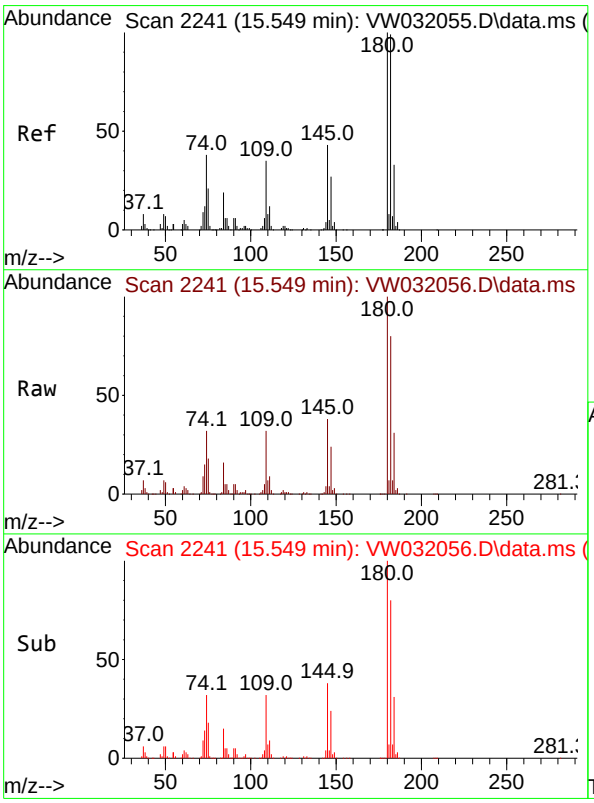

#95
Naphthalene
Concen: 105.533 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC100

Tgt Ion:128 Resp: 841296

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.7 | 10.5 | 15.7 |
| 129 | 10.6 | 8.2 | 12.4 |

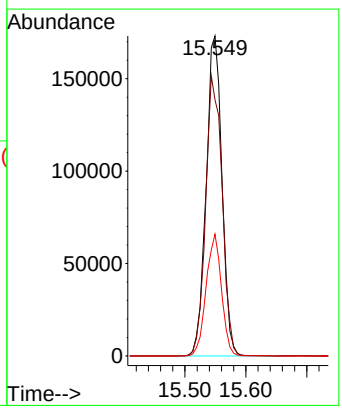



#96
1,2,3-Trichlorobenzene
Concen: 105.748 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. -0.000 min
Lab File: VW032056.D
Acq: 11 Aug 2025 10:46

Tgt Ion:180 Resp: 313033

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 91.1 | 46.0 | 138.0 |
| 145 | 36.9 | 19.2 | 57.6 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032057.D
Acq On : 11 Aug 2025 11:08
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Quant Time: Aug 12 03:40:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.959 | 168 | 224613 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.849 | 114 | 422167 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.629 | 117 | 375277 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.550 | 152 | 172321 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.319 | 65 | 469688 | 144.584 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 63 - 155 | | Recovery = 289.160%# | | | |
| 35) Dibromofluoromethane | 7.898 | 113 | 393306 | 144.207 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 70 - 134 | | Recovery = 288.420%# | | | |
| 50) Toluene-d8 | 10.331 | 98 | 1492050 | 147.908 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 123 | | Recovery = 295.820%# | | | |
| 62) 4-Bromofluorobenzene | 12.617 | 95 | 558308 | 150.185 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 17 - 146 | | Recovery = 300.380%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.046 | 85 | 218953 | 136.294 | ug/l | 100 |
| 3) Chloromethane | 2.253 | 50 | 315772 | 145.923 | ug/l | 97 |
| 4) Vinyl Chloride | 2.405 | 62 | 362119 | 138.343 | ug/l | 95 |
| 5) Bromomethane | 2.808 | 94 | 271810 | 138.413 | ug/l | 98 |
| 6) Chloroethane | 2.966 | 64 | 247890 | 143.117 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.301 | 101 | 339384 | 161.851 | ug/l | 98 |
| 8) Diethyl Ether | 3.722 | 74 | 254566 | 148.178 | ug/l | 98 |
| 9) 1,1,2-Trichlorotrifluo... | 4.100 | 101 | 343759 | 138.957 | ug/l | 99 |
| 10) Methyl Iodide | 4.301 | 142 | 514954 | 146.812 | ug/l | 100 |
| 11) Tert butyl alcohol | 5.222 | 59 | 164147 | 780.336 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 4.076 | 96 | 388559 | 142.642 | ug/l | 94 |
| 13) Acrolein | 3.929 | 56 | 224901 | 671.009 | ug/l | 98 |
| 14) Allyl chloride | 4.704 | 41 | 600290 | 151.415 | ug/l | 99 |
| 15) Acrylonitrile | 5.399 | 53 | 629942 | 769.843 | ug/l | 99 |
| 16) Acetone | 4.161 | 43 | 528585 | 702.794 | ug/l | 100 |
| 17) Carbon Disulfide | 4.423 | 76 | 1081188 | 147.872 | ug/l | 98 |
| 18) Methyl Acetate | 4.710 | 43 | 371024 | 155.895 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.466 | 73 | 719923 | 149.999 | ug/l | 100 |
| 20) Methylene Chloride | 4.960 | 84 | 437275 | 125.744 | ug/l | 95 |
| 21) trans-1,2-Dichloroethene | 5.454 | 96 | 427242 | 147.794 | ug/l | 96 |
| 22) Diisopropyl ether | 6.344 | 45 | 1260898 | 150.866 | ug/l | 98 |
| 23) Vinyl Acetate | 6.283 | 43 | 4356523 | 793.927 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 6.240 | 63 | 782153 | 146.472 | ug/l | 99 |
| 25) 2-Butanone | 7.191 | 43 | 837991 | 783.936 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 7.185 | 77 | 393976 | 147.064 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 7.191 | 96 | 518413 | 153.420 | ug/l | 98 |
| 28) Bromochloromethane | 7.532 | 49 | 356684 | 146.781 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.551 | 42 | 549203 | 779.054 | ug/l | 99 |
| 30) Chloroform | 7.691 | 83 | 823850 | 145.528 | ug/l | 98 |
| 31) Cyclohexane | 7.971 | 56 | 645762 | 139.490 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.886 | 97 | 591372 | 143.816 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 8.093 | 75 | 556189 | 144.659 | ug/l | 99 |
| 37) Ethyl Acetate | 7.276 | 43 | 348970 | 154.109 | ug/l | 99 |
| 38) Carbon Tetrachloride | 8.087 | 117 | 544688 | 146.799 | ug/l | 97 |
| 39) Methylcyclohexane | 9.343 | 83 | 732413 | 156.286 | ug/l | 99 |
| 40) Benzene | 8.337 | 78 | 1770706 | 148.159 | ug/l | 97 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032057.D
Acq On : 11 Aug 2025 11:08
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Quant Time: Aug 12 03:40:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.502 | 41 | 205729 | 160.204 | ug/l | | 97 |
| 42) 1,2-Dichloroethane | 8.410 | 62 | 552184 | 144.388 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.435 | 43 | 665712 | 159.788 | ug/l | | 100 |
| 44) Trichloroethene | 9.099 | 130 | 424873 | 149.281 | ug/l | | 93 |
| 45) 1,2-Dichloropropane | 9.374 | 63 | 429280 | 148.679 | ug/l | | 100 |
| 46) Dibromomethane | 9.465 | 93 | 277058 | 148.678 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.648 | 83 | 653476 | 152.185 | ug/l | | 99 |
| 48) Methyl methacrylate | 9.441 | 41 | 330511 | 164.326 | ug/l | | 99 |
| 49) 1,4-Dioxane | 9.459 | 88 | 79016 | 3279.484 | ug/l | # | 83 |
| 51) 4-Methyl-2-Pentanone | 10.215 | 43 | 1817273 | 772.800 | ug/l | | 99 |
| 52) Toluene | 10.392 | 92 | 1142813 | 151.812 | ug/l | | 96 |
| 53) t-1,3-Dichloropropene | 10.605 | 75 | 654765 | 162.760 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 10.075 | 75 | 716583 | 157.011 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 10.788 | 97 | 364680 | 147.271 | ug/l | | 98 |
| 56) Ethyl methacrylate | 10.648 | 69 | 553265 | 166.963 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.934 | 76 | 644418 | 149.298 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.928 | 63 | 1437682 | 784.377 | ug/l | | 99 |
| 59) 2-Hexanone | 10.971 | 43 | 1278917 | 785.288 | ug/l | | 98 |
| 60) Dibromochloromethane | 11.129 | 129 | 442362 | 156.387 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.239 | 107 | 363192 | 150.929 | ug/l | | 96 |
| 64) Tetrachloroethene | 10.867 | 164 | 326491 | 150.622 | ug/l | | 94 |
| 65) Chlorobenzene | 11.660 | 112 | 1230240 | 150.609 | ug/l | | 96 |
| 66) 1,1,1,2-Tetrachloroethane | 11.727 | 131 | 400167 | 157.017 | ug/l | | 97 |
| 67) Ethyl Benzene | 11.733 | 91 | 2162983 | 156.328 | ug/l | | 97 |
| 68) m/p-Xylenes | 11.837 | 106 | 1643338 | 307.801 | ug/l | | 100 |
| 69) o-Xylene | 12.166 | 106 | 786831 | 159.450 | ug/l | | 99 |
| 70) Styrene | 12.178 | 104 | 1406640 | 160.482 | ug/l | | 97 |
| 71) Bromoform | 12.349 | 173 | 238675 | 163.720 | ug/l | # | 93 |
| 73) Isopropylbenzene | 12.464 | 105 | 1977280 | 164.188 | ug/l | | 99 |
| 74) N-amyl acetate | 12.269 | 43 | 589285 | 170.556 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.708 | 83 | 449708 | 157.276 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.763 | 75 | 576261 | 217.539 | ug/l | | 55 |
| 77) Bromobenzene | 12.745 | 156 | 440559 | 153.167 | ug/l | | 98 |
| 78) n-propylbenzene | 12.800 | 91 | 2346333 | 158.253 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.891 | 91 | 1434986 | 156.820 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.940 | 105 | 1639597 | 160.368 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.507 | 75 | 157641 | 174.499 | ug/l | | 96 |
| 82) 4-Chlorotoluene | 12.983 | 91 | 1515300 | 155.863 | ug/l | | 98 |
| 83) tert-Butylbenzene | 13.202 | 119 | 1383127 | 163.006 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.245 | 105 | 1646381 | 158.189 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.379 | 105 | 2047763 | 159.625 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.495 | 119 | 1712519 | 160.127 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.495 | 146 | 867827 | 151.629 | ug/l | | 97 |
| 88) 1,4-Dichlorobenzene | 13.574 | 146 | 851057 | 147.144 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.818 | 91 | 1657492 | 159.527 | ug/l | | 98 |
| 90) Hexachloroethane | 14.086 | 117 | 322461 | 164.868 | ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 13.867 | 146 | 798257 | 153.968 | ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.476 | 75 | 81063 | 159.472 | ug/l | | 94 |
| 93) 1,2,4-Trichlorobenzene | 15.123 | 180 | 499355 | 161.006 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 15.226 | 225 | 218963 | 157.938 | ug/l | | 97 |
| 95) Naphthalene | 15.360 | 128 | 1348344 | 177.424 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.543 | 180 | 466811 | 165.423 | ug/l | | 97 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032057.D
Acq On : 11 Aug 2025 11:08
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Quant Time: Aug 12 03:40:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

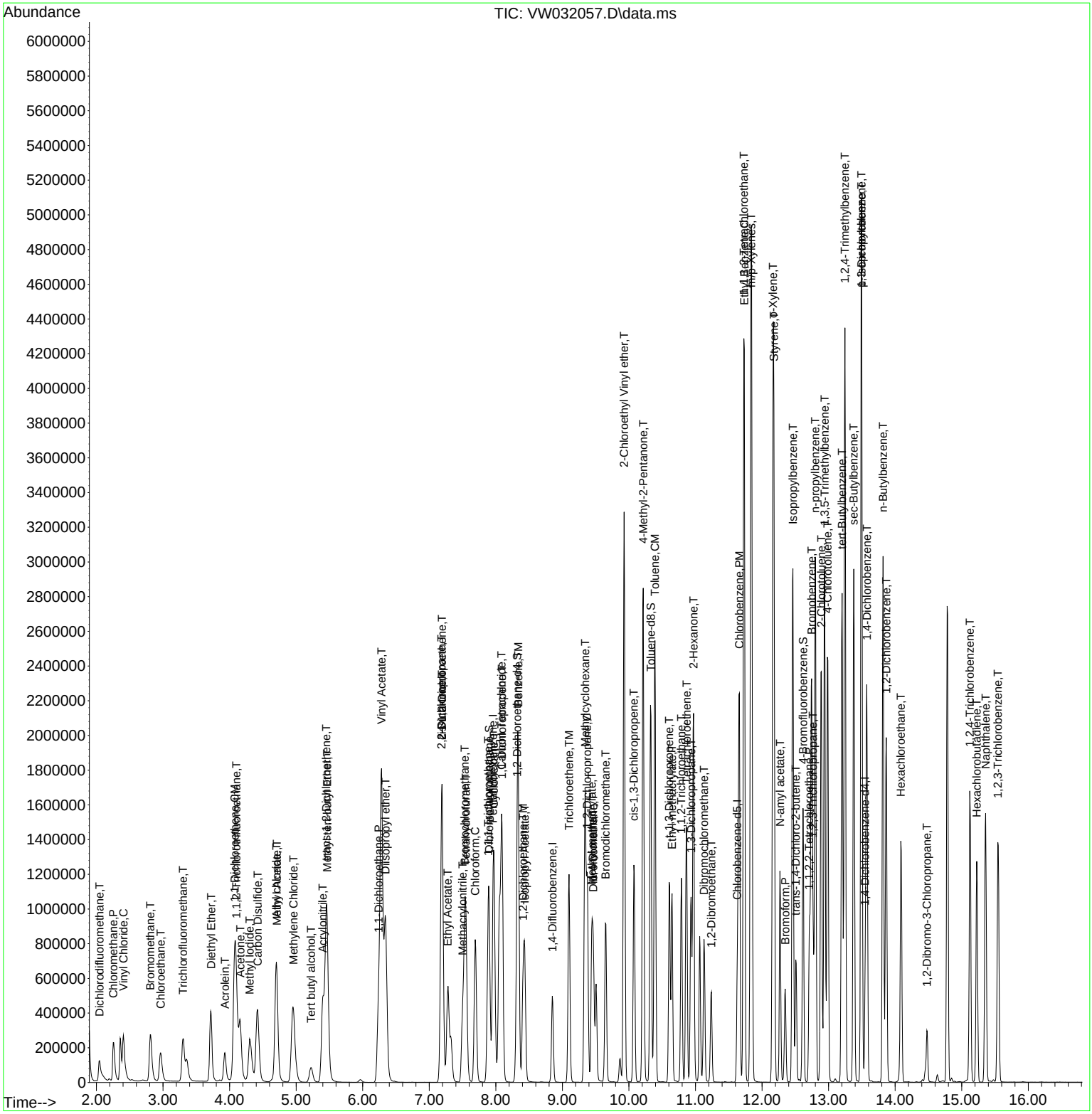
(#) = qualifier out of range (m) = manual integration (+) = signals summed

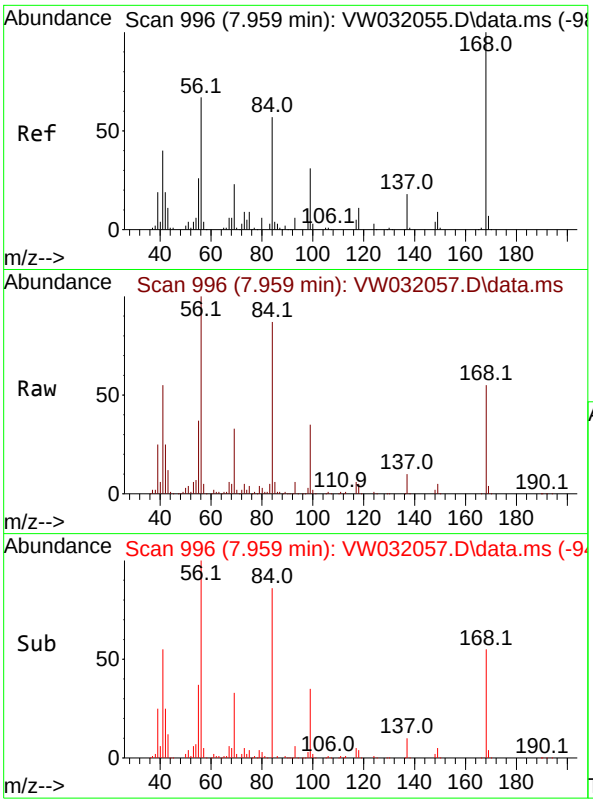
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032057.D
Acq On : 11 Aug 2025 11:08
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Quant Time: Aug 12 03:40:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 03:34:13 2025
Response via : Initial Calibration



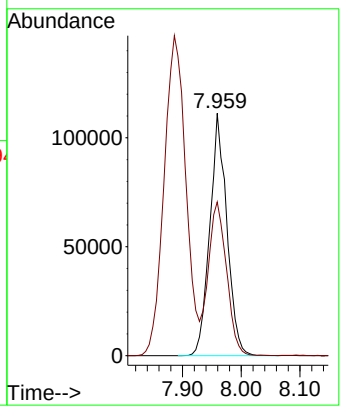


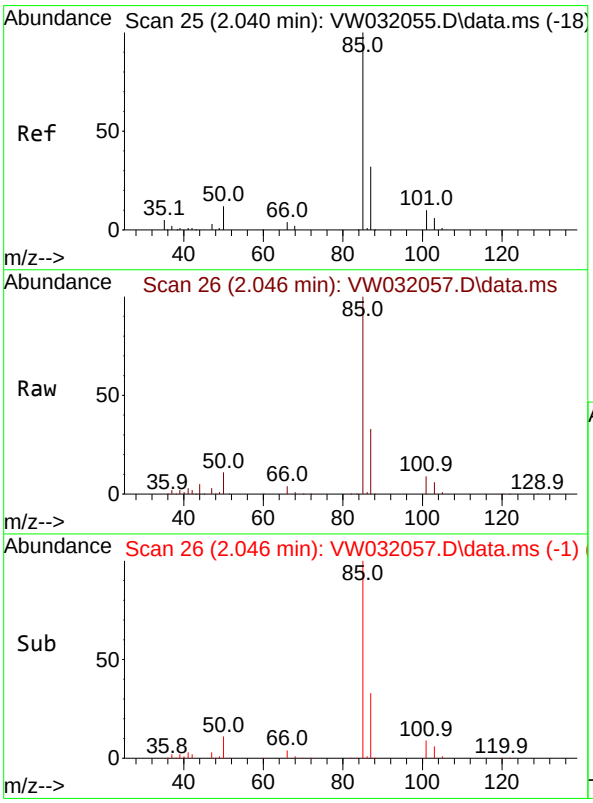

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion:168 Resp: 224613

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 63.4 | 56.0 | 84.0 |

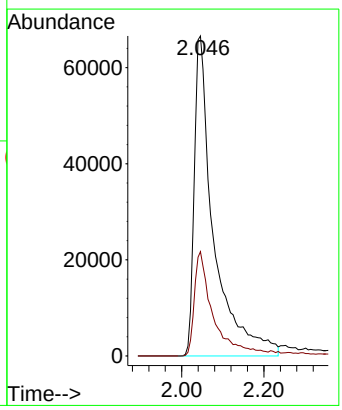


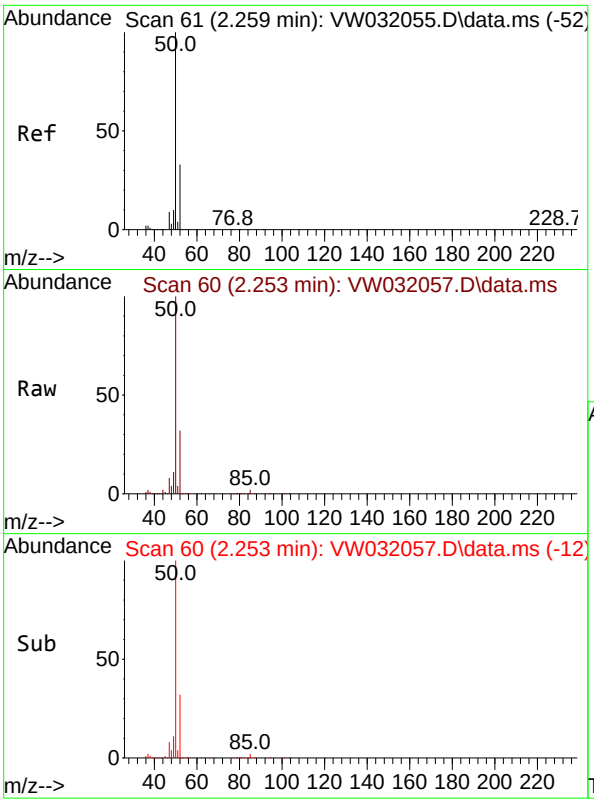




#2
Dichlorodifluoromethane
Concen: 136.294 ug/l
RT: 2.046 min Scan# 26
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 85 Resp: 218953

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.6 | 16.2 | 48.6 |



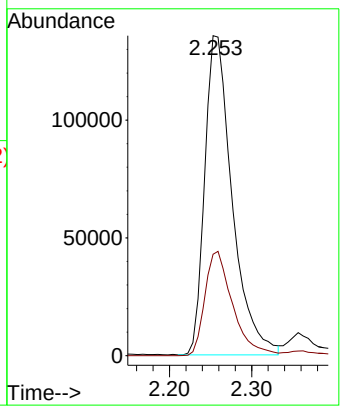


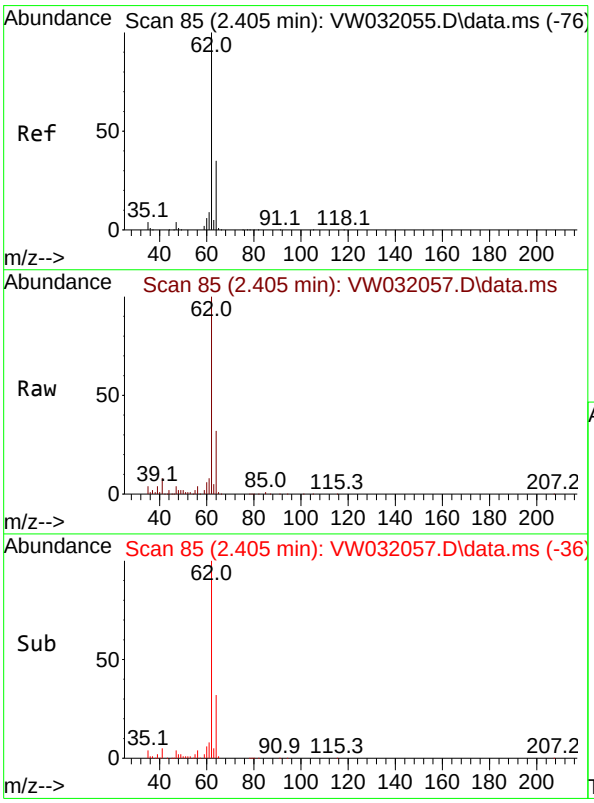

#3
Chloromethane
Concen: 145.923 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion: 50 Resp: 315772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.8 | 26.6 | 39.8 |

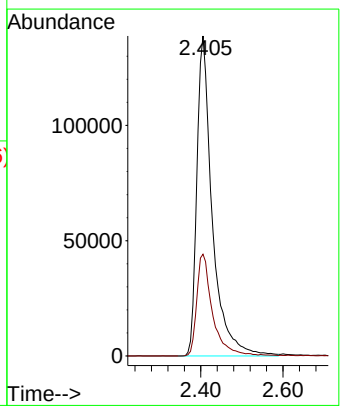


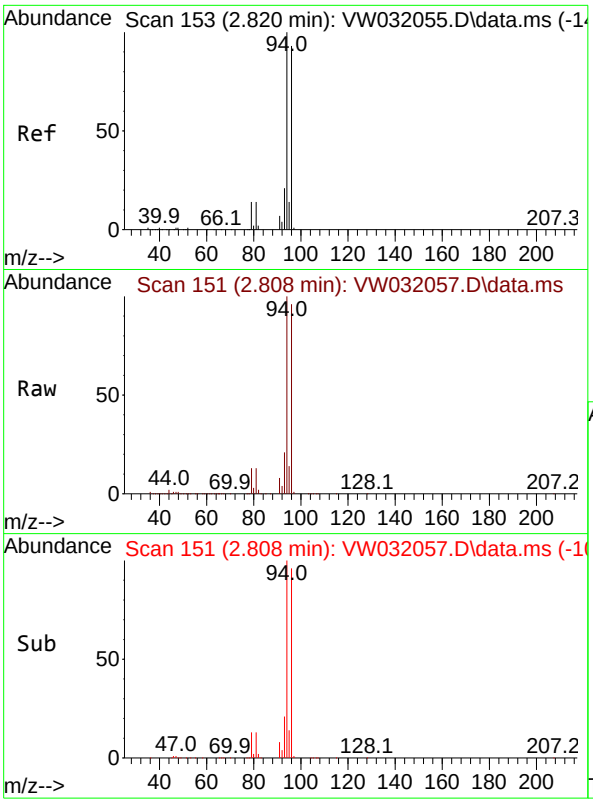




#4
Vinyl Chloride
Concen: 138.343 ug/l
RT: 2.405 min Scan# 85
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 62 Resp: 362119

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.8 | 27.8 | 41.6 |



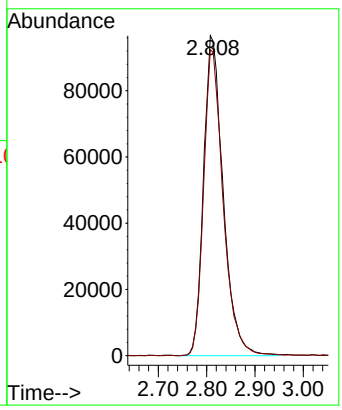


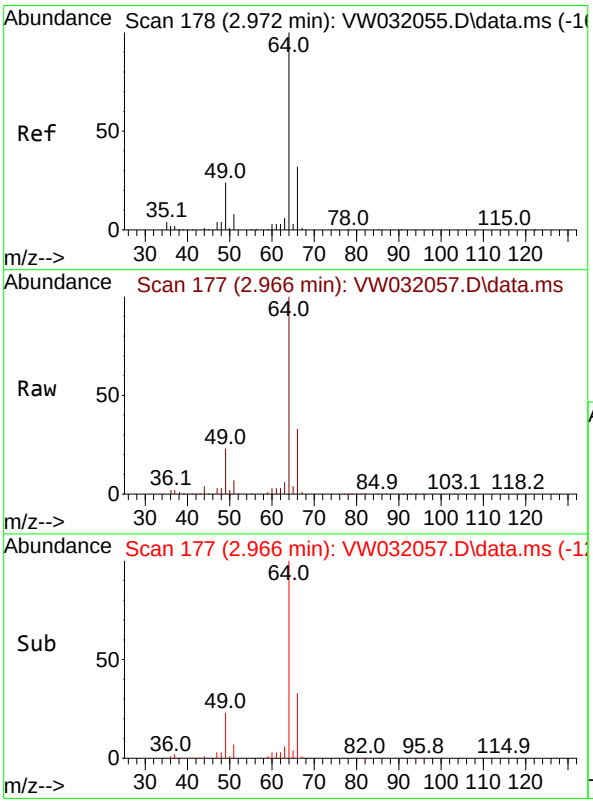

#5
Bromomethane
Concen: 138.413 ug/l
RT: 2.808 min Scan# 1
Delta R.T. -0.012 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion: 94 Resp: 271810

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 95.6 | 74.7 | 112.1 |

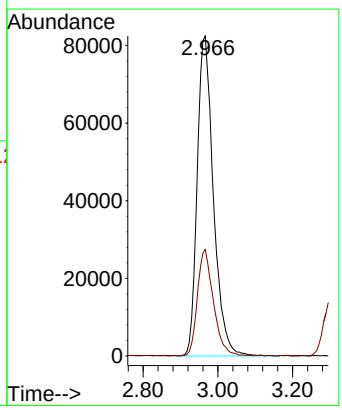


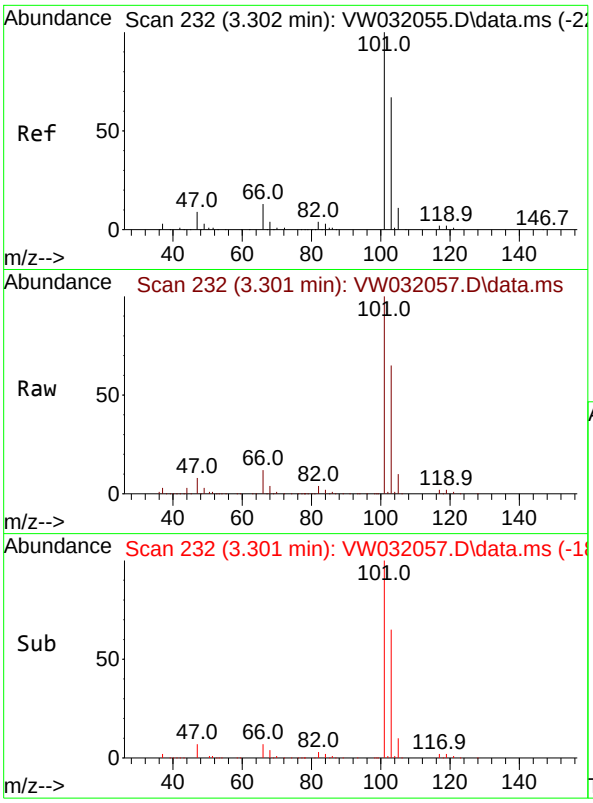




#6
Chloroethane
Concen: 143.117 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 64 Resp: 247890

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 33.2 | 26.0 | 39.0 |



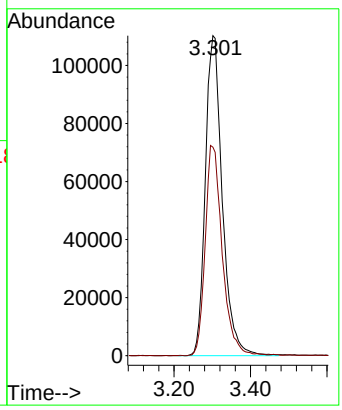


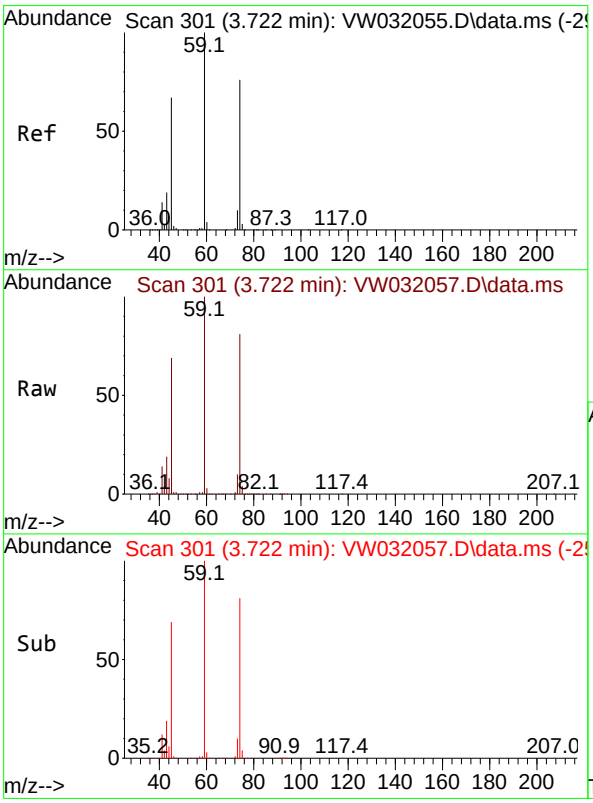

#7
Trichlorofluoromethane
Concen: 161.851 ug/l
RT: 3.301 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion:101 Resp: 339384

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.1 | 53.4 | 80.0 |

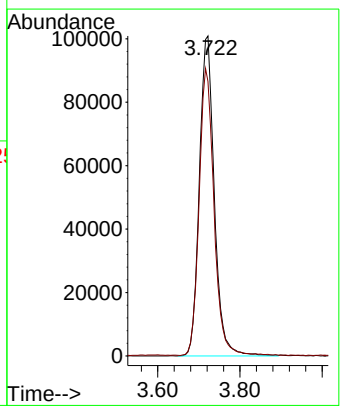


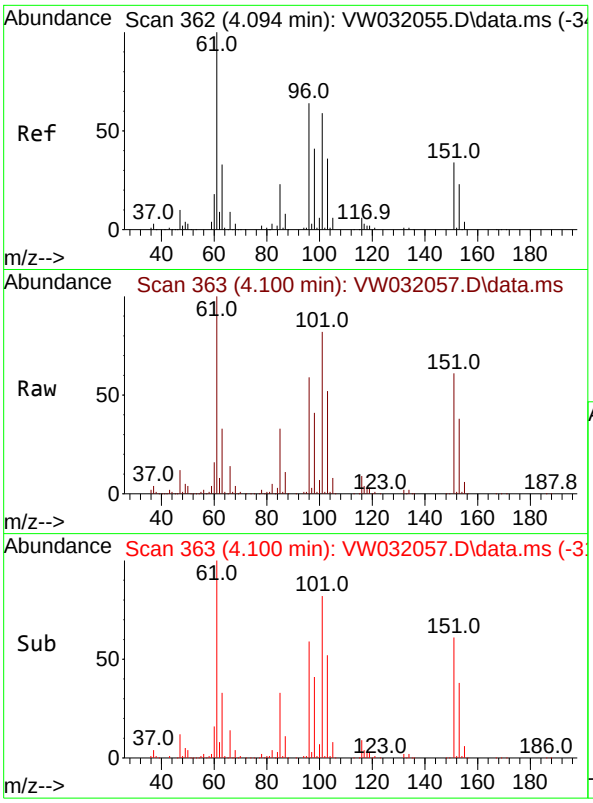




#8
Diethyl Ether
Concen: 148.178 ug/l
RT: 3.722 min Scan# 301
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 74 Resp: 254566

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 89.1 | 45.4 | 136.2 |



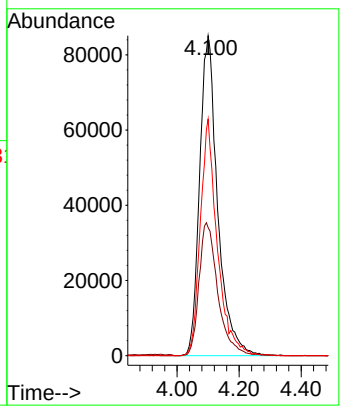


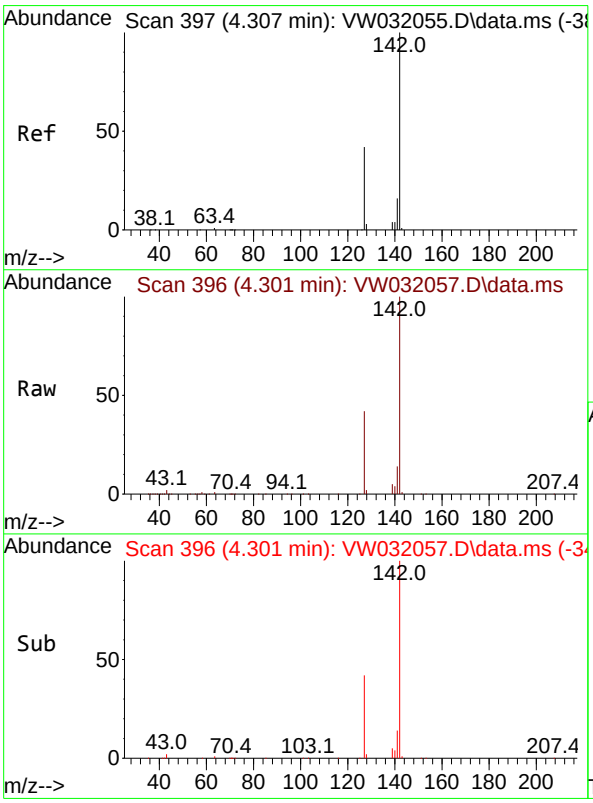

#9
1,1,2-Trichlorotrifluoroethane
Concen: 138.957 ug/l
RT: 4.100 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion:101 Resp: 343759

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 43.2 | 34.9 | 52.3 |
| 151 | 69.6 | 56.2 | 84.4 |

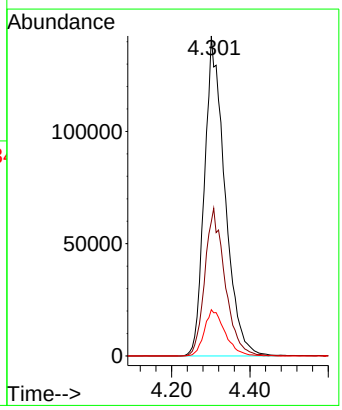


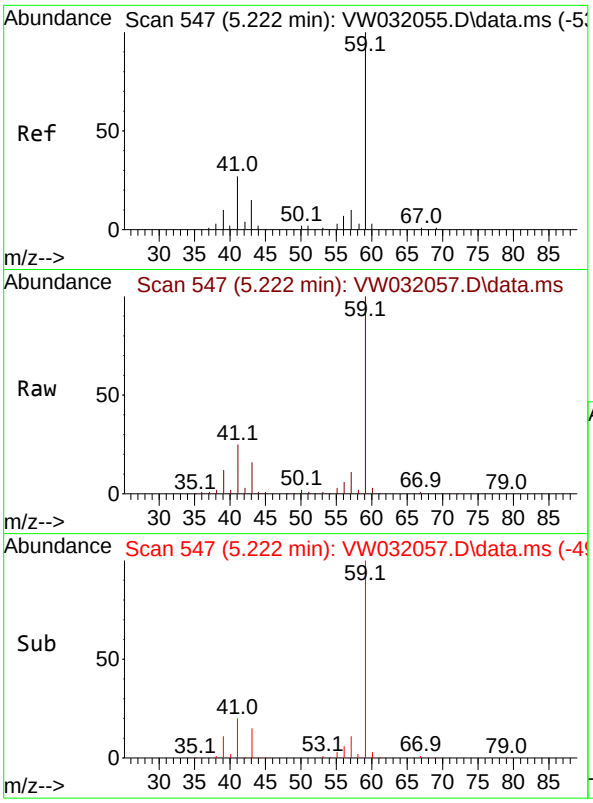




#10
Methyl Iodide
Concen: 146.812 ug/l
RT: 4.301 min Scan# 396
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:142 Resp: 514954

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 45.7 | 36.6 | 55.0 |
| 141 | 14.7 | 12.1 | 18.1 |



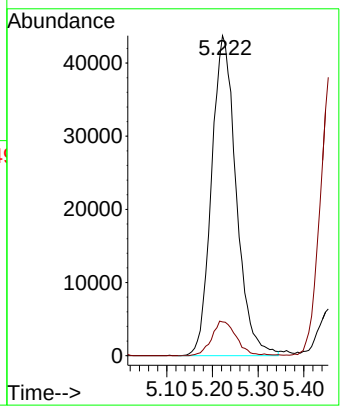


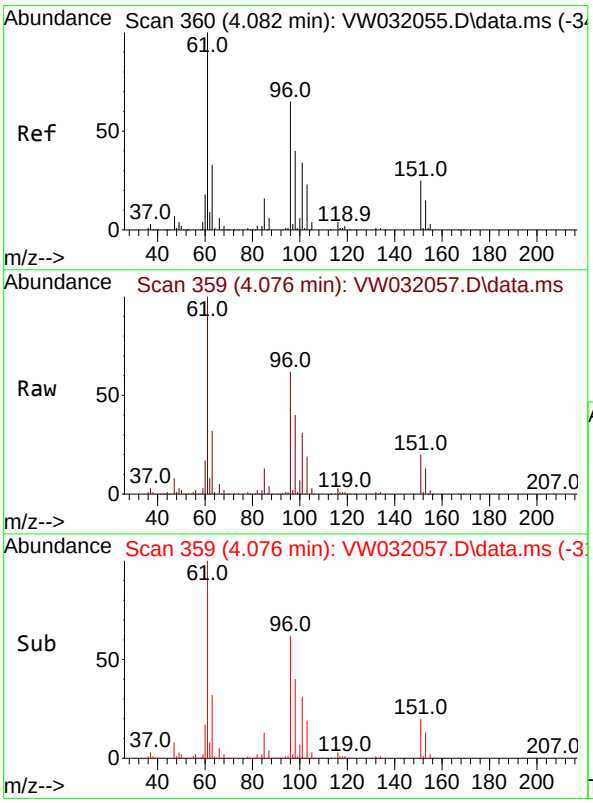

#11
Tert butyl alcohol
Concen: 780.336 ug/l
RT: 5.222 min Scan# 54
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion: 59 Resp: 164147

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.7 | 8.7 | 13.1 |

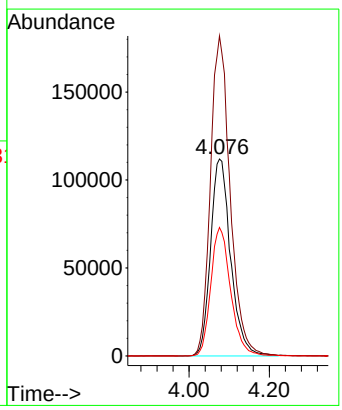


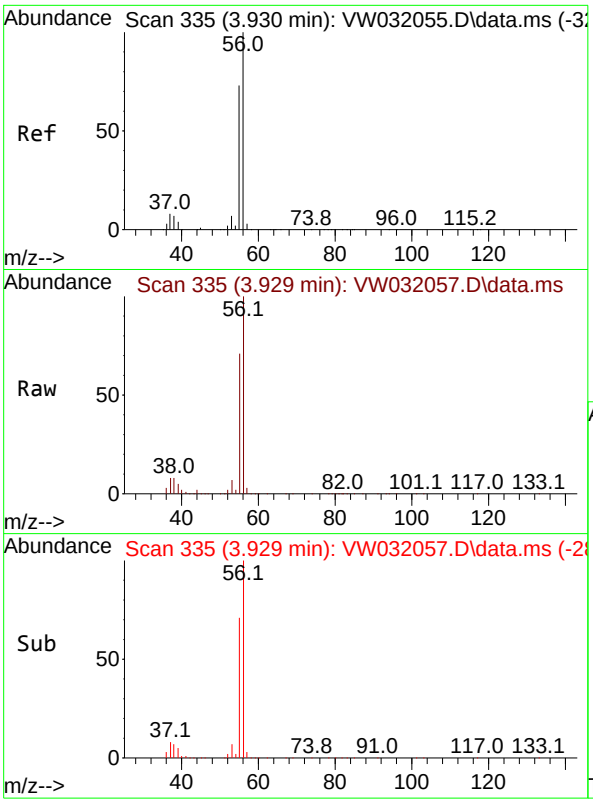




#12
1,1-Dichloroethene
Concen: 142.642 ug/l
RT: 4.076 min Scan# 359
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 96 Resp: 388559

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 162.4 | 123.4 | 185.2 |
| 98 | 65.3 | 49.5 | 74.3 |



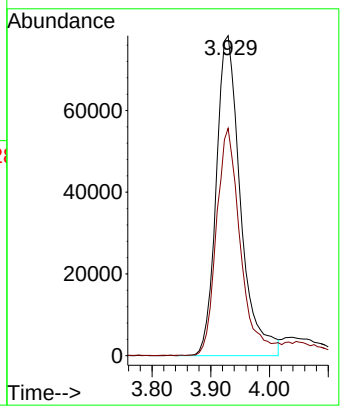


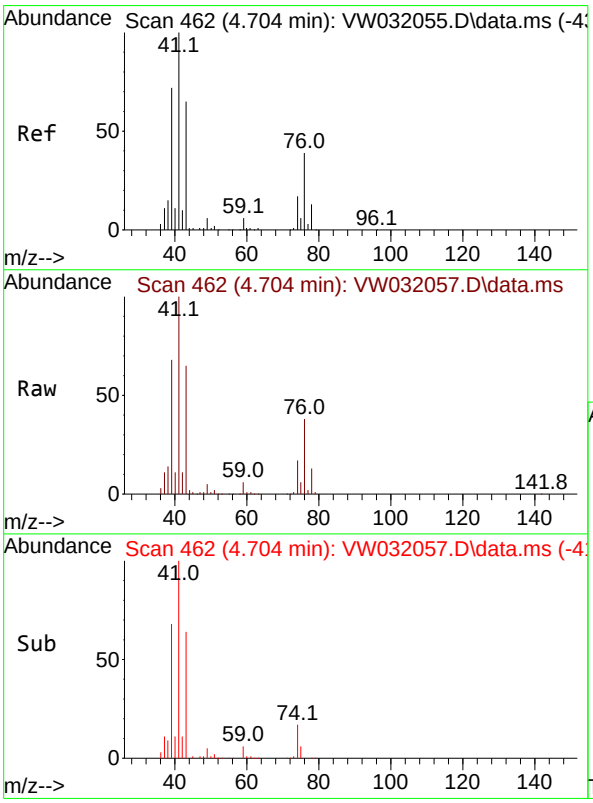

#13
Acrolein
Concen: 671.009 ug/l
RT: 3.929 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion: 56 Resp: 224901

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 70.6 | 55.4 | 83.2 |

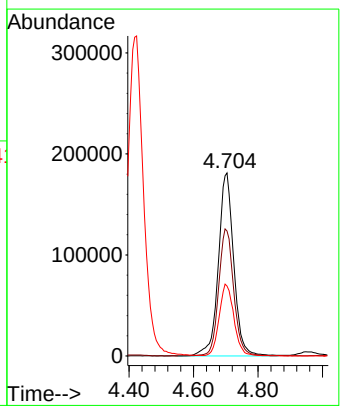


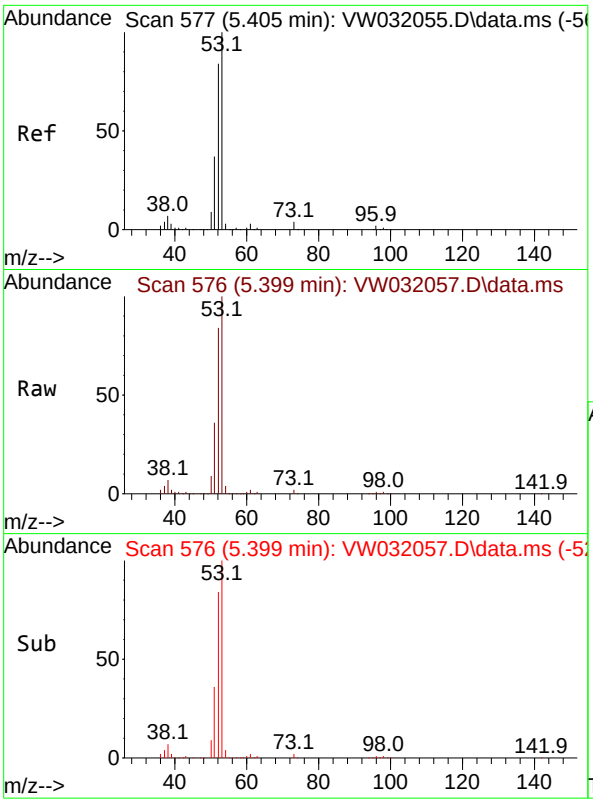




#14
Allyl chloride
Concen: 151.415 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 41 Resp: 600290

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 67.6 | 54.5 | 81.7 |
| 76 | 37.6 | 29.3 | 43.9 |



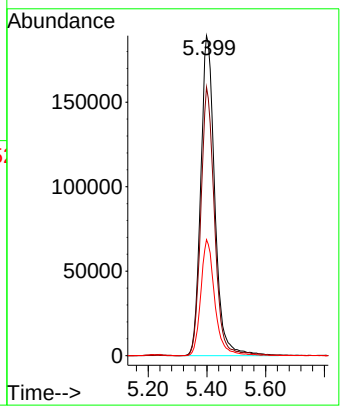


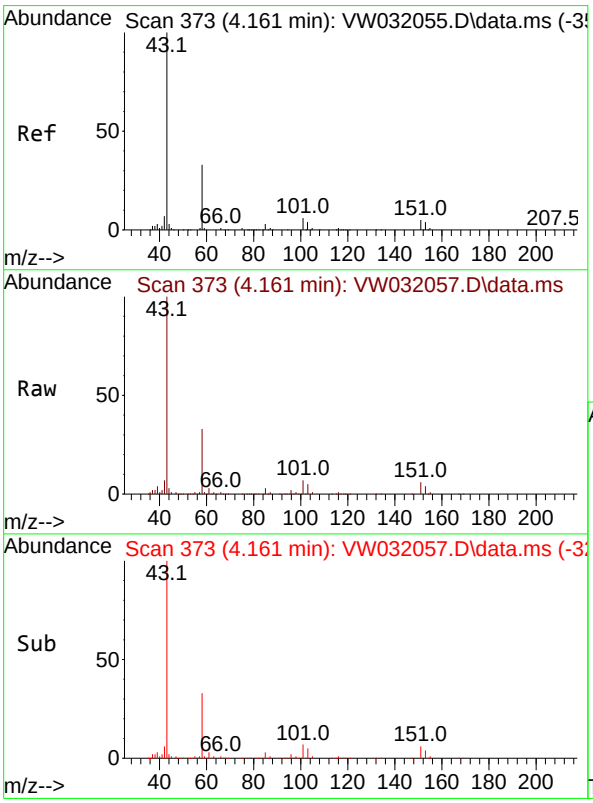

#15
Acrylonitrile
Concen: 769.843 ug/l
RT: 5.399 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion: 53 Resp: 629942

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.7 | 66.1 | 99.1 |
| 51 | 36.1 | 29.2 | 43.8 |

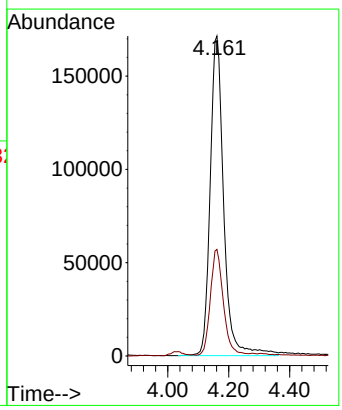


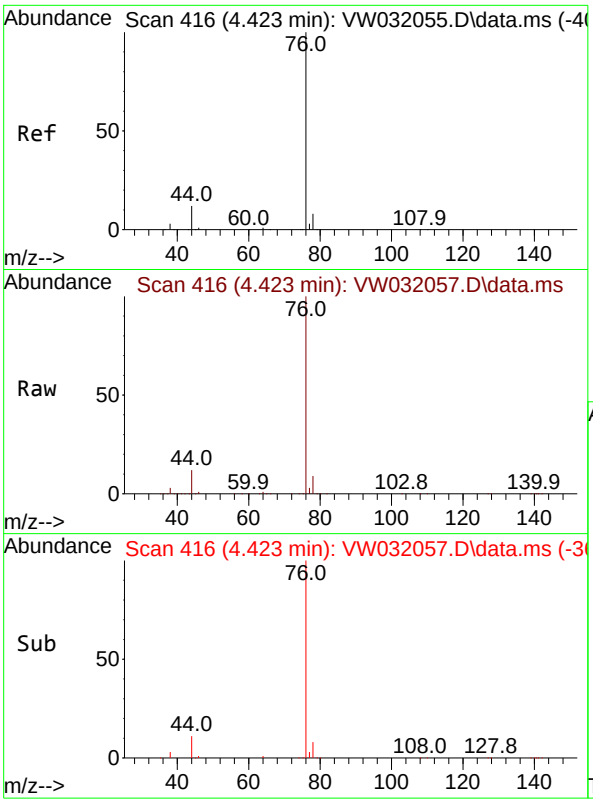




#16
Acetone
Concen: 702.794 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 43 Resp: 528585

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.9 | 26.6 | 39.8 |



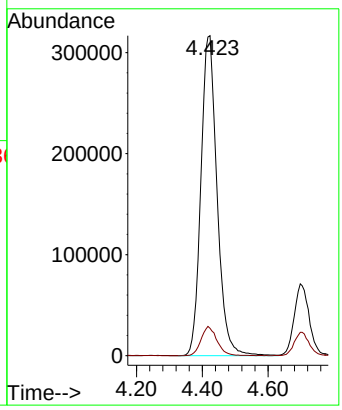


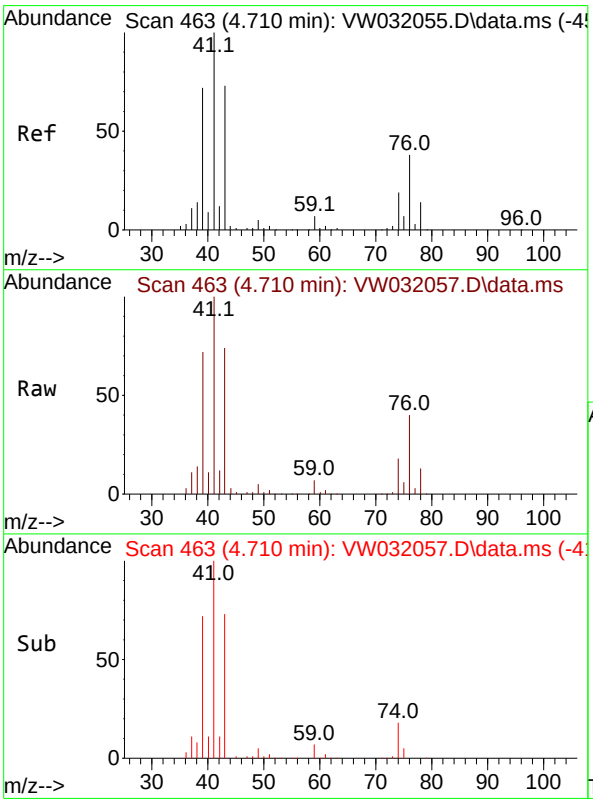

#17
Carbon Disulfide
Concen: 147.872 ug/l
RT: 4.423 min Scan# 4
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion: 76 Resp: 1081188

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.5 | 6.4 | 9.6 |

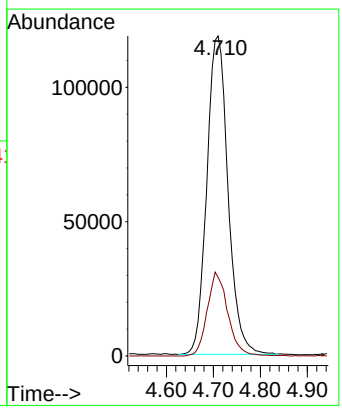


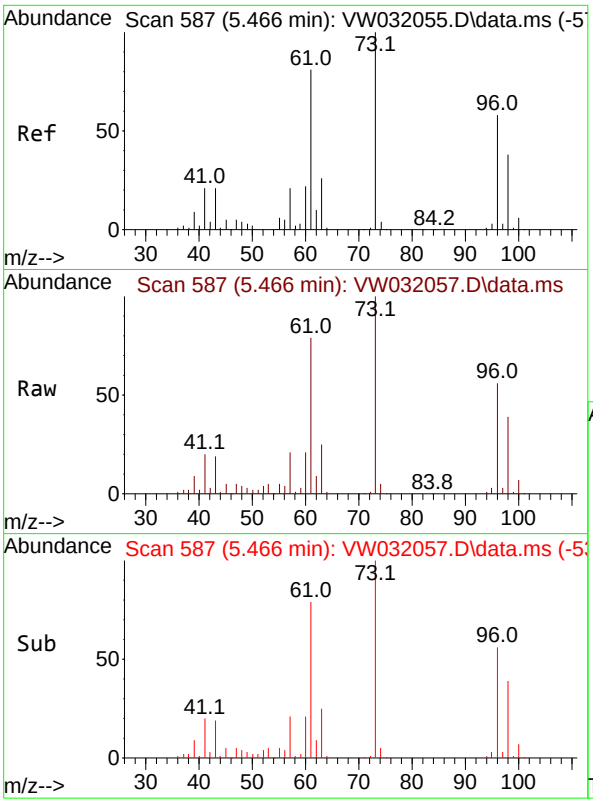




#18
Methyl Acetate
Concen: 155.895 ug/l
RT: 4.710 min Scan# 463
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 43 Resp: 371024

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 25.4 | 20.6 | 31.0 |



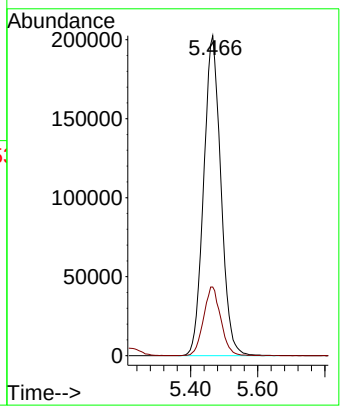


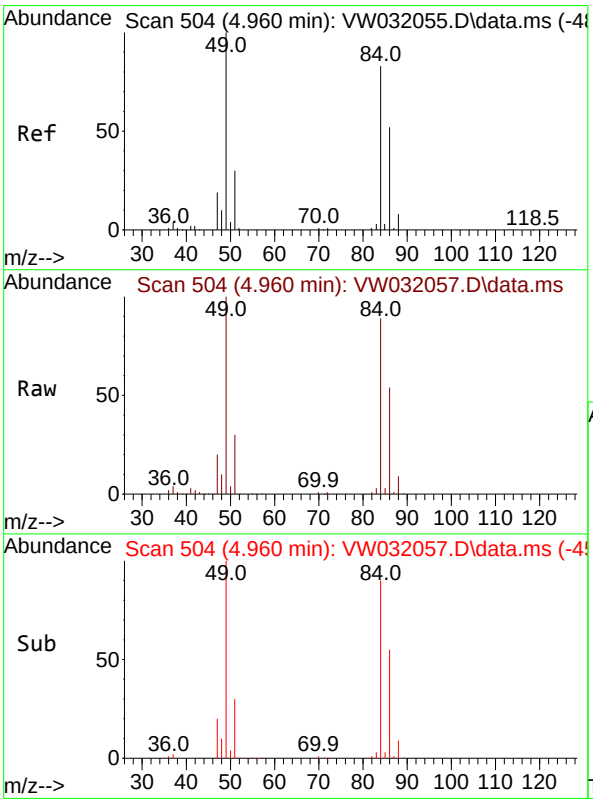

#19
Methyl tert-butyl Ether
Concen: 149.999 ug/l
RT: 5.466 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion: 73 Resp: 719923

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.4 | 17.2 | 25.8 |

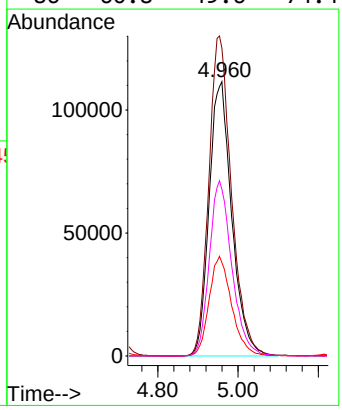


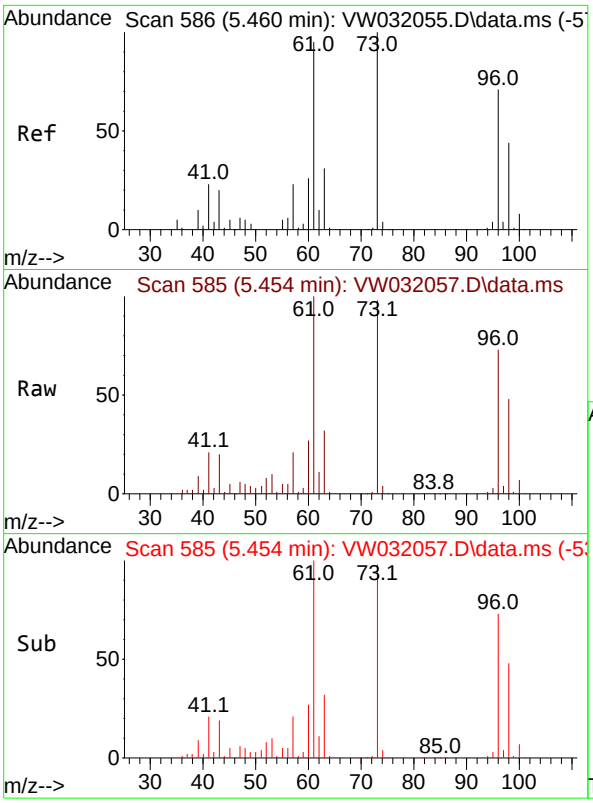




#20
Methylene Chloride
Concen: 125.744 ug/l
RT: 4.960 min Scan# 504
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 84 Resp: 437275

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 112.3 | 95.9 | 143.9 |
| 51 | 34.1 | 28.6 | 43.0 |
| 86 | 60.8 | 49.6 | 74.4 |



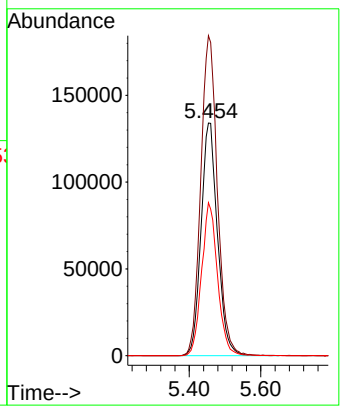


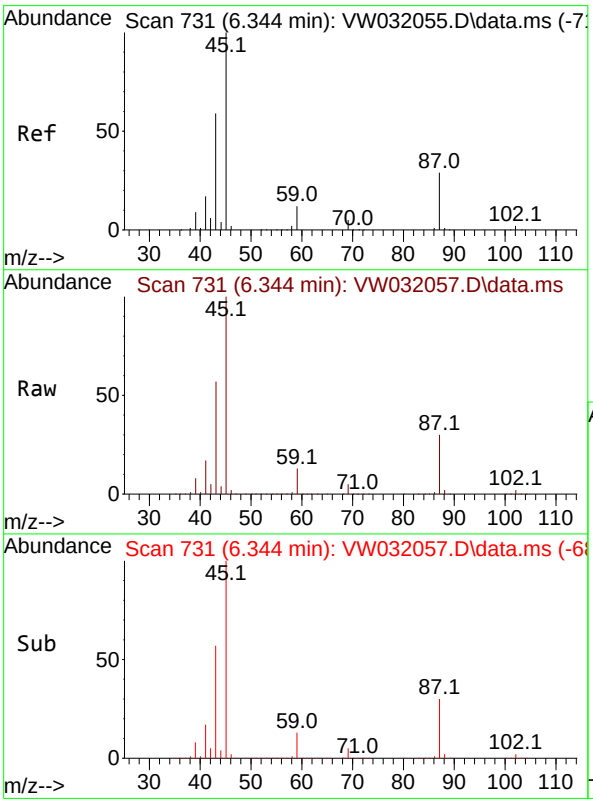

#21
trans-1,2-Dichloroethene
Concen: 147.794 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion: 96 Resp: 427242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 137.5 | 106.8 | 160.2 |
| 98 | 65.7 | 49.6 | 74.4 |

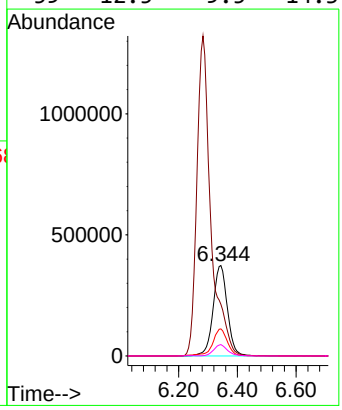


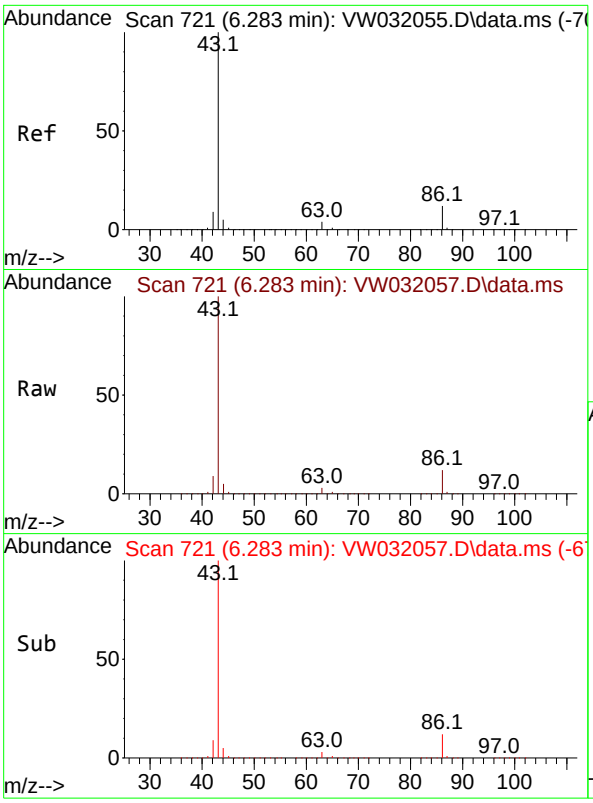




#22
Diisopropyl ether
Concen: 150.866 ug/l
RT: 6.344 min Scan# 731
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 45 Resp: 1260898

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 57.1 | 47.0 | 70.4 |
| 87 | 30.0 | 23.8 | 35.8 |
| 59 | 12.5 | 9.5 | 14.3 |



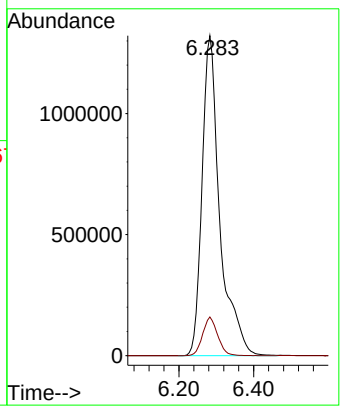


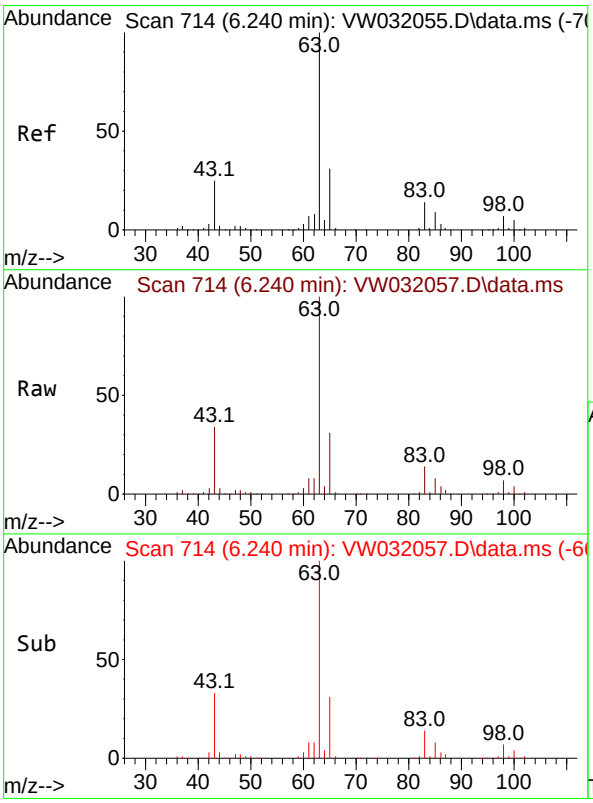

#23
Vinyl Acetate
Concen: 793.927 ug/l
RT: 6.283 min Scan# 7
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion: 43 Resp: 4356523

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 12.1 | 9.4 | 14.0 |

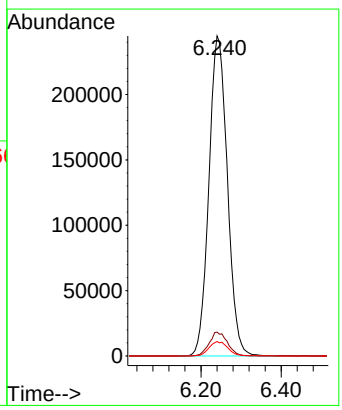


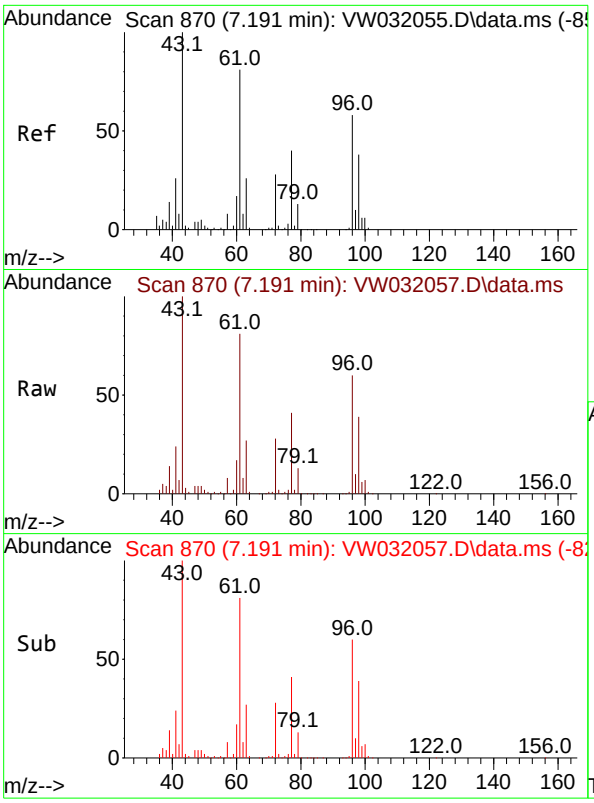




#24
1,1-Dichloroethane
Concen: 146.472 ug/l
RT: 6.240 min Scan# 714
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 63 Resp: 782153

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.5 | 3.7 | 11.1 |
| 100 | 4.5 | 2.5 | 7.4 |



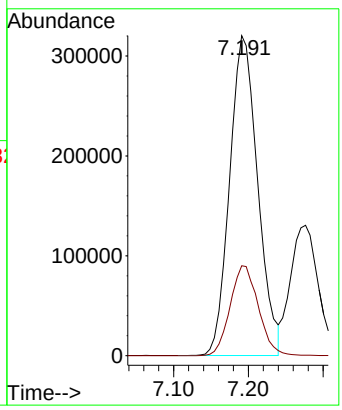


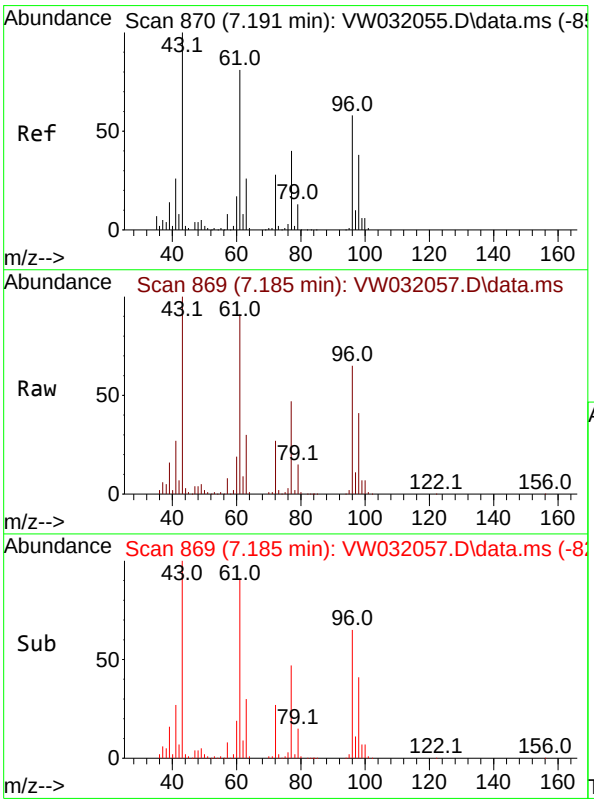

#25
2-Butanone
Concen: 783.936 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion: 43 Resp: 837991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 28.1 | 22.3 | 33.5 |

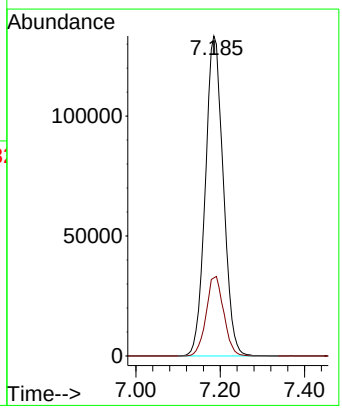


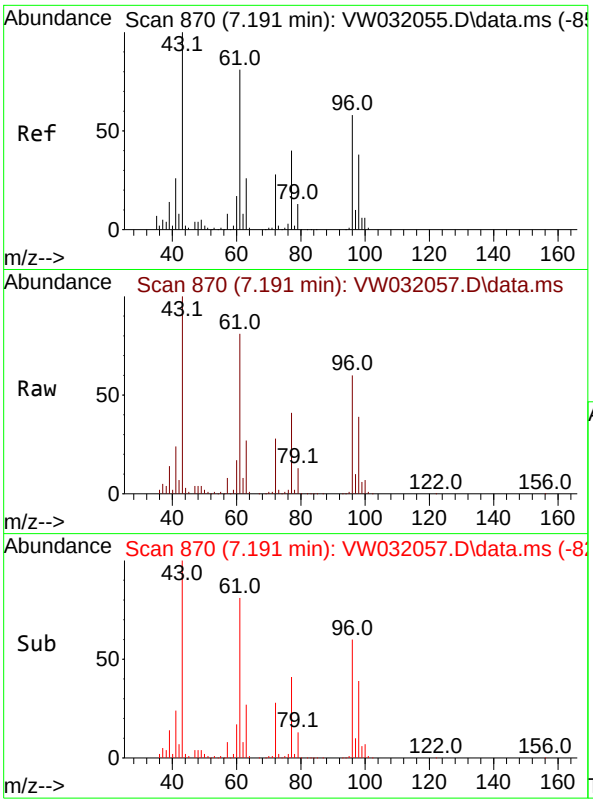




#26
2,2-Dichloropropane
Concen: 147.064 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 77 Resp: 393976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 24.4 | 12.3 | 36.9 |



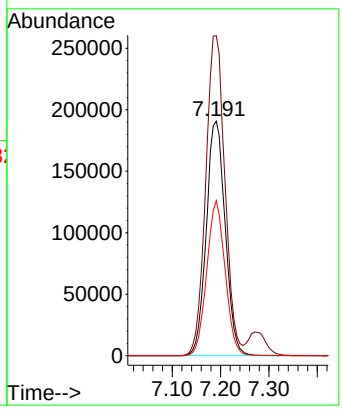


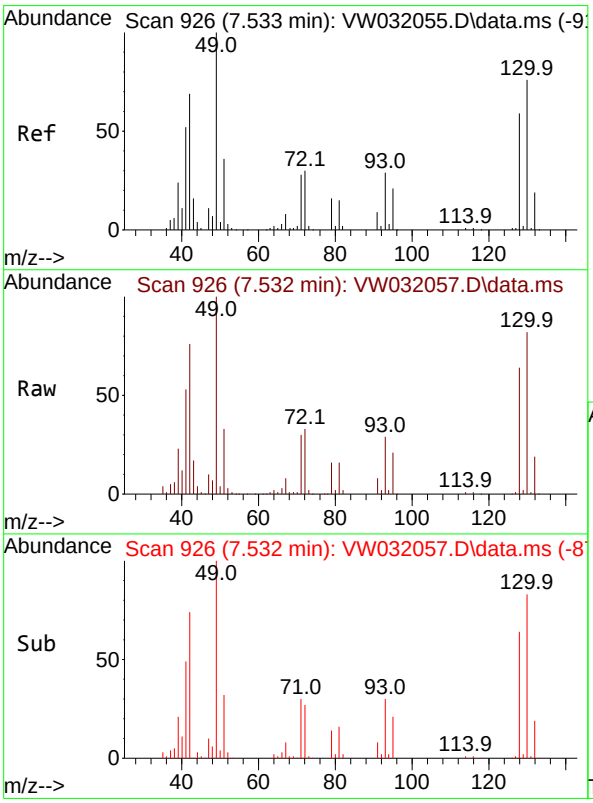

#27
cis-1,2-Dichloroethene
Concen: 153.420 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion: 96 Resp: 518413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 138.5 | 0.0 | 281.2 |
| 98 | 64.2 | 0.0 | 130.8 |

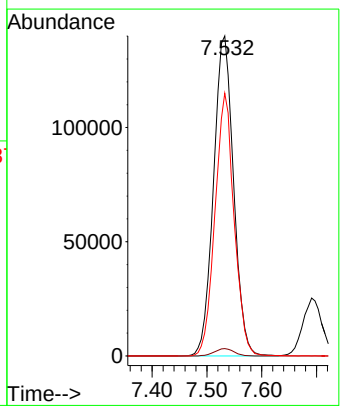


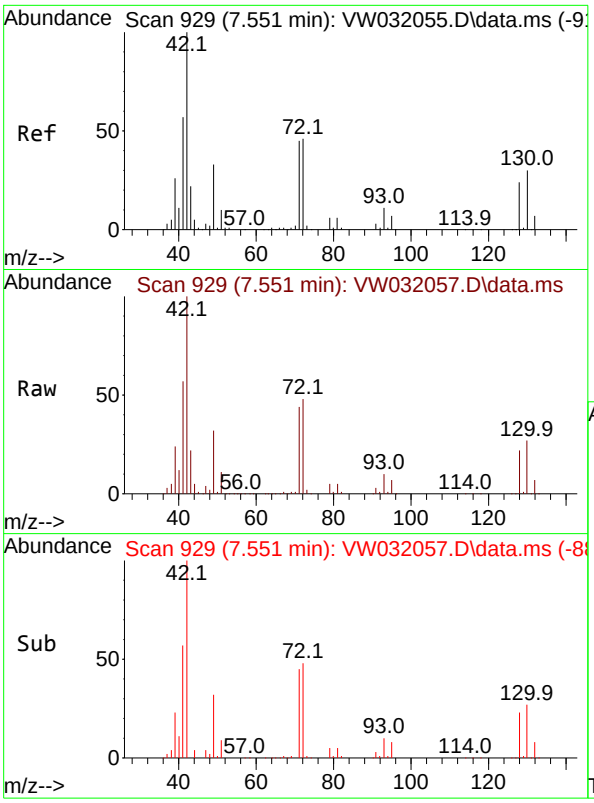




#28
Bromochloromethane
Concen: 146.781 ug/l
RT: 7.532 min Scan# 926
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 49 Resp: 356684

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.2 | 0.0 | 4.2 |
| 130 | 78.3 | 61.9 | 92.9 |



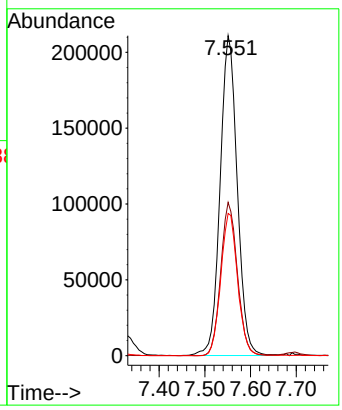


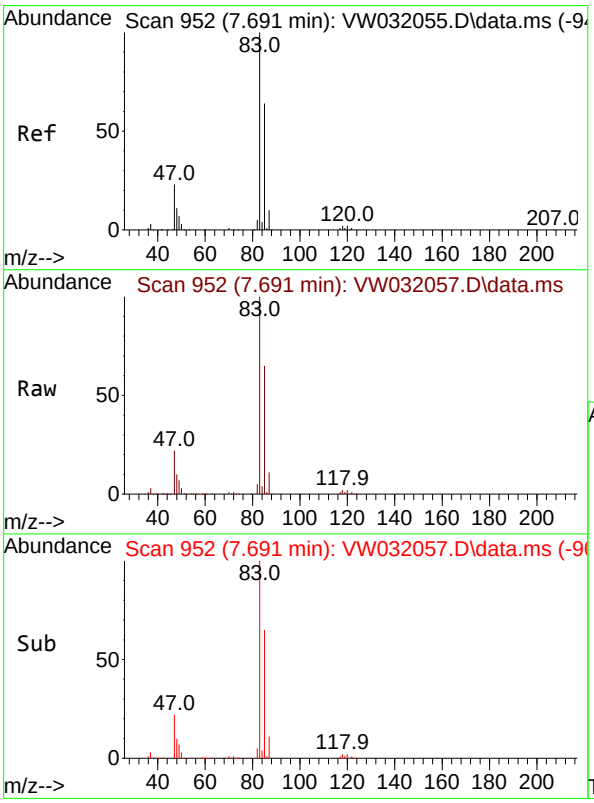

#29
Tetrahydrofuran
Concen: 779.054 ug/l
RT: 7.551 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion: 42 Resp: 549203

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 46.7 | 36.6 | 55.0 |
| 71 | 43.8 | 34.7 | 52.1 |

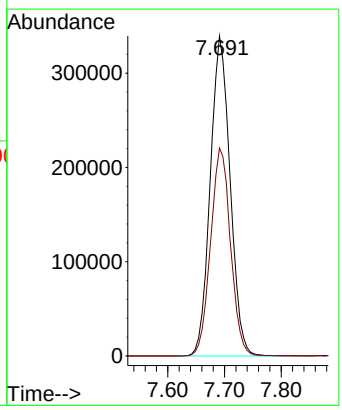


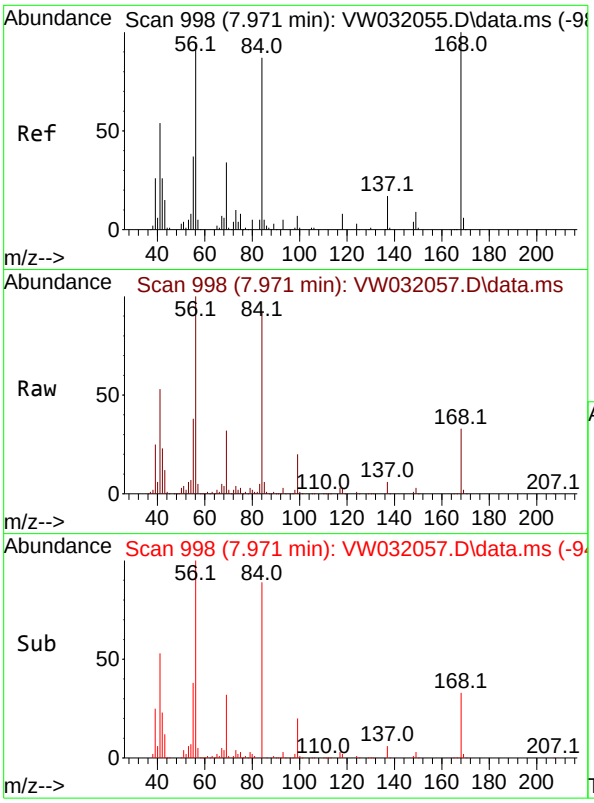




#30
Chloroform
Concen: 145.528 ug/l
RT: 7.691 min Scan# 952
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 83 Resp: 823850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.9 | 51.0 | 76.4 |



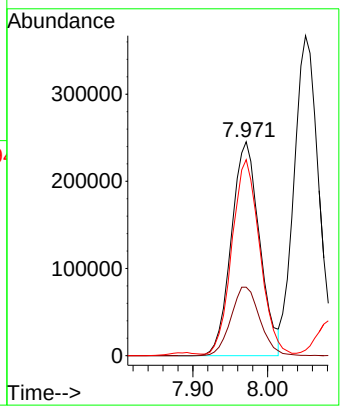


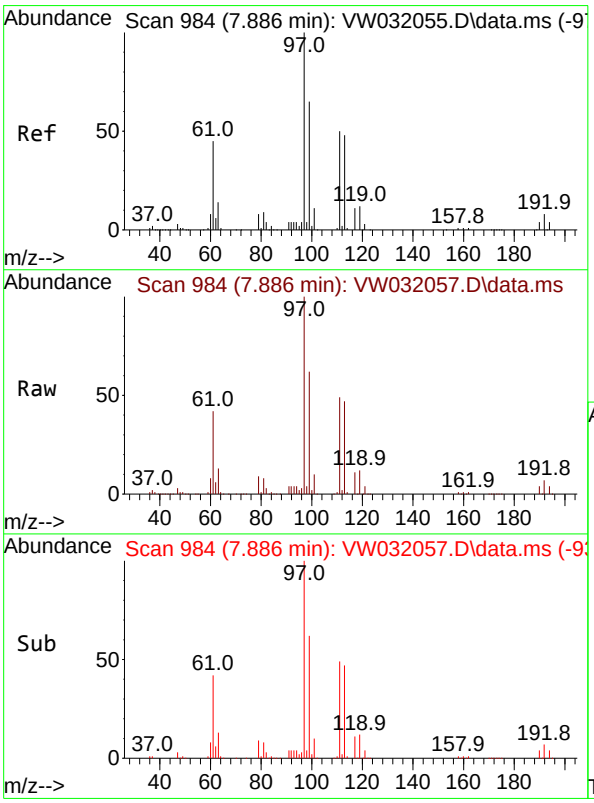

#31
Cyclohexane
Concen: 139.490 ug/l
RT: 7.971 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion: 56 Resp: 645762

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 32.0 | 28.6 | 42.8 |
| 84 | 90.3 | 73.0 | 109.4 |

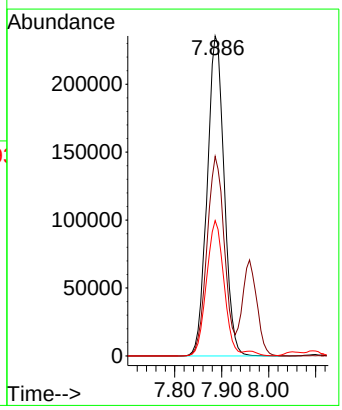


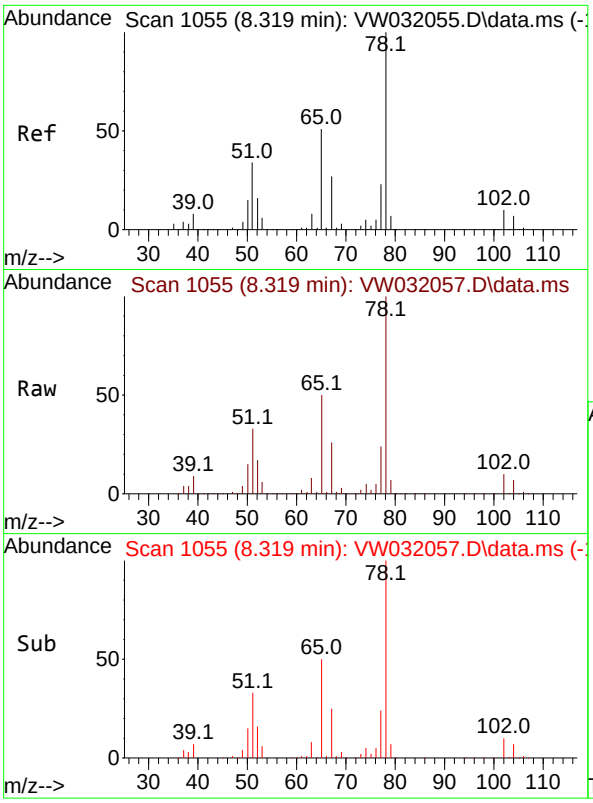




#32
1,1,1-Trichloroethane
Concen: 143.816 ug/l
RT: 7.886 min Scan# 984
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 97 Resp: 591372

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.0 | 51.8 | 77.8 |
| 61 | 43.3 | 35.9 | 53.9 |



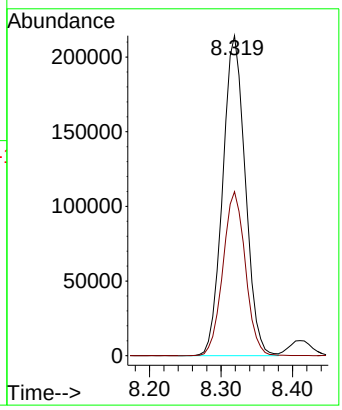


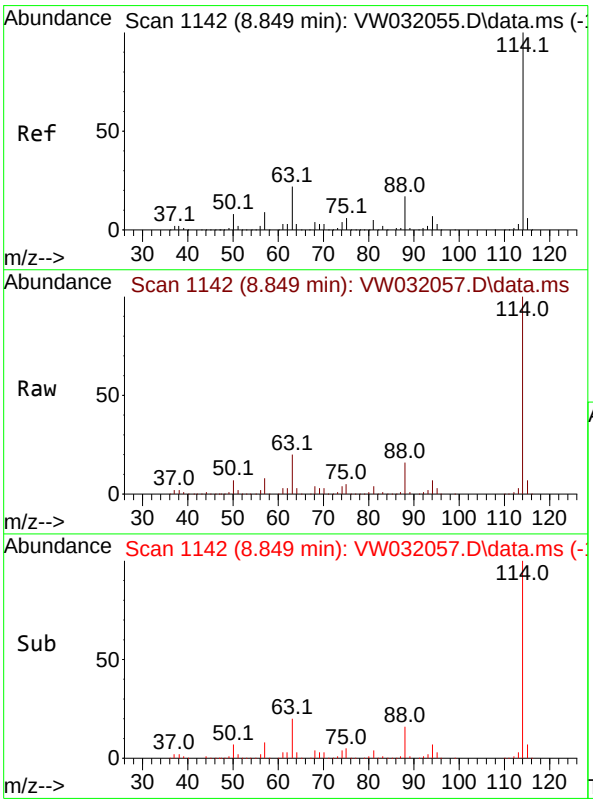

#33
1,2-Dichloroethane-d4
Concen: 144.584 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion: 65 Resp: 469688

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.0 | 0.0 | 102.4 |

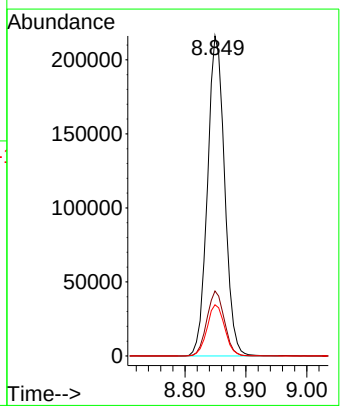


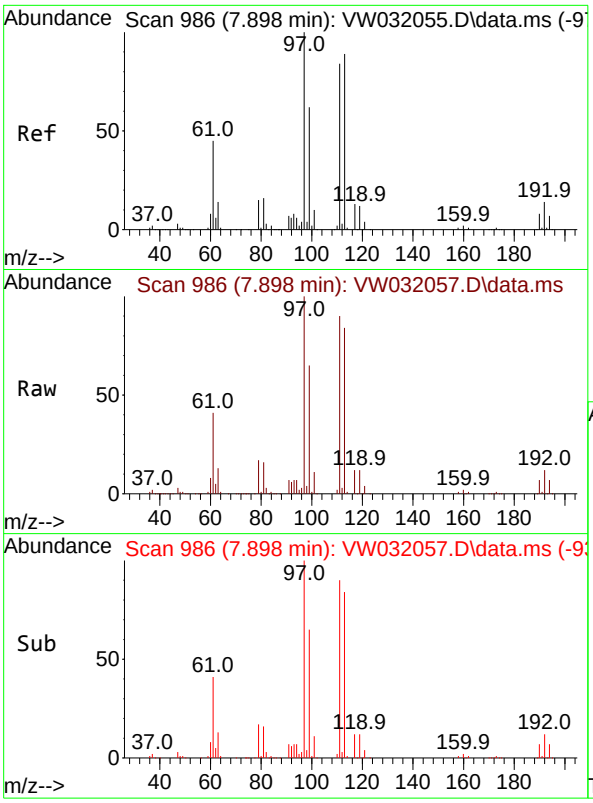




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:114 Resp: 422167

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.3 | 0.0 | 43.0 |
| 88 | 16.0 | 0.0 | 33.8 |



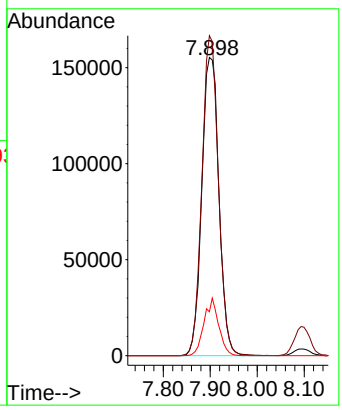


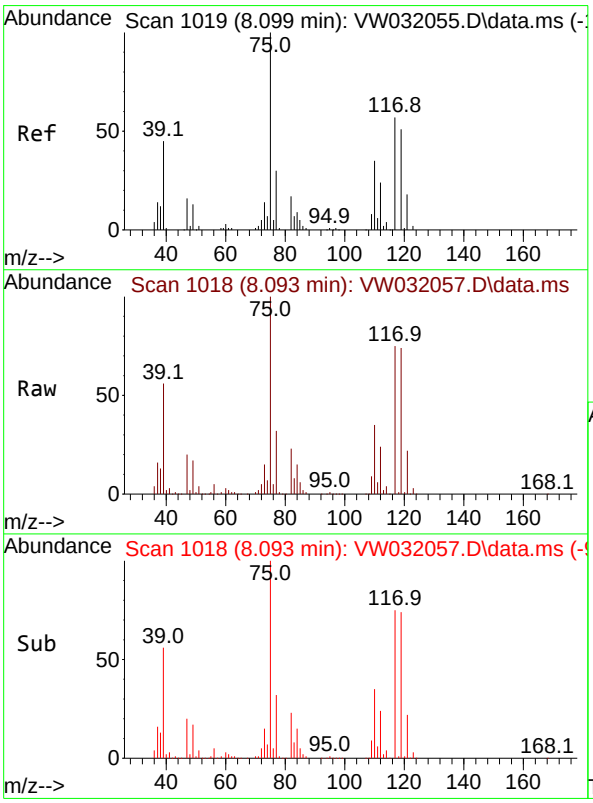

#35
Dibromofluoromethane
Concen: 144.207 ug/l
RT: 7.898 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion:113 Resp: 393306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.0 | 80.1 | 120.1 |
| 192 | 16.5 | 13.1 | 19.7 |

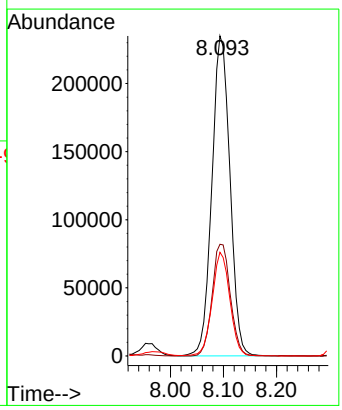


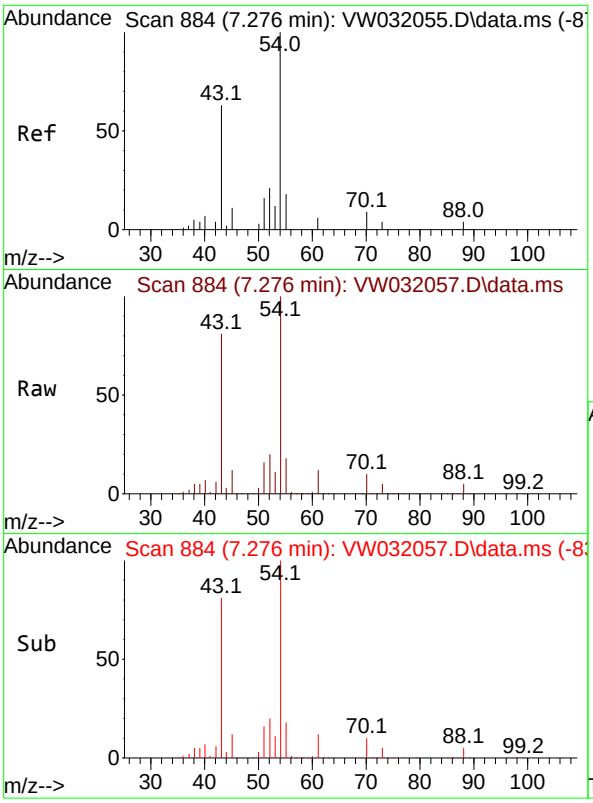




#36
1,1-Dichloropropene
Concen: 144.659 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 75 Resp: 556189

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.2 | 17.4 | 52.2 |
| 77 | 31.7 | 24.7 | 37.1 |



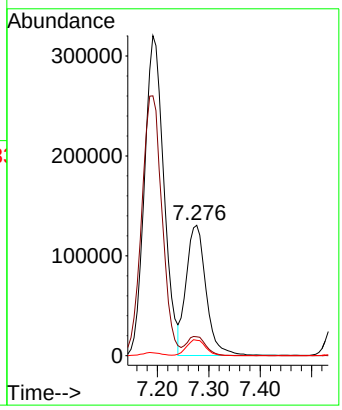


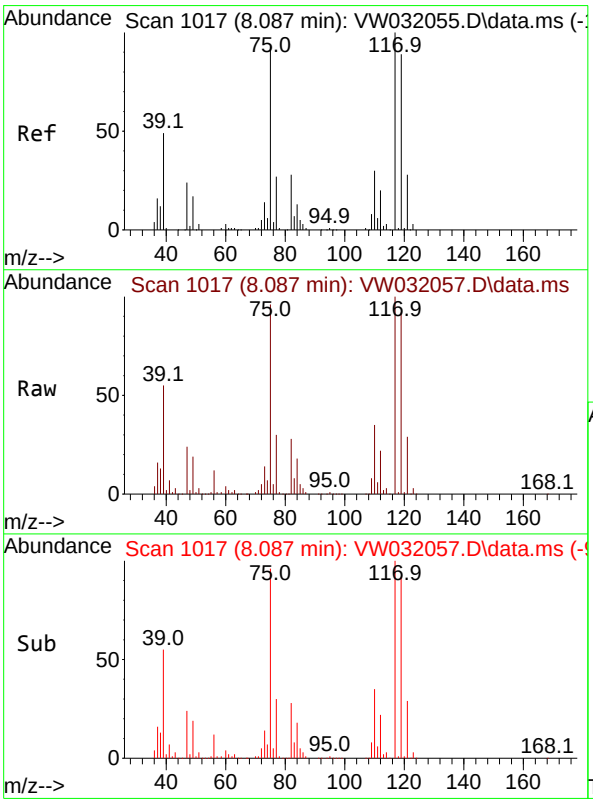

#37
Ethyl Acetate
Concen: 154.109 ug/l
RT: 7.276 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion: 43 Resp: 348970

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.4 | 11.8 | 17.6 |
| 70 | 11.8 | 9.4 | 14.0 |

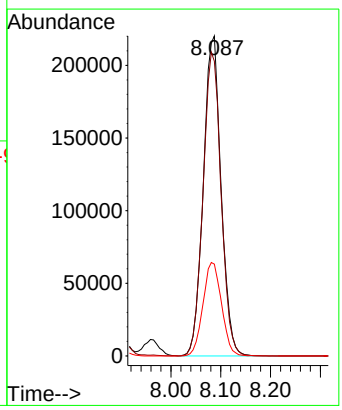


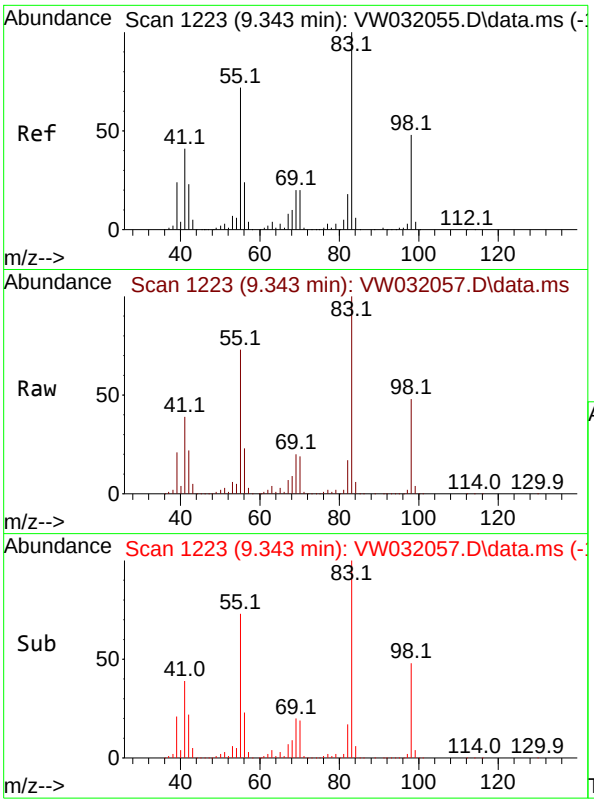




#38
Carbon Tetrachloride
Concen: 146.799 ug/l
RT: 8.087 min Scan# 1017
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:117 Resp: 544688

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 92.1 | 71.4 | 107.2 |
| 121 | 28.7 | 22.3 | 33.5 |



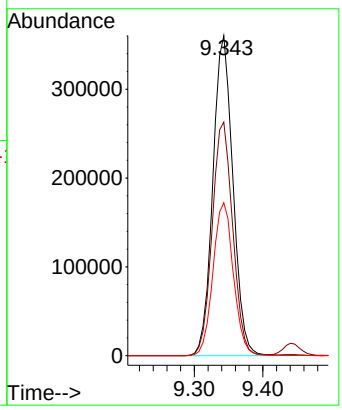


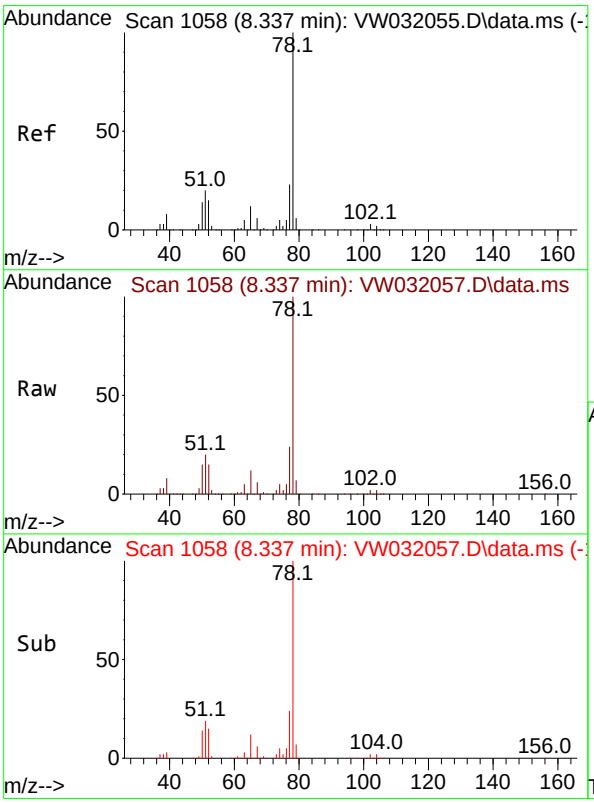

#39
Methylcyclohexane
Concen: 156.286 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion: 83 Resp: 732413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 73.0 | 57.9 | 86.9 |
| 98 | 47.8 | 38.3 | 57.5 |

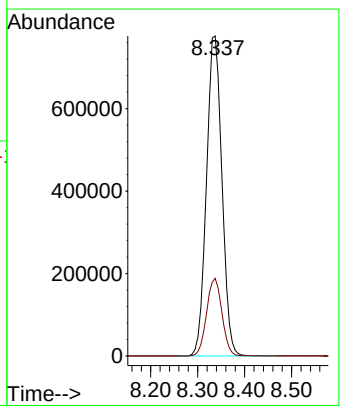


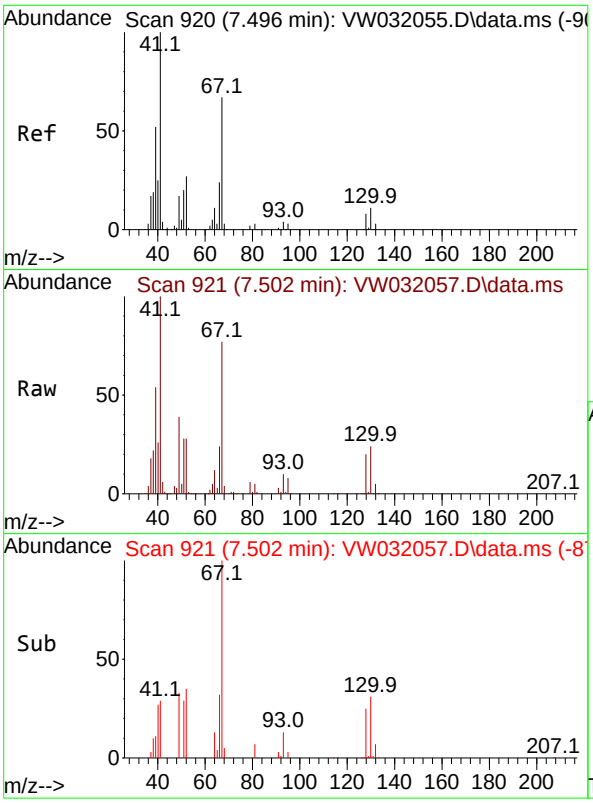




#40
Benzene
Concen: 148.159 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 78 Resp: 1770706

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.3 | 18.4 | 27.6 |



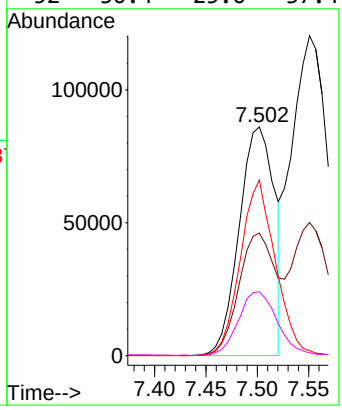


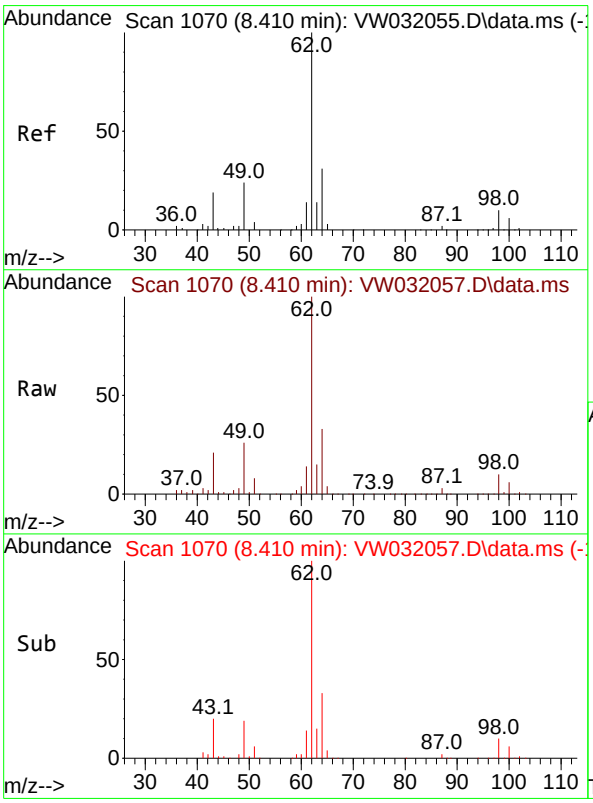

#41
Methacrylonitrile
Concen: 160.204 ug/l
RT: 7.502 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion: 41 Resp: 205729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 58.7 | 42.6 | 63.8 |
| 67 | 76.7 | 61.0 | 91.4 |
| 52 | 30.4 | 25.0 | 37.4 |

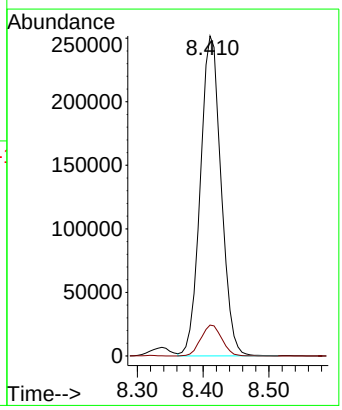


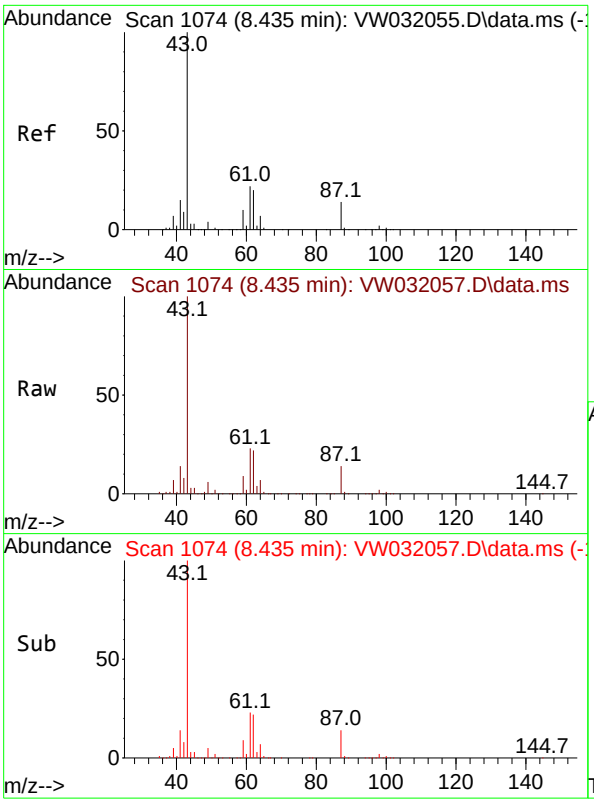




#42
1,2-Dichloroethane
Concen: 144.388 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 62 Resp: 552184

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.8 | 0.0 | 19.8 |



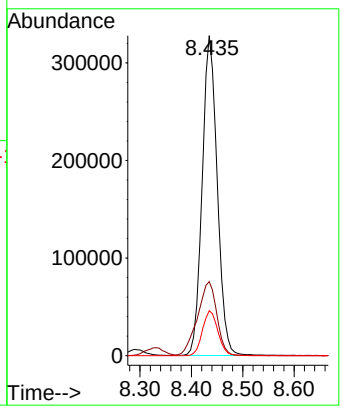


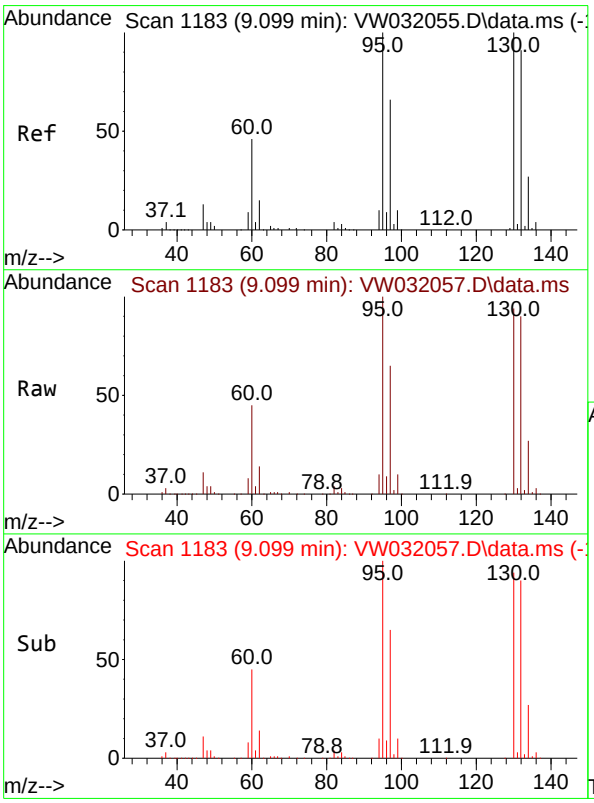

#43
Isopropyl Acetate
Concen: 159.788 ug/l
RT: 8.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion: 43 Resp: 665712

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 29.7 | 23.8 | 35.8 |
| 87 | 14.5 | 11.7 | 17.5 |

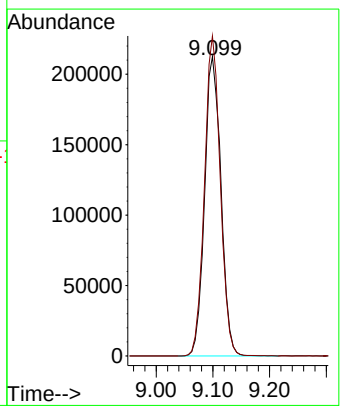


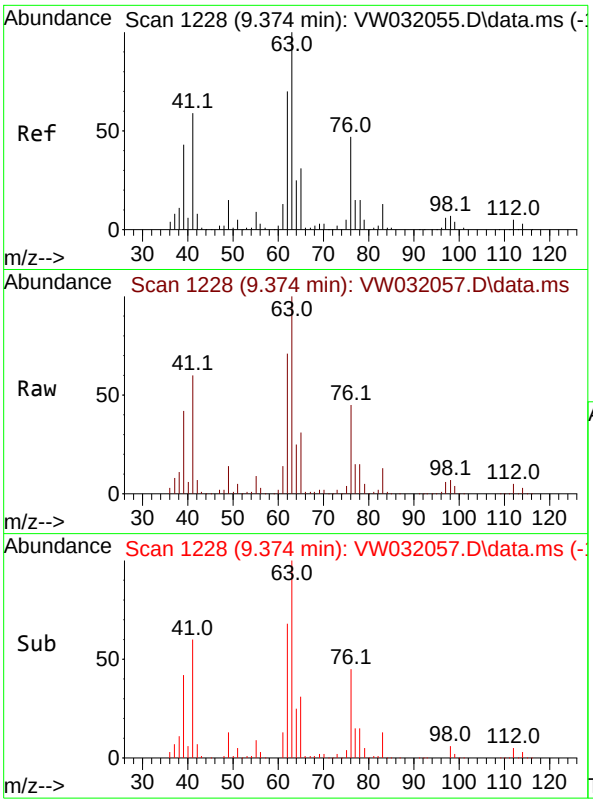




#44
Trichloroethene
Concen: 149.281 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:130 Resp: 424873

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 106.9 | 0.0 | 200.6 |



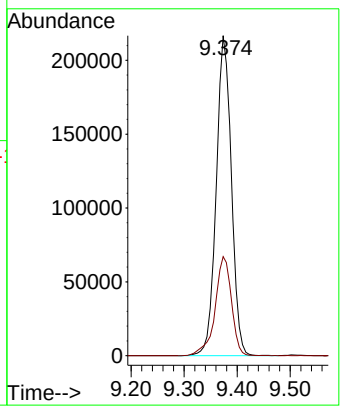


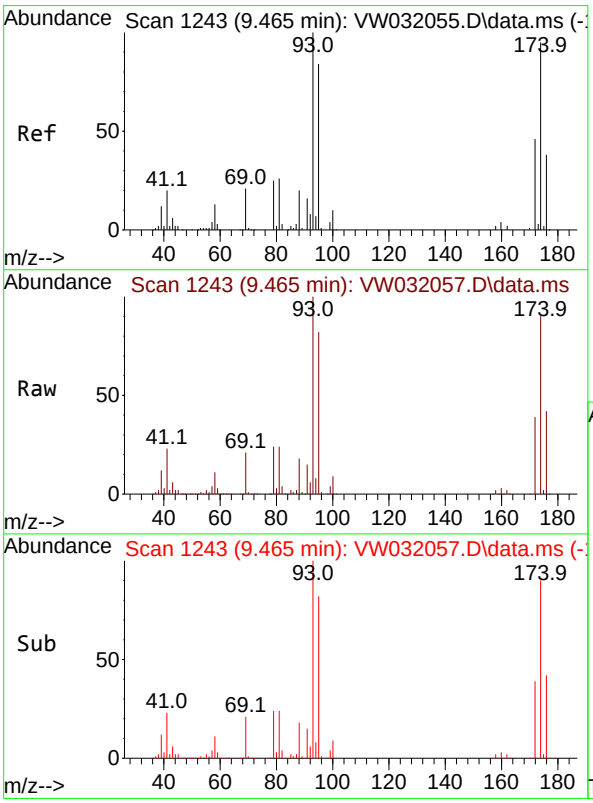

#45
1,2-Dichloropropane
Concen: 148.679 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion: 63 Resp: 429280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.9 | 24.6 | 36.8 |

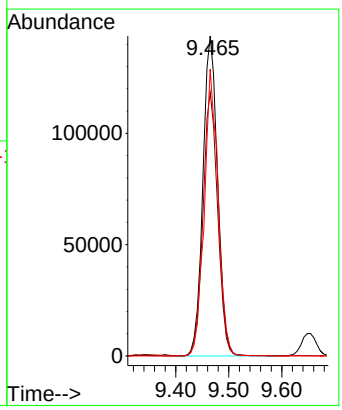


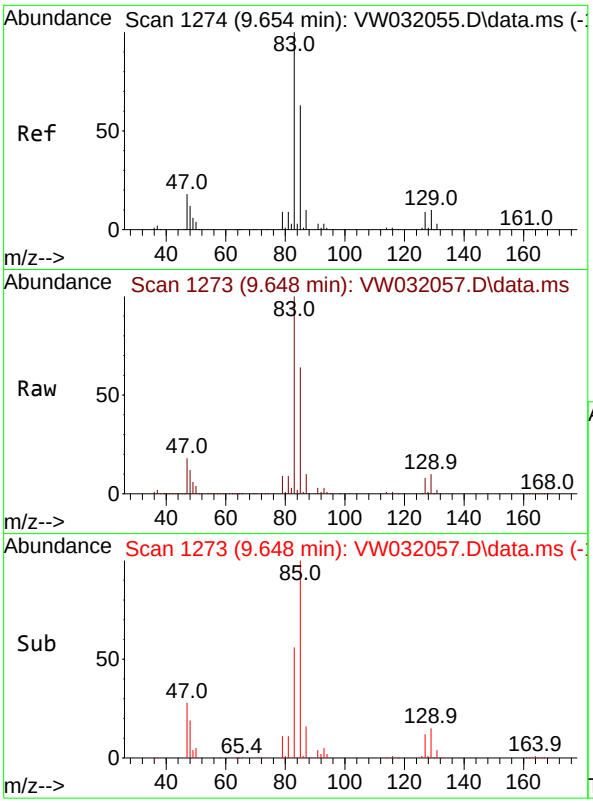




#46
Dibromomethane
Concen: 148.678 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 93 Resp: 277058

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.2 | 65.3 | 97.9 |
| 174 | 84.7 | 68.6 | 102.8 |



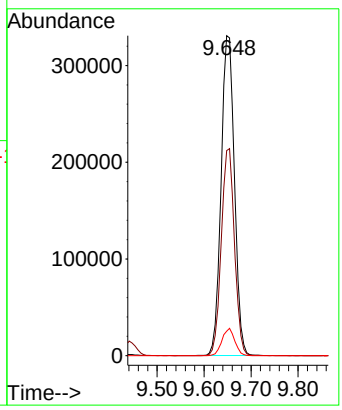


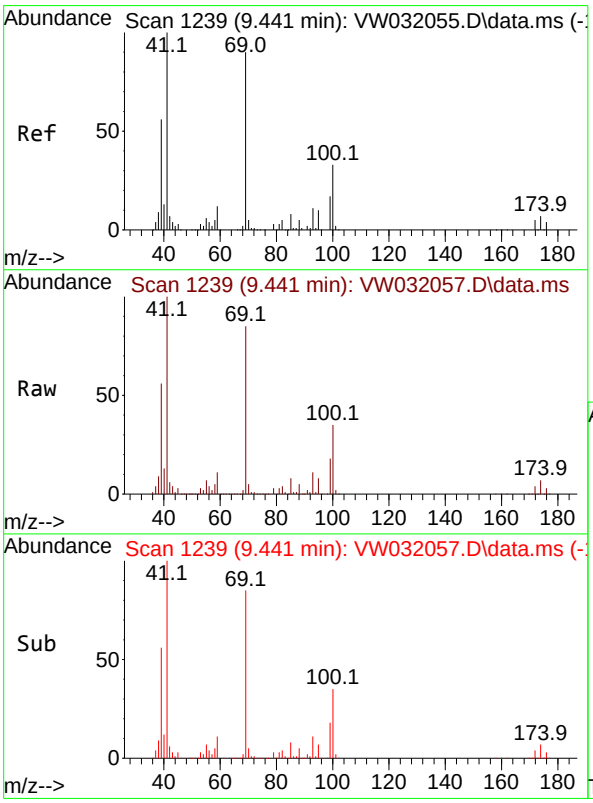

#47
Bromodichloromethane
Concen: 152.185 ug/l
RT: 9.648 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion: 83 Resp: 653476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.1 | 50.6 | 75.8 |
| 127 | 7.7 | 6.9 | 10.3 |

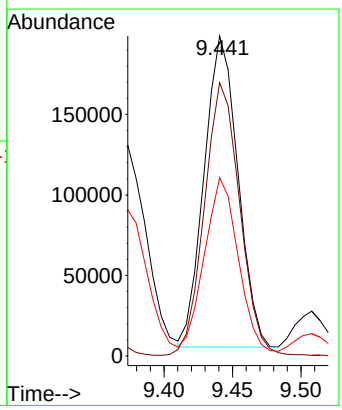


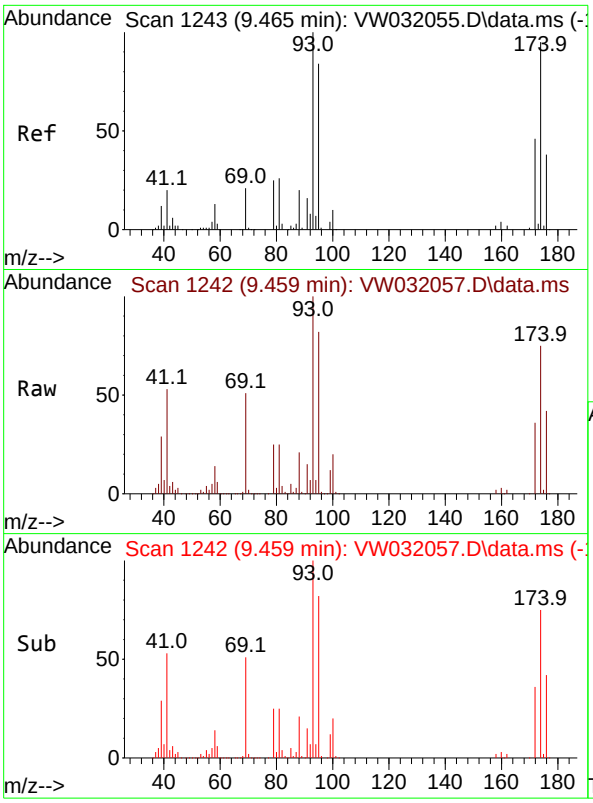




#48
Methyl methacrylate
Concen: 164.326 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 41 Resp: 330511

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 92.4 | 73.0 | 109.6 |
| 39 | 55.2 | 45.0 | 67.4 |



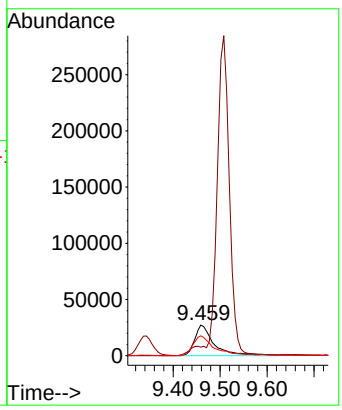


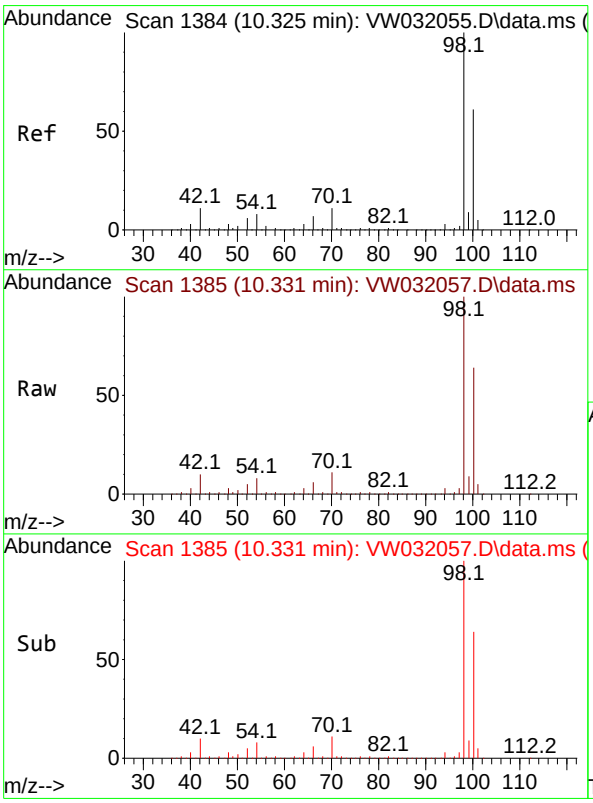

#49
1,4-Dioxane
Concen: 3279.484 ug/l
RT: 9.459 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion: 88 Resp: 79016

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 0.0 | 20.6 | 30.8# |
| 58 | 70.8 | 60.4 | 90.6 |

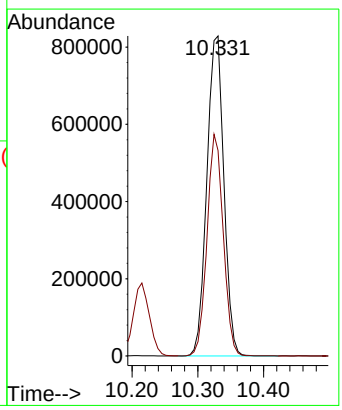


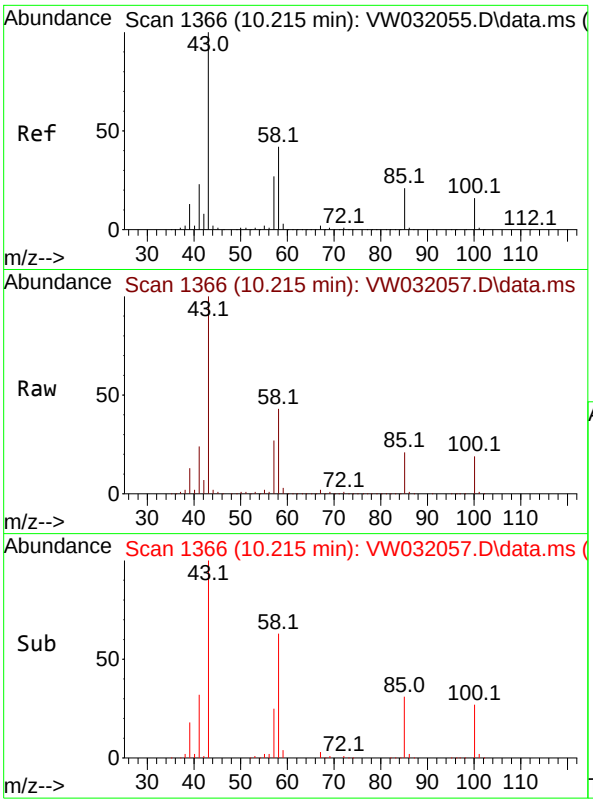




#50
Toluene-d8
Concen: 147.908 ug/l
RT: 10.331 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 98 Resp: 1492050

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.0 | 51.1 | 76.7 |



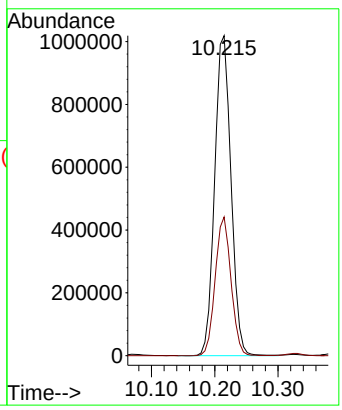


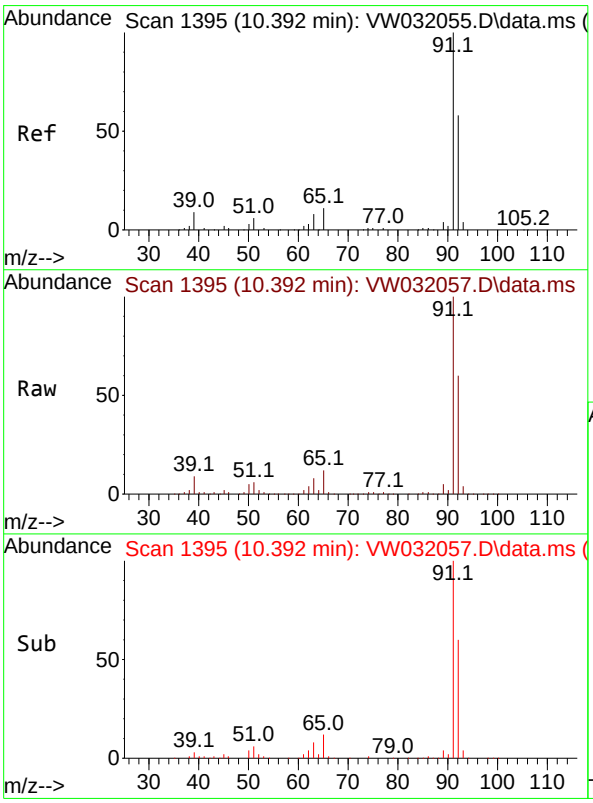

#51
4-Methyl-2-Pentanone
Concen: 772.800 ug/l
RT: 10.215 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion: 43 Resp: 1817273

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 42.0 | 33.1 | 49.7 |

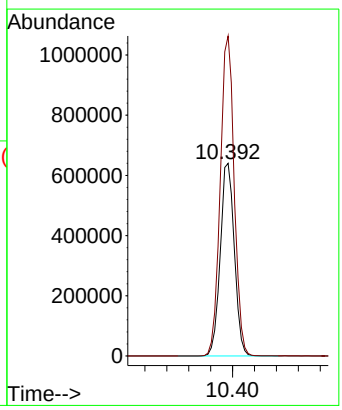


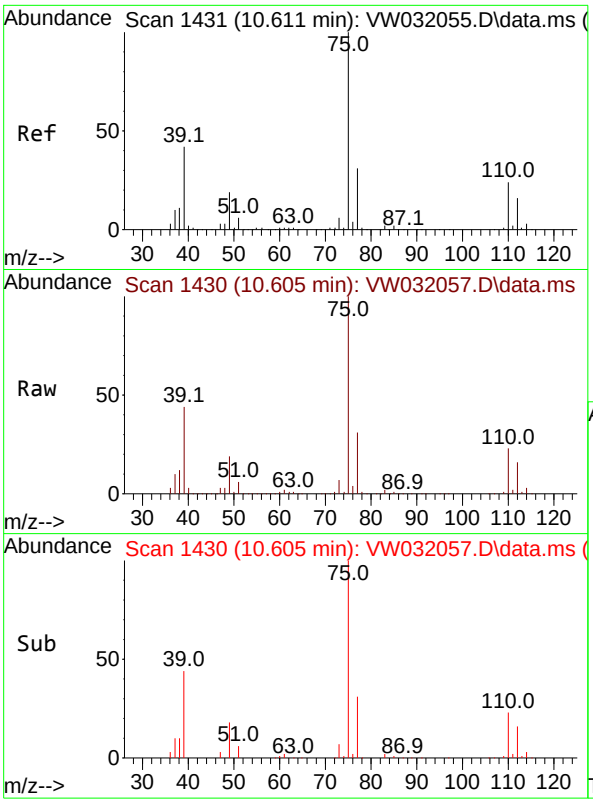




#52
Toluene
Concen: 151.812 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 92 Resp: 1142813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 164.7 | 136.3 | 204.5 |



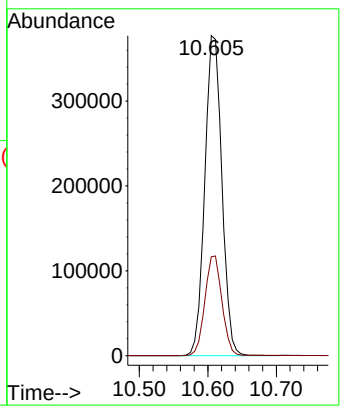


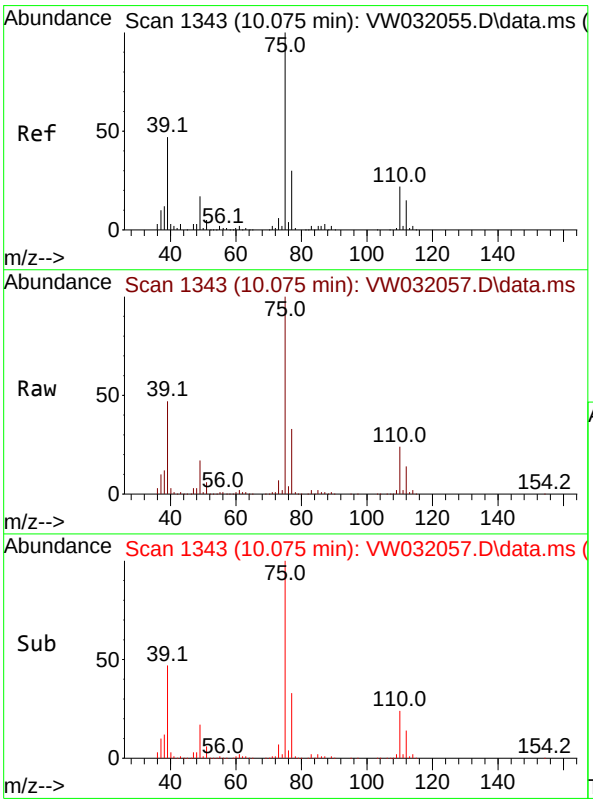

#53
t-1,3-Dichloropropene
Concen: 162.760 ug/l
RT: 10.605 min Scan# 14
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion: 75 Resp: 654765

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.9 | 25.0 | 37.6 |

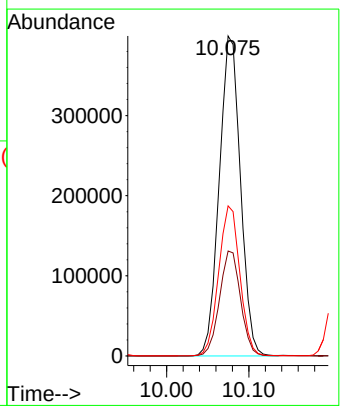


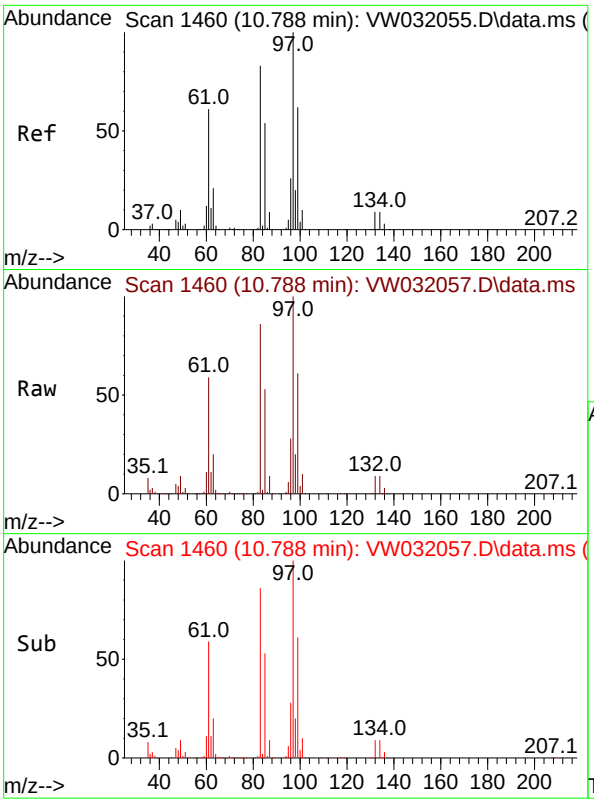




#54
cis-1,3-Dichloropropene
Concen: 157.011 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 75 Resp: 716583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.8 | 24.0 | 36.0 |
| 39 | 46.9 | 37.8 | 56.8 |



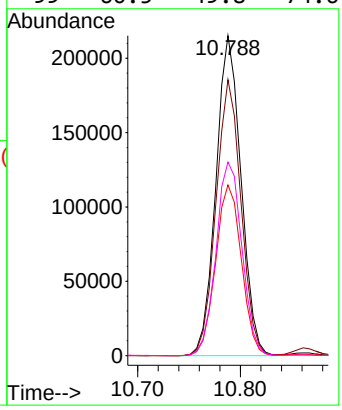


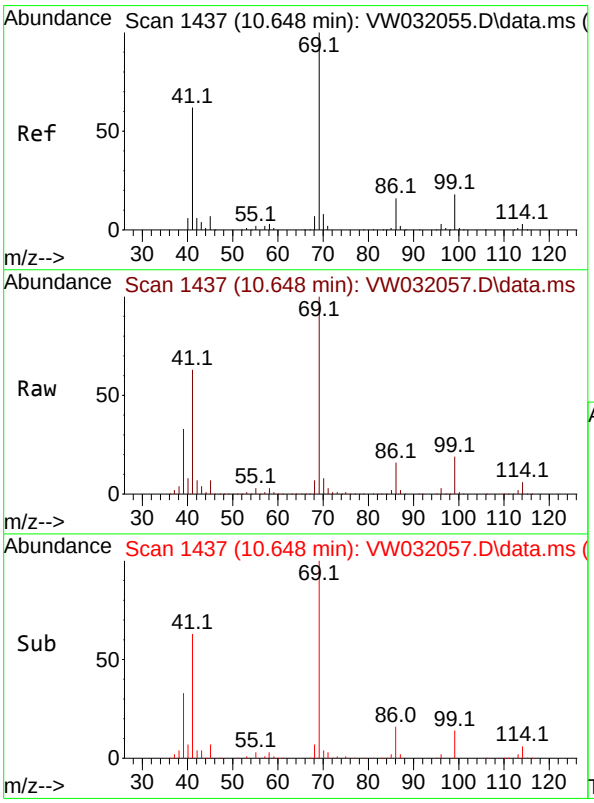

#55
1,1,2-Trichloroethane
Concen: 147.271 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion: 97 Resp: 364680

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 86.3 | 66.4 | 99.6 |
| 85 | 53.3 | 43.1 | 64.7 |
| 99 | 60.5 | 49.8 | 74.6 |

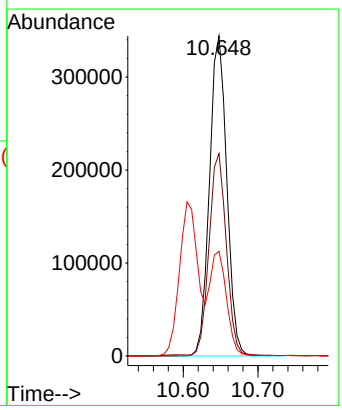


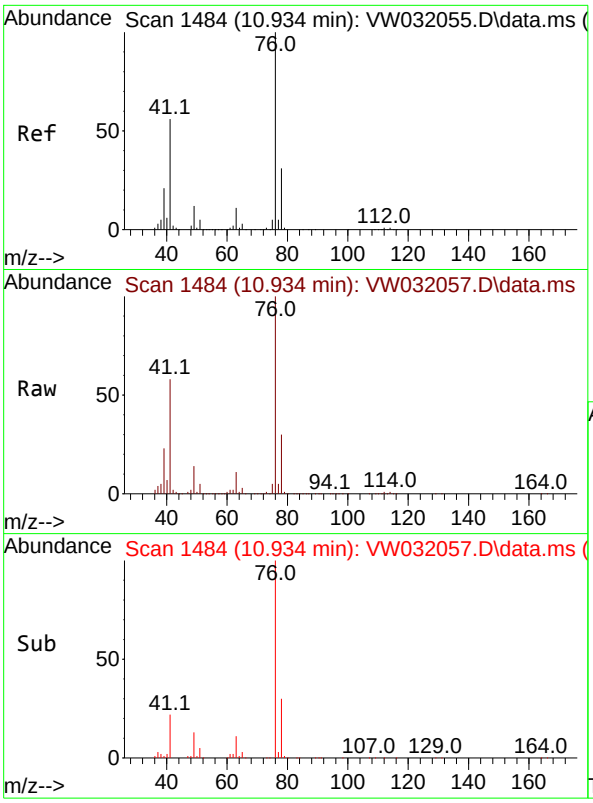




#56
Ethyl methacrylate
Concen: 166.963 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 69 Resp: 553265

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 62.9 | 51.2 | 76.8 |
| 39 | 30.8 | 25.4 | 38.0 |



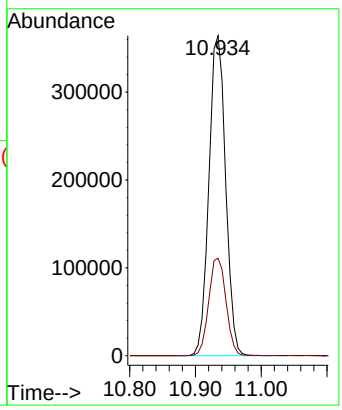


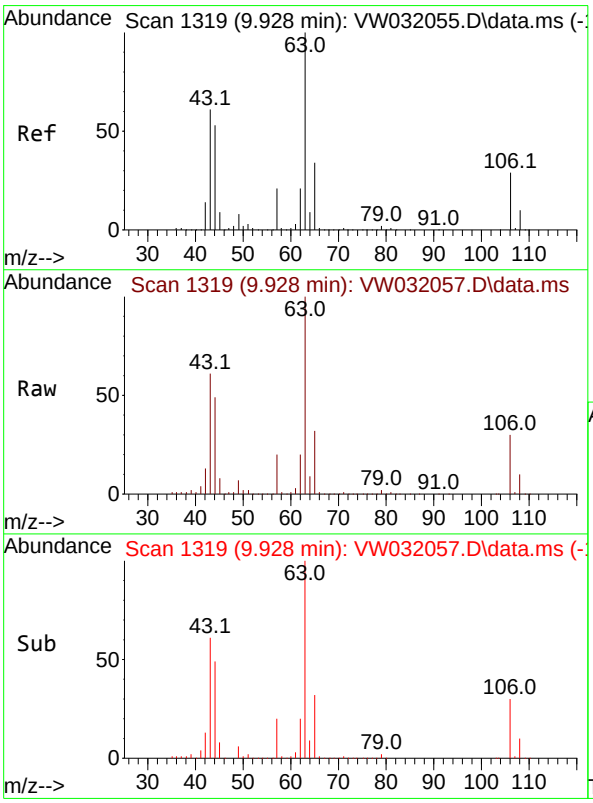

#57
1,3-Dichloropropane
Concen: 149.298 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion: 76 Resp: 644418

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 31.5 | 25.8 | 38.6 |

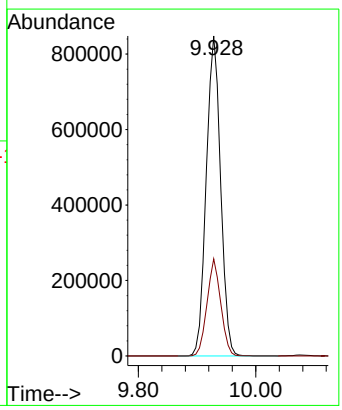


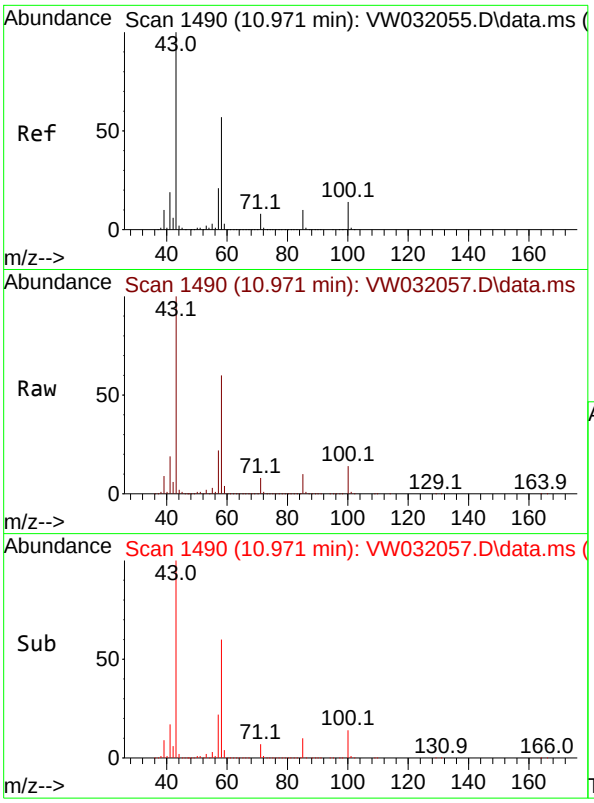




#58
2-Chloroethyl Vinyl ether
Concen: 784.377 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 63 Resp: 1437682

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 29.0 | 23.5 | 35.3 |



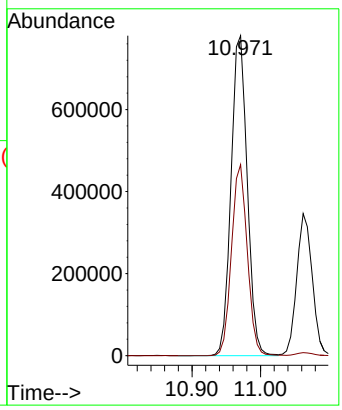


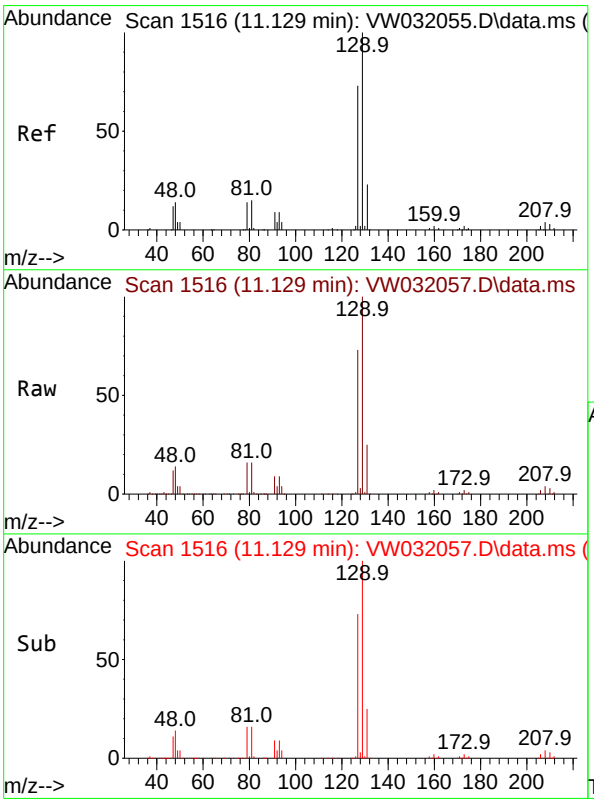

#59
2-Hexanone
Concen: 785.288 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion: 43 Resp: 1278917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 58.3 | 28.3 | 85.0 |

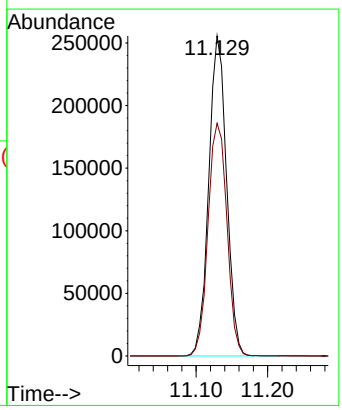


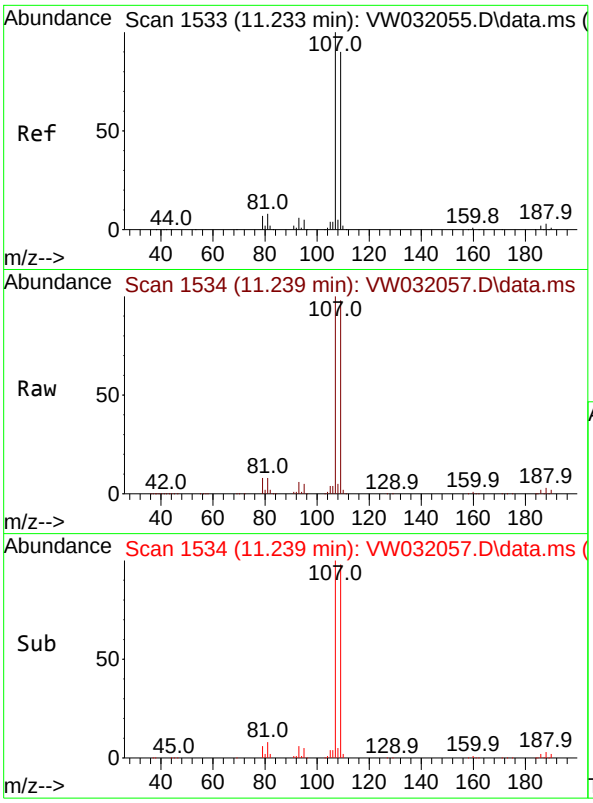




#60
Dibromochloromethane
Concen: 156.387 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:129 Resp: 442362

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.1 | 39.0 | 116.9 |



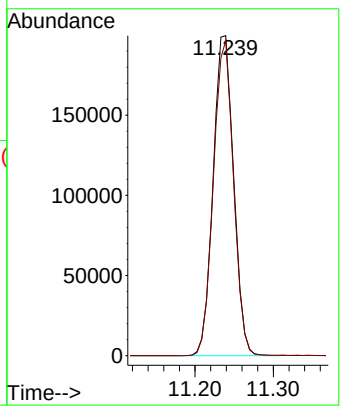


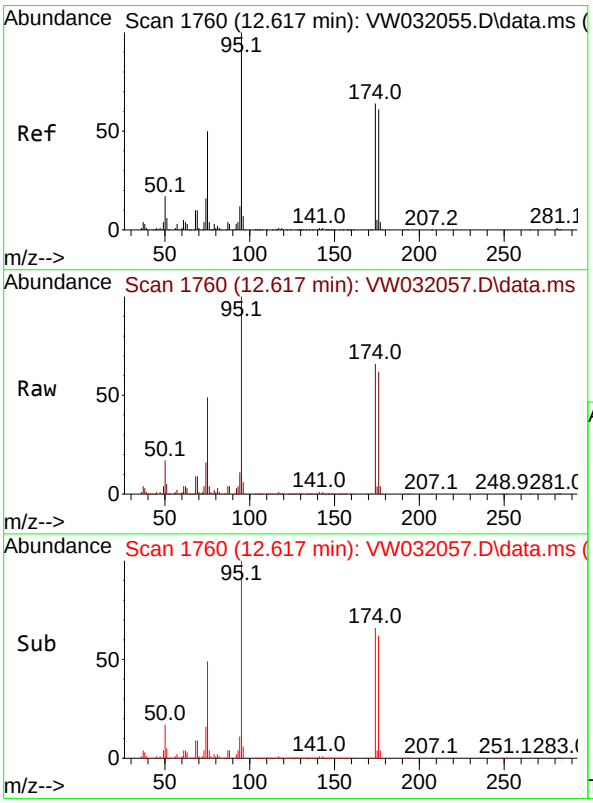

#61
1,2-Dibromoethane
Concen: 150.929 ug/l
RT: 11.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion:107 Resp: 363192

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 96.5 | 74.2 | 111.4 |

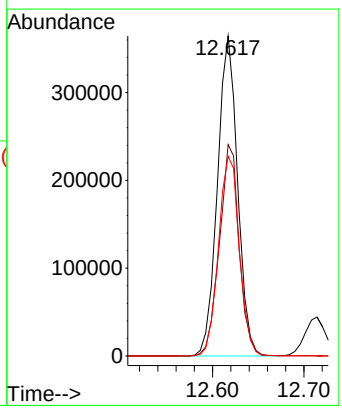


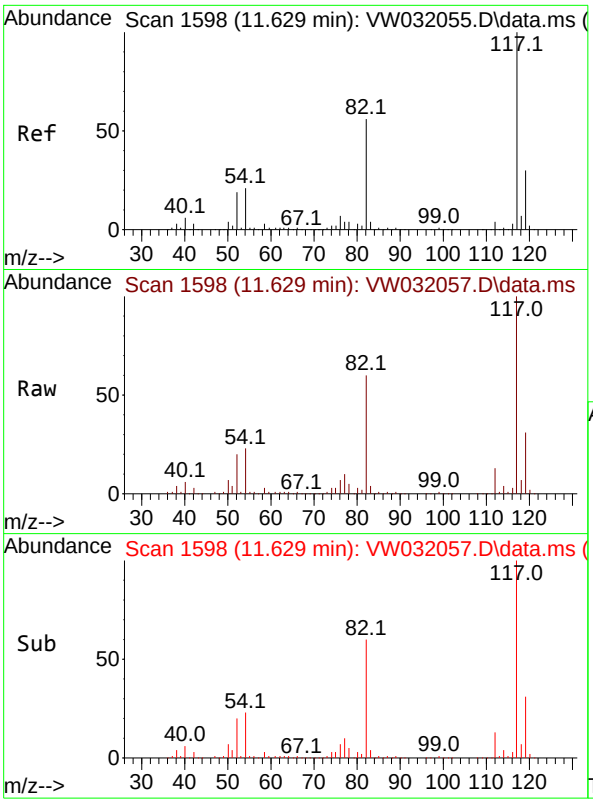




#62
4-Bromofluorobenzene
Concen: 150.185 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 95 Resp: 558308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 64.8 | 0.0 | 129.0 |
| 176 | 64.5 | 0.0 | 124.6 |



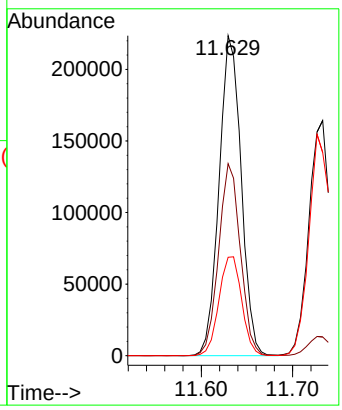


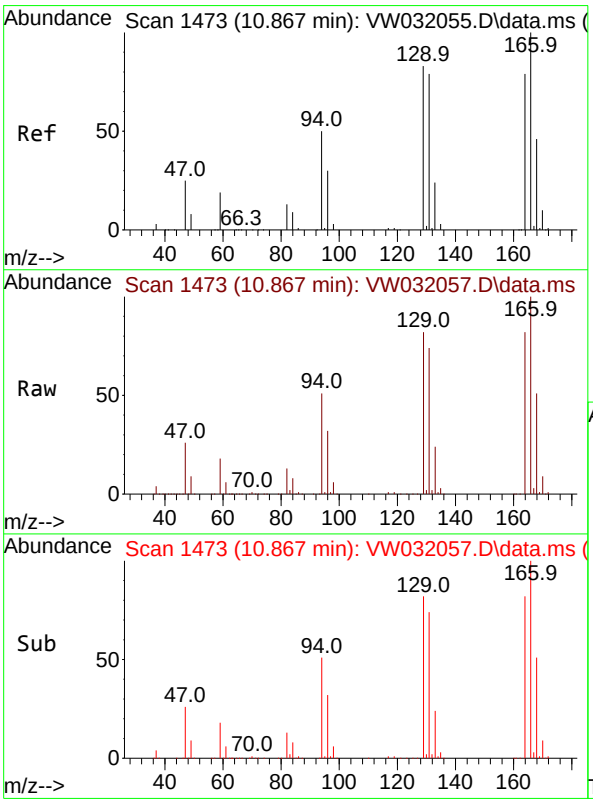

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion:117 Resp: 375277

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 59.9 | 45.0 | 67.4 |
| 119 | 30.8 | 24.2 | 36.4 |

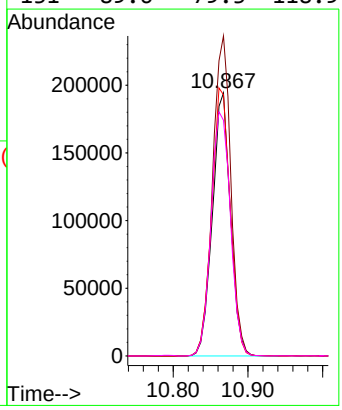


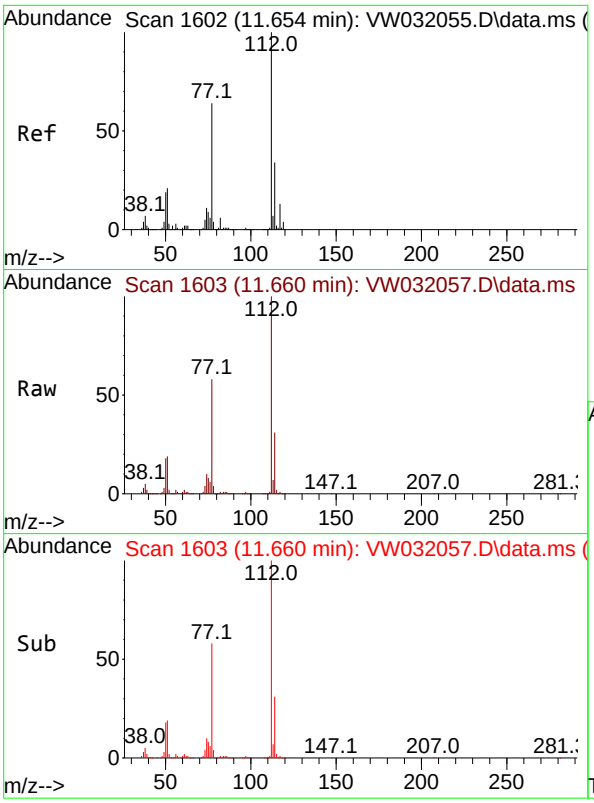




#64
Tetrachloroethene
Concen: 150.622 ug/l
RT: 10.867 min Scan# 1473
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:164 Resp: 326491

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 121.6 | 100.9 | 151.3 |
| 129 | 99.3 | 83.6 | 125.4 |
| 131 | 89.6 | 79.3 | 118.9 |



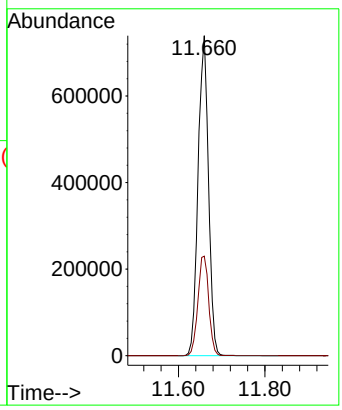


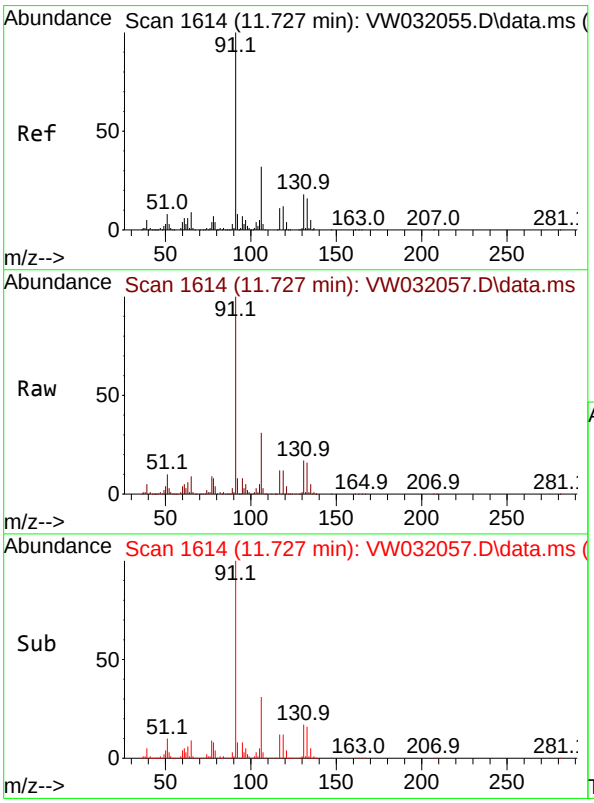

#65
Chlorobenzene
Concen: 150.609 ug/l
RT: 11.660 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion:112 Resp: 1230240

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.1 | 26.9 | 40.3 |

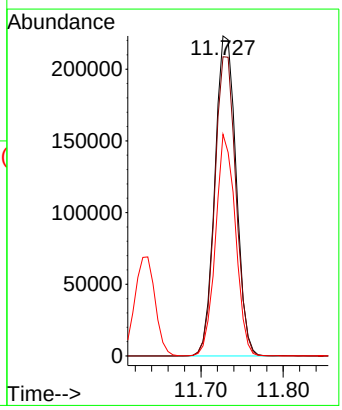


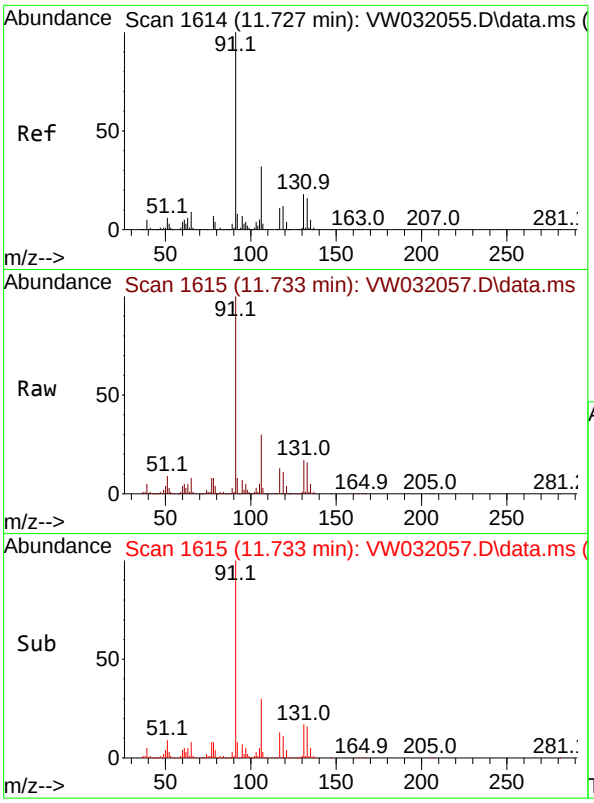




#66
1,1,1,2-Tetrachloroethane
Concen: 157.017 ug/l
RT: 11.727 min Scan# 1614
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:131 Resp: 400167

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 93.2 | 47.3 | 142.0 |
| 119 | 65.0 | 34.5 | 103.5 |



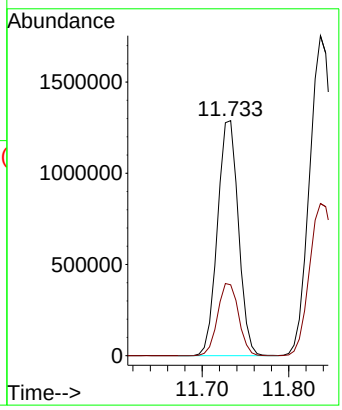


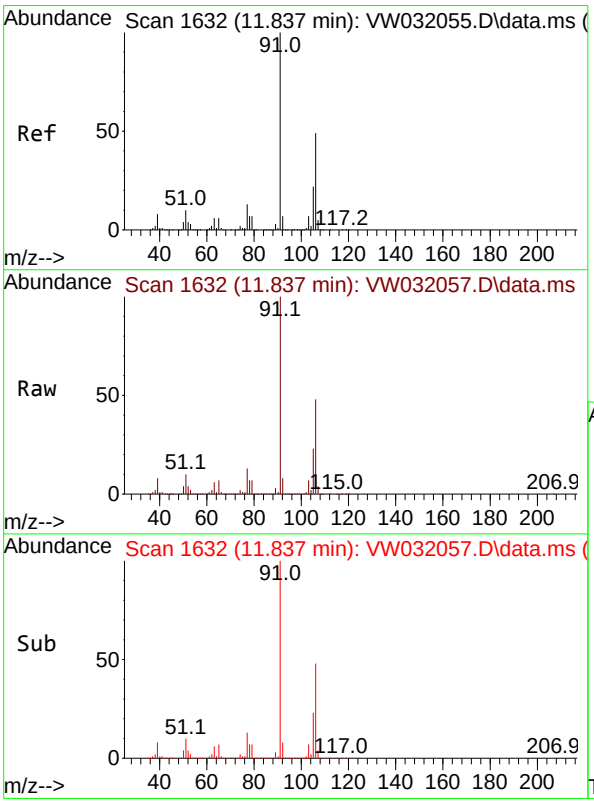

#67
Ethyl Benzene
Concen: 156.328 ug/l
RT: 11.733 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion: 91 Resp: 2162983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.1 | 25.4 | 38.0 |

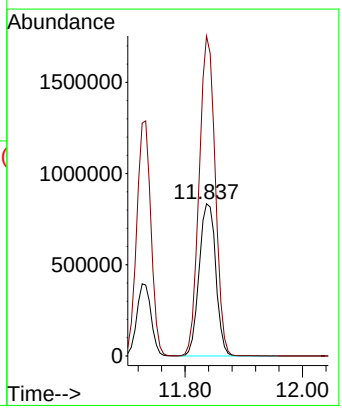


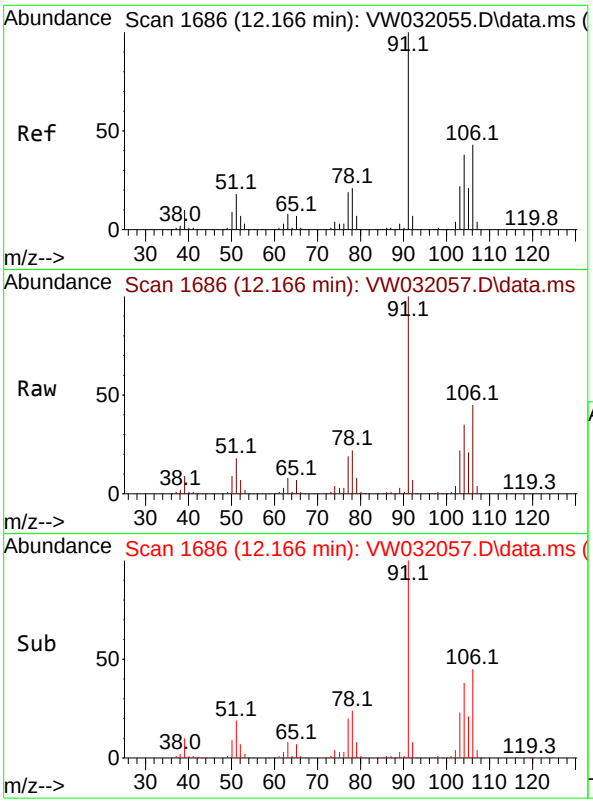




#68
m/p-Xylenes
Concen: 307.801 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:106 Resp: 1643338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 203.0 | 162.2 | 243.2 |



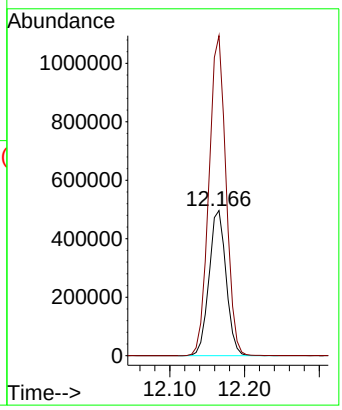


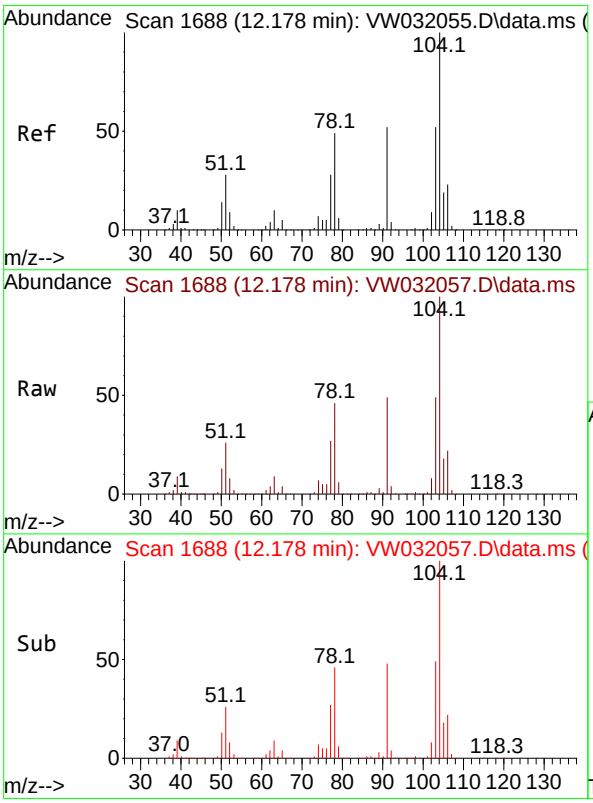

#69
o-Xylene
Concen: 159.450 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion:106 Resp: 786831

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 220.1 | 110.8 | 332.3 |

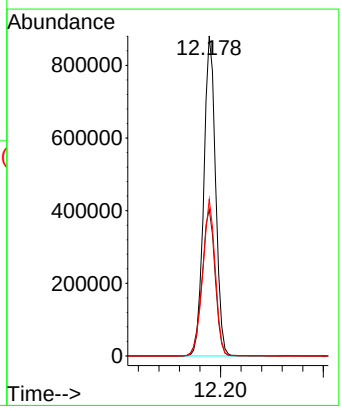


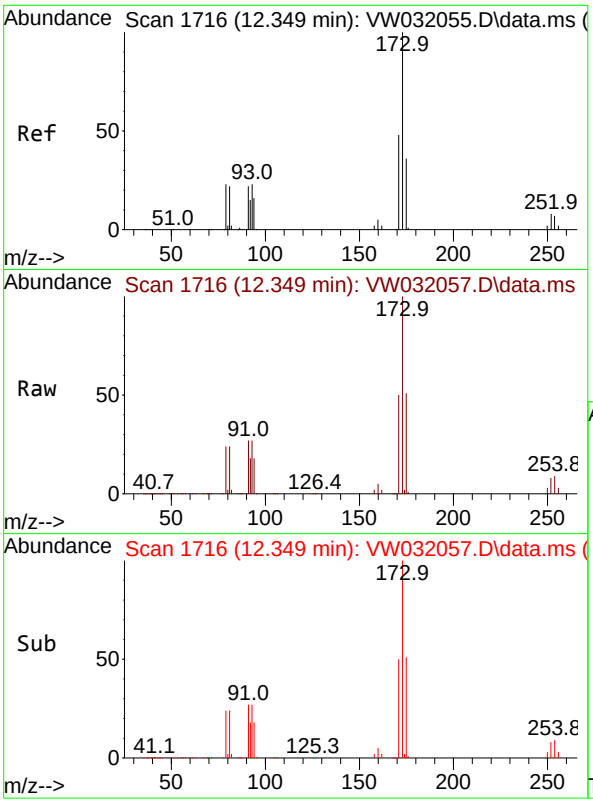




#70
Styrene
Concen: 160.482 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:104 Resp: 1406640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 50.4 | 41.2 | 61.8 |
| 103 | 51.7 | 43.8 | 65.8 |



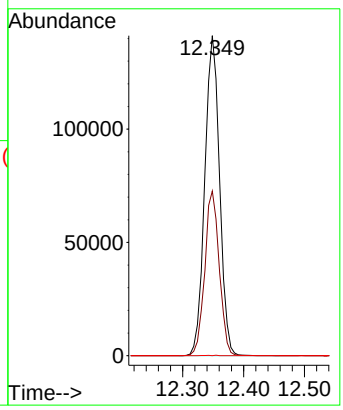


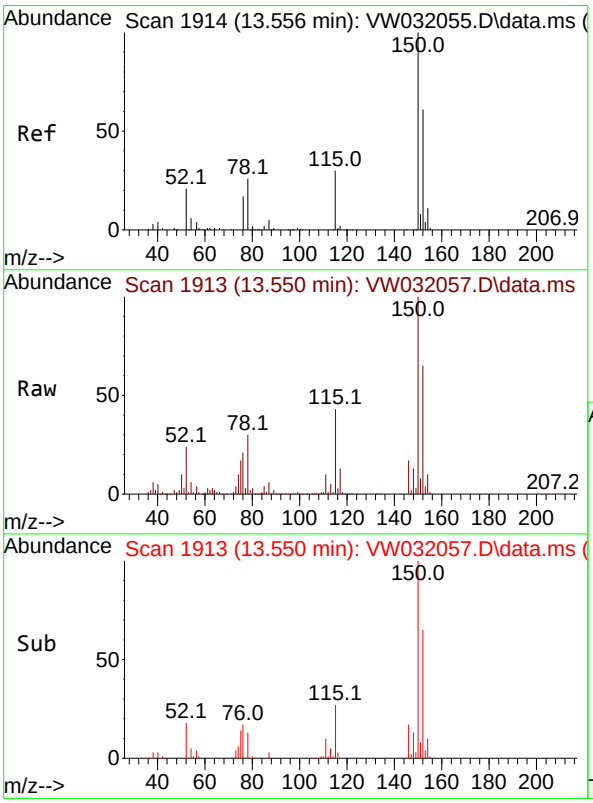

#71
Bromoform
Concen: 163.720 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion:173 Resp: 238675

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 50.4 | 22.9 | 68.7 |
| 254 | 0.1 | 0.0 | 0.0# |

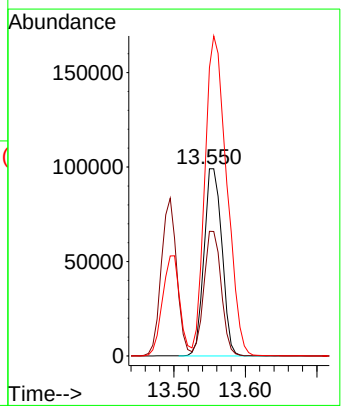


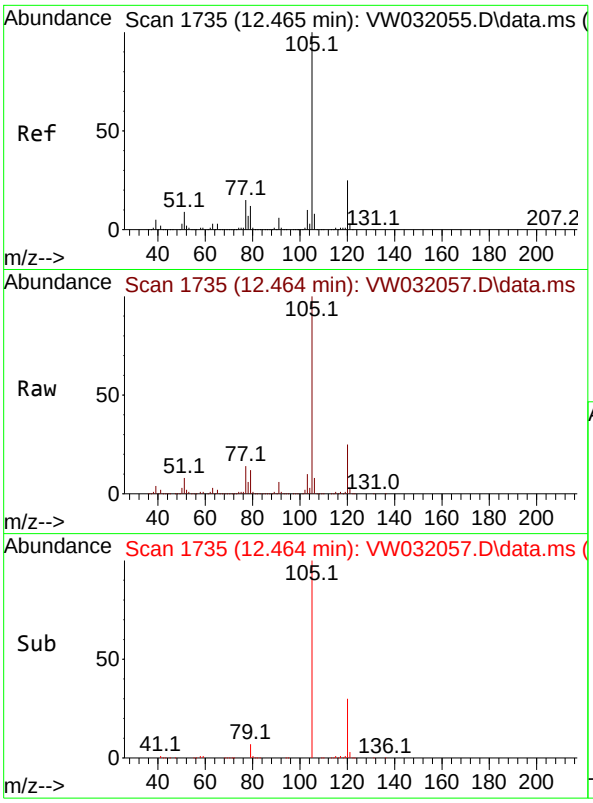




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.550 min Scan# 1913
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:152 Resp: 172321

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 64.2 | 32.6 | 97.8 |
| 150 | 208.3 | 0.0 | 359.4 |



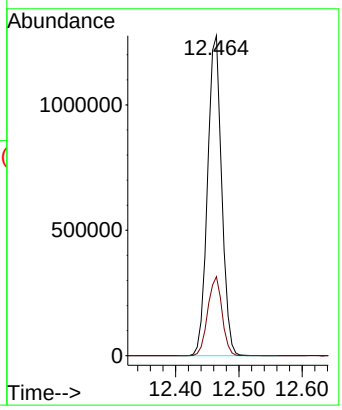


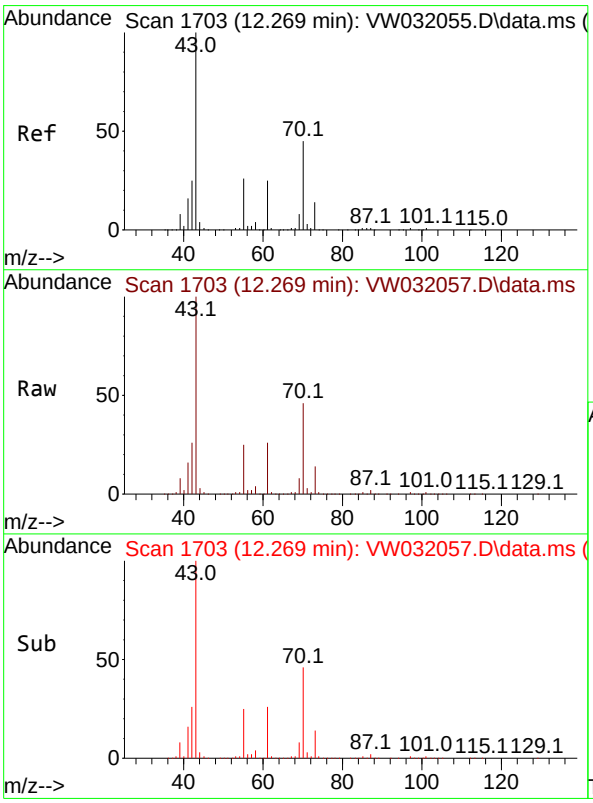

#73
Isopropylbenzene
Concen: 164.188 ug/l
RT: 12.464 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion:105 Resp: 1977280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.0 | 12.8 | 38.4 |

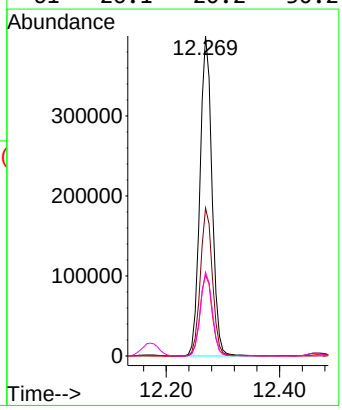


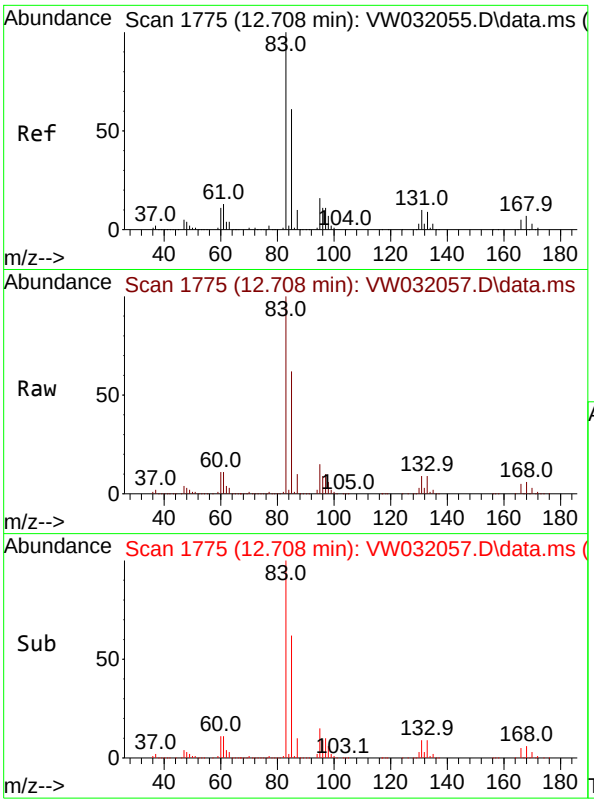




#74
N-amyl acetate
Concen: 170.556 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 43 Resp: 589285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 46.3 | 37.0 | 55.4 |
| 55 | 25.7 | 21.1 | 31.7 |
| 61 | 26.1 | 20.2 | 30.2 |



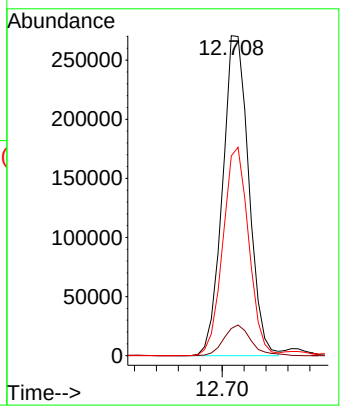


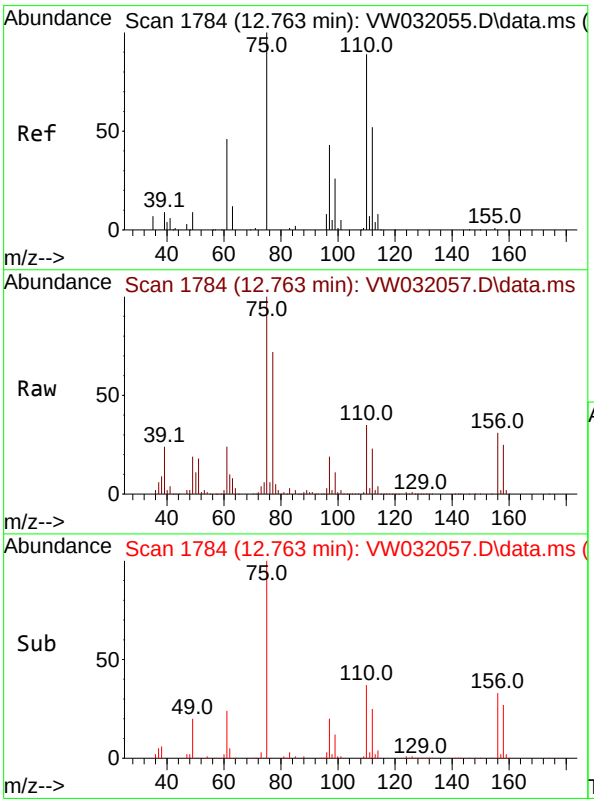

#75
1,1,2,2-Tetrachloroethane
Concen: 157.276 ug/l
RT: 12.708 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion: 83 Resp: 449708

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.9 | 5.1 | 15.4 |
| 85 | 64.1 | 32.2 | 96.6 |

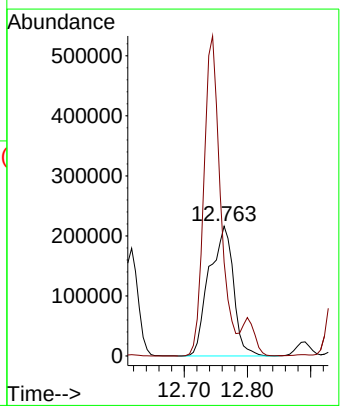


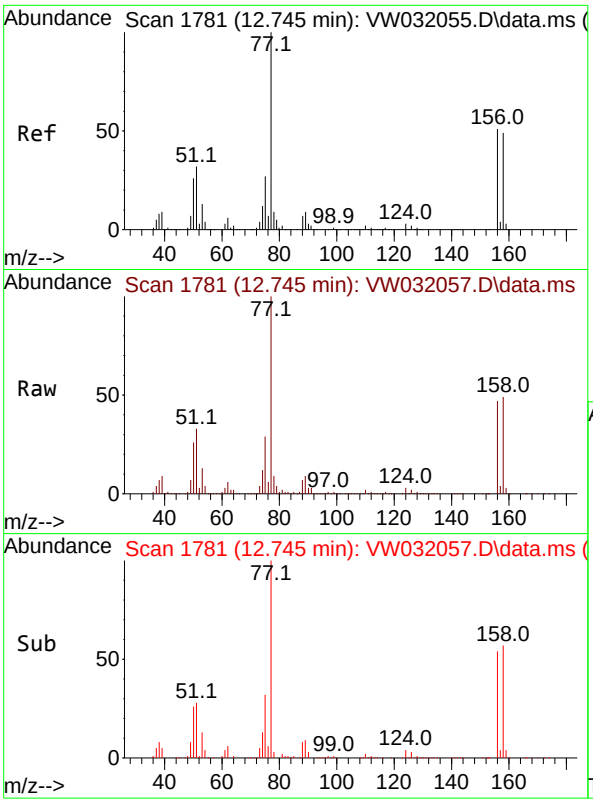




#76
1,2,3-Trichloropropane
Concen: 217.539 ug/l
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 75 Resp: 576261

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 168.6 | 123.5 | 370.5 |



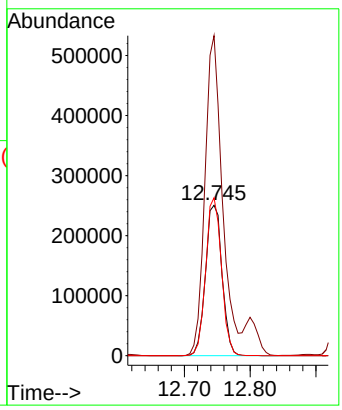


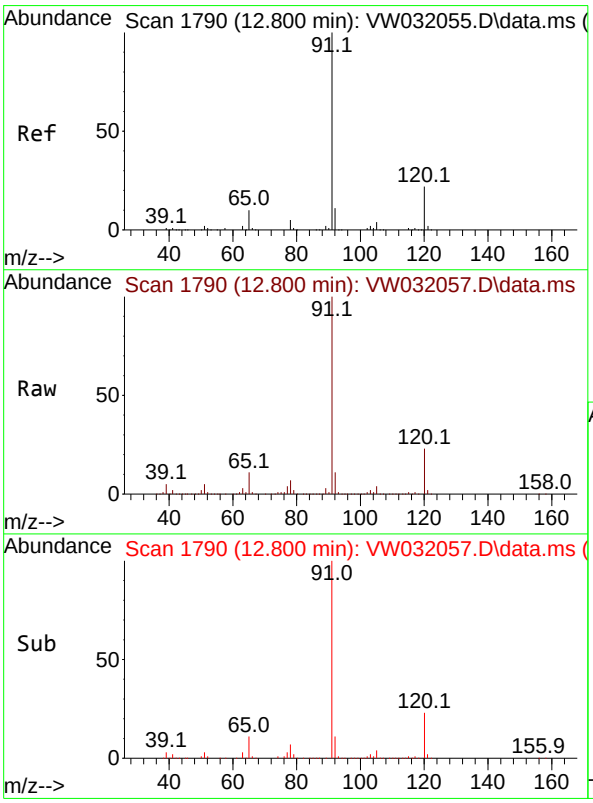

#77
Bromobenzene
Concen: 153.167 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion:156 Resp: 440559

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 220.6 | 108.7 | 326.3 |
| 158 | 99.9 | 48.3 | 144.9 |

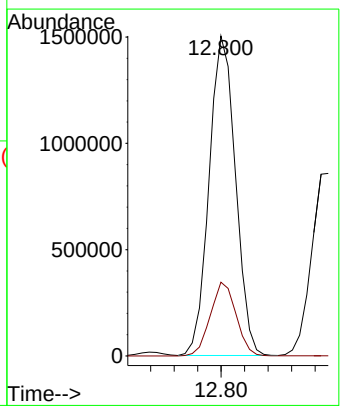


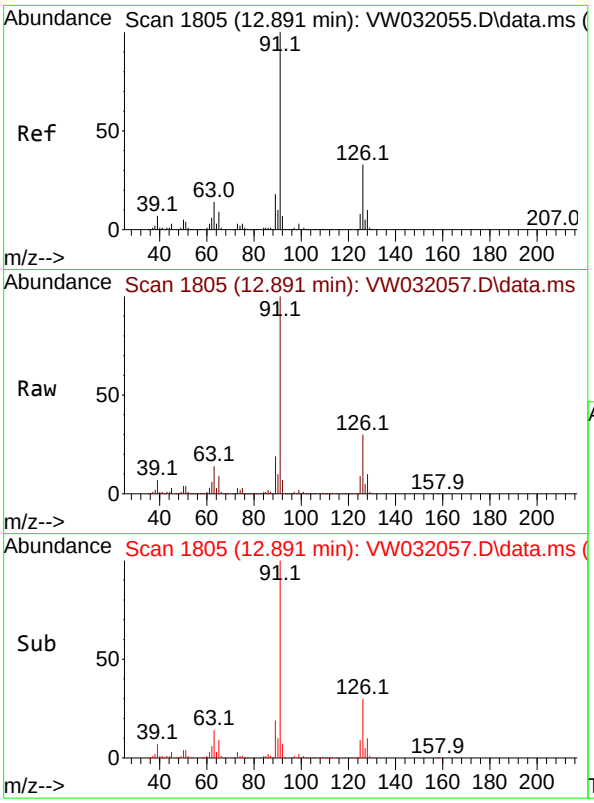




#78
n-propylbenzene
Concen: 158.253 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 91 Resp: 2346333

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.5 | 11.1 | 33.3 |



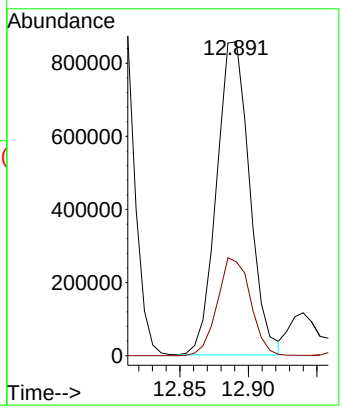


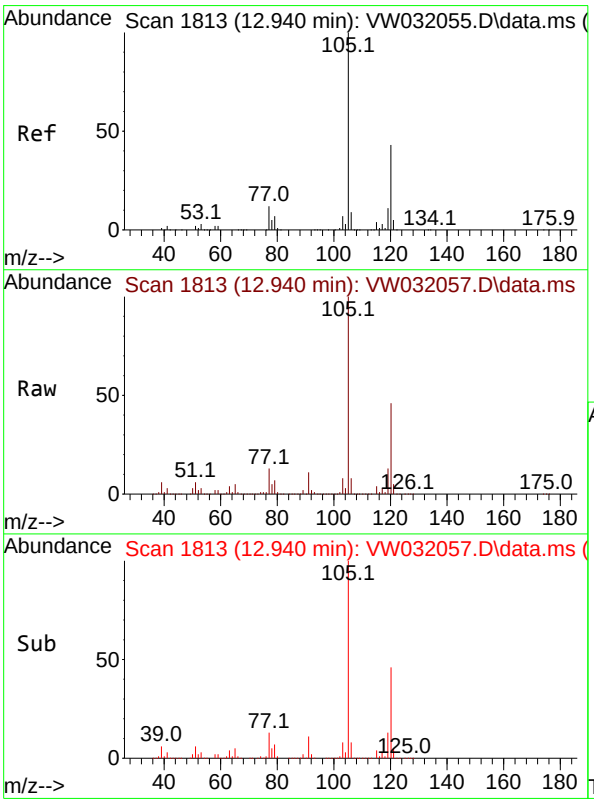

#79
2-Chlorotoluene
Concen: 156.820 ug/l
RT: 12.891 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion: 91 Resp: 1434986

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.4 | 15.9 | 47.7 |

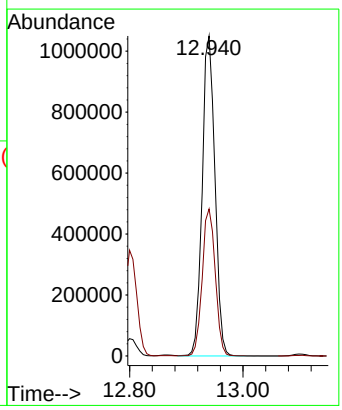


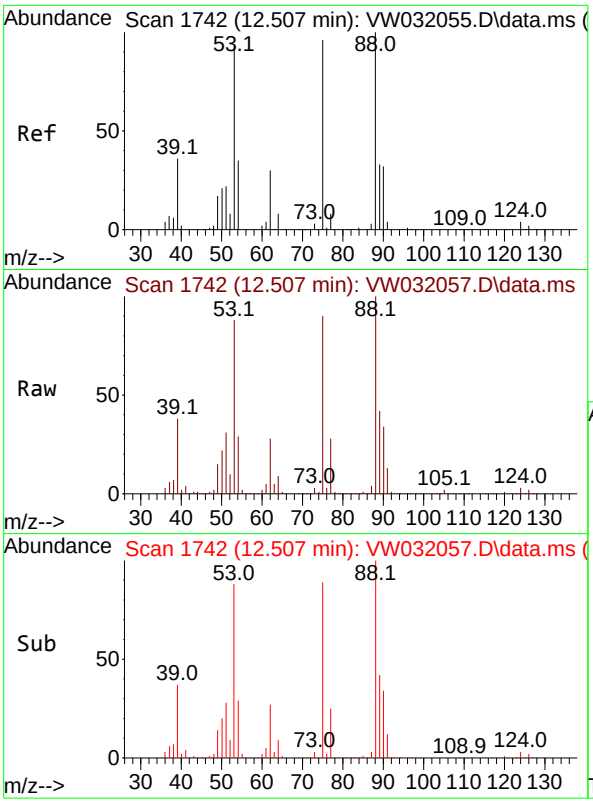




#80
1,3,5-Trimethylbenzene
Concen: 160.368 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:105 Resp: 1639597

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.1 | 23.4 | 70.0 |



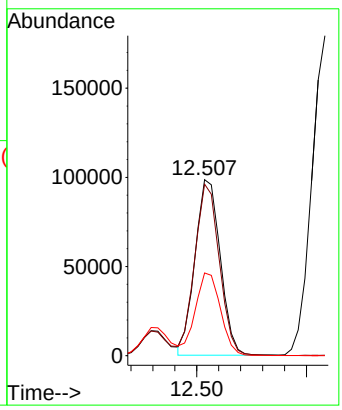


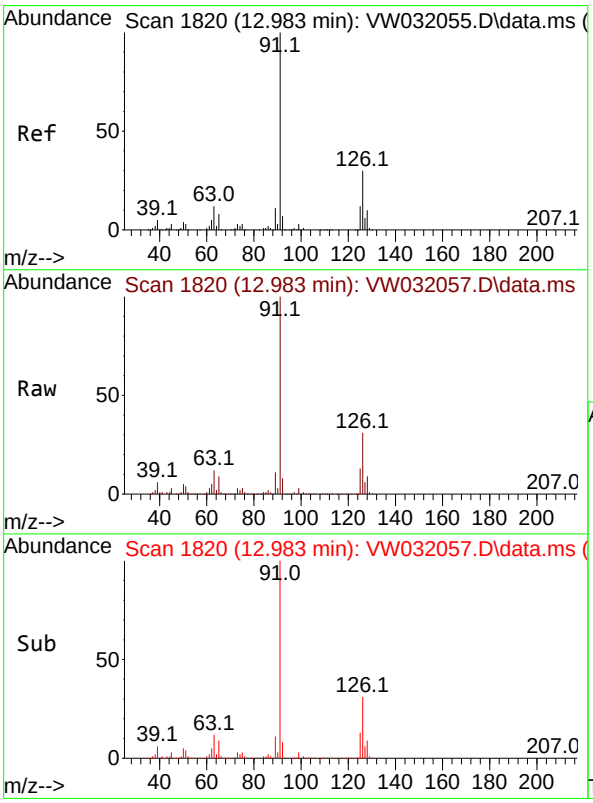

#81
trans-1,4-Dichloro-2-butene
Concen: 174.499 ug/l
RT: 12.507 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion: 75 Resp: 157641

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 95.9 | 81.0 | 121.6 |
| 89 | 47.5 | 37.3 | 55.9 |

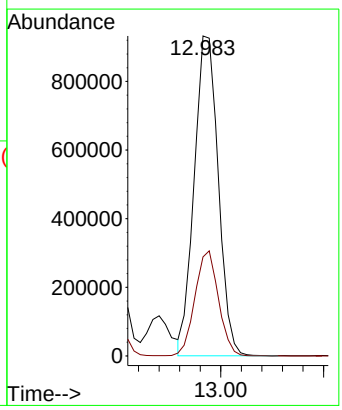


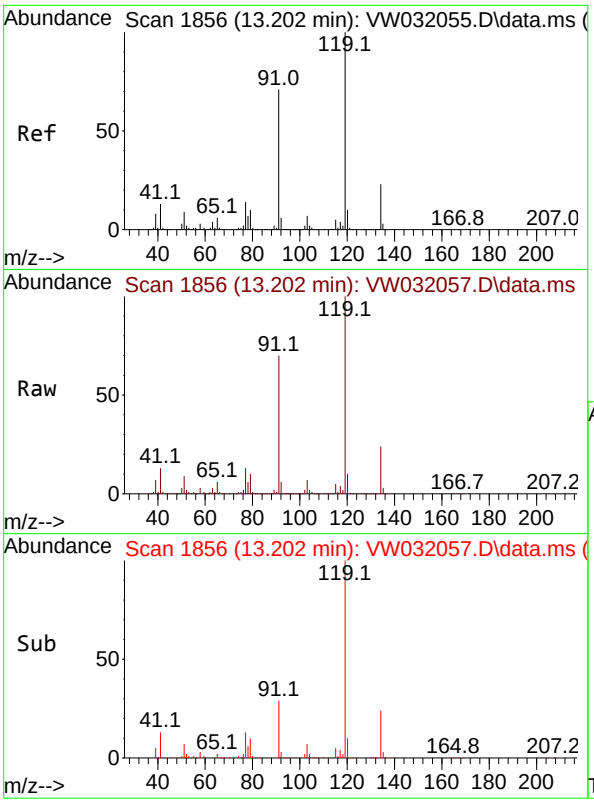




#82
4-Chlorotoluene
Concen: 155.863 ug/l
RT: 12.983 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 91 Resp: 1515300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.2 | 15.5 | 46.5 |



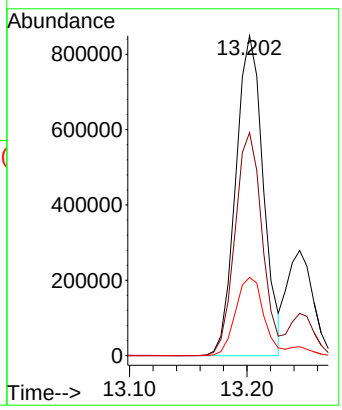


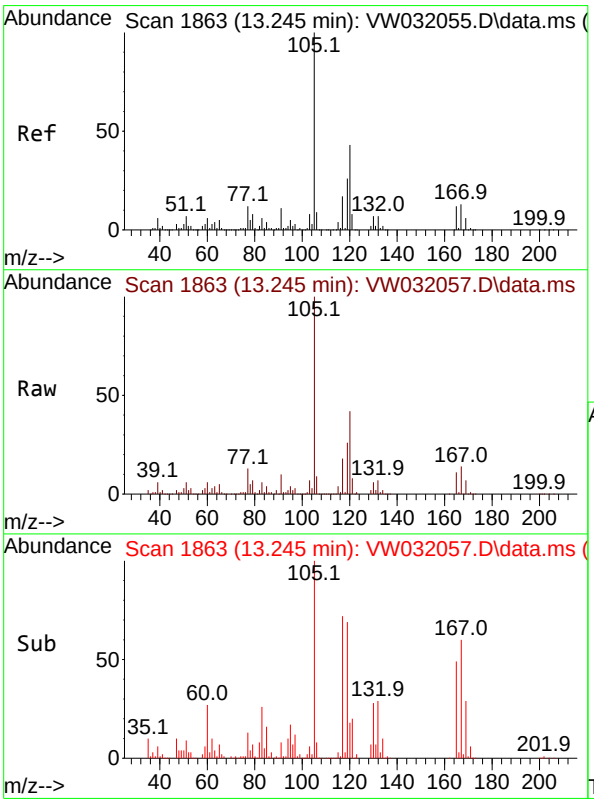

#83
tert-Butylbenzene
Concen: 163.006 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion:119 Resp: 1383127

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 68.5 | 35.3 | 105.9 |
| 134 | 25.2 | 12.1 | 36.3 |

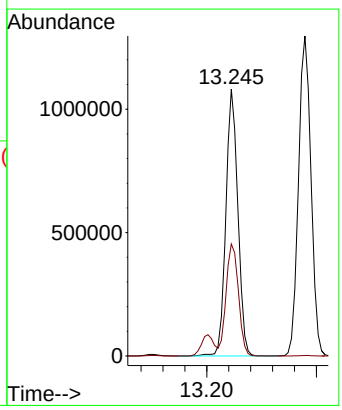


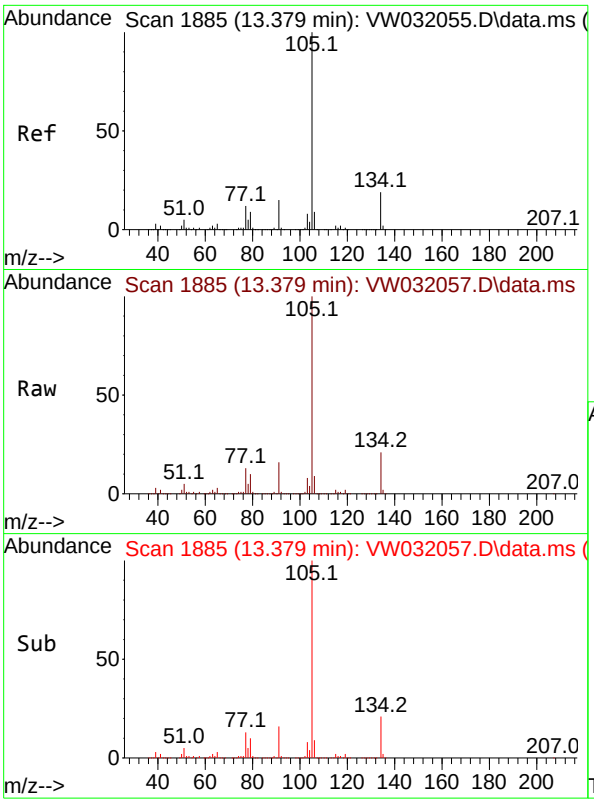




#84
1,2,4-Trimethylbenzene
Concen: 158.189 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:105 Resp: 1646381

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.2 | 21.6 | 64.8 |



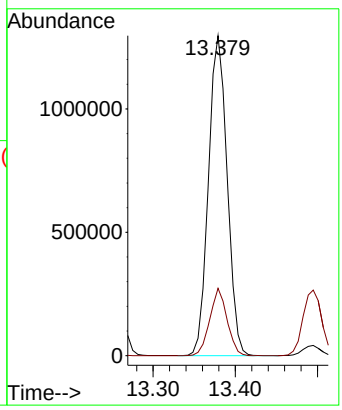


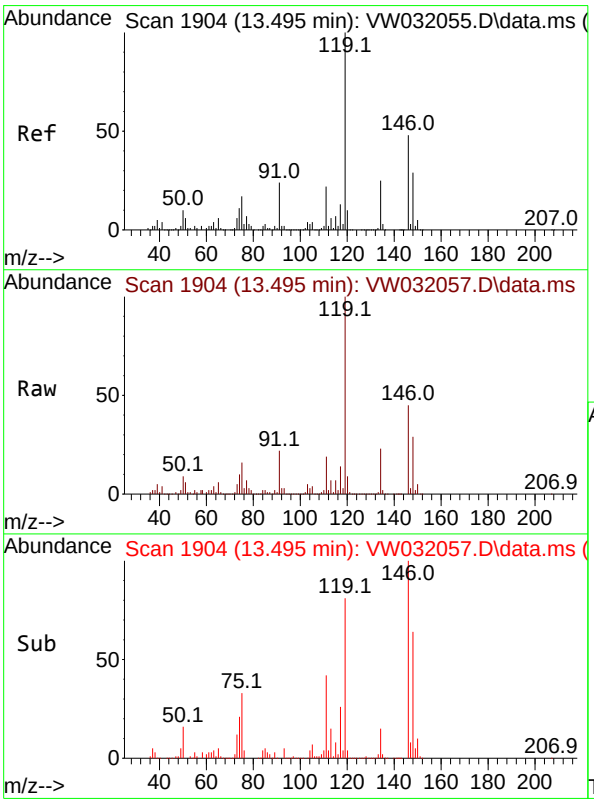

#85
sec-Butylbenzene
Concen: 159.625 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion:105 Resp: 2047763

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.5 | 9.9 | 29.7 |

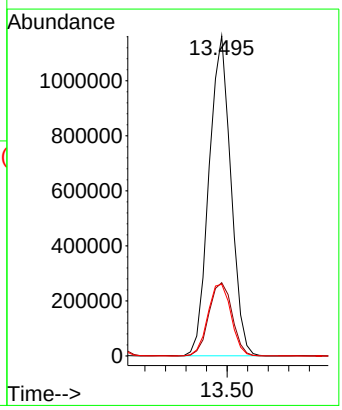


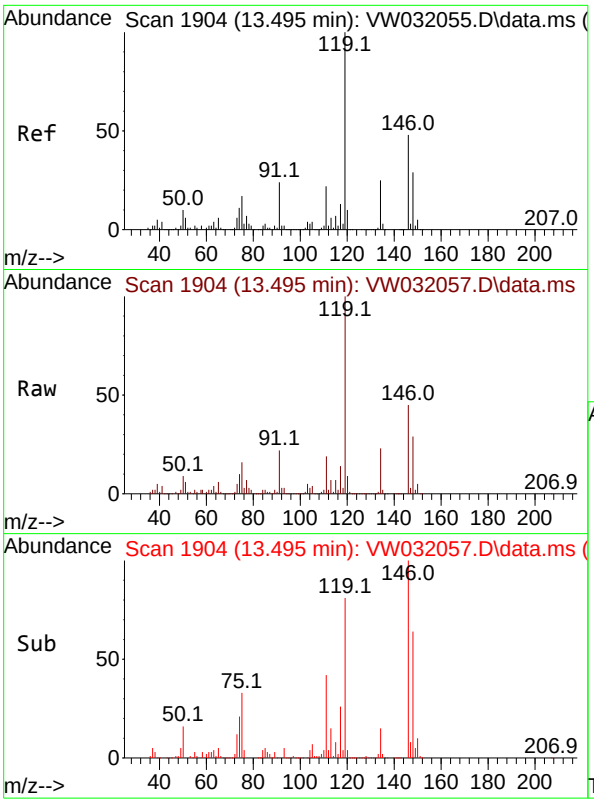




#86
p-Isopropyltoluene
Concen: 160.127 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:119 Resp: 1712519

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 24.5 | 12.4 | 37.0 |
| 91 | 24.0 | 12.1 | 36.3 |



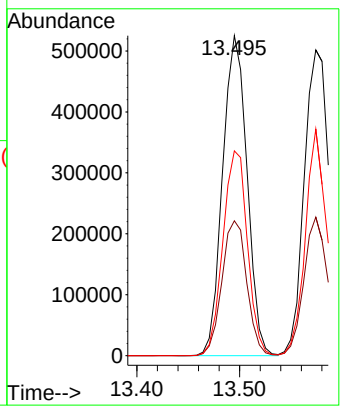


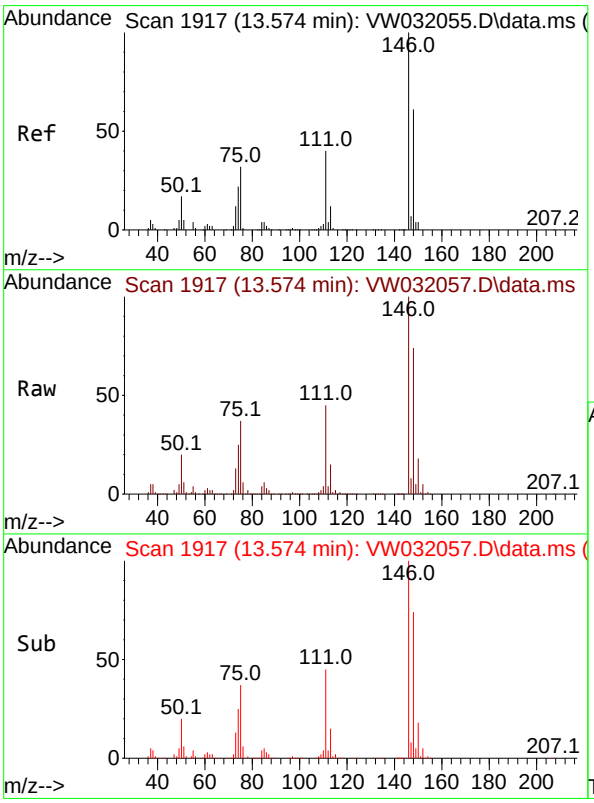

#87
1,3-Dichlorobenzene
Concen: 151.629 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion:146 Resp: 867827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.9 | 21.2 | 63.6 |
| 148 | 64.1 | 30.3 | 90.8 |

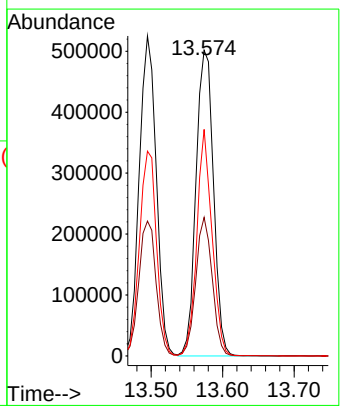


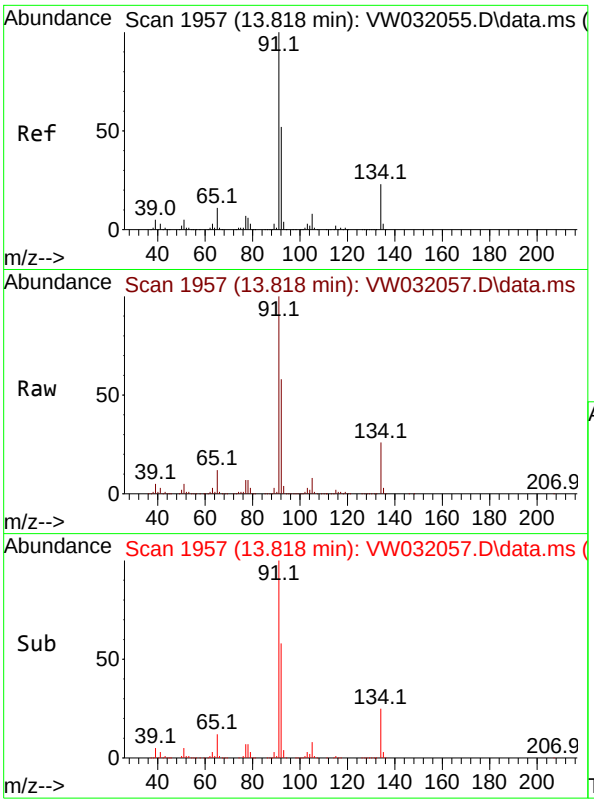




#88
1,4-Dichlorobenzene
Concen: 147.144 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:146 Resp: 851057

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.5 | 21.6 | 64.6 |
| 148 | 64.4 | 32.0 | 96.2 |



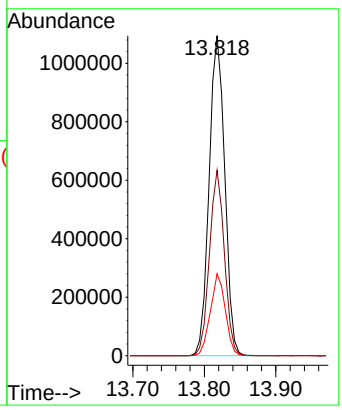


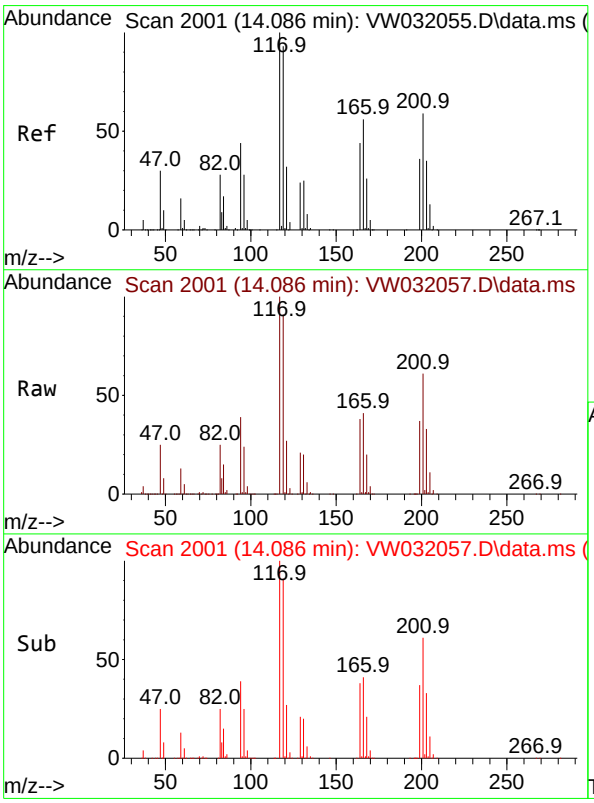

#89
n-Butylbenzene
Concen: 159.527 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion: 91 Resp: 1657492

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 55.4 | 26.7 | 80.1 |
| 134 | 24.5 | 12.0 | 36.1 |

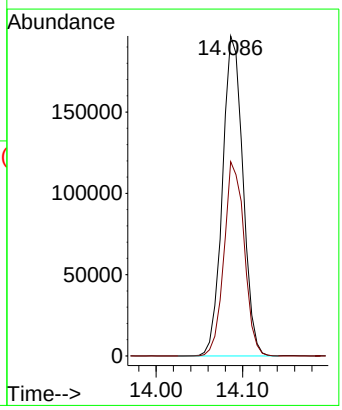


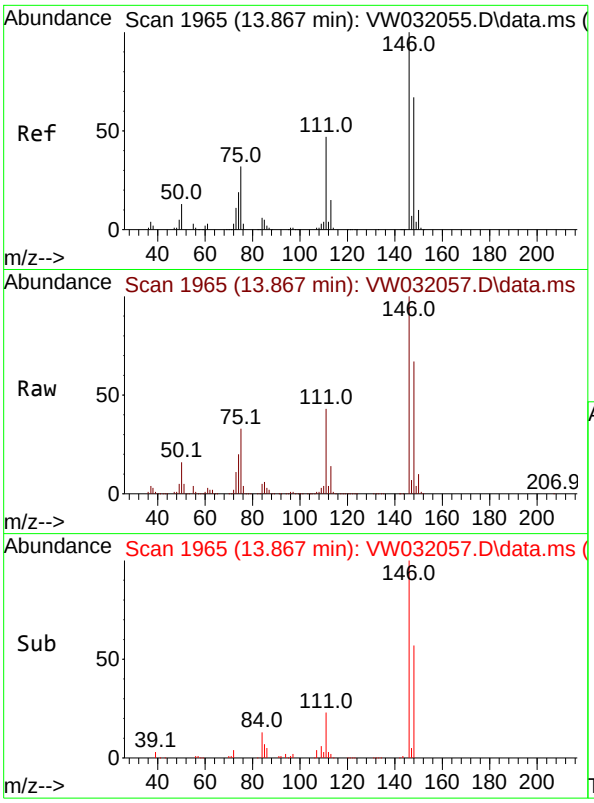




#90
Hexachloroethane
Concen: 164.868 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:117 Resp: 322461

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 60.0 | 30.9 | 92.5 |



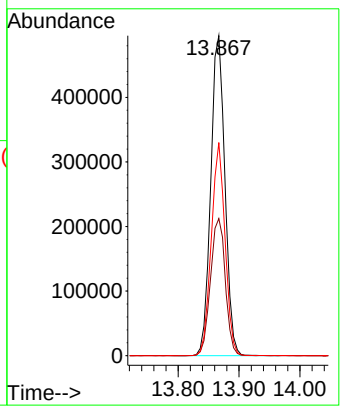


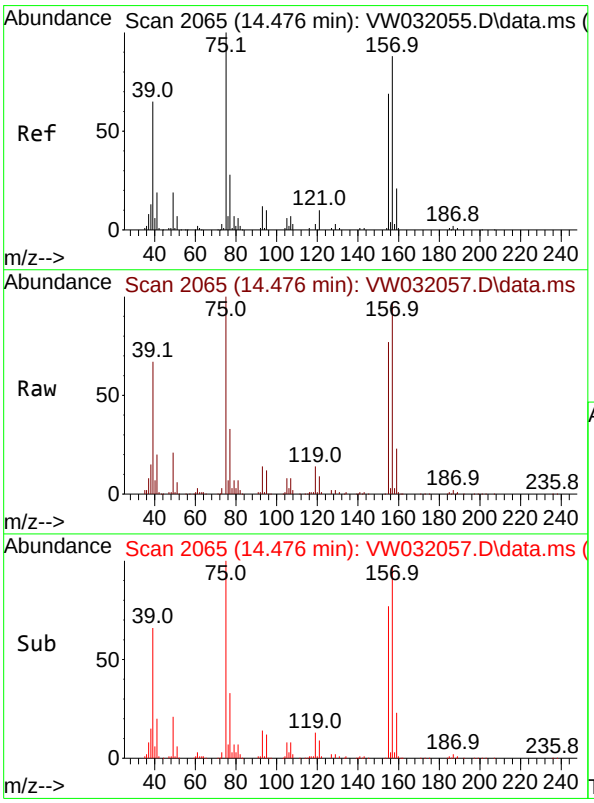

#91
1,2-Dichlorobenzene
Concen: 153.968 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion:146 Resp: 798257

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.9 | 23.1 | 69.3 |
| 148 | 64.7 | 32.9 | 98.6 |

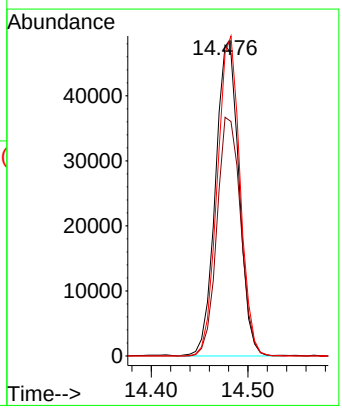


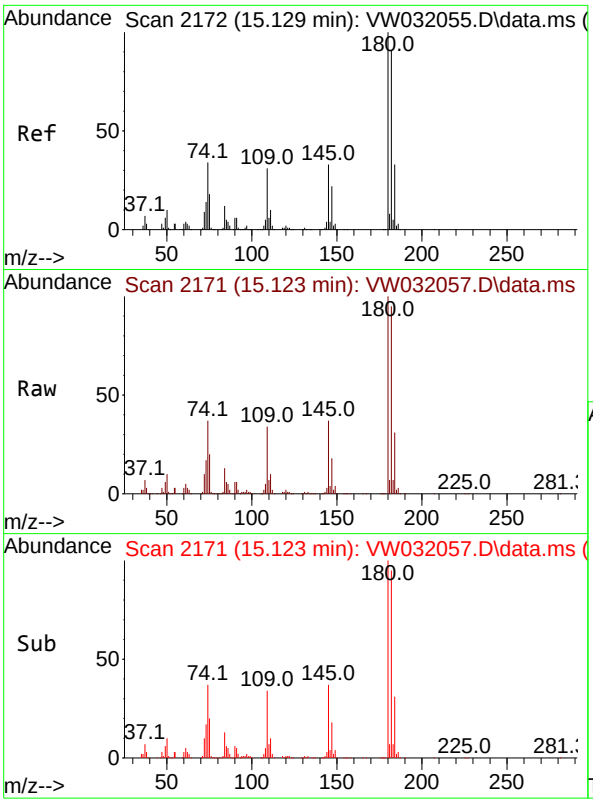




#92
1,2-Dibromo-3-Chloropropane
Concen: 159.472 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion: 75 Resp: 81063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 77.0 | 35.2 | 105.6 |
| 157 | 98.7 | 47.5 | 142.6 |



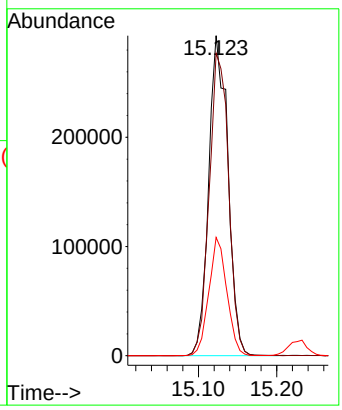


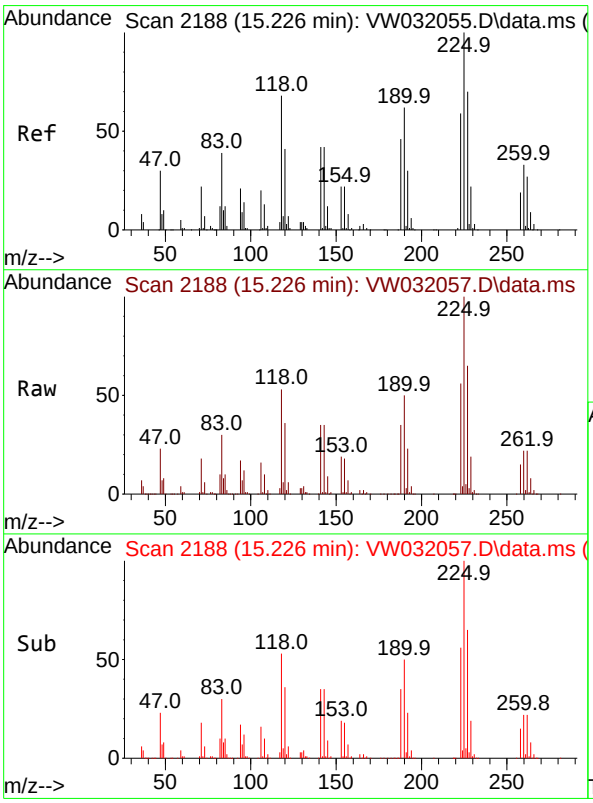

#93
1,2,4-Trichlorobenzene
Concen: 161.006 ug/l
RT: 15.123 min Scan# 21
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion:180 Resp: 499355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.3 | 49.0 | 147.0 |
| 145 | 34.7 | 17.3 | 51.9 |

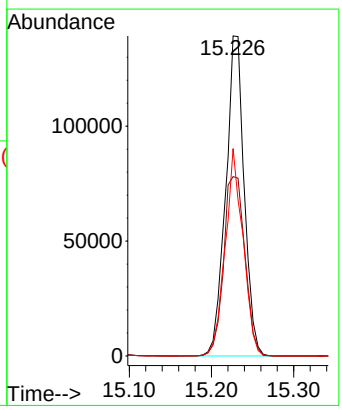


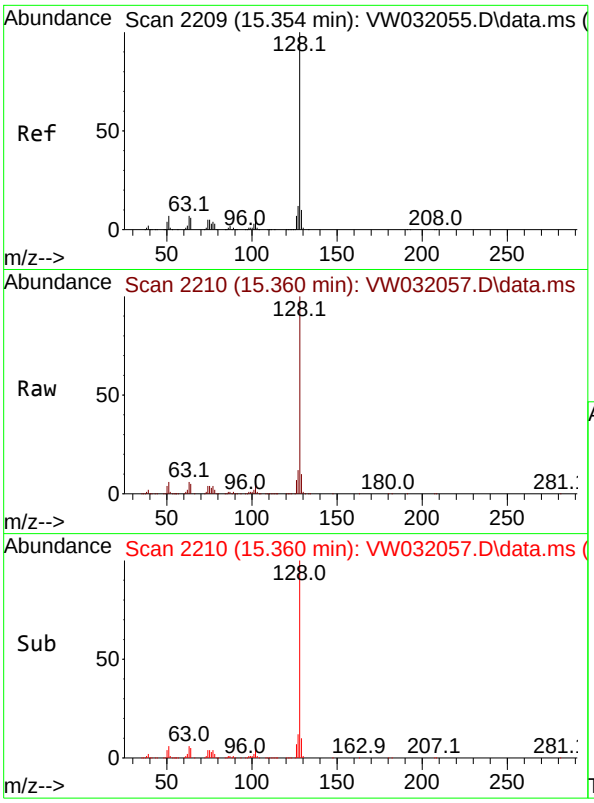




#94
Hexachlorobutadiene
Concen: 157.938 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. -0.000 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:225 Resp: 218963

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 64.2 | 31.8 | 95.3 |
| 227 | 62.4 | 33.5 | 100.5 |



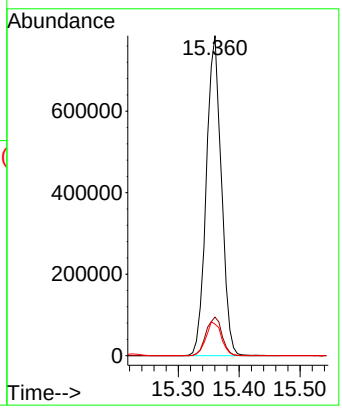


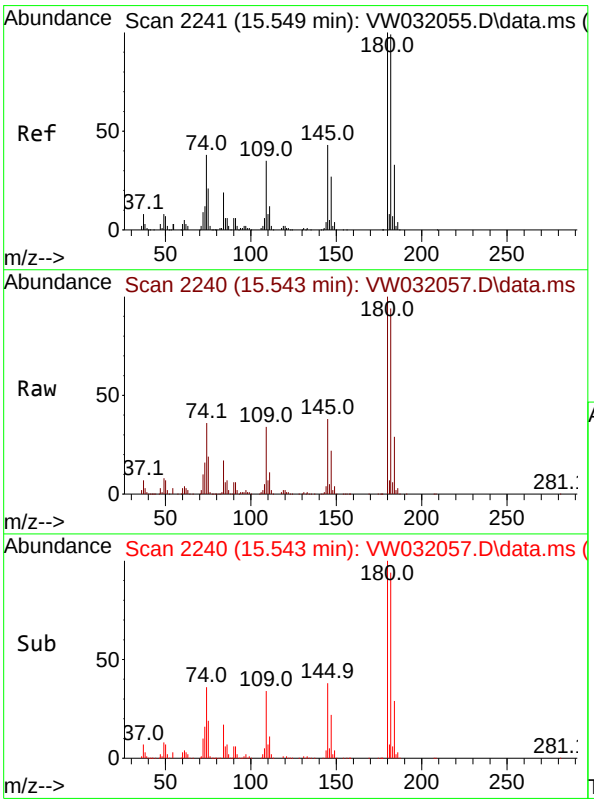

#95
Naphthalene
Concen: 177.424 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDICC150

Tgt Ion:128 Resp: 1348344

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.8 | 10.5 | 15.7 |
| 129 | 10.8 | 8.2 | 12.4 |

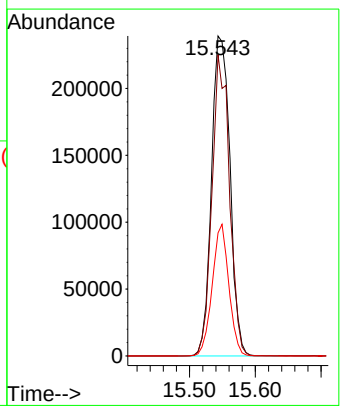



#96
1,2,3-Trichlorobenzene
Concen: 165.423 ug/l
RT: 15.543 min Scan# 2240
Delta R.T. -0.006 min
Lab File: VW032057.D
Acq: 11 Aug 2025 11:08

Tgt Ion:180 Resp: 466811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 89.3 | 46.0 | 138.0 |
| 145 | 37.2 | 19.2 | 57.6 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032059.D
Acq On : 11 Aug 2025 11:51
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Quant Time: Aug 12 04:12:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.959 | 168 | 226453 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.849 | 114 | 420434 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.629 | 117 | 386856 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.556 | 152 | 182577 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.319 | 65 | 161155 | 49.205 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 63 - 155 | | Recovery = 98.420% | | | |
| 35) Dibromofluoromethane | 7.898 | 113 | 135642 | 49.939 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 70 - 134 | | Recovery = 99.880% | | | |
| 50) Toluene-d8 | 10.325 | 98 | 499377 | 49.708 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 123 | | Recovery = 99.420% | | | |
| 62) 4-Bromofluorobenzene | 12.617 | 95 | 190514 | 51.460 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 17 - 146 | | Recovery = 102.920% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.040 | 85 | 69757 | 43.069 | ug/l | 98 |
| 3) Chloromethane | 2.253 | 50 | 103574 | 47.474 | ug/l | 100 |
| 4) Vinyl Chloride | 2.405 | 62 | 124287 | 47.096 | ug/l | 95 |
| 5) Bromomethane | 2.820 | 94 | 93451 | 47.201 | ug/l | 100 |
| 6) Chloroethane | 2.966 | 64 | 83573 | 47.858 | ug/l | 97 |
| 7) Trichlorofluoromethane | 3.308 | 101 | 108634 | 51.386 | ug/l | 91 |
| 8) Diethyl Ether | 3.722 | 74 | 87261 | 50.380 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 4.100 | 101 | 118012 | 47.316 | ug/l | 99 |
| 10) Methyl Iodide | 4.307 | 142 | 175903 | 49.742 | ug/l | 97 |
| 11) Tert butyl alcohol | 5.210 | 59 | 57666 | 271.910 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 4.076 | 96 | 131802 | 47.992 | ug/l | 97 |
| 13) Acrolein | 3.929 | 56 | 80072 | 236.960 | ug/l | 98 |
| 14) Allyl chloride | 4.710 | 41 | 204222 | 51.094 | ug/l | 99 |
| 15) Acrylonitrile | 5.405 | 53 | 219409 | 265.958 | ug/l | 99 |
| 16) Acetone | 4.161 | 43 | 192802 | 254.262 | ug/l | 97 |
| 17) Carbon Disulfide | 4.423 | 76 | 360982 | 48.970 | ug/l | 96 |
| 18) Methyl Acetate | 4.716 | 43 | 126246 | 52.614 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.466 | 73 | 263546 | 54.465 | ug/l | 100 |
| 20) Methylene Chloride | 4.954 | 84 | 162865 | 46.453 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 5.466 | 96 | 145825 | 50.035 | ug/l | 98 |
| 22) Diisopropyl ether | 6.338 | 45 | 438483 | 52.038 | ug/l | 97 |
| 23) Vinyl Acetate | 6.283 | 43 | 1494873 | 270.210 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 6.246 | 63 | 265060 | 49.234 | ug/l | 98 |
| 25) 2-Butanone | 7.191 | 43 | 293227 | 272.083 | ug/l | 96 |
| 26) 2,2-Dichloropropane | 7.185 | 77 | 134123 | 49.659 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 7.185 | 96 | 175120 | 51.404 | ug/l | 98 |
| 28) Bromochloromethane | 7.532 | 49 | 123268 | 50.315 | ug/l | 98 |
| 29) Tetrahydrofuran | 7.551 | 42 | 194909 | 274.235 | ug/l | 100 |
| 30) Chloroform | 7.691 | 83 | 284250 | 49.803 | ug/l | 98 |
| 31) Cyclohexane | 7.971 | 56 | 217714 | 46.646 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.886 | 97 | 207733 | 50.108 | ug/l | 97 |
| 36) 1,1-Dichloropropene | 8.093 | 75 | 189820 | 49.574 | ug/l | 100 |
| 37) Ethyl Acetate | 7.270 | 43 | 124516 | 55.214 | ug/l | 99 |
| 38) Carbon Tetrachloride | 8.081 | 117 | 184816 | 50.015 | ug/l | 98 |
| 39) Methylcyclohexane | 9.343 | 83 | 243533 | 52.181 | ug/l | 98 |
| 40) Benzene | 8.337 | 78 | 598350 | 50.272 | ug/l | 98 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032059.D
Acq On : 11 Aug 2025 11:51
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Quant Time: Aug 12 04:12:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.502 | 41 | 70600 | 55.204 | ug/l | | 97 |
| 42) 1,2-Dichloroethane | 8.410 | 62 | 194825 | 51.154 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.435 | 43 | 227561 | 54.846 | ug/l | | 99 |
| 44) Trichloroethene | 9.099 | 130 | 139383 | 49.175 | ug/l | | 99 |
| 45) 1,2-Dichloropropane | 9.374 | 63 | 147807 | 51.403 | ug/l | | 99 |
| 46) Dibromomethane | 9.465 | 93 | 93713 | 50.497 | ug/l | | 98 |
| 47) Bromodichloromethane | 9.648 | 83 | 221409 | 51.775 | ug/l | | 100 |
| 48) Methyl methacrylate | 9.441 | 41 | 110265 | 55.048 | ug/l | | 98 |
| 49) 1,4-Dioxane | 9.459 | 88 | 27718 | 1155.151 | ug/l | # | 83 |
| 51) 4-Methyl-2-Pentanone | 10.215 | 43 | 645391 | 275.585 | ug/l | | 100 |
| 52) Toluene | 10.392 | 92 | 377919 | 50.410 | ug/l | | 96 |
| 53) t-1,3-Dichloropropene | 10.611 | 75 | 212772 | 53.108 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 10.075 | 75 | 238970 | 52.577 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 10.788 | 97 | 127536 | 51.716 | ug/l | | 97 |
| 56) Ethyl methacrylate | 10.648 | 69 | 186039 | 56.374 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.934 | 76 | 220027 | 51.186 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.928 | 63 | 498131 | 272.893 | ug/l | | 99 |
| 59) 2-Hexanone | 10.971 | 43 | 457083 | 281.817 | ug/l | | 100 |
| 60) Dibromochloromethane | 11.129 | 129 | 147264 | 52.276 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 11.239 | 107 | 126064 | 52.603 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.861 | 164 | 114507 | 51.245 | ug/l | | 95 |
| 65) Chlorobenzene | 11.660 | 112 | 416485 | 49.461 | ug/l | | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 11.733 | 131 | 132212 | 50.324 | ug/l | | 98 |
| 67) Ethyl Benzene | 11.727 | 91 | 716757 | 50.253 | ug/l | | 100 |
| 68) m/p-Xylenes | 11.837 | 106 | 559216 | 101.607 | ug/l | | 99 |
| 69) o-Xylene | 12.160 | 106 | 261548 | 51.416 | ug/l | | 98 |
| 70) Styrene | 12.178 | 104 | 468335 | 51.833 | ug/l | | 99 |
| 71) Bromoform | 12.349 | 173 | 82571 | 54.945 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.458 | 105 | 670779 | 52.571 | ug/l | | 99 |
| 74) N-amyl acetate | 12.269 | 43 | 203837 | 55.682 | ug/l | | 100 |
| 75) 1,1,2,2-Tetrachloroethane | 12.714 | 83 | 159092 | 52.514 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.763 | 75 | 201159 | 81.178 | ug/l | | 58 |
| 77) Bromobenzene | 12.745 | 156 | 152028 | 49.886 | ug/l | | 94 |
| 78) n-propylbenzene | 12.800 | 91 | 803474 | 51.148 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.885 | 91 | 495562 | 51.114 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.940 | 105 | 566437 | 52.291 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.507 | 75 | 51275 | 53.570 | ug/l | | 97 |
| 82) 4-Chlorotoluene | 12.989 | 91 | 518248 | 50.312 | ug/l | | 99 |
| 83) tert-Butylbenzene | 13.202 | 119 | 483459 | 53.777 | ug/l | | 97 |
| 84) 1,2,4-Trimethylbenzene | 13.245 | 105 | 587831 | 53.308 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.379 | 105 | 687367 | 50.571 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.495 | 119 | 584473 | 51.580 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.495 | 146 | 305044 | 50.304 | ug/l | | 95 |
| 88) 1,4-Dichlorobenzene | 13.574 | 146 | 306047 | 49.942 | ug/l | | 97 |
| 89) n-Butylbenzene | 13.818 | 91 | 571978 | 51.958 | ug/l | | 98 |
| 90) Hexachloroethane | 14.092 | 117 | 104295 | 50.329 | ug/l | | 95 |
| 91) 1,2-Dichlorobenzene | 13.867 | 146 | 279745 | 50.926 | ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.482 | 75 | 29014 | 53.872 | ug/l | | 98 |
| 93) 1,2,4-Trichlorobenzene | 15.123 | 180 | 173386 | 52.764 | ug/l | | 90 |
| 94) Hexachlorobutadiene | 15.226 | 225 | 75299 | 51.262 | ug/l | | 92 |
| 95) Naphthalene | 15.360 | 128 | 438139 | 54.415 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.549 | 180 | 162431 | 54.327 | ug/l | | 98 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032059.D
Acq On : 11 Aug 2025 11:51
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Quant Time: Aug 12 04:12:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

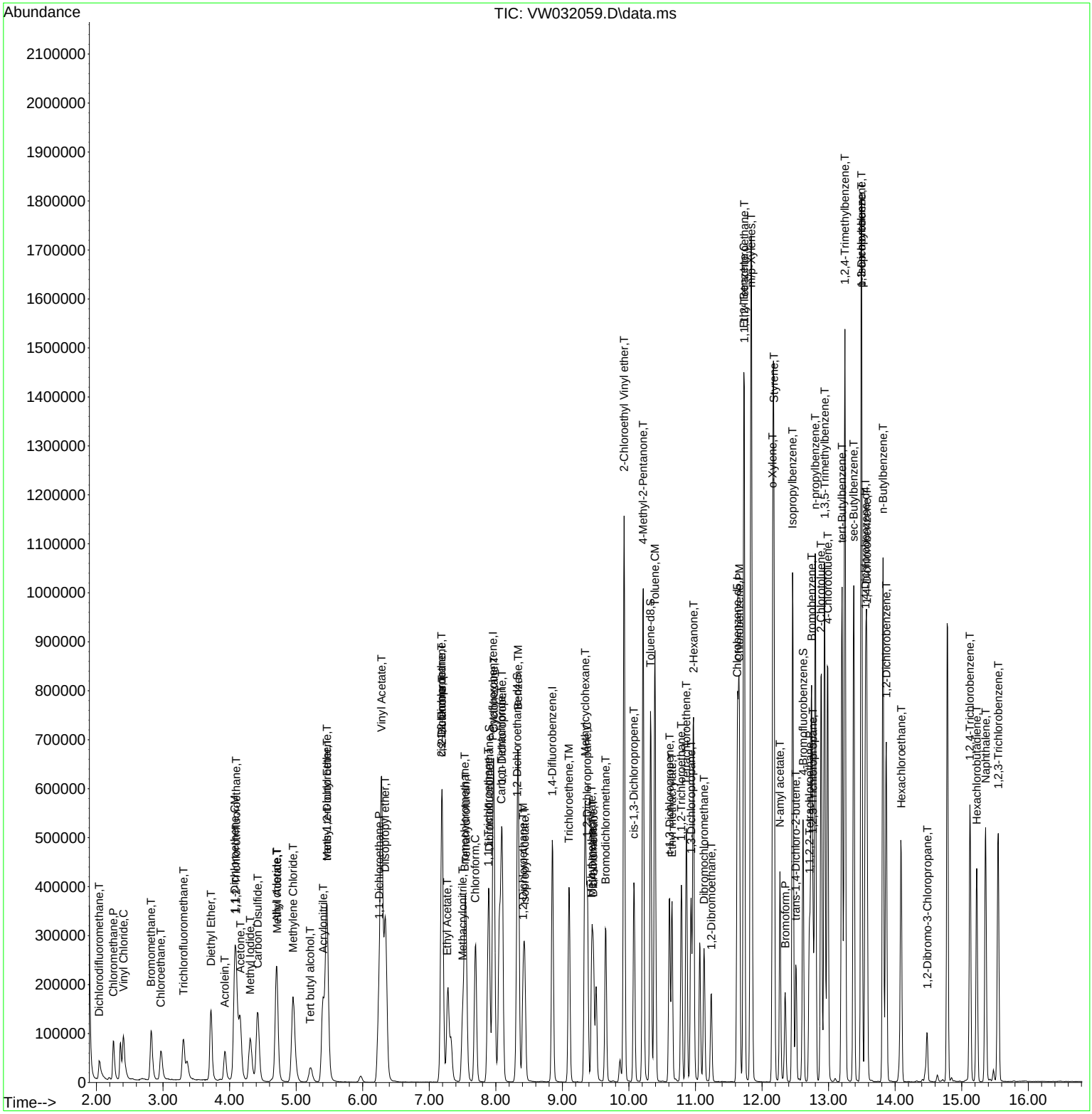
(#) = qualifier out of range (m) = manual integration (+) = signals summed

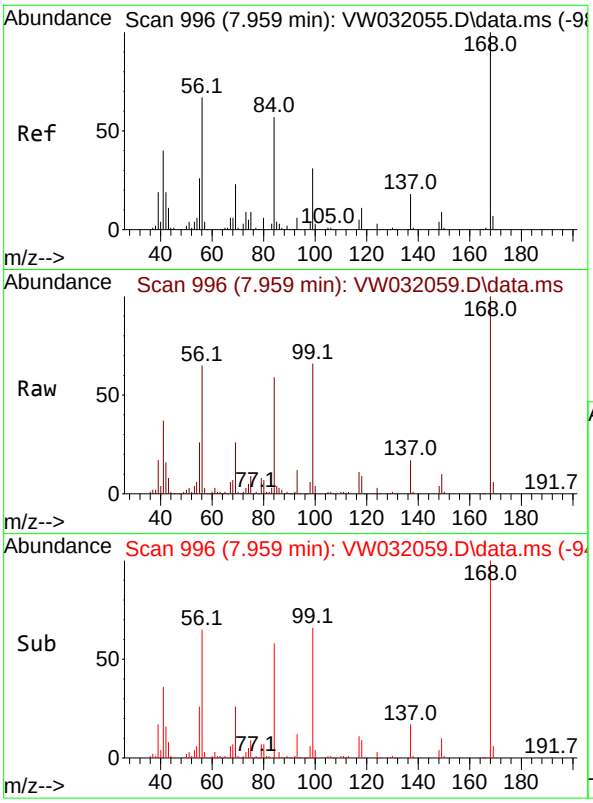
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032059.D
Acq On : 11 Aug 2025 11:51
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Quant Time: Aug 12 04:12:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration



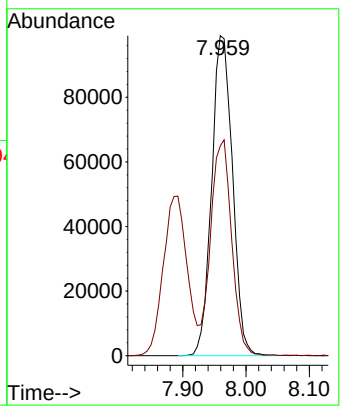


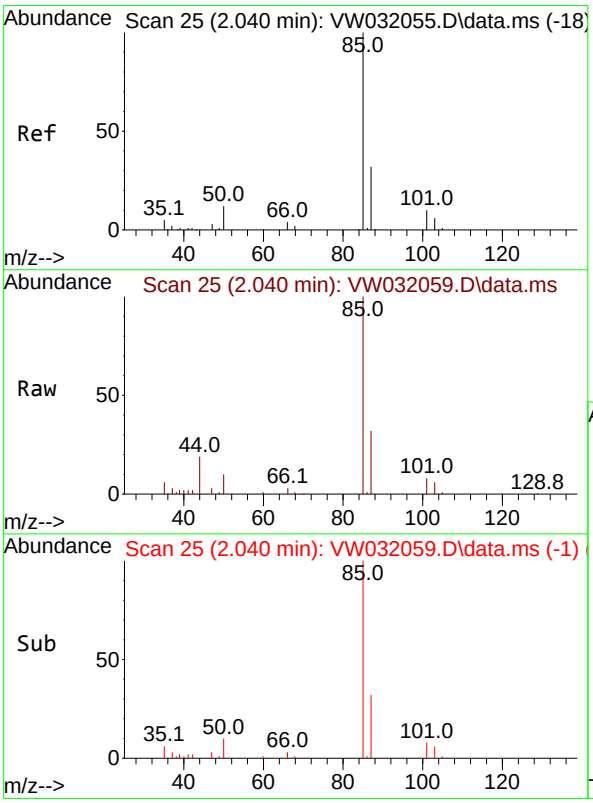

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion:168 Resp: 226453

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 65.5 | 56.0 | 84.0 |

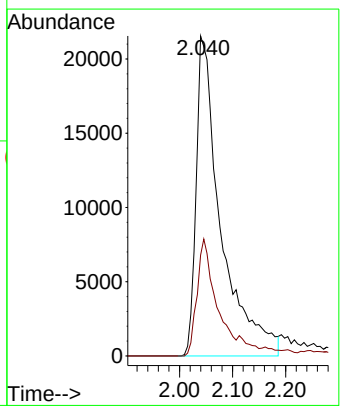


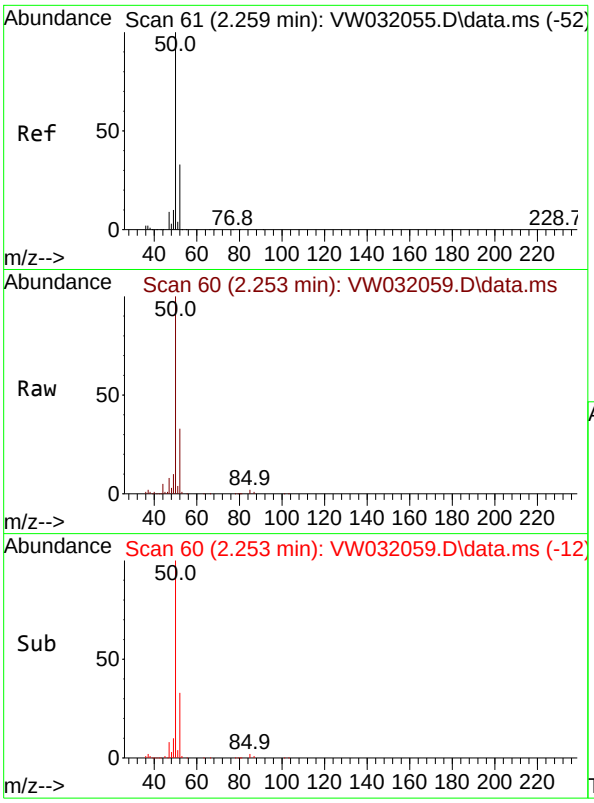




#2
Dichlorodifluoromethane
Concen: 43.069 ug/l
RT: 2.040 min Scan# 25
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 85 Resp: 69757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.5 | 16.2 | 48.6 |



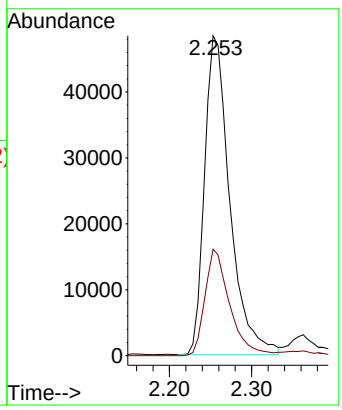


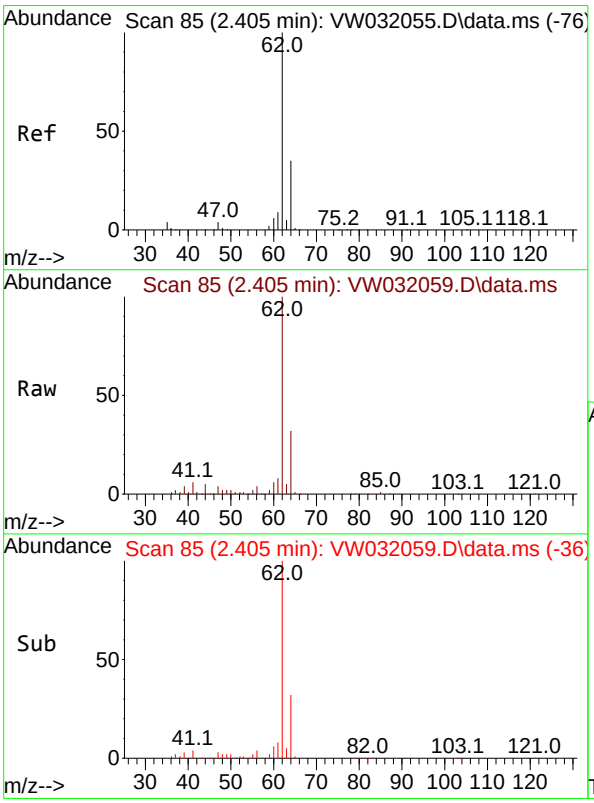

#3
Chloromethane
Concen: 47.474 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion: 50 Resp: 103574

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.3 | 26.6 | 39.8 |

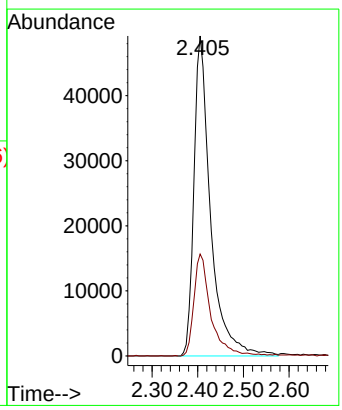


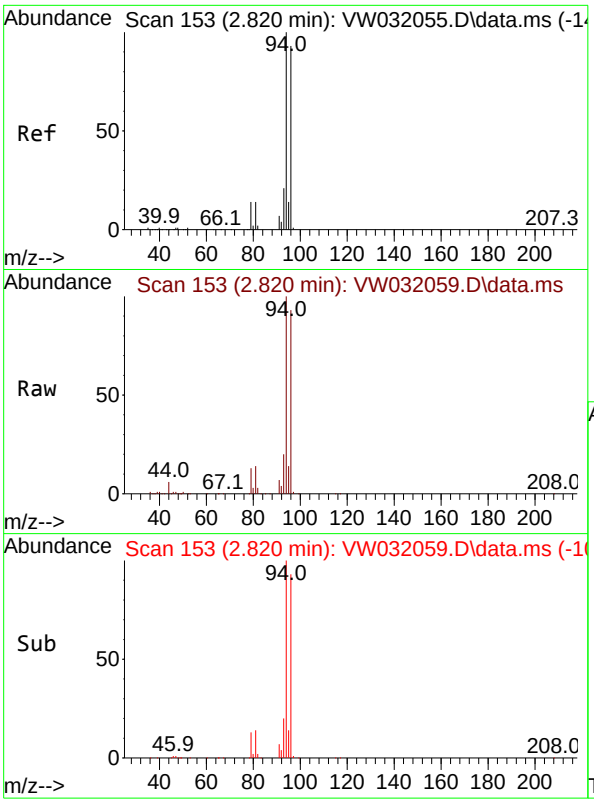




#4
Vinyl Chloride
Concen: 47.096 ug/l
RT: 2.405 min Scan# 85
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 62 Resp: 124287

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.9 | 27.8 | 41.6 |



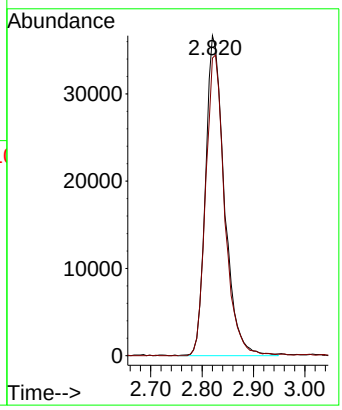


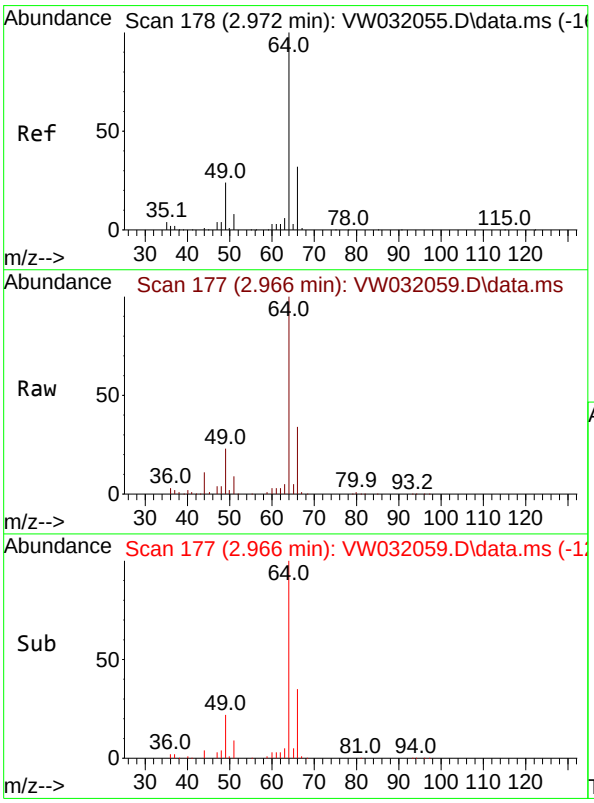

#5
Bromomethane
Concen: 47.201 ug/l
RT: 2.820 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion: 94 Resp: 93451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 93.0 | 74.7 | 112.1 |

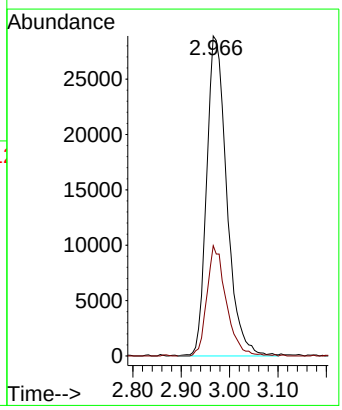


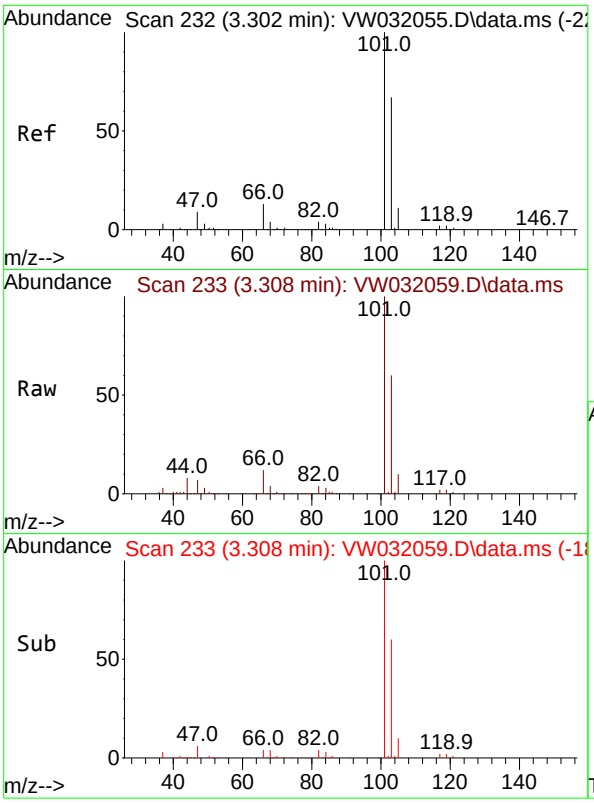




#6
Chloroethane
Concen: 47.858 ug/l
RT: 2.966 min Scan# 177
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 64 Resp: 83573

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 34.4 | 26.0 | 39.0 |



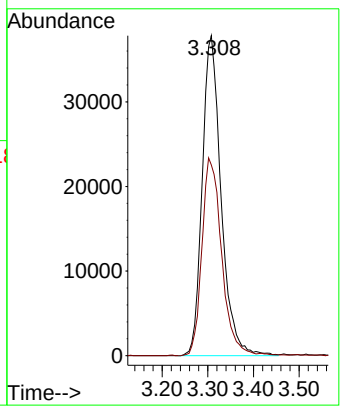


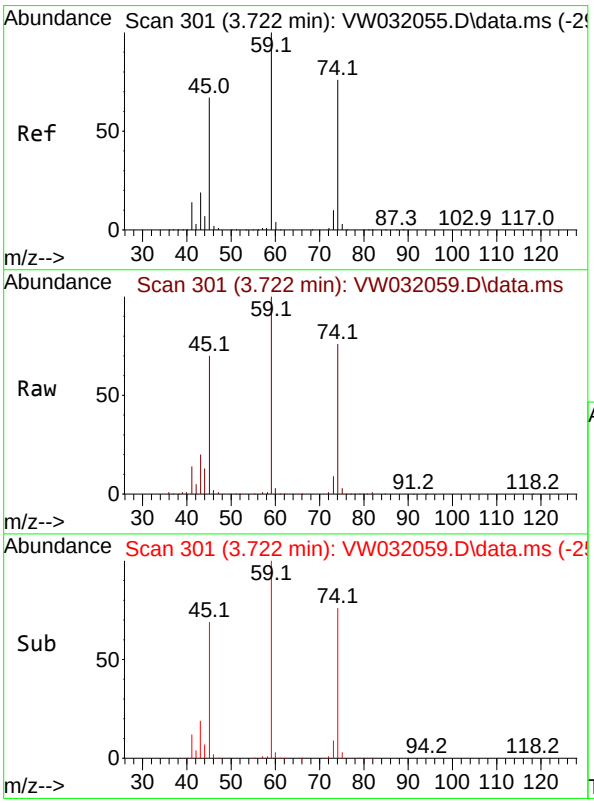

#7
Trichlorofluoromethane
Concen: 51.386 ug/l
RT: 3.308 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion:101 Resp: 108634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 59.6 | 53.4 | 80.0 |

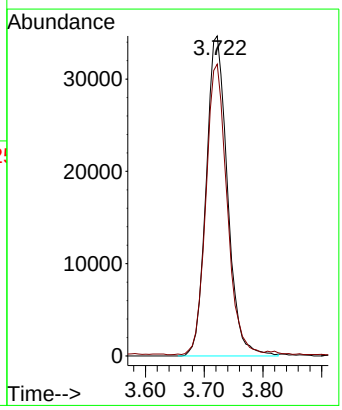


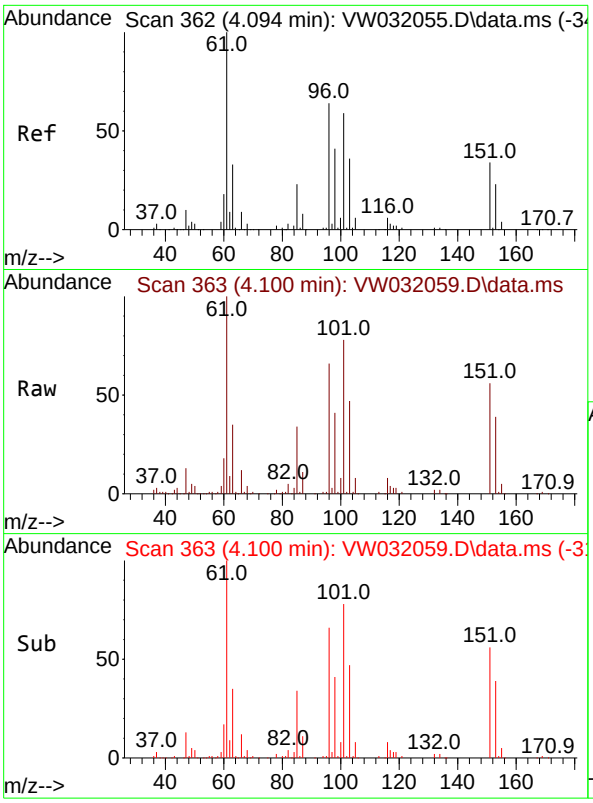




#8
Diethyl Ether
Concen: 50.380 ug/l
RT: 3.722 min Scan# 301
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 74 Resp: 87261

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 90.2 | 45.4 | 136.2 |



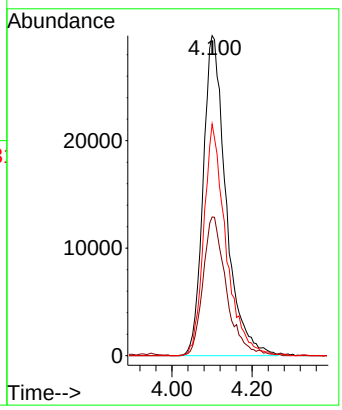


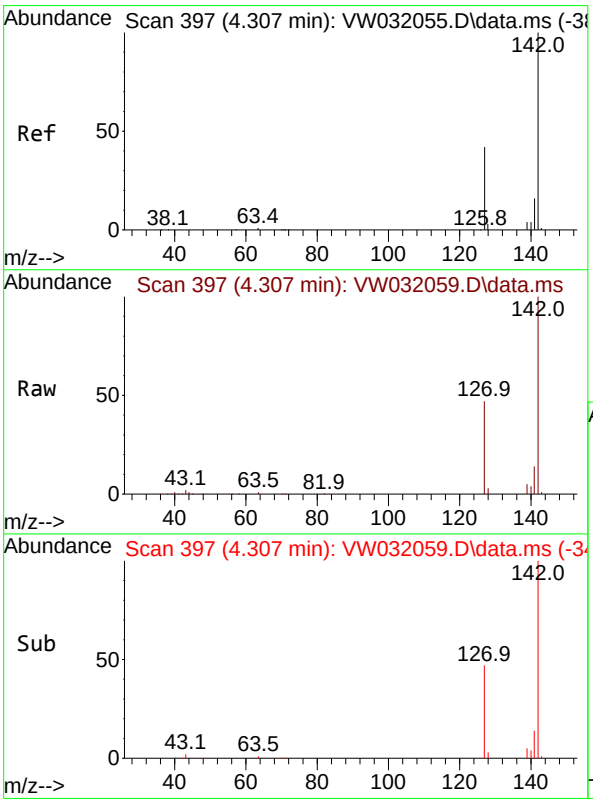

#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.316 ug/l
RT: 4.100 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion:101 Resp: 118012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 44.3 | 34.9 | 52.3 |
| 151 | 69.9 | 56.2 | 84.4 |

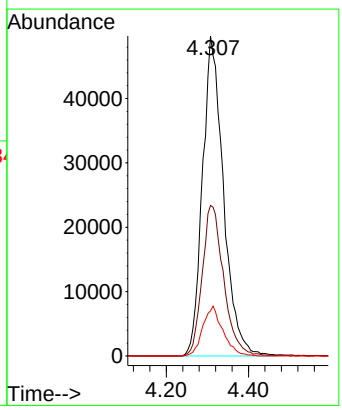


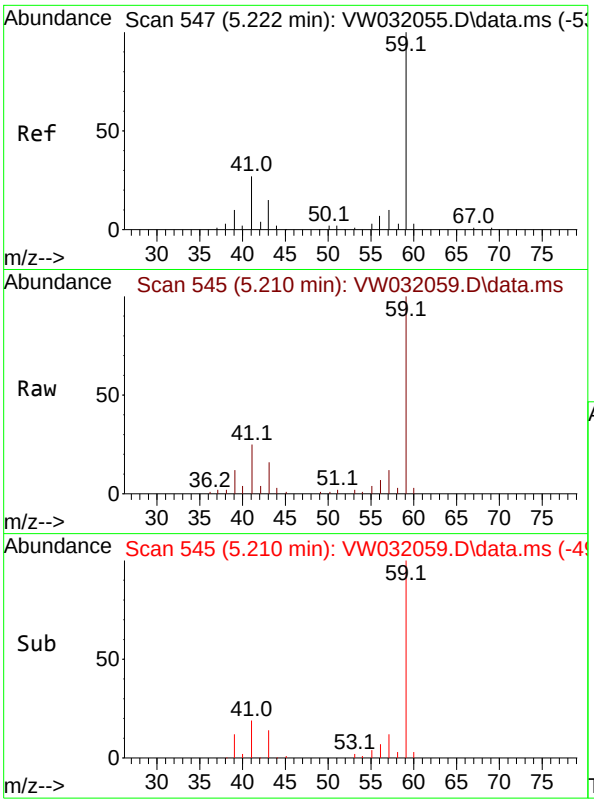




#10
Methyl Iodide
Concen: 49.742 ug/l
RT: 4.307 min Scan# 397
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:142 Resp: 175903

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 48.1 | 36.6 | 55.0 |
| 141 | 14.9 | 12.1 | 18.1 |



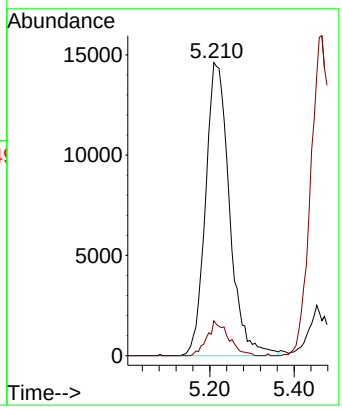


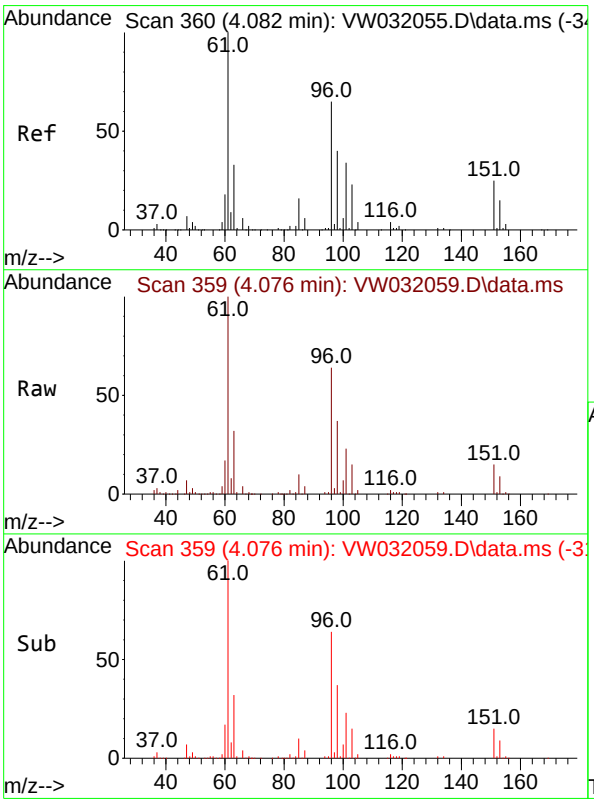

#11
Tert butyl alcohol
Concen: 271.910 ug/l
RT: 5.210 min Scan# 5
Delta R.T. -0.012 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion: 59 Resp: 57666

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.6 | 8.7 | 13.1 |

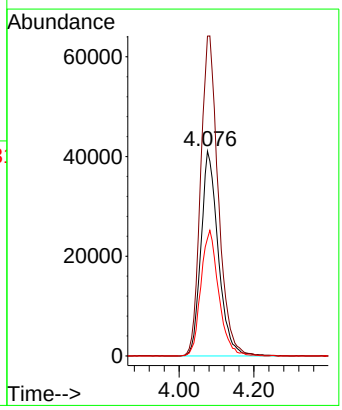


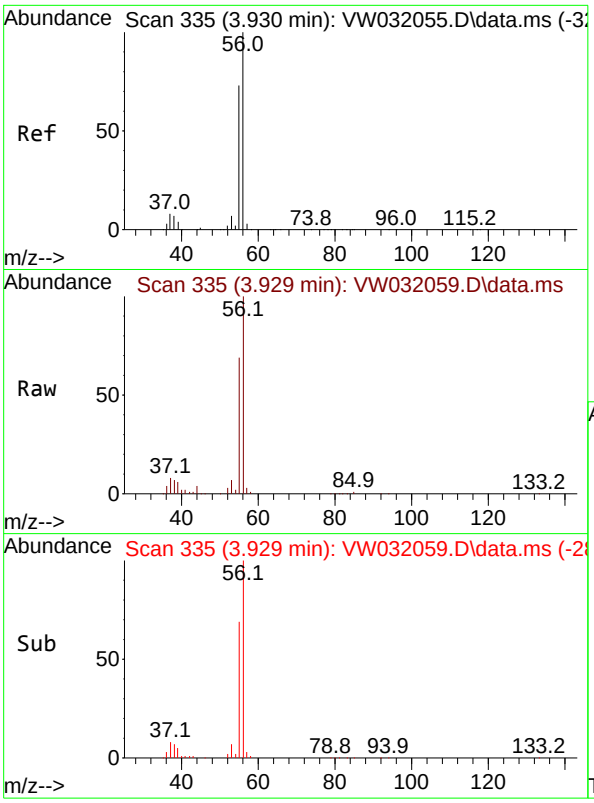




#12
1,1-Dichloroethene
Concen: 47.992 ug/l
RT: 4.076 min Scan# 359
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 96 Resp: 131802

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 156.3 | 123.4 | 185.2 |
| 98 | 57.4 | 49.5 | 74.3 |



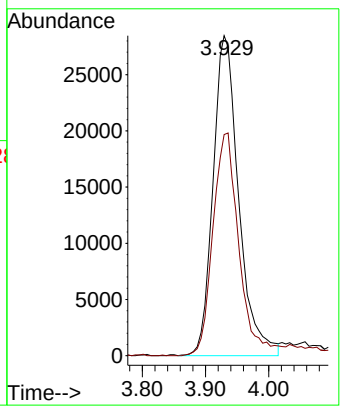


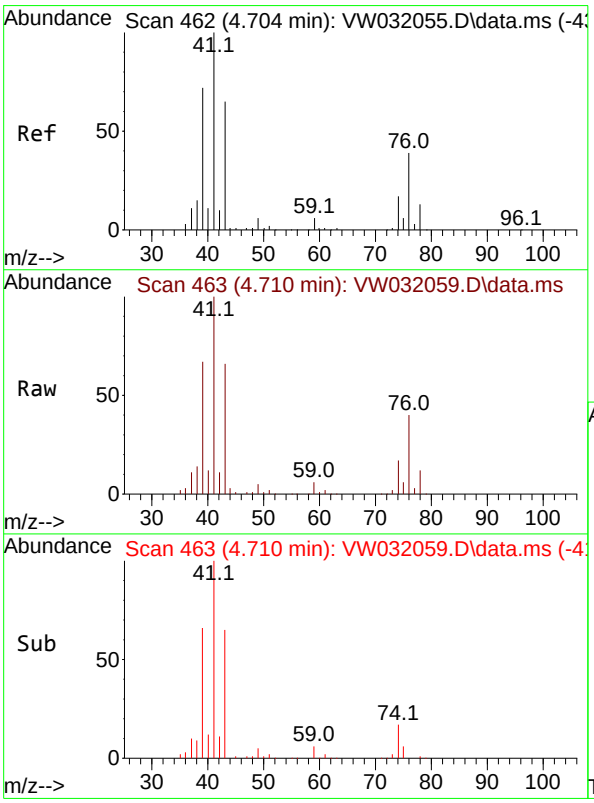

#13
Acrolein
Concen: 236.960 ug/l
RT: 3.929 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion: 56 Resp: 80072

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 71.1 | 55.4 | 83.2 |

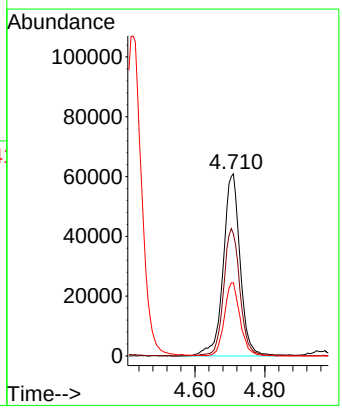


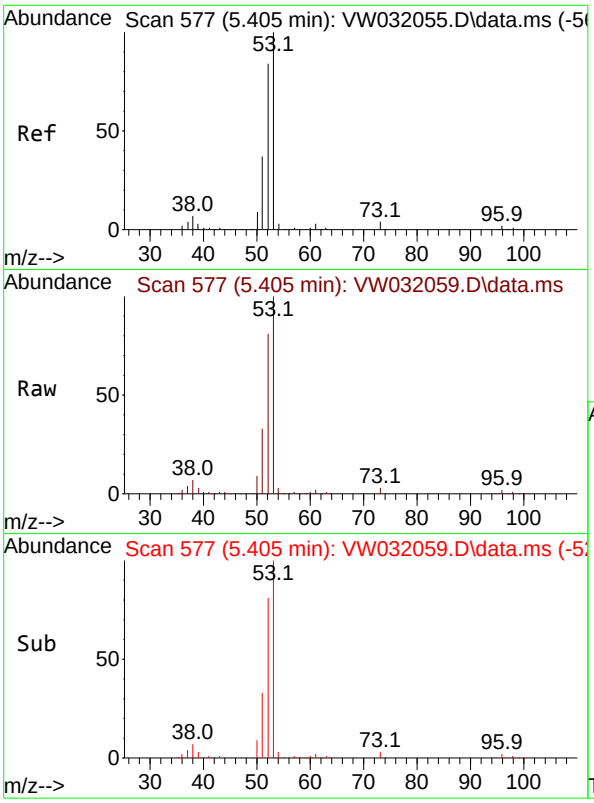




#14
Allyl chloride
Concen: 51.094 ug/l
RT: 4.710 min Scan# 463
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 41 Resp: 204222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 66.9 | 54.5 | 81.7 |
| 76 | 37.4 | 29.3 | 43.9 |



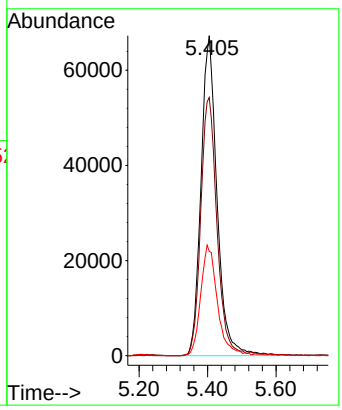


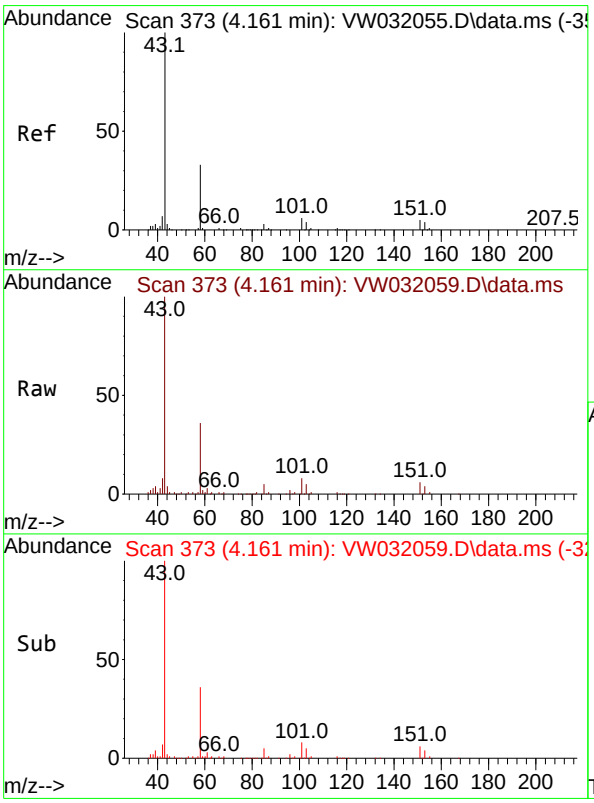

#15
Acrylonitrile
Concen: 265.958 ug/l
RT: 5.405 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion: 53 Resp: 219409

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.2 | 66.1 | 99.1 |
| 51 | 36.0 | 29.2 | 43.8 |

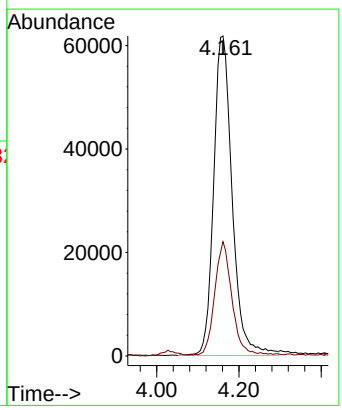


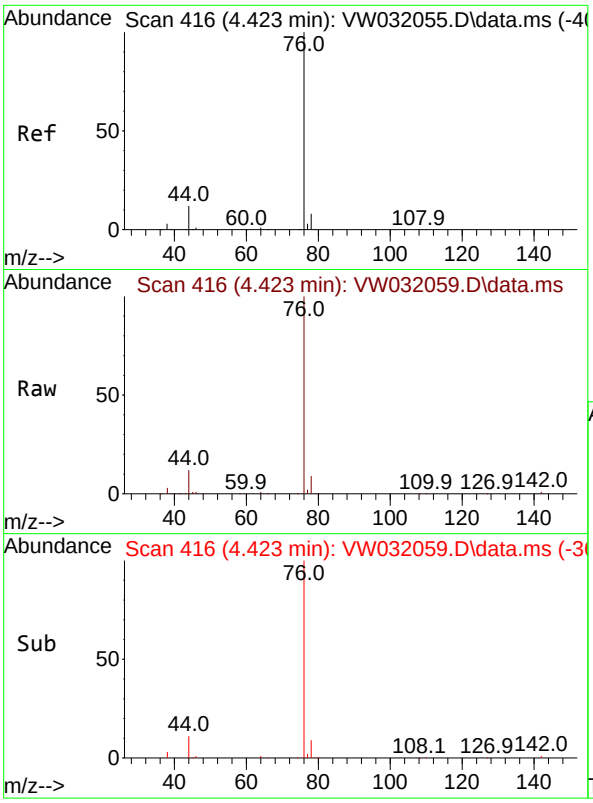




#16
Acetone
Concen: 254.262 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 43 Resp: 192802

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 35.1 | 26.6 | 39.8 |



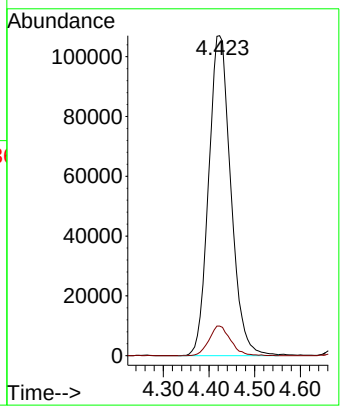


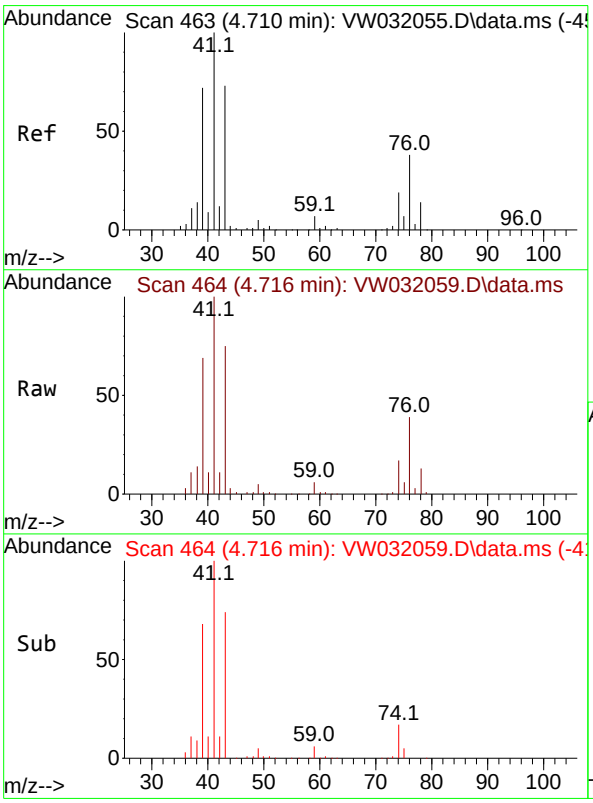

#17
Carbon Disulfide
Concen: 48.970 ug/l
RT: 4.423 min Scan# 4
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion: 76 Resp: 360982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.3 | 6.4 | 9.6 |

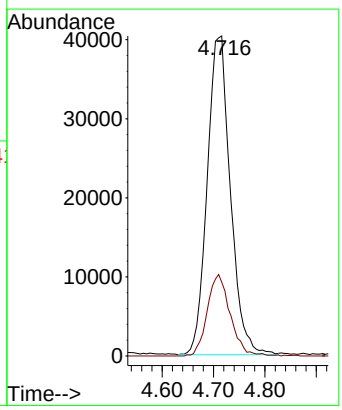


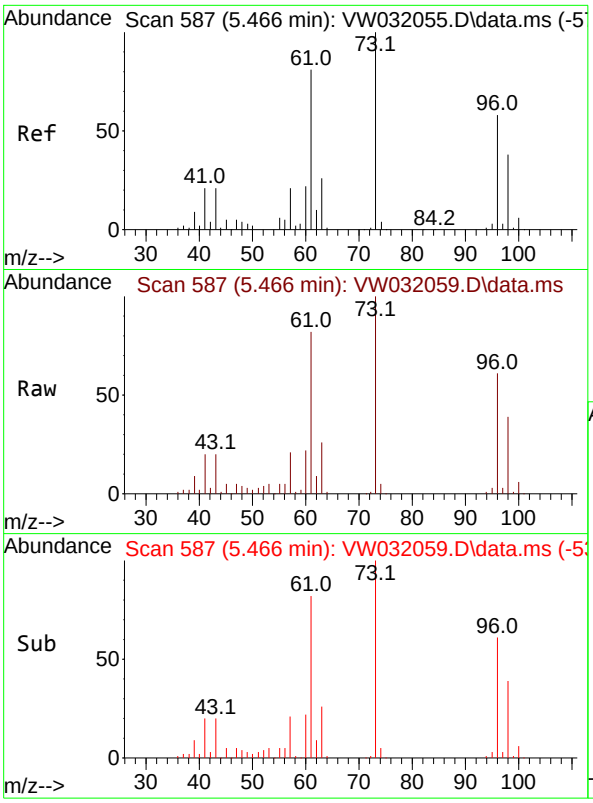




#18
Methyl Acetate
Concen: 52.614 ug/l
RT: 4.716 min Scan# 464
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 43 Resp: 126246

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 25.3 | 20.6 | 31.0 |



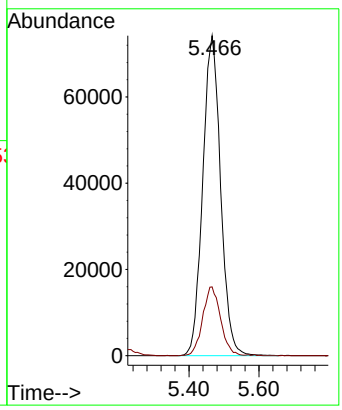


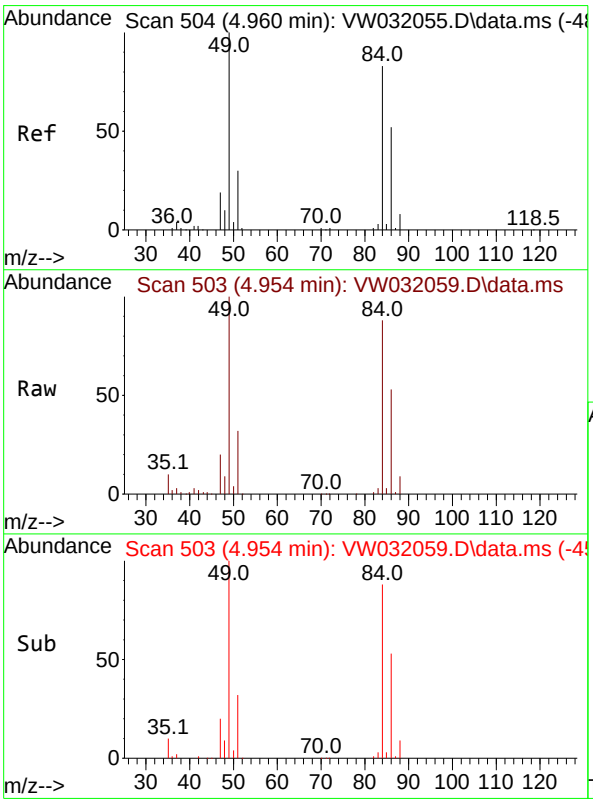

#19
Methyl tert-butyl Ether
Concen: 54.465 ug/l
RT: 5.466 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion: 73 Resp: 263546

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.5 | 17.2 | 25.8 |

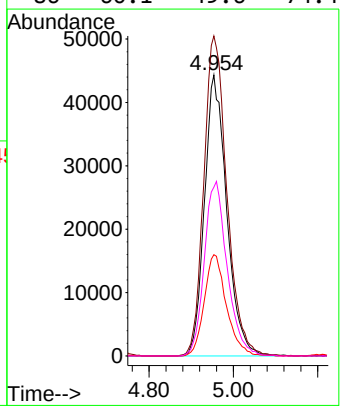


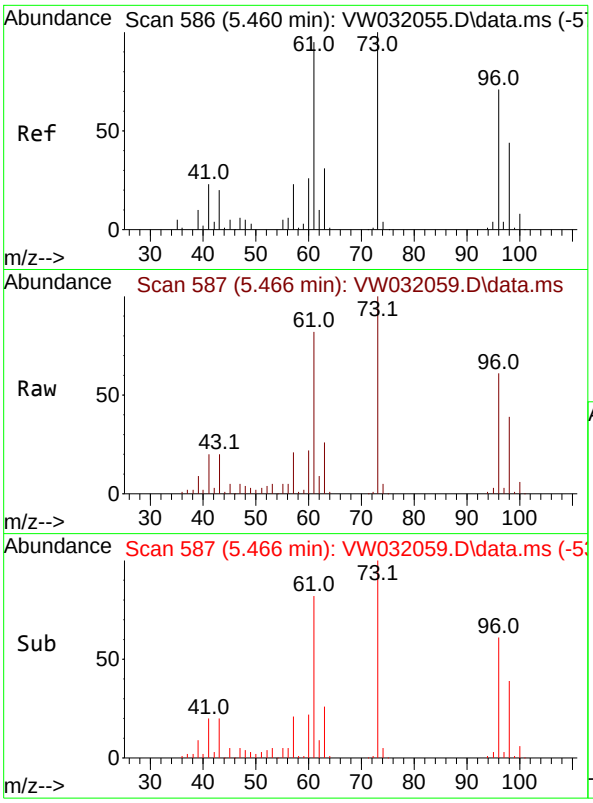




#20
Methylene Chloride
Concen: 46.453 ug/l
RT: 4.954 min Scan# 503
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 84 Resp: 162865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 113.9 | 95.9 | 143.9 |
| 51 | 36.1 | 28.6 | 43.0 |
| 86 | 60.1 | 49.6 | 74.4 |



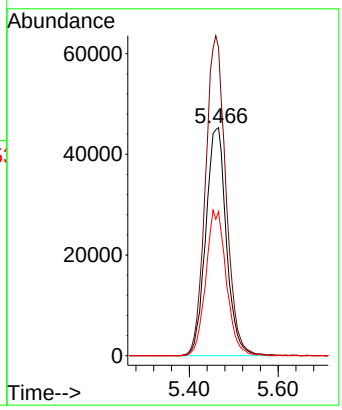


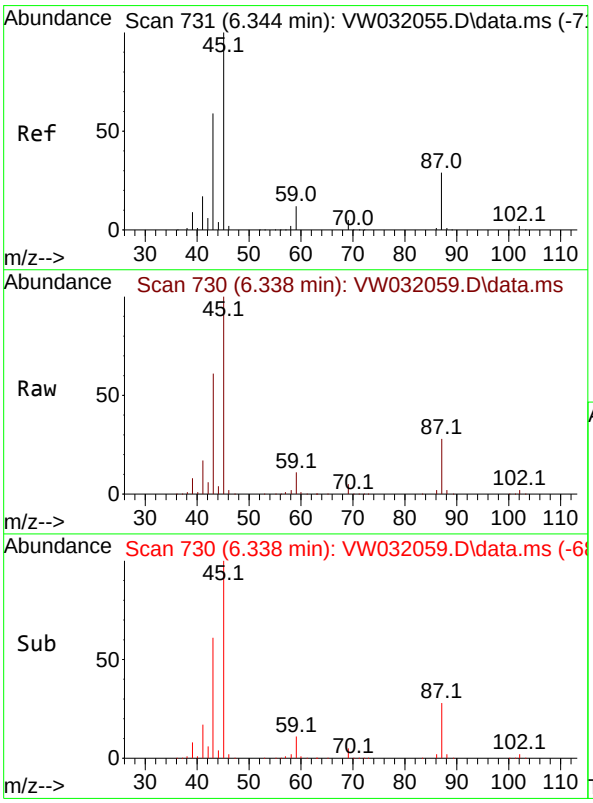

#21
trans-1,2-Dichloroethene
Concen: 50.035 ug/l
RT: 5.466 min Scan# 5
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion: 96 Resp: 145825

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 135.2 | 106.8 | 160.2 |
| 98 | 63.3 | 49.6 | 74.4 |

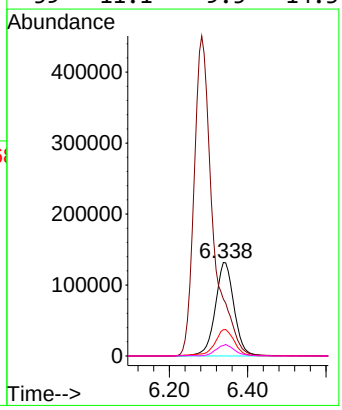


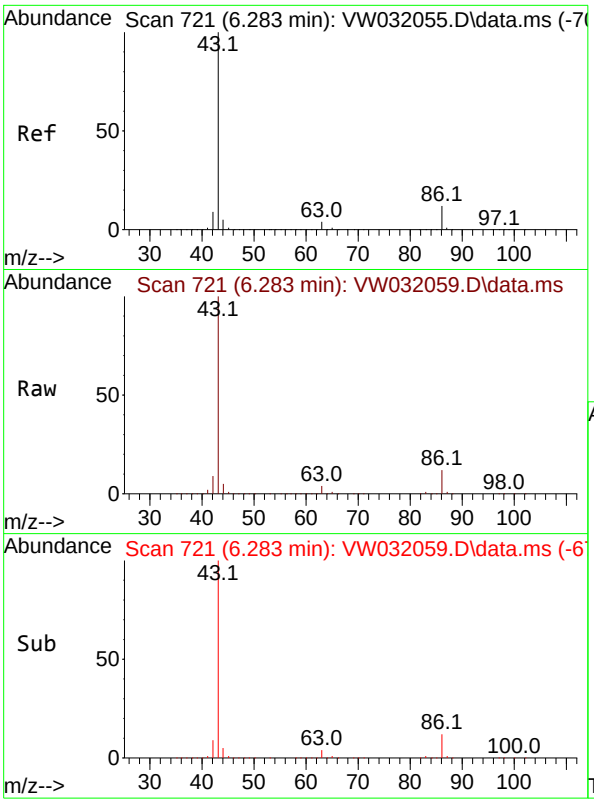




#22
Diisopropyl ether
Concen: 52.038 ug/l
RT: 6.338 min Scan# 730
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 45 Resp: 438483

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 60.4 | 47.0 | 70.4 |
| 87 | 28.0 | 23.8 | 35.8 |
| 59 | 11.1 | 9.5 | 14.3 |



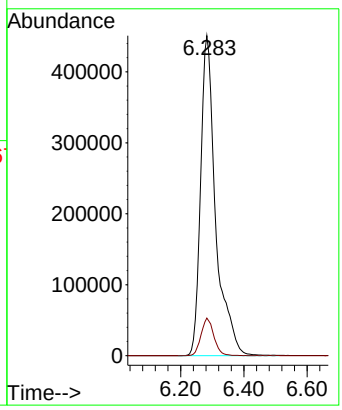


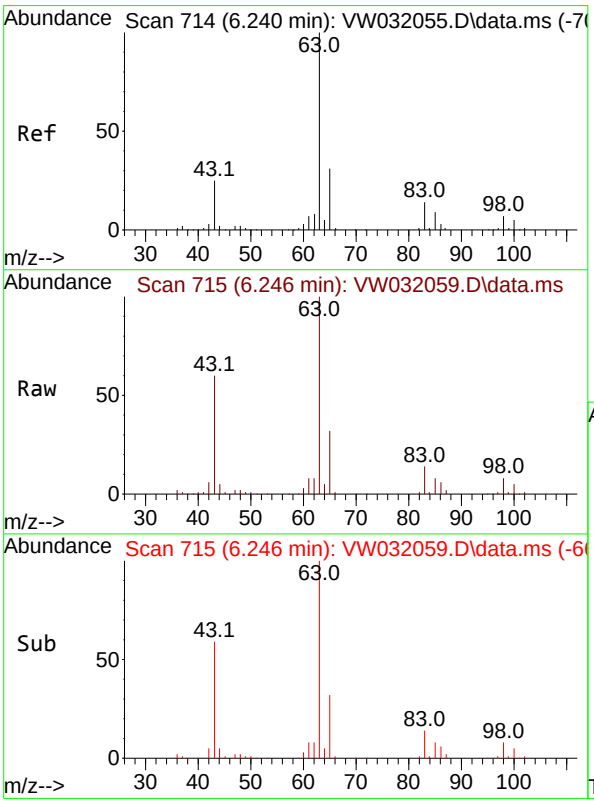

#23
Vinyl Acetate
Concen: 270.210 ug/l
RT: 6.283 min Scan# 7
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion: 43 Resp: 1494873

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.7 | 9.4 | 14.0 |

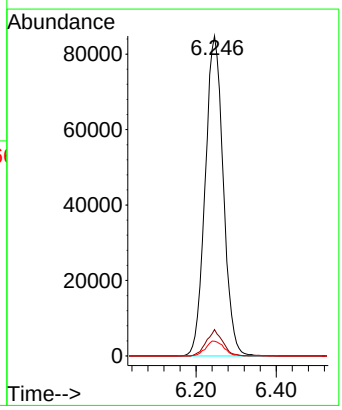


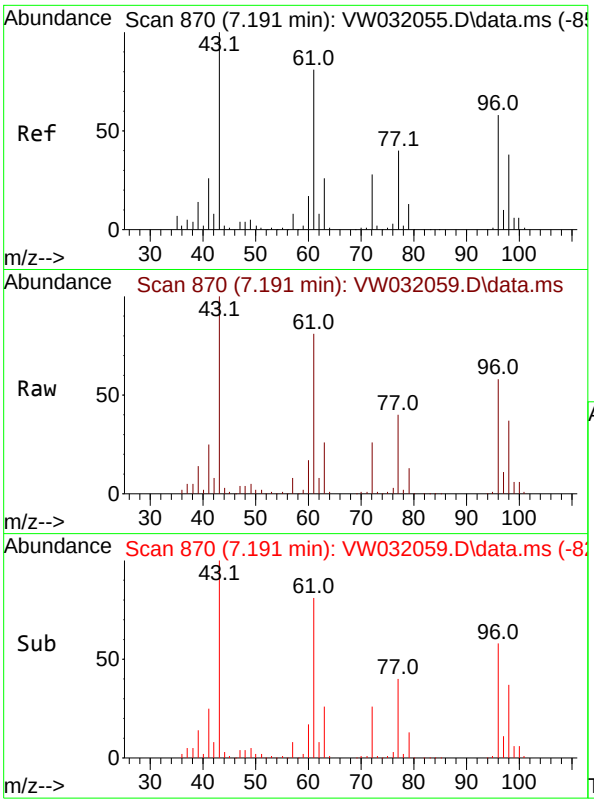




#24
1,1-Dichloroethane
Concen: 49.234 ug/l
RT: 6.246 min Scan# 715
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 63 Resp: 265060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 8.3 | 3.7 | 11.1 |
| 100 | 4.6 | 2.5 | 7.4 |



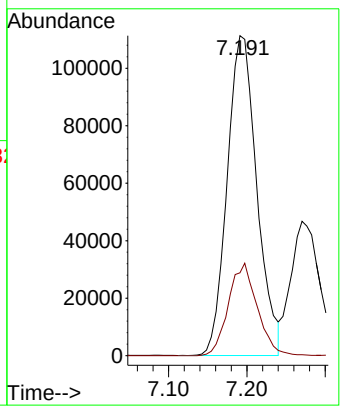


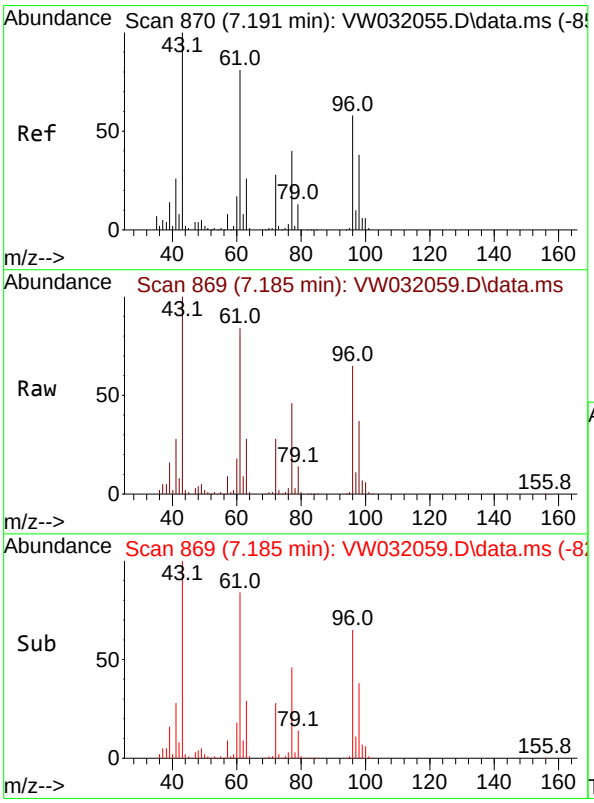

#25
2-Butanone
Concen: 272.083 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion: 43 Resp: 293227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 25.9 | 22.3 | 33.5 |

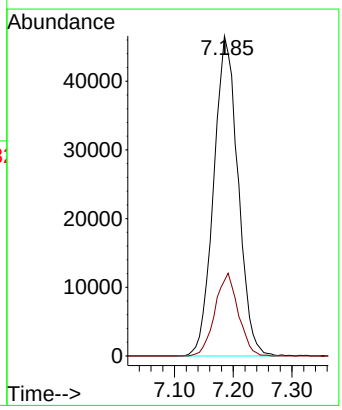


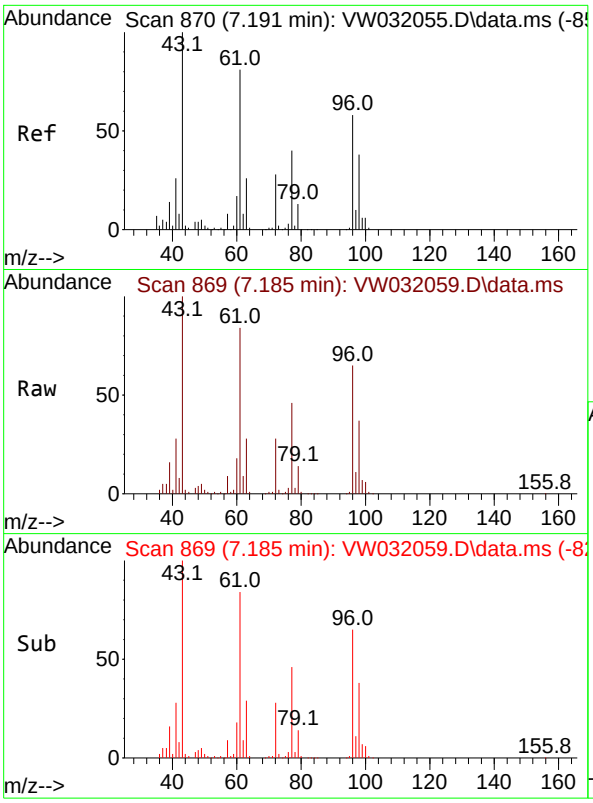




#26
2,2-Dichloropropane
Concen: 49.659 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 77 Resp: 134123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 24.7 | 12.3 | 36.9 |



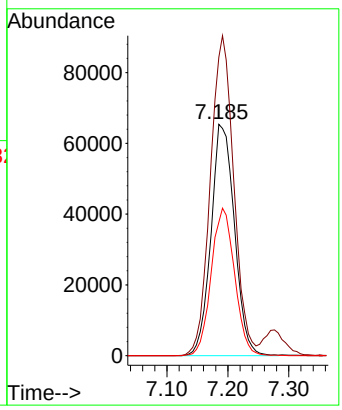


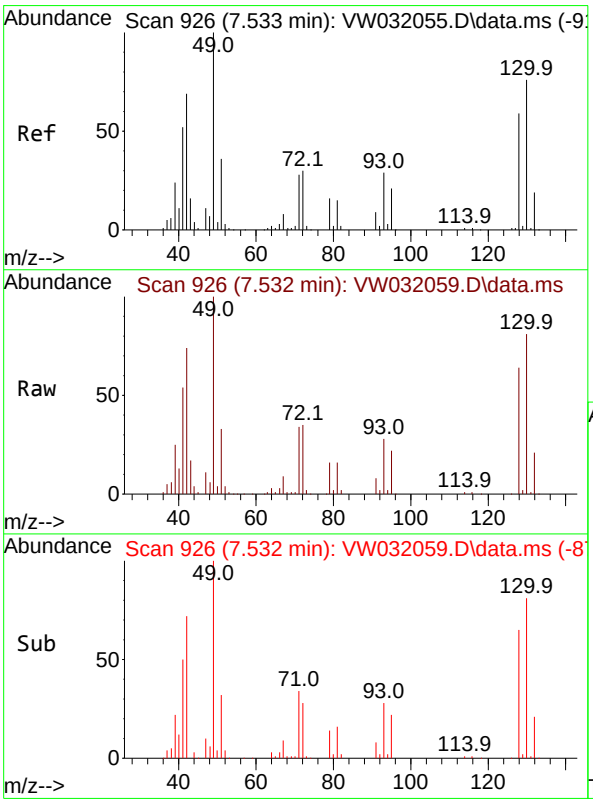

#27
cis-1,2-Dichloroethene
Concen: 51.404 ug/l
RT: 7.185 min Scan# 8
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion: 96 Resp: 175120

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 137.9 | 0.0 | 281.2 |
| 98 | 63.6 | 0.0 | 130.8 |

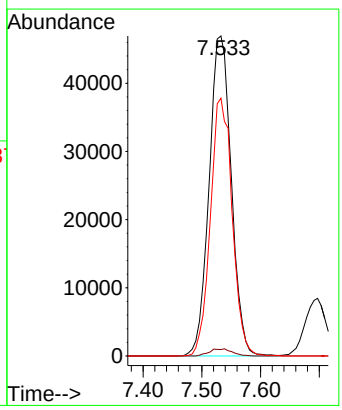


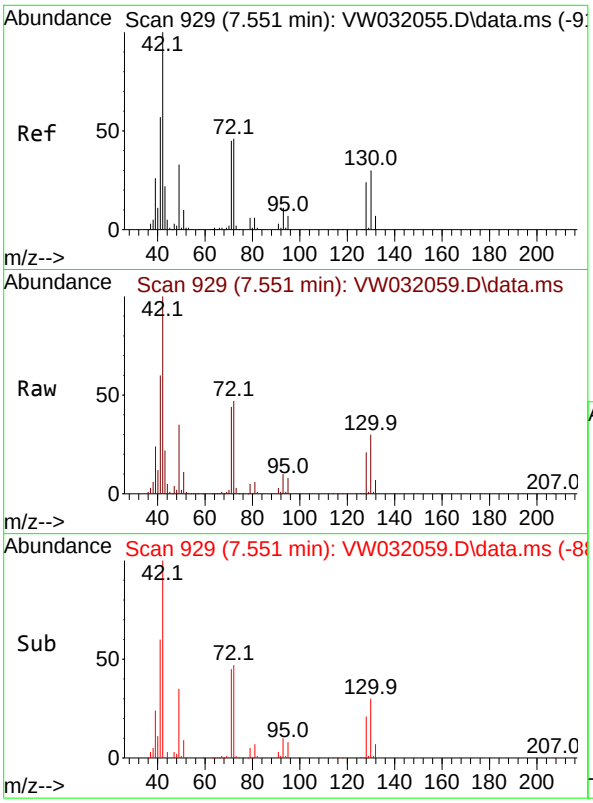




#28
Bromochloromethane
Concen: 50.315 ug/l
RT: 7.532 min Scan# 926
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 49 Resp: 123268

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.3 | 0.0 | 4.2 |
| 130 | 79.0 | 61.9 | 92.9 |



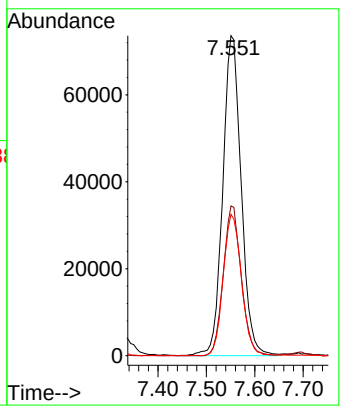


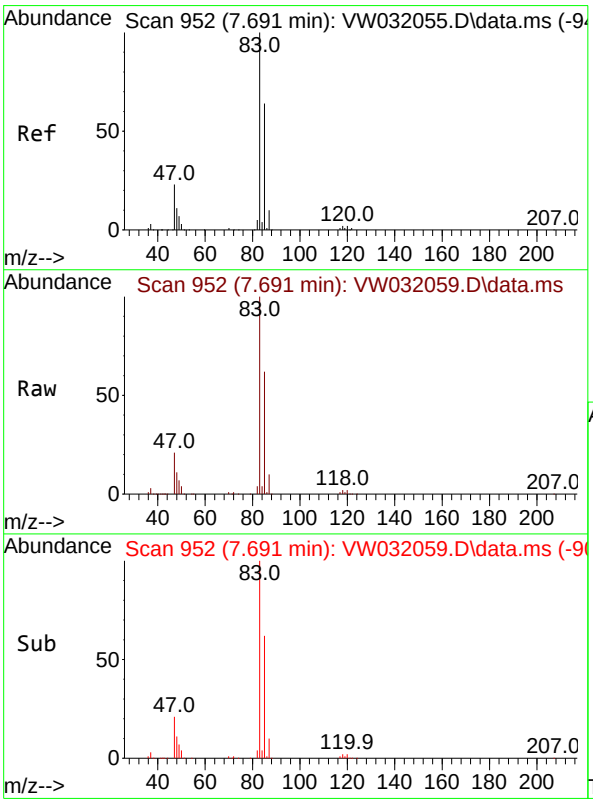

#29
Tetrahydrofuran
Concen: 274.235 ug/l
RT: 7.551 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion: 42 Resp: 194909

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 45.7 | 36.6 | 55.0 |
| 71 | 43.9 | 34.7 | 52.1 |

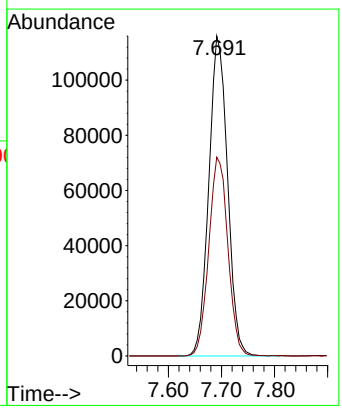


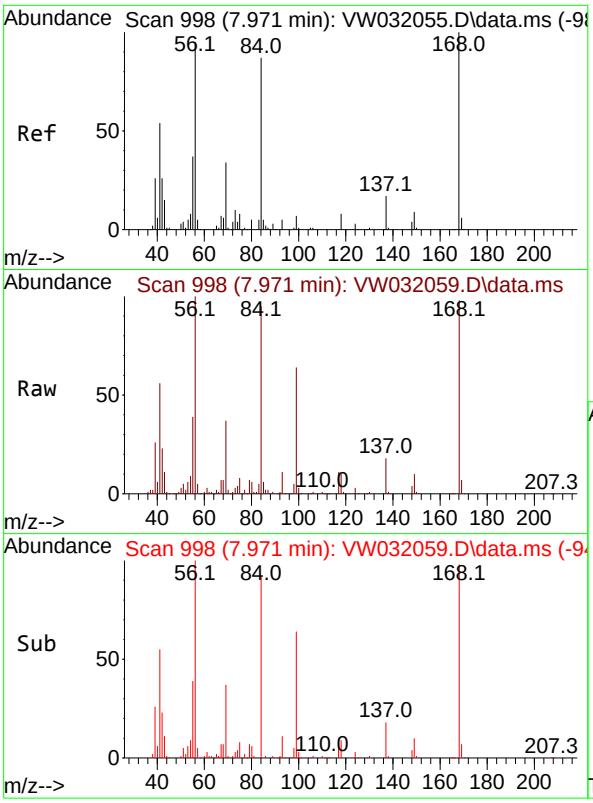




#30
Chloroform
Concen: 49.803 ug/l
RT: 7.691 min Scan# 952
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 83 Resp: 284250

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.1 | 51.0 | 76.4 |



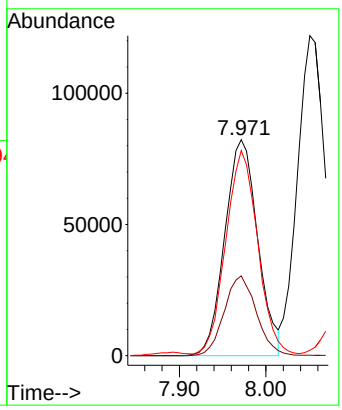


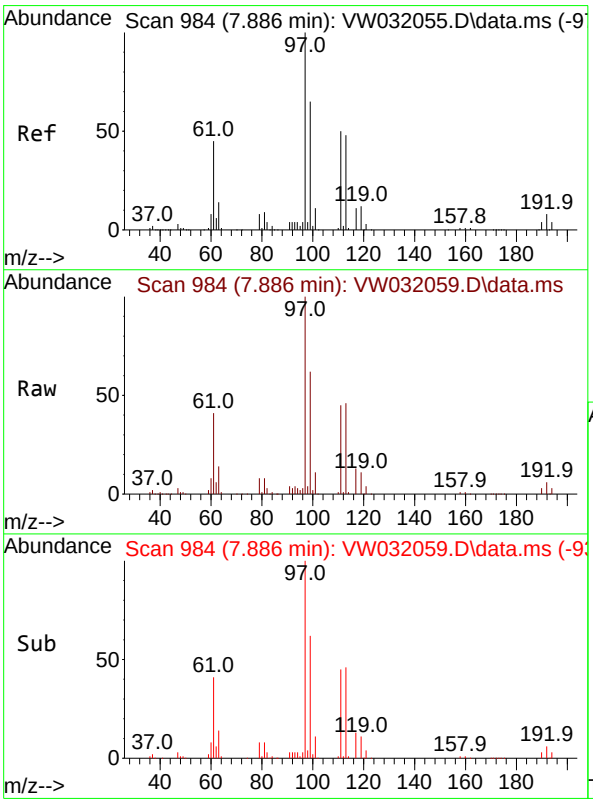

#31
Cyclohexane
Concen: 46.646 ug/l
RT: 7.971 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion: 56 Resp: 217714

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 36.9 | 28.6 | 42.8 |
| 84 | 93.6 | 73.0 | 109.4 |

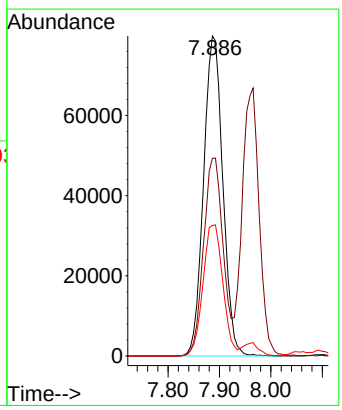


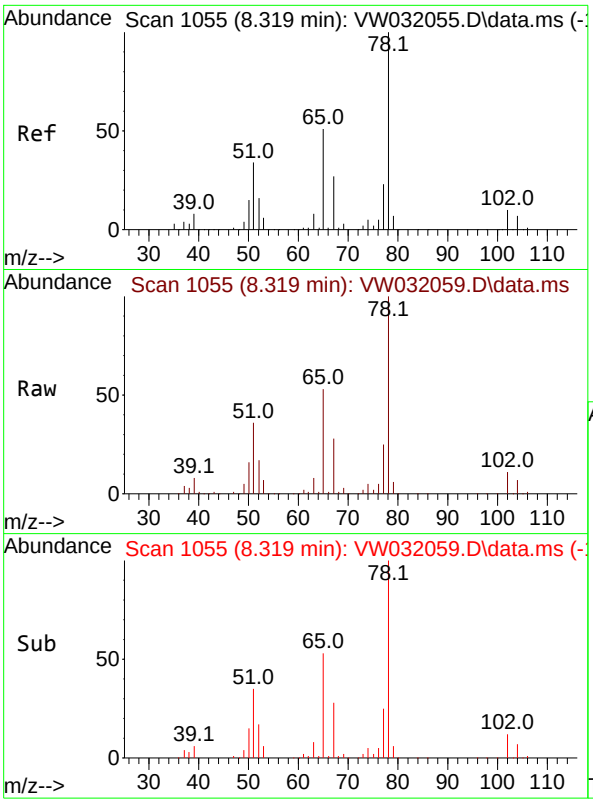




#32
1,1,1-Trichloroethane
Concen: 50.108 ug/l
RT: 7.886 min Scan# 984
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 97 Resp: 207733

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 62.3 | 51.8 | 77.8 |
| 61 | 42.4 | 35.9 | 53.9 |



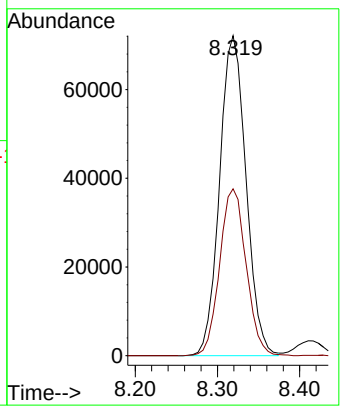


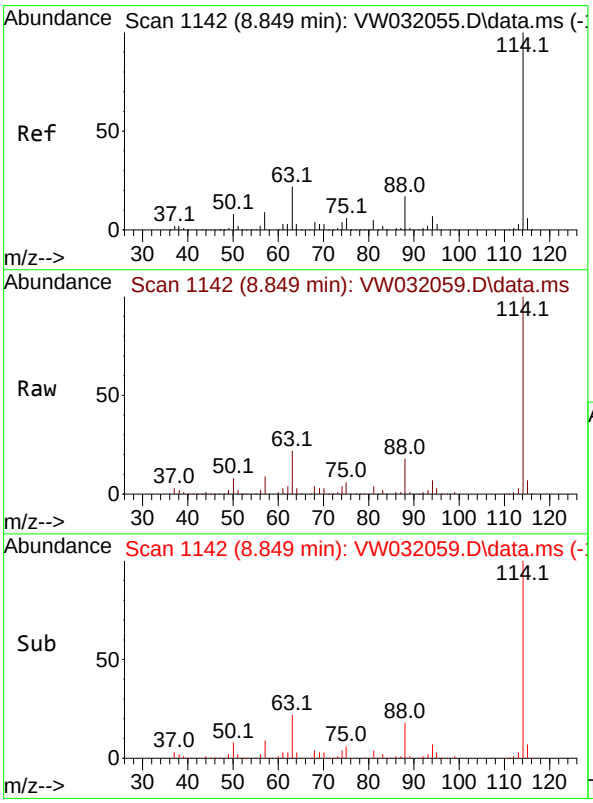

#33
1,2-Dichloroethane-d4
Concen: 49.205 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion: 65 Resp: 161155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.2 | 0.0 | 102.4 |

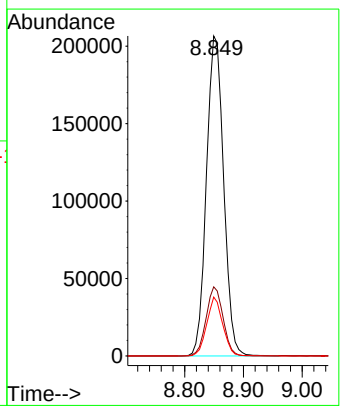


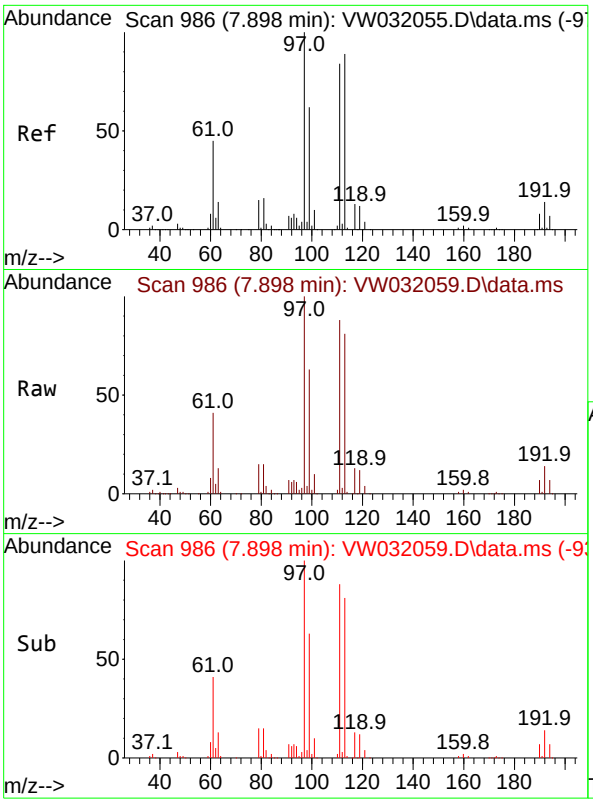




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:114 Resp: 420434

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.6 | 0.0 | 43.0 |
| 88 | 18.4 | 0.0 | 33.8 |



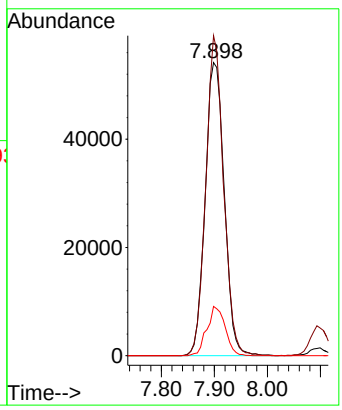


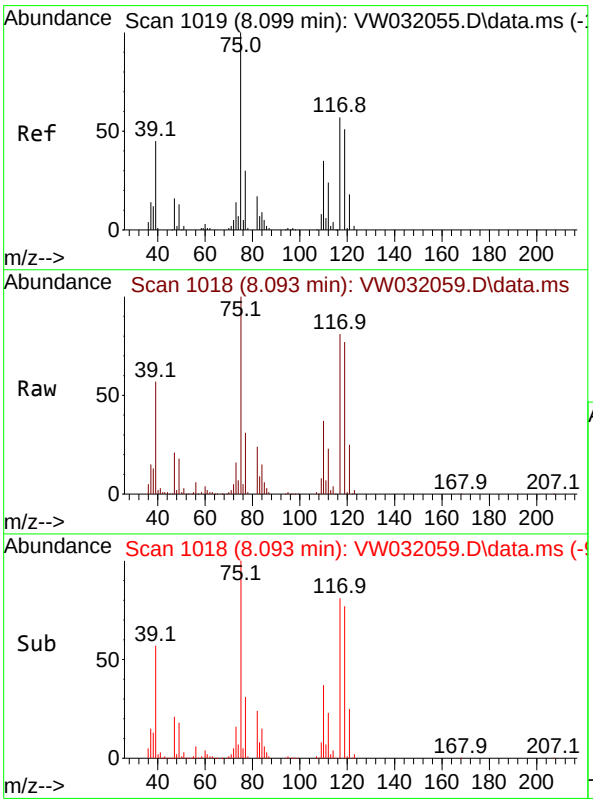

#35
Dibromofluoromethane
Concen: 49.939 ug/l
RT: 7.898 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion:113 Resp: 135642

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.0 | 80.1 | 120.1 |
| 192 | 16.1 | 13.1 | 19.7 |

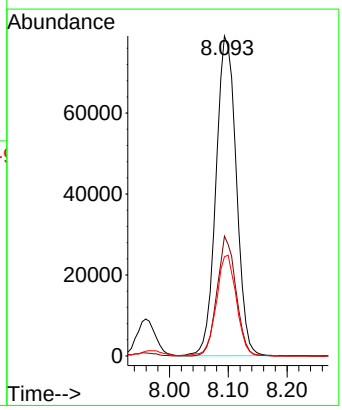


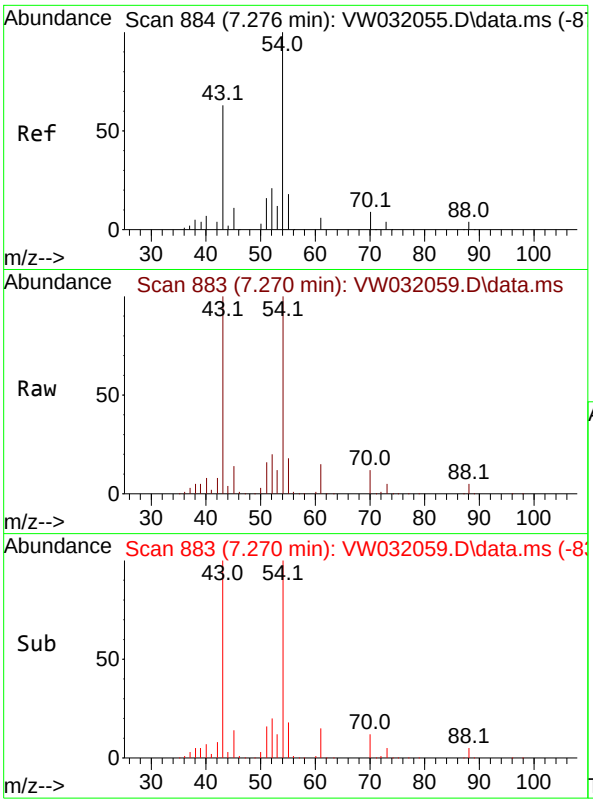




#36
1,1-Dichloropropene
Concen: 49.574 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 75 Resp: 189820

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 34.9 | 17.4 | 52.2 |
| 77 | 31.3 | 24.7 | 37.1 |



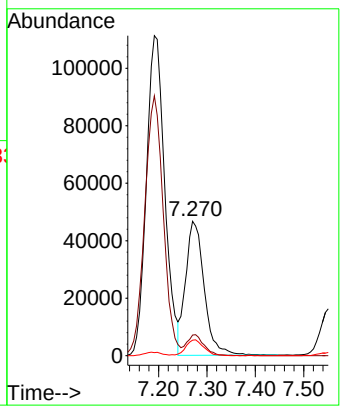


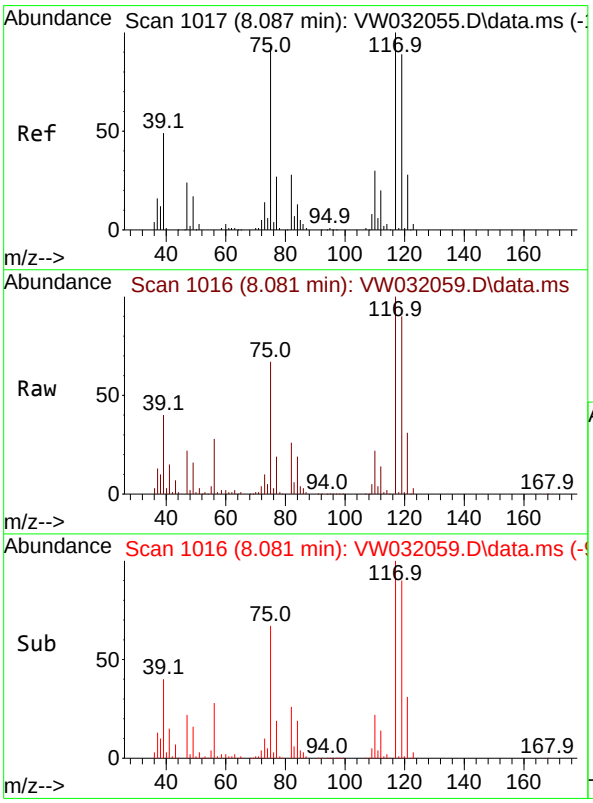

#37
Ethyl Acetate
Concen: 55.214 ug/l
RT: 7.270 min Scan# 8
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion: 43 Resp: 124516

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.6 | 11.8 | 17.6 |
| 70 | 11.3 | 9.4 | 14.0 |

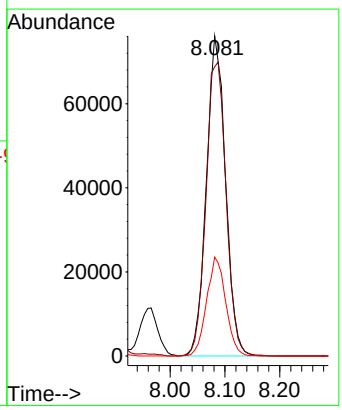


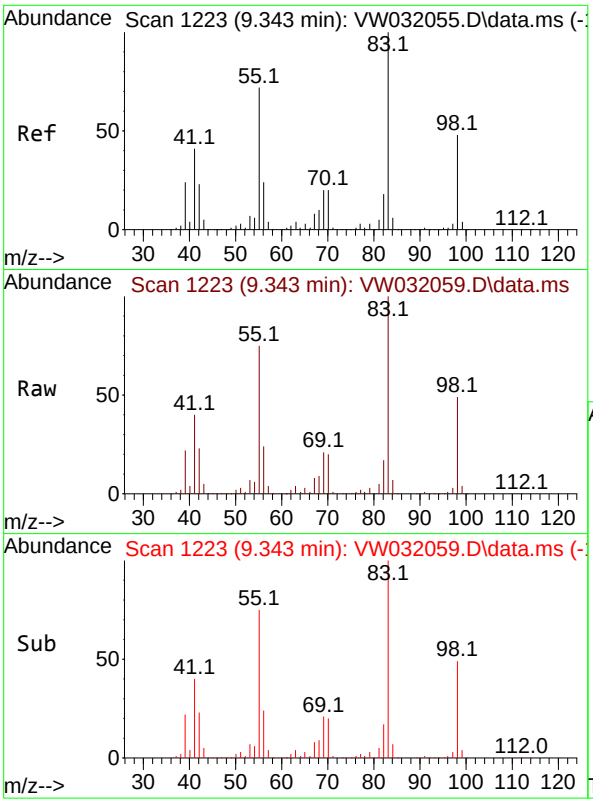




#38
Carbon Tetrachloride
Concen: 50.015 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:117 Resp: 184816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 90.4 | 71.4 | 107.2 |
| 121 | 30.9 | 22.3 | 33.5 |



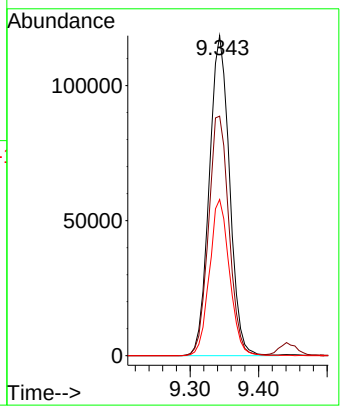


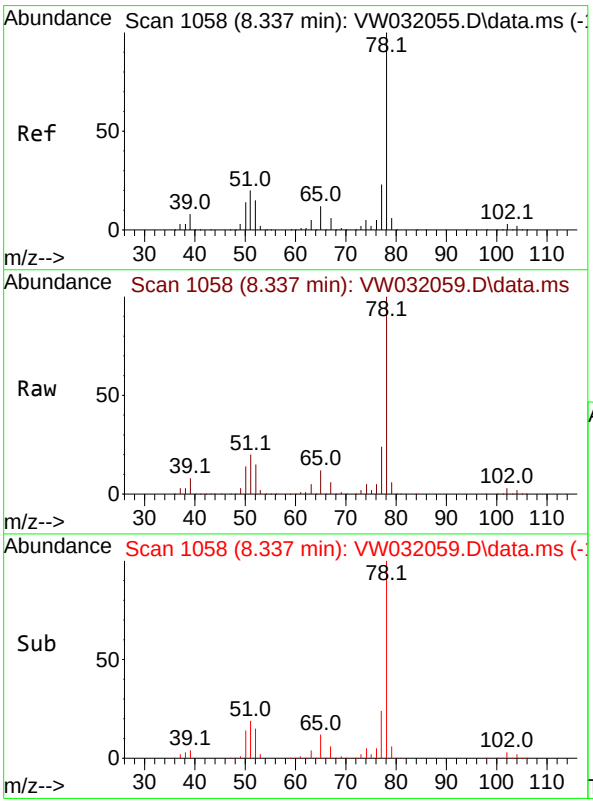

#39
Methylcyclohexane
Concen: 52.181 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion: 83 Resp: 243533

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 74.9 | 57.9 | 86.9 |
| 98 | 48.8 | 38.3 | 57.5 |

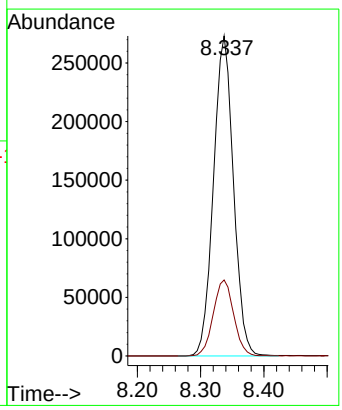


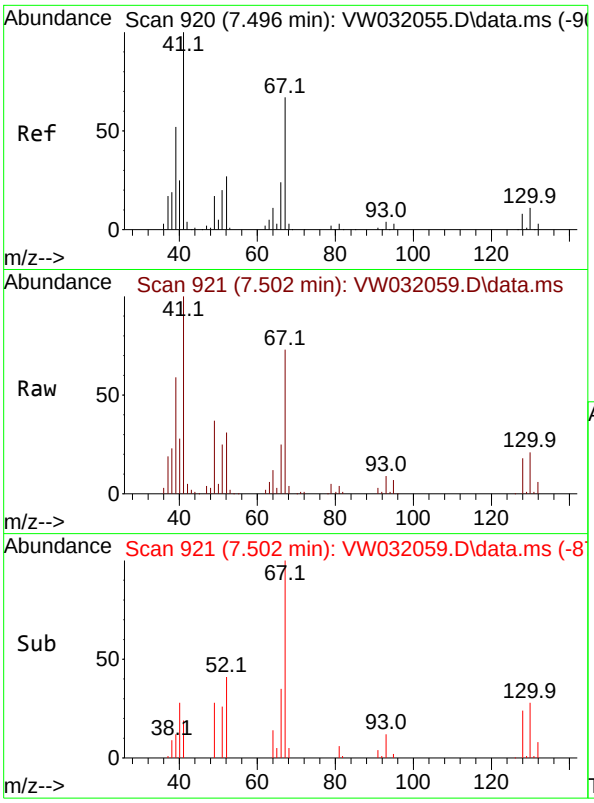




#40
Benzene
Concen: 50.272 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 78 Resp: 598350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.7 | 18.4 | 27.6 |



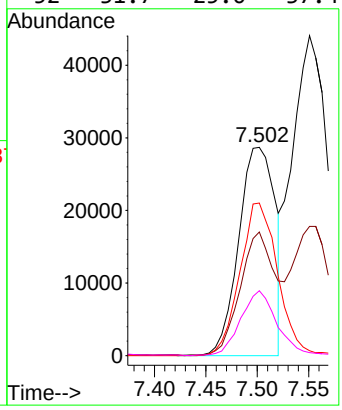


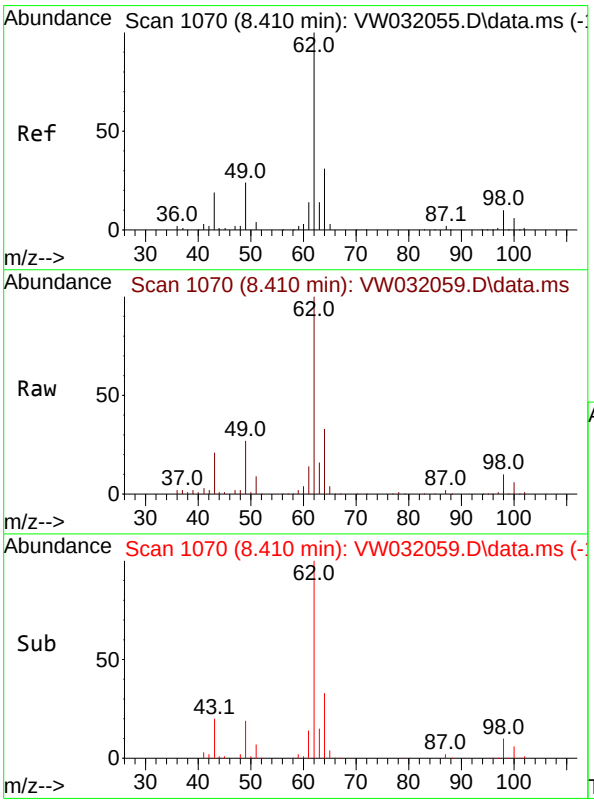

#41
Methacrylonitrile
Concen: 55.204 ug/l
RT: 7.502 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion: 41 Resp: 70600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 60.0 | 42.6 | 63.8 |
| 67 | 76.4 | 61.0 | 91.4 |
| 52 | 31.7 | 25.0 | 37.4 |

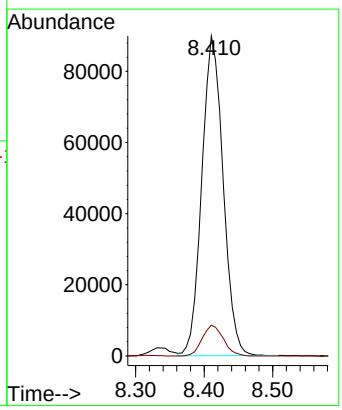


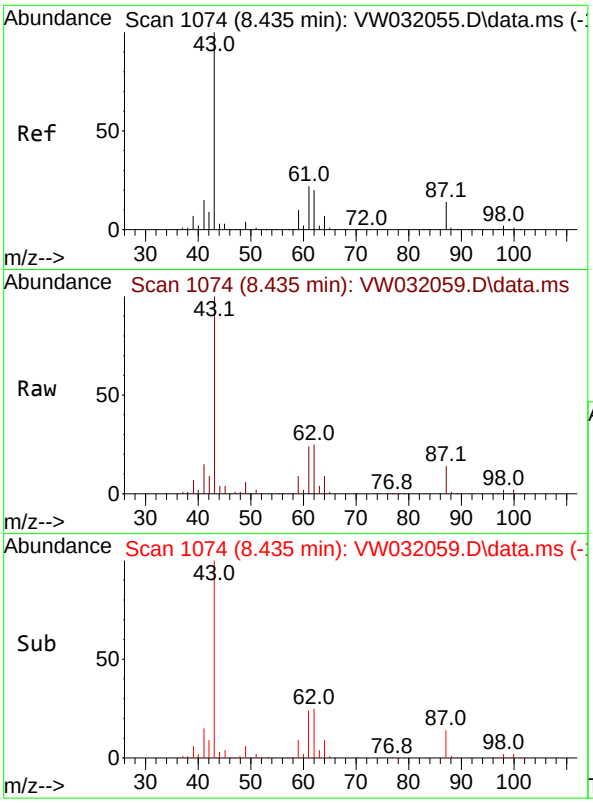




#42
1,2-Dichloroethane
Concen: 51.154 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 62 Resp: 194825

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.5 | 0.0 | 19.8 |



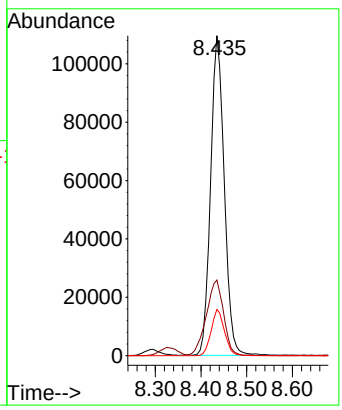


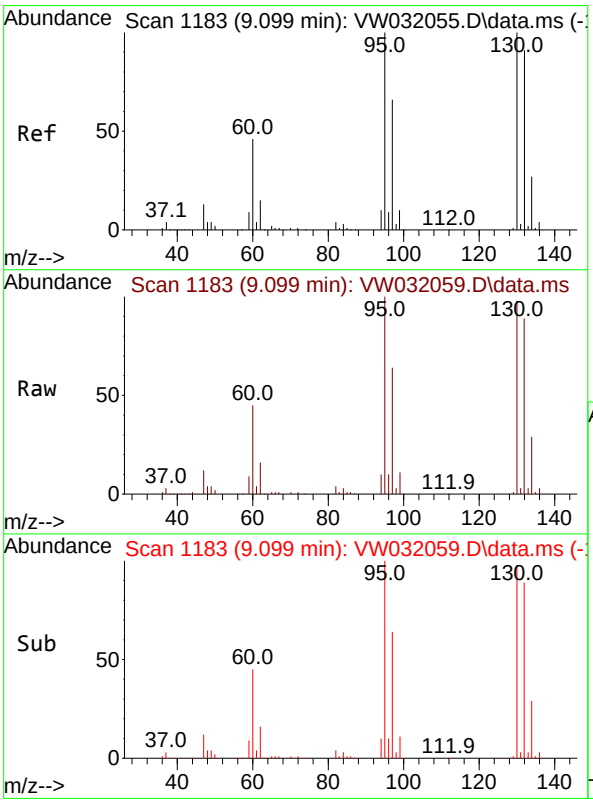

#43
Isopropyl Acetate
Concen: 54.846 ug/l
RT: 8.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion: 43 Resp: 227561

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 29.6 | 23.8 | 35.8 |
| 87 | 14.1 | 11.7 | 17.5 |

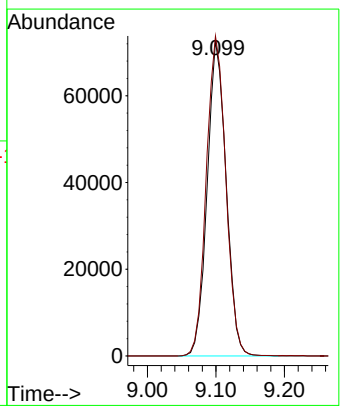


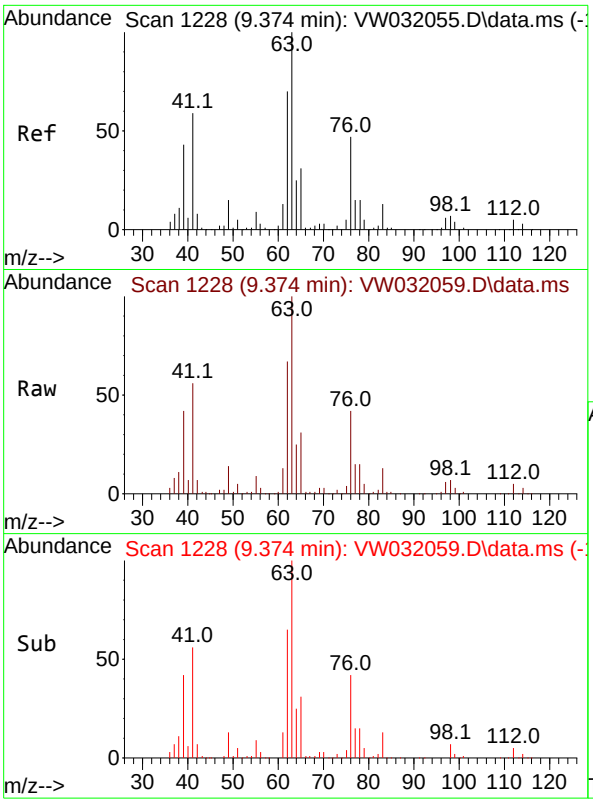




#44
Trichloroethene
Concen: 49.175 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:130 Resp: 139383

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 101.6 | 0.0 | 200.6 |



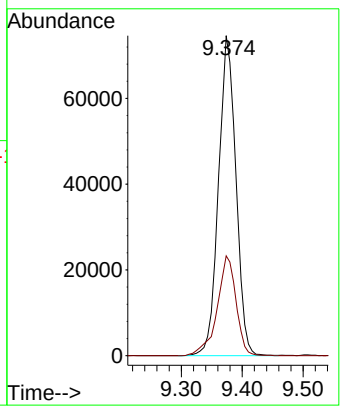


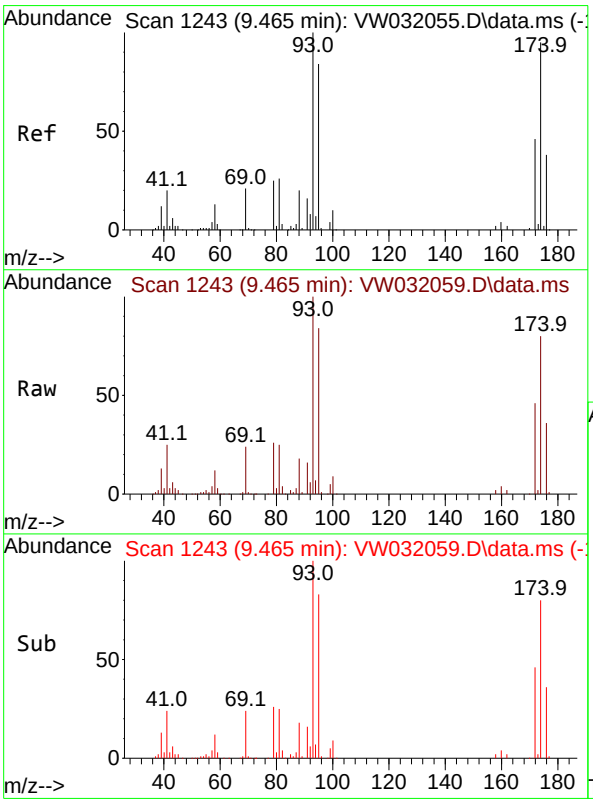

#45
1,2-Dichloropropane
Concen: 51.403 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion: 63 Resp: 147807

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.2 | 24.6 | 36.8 |

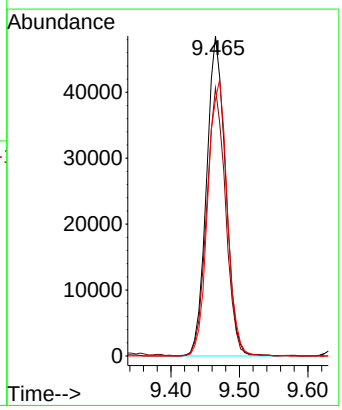


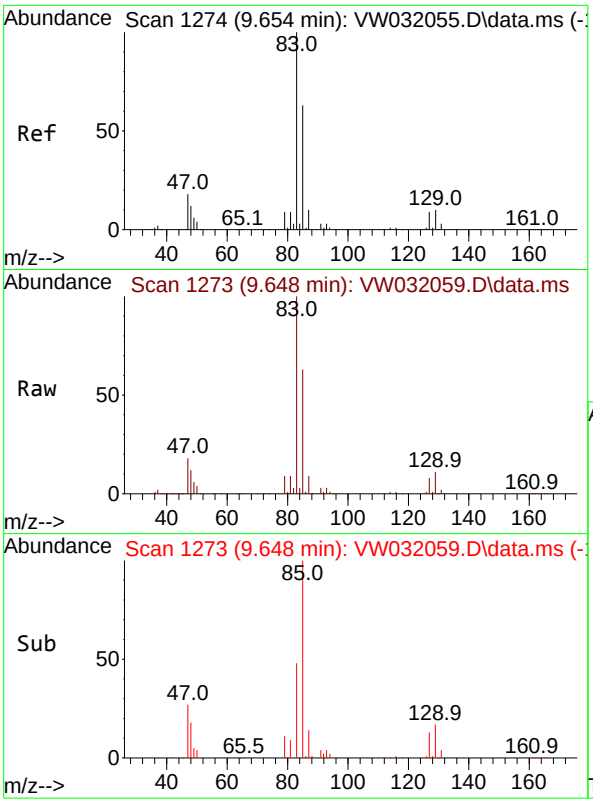




#46
Dibromomethane
Concen: 50.497 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 93 Resp: 93713

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 83.5 | 65.3 | 97.9 |
| 174 | 88.0 | 68.6 | 102.8 |



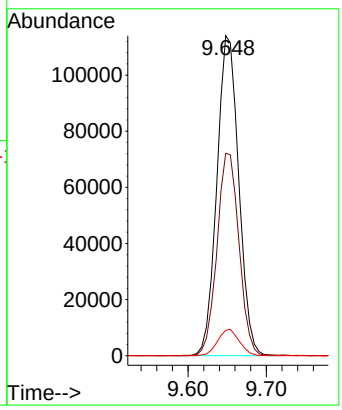


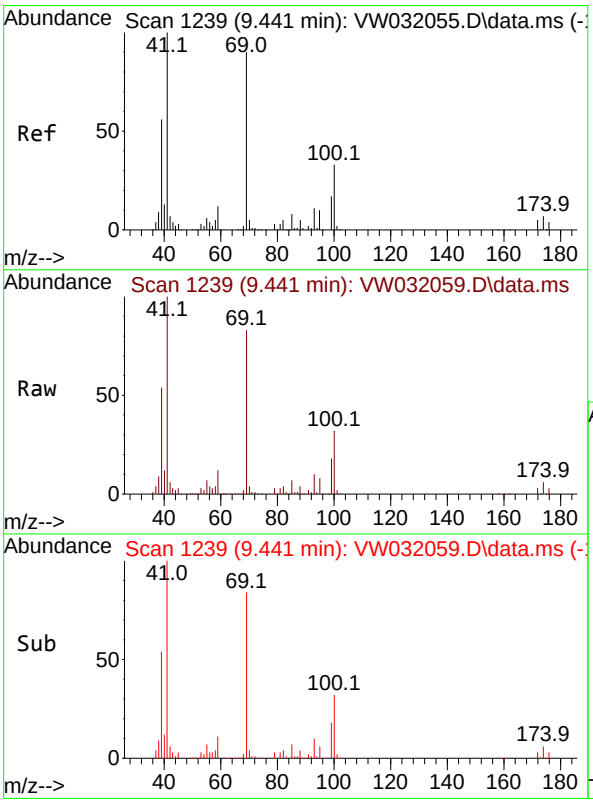

#47
Bromodichloromethane
Concen: 51.775 ug/l
RT: 9.648 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion: 83 Resp: 221409

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.3 | 50.6 | 75.8 |
| 127 | 7.9 | 6.9 | 10.3 |

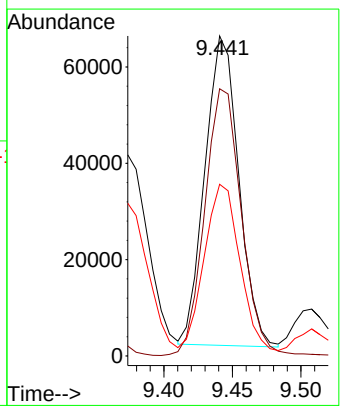


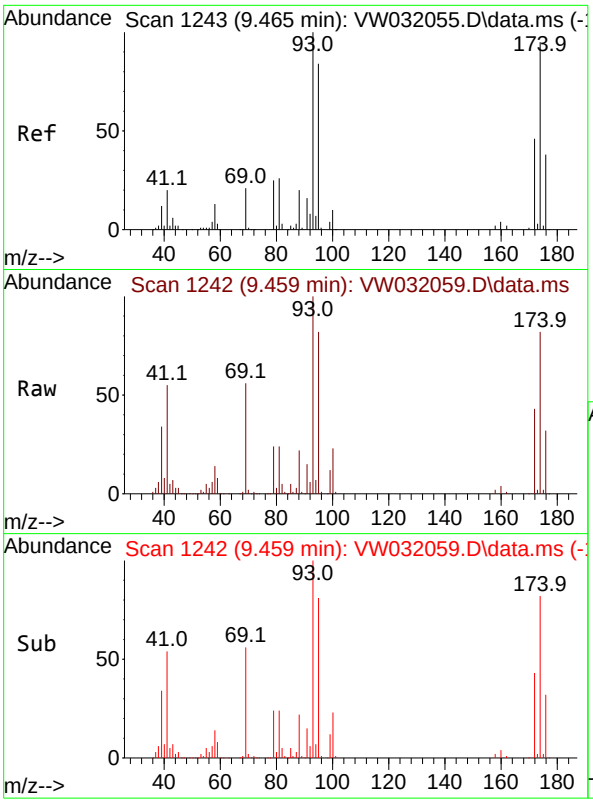




#48
Methyl methacrylate
Concen: 55.048 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 41 Resp: 110265

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 94.5 | 73.0 | 109.6 |
| 39 | 56.0 | 45.0 | 67.4 |



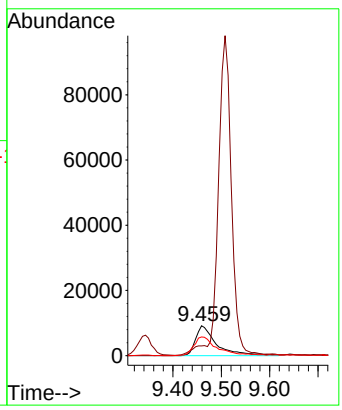


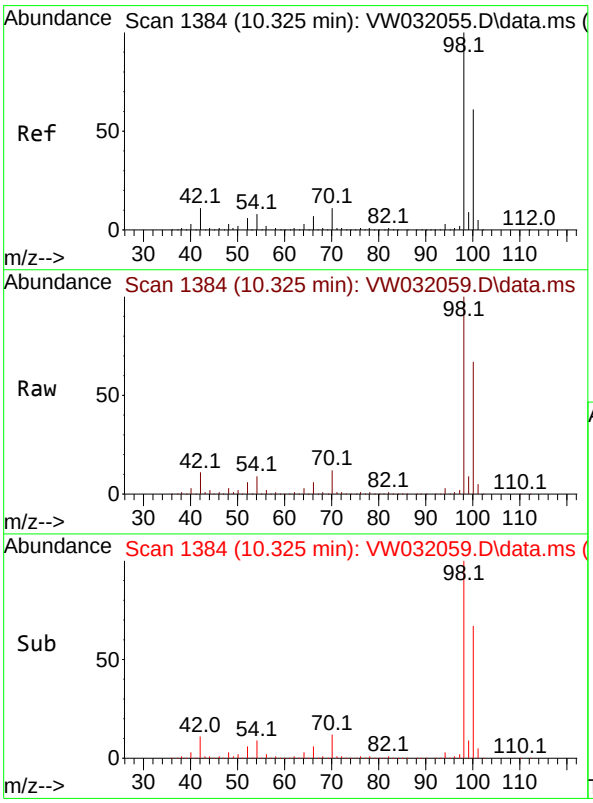

#49
1,4-Dioxane
Concen: 1155.151 ug/l
RT: 9.459 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion: 88 Resp: 27718

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 0.0 | 20.6 | 30.8# |
| 58 | 70.8 | 60.4 | 90.6 |

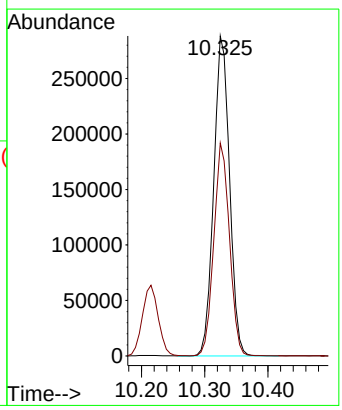


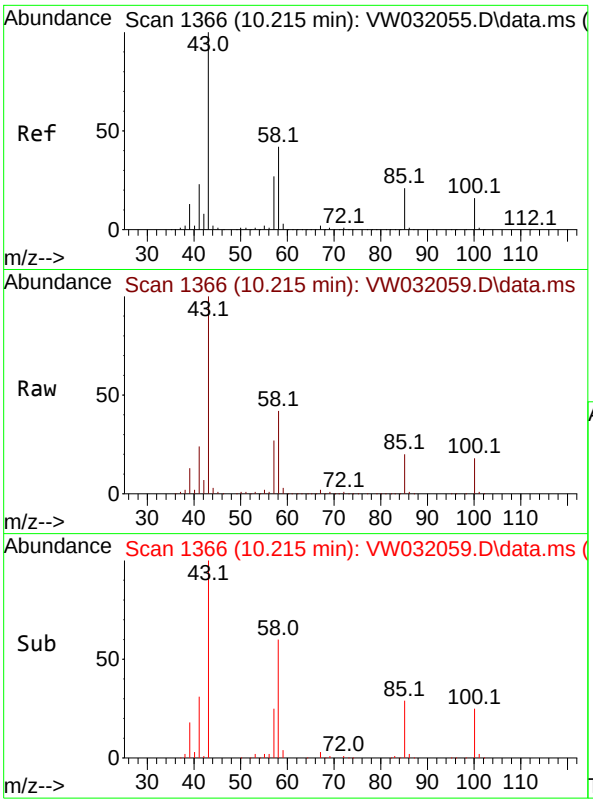




#50
Toluene-d8
Concen: 49.708 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 98 Resp: 499377

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.9 | 51.1 | 76.7 |



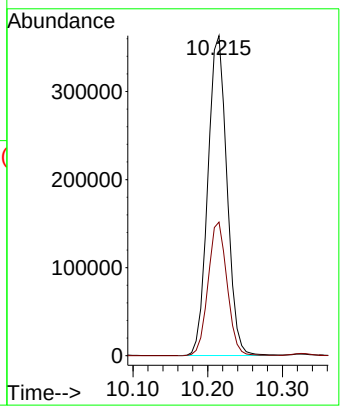


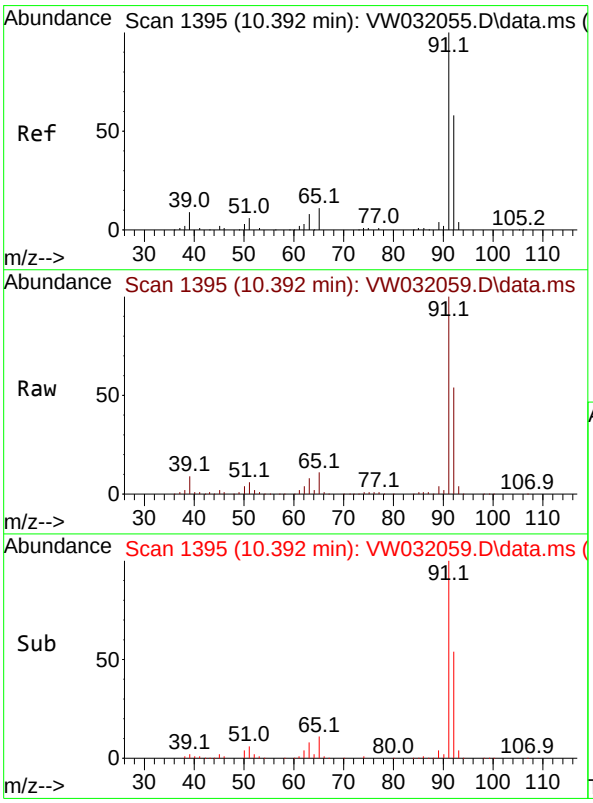

#51
4-Methyl-2-Pentanone
Concen: 275.585 ug/l
RT: 10.215 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion: 43 Resp: 645391

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 41.5 | 33.1 | 49.7 |

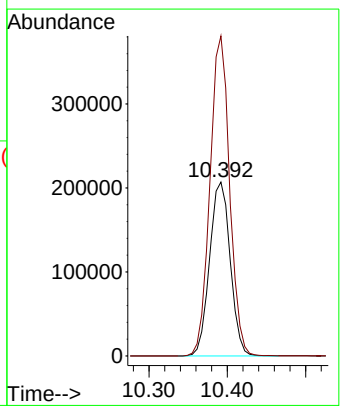


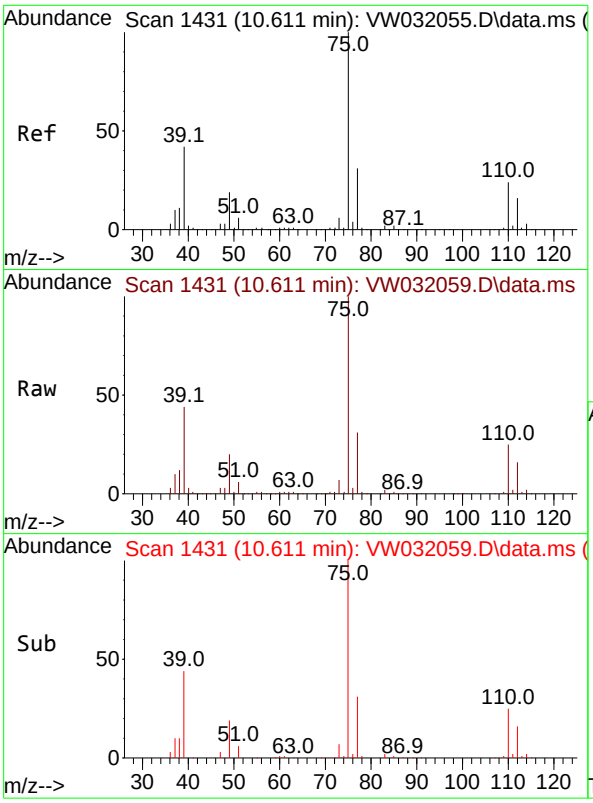




#52
Toluene
Concen: 50.410 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 92 Resp: 377919

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 175.7 | 136.3 | 204.5 |



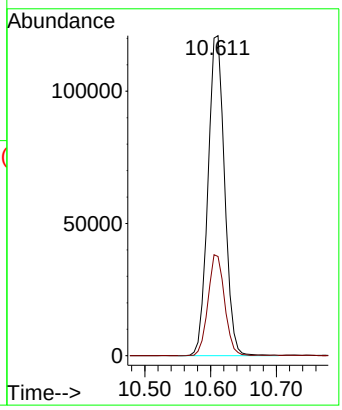


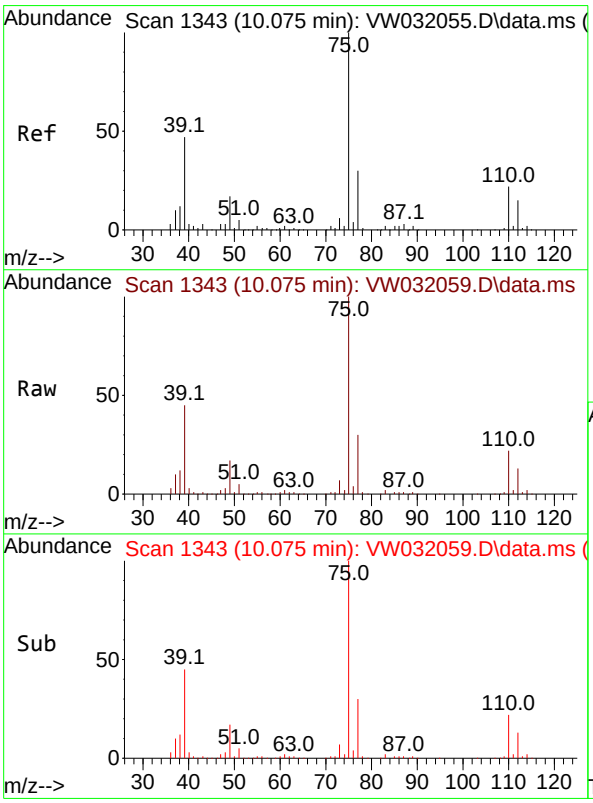

#53
t-1,3-Dichloropropene
Concen: 53.108 ug/l
RT: 10.611 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion: 75 Resp: 212772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.0 | 25.0 | 37.6 |

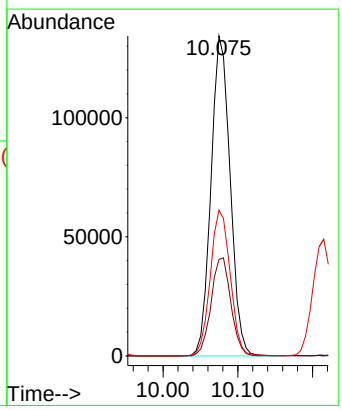


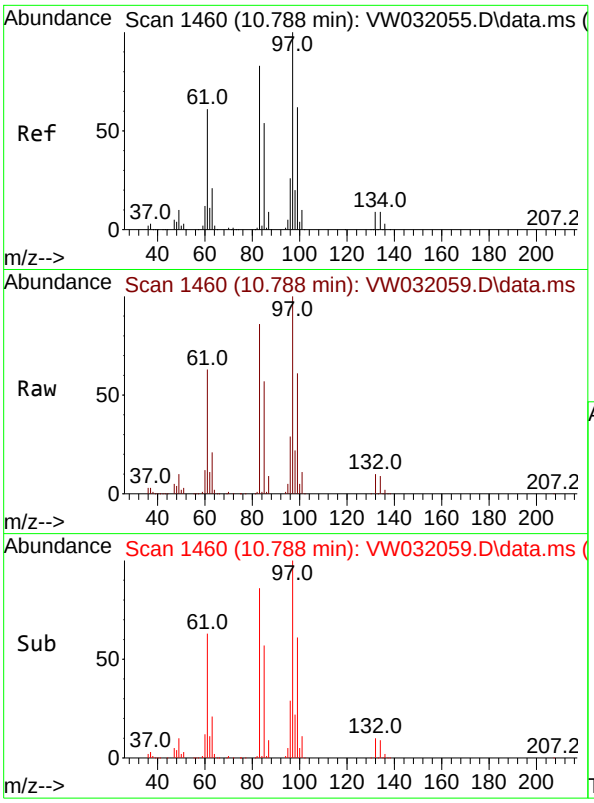




#54
cis-1,3-Dichloropropene
Concen: 52.577 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 75 Resp: 238970

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.2 | 24.0 | 36.0 |
| 39 | 45.4 | 37.8 | 56.8 |



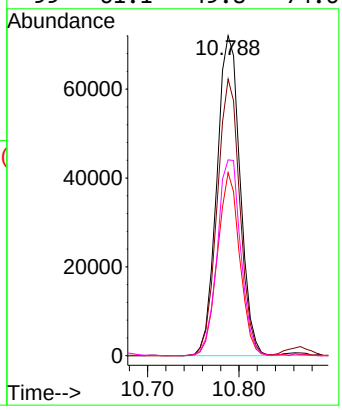


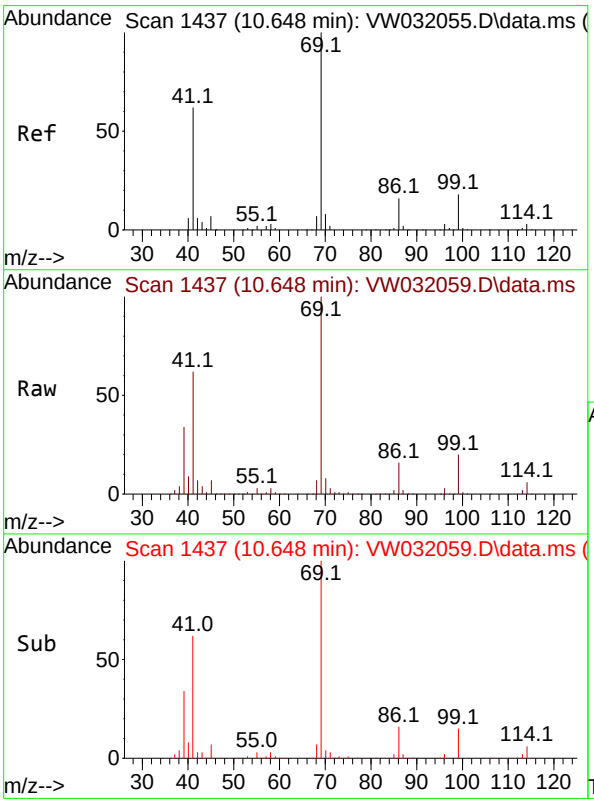

#55
1,1,2-Trichloroethane
Concen: 51.716 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion: 97 Resp: 127536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 86.4 | 66.4 | 99.6 |
| 85 | 57.2 | 43.1 | 64.7 |
| 99 | 61.1 | 49.8 | 74.6 |

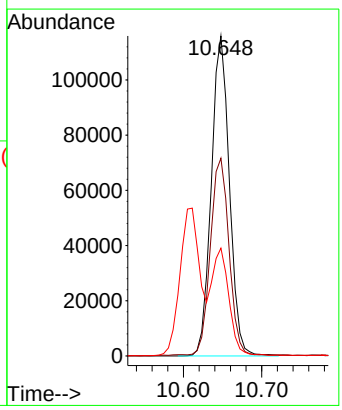


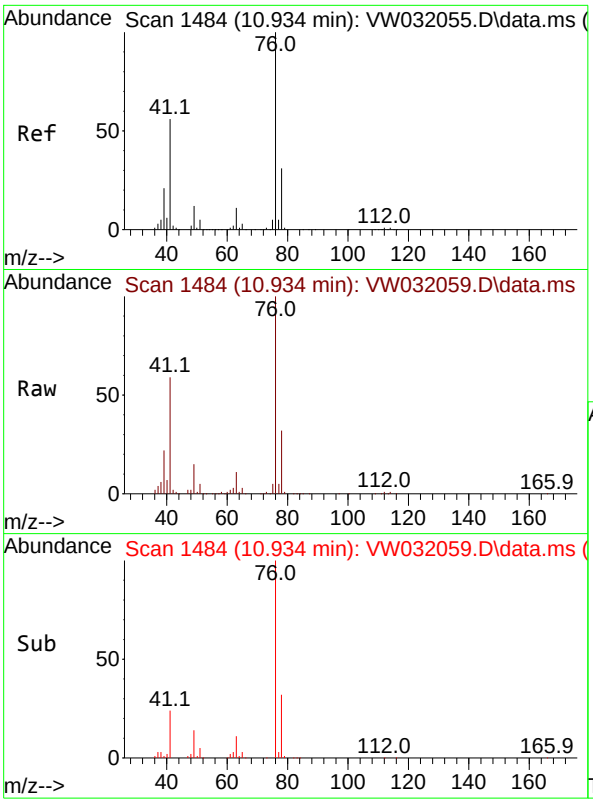




#56
Ethyl methacrylate
Concen: 56.374 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 69 Resp: 186039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 64.4 | 51.2 | 76.8 |
| 39 | 31.4 | 25.4 | 38.0 |



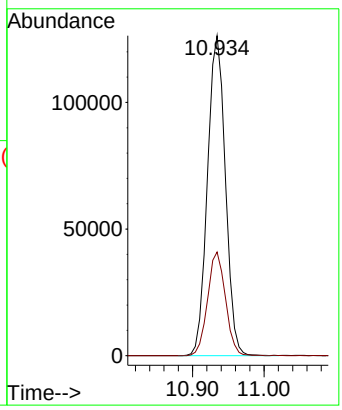


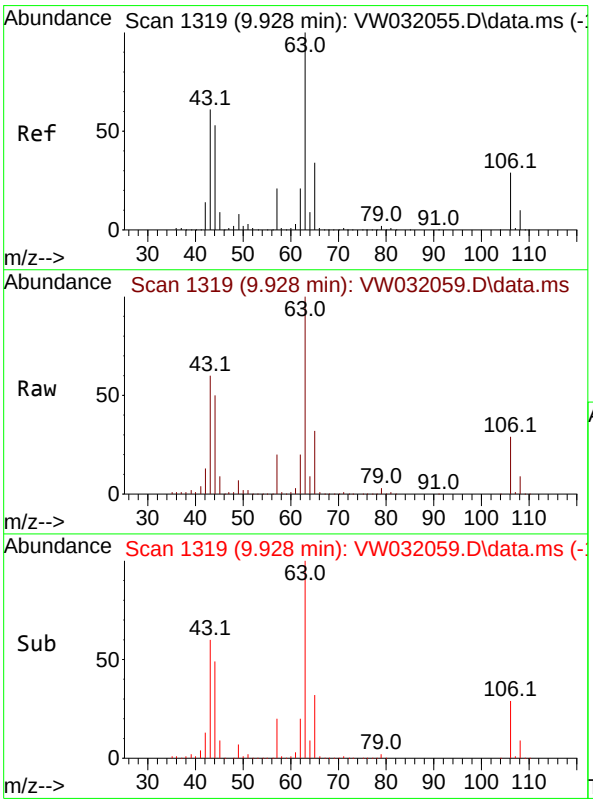

#57
1,3-Dichloropropane
Concen: 51.186 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion: 76 Resp: 220027

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.3 | 25.8 | 38.6 |

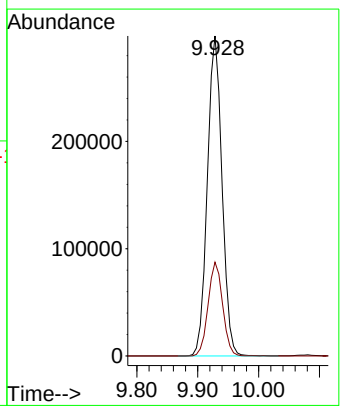


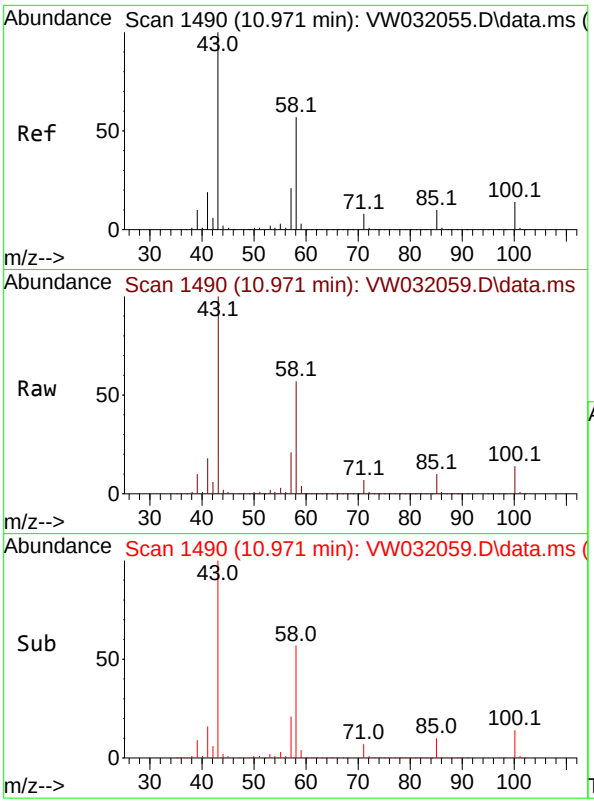




#58
2-Chloroethyl Vinyl ether
Concen: 272.893 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 63 Resp: 498131

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 29.0 | 23.5 | 35.3 |



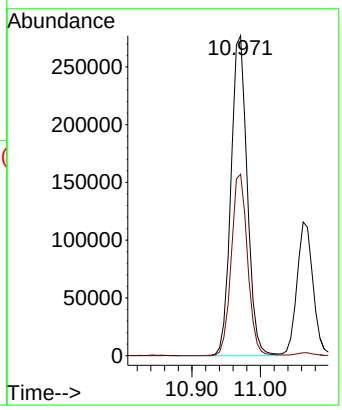


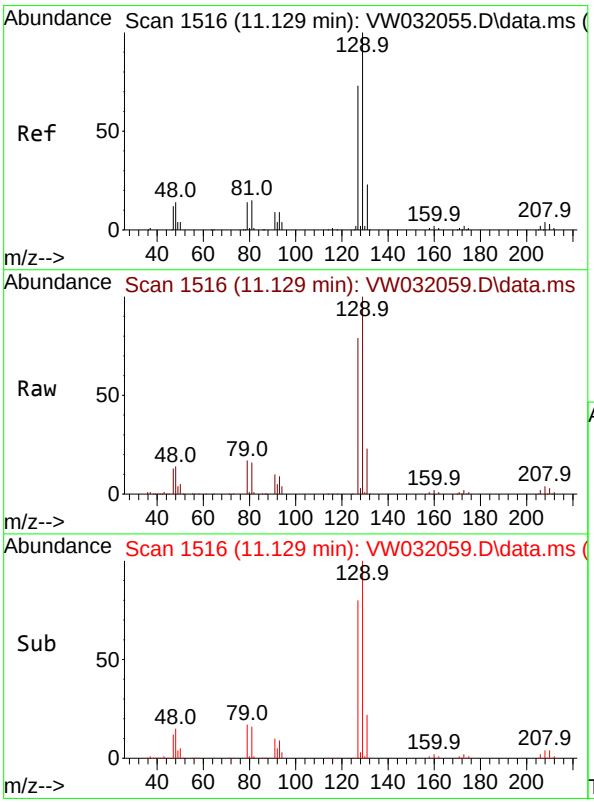

#59
2-Hexanone
Concen: 281.817 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion: 43 Resp: 457083

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 56.8 | 28.3 | 85.0 |

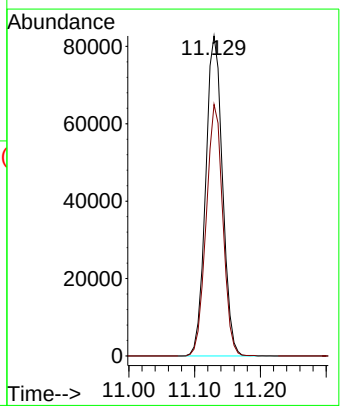


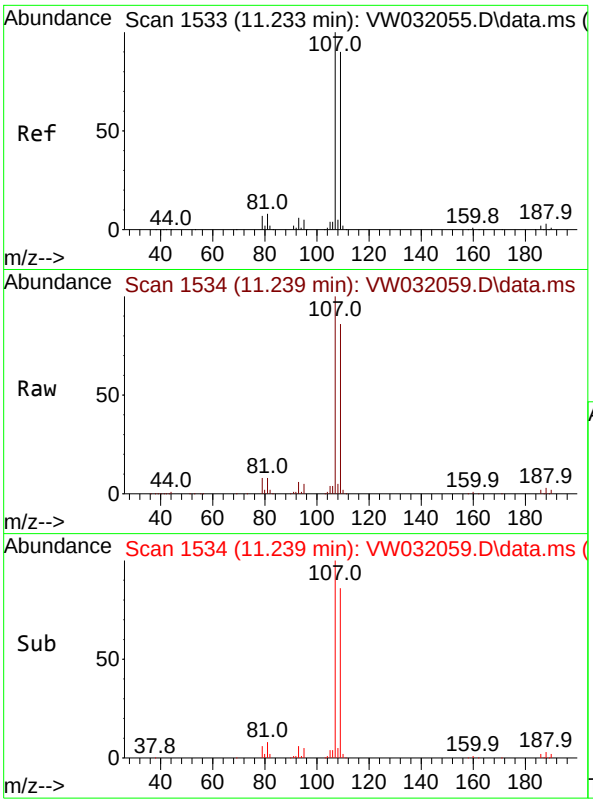




#60
Dibromochloromethane
Concen: 52.276 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:129 Resp: 147264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.5 | 39.0 | 116.9 |



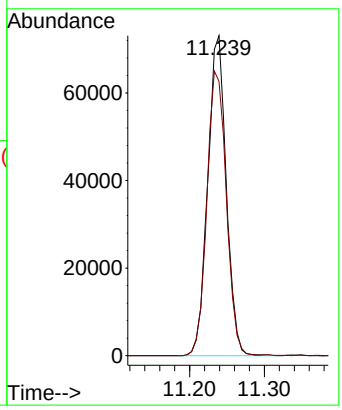


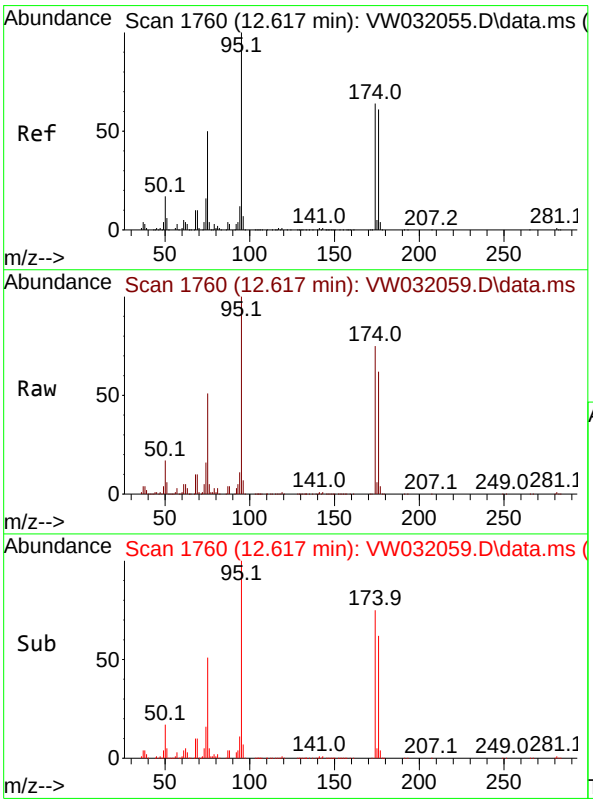

#61
1,2-Dibromoethane
Concen: 52.603 ug/l
RT: 11.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion:107 Resp: 126064

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.2 | 74.2 | 111.4 |

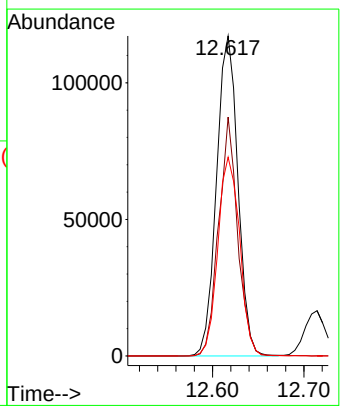


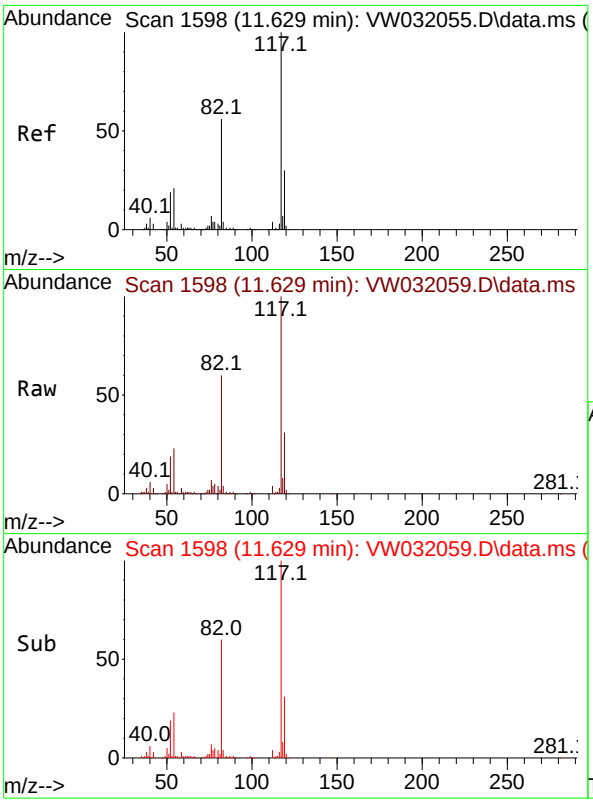




#62
4-Bromofluorobenzene
Concen: 51.460 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 95 Resp: 190514

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 66.7 | 0.0 | 129.0 |
| 176 | 63.5 | 0.0 | 124.6 |



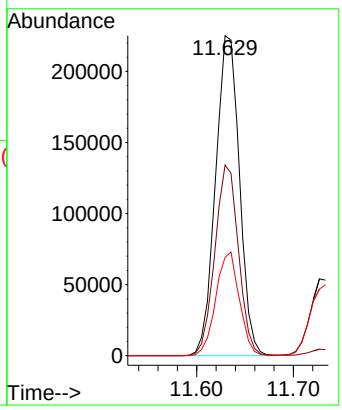


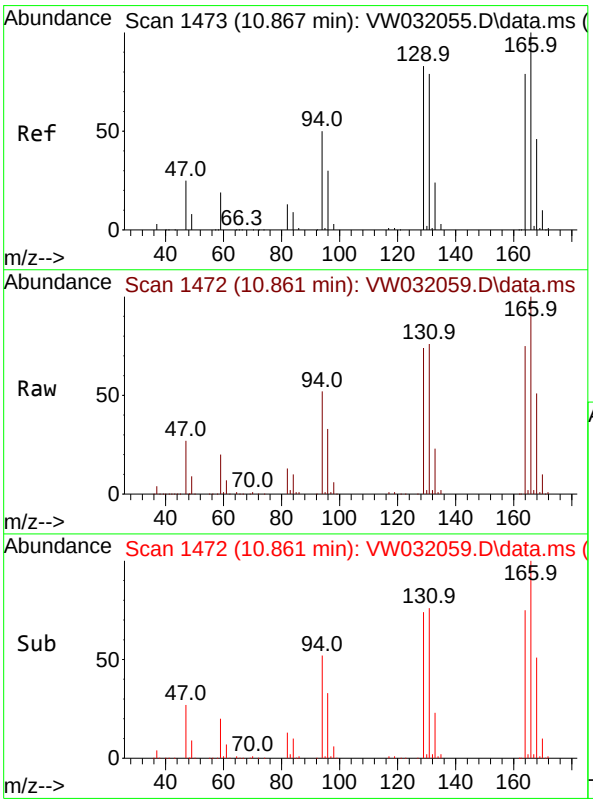

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion:117 Resp: 386856

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 59.5 | 45.0 | 67.4 |
| 119 | 30.7 | 24.2 | 36.4 |

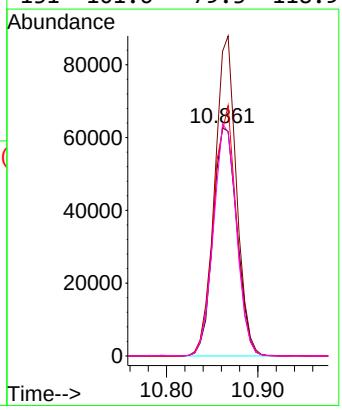


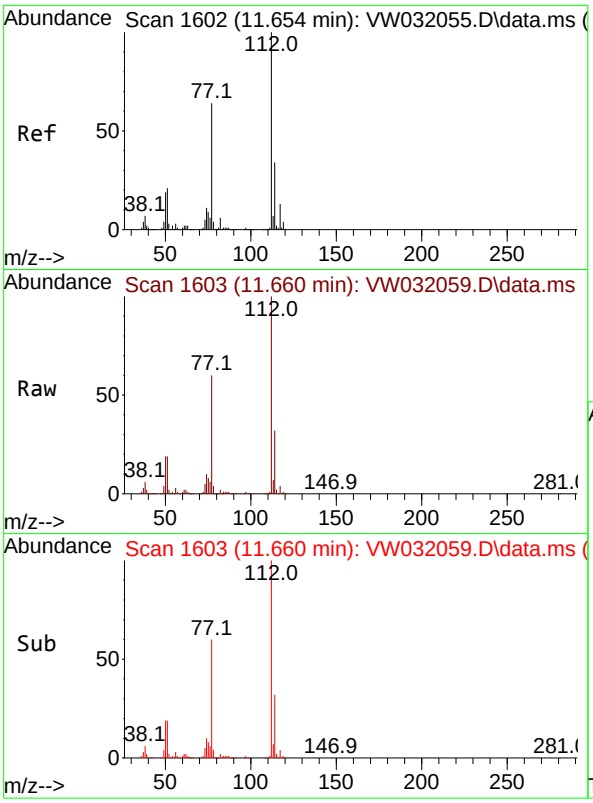




#64
Tetrachloroethene
Concen: 51.245 ug/l
RT: 10.861 min Scan# 1472
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:164 Resp: 114507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 133.3 | 100.9 | 151.3 |
| 129 | 98.7 | 83.6 | 125.4 |
| 131 | 101.6 | 79.3 | 118.9 |



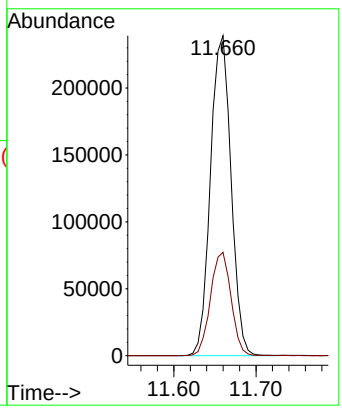


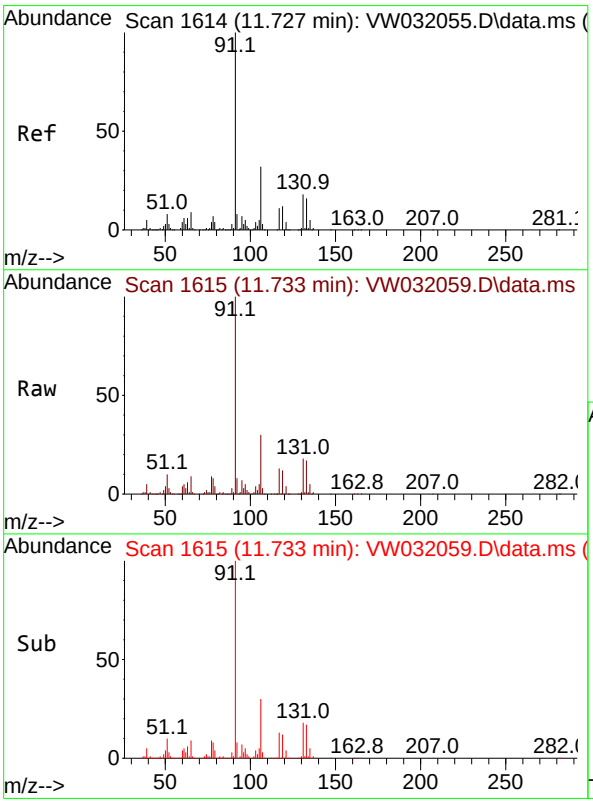

#65
Chlorobenzene
Concen: 49.461 ug/l
RT: 11.660 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion:112 Resp: 416485

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.3 | 26.9 | 40.3 |

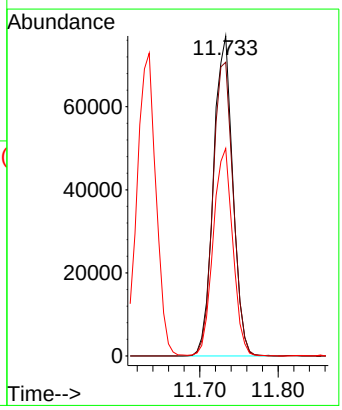


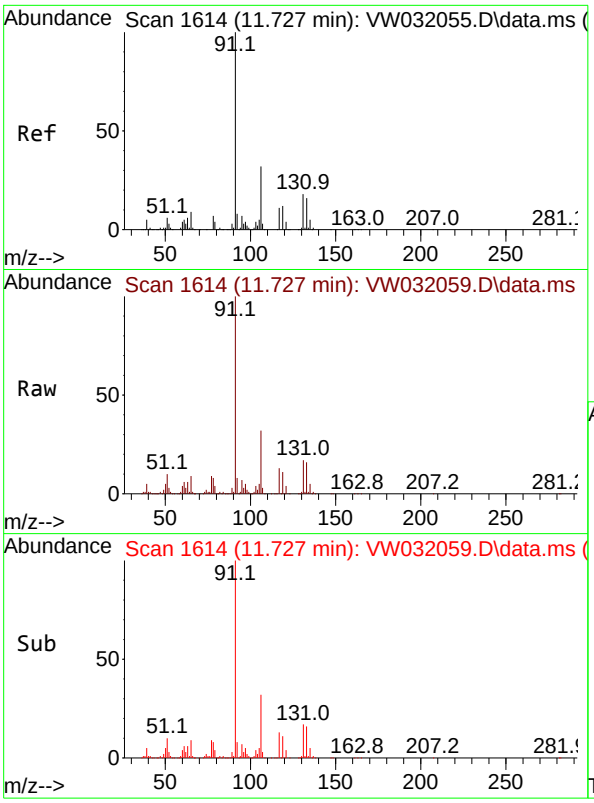




#66
1,1,1,2-Tetrachloroethane
Concen: 50.324 ug/l
RT: 11.733 min Scan# 1615
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:131 Resp: 132212

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.8 | 47.3 | 142.0 |
| 119 | 65.7 | 34.5 | 103.5 |



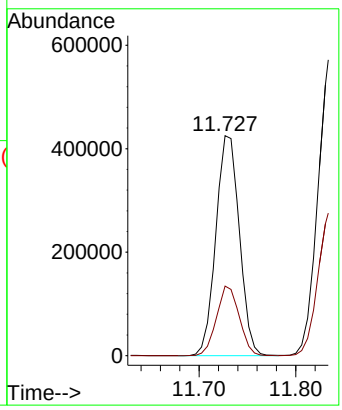


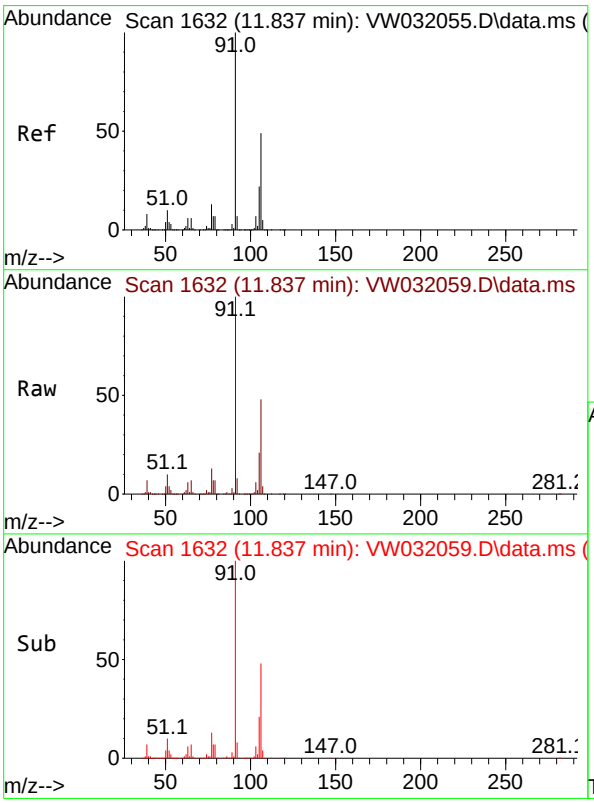

#67
Ethyl Benzene
Concen: 50.253 ug/l
RT: 11.727 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion: 91 Resp: 716757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.6 | 25.4 | 38.0 |

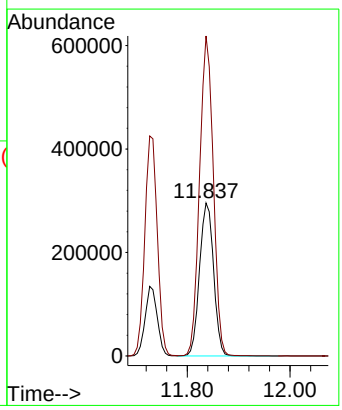


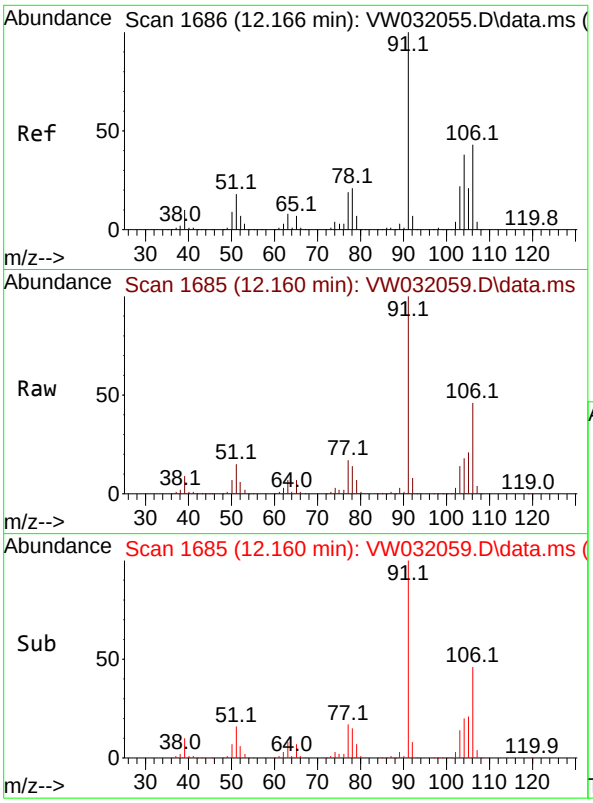




#68
m/p-Xylenes
Concen: 101.607 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:106 Resp: 559216

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 204.9 | 162.2 | 243.2 |



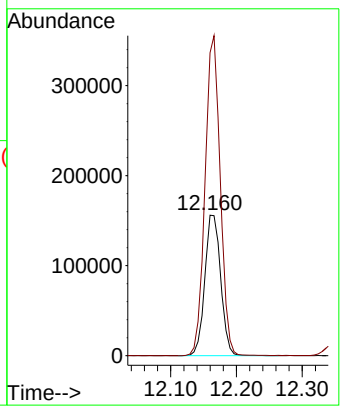


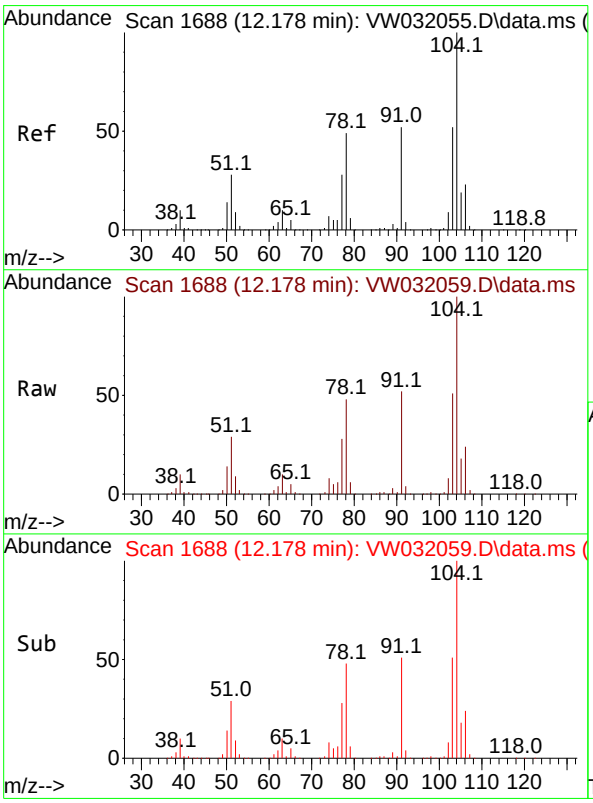

#69
o-Xylene
Concen: 51.416 ug/l
RT: 12.160 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion:106 Resp: 261548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 218.6 | 110.8 | 332.3 |

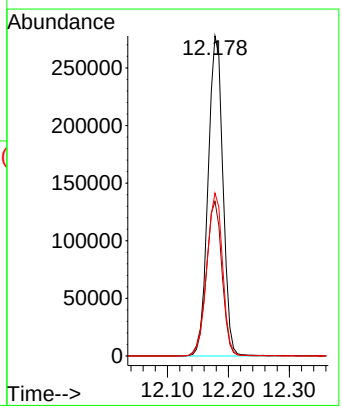


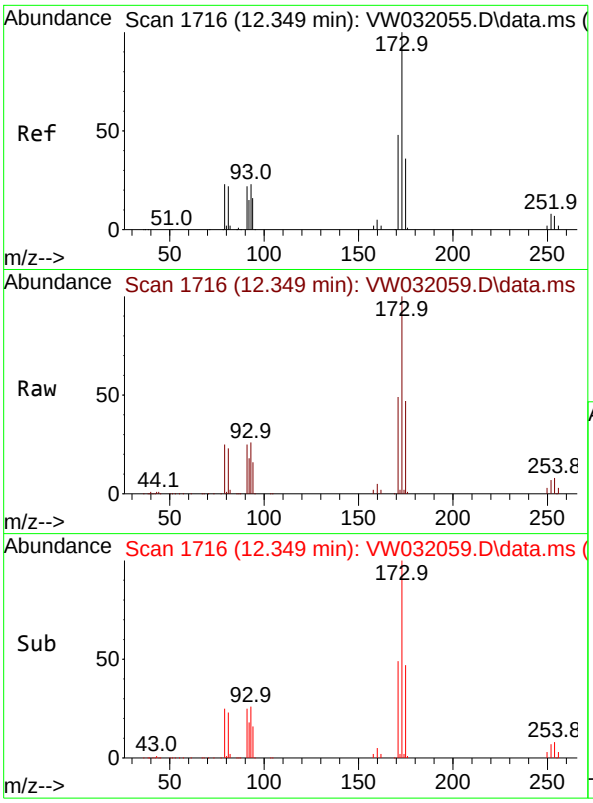




#70
Styrene
Concen: 51.833 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:104 Resp: 468335

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 51.2 | 41.2 | 61.8 |
| 103 | 53.9 | 43.8 | 65.8 |



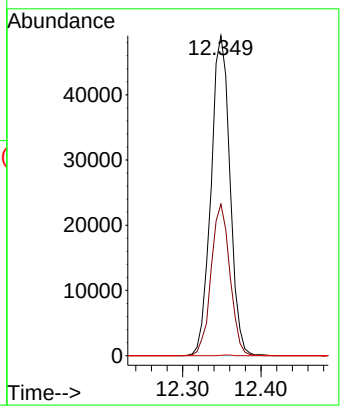


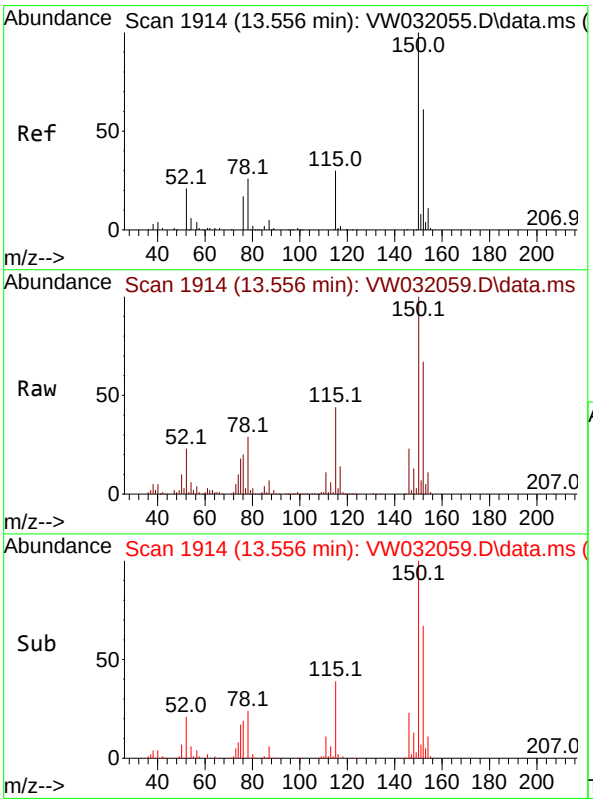

#71
Bromoform
Concen: 54.945 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion:173 Resp: 82571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 46.9 | 22.9 | 68.7 |
| 254 | 0.1 | 0.0 | 0.0# |

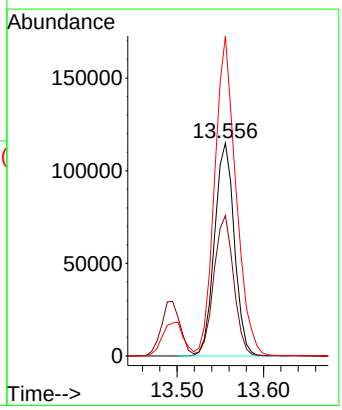


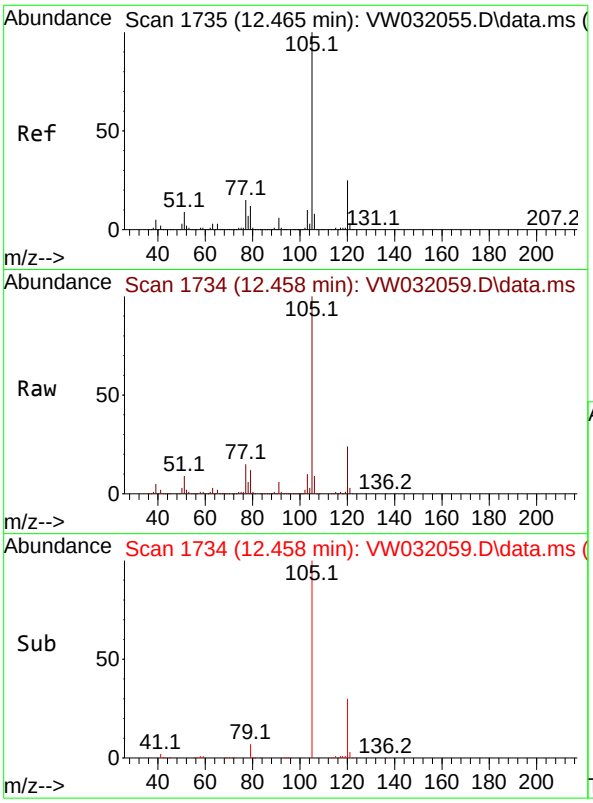




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:152 Resp: 182577

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 65.8 | 32.6 | 97.8 |
| 150 | 162.0 | 0.0 | 359.4 |



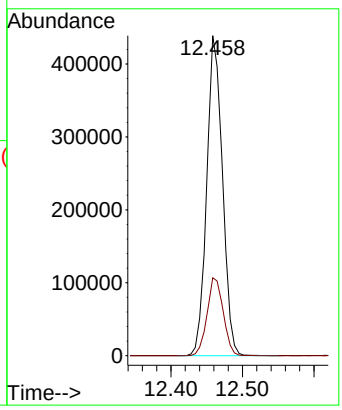


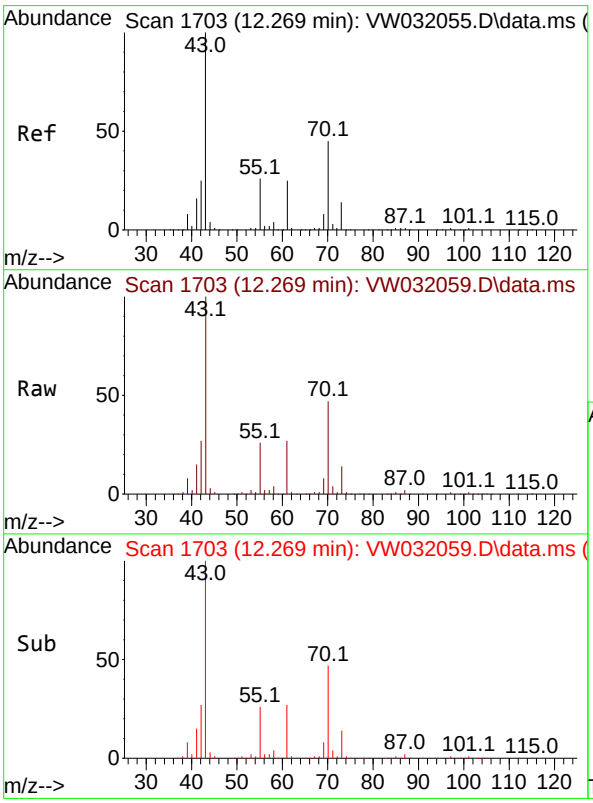

#73
Isopropylbenzene
Concen: 52.571 ug/l
RT: 12.458 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion:105 Resp: 670779

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.0 | 12.8 | 38.4 |

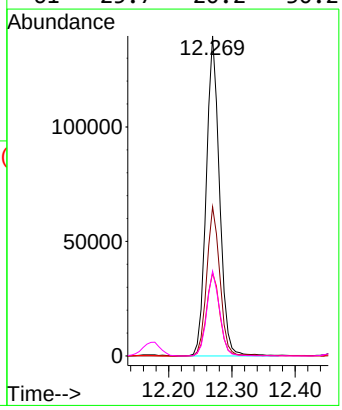


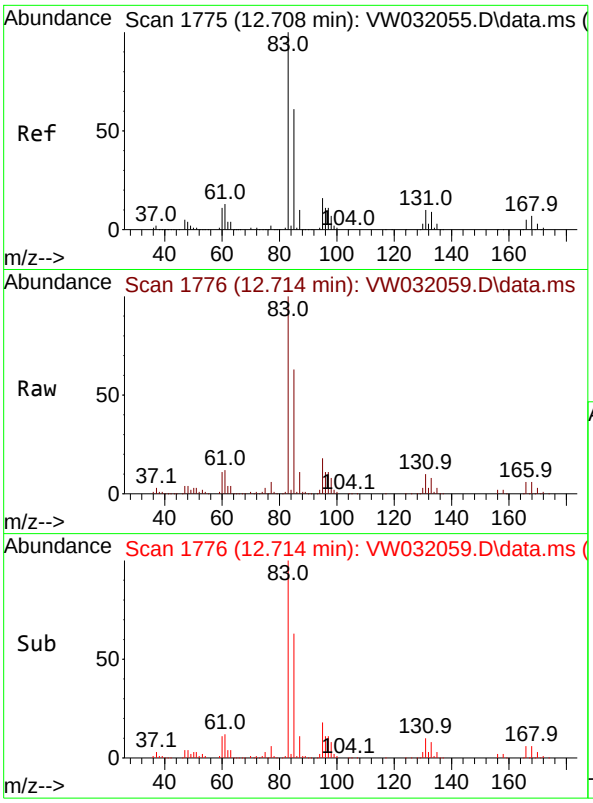




#74
N-amyl acetate
Concen: 55.682 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 43 Resp: 203837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 46.3 | 37.0 | 55.4 |
| 55 | 26.5 | 21.1 | 31.7 |
| 61 | 25.7 | 20.2 | 30.2 |



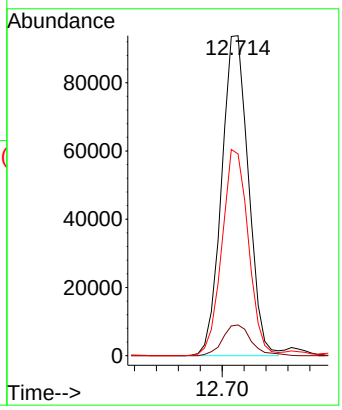


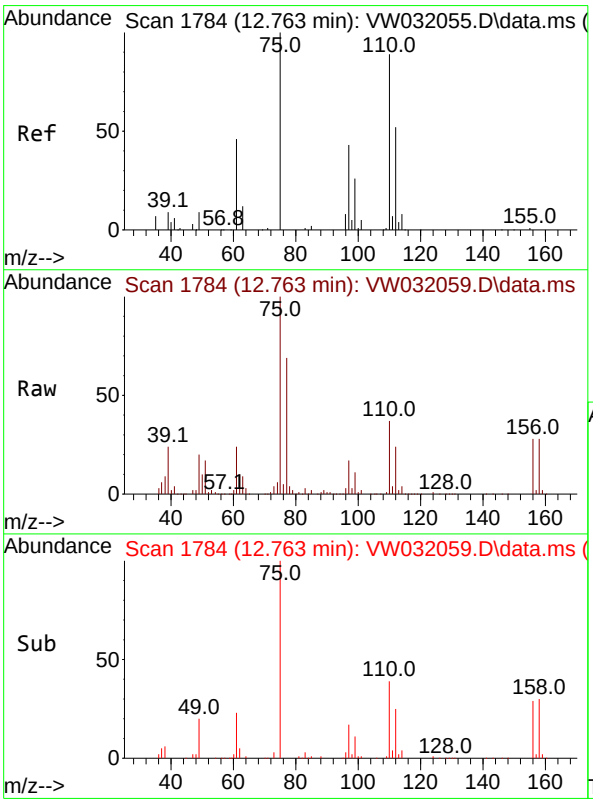

#75
1,1,2,2-Tetrachloroethane
Concen: 52.514 ug/l
RT: 12.714 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion: 83 Resp: 159092

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.2 | 5.1 | 15.4 |
| 85 | 63.5 | 32.2 | 96.6 |

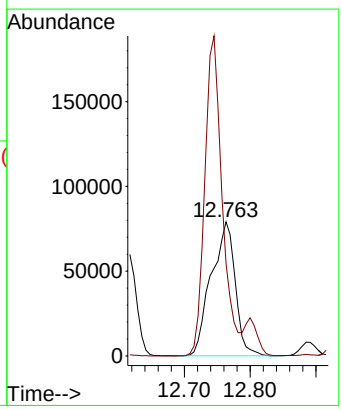


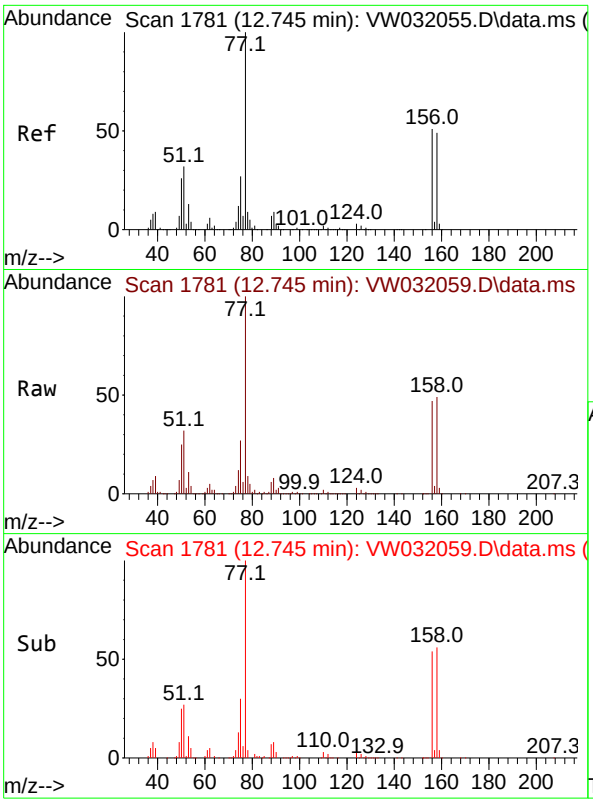




#76
1,2,3-Trichloropropane
Concen: 81.178 ug/l
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 75 Resp: 201159

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 174.4 | 123.5 | 370.5 |



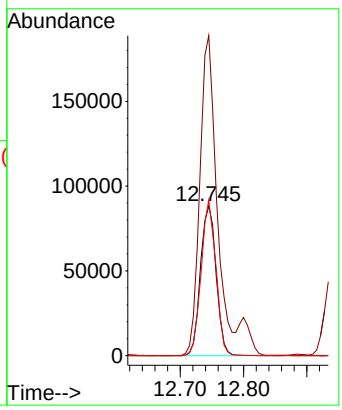


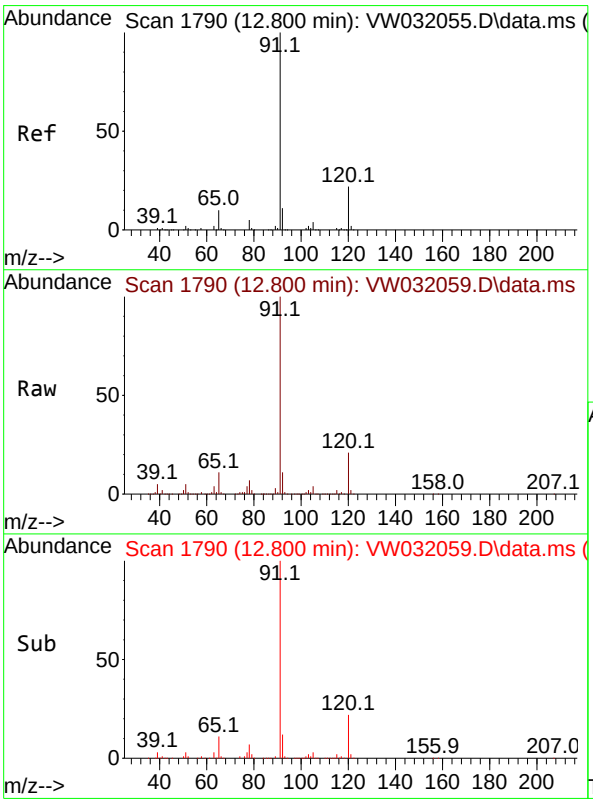

#77
Bromobenzene
Concen: 49.886 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion:156 Resp: 152028

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 230.8 | 108.7 | 326.3 |
| 158 | 98.3 | 48.3 | 144.9 |

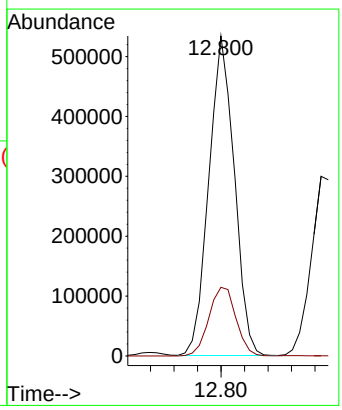


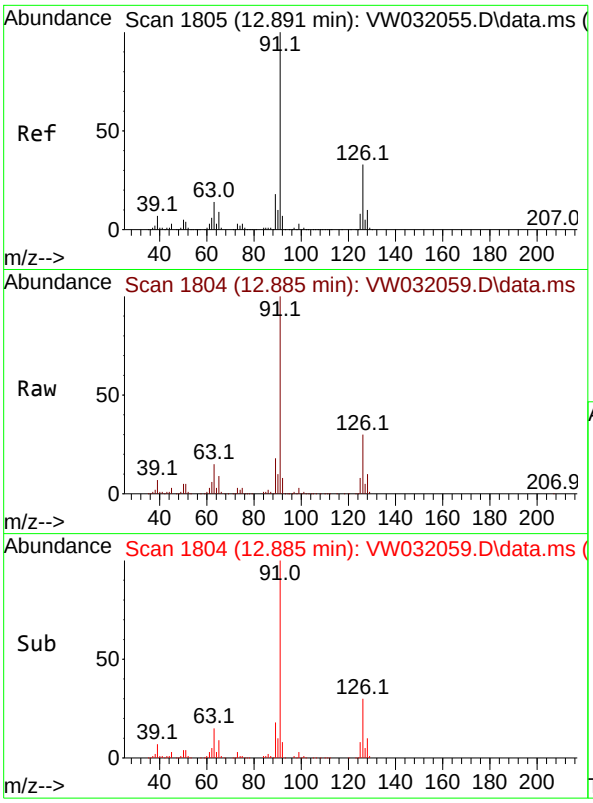




#78
n-propylbenzene
Concen: 51.148 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 91 Resp: 803474

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.9 | 11.1 | 33.3 |



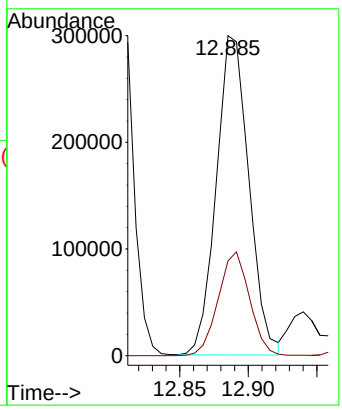


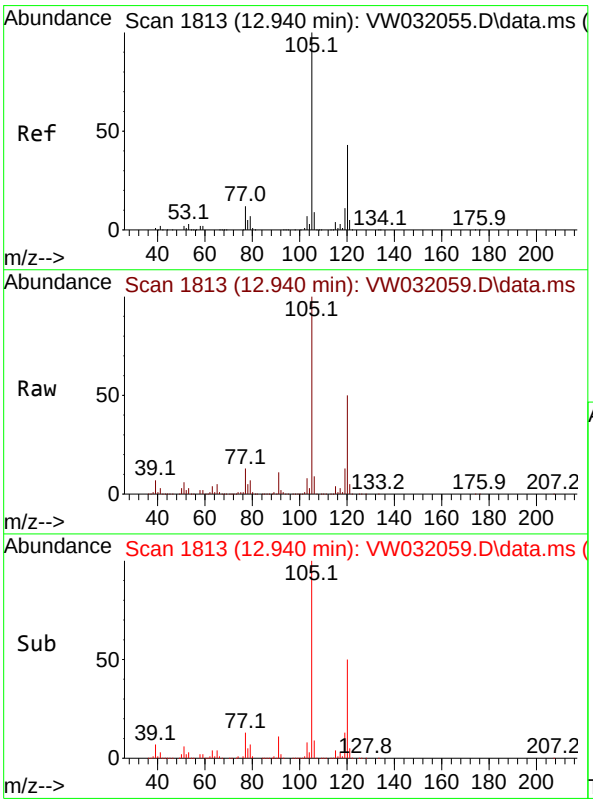

#79
2-Chlorotoluene
Concen: 51.114 ug/l
RT: 12.885 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion: 91 Resp: 495562

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.3 | 15.9 | 47.7 |

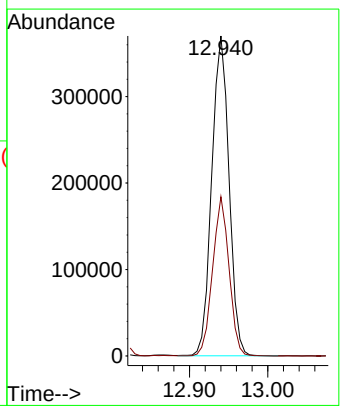


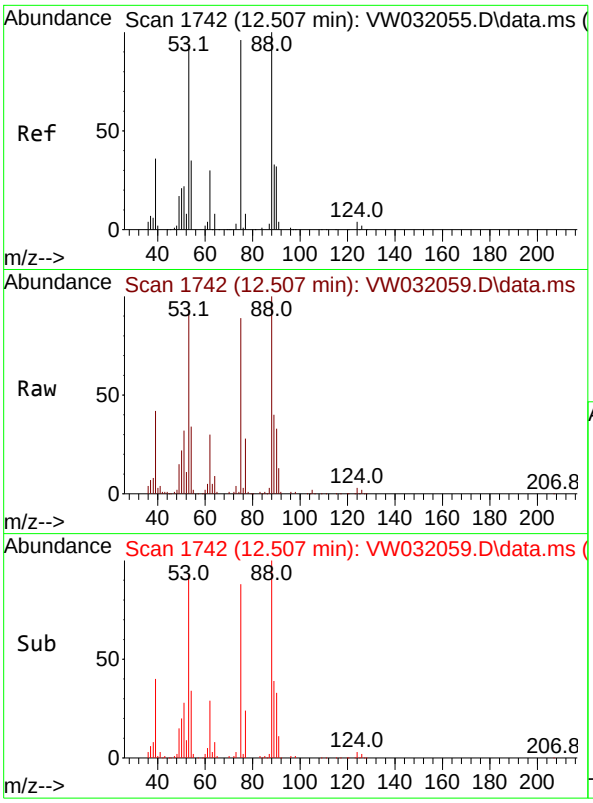




#80
1,3,5-Trimethylbenzene
Concen: 52.291 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:105 Resp: 566437

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.4 | 23.4 | 70.0 |



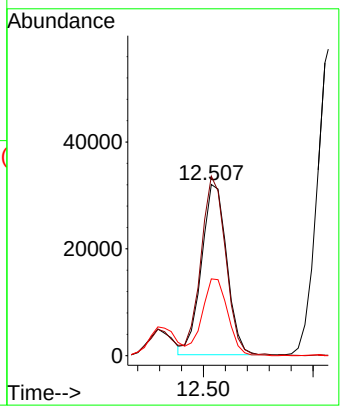


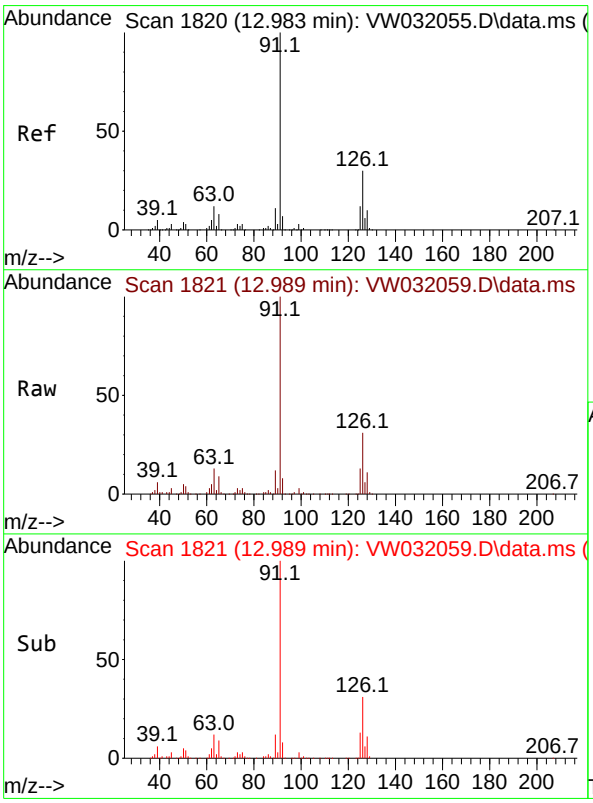

#81
trans-1,4-Dichloro-2-butene
Concen: 53.570 ug/l
RT: 12.507 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion: 75 Resp: 51275

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 104.4 | 81.0 | 121.6 |
| 89 | 45.7 | 37.3 | 55.9 |

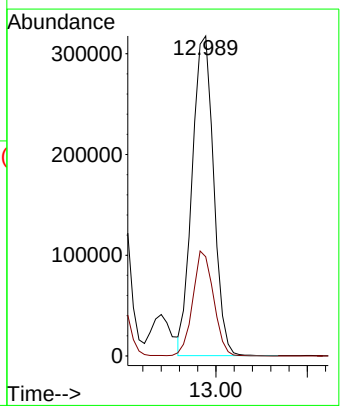


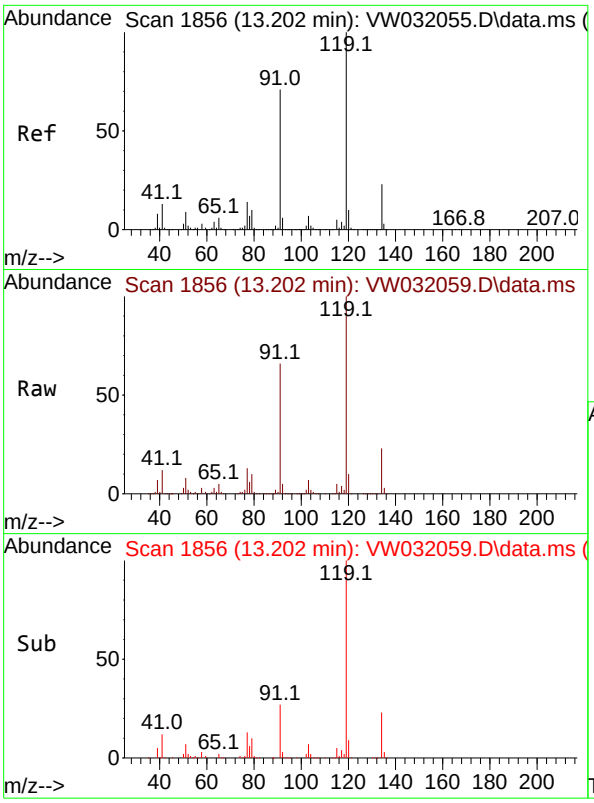




#82
4-Chlorotoluene
Concen: 50.312 ug/l
RT: 12.989 min Scan# 1821
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 91 Resp: 518248

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.7 | 15.5 | 46.5 |



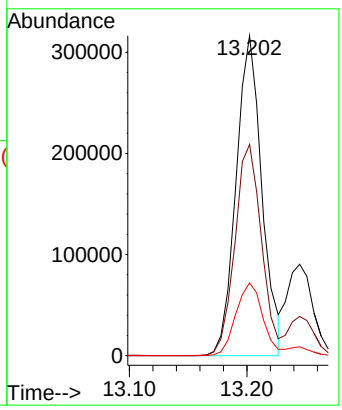


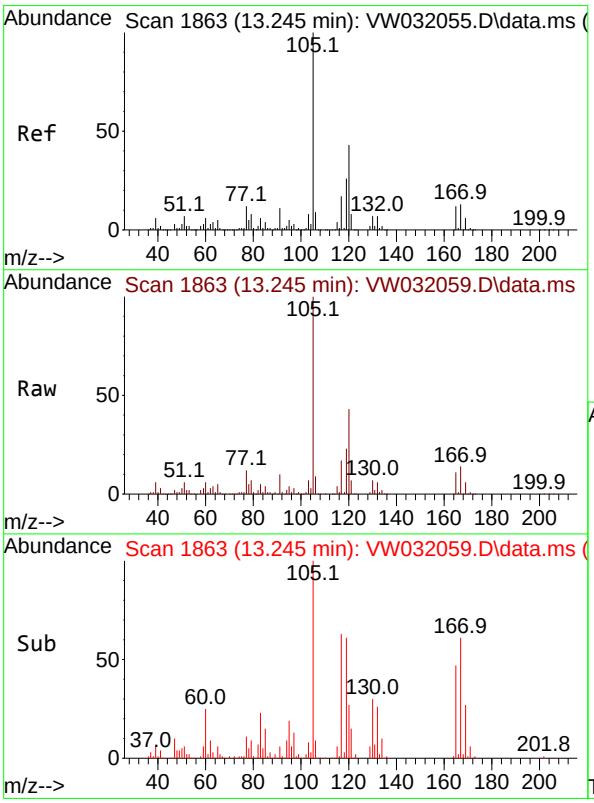

#83
tert-Butylbenzene
Concen: 53.777 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion:119 Resp: 483459

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 67.8 | 35.3 | 105.9 |
| 134 | 23.9 | 12.1 | 36.3 |

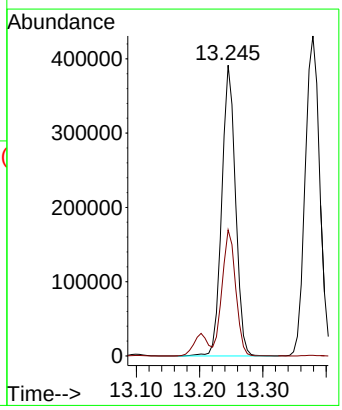


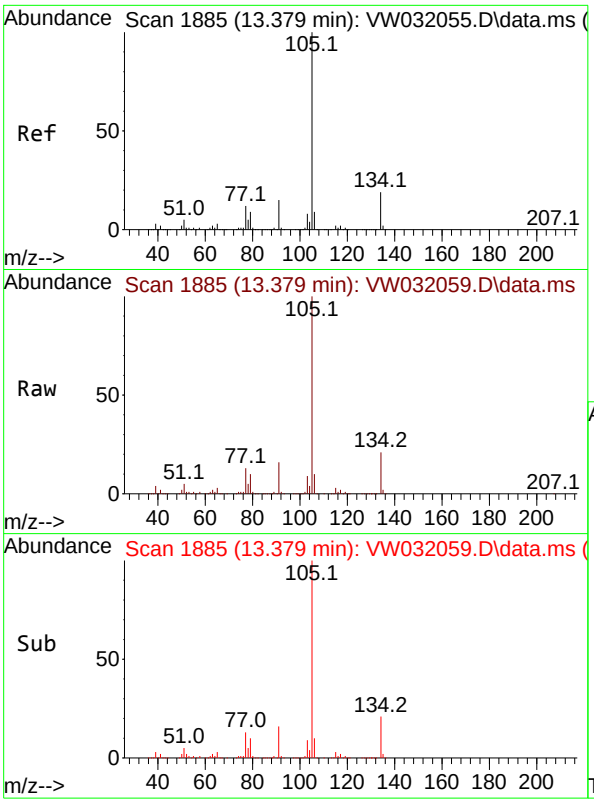




#84
1,2,4-Trimethylbenzene
Concen: 53.308 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:105 Resp: 587831

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 42.8 | 21.6 | 64.8 |



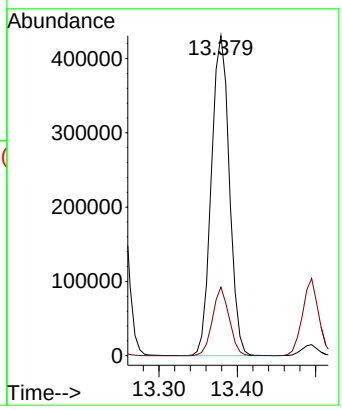


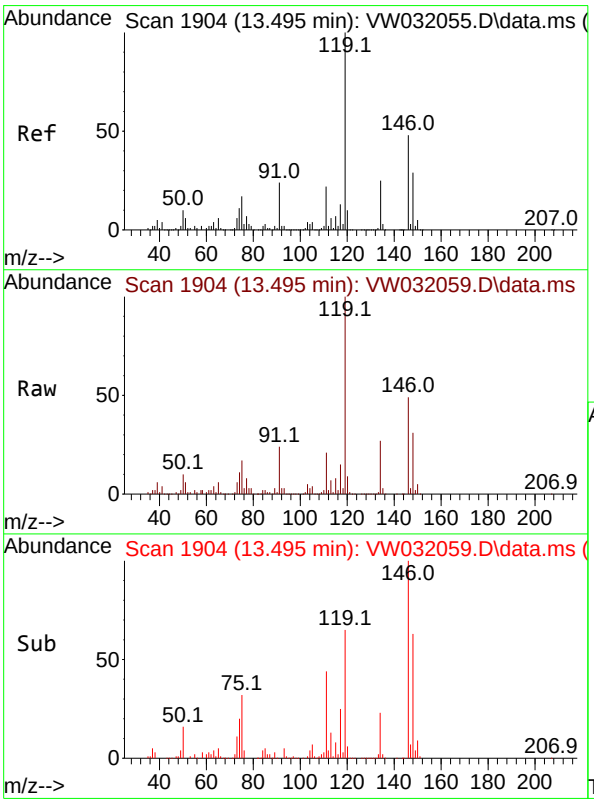

#85
sec-Butylbenzene
Concen: 50.571 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion:105 Resp: 687367

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.8 | 9.9 | 29.7 |

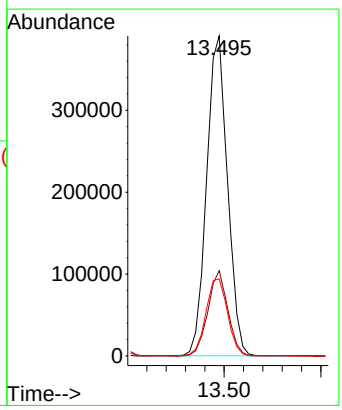


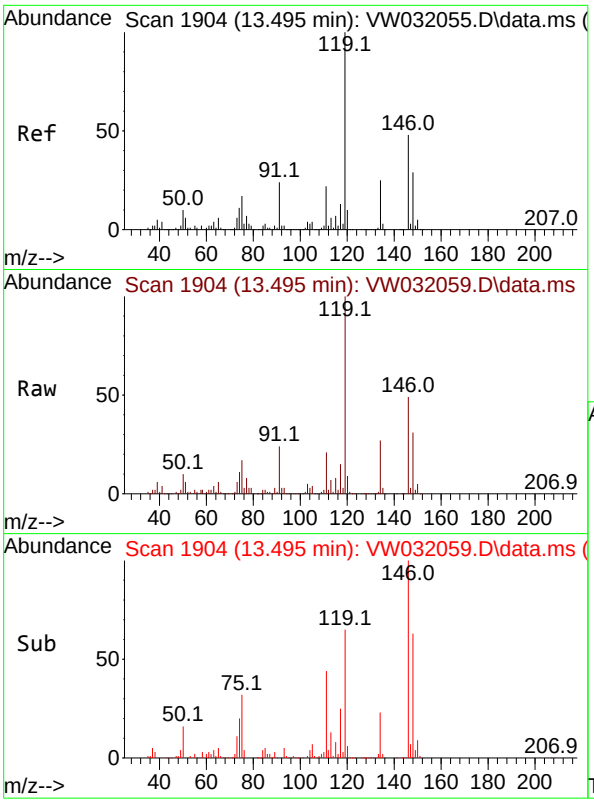




#86
p-Isopropyltoluene
Concen: 51.580 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:119 Resp: 584473

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.5 | 12.4 | 37.0 |
| 91 | 24.9 | 12.1 | 36.3 |



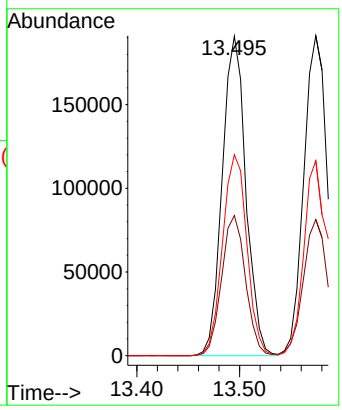


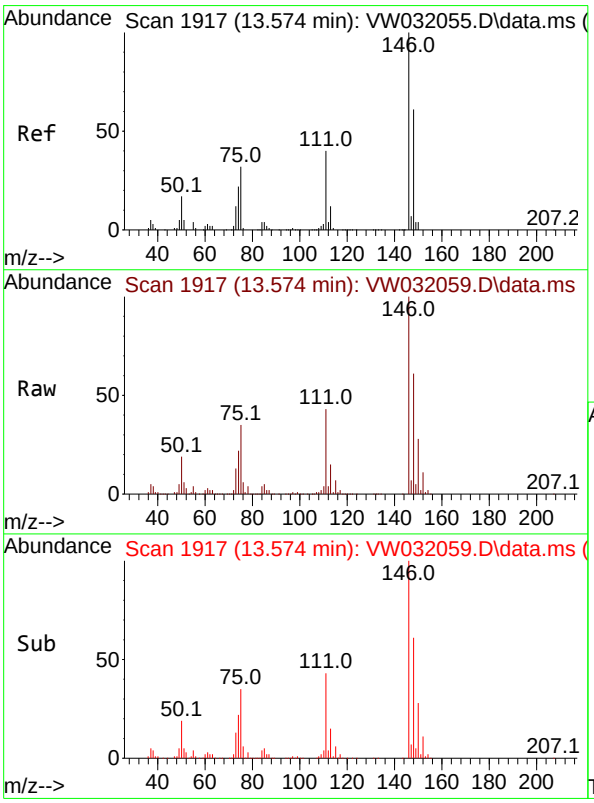

#87
1,3-Dichlorobenzene
Concen: 50.304 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion:146 Resp: 305044

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.3 | 21.2 | 63.6 |
| 148 | 64.8 | 30.3 | 90.8 |

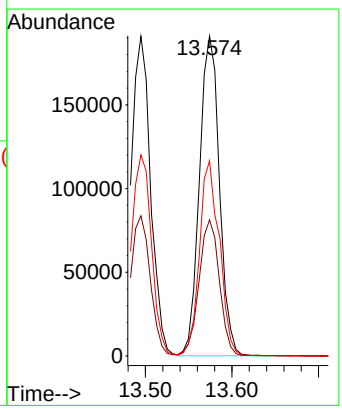


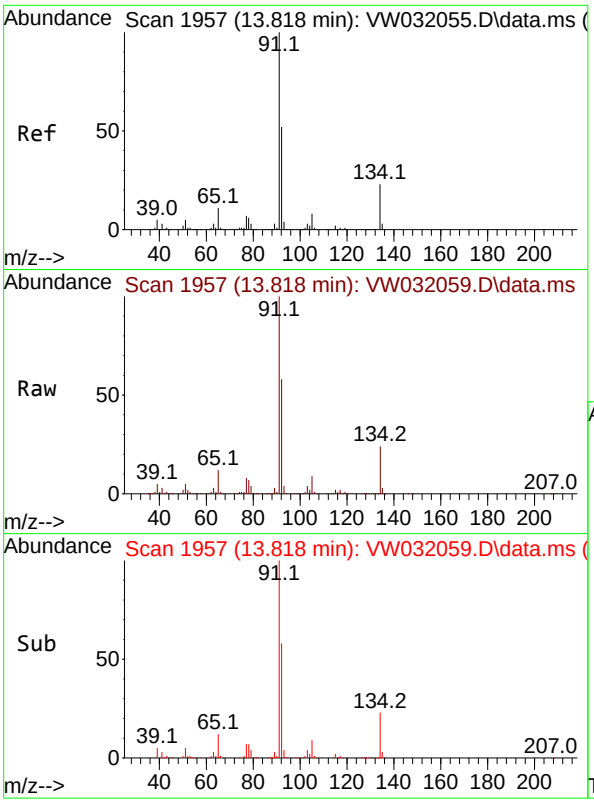




#88
1,4-Dichlorobenzene
Concen: 49.942 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:146 Resp: 306047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.7 | 21.6 | 64.6 |
| 148 | 60.9 | 32.0 | 96.2 |



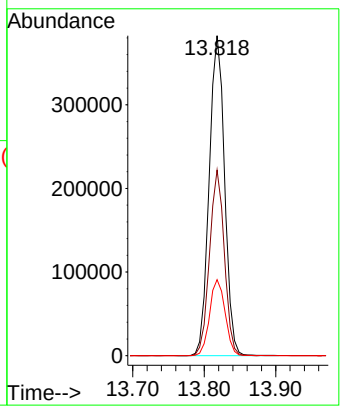


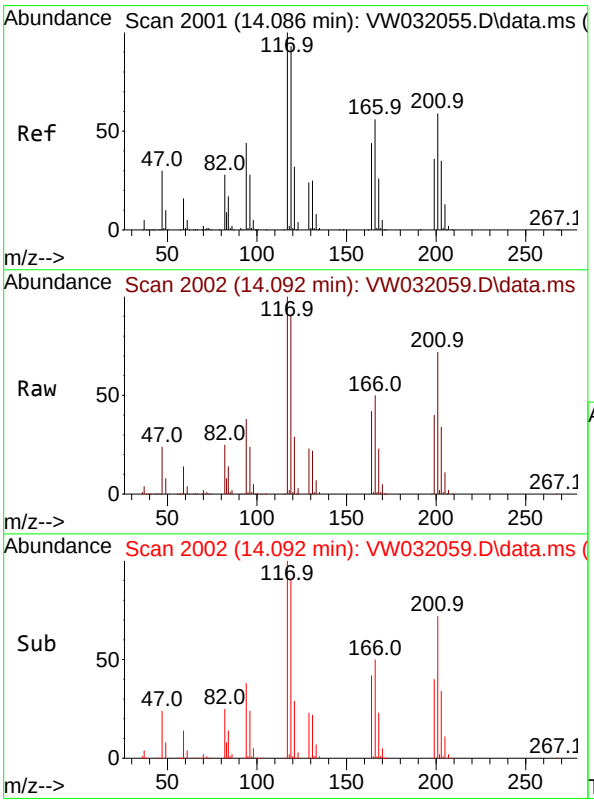

#89
n-Butylbenzene
Concen: 51.958 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion: 91 Resp: 571978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 55.7 | 26.7 | 80.1 |
| 134 | 23.9 | 12.0 | 36.1 |

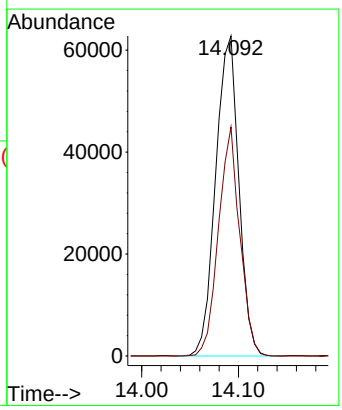


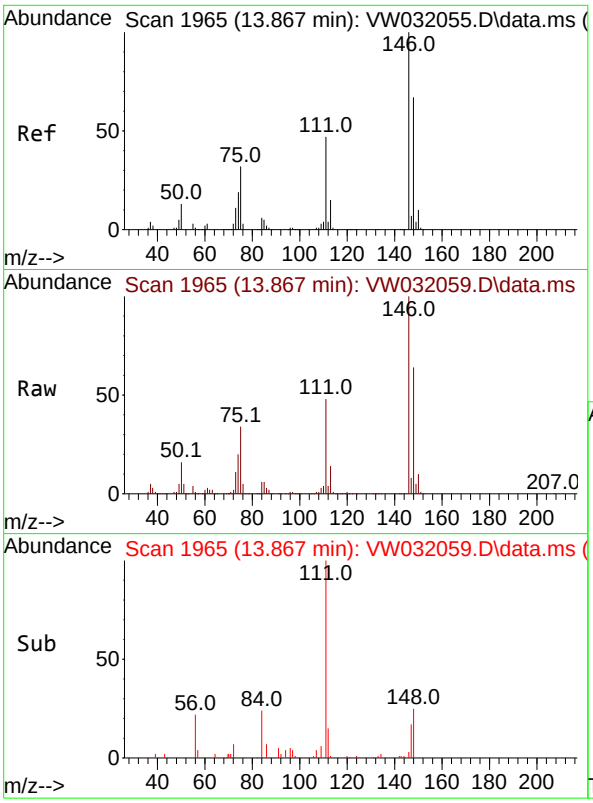




#90
Hexachloroethane
Concen: 50.329 ug/l
RT: 14.092 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:117 Resp: 104295

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 65.9 | 30.9 | 92.5 |



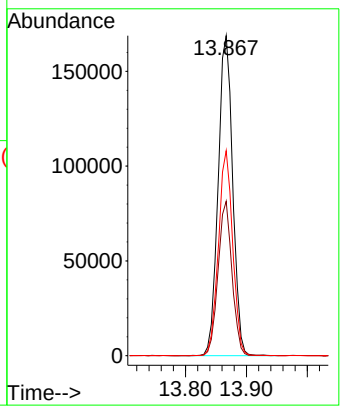


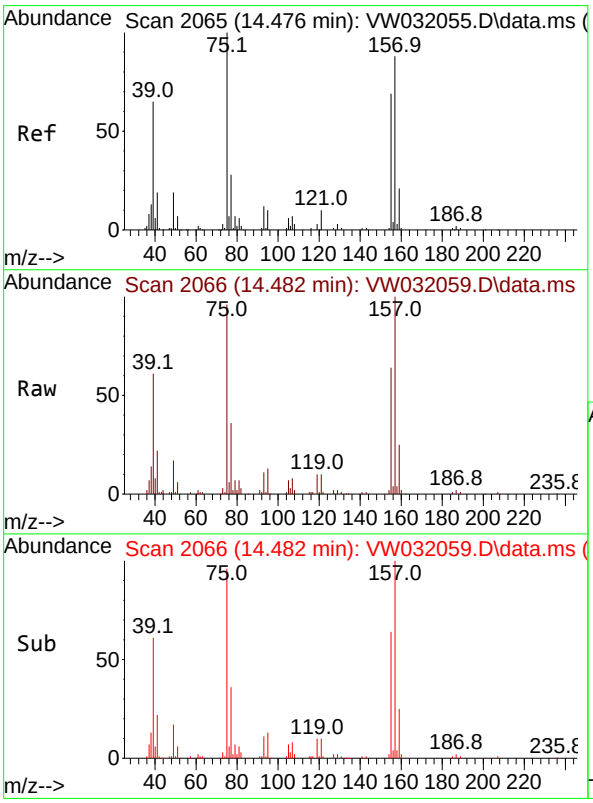

#91
1,2-Dichlorobenzene
Concen: 50.926 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion:146 Resp: 279745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 46.4 | 23.1 | 69.3 |
| 148 | 63.0 | 32.9 | 98.6 |

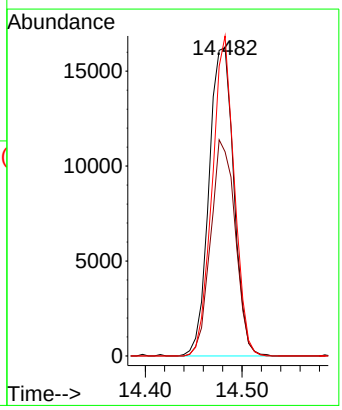


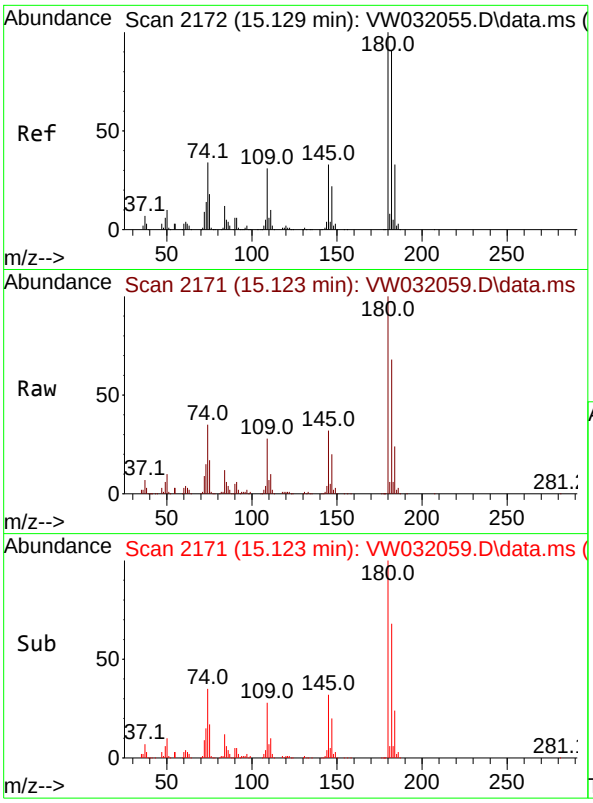




#92
1,2-Dibromo-3-Chloropropane
Concen: 53.872 ug/l
RT: 14.482 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion: 75 Resp: 29014

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 69.2 | 35.2 | 105.6 |
| 157 | 92.2 | 47.5 | 142.6 |



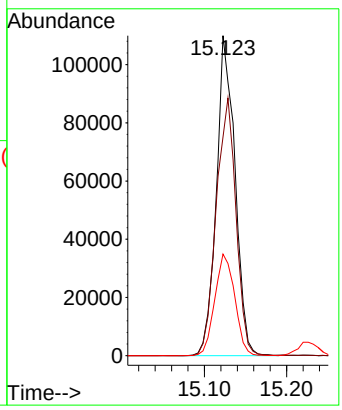


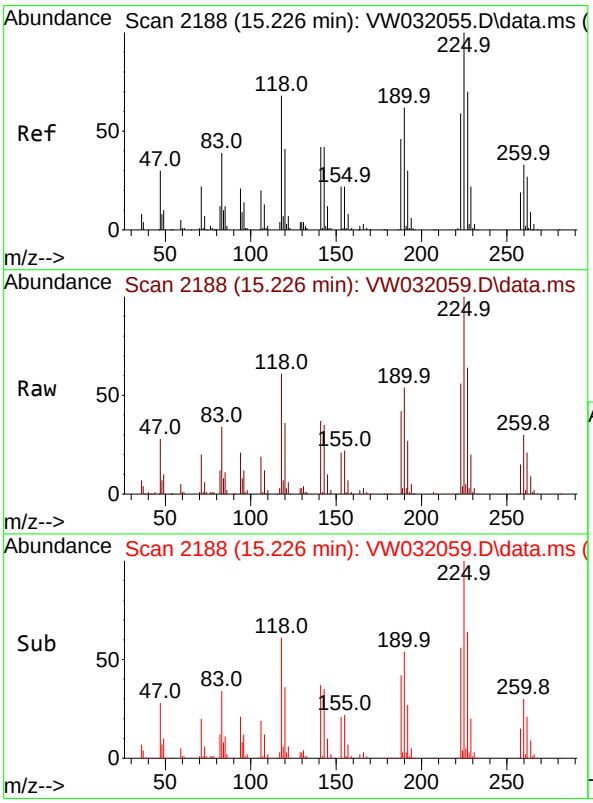

#93
1,2,4-Trichlorobenzene
Concen: 52.764 ug/l
RT: 15.123 min Scan# 21
Delta R.T. -0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion:180 Resp: 173386

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 85.4 | 49.0 | 147.0 |
| 145 | 34.1 | 17.3 | 51.9 |

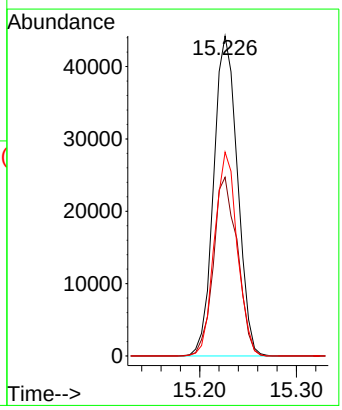


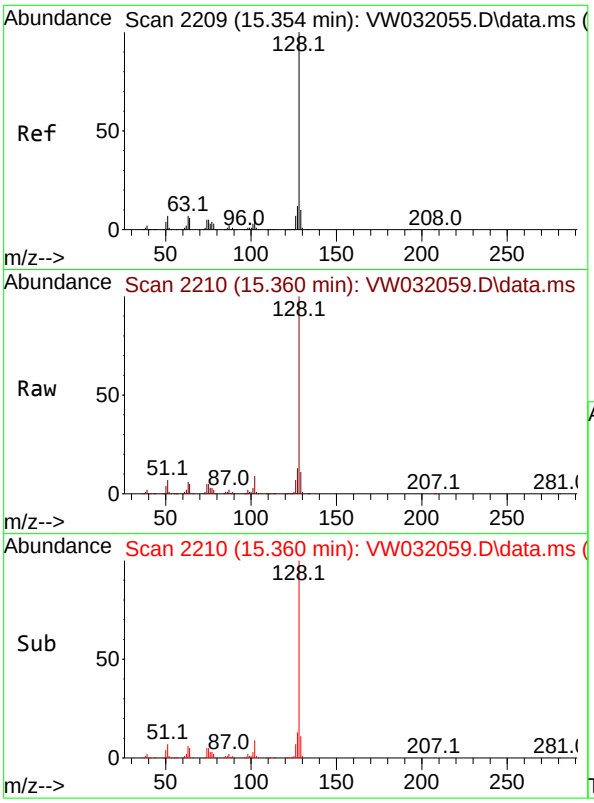




#94
Hexachlorobutadiene
Concen: 51.262 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:225 Resp: 75299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 56.5 | 31.8 | 95.3 |
| 227 | 61.3 | 33.5 | 100.5 |



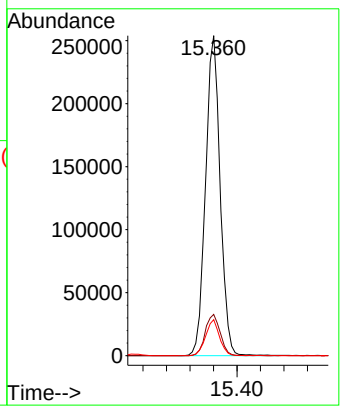


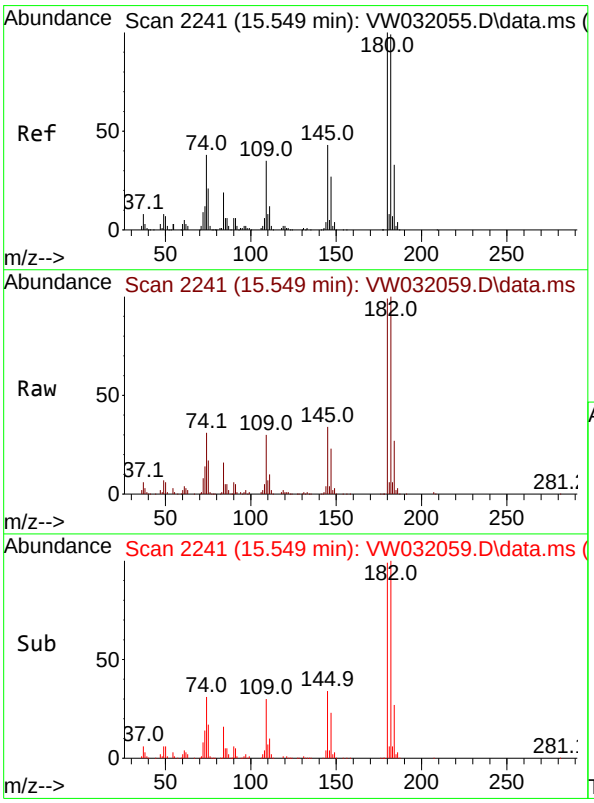

#95
Naphthalene
Concen: 54.415 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

**Instrument :**
MSVOA_W
**ClientSampleId :**
ICVVW081125

Tgt Ion:128 Resp: 438139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.2 | 10.5 | 15.7 |
| 129 | 10.7 | 8.2 | 12.4 |

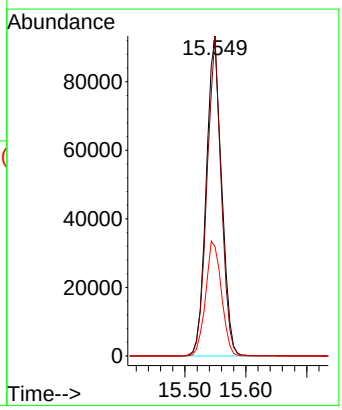



#96
1,2,3-Trichlorobenzene
Concen: 54.327 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. -0.000 min
Lab File: VW032059.D
Acq: 11 Aug 2025 11:51

Tgt Ion:180 Resp: 162431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.5 | 46.0 | 138.0 |
| 145 | 37.1 | 19.2 | 57.6 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032061.D
Acq On : 11 Aug 2025 12:48
Operator : SY/MD
Sample : VW0811SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Quant Time: Aug 12 04:23:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.959 | 168 | 224181 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.849 | 114 | 427747 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.629 | 117 | 394820 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.556 | 152 | 191594 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.319 | 65 | 164557 | 50.753 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 63 - 155 | | Recovery = 101.500% | | | |
| 35) Dibromofluoromethane | 7.898 | 113 | 135084 | 48.883 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 70 - 134 | | Recovery = 97.760% | | | |
| 50) Toluene-d8 | 10.325 | 98 | 508647 | 49.765 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 123 | | Recovery = 99.520% | | | |
| 62) 4-Bromofluorobenzene | 12.617 | 95 | 197267 | 52.373 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 17 - 146 | | Recovery = 104.740% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.046 | 85 | 34210 | 21.336 | ug/l | 99 |
| 3) Chloromethane | 2.253 | 50 | 44827 | 20.755 | ug/l | 100 |
| 4) Vinyl Chloride | 2.405 | 62 | 55119 | 21.098 | ug/l | 96 |
| 5) Bromomethane | 2.814 | 94 | 42172 | 21.516 | ug/l | 100 |
| 6) Chloroethane | 2.972 | 64 | 36005 | 20.827 | ug/l | 93 |
| 7) Trichlorofluoromethane | 3.302 | 101 | 36824 | 17.595 | ug/l | 97 |
| 8) Diethyl Ether | 3.716 | 74 | 36836 | 21.483 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 4.094 | 101 | 49645 | 20.107 | ug/l | 99 |
| 10) Methyl Iodide | 4.301 | 142 | 76912 | 21.970 | ug/l | 99 |
| 11) Tert butyl alcohol | 5.222 | 59 | 21680 | 103.263 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 4.076 | 96 | 55559 | 20.435 | ug/l | 98 |
| 13) Acrolein | 3.923 | 56 | 37149 | 111.050 | ug/l | 100 |
| 14) Allyl chloride | 4.704 | 41 | 84834 | 21.439 | ug/l | 100 |
| 15) Acrylonitrile | 5.399 | 53 | 86103 | 105.428 | ug/l | 99 |
| 16) Acetone | 4.155 | 43 | 86915 | 115.783 | ug/l | 99 |
| 17) Carbon Disulfide | 4.417 | 76 | 147760 | 20.248 | ug/l | 97 |
| 18) Methyl Acetate | 4.704 | 43 | 51464 | 21.665 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.454 | 73 | 104973 | 21.914 | ug/l | 99 |
| 20) Methylene Chloride | 4.948 | 84 | 74303 | 21.408 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 5.454 | 96 | 59717 | 20.698 | ug/l | 96 |
| 22) Diisopropyl ether | 6.338 | 45 | 180946 | 21.692 | ug/l | 98 |
| 23) Vinyl Acetate | 6.283 | 43 | 585943 | 106.987 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 6.240 | 63 | 111769 | 20.971 | ug/l | 97 |
| 25) 2-Butanone | 7.191 | 43 | 119059 | 111.594 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 7.185 | 77 | 55490 | 20.753 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 7.191 | 96 | 71568 | 21.221 | ug/l | 97 |
| 28) Bromochloromethane | 7.526 | 49 | 49722 | 20.501 | ug/l | 100 |
| 29) Tetrahydrofuran | 7.551 | 42 | 75818 | 107.756 | ug/l | 100 |
| 30) Chloroform | 7.691 | 83 | 119431 | 21.137 | ug/l | 99 |
| 31) Cyclohexane | 7.965 | 56 | 92372 | 19.992 | ug/l | 96 |
| 32) 1,1,1-Trichloroethane | 7.880 | 97 | 84982 | 20.707 | ug/l | 97 |
| 36) 1,1-Dichloropropene | 8.093 | 75 | 78541 | 20.161 | ug/l | 99 |
| 37) Ethyl Acetate | 7.270 | 43 | 48130 | 20.977 | ug/l | 99 |
| 38) Carbon Tetrachloride | 8.081 | 117 | 75079 | 19.971 | ug/l | 92 |
| 39) Methylcyclohexane | 9.343 | 83 | 94968 | 20.000 | ug/l | 93 |
| 40) Benzene | 8.337 | 78 | 254209 | 20.993 | ug/l | 98 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032061.D
Acq On : 11 Aug 2025 12:48
Operator : SY/MD
Sample : VW0811SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Quant Time: Aug 12 04:23:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.502 | 41 | 28577 | 21.963 | ug/l | | 98 |
| 42) 1,2-Dichloroethane | 8.410 | 62 | 81049 | 20.917 | ug/l | | 98 |
| 43) Isopropyl Acetate | 8.435 | 43 | 86573 | 20.509 | ug/l | | 99 |
| 44) Trichloroethene | 9.099 | 130 | 58362 | 20.238 | ug/l | | 99 |
| 45) 1,2-Dichloropropane | 9.374 | 63 | 61430 | 20.998 | ug/l | | 100 |
| 46) Dibromomethane | 9.465 | 93 | 38496 | 20.389 | ug/l | | 97 |
| 47) Bromodichloromethane | 9.648 | 83 | 88565 | 20.356 | ug/l | | 96 |
| 48) Methyl methacrylate | 9.441 | 41 | 43518 | 21.354 | ug/l | | 98 |
| 49) 1,4-Dioxane | 9.459 | 88 | 9712 | 397.829 | ug/l | | 97 |
| 51) 4-Methyl-2-Pentanone | 10.209 | 43 | 253567 | 106.423 | ug/l | | 99 |
| 52) Toluene | 10.386 | 92 | 160474 | 21.039 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 10.605 | 75 | 83098 | 20.387 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 10.075 | 75 | 96489 | 20.866 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 10.788 | 97 | 52115 | 20.771 | ug/l | | 98 |
| 56) Ethyl methacrylate | 10.648 | 69 | 71491 | 21.293 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 10.934 | 76 | 91289 | 20.874 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.928 | 63 | 195002 | 105.002 | ug/l | | 99 |
| 59) 2-Hexanone | 10.971 | 43 | 178926 | 108.432 | ug/l | | 99 |
| 60) Dibromochloromethane | 11.129 | 129 | 58977 | 20.578 | ug/l | | 97 |
| 61) 1,2-Dibromoethane | 11.239 | 107 | 51647 | 21.183 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.861 | 164 | 48059 | 21.074 | ug/l | | 97 |
| 65) Chlorobenzene | 11.660 | 112 | 173499 | 20.189 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.727 | 131 | 53383 | 19.910 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.727 | 91 | 293010 | 20.129 | ug/l | | 96 |
| 68) m/p-Xylenes | 11.837 | 106 | 229740 | 40.901 | ug/l | | 98 |
| 69) o-Xylene | 12.166 | 106 | 110031 | 21.194 | ug/l | | 95 |
| 70) Styrene | 12.178 | 104 | 192666 | 20.893 | ug/l | | 98 |
| 71) Bromoform | 12.349 | 173 | 30108 | 19.630 | ug/l | # | 97 |
| 73) Isopropylbenzene | 12.465 | 105 | 266790 | 19.925 | ug/l | | 99 |
| 74) N-amyl acetate | 12.269 | 43 | 78852 | 20.526 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.714 | 83 | 63958 | 20.118 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.763 | 75 | 80336 | 30.894 | ug/l | | 59 |
| 77) Bromobenzene | 12.745 | 156 | 65314 | 20.423 | ug/l | | 98 |
| 78) n-propylbenzene | 12.800 | 91 | 339857 | 20.616 | ug/l | | 98 |
| 79) 2-Chlorotoluene | 12.885 | 91 | 209277 | 20.570 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.940 | 105 | 238429 | 20.975 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.513 | 75 | 18566 | 18.484 | ug/l | | 92 |
| 82) 4-Chlorotoluene | 12.983 | 91 | 222101 | 20.547 | ug/l | | 100 |
| 83) tert-Butylbenzene | 13.202 | 119 | 196393 | 20.817 | ug/l | | 97 |
| 84) 1,2,4-Trimethylbenzene | 13.245 | 105 | 241596 | 20.878 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.379 | 105 | 282666 | 19.818 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.495 | 119 | 238749 | 20.078 | ug/l | | 98 |
| 87) 1,3-Dichlorobenzene | 13.495 | 146 | 129585 | 20.364 | ug/l | | 96 |
| 88) 1,4-Dichlorobenzene | 13.574 | 146 | 132968 | 20.677 | ug/l | | 100 |
| 89) n-Butylbenzene | 13.818 | 91 | 235392 | 20.377 | ug/l | | 98 |
| 90) Hexachloroethane | 14.092 | 117 | 41522 | 19.094 | ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 13.867 | 146 | 116780 | 20.259 | ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.476 | 75 | 11343 | 20.070 | ug/l | | 98 |
| 93) 1,2,4-Trichlorobenzene | 15.123 | 180 | 67394 | 19.544 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.226 | 225 | 31990 | 20.753 | ug/l | | 93 |
| 95) Naphthalene | 15.360 | 128 | 173199 | 20.498 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.549 | 180 | 67287 | 21.446 | ug/l | | 99 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032061.D
Acq On : 11 Aug 2025 12:48
Operator : SY/MD
Sample : VW0811SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Quant Time: Aug 12 04:23:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

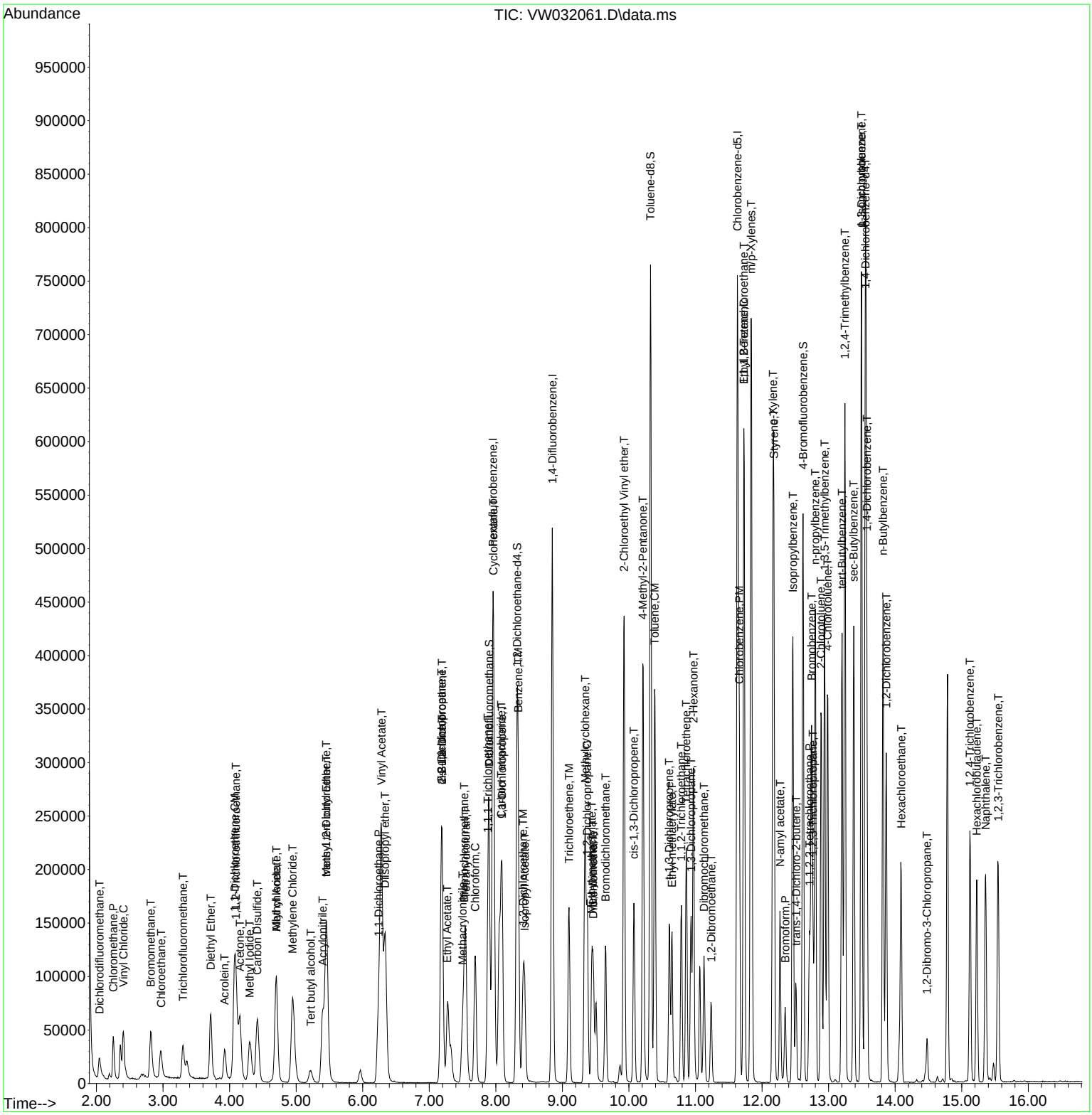
(#) = qualifier out of range (m) = manual integration (+) = signals summed

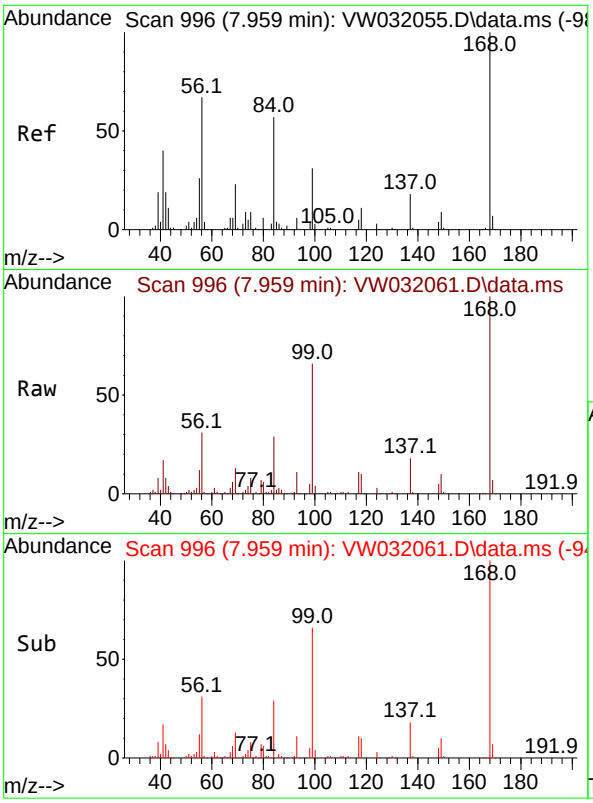
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032061.D
Acq On : 11 Aug 2025 12:48
Operator : SY/MD
Sample : VW0811SBS01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Quant Time: Aug 12 04:23:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration



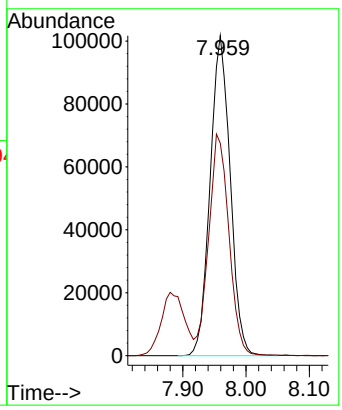


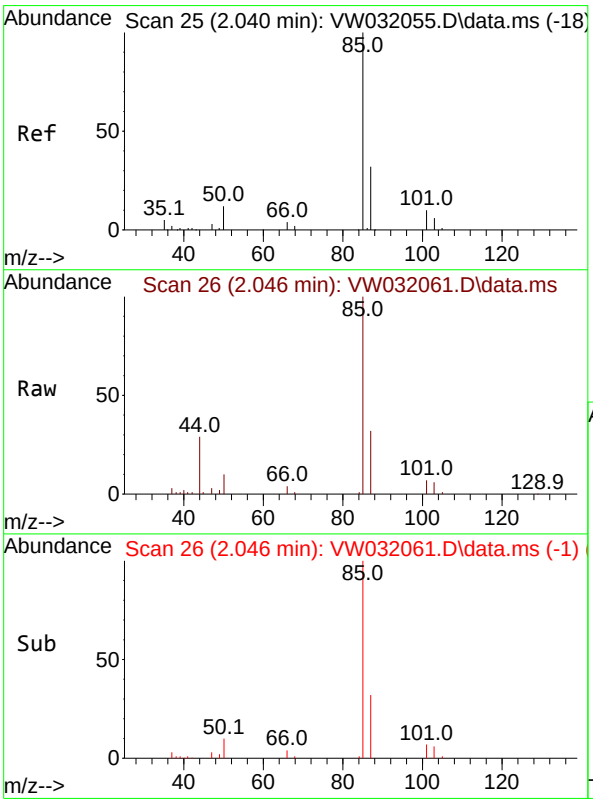

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion:168 Resp: 224181

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 66.2 | 56.0 | 84.0 |

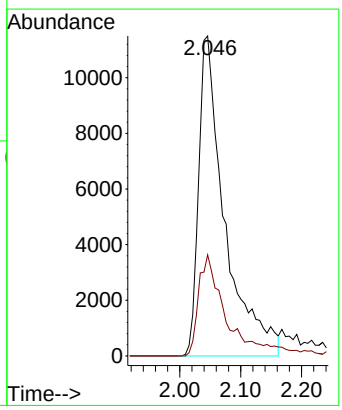


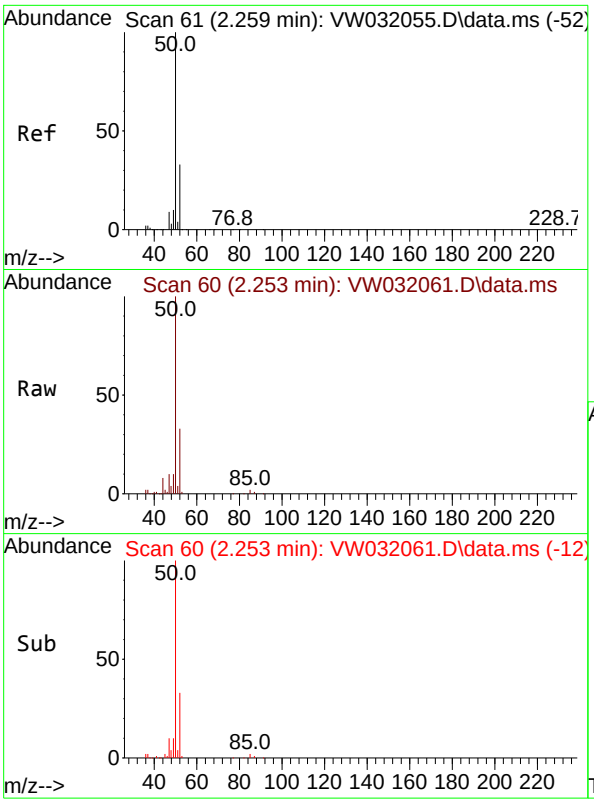




#2
Dichlorodifluoromethane
Concen: 21.336 ug/l
RT: 2.046 min Scan# 26
Delta R.T. 0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 85 Resp: 34210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.6 | 16.2 | 48.6 |



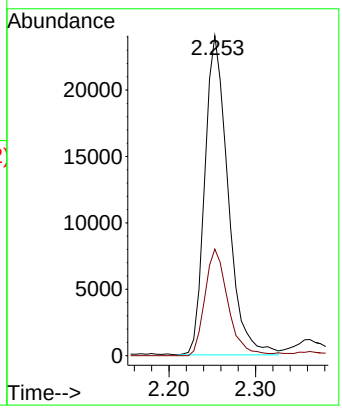


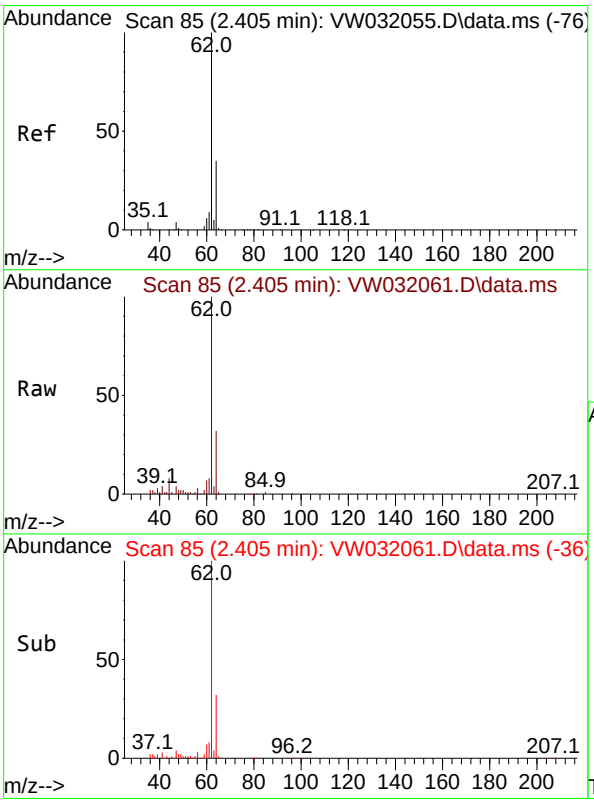

#3
Chloromethane
Concen: 20.755 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion: 50 Resp: 44827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.4 | 26.6 | 39.8 |

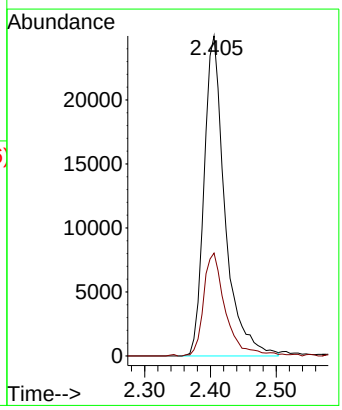


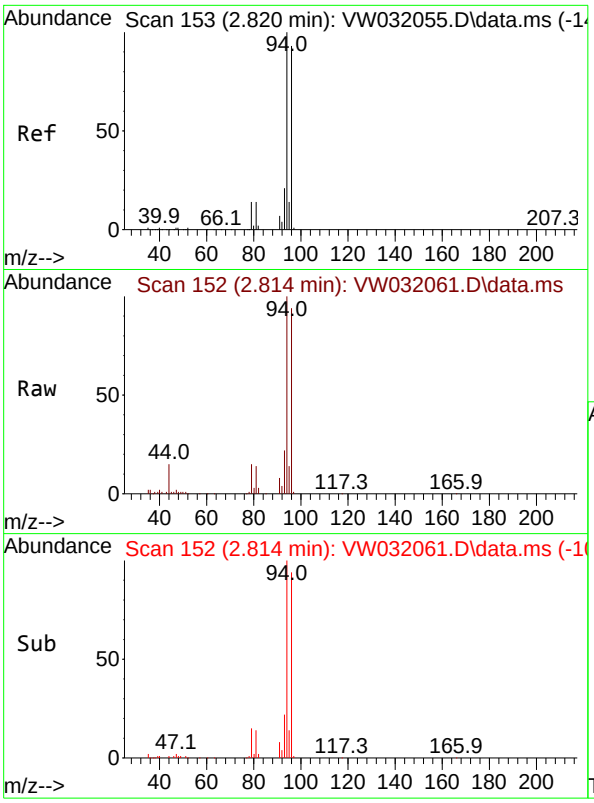




#4
Vinyl Chloride
Concen: 21.098 ug/l
RT: 2.405 min Scan# 85
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 62 Resp: 55119

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.2 | 27.8 | 41.6 |



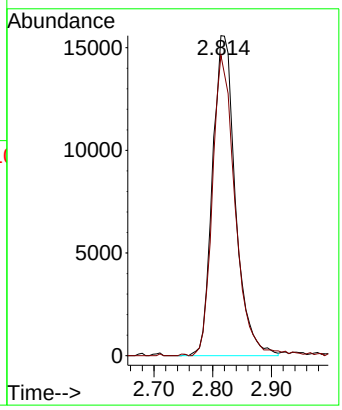


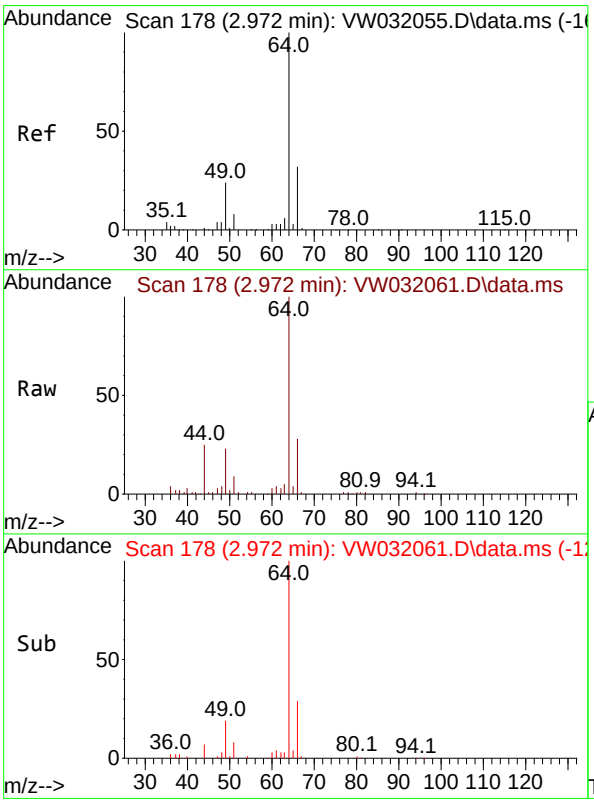

#5
Bromomethane
Concen: 21.516 ug/l
RT: 2.814 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion: 94 Resp: 42172

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 93.9 | 74.7 | 112.1 |

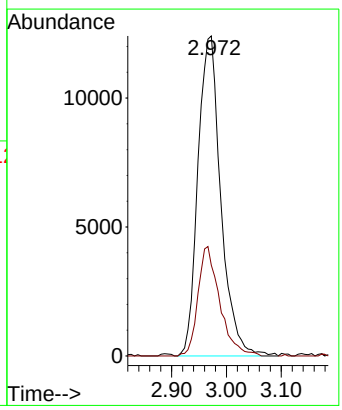


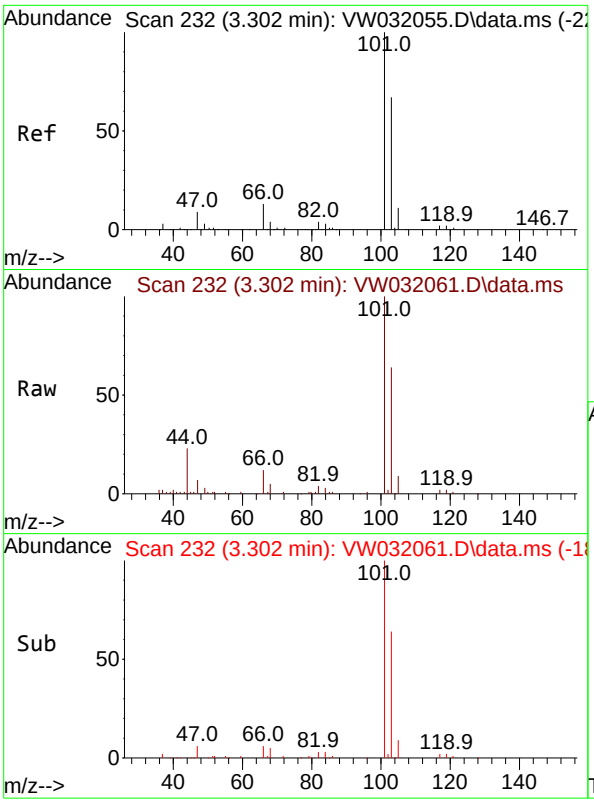




#6
Chloroethane
Concen: 20.827 ug/l
RT: 2.972 min Scan# 178
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 64 Resp: 36005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 28.3 | 26.0 | 39.0 |



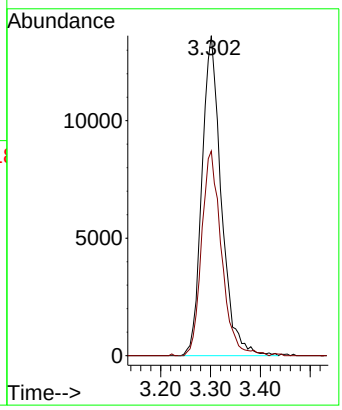


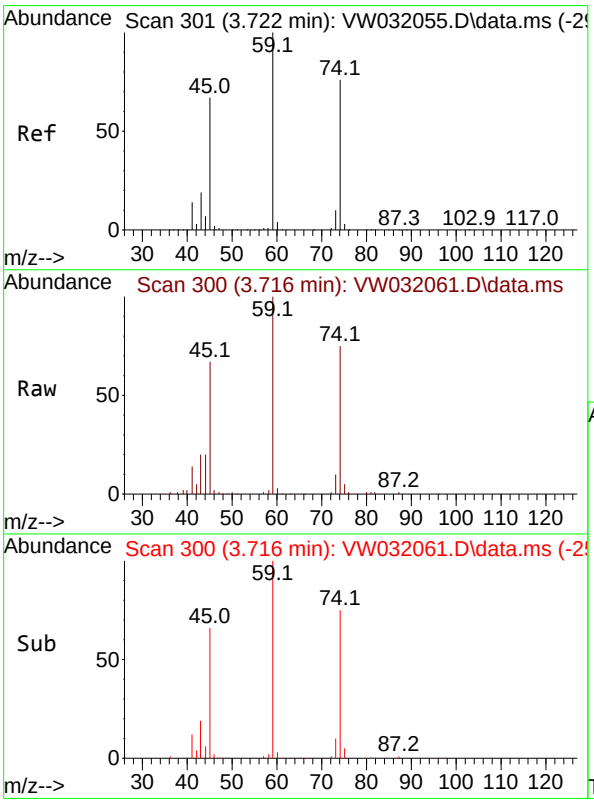

#7
Trichlorofluoromethane
Concen: 17.595 ug/l
RT: 3.302 min Scan# 2
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion:101 Resp: 36824

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.9 | 53.4 | 80.0 |

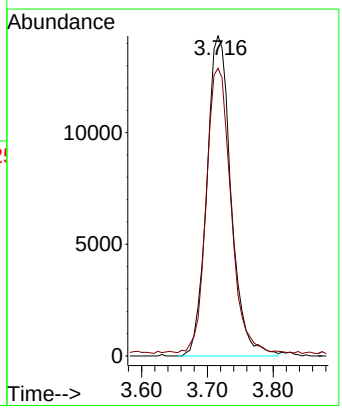


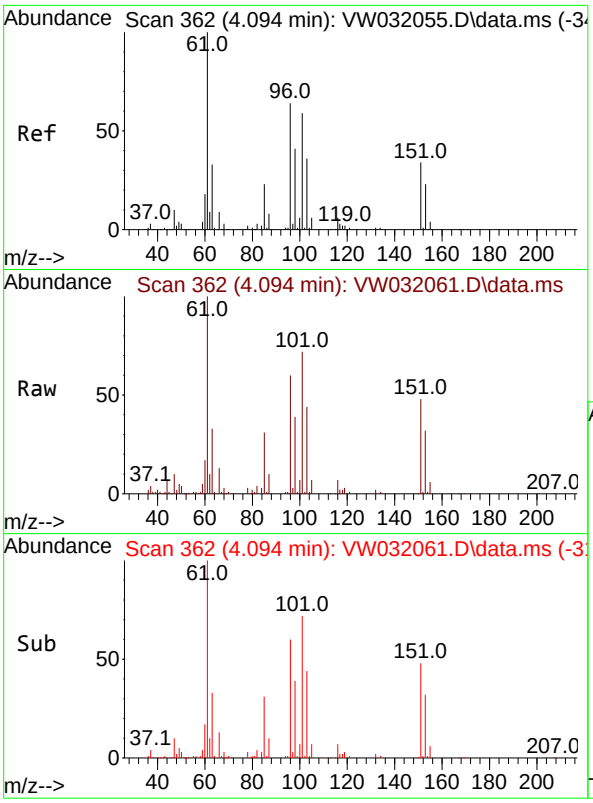




#8
Diethyl Ether
Concen: 21.483 ug/l
RT: 3.716 min Scan# 300
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 74 Resp: 36836

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 90.0 | 45.4 | 136.2 |



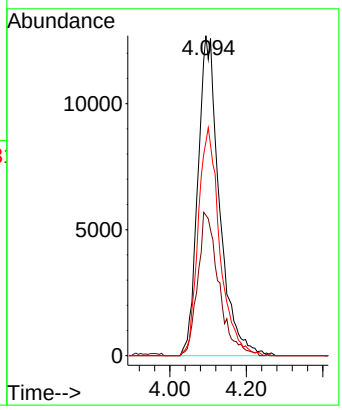


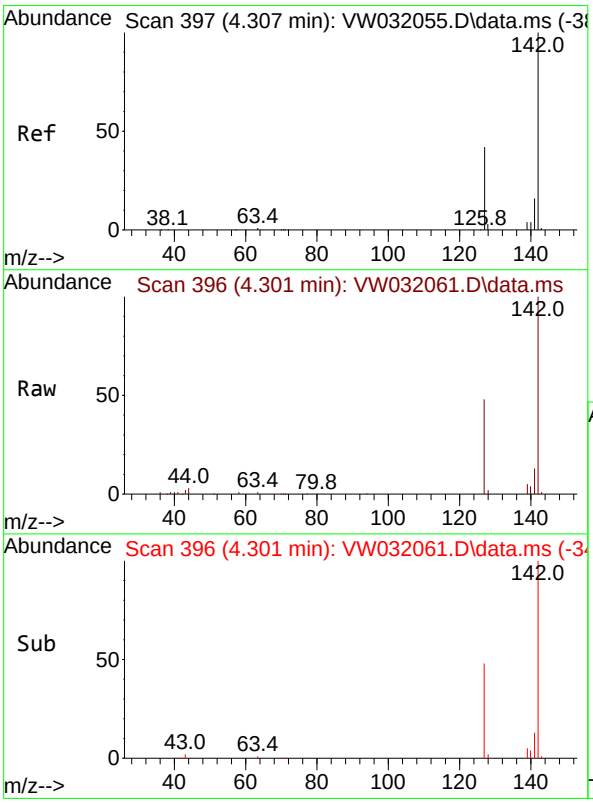

#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.107 ug/l
RT: 4.094 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion:101 Resp: 49645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 44.1 | 34.9 | 52.3 |
| 151 | 71.3 | 56.2 | 84.4 |

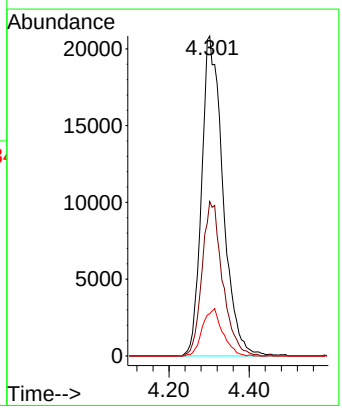


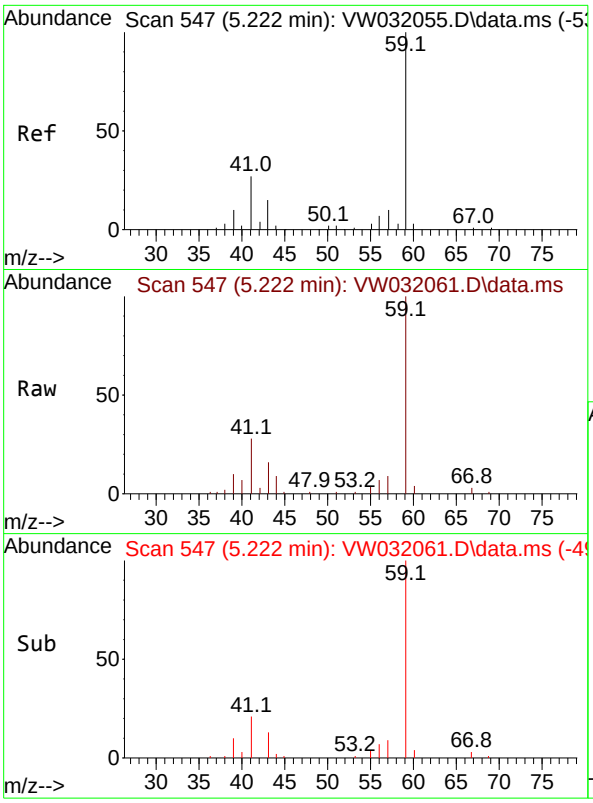




#10
Methyl Iodide
Concen: 21.970 ug/l
RT: 4.301 min Scan# 396
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:142 Resp: 76912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 46.4 | 36.6 | 55.0 |
| 141 | 14.0 | 12.1 | 18.1 |



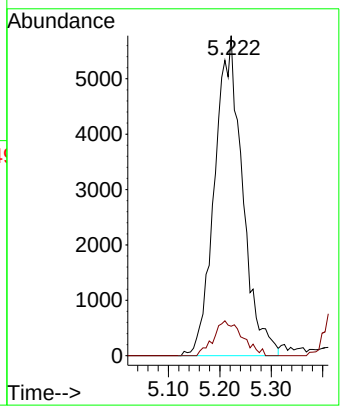


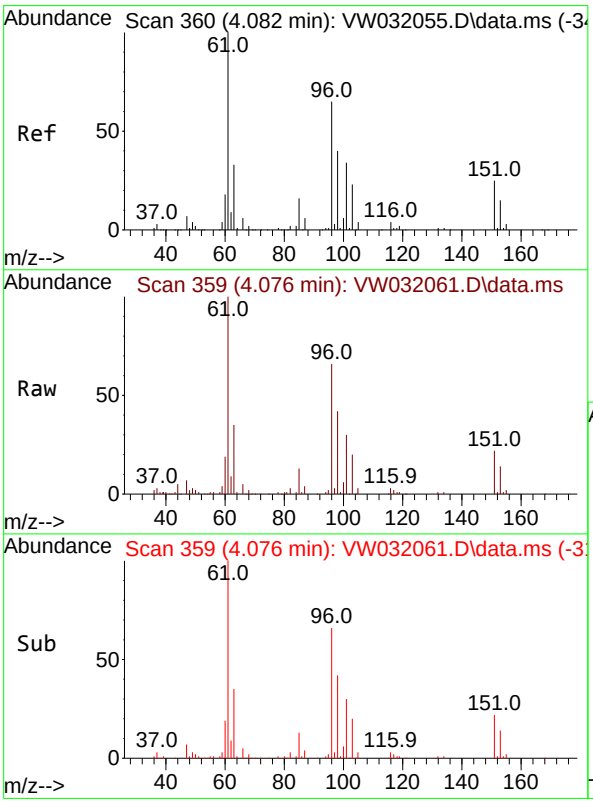

#11
Tert butyl alcohol
Concen: 103.263 ug/l
RT: 5.222 min Scan# 54
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion: 59 Resp: 21680

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 11.3 | 8.7 | 13.1 |

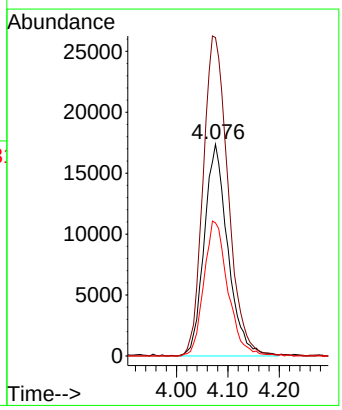


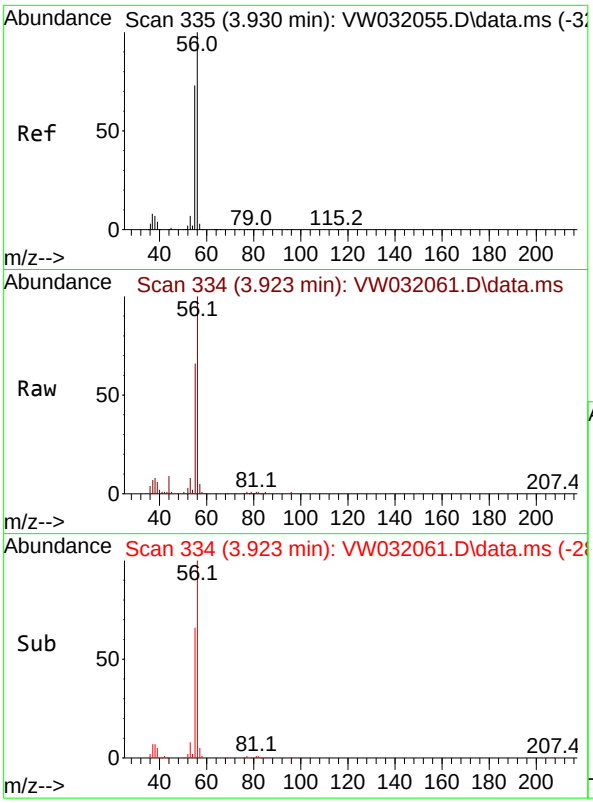




#12
1,1-Dichloroethene
Concen: 20.435 ug/l
RT: 4.076 min Scan# 359
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 96 Resp: 55559

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 150.5 | 123.4 | 185.2 |
| 98 | 62.9 | 49.5 | 74.3 |



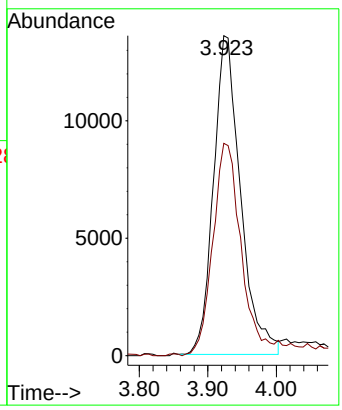


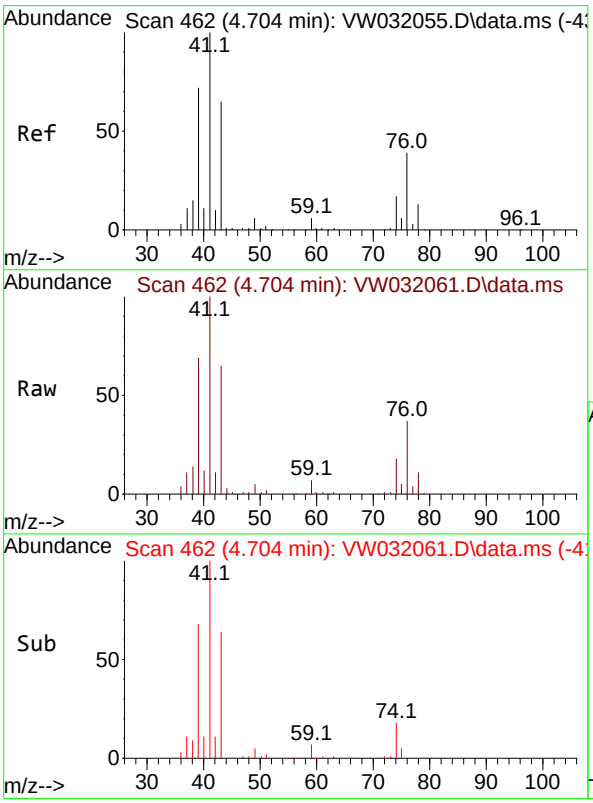

#13
Acrolein
Concen: 111.050 ug/l
RT: 3.923 min Scan# 3
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion: 56 Resp: 37149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 69.5 | 55.4 | 83.2 |

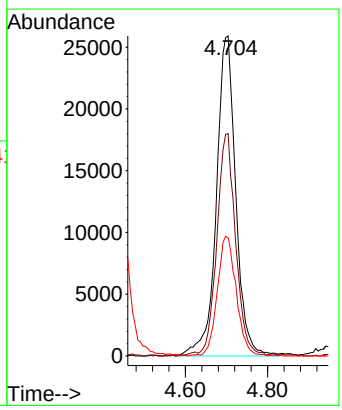


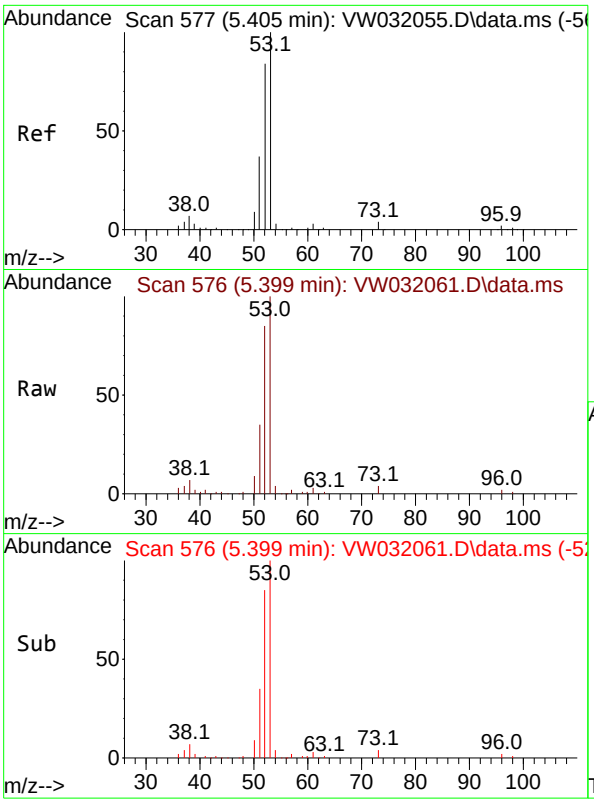




#14
Allyl chloride
Concen: 21.439 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 41 Resp: 84834

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 67.7 | 54.5 | 81.7 |
| 76 | 36.6 | 29.3 | 43.9 |



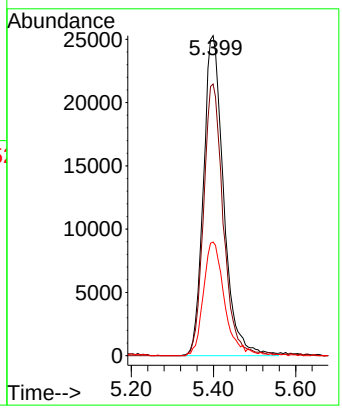


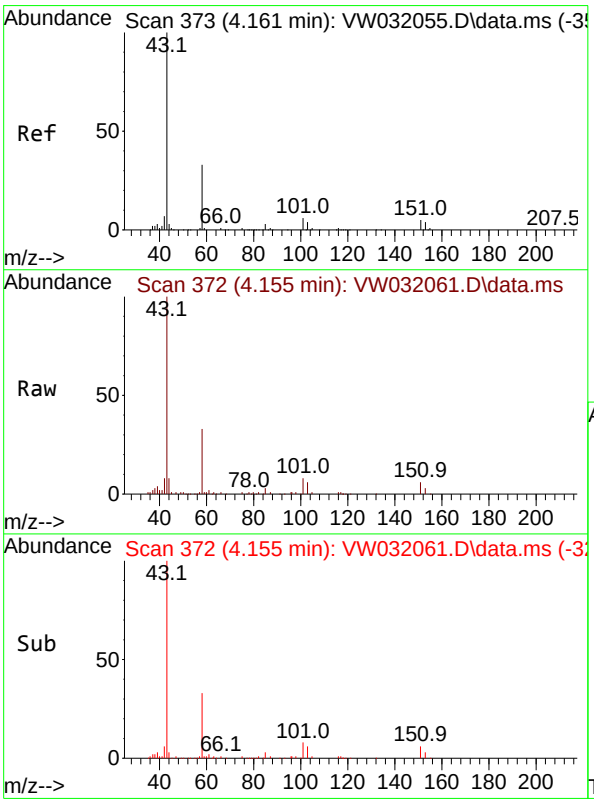

#15
Acrylonitrile
Concen: 105.428 ug/l
RT: 5.399 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion: 53 Resp: 86103

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.5 | 66.1 | 99.1 |
| 51 | 37.5 | 29.2 | 43.8 |

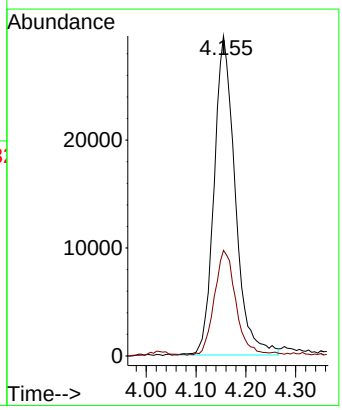


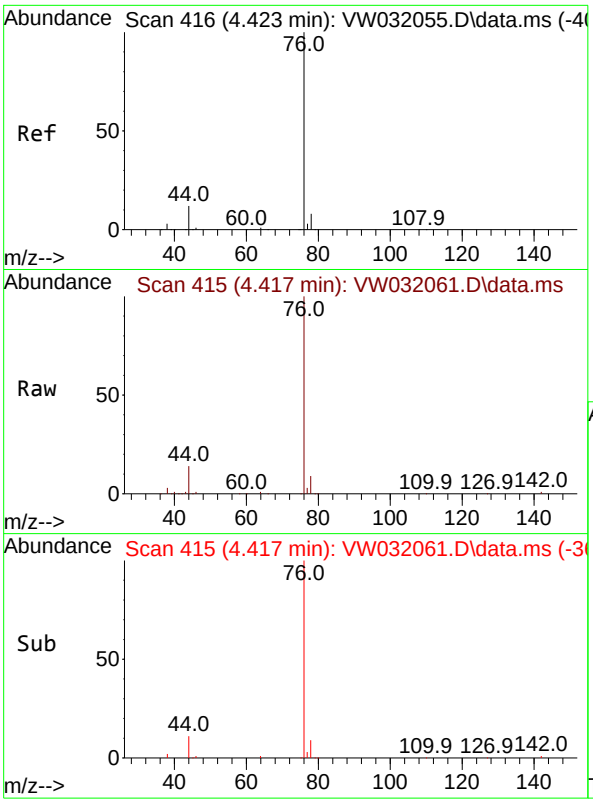




#16
Acetone
Concen: 115.783 ug/l
RT: 4.155 min Scan# 372
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 43 Resp: 86915

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.6 | 26.6 | 39.8 |



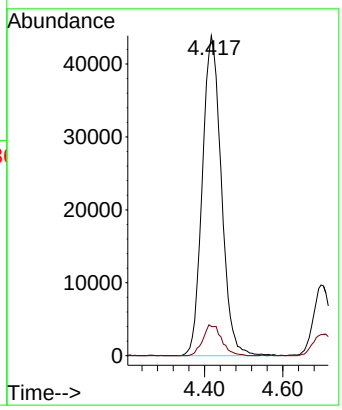


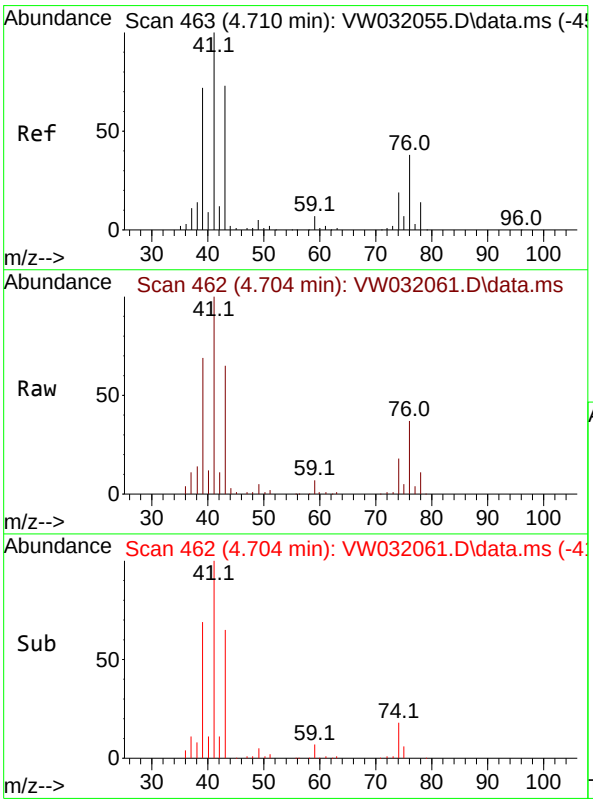

#17
Carbon Disulfide
Concen: 20.248 ug/l
RT: 4.417 min Scan# 4
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion: 76 Resp: 147760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.2 | 6.4 | 9.6 |

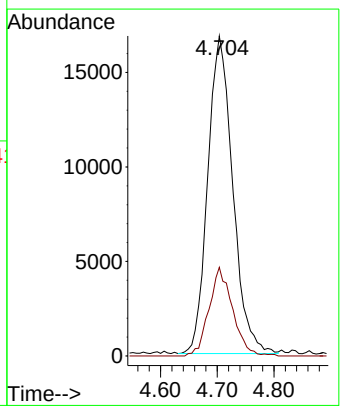


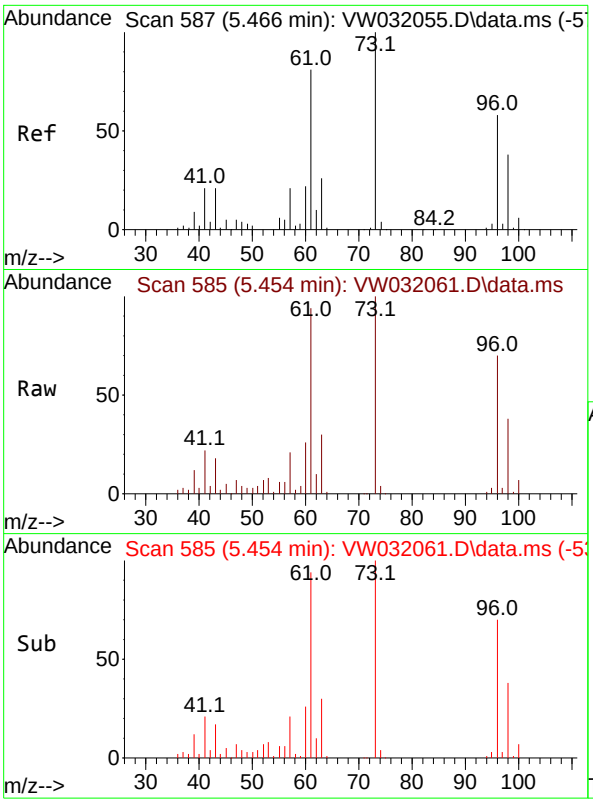




#18
Methyl Acetate
Concen: 21.665 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 43 Resp: 51464

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 26.3 | 20.6 | 31.0 |



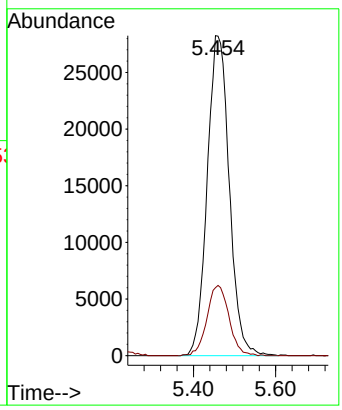


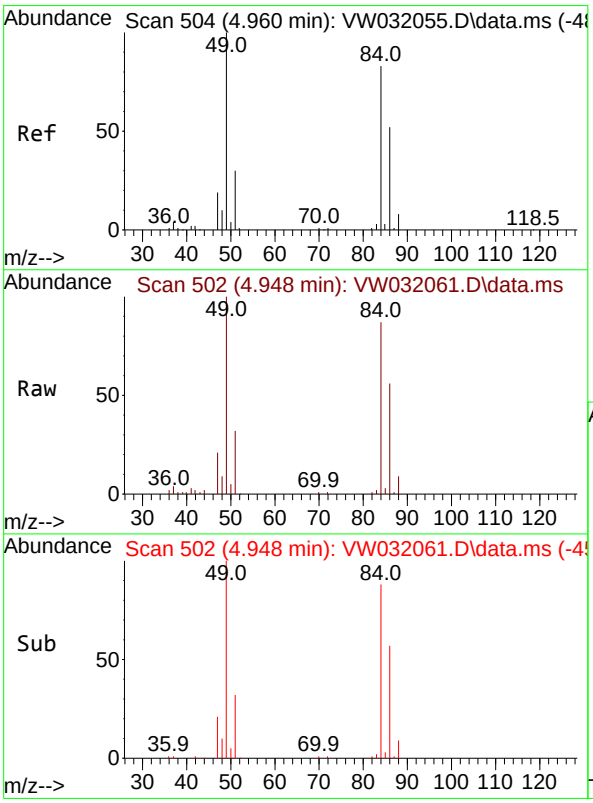

#19
Methyl tert-butyl Ether
Concen: 21.914 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.012 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion: 73 Resp: 104973

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.3 | 17.2 | 25.8 |

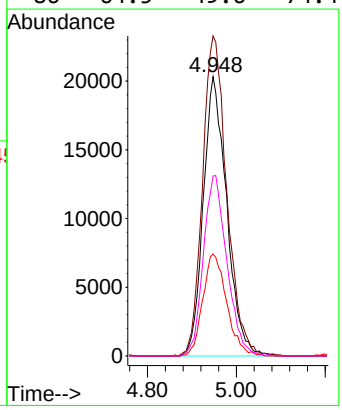


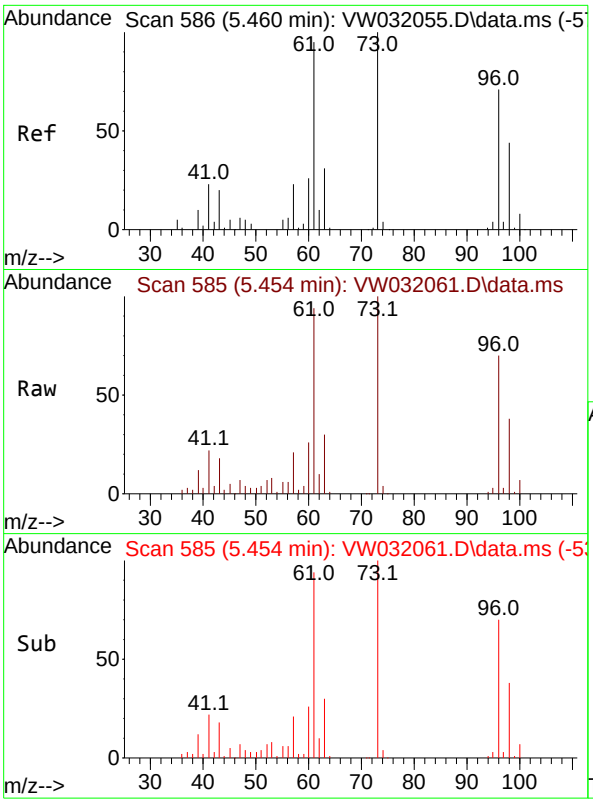




#20
Methylene Chloride
Concen: 21.408 ug/l
RT: 4.948 min Scan# 502
Delta R.T. -0.012 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 84 Resp: 74303

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 114.6 | 95.9 | 143.9 |
| 51 | 36.5 | 28.6 | 43.0 |
| 86 | 64.5 | 49.6 | 74.4 |



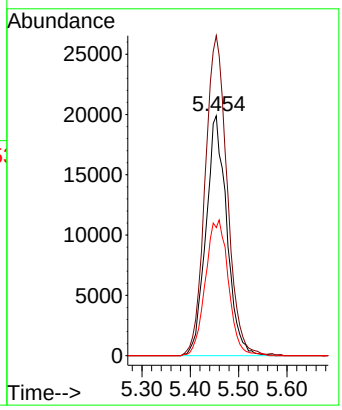


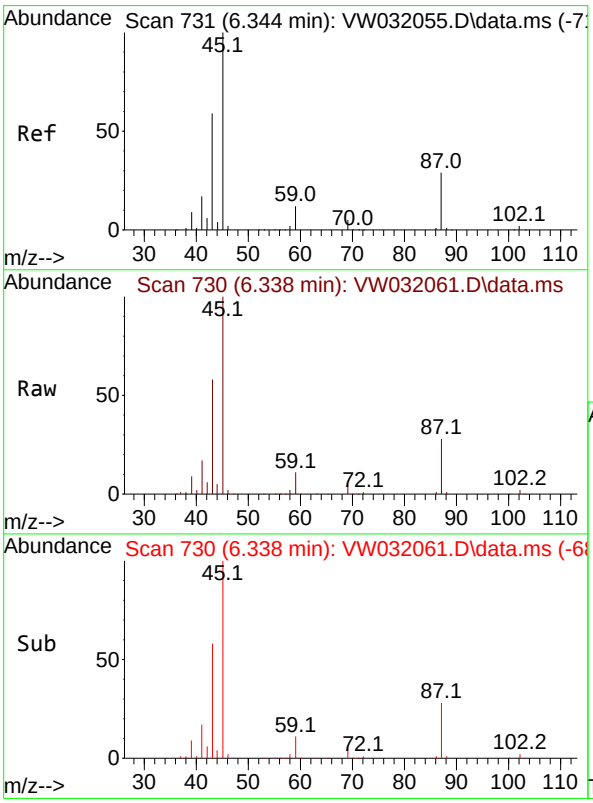

#21
trans-1,2-Dichloroethene
Concen: 20.698 ug/l
RT: 5.454 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion: 96 Resp: 59717

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 133.4 | 106.8 | 160.2 |
| 98 | 53.4 | 49.6 | 74.4 |

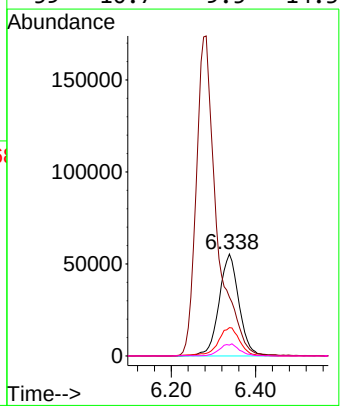


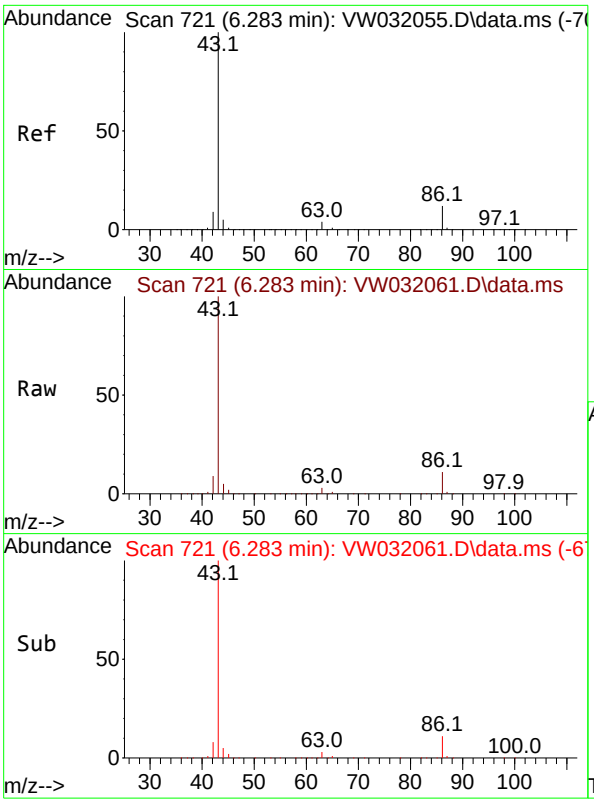




#22
Diisopropyl ether
Concen: 21.692 ug/l
RT: 6.338 min Scan# 730
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 45 Resp: 180946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 57.4 | 47.0 | 70.4 |
| 87 | 27.9 | 23.8 | 35.8 |
| 59 | 10.7 | 9.5 | 14.3 |



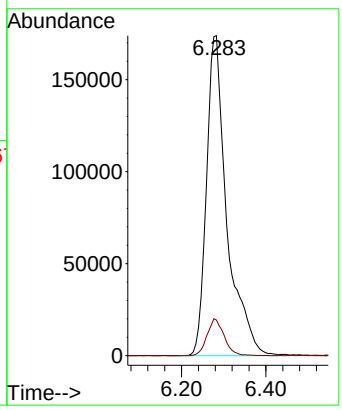


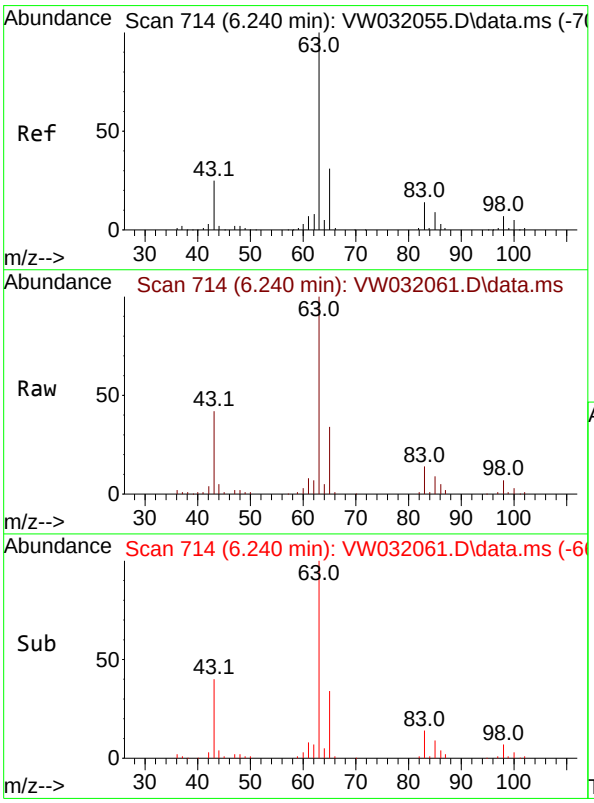

#23
Vinyl Acetate
Concen: 106.987 ug/l
RT: 6.283 min Scan# 7
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion: 43 Resp: 585943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.2 | 9.4 | 14.0 |

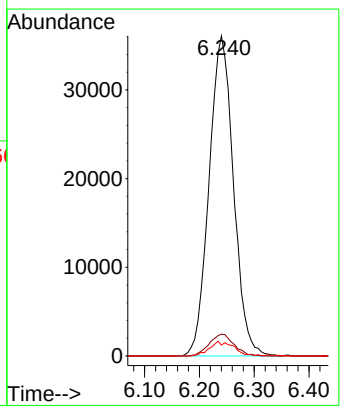


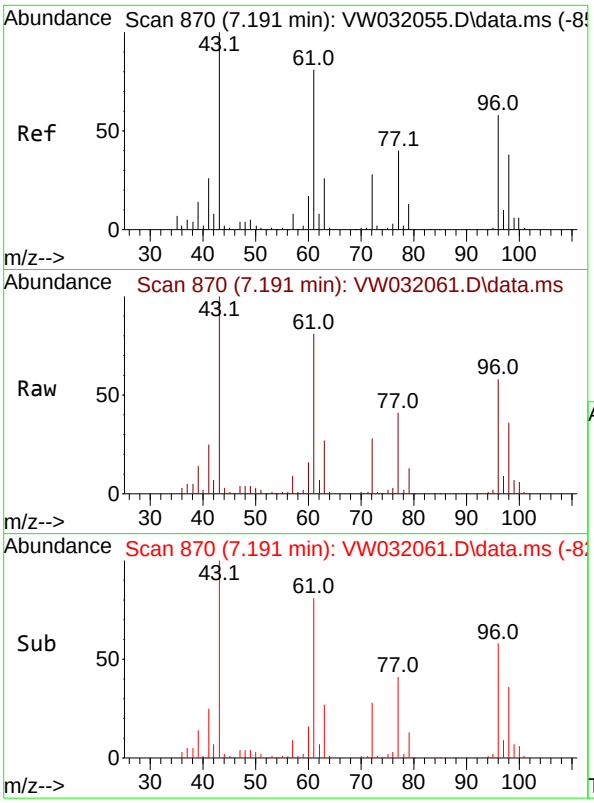




#24
1,1-Dichloroethane
Concen: 20.971 ug/l
RT: 6.240 min Scan# 714
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 63 Resp: 111769

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.8 | 3.7 | 11.1 |
| 100 | 3.4 | 2.5 | 7.4 |



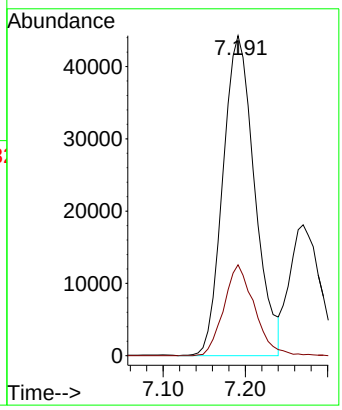


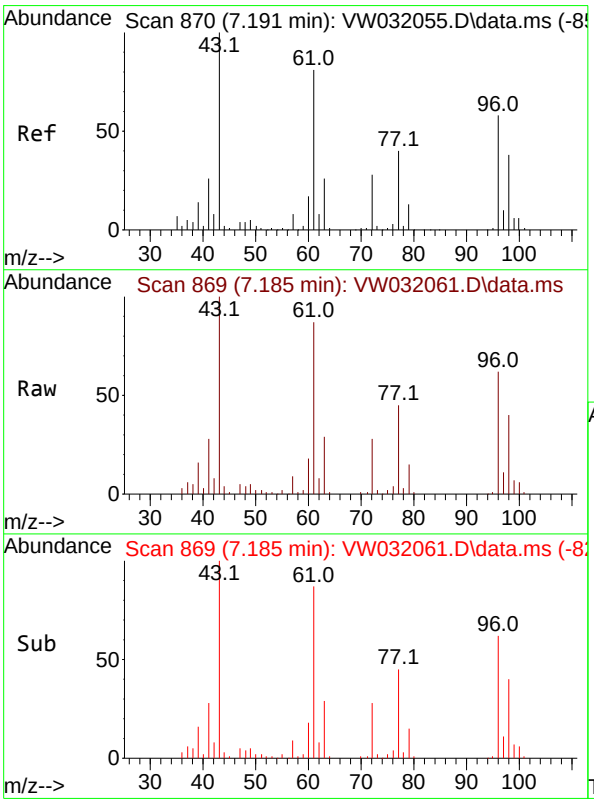

#25
2-Butanone
Concen: 111.594 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion: 43 Resp: 119059

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 28.4 | 22.3 | 33.5 |

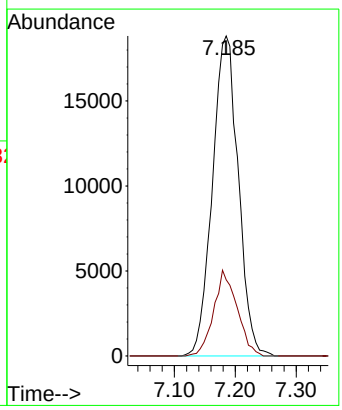


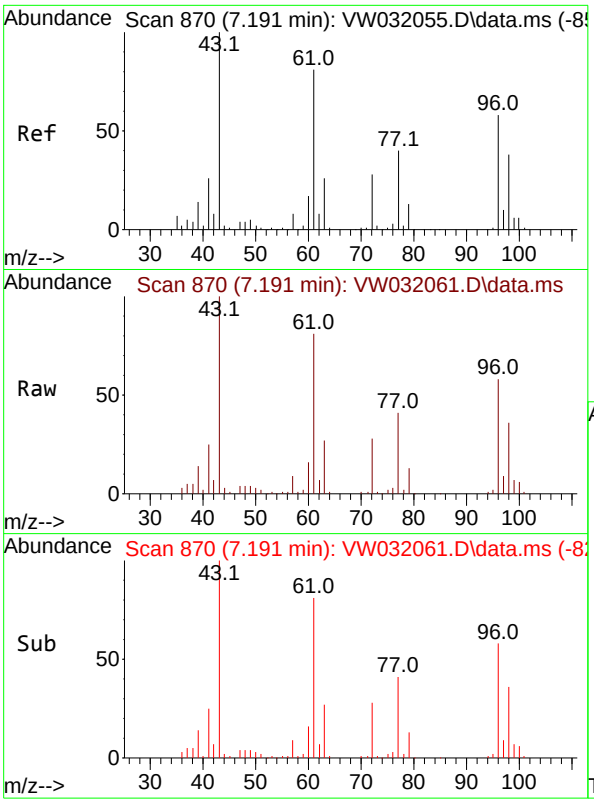




#26
2,2-Dichloropropane
Concen: 20.753 ug/l
RT: 7.185 min Scan# 869
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 77 Resp: 55490

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 24.2 | 12.3 | 36.9 |



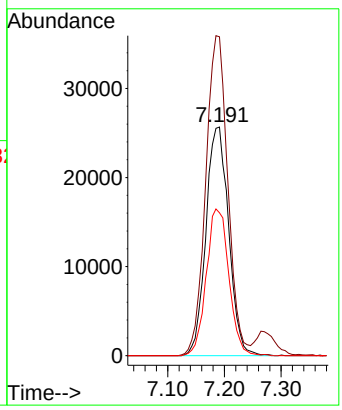


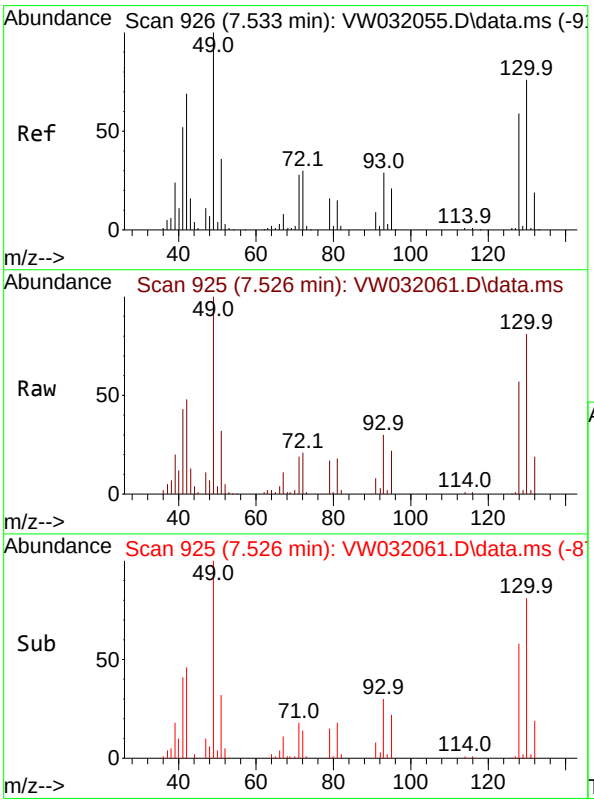

#27
cis-1,2-Dichloroethene
Concen: 21.221 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion: 96 Resp: 71568

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 136.3 | 0.0 | 281.2 |
| 98 | 63.8 | 0.0 | 130.8 |

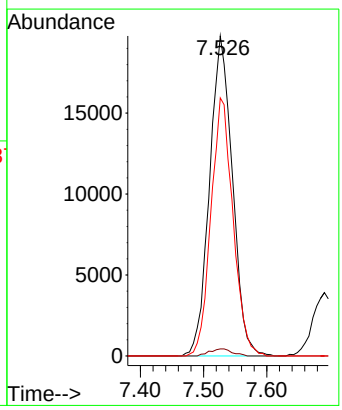


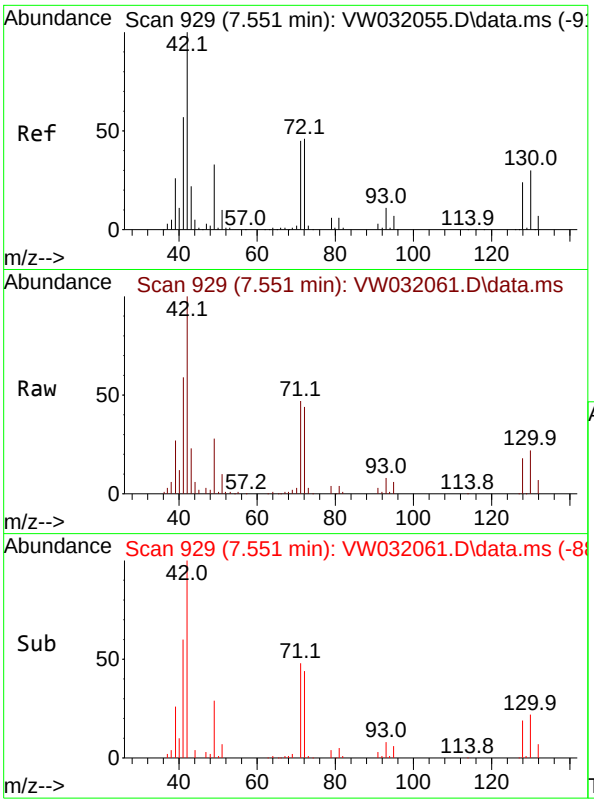




#28
Bromochloromethane
Concen: 20.501 ug/l
RT: 7.526 min Scan# 925
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 49 Resp: 49722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.2 | 0.0 | 4.2 |
| 130 | 77.6 | 61.9 | 92.9 |



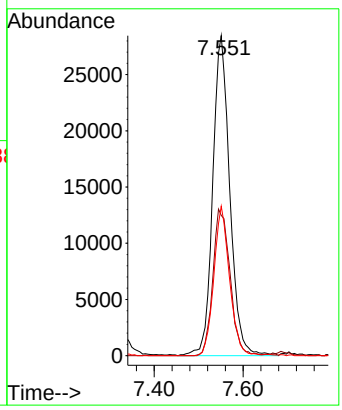


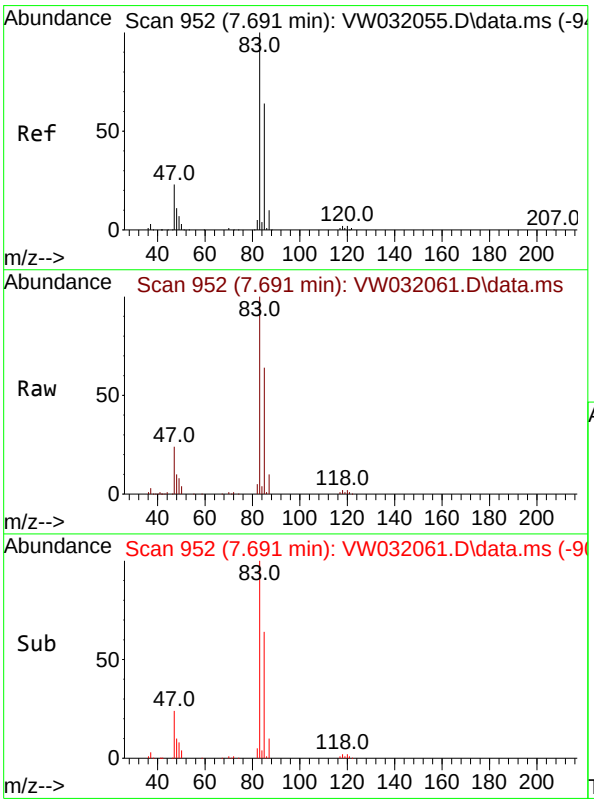

#29
Tetrahydrofuran
Concen: 107.756 ug/l
RT: 7.551 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion: 42 Resp: 75818

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 46.0 | 36.6 | 55.0 |
| 71 | 43.0 | 34.7 | 52.1 |

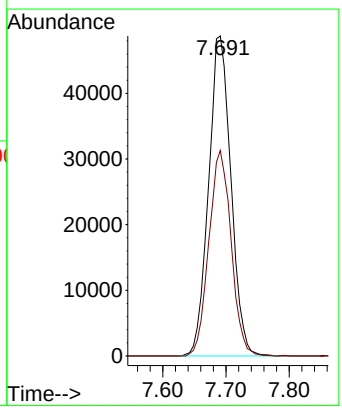


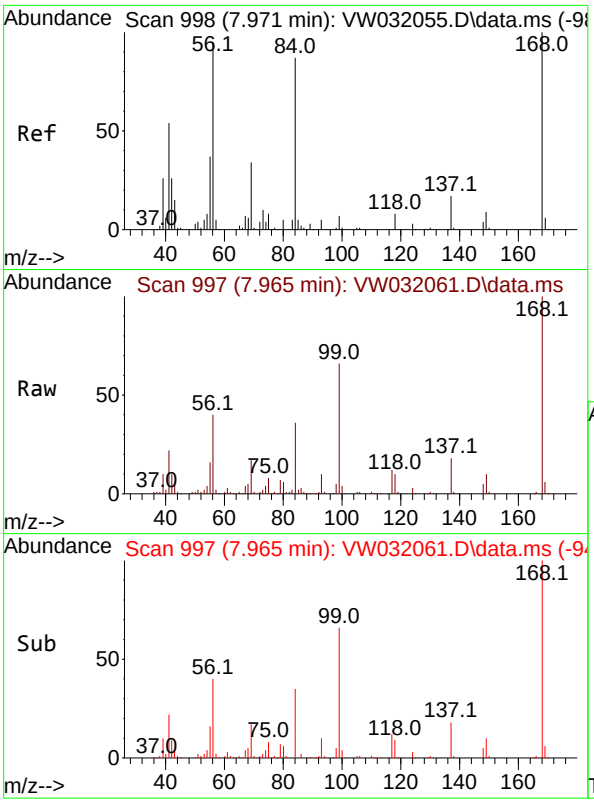




#30
Chloroform
Concen: 21.137 ug/l
RT: 7.691 min Scan# 952
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 83 Resp: 119431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.2 | 51.0 | 76.4 |



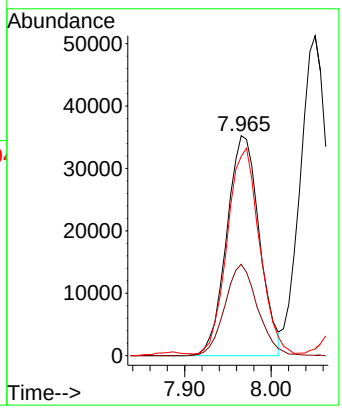


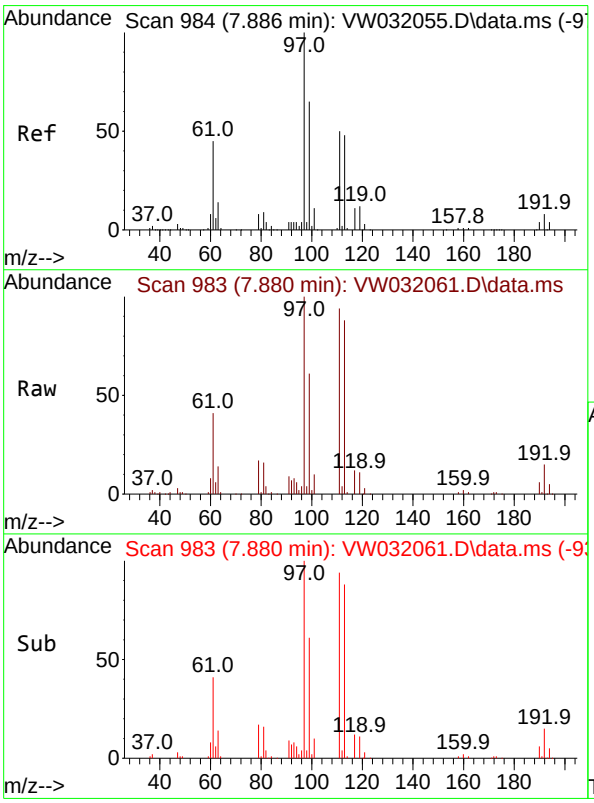

#31
Cyclohexane
Concen: 19.992 ug/l
RT: 7.965 min Scan# 9
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion: 56 Resp: 92372

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 41.5 | 28.6 | 42.8 |
| 84 | 89.3 | 73.0 | 109.4 |

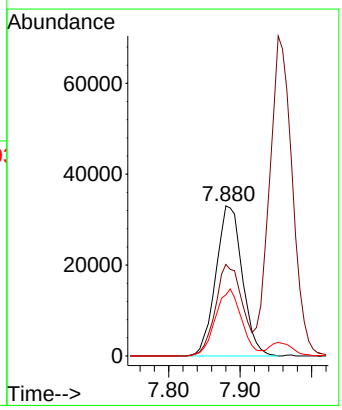


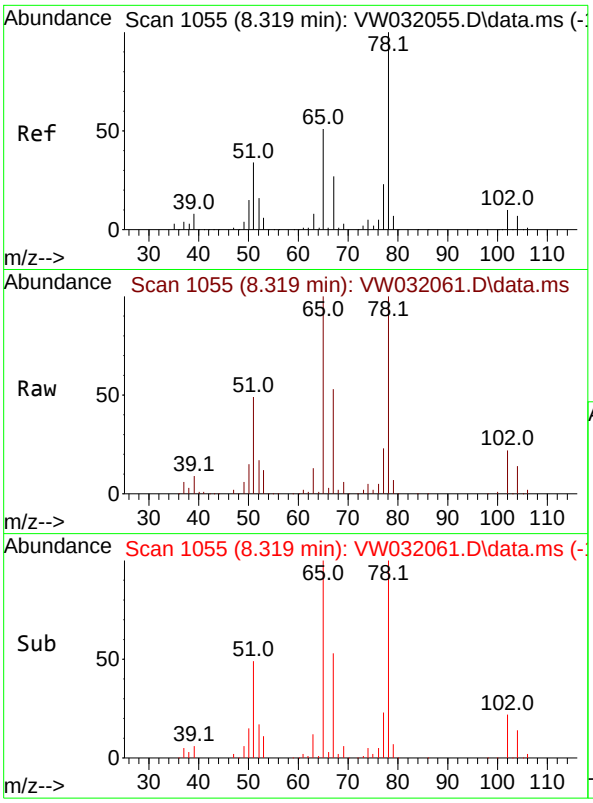




#32
1,1,1-Trichloroethane
Concen: 20.707 ug/l
RT: 7.880 min Scan# 983
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 97 Resp: 84982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 61.5 | 51.8 | 77.8 |
| 61 | 44.0 | 35.9 | 53.9 |



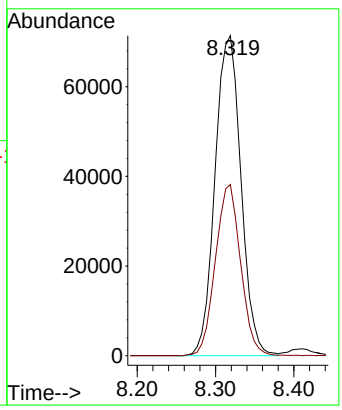


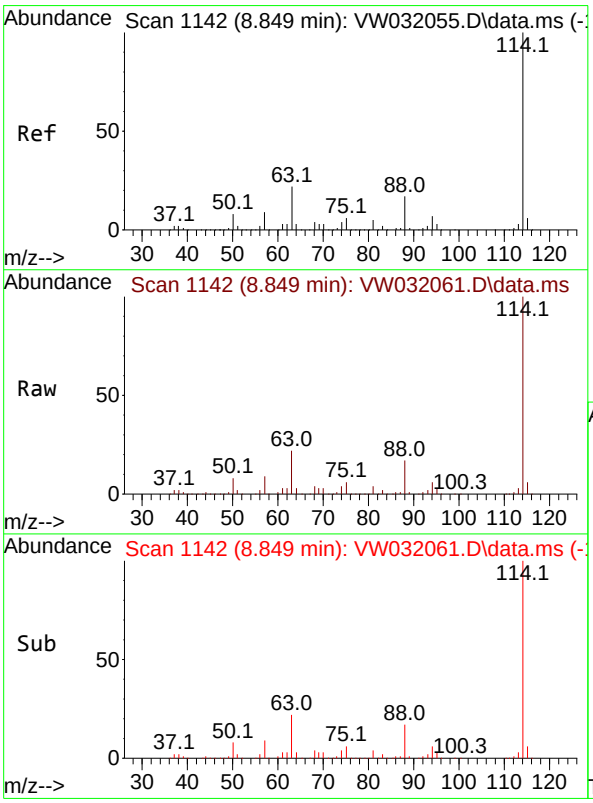

#33
1,2-Dichloroethane-d4
Concen: 50.753 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion: 65 Resp: 164557

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.9 | 0.0 | 102.4 |

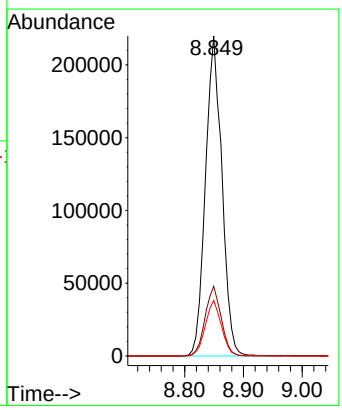


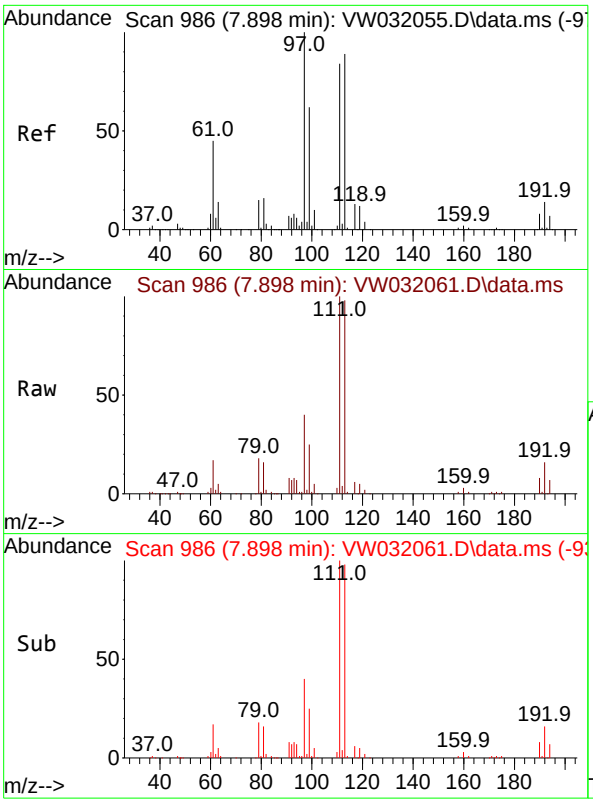




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:114 Resp: 427747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.8 | 0.0 | 43.0 |
| 88 | 17.3 | 0.0 | 33.8 |



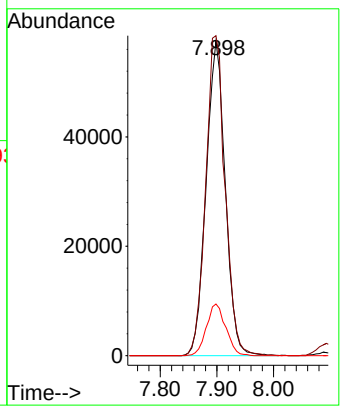


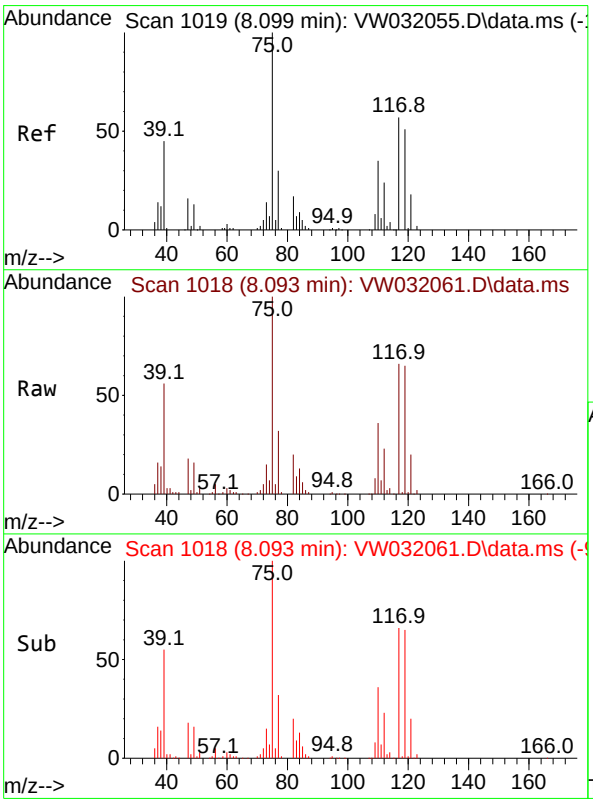

#35
Dibromofluoromethane
Concen: 48.883 ug/l
RT: 7.898 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion:113 Resp: 135084

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.1 | 80.1 | 120.1 |
| 192 | 16.5 | 13.1 | 19.7 |

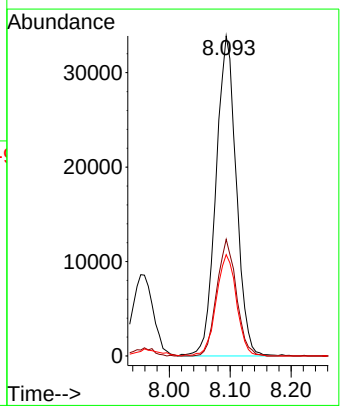


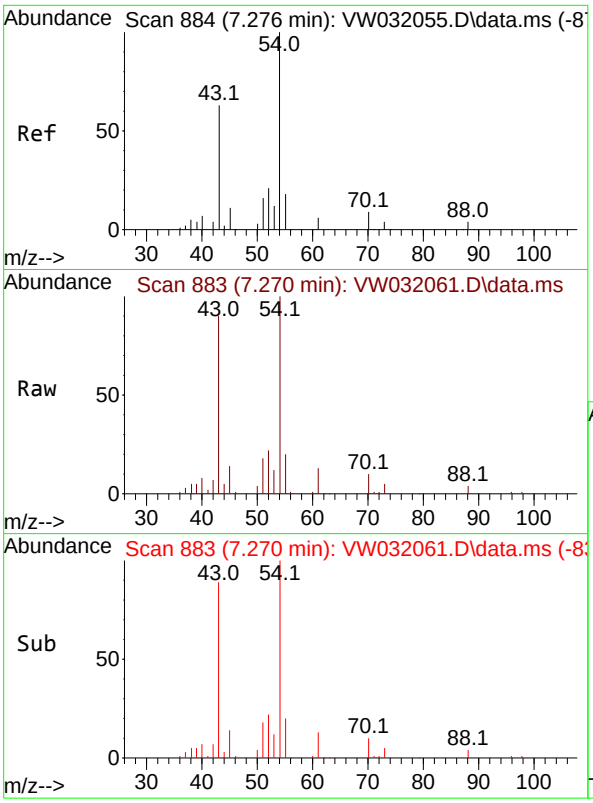




#36
1,1-Dichloropropene
Concen: 20.161 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 75 Resp: 78541

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.2 | 17.4 | 52.2 |
| 77 | 31.7 | 24.7 | 37.1 |



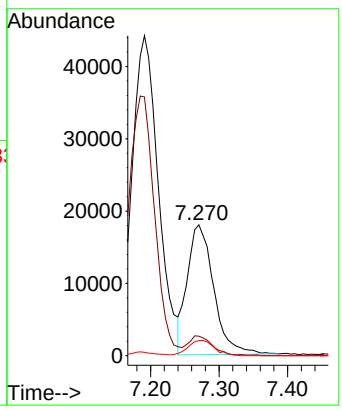


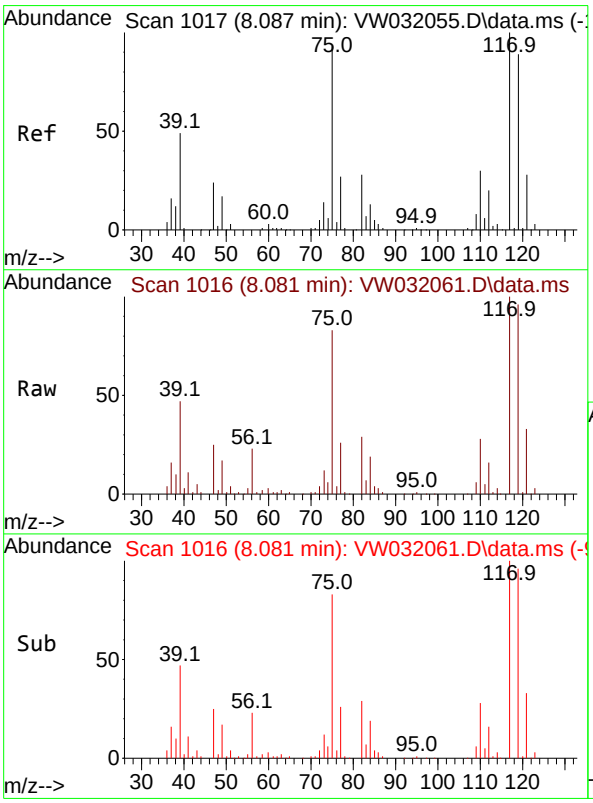

#37
Ethyl Acetate
Concen: 20.977 ug/l
RT: 7.270 min Scan# 8
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion: 43 Resp: 48130

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.0 | 11.8 | 17.6 |
| 70 | 11.7 | 9.4 | 14.0 |

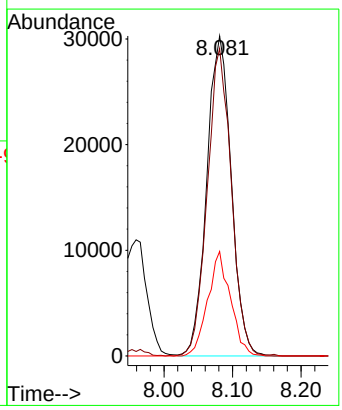


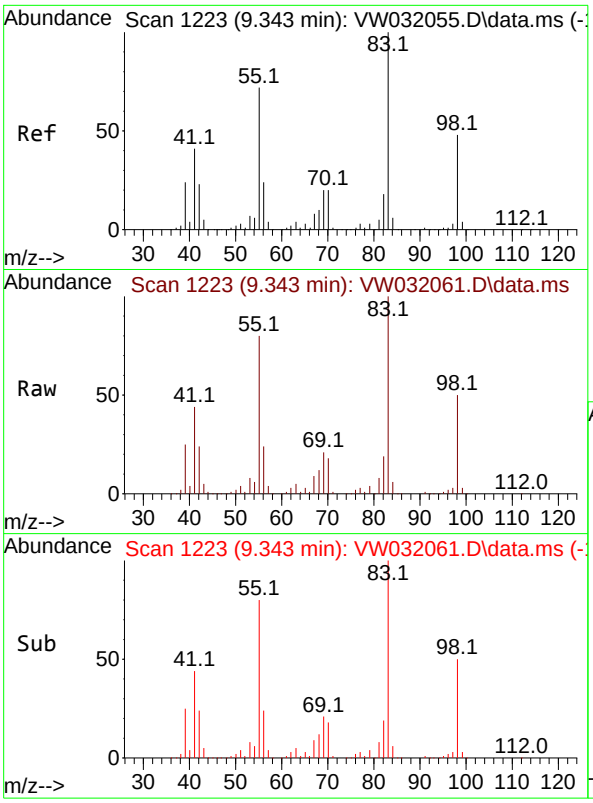




#38
Carbon Tetrachloride
Concen: 19.971 ug/l
RT: 8.081 min Scan# 1016
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:117 Resp: 75079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.9 | 71.4 | 107.2 |
| 121 | 32.6 | 22.3 | 33.5 |



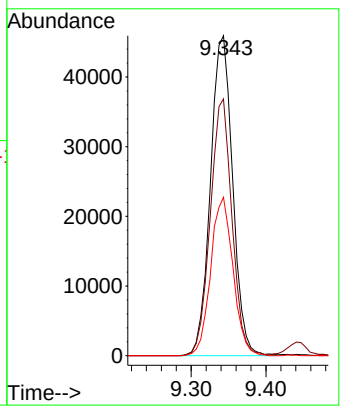


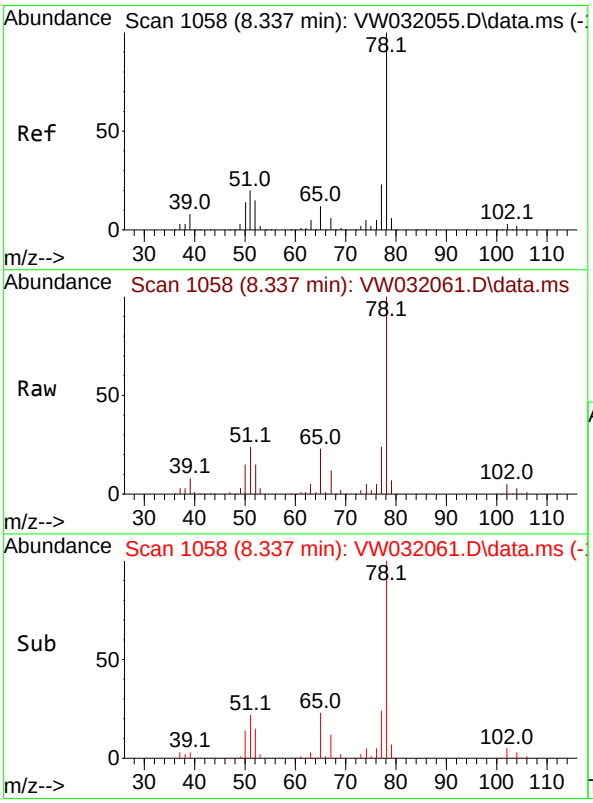

#39
Methylcyclohexane
Concen: 20.000 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion: 83 Resp: 94968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 80.3 | 57.9 | 86.9 |
| 98 | 49.5 | 38.3 | 57.5 |

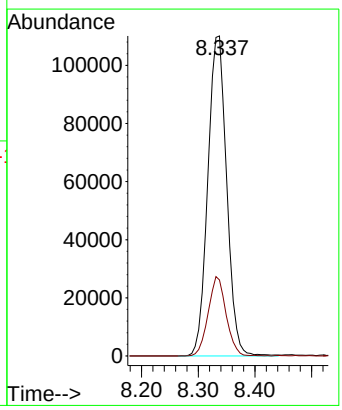


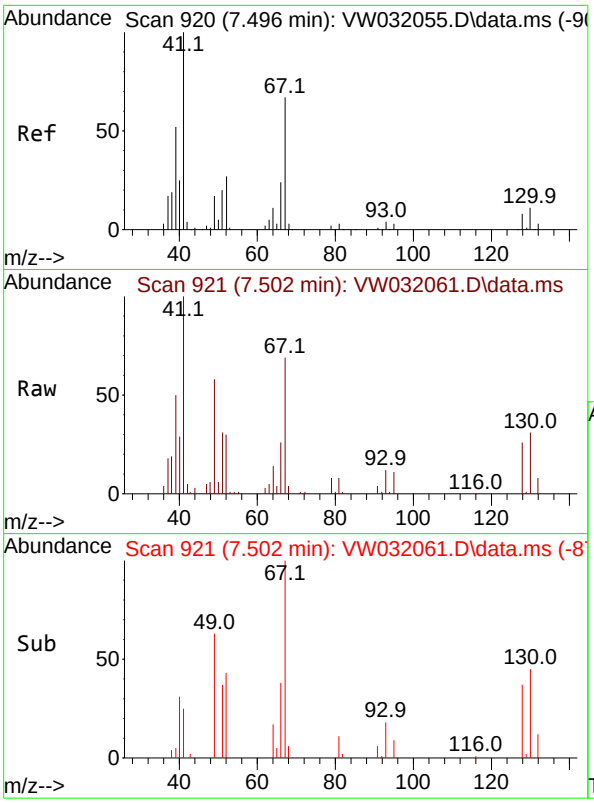




#40
Benzene
Concen: 20.993 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 78 Resp: 254209

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.7 | 18.4 | 27.6 |



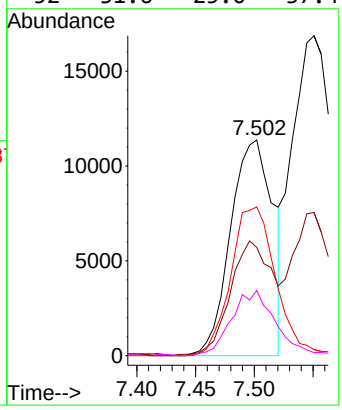


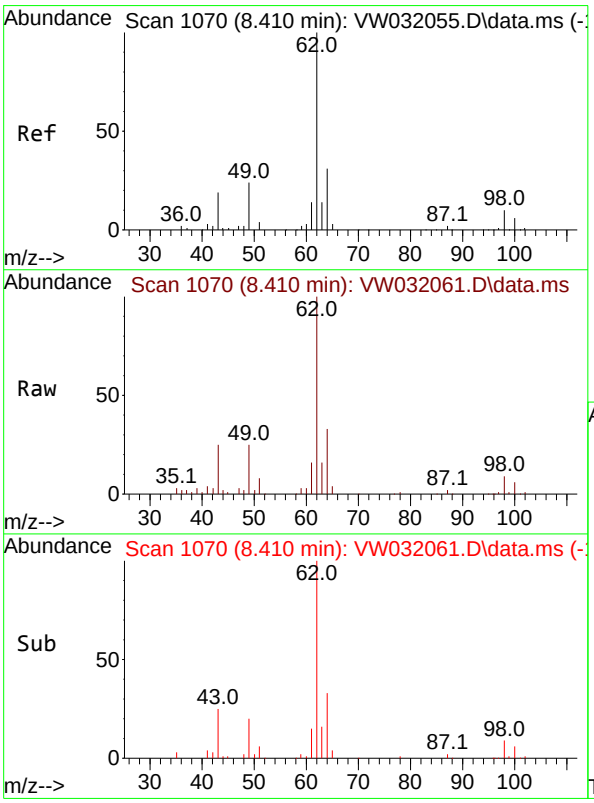

#41
Methacrylonitrile
Concen: 21.963 ug/l
RT: 7.502 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion: 41 Resp: 28577

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 52.5 | 42.6 | 63.8 |
| 67 | 73.7 | 61.0 | 91.4 |
| 52 | 31.6 | 25.0 | 37.4 |

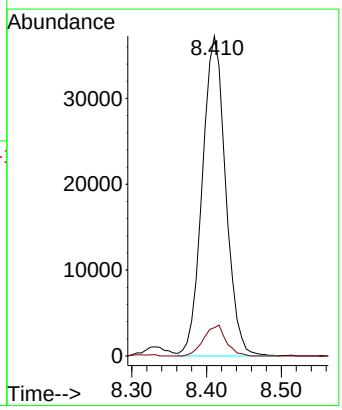


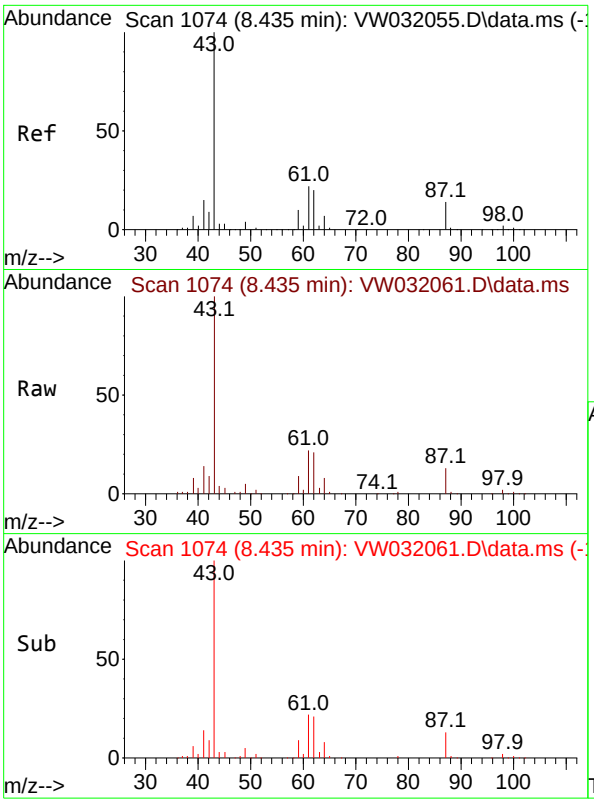




#42
1,2-Dichloroethane
Concen: 20.917 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 62 Resp: 81049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.2 | 0.0 | 19.8 |



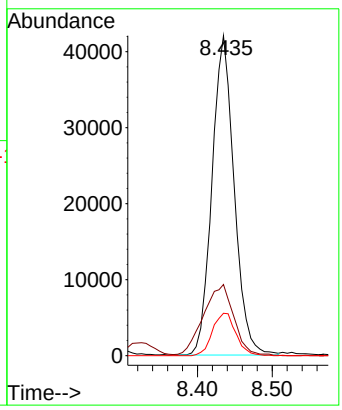


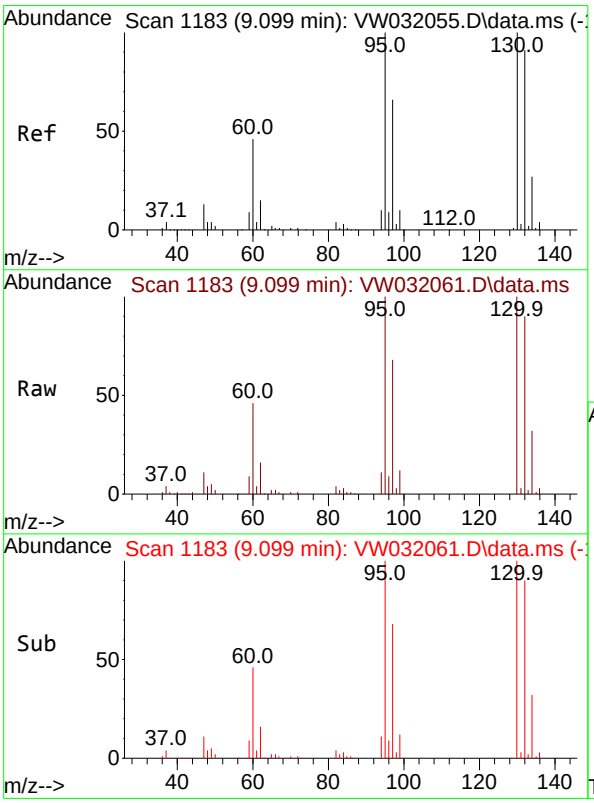

#43
Isopropyl Acetate
Concen: 20.509 ug/l
RT: 8.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion: 43 Resp: 86573

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 30.6 | 23.8 | 35.8 |
| 87 | 14.1 | 11.7 | 17.5 |

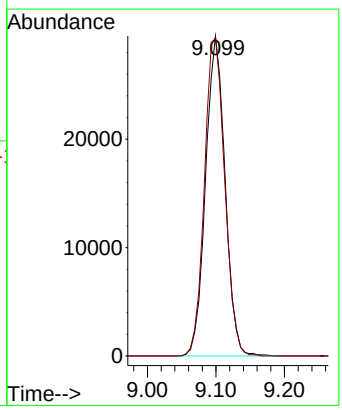


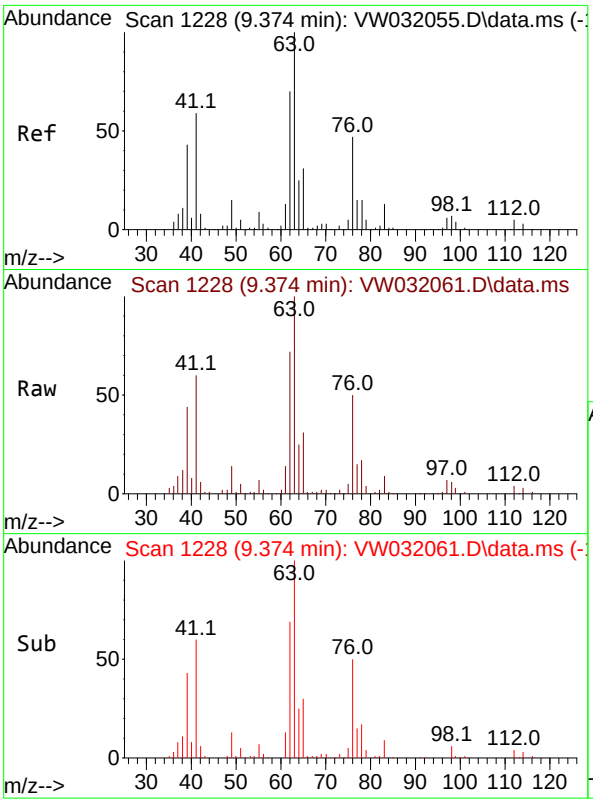




#44
Trichloroethene
Concen: 20.238 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:130 Resp: 58362

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 99.6 | 0.0 | 200.6 |



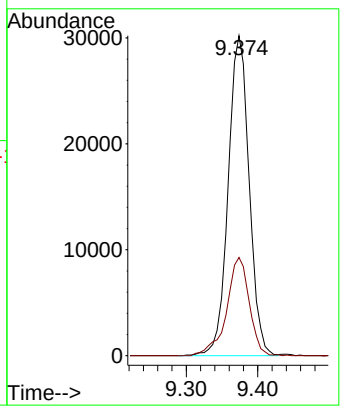


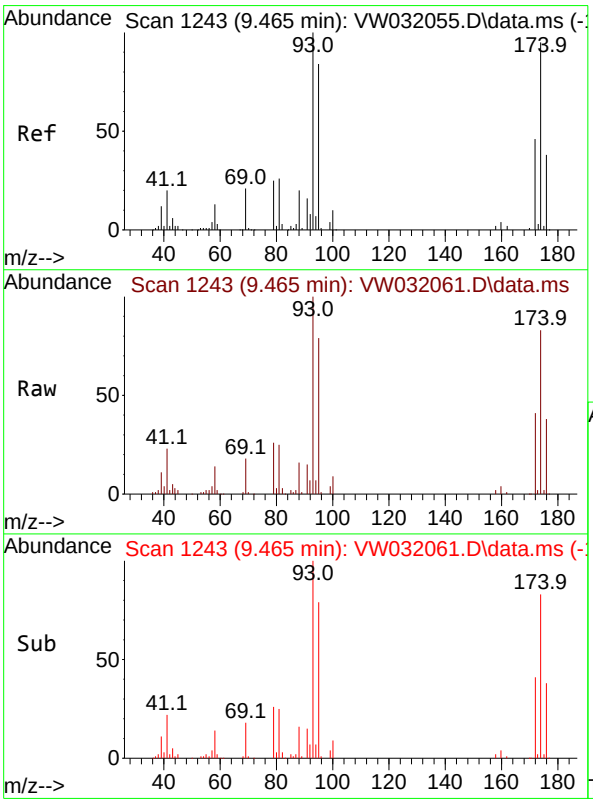

#45
1,2-Dichloropropane
Concen: 20.998 ug/l
RT: 9.374 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion: 63 Resp: 61430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.7 | 24.6 | 36.8 |

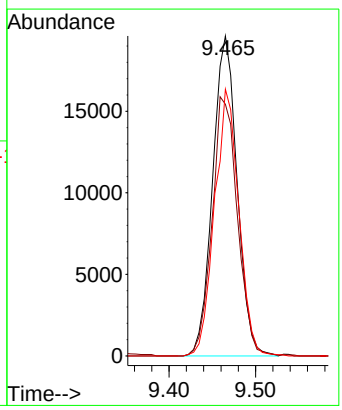


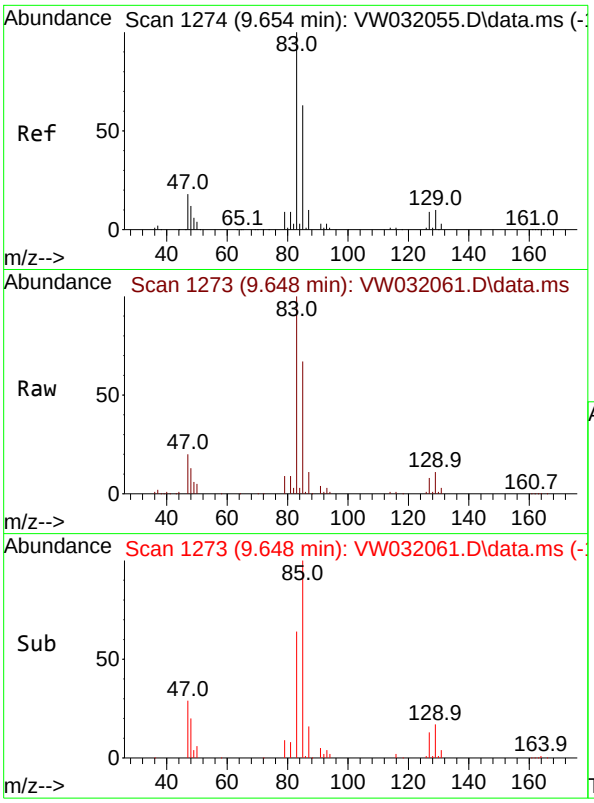




#46
Dibromomethane
Concen: 20.389 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 93 Resp: 38496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 84.1 | 65.3 | 97.9 |
| 174 | 82.6 | 68.6 | 102.8 |



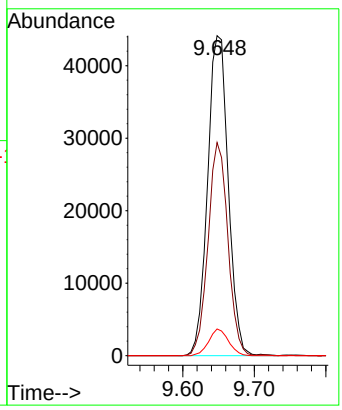


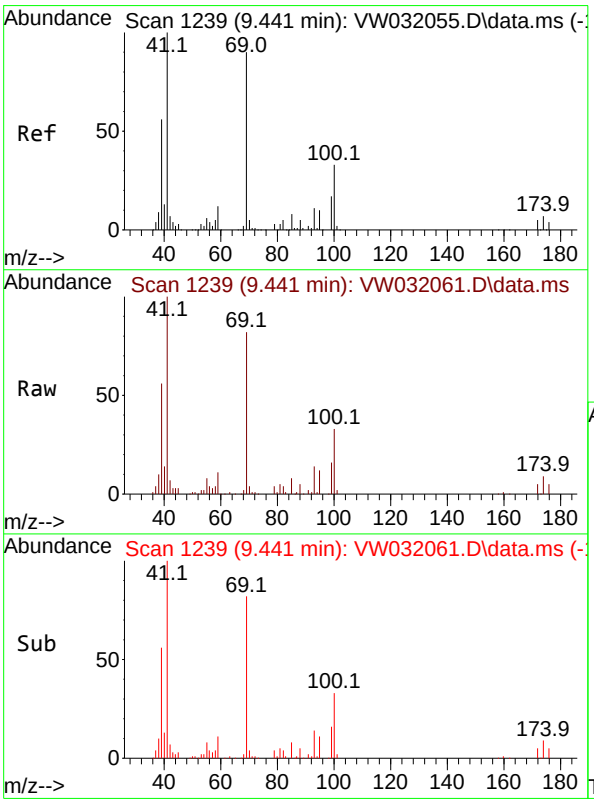

#47
Bromodichloromethane
Concen: 20.356 ug/l
RT: 9.648 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion: 83 Resp: 88565

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 66.6 | 50.6 | 75.8 |
| 127 | 8.4 | 6.9 | 10.3 |

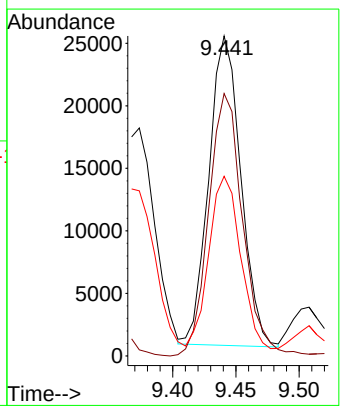


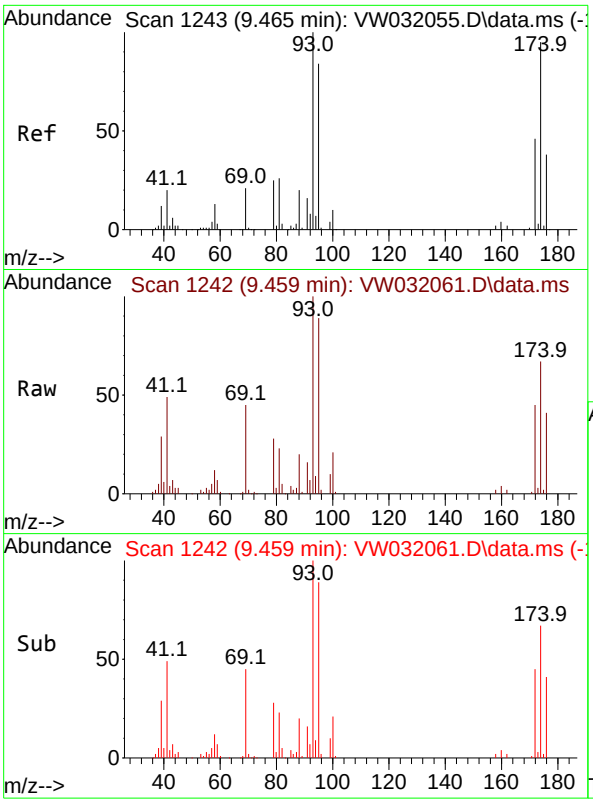




#48
Methyl methacrylate
Concen: 21.354 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 41 Resp: 43518

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 90.8 | 73.0 | 109.6 |
| 39 | 59.7 | 45.0 | 67.4 |



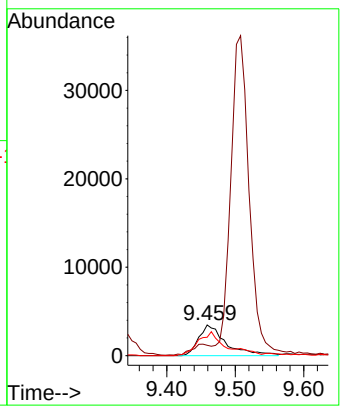


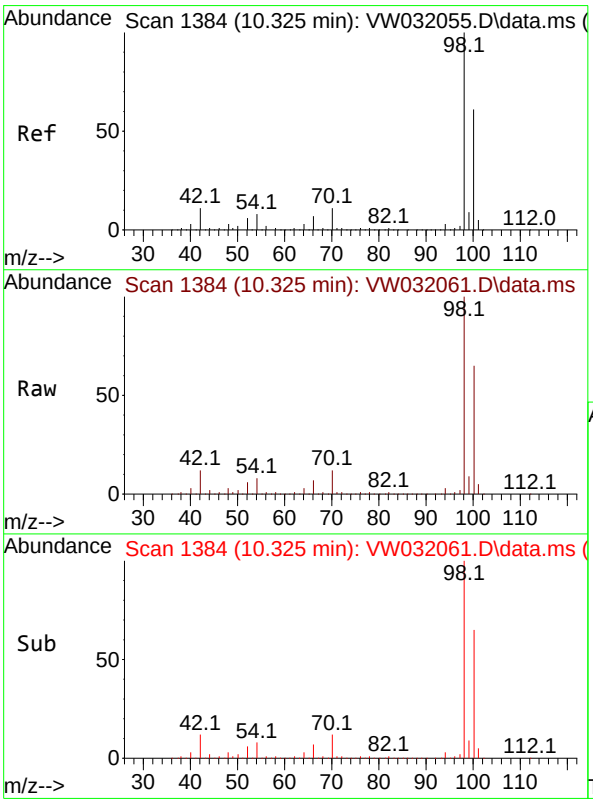

#49
1,4-Dioxane
Concen: 397.829 ug/l
RT: 9.459 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion: 88 Resp: 9712

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 24.9 | 20.6 | 30.8 |
| 58 | 78.3 | 60.4 | 90.6 |

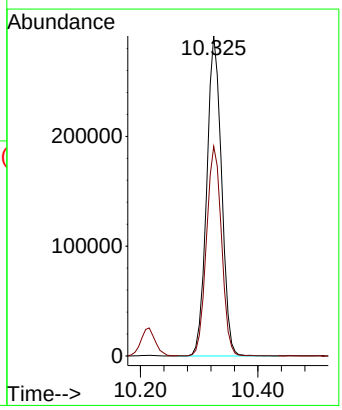


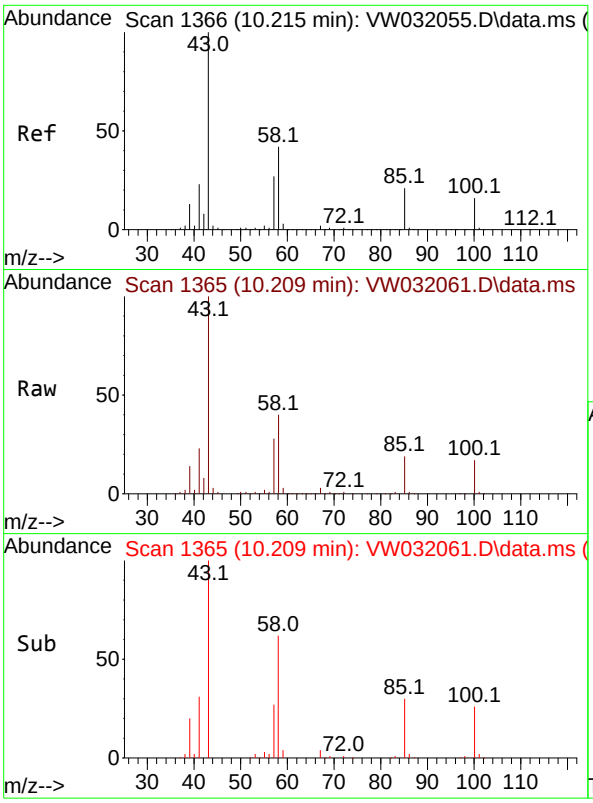




#50
Toluene-d8
Concen: 49.765 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 98 Resp: 508647

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.6 | 51.1 | 76.7 |



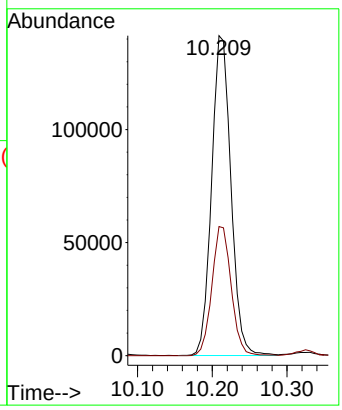


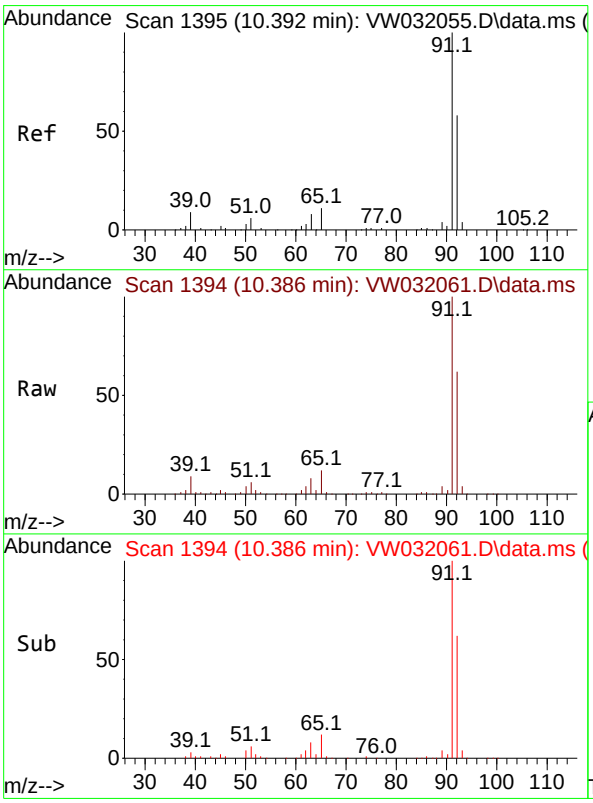

#51
4-Methyl-2-Pentanone
Concen: 106.423 ug/l
RT: 10.209 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion: 43 Resp: 253567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 40.5 | 33.1 | 49.7 |

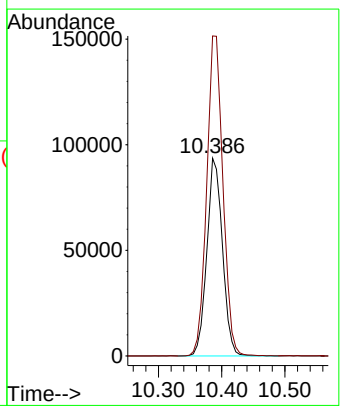


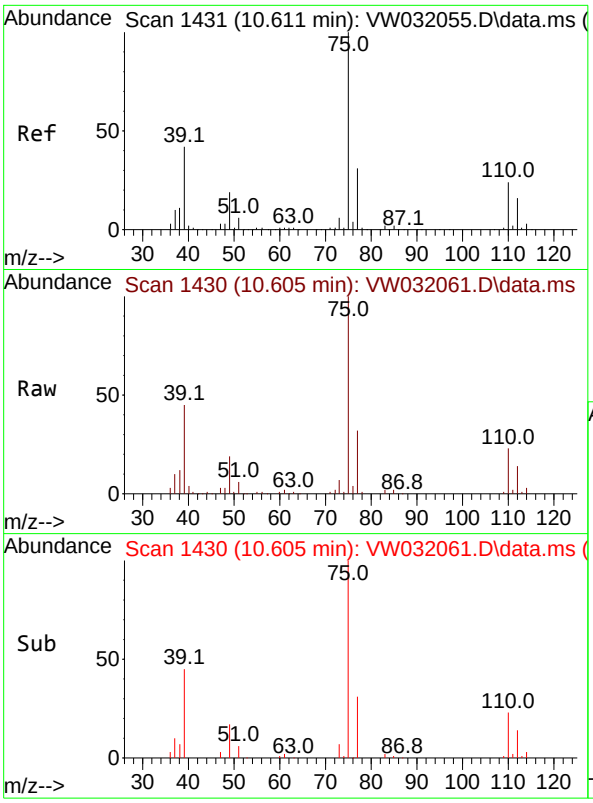




#52
Toluene
Concen: 21.039 ug/l
RT: 10.386 min Scan# 1394
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 92 Resp: 160474

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 168.1 | 136.3 | 204.5 |



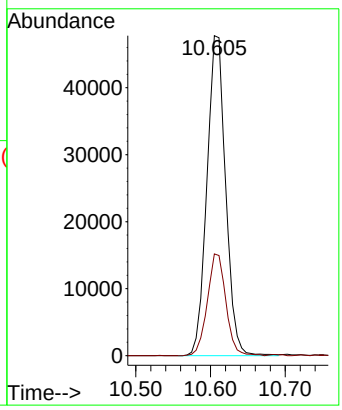


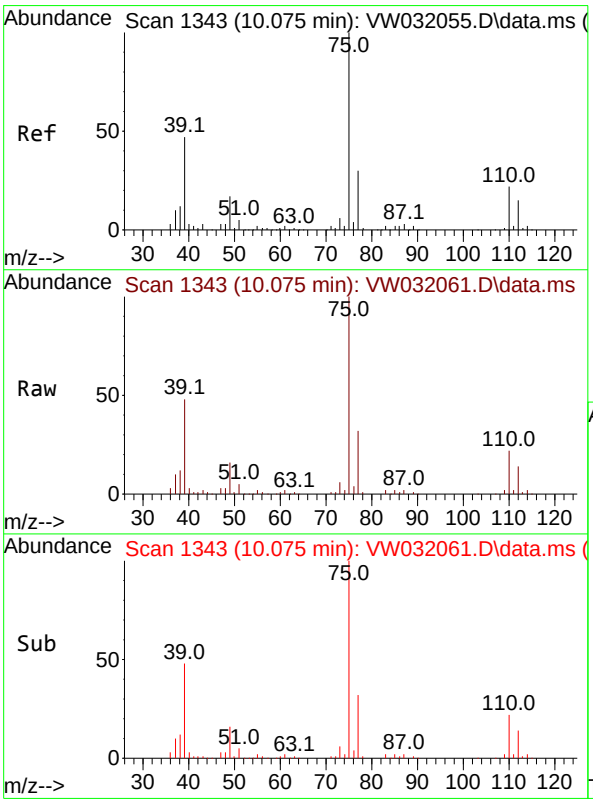

#53
t-1,3-Dichloropropene
Concen: 20.387 ug/l
RT: 10.605 min Scan# 14
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion: 75 Resp: 83098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.8 | 25.0 | 37.6 |

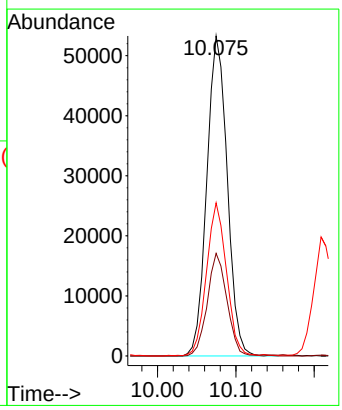


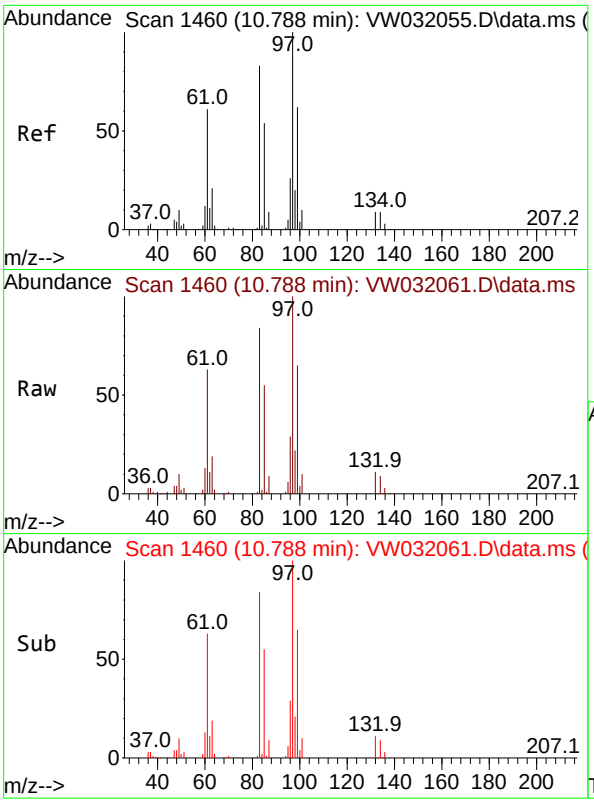




#54
cis-1,3-Dichloropropene
Concen: 20.866 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 75 Resp: 96489

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.1 | 24.0 | 36.0 |
| 39 | 47.7 | 37.8 | 56.8 |



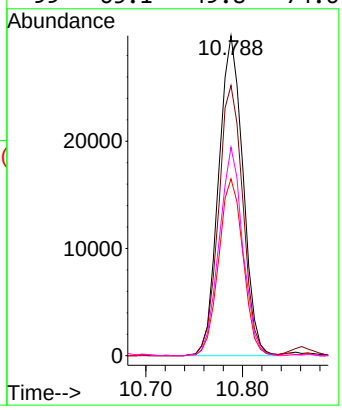


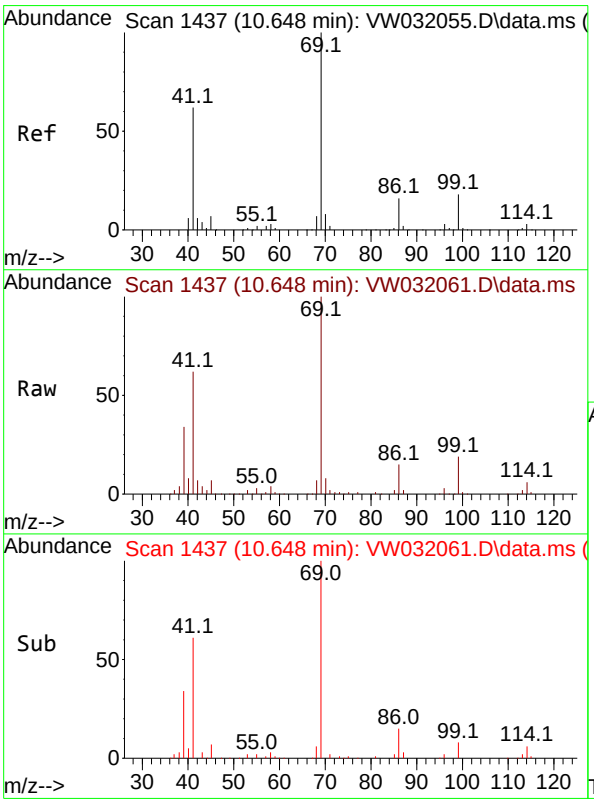

#55
1,1,2-Trichloroethane
Concen: 20.771 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion: 97 Resp: 52115

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 84.4 | 66.4 | 99.6 |
| 85 | 55.2 | 43.1 | 64.7 |
| 99 | 65.1 | 49.8 | 74.6 |

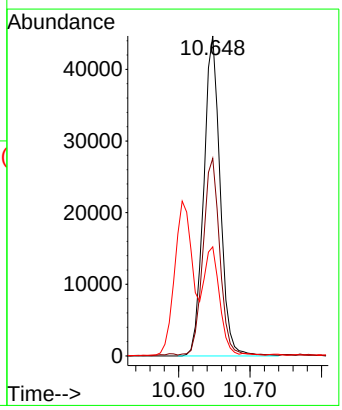


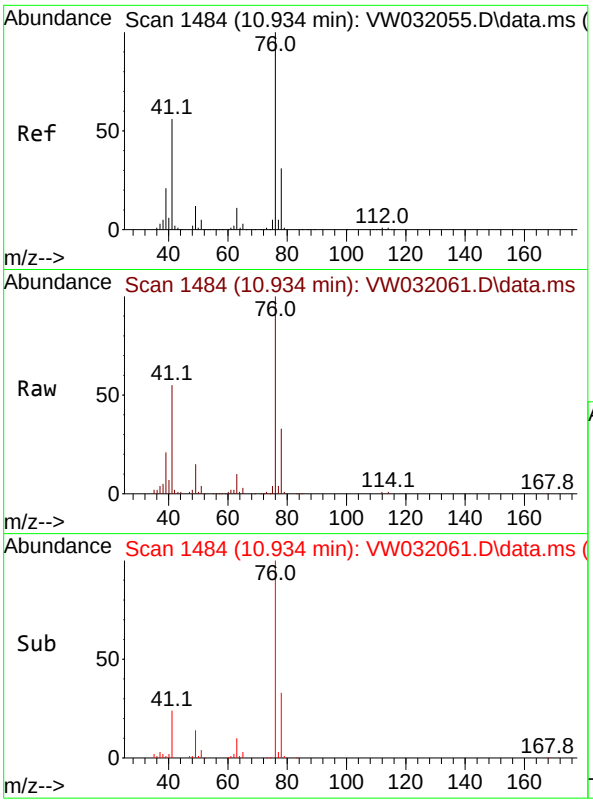




#56
Ethyl methacrylate
Concen: 21.293 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 69 Resp: 71491

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 62.3 | 51.2 | 76.8 |
| 39 | 31.8 | 25.4 | 38.0 |



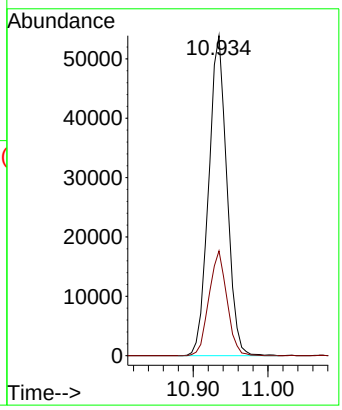


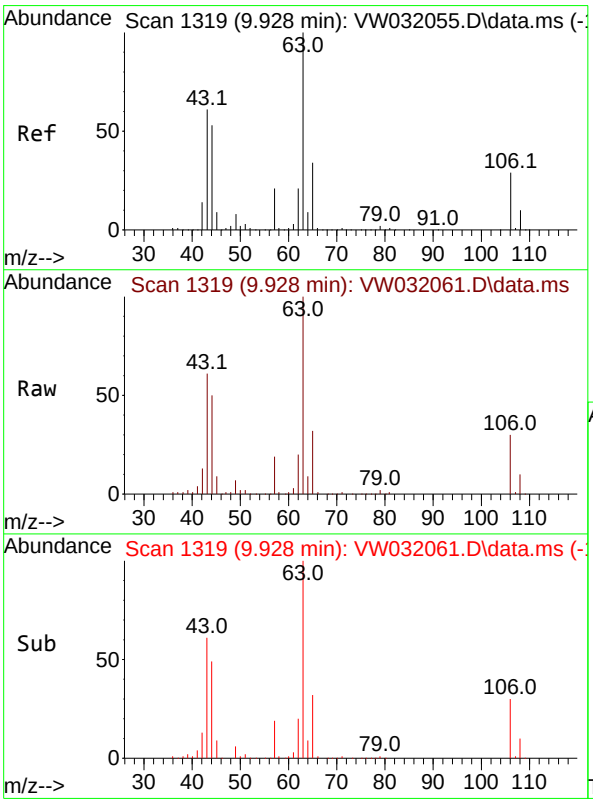

#57
1,3-Dichloropropane
Concen: 20.874 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion: 76 Resp: 91289

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.2 | 25.8 | 38.6 |

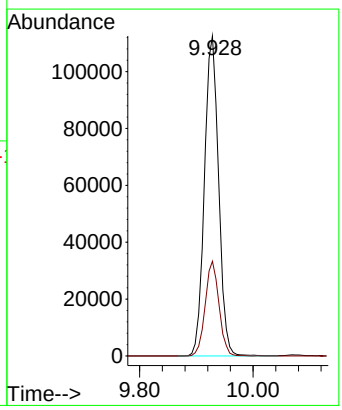


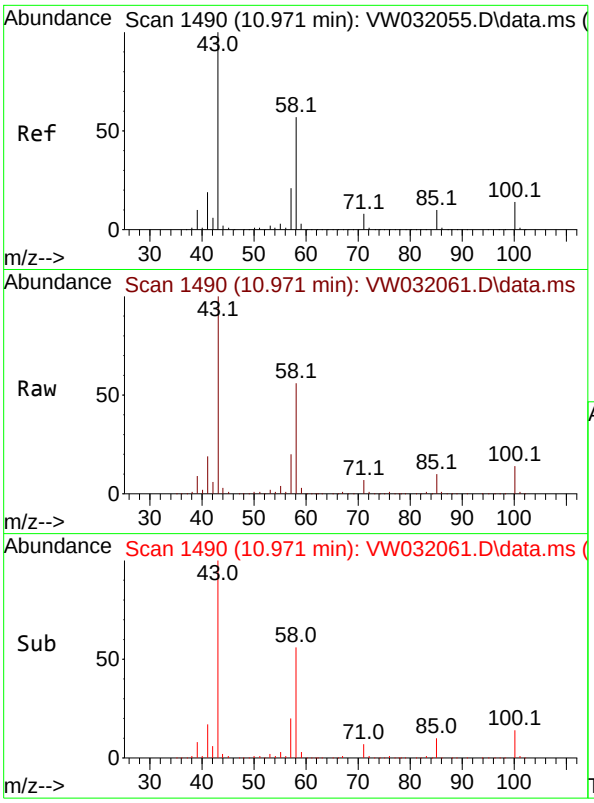




#58
2-Chloroethyl Vinyl ether
Concen: 105.002 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 63 Resp: 195002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 28.7 | 23.5 | 35.3 |



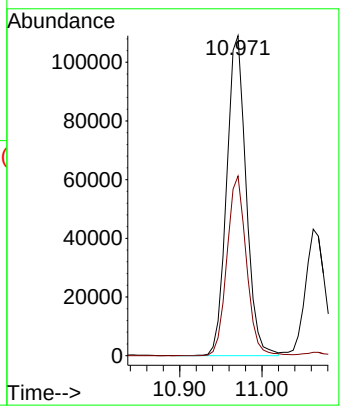


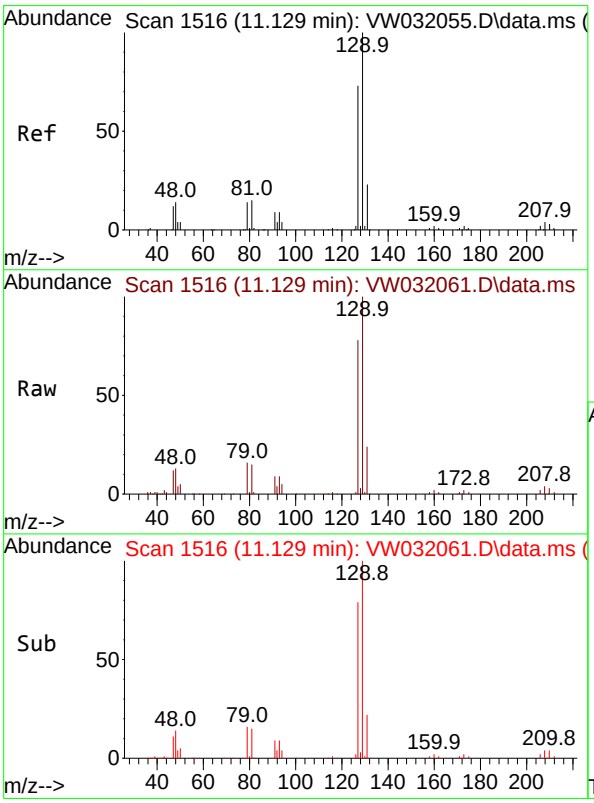

#59
2-Hexanone
Concen: 108.432 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion: 43 Resp: 178926

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 56.2 | 28.3 | 85.0 |

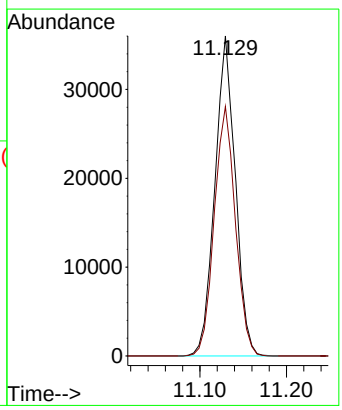


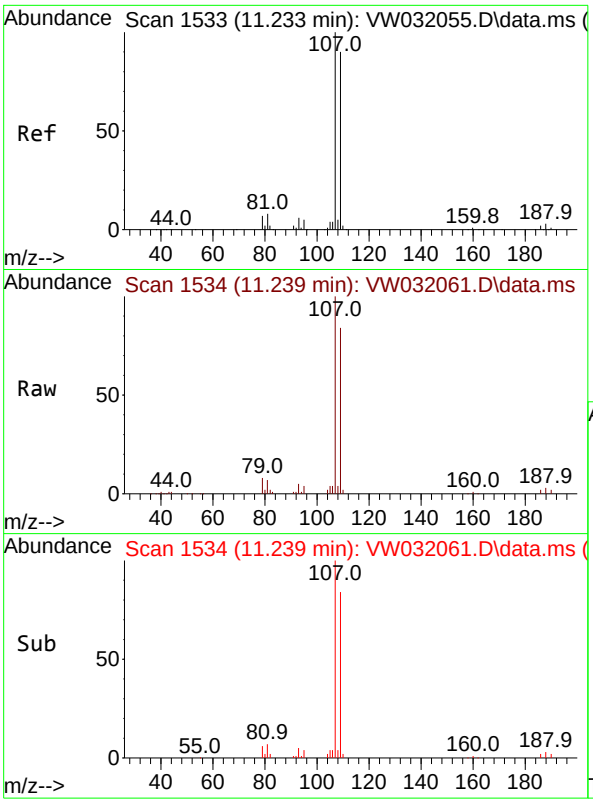




#60
Dibromochloromethane
Concen: 20.578 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:129 Resp: 58977

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 80.9 | 39.0 | 116.9 |



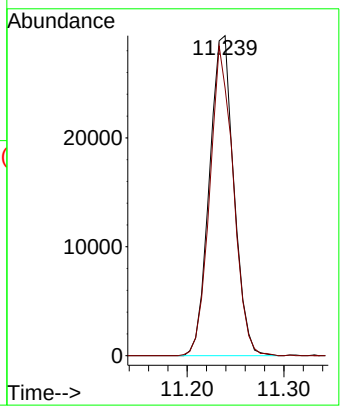


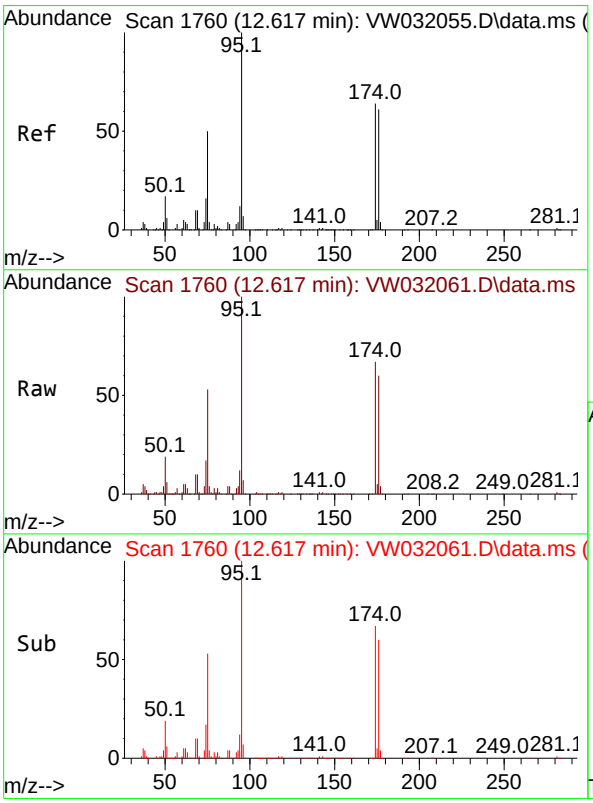

#61
1,2-Dibromoethane
Concen: 21.183 ug/l
RT: 11.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion:107 Resp: 51647

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.1 | 74.2 | 111.4 |

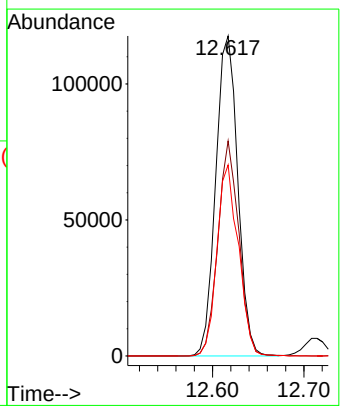


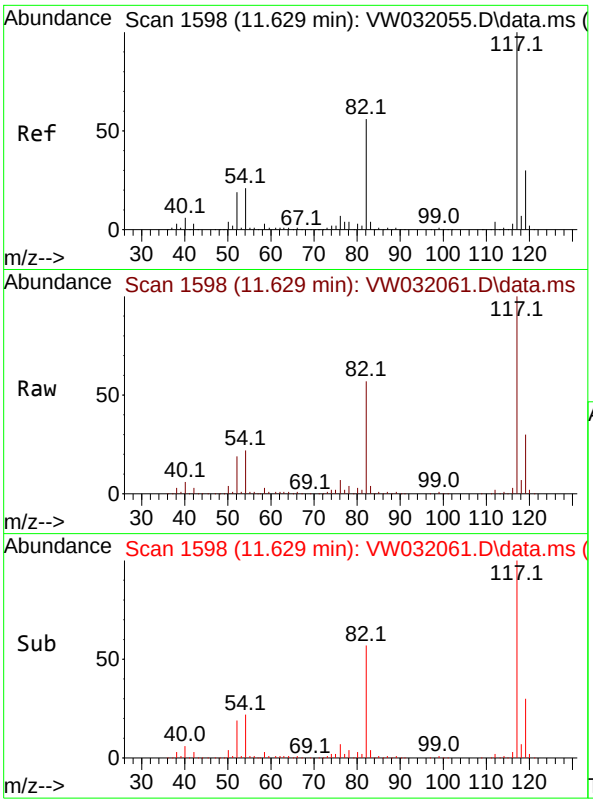




#62
4-Bromofluorobenzene
Concen: 52.373 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 95 Resp: 197267

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 63.9 | 0.0 | 129.0 |
| 176 | 58.2 | 0.0 | 124.6 |



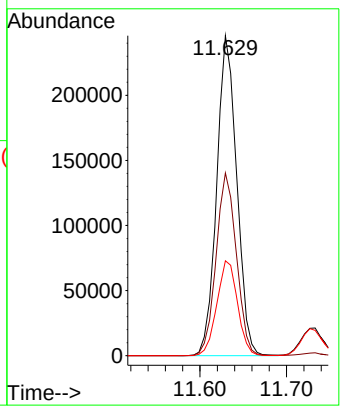


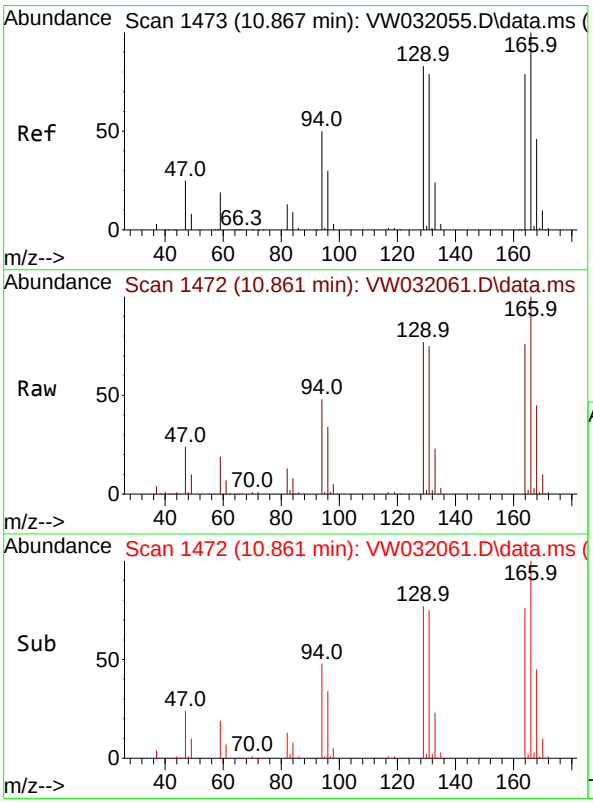

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion:117 Resp: 394820

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.1 | 45.0 | 67.4 |
| 119 | 29.7 | 24.2 | 36.4 |

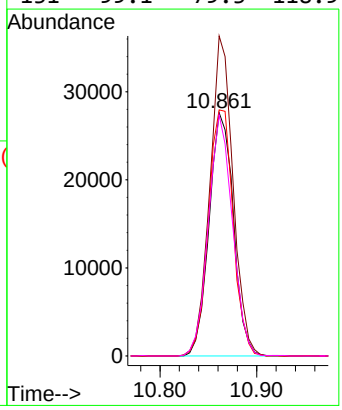


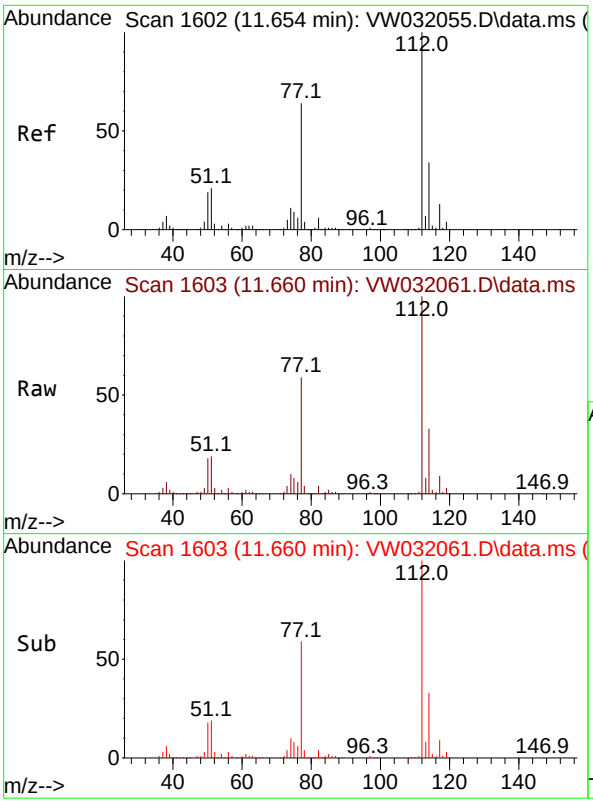




#64
Tetrachloroethene
Concen: 21.074 ug/l
RT: 10.861 min Scan# 1472
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:164 Resp: 48059

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 131.6 | 100.9 | 151.3 |
| 129 | 101.2 | 83.6 | 125.4 |
| 131 | 99.1 | 79.3 | 118.9 |



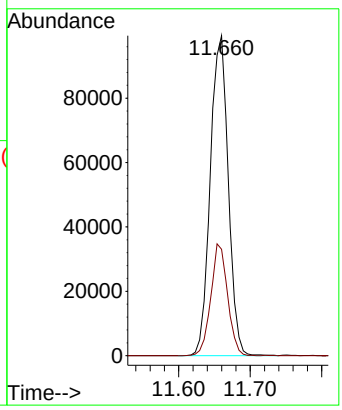


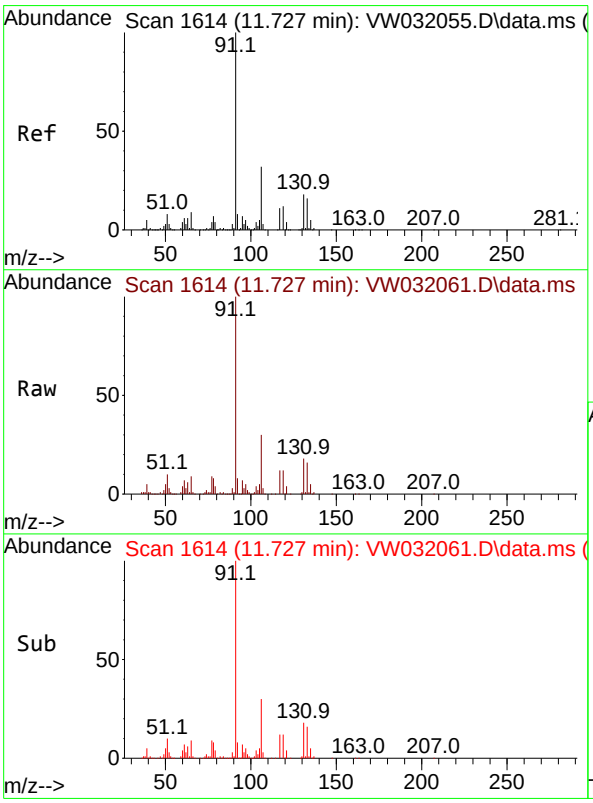

#65
Chlorobenzene
Concen: 20.189 ug/l
RT: 11.660 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion:112 Resp: 173499

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 33.2 | 26.9 | 40.3 |

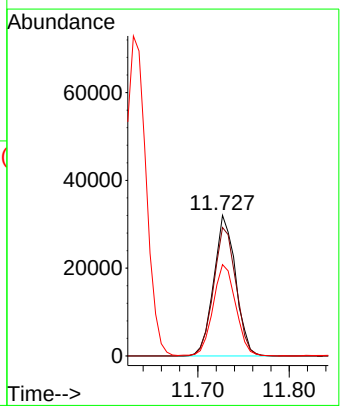


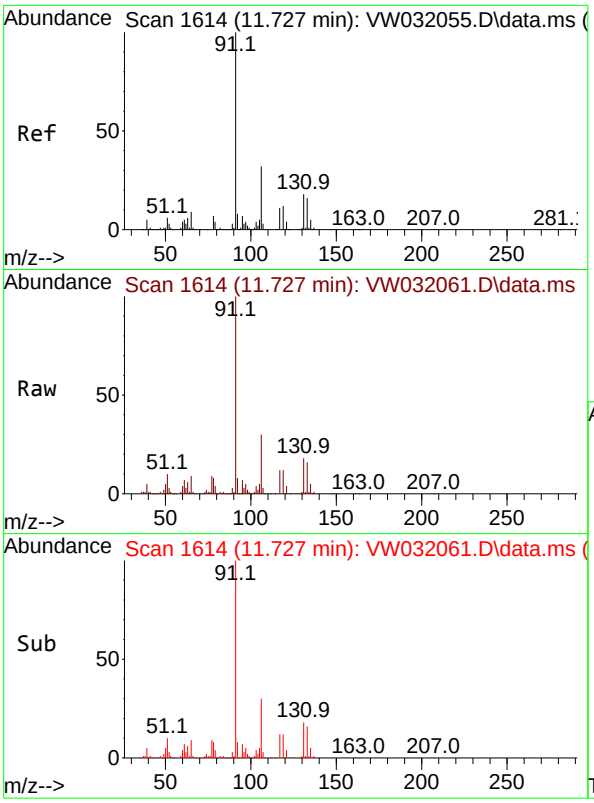




#66
1,1,1,2-Tetrachloroethane
Concen: 19.910 ug/l
RT: 11.727 min Scan# 1614
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:131 Resp: 53383

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 93.9 | 47.3 | 142.0 |
| 119 | 67.5 | 34.5 | 103.5 |



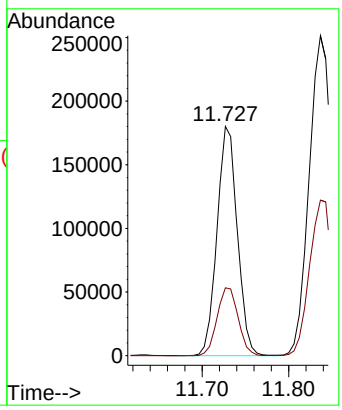


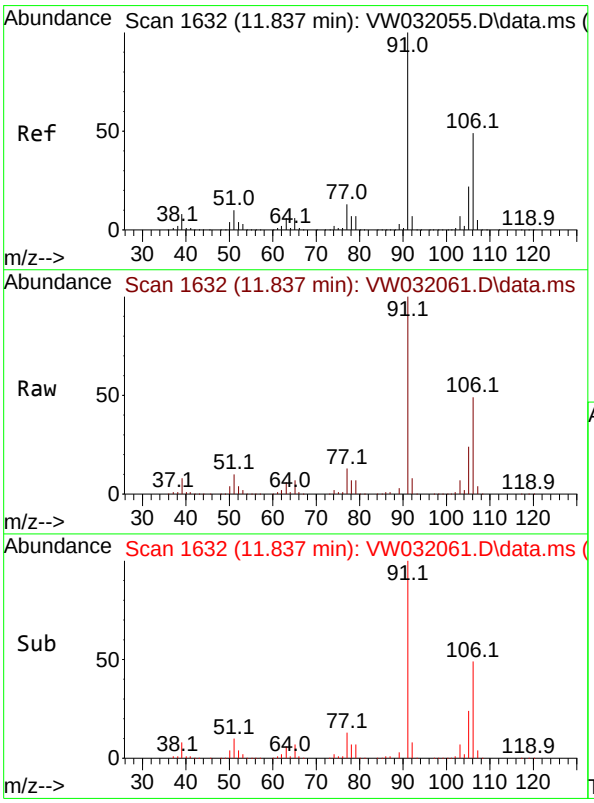

#67
Ethyl Benzene
Concen: 20.129 ug/l
RT: 11.727 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion: 91 Resp: 293010

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.6 | 25.4 | 38.0 |

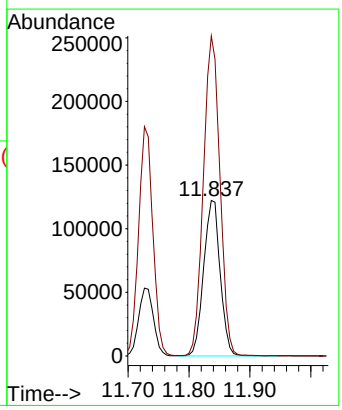


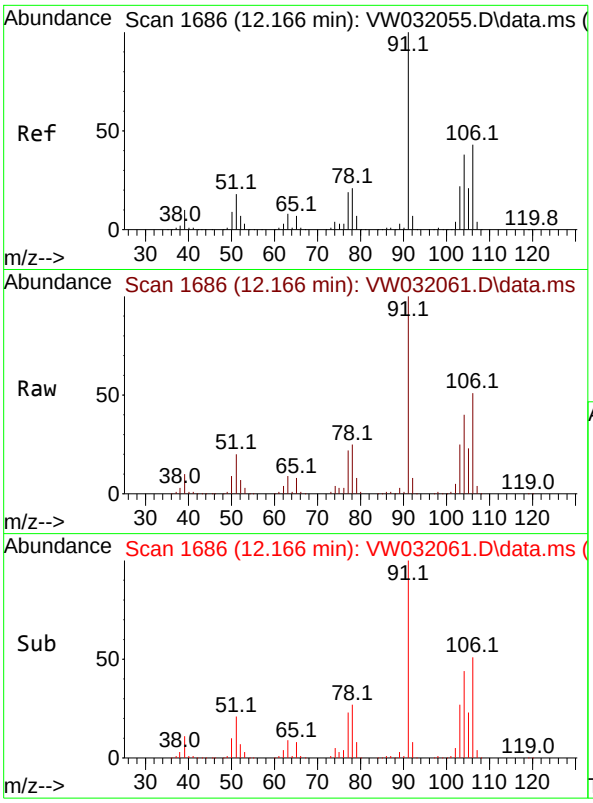




#68
m/p-Xylenes
Concen: 40.901 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:106 Resp: 229740

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 206.5 | 162.2 | 243.2 |



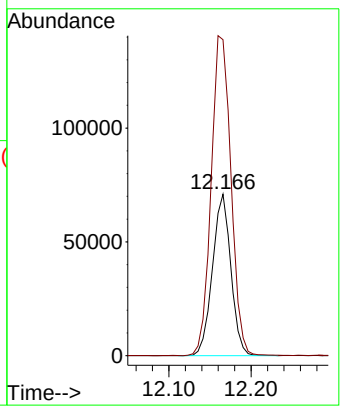


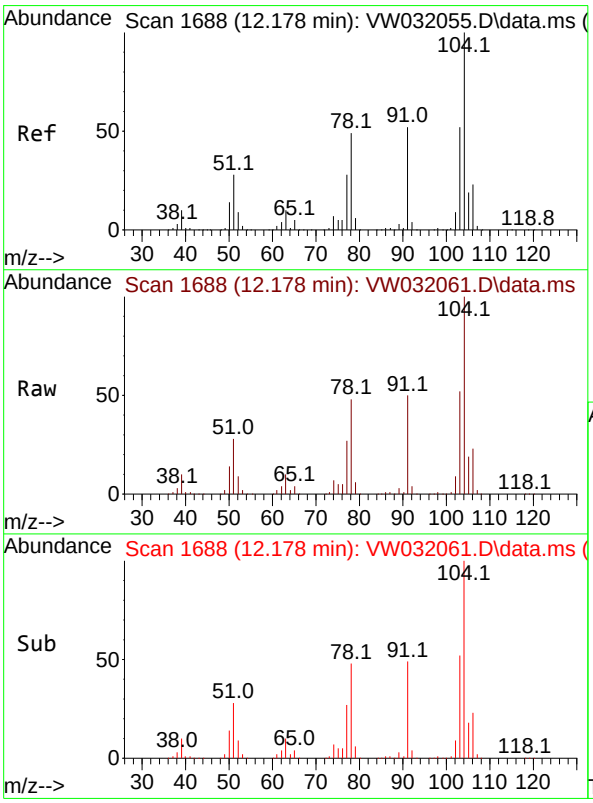

#69
o-Xylene
Concen: 21.194 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion:106 Resp: 110031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 214.2 | 110.8 | 332.3 |

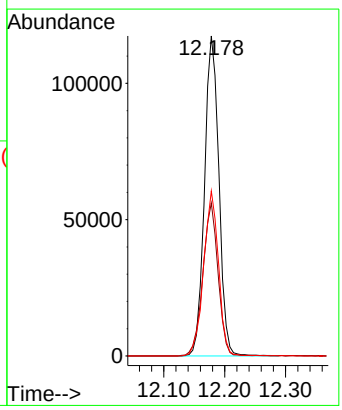


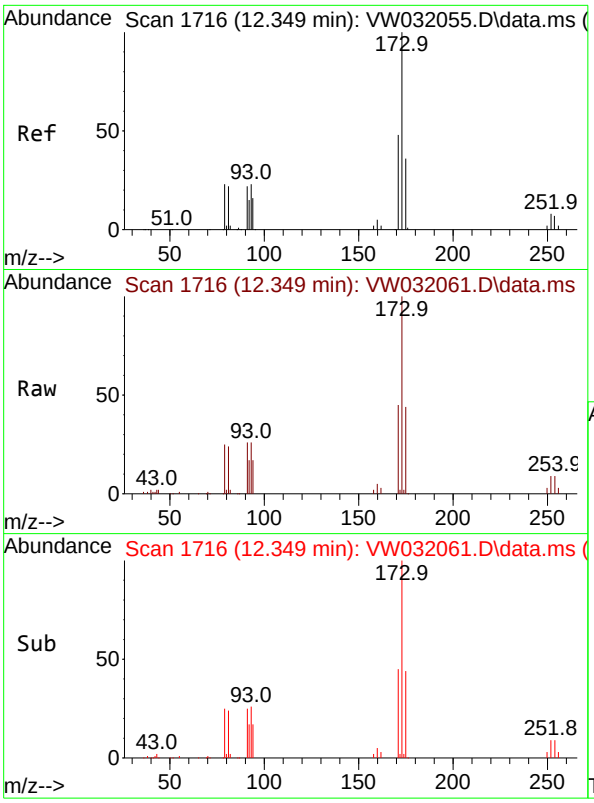




#70
Styrene
Concen: 20.893 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:104 Resp: 192666

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 50.5 | 41.2 | 61.8 |
| 103 | 53.3 | 43.8 | 65.8 |



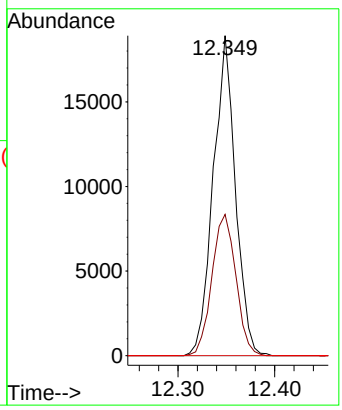


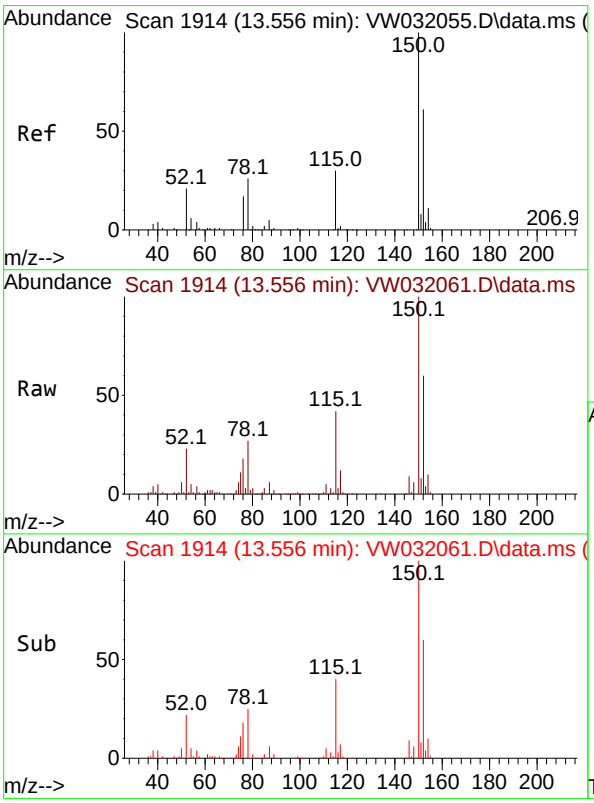

#71
Bromoform
Concen: 19.630 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion:173 Resp: 30108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.7 | 22.9 | 68.7 |
| 254 | 0.0 | 0.0 | 0.0 |

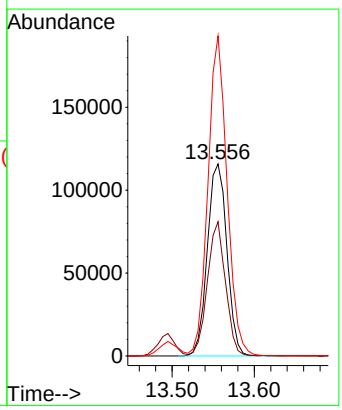


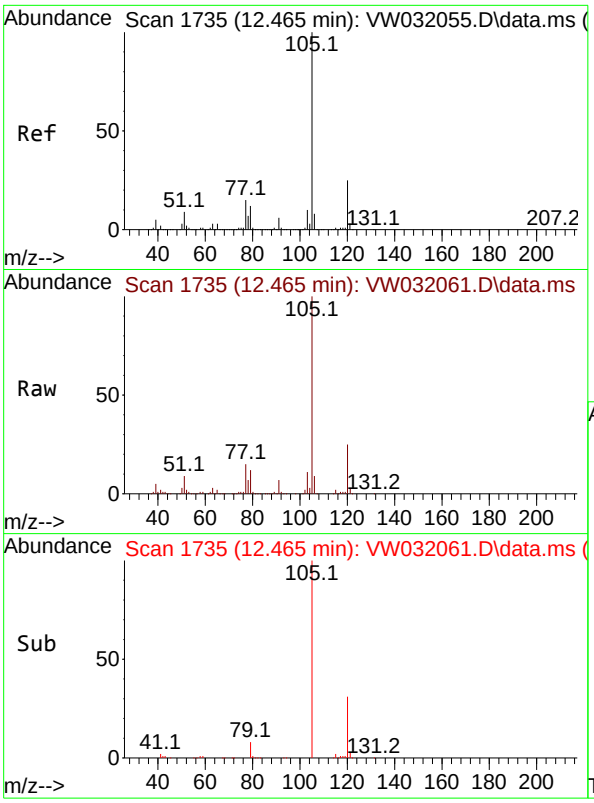




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:152 Resp: 191594

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 65.1 | 32.6 | 97.8 |
| 150 | 162.6 | 0.0 | 359.4 |



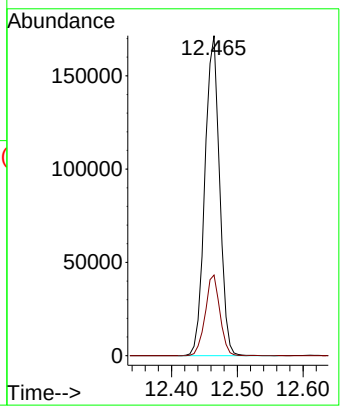


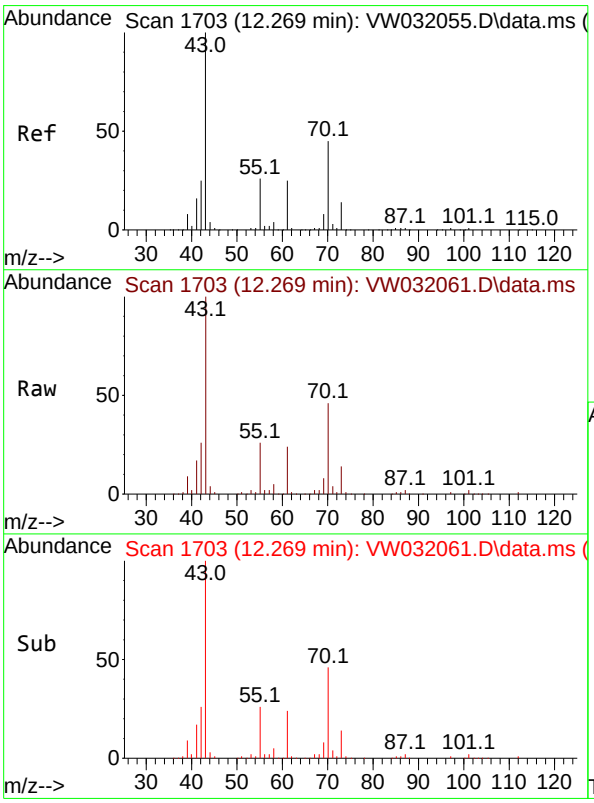

#73
Isopropylbenzene
Concen: 19.925 ug/l
RT: 12.465 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion:105 Resp: 266790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.0 | 12.8 | 38.4 |

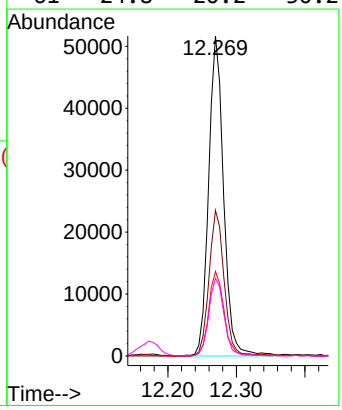


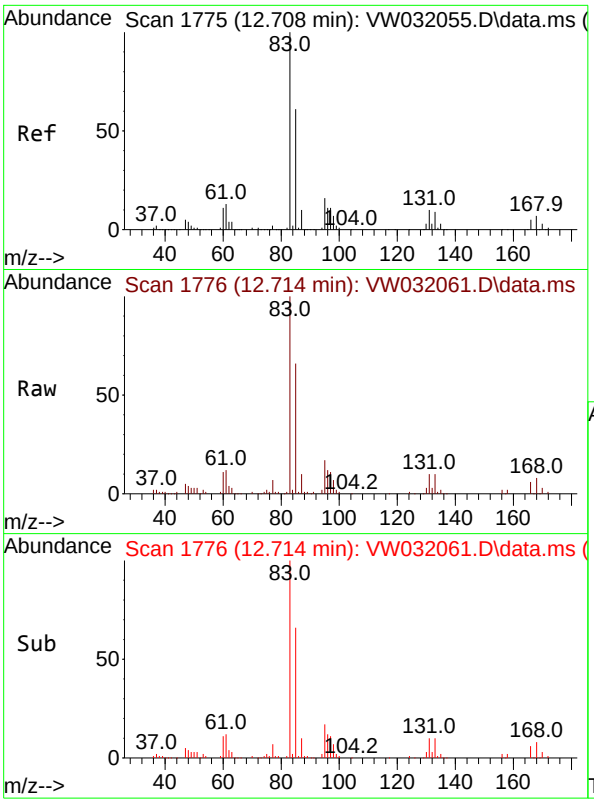




#74
N-amyl acetate
Concen: 20.526 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 43 Resp: 78852

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 45.7 | 37.0 | 55.4 |
| 55 | 27.3 | 21.1 | 31.7 |
| 61 | 24.8 | 20.2 | 30.2 |



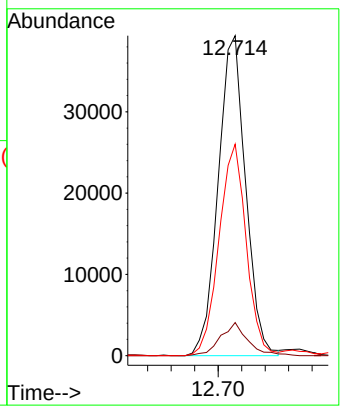


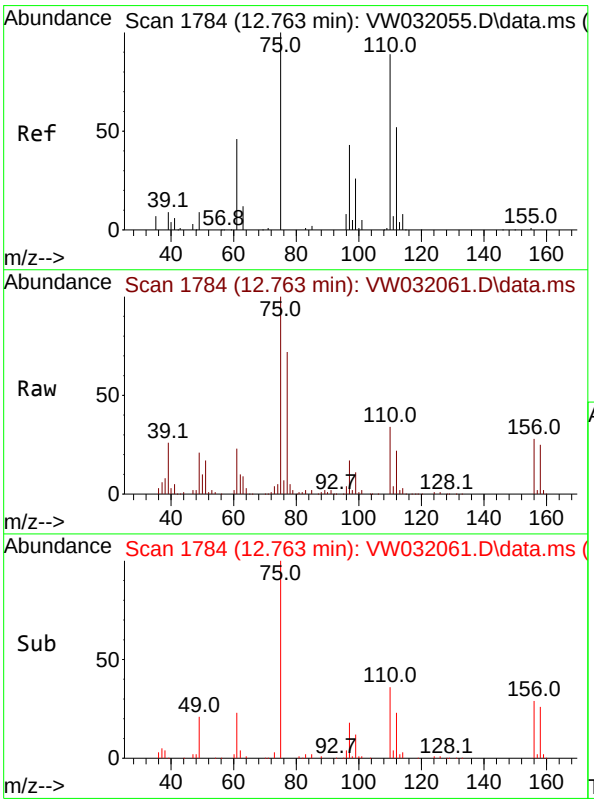

#75
1,1,2,2-Tetrachloroethane
Concen: 20.118 ug/l
RT: 12.714 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion: 83 Resp: 63958

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.3 | 5.1 | 15.4 |
| 85 | 65.4 | 32.2 | 96.6 |

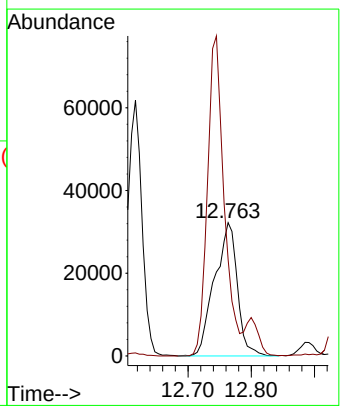


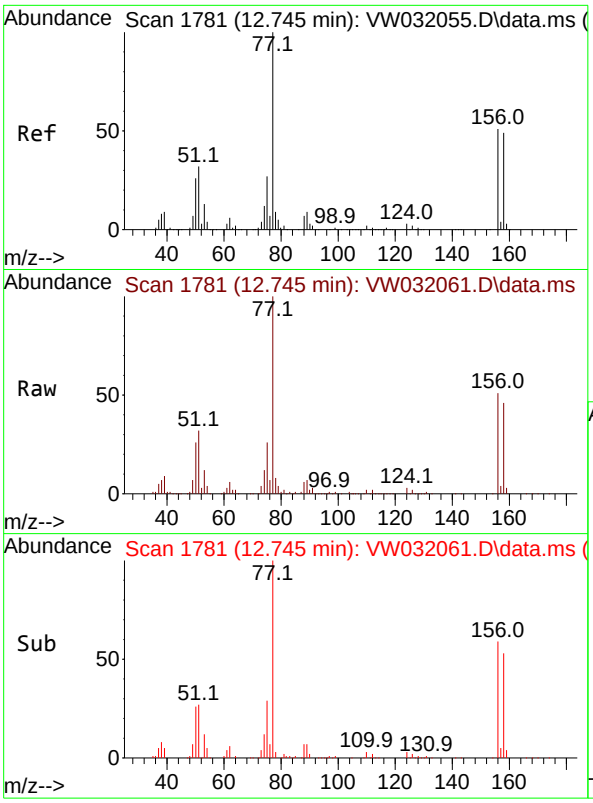




#76
1,2,3-Trichloropropane
Concen: 30.894 ug/l
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 75 Resp: 80336

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 175.6 | 123.5 | 370.5 |



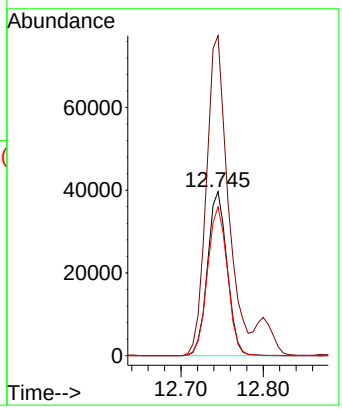


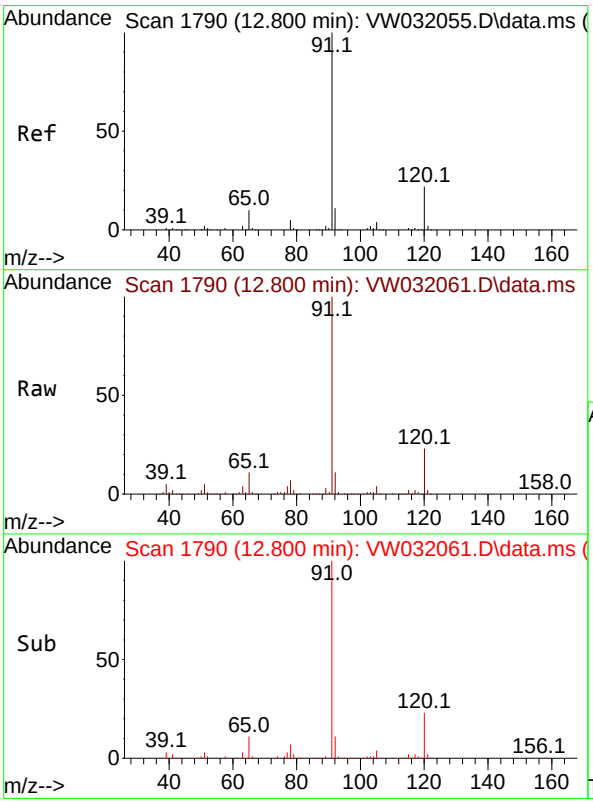

#77
Bromobenzene
Concen: 20.423 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion:156 Resp: 65314

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 216.0 | 108.7 | 326.3 |
| 158 | 93.1 | 48.3 | 144.9 |

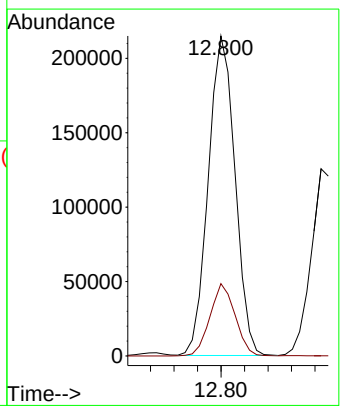


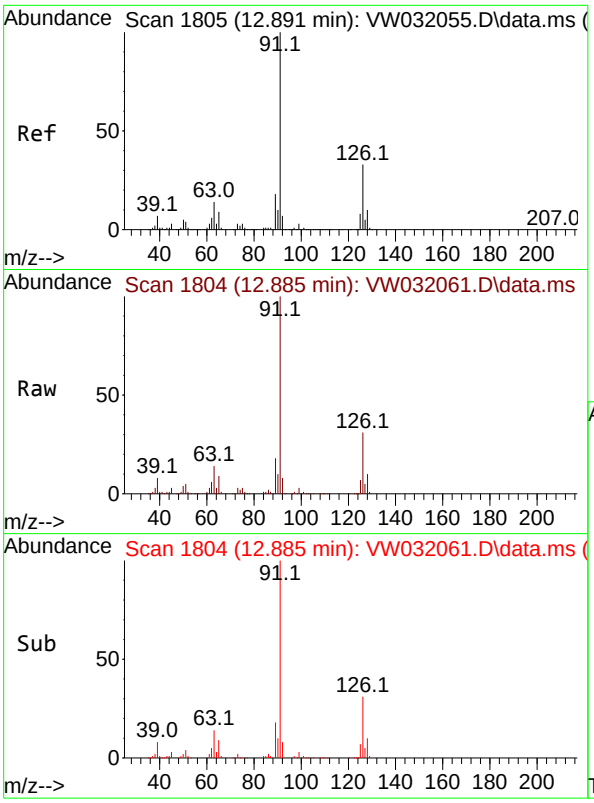




#78
n-propylbenzene
Concen: 20.616 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 91 Resp: 339857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 21.3 | 11.1 | 33.3 |



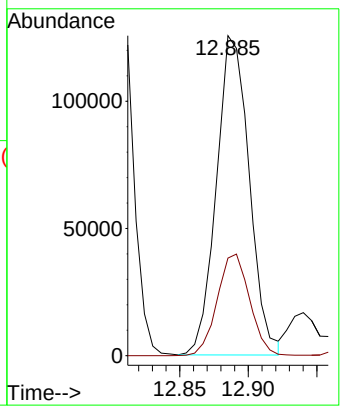


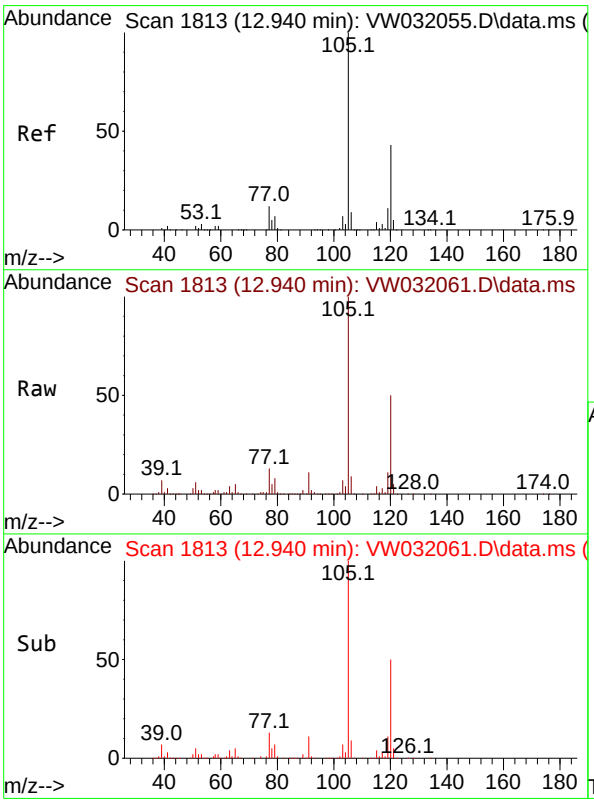

#79
2-Chlorotoluene
Concen: 20.570 ug/l
RT: 12.885 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion: 91 Resp: 209277

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.5 | 15.9 | 47.7 |

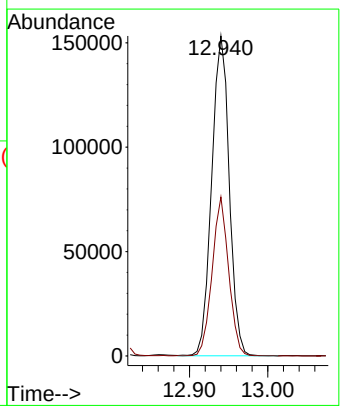


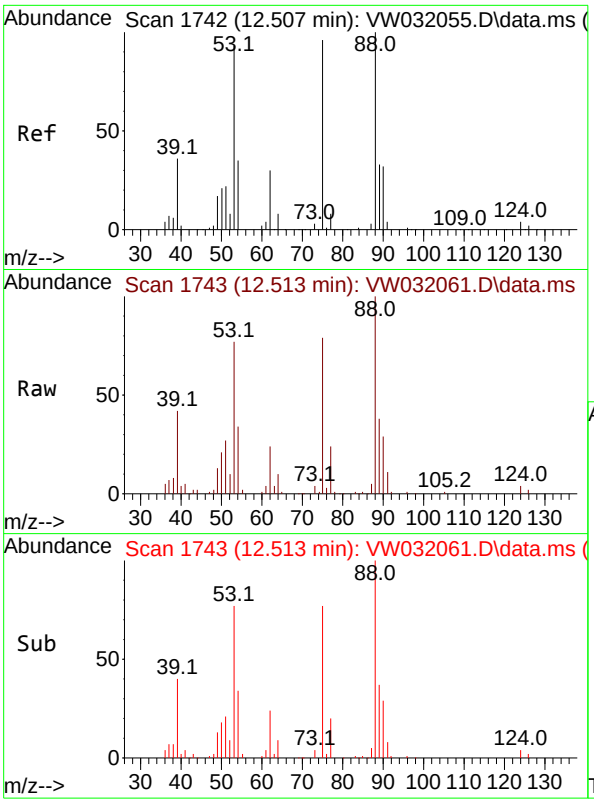




#80
1,3,5-Trimethylbenzene
Concen: 20.975 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:105 Resp: 238429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.0 | 23.4 | 70.0 |



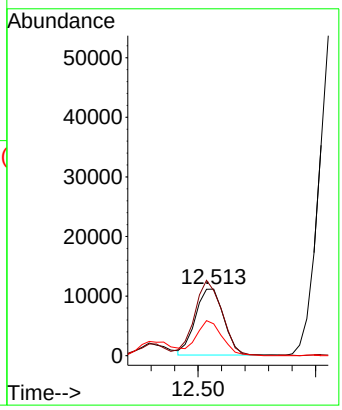


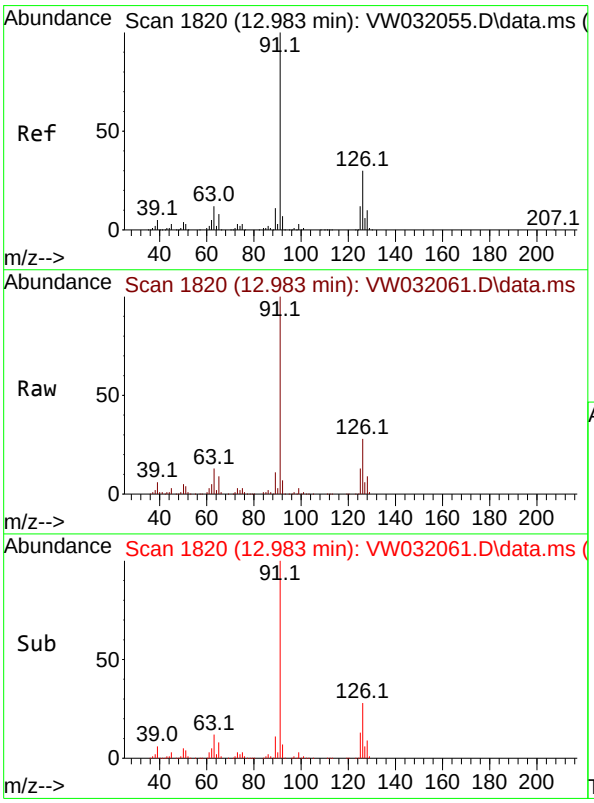

#81
trans-1,4-Dichloro-2-butene
Concen: 18.484 ug/l
RT: 12.513 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion: 75 Resp: 18566

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 113.2 | 81.0 | 121.6 |
| 89 | 47.5 | 37.3 | 55.9 |

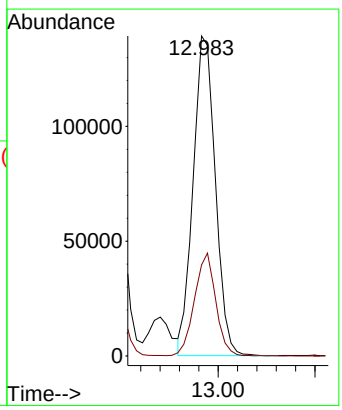


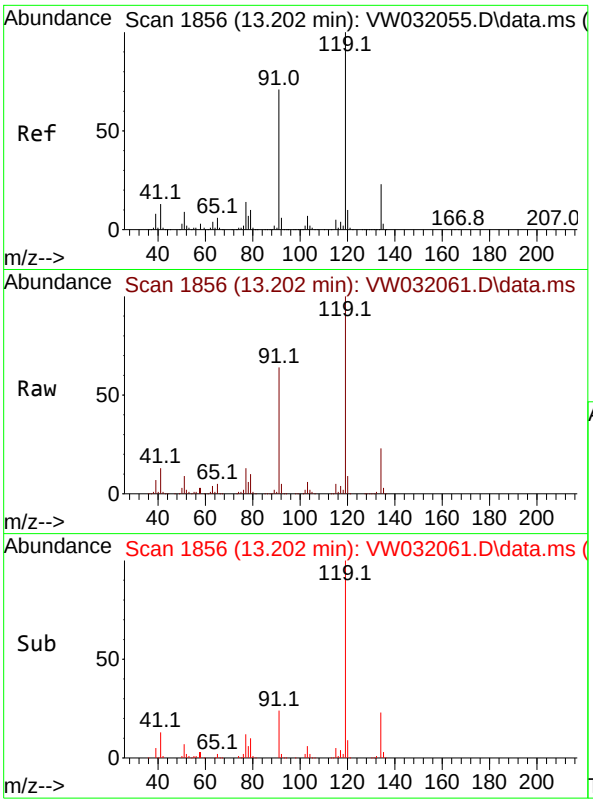




#82
4-Chlorotoluene
Concen: 20.547 ug/l
RT: 12.983 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 91 Resp: 222101

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 30.9 | 15.5 | 46.5 |



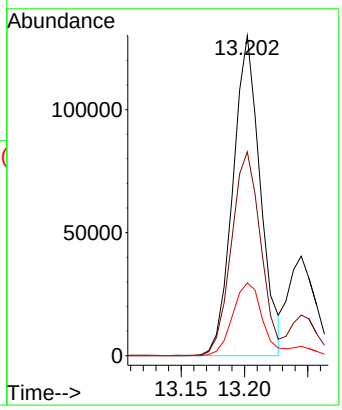


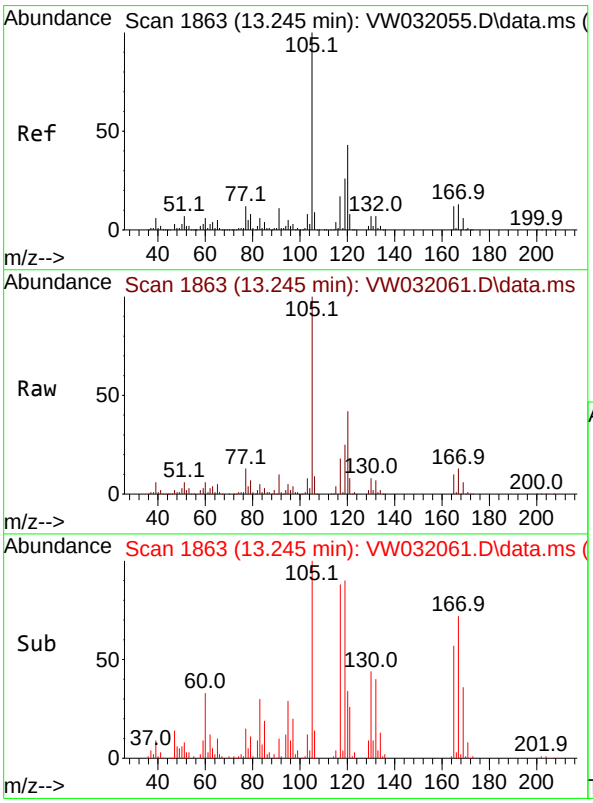

#83
tert-Butylbenzene
Concen: 20.817 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion:119 Resp: 196393

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 67.6 | 35.3 | 105.9 |
| 134 | 24.6 | 12.1 | 36.3 |

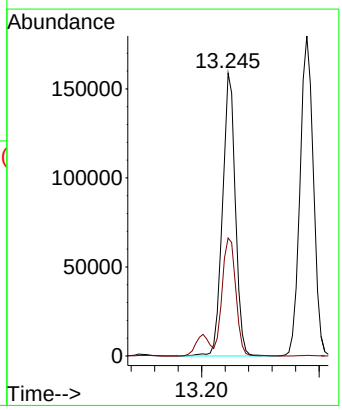


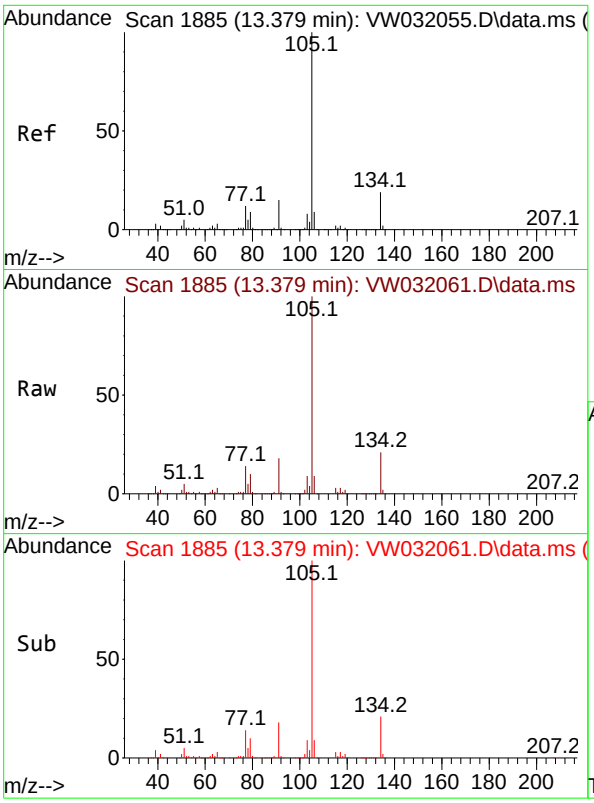




#84
1,2,4-Trimethylbenzene
Concen: 20.878 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:105 Resp: 241596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.0 | 21.6 | 64.8 |



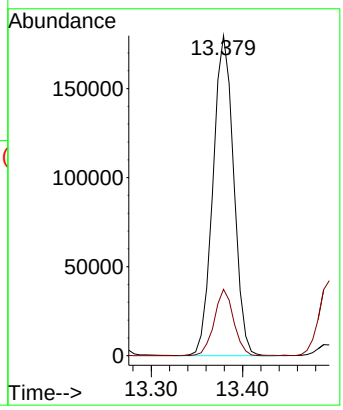


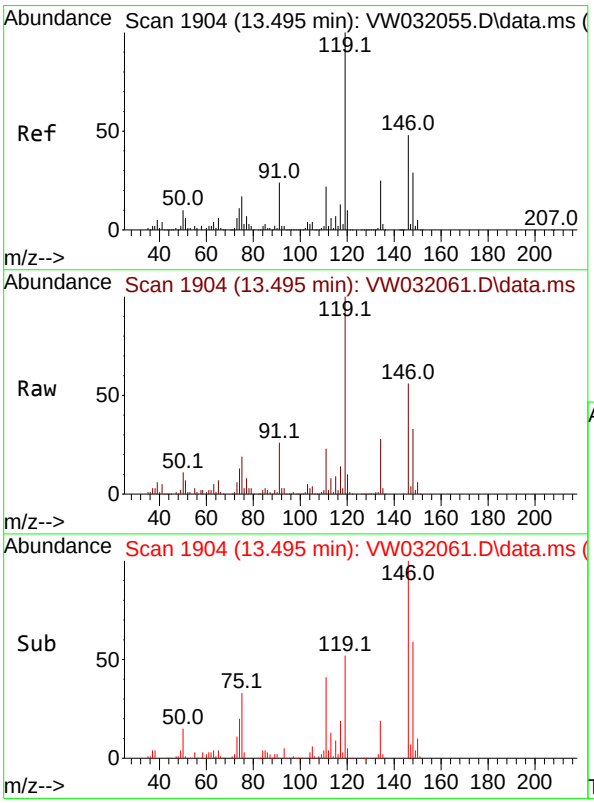

#85
sec-Butylbenzene
Concen: 19.818 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion:105 Resp: 282666

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.4 | 9.9 | 29.7 |

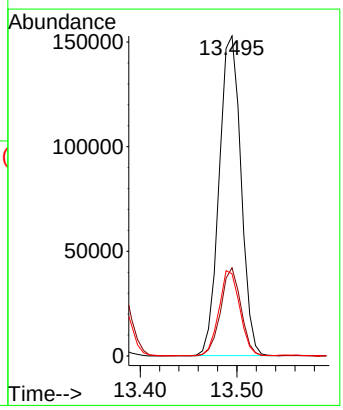


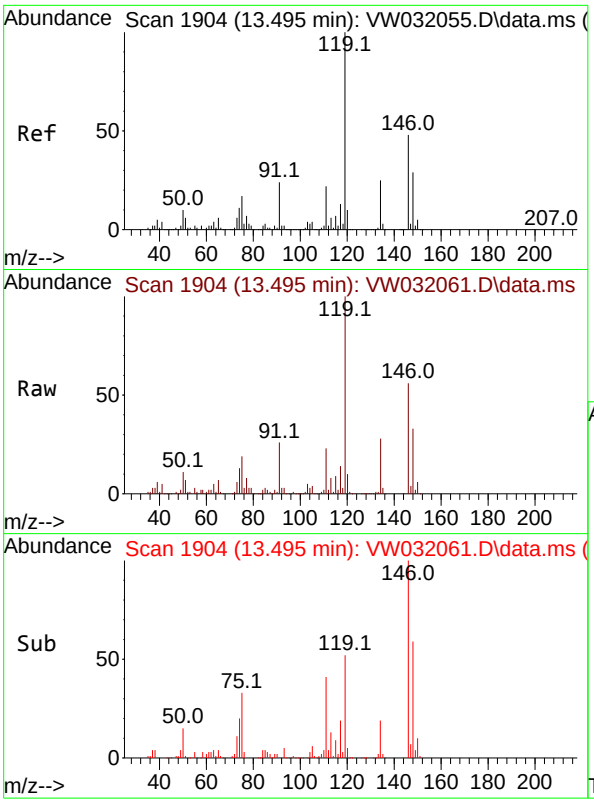




#86
p-Isopropyltoluene
Concen: 20.078 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:119 Resp: 238749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.7 | 12.4 | 37.0 |
| 91 | 25.5 | 12.1 | 36.3 |



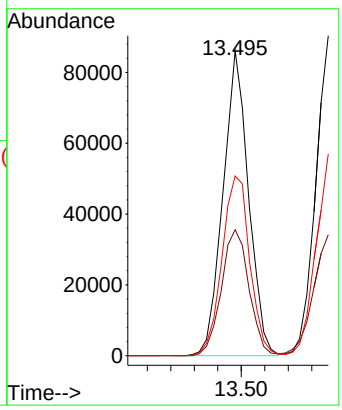


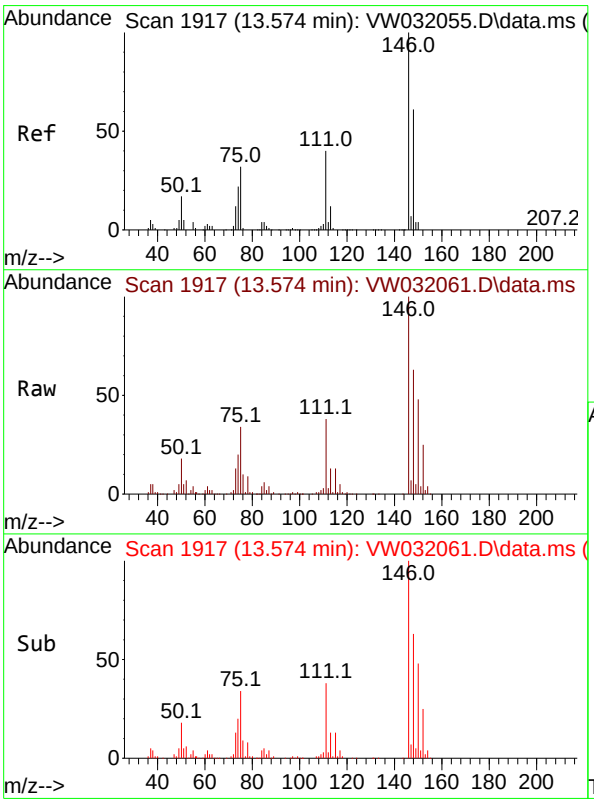

#87
1,3-Dichlorobenzene
Concen: 20.364 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion:146 Resp: 129585

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.7 | 21.2 | 63.6 |
| 148 | 64.2 | 30.3 | 90.8 |

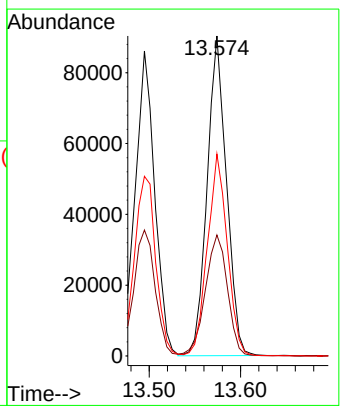


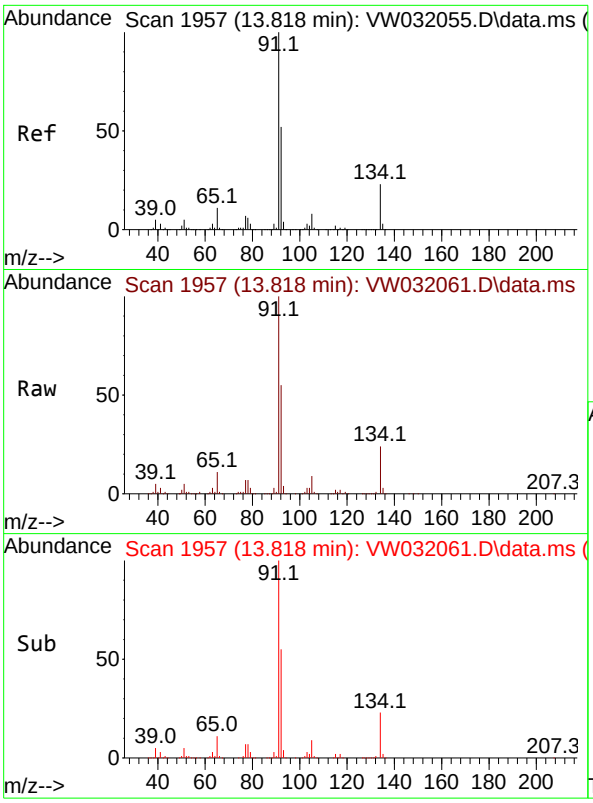




#88
1,4-Dichlorobenzene
Concen: 20.677 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:146 Resp: 132968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.3 | 21.6 | 64.6 |
| 148 | 64.6 | 32.0 | 96.2 |



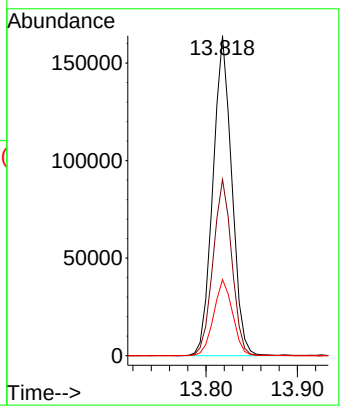


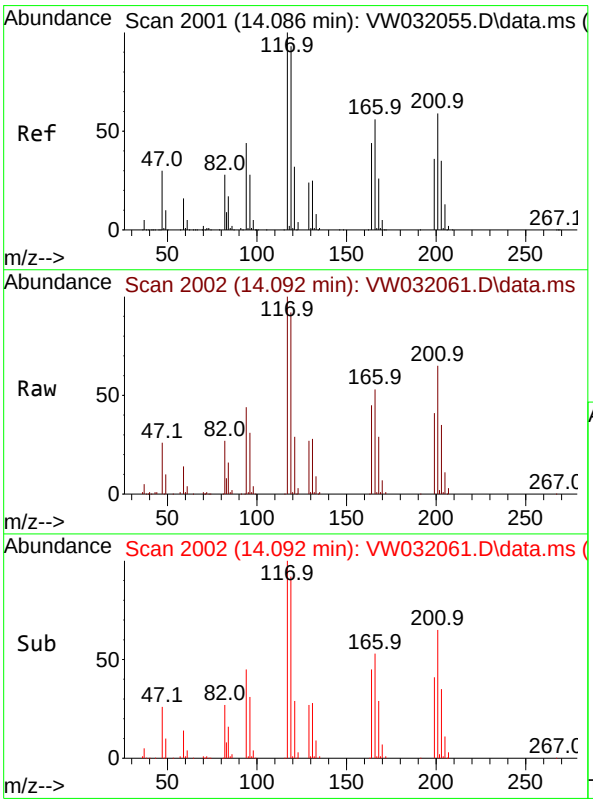

#89
n-Butylbenzene
Concen: 20.377 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion: 91 Resp: 235392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.8 | 26.7 | 80.1 |
| 134 | 23.8 | 12.0 | 36.1 |

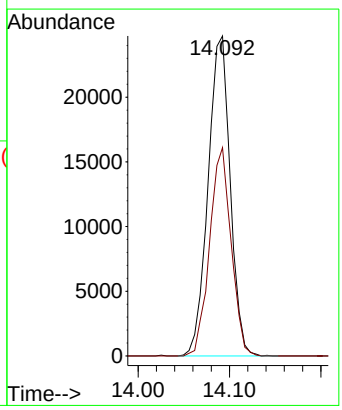


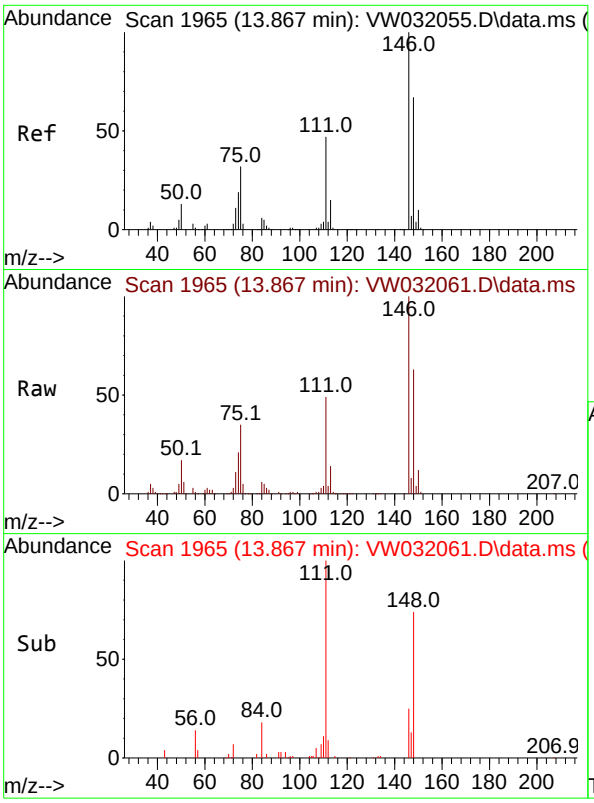




#90
Hexachloroethane
Concen: 19.094 ug/l
RT: 14.092 min Scan# 2002
Delta R.T. 0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:117 Resp: 41522

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 63.3 | 30.9 | 92.5 |



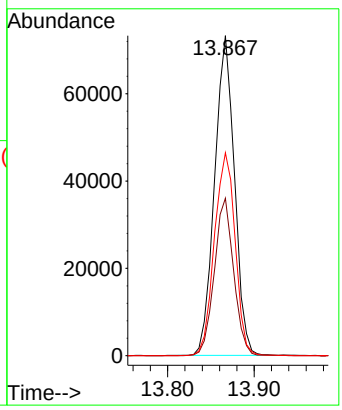


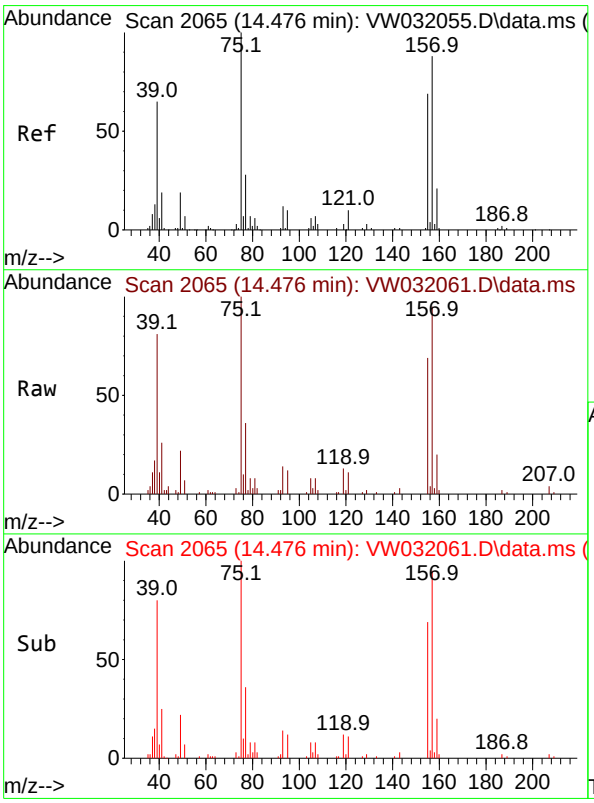

#91
1,2-Dichlorobenzene
Concen: 20.259 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion:146 Resp: 116780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 48.0 | 23.1 | 69.3 |
| 148 | 66.3 | 32.9 | 98.6 |

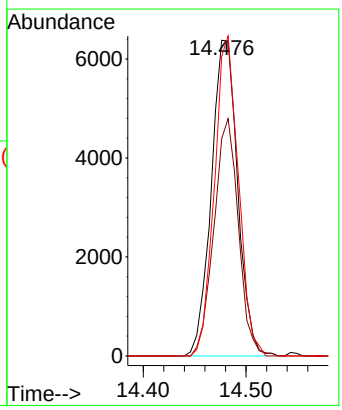


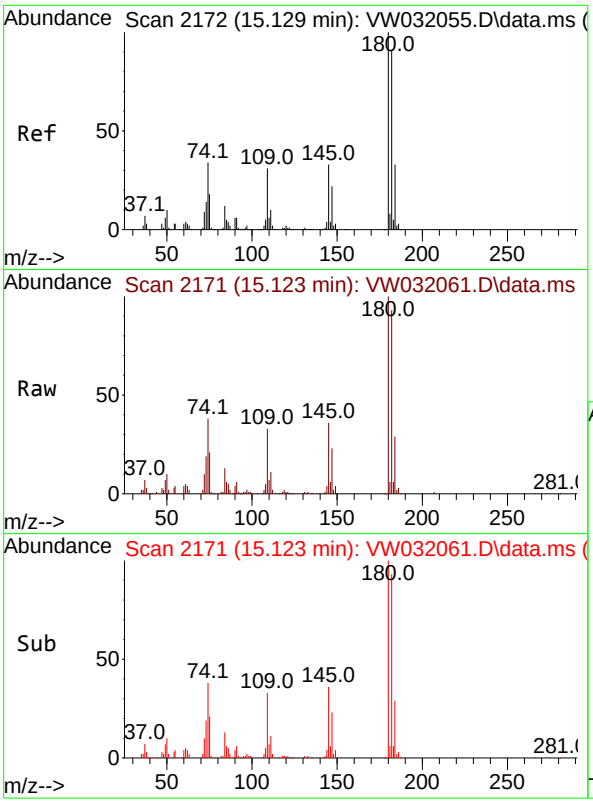




#92
1,2-Dibromo-3-Chloropropane
Concen: 20.070 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion: 75 Resp: 11343

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 69.8 | 35.2 | 105.6 |
| 157 | 92.0 | 47.5 | 142.6 |



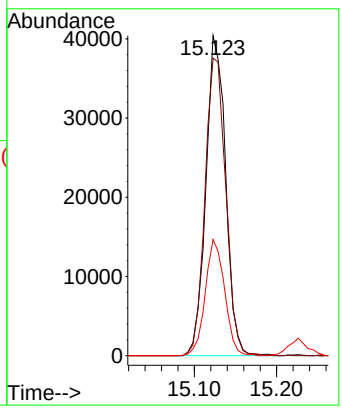


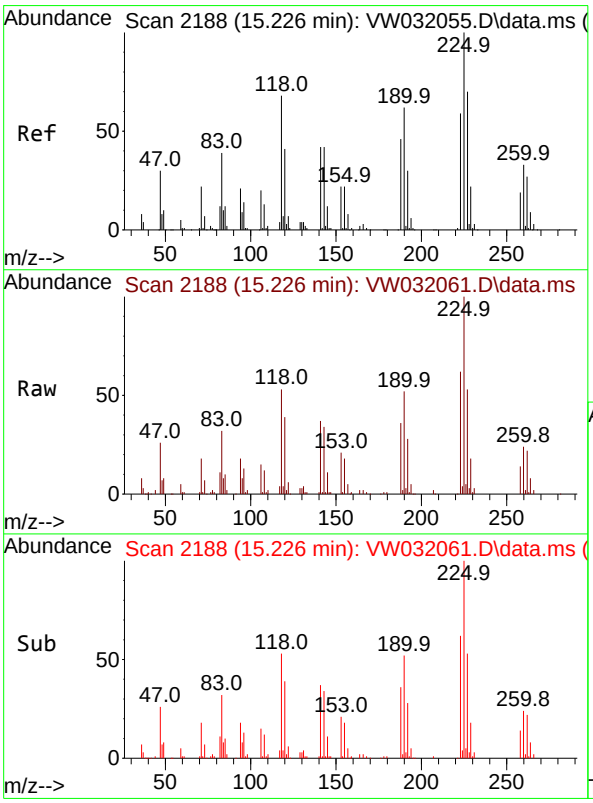

#93
1,2,4-Trichlorobenzene
Concen: 19.544 ug/l
RT: 15.123 min Scan# 21
Delta R.T. -0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion:180 Resp: 67394

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 97.6 | 49.0 | 147.0 |
| 145 | 35.7 | 17.3 | 51.9 |

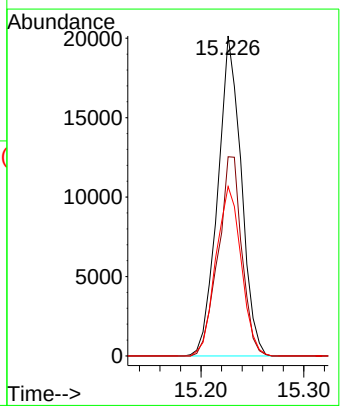


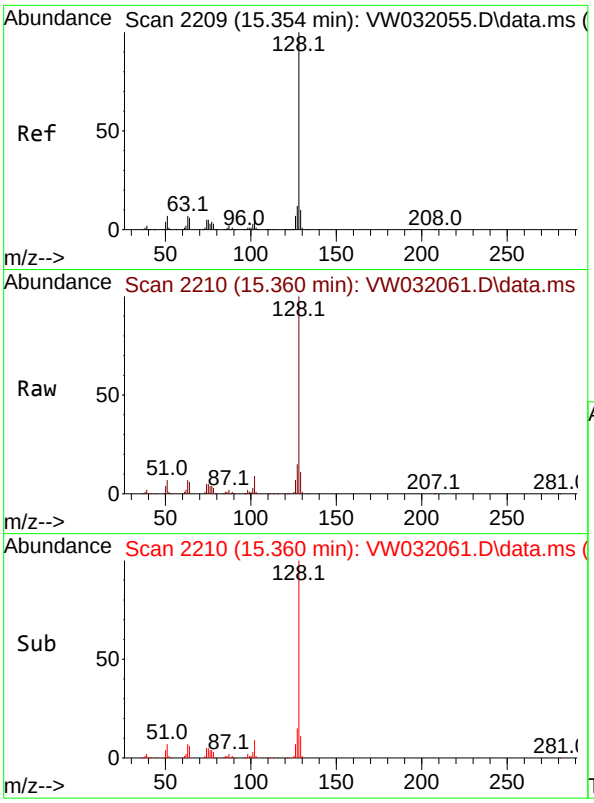




#94
Hexachlorobutadiene
Concen: 20.753 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:225 Resp: 31990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.7 | 31.8 | 95.3 |
| 227 | 57.0 | 33.5 | 100.5 |



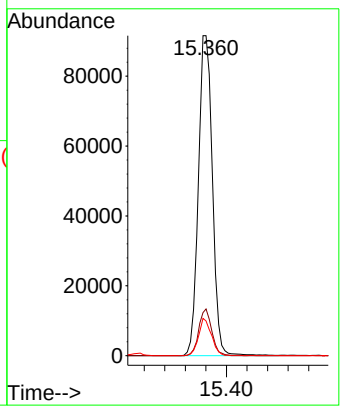


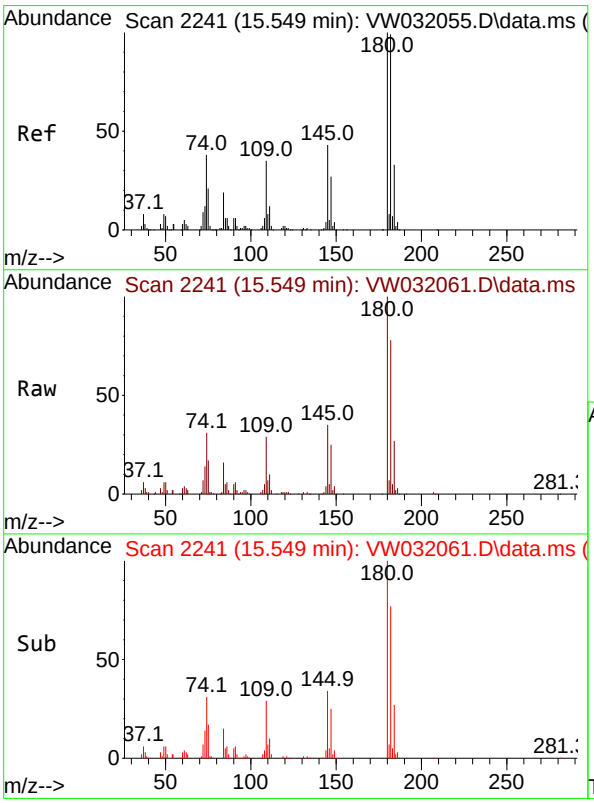

#95
Naphthalene
Concen: 20.498 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBS01

Tgt Ion:128 Resp: 173199

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.6 | 10.5 | 15.7 |
| 129 | 10.7 | 8.2 | 12.4 |

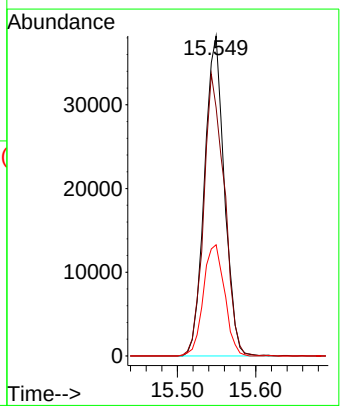



#96
1,2,3-Trichlorobenzene
Concen: 21.446 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. -0.000 min
Lab File: VW032061.D
Acq: 11 Aug 2025 12:48

Tgt Ion:180 Resp: 67287

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 91.4 | 46.0 | 138.0 |
| 145 | 37.2 | 19.2 | 57.6 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032062.D
Acq On : 11 Aug 2025 13:10
Operator : SY/MD
Sample : VW0811SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Quant Time: Aug 12 04:24:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.959 | 168 | 226773 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.849 | 114 | 441696 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.635 | 117 | 400240 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.556 | 152 | 195548 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.319 | 65 | 163196 | 49.758 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 63 - 155 | | Recovery = 99.520% | | | |
| 35) Dibromofluoromethane | 7.904 | 113 | 134207 | 47.032 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 70 - 134 | | Recovery = 94.060% | | | |
| 50) Toluene-d8 | 10.331 | 98 | 509734 | 48.296 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 123 | | Recovery = 96.600% | | | |
| 62) 4-Bromofluorobenzene | 12.617 | 95 | 193625 | 49.782 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 17 - 146 | | Recovery = 99.560% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.046 | 85 | 33141 | 20.433 | ug/l | 95 |
| 3) Chloromethane | 2.253 | 50 | 46903 | 21.468 | ug/l | 96 |
| 4) Vinyl Chloride | 2.405 | 62 | 54316 | 20.553 | ug/l | 95 |
| 5) Bromomethane | 2.820 | 94 | 41922 | 21.144 | ug/l | 99 |
| 6) Chloroethane | 2.972 | 64 | 36568 | 20.911 | ug/l | 100 |
| 7) Trichlorofluoromethane | 3.308 | 101 | 43905 | 20.739 | ug/l | 93 |
| 8) Diethyl Ether | 3.722 | 74 | 36629 | 21.118 | ug/l | 98 |
| 9) 1,1,2-Trichlorotrifluo... | 4.100 | 101 | 49478 | 19.810 | ug/l | 99 |
| 10) Methyl Iodide | 4.307 | 142 | 73761 | 20.829 | ug/l | 98 |
| 11) Tert butyl alcohol | 5.222 | 59 | 22637 | 106.589 | ug/l | 98 |
| 12) 1,1-Dichloroethene | 4.076 | 96 | 55617 | 20.223 | ug/l | 92 |
| 13) Acrolein | 3.929 | 56 | 36383 | 107.518 | ug/l | 99 |
| 14) Allyl chloride | 4.698 | 41 | 83613 | 20.889 | ug/l | 99 |
| 15) Acrylonitrile | 5.405 | 53 | 88342 | 106.933 | ug/l | 99 |
| 16) Acetone | 4.155 | 43 | 82994 | 109.296 | ug/l | 99 |
| 17) Carbon Disulfide | 4.423 | 76 | 147711 | 20.010 | ug/l | 98 |
| 18) Methyl Acetate | 4.710 | 43 | 51758 | 21.540 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.460 | 73 | 105734 | 21.820 | ug/l | 96 |
| 20) Methylene Chloride | 4.947 | 84 | 75897 | 21.617 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 5.460 | 96 | 59755 | 20.474 | ug/l | 93 |
| 22) Diisopropyl ether | 6.337 | 45 | 181364 | 21.493 | ug/l | 92 |
| 23) Vinyl Acetate | 6.283 | 43 | 596458 | 107.662 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 6.246 | 63 | 110715 | 20.536 | ug/l | 98 |
| 25) 2-Butanone | 7.191 | 43 | 119355 | 110.592 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 7.191 | 77 | 57308 | 21.188 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 7.191 | 96 | 71058 | 20.829 | ug/l | 99 |
| 28) Bromochloromethane | 7.532 | 49 | 49164 | 20.039 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.557 | 42 | 77560 | 108.972 | ug/l | 100 |
| 30) Chloroform | 7.691 | 83 | 119914 | 20.980 | ug/l | 97 |
| 31) Cyclohexane | 7.971 | 56 | 94081 | 20.129 | ug/l | 95 |
| 32) 1,1,1-Trichloroethane | 7.886 | 97 | 84762 | 20.417 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 8.099 | 75 | 79280 | 19.708 | ug/l | 99 |
| 37) Ethyl Acetate | 7.276 | 43 | 48057 | 20.284 | ug/l | 98 |
| 38) Carbon Tetrachloride | 8.087 | 117 | 76962 | 19.825 | ug/l | 88 |
| 39) Methylcyclohexane | 9.343 | 83 | 98634 | 20.117 | ug/l | 95 |
| 40) Benzene | 8.337 | 78 | 252942 | 20.229 | ug/l | 98 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032062.D
Acq On : 11 Aug 2025 13:10
Operator : SY/MD
Sample : VW0811SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Quant Time: Aug 12 04:24:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.502 | 41 | 27124 | 20.188 | ug/l | | 93 |
| 42) 1,2-Dichloroethane | 8.416 | 62 | 83160 | 20.784 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.435 | 43 | 88890 | 20.393 | ug/l | | 100 |
| 44) Trichloroethene | 9.105 | 130 | 59840 | 20.095 | ug/l | | 97 |
| 45) 1,2-Dichloropropane | 9.373 | 63 | 60825 | 20.135 | ug/l | | 95 |
| 46) Dibromomethane | 9.465 | 93 | 39289 | 20.151 | ug/l | | 98 |
| 47) Bromodichloromethane | 9.654 | 83 | 89761 | 19.980 | ug/l | | 96 |
| 48) Methyl methacrylate | 9.441 | 41 | 43222 | 20.539 | ug/l | | 99 |
| 49) 1,4-Dioxane | 9.465 | 88 | 10586 | 419.936 | ug/l | | 87 |
| 51) 4-Methyl-2-Pentanone | 10.215 | 43 | 257970 | 104.852 | ug/l | | 100 |
| 52) Toluene | 10.392 | 92 | 161185 | 20.465 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.611 | 75 | 84143 | 19.991 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 10.081 | 75 | 97621 | 20.444 | ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 10.788 | 97 | 53687 | 20.722 | ug/l | | 97 |
| 56) Ethyl methacrylate | 10.648 | 69 | 72299 | 20.854 | ug/l | | 97 |
| 57) 1,3-Dichloropropane | 10.934 | 76 | 90595 | 20.061 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.928 | 63 | 192035 | 100.139 | ug/l | | 99 |
| 59) 2-Hexanone | 10.971 | 43 | 180946 | 106.193 | ug/l | | 100 |
| 60) Dibromochloromethane | 11.129 | 129 | 59430 | 20.081 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 11.233 | 107 | 52100 | 20.693 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.867 | 164 | 47470 | 20.534 | ug/l | | 91 |
| 65) Chlorobenzene | 11.660 | 112 | 176392 | 20.247 | ug/l | | 93 |
| 66) 1,1,1,2-Tetrachloroethane | 11.733 | 131 | 54330 | 19.988 | ug/l | | 96 |
| 67) Ethyl Benzene | 11.727 | 91 | 302504 | 20.500 | ug/l | | 97 |
| 68) m/p-Xylenes | 11.836 | 106 | 231893 | 40.725 | ug/l | | 96 |
| 69) o-Xylene | 12.166 | 106 | 107543 | 20.434 | ug/l | | 99 |
| 70) Styrene | 12.178 | 104 | 194078 | 20.761 | ug/l | | 100 |
| 71) Bromoform | 12.349 | 173 | 31350 | 20.163 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.464 | 105 | 266409 | 19.494 | ug/l | | 99 |
| 74) N-amyl acetate | 12.269 | 43 | 79492 | 20.275 | ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.714 | 83 | 66644 | 20.539 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.763 | 75 | 81702 | 30.784 | ug/l | | 58 |
| 77) Bromobenzene | 12.745 | 156 | 67682 | 20.736 | ug/l | | 97 |
| 78) n-propylbenzene | 12.800 | 91 | 340328 | 20.228 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.891 | 91 | 209148 | 20.142 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.940 | 105 | 234936 | 20.250 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.513 | 75 | 19731 | 19.247 | ug/l | | 92 |
| 82) 4-Chlorotoluene | 12.989 | 91 | 220054 | 19.946 | ug/l | | 98 |
| 83) tert-Butylbenzene | 13.202 | 119 | 194628 | 20.213 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.245 | 105 | 247687 | 20.972 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.379 | 105 | 295479 | 20.297 | ug/l | | 98 |
| 86) p-Isopropyltoluene | 13.495 | 119 | 247079 | 20.359 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.495 | 146 | 134680 | 20.737 | ug/l | | 97 |
| 88) 1,4-Dichlorobenzene | 13.574 | 146 | 136123 | 20.740 | ug/l | | 98 |
| 89) n-Butylbenzene | 13.818 | 91 | 235344 | 19.961 | ug/l | | 99 |
| 90) Hexachloroethane | 14.086 | 117 | 41787 | 18.827 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 13.867 | 146 | 122421 | 20.808 | ug/l | | 95 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.482 | 75 | 11304 | 19.597 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 15.122 | 180 | 71854 | 20.416 | ug/l | | 95 |
| 94) Hexachlorobutadiene | 15.226 | 225 | 30590 | 19.444 | ug/l | | 99 |
| 95) Naphthalene | 15.360 | 128 | 174401 | 20.223 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.549 | 180 | 65985 | 20.606 | ug/l | | 98 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032062.D
Acq On : 11 Aug 2025 13:10
Operator : SY/MD
Sample : VW0811SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Quant Time: Aug 12 04:24:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

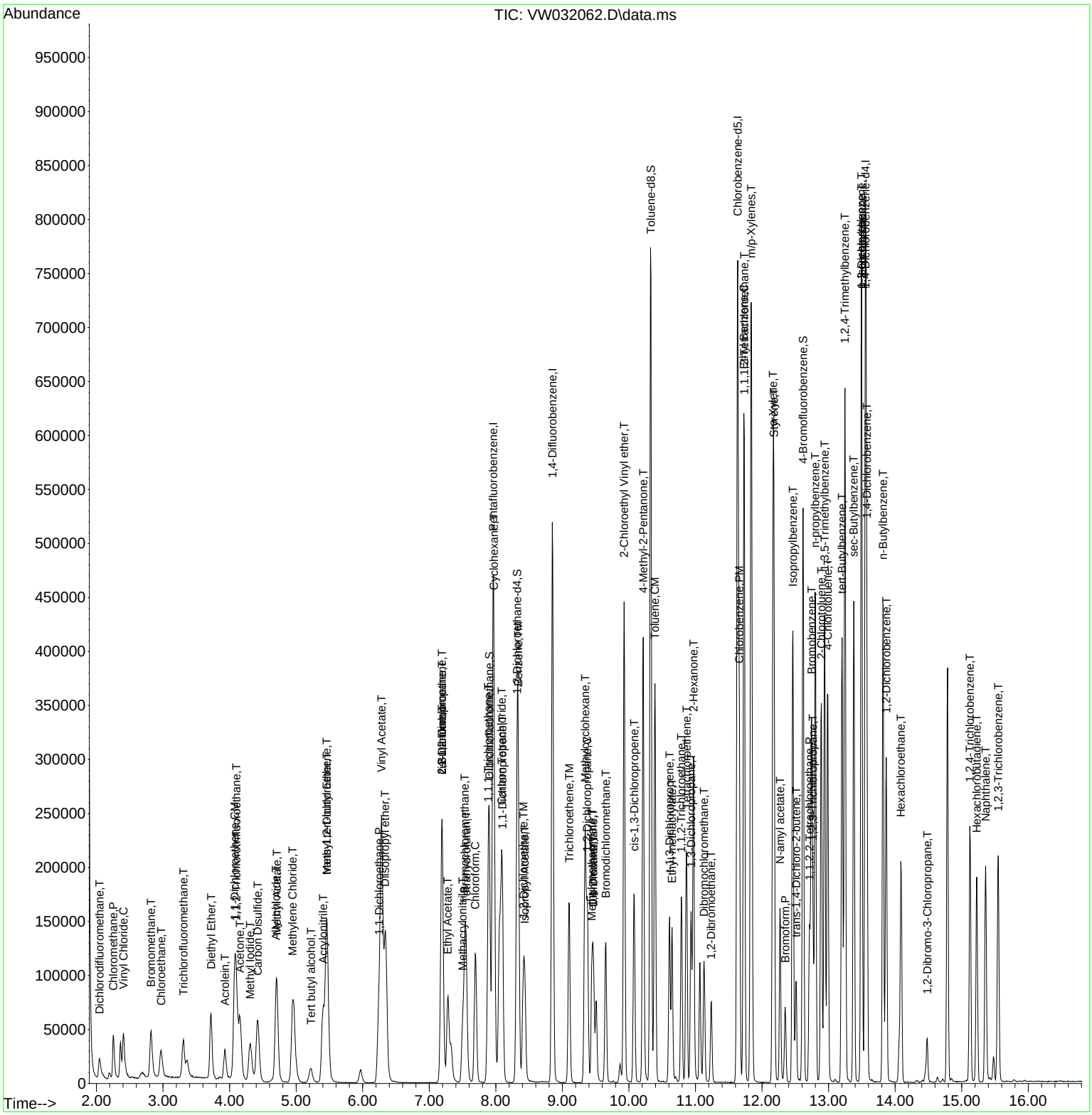
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

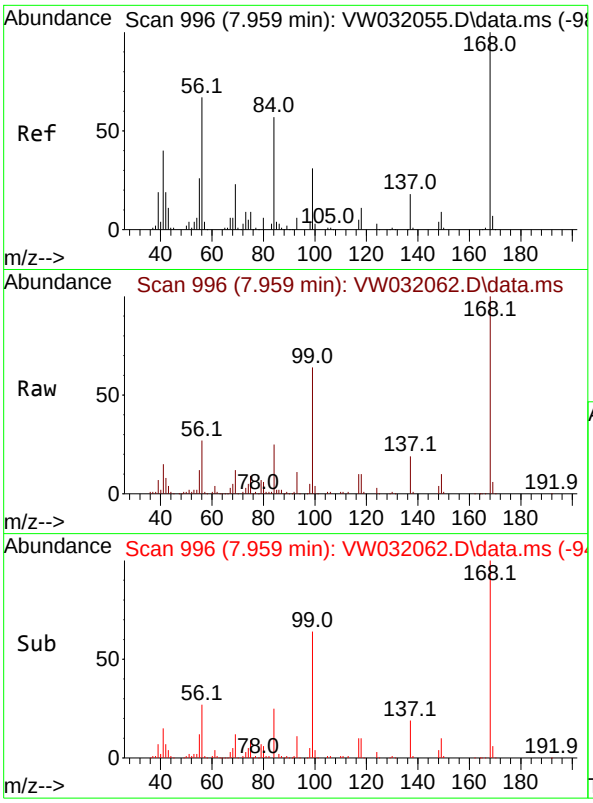
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032062.D
Acq On : 11 Aug 2025 13:10
Operator : SY/MD
Sample : VW0811SBSD01
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Quant Time: Aug 12 04:24:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration



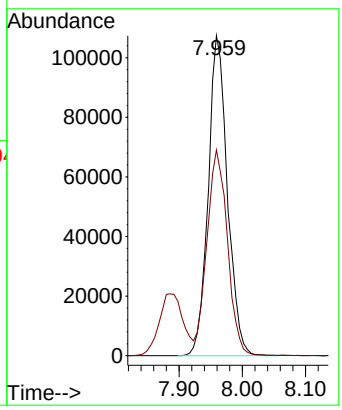


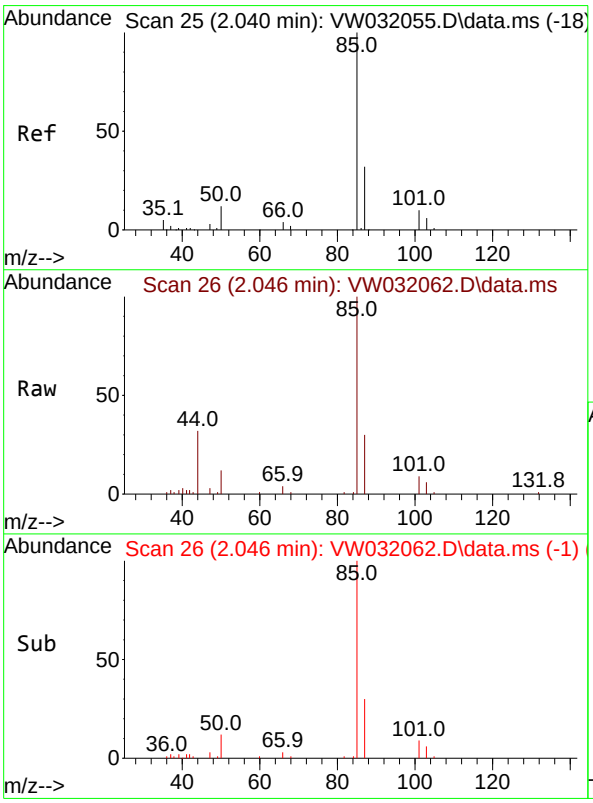

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion:168 Resp: 226773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 64.2 | 56.0 | 84.0 |

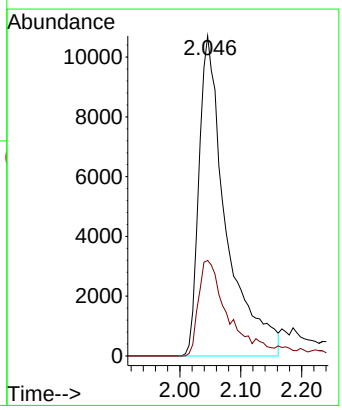


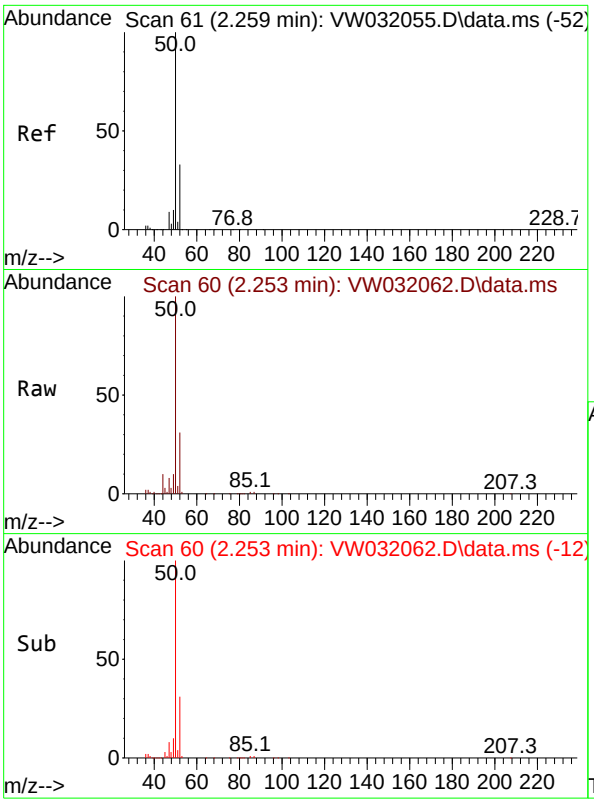




#2
Dichlorodifluoromethane
Concen: 20.433 ug/l
RT: 2.046 min Scan# 26
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 85 Resp: 33141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 29.9 | 16.2 | 48.6 |



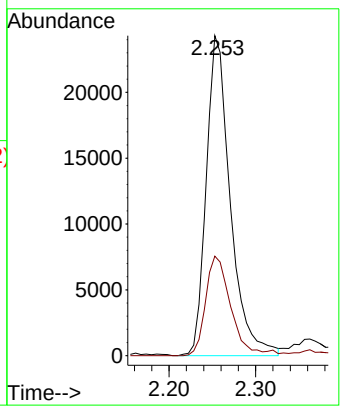


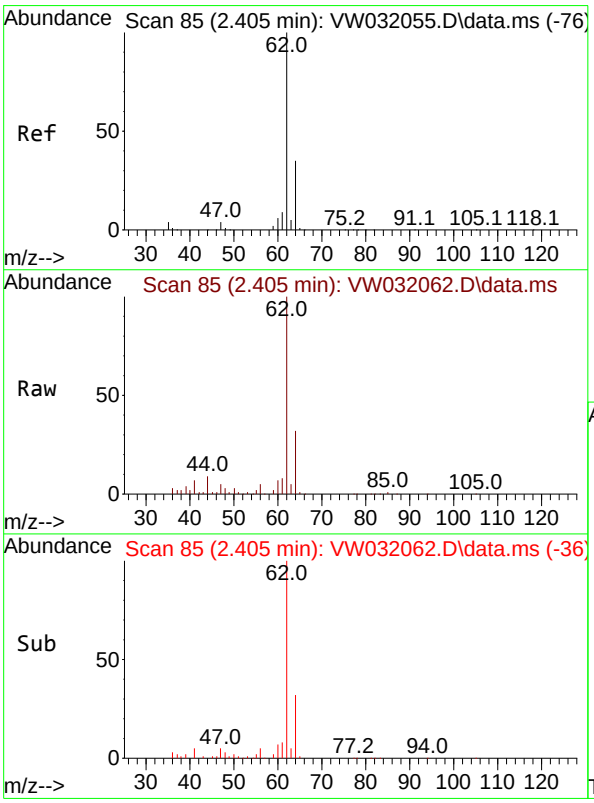

#3
Chloromethane
Concen: 21.468 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion: 50 Resp: 46903

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.1 | 26.6 | 39.8 |

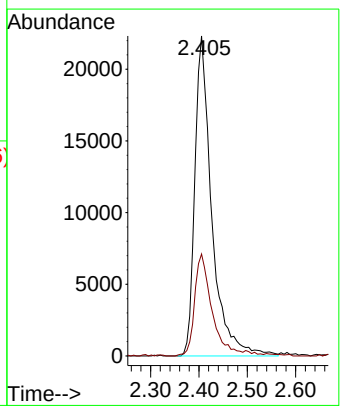


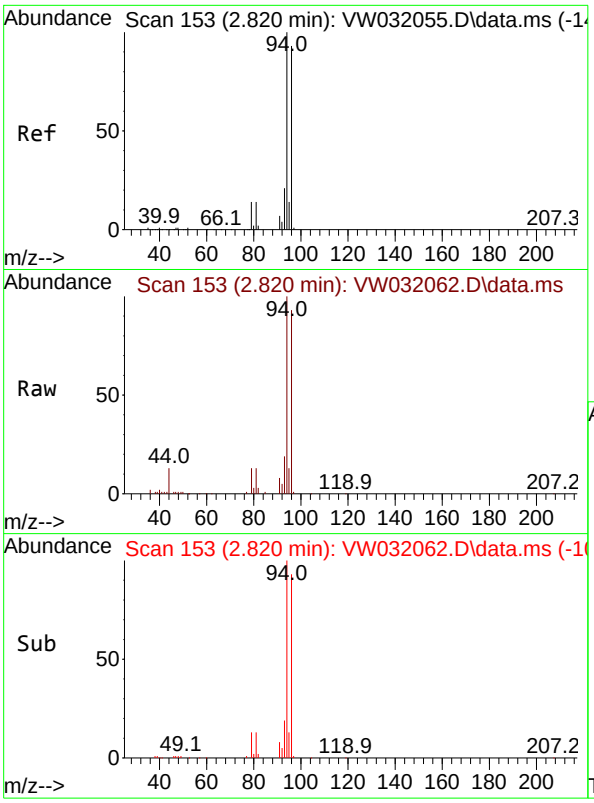




#4
Vinyl Chloride
Concen: 20.553 ug/l
RT: 2.405 min Scan# 85
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 62 Resp: 54316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.5 | 27.8 | 41.6 |



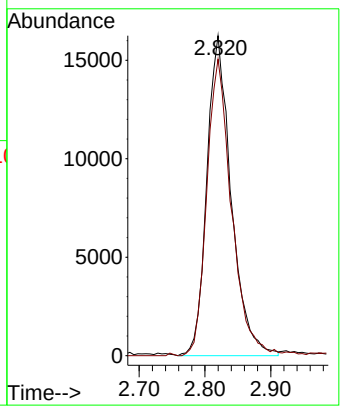


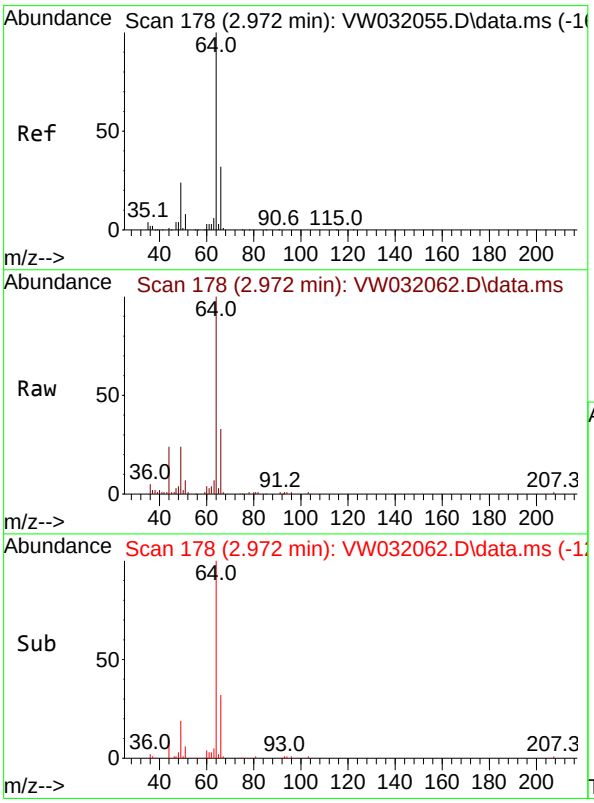

#5
Bromomethane
Concen: 21.144 ug/l
RT: 2.820 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion: 94 Resp: 41922

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 92.6 | 74.7 | 112.1 |

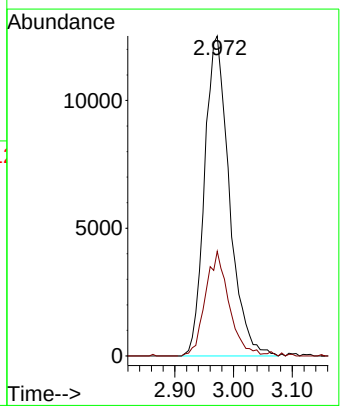


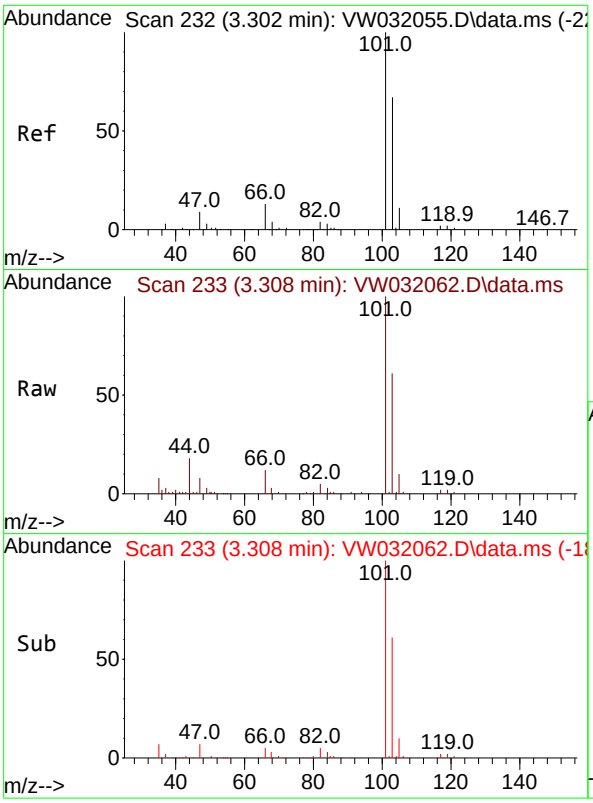




#6
Chloroethane
Concen: 20.911 ug/l
RT: 2.972 min Scan# 178
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 64 Resp: 36568

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.7 | 26.0 | 39.0 |



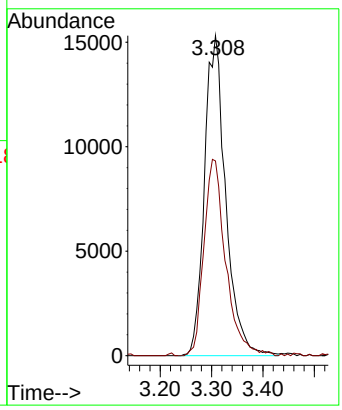


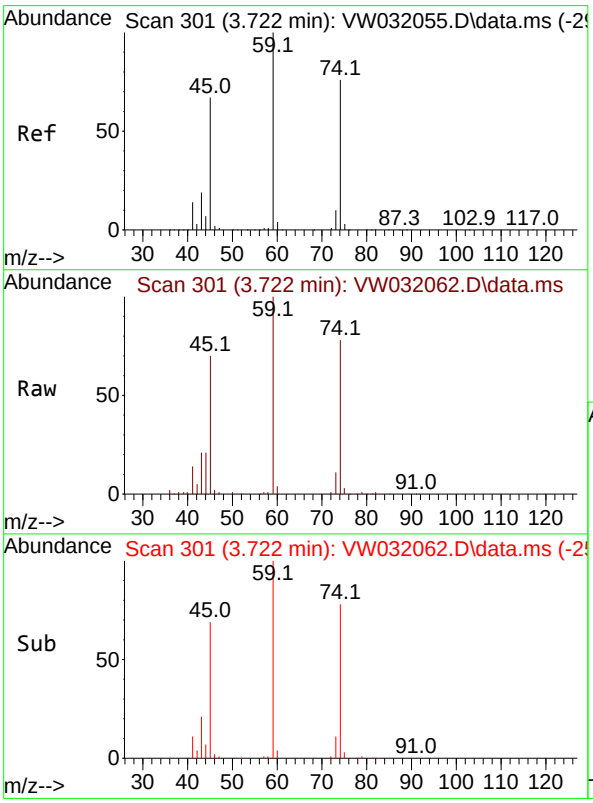

#7
Trichlorofluoromethane
Concen: 20.739 ug/l
RT: 3.308 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion:101 Resp: 43905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 60.8 | 53.4 | 80.0 |

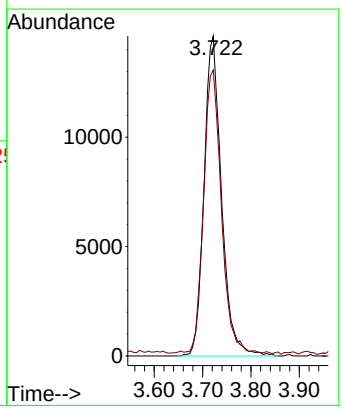


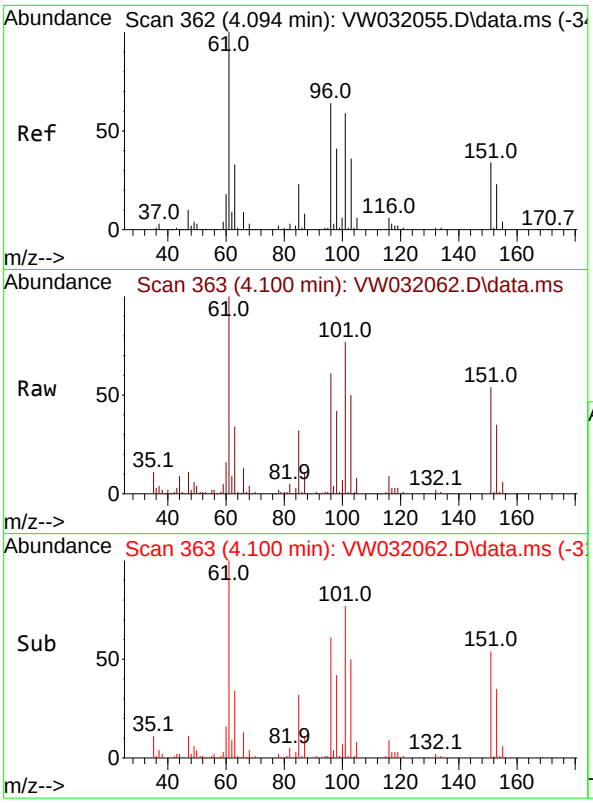




#8
Diethyl Ether
Concen: 21.118 ug/l
RT: 3.722 min Scan# 301
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 74 Resp: 36629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 89.2 | 45.4 | 136.2 |



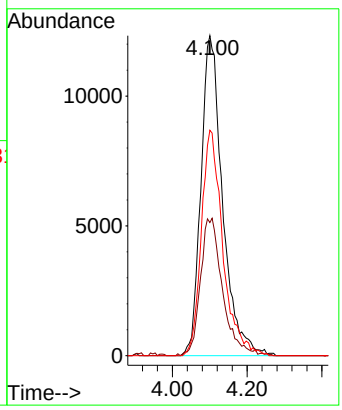


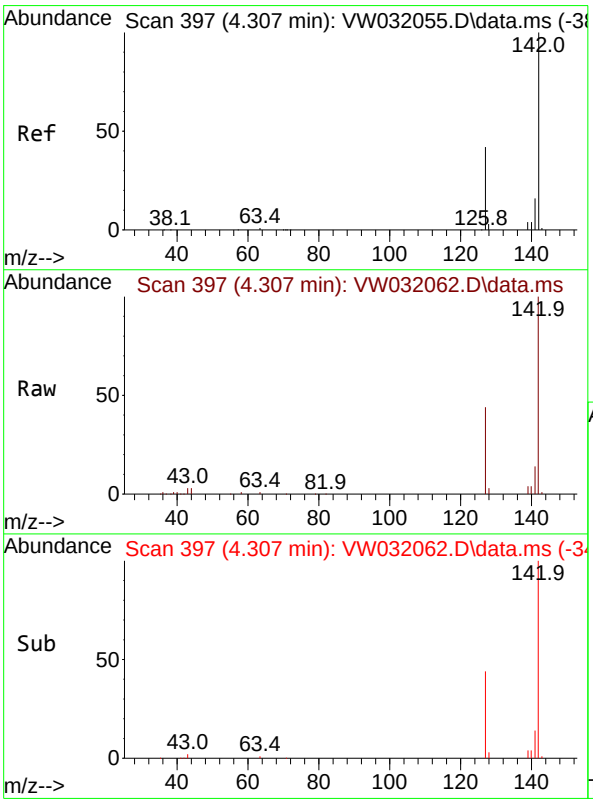

#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.810 ug/l
RT: 4.100 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion:101 Resp: 49478

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 44.1 | 34.9 | 52.3 |
| 151 | 70.0 | 56.2 | 84.4 |

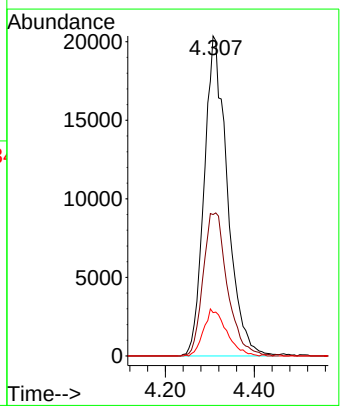


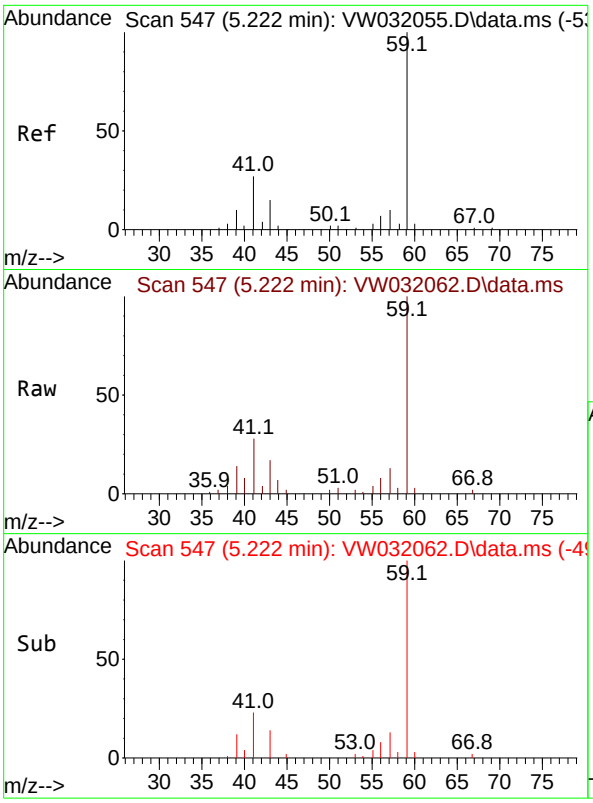




#10
Methyl Iodide
Concen: 20.829 ug/l
RT: 4.307 min Scan# 397
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:142 Resp: 73761

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 47.0 | 36.6 | 55.0 |
| 141 | 14.5 | 12.1 | 18.1 |



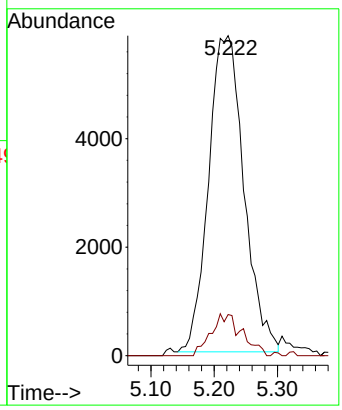


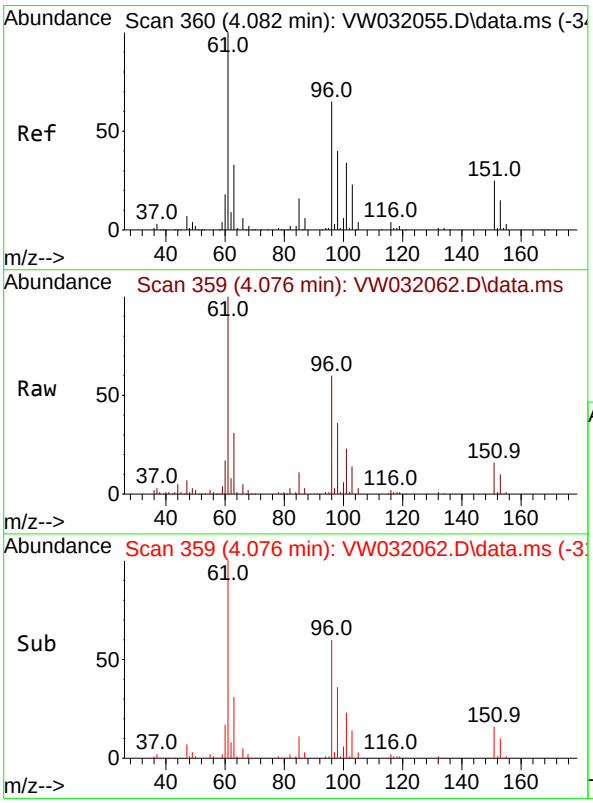

#11
Tert butyl alcohol
Concen: 106.589 ug/l
RT: 5.222 min Scan# 54
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion: 59 Resp: 22637

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 11.5 | 8.7 | 13.1 |

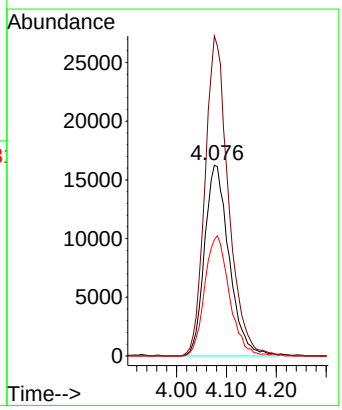


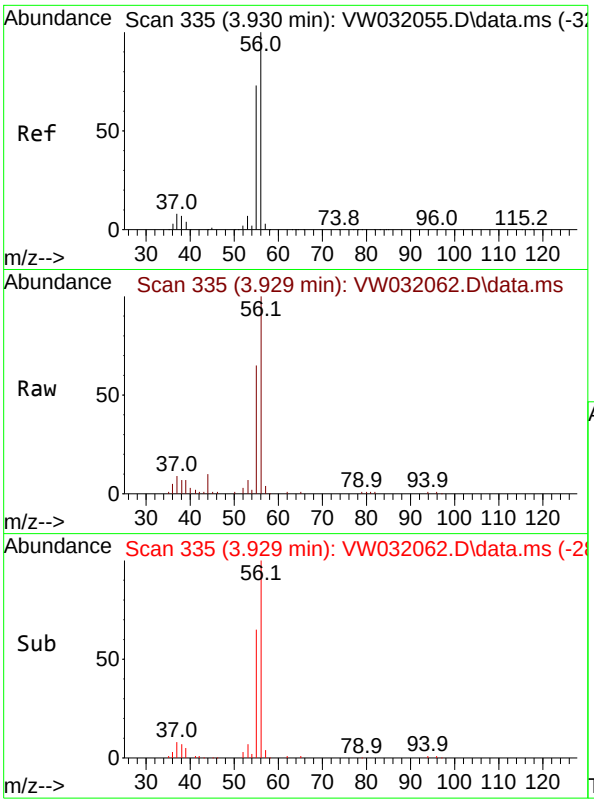




#12
1,1-Dichloroethene
Concen: 20.223 ug/l
RT: 4.076 min Scan# 359
Delta R.T. -0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 96 Resp: 55617

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 167.8 | 123.4 | 185.2 |
| 98 | 61.0 | 49.5 | 74.3 |



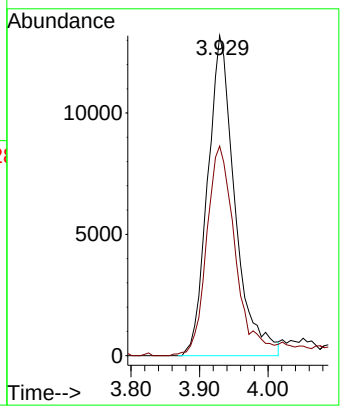


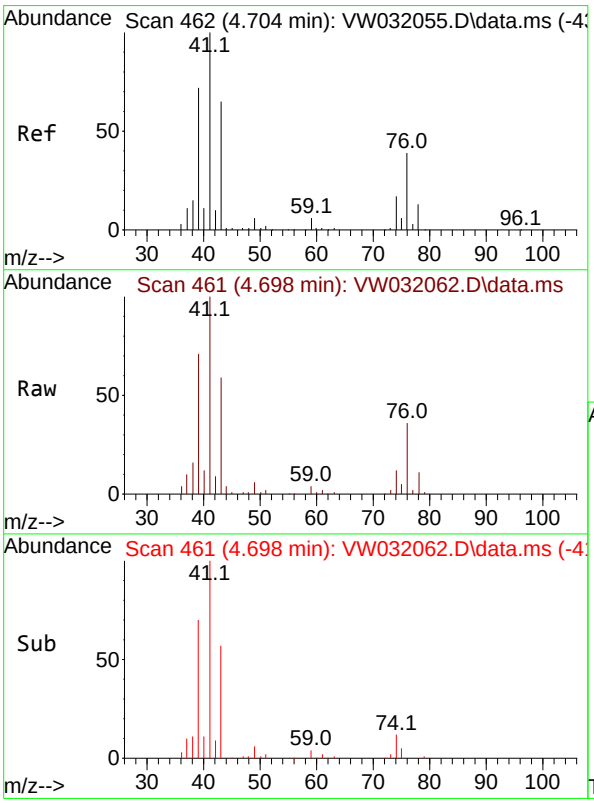

#13
Acrolein
Concen: 107.518 ug/l
RT: 3.929 min Scan# 3
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion: 56 Resp: 36383

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 68.8 | 55.4 | 83.2 |

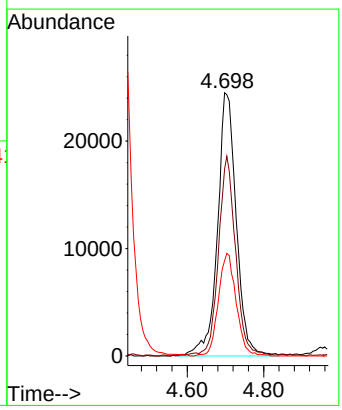


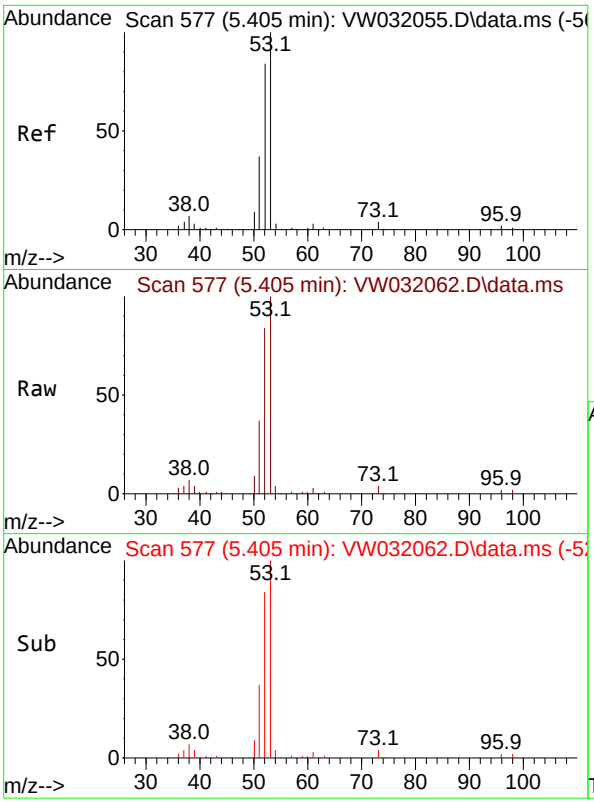




#14
Allyl chloride
Concen: 20.889 ug/l
RT: 4.698 min Scan# 461
Delta R.T. -0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 41 Resp: 83613

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 69.6 | 54.5 | 81.7 |
| 76 | 36.8 | 29.3 | 43.9 |



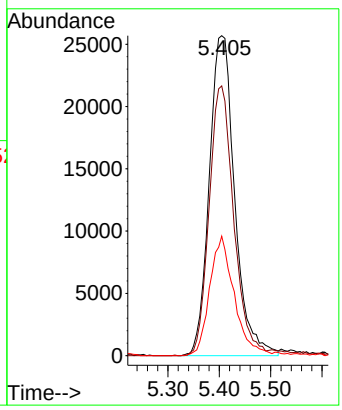


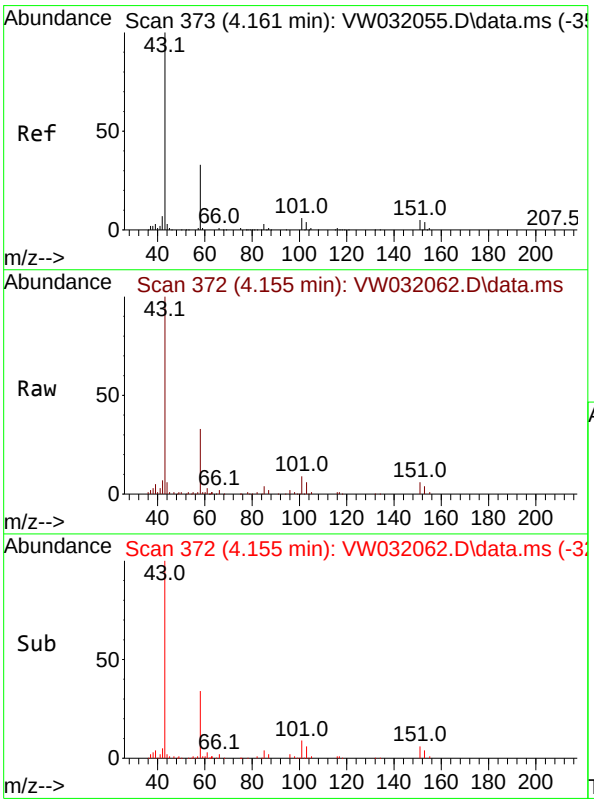

#15
Acrylonitrile
Concen: 106.933 ug/l
RT: 5.405 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion: 53 Resp: 88342

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.5 | 66.1 | 99.1 |
| 51 | 35.9 | 29.2 | 43.8 |

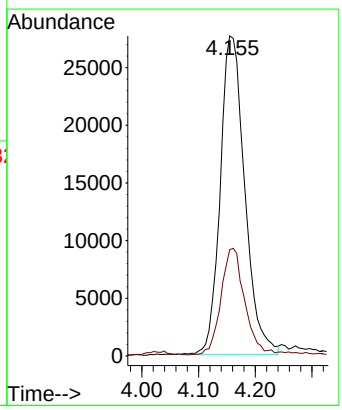


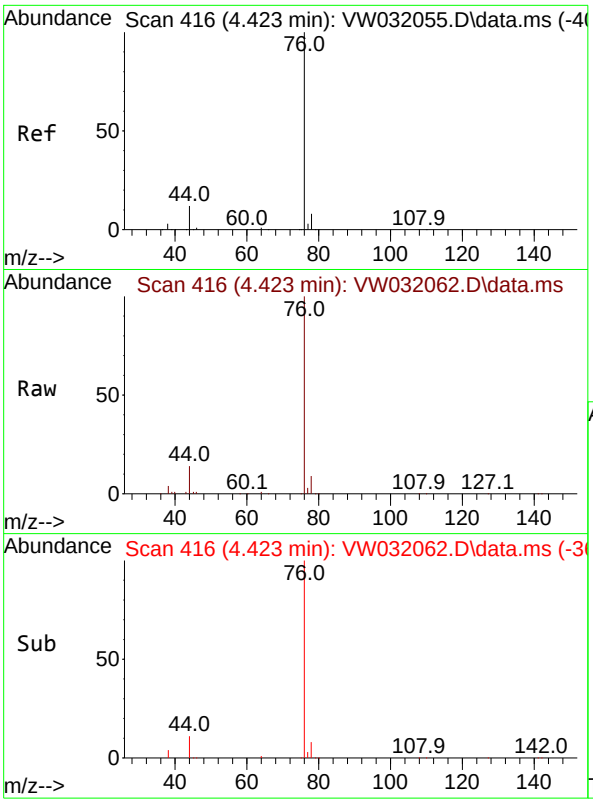




#16
Acetone
Concen: 109.296 ug/l
RT: 4.155 min Scan# 372
Delta R.T. -0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 43 Resp: 82994

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.7 | 26.6 | 39.8 |



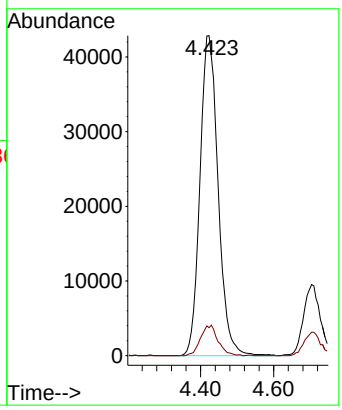


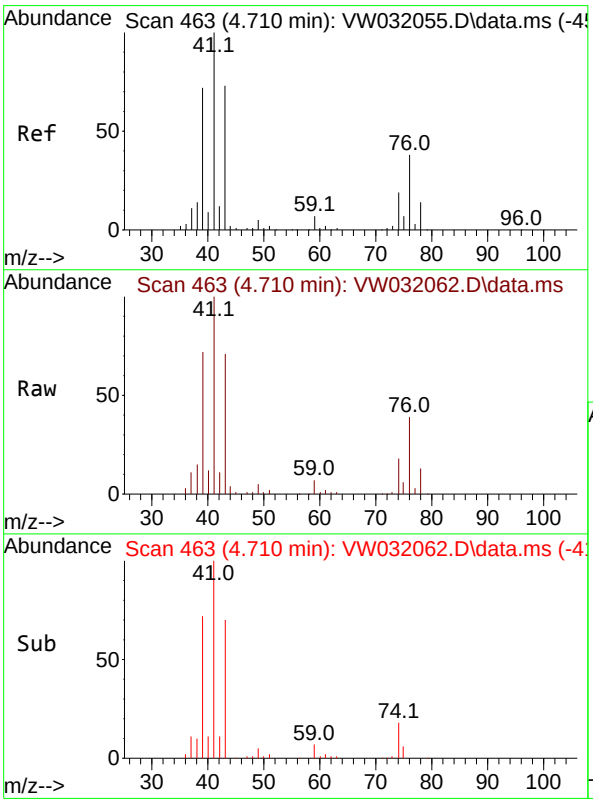

#17
Carbon Disulfide
Concen: 20.010 ug/l
RT: 4.423 min Scan# 4
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion: 76 Resp: 147711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.8 | 6.4 | 9.6 |

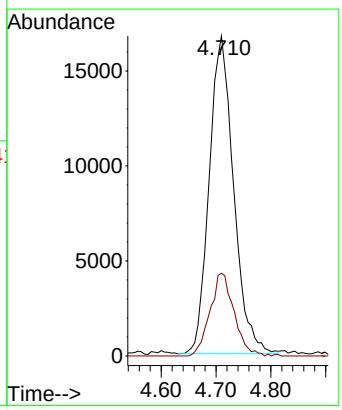


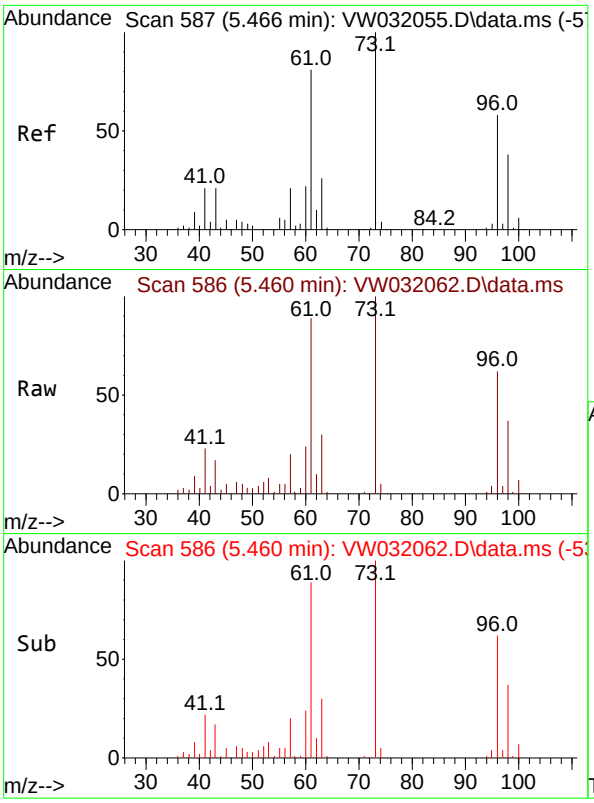




#18
Methyl Acetate
Concen: 21.540 ug/l
RT: 4.710 min Scan# 463
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 43 Resp: 51758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 25.6 | 20.6 | 31.0 |



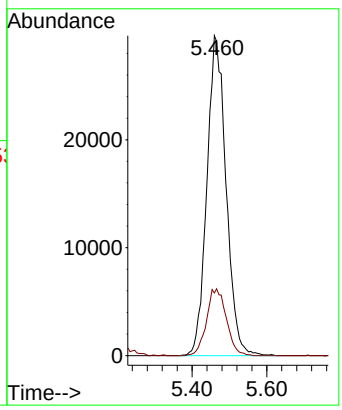


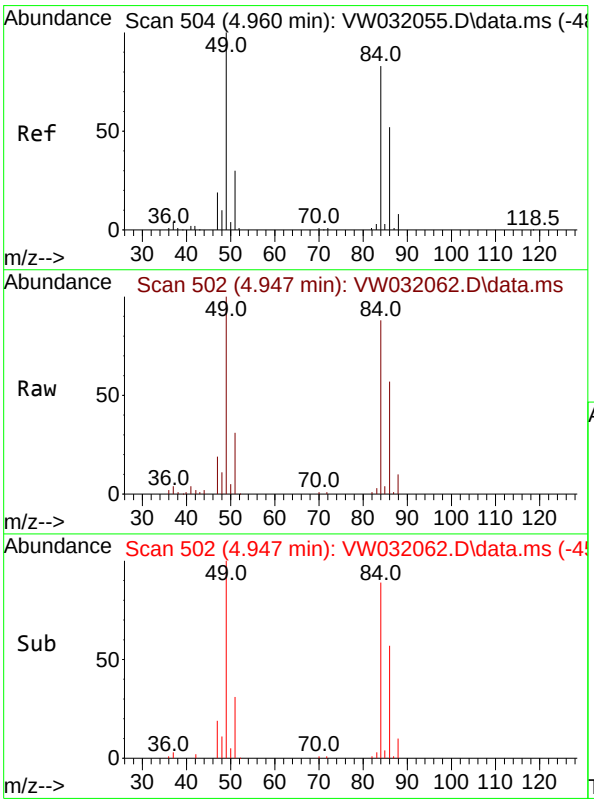

#19
Methyl tert-butyl Ether
Concen: 21.820 ug/l
RT: 5.460 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion: 73 Resp: 105734

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 19.6 | 17.2 | 25.8 |

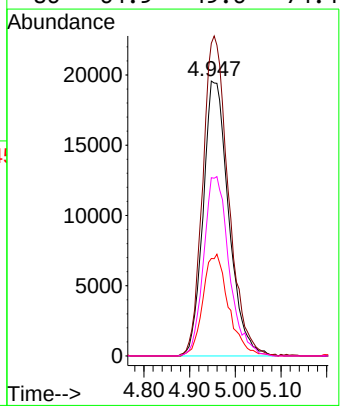


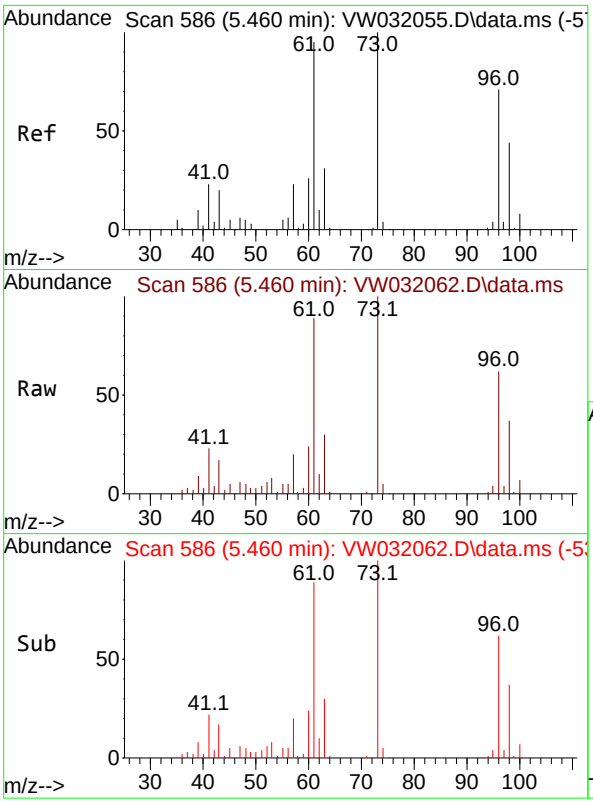




#20
Methylene Chloride
Concen: 21.617 ug/l
RT: 4.947 min Scan# 502
Delta R.T. -0.012 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 84 Resp: 75897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 113.8 | 95.9 | 143.9 |
| 51 | 35.4 | 28.6 | 43.0 |
| 86 | 64.9 | 49.6 | 74.4 |



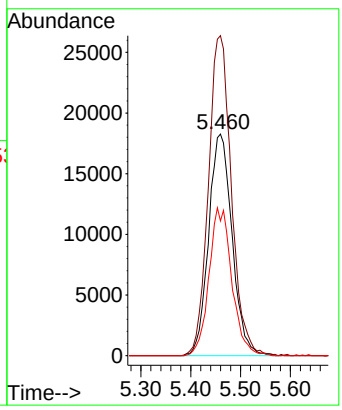


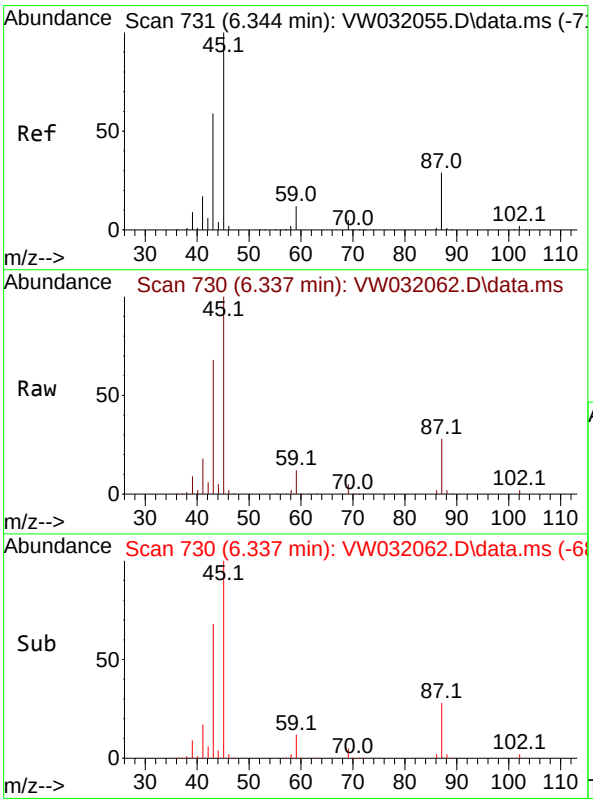

#21
trans-1,2-Dichloroethene
Concen: 20.474 ug/l
RT: 5.460 min Scan# 5
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion: 96 Resp: 59755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 144.4 | 106.8 | 160.2 |
| 98 | 60.8 | 49.6 | 74.4 |

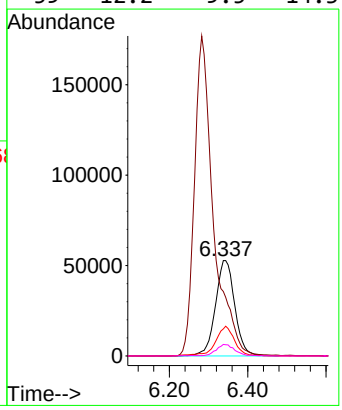


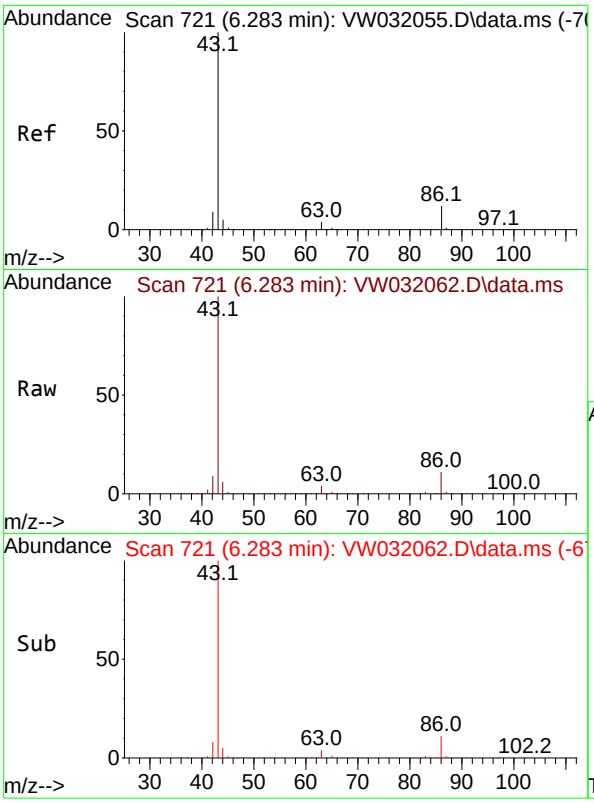




#22
Diisopropyl ether
Concen: 21.493 ug/l
RT: 6.337 min Scan# 730
Delta R.T. -0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 45 Resp: 181364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 67.2 | 47.0 | 70.4 |
| 87 | 28.4 | 23.8 | 35.8 |
| 59 | 12.2 | 9.5 | 14.3 |



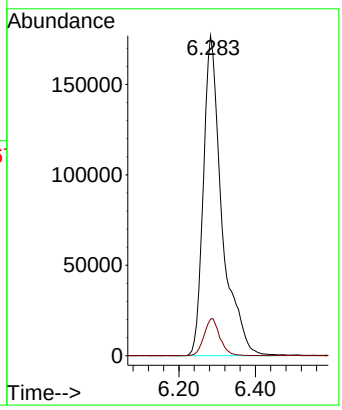


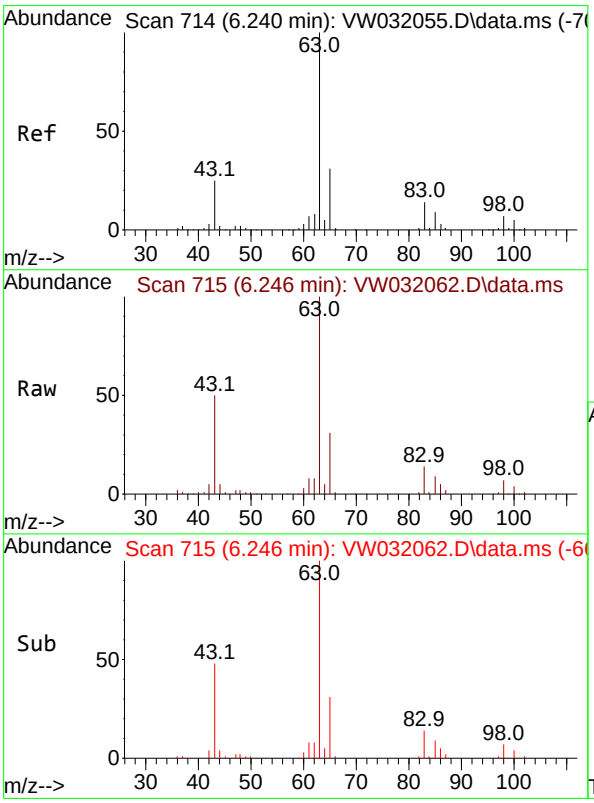

#23
Vinyl Acetate
Concen: 107.662 ug/l
RT: 6.283 min Scan# 7
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion: 43 Resp: 596458

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.4 | 9.4 | 14.0 |

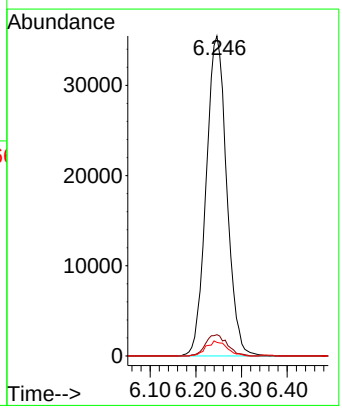


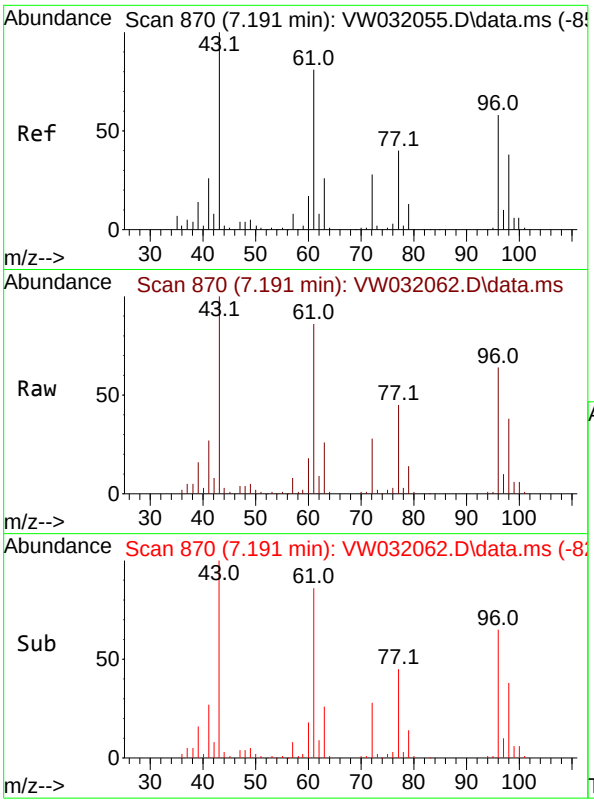




#24
1,1-Dichloroethane
Concen: 20.536 ug/l
RT: 6.246 min Scan# 715
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 63 Resp: 110715

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.6 | 3.7 | 11.1 |
| 100 | 4.2 | 2.5 | 7.4 |



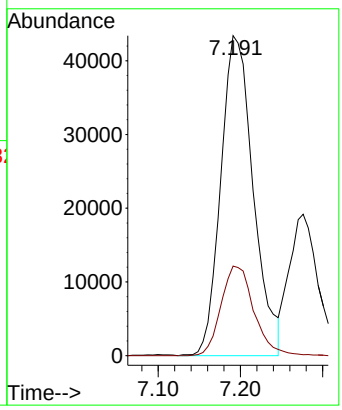


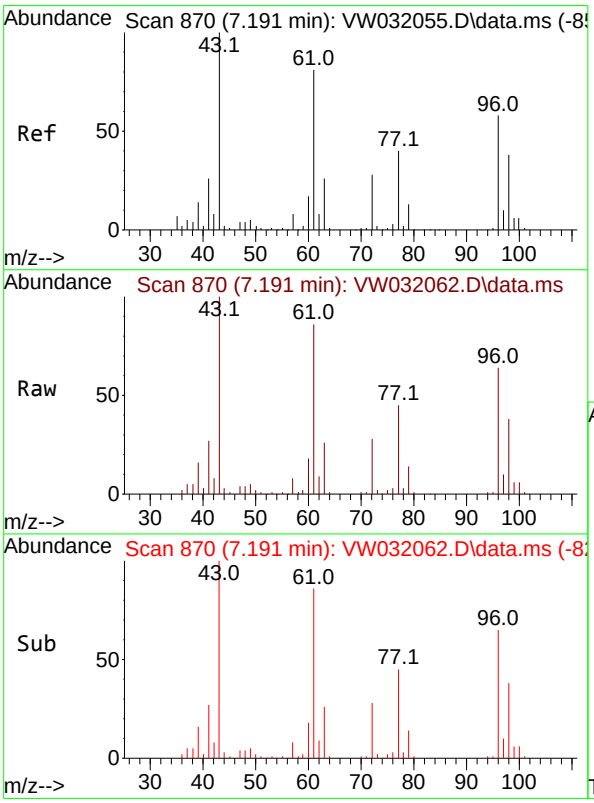

#25
2-Butanone
Concen: 110.592 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion: 43 Resp: 119355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 28.0 | 22.3 | 33.5 |

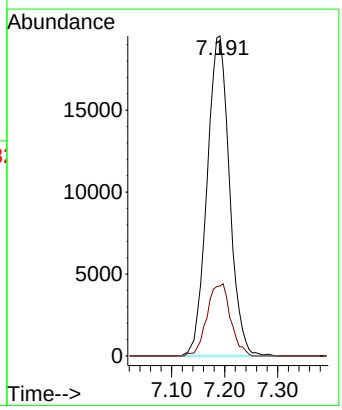


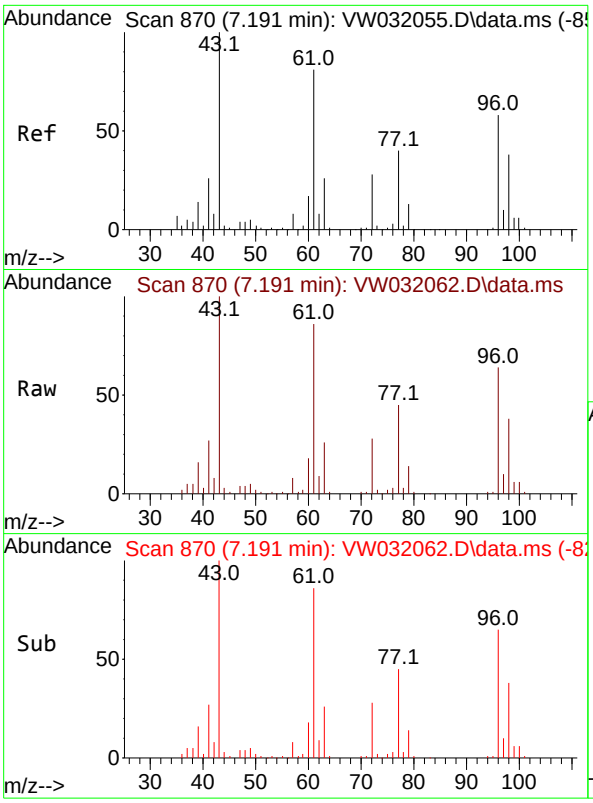




#26
2,2-Dichloropropane
Concen: 21.188 ug/l
RT: 7.191 min Scan# 870
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 77 Resp: 57308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.6 | 12.3 | 36.9 |



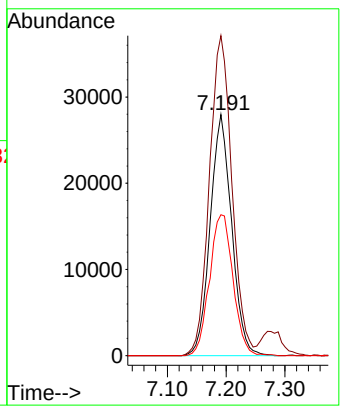


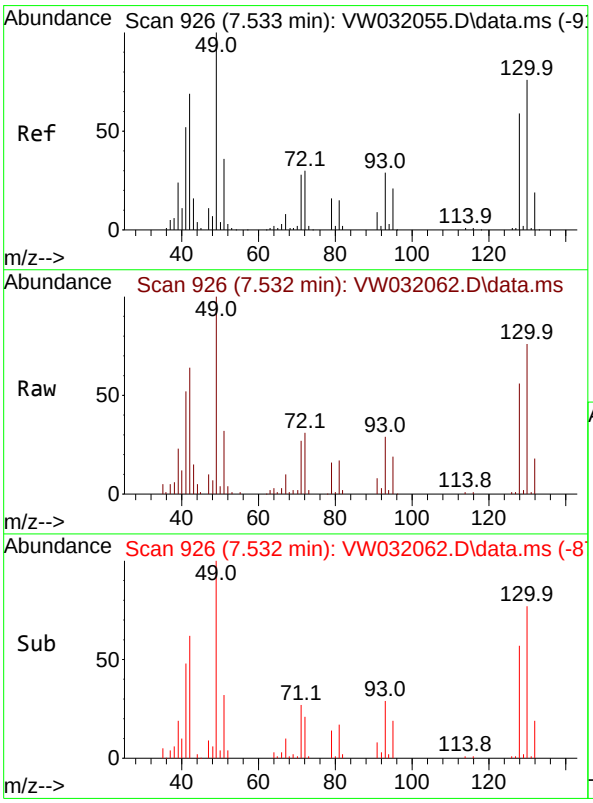

#27
cis-1,2-Dichloroethene
Concen: 20.829 ug/l
RT: 7.191 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion: 96 Resp: 71058

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 139.0 | 0.0 | 281.2 |
| 98 | 63.9 | 0.0 | 130.8 |

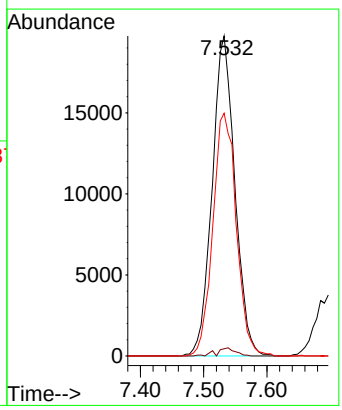


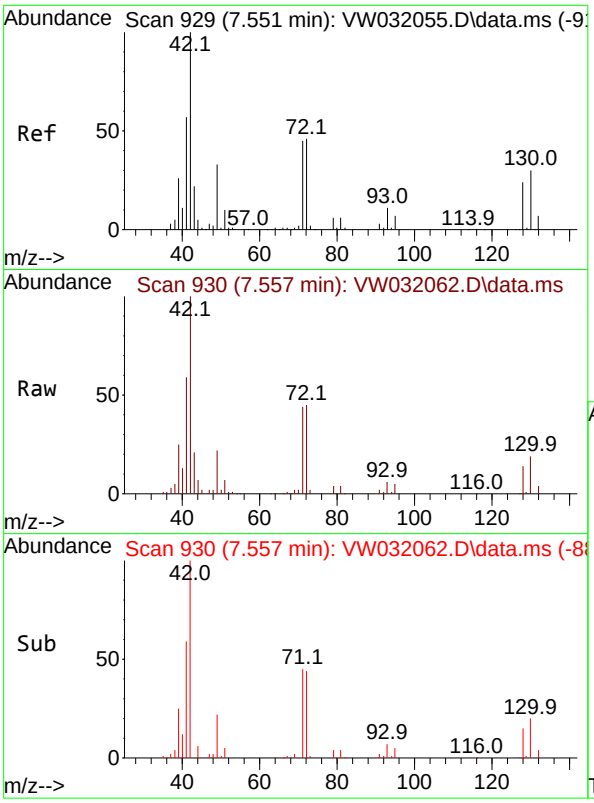




#28
Bromochloromethane
Concen: 20.039 ug/l
RT: 7.532 min Scan# 926
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 49 Resp: 49164

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.6 | 0.0 | 4.2 |
| 130 | 78.4 | 61.9 | 92.9 |



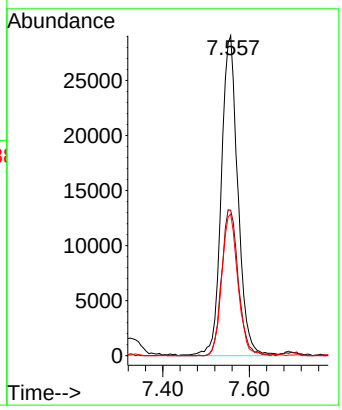


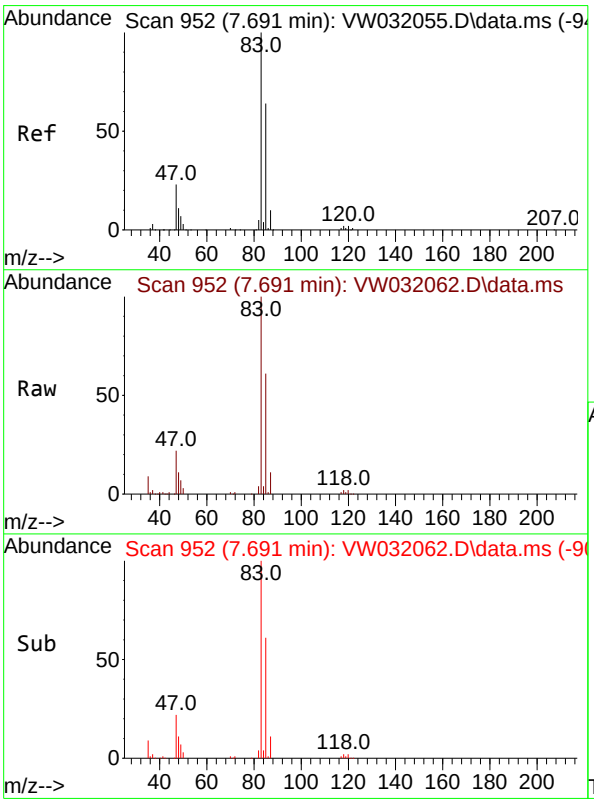

#29
Tetrahydrofuran
Concen: 108.972 ug/l
RT: 7.557 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion: 42 Resp: 77560

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 46.0 | 36.6 | 55.0 |
| 71 | 43.2 | 34.7 | 52.1 |

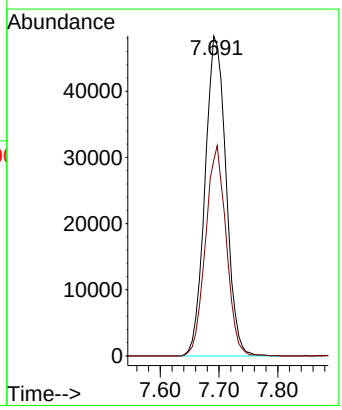


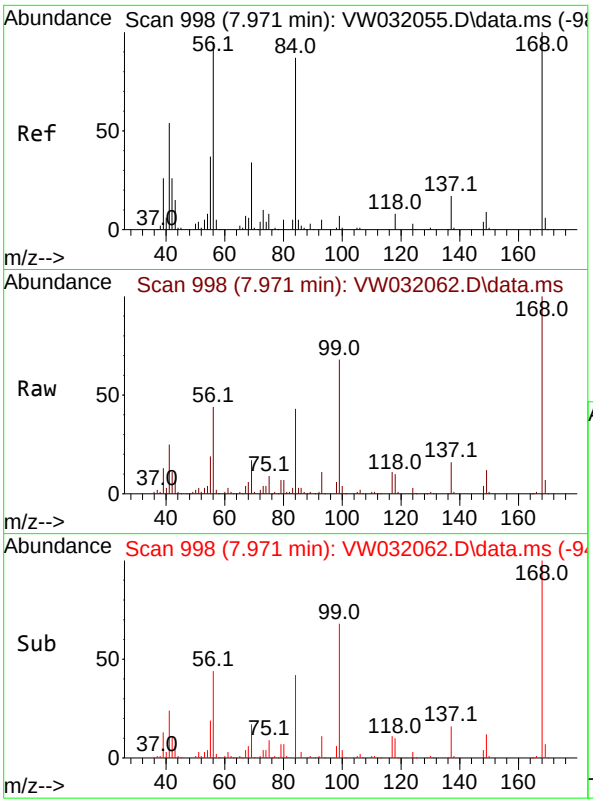




#30
Chloroform
Concen: 20.980 ug/l
RT: 7.691 min Scan# 952
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 83 Resp: 119914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 61.1 | 51.0 | 76.4 |



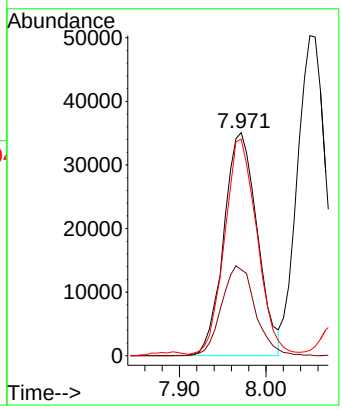


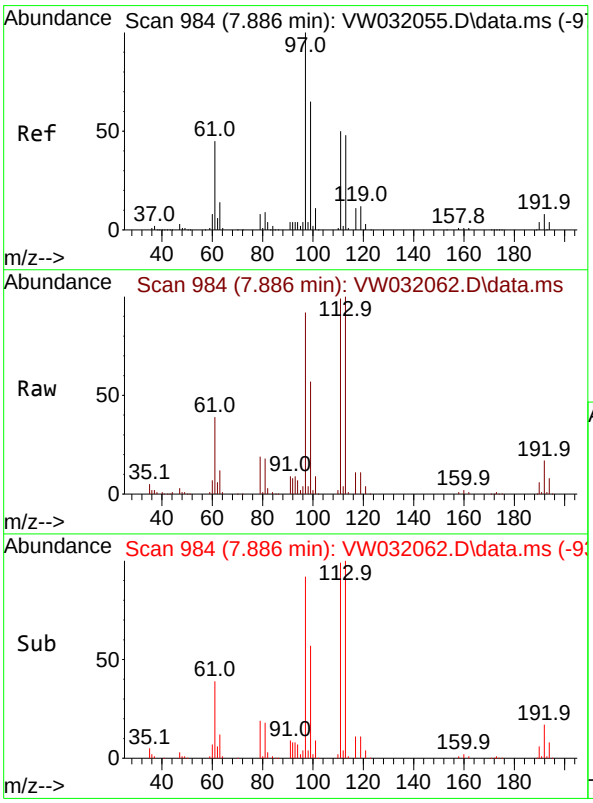

#31
Cyclohexane
Concen: 20.129 ug/l
RT: 7.971 min Scan# 9
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion: 56 Resp: 94081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 38.4 | 28.6 | 42.8 |
| 84 | 95.4 | 73.0 | 109.4 |

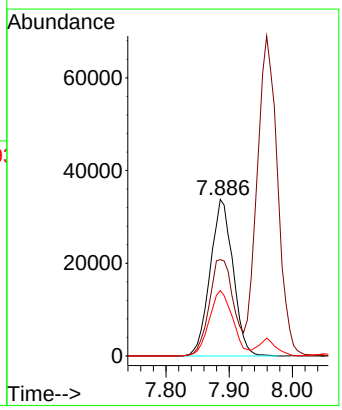


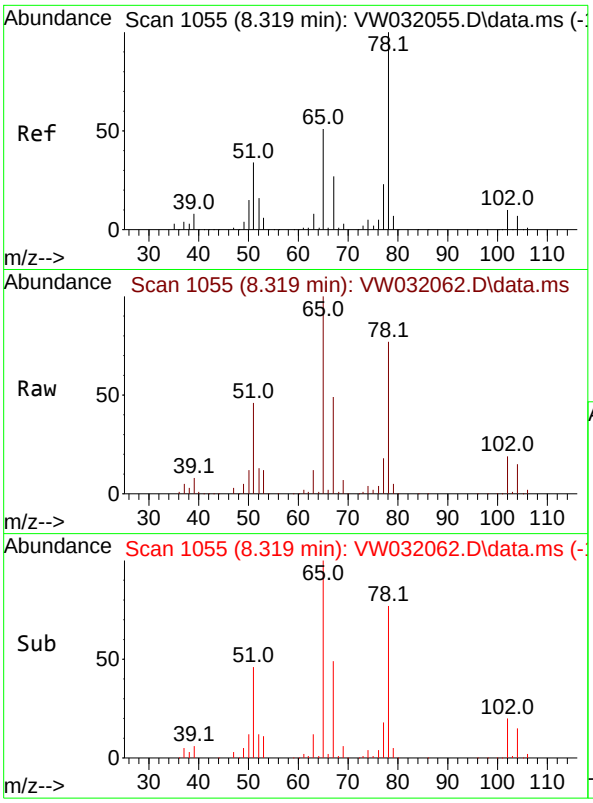




#32
1,1,1-Trichloroethane
Concen: 20.417 ug/l
RT: 7.886 min Scan# 984
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 97 Resp: 84762

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 65.6 | 51.8 | 77.8 |
| 61 | 43.2 | 35.9 | 53.9 |



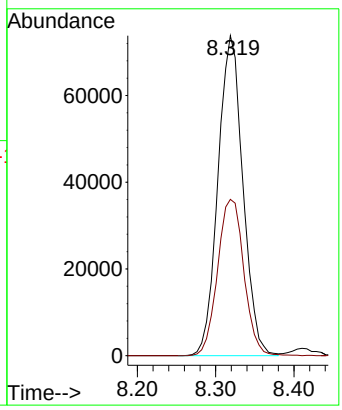


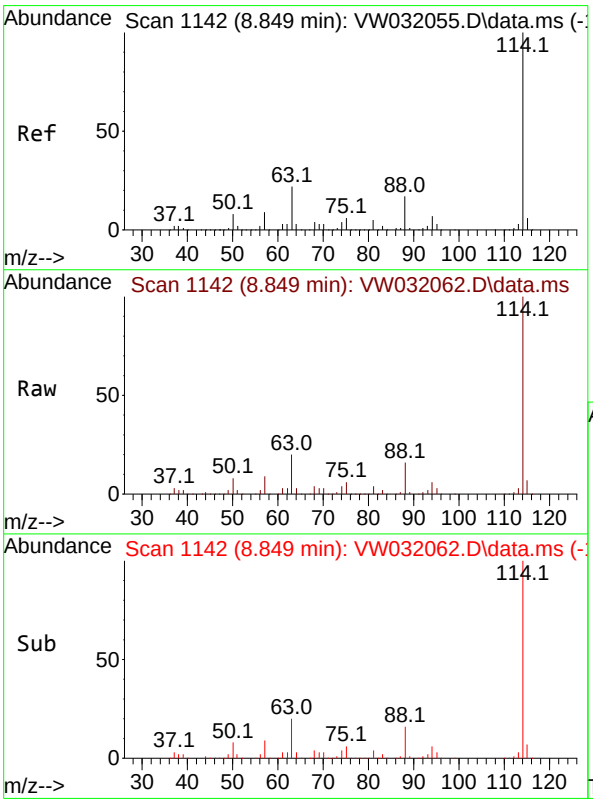

#33
1,2-Dichloroethane-d4
Concen: 49.758 ug/l
RT: 8.319 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion: 65 Resp: 163196

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.6 | 0.0 | 102.4 |

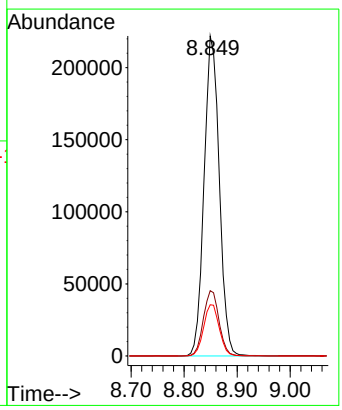


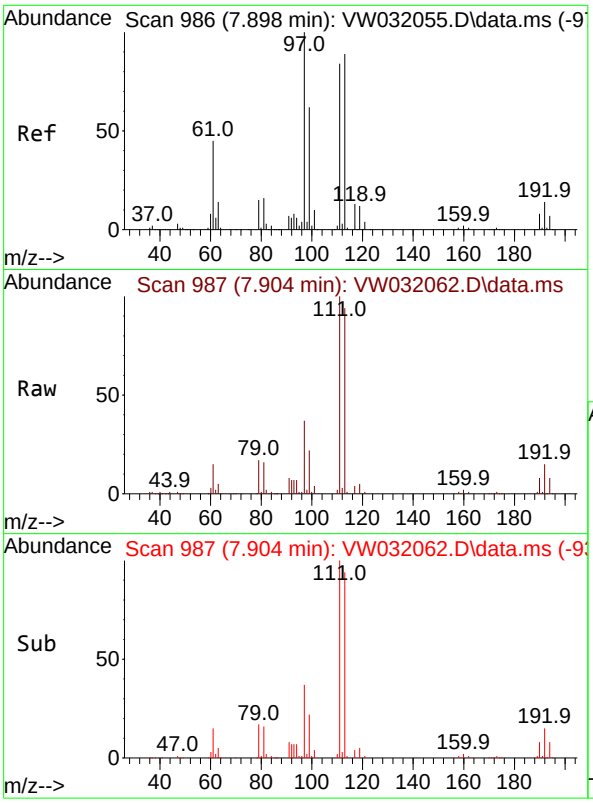




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:114 Resp: 441696

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.4 | 0.0 | 43.0 |
| 88 | 16.0 | 0.0 | 33.8 |



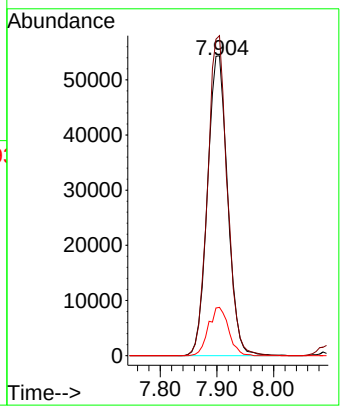


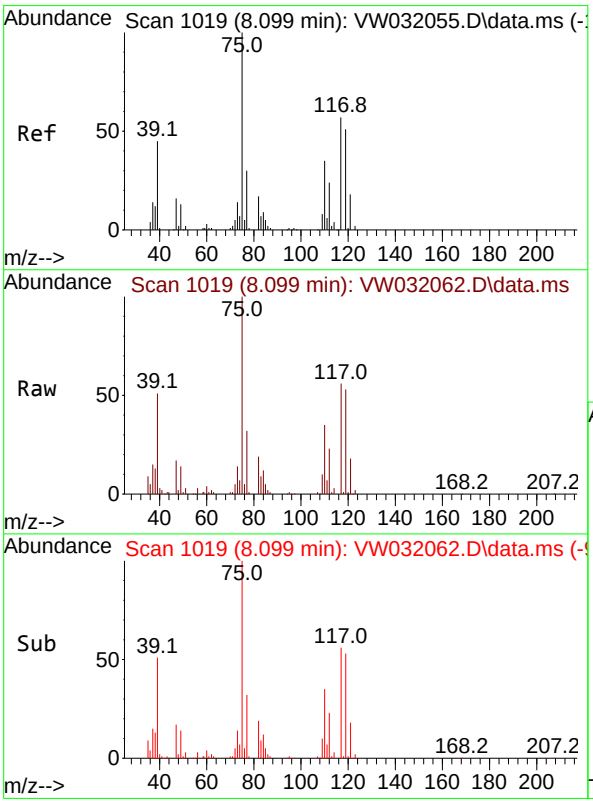

#35
Dibromofluoromethane
Concen: 47.032 ug/l
RT: 7.904 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion:113 Resp: 134207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.7 | 80.1 | 120.1 |
| 192 | 16.1 | 13.1 | 19.7 |

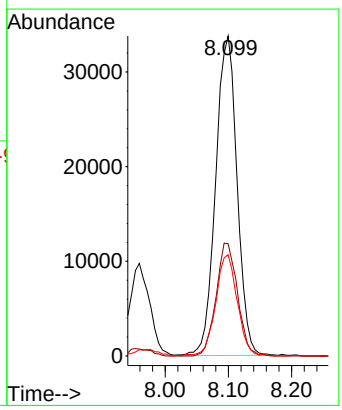


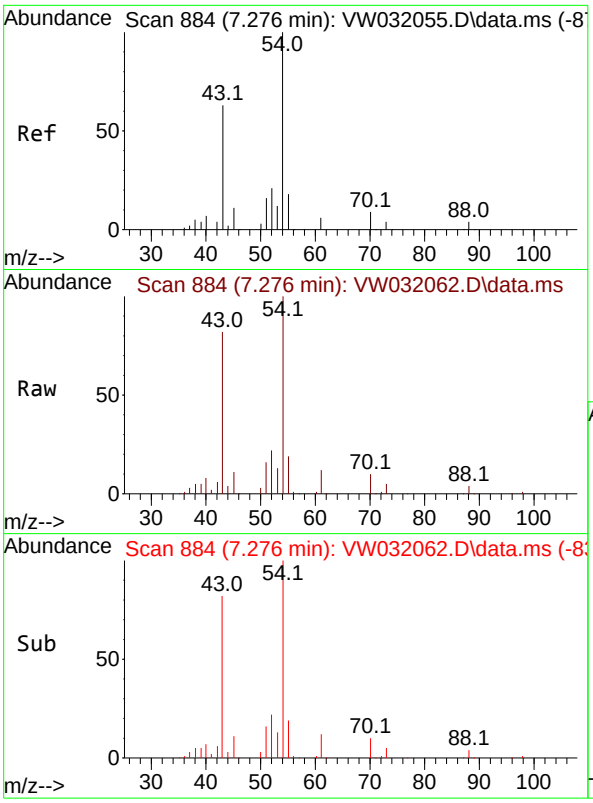




#36
1,1-Dichloropropene
Concen: 19.708 ug/l
RT: 8.099 min Scan# 1019
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 75 Resp: 79280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.3 | 17.4 | 52.2 |
| 77 | 31.9 | 24.7 | 37.1 |



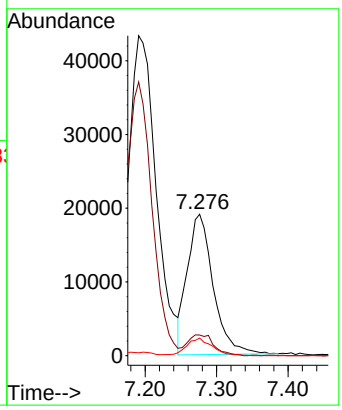


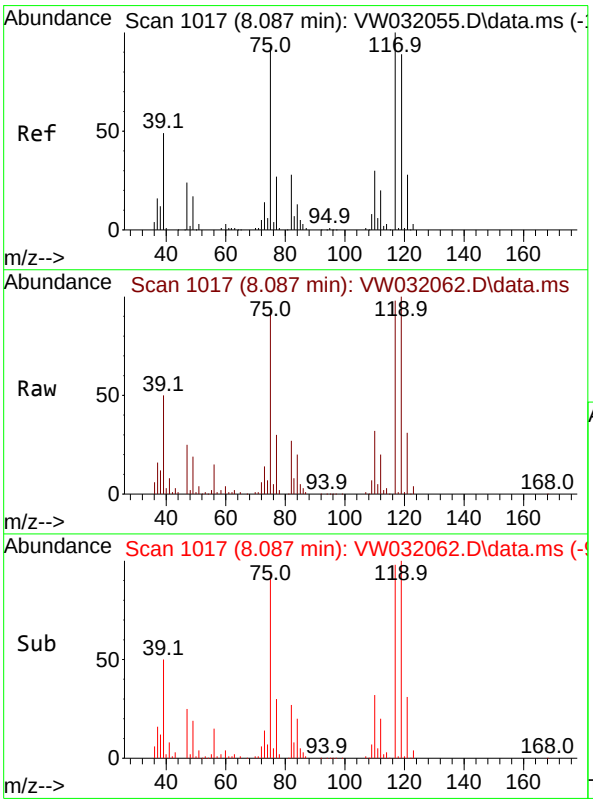

#37
Ethyl Acetate
Concen: 20.284 ug/l
RT: 7.276 min Scan# 8
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion: 43 Resp: 48057

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 15.5 | 11.8 | 17.6 |
| 70 | 12.2 | 9.4 | 14.0 |

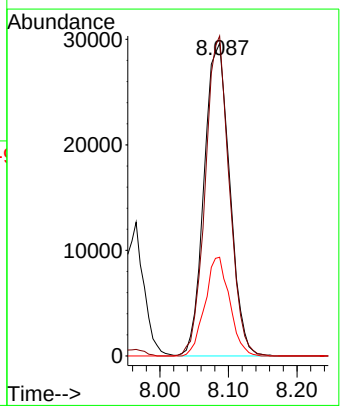


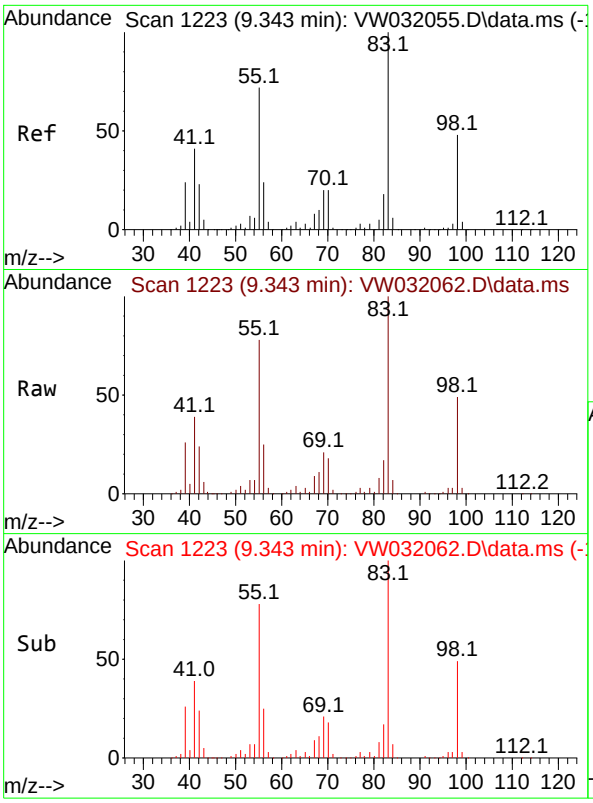




#38
Carbon Tetrachloride
Concen: 19.825 ug/l
RT: 8.087 min Scan# 1017
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:117 Resp: 76962

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 102.4 | 71.4 | 107.2 |
| 121 | 31.6 | 22.3 | 33.5 |



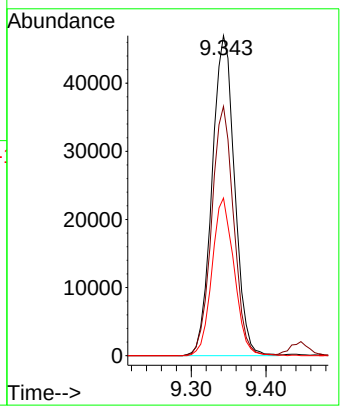


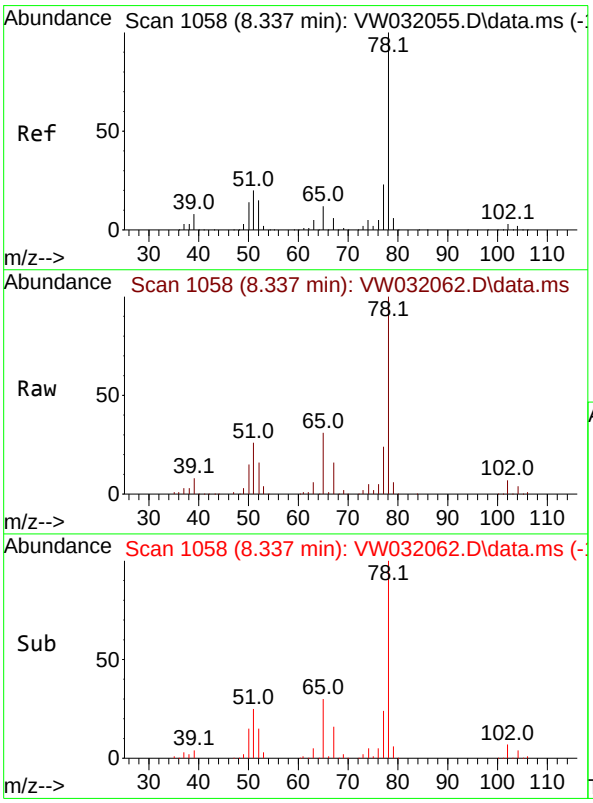

#39
Methylcyclohexane
Concen: 20.117 ug/l
RT: 9.343 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion: 83 Resp: 98634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 77.9 | 57.9 | 86.9 |
| 98 | 49.2 | 38.3 | 57.5 |

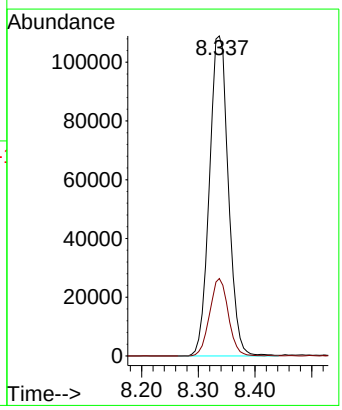


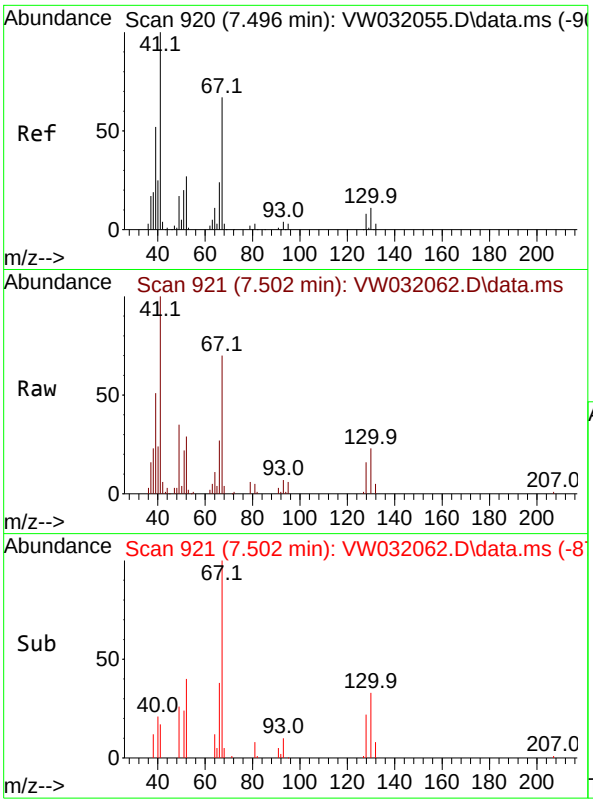




#40
Benzene
Concen: 20.229 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 78 Resp: 252942

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.2 | 18.4 | 27.6 |



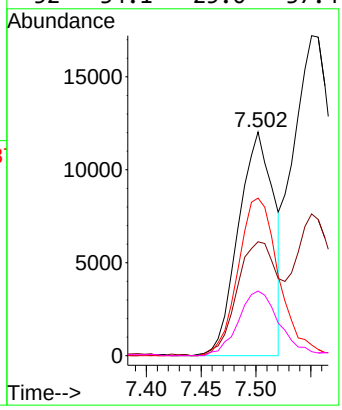


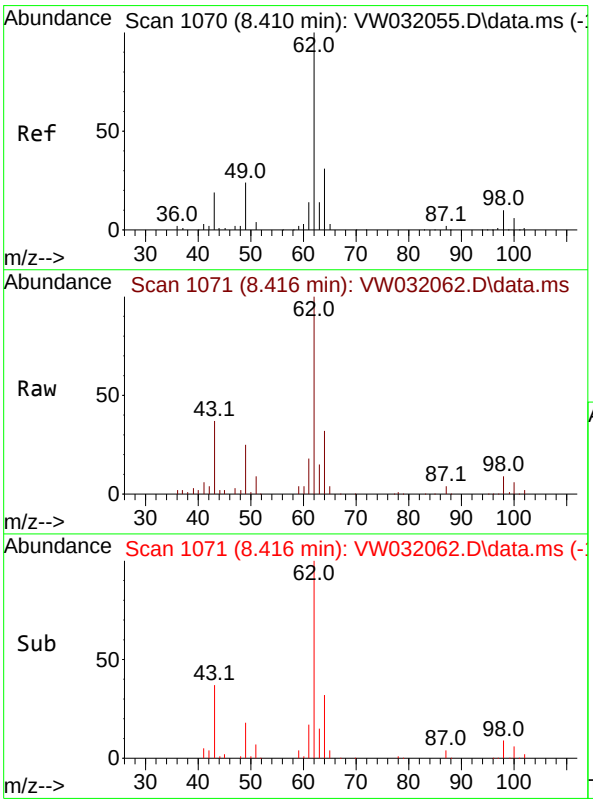

#41
Methacrylonitrile
Concen: 20.188 ug/l
RT: 7.502 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion: 41 Resp: 27124

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 60.3 | 42.6 | 63.8 |
| 67 | 81.2 | 61.0 | 91.4 |
| 52 | 34.1 | 25.0 | 37.4 |

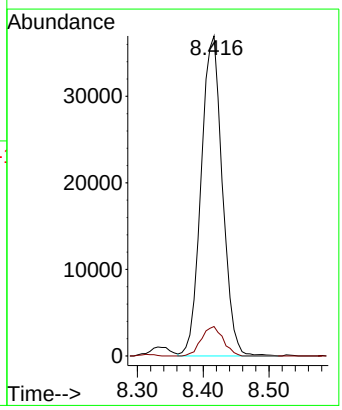


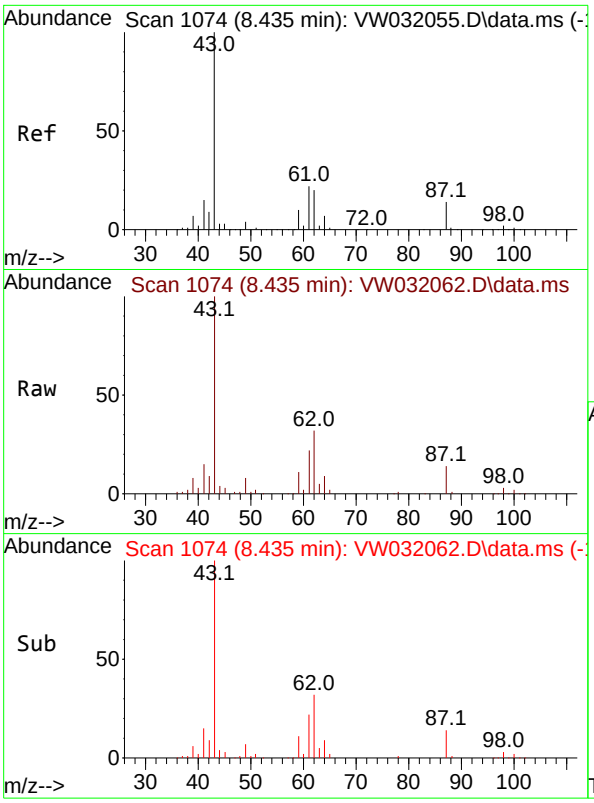




#42
1,2-Dichloroethane
Concen: 20.784 ug/l
RT: 8.416 min Scan# 1071
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 62 Resp: 83160

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.4 | 0.0 | 19.8 |



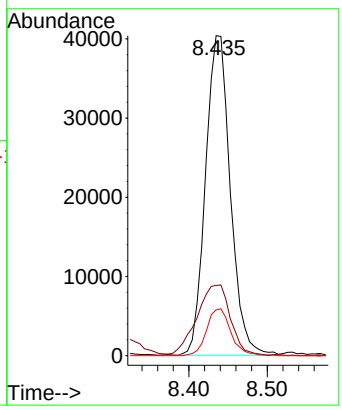


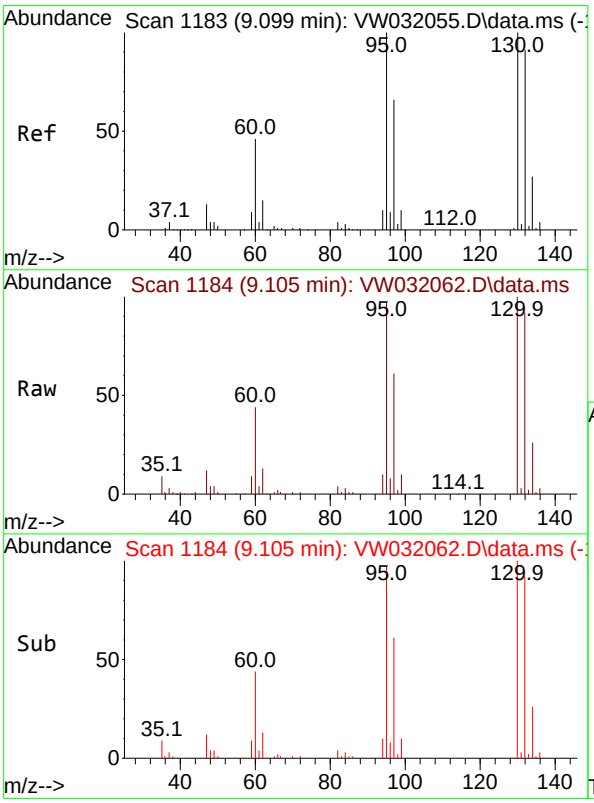

#43
Isopropyl Acetate
Concen: 20.393 ug/l
RT: 8.435 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion: 43 Resp: 88890

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 30.0 | 23.8 | 35.8 |
| 87 | 14.3 | 11.7 | 17.5 |

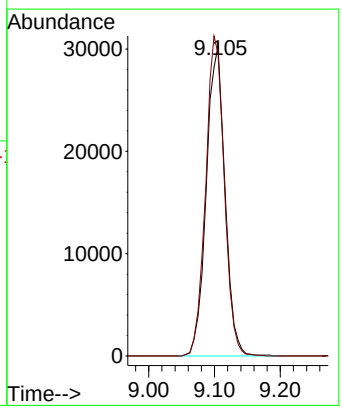


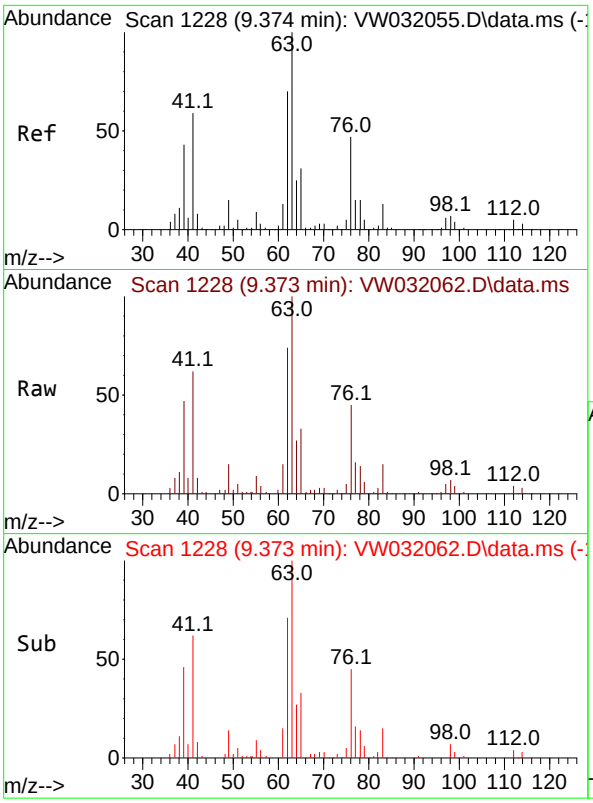




#44
Trichloroethene
Concen: 20.095 ug/l
RT: 9.105 min Scan# 1184
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:130 Resp: 59840

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 97.4 | 0.0 | 200.6 |



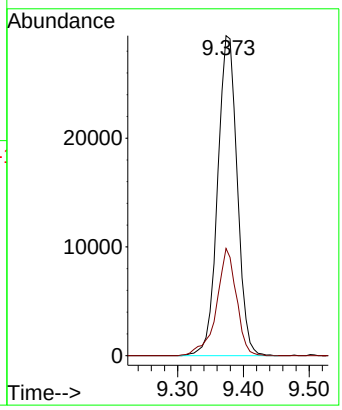


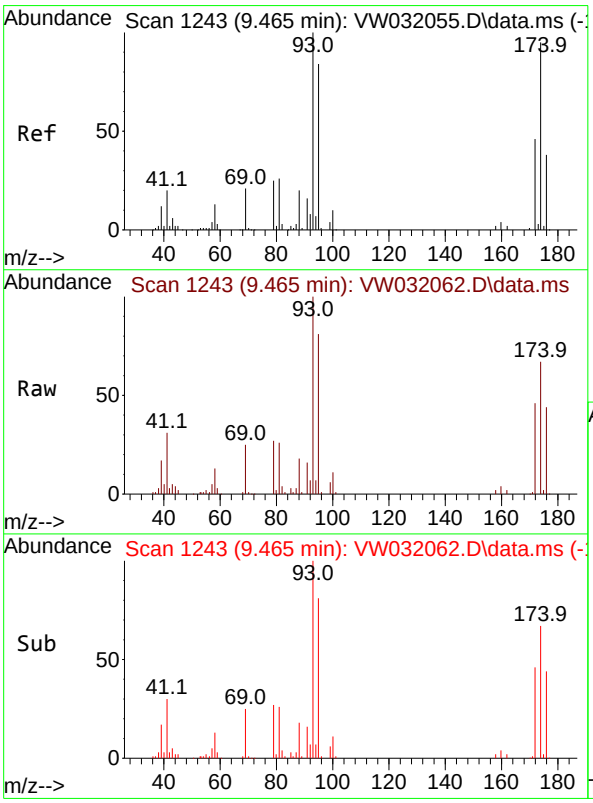

#45
1,2-Dichloropropane
Concen: 20.135 ug/l
RT: 9.373 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion: 63 Resp: 60825

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 33.5 | 24.6 | 36.8 |

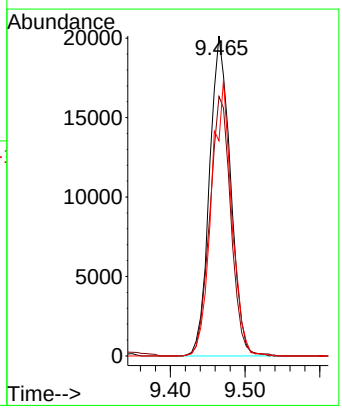


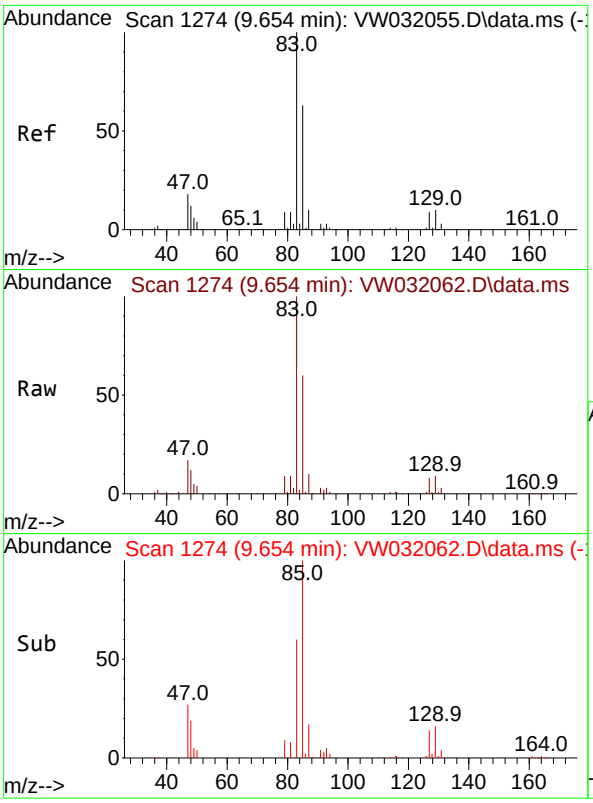




#46
Dibromomethane
Concen: 20.151 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 93 Resp: 39289

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 81.3 | 65.3 | 97.9 |
| 174 | 83.3 | 68.6 | 102.8 |



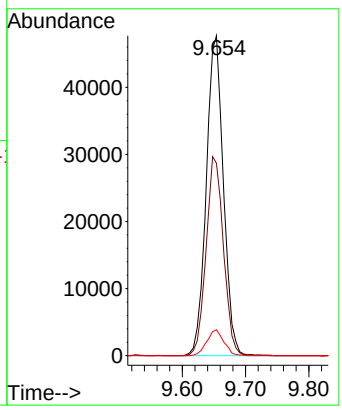


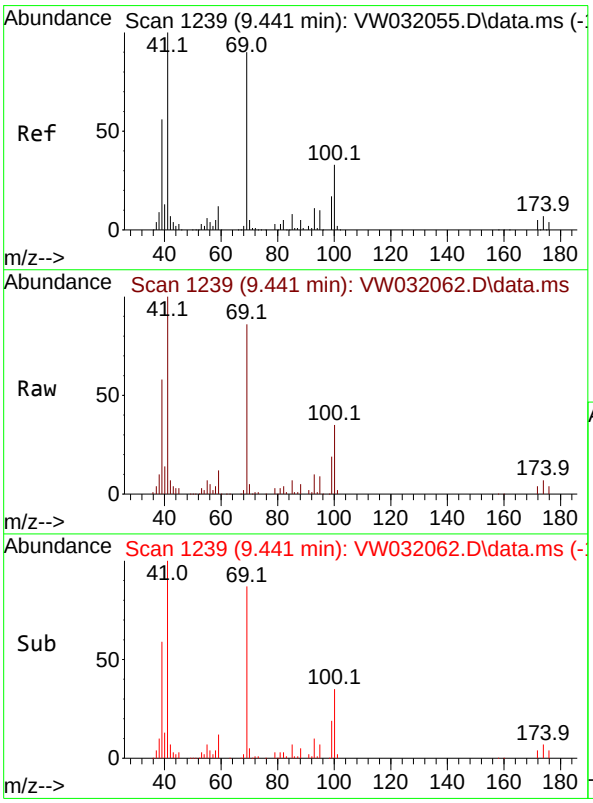

#47
Bromodichloromethane
Concen: 19.980 ug/l
RT: 9.654 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion: 83 Resp: 89761

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 60.2 | 50.6 | 75.8 |
| 127 | 8.1 | 6.9 | 10.3 |

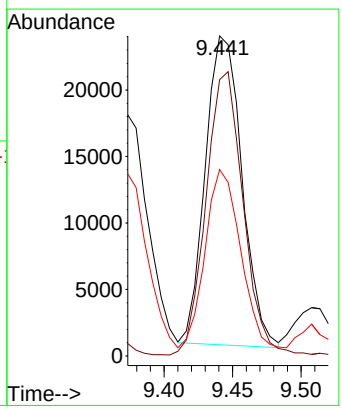


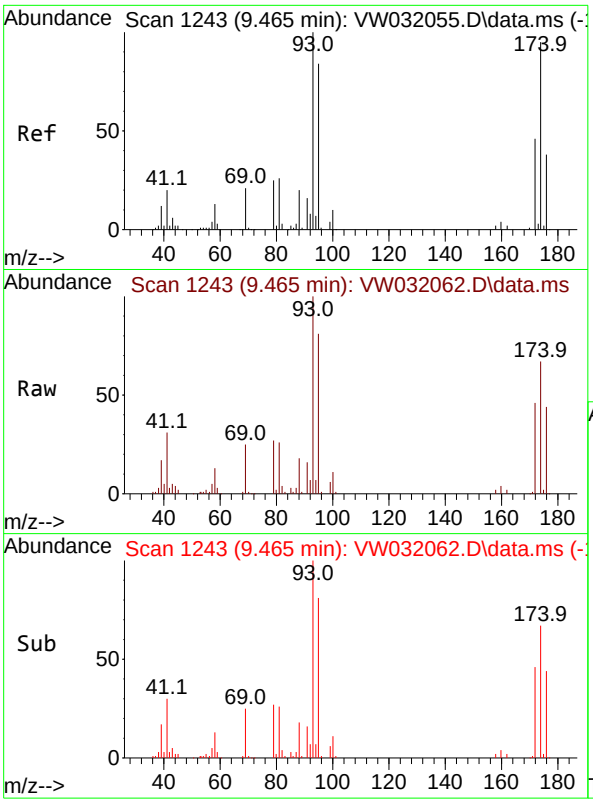




#48
Methyl methacrylate
Concen: 20.539 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 41 Resp: 43222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 93.2 | 73.0 | 109.6 |
| 39 | 56.3 | 45.0 | 67.4 |



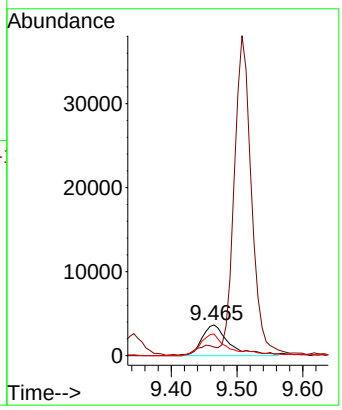


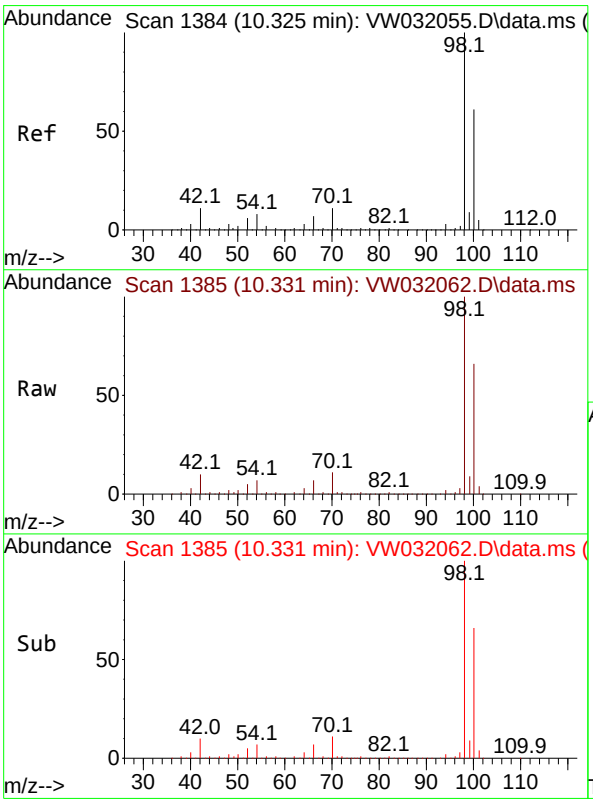

#49
1,4-Dioxane
Concen: 419.936 ug/l
RT: 9.465 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion: 88 Resp: 10586

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 23.5 | 20.6 | 30.8 |
| 58 | 61.8 | 60.4 | 90.6 |

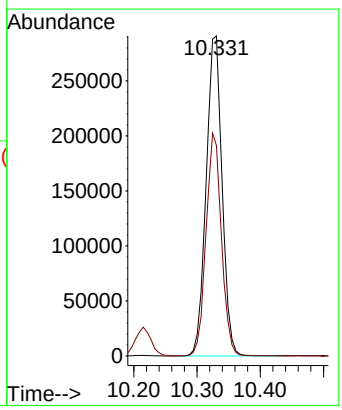


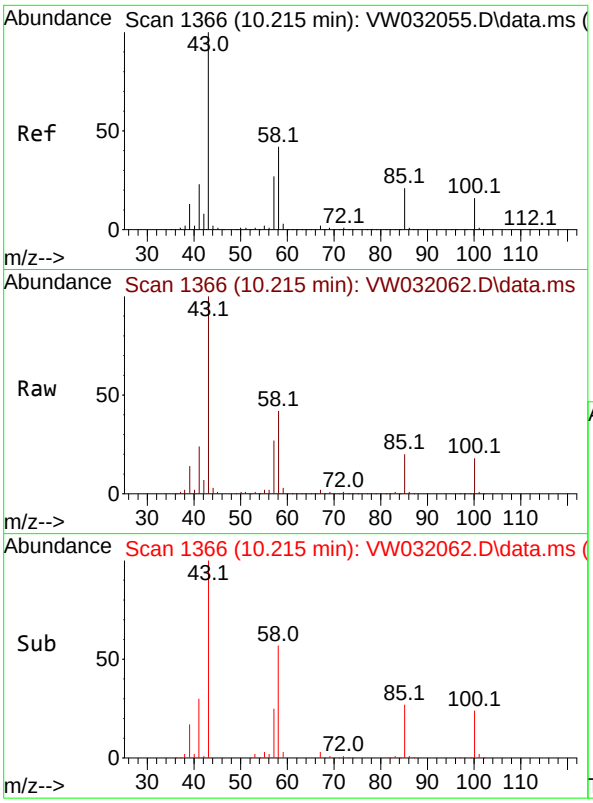




#50
Toluene-d8
Concen: 48.296 ug/l
RT: 10.331 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 98 Resp: 509734

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 67.2 | 51.1 | 76.7 |



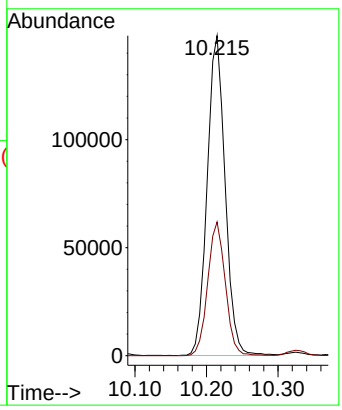


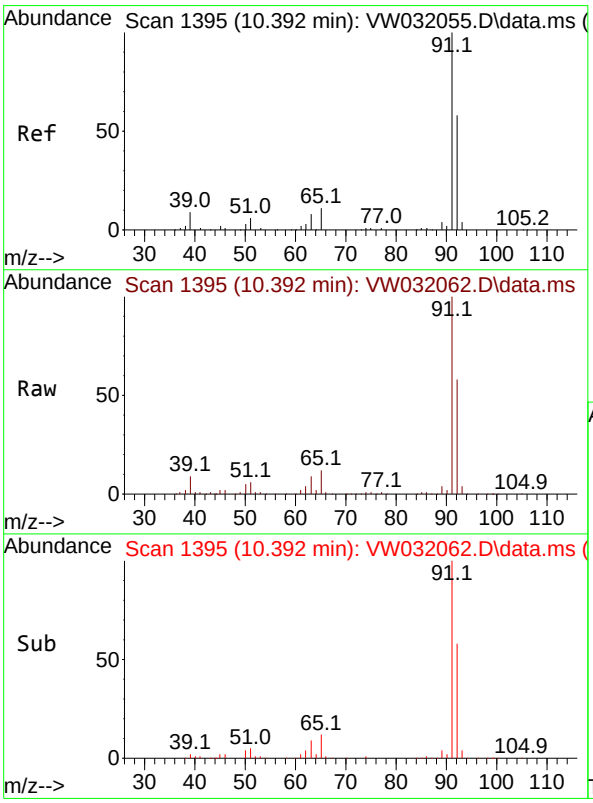

#51
4-Methyl-2-Pentanone
Concen: 104.852 ug/l
RT: 10.215 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion: 43 Resp: 257970

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 41.1 | 33.1 | 49.7 |

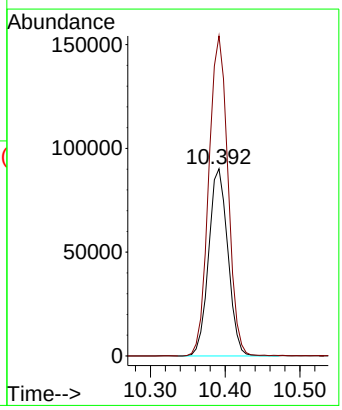


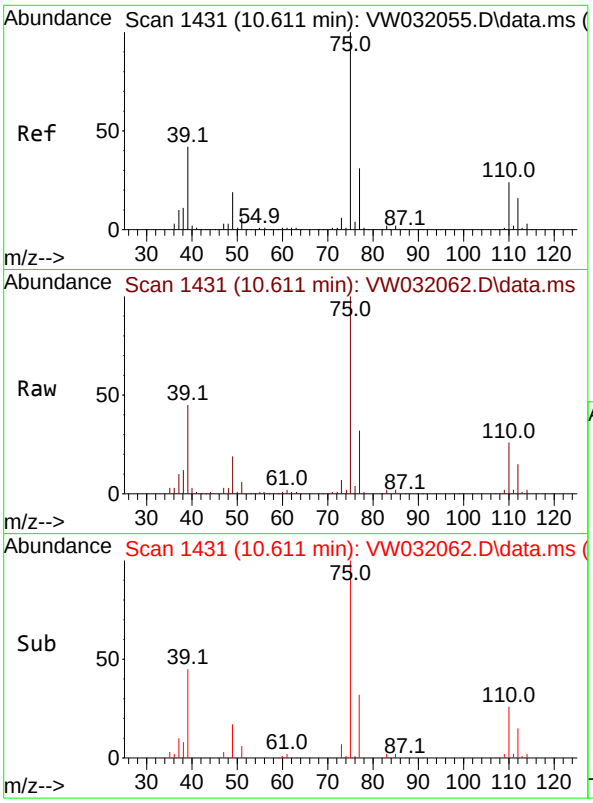




#52
Toluene
Concen: 20.465 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 92 Resp: 161185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 170.9 | 136.3 | 204.5 |



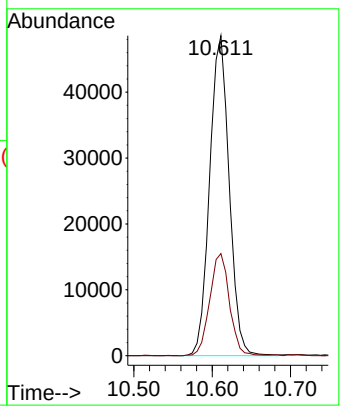


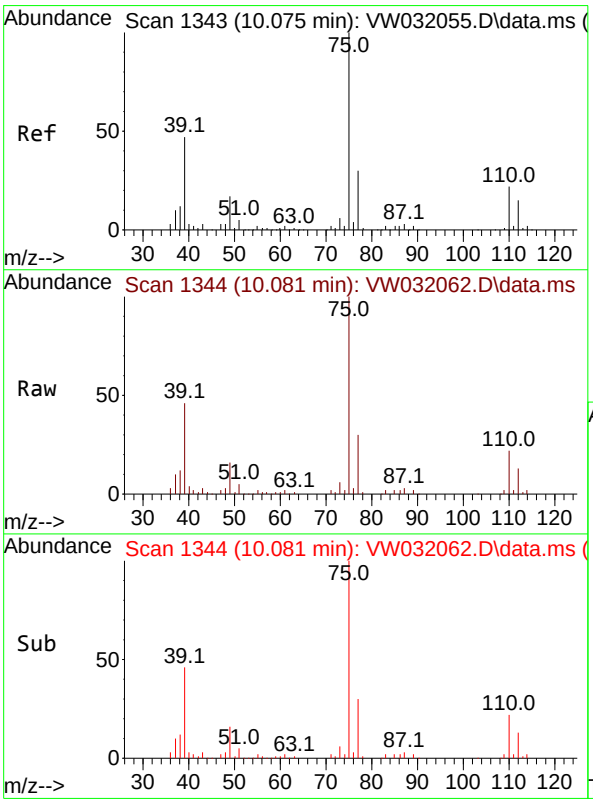

#53
t-1,3-Dichloropropene
Concen: 19.991 ug/l
RT: 10.611 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion: 75 Resp: 84143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.9 | 25.0 | 37.6 |

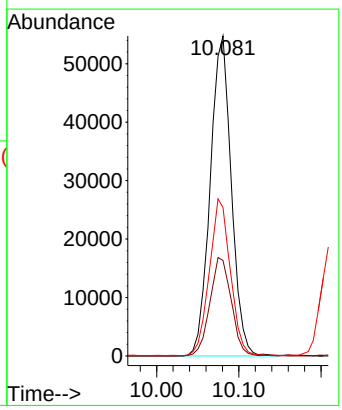


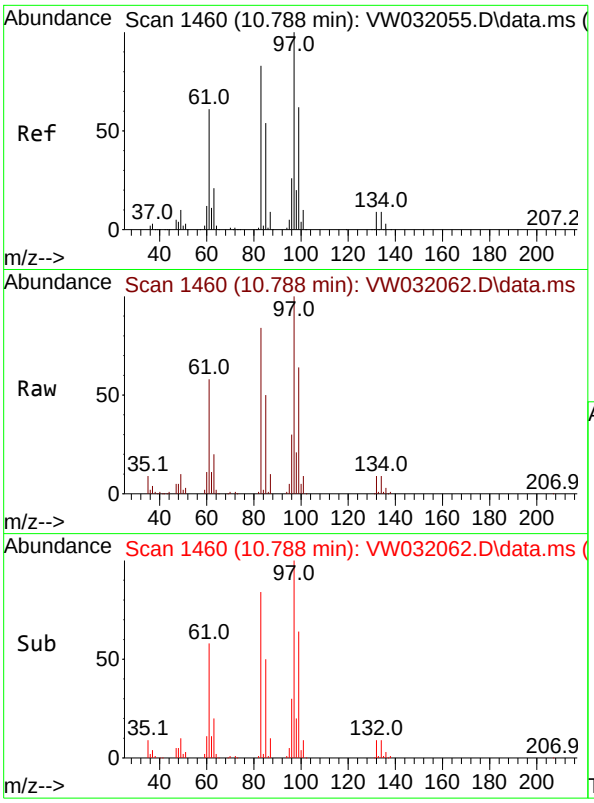




#54
cis-1,3-Dichloropropene
Concen: 20.444 ug/l
RT: 10.081 min Scan# 1344
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 75 Resp: 97621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 29.9 | 24.0 | 36.0 |
| 39 | 46.2 | 37.8 | 56.8 |



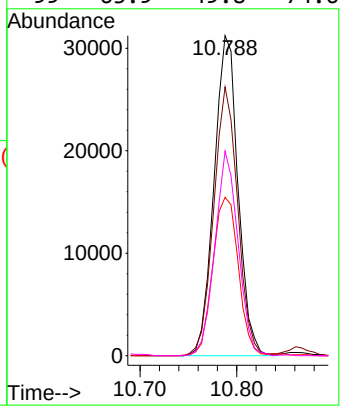


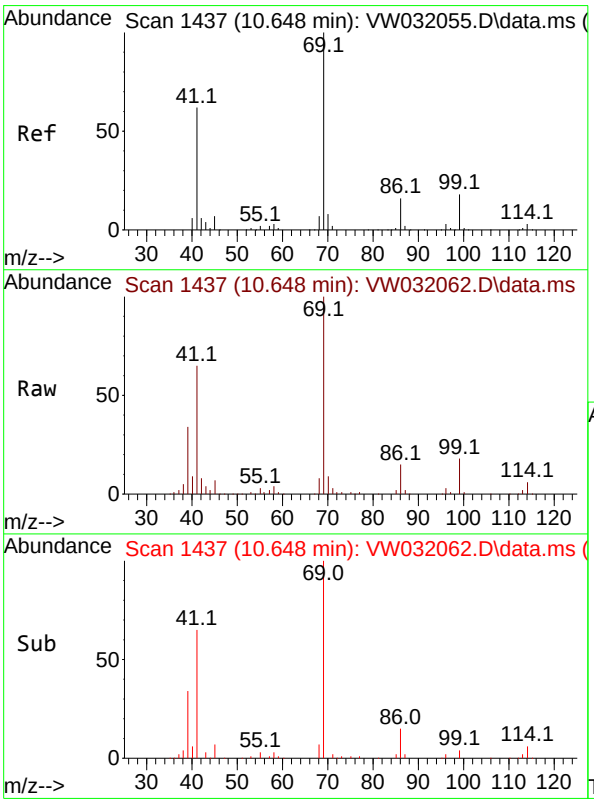

#55
1,1,2-Trichloroethane
Concen: 20.722 ug/l
RT: 10.788 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion: 97 Resp: 53687

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 84.0 | 66.4 | 99.6 |
| 85 | 49.5 | 43.1 | 64.7 |
| 99 | 63.9 | 49.8 | 74.6 |

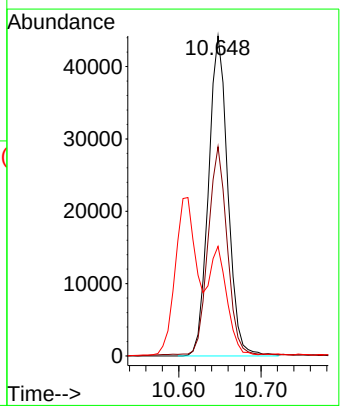


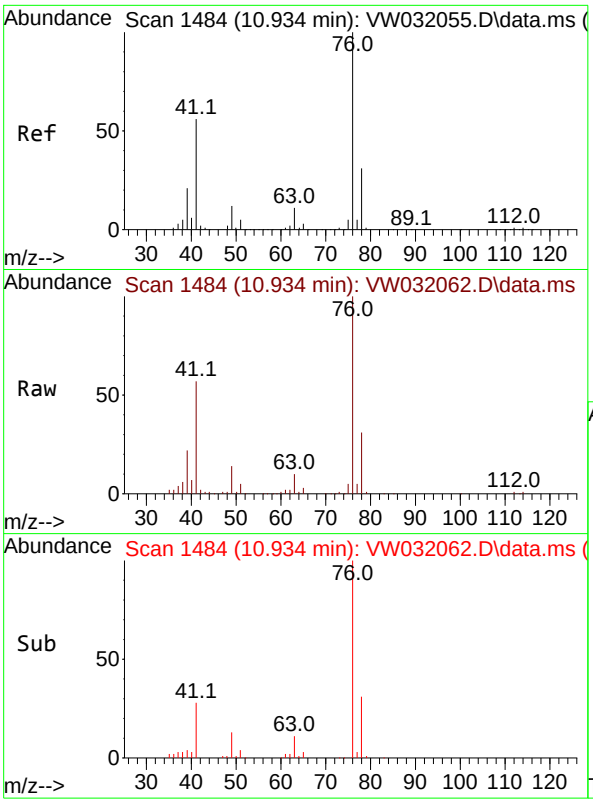




#56
Ethyl methacrylate
Concen: 20.854 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 69 Resp: 72299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 66.8 | 51.2 | 76.8 |
| 39 | 31.4 | 25.4 | 38.0 |



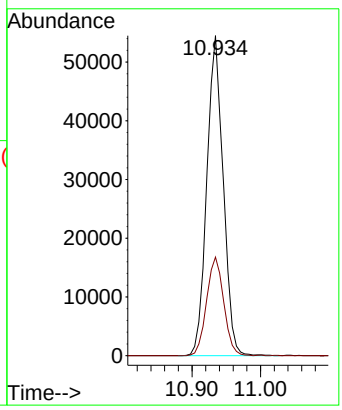


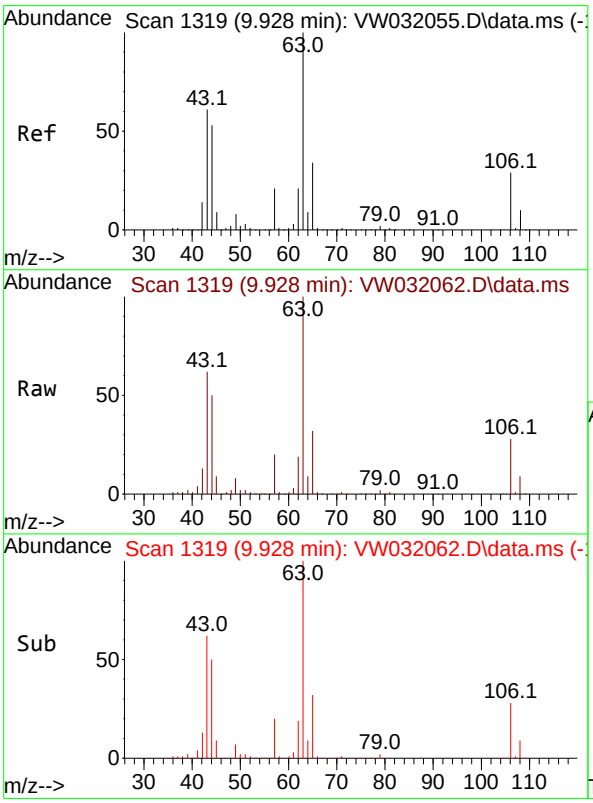

#57
1,3-Dichloropropane
Concen: 20.061 ug/l
RT: 10.934 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion: 76 Resp: 90595

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.2 | 25.8 | 38.6 |

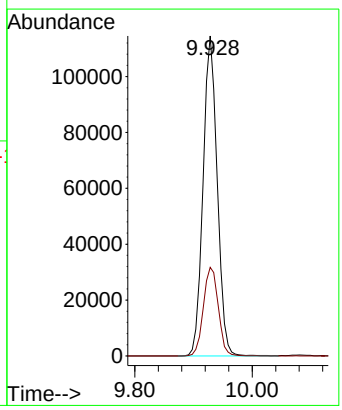


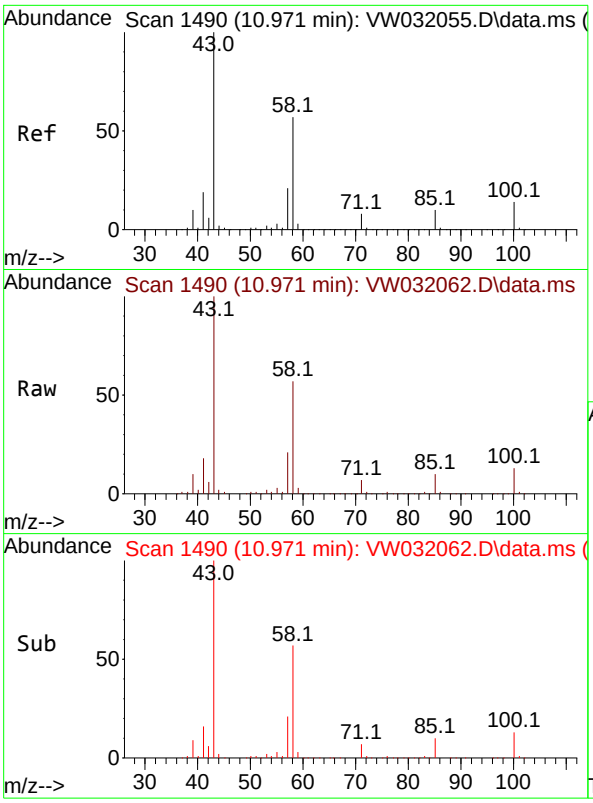




#58
2-Chloroethyl Vinyl ether
Concen: 100.139 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 63 Resp: 192035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 29.1 | 23.5 | 35.3 |



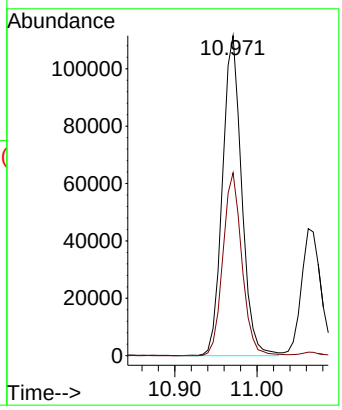


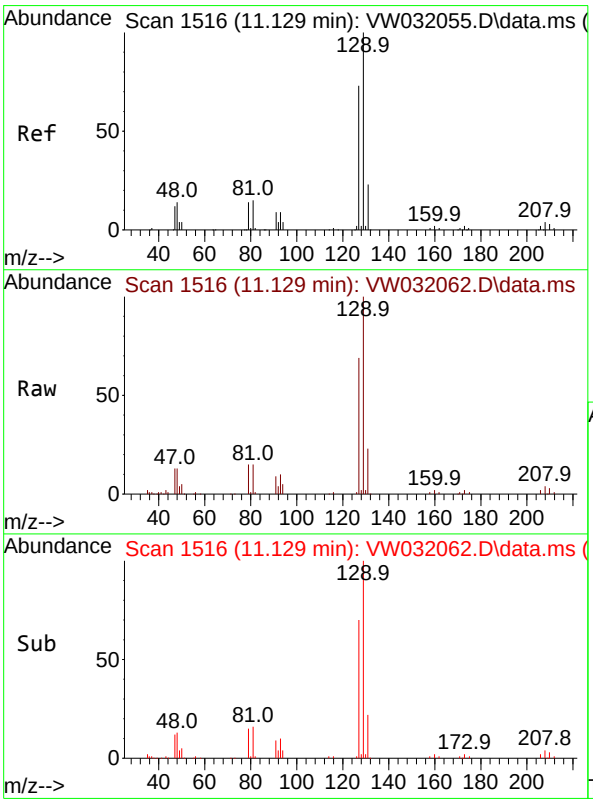

#59
2-Hexanone
Concen: 106.193 ug/l
RT: 10.971 min Scan# 14
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion: 43 Resp: 180946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 56.7 | 28.3 | 85.0 |

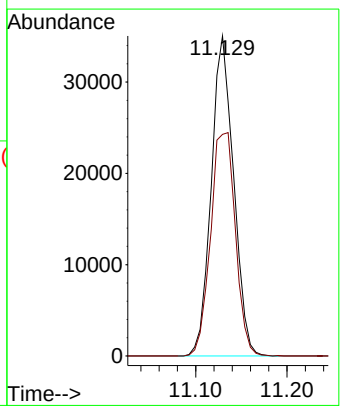


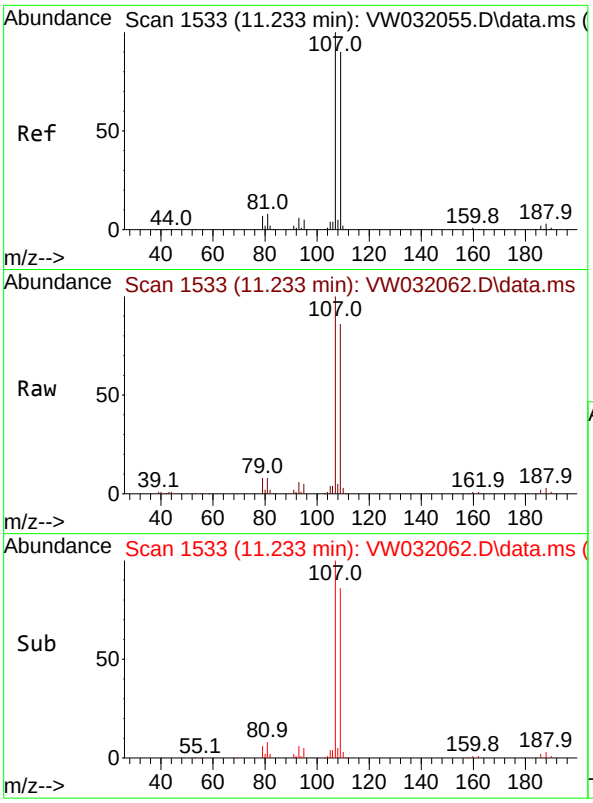




#60
Dibromochloromethane
Concen: 20.081 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:129 Resp: 59430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.8 | 39.0 | 116.9 |



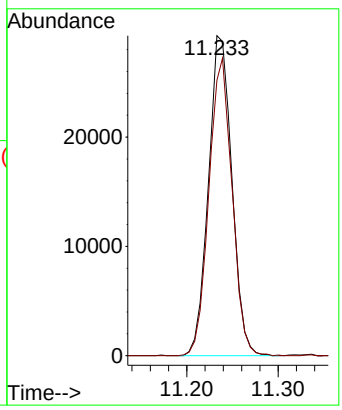


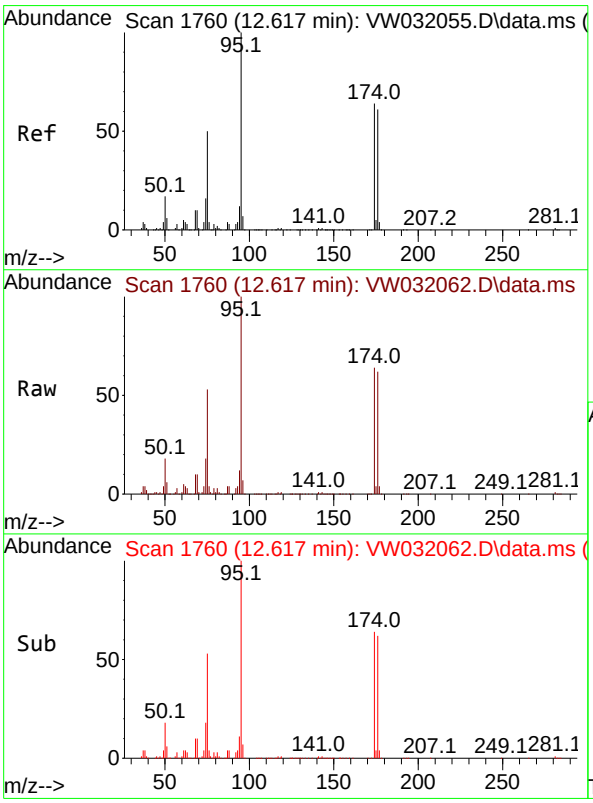

#61
1,2-Dibromoethane
Concen: 20.693 ug/l
RT: 11.233 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion:107 Resp: 52100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 91.7 | 74.2 | 111.4 |

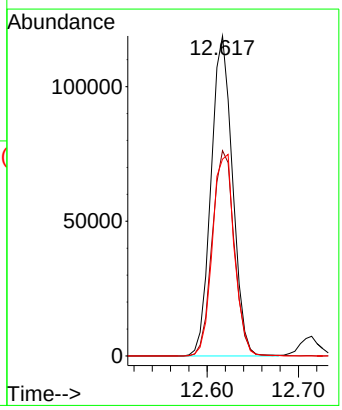


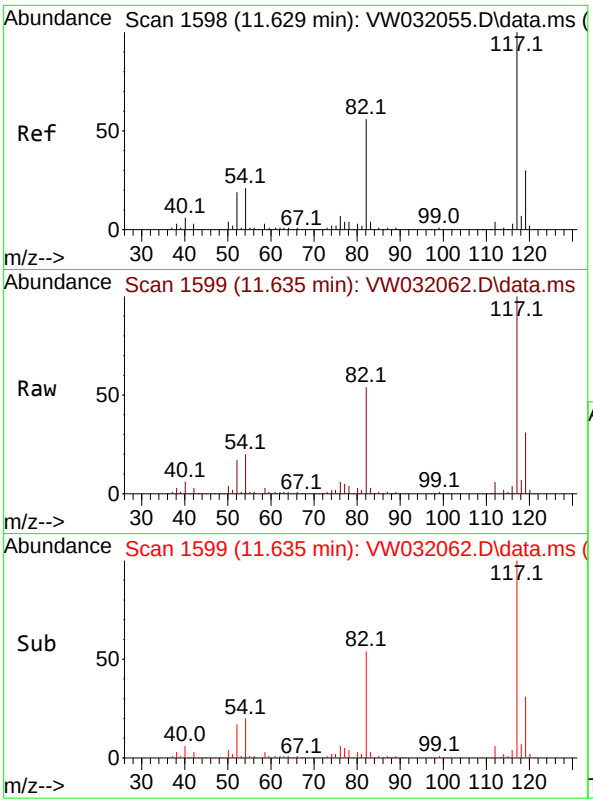




#62
4-Bromofluorobenzene
Concen: 49.782 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 95 Resp: 193625

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 65.9 | 0.0 | 129.0 |
| 176 | 64.6 | 0.0 | 124.6 |



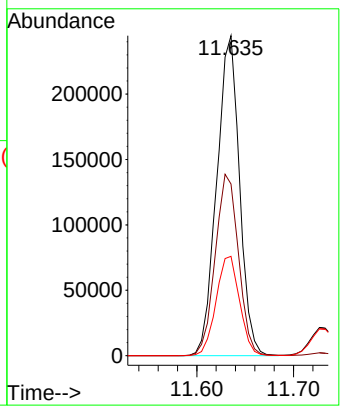


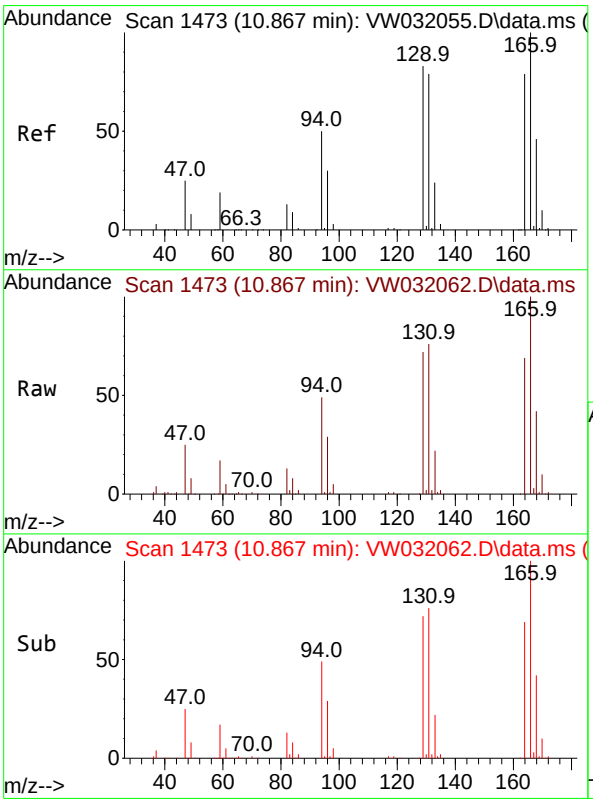

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion:117 Resp: 400240

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 53.6 | 45.0 | 67.4 |
| 119 | 31.1 | 24.2 | 36.4 |

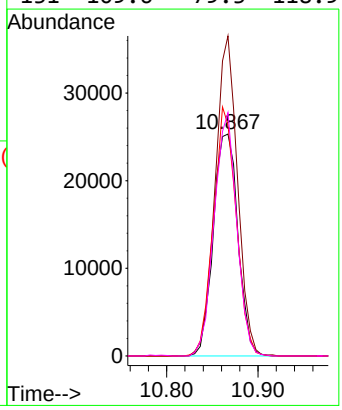


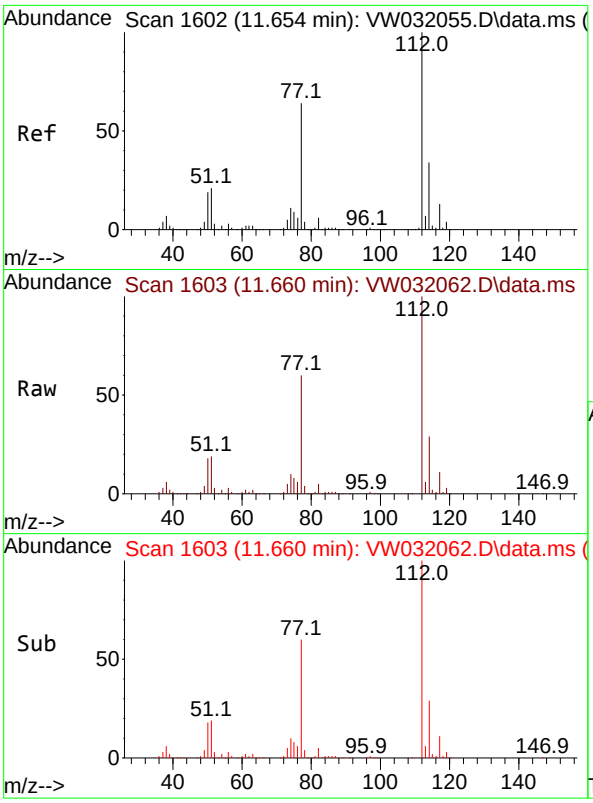




#64
Tetrachloroethene
Concen: 20.534 ug/l
RT: 10.867 min Scan# 1473
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:164 Resp: 47470

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 144.2 | 100.9 | 151.3 |
| 129 | 104.1 | 83.6 | 125.4 |
| 131 | 109.6 | 79.3 | 118.9 |



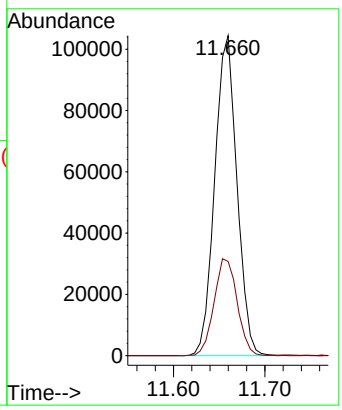


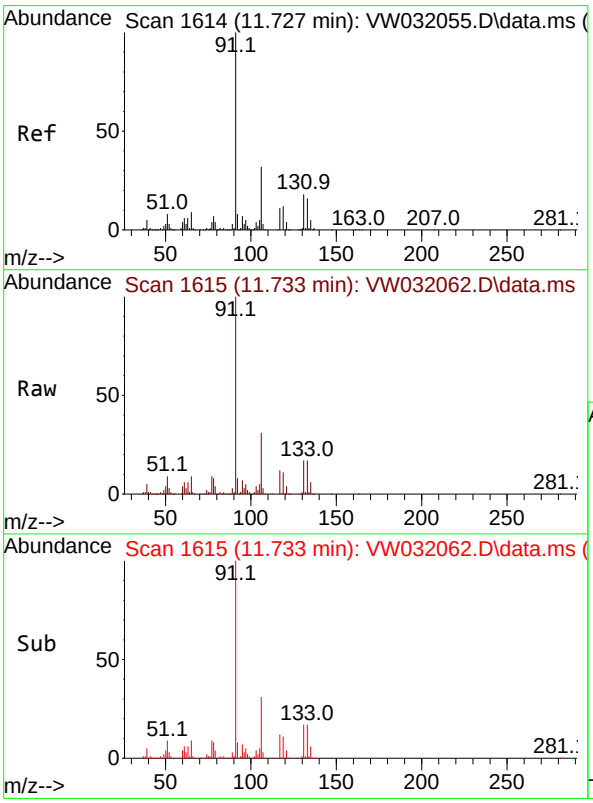

#65
Chlorobenzene
Concen: 20.247 ug/l
RT: 11.660 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion:112 Resp: 176392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 29.5 | 26.9 | 40.3 |

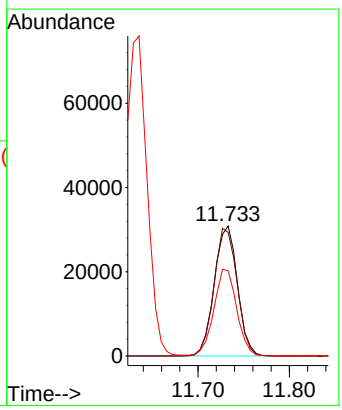


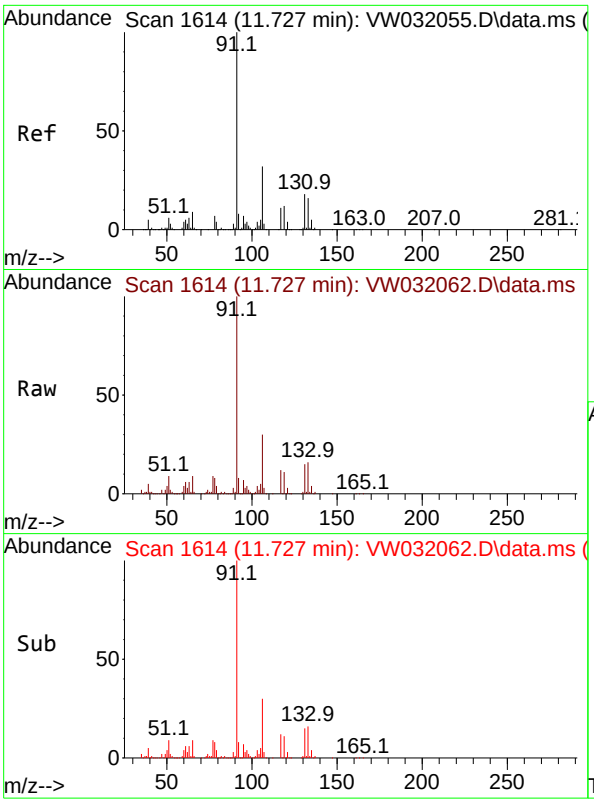




#66
1,1,1,2-Tetrachloroethane
Concen: 19.988 ug/l
RT: 11.733 min Scan# 1615
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:131 Resp: 54330

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 97.9 | 47.3 | 142.0 |
| 119 | 65.8 | 34.5 | 103.5 |



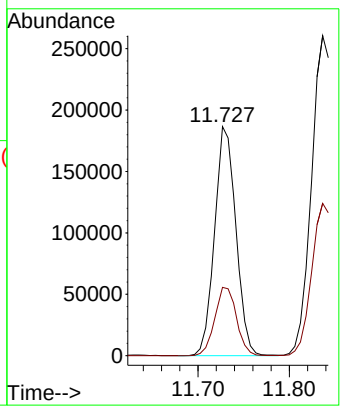


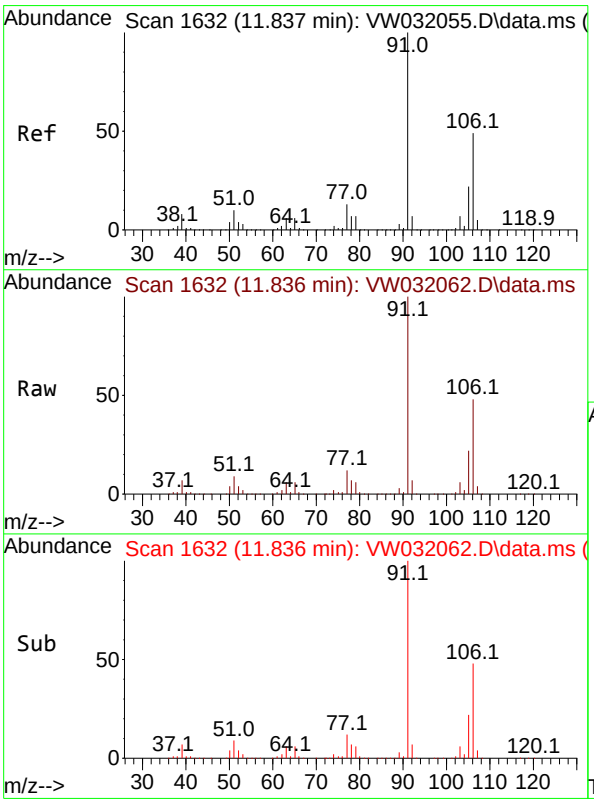

#67
Ethyl Benzene
Concen: 20.500 ug/l
RT: 11.727 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion: 91 Resp: 302504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.8 | 25.4 | 38.0 |

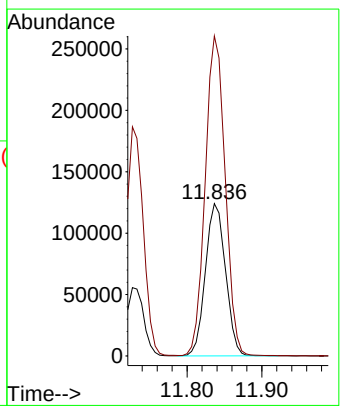


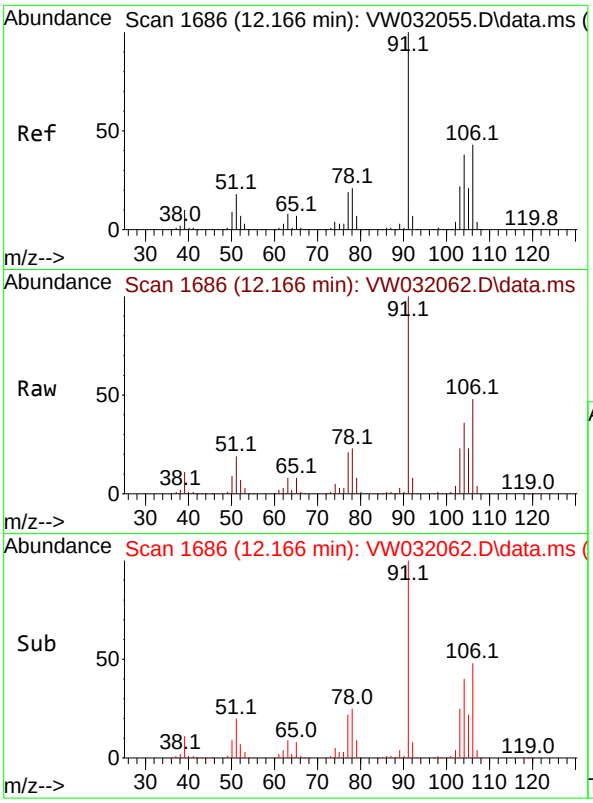




#68
m/p-Xylenes
Concen: 40.725 ug/l
RT: 11.836 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:106 Resp: 231893

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 208.5 | 162.2 | 243.2 |



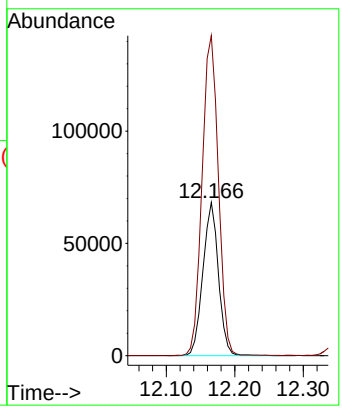


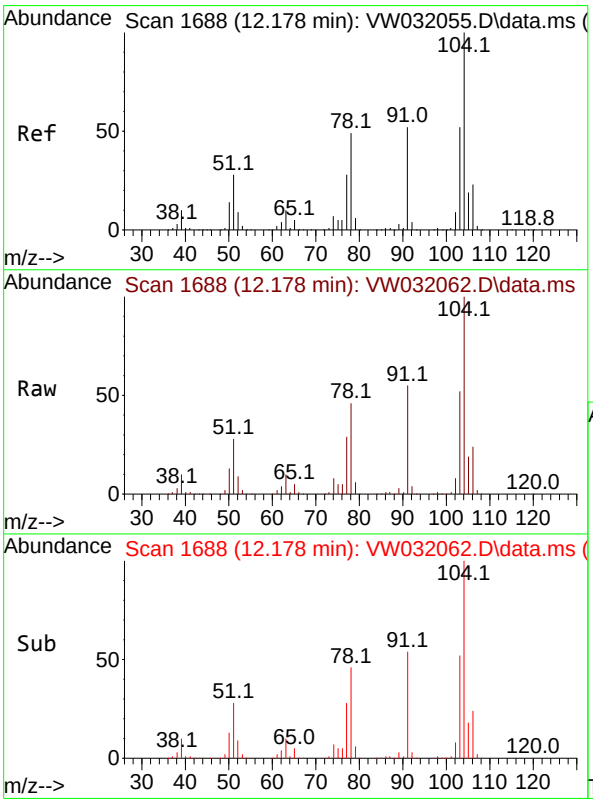

#69
o-Xylene
Concen: 20.434 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion:106 Resp: 107543

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 220.1 | 110.8 | 332.3 |

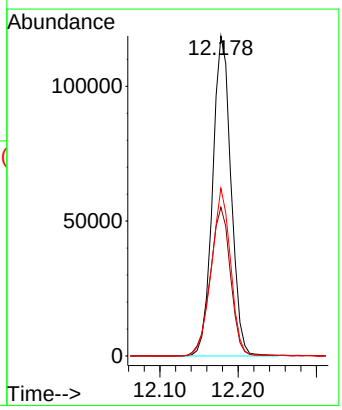


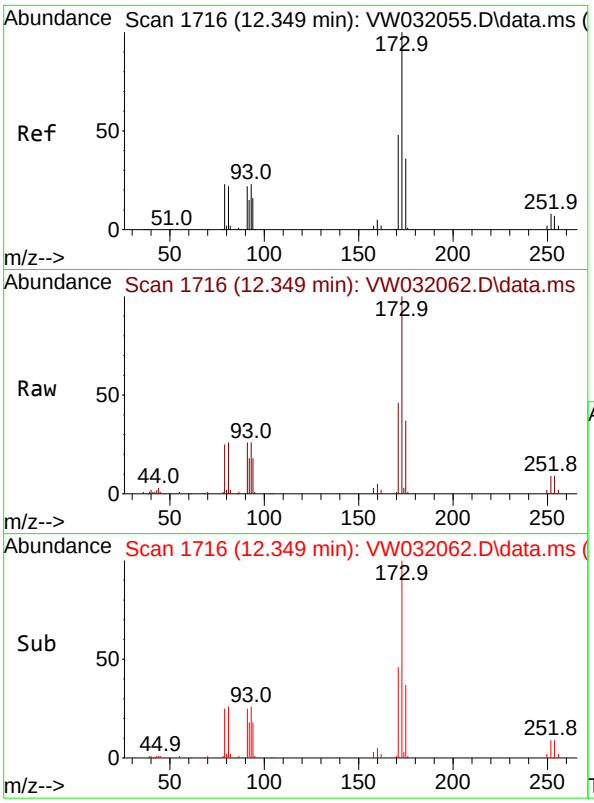




#70
Styrene
Concen: 20.761 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:104 Resp: 194078

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 51.2 | 41.2 | 61.8 |
| 103 | 54.8 | 43.8 | 65.8 |



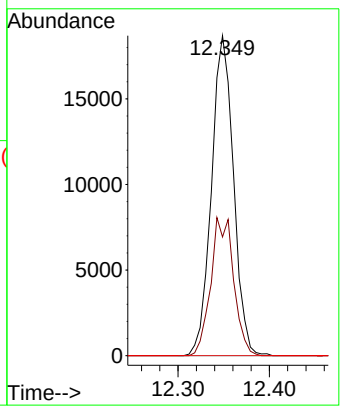


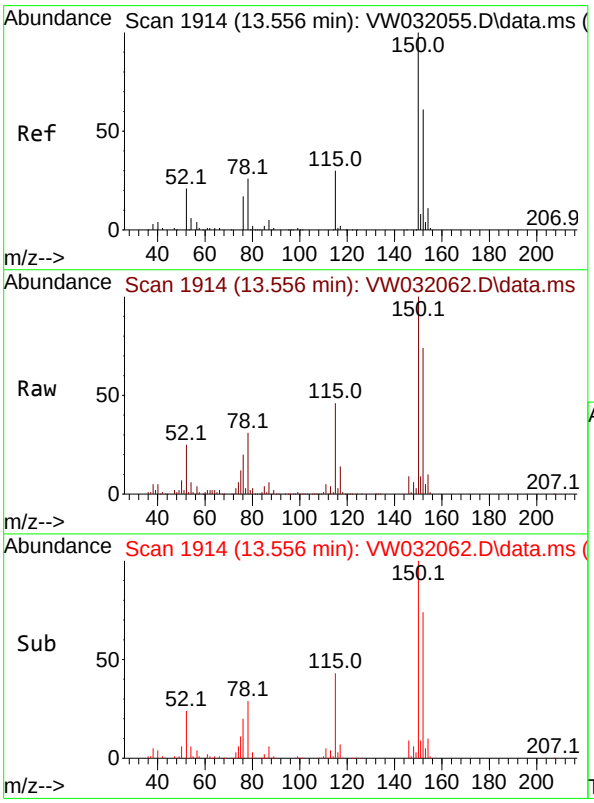

#71
Bromoform
Concen: 20.163 ug/l
RT: 12.349 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion:173 Resp: 31350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 44.8 | 22.9 | 68.7 |
| 254 | 0.0 | 0.0 | 0.0 |

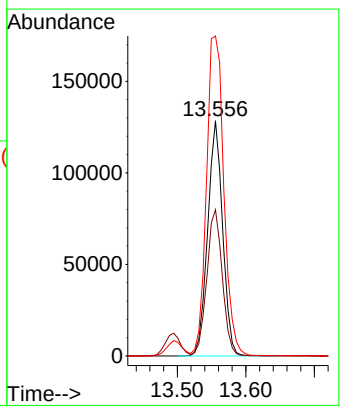


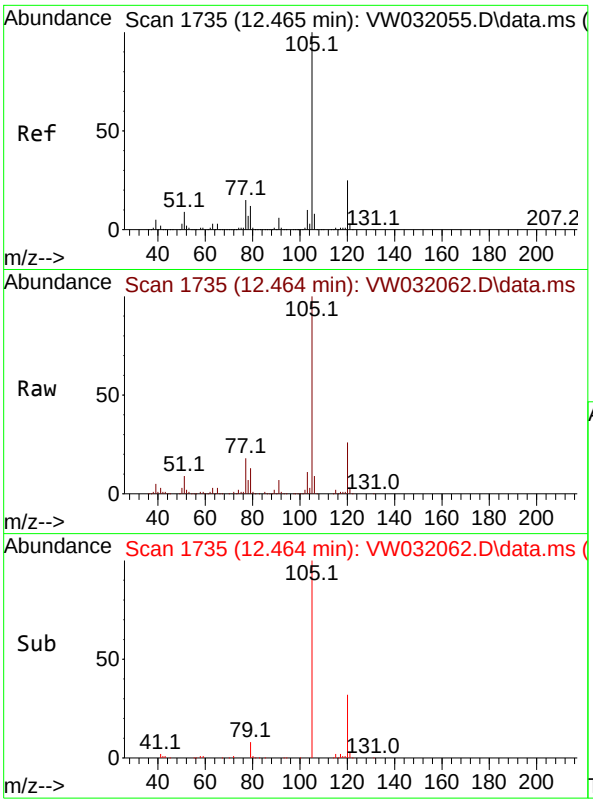




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:152 Resp: 195548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 64.4 | 32.6 | 97.8 |
| 150 | 157.8 | 0.0 | 359.4 |



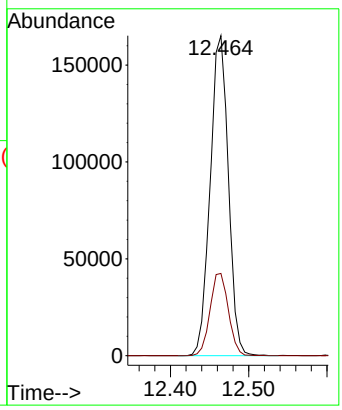


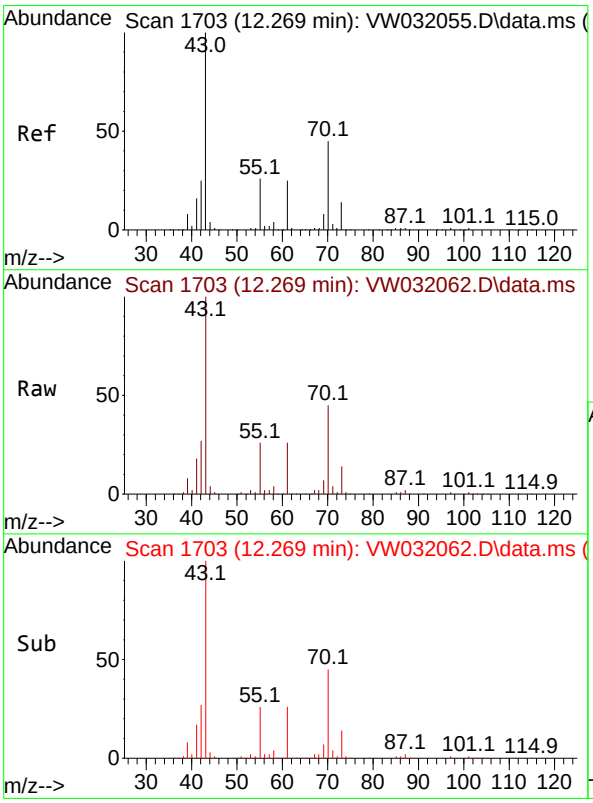

#73
Isopropylbenzene
Concen: 19.494 ug/l
RT: 12.464 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion:105 Resp: 266409

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.9 | 12.8 | 38.4 |

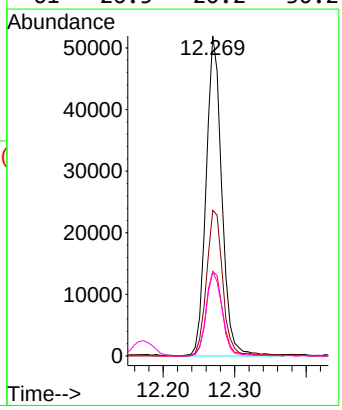


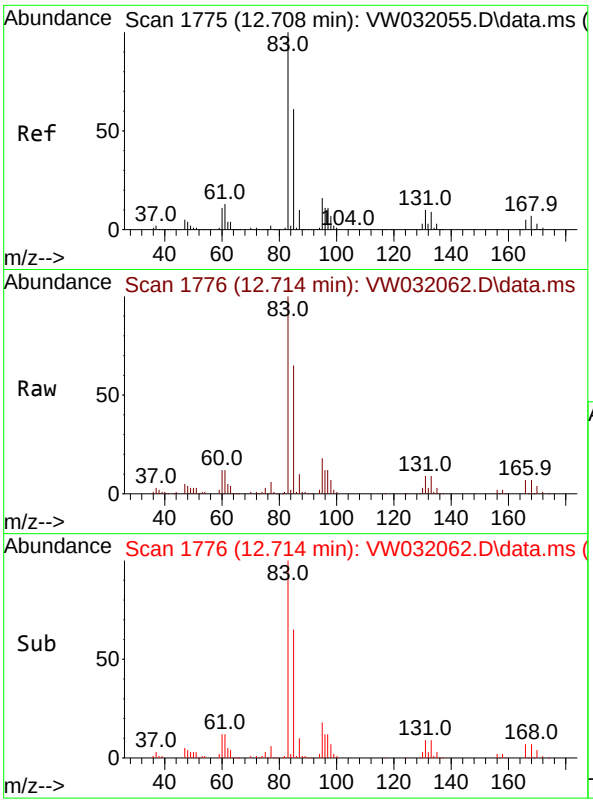




#74
N-amyl acetate
Concen: 20.275 ug/l
RT: 12.269 min Scan# 1703
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 43 Resp: 79492

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 46.9 | 37.0 | 55.4 |
| 55 | 28.4 | 21.1 | 31.7 |
| 61 | 26.5 | 20.2 | 30.2 |



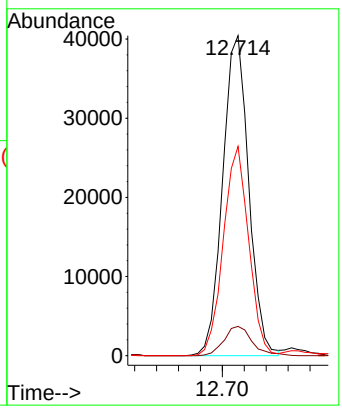


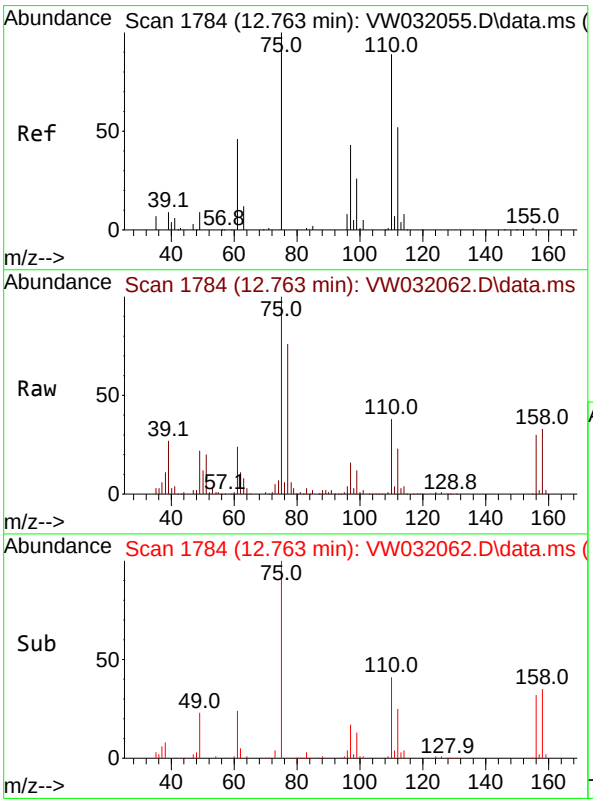

#75
1,1,2,2-Tetrachloroethane
Concen: 20.539 ug/l
RT: 12.714 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion: 83 Resp: 66644

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.9 | 5.1 | 15.4 |
| 85 | 63.7 | 32.2 | 96.6 |

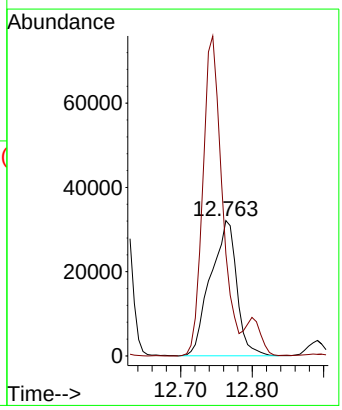


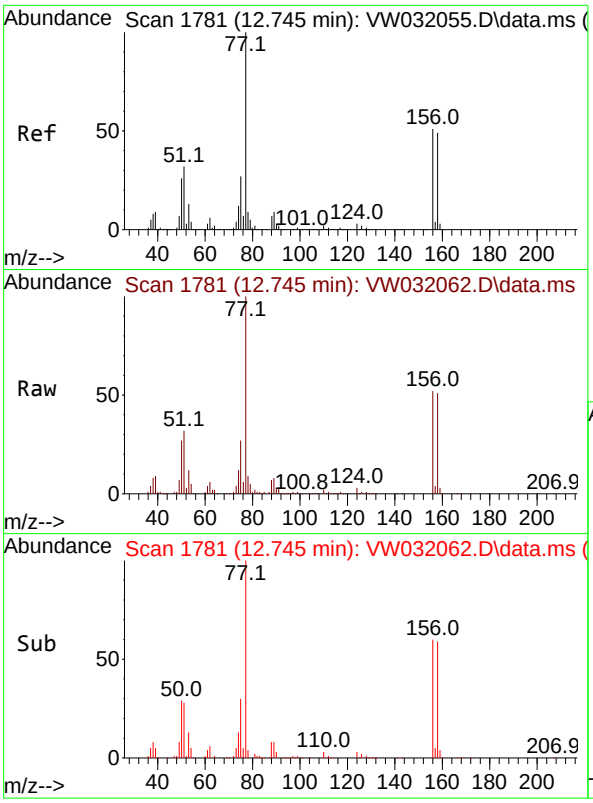




#76
1,2,3-Trichloropropane
Concen: 30.784 ug/l
RT: 12.763 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 75 Resp: 81702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 174.0 | 123.5 | 370.5 |



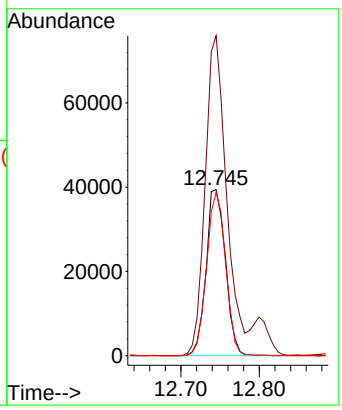


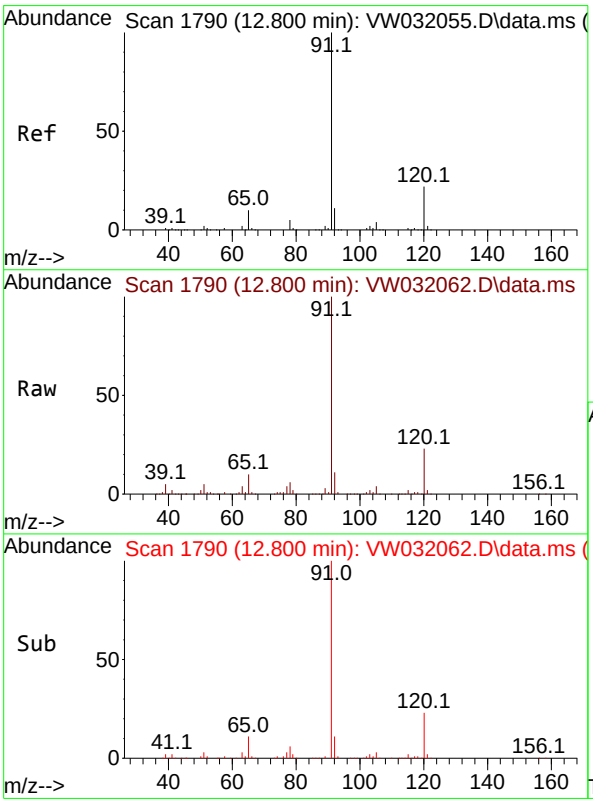

#77
Bromobenzene
Concen: 20.736 ug/l
RT: 12.745 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion:156 Resp: 67682

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 210.1 | 108.7 | 326.3 |
| 158 | 96.5 | 48.3 | 144.9 |

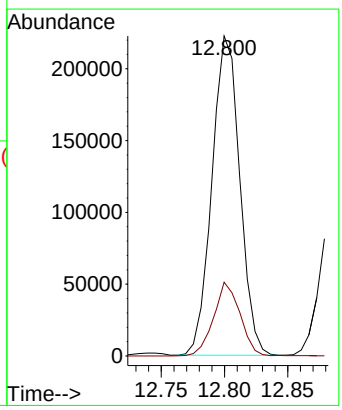


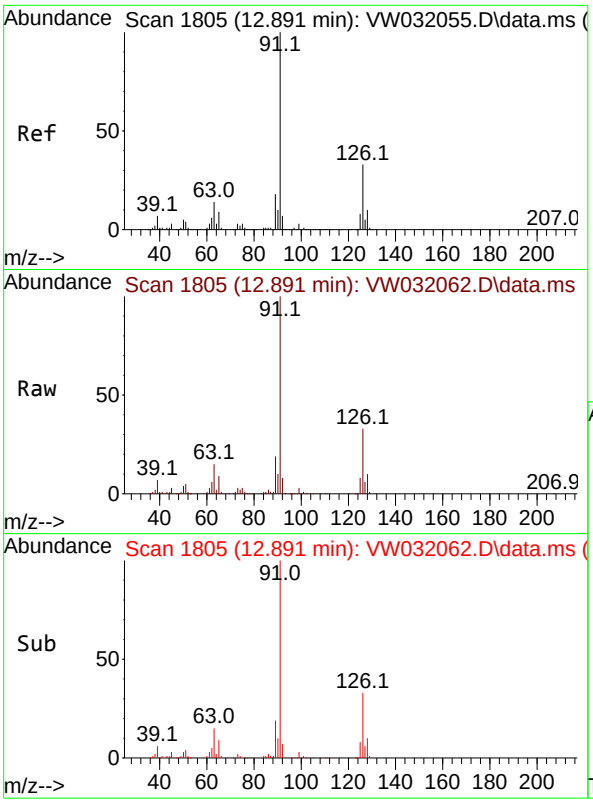




#78
n-propylbenzene
Concen: 20.228 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 91 Resp: 340328

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.0 | 11.1 | 33.3 |



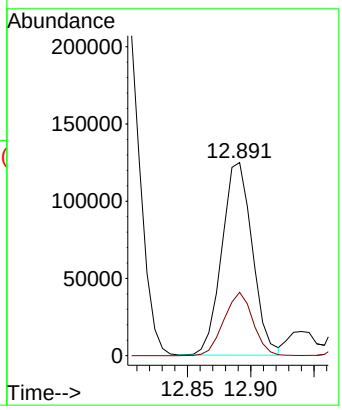


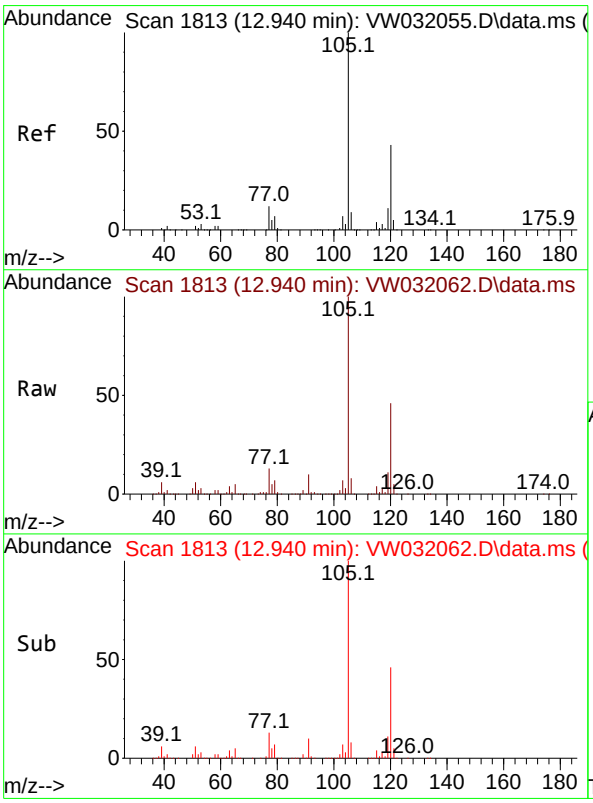

#79
2-Chlorotoluene
Concen: 20.142 ug/l
RT: 12.891 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion: 91 Resp: 209148

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.4 | 15.9 | 47.7 |

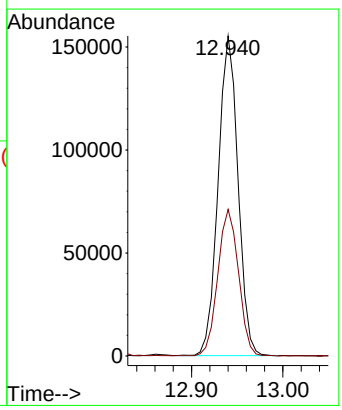


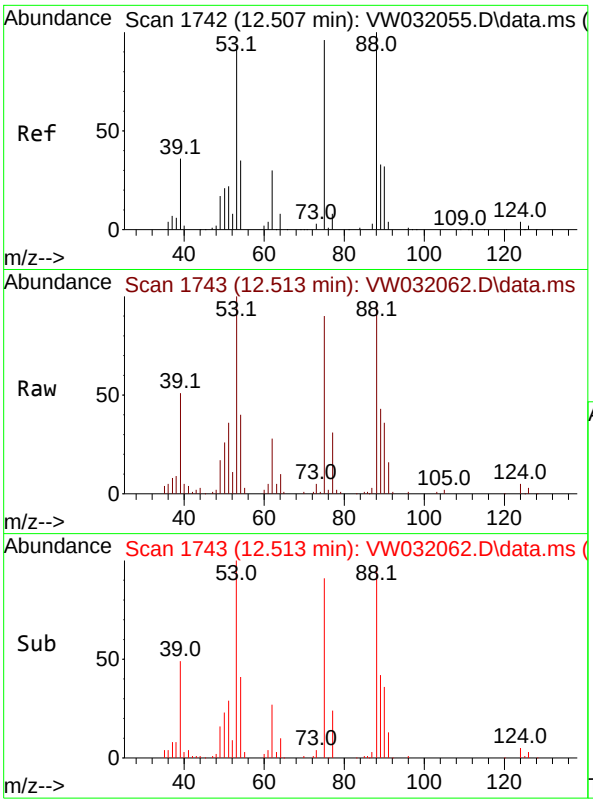




#80
1,3,5-Trimethylbenzene
Concen: 20.250 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:105 Resp: 234936

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.7 | 23.4 | 70.0 |



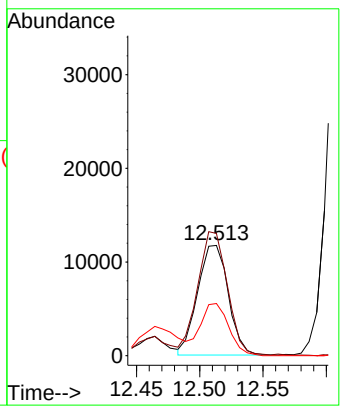


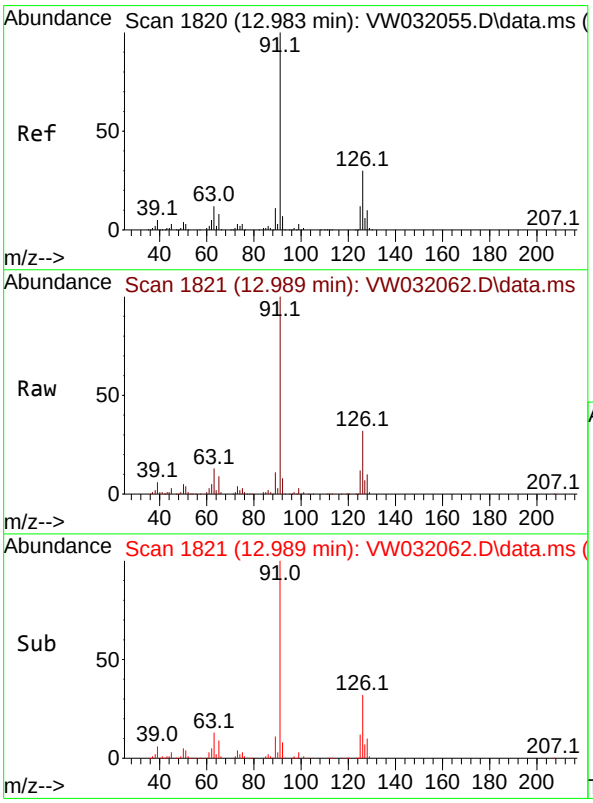

#81
trans-1,4-Dichloro-2-butene
Concen: 19.247 ug/l
RT: 12.513 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion: 75 Resp: 19731

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 111.2 | 81.0 | 121.6 |
| 89 | 44.6 | 37.3 | 55.9 |

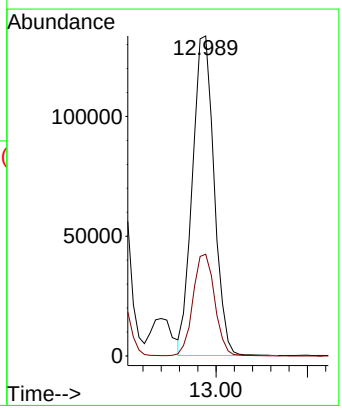


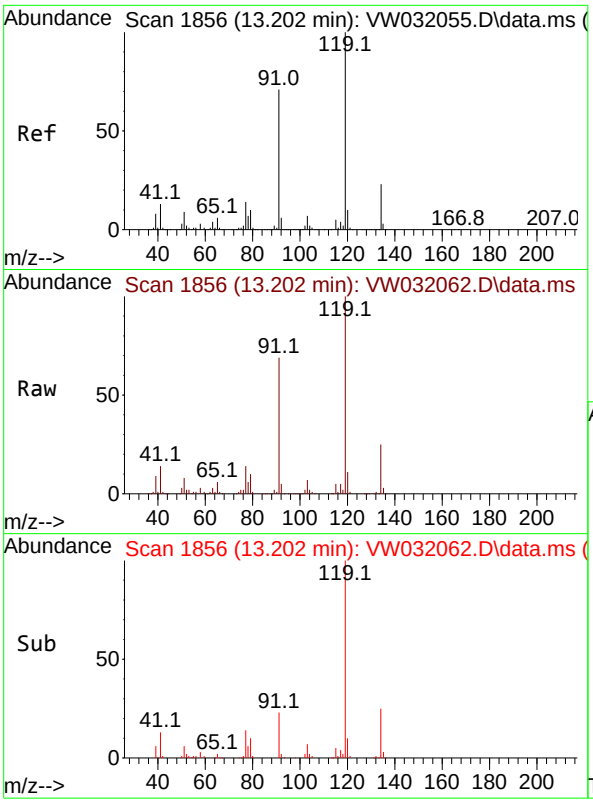




#82
4-Chlorotoluene
Concen: 19.946 ug/l
RT: 12.989 min Scan# 1821
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 91 Resp: 220054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.1 | 15.5 | 46.5 |



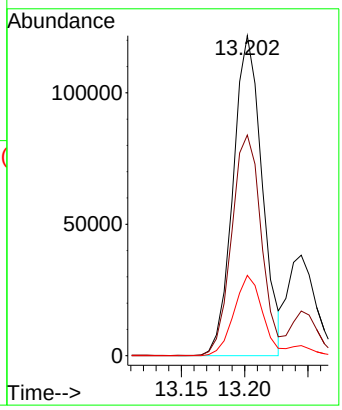


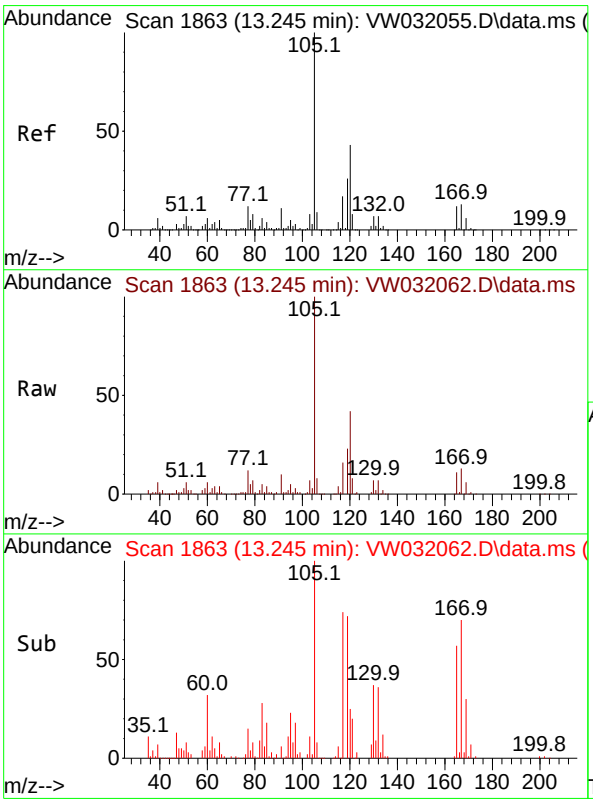

#83
tert-Butylbenzene
Concen: 20.213 ug/l
RT: 13.202 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion:119 Resp: 194628

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 70.1 | 35.3 | 105.9 |
| 134 | 24.9 | 12.1 | 36.3 |

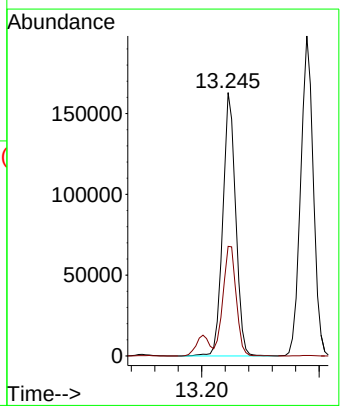


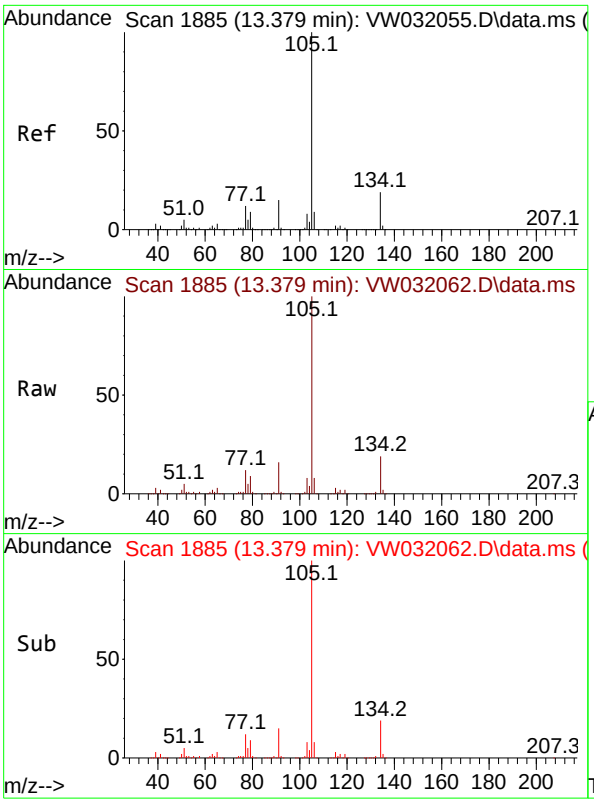




#84
1,2,4-Trimethylbenzene
Concen: 20.972 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:105 Resp: 247687

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 42.7 | 21.6 | 64.8 |



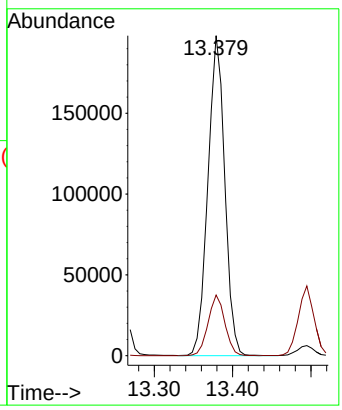


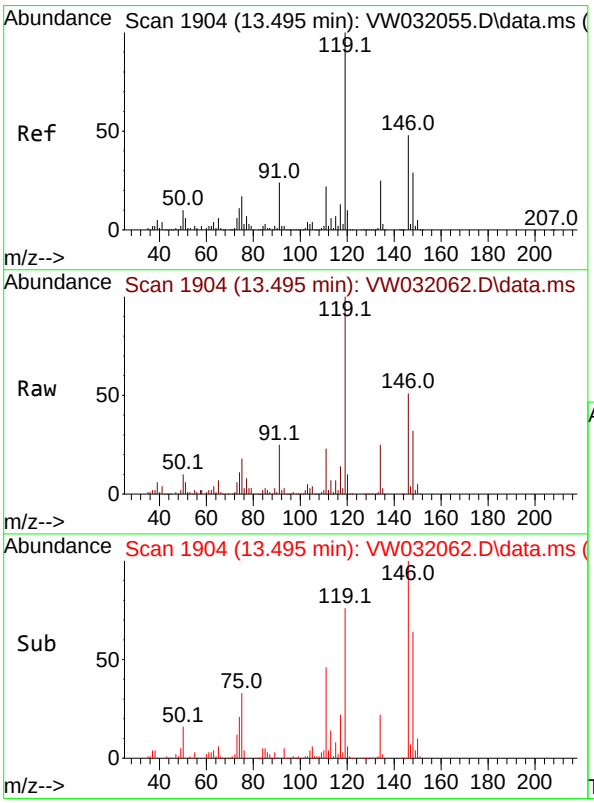

#85
sec-Butylbenzene
Concen: 20.297 ug/l
RT: 13.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion:105 Resp: 295479

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 18.9 | 9.9 | 29.7 |

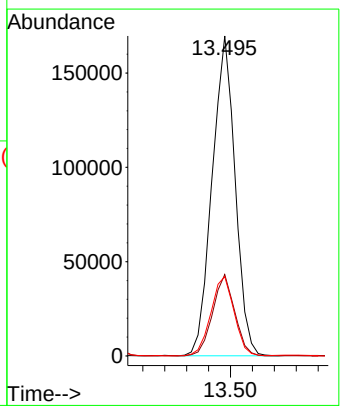


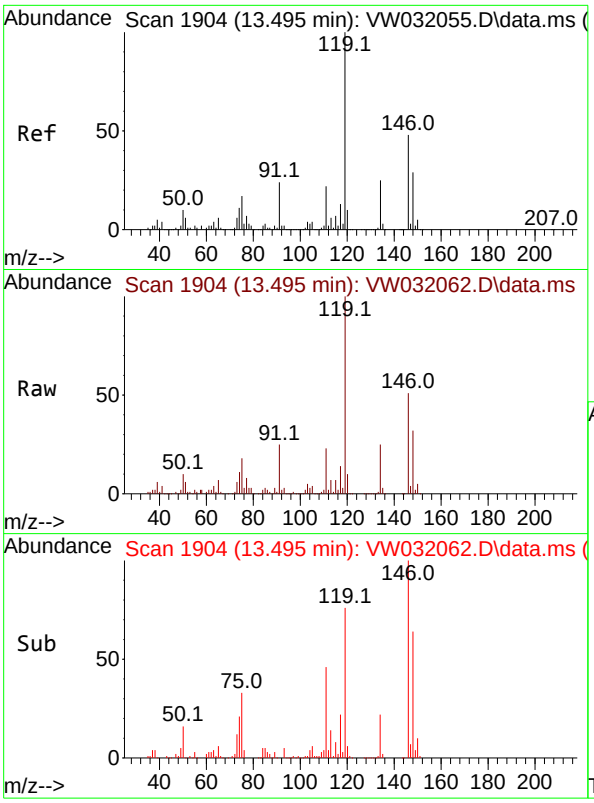




#86
p-Isopropyltoluene
Concen: 20.359 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:119 Resp: 247079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 24.4 | 12.4 | 37.0 |
| 91 | 25.0 | 12.1 | 36.3 |



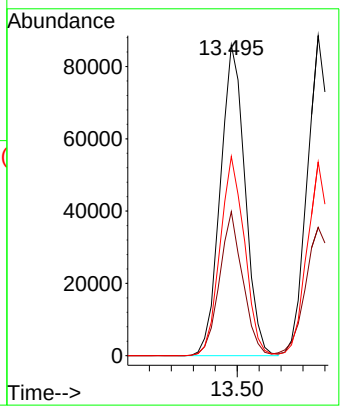


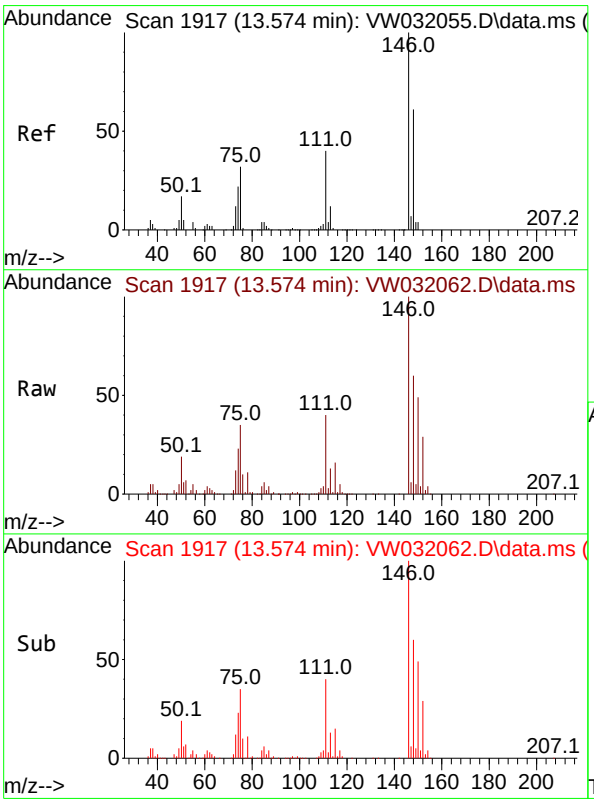

#87
1,3-Dichlorobenzene
Concen: 20.737 ug/l
RT: 13.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion:146 Resp: 134680

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.7 | 21.2 | 63.6 |
| 148 | 63.4 | 30.3 | 90.8 |

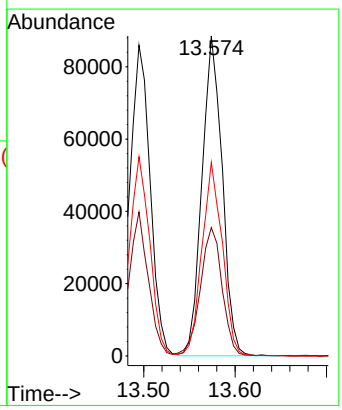


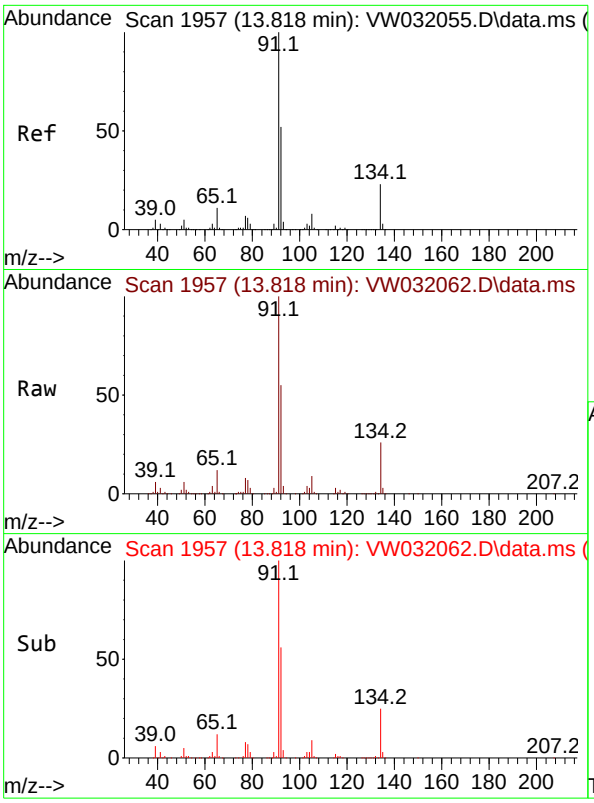




#88
1,4-Dichlorobenzene
Concen: 20.740 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:146 Resp: 136123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.3 | 21.6 | 64.6 |
| 148 | 61.0 | 32.0 | 96.2 |



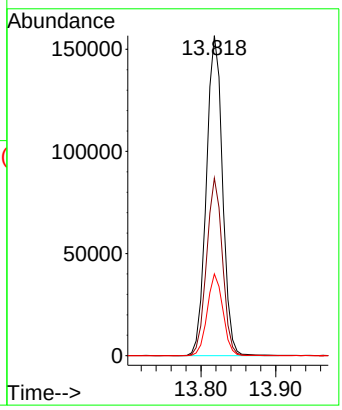


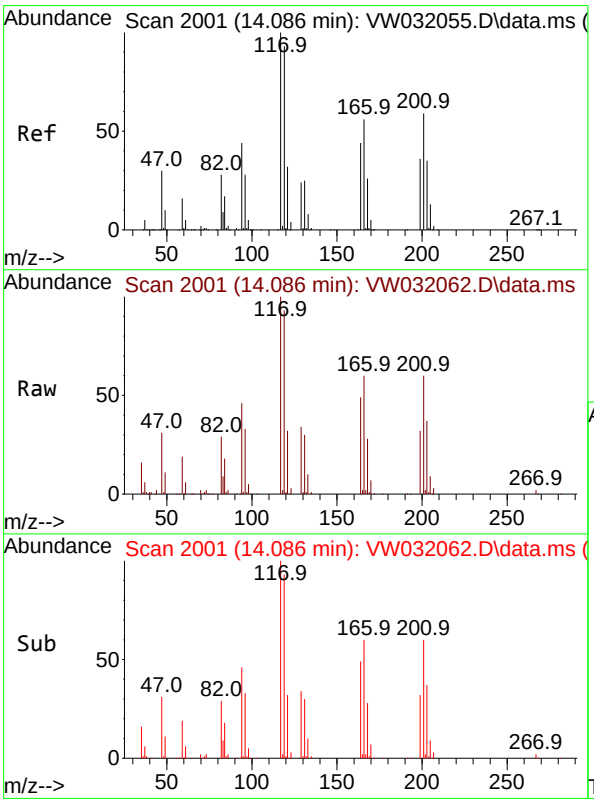

#89
n-Butylbenzene
Concen: 19.961 ug/l
RT: 13.818 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion: 91 Resp: 235344

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.5 | 26.7 | 80.1 |
| 134 | 24.8 | 12.0 | 36.1 |

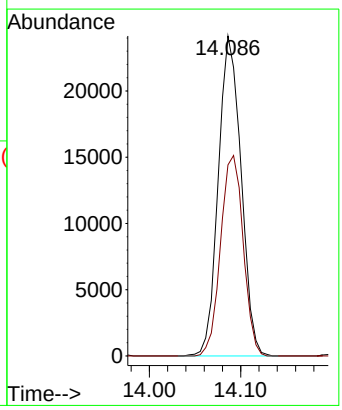


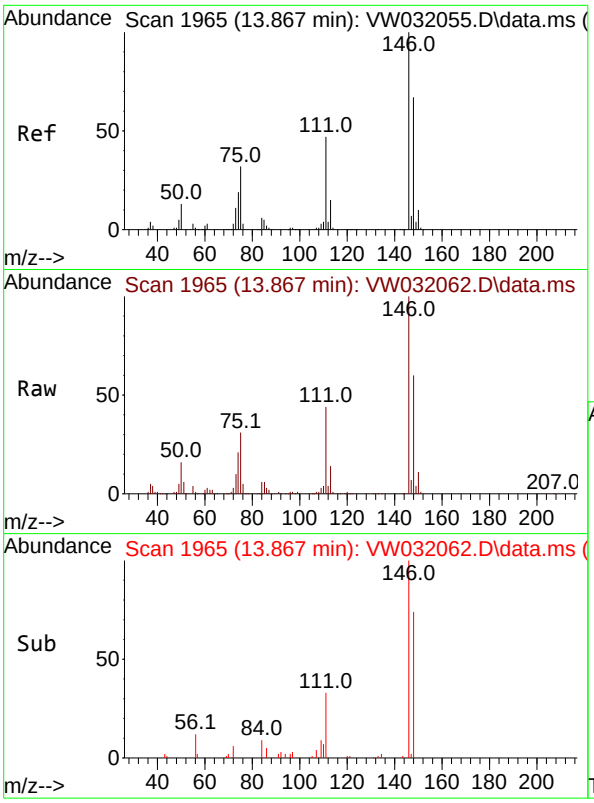




#90
Hexachloroethane
Concen: 18.827 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:117 Resp: 41787

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 62.2 | 30.9 | 92.5 |



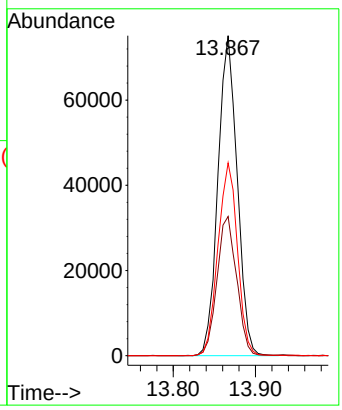


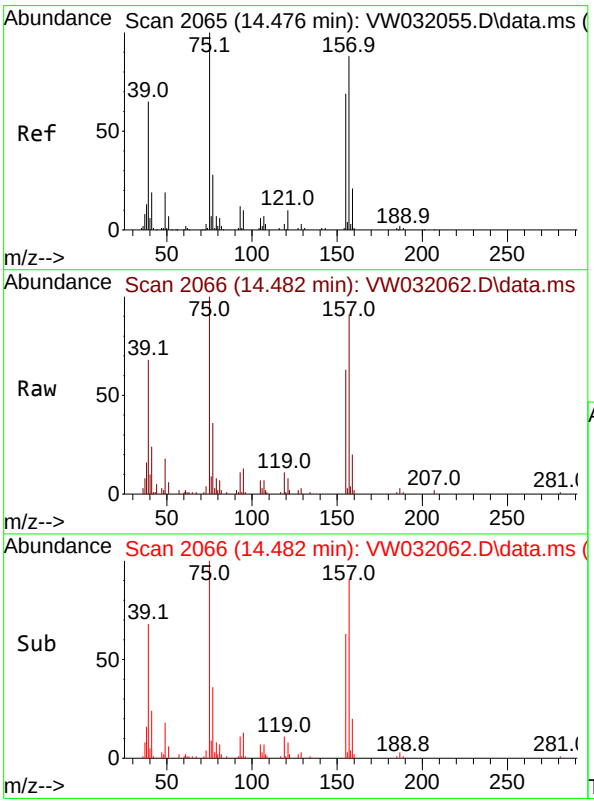

#91
1,2-Dichlorobenzene
Concen: 20.808 ug/l
RT: 13.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion:146 Resp: 122421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.5 | 23.1 | 69.3 |
| 148 | 61.0 | 32.9 | 98.6 |

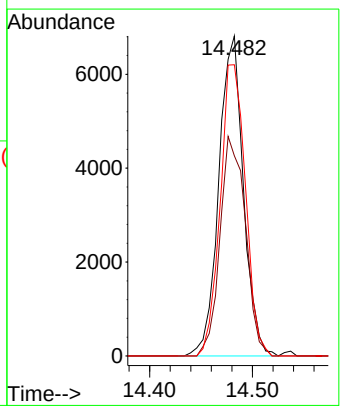


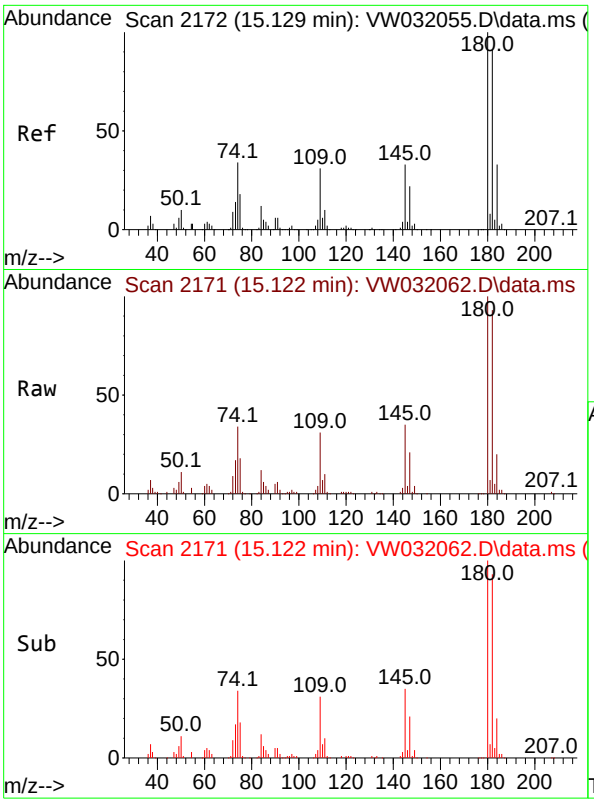




#92
1,2-Dibromo-3-Chloropropane
Concen: 19.597 ug/l
RT: 14.482 min Scan# 2066
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion: 75 Resp: 11304

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 70.9 | 35.2 | 105.6 |
| 157 | 93.4 | 47.5 | 142.6 |



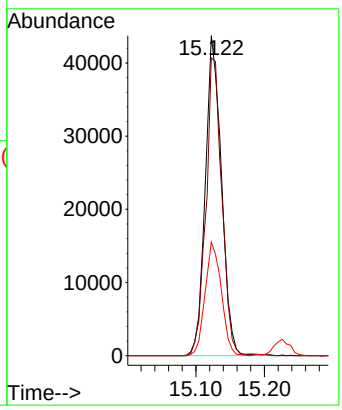


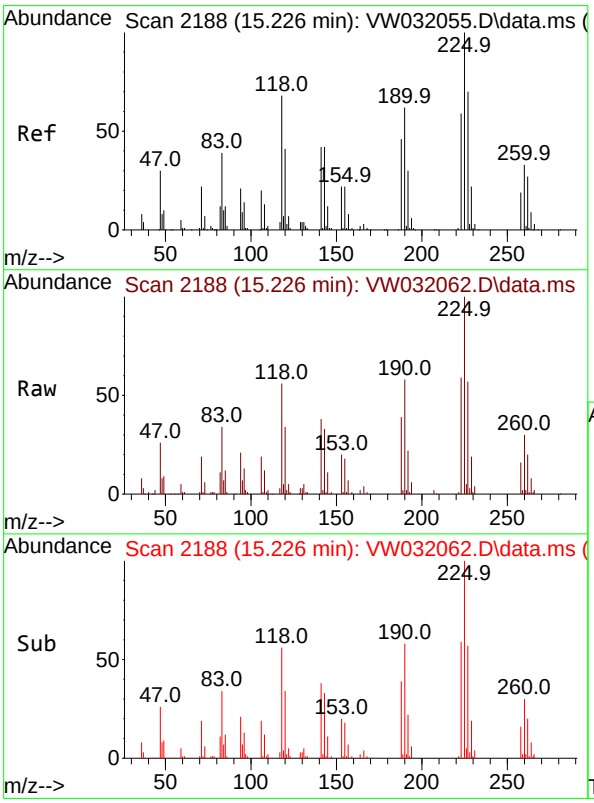

#93
1,2,4-Trichlorobenzene
Concen: 20.416 ug/l
RT: 15.122 min Scan# 21
Delta R.T. -0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion:180 Resp: 71854

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 92.0 | 49.0 | 147.0 |
| 145 | 35.7 | 17.3 | 51.9 |

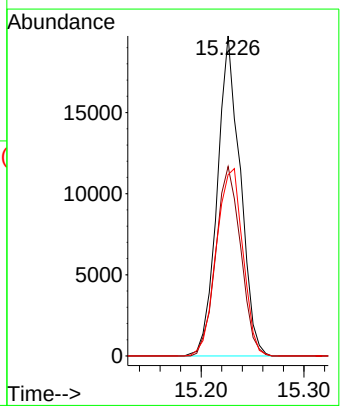


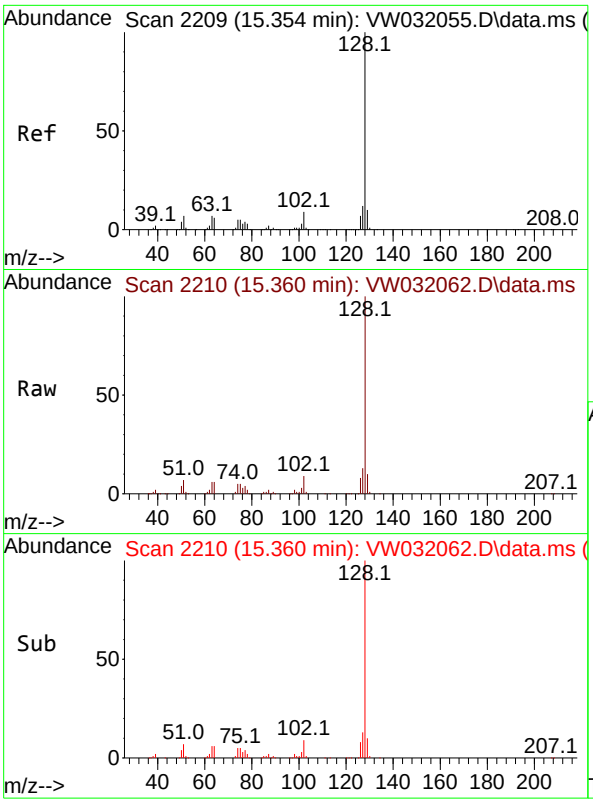




#94
Hexachlorobutadiene
Concen: 19.444 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:225 Resp: 30590

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.9 | 31.8 | 95.3 |
| 227 | 67.7 | 33.5 | 100.5 |



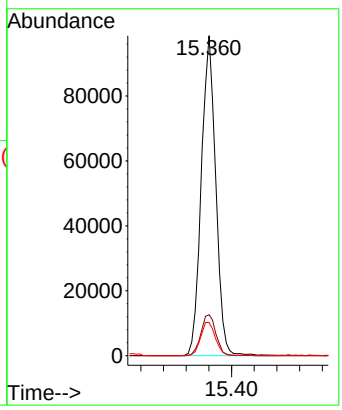


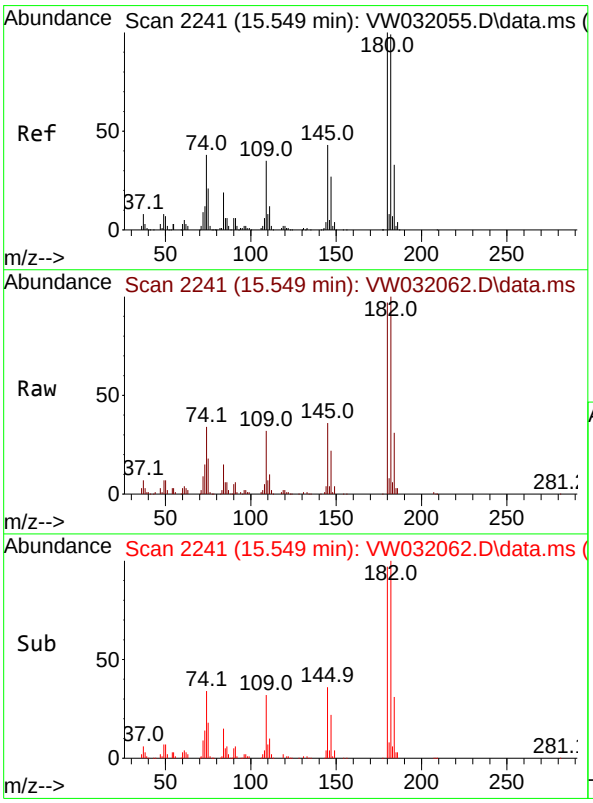

#95
Naphthalene
Concen: 20.223 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

**Instrument :**
MSVOA_W
**ClientSampleId :**
VW0811SBSD01

Tgt Ion:128 Resp: 174401

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.4 | 10.5 | 15.7 |
| 129 | 10.7 | 8.2 | 12.4 |

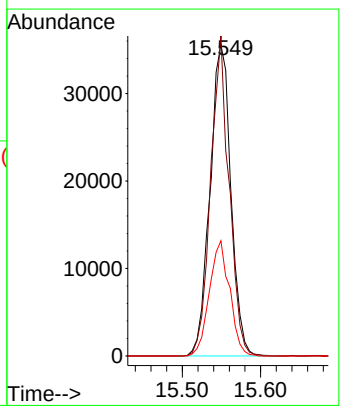



#96
1,2,3-Trichlorobenzene
Concen: 20.606 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. -0.000 min
Lab File: VW032062.D
Acq: 11 Aug 2025 13:10

Tgt Ion:180 Resp: 65985

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 90.5 | 46.0 | 138.0 |
| 145 | 36.0 | 19.2 | 57.6 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032078.D
Acq On : 11 Aug 2025 19:31
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 29 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Quant Time: Aug 12 04:30:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.959 | 168 | 224871 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.849 | 114 | 413610 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.629 | 117 | 399228 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.556 | 152 | 181926 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.319 | 65 | 160017 | 49.202 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 63 - 155 | | Recovery = 98.400% | | | |
| 35) Dibromofluoromethane | 7.898 | 113 | 132442 | 49.565 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 70 - 134 | | Recovery = 99.140% | | | |
| 50) Toluene-d8 | 10.325 | 98 | 496013 | 50.187 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 123 | | Recovery = 100.380% | | | |
| 62) 4-Bromofluorobenzene | 12.617 | 95 | 180889 | 49.666 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 17 - 146 | | Recovery = 99.340% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 2.040 | 85 | 66817 | 41.544 | ug/l | 100 |
| 3) Chloromethane | 2.253 | 50 | 91640 | 42.300 | ug/l | 95 |
| 4) Vinyl Chloride | 2.405 | 62 | 112251 | 42.835 | ug/l | 94 |
| 5) Bromomethane | 2.826 | 94 | 84610 | 43.036 | ug/l | 99 |
| 6) Chloroethane | 2.972 | 64 | 76486 | 44.108 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.308 | 101 | 91694 | 43.678 | ug/l | 95 |
| 8) Diethyl Ether | 3.722 | 74 | 78203 | 45.468 | ug/l | 97 |
| 9) 1,1,2-Trichlorotrifluo... | 4.100 | 101 | 107518 | 43.412 | ug/l | 99 |
| 10) Methyl Iodide | 4.308 | 142 | 157749 | 44.922 | ug/l | 98 |
| 11) Tert butyl alcohol | 5.216 | 59 | 48254 | 229.131 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 4.082 | 96 | 120156 | 44.059 | ug/l | 95 |
| 13) Acrolein | 3.930 | 56 | 65364 | 194.795 | ug/l | 95 |
| 14) Allyl chloride | 4.704 | 41 | 176474 | 44.462 | ug/l | 99 |
| 15) Acrylonitrile | 5.405 | 53 | 195391 | 238.510 | ug/l | 99 |
| 16) Acetone | 4.161 | 43 | 152843 | 202.983 | ug/l | 99 |
| 17) Carbon Disulfide | 4.423 | 76 | 316067 | 43.178 | ug/l # | 94 |
| 18) Methyl Acetate | 4.710 | 43 | 131388 | 55.142 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.466 | 73 | 231312 | 48.139 | ug/l | 99 |
| 20) Methylene Chloride | 4.960 | 84 | 143735 | 41.285 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 5.460 | 96 | 133902 | 46.267 | ug/l | 95 |
| 22) Diisopropyl ether | 6.344 | 45 | 401086 | 47.935 | ug/l | 100 |
| 23) Vinyl Acetate | 6.283 | 43 | 1283164 | 233.574 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 6.246 | 63 | 242514 | 45.363 | ug/l | 99 |
| 25) 2-Butanone | 7.197 | 43 | 255523 | 238.766 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 7.191 | 77 | 113466 | 42.306 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 7.191 | 96 | 162586 | 48.061 | ug/l | 98 |
| 28) Bromochloromethane | 7.533 | 49 | 119080 | 48.947 | ug/l | 100 |
| 29) Tetrahydrofuran | 7.551 | 42 | 173149 | 245.333 | ug/l | 99 |
| 30) Chloroform | 7.691 | 83 | 267886 | 47.266 | ug/l | 100 |
| 31) Cyclohexane | 7.971 | 56 | 200498 | 43.259 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 7.886 | 97 | 185041 | 44.949 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 8.093 | 75 | 180151 | 47.825 | ug/l | 99 |
| 37) Ethyl Acetate | 7.277 | 43 | 110057 | 49.608 | ug/l | 99 |
| 38) Carbon Tetrachloride | 8.087 | 117 | 167458 | 46.065 | ug/l | 94 |
| 39) Methylcyclohexane | 9.343 | 83 | 221584 | 48.261 | ug/l | 98 |
| 40) Benzene | 8.337 | 78 | 560623 | 47.879 | ug/l | 96 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032078.D
Acq On : 11 Aug 2025 19:31
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 29 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Quant Time: Aug 12 04:30:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.502 | 41 | 62009 | 49.286 | ug/l | | 94 |
| 42) 1,2-Dichloroethane | 8.410 | 62 | 180455 | 48.163 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.435 | 43 | 200606 | 49.147 | ug/l | | 99 |
| 44) Trichloroethene | 9.099 | 130 | 129965 | 46.608 | ug/l | | 98 |
| 45) 1,2-Dichloropropane | 9.380 | 63 | 138731 | 49.043 | ug/l | | 99 |
| 46) Dibromomethane | 9.465 | 93 | 89360 | 48.945 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.654 | 83 | 205517 | 48.852 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.441 | 41 | 101426 | 51.471 | ug/l | | 98 |
| 49) 1,4-Dioxane | 9.459 | 88 | 23641 | 1001.497 | ug/l | | 99 |
| 51) 4-Methyl-2-Pentanone | 10.215 | 43 | 581370 | 252.344 | ug/l | | 100 |
| 52) Toluene | 10.392 | 92 | 363384 | 49.271 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.611 | 75 | 188585 | 47.848 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 10.075 | 75 | 216528 | 48.425 | ug/l | | 97 |
| 55) 1,1,2-Trichloroethane | 10.788 | 97 | 118978 | 49.042 | ug/l | | 98 |
| 56) Ethyl methacrylate | 10.648 | 69 | 166567 | 51.306 | ug/l | | 100 |
| 57) 1,3-Dichloropropane | 10.934 | 76 | 204220 | 48.292 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.928 | 63 | 476248 | 265.209 | ug/l | | 99 |
| 59) 2-Hexanone | 10.971 | 43 | 404553 | 253.545 | ug/l | | 100 |
| 60) Dibromochloromethane | 11.129 | 129 | 134574 | 48.560 | ug/l | | 97 |
| 61) 1,2-Dibromoethane | 11.239 | 107 | 115961 | 49.186 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.861 | 164 | 103230 | 44.767 | ug/l | | 92 |
| 65) Chlorobenzene | 11.660 | 112 | 390137 | 44.896 | ug/l | | 95 |
| 66) 1,1,1,2-Tetrachloroethane | 11.727 | 131 | 125374 | 46.243 | ug/l | | 98 |
| 67) Ethyl Benzene | 11.733 | 91 | 674717 | 45.839 | ug/l | | 97 |
| 68) m/p-Xylenes | 11.837 | 106 | 509322 | 89.674 | ug/l | | 96 |
| 69) o-Xylene | 12.166 | 106 | 249805 | 47.586 | ug/l | | 99 |
| 70) Styrene | 12.178 | 104 | 444091 | 47.626 | ug/l | | 99 |
| 71) Bromoform | 12.349 | 173 | 74729 | 48.185 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.465 | 105 | 615630 | 48.421 | ug/l | | 100 |
| 74) N-amyl acetate | 12.270 | 43 | 174844 | 47.933 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.715 | 83 | 143342 | 47.484 | ug/l | | 98 |
| 76) 1,2,3-Trichloropropane | 12.763 | 75 | 184957 | 74.907 | ug/l | | 58 |
| 77) Bromobenzene | 12.745 | 156 | 145348 | 47.865 | ug/l | | 97 |
| 78) n-propylbenzene | 12.806 | 91 | 756214 | 48.311 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.891 | 91 | 469293 | 48.578 | ug/l | | 98 |
| 80) 1,3,5-Trimethylbenzene | 12.940 | 105 | 534122 | 49.484 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.513 | 75 | 43908 | 46.037 | ug/l | | 97 |
| 82) 4-Chlorotoluene | 12.989 | 91 | 487171 | 47.464 | ug/l | | 98 |
| 83) tert-Butylbenzene | 13.202 | 119 | 433786 | 48.424 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.245 | 105 | 543640 | 49.477 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.379 | 105 | 643083 | 47.482 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.495 | 119 | 549955 | 48.708 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.495 | 146 | 278295 | 46.057 | ug/l | | 93 |
| 88) 1,4-Dichlorobenzene | 13.574 | 146 | 277410 | 45.431 | ug/l | | 98 |
| 89) n-Butylbenzene | 13.818 | 91 | 531065 | 48.414 | ug/l | | 100 |
| 90) Hexachloroethane | 14.086 | 117 | 94529 | 45.779 | ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 13.867 | 146 | 269607 | 49.256 | ug/l | | 96 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.476 | 75 | 25079 | 46.732 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 15.129 | 180 | 155733 | 47.562 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.226 | 225 | 65688 | 44.879 | ug/l | | 96 |
| 95) Naphthalene | 15.360 | 128 | 397425 | 49.535 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.549 | 180 | 152914 | 51.327 | ug/l | | 95 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032078.D
Acq On : 11 Aug 2025 19:31
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 29 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Quant Time: Aug 12 04:30:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

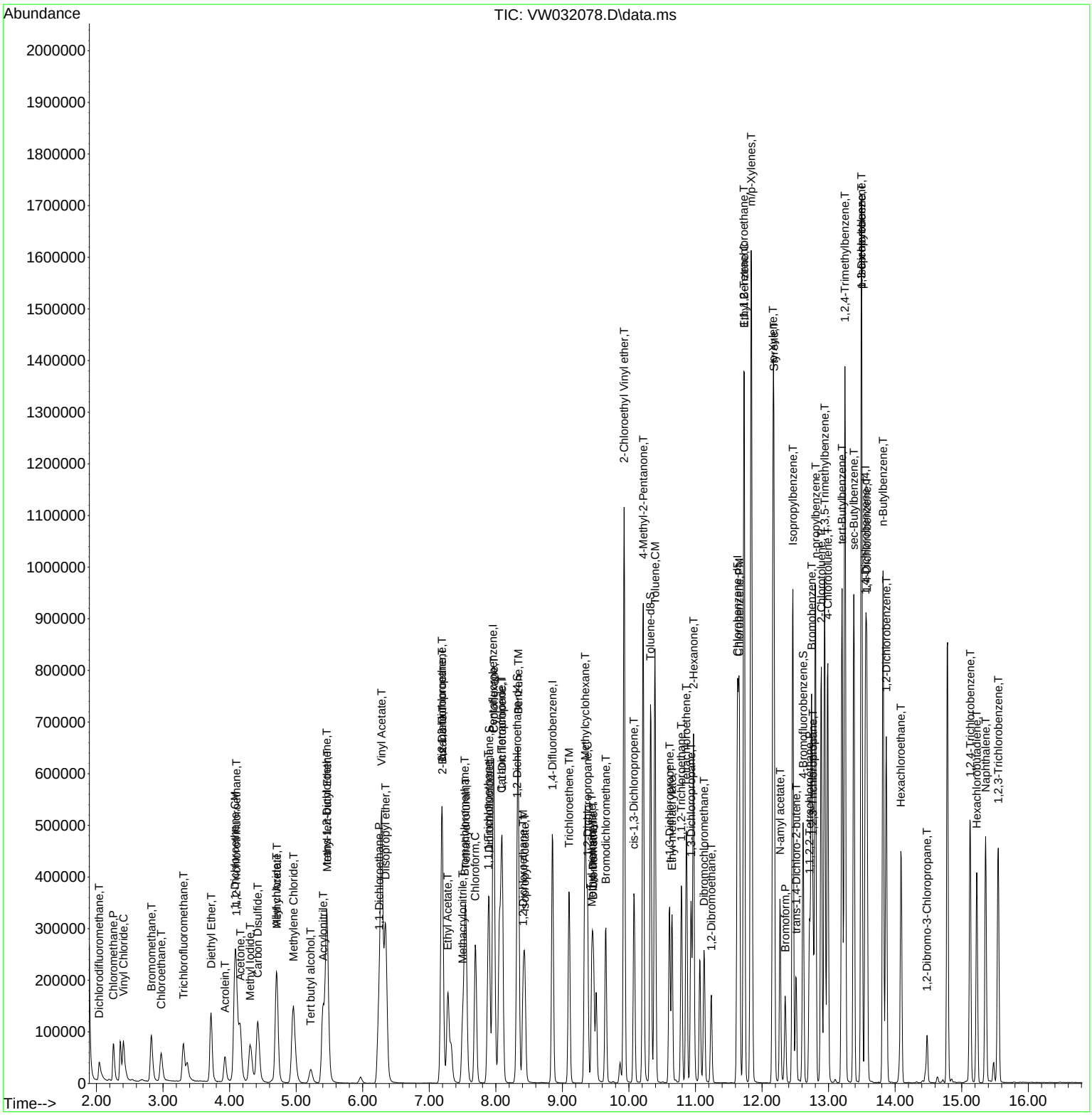
(#) = qualifier out of range (m) = manual integration (+) = signals summed

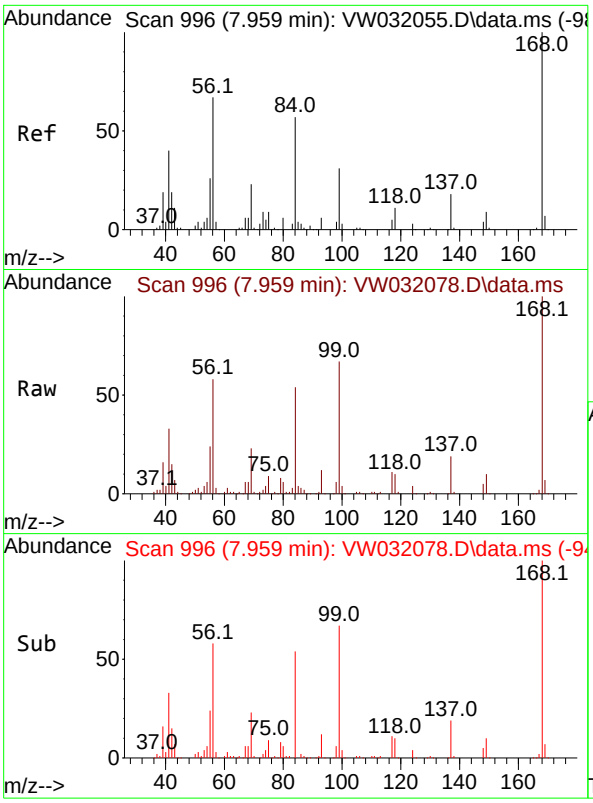
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW081125\
Data File : VW032078.D
Acq On : 11 Aug 2025 19:31
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 5.00g/5mL/MSVOA_W/SOIL
ALS Vial : 29 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Quant Time: Aug 12 04:30:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W081125S.M
Quant Title : SW846 8260
QLast Update : Tue Aug 12 04:04:48 2025
Response via : Initial Calibration



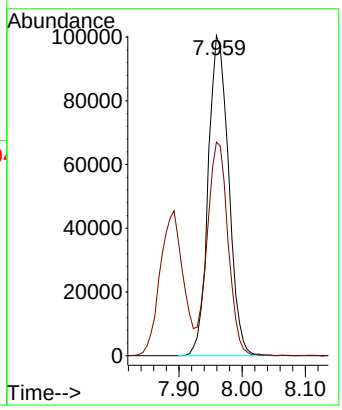


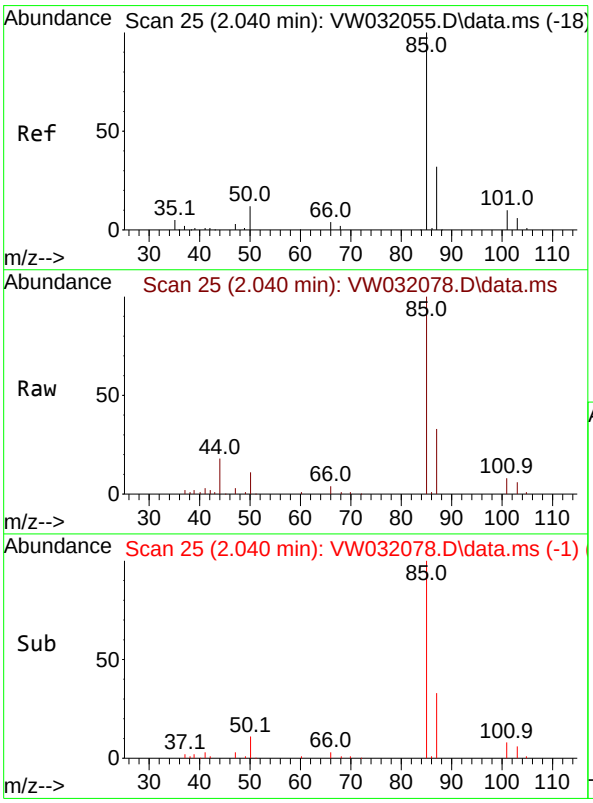

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:168 Resp: 224871

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 66.7 | 56.0 | 84.0 |

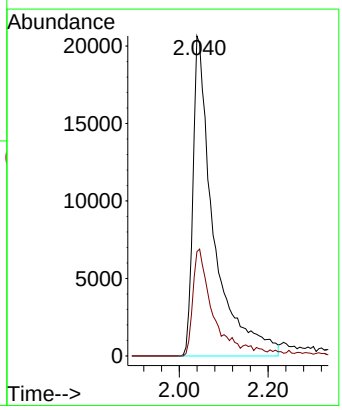


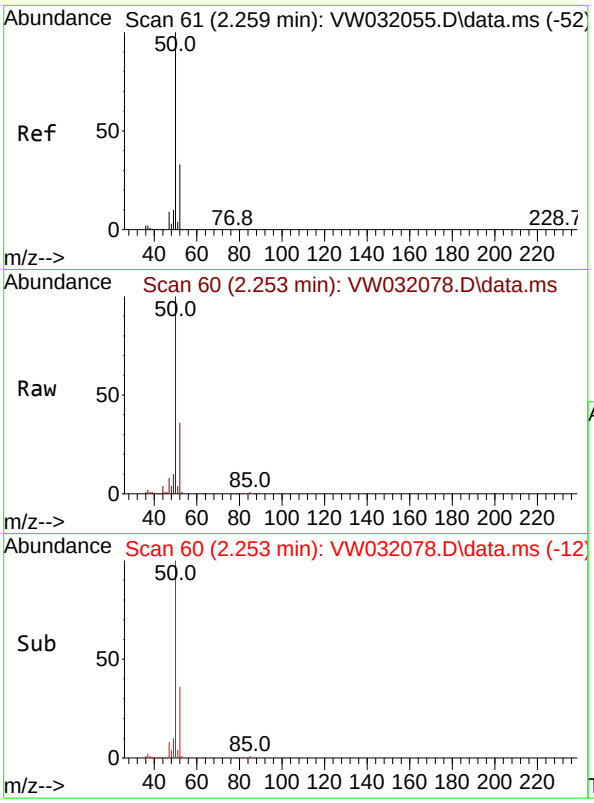




#2
Dichlorodifluoromethane
Concen: 41.544 ug/l
RT: 2.040 min Scan# 25
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 85 Resp: 66817

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.6 | 16.2 | 48.6 |



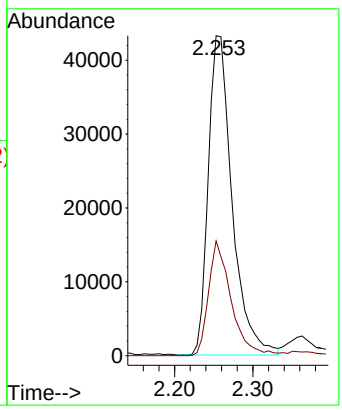


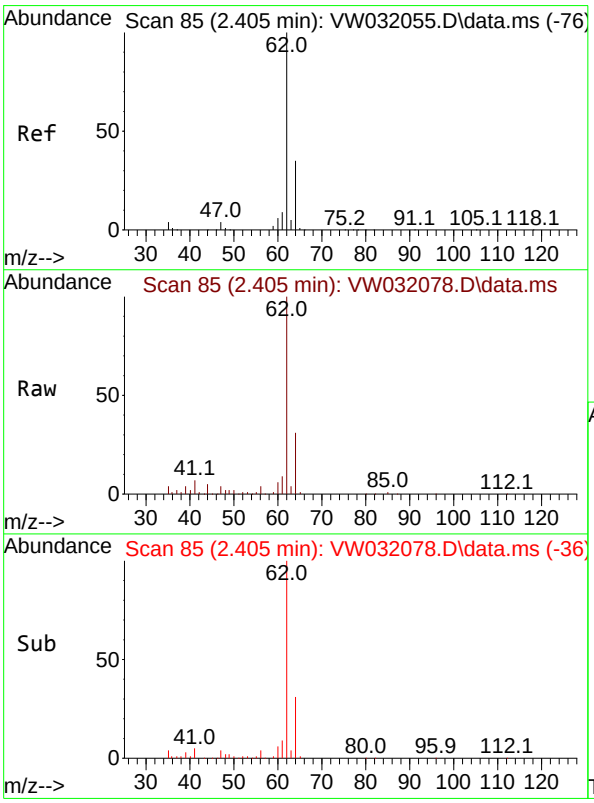

#3
Chloromethane
Concen: 42.300 ug/l
RT: 2.253 min Scan# 6
Delta R.T. -0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 50 Resp: 91640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 35.9 | 26.6 | 39.8 |

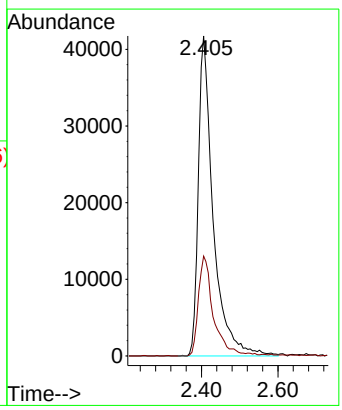


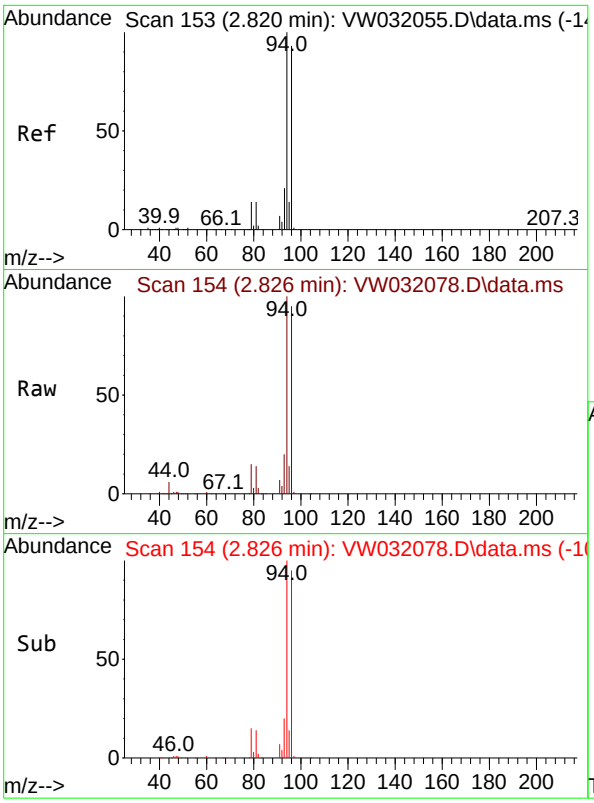




#4
Vinyl Chloride
Concen: 42.835 ug/l
RT: 2.405 min Scan# 85
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 62 Resp: 112251

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.2 | 27.8 | 41.6 |



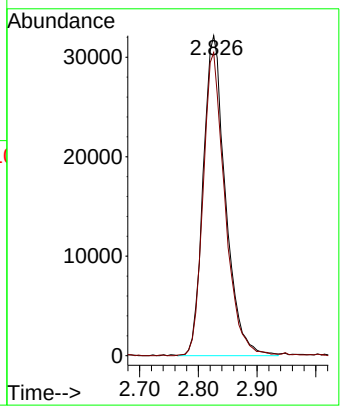


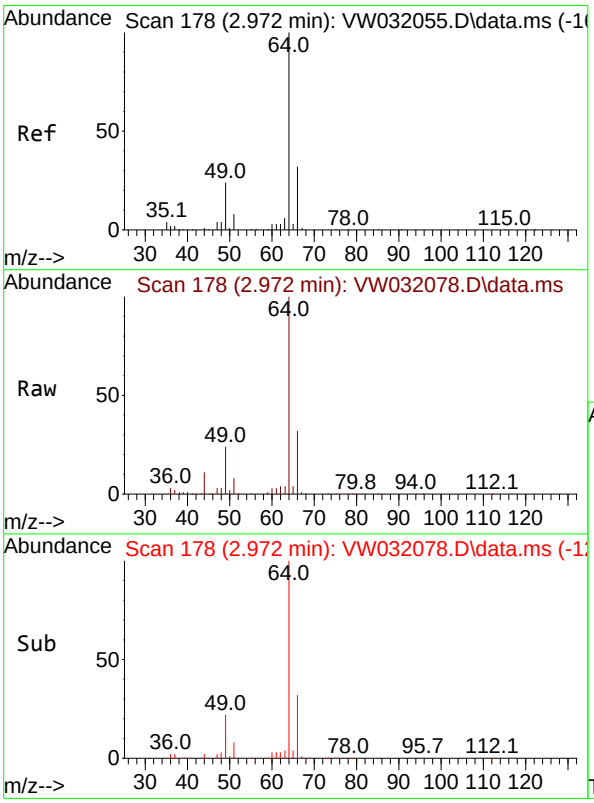

#5
Bromomethane
Concen: 43.036 ug/l
RT: 2.826 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 94 Resp: 84610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 94.5 | 74.7 | 112.1 |

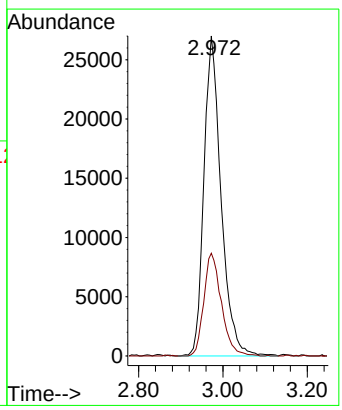


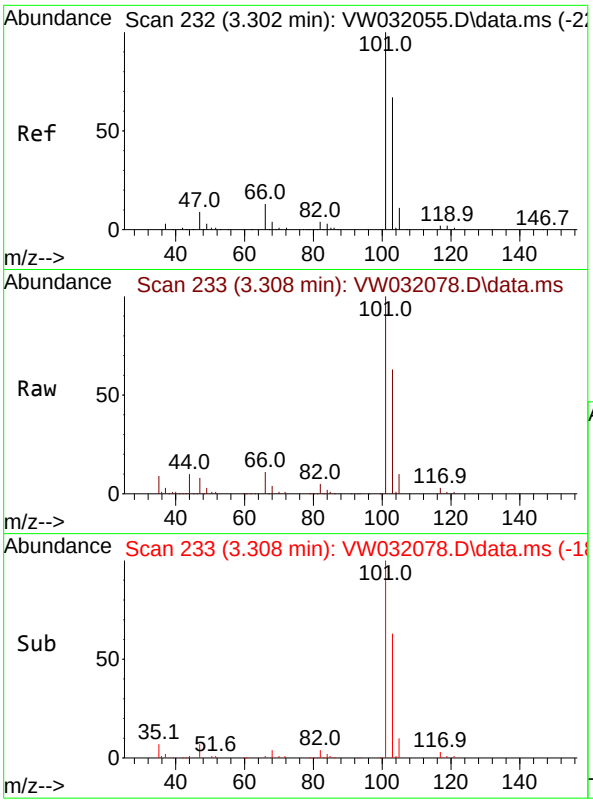




#6
Chloroethane
Concen: 44.108 ug/l
RT: 2.972 min Scan# 178
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 64 Resp: 76486

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.1 | 26.0 | 39.0 |



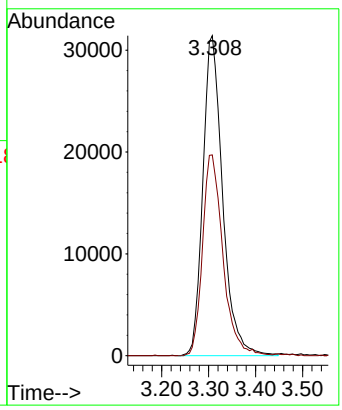


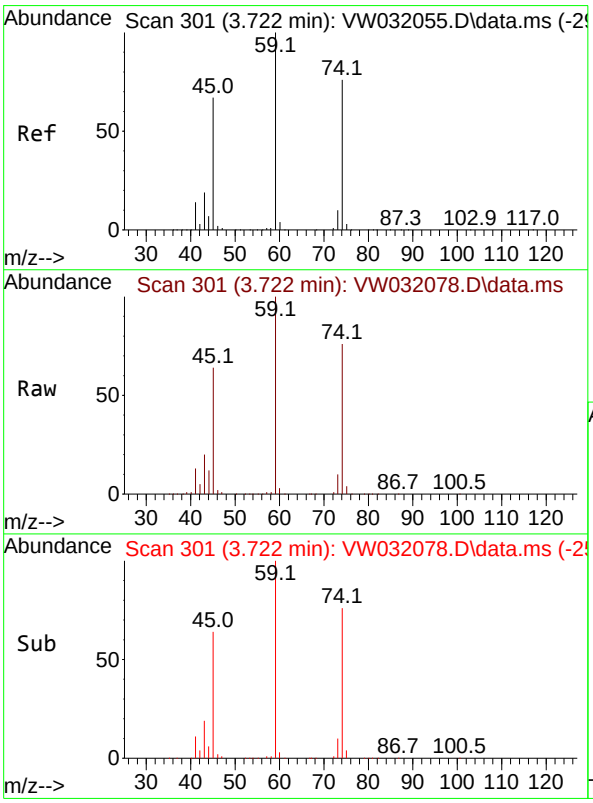

#7
Trichlorofluoromethane
Concen: 43.678 ug/l
RT: 3.308 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:101 Resp: 91694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 62.8 | 53.4 | 80.0 |

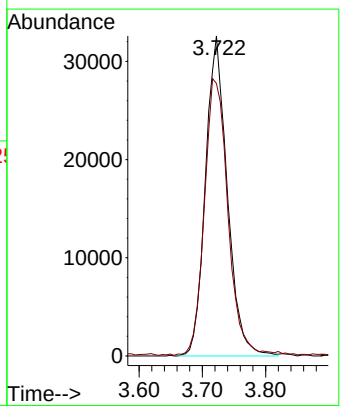


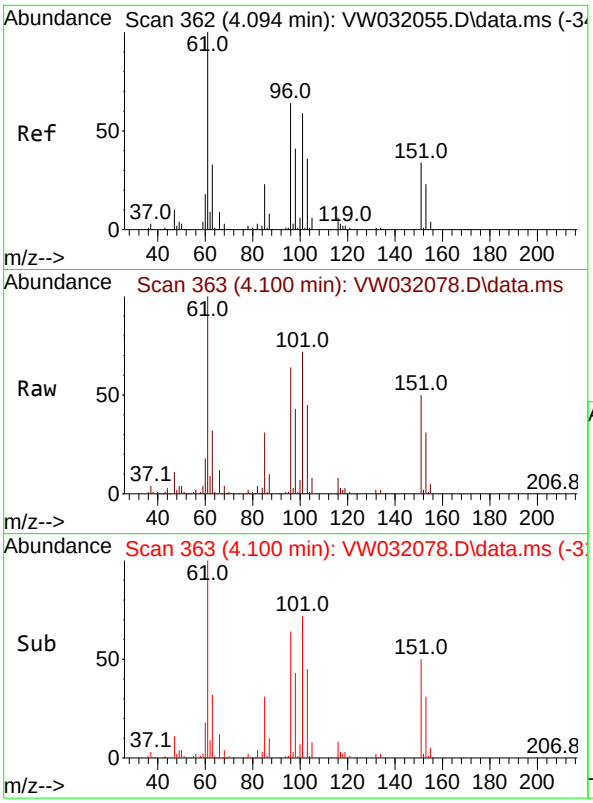




#8
Diethyl Ether
Concen: 45.468 ug/l
RT: 3.722 min Scan# 301
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 74 Resp: 78203

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 93.6 | 45.4 | 136.2 |



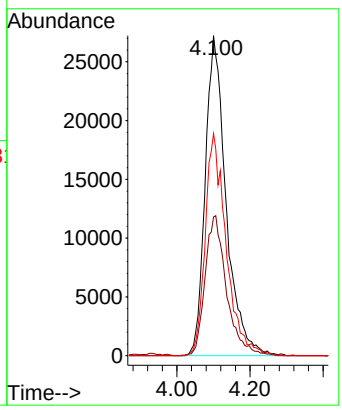


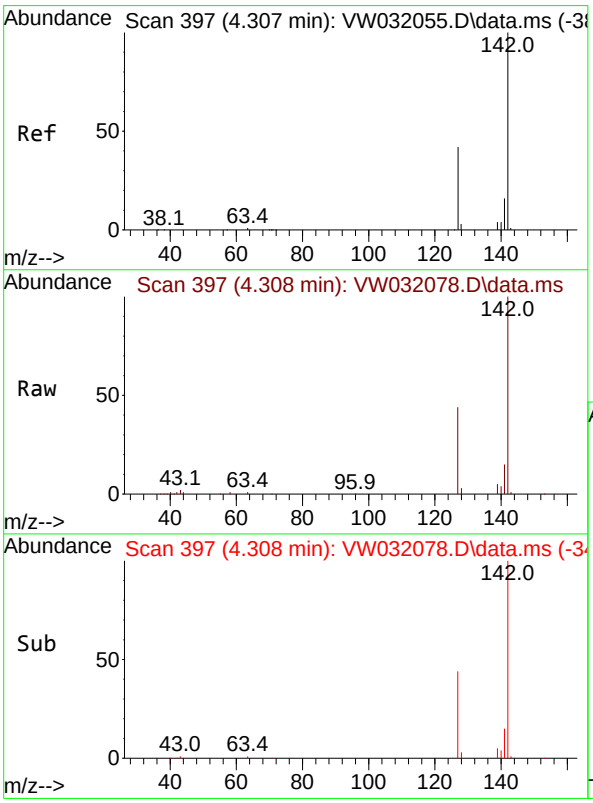

#9
1,1,2-Trichlorotrifluoroethane
Concen: 43.412 ug/l
RT: 4.100 min Scan# 3
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:101 Resp: 107518

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 45.0 | 34.9 | 52.3 |
| 151 | 69.8 | 56.2 | 84.4 |

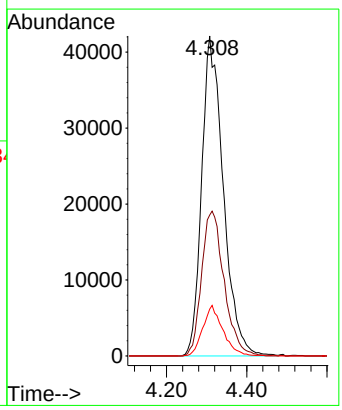


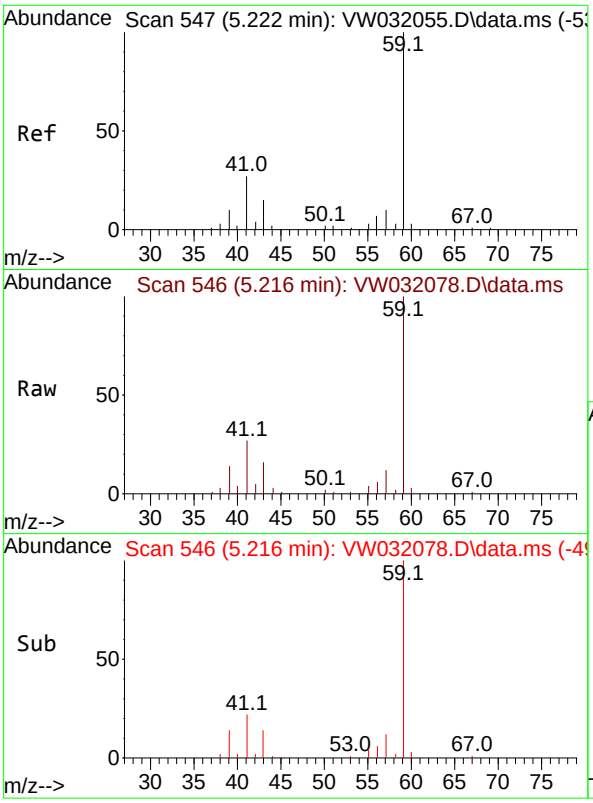




#10
Methyl Iodide
Concen: 44.922 ug/l
RT: 4.308 min Scan# 397
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:142 Resp: 157749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 47.1 | 36.6 | 55.0 |
| 141 | 14.7 | 12.1 | 18.1 |



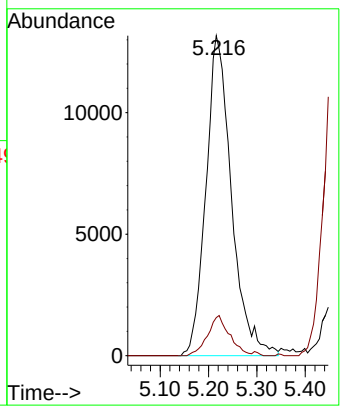


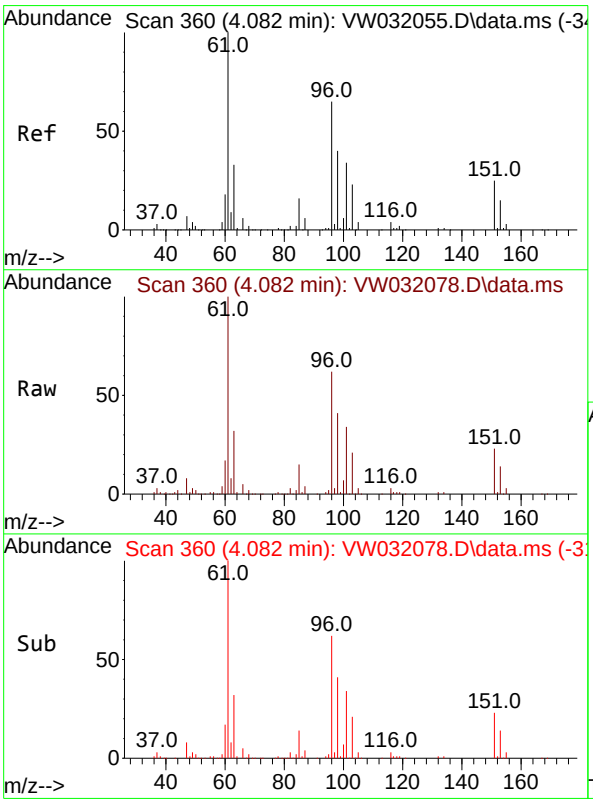

#11
Tert butyl alcohol
Concen: 229.131 ug/l
RT: 5.216 min Scan# 5
Delta R.T. -0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 59 Resp: 48254

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.8 | 8.7 | 13.1 |

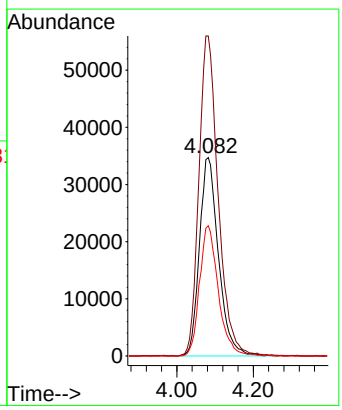


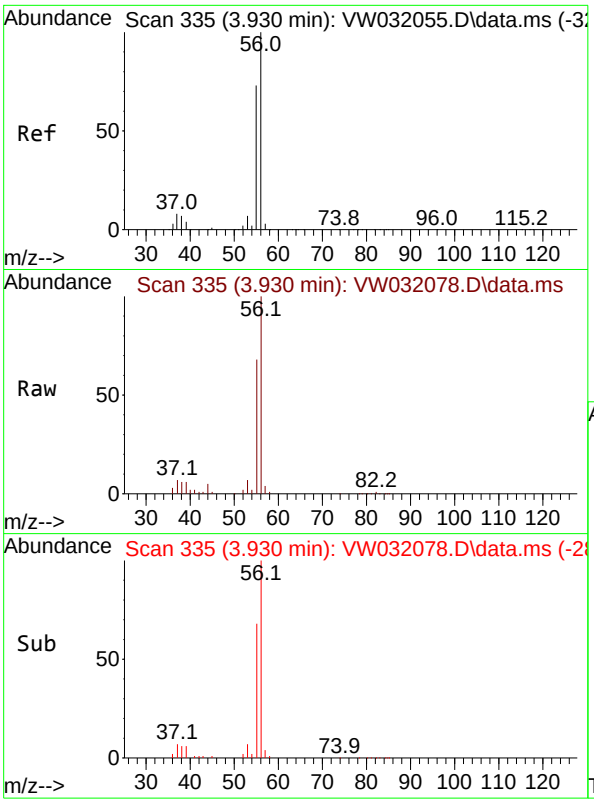




#12
1,1-Dichloroethene
Concen: 44.059 ug/l
RT: 4.082 min Scan# 360
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 96 Resp: 120156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 161.3 | 123.4 | 185.2 |
| 98 | 65.6 | 49.5 | 74.3 |



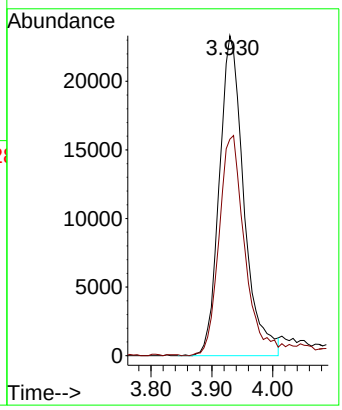


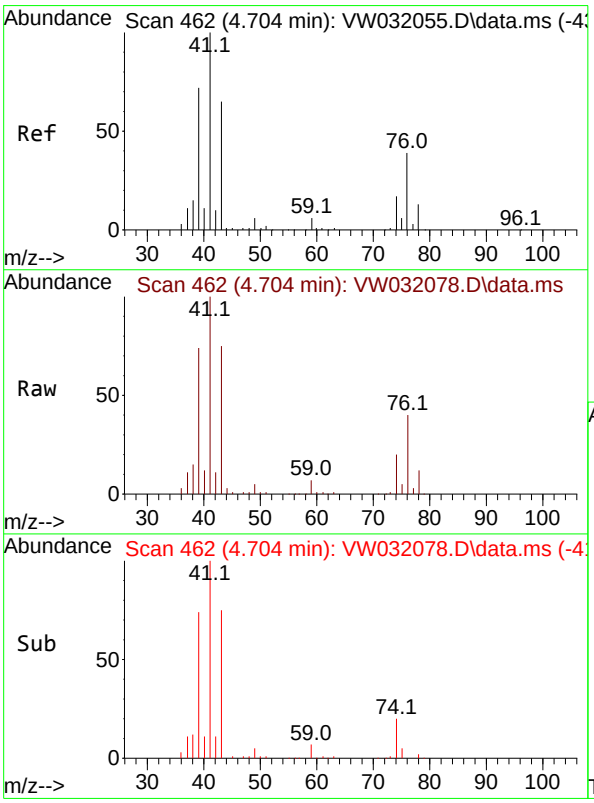

#13
Acrolein
Concen: 194.795 ug/l
RT: 3.930 min Scan# 3
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 56 Resp: 65364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 73.8 | 55.4 | 83.2 |

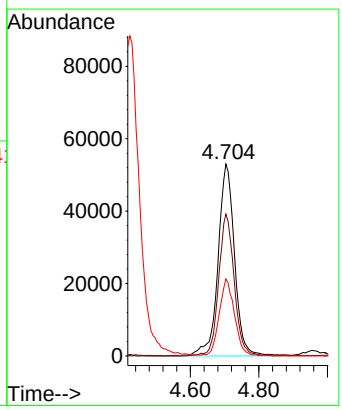


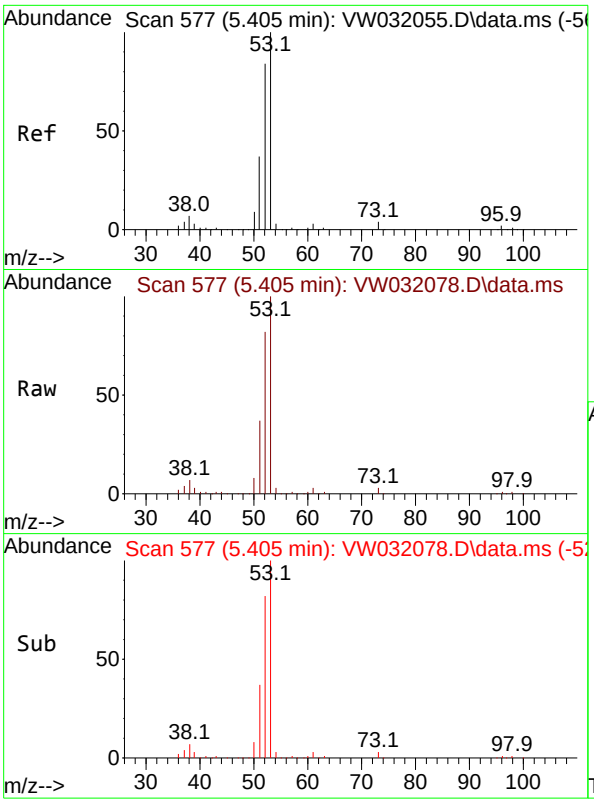




#14
Allyl chloride
Concen: 44.462 ug/l
RT: 4.704 min Scan# 462
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 41 Resp: 176474

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 69.6 | 54.5 | 81.7 |
| 76 | 36.6 | 29.3 | 43.9 |



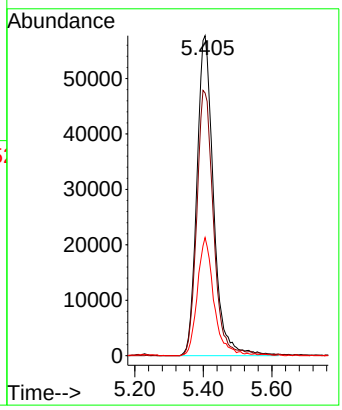


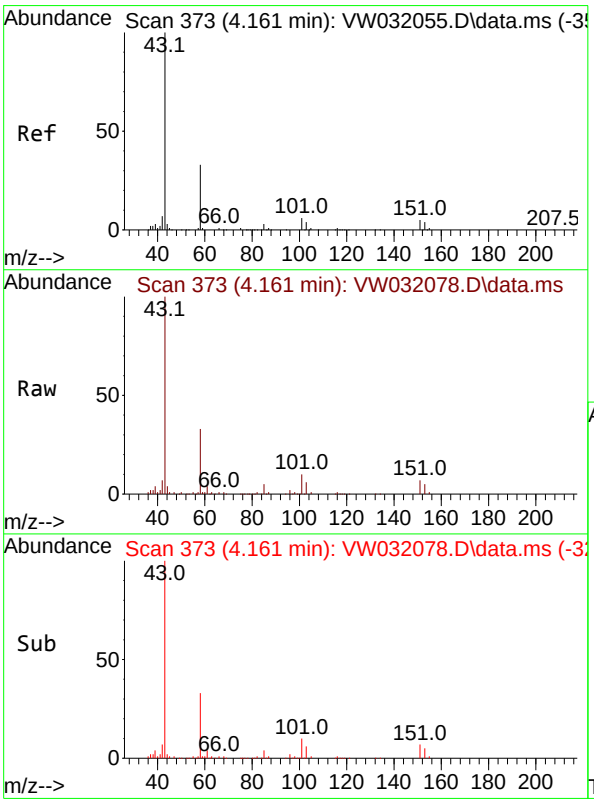

#15
Acrylonitrile
Concen: 238.510 ug/l
RT: 5.405 min Scan# 5
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 53 Resp: 195391

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 83.4 | 66.1 | 99.1 |
| 51 | 36.8 | 29.2 | 43.8 |

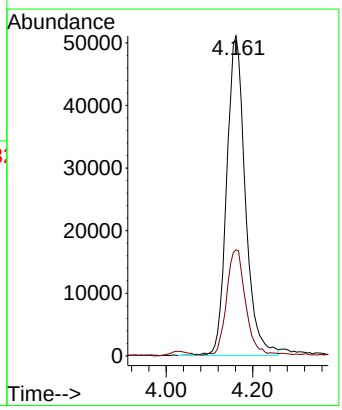


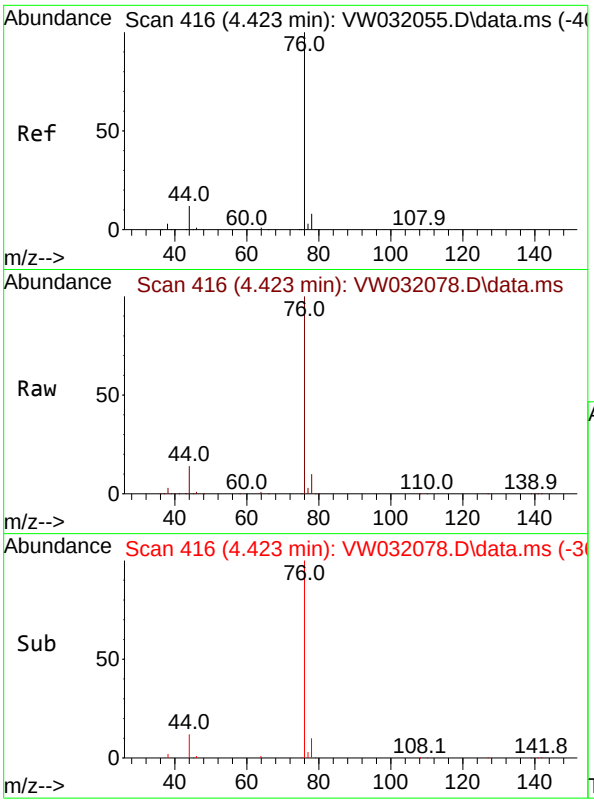




#16
Acetone
Concen: 202.983 ug/l
RT: 4.161 min Scan# 373
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 43 Resp: 152843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.4 | 26.6 | 39.8 |



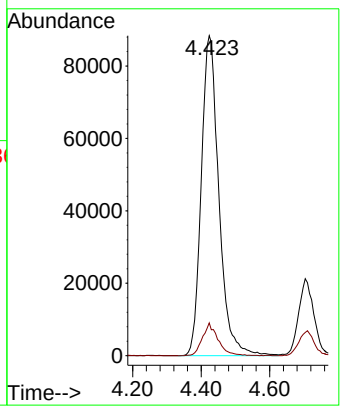


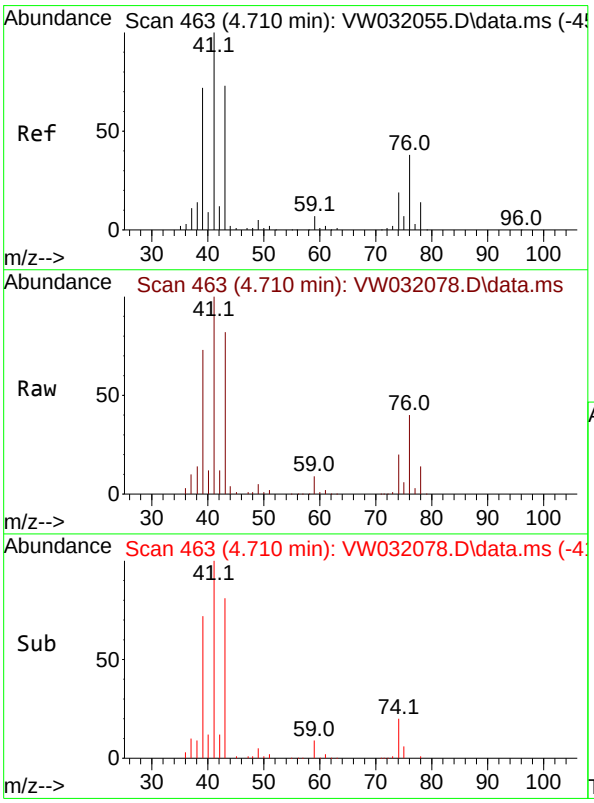

#17
Carbon Disulfide
Concen: 43.178 ug/l
RT: 4.423 min Scan# 4
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 76 Resp: 316067

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 10.3 | 6.4 | 9.6# |

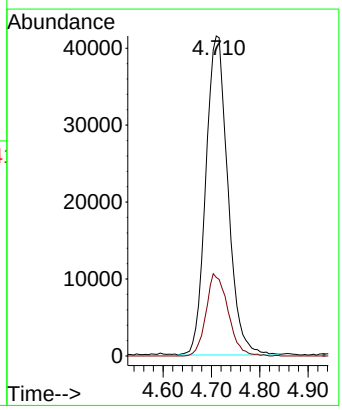


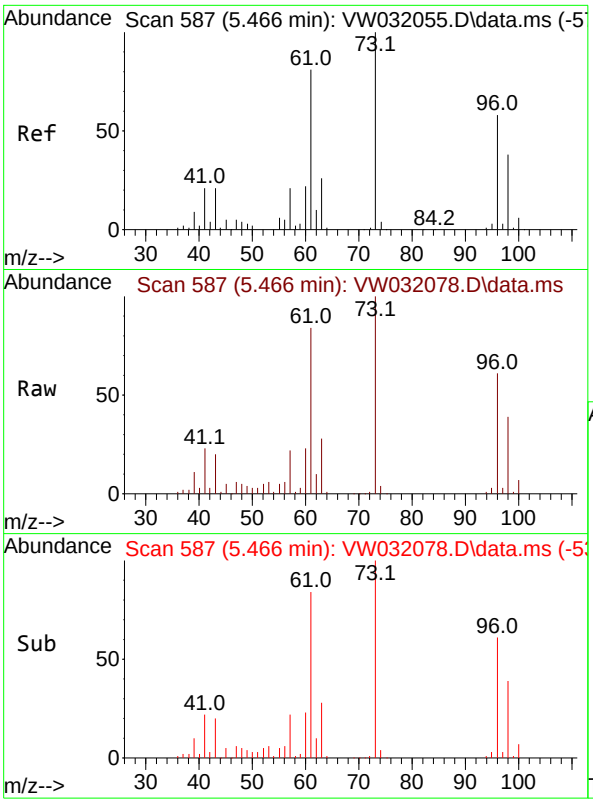




#18
Methyl Acetate
Concen: 55.142 ug/l
RT: 4.710 min Scan# 463
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 43 Resp: 131388

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 25.7 | 20.6 | 31.0 |



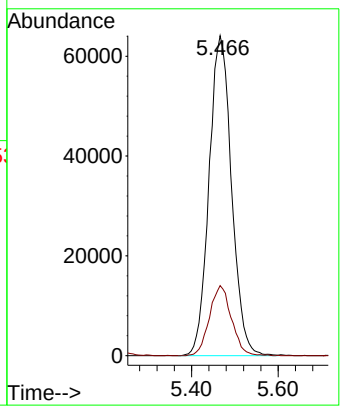


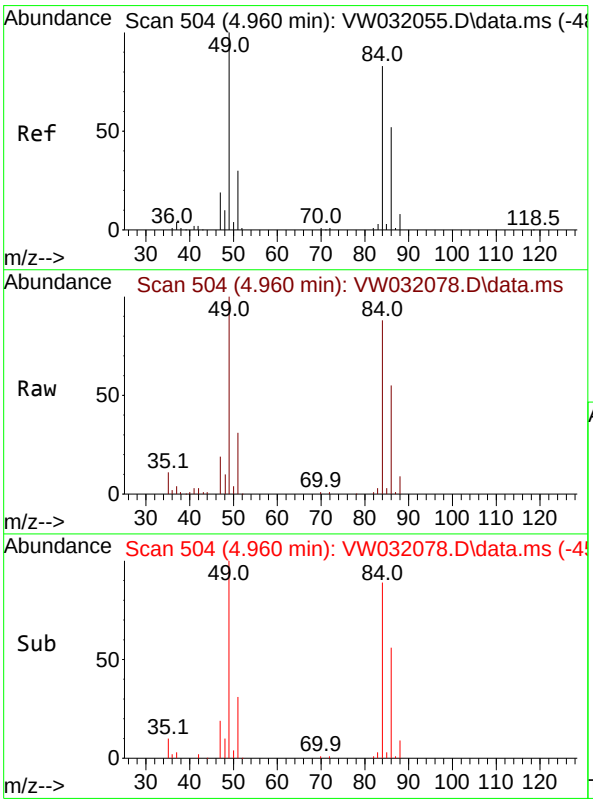

#19
Methyl tert-butyl Ether
Concen: 48.139 ug/l
RT: 5.466 min Scan# 5
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 73 Resp: 231312

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.9 | 17.2 | 25.8 |

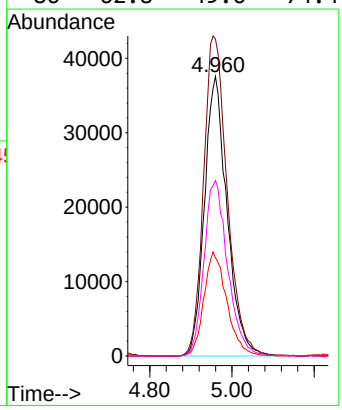


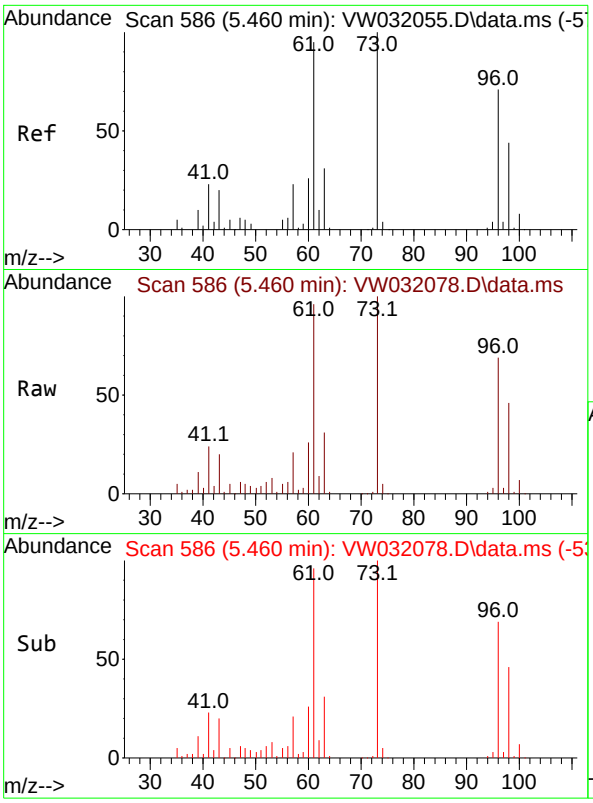




#20
Methylene Chloride
Concen: 41.285 ug/l
RT: 4.960 min Scan# 504
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 84 Resp: 143735

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 113.4 | 95.9 | 143.9 |
| 51 | 35.1 | 28.6 | 43.0 |
| 86 | 62.8 | 49.6 | 74.4 |



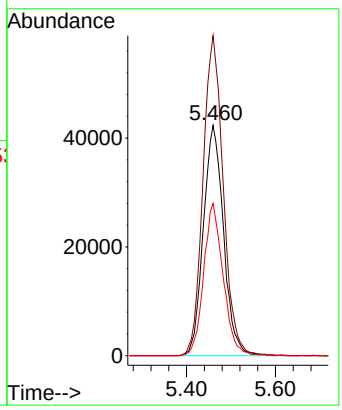


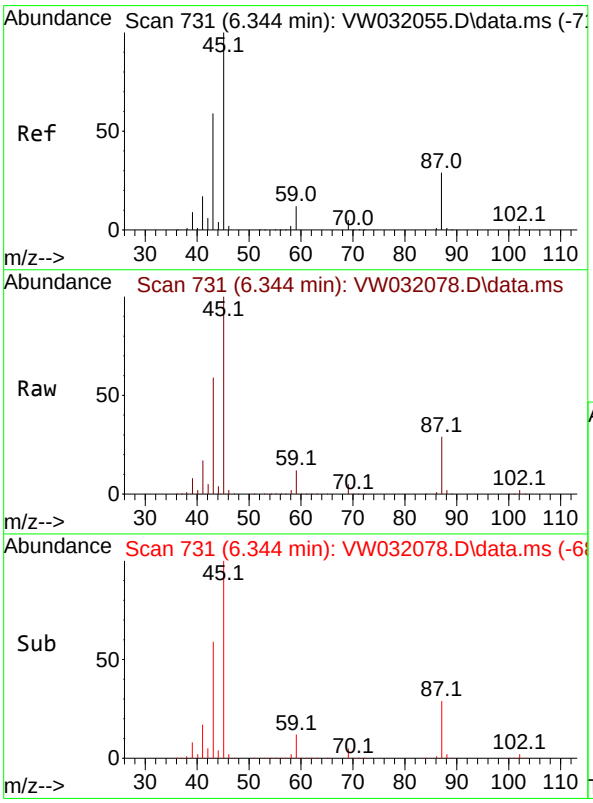

#21
trans-1,2-Dichloroethene
Concen: 46.267 ug/l
RT: 5.460 min Scan# 5
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 96 Resp: 133902

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 139.0 | 106.8 | 160.2 |
| 98 | 66.1 | 49.6 | 74.4 |

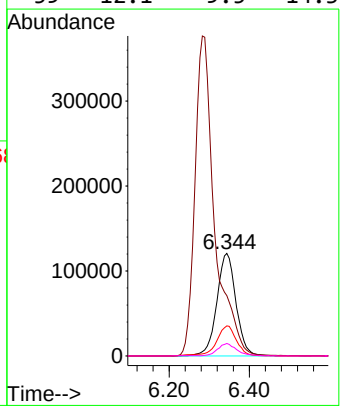


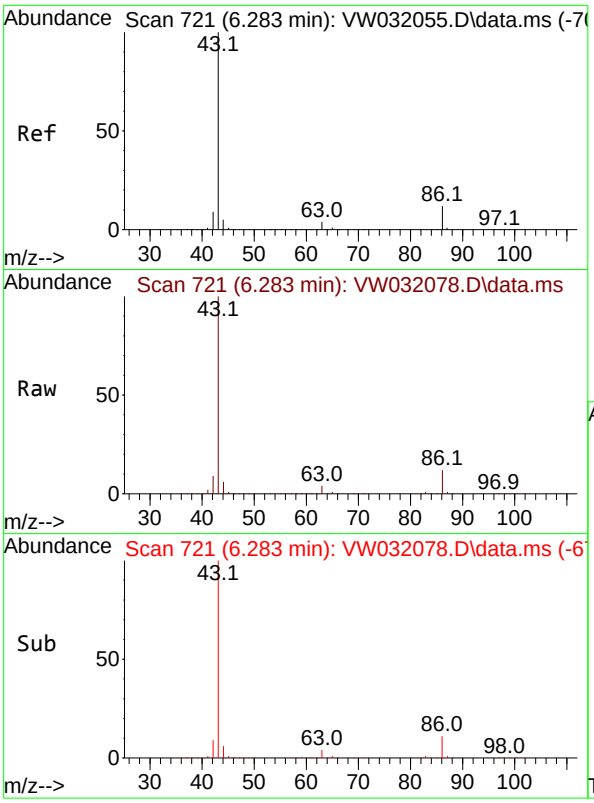




#22
Diisopropyl ether
Concen: 47.935 ug/l
RT: 6.344 min Scan# 731
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 45 Resp: 401086

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 58.5 | 47.0 | 70.4 |
| 87 | 29.3 | 23.8 | 35.8 |
| 59 | 12.1 | 9.5 | 14.3 |



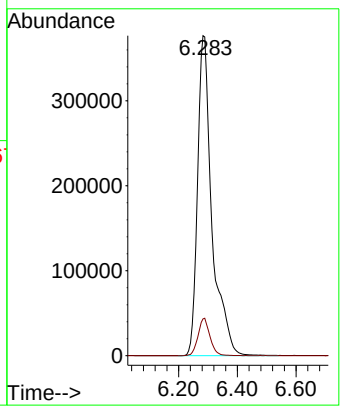


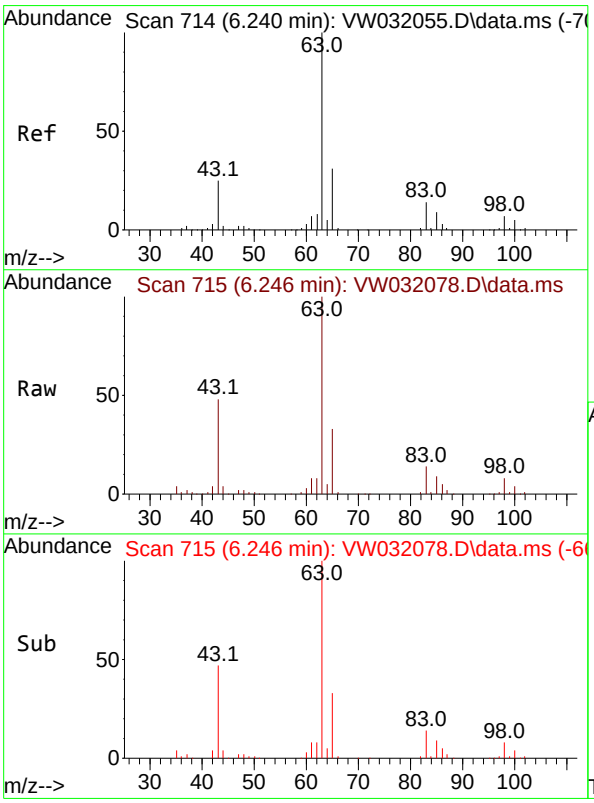

#23
Vinyl Acetate
Concen: 233.574 ug/l
RT: 6.283 min Scan# 7
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 43 Resp: 1283164

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.5 | 9.4 | 14.0 |

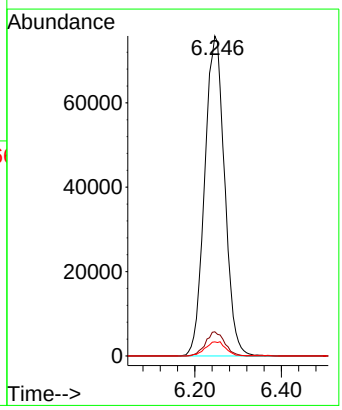


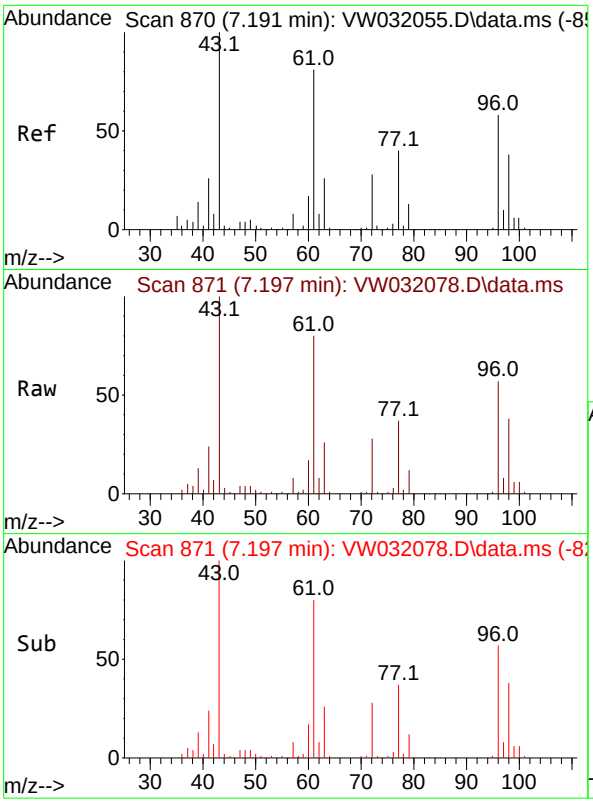




#24
1,1-Dichloroethane
Concen: 45.363 ug/l
RT: 6.246 min Scan# 715
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 63 Resp: 242514

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.5 | 3.7 | 11.1 |
| 100 | 4.4 | 2.5 | 7.4 |



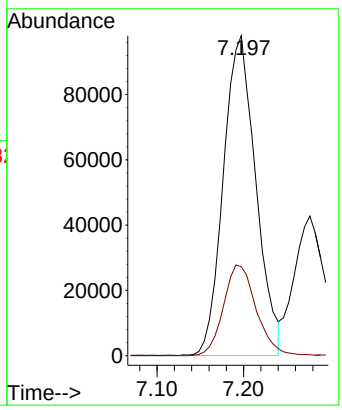


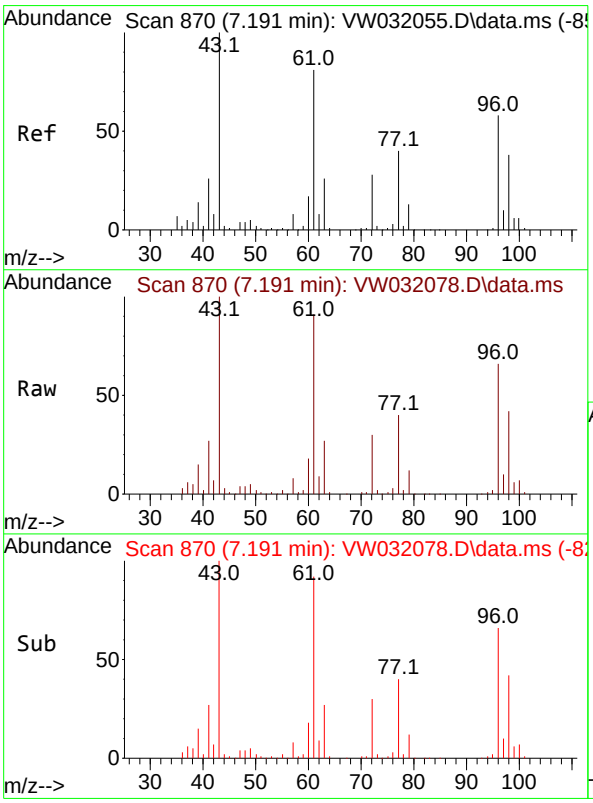

#25
2-Butanone
Concen: 238.766 ug/l
RT: 7.197 min Scan# 8
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 43 Resp: 255523

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 27.8 | 22.3 | 33.5 |

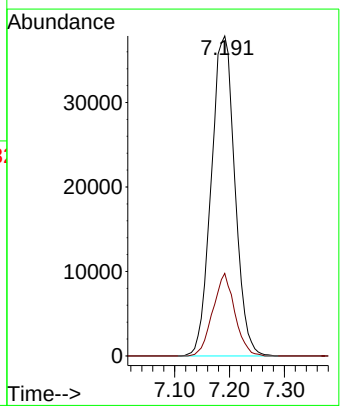


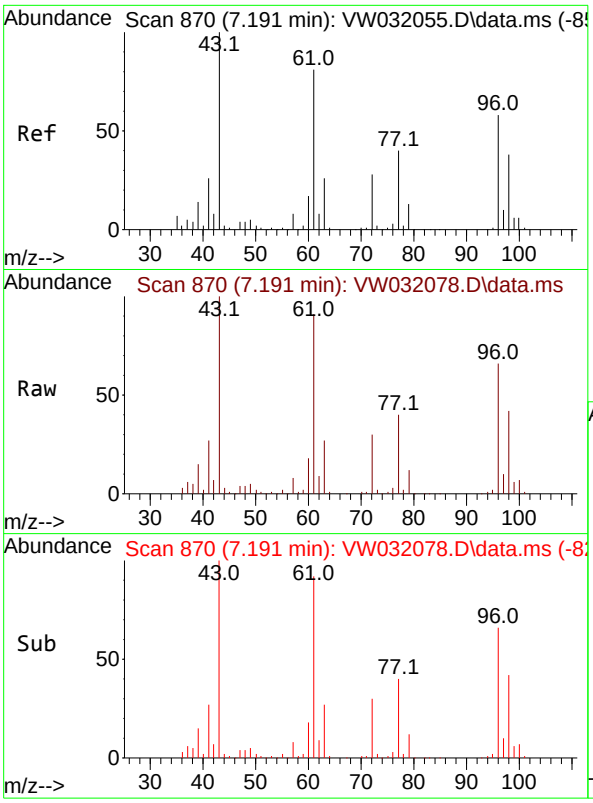




#26
2,2-Dichloropropane
Concen: 42.306 ug/l
RT: 7.191 min Scan# 870
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 77 Resp: 113466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 24.0 | 12.3 | 36.9 |



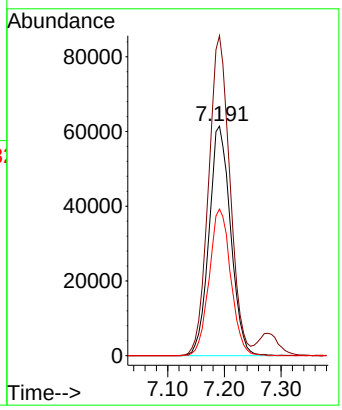


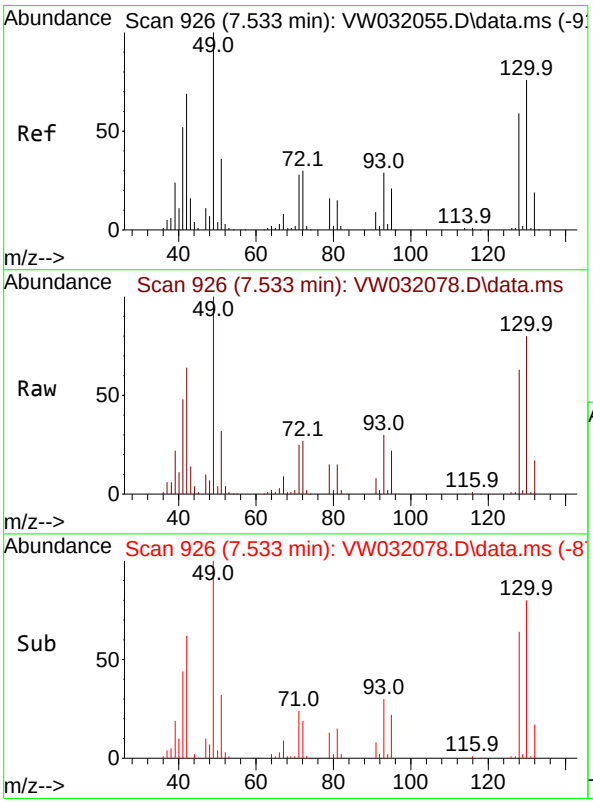

#27
cis-1,2-Dichloroethene
Concen: 48.061 ug/l
RT: 7.191 min Scan# 8
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 96 Resp: 162586

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 137.9 | 0.0 | 281.2 |
| 98 | 63.8 | 0.0 | 130.8 |

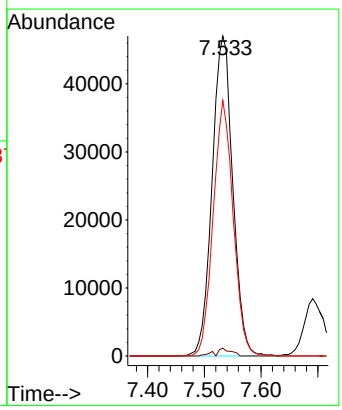


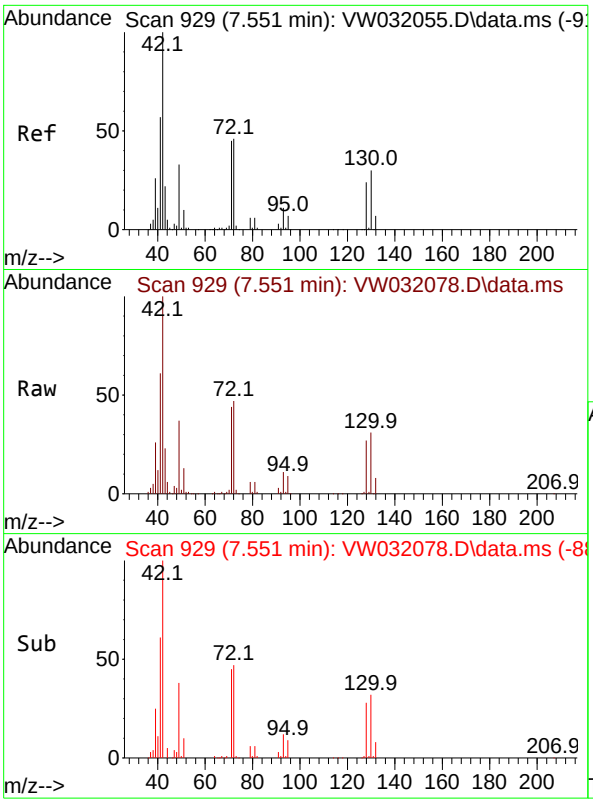




#28
Bromochloromethane
Concen: 48.947 ug/l
RT: 7.533 min Scan# 926
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 49 Resp: 119080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.8 | 0.0 | 4.2 |
| 130 | 77.4 | 61.9 | 92.9 |



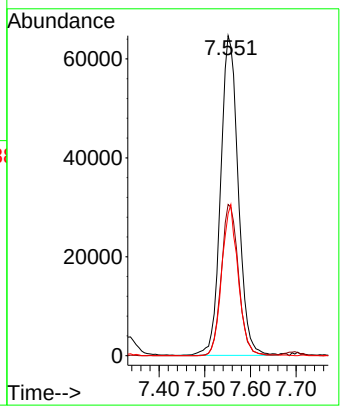


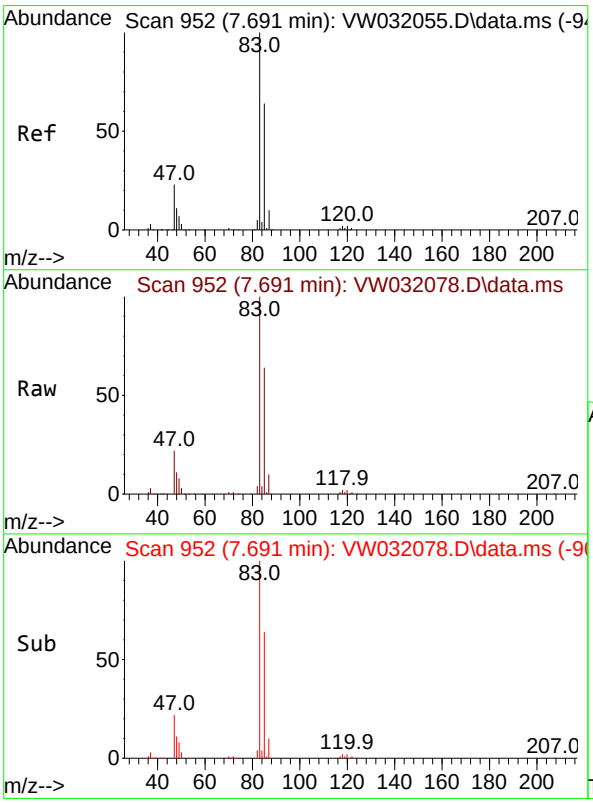

#29
Tetrahydrofuran
Concen: 245.333 ug/l
RT: 7.551 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 42 Resp: 173149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 46.2 | 36.6 | 55.0 |
| 71 | 43.9 | 34.7 | 52.1 |

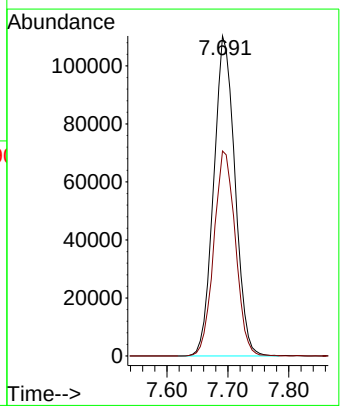


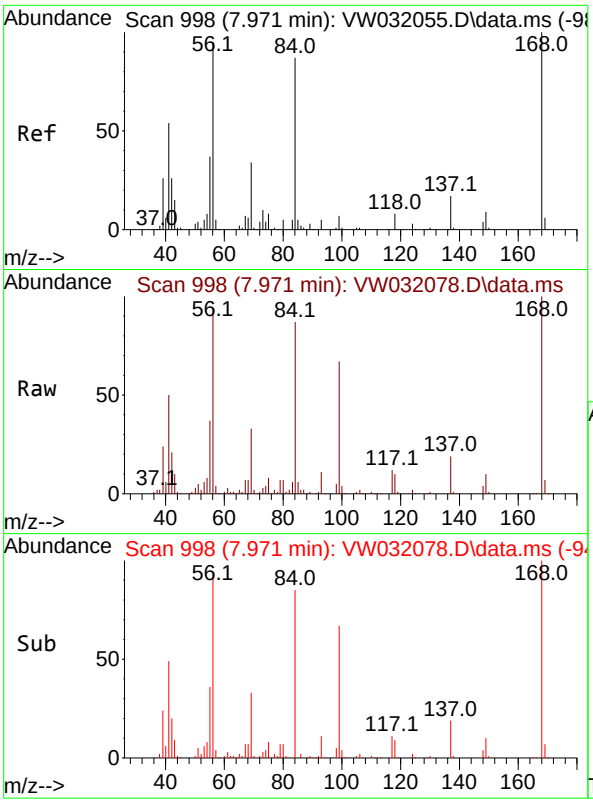




#30
Chloroform
Concen: 47.266 ug/l
RT: 7.691 min Scan# 952
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 83 Resp: 267886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.1 | 51.0 | 76.4 |



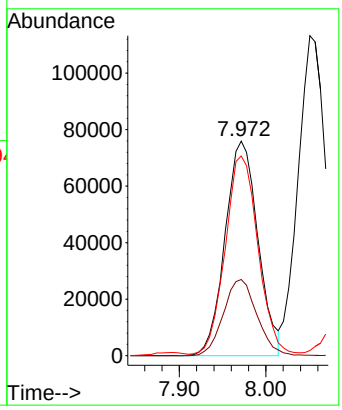


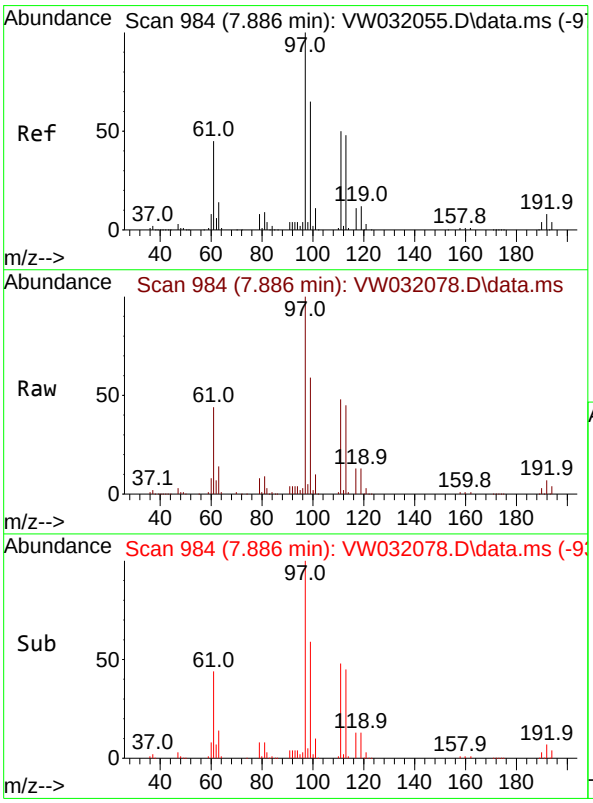

#31
Cyclohexane
Concen: 43.259 ug/l
RT: 7.971 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 56 Resp: 200498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 35.5 | 28.6 | 42.8 |
| 84 | 91.7 | 73.0 | 109.4 |

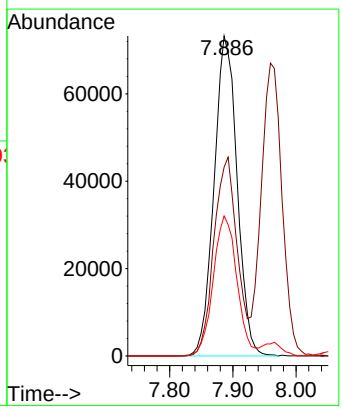


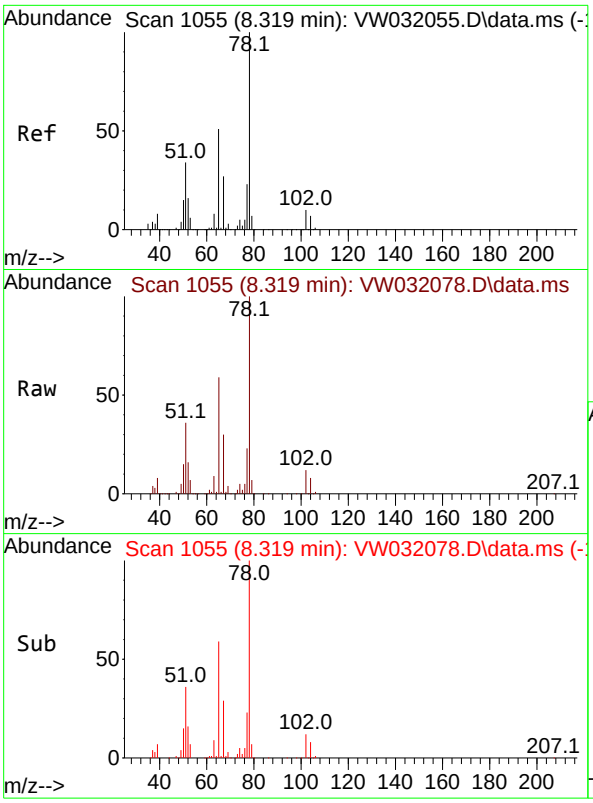




#32
1,1,1-Trichloroethane
Concen: 44.949 ug/l
RT: 7.886 min Scan# 984
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 97 Resp: 185041

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 62.2 | 51.8 | 77.8 |
| 61 | 44.8 | 35.9 | 53.9 |



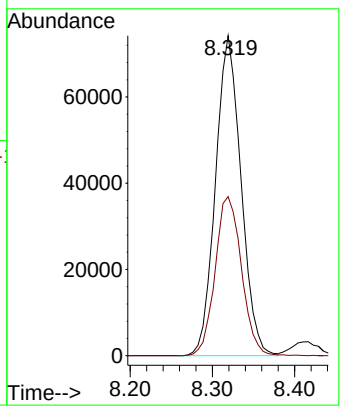


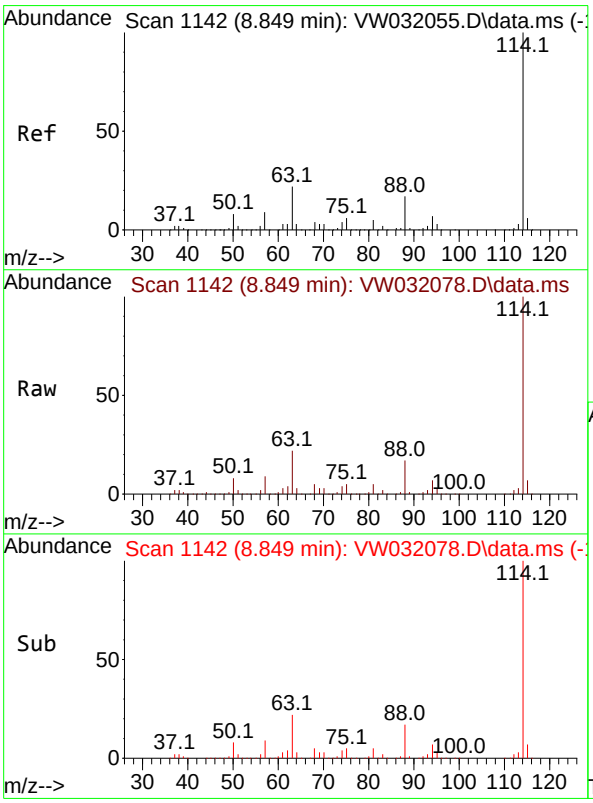

#33
1,2-Dichloroethane-d4
Concen: 49.202 ug/l
RT: 8.319 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 65 Resp: 160017

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.3 | 0.0 | 102.4 |

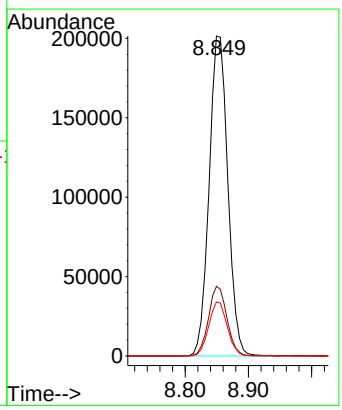


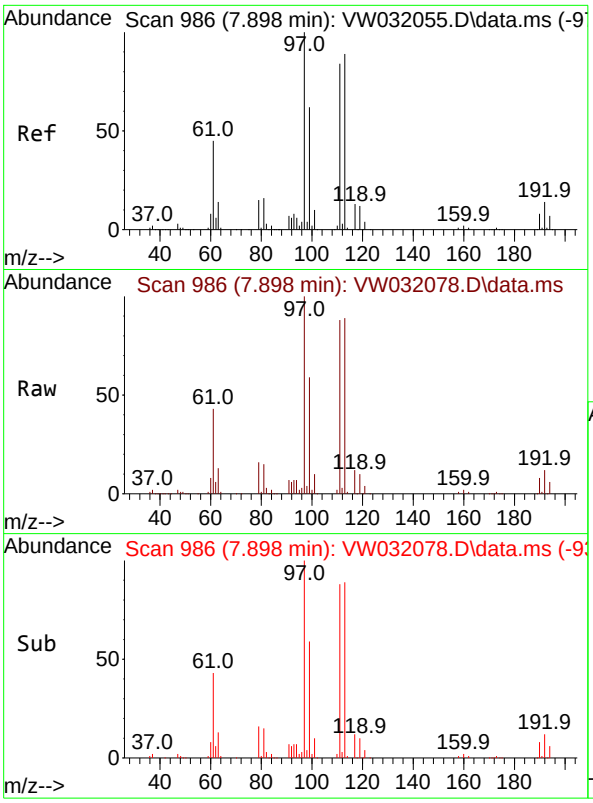




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:114 Resp: 413610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.7 | 0.0 | 43.0 |
| 88 | 16.8 | 0.0 | 33.8 |



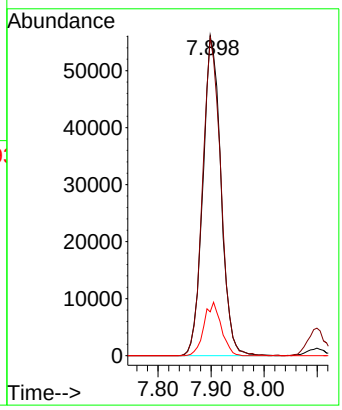


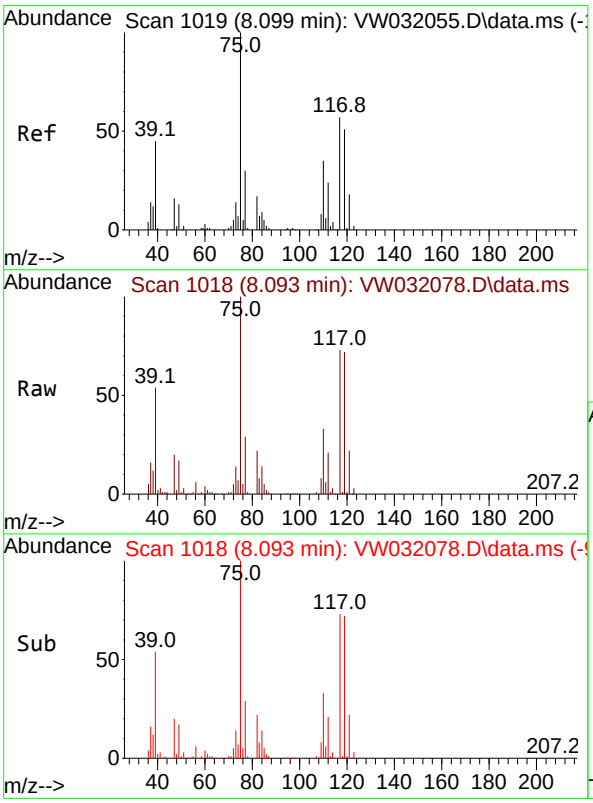

#35
Dibromofluoromethane
Concen: 49.565 ug/l
RT: 7.898 min Scan# 9
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:113 Resp: 132442

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 100.2 | 80.1 | 120.1 |
| 192 | 16.0 | 13.1 | 19.7 |

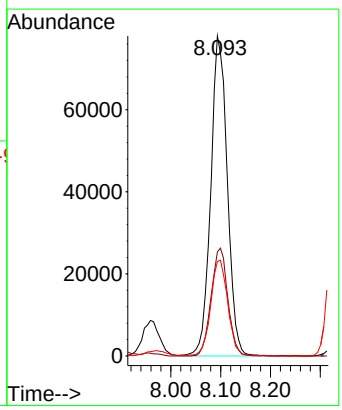


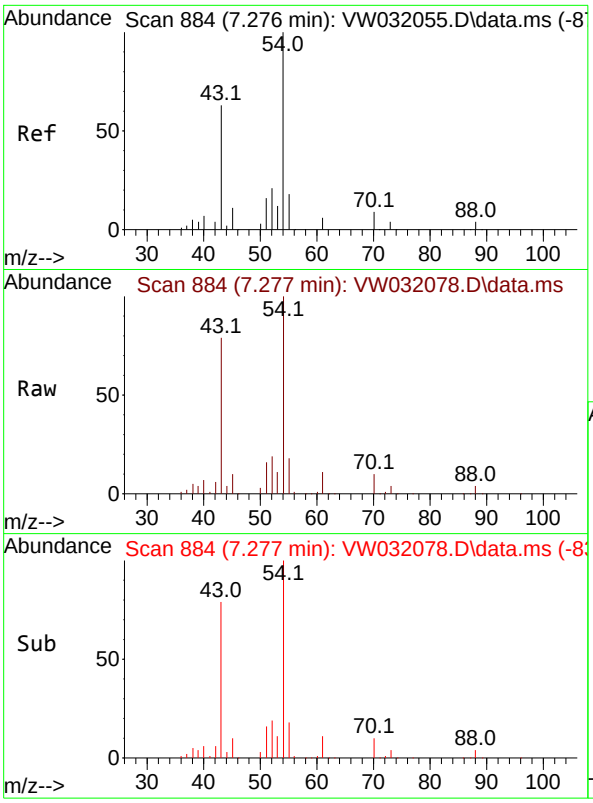




#36
1,1-Dichloropropene
Concen: 47.825 ug/l
RT: 8.093 min Scan# 1018
Delta R.T. -0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 75 Resp: 180151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 33.9 | 17.4 | 52.2 |
| 77 | 30.9 | 24.7 | 37.1 |



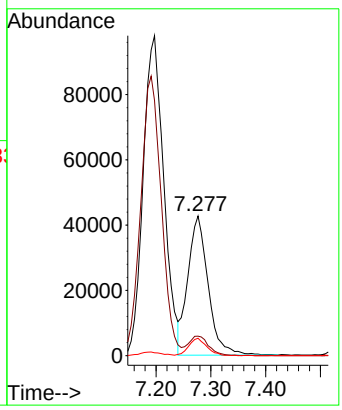


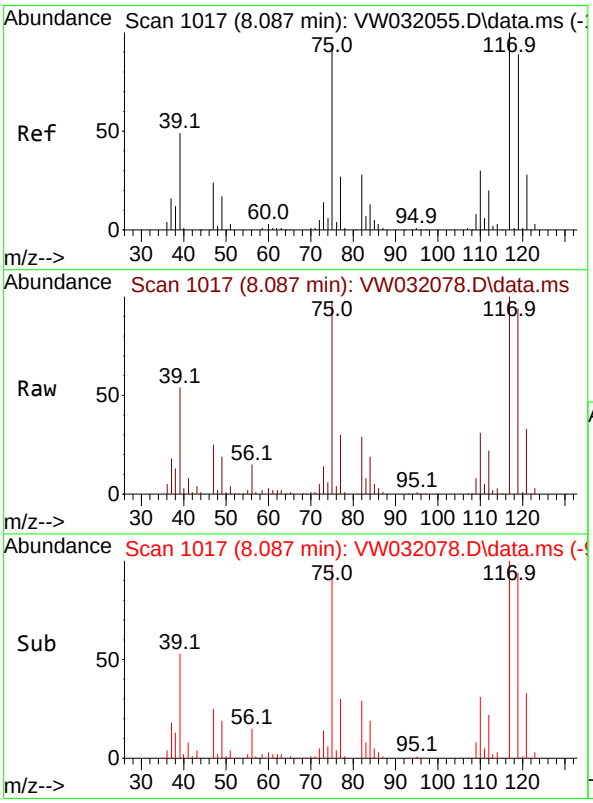

#37
Ethyl Acetate
Concen: 49.608 ug/l
RT: 7.277 min Scan# 8
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 43 Resp: 110057

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.3 | 11.8 | 17.6 |
| 70 | 11.2 | 9.4 | 14.0 |

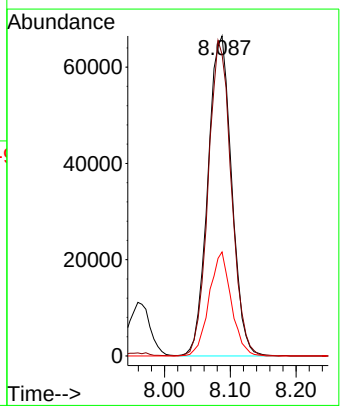


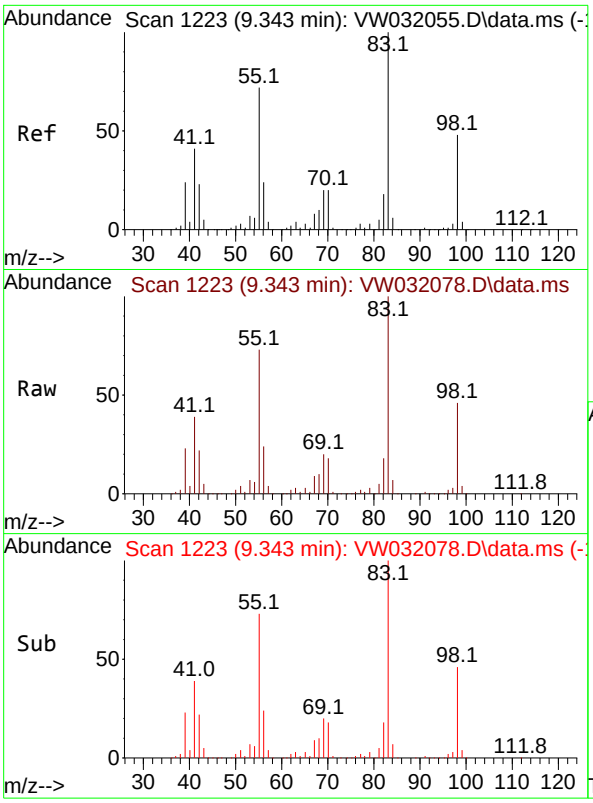




#38
Carbon Tetrachloride
Concen: 46.065 ug/l
RT: 8.087 min Scan# 1017
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:117 Resp: 167458

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.2 | 71.4 | 107.2 |
| 121 | 32.5 | 22.3 | 33.5 |



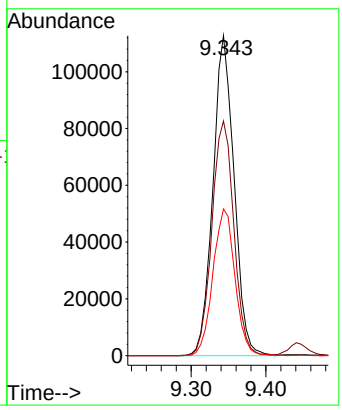


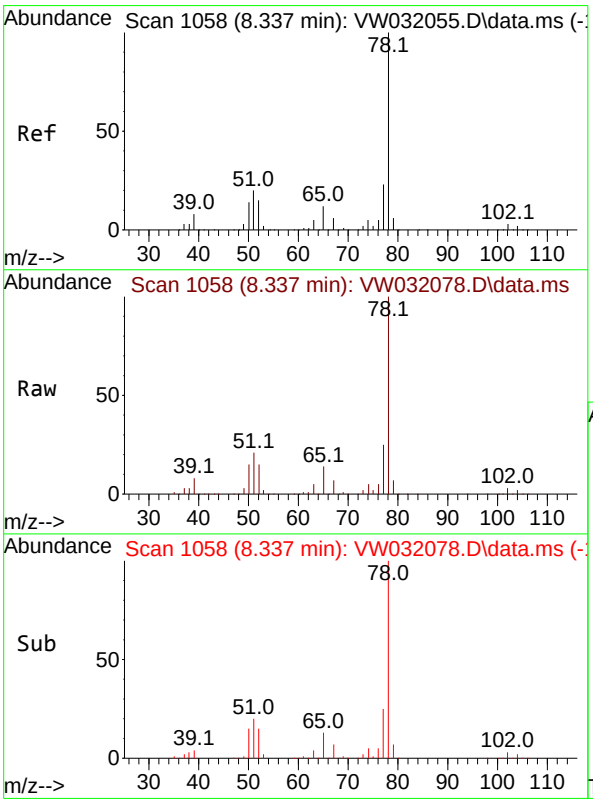

#39
Methylcyclohexane
Concen: 48.261 ug/l
RT: 9.343 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 83 Resp: 221584

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 73.3 | 57.9 | 86.9 |
| 98 | 45.9 | 38.3 | 57.5 |

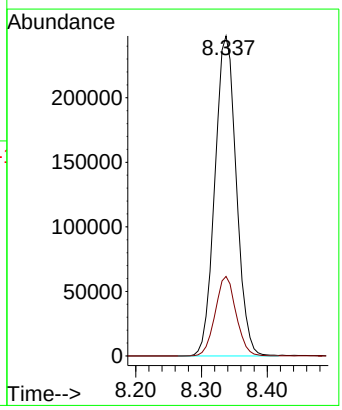


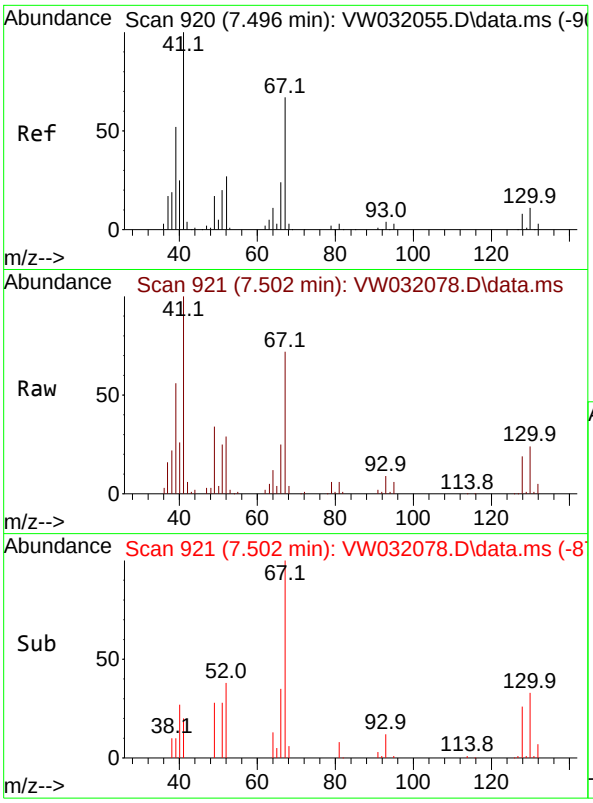




#40
Benzene
Concen: 47.879 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 78 Resp: 560623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.9 | 18.4 | 27.6 |



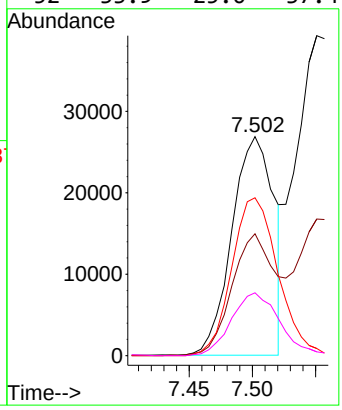


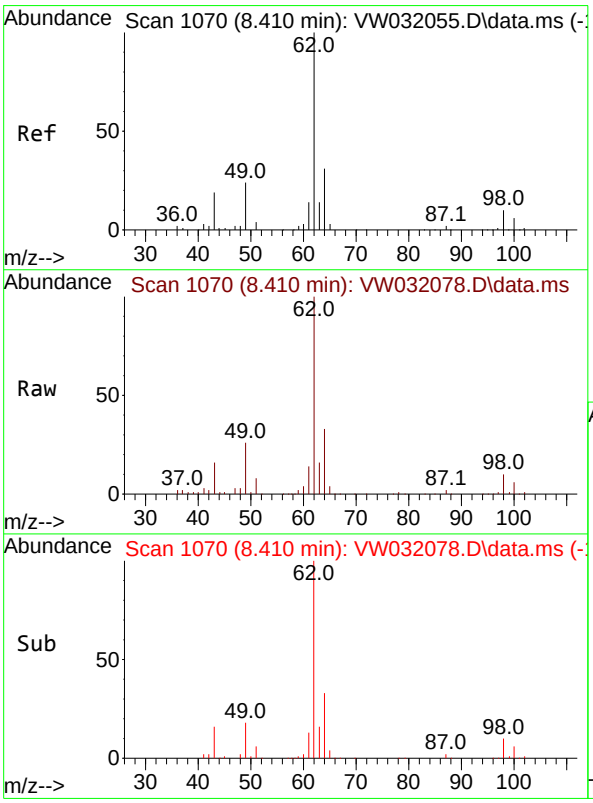

#41
Methacrylonitrile
Concen: 49.286 ug/l
RT: 7.502 min Scan# 9
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 41 Resp: 62009

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 60.4 | 42.6 | 63.8 |
| 67 | 79.8 | 61.0 | 91.4 |
| 52 | 33.9 | 25.0 | 37.4 |

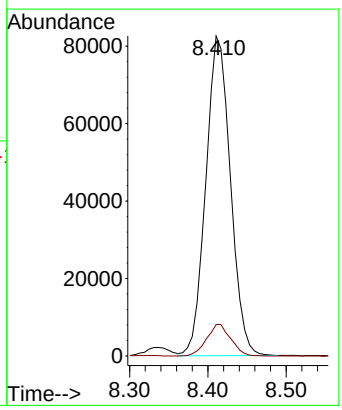


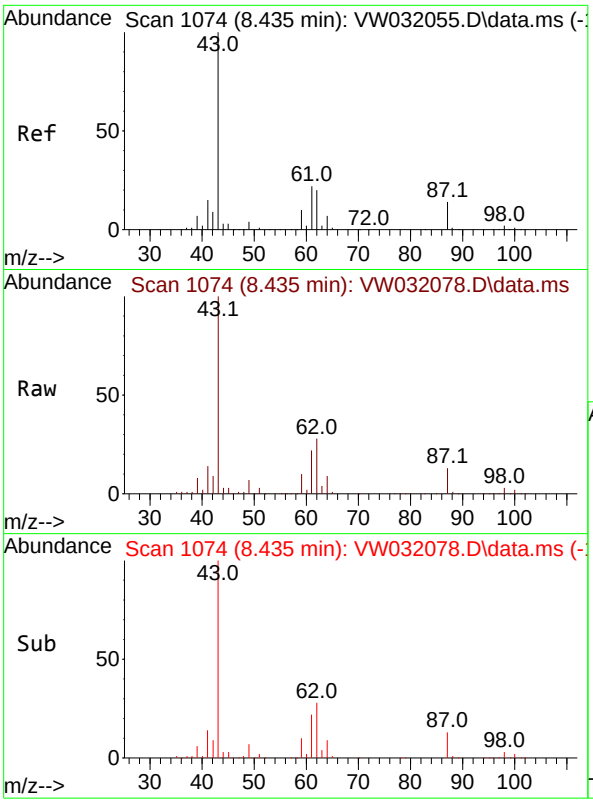




#42
1,2-Dichloroethane
Concen: 48.163 ug/l
RT: 8.410 min Scan# 1070
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 62 Resp: 180455

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.6 | 0.0 | 19.8 |



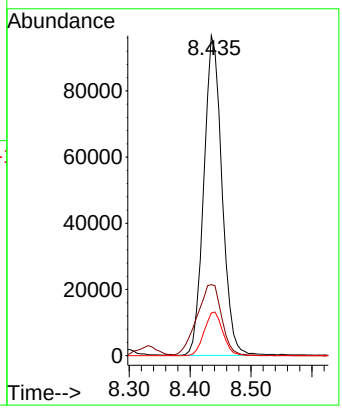


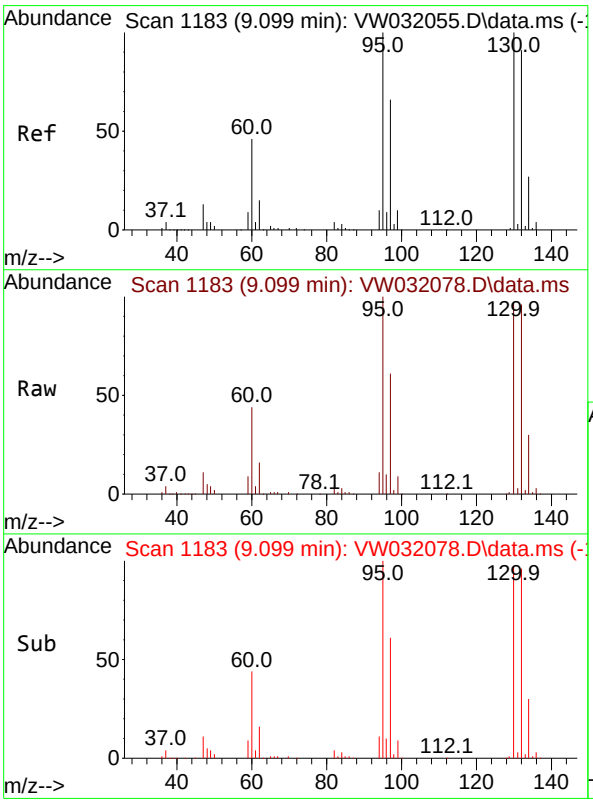

#43
Isopropyl Acetate
Concen: 49.147 ug/l
RT: 8.435 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 43 Resp: 200606

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 30.0 | 23.8 | 35.8 |
| 87 | 14.1 | 11.7 | 17.5 |

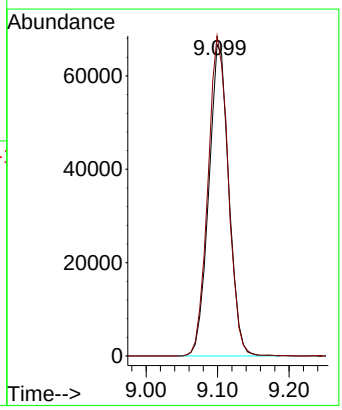


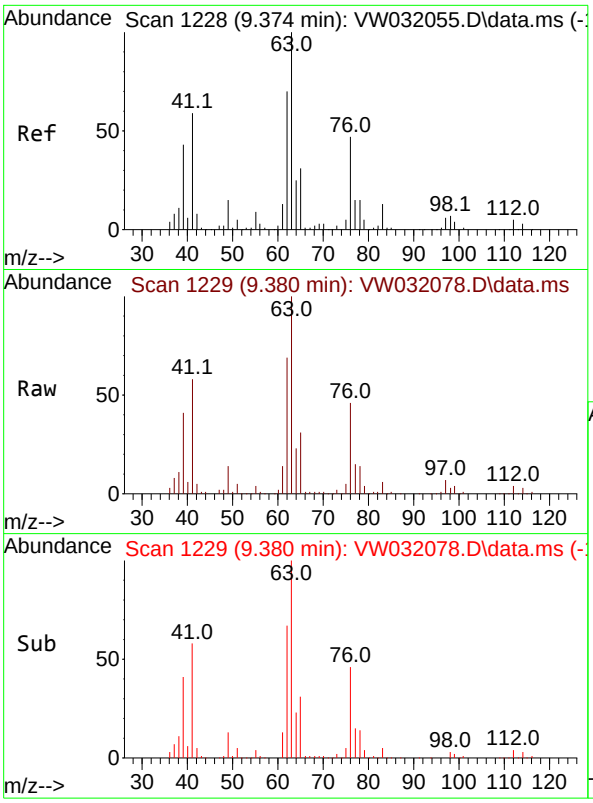




#44
Trichloroethene
Concen: 46.608 ug/l
RT: 9.099 min Scan# 1183
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:130 Resp: 129965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 102.8 | 0.0 | 200.6 |



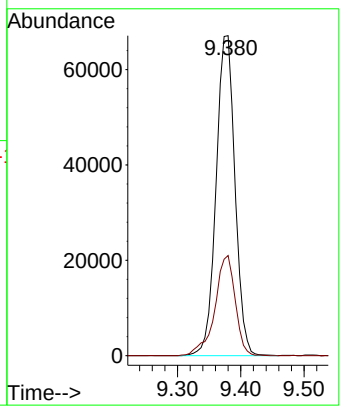


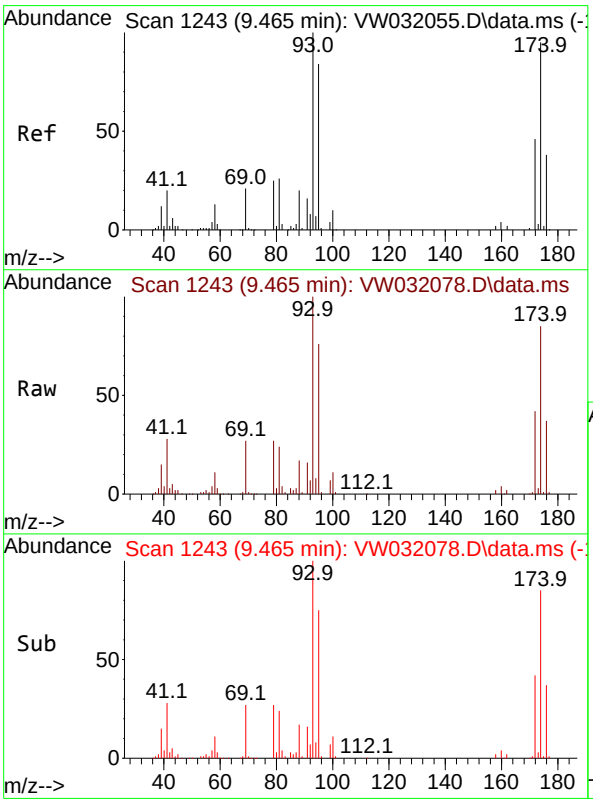

#45
1,2-Dichloropropane
Concen: 49.043 ug/l
RT: 9.380 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 63 Resp: 138731

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.3 | 24.6 | 36.8 |

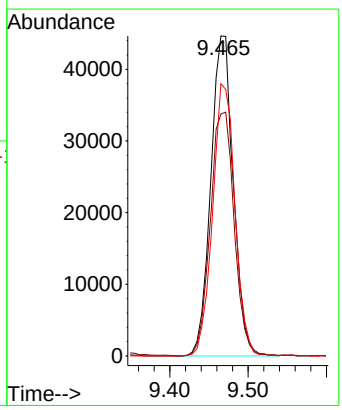


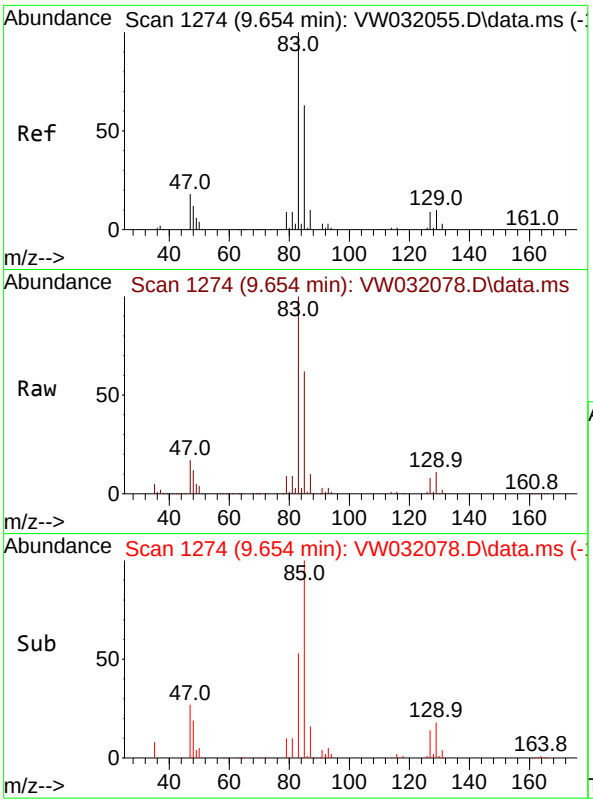




#46
Dibromomethane
Concen: 48.945 ug/l
RT: 9.465 min Scan# 1243
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 93 Resp: 89360

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 80.9 | 65.3 | 97.9 |
| 174 | 84.5 | 68.6 | 102.8 |



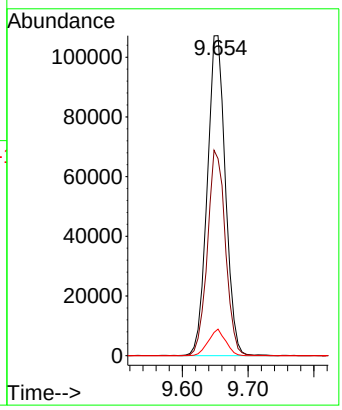


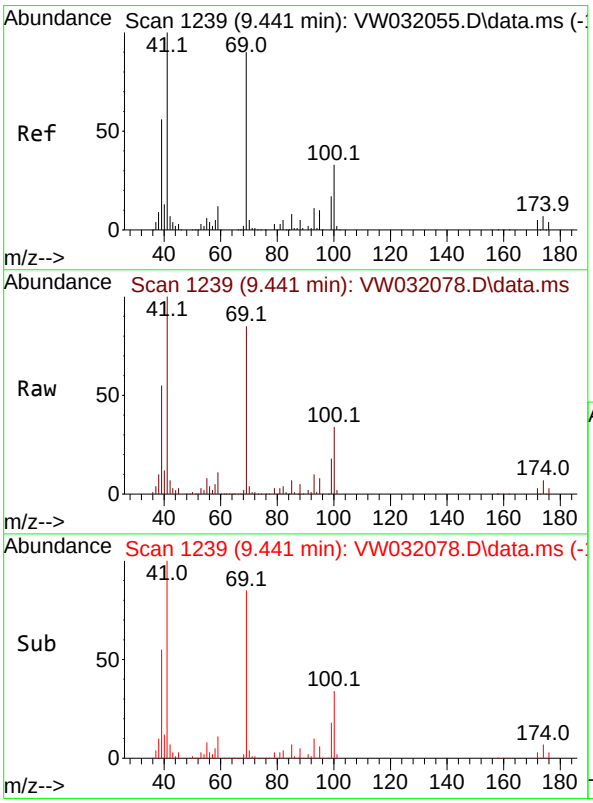

#47
Bromodichloromethane
Concen: 48.852 ug/l
RT: 9.654 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 83 Resp: 205517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 61.5 | 50.6 | 75.8 |
| 127 | 8.3 | 6.9 | 10.3 |

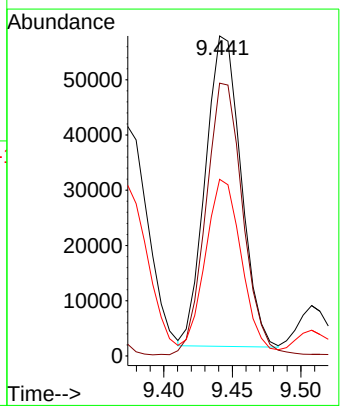


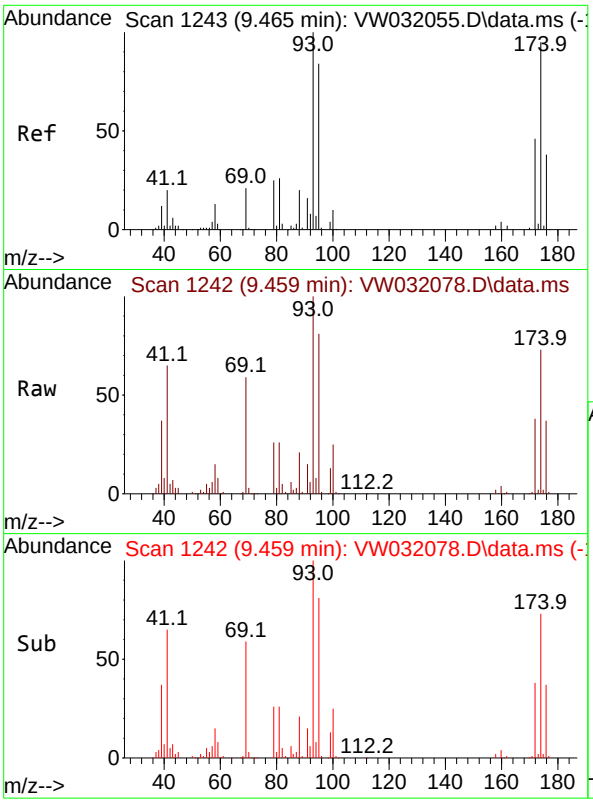




#48
Methyl methacrylate
Concen: 51.471 ug/l
RT: 9.441 min Scan# 1239
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 41 Resp: 101426

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 92.0 | 73.0 | 109.6 |
| 39 | 58.7 | 45.0 | 67.4 |



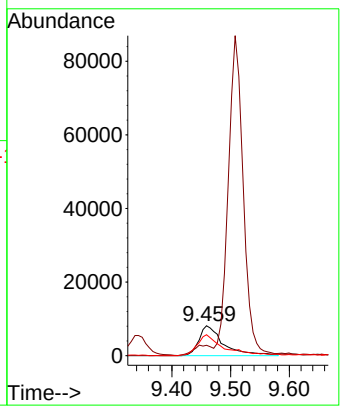


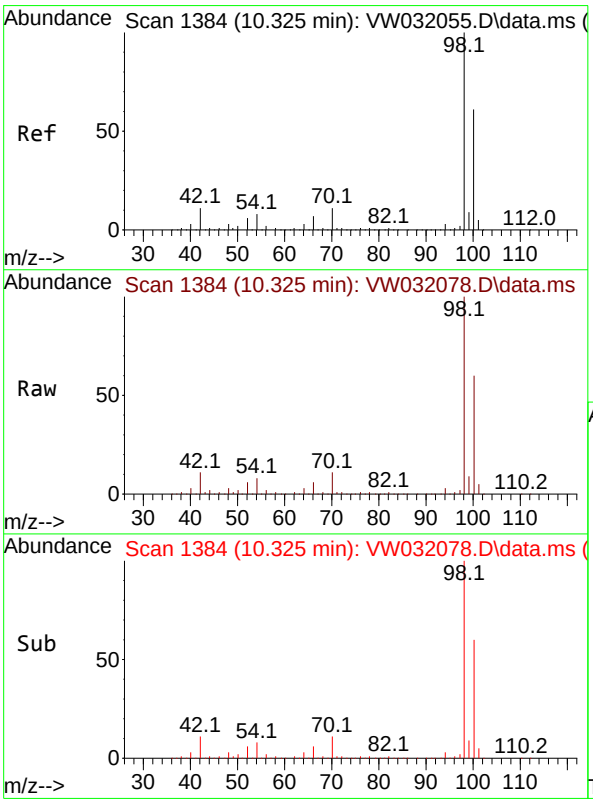

#49
1,4-Dioxane
Concen: 1001.497 ug/l
RT: 9.459 min Scan# 1
Delta R.T. -0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 88 Resp: 23641

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 26.2 | 20.6 | 30.8 |
| 58 | 76.7 | 60.4 | 90.6 |

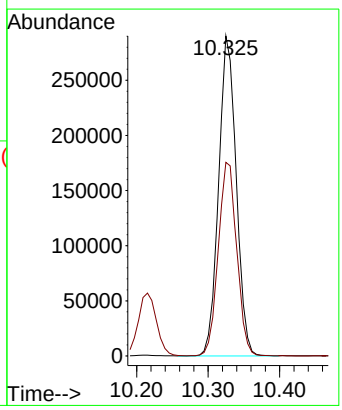


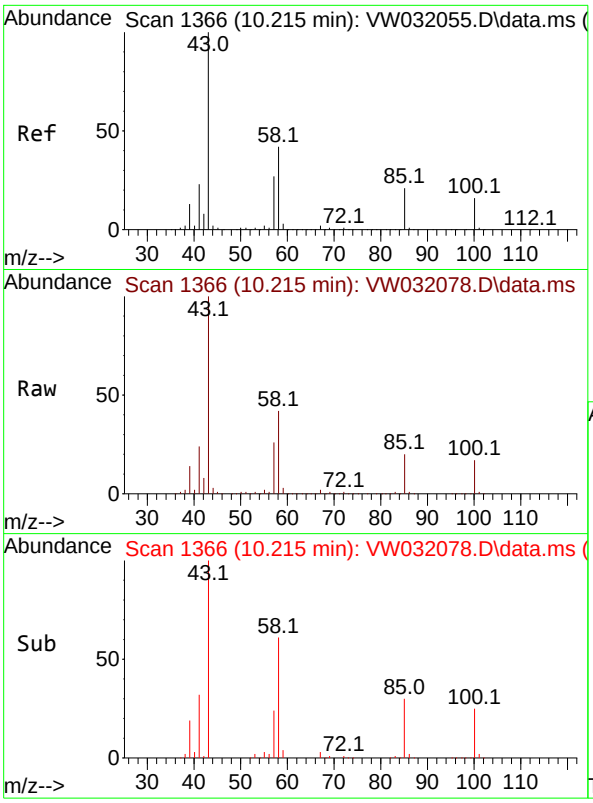




#50
Toluene-d8
Concen: 50.187 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 98 Resp: 496013

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.5 | 51.1 | 76.7 |



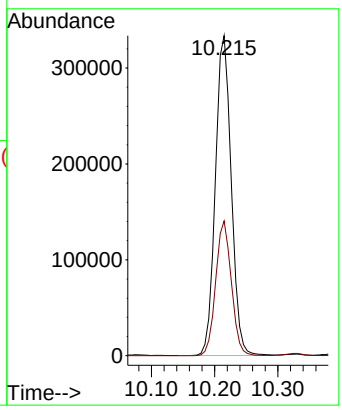


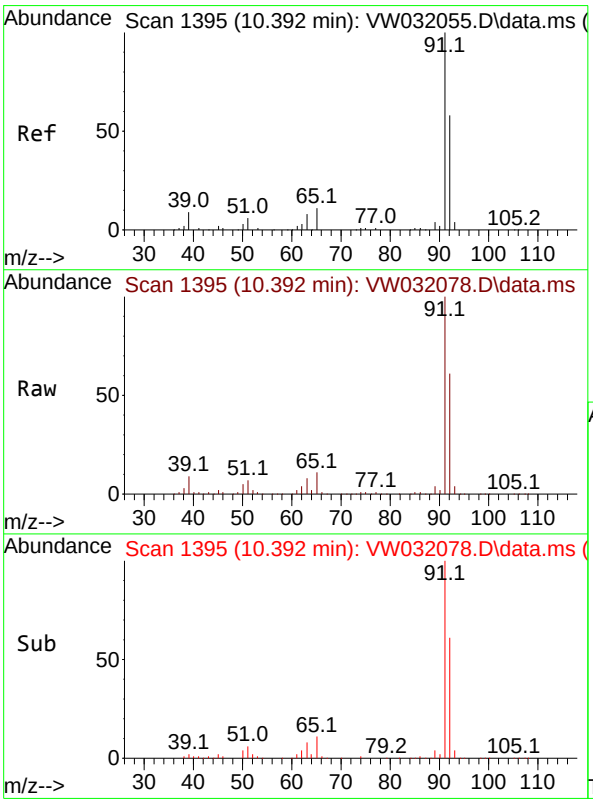

#51
4-Methyl-2-Pentanone
Concen: 252.344 ug/l
RT: 10.215 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 43 Resp: 581370

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 41.5 | 33.1 | 49.7 |

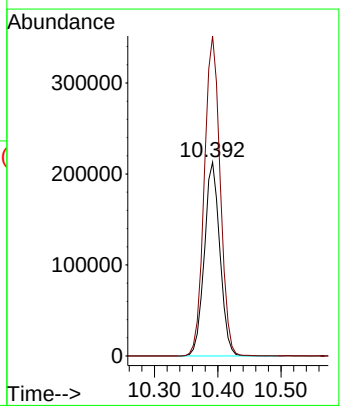


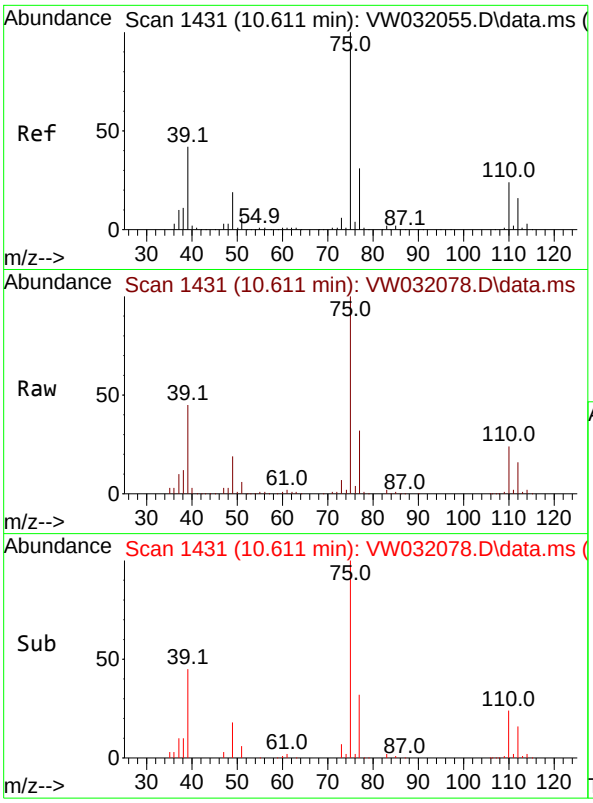




#52
Toluene
Concen: 49.271 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 92 Resp: 363384

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 168.9 | 136.3 | 204.5 |



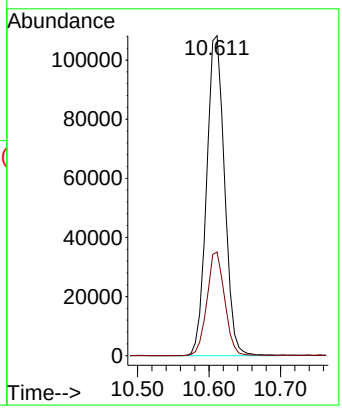


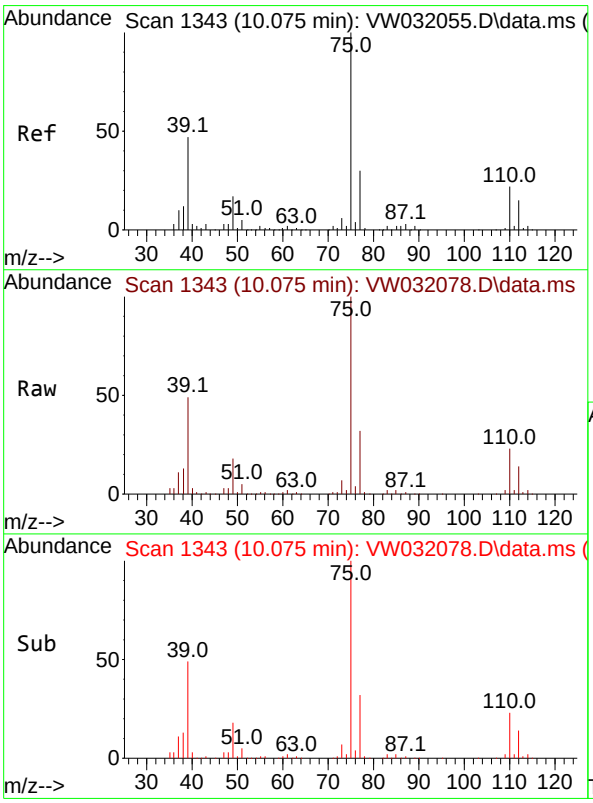

#53
t-1,3-Dichloropropene
Concen: 47.848 ug/l
RT: 10.611 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 75 Resp: 188585

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.3 | 25.0 | 37.6 |

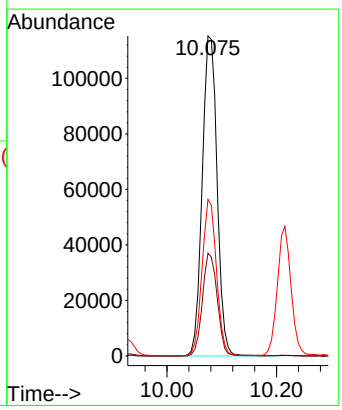


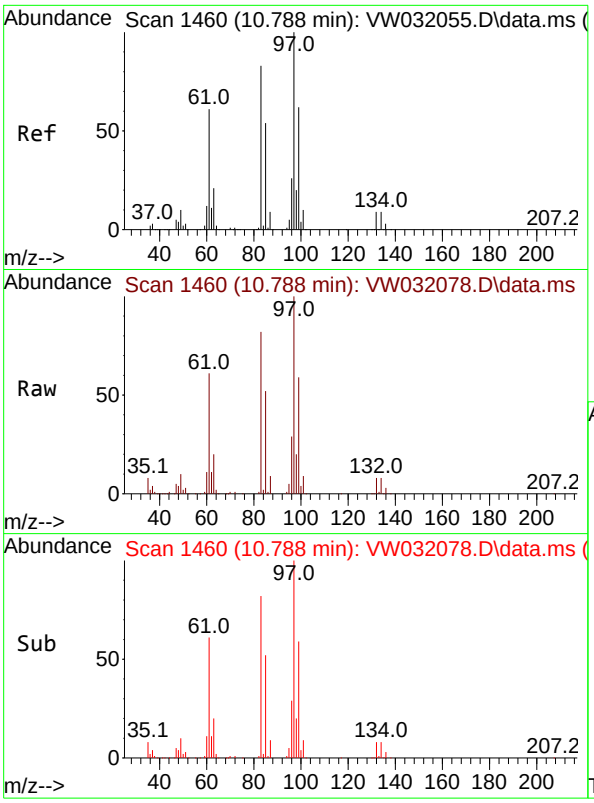




#54
cis-1,3-Dichloropropene
Concen: 48.425 ug/l
RT: 10.075 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 75 Resp: 216528

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.1 | 24.0 | 36.0 |
| 39 | 48.8 | 37.8 | 56.8 |



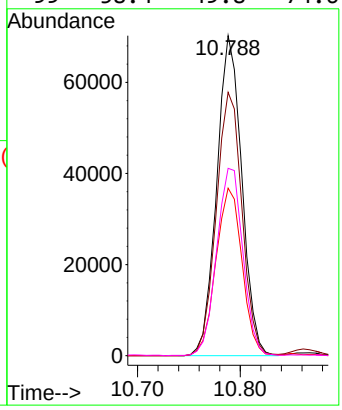


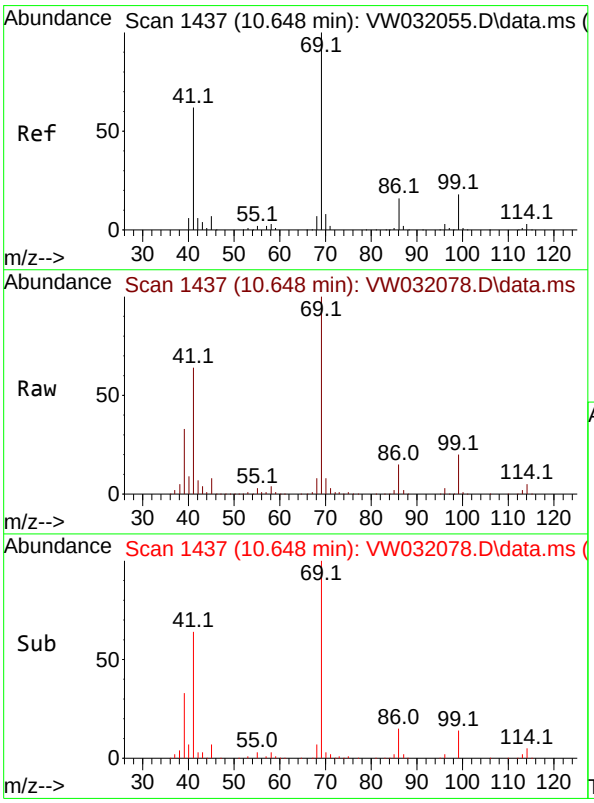

#55
1,1,2-Trichloroethane
Concen: 49.042 ug/l
RT: 10.788 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 97 Resp: 118978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 82.3 | 66.4 | 99.6 |
| 85 | 52.4 | 43.1 | 64.7 |
| 99 | 58.4 | 49.8 | 74.6 |

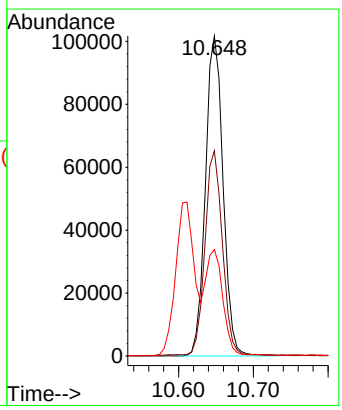


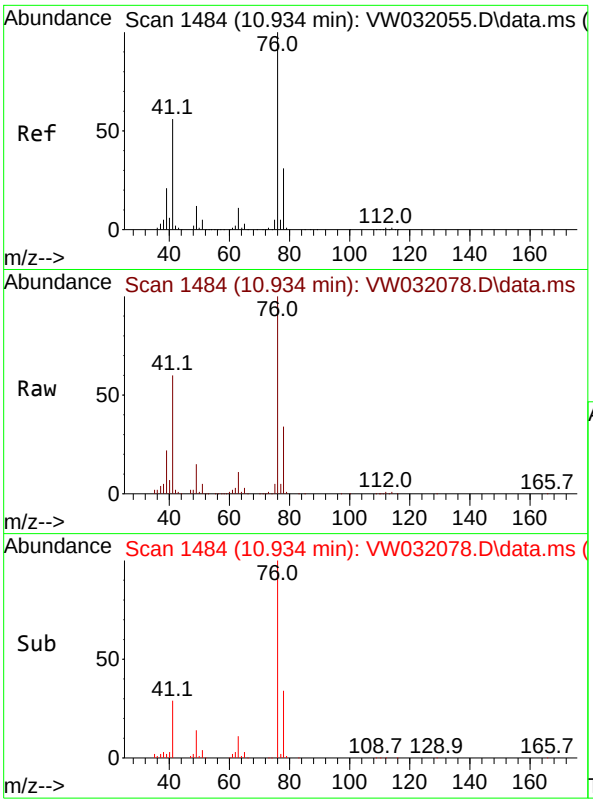




#56
Ethyl methacrylate
Concen: 51.306 ug/l
RT: 10.648 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 69 Resp: 166567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 64.1 | 51.2 | 76.8 |
| 39 | 32.3 | 25.4 | 38.0 |



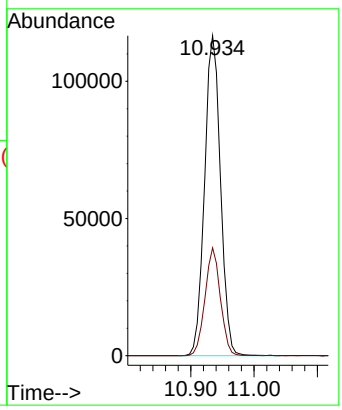


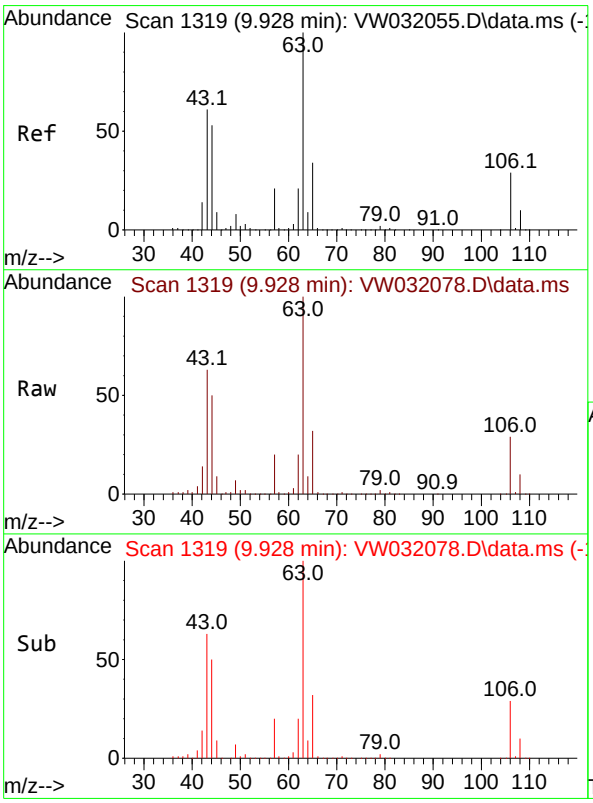

#57
1,3-Dichloropropane
Concen: 48.292 ug/l
RT: 10.934 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 76 Resp: 204220

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.5 | 25.8 | 38.6 |

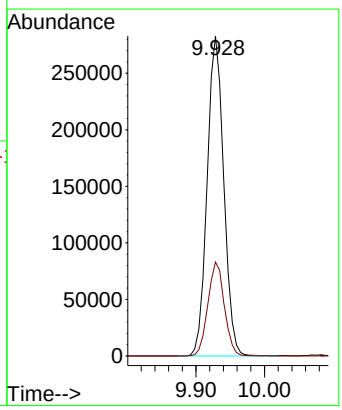


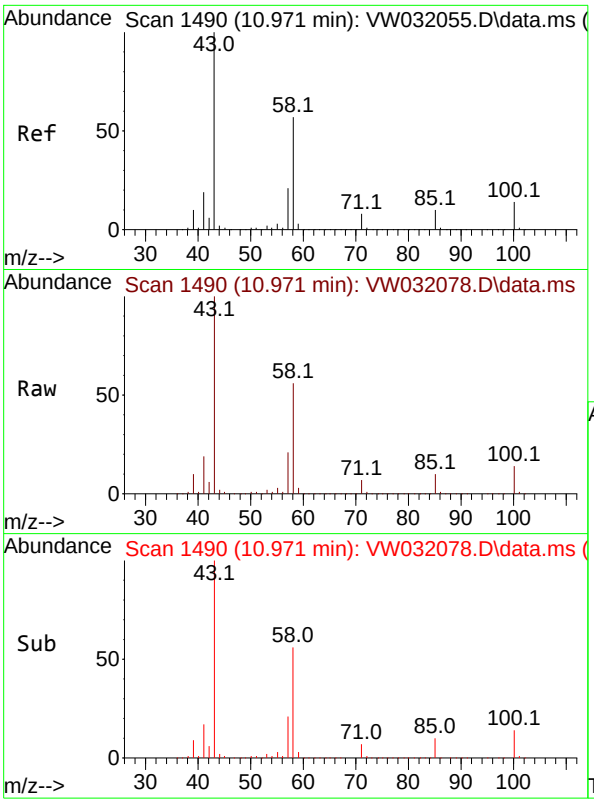




#58
2-Chloroethyl Vinyl ether
Concen: 265.209 ug/l
RT: 9.928 min Scan# 1319
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 63 Resp: 476248

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 29.0 | 23.5 | 35.3 |



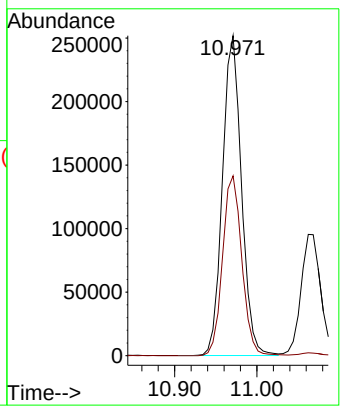


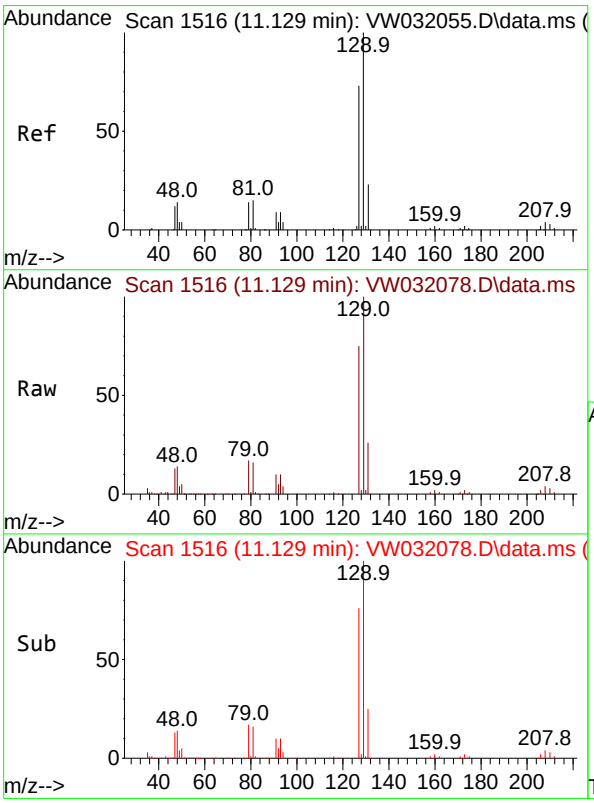

#59
2-Hexanone
Concen: 253.545 ug/l
RT: 10.971 min Scan# 14
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 43 Resp: 404553

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 56.9 | 28.3 | 85.0 |

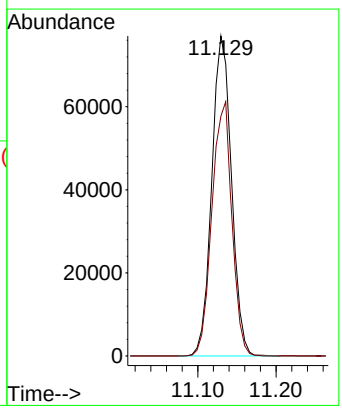


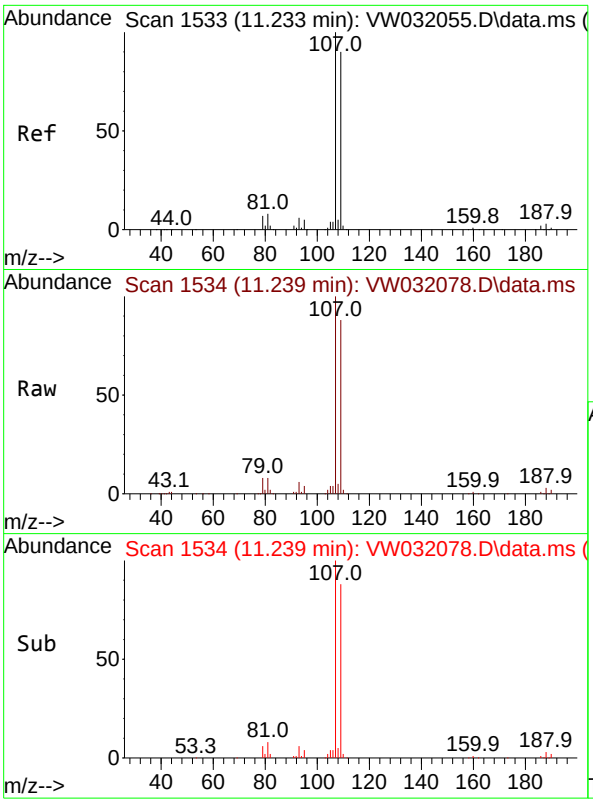




#60
Dibromochloromethane
Concen: 48.560 ug/l
RT: 11.129 min Scan# 1516
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:129 Resp: 134574

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 80.4 | 39.0 | 116.9 |



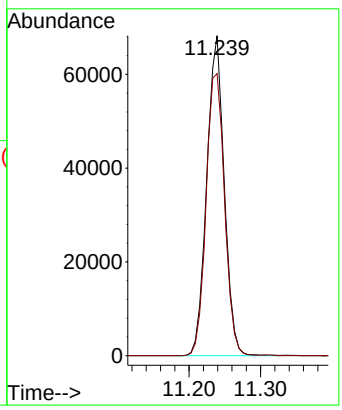


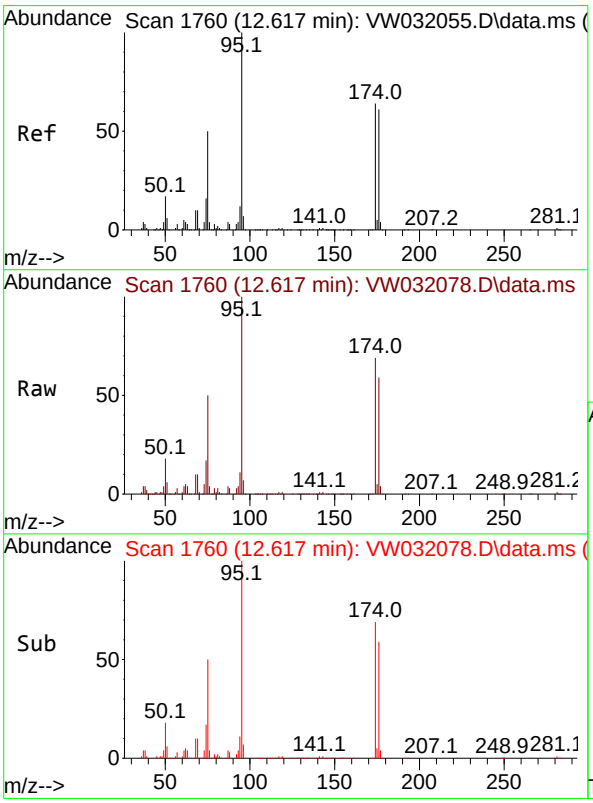

#61
1,2-Dibromoethane
Concen: 49.186 ug/l
RT: 11.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:107 Resp: 115961

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 92.9 | 74.2 | 111.4 |

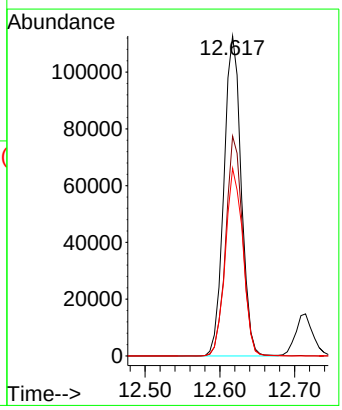


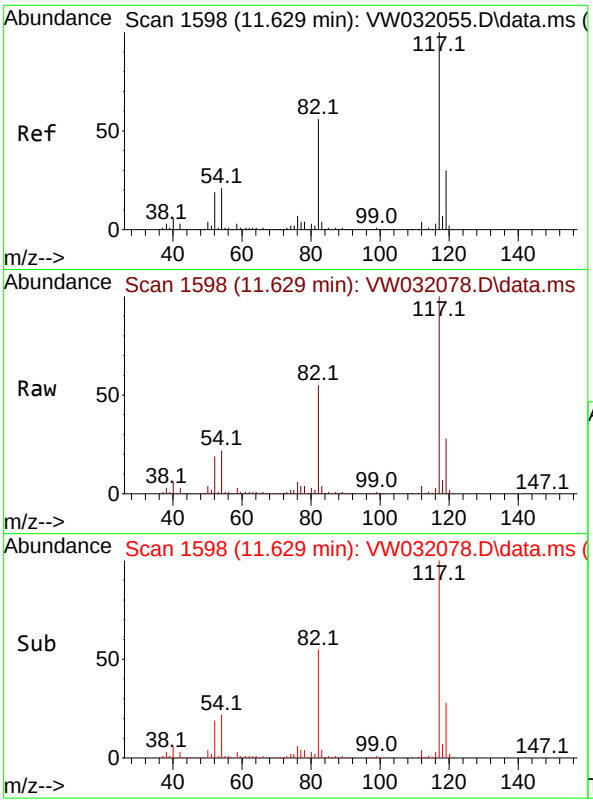




#62
4-Bromofluorobenzene
Concen: 49.666 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 95 Resp: 180889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 66.8 | 0.0 | 129.0 |
| 176 | 59.8 | 0.0 | 124.6 |



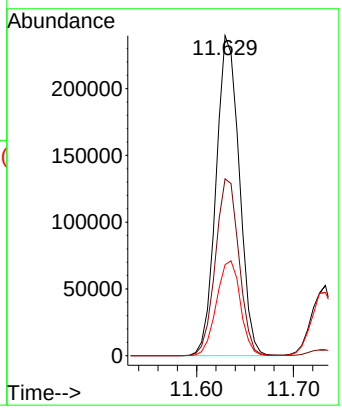


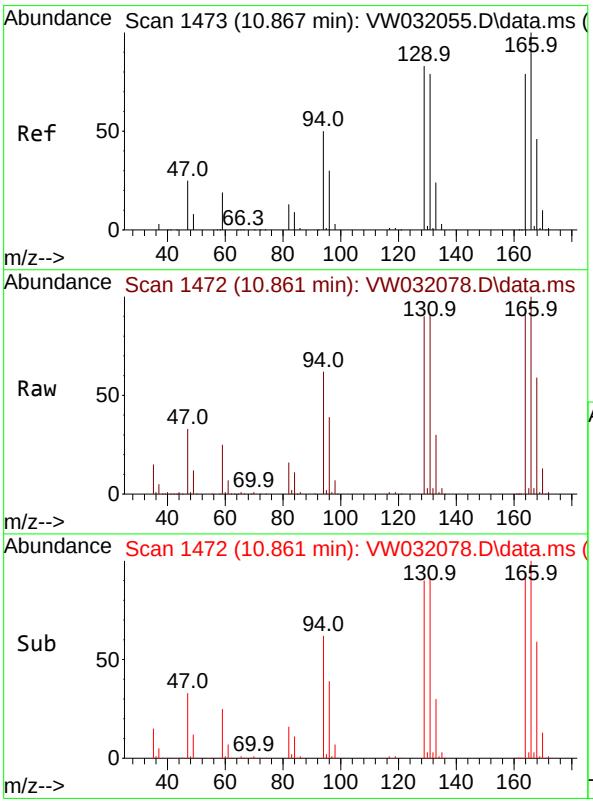

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:117 Resp: 399228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 55.3 | 45.0 | 67.4 |
| 119 | 28.4 | 24.2 | 36.4 |

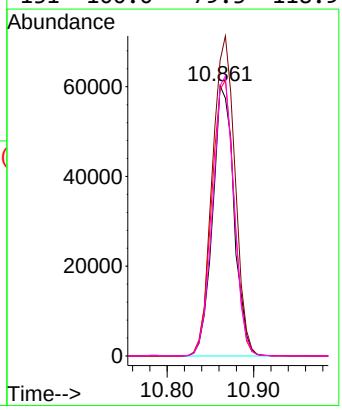


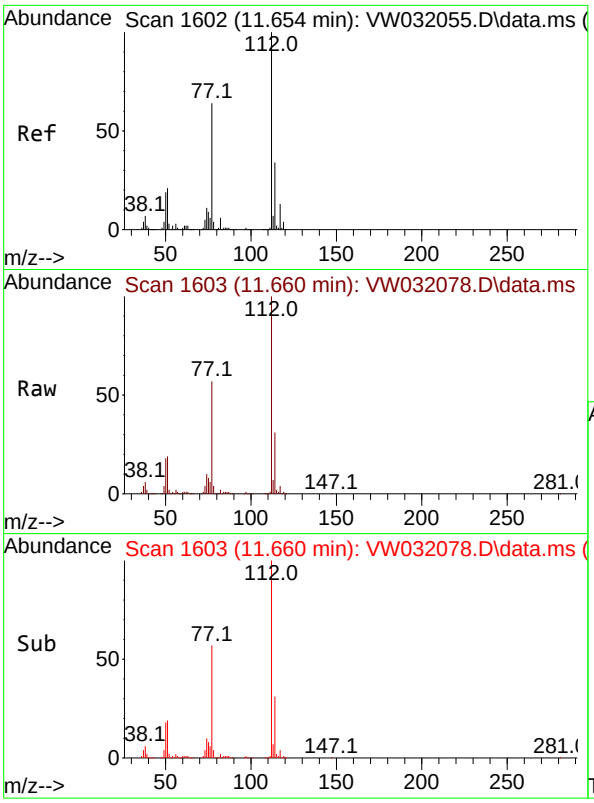




#64
Tetrachloroethene
Concen: 44.767 ug/l
RT: 10.861 min Scan# 1472
Delta R.T. -0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:164 Resp: 103230

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 109.4 | 100.9 | 151.3 |
| 129 | 98.7 | 83.6 | 125.4 |
| 131 | 100.0 | 79.3 | 118.9 |



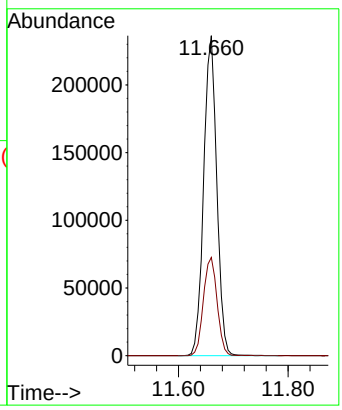


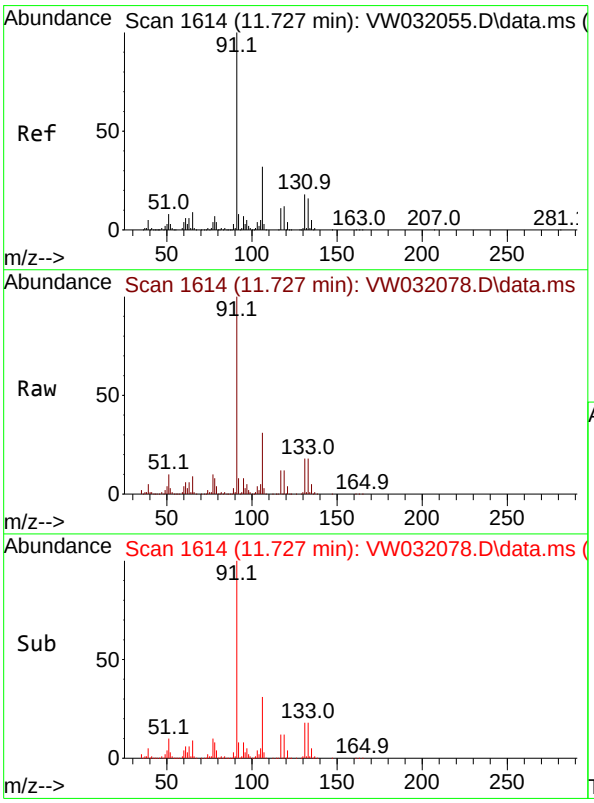

#65
Chlorobenzene
Concen: 44.896 ug/l
RT: 11.660 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:112 Resp: 390137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 30.7 | 26.9 | 40.3 |

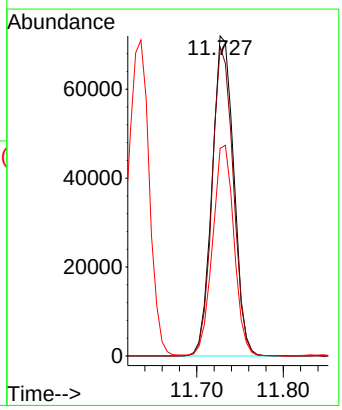


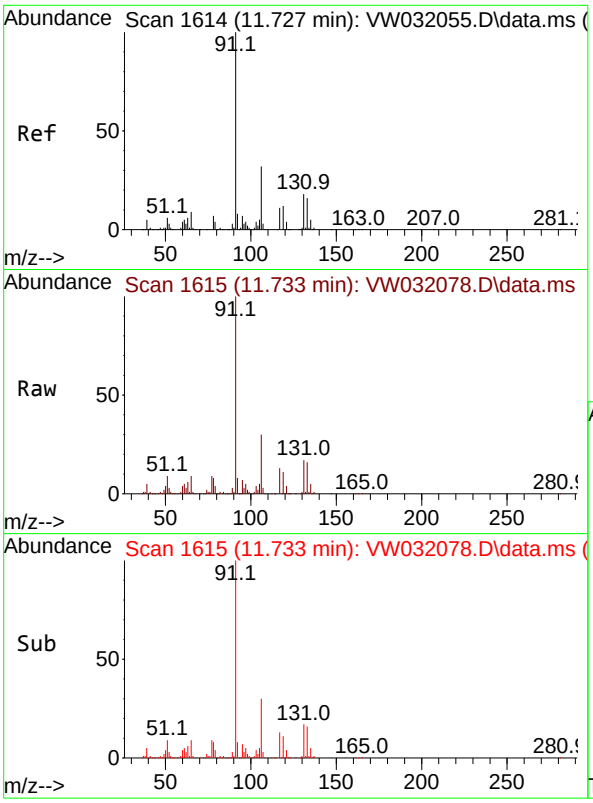




#66
1,1,1,2-Tetrachloroethane
Concen: 46.243 ug/l
RT: 11.727 min Scan# 1614
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:131 Resp: 125374

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.5 | 47.3 | 142.0 |
| 119 | 65.2 | 34.5 | 103.5 |



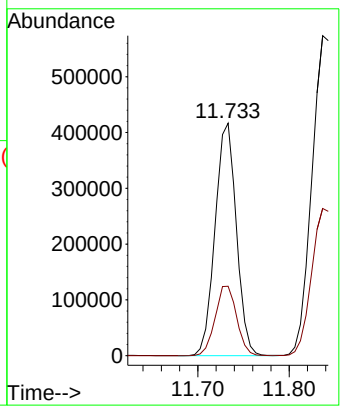


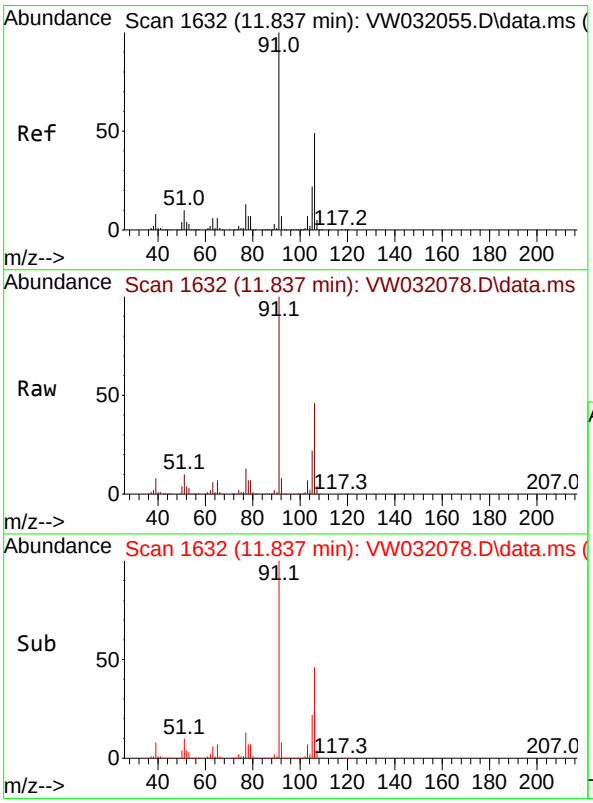

#67
Ethyl Benzene
Concen: 45.839 ug/l
RT: 11.733 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 91 Resp: 674717

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.9 | 25.4 | 38.0 |

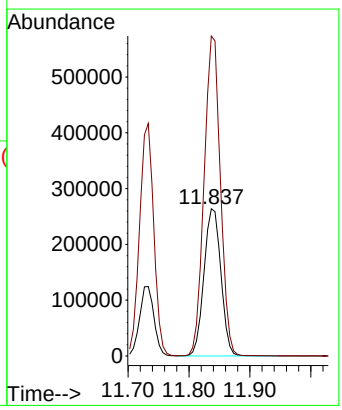


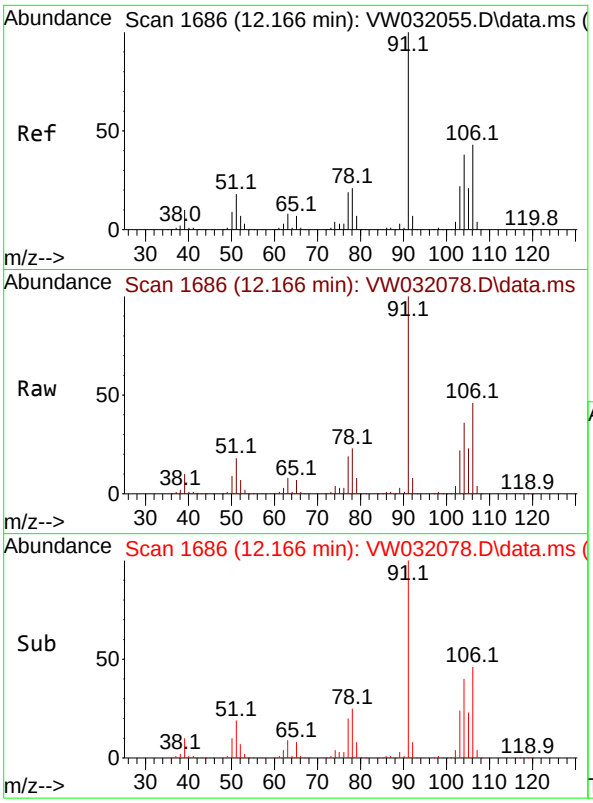




#68
m/p-Xylenes
Concen: 89.674 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:106 Resp: 509322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 209.4 | 162.2 | 243.2 |



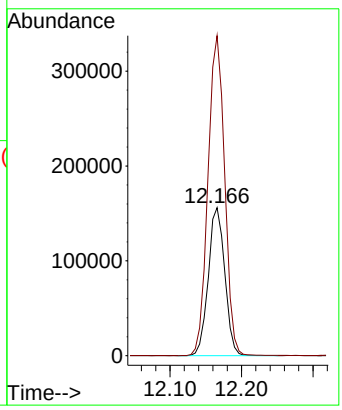


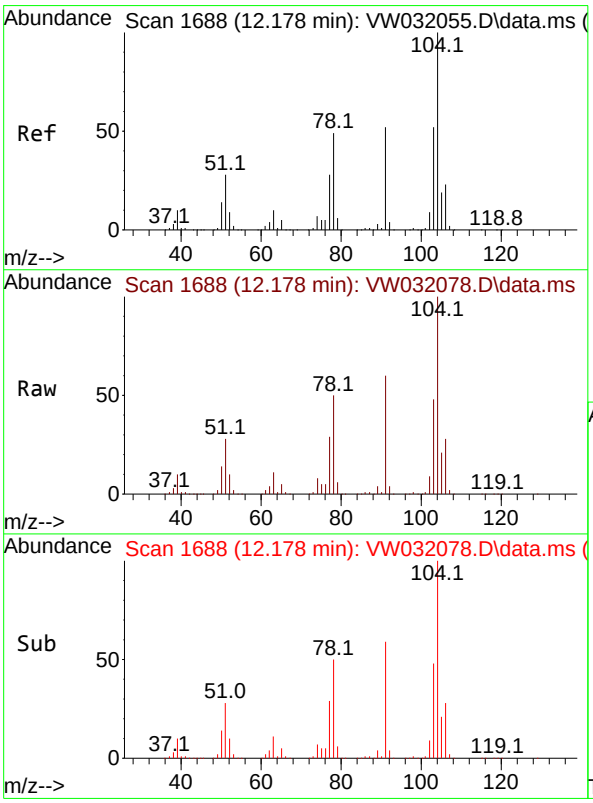

#69
o-Xylene
Concen: 47.586 ug/l
RT: 12.166 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:106 Resp: 249805

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 219.3 | 110.8 | 332.3 |

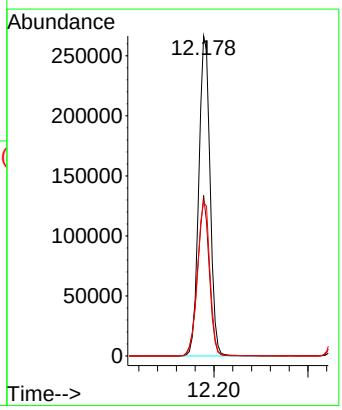


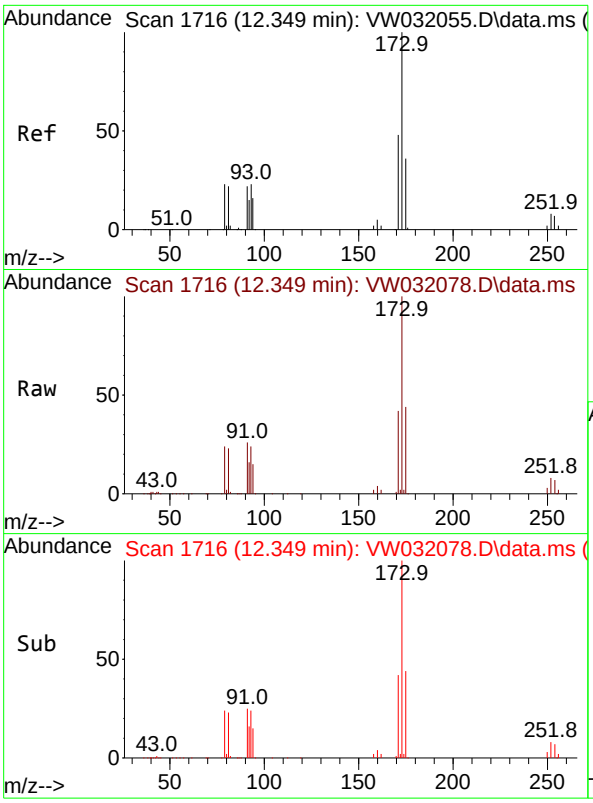




#70
Styrene
Concen: 47.626 ug/l
RT: 12.178 min Scan# 1688
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:104 Resp: 444091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 51.3 | 41.2 | 61.8 |
| 103 | 53.0 | 43.8 | 65.8 |



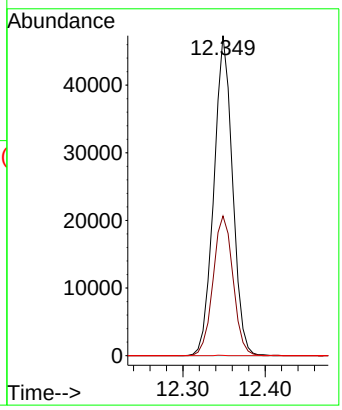


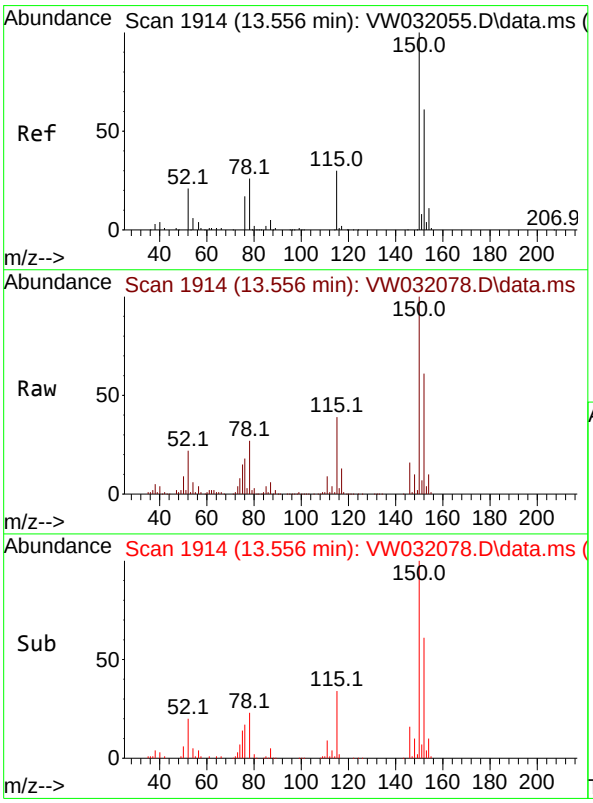

#71
Bromoform
Concen: 48.185 ug/l
RT: 12.349 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:173 Resp: 74729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 46.6 | 22.9 | 68.7 |
| 254 | 0.1 | 0.0 | 0.0# |

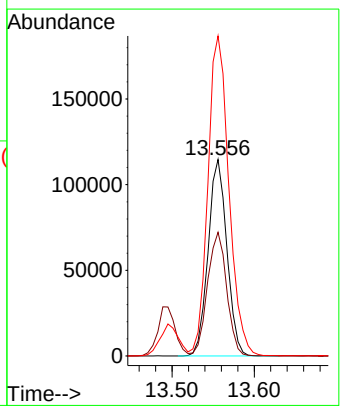


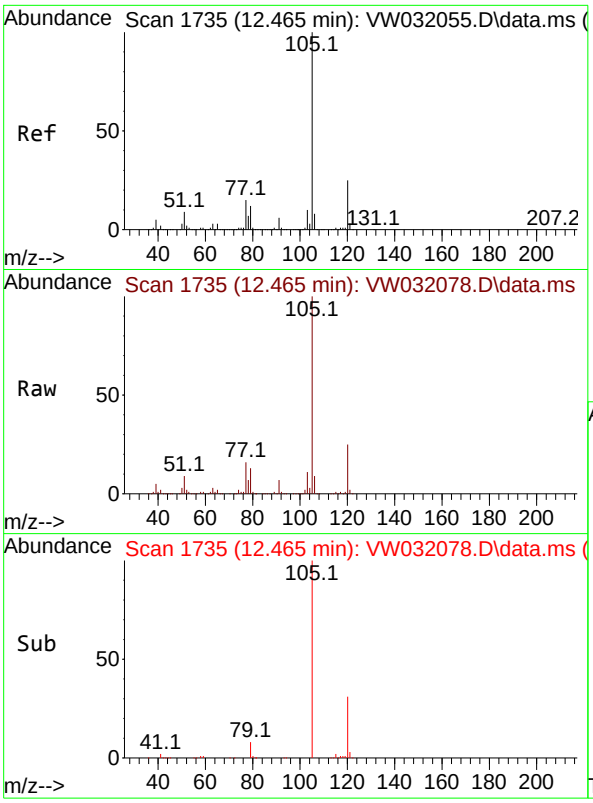




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:152 Resp: 181926

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 64.3 | 32.6 | 97.8 |
| 150 | 182.0 | 0.0 | 359.4 |



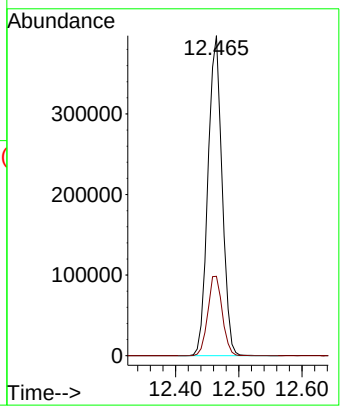


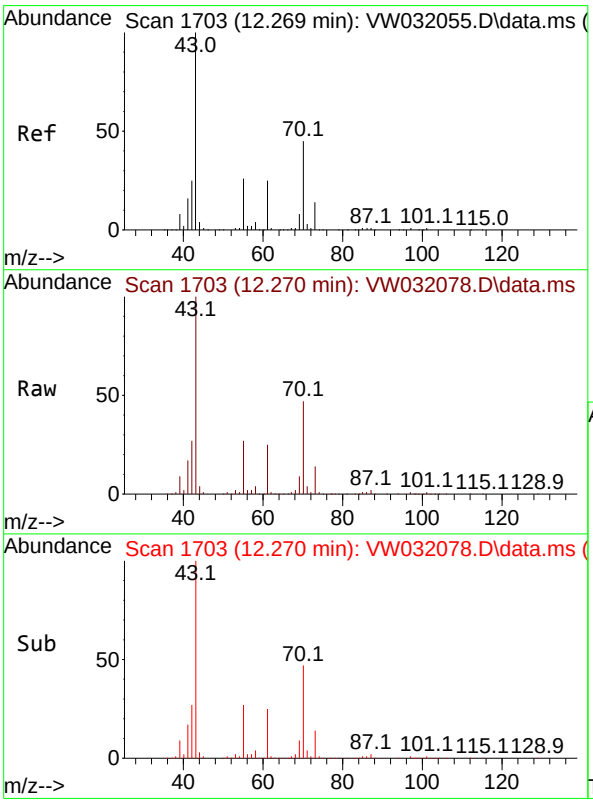

#73
Isopropylbenzene
Concen: 48.421 ug/l
RT: 12.465 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:105 Resp: 615630

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.5 | 12.8 | 38.4 |

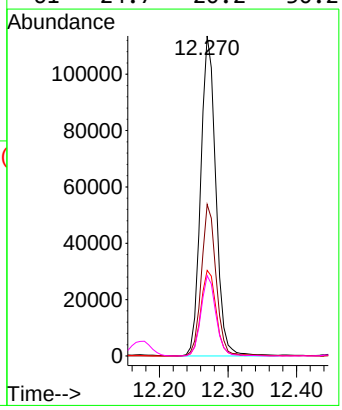


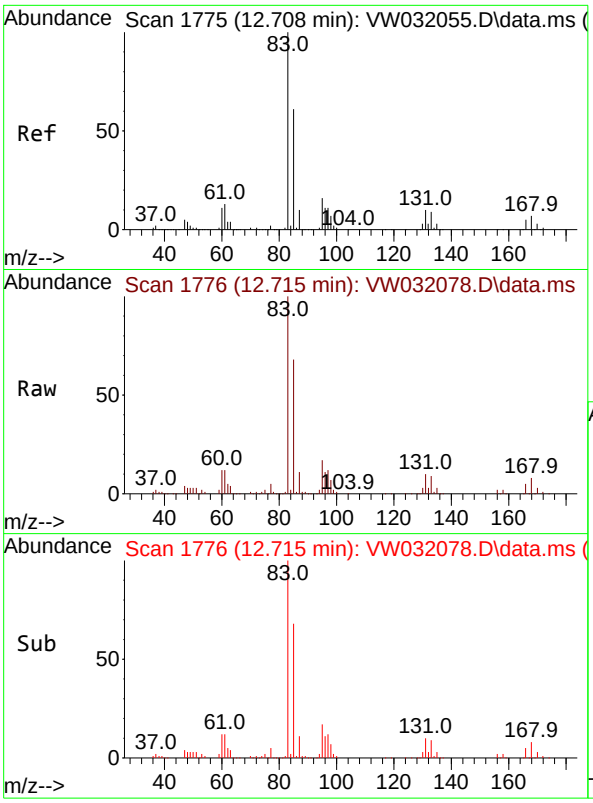




#74
N-amyl acetate
Concen: 47.933 ug/l
RT: 12.270 min Scan# 1703
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 43 Resp: 174844

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 45.6 | 37.0 | 55.4 |
| 55 | 27.2 | 21.1 | 31.7 |
| 61 | 24.7 | 20.2 | 30.2 |



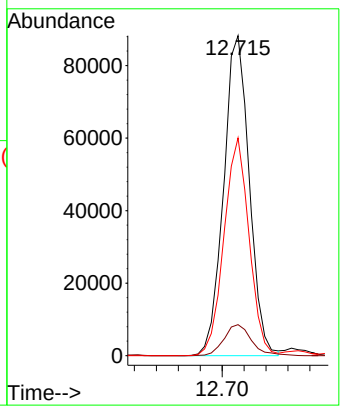


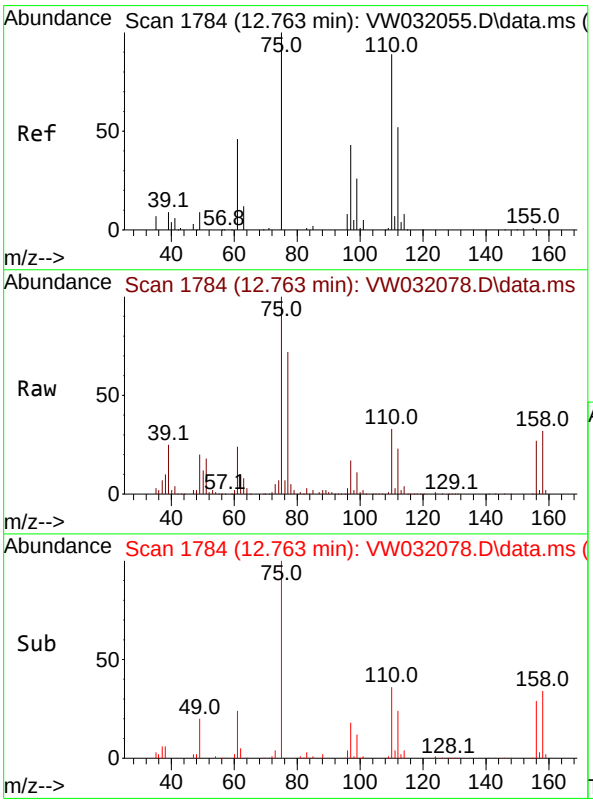

#75
1,1,2,2-Tetrachloroethane
Concen: 47.484 ug/l
RT: 12.715 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 83 Resp: 143342

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.4 | 5.1 | 15.4 |
| 85 | 66.6 | 32.2 | 96.6 |

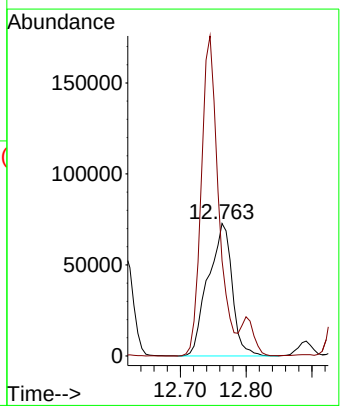


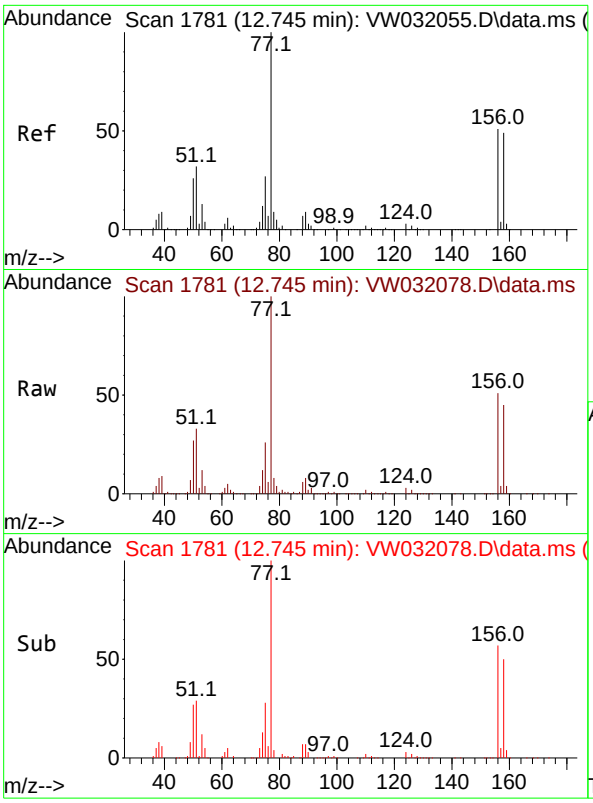




#76
1,2,3-Trichloropropane
Concen: 74.907 ug/l
RT: 12.763 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 75 Resp: 184957

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 174.8 | 123.5 | 370.5 |



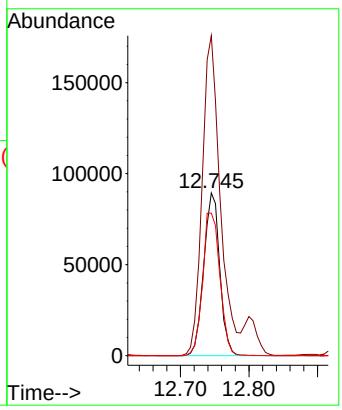


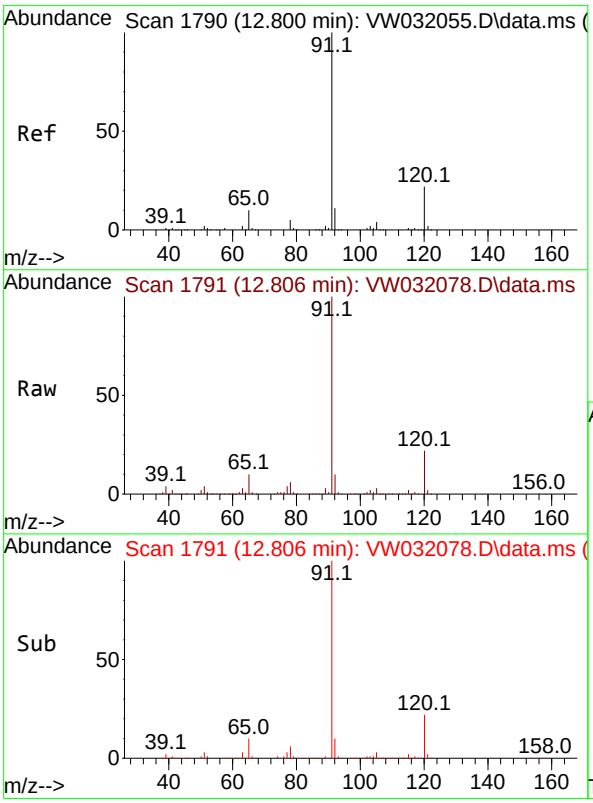

#77
Bromobenzene
Concen: 47.865 ug/l
RT: 12.745 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:156 Resp: 145348

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 222.4 | 108.7 | 326.3 |
| 158 | 94.8 | 48.3 | 144.9 |

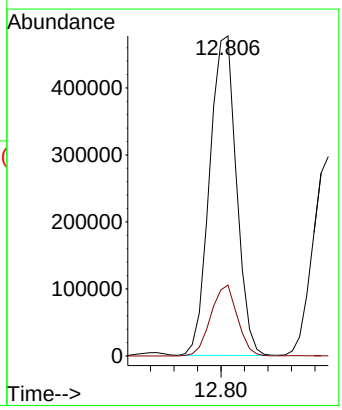


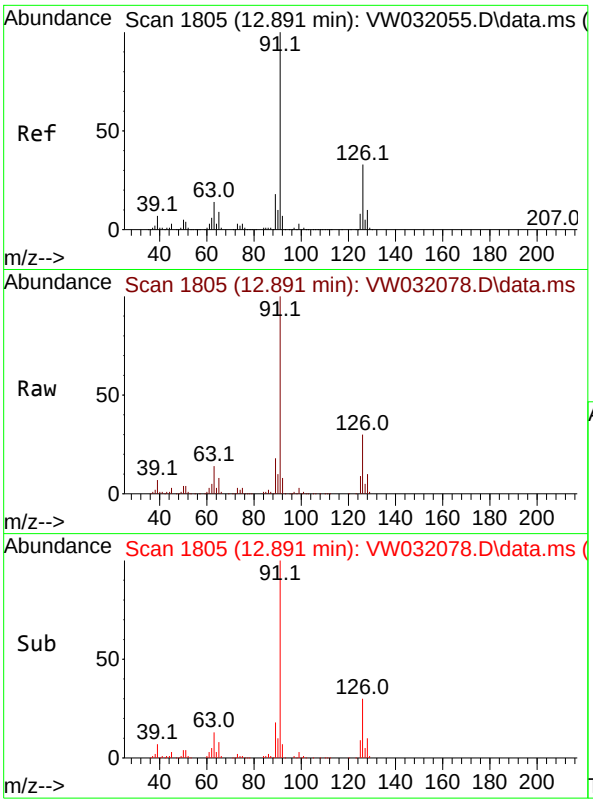




#78
n-propylbenzene
Concen: 48.311 ug/l
RT: 12.806 min Scan# 1791
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 91 Resp: 756214

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.0 | 11.1 | 33.3 |



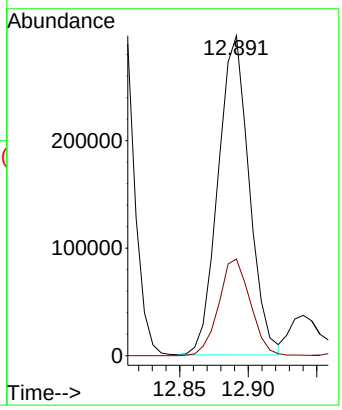


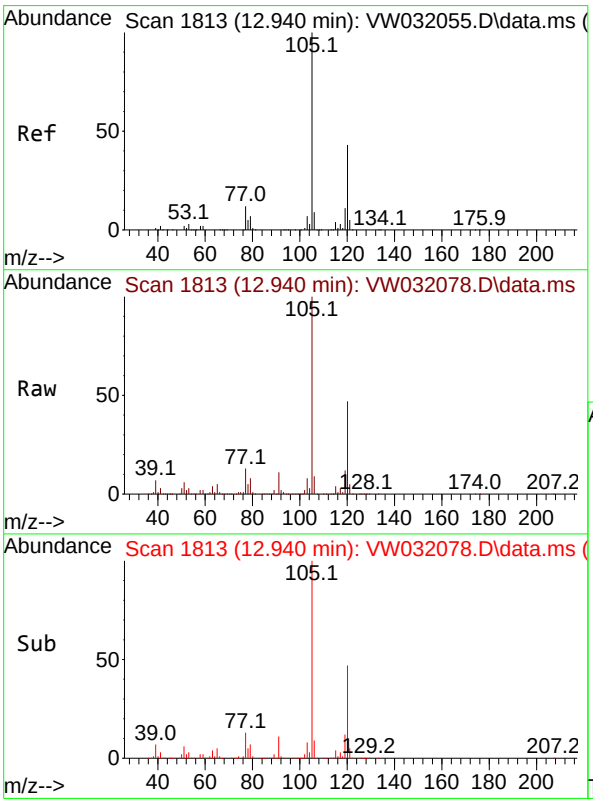

#79
2-Chlorotoluene
Concen: 48.578 ug/l
RT: 12.891 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 91 Resp: 469293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 30.8 | 15.9 | 47.7 |

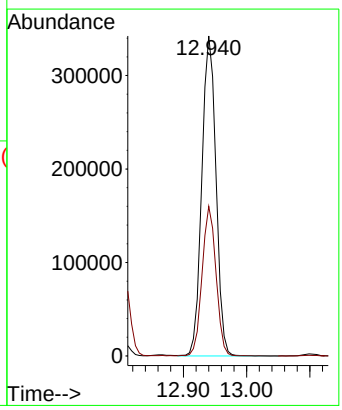


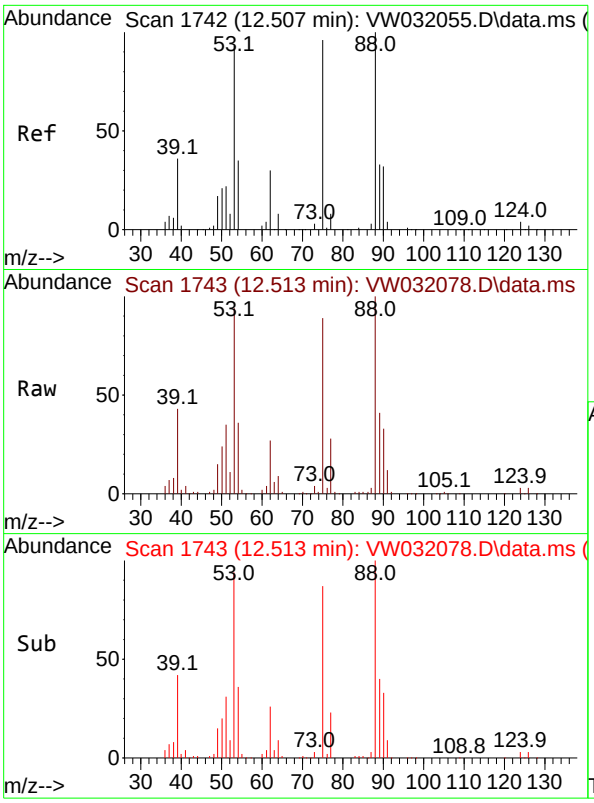




#80
1,3,5-Trimethylbenzene
Concen: 49.484 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:105 Resp: 534122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.9 | 23.4 | 70.0 |



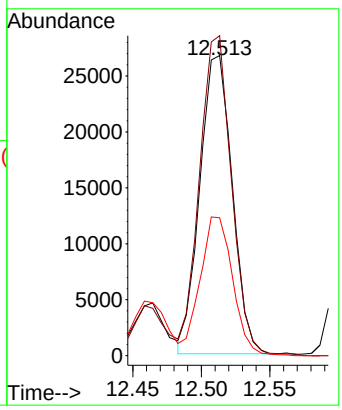


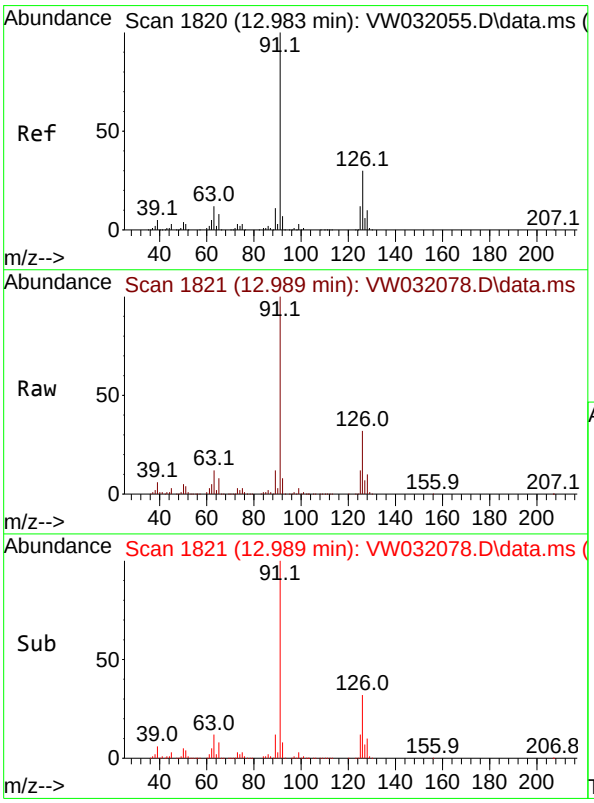

#81
trans-1,4-Dichloro-2-butene
Concen: 46.037 ug/l
RT: 12.513 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 75 Resp: 43908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 106.1 | 81.0 | 121.6 |
| 89 | 46.9 | 37.3 | 55.9 |

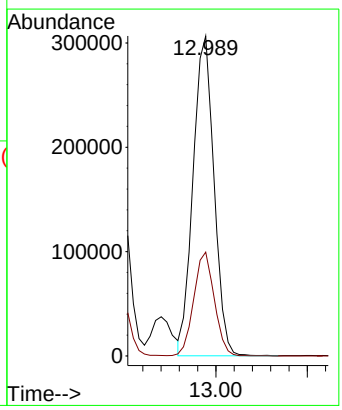


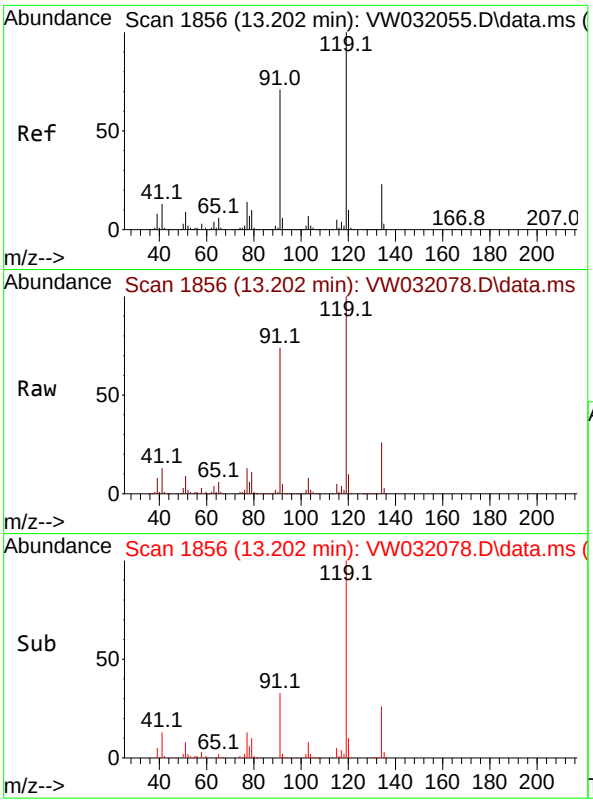




#82
4-Chlorotoluene
Concen: 47.464 ug/l
RT: 12.989 min Scan# 1821
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 91 Resp: 487171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.0 | 15.5 | 46.5 |



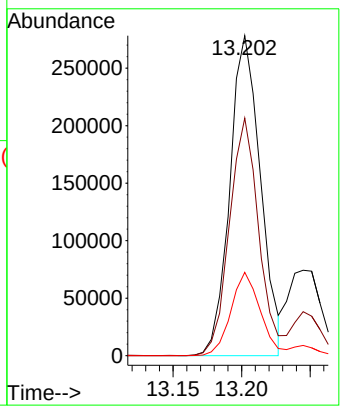


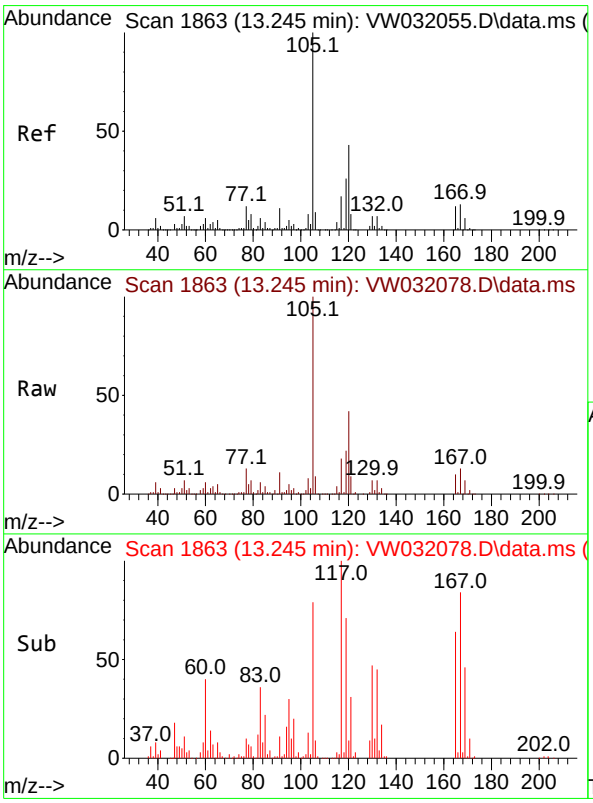

#83
tert-Butylbenzene
Concen: 48.424 ug/l
RT: 13.202 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:119 Resp: 433786

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 70.4 | 35.3 | 105.9 |
| 134 | 25.1 | 12.1 | 36.3 |

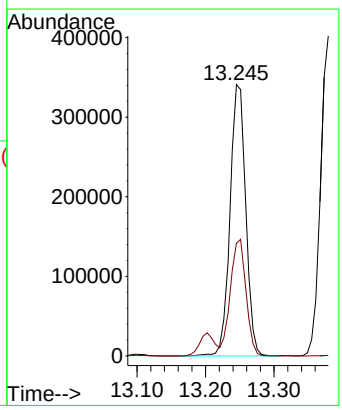


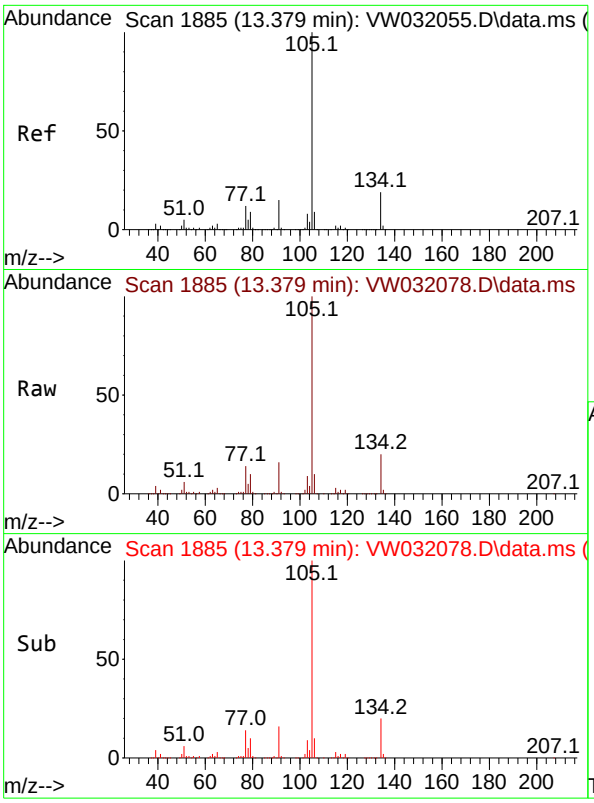




#84
1,2,4-Trimethylbenzene
Concen: 49.477 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:105 Resp: 543640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 42.9 | 21.6 | 64.8 |



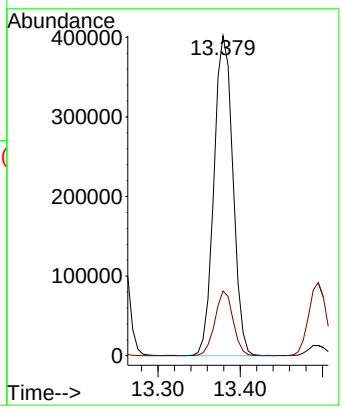


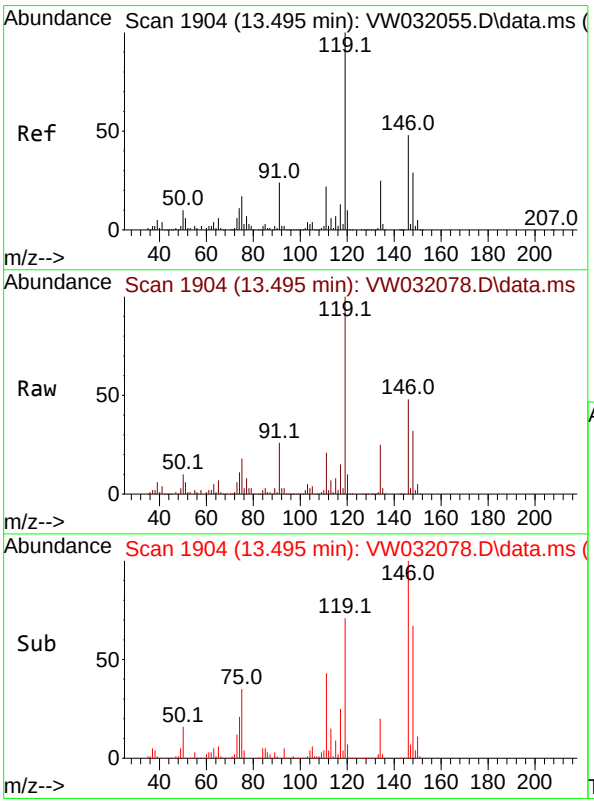

#85
sec-Butylbenzene
Concen: 47.482 ug/l
RT: 13.379 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:105 Resp: 643083

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.4 | 9.9 | 29.7 |

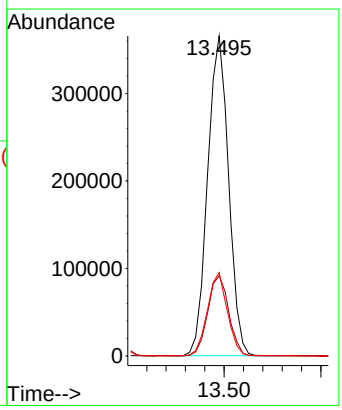


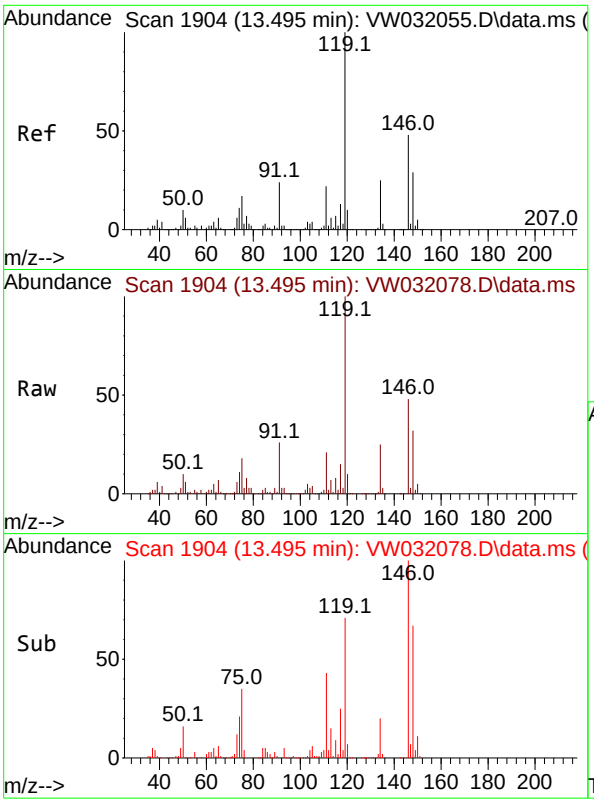




#86
p-Isopropyltoluene
Concen: 48.708 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:119 Resp: 549955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.3 | 12.4 | 37.0 |
| 91 | 24.7 | 12.1 | 36.3 |



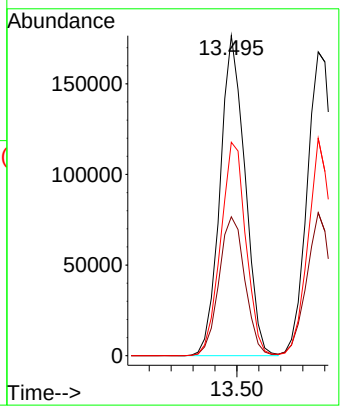


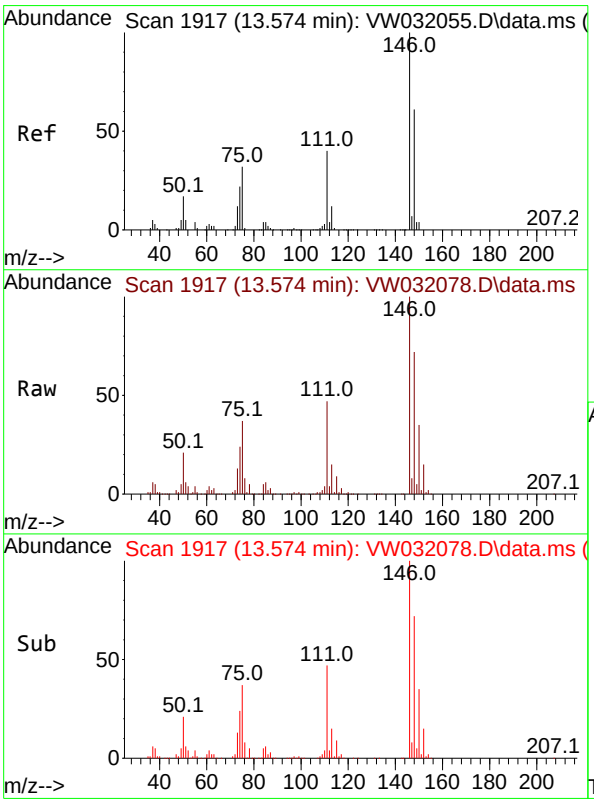

#87
1,3-Dichlorobenzene
Concen: 46.057 ug/l
RT: 13.495 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:146 Resp: 278295

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.3 | 21.2 | 63.6 |
| 148 | 67.7 | 30.3 | 90.8 |

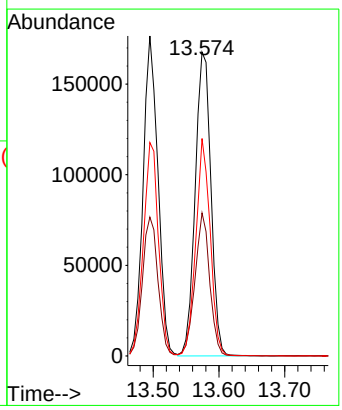


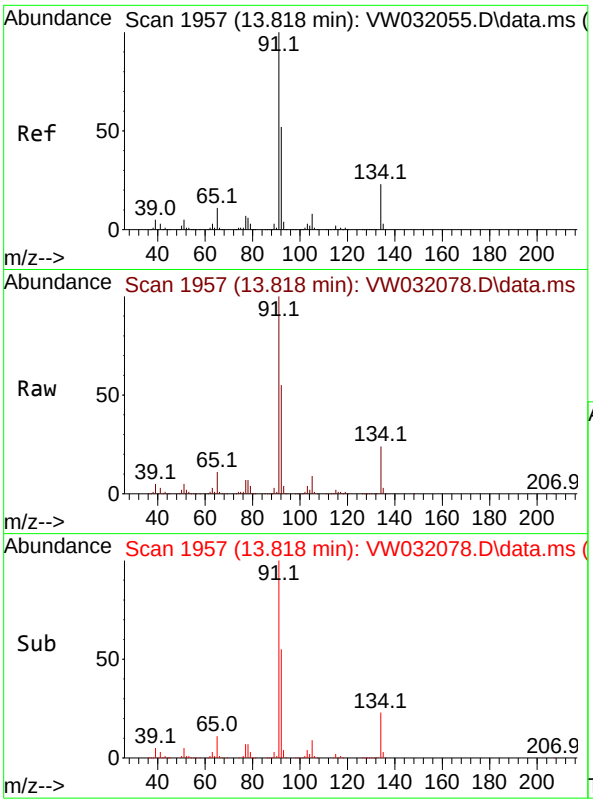




#88
1,4-Dichlorobenzene
Concen: 45.431 ug/l
RT: 13.574 min Scan# 1917
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:146 Resp: 277410

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.5 | 21.6 | 64.6 |
| 148 | 65.6 | 32.0 | 96.2 |



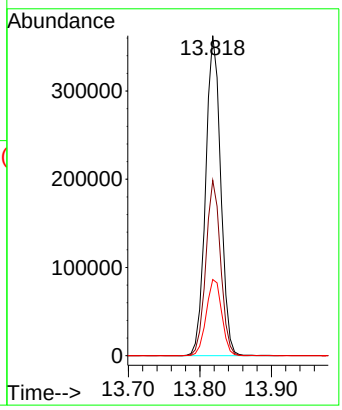


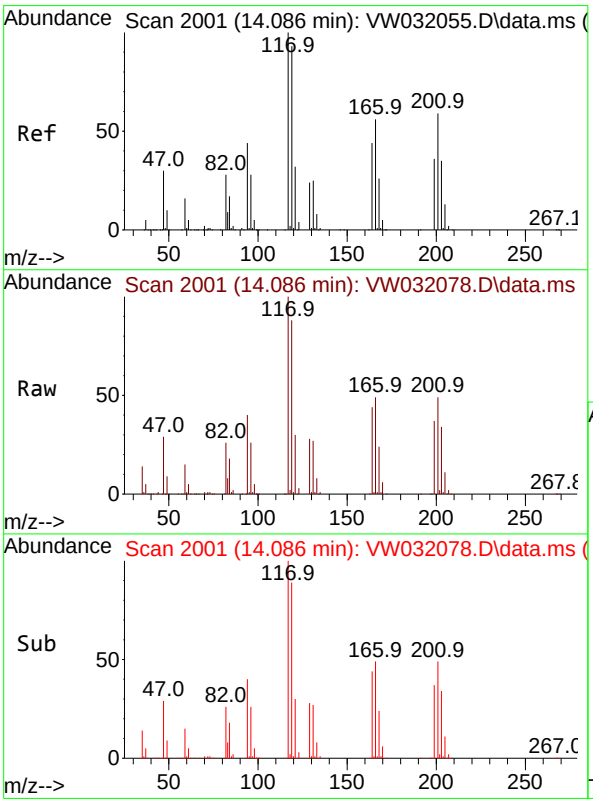

#89
n-Butylbenzene
Concen: 48.414 ug/l
RT: 13.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 91 Resp: 531065

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.6 | 26.7 | 80.1 |
| 134 | 24.5 | 12.0 | 36.1 |

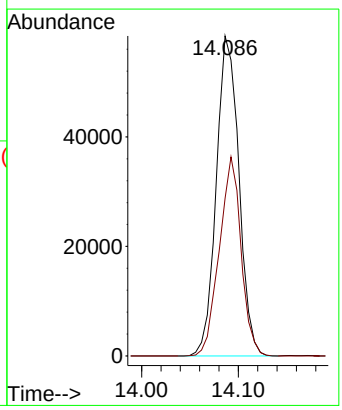


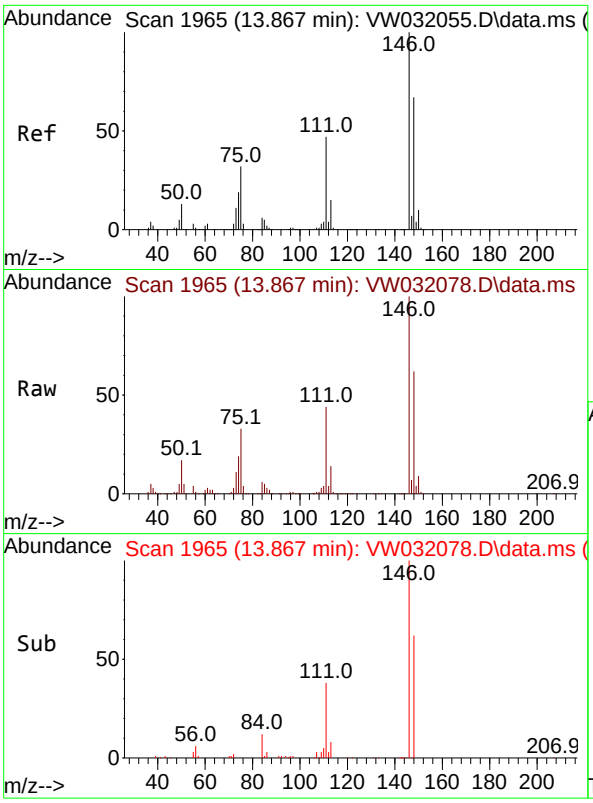




#90
Hexachloroethane
Concen: 45.779 ug/l
RT: 14.086 min Scan# 2001
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:117 Resp: 94529

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 60.0 | 30.9 | 92.5 |



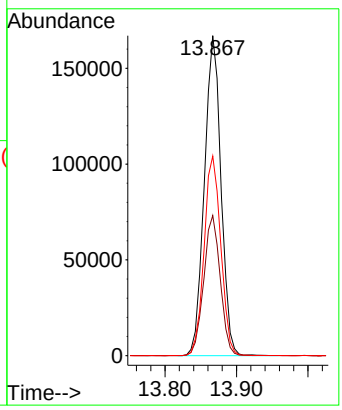


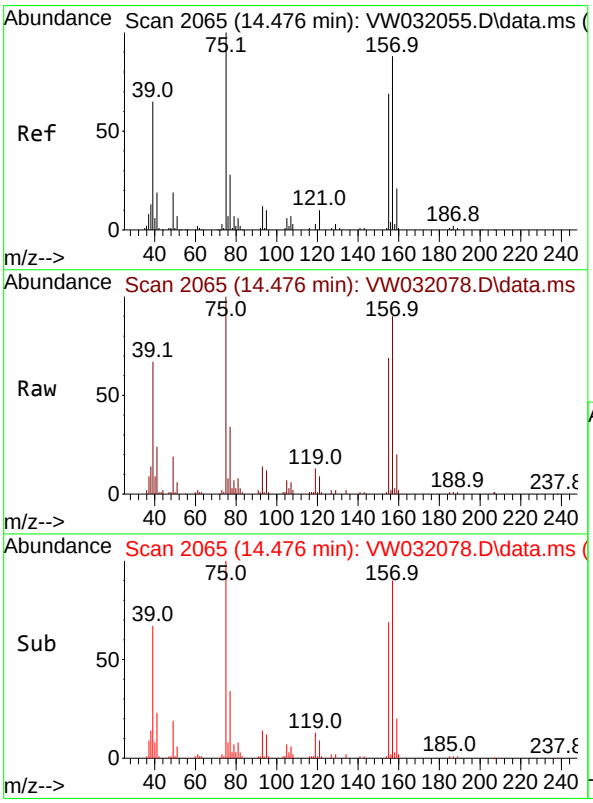

#91
1,2-Dichlorobenzene
Concen: 49.256 ug/l
RT: 13.867 min Scan# 1
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:146 Resp: 269607

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.6 | 23.1 | 69.3 |
| 148 | 62.7 | 32.9 | 98.6 |

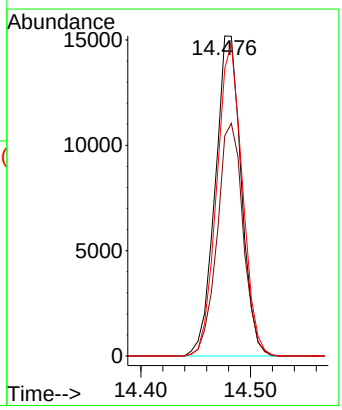


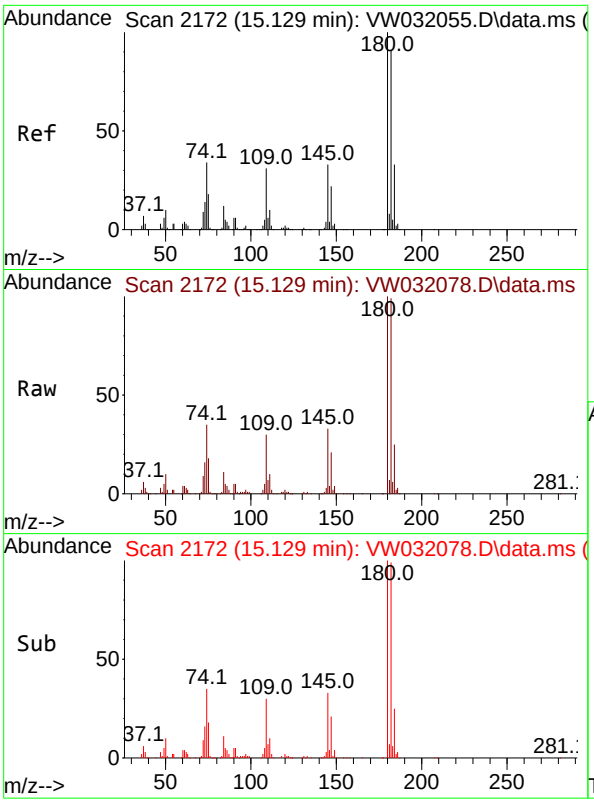




#92
1,2-Dibromo-3-Chloropropane
Concen: 46.732 ug/l
RT: 14.476 min Scan# 2065
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion: 75 Resp: 25079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 72.5 | 35.2 | 105.6 |
| 157 | 95.7 | 47.5 | 142.6 |



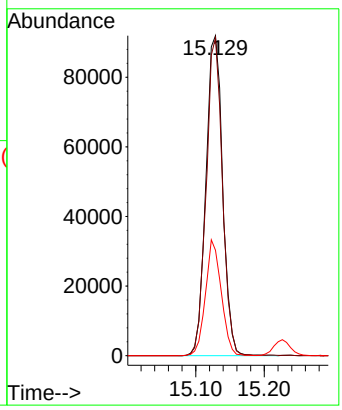


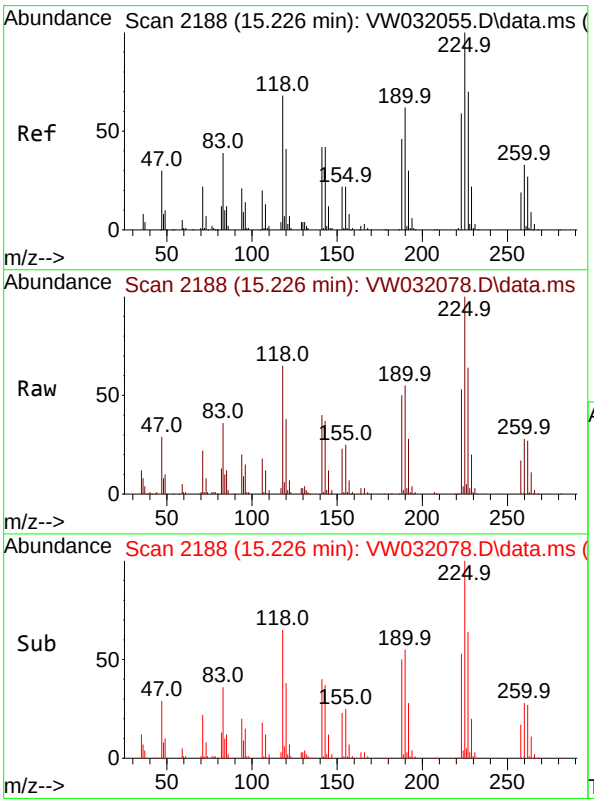

#93
1,2,4-Trichlorobenzene
Concen: 47.562 ug/l
RT: 15.129 min Scan# 21
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:180 Resp: 155733

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.6 | 49.0 | 147.0 |
| 145 | 34.4 | 17.3 | 51.9 |

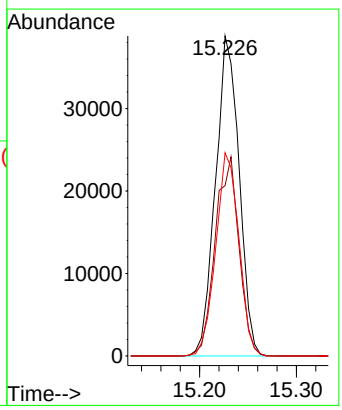


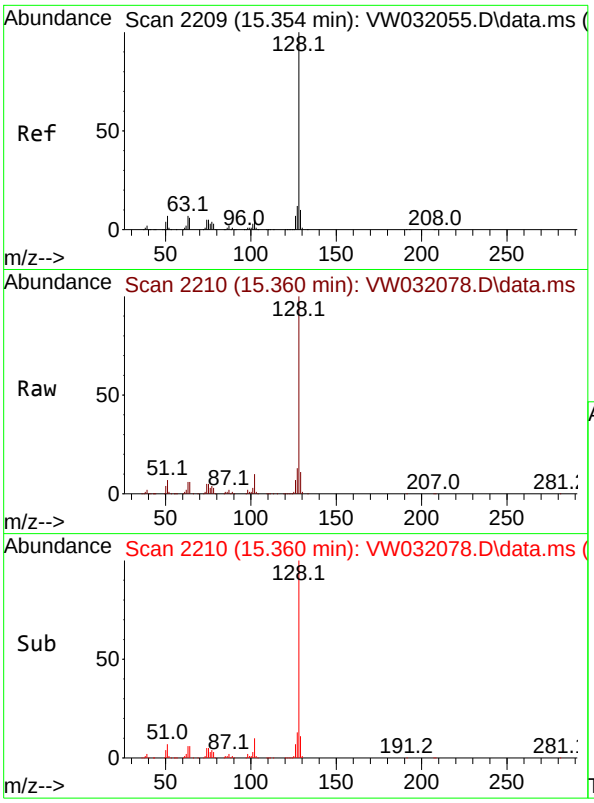




#94
Hexachlorobutadiene
Concen: 44.879 ug/l
RT: 15.226 min Scan# 2188
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:225 Resp: 65688

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.5 | 31.8 | 95.3 |
| 227 | 62.4 | 33.5 | 100.5 |



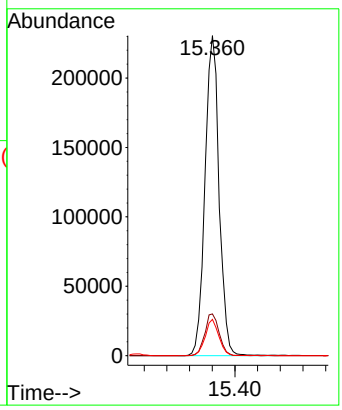


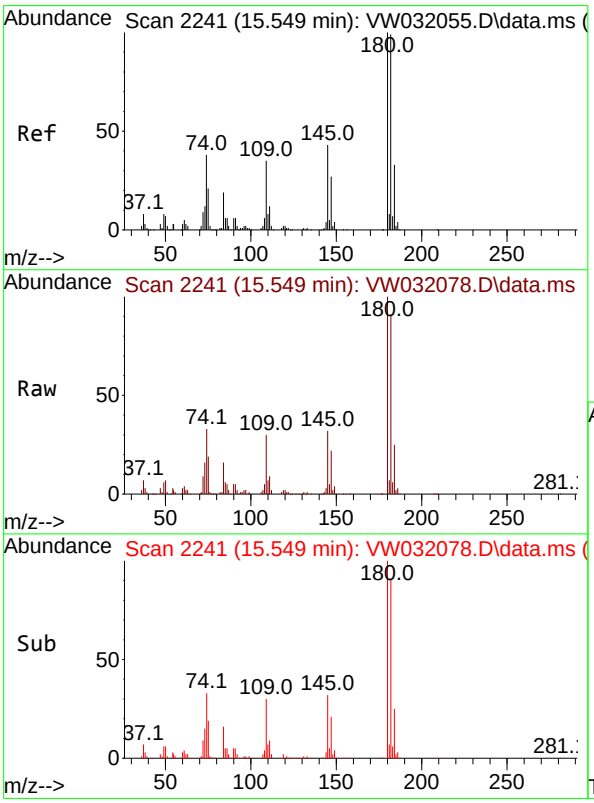

#95
Naphthalene
Concen: 49.535 ug/l
RT: 15.360 min Scan# 2
Delta R.T. 0.006 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

**Instrument :**
MSVOA_W
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:128 Resp: 397425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.4 | 10.5 | 15.7 |
| 129 | 11.0 | 8.2 | 12.4 |

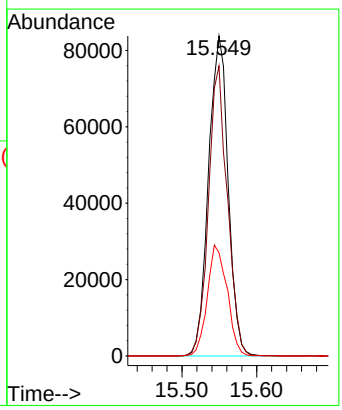



#96
1,2,3-Trichlorobenzene
Concen: 51.327 ug/l
RT: 15.549 min Scan# 2241
Delta R.T. 0.000 min
Lab File: VW032078.D
Acq: 11 Aug 2025 19:31

Tgt Ion:180 Resp: 152914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 87.3 | 46.0 | 138.0 |
| 145 | 35.1 | 19.2 | 57.6 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023050.D
Acq On : 12 Aug 2025 14:54
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Quant Time: Aug 13 01:50:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 561390 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 8.610 | 114 | 904866 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 759914 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 360397 | 50.000 | ug/l | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.055 | 65 | 27563 | 5.152 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 10.300%# | | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 26265 | 4.851 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 9.700%# | | | | |
| 50) Toluene-d8 | 10.103 | 98 | 104144 | 4.924 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 9.840%# | | | | |
| 62) 4-Bromofluorobenzene | 12.402 | 95 | 32420 | 4.766 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 9.540%# | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.861 | 85 | 27351 | 5.969 | ug/l | | 96 |
| 3) Chloromethane | 2.068 | 50 | 39269 | 5.291 | ug/l | | 98 |
| 4) Vinyl Chloride | 2.202 | 62 | 48736 | 5.312 | ug/l | | 99 |
| 5) Bromomethane | 2.592 | 94 | 37773 | 5.513 | ug/l | | 97 |
| 6) Chloroethane | 2.732 | 64 | 32816 | 5.380 | ug/l | | 98 |
| 7) Trichlorofluoromethane | 3.050 | 101 | 59438 | 5.328 | ug/l | | 99 |
| 8) Diethyl Ether | 3.452 | 74 | 15231 | 5.160 | ug/l | | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 3.812 | 101 | 29291 | 5.322 | ug/l | | 98 |
| 10) Methyl Iodide | 3.994 | 142 | 26272 | 4.424 | ug/l | | 98 |
| 11) Tert butyl alcohol | 4.866 | 59 | 9219 | 25.147 | ug/l | # | 92 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 27635 | 5.108 | ug/l | | 87 |
| 13) Acrolein | 3.647 | 56 | 13391 | 24.941 | ug/l | | 95 |
| 14) Allyl chloride | 4.372 | 41 | 41201 | 5.176 | ug/l | | 94 |
| 15) Acrylonitrile | 5.061 | 53 | 28255 | 23.547 | ug/l | | 95 |
| 16) Acetone | 3.866 | 43 | 30803 | 26.574 | ug/l | | 98 |
| 17) Carbon Disulfide | 4.098 | 76 | 92964 | 5.270 | ug/l | | 96 |
| 18) Methyl Acetate | 4.379 | 43 | 16806 | 4.872 | ug/l | | 99 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 66308 | 4.730 | ug/l | | 98 |
| 20) Methylene Chloride | 4.604 | 84 | 48322 | 5.657 | ug/l | | 97 |
| 21) trans-1,2-Dichloroethene | 5.110 | 96 | 30021 | 4.938 | ug/l | | 97 |
| 22) Diisopropyl ether | 6.012 | 45 | 80938 | 4.679 | ug/l | | 91 |
| 23) Vinyl Acetate | 5.958 | 43 | 221862 | 23.196 | ug/l | | 97 |
| 24) 1,1-Dichloroethane | 5.909 | 63 | 52152 | 4.931 | ug/l | | 99 |
| 25) 2-Butanone | 6.890 | 43 | 37821 | 23.991 | ug/l | | 97 |
| 26) 2,2-Dichloropropane | 6.878 | 77 | 46964 | 5.147 | ug/l | | 99 |
| 27) cis-1,2-Dichloroethene | 6.884 | 96 | 34877 | 4.962 | ug/l | | 97 |
| 28) Bromochloromethane | 7.238 | 49 | 20615 | 4.913 | ug/l | | 96 |
| 29) Tetrahydrofuran | 7.256 | 42 | 23487 | 24.035 | ug/l | | 96 |
| 30) Chloroform | 7.415 | 83 | 54392 | 4.987 | ug/l | | 96 |
| 31) Cyclohexane | 7.701 | 56 | 58362 | 5.856 | ug/l | # | 83 |
| 32) 1,1,1-Trichloroethane | 7.610 | 97 | 48413 | 5.003 | ug/l | | 99 |
| 36) 1,1-Dichloropropene | 7.829 | 75 | 39978 | 4.968 | ug/l | | 99 |
| 37) Ethyl Acetate | 6.982 | 43 | 15080 | 4.461 | ug/l | # | 95 |
| 38) Carbon Tetrachloride | 7.811 | 117 | 44360 | 5.076 | ug/l | | 99 |
| 39) Methylcyclohexane | 9.103 | 83 | 51931 | 4.901 | ug/l | | 99 |
| 40) Benzene | 8.073 | 78 | 122482 | 4.939 | ug/l | | 99 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023050.D
Acq On : 12 Aug 2025 14:54
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Quant Time: Aug 13 01:50:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.213 | 41 | 6006 | 3.075 ug/l # | 56 |
| 42) 1,2-Dichloroethane | 8.152 | 62 | 31902 | 4.946 ug/l | 98 |
| 43) Isopropyl Acetate | 8.195 | 43 | 31890 | 4.668 ug/l | 100 |
| 44) Trichloroethene | 8.859 | 130 | 32050 | 5.001 ug/l | 93 |
| 45) 1,2-Dichloropropane | 9.134 | 63 | 27418 | 4.805 ug/l | 93 |
| 46) Dibromomethane | 9.225 | 93 | 15033 | 4.590 ug/l | 97 |
| 47) Bromodichloromethane | 9.420 | 83 | 40327 | 4.785 ug/l | 98 |
| 48) Methyl methacrylate | 9.219 | 41 | 13477 | 4.122 ug/l | 90 |
| 49) 1,4-Dioxane | 9.231 | 88 | 3454 | 89.939 ug/l # | 91 |
| 51) 4-Methyl-2-Pentanone | 9.993 | 43 | 75891 | 21.535 ug/l | 100 |
| 52) Toluene | 10.164 | 92 | 73910 | 4.692 ug/l | 100 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 34154 | 4.475 ug/l | 99 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 41326 | 4.579 ug/l | 97 |
| 55) 1,1,2-Trichloroethane | 10.566 | 97 | 20795 | 4.745 ug/l | 98 |
| 56) Ethyl methacrylate | 10.432 | 69 | 22376 | 3.990 ug/l | 99 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 34835 | 4.687 ug/l | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 51585 | 19.500 ug/l | 100 |
| 59) 2-Hexanone | 10.755 | 43 | 50604 | 21.088 ug/l | 97 |
| 60) Dibromochloromethane | 10.908 | 129 | 27141 | 4.693 ug/l | 100 |
| 61) 1,2-Dibromoethane | 11.012 | 107 | 18652 | 4.528 ug/l | 97 |
| 64) Tetrachloroethene | 10.640 | 164 | 36210 | 5.336 ug/l | 97 |
| 65) Chlorobenzene | 11.438 | 112 | 80684 | 4.922 ug/l | 93 |
| 66) 1,1,1,2-Tetrachloroethane | 11.511 | 131 | 26397 | 4.745 ug/l | 94 |
| 67) Ethyl Benzene | 11.511 | 91 | 134854 | 4.781 ug/l | 99 |
| 68) m/p-Xylenes | 11.621 | 106 | 102783 | 9.329 ug/l | 97 |
| 69) o-Xylene | 11.950 | 106 | 45944 | 4.453 ug/l | 94 |
| 70) Styrene | 11.963 | 104 | 71801 | 4.255 ug/l | 97 |
| 71) Bromoform | 12.127 | 173 | 14954 | 4.599 ug/l # | 94 |
| 73) Isopropylbenzene | 12.249 | 105 | 123246 | 4.845 ug/l | 99 |
| 74) N-amyl acetate | 12.066 | 43 | 22829 | 4.232 ug/l | 96 |
| 75) 1,1,2,2-Tetrachloroethane | 12.499 | 83 | 21057 | 4.848 ug/l | 98 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 28374 | 8.152 ug/l # | 100 |
| 77) Bromobenzene | 12.530 | 156 | 29681 | 4.891 ug/l | 100 |
| 78) n-propylbenzene | 12.590 | 91 | 146043 | 4.822 ug/l | 99 |
| 79) 2-Chlorotoluene | 12.670 | 91 | 84671 | 4.880 ug/l | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.731 | 105 | 96308 | 4.685 ug/l | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.298 | 75 | 6514 | 4.533 ug/l | 89 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 87454 | 4.859 ug/l | 99 |
| 83) tert-Butylbenzene | 12.993 | 119 | 87496 | 4.712 ug/l | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.036 | 105 | 93551 | 4.571 ug/l | 100 |
| 85) sec-Butylbenzene | 13.170 | 105 | 131079 | 4.806 ug/l | 99 |
| 86) p-Isopropyltoluene | 13.285 | 119 | 103731 | 4.582 ug/l | 99 |
| 87) 1,3-Dichlorobenzene | 13.279 | 146 | 57668 | 4.819 ug/l | 99 |
| 88) 1,4-Dichlorobenzene | 13.359 | 146 | 60781 | 5.120 ug/l | 97 |
| 89) n-Butylbenzene | 13.609 | 91 | 94594 | 4.549 ug/l | 98 |
| 90) Hexachloroethane | 13.871 | 117 | 22980 | 4.958 ug/l | 97 |
| 91) 1,2-Dichlorobenzene | 13.651 | 146 | 50829 | 4.843 ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.267 | 75 | 3369 | 4.982 ug/l | 93 |
| 93) 1,2,4-Trichlorobenzene | 14.913 | 180 | 28399 | 4.576 ug/l | 98 |
| 94) Hexachlorobutadiene | 15.017 | 225 | 19196 | 5.263 ug/l | 96 |
| 95) Naphthalene | 15.133 | 128 | 43395 | 4.100 ug/l | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.322 | 180 | 24703 | 4.619 ug/l | 98 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023050.D
Acq On : 12 Aug 2025 14:54
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Quant Time: Aug 13 01:50:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

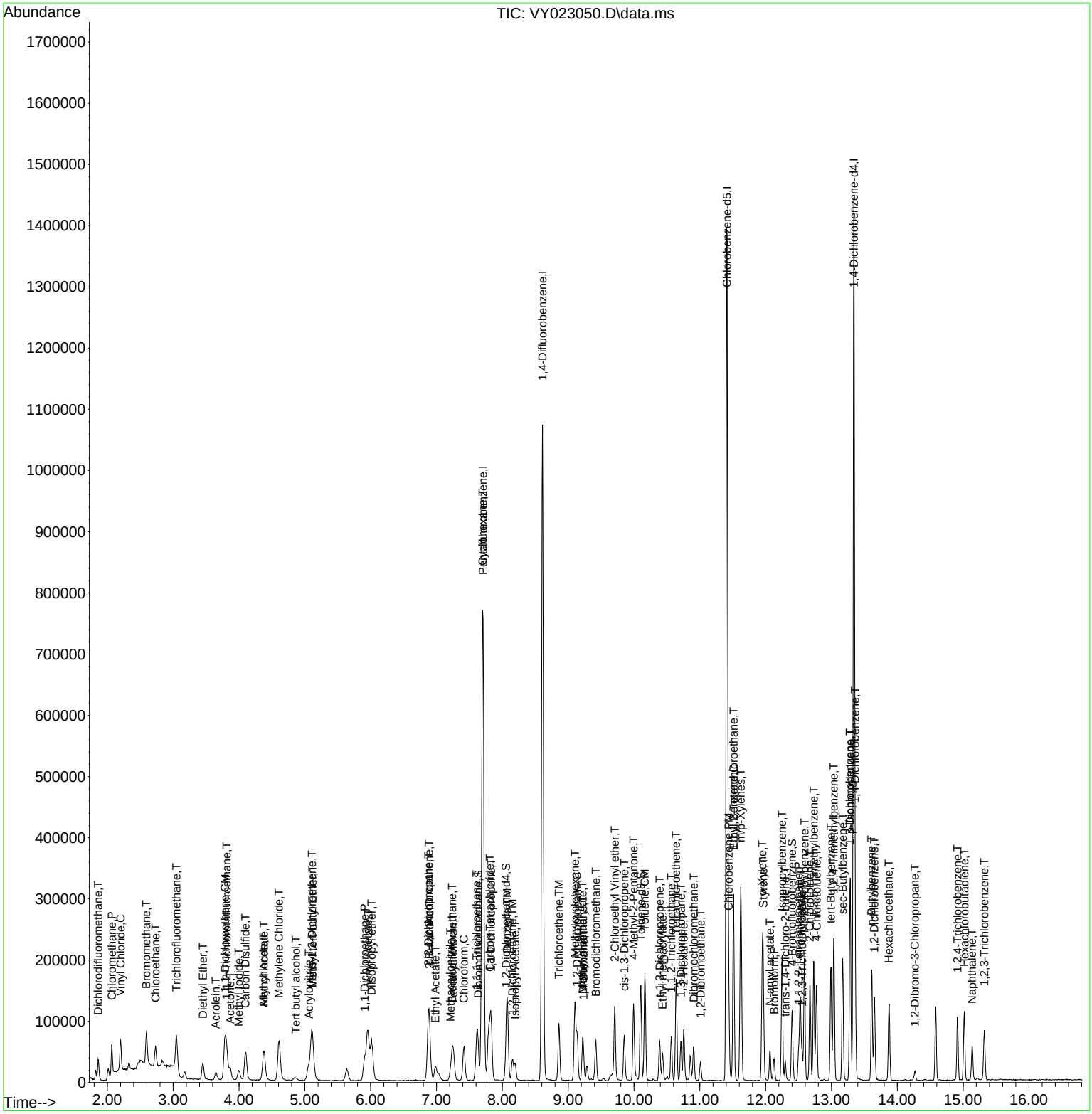
(#) = qualifier out of range (m) = manual integration (+) = signals summed

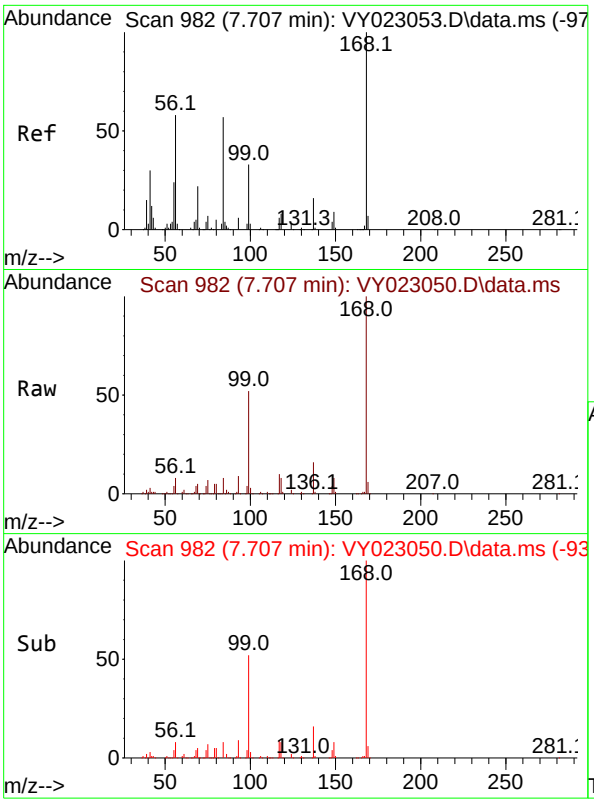
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023050.D
Acq On : 12 Aug 2025 14:54
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Quant Time: Aug 13 01:50:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration



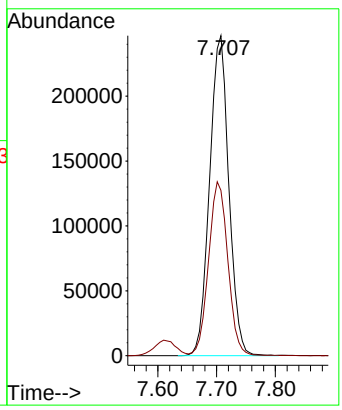


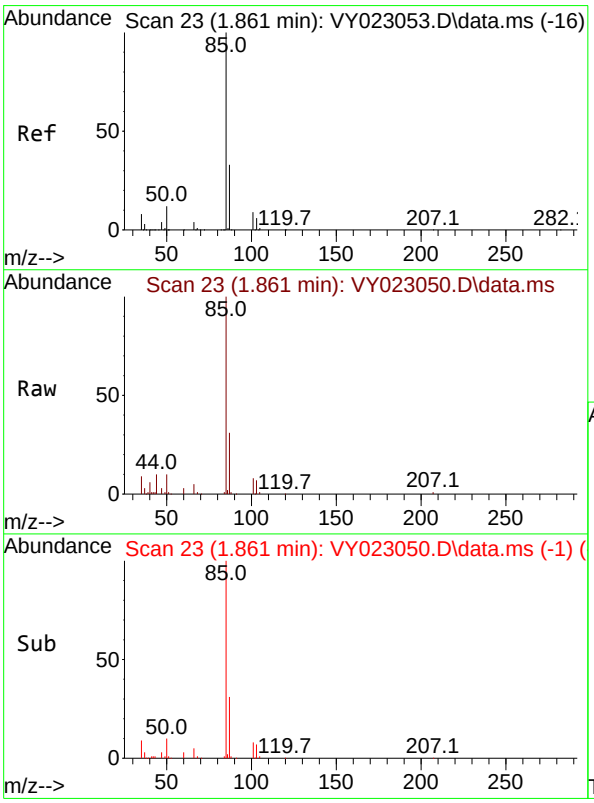

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:168 Resp: 561390

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 51.5 | 42.8 | 64.2 |

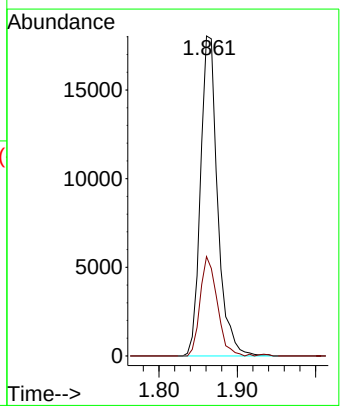


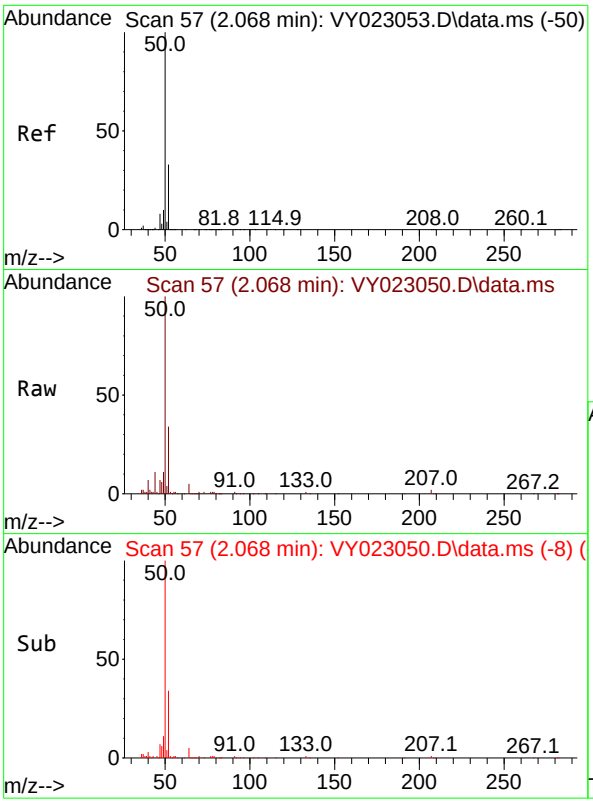




#2
Dichlorodifluoromethane
Concen: 5.969 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 85 Resp: 27351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.0 | 16.6 | 49.8 |



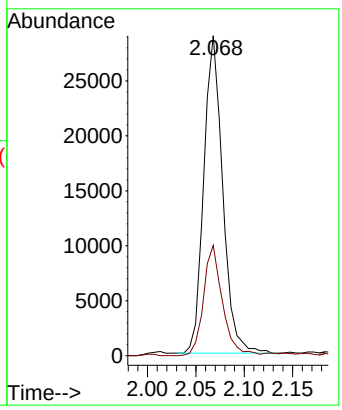


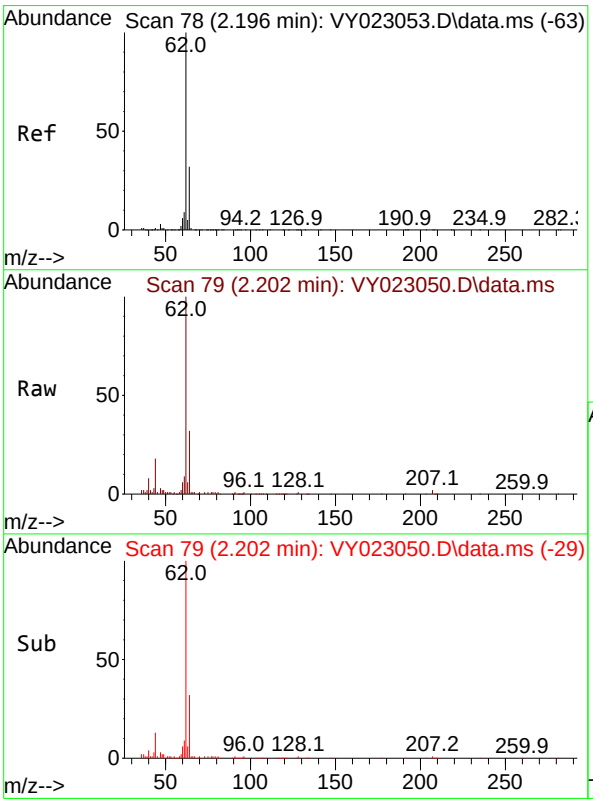

#3
Chloromethane
Concen: 5.291 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 50 Resp: 39269

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 34.7 | 26.7 | 40.1 |

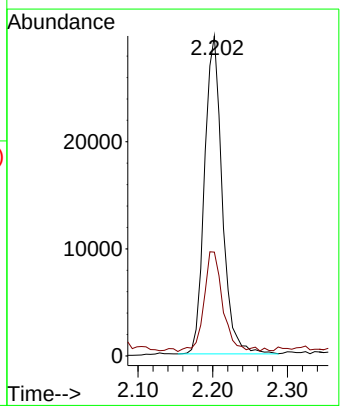


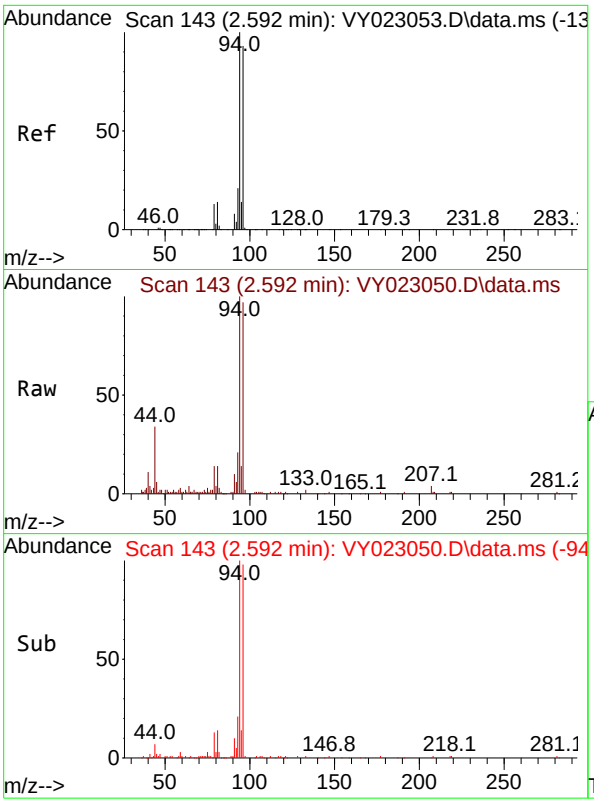




#4
Vinyl Chloride
Concen: 5.312 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 62 Resp: 48736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.3 | 25.4 | 38.0 |



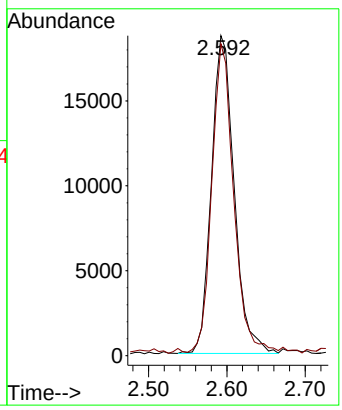


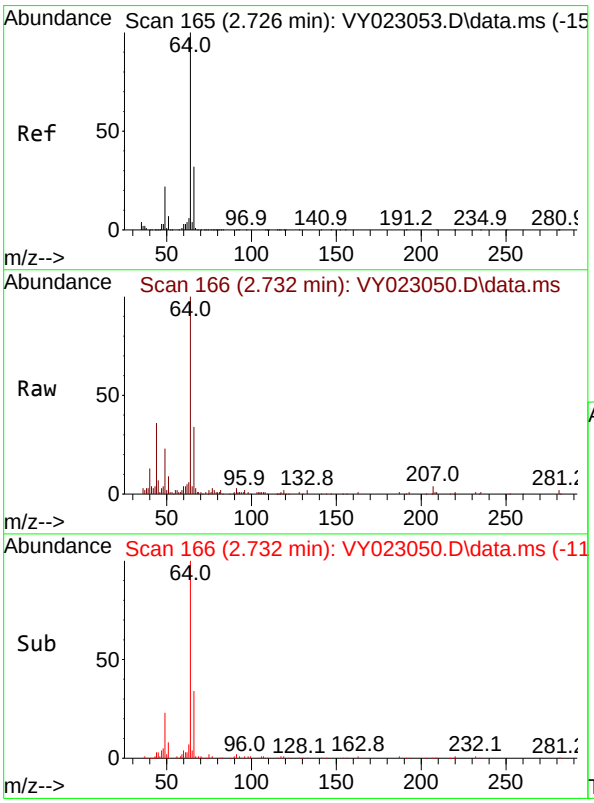

#5
Bromomethane
Concen: 5.513 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 94 Resp: 37773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 96.5 | 74.6 | 112.0 |

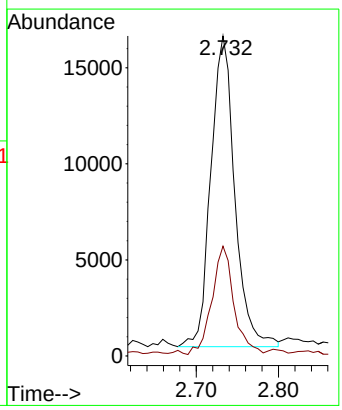


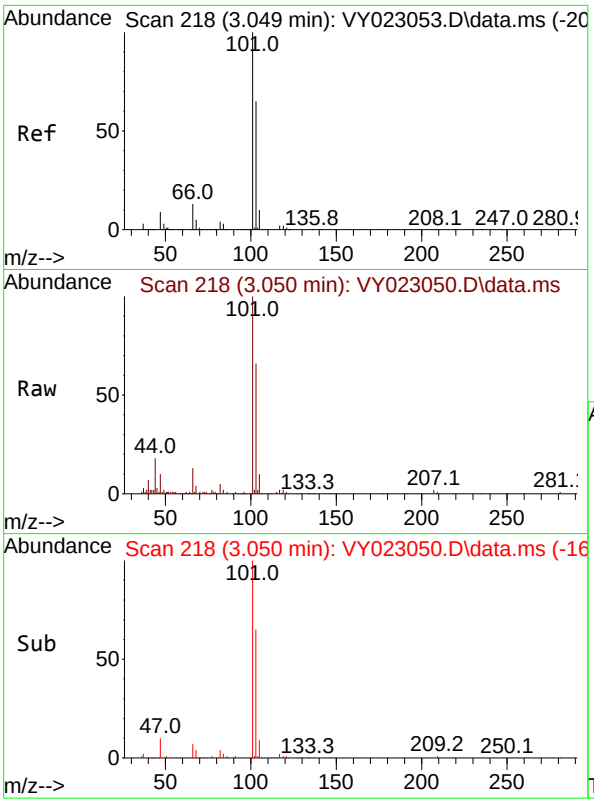




#6
Chloroethane
Concen: 5.380 ug/l
RT: 2.732 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 64 Resp: 32816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 33.5 | 25.8 | 38.6 |



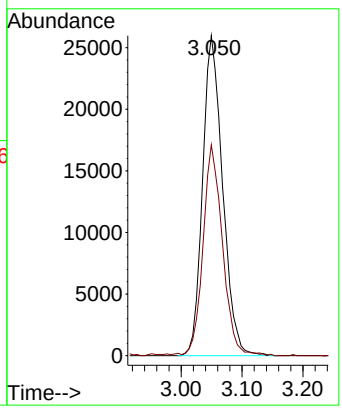


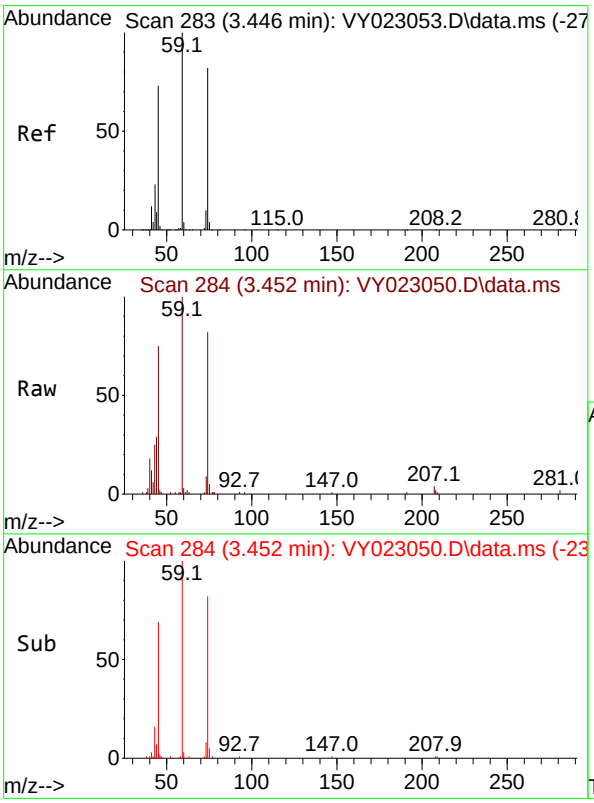

#7
Trichlorofluoromethane
Concen: 5.328 ug/l
RT: 3.050 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:101 Resp: 59438

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.9 | 51.9 | 77.9 |

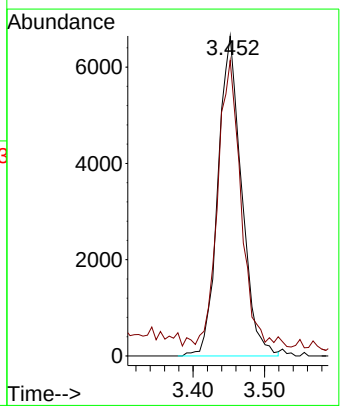


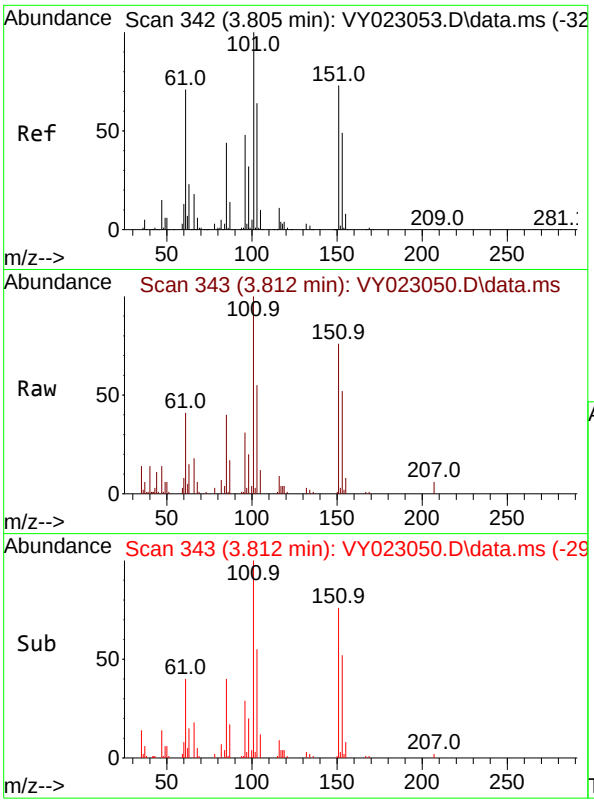




#8
Diethyl Ether
Concen: 5.160 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 74 Resp: 15231

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 88.2 | 44.4 | 133.2 |



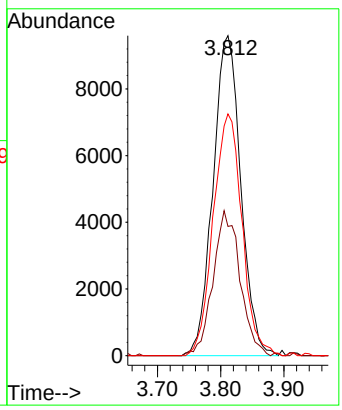


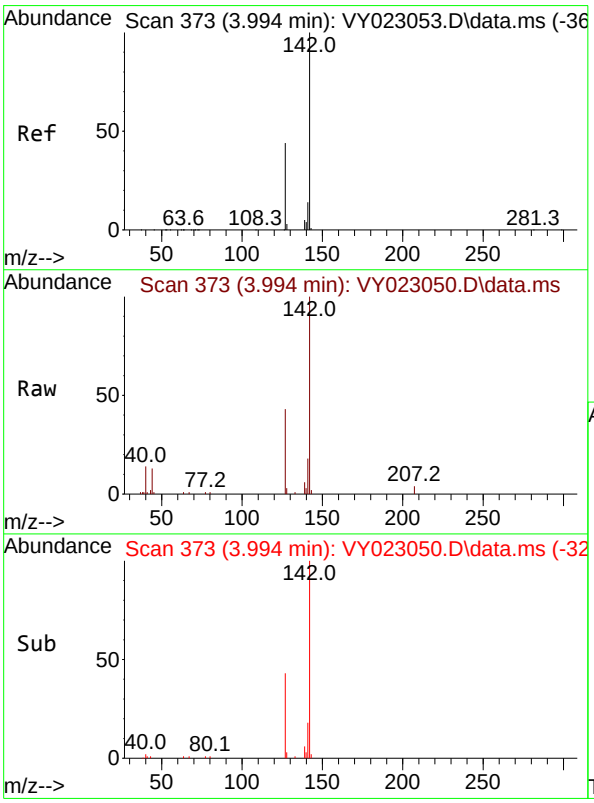

#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.322 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:101 Resp: 29291

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 44.1 | 36.3 | 54.5 |
| 151 | 78.2 | 61.5 | 92.3 |

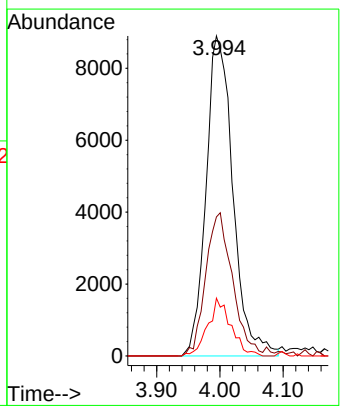


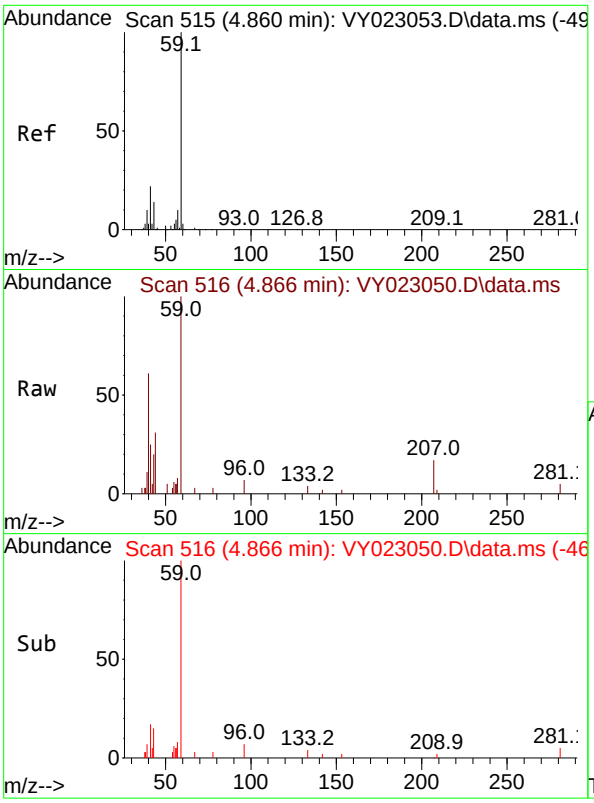




#10
Methyl Iodide
Concen: 4.424 ug/l
RT: 3.994 min Scan# 373
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:142 Resp: 26272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 44.6 | 34.9 | 52.3 |
| 141 | 15.6 | 11.3 | 16.9 |



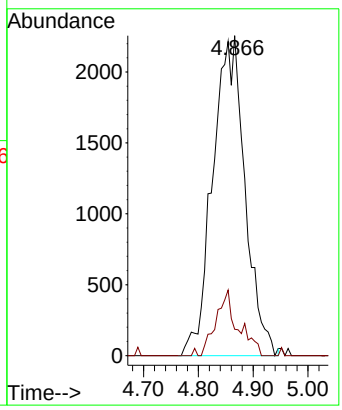


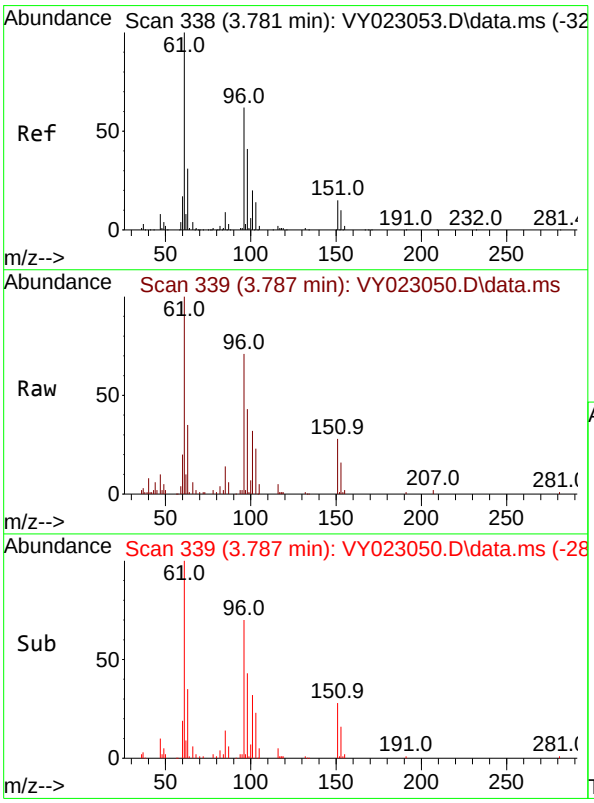

#11
Tert butyl alcohol
Concen: 25.147 ug/l
RT: 4.866 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 59 Resp: 9219

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 13.9 | 8.6 | 13.0# |

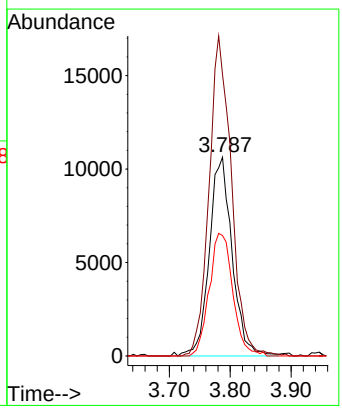


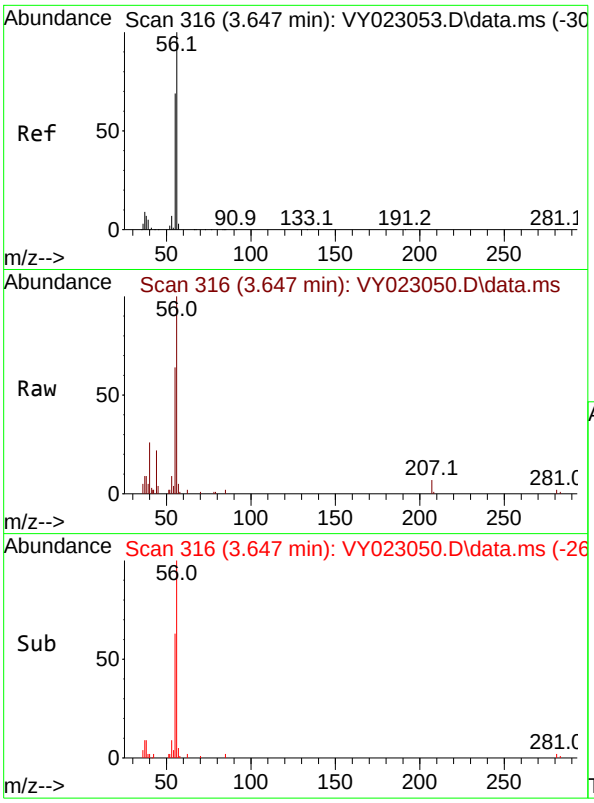




#12
1,1-Dichloroethene
Concen: 5.108 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 96 Resp: 27635

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 141.6 | 129.4 | 194.2 |
| 98 | 60.6 | 52.8 | 79.2 |



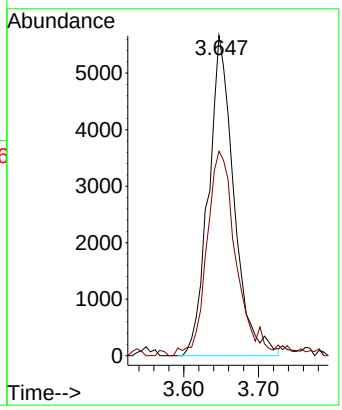


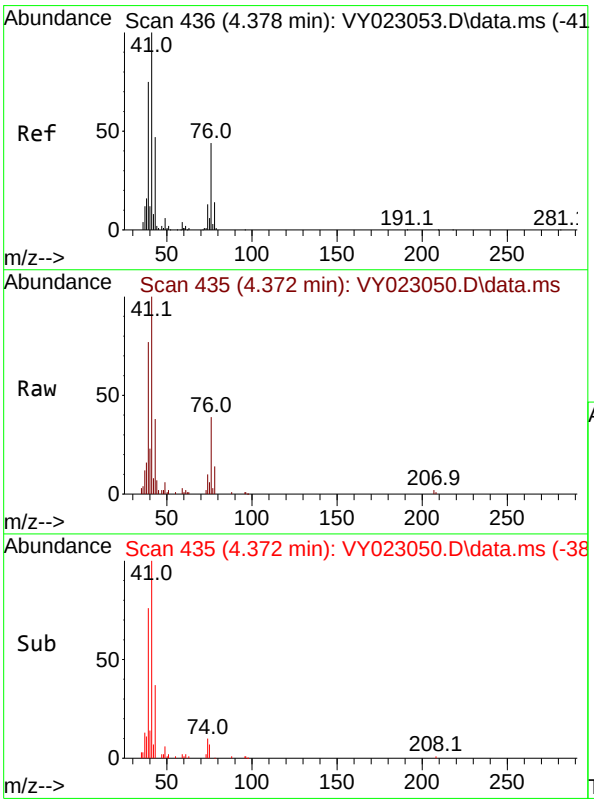

#13
Acrolein
Concen: 24.941 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 56 Resp: 13391

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 72.8 | 55.2 | 82.8 |

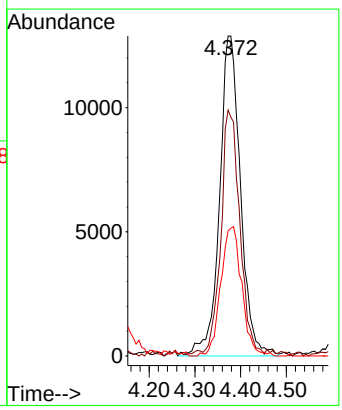


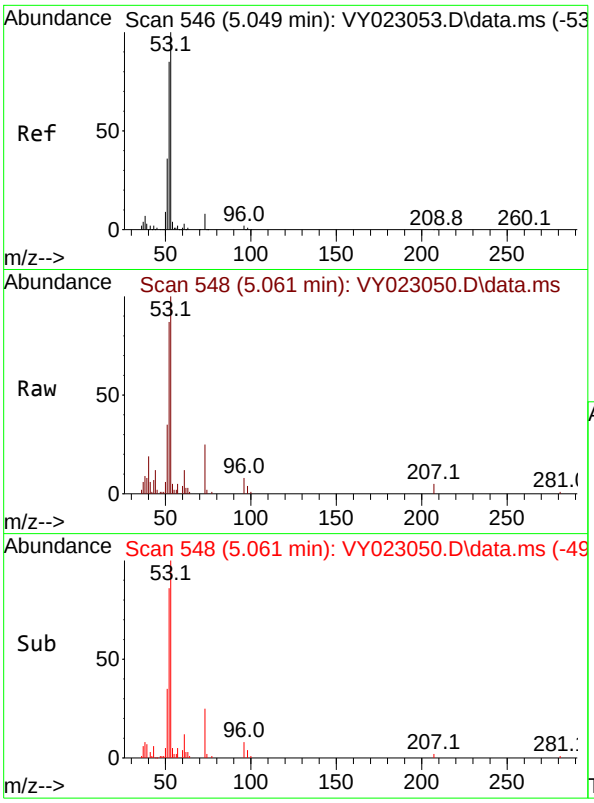




#14
Allyl chloride
Concen: 5.176 ug/l
RT: 4.372 min Scan# 435
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 41 Resp: 41201

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 67.7 | 59.8 | 89.6 |
| 76 | 40.4 | 33.7 | 50.5 |



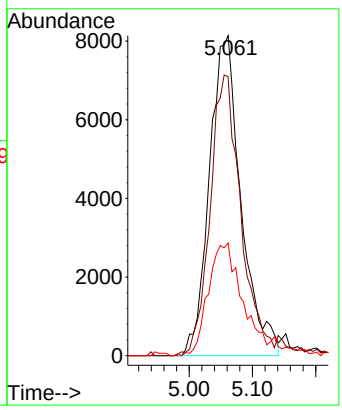


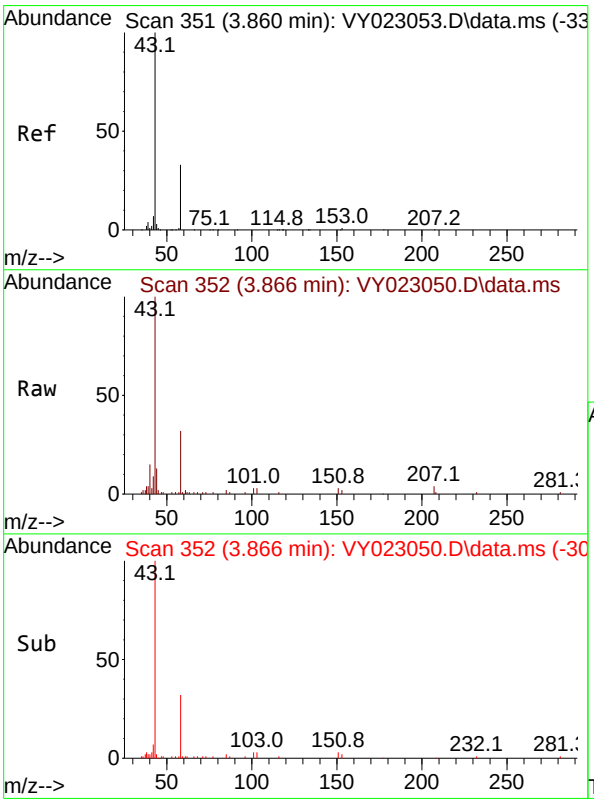

#15
Acrylonitrile
Concen: 23.547 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.012 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 53 Resp: 28255

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 84.9 | 65.3 | 97.9 |
| 51 | 40.9 | 29.5 | 44.3 |

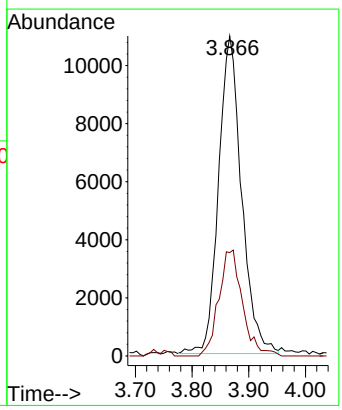


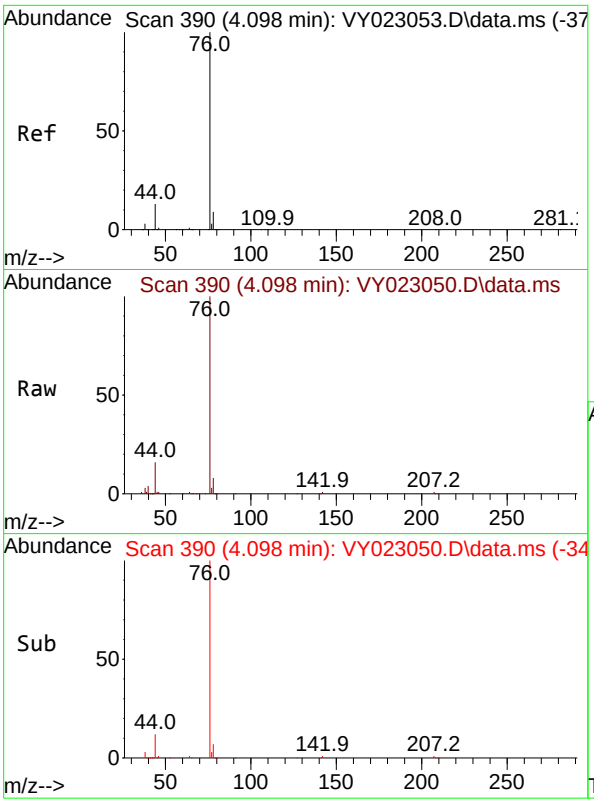




#16
Acetone
Concen: 26.574 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 43 Resp: 30803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.5 | 27.1 | 40.7 |



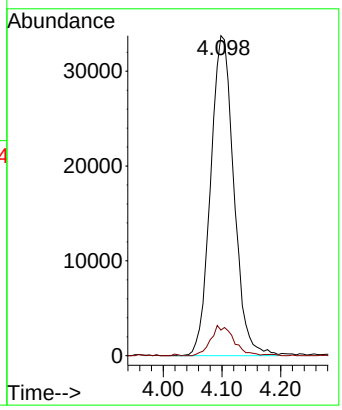


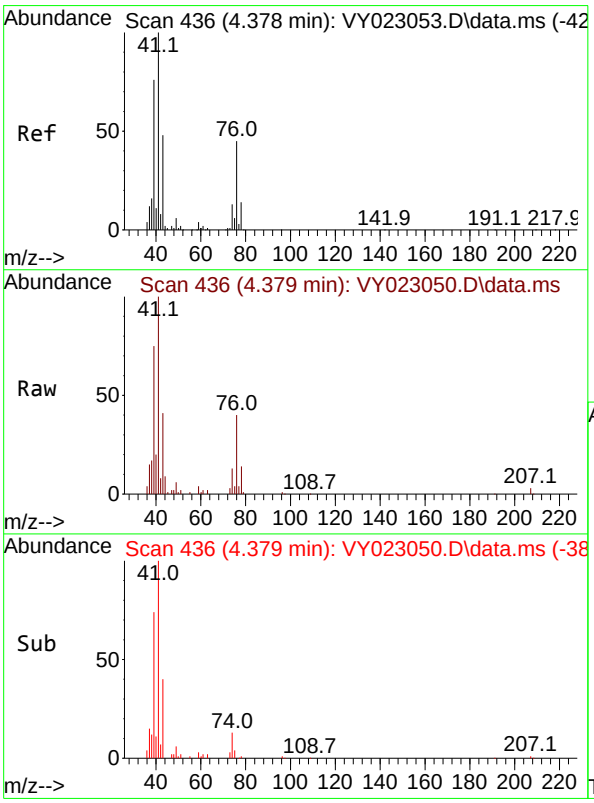

#17
Carbon Disulfide
Concen: 5.270 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 76 Resp: 92964

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 7.8 | 7.4 | 11.2 |

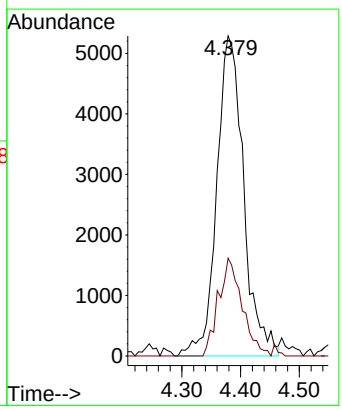


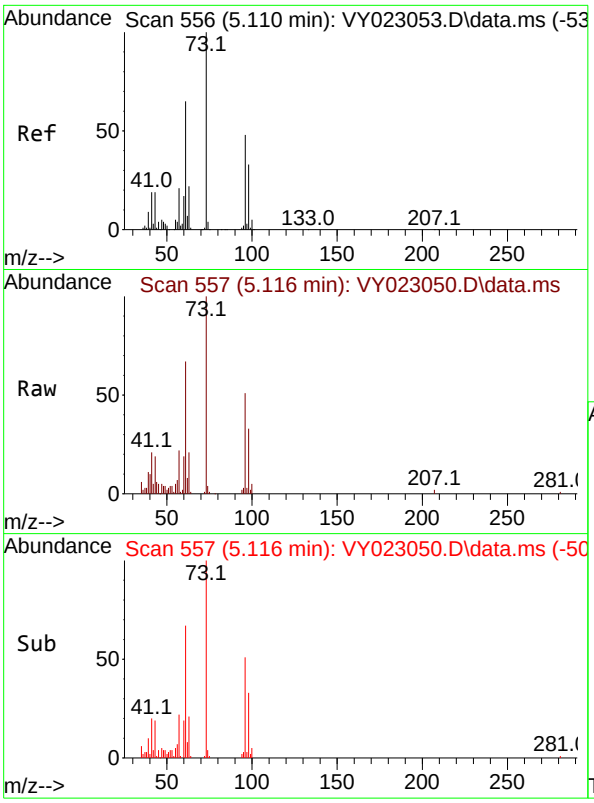




#18
Methyl Acetate
Concen: 4.872 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 43 Resp: 16806

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 26.9 | 21.2 | 31.8 |



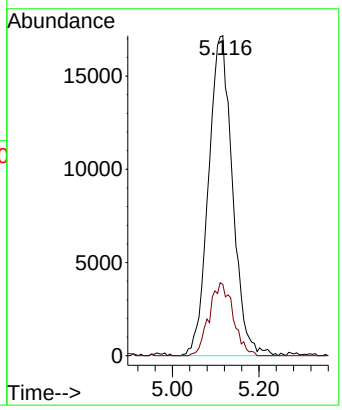


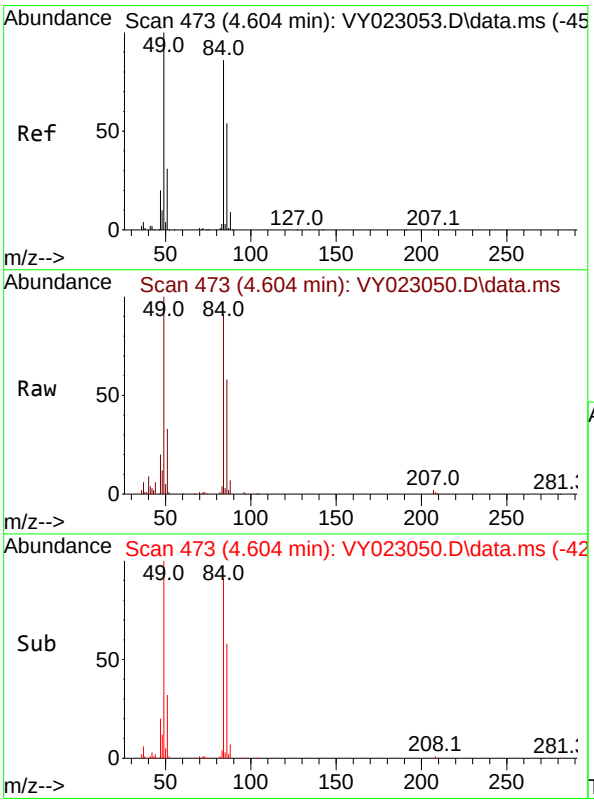

#19
Methyl tert-butyl Ether
Concen: 4.730 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 73 Resp: 66308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.3 | 17.1 | 25.7 |

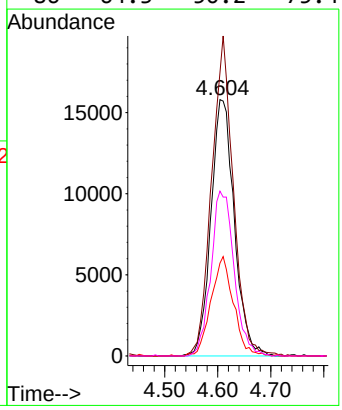


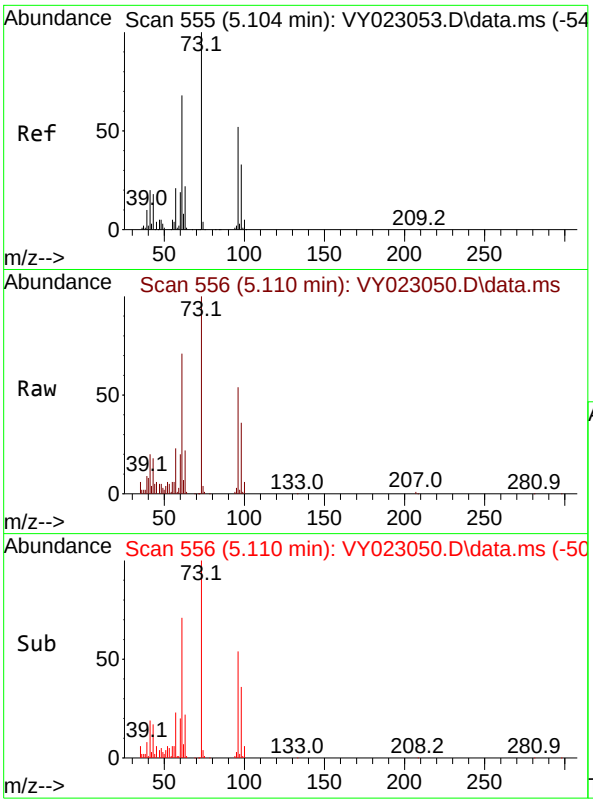




#20
Methylene Chloride
Concen: 5.657 ug/l
RT: 4.604 min Scan# 473
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 84 Resp: 48322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 110.5 | 93.0 | 139.6 |
| 51 | 36.2 | 29.0 | 43.4 |
| 86 | 64.3 | 50.2 | 75.4 |



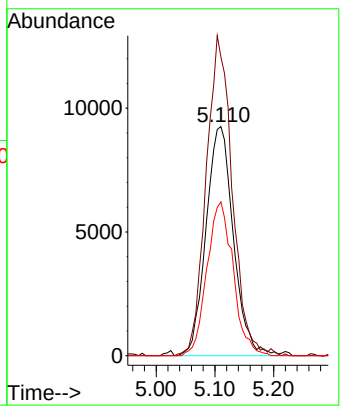


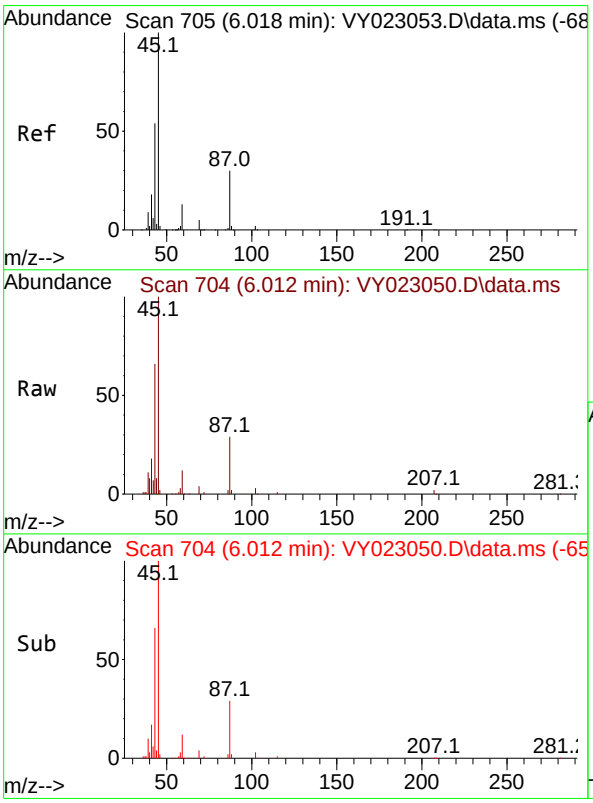

#21
trans-1,2-Dichloroethene
Concen: 4.938 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 96 Resp: 30021

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 129.7 | 104.8 | 157.2 |
| 98 | 67.2 | 50.1 | 75.1 |

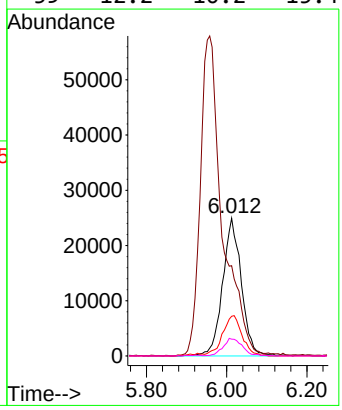


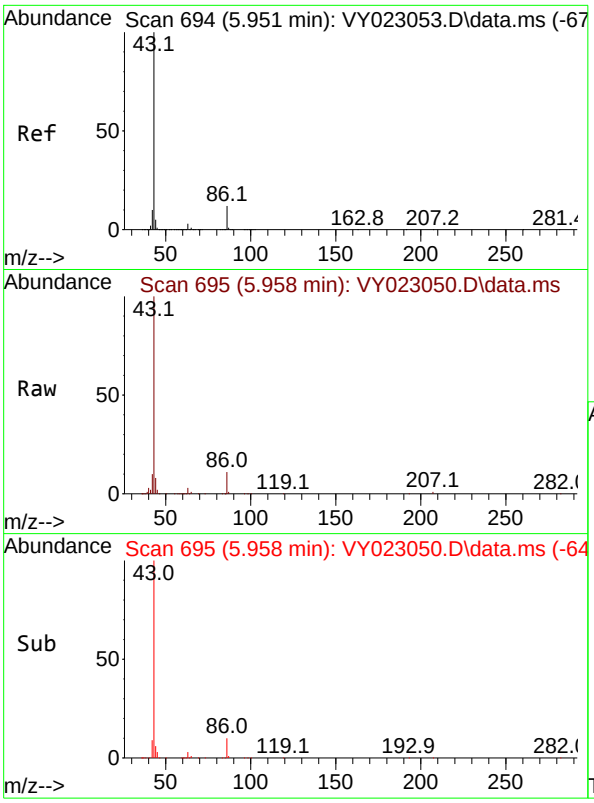




#22
Diisopropyl ether
Concen: 4.679 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 45 Resp: 80938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 64.9 | 43.4 | 65.0 |
| 87 | 28.9 | 24.4 | 36.6 |
| 59 | 12.2 | 10.2 | 15.4 |



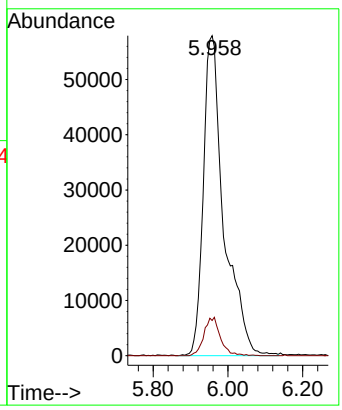


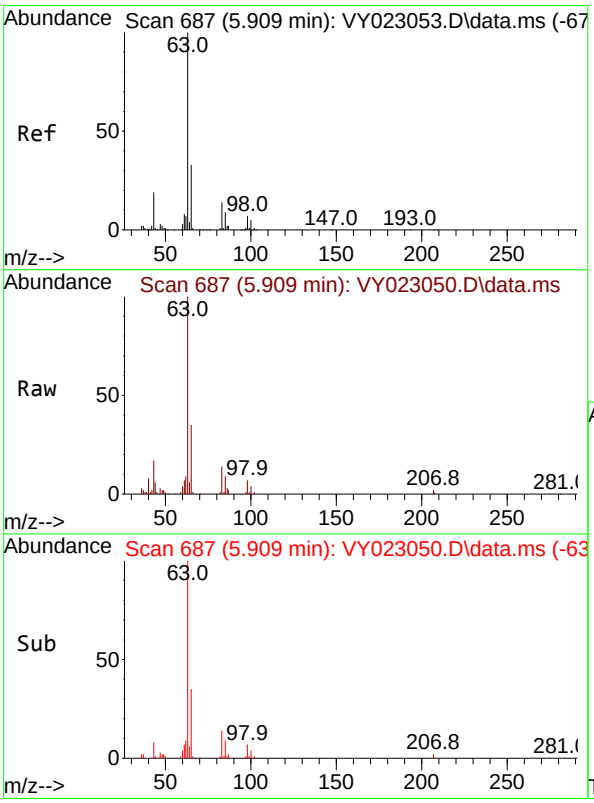

#23
Vinyl Acetate
Concen: 23.196 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 43 Resp: 221862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.0 | 9.6 | 14.4 |

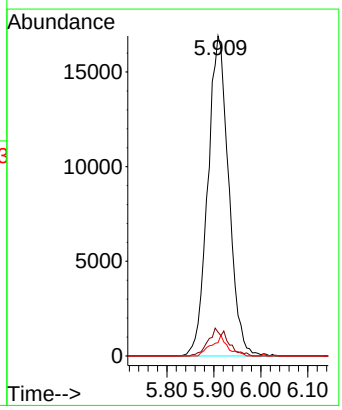


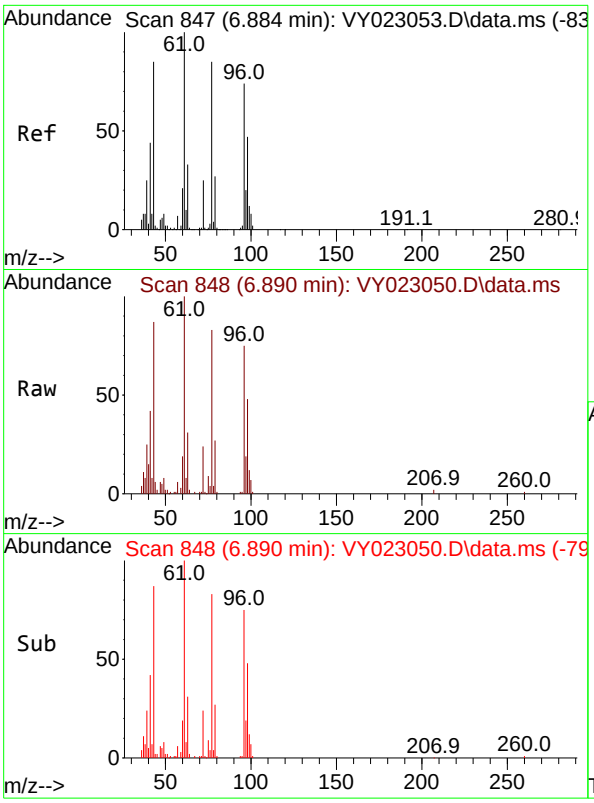




#24
1,1-Dichloroethane
Concen: 4.931 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 63 Resp: 52152

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.4 | 3.5 | 10.6 |
| 100 | 4.1 | 2.4 | 7.1 |



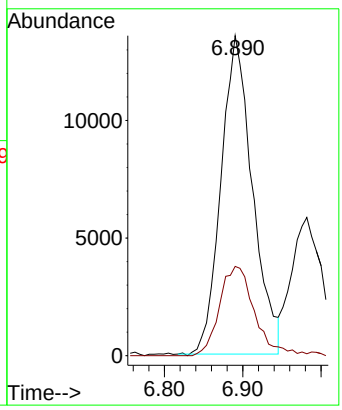


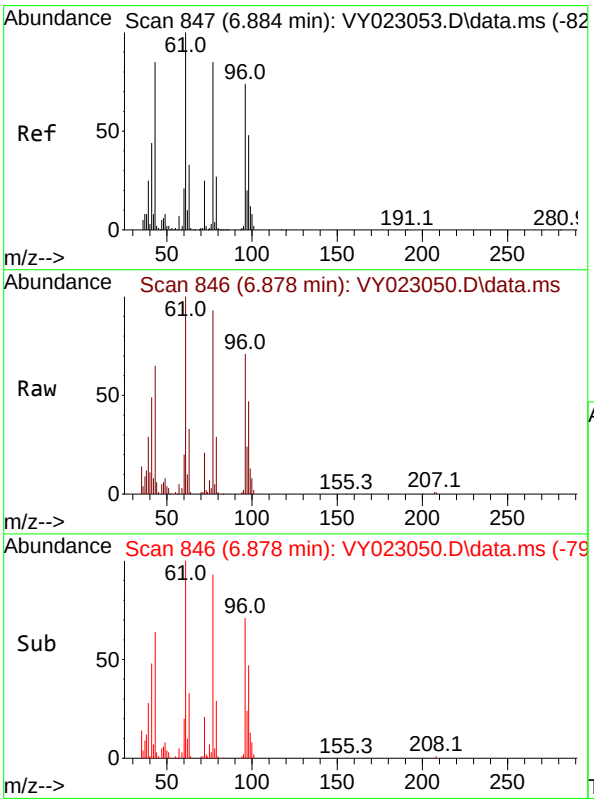

#25
2-Butanone
Concen: 23.991 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 43 Resp: 37821

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 28.0 | 23.5 | 35.3 |

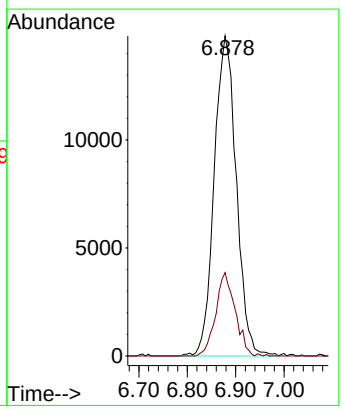


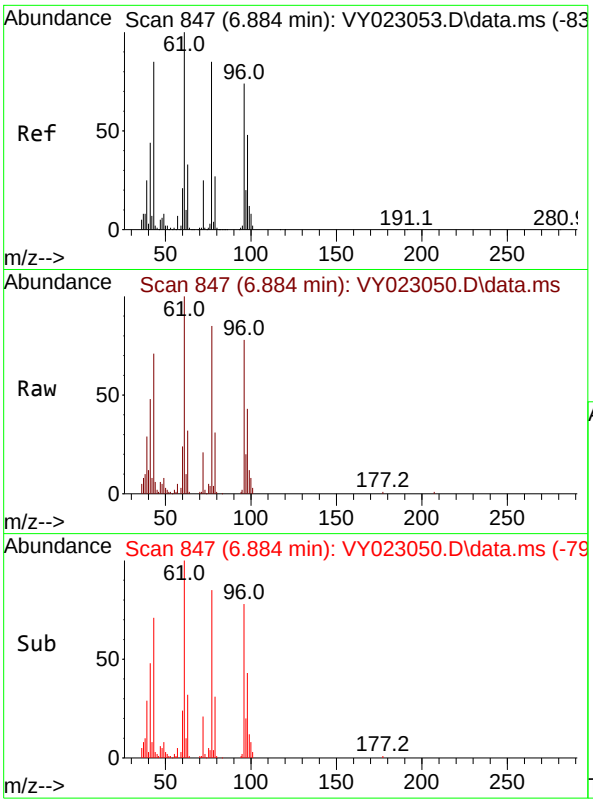




#26
2,2-Dichloropropane
Concen: 5.147 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 77 Resp: 46964

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.8 | 11.6 | 34.8 |



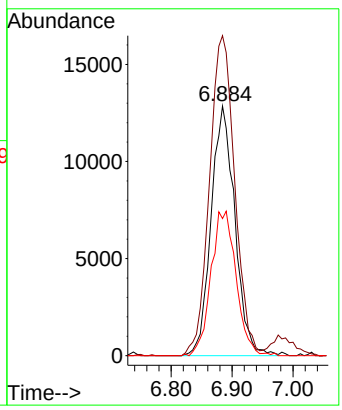


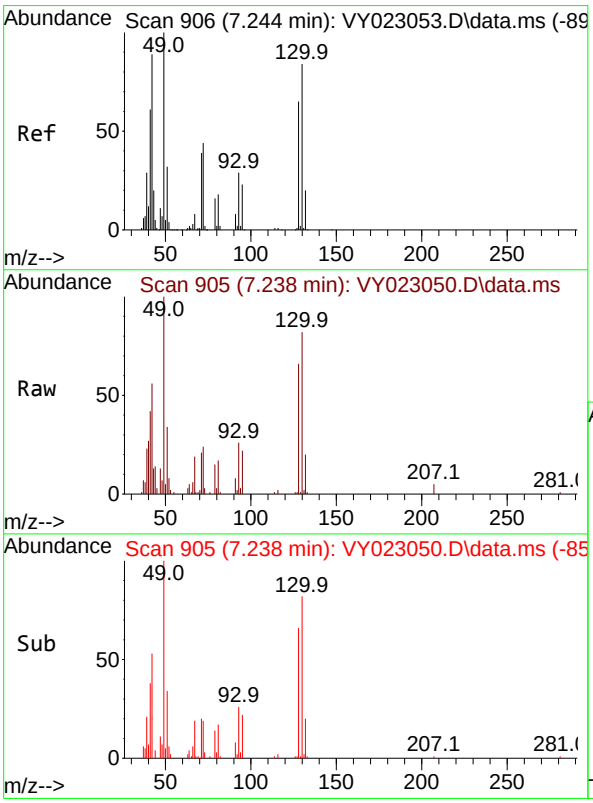

#27
cis-1,2-Dichloroethene
Concen: 4.962 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 96 Resp: 34877

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 135.9 | 0.0 | 278.6 |
| 98 | 61.4 | 0.0 | 130.4 |

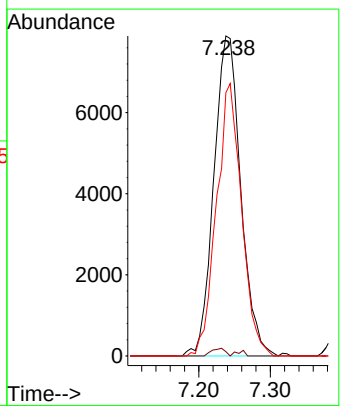


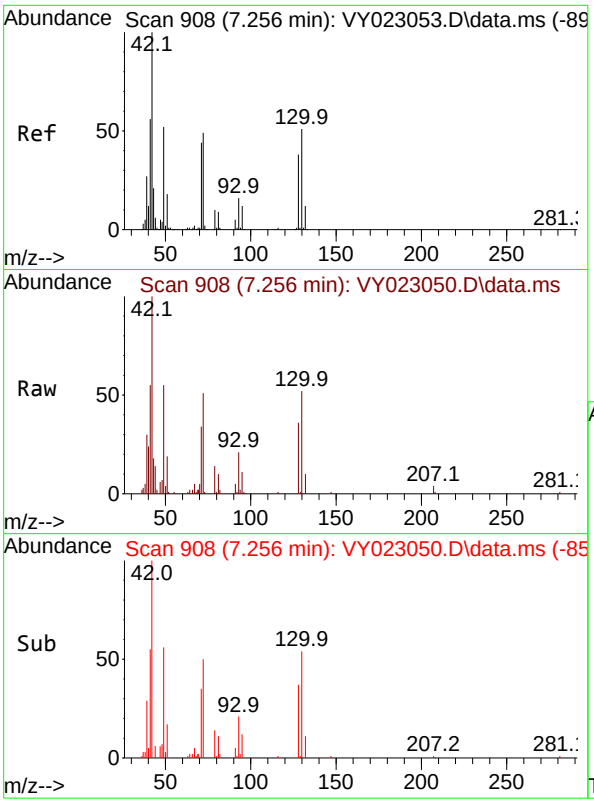




#28
Bromochloromethane
Concen: 4.913 ug/l
RT: 7.238 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 49 Resp: 20615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.2 | 0.0 | 4.2 |
| 130 | 79.7 | 66.4 | 99.6 |



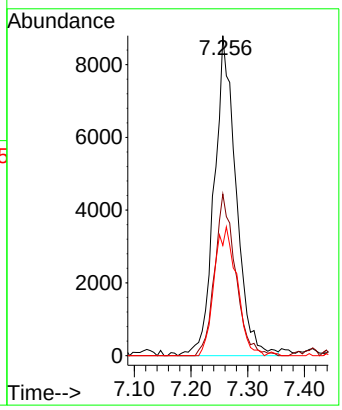


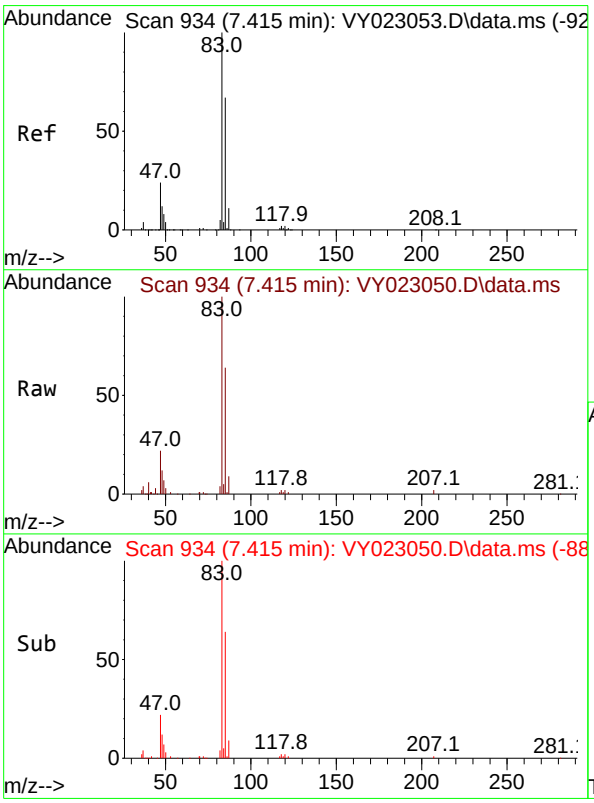

#29
Tetrahydrofuran
Concen: 24.035 ug/l
RT: 7.256 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 42 Resp: 23487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 48.1 | 39.4 | 59.2 |
| 71 | 41.8 | 36.5 | 54.7 |

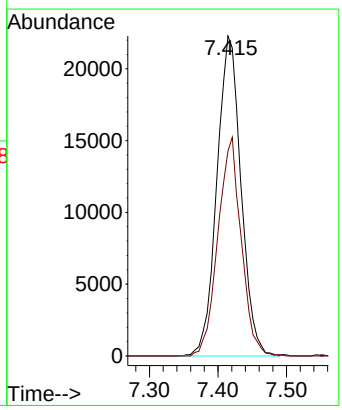


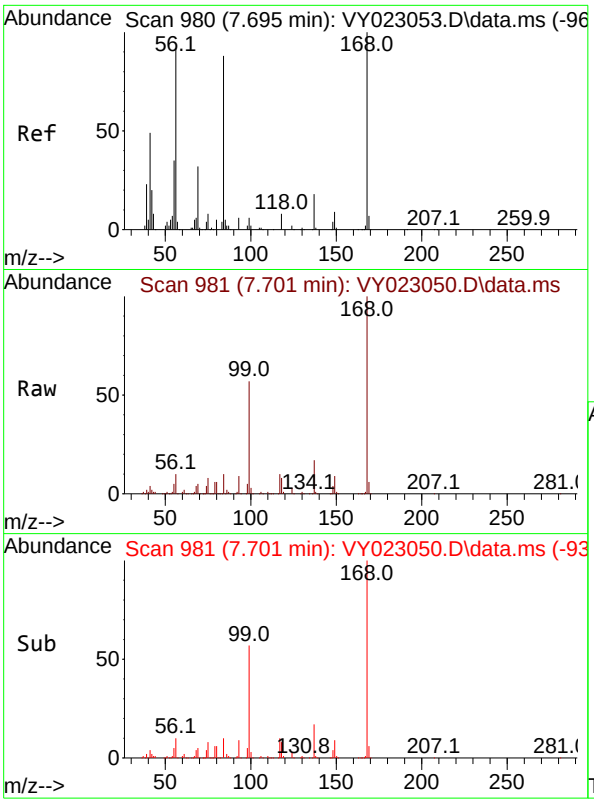




#30
Chloroform
Concen: 4.987 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 83 Resp: 54392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.0 | 53.8 | 80.8 |



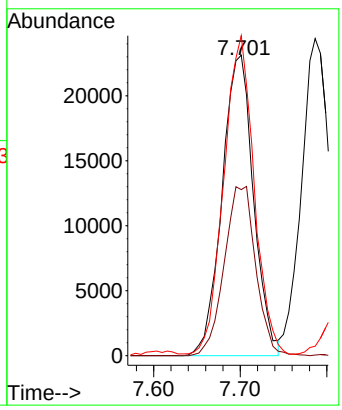


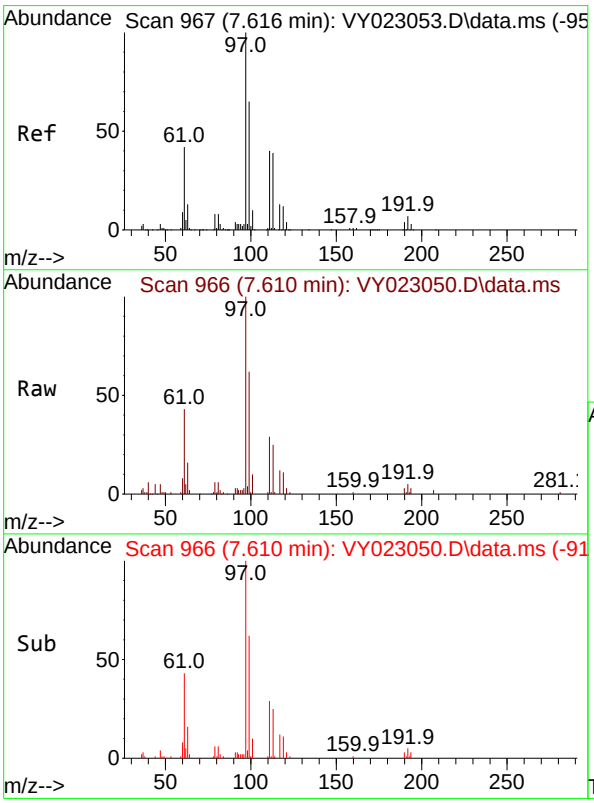

#31
Cyclohexane
Concen: 5.856 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 56 Resp: 58362

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 55.3 | 28.2 | 42.2# |
| 84 | 105.9 | 76.6 | 114.8 |

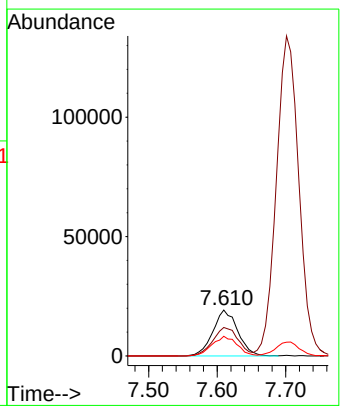


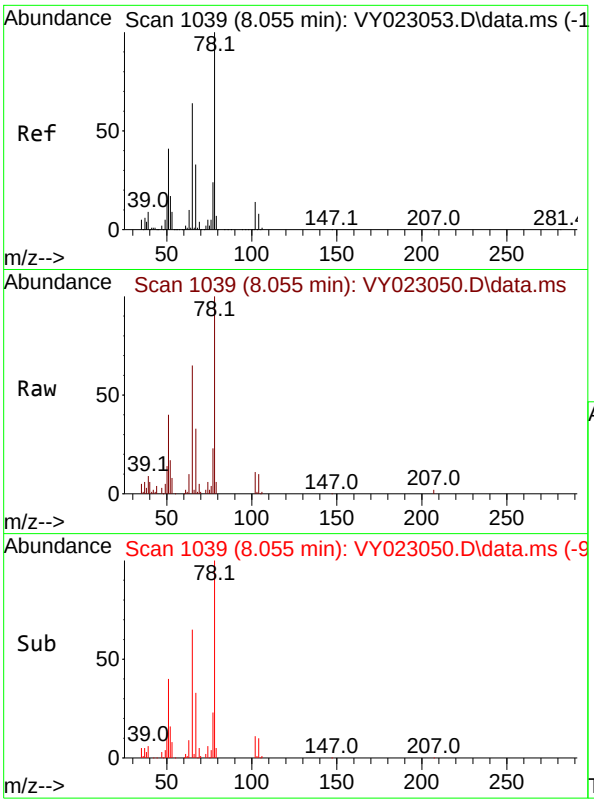




#32
1,1,1-Trichloroethane
Concen: 5.003 ug/l
RT: 7.610 min Scan# 966
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 97 Resp: 48413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.8 | 51.6 | 77.4 |
| 61 | 43.4 | 34.2 | 51.2 |



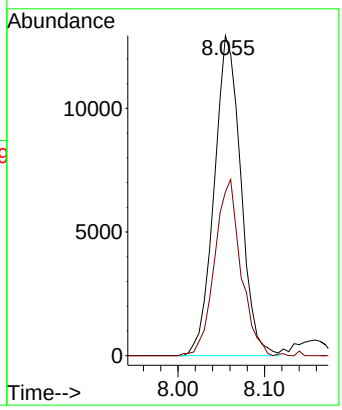


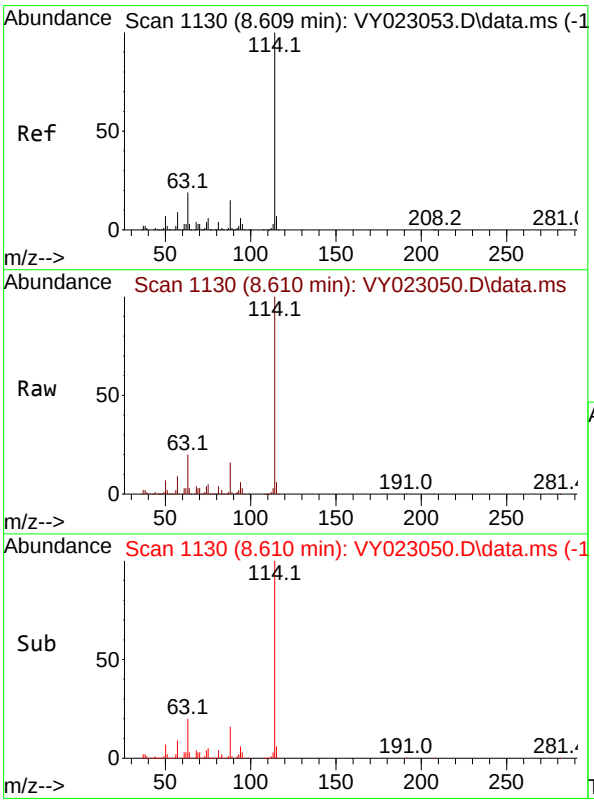

#33
1,2-Dichloroethane-d4
Concen: 5.152 ug/l
RT: 8.055 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 65 Resp: 27563

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 54.5 | 0.0 | 106.8 |

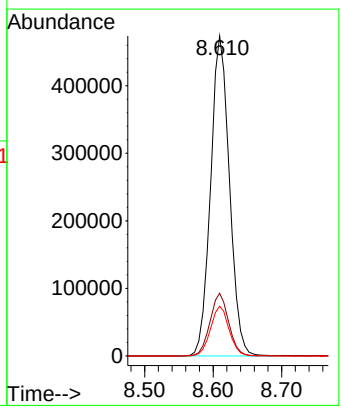


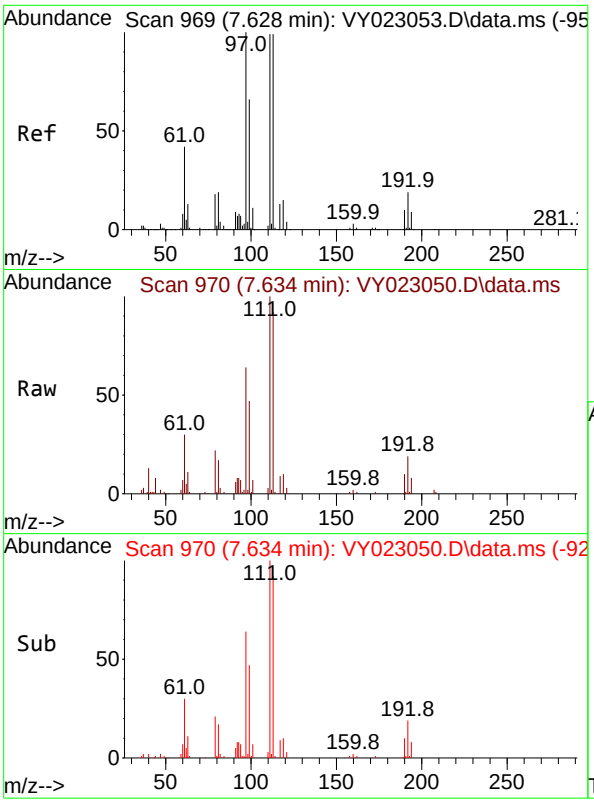




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:114 Resp: 904866

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.6 | 0.0 | 38.4 |
| 88 | 15.5 | 0.0 | 30.0 |



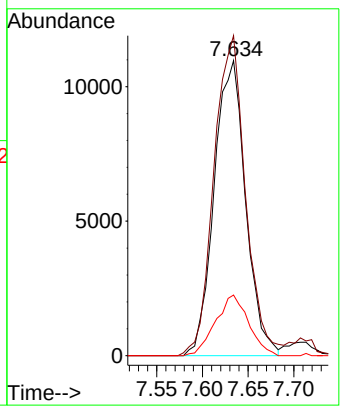


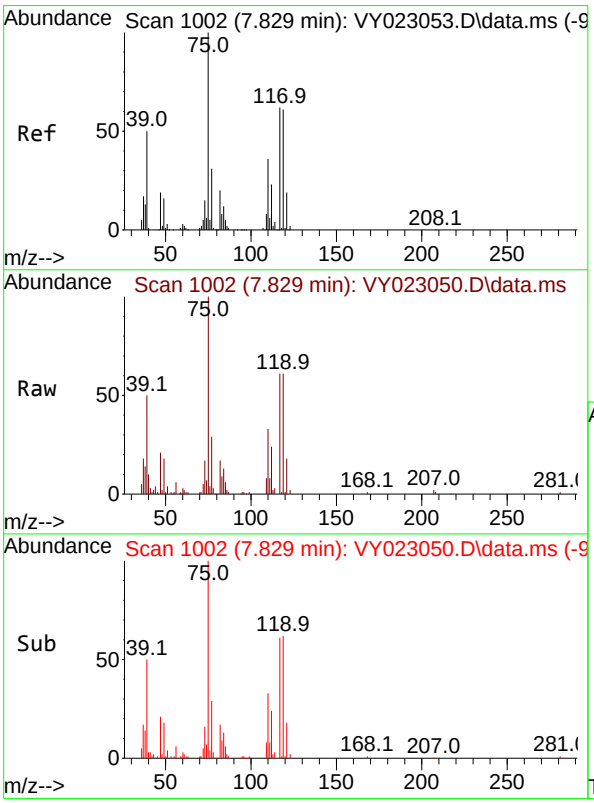

#35
Dibromofluoromethane
Concen: 4.851 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:113 Resp: 26265

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 108.8 | 81.1 | 121.7 |
| 192 | 21.6 | 16.2 | 24.4 |

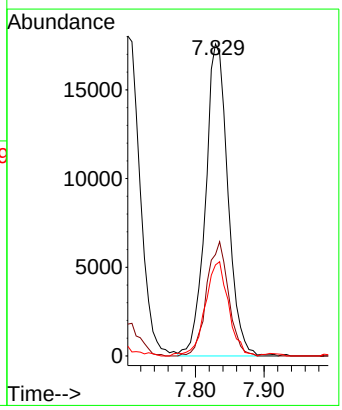


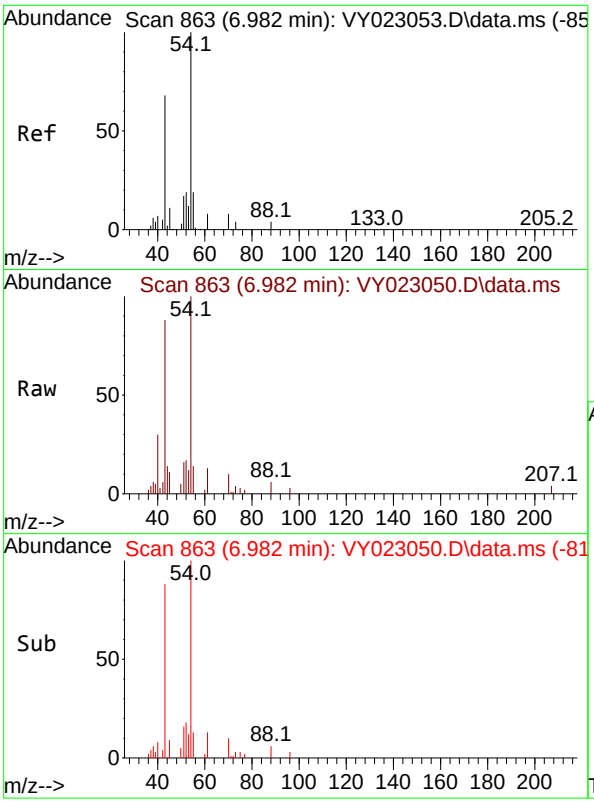




#36
1,1-Dichloropropene
Concen: 4.968 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 75 Resp: 39978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.9 | 18.1 | 54.4 |
| 77 | 31.4 | 24.6 | 37.0 |



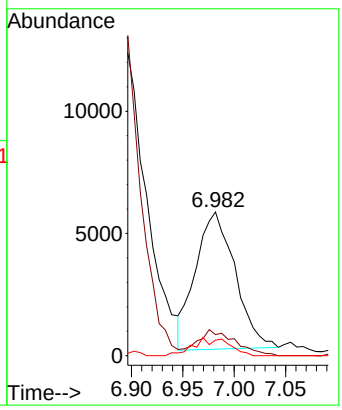


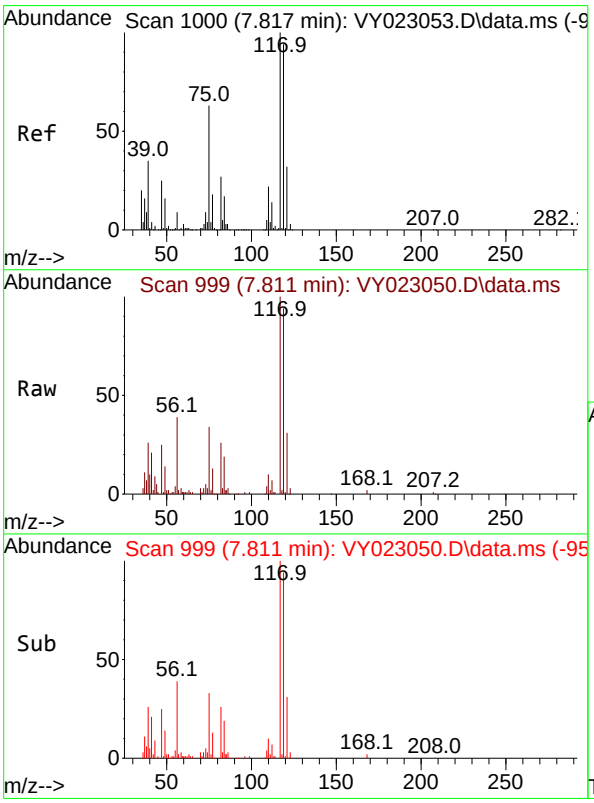

#37
Ethyl Acetate
Concen: 4.461 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 43 Resp: 15080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 18.1 | 11.9 | 17.9# |
| 70 | 11.6 | 8.8 | 13.2 |

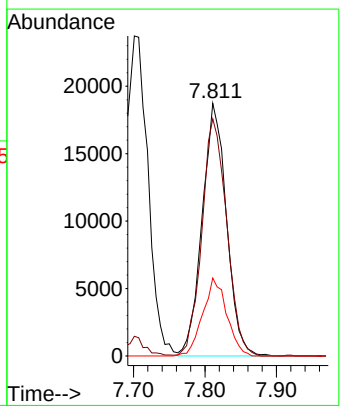


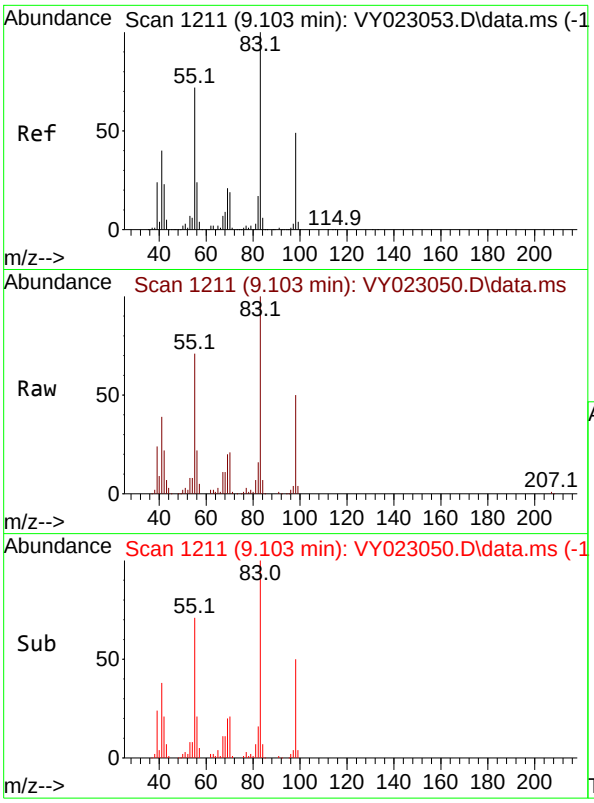




#38
Carbon Tetrachloride
Concen: 5.076 ug/l
RT: 7.811 min Scan# 999
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:117 Resp: 44360

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 93.9 | 75.6 | 113.4 |
| 121 | 30.8 | 25.8 | 38.8 |



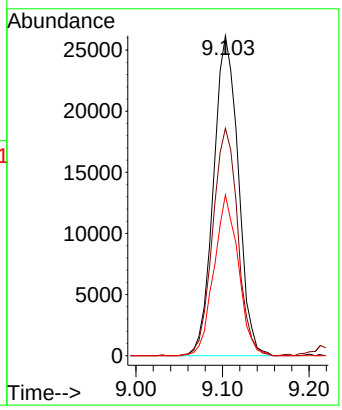


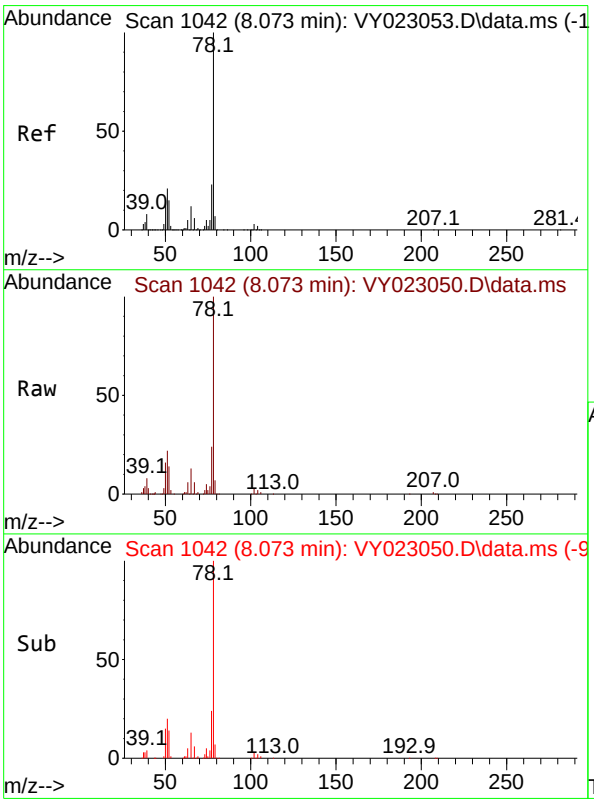

#39
Methylcyclohexane
Concen: 4.901 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 83 Resp: 51931

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 71.1 | 57.6 | 86.4 |
| 98 | 50.2 | 39.2 | 58.8 |

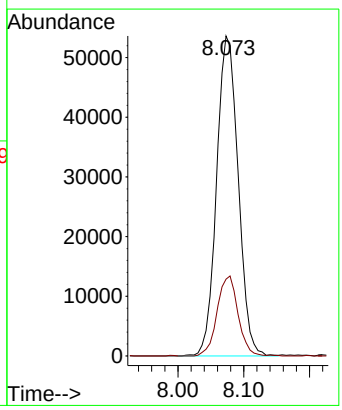


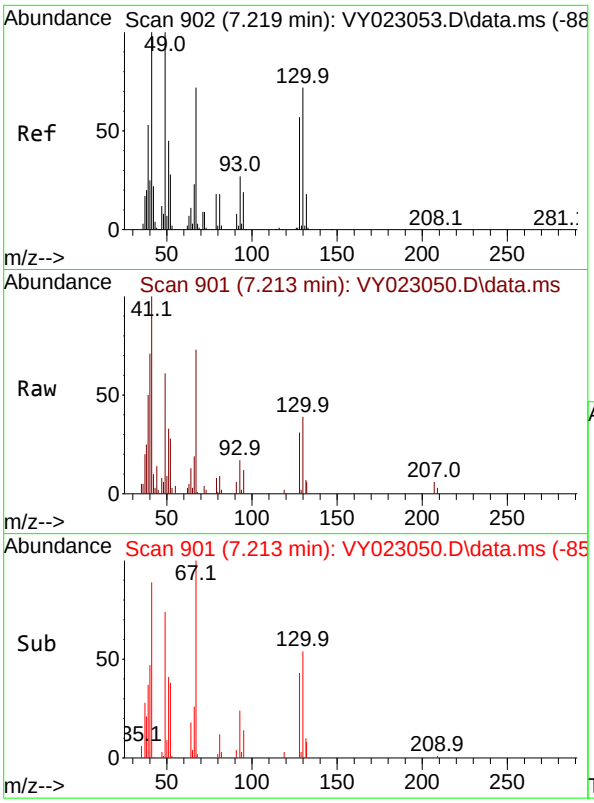




#40
Benzene
Concen: 4.939 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 78 Resp: 122482

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.0 | 18.6 | 28.0 |



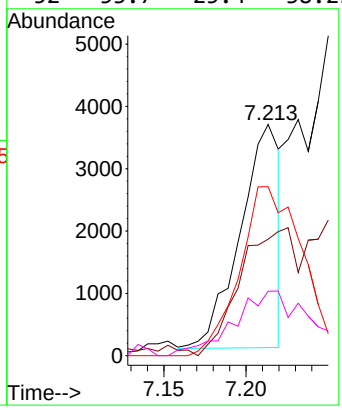


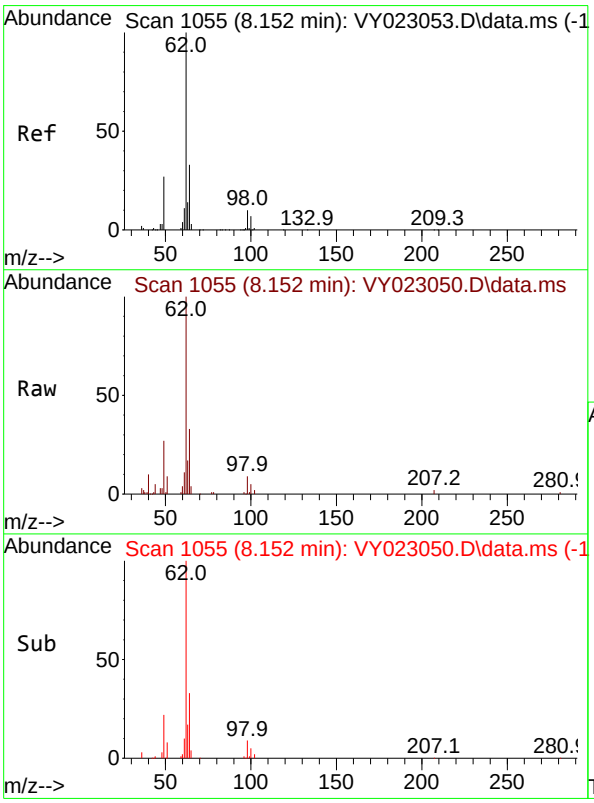

#41
Methacrylonitrile
Concen: 3.075 ug/l
RT: 7.213 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 41 Resp: 6006

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 80.4 | 43.4 | 65.2# |
| 67 | 123.5 | 63.6 | 95.4# |
| 52 | 53.7 | 25.4 | 38.2# |

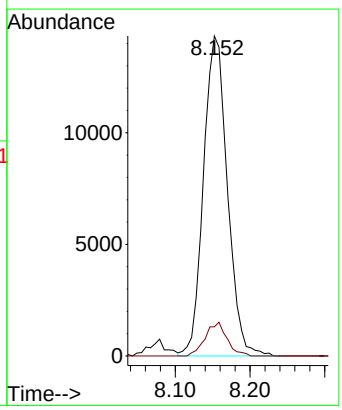


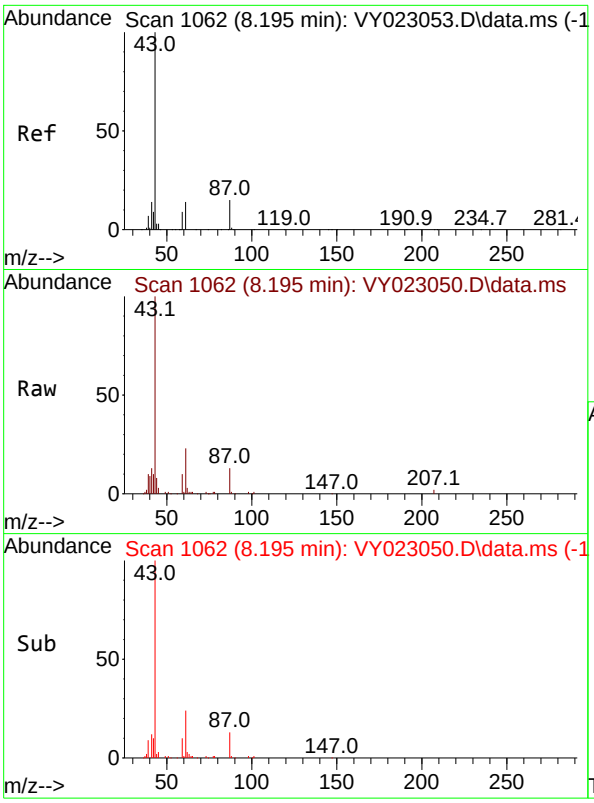




#42
1,2-Dichloroethane
Concen: 4.946 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 62 Resp: 31902

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.6 | 0.0 | 20.6 |



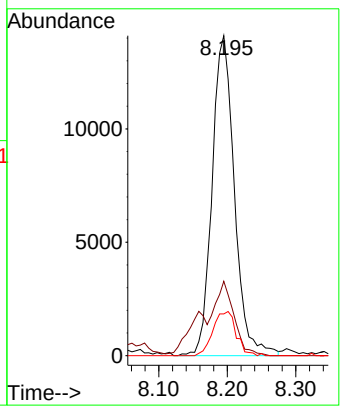


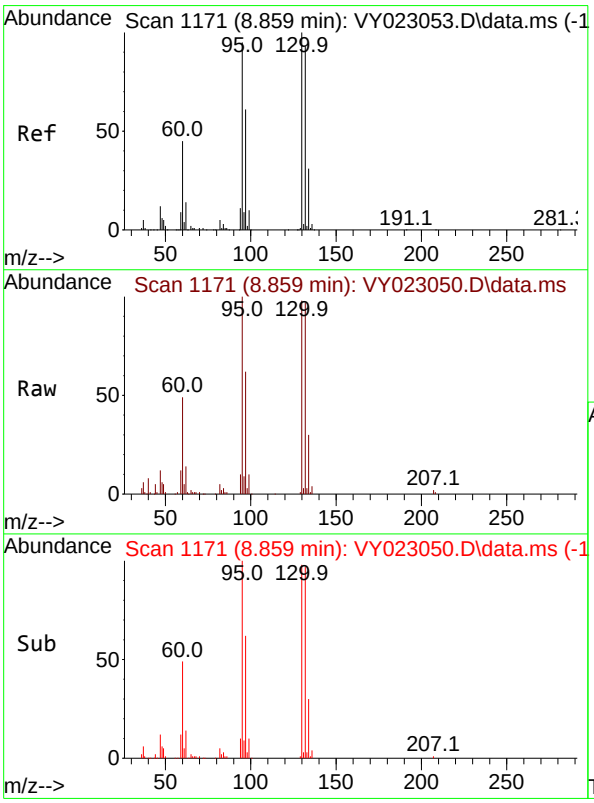

#43
Isopropyl Acetate
Concen: 4.668 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 43 Resp: 31890

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 20.6 | 16.4 | 24.6 |
| 87 | 14.4 | 11.8 | 17.6 |

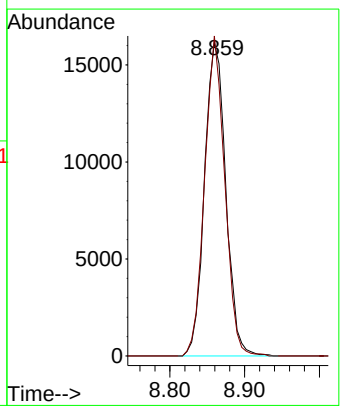


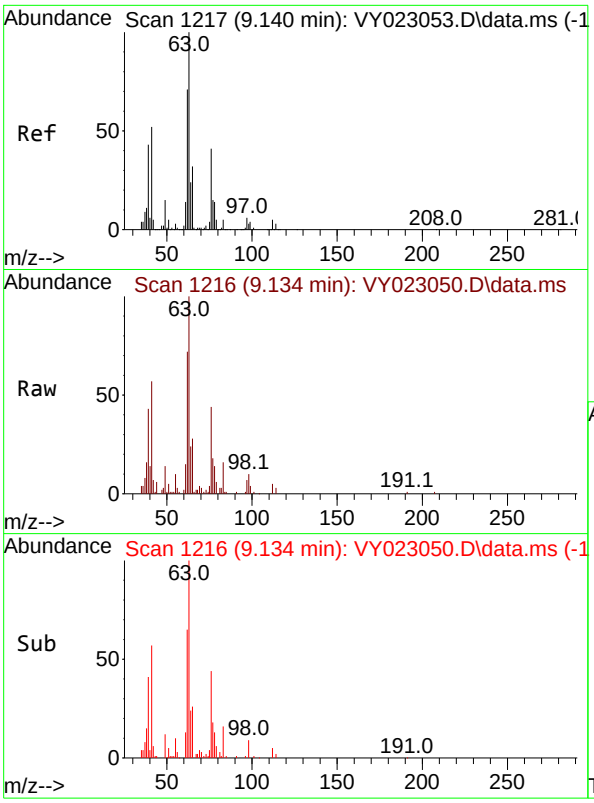




#44
Trichloroethene
Concen: 5.001 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:130 Resp: 32050

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 102.2 | 0.0 | 190.2 |



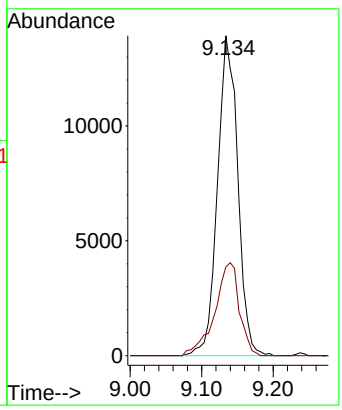


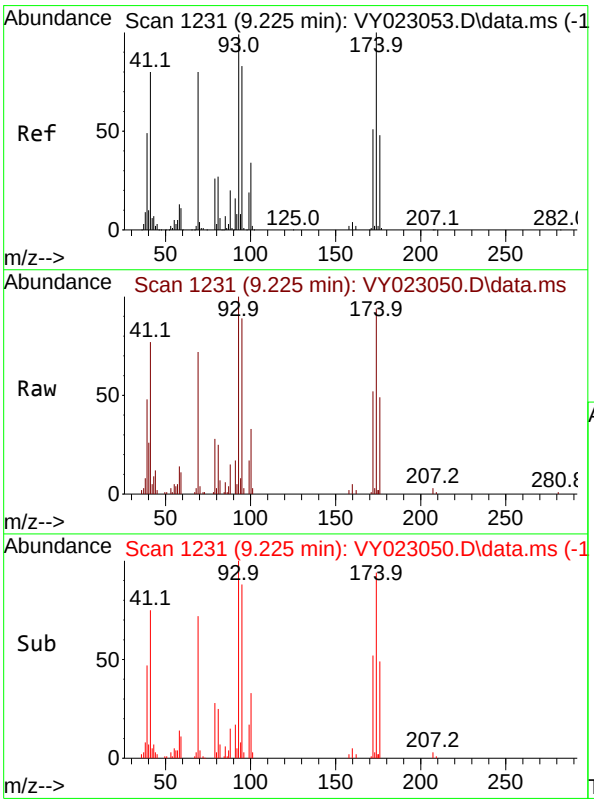

#45
1,2-Dichloropropane
Concen: 4.805 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 63 Resp: 27418

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 27.7 | 25.3 | 37.9 |

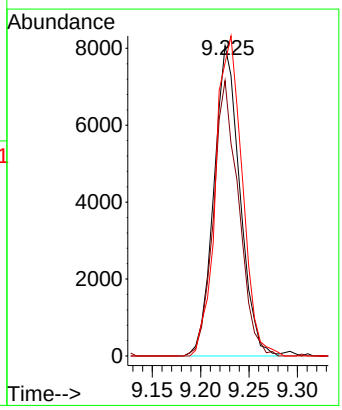


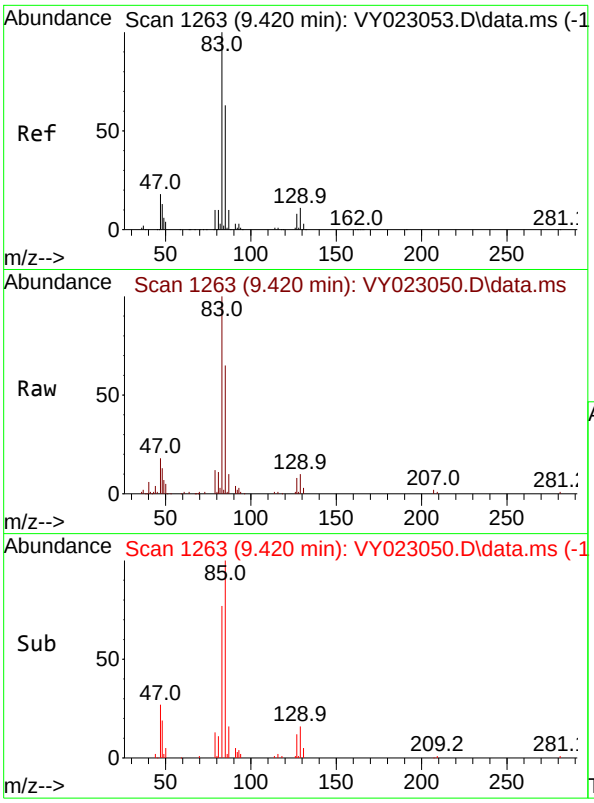




#46
Dibromomethane
Concen: 4.590 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 93 Resp: 15033

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 86.0 | 66.5 | 99.7 |
| 174 | 106.0 | 81.8 | 122.8 |



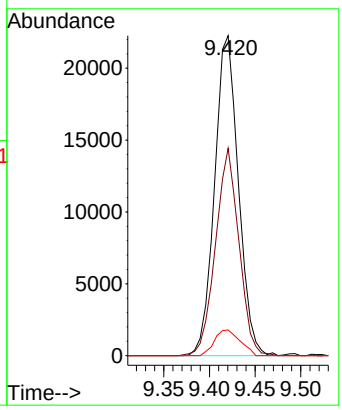


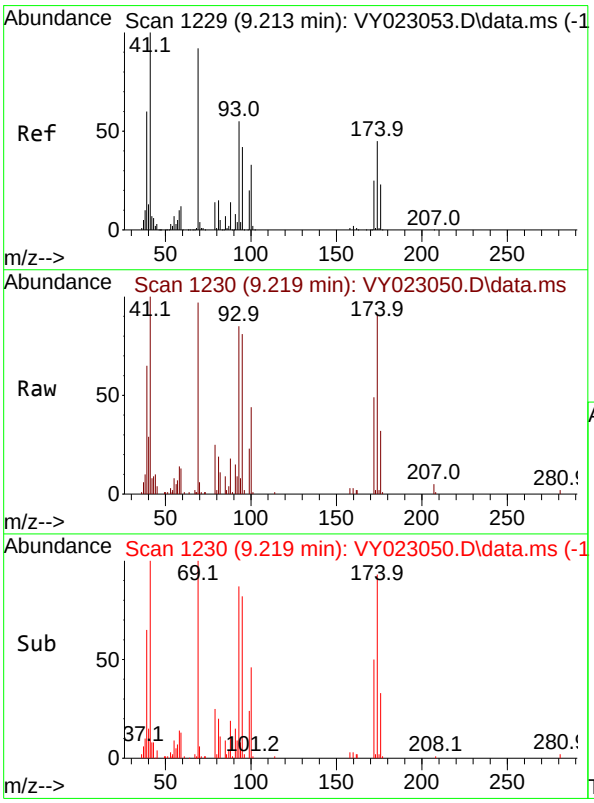

#47
Bromodichloromethane
Concen: 4.785 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 83 Resp: 40327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.8 | 50.2 | 75.4 |
| 127 | 8.1 | 6.6 | 10.0 |

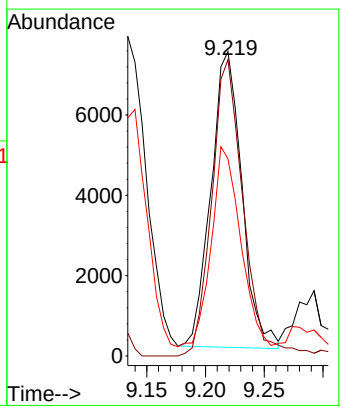


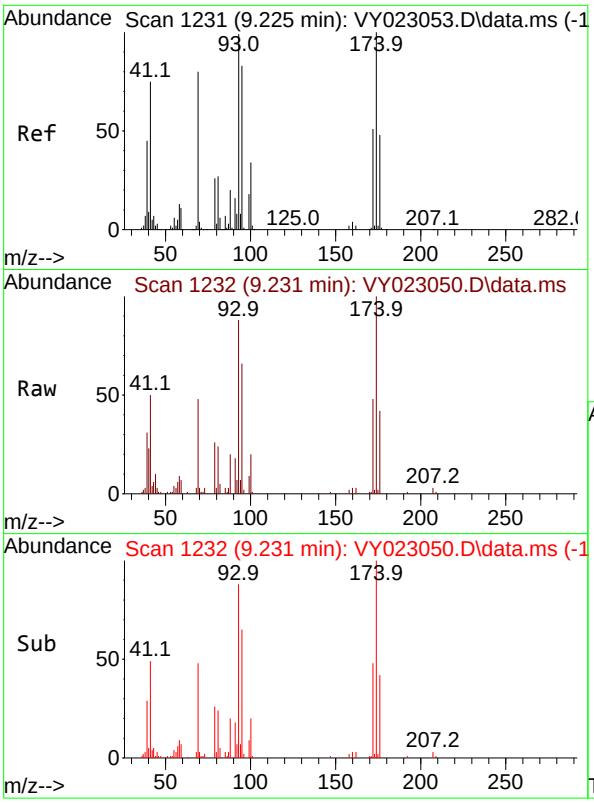




#48
Methyl methacrylate
Concen: 4.122 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 41 Resp: 13477

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 102.1 | 73.2 | 109.8 |
| 39 | 65.2 | 47.0 | 70.4 |



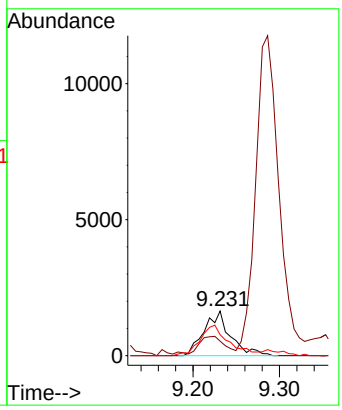


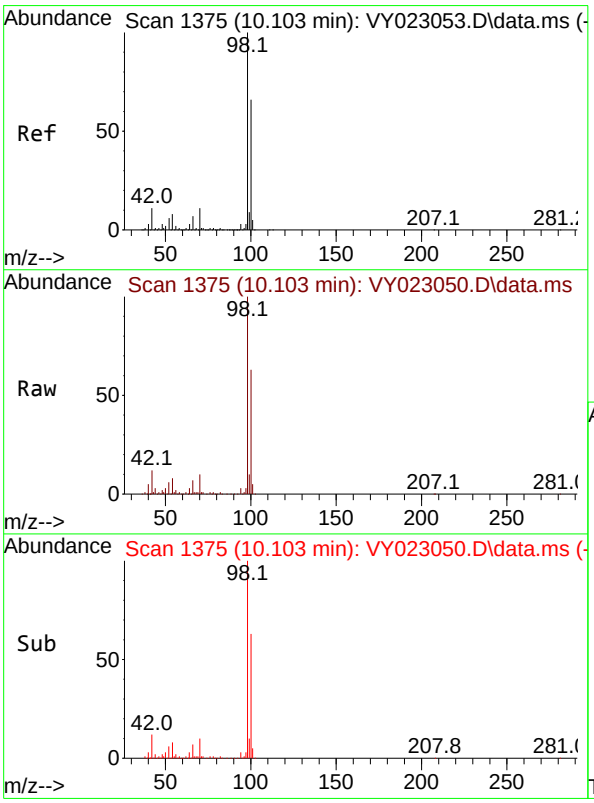

#49
1,4-Dioxane
Concen: 89.939 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 88 Resp: 3454

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 38.3 | 24.3 | 36.5# |
| 58 | 74.4 | 55.4 | 83.0 |

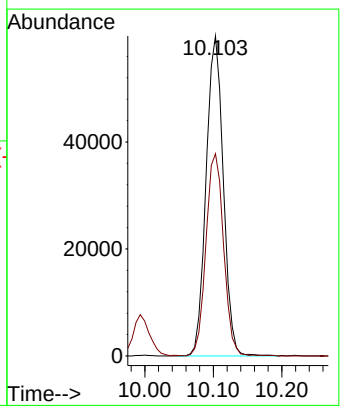


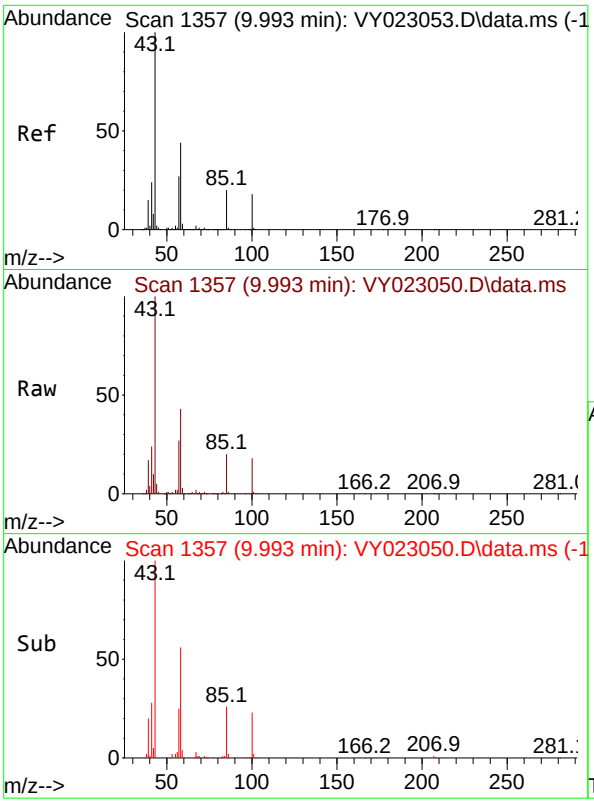




#50
Toluene-d8
Concen: 4.924 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 98 Resp: 104144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.1 | 52.3 | 78.5 |



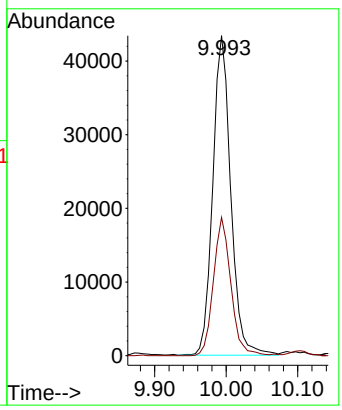


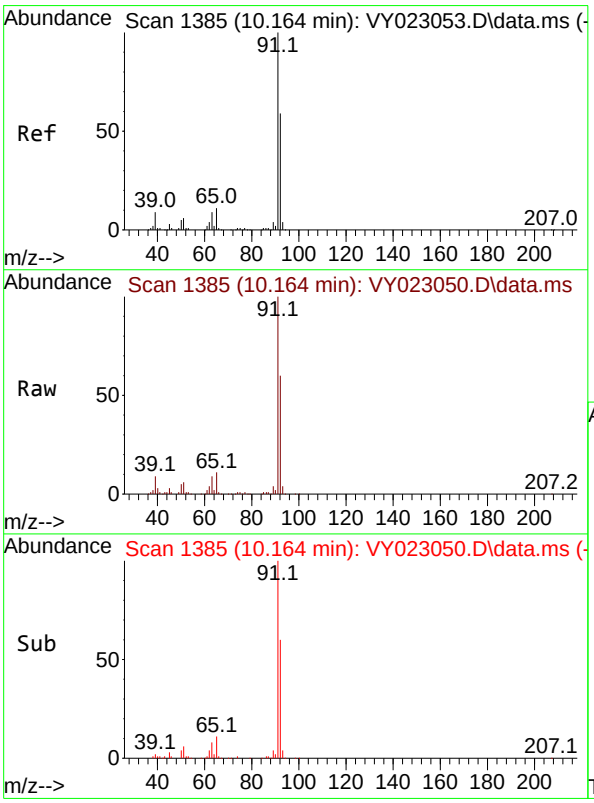

#51
4-Methyl-2-Pentanone
Concen: 21.535 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 43 Resp: 75891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 41.9 | 33.5 | 50.3 |

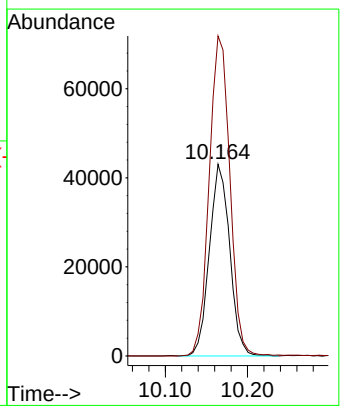


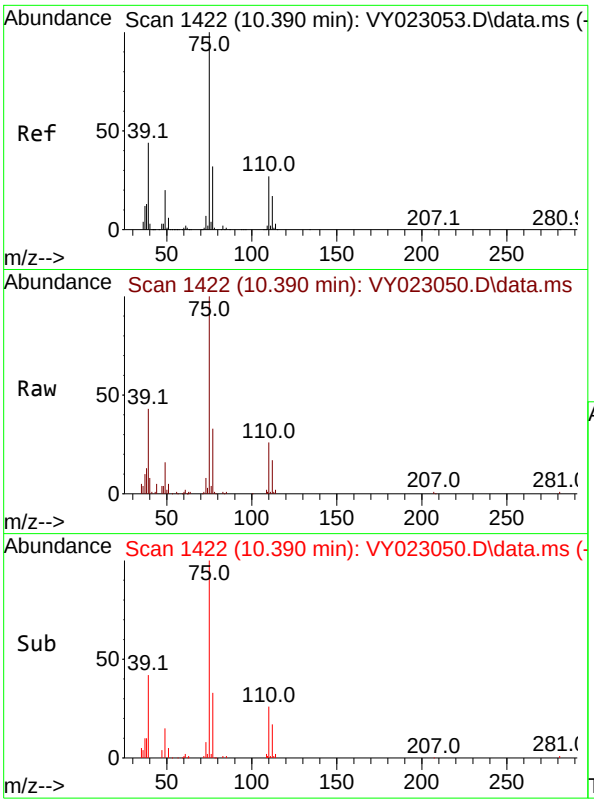




#52
Toluene
Concen: 4.692 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 92 Resp: 73910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 170.1 | 136.4 | 204.6 |



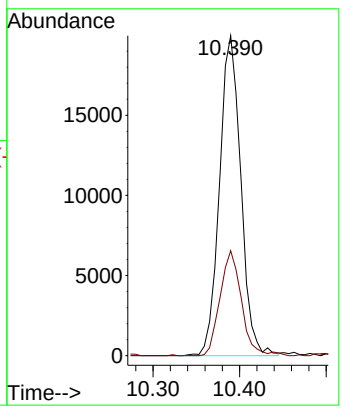


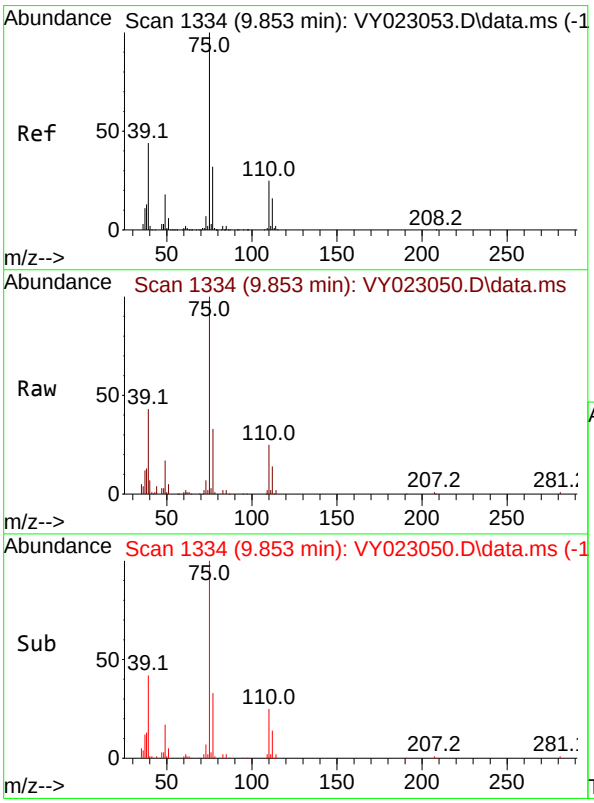

#53
t-1,3-Dichloropropene
Concen: 4.475 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 75 Resp: 34154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.8 | 25.7 | 38.5 |

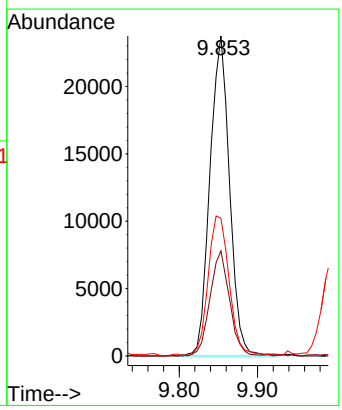


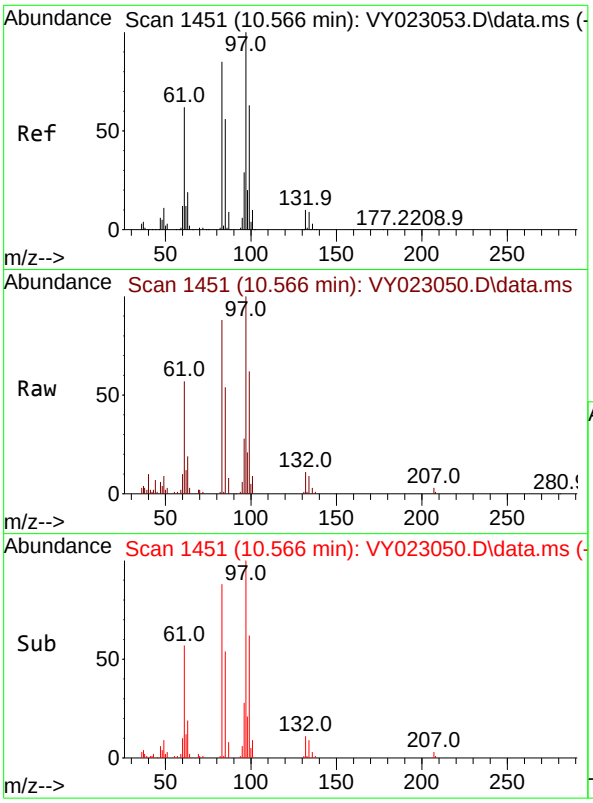




#54
cis-1,3-Dichloropropene
Concen: 4.579 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 75 Resp: 41326

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.9 | 25.4 | 38.0 |
| 39 | 42.5 | 35.6 | 53.4 |



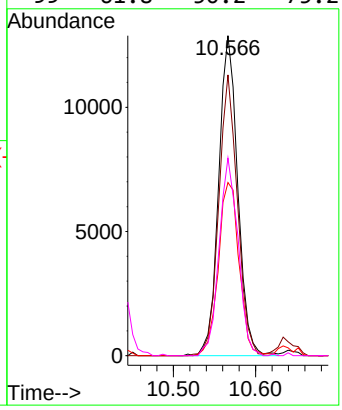


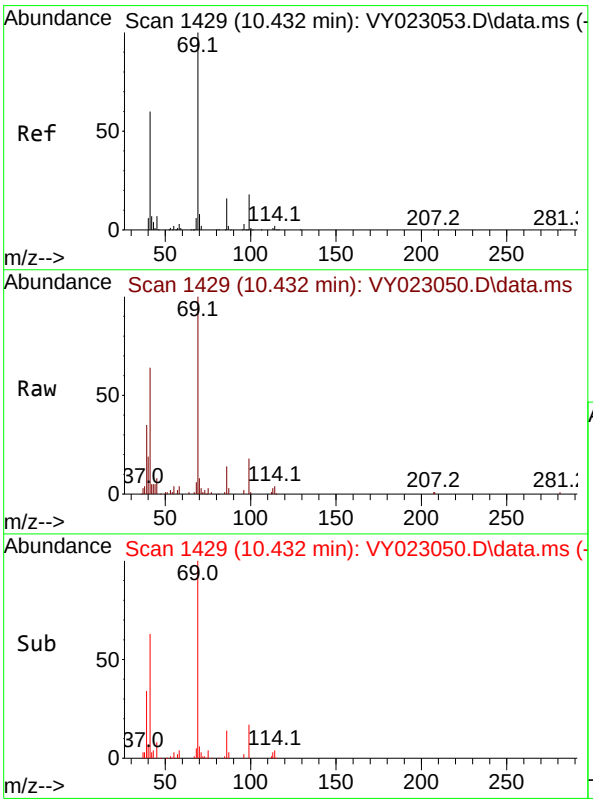

#55
1,1,2-Trichloroethane
Concen: 4.745 ug/l
RT: 10.566 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 97 Resp: 20795

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 87.8 | 67.7 | 101.5 |
| 85 | 54.1 | 44.5 | 66.7 |
| 99 | 61.8 | 50.2 | 75.2 |

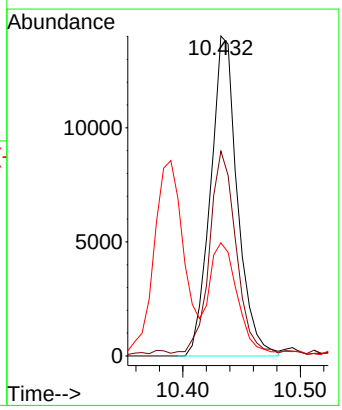


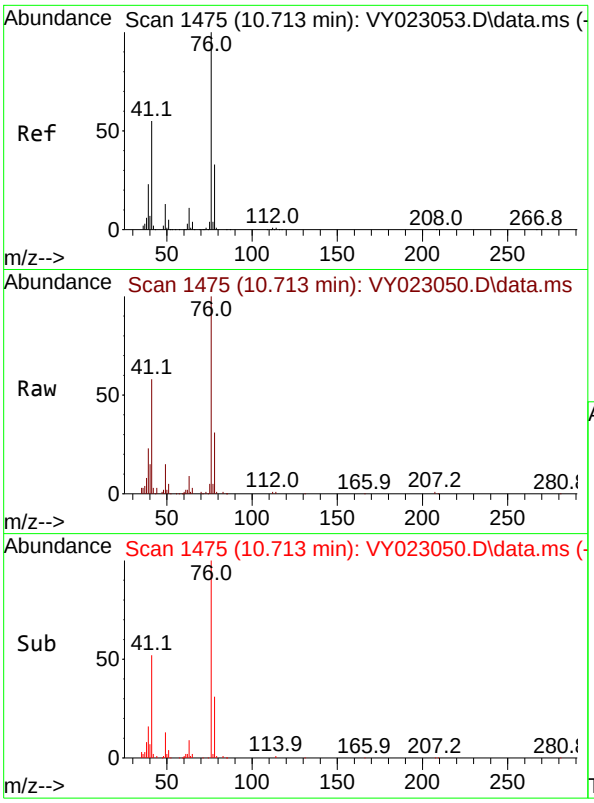




#56
Ethyl methacrylate
Concen: 3.990 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 69 Resp: 22376

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 61.6 | 48.6 | 72.8 |
| 39 | 34.3 | 27.0 | 40.4 |



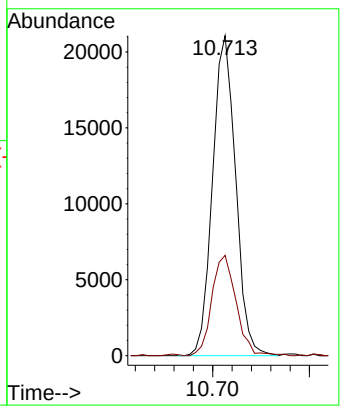


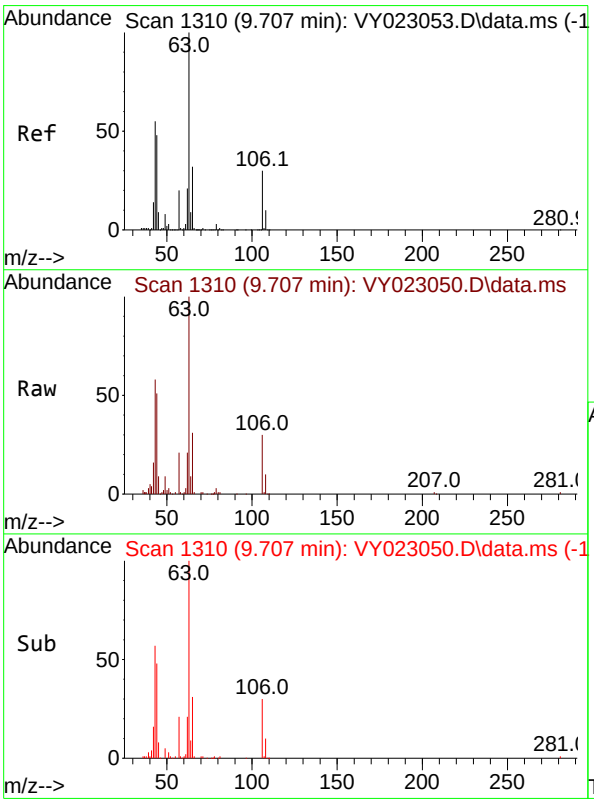

#57
1,3-Dichloropropane
Concen: 4.687 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 76 Resp: 34835

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 33.1 | 26.0 | 39.0 |

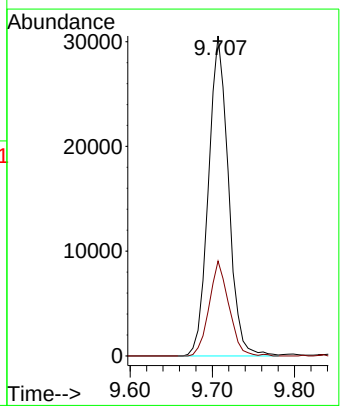


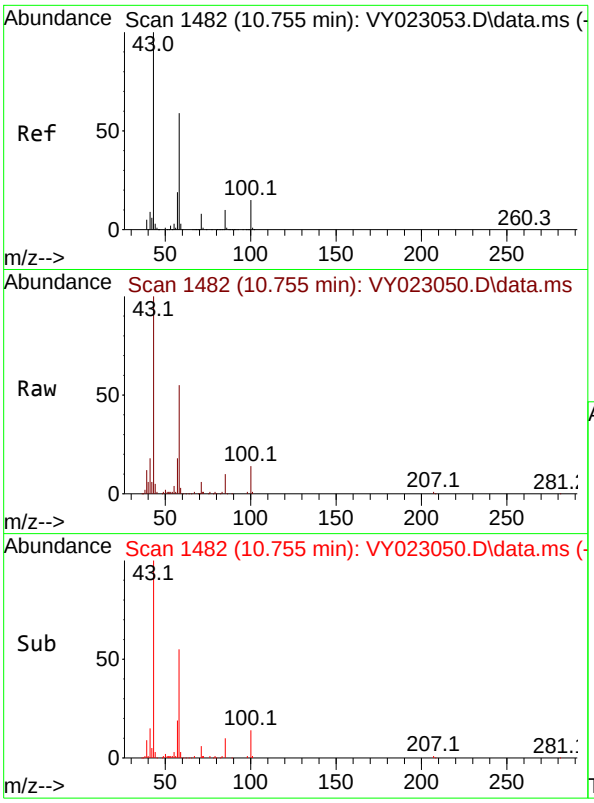




#58
2-Chloroethyl Vinyl ether
Concen: 19.500 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 63 Resp: 51585

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 29.2 | 23.2 | 34.8 |



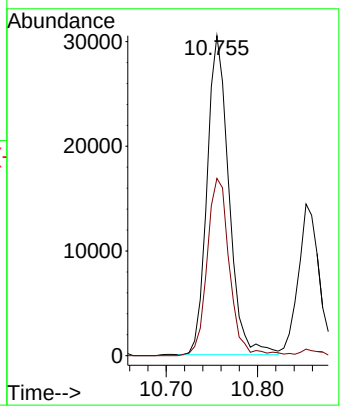


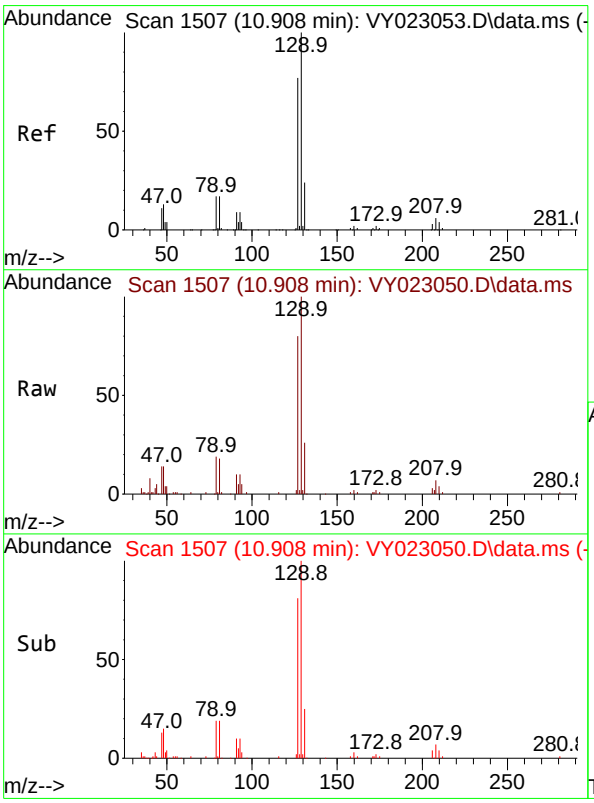

#59
2-Hexanone
Concen: 21.088 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 43 Resp: 50604

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 56.9 | 29.5 | 88.5 |

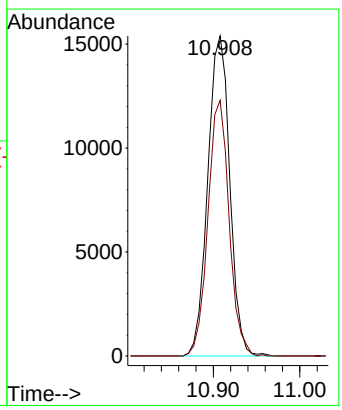


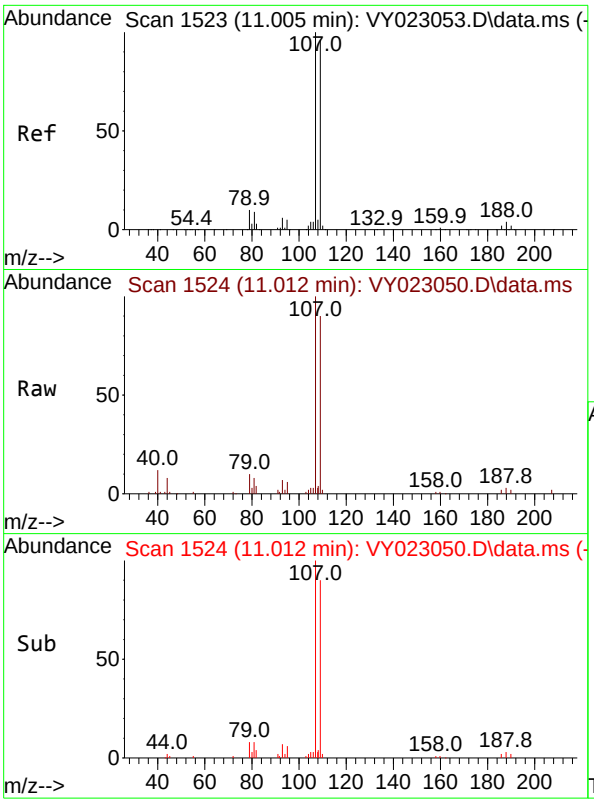




#60
Dibromochloromethane
Concen: 4.693 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:129 Resp: 27141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.0 | 38.5 | 115.5 |



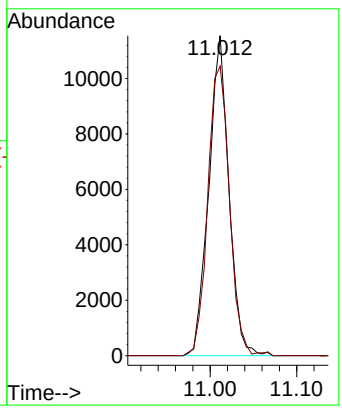


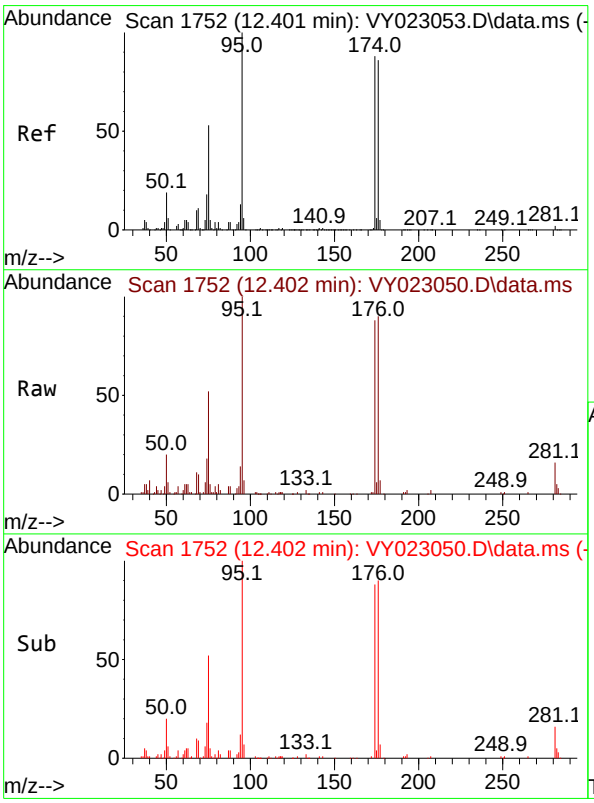

#61
1,2-Dibromoethane
Concen: 4.528 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:107 Resp: 18652

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 97.4 | 75.6 | 113.4 |

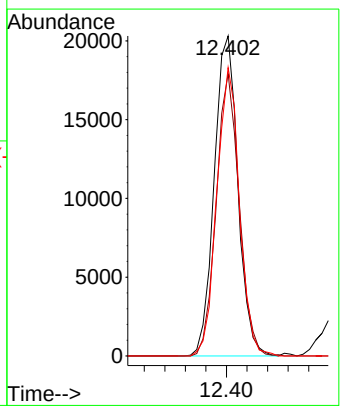


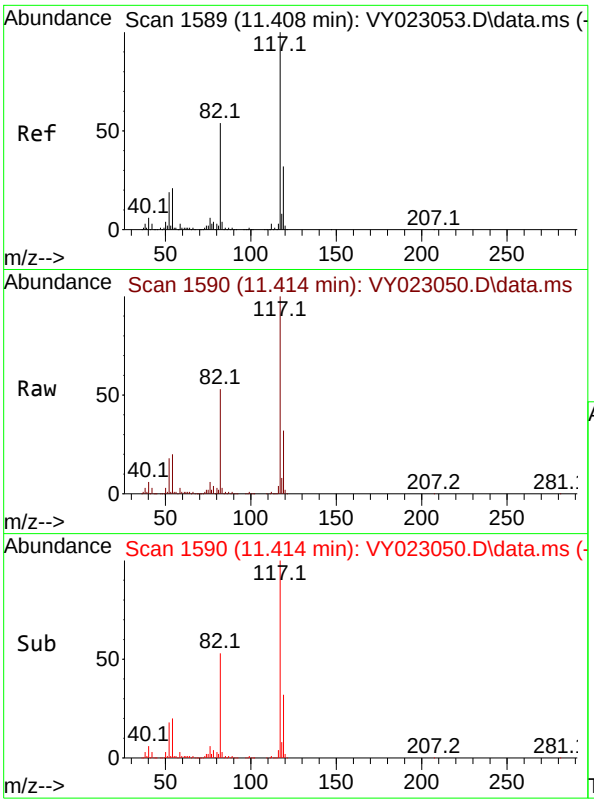




#62
4-Bromofluorobenzene
Concen: 4.766 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 95 Resp: 32420

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 85.5 | 0.0 | 171.6 |
| 176 | 86.1 | 0.0 | 167.6 |



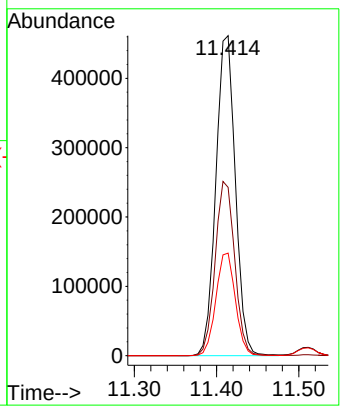


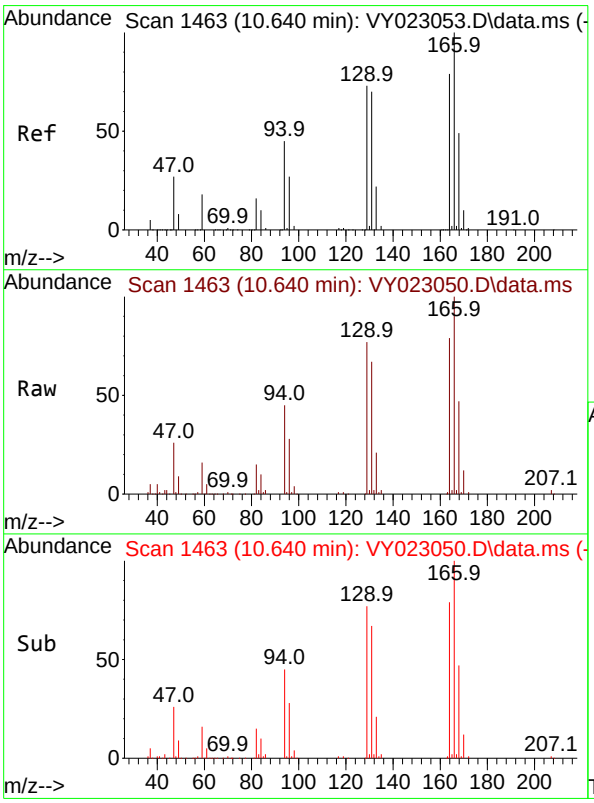

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:117 Resp: 759914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 52.6 | 43.4 | 65.0 |
| 119 | 32.1 | 25.6 | 38.4 |

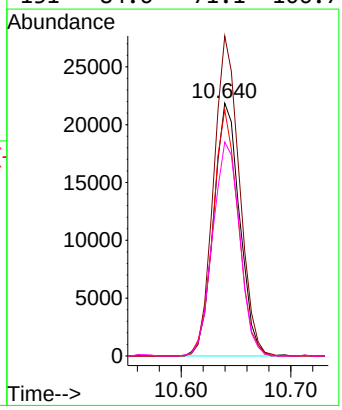


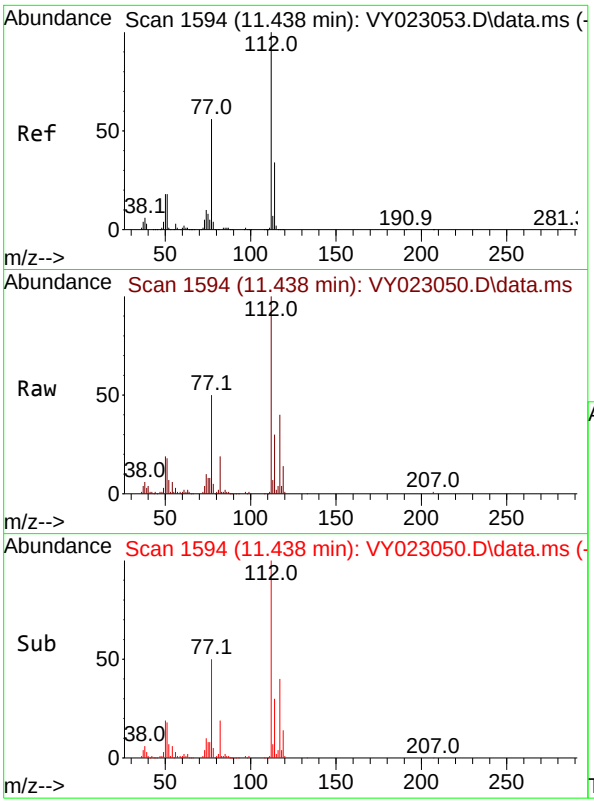




#64
Tetrachloroethene
Concen: 5.336 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:164 Resp: 36210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 126.6 | 101.1 | 151.7 |
| 129 | 97.4 | 74.0 | 111.0 |
| 131 | 84.6 | 71.1 | 106.7 |



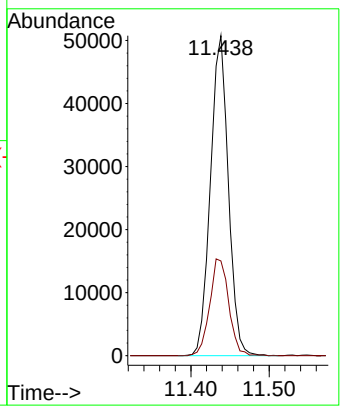


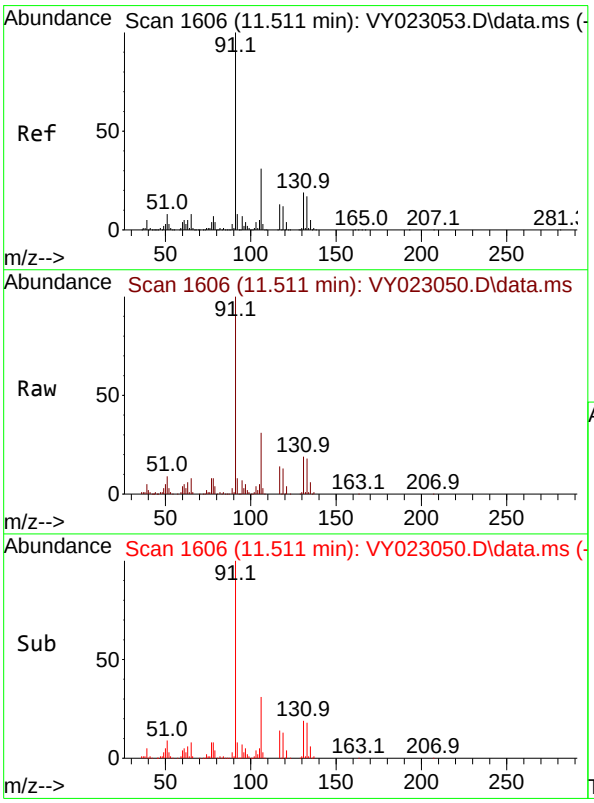

#65
Chlorobenzene
Concen: 4.922 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:112 Resp: 80684

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 29.6 | 27.0 | 40.4 |

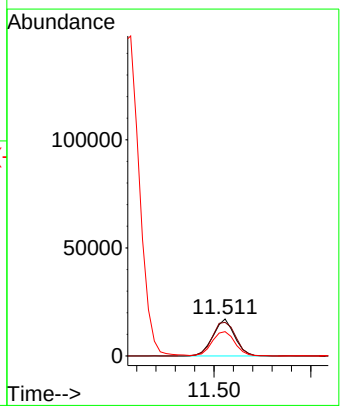


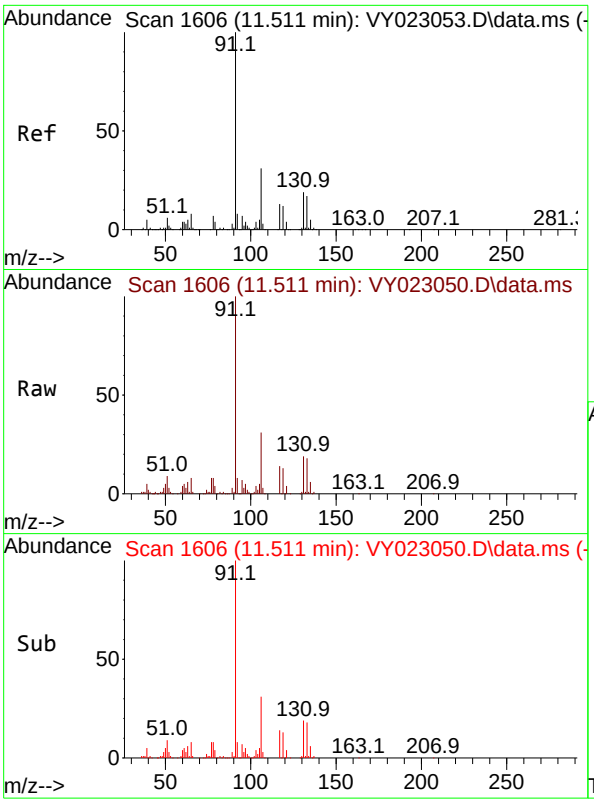




#66
1,1,1,2-Tetrachloroethane
Concen: 4.745 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:131 Resp: 26397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 100.6 | 46.9 | 140.6 |
| 119 | 70.6 | 33.2 | 99.6 |



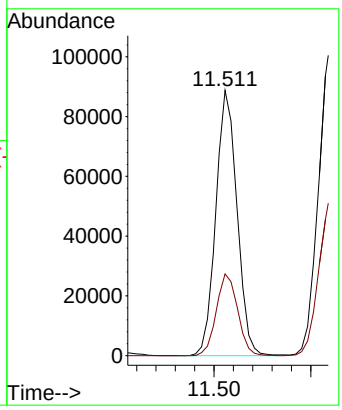


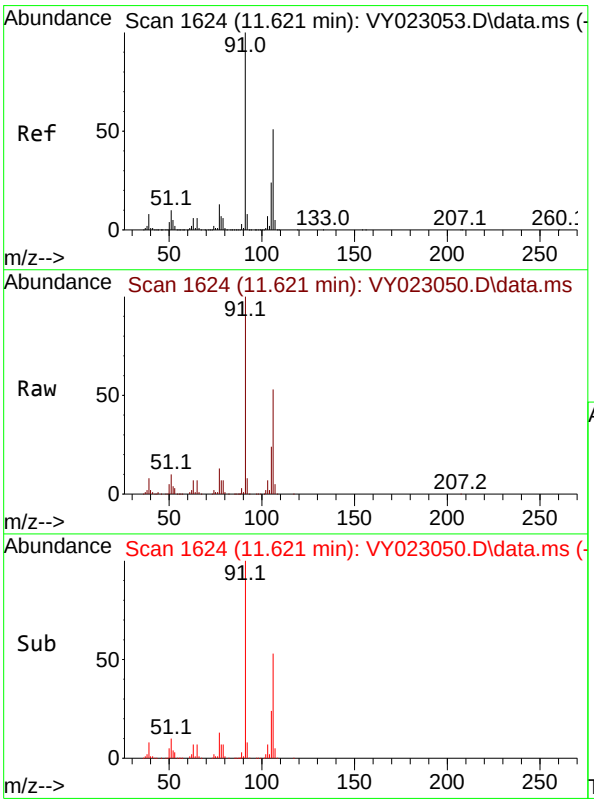

#67
Ethyl Benzene
Concen: 4.781 ug/l
RT: 11.511 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 91 Resp: 134854

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.8 | 25.0 | 37.4 |

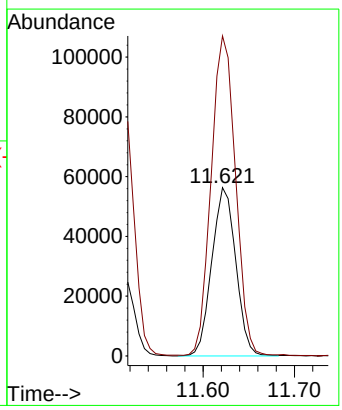


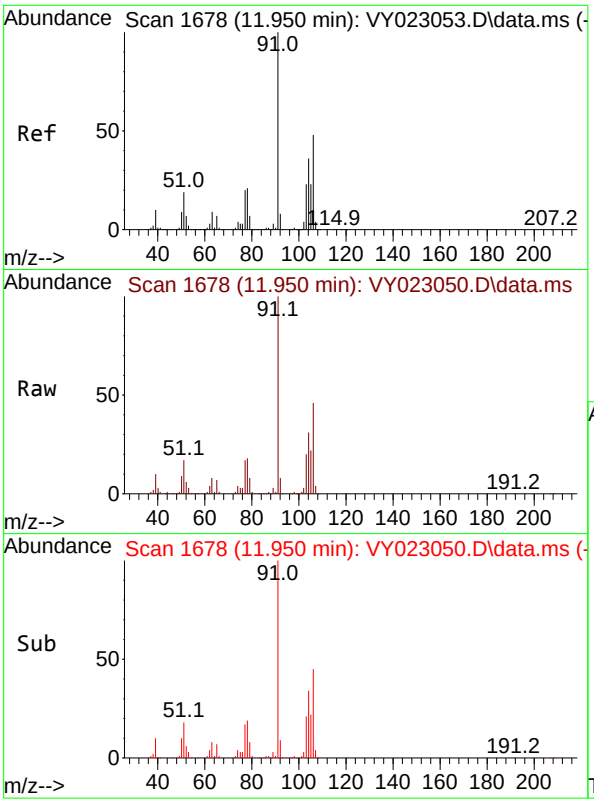




#68
m/p-Xylenes
Concen: 9.329 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:106 Resp: 102783

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 194.0 | 158.6 | 238.0 |



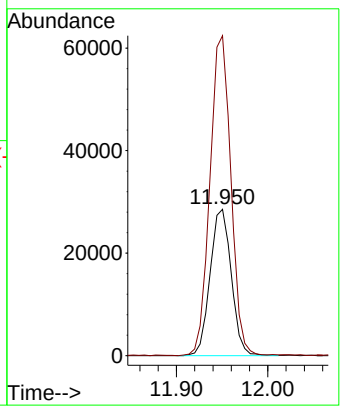


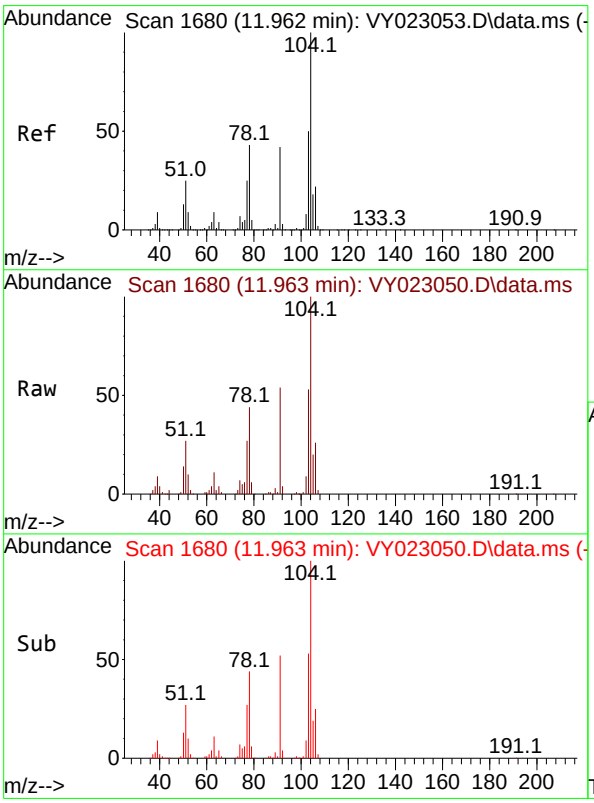

#69
o-Xylene
Concen: 4.453 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:106 Resp: 45944

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 216.3 | 103.2 | 309.4 |

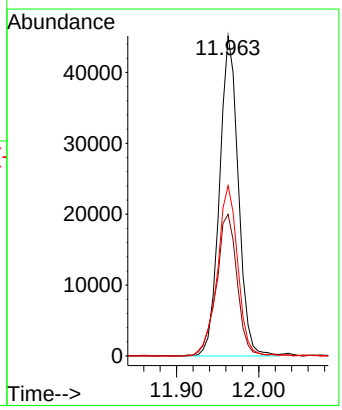


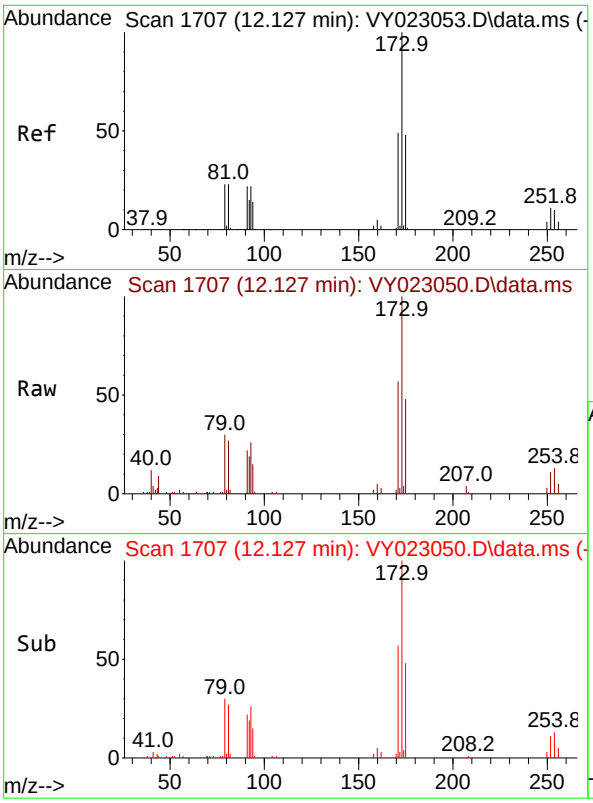




#70
Styrene
Concen: 4.255 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:104 Resp: 71801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 48.8 | 38.5 | 57.7 |
| 103 | 57.6 | 43.7 | 65.5 |



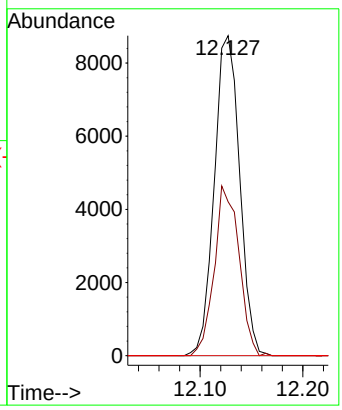


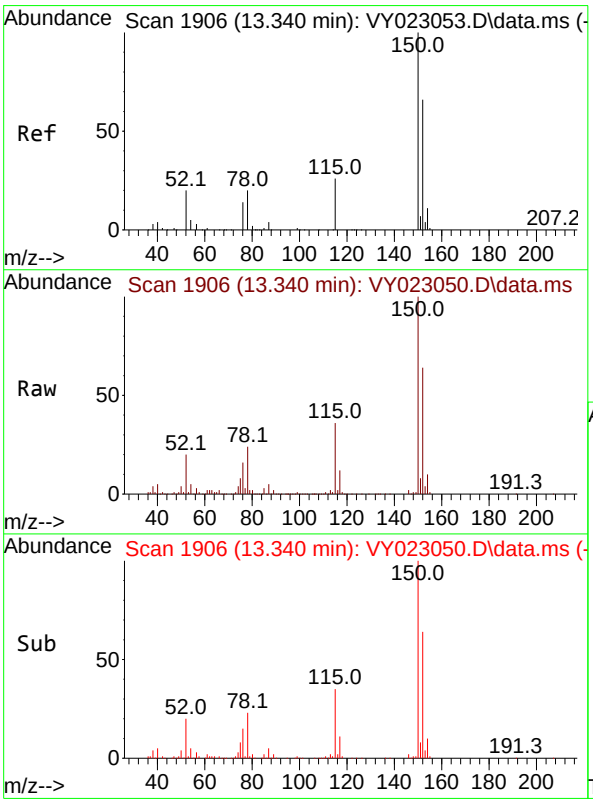

#71
Bromoform
Concen: 4.599 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:173 Resp: 14954

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 51.7 | 23.9 | 71.7 |
| 254 | 0.0 | 0.1 | 0.1# |

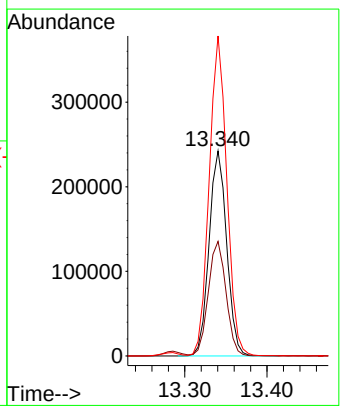


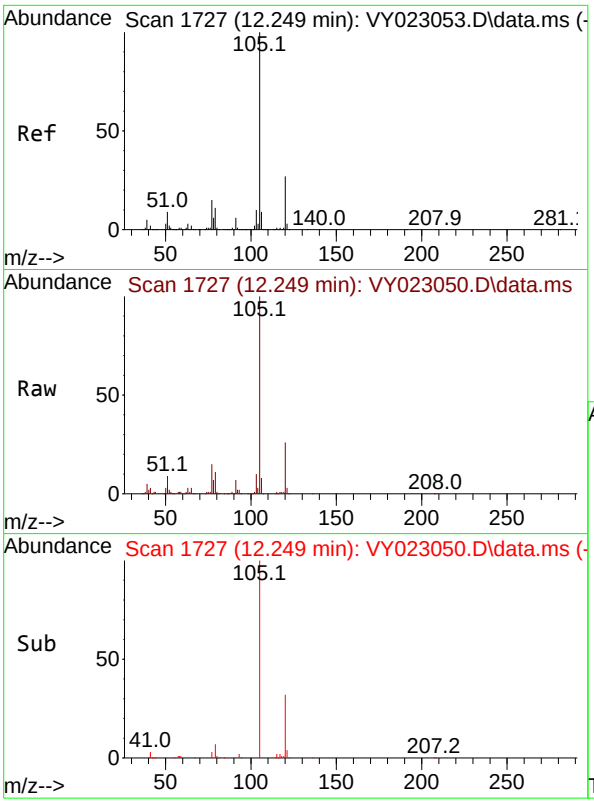




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:152 Resp: 360397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 56.4 | 28.2 | 84.6 |
| 150 | 155.7 | 0.0 | 348.0 |



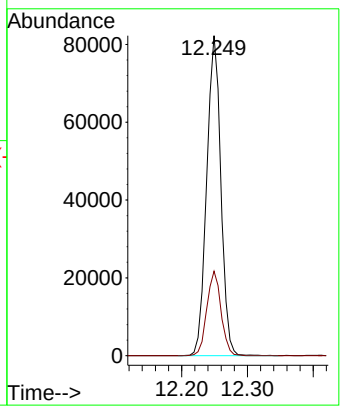


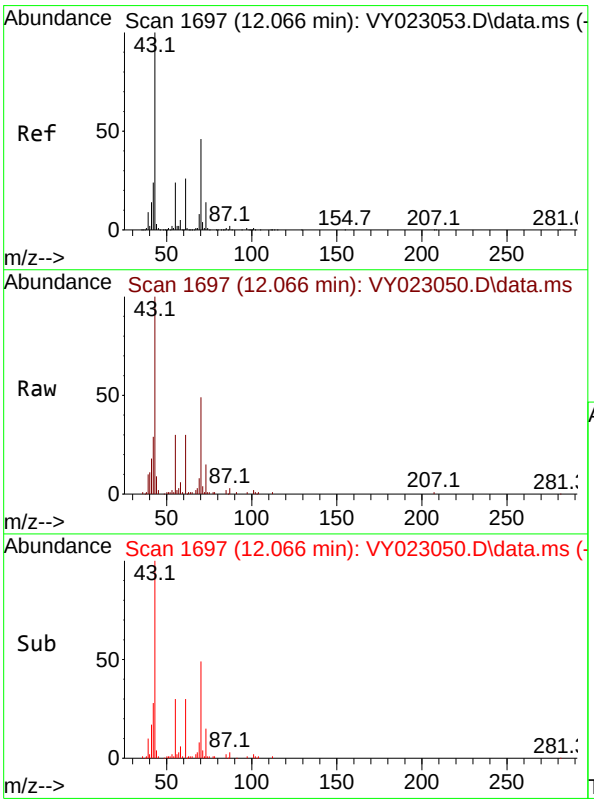

#73
Isopropylbenzene
Concen: 4.845 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:105 Resp: 123246

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.5 | 13.4 | 40.2 |

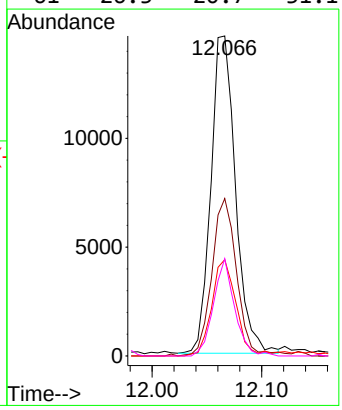


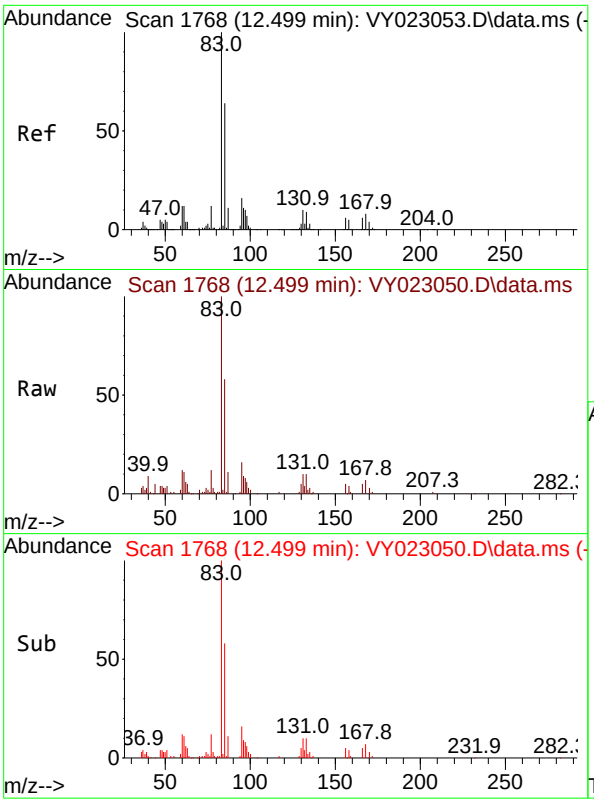




#74
N-amyl acetate
Concen: 4.232 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 43 Resp: 22829

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 50.0 | 37.5 | 56.3 |
| 55 | 29.9 | 20.7 | 31.1 |
| 61 | 26.3 | 20.7 | 31.1 |



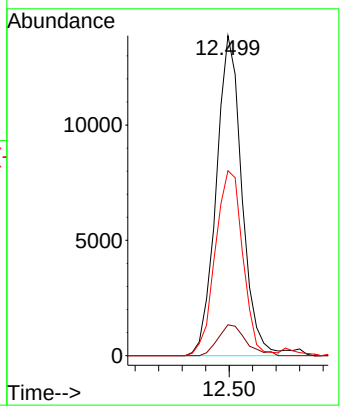


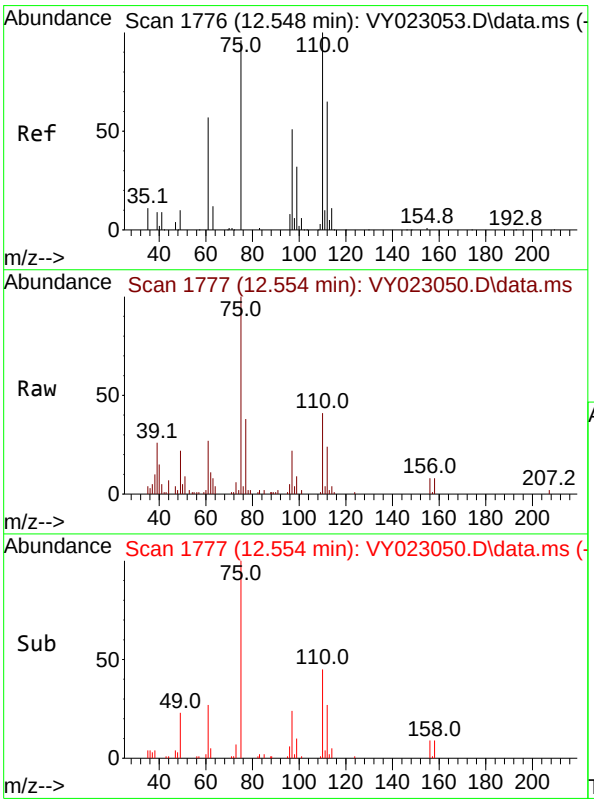

#75
1,1,2,2-Tetrachloroethane
Concen: 4.848 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 83 Resp: 21057

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.5 | 5.1 | 15.3 |
| 85 | 62.2 | 31.8 | 95.3 |

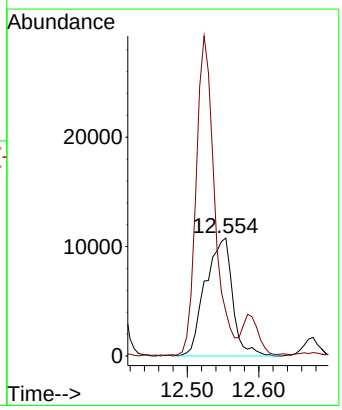


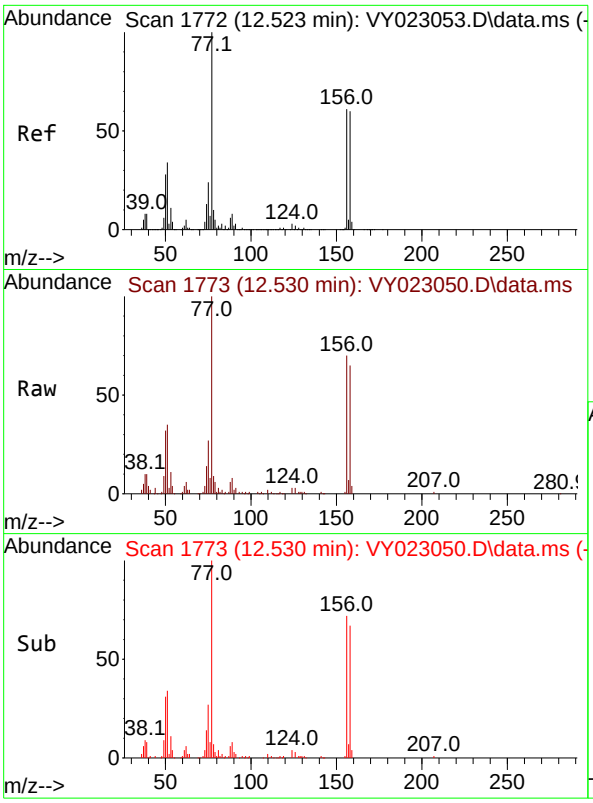




#76
1,2,3-Trichloropropane
Concen: 8.152 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 75 Resp: 28374

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |



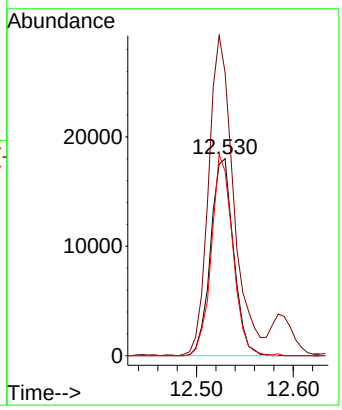


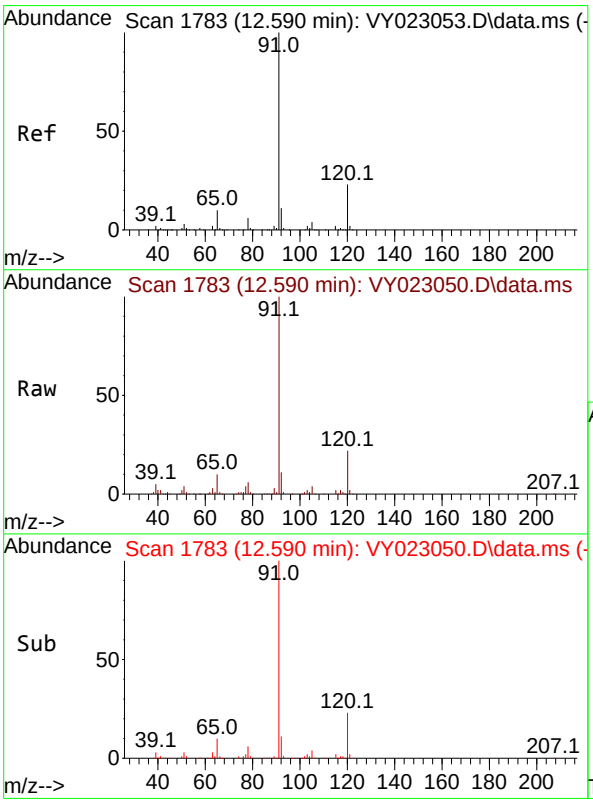

#77
Bromobenzene
Concen: 4.891 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:156 Resp: 29681

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 176.7 | 88.1 | 264.4 |
| 158 | 95.4 | 48.0 | 144.0 |

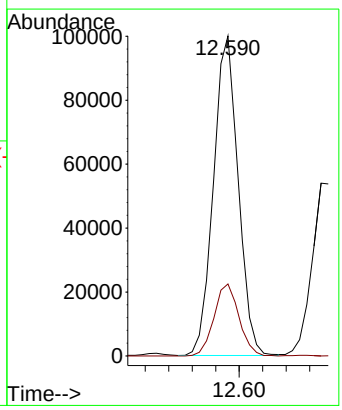


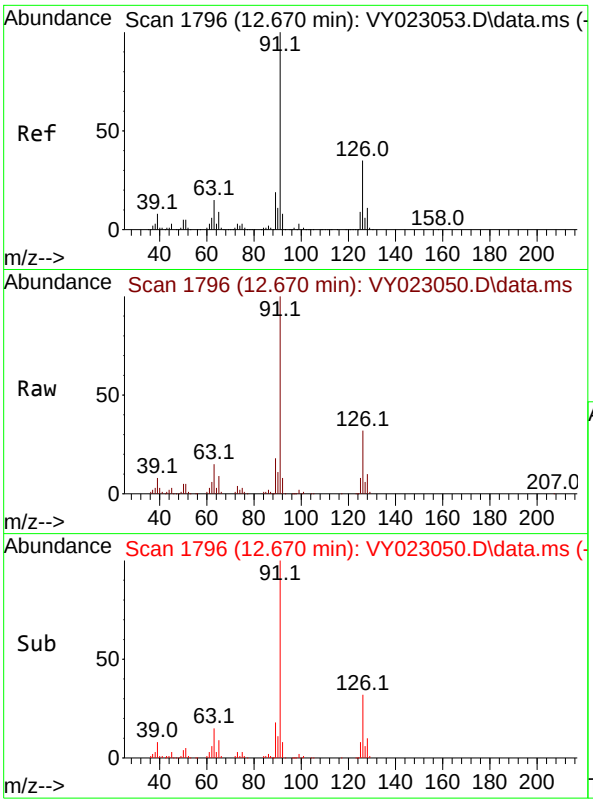




#78
n-propylbenzene
Concen: 4.822 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 91 Resp: 146043

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.7 | 11.5 | 34.5 |



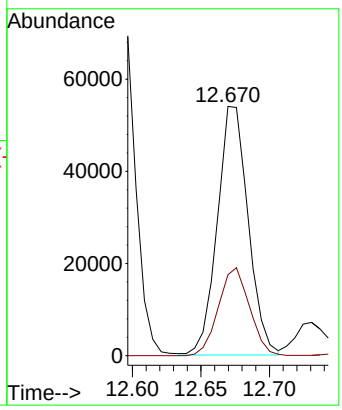


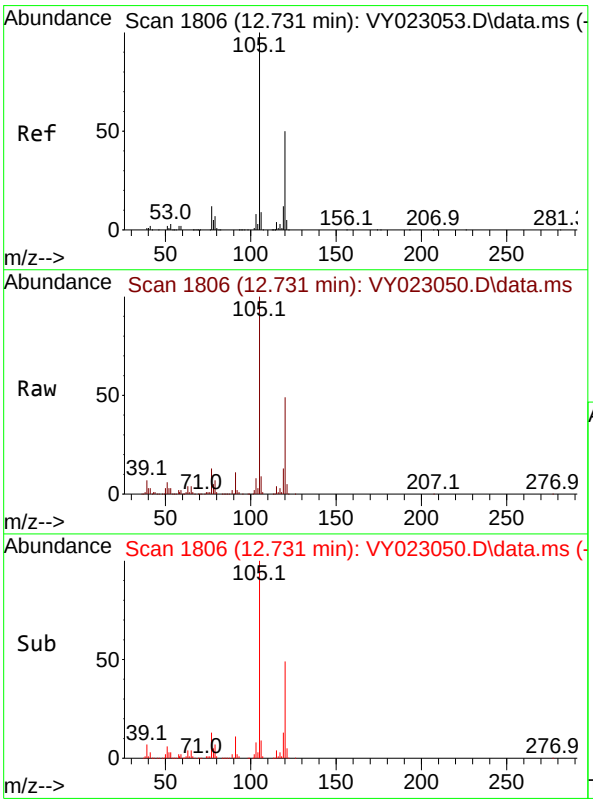

#79
2-Chlorotoluene
Concen: 4.880 ug/l
RT: 12.670 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 91 Resp: 84671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.5 | 17.4 | 52.3 |

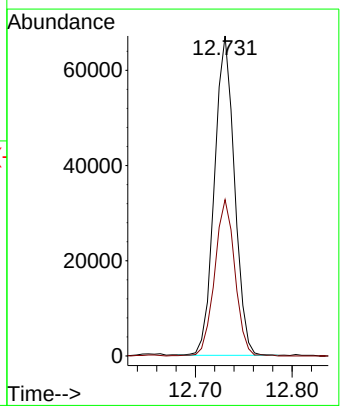


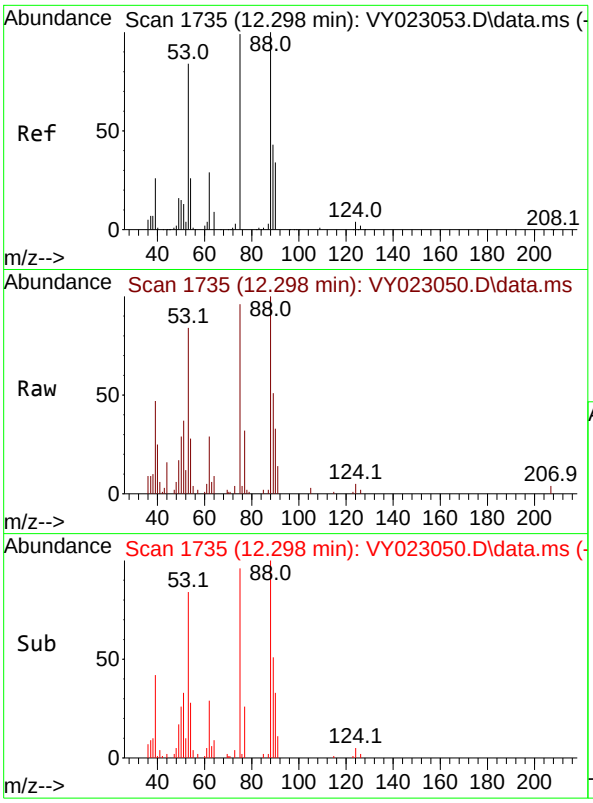




#80
1,3,5-Trimethylbenzene
Concen: 4.685 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:105 Resp: 96308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.6 | 24.8 | 74.4 |



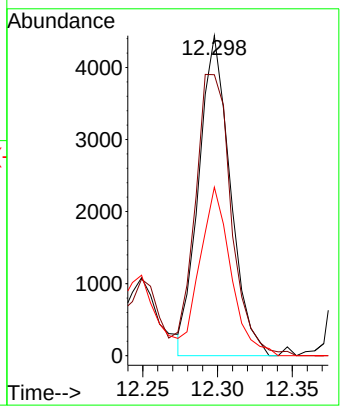


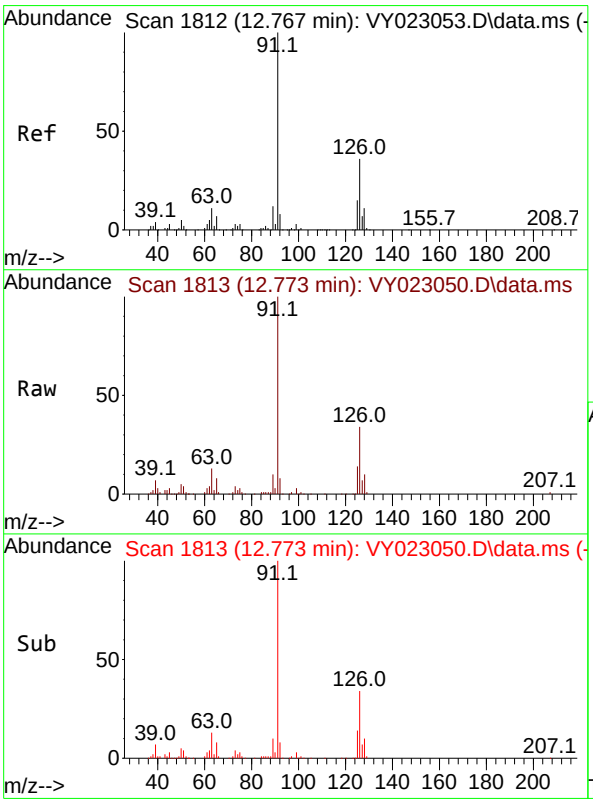

#81
trans-1,4-Dichloro-2-butene
Concen: 4.533 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 75 Resp: 6514

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 101.3 | 70.8 | 106.2 |
| 89 | 51.7 | 38.1 | 57.1 |

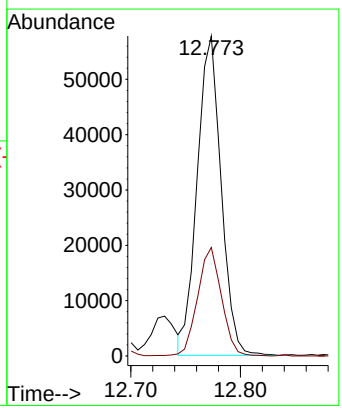


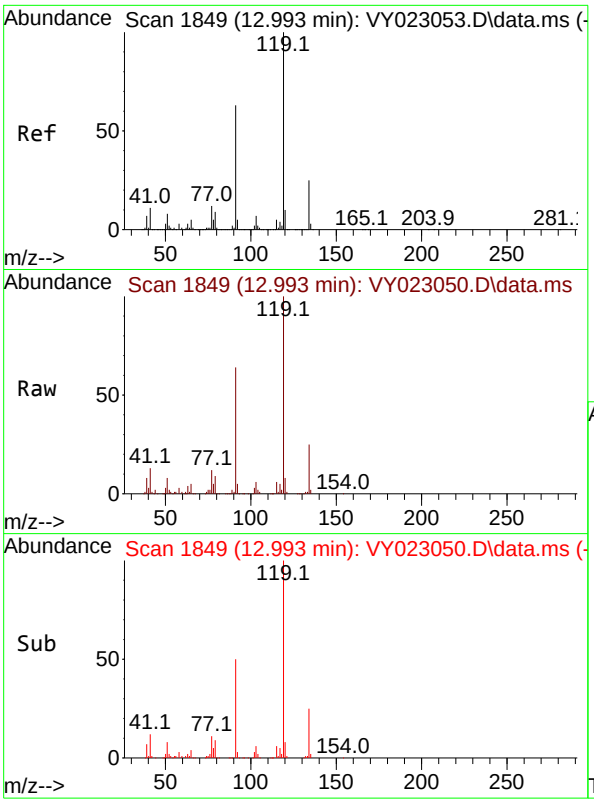




#82
4-Chlorotoluene
Concen: 4.859 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 91 Resp: 87454

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.0 | 17.3 | 52.0 |



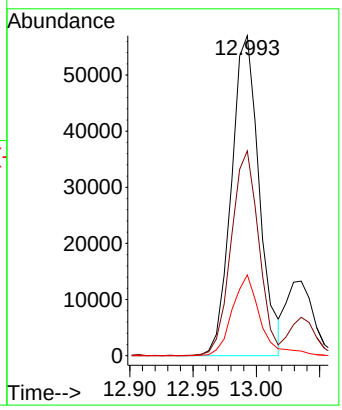


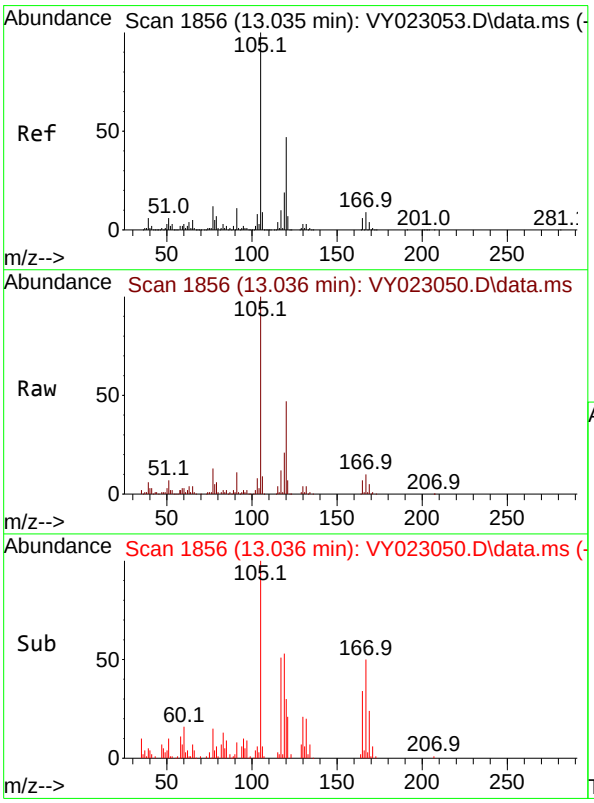

#83
tert-Butylbenzene
Concen: 4.712 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:119 Resp: 87496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 63.6 | 31.6 | 94.8 |
| 134 | 25.5 | 12.9 | 38.7 |

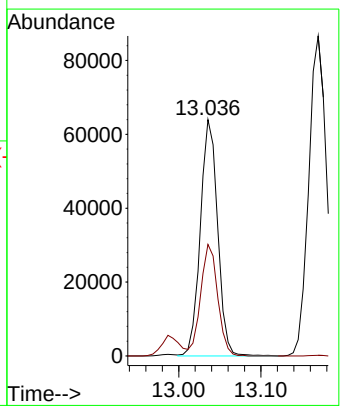


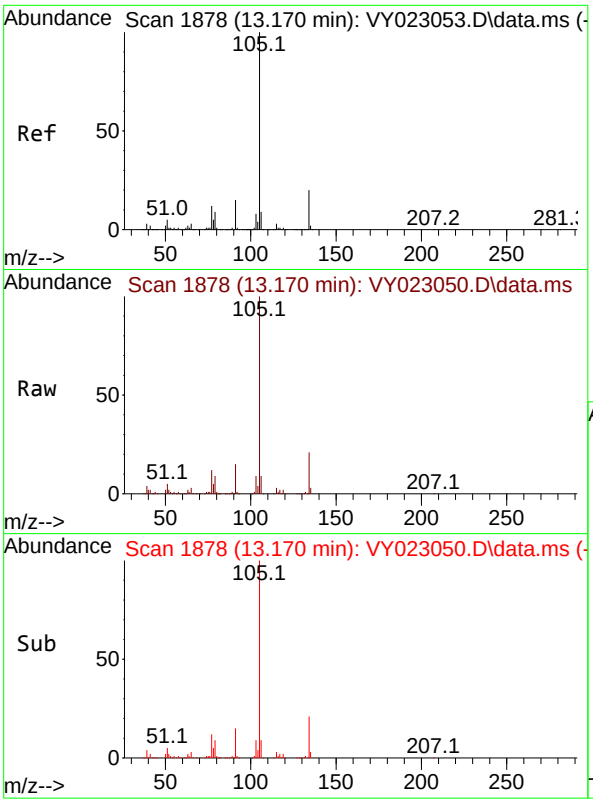




#84
1,2,4-Trimethylbenzene
Concen: 4.571 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:105 Resp: 93551

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.3 | 23.0 | 69.0 |



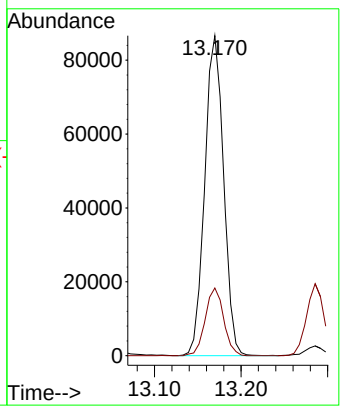


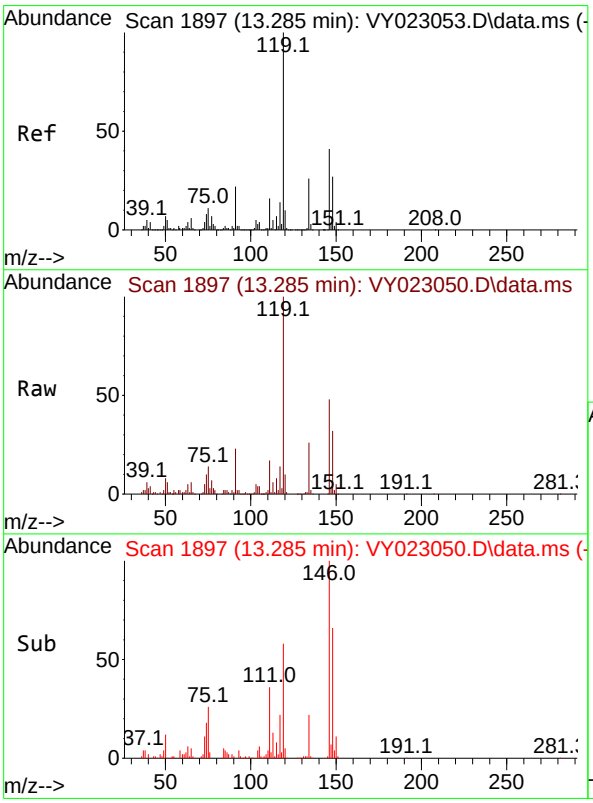

#85
sec-Butylbenzene
Concen: 4.806 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:105 Resp: 131079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.7 | 10.2 | 30.4 |

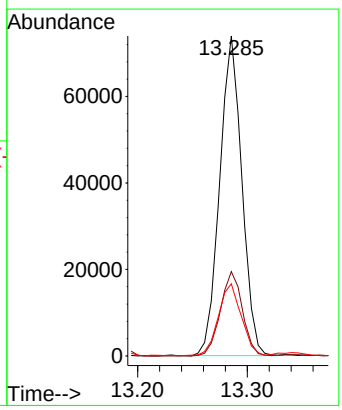


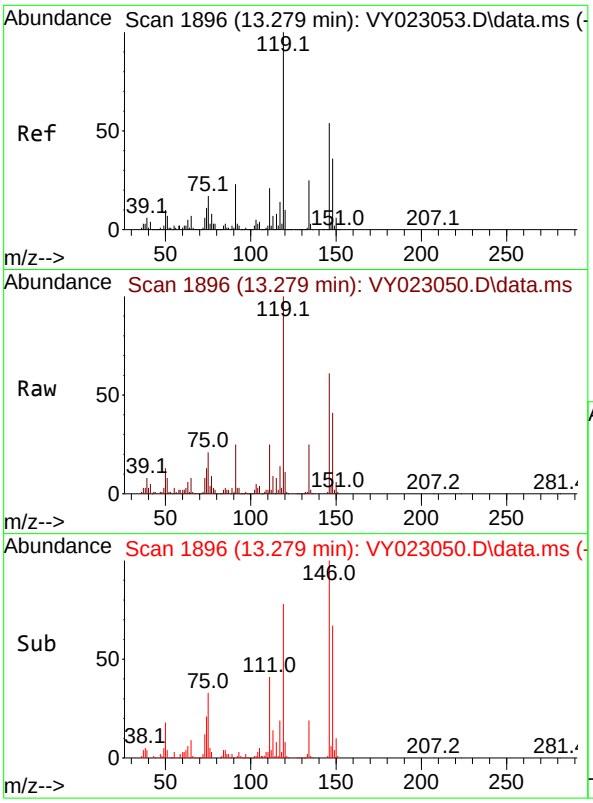




#86
p-Isopropyltoluene
Concen: 4.582 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:119 Resp: 103731

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.2 | 13.2 | 39.6 |
| 91 | 23.5 | 11.3 | 33.8 |



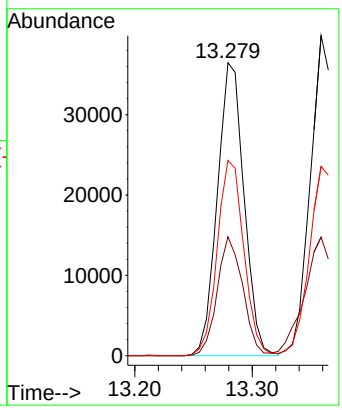


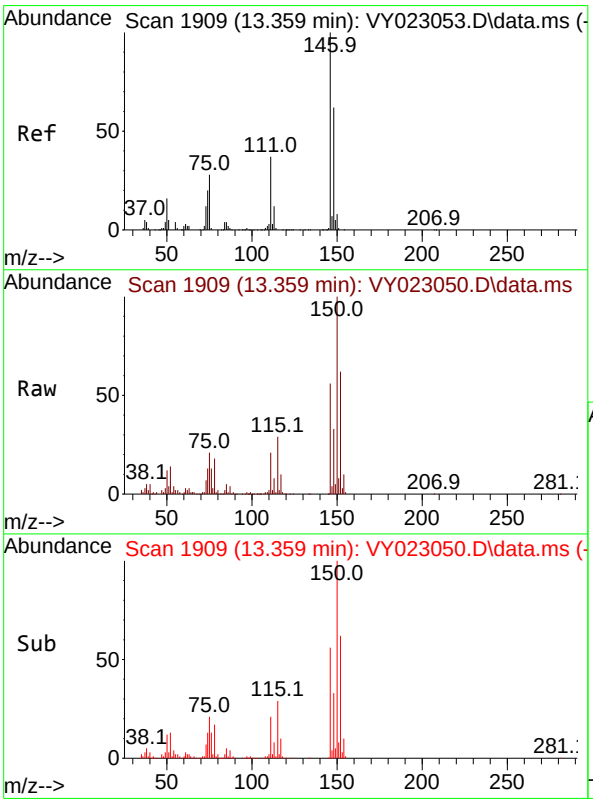

#87
1,3-Dichlorobenzene
Concen: 4.819 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:146 Resp: 57668

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.8 | 19.6 | 58.7 |
| 148 | 66.5 | 32.5 | 97.5 |

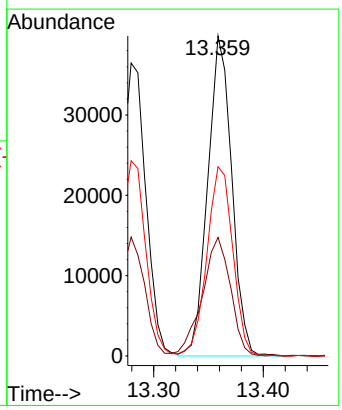


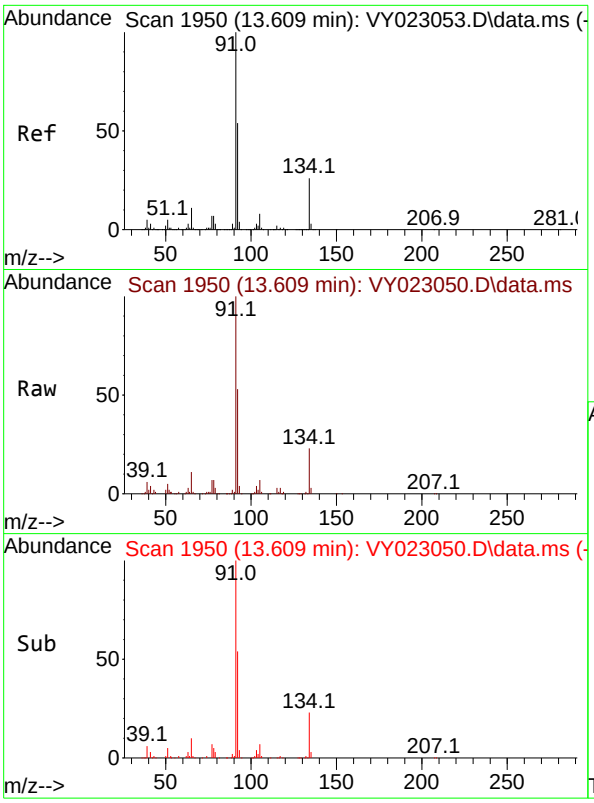




#88
1,4-Dichlorobenzene
Concen: 5.120 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:146 Resp: 60781

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.8 | 19.1 | 57.1 |
| 148 | 63.6 | 31.6 | 94.7 |



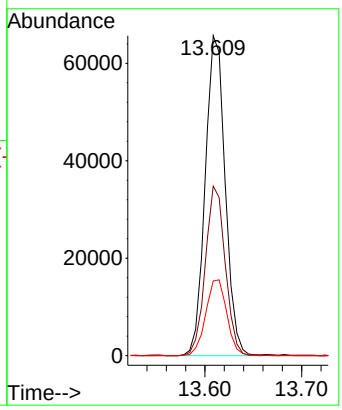


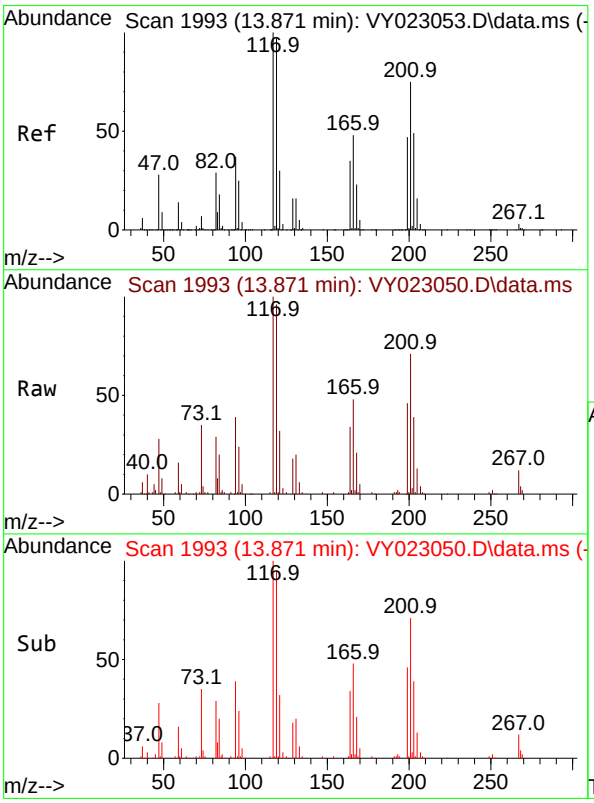

#89
n-Butylbenzene
Concen: 4.549 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 91 Resp: 94594

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.6 | 26.9 | 80.7 |
| 134 | 25.1 | 13.2 | 39.5 |

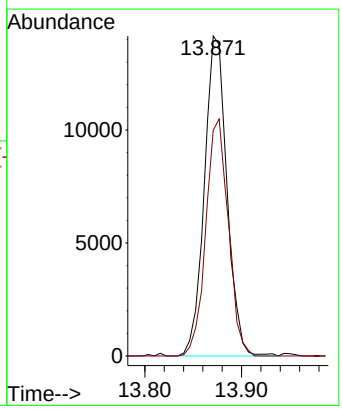


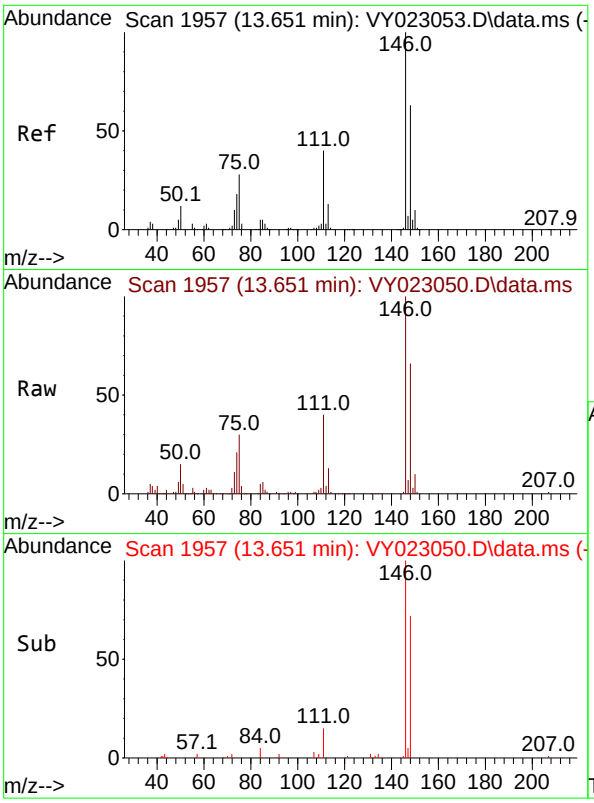




#90
Hexachloroethane
Concen: 4.958 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:117 Resp: 22980

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 74.0 | 38.4 | 115.1 |



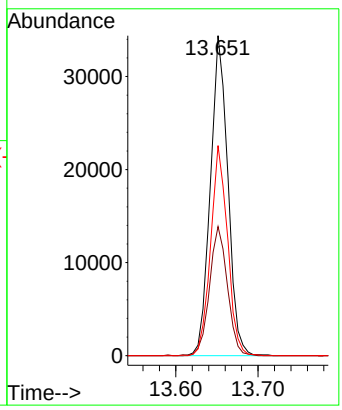


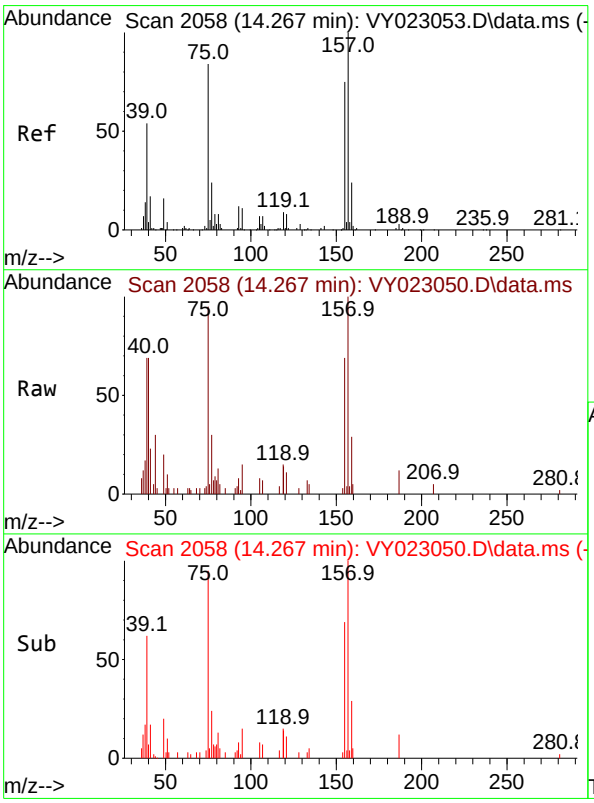

#91
1,2-Dichlorobenzene
Concen: 4.843 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:146 Resp: 50829

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.3 | 20.3 | 60.8 |
| 148 | 63.6 | 32.2 | 96.6 |

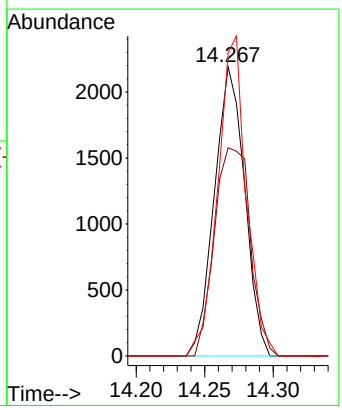


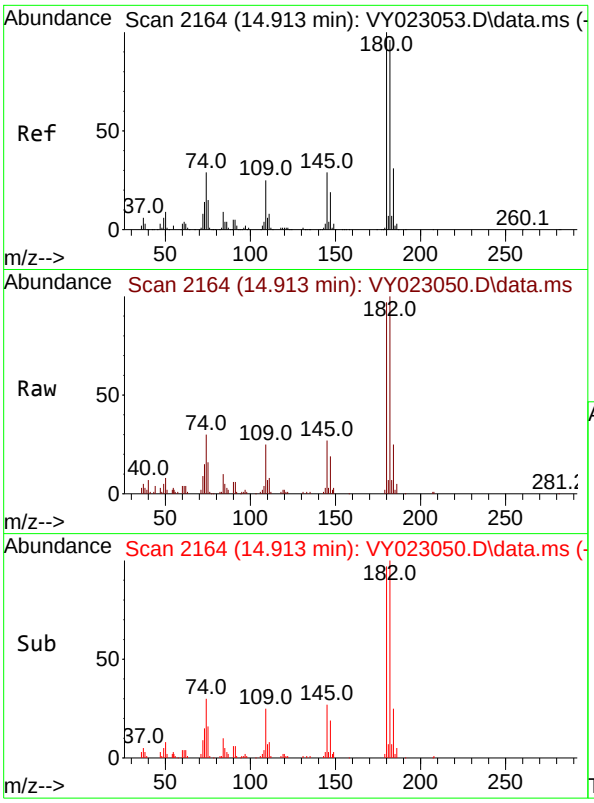




#92
1,2-Dibromo-3-Chloropropane
Concen: 4.982 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion: 75 Resp: 3369

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 85.3 | 43.9 | 131.6 |
| 157 | 103.8 | 57.2 | 171.6 |



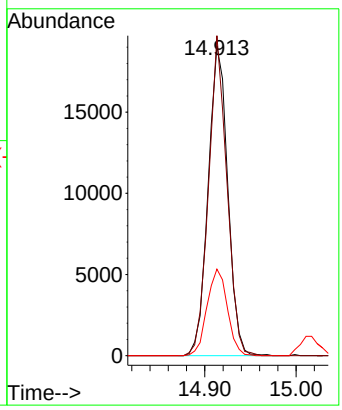


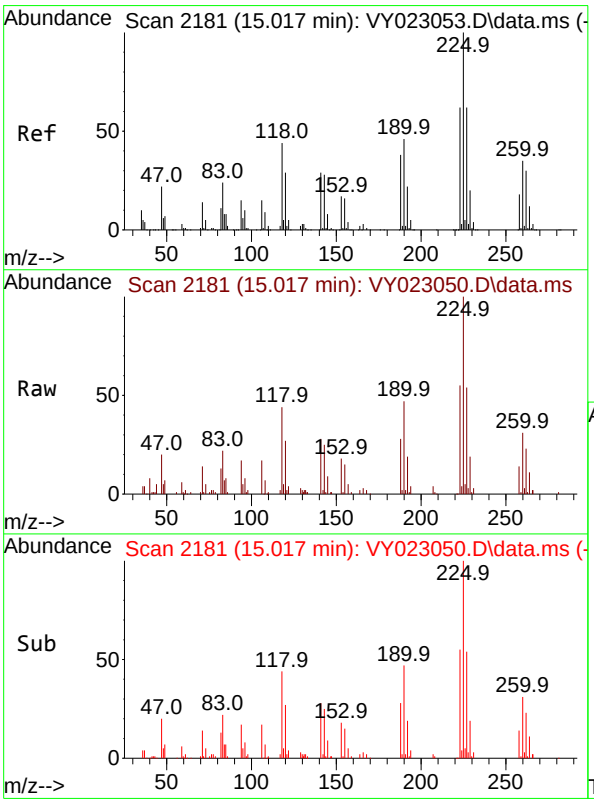

#93
1,2,4-Trichlorobenzene
Concen: 4.576 ug/l
RT: 14.913 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:180 Resp: 28399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.6 | 46.8 | 140.4 |
| 145 | 28.9 | 14.4 | 43.4 |

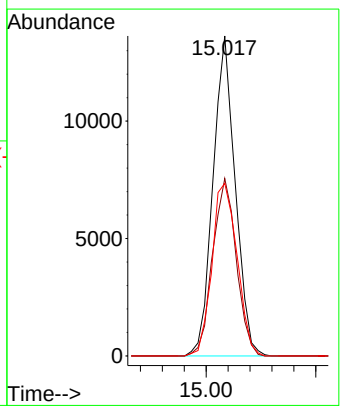


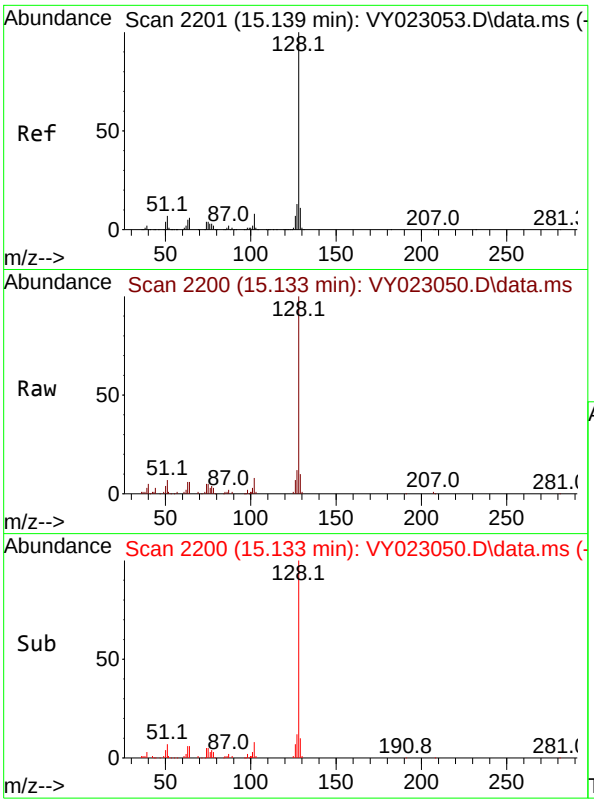




#94
Hexachlorobutadiene
Concen: 5.263 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:225 Resp: 19196

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 58.9 | 31.3 | 93.8 |
| 227 | 61.0 | 31.5 | 94.5 |



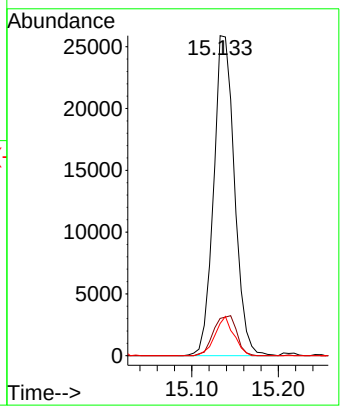


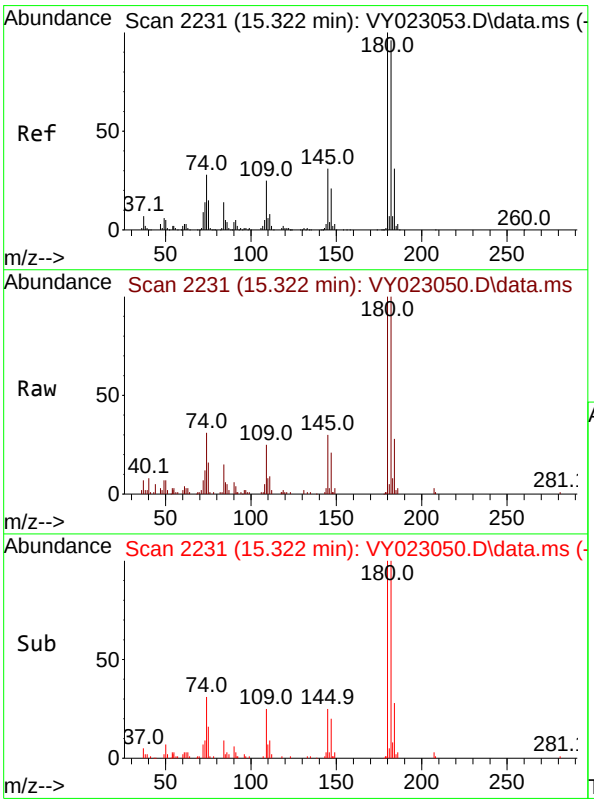

#95
Naphthalene
Concen: 4.100 ug/l
RT: 15.133 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:128 Resp: 43395

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.8 | 10.4 | 15.6 |
| 129 | 10.9 | 9.0 | 13.4 |

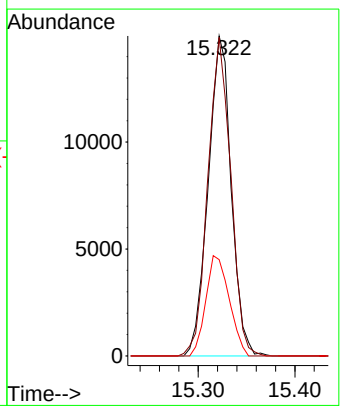



#96
1,2,3-Trichlorobenzene
Concen: 4.619 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023050.D
Acq: 12 Aug 2025 14:54

Tgt Ion:180 Resp: 24703

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 98.4 | 47.9 | 143.7 |
| 145 | 31.9 | 15.9 | 47.7 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023051.D
Acq On : 12 Aug 2025 15:17
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Quant Time: Aug 13 01:51:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.701 | 168 | 551522 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.609 | 114 | 883548 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.408 | 117 | 761327 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 365647 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 54002 | 10.274 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 20.540%# | | | |
| 35) Dibromofluoromethane | 7.628 | 113 | 52916 | 10.009 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 20.020%# | | | |
| 50) Toluene-d8 | 10.103 | 98 | 204532 | 9.903 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 19.800%# | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 64927 | 9.775 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 19.540%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.861 | 85 | 51022 | 11.334 | ug/l | 95 |
| 3) Chloromethane | 2.068 | 50 | 77982 | 10.695 | ug/l | 97 |
| 4) Vinyl Chloride | 2.202 | 62 | 95983 | 10.649 | ug/l | 99 |
| 5) Bromomethane | 2.592 | 94 | 70415 | 10.461 | ug/l | 99 |
| 6) Chloroethane | 2.732 | 64 | 62514 | 10.432 | ug/l | 97 |
| 7) Trichlorofluoromethane | 3.049 | 101 | 115150 | 10.507 | ug/l | 94 |
| 8) Diethyl Ether | 3.452 | 74 | 30390 | 10.481 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 3.812 | 101 | 57210 | 10.581 | ug/l | 100 |
| 10) Methyl Iodide | 4.001 | 142 | 54184 | 9.287 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.866 | 59 | 20212 | 56.119 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 3.781 | 96 | 55669 | 10.475 | ug/l | 92 |
| 13) Acrolein | 3.647 | 56 | 30081 | 57.030 | ug/l | 97 |
| 14) Allyl chloride | 4.372 | 41 | 79145 | 10.121 | ug/l | 98 |
| 15) Acrylonitrile | 5.049 | 53 | 62889 | 53.349 | ug/l | 99 |
| 16) Acetone | 3.873 | 43 | 61290 | 53.821 | ug/l | 94 |
| 17) Carbon Disulfide | 4.098 | 76 | 183399 | 10.583 | ug/l | 98 |
| 18) Methyl Acetate | 4.385 | 43 | 33996 | 10.032 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.110 | 73 | 139820 | 10.153 | ug/l | 95 |
| 20) Methylene Chloride | 4.604 | 84 | 77920 | 11.095 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 5.110 | 96 | 61826 | 10.352 | ug/l | 100 |
| 22) Diisopropyl ether | 6.012 | 45 | 172602 | 10.157 | ug/l | 93 |
| 23) Vinyl Acetate | 5.957 | 43 | 482714 | 51.372 | ug/l | 98 |
| 24) 1,1-Dichloroethane | 5.903 | 63 | 106831 | 10.282 | ug/l | 99 |
| 25) 2-Butanone | 6.896 | 43 | 83923 | 54.187 | ug/l | 96 |
| 26) 2,2-Dichloropropane | 6.878 | 77 | 91579 | 10.215 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 6.884 | 96 | 68839 | 9.970 | ug/l | 99 |
| 28) Bromochloromethane | 7.238 | 49 | 41820 | 10.146 | ug/l | 100 |
| 29) Tetrahydrofuran | 7.262 | 42 | 49926 | 52.005 | ug/l | 99 |
| 30) Chloroform | 7.415 | 83 | 109942 | 10.260 | ug/l | 93 |
| 31) Cyclohexane | 7.701 | 56 | 103068 | 10.527 | ug/l # | 89 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 96693 | 10.170 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 7.829 | 75 | 80479 | 10.243 | ug/l | 99 |
| 37) Ethyl Acetate | 6.982 | 43 | 34854 | 10.560 | ug/l | 97 |
| 38) Carbon Tetrachloride | 7.811 | 117 | 85932 | 10.070 | ug/l | 97 |
| 39) Methylcyclohexane | 9.103 | 83 | 102275 | 9.885 | ug/l | 99 |
| 40) Benzene | 8.073 | 78 | 243060 | 10.037 | ug/l | 100 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023051.D
Acq On : 12 Aug 2025 15:17
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Quant Time: Aug 13 01:51:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.213 | 41 | 18825 | 9.872 | ug/l | # | 89 |
| 42) 1,2-Dichloroethane | 8.152 | 62 | 65350 | 10.376 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.195 | 43 | 67669 | 10.144 | ug/l | | 99 |
| 44) Trichloroethene | 8.859 | 130 | 62689 | 10.017 | ug/l | | 98 |
| 45) 1,2-Dichloropropane | 9.134 | 63 | 56720 | 10.179 | ug/l | | 97 |
| 46) Dibromomethane | 9.225 | 93 | 33460 | 10.462 | ug/l | | 98 |
| 47) Bromodichloromethane | 9.420 | 83 | 81951 | 9.959 | ug/l | | 97 |
| 48) Methyl methacrylate | 9.213 | 41 | 31851 | 9.978 | ug/l | | 96 |
| 49) 1,4-Dioxane | 9.231 | 88 | 7705 | 205.471 | ug/l | | 94 |
| 51) 4-Methyl-2-Pentanone | 9.993 | 43 | 177157 | 51.484 | ug/l | | 98 |
| 52) Toluene | 10.164 | 92 | 150422 | 9.780 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 72507 | 9.730 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 85945 | 9.753 | ug/l | | 100 |
| 55) 1,1,2-Trichloroethane | 10.566 | 97 | 42712 | 9.981 | ug/l | | 97 |
| 56) Ethyl methacrylate | 10.432 | 69 | 52746 | 9.632 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 74433 | 10.256 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 119417 | 46.232 | ug/l | | 98 |
| 59) 2-Hexanone | 10.755 | 43 | 118452 | 50.553 | ug/l | | 99 |
| 60) Dibromochloromethane | 10.902 | 129 | 56045 | 9.925 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.011 | 107 | 41009 | 10.196 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.640 | 164 | 70502 | 10.371 | ug/l | | 98 |
| 65) Chlorobenzene | 11.438 | 112 | 162985 | 9.925 | ug/l | | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 11.511 | 131 | 54856 | 9.842 | ug/l | | 97 |
| 67) Ethyl Benzene | 11.511 | 91 | 273281 | 9.670 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.621 | 106 | 212766 | 19.277 | ug/l | | 99 |
| 69) o-Xylene | 11.950 | 106 | 97841 | 9.465 | ug/l | | 98 |
| 70) Styrene | 11.963 | 104 | 155809 | 9.216 | ug/l | | 99 |
| 71) Bromoform | 12.127 | 173 | 32470 | 9.968 | ug/l | # | 97 |
| 73) Isopropylbenzene | 12.249 | 105 | 254745 | 9.871 | ug/l | | 99 |
| 74) N-amyl acetate | 12.066 | 43 | 53943 | 9.857 | ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.499 | 83 | 47304 | 10.735 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.548 | 75 | 61290 | 17.357 | ug/l | # | 100 |
| 77) Bromobenzene | 12.523 | 156 | 60728 | 9.864 | ug/l | | 96 |
| 78) n-propylbenzene | 12.590 | 91 | 303440 | 9.876 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 175364 | 9.962 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.731 | 105 | 205544 | 9.855 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.298 | 75 | 15715 | 10.780 | ug/l | | 96 |
| 82) 4-Chlorotoluene | 12.767 | 91 | 181812 | 9.956 | ug/l | | 99 |
| 83) tert-Butylbenzene | 12.993 | 119 | 181408 | 9.630 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.035 | 105 | 201812 | 9.720 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.170 | 105 | 274178 | 9.908 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.285 | 119 | 217799 | 9.482 | ug/l | | 98 |
| 87) 1,3-Dichlorobenzene | 13.279 | 146 | 120109 | 9.893 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.359 | 146 | 121160 | 10.060 | ug/l | | 97 |
| 89) n-Butylbenzene | 13.609 | 91 | 205420 | 9.737 | ug/l | | 98 |
| 90) Hexachloroethane | 13.871 | 117 | 47353 | 10.071 | ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 13.651 | 146 | 107656 | 10.110 | ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.267 | 75 | 7032 | 10.250 | ug/l | | 98 |
| 93) 1,2,4-Trichlorobenzene | 14.913 | 180 | 61323 | 9.739 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.017 | 225 | 37011 | 10.003 | ug/l | | 99 |
| 95) Naphthalene | 15.139 | 128 | 99780 | 9.293 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.322 | 180 | 53626 | 9.883 | ug/l | | 96 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023051.D
Acq On : 12 Aug 2025 15:17
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Quant Time: Aug 13 01:51:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

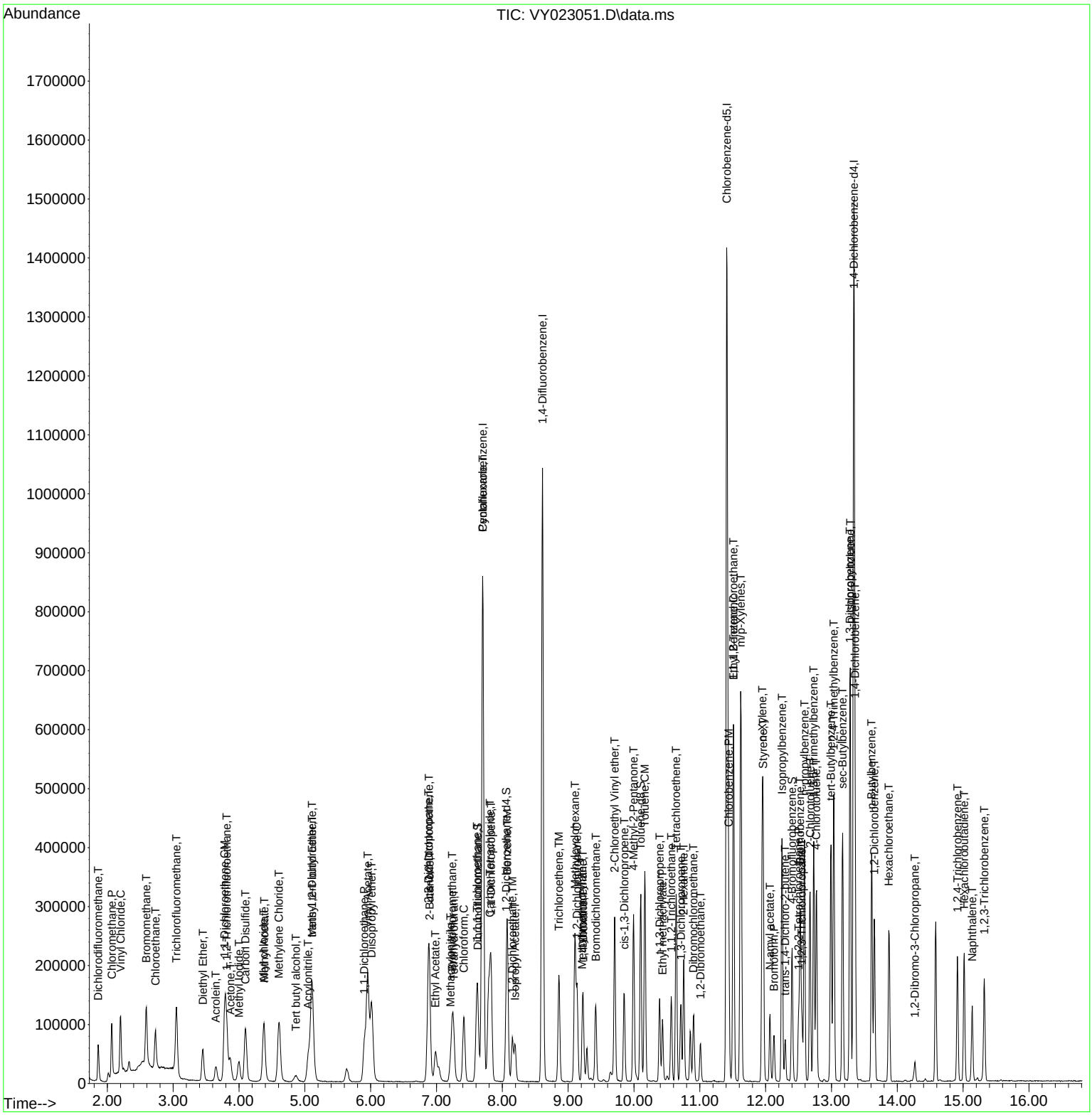
(#) = qualifier out of range (m) = manual integration (+) = signals summed

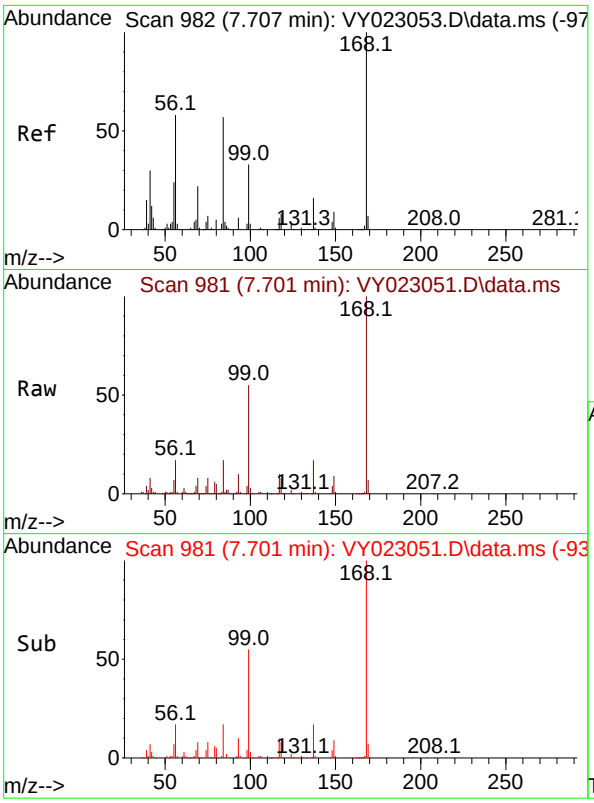
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023051.D
Acq On : 12 Aug 2025 15:17
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Quant Time: Aug 13 01:51:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration



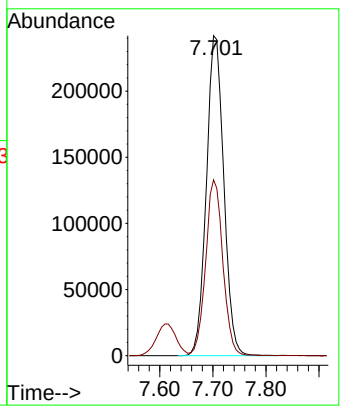


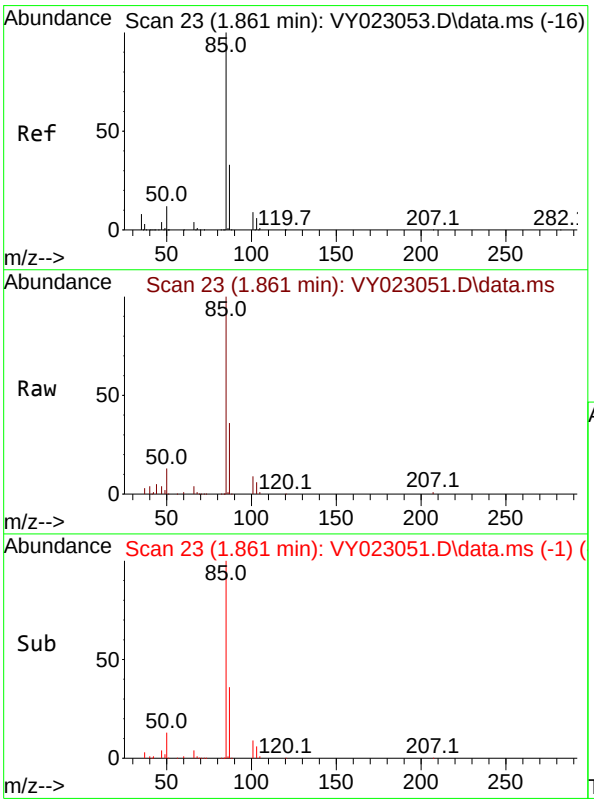

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:168 Resp: 551522

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 54.9 | 42.8 | 64.2 |

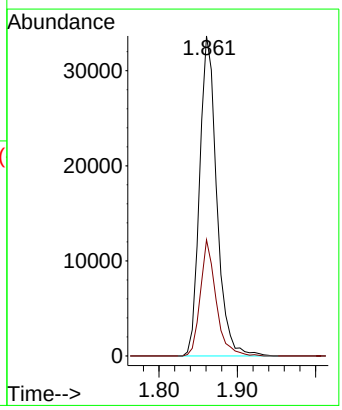


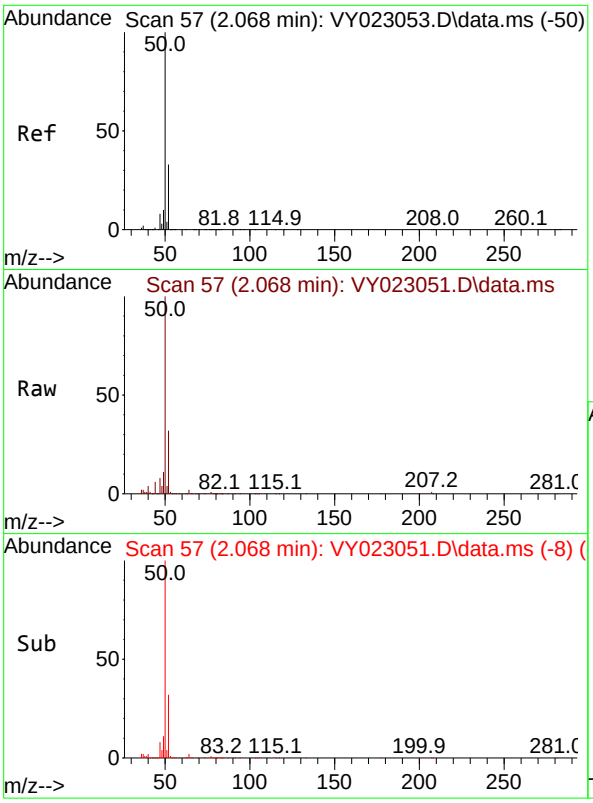




#2
Dichlorodifluoromethane
Concen: 11.334 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 85 Resp: 51022

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 36.3 | 16.6 | 49.8 |



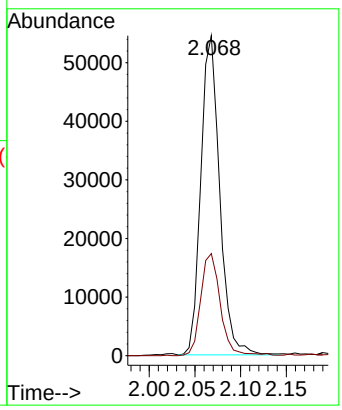


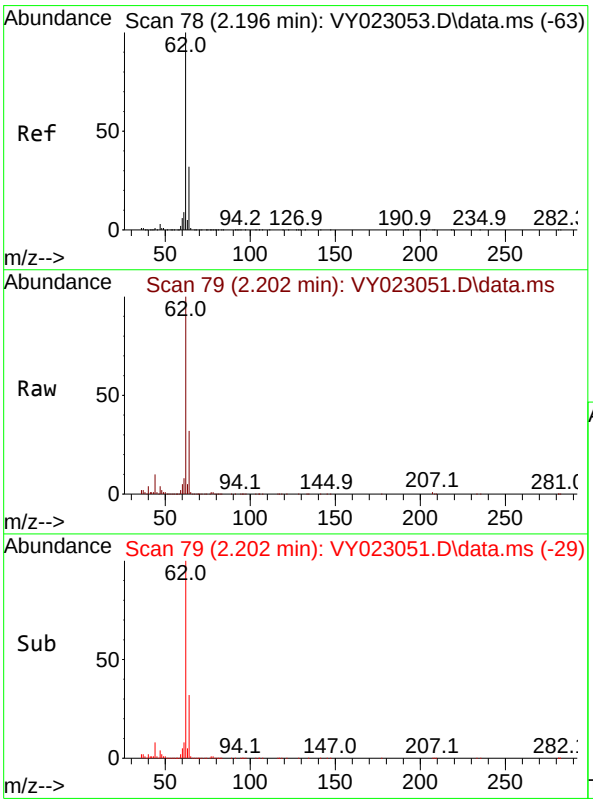

#3
Chloromethane
Concen: 10.695 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 50 Resp: 77982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.0 | 26.7 | 40.1 |

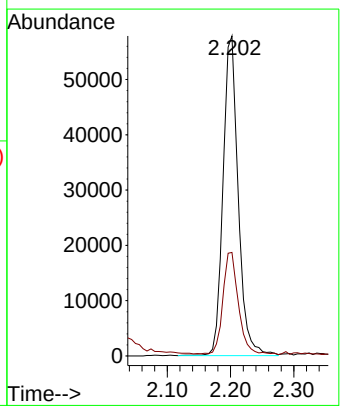


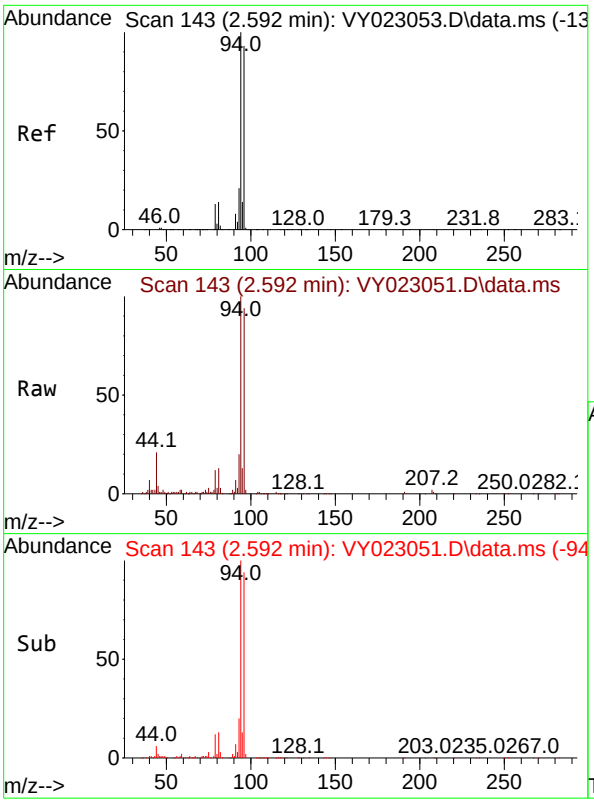




#4
Vinyl Chloride
Concen: 10.649 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 62 Resp: 95983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.0 | 25.4 | 38.0 |



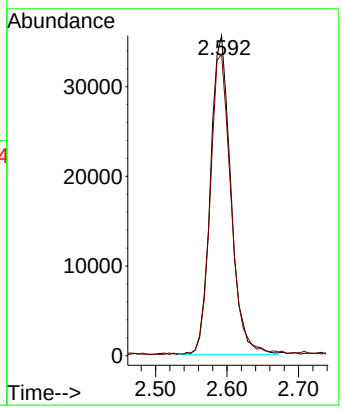


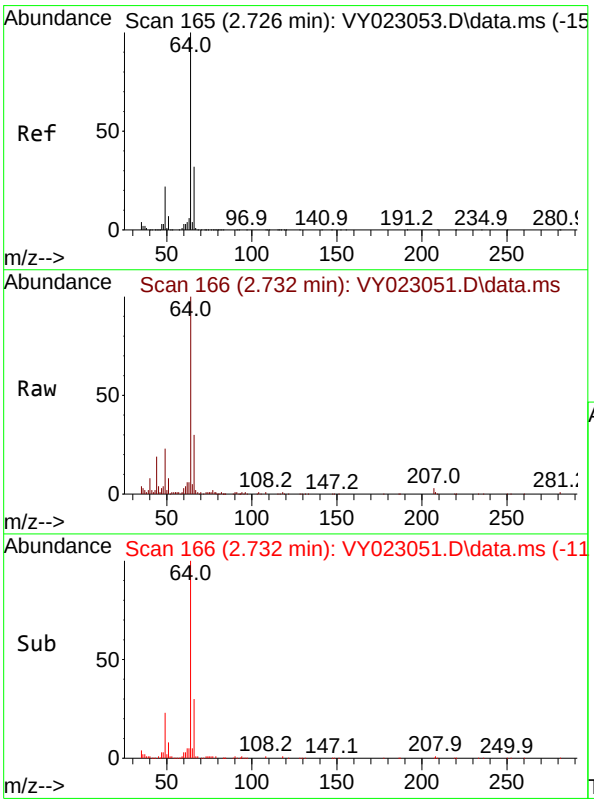

#5
Bromomethane
Concen: 10.461 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 94 Resp: 70415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 93.8 | 74.6 | 112.0 |

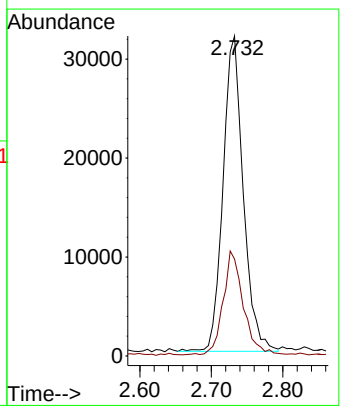


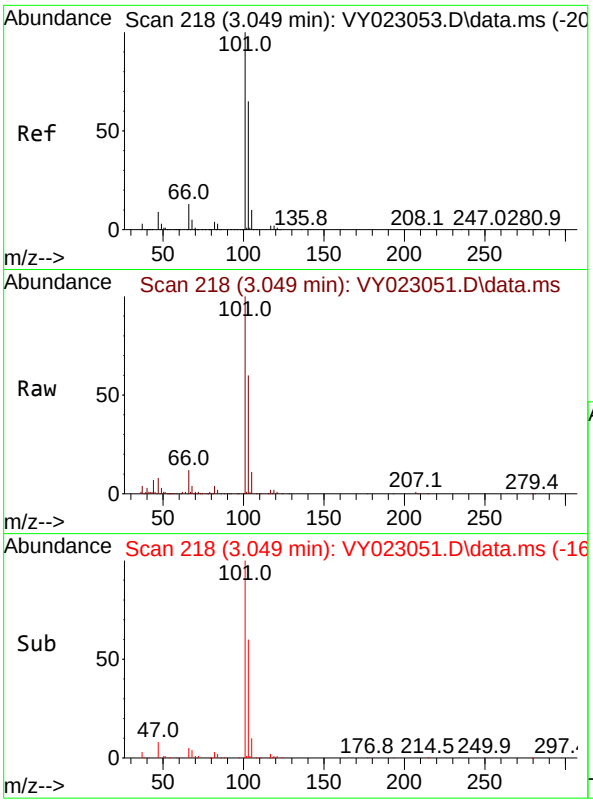




#6
Chloroethane
Concen: 10.432 ug/l
RT: 2.732 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 64 Resp: 62514

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.4 | 25.8 | 38.6 |



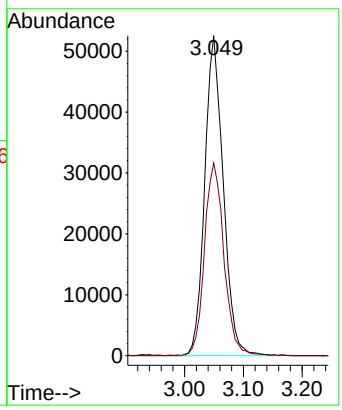


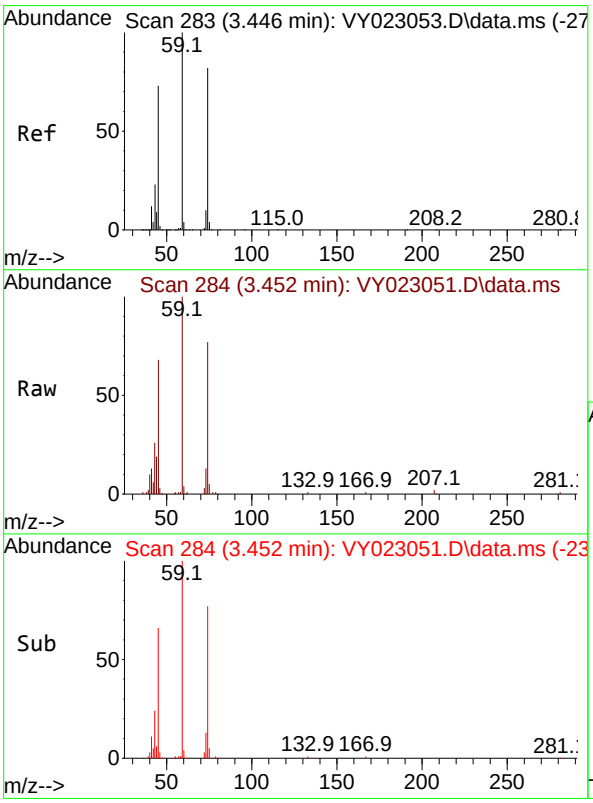

#7
Trichlorofluoromethane
Concen: 10.507 ug/l
RT: 3.049 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:101 Resp: 115150

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 60.1 | 51.9 | 77.9 |

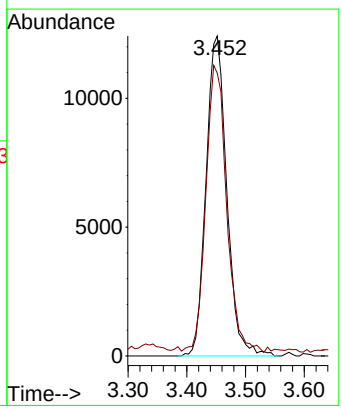


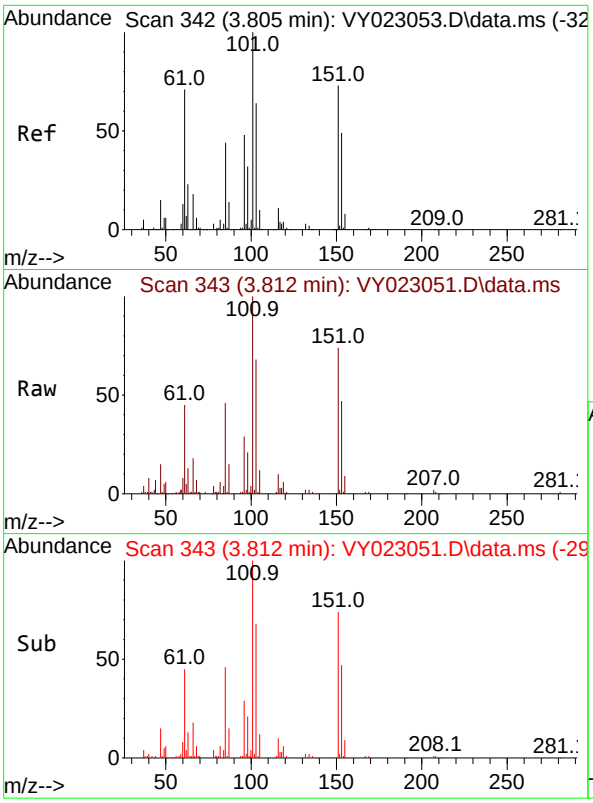




#8
Diethyl Ether
Concen: 10.481 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 74 Resp: 30390

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 90.2 | 44.4 | 133.2 |



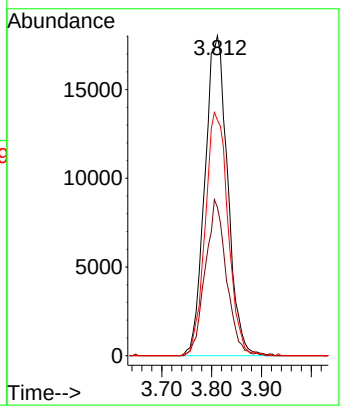


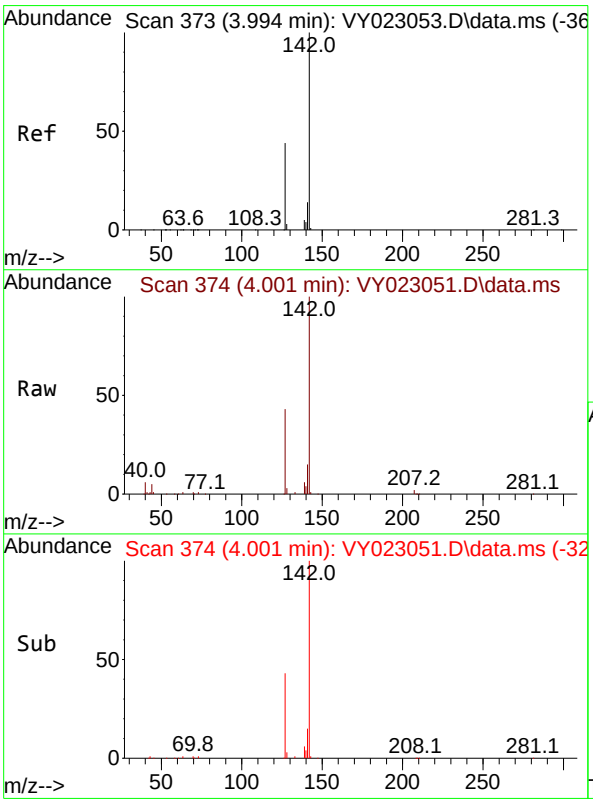

#9
1,1,2-Trichlorotrifluoroethane
Concen: 10.581 ug/l
RT: 3.812 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:101 Resp: 57210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 45.3 | 36.3 | 54.5 |
| 151 | 76.3 | 61.5 | 92.3 |

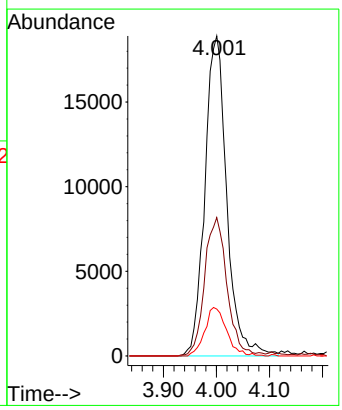


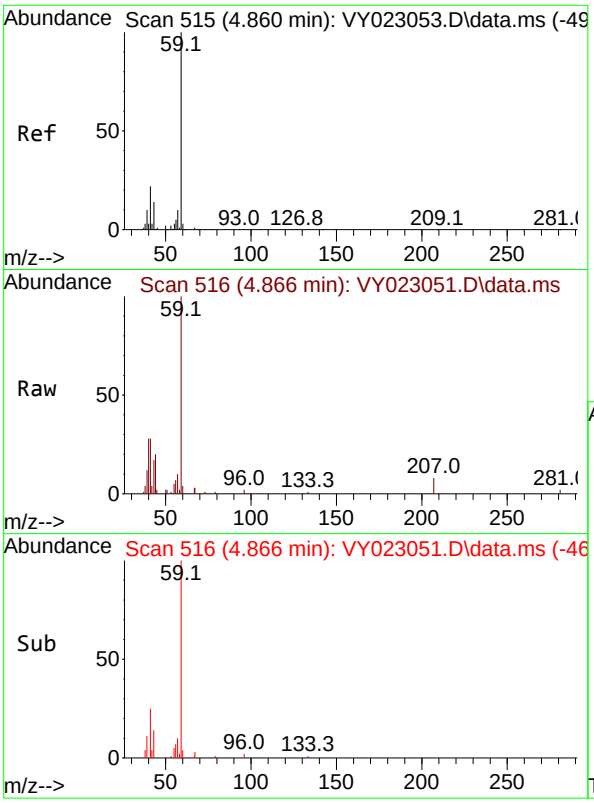




#10
Methyl Iodide
Concen: 9.287 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:142 Resp: 54184

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 44.3 | 34.9 | 52.3 |
| 141 | 14.9 | 11.3 | 16.9 |



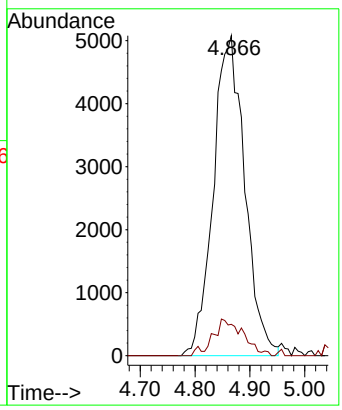


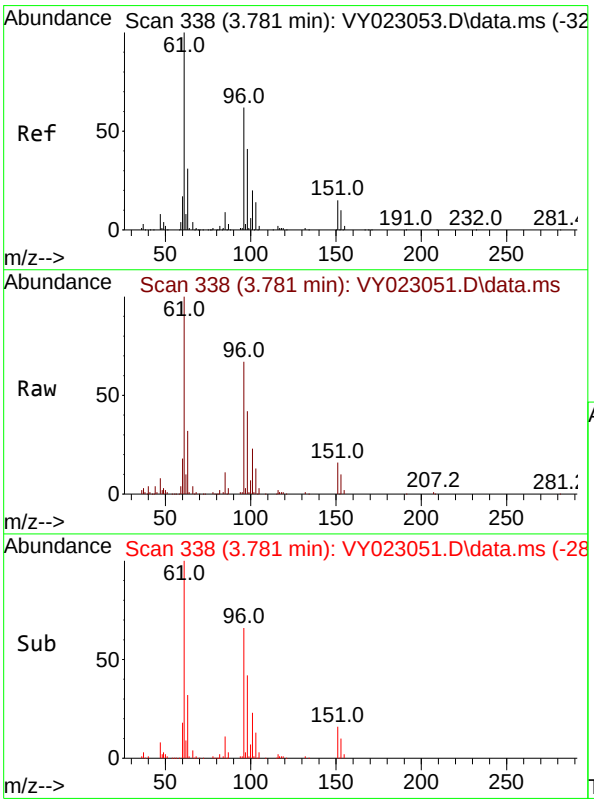

#11
Tert butyl alcohol
Concen: 56.119 ug/l
RT: 4.866 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 59 Resp: 20212

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.3 | 8.6 | 13.0 |

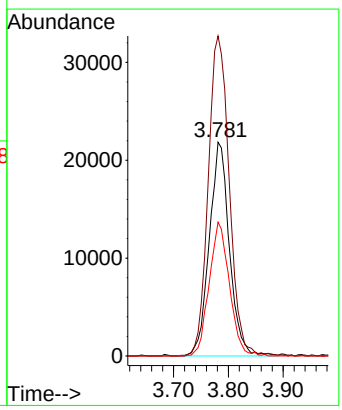


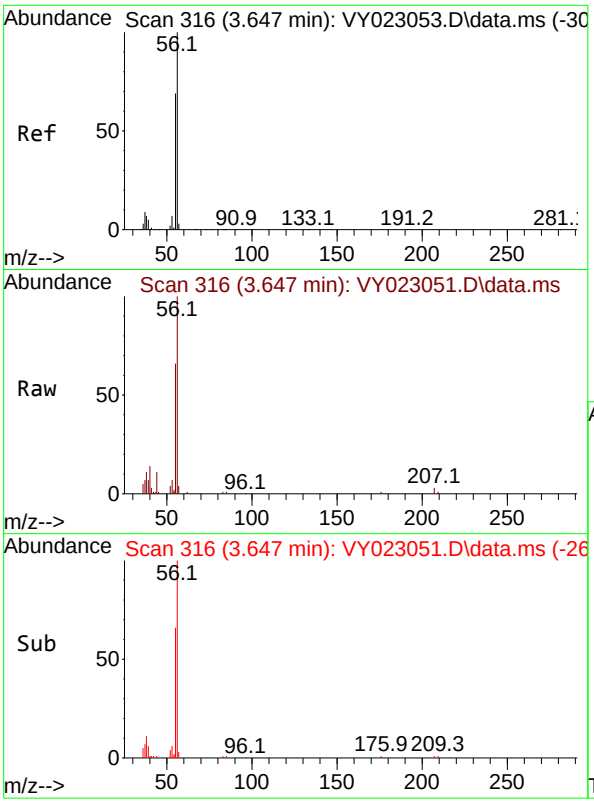




#12
1,1-Dichloroethene
Concen: 10.475 ug/l
RT: 3.781 min Scan# 338
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 96 Resp: 55669

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 149.7 | 129.4 | 194.2 |
| 98 | 62.6 | 52.8 | 79.2 |



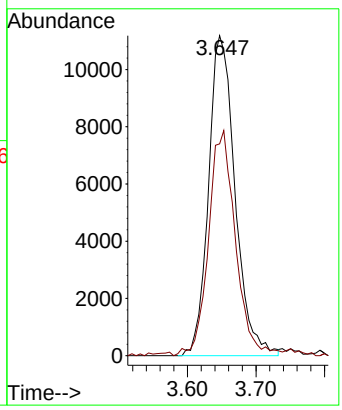


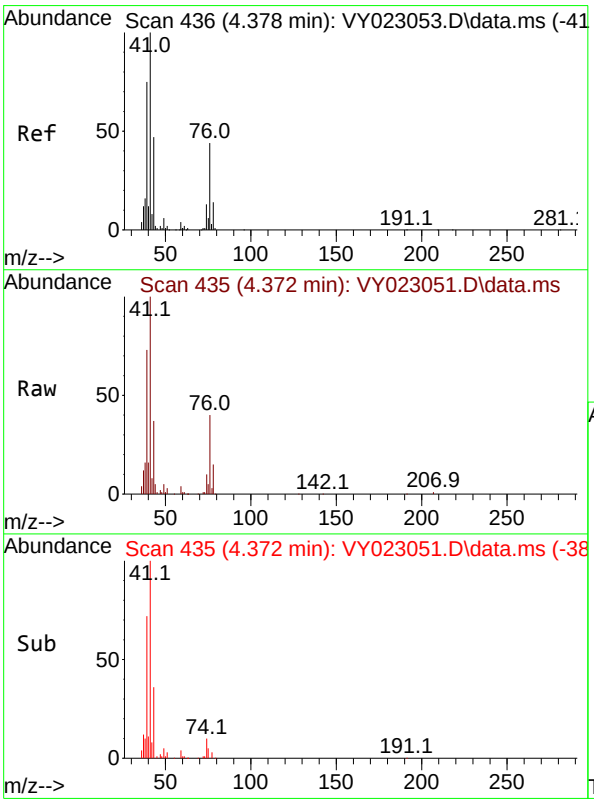

#13
Acrolein
Concen: 57.030 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 56 Resp: 30081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 71.2 | 55.2 | 82.8 |

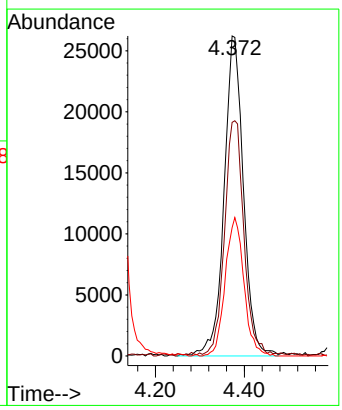


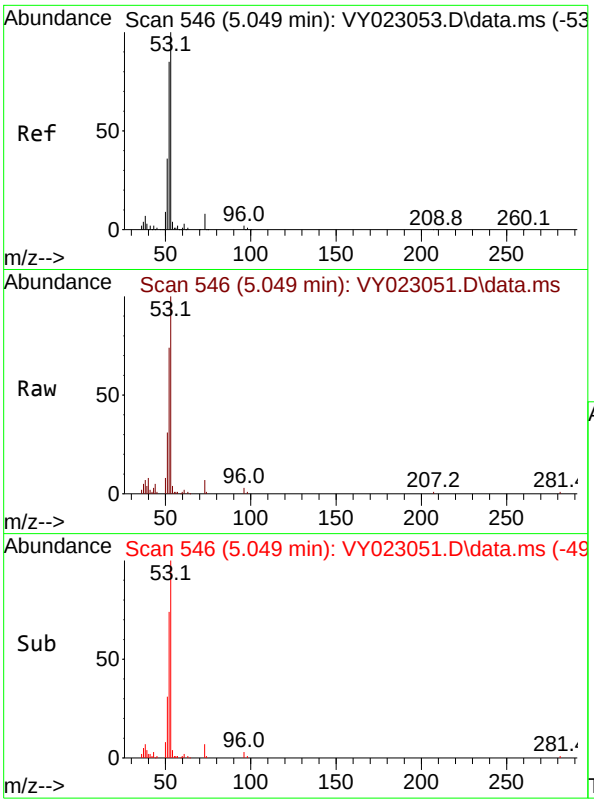




#14
Allyl chloride
Concen: 10.121 ug/l
RT: 4.372 min Scan# 435
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 41 Resp: 79145

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 72.7 | 59.8 | 89.6 |
| 76 | 41.9 | 33.7 | 50.5 |



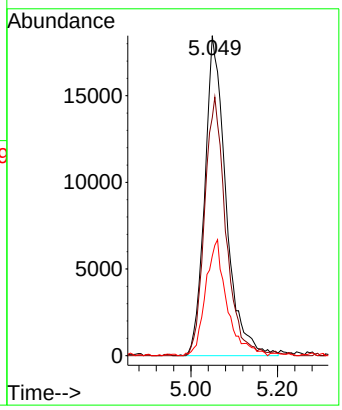


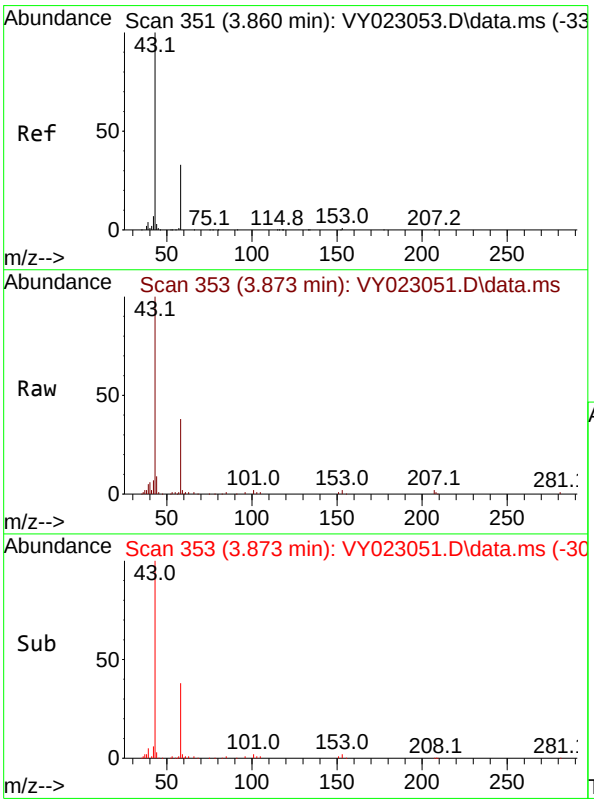

#15
Acrylonitrile
Concen: 53.349 ug/l
RT: 5.049 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 53 Resp: 62889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.0 | 65.3 | 97.9 |
| 51 | 36.5 | 29.5 | 44.3 |

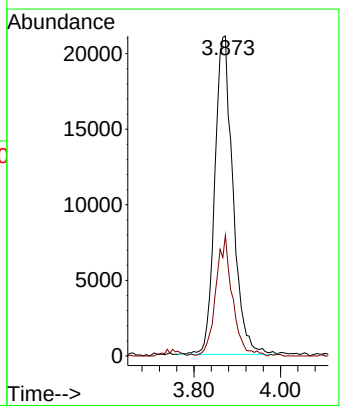


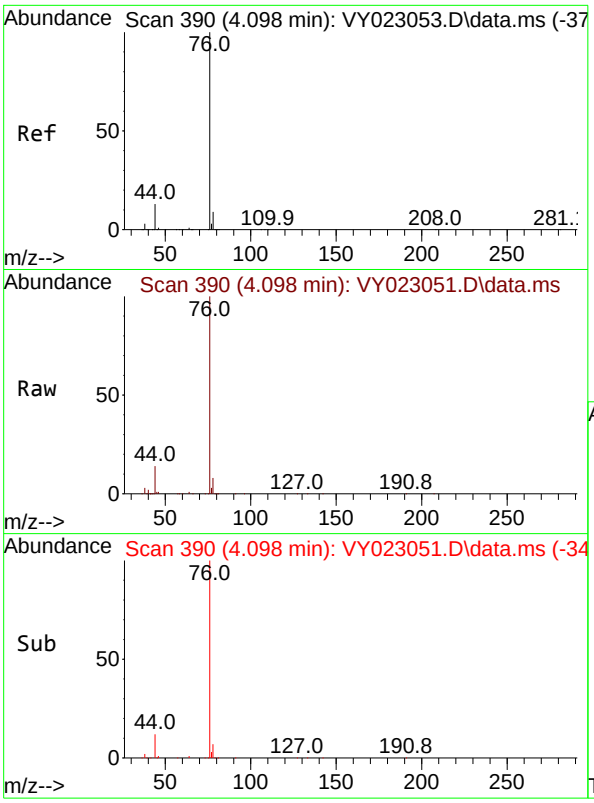




#16
Acetone
Concen: 53.821 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.012 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 43 Resp: 61290

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 37.4 | 27.1 | 40.7 |



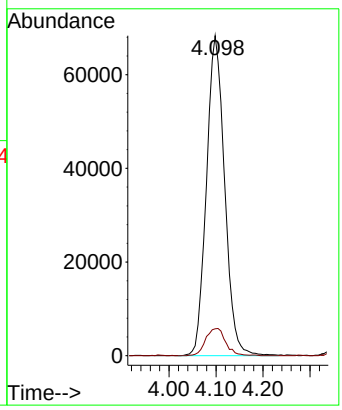


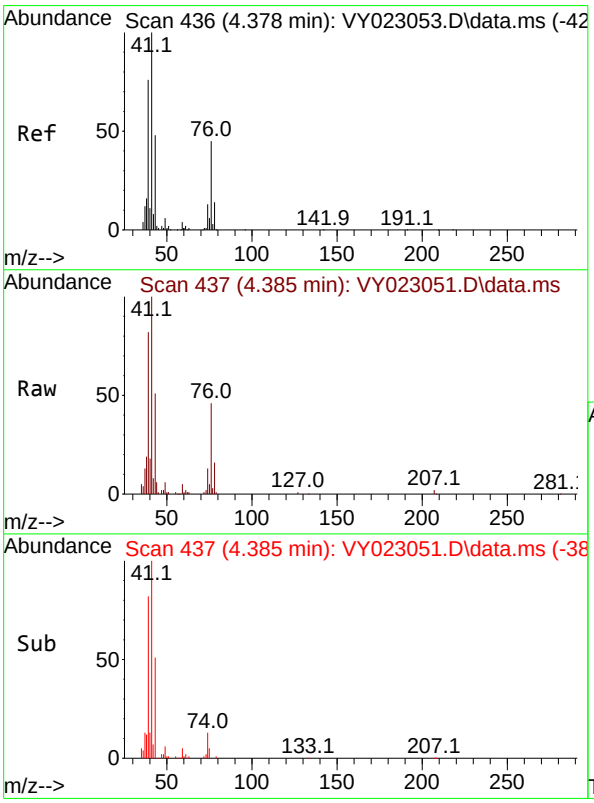

#17
Carbon Disulfide
Concen: 10.583 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 76 Resp: 183399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.4 | 7.4 | 11.2 |

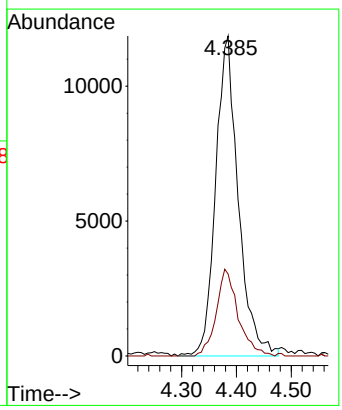


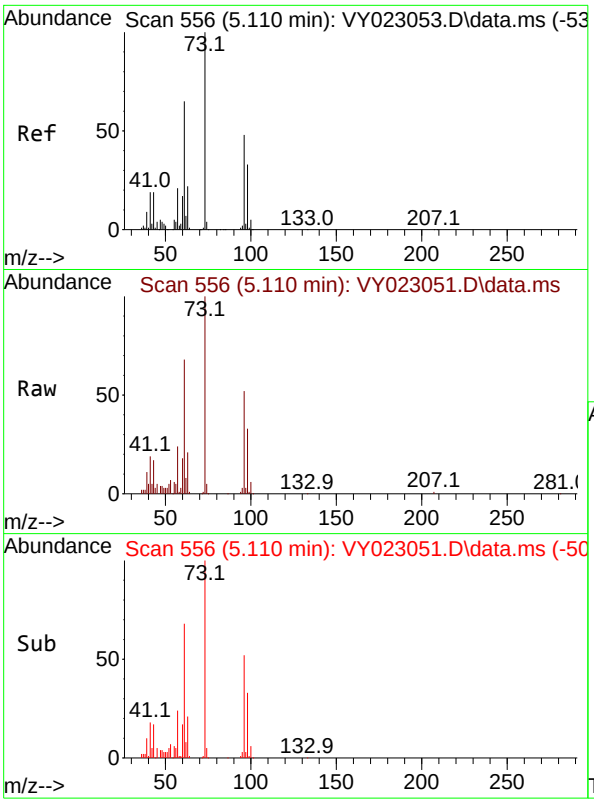




#18
Methyl Acetate
Concen: 10.032 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 43 Resp: 33996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 26.2 | 21.2 | 31.8 |



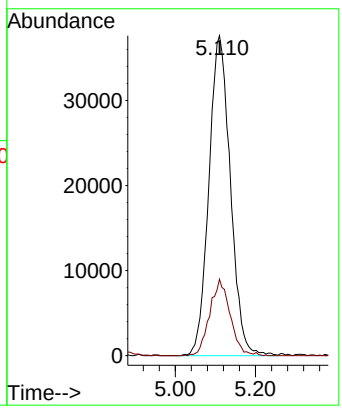


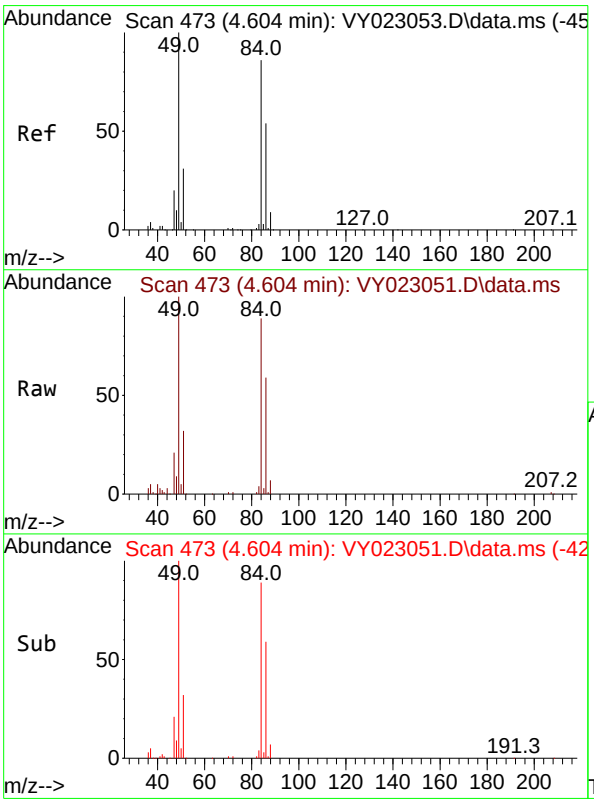

#19
Methyl tert-butyl Ether
Concen: 10.153 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 73 Resp: 139820

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 23.9 | 17.1 | 25.7 |

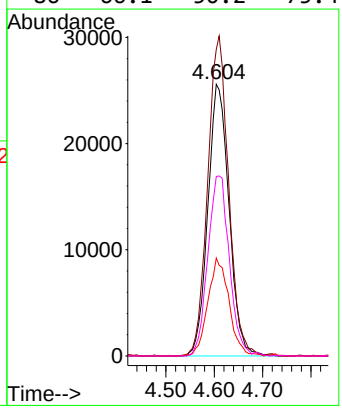


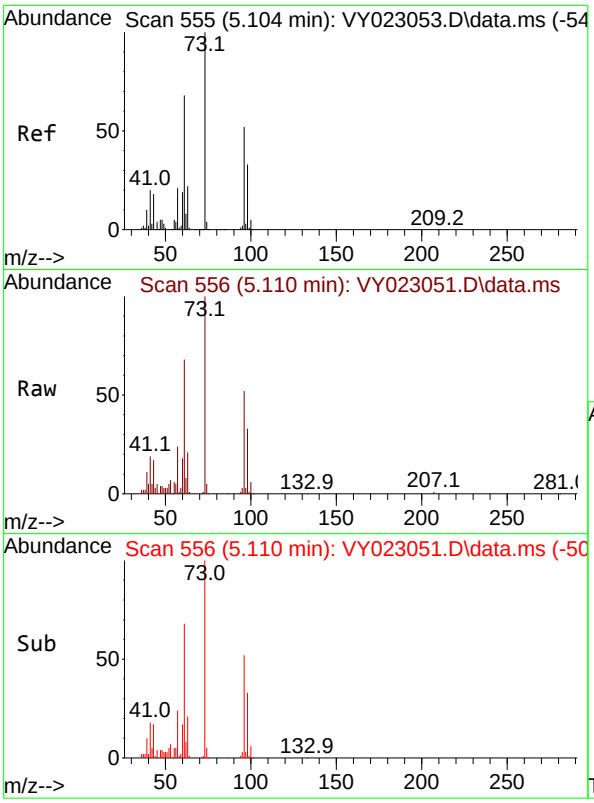




#20
Methylene Chloride
Concen: 11.095 ug/l
RT: 4.604 min Scan# 473
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 84 Resp: 77920

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 112.8 | 93.0 | 139.6 |
| 51 | 36.1 | 29.0 | 43.4 |
| 86 | 66.1 | 50.2 | 75.4 |



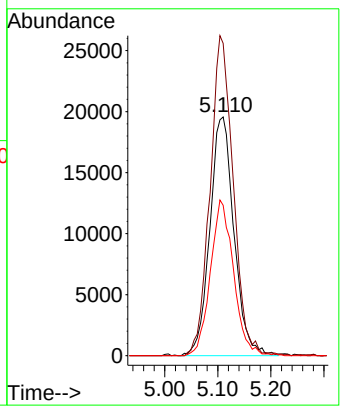


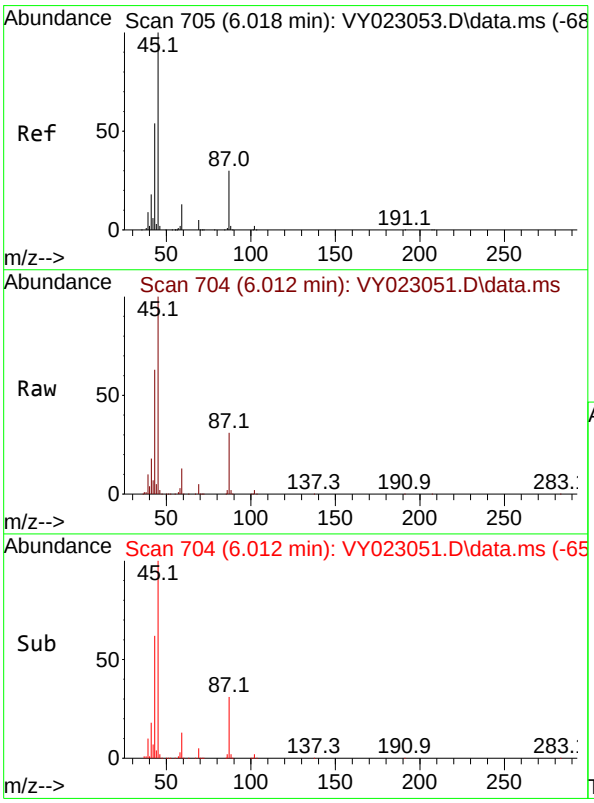

#21
trans-1,2-Dichloroethene
Concen: 10.352 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 96 Resp: 61826

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 130.8 | 104.8 | 157.2 |
| 98 | 63.0 | 50.1 | 75.1 |

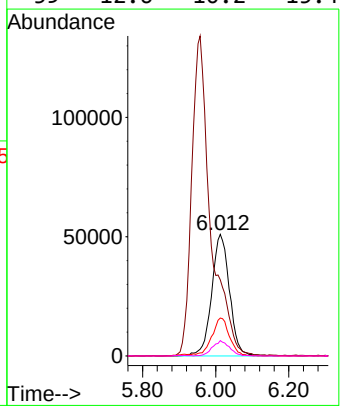


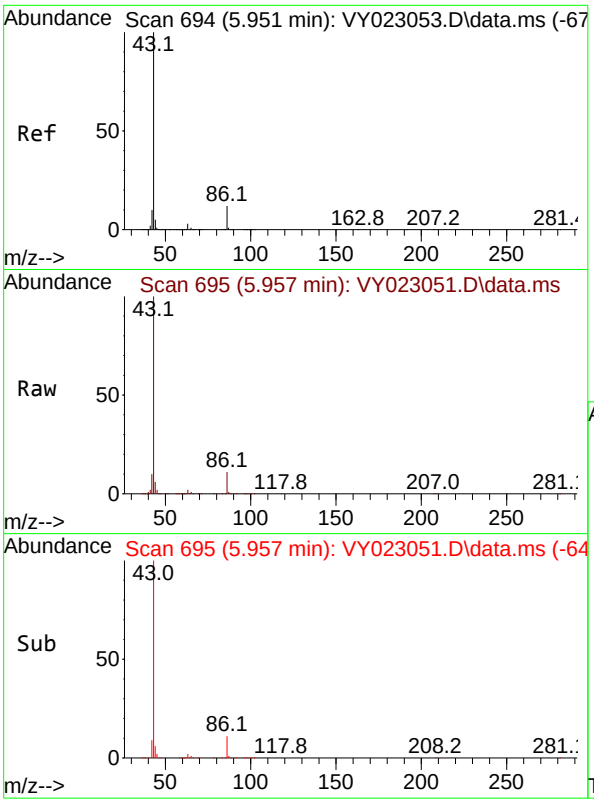




#22
Diisopropyl ether
Concen: 10.157 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 45 Resp: 172602

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 62.2 | 43.4 | 65.0 |
| 87 | 31.2 | 24.4 | 36.6 |
| 59 | 12.6 | 10.2 | 15.4 |



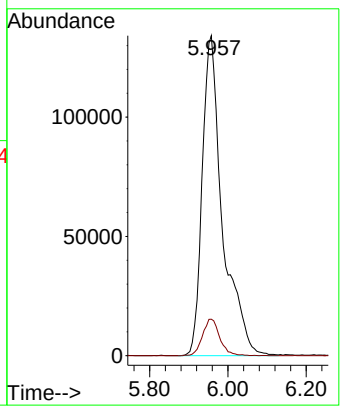


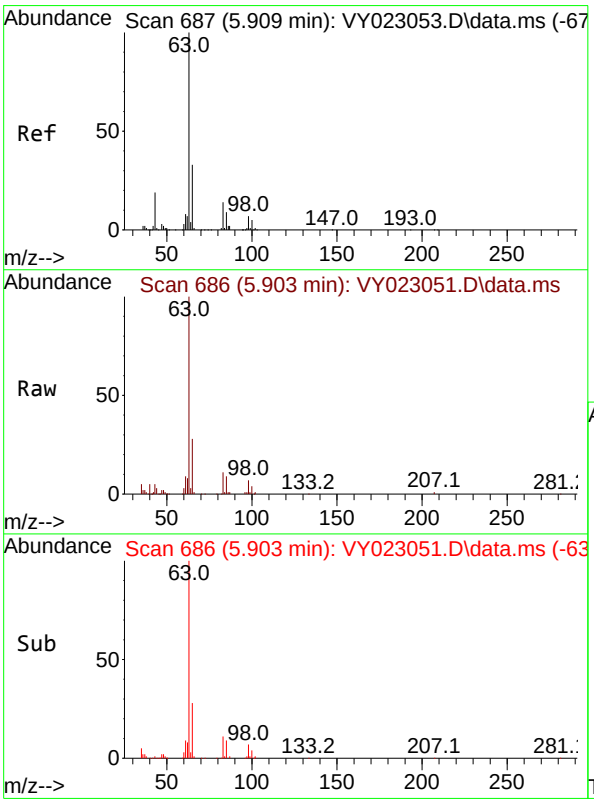

#23
Vinyl Acetate
Concen: 51.372 ug/l
RT: 5.957 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 43 Resp: 482714

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.4 | 9.6 | 14.4 |

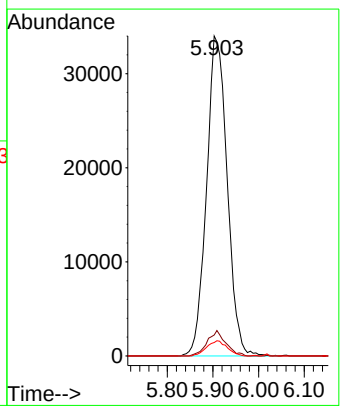


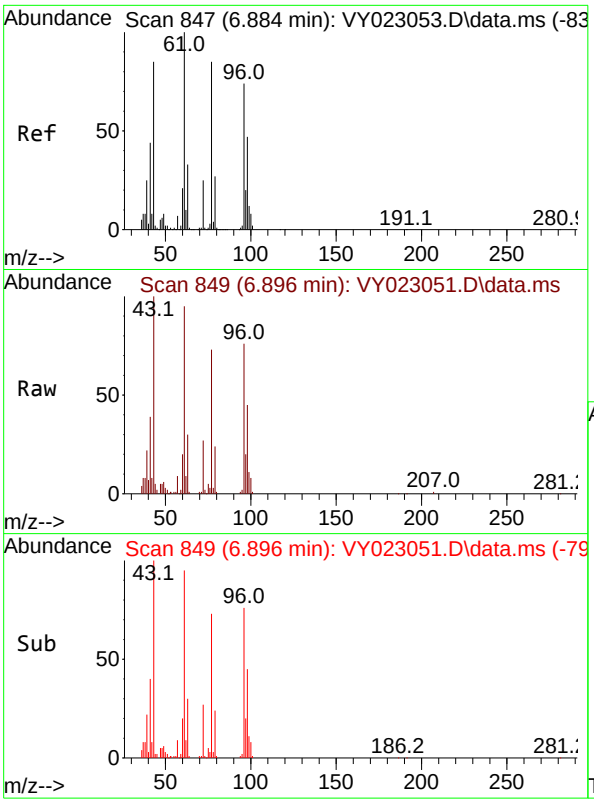




#24
1,1-Dichloroethane
Concen: 10.282 ug/l
RT: 5.903 min Scan# 686
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 63 Resp: 106831

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.6 | 3.5 | 10.6 |
| 100 | 4.2 | 2.4 | 7.1 |



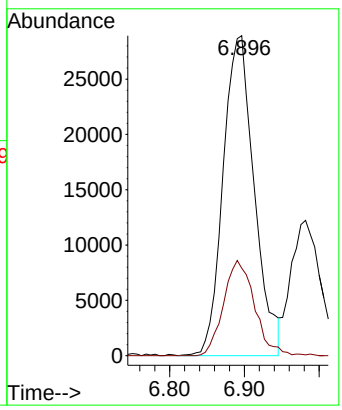


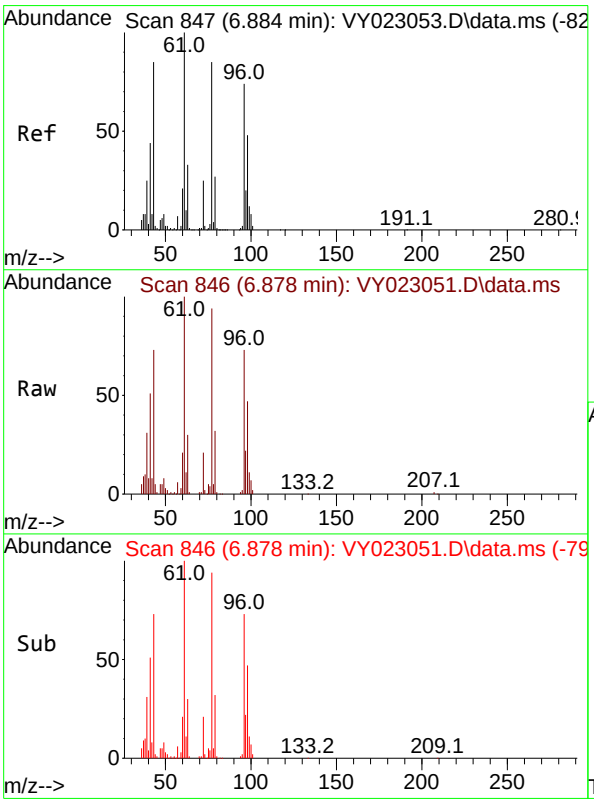

#25
2-Butanone
Concen: 54.187 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.012 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 43 Resp: 83923

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 27.3 | 23.5 | 35.3 |

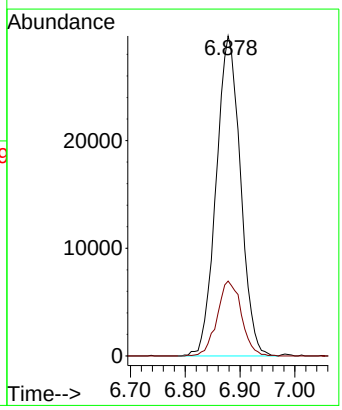


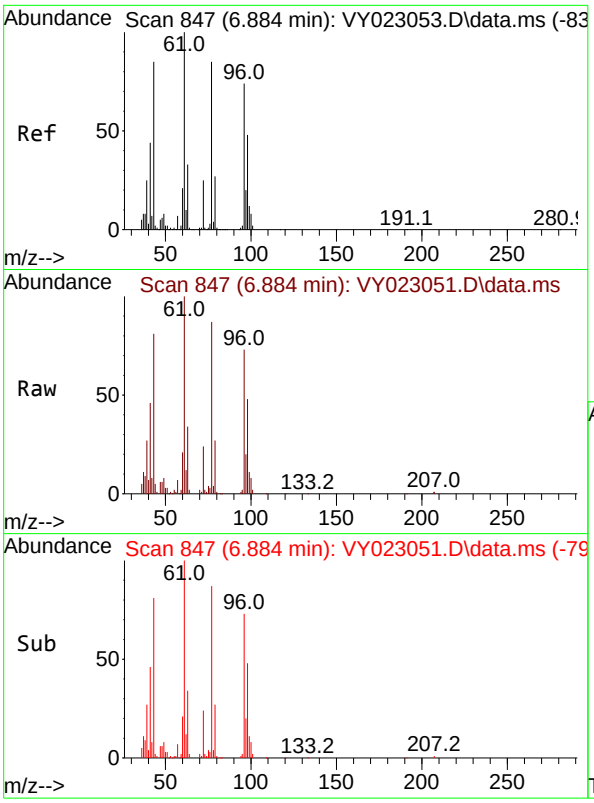




#26
2,2-Dichloropropane
Concen: 10.215 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 77 Resp: 91579

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.4 | 11.6 | 34.8 |



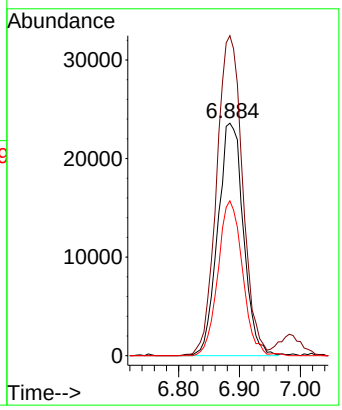


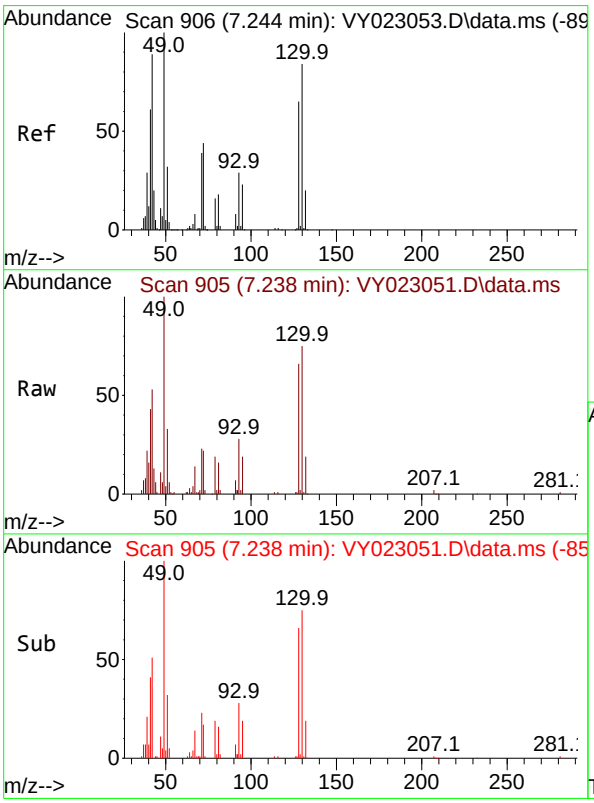

#27
cis-1,2-Dichloroethene
Concen: 9.970 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 96 Resp: 68839

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 139.5 | 0.0 | 278.6 |
| 98 | 63.6 | 0.0 | 130.4 |

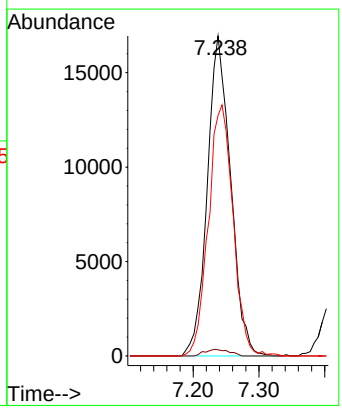


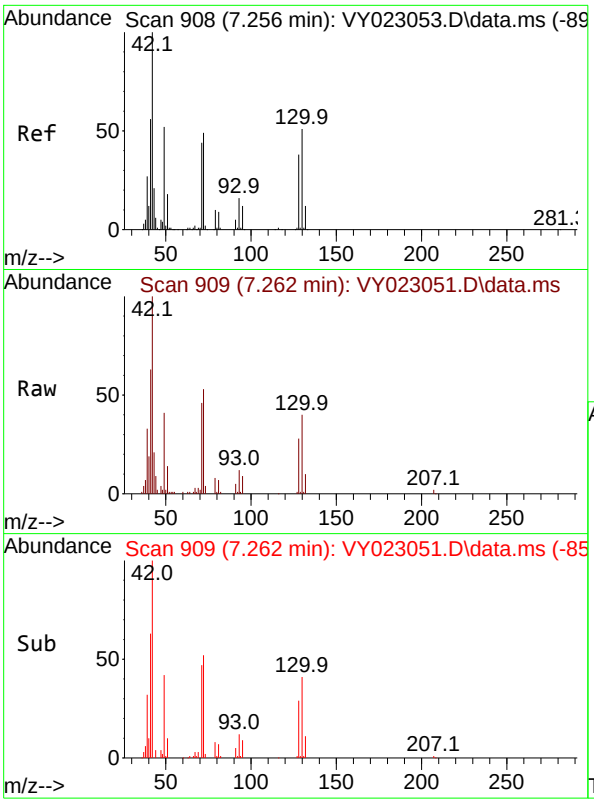




#28
Bromochloromethane
Concen: 10.146 ug/l
RT: 7.238 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 49 Resp: 41820

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.2 | 0.0 | 4.2 |
| 130 | 82.8 | 66.4 | 99.6 |



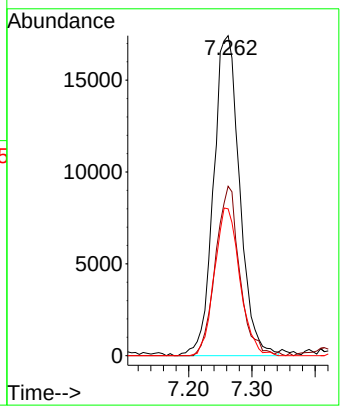


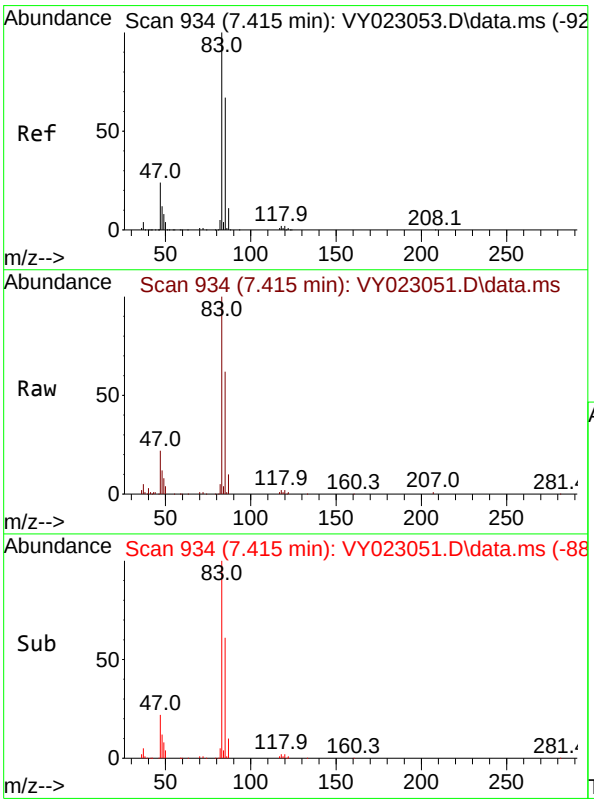

#29
Tetrahydrofuran
Concen: 52.005 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 42 Resp: 49926

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 49.0 | 39.4 | 59.2 |
| 71 | 44.8 | 36.5 | 54.7 |

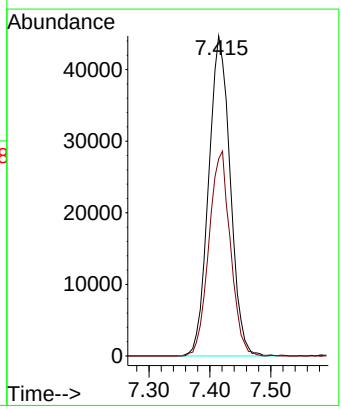


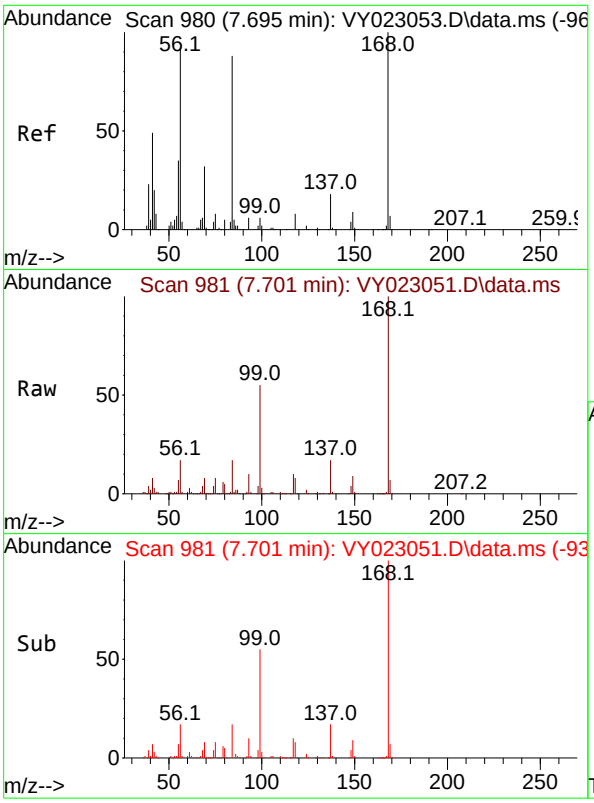




#30
Chloroform
Concen: 10.260 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 83 Resp: 109942

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 61.6 | 53.8 | 80.8 |



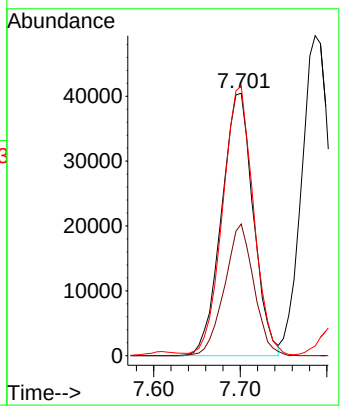


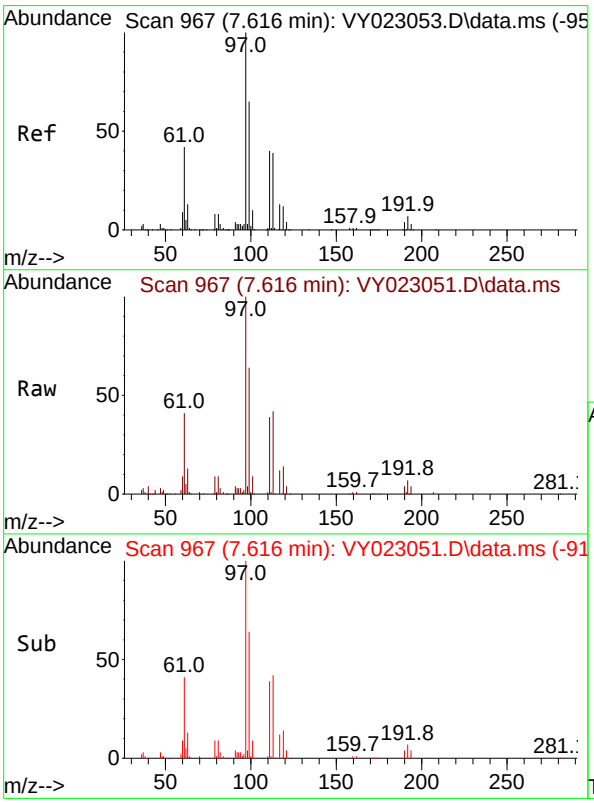

#31
Cyclohexane
Concen: 10.527 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 56 Resp: 103068

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 50.2 | 28.2 | 42.2# |
| 84 | 101.8 | 76.6 | 114.8 |

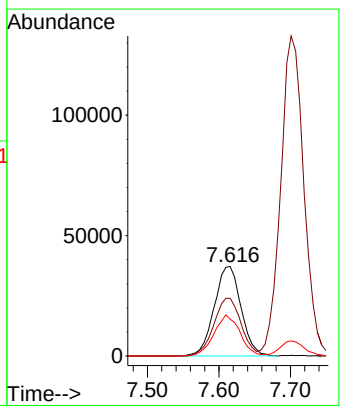


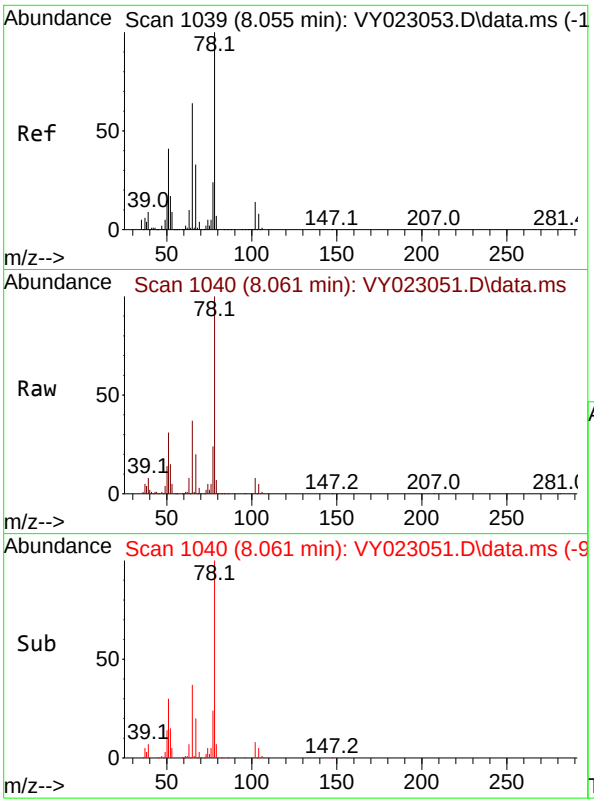




#32
1,1,1-Trichloroethane
Concen: 10.170 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 97 Resp: 96693

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 65.2 | 51.6 | 77.4 |
| 61 | 44.2 | 34.2 | 51.2 |



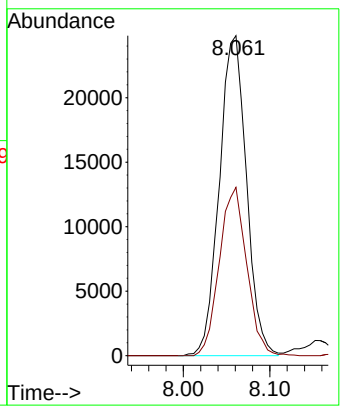


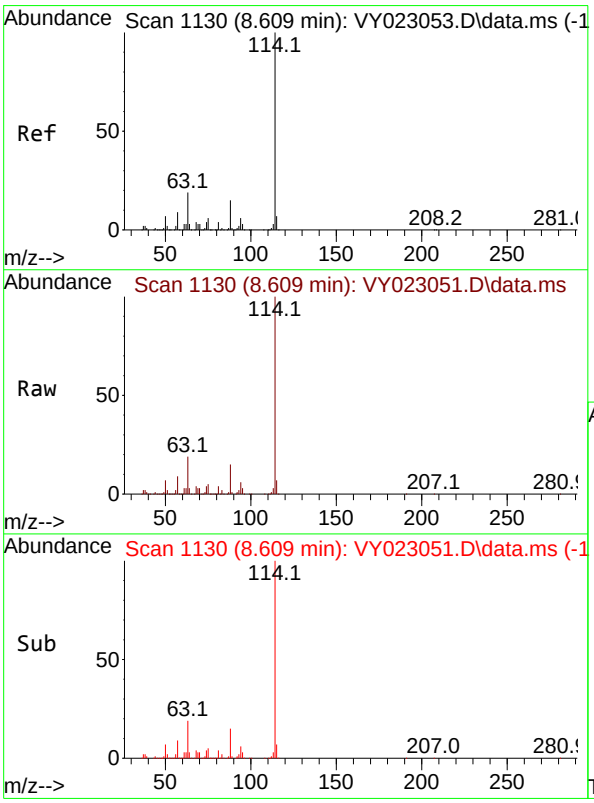

#33
1,2-Dichloroethane-d4
Concen: 10.274 ug/l
RT: 8.061 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 65 Resp: 54002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.0 | 0.0 | 106.8 |

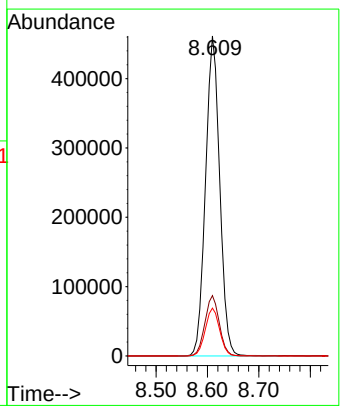


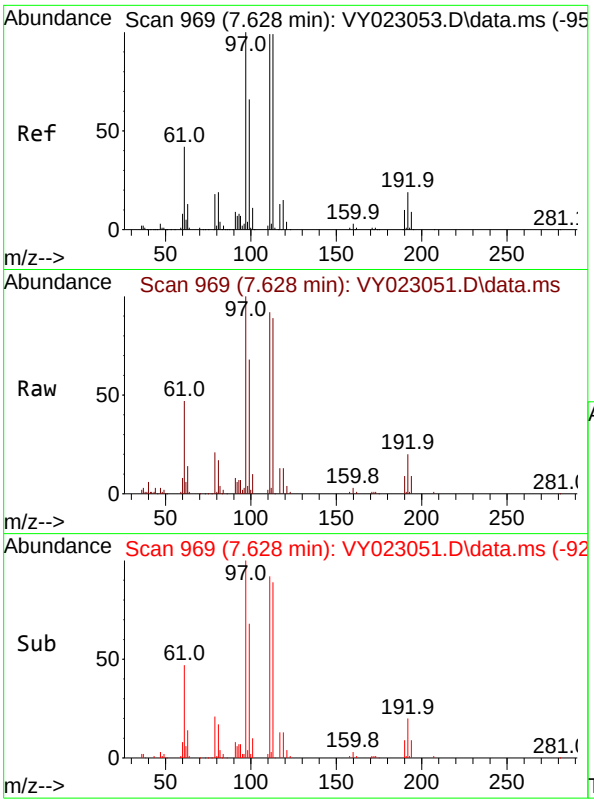




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:114 Resp: 883548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.9 | 0.0 | 38.4 |
| 88 | 14.9 | 0.0 | 30.0 |



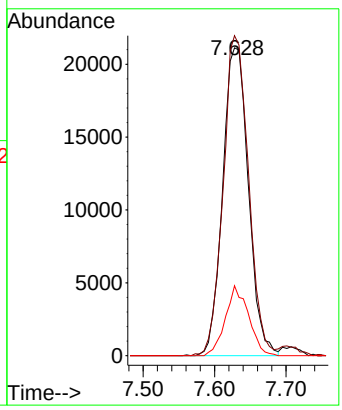


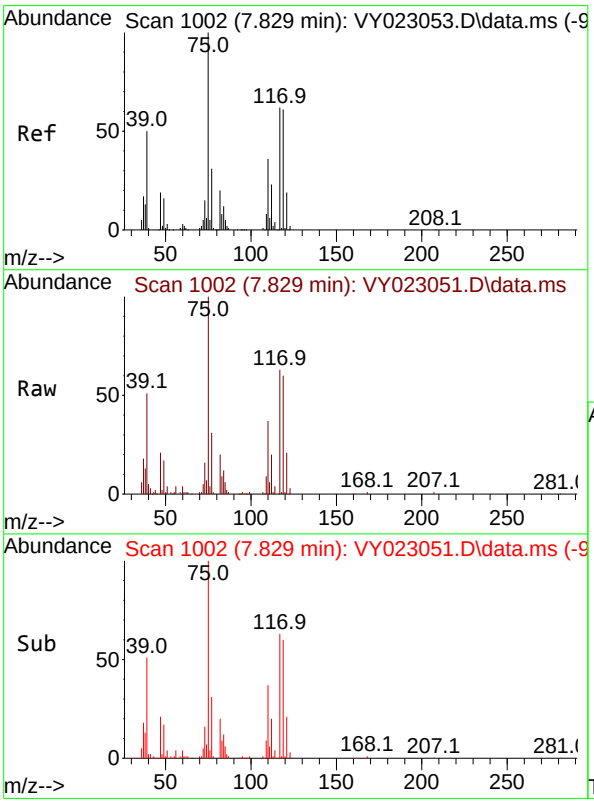

#35
Dibromofluoromethane
Concen: 10.009 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:113 Resp: 52916

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.1 | 81.1 | 121.7 |
| 192 | 20.5 | 16.2 | 24.4 |

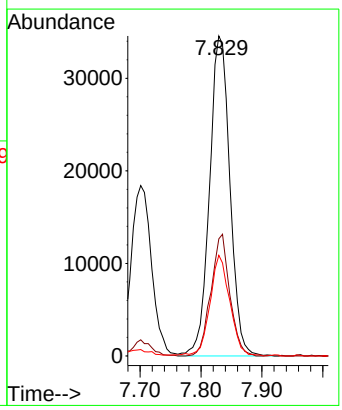


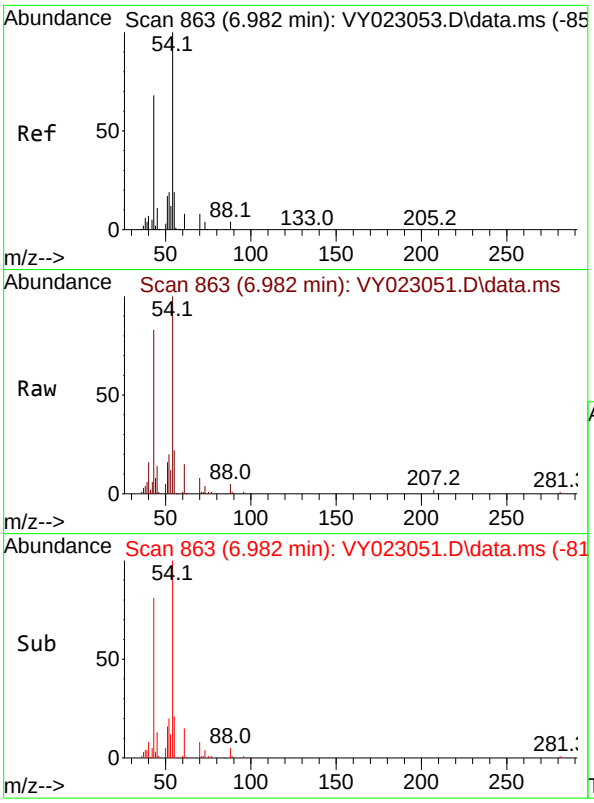




#36
1,1-Dichloropropene
Concen: 10.243 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 75 Resp: 80479

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.2 | 18.1 | 54.4 |
| 77 | 30.7 | 24.6 | 37.0 |



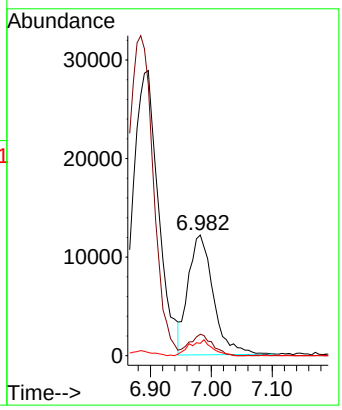


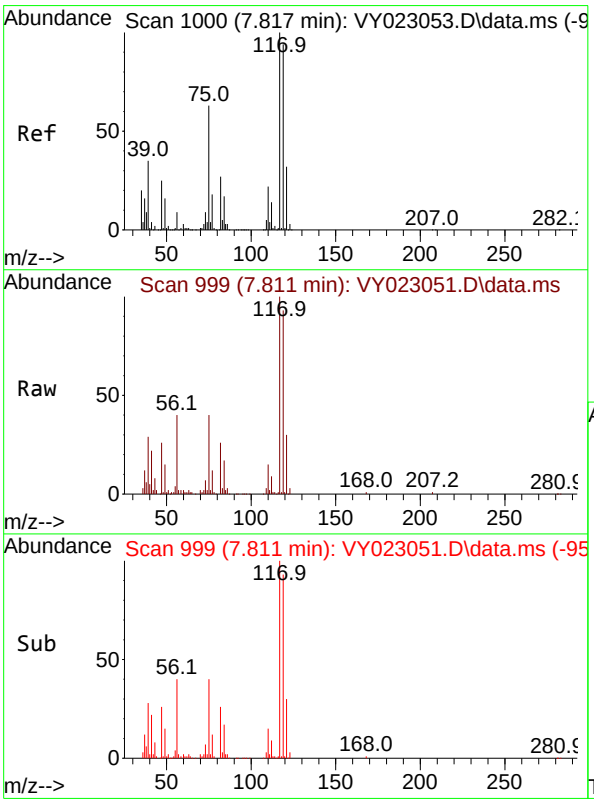

#37
Ethyl Acetate
Concen: 10.560 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 43 Resp: 34854

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 16.5 | 11.9 | 17.9 |
| 70 | 11.7 | 8.8 | 13.2 |

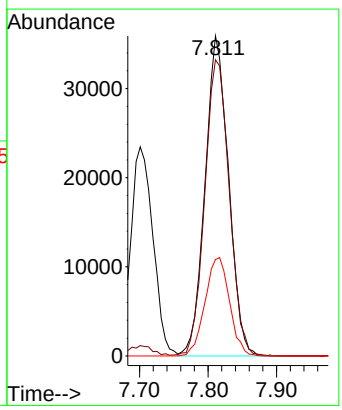


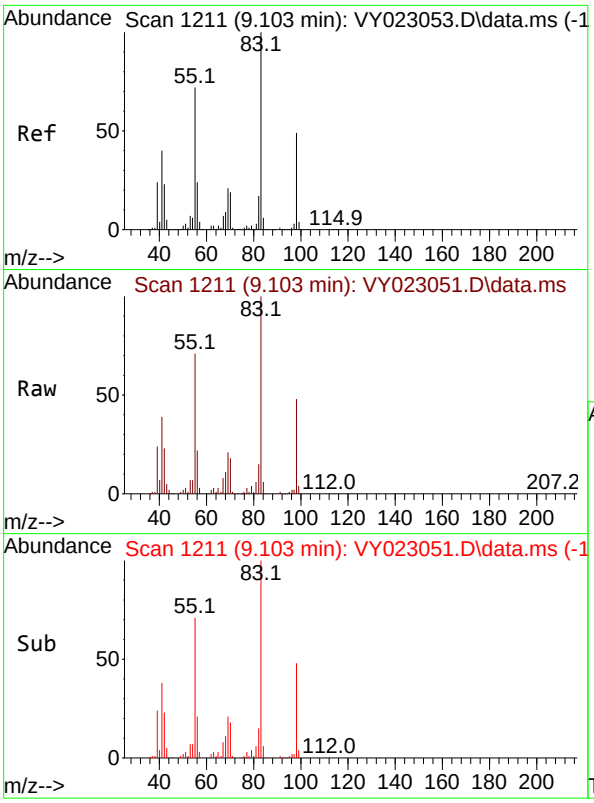




#38
Carbon Tetrachloride
Concen: 10.070 ug/l
RT: 7.811 min Scan# 999
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:117 Resp: 85932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 92.5 | 75.6 | 113.4 |
| 121 | 30.1 | 25.8 | 38.8 |



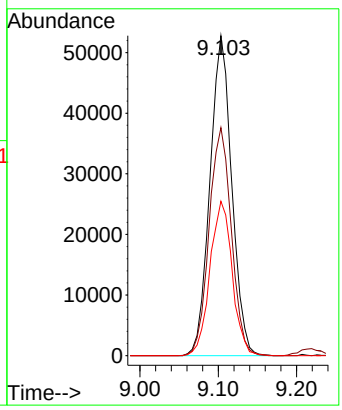


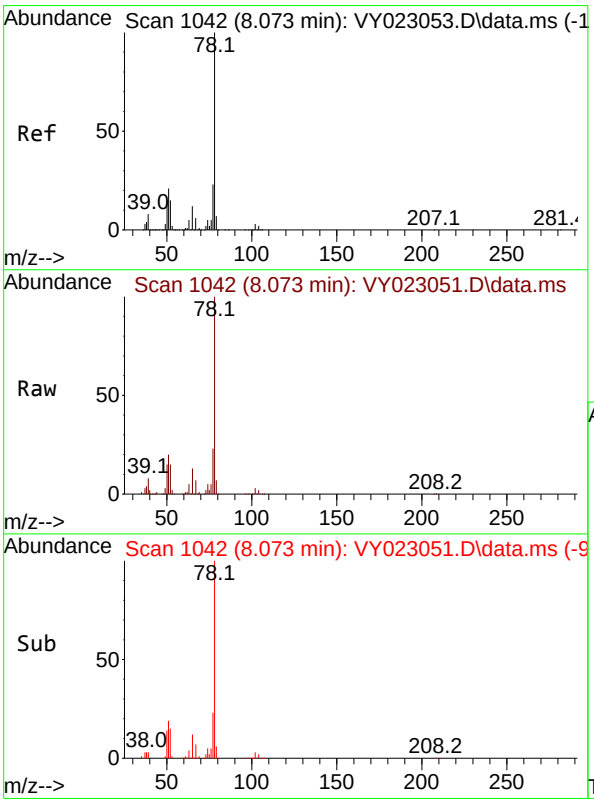

#39
Methylcyclohexane
Concen: 9.885 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 83 Resp: 102275

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 71.3 | 57.6 | 86.4 |
| 98 | 48.2 | 39.2 | 58.8 |

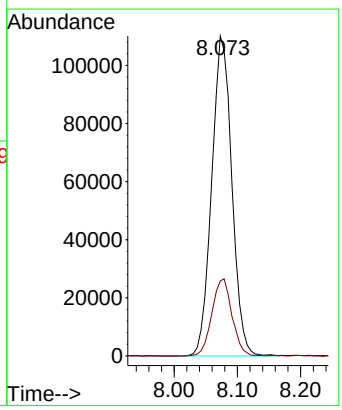


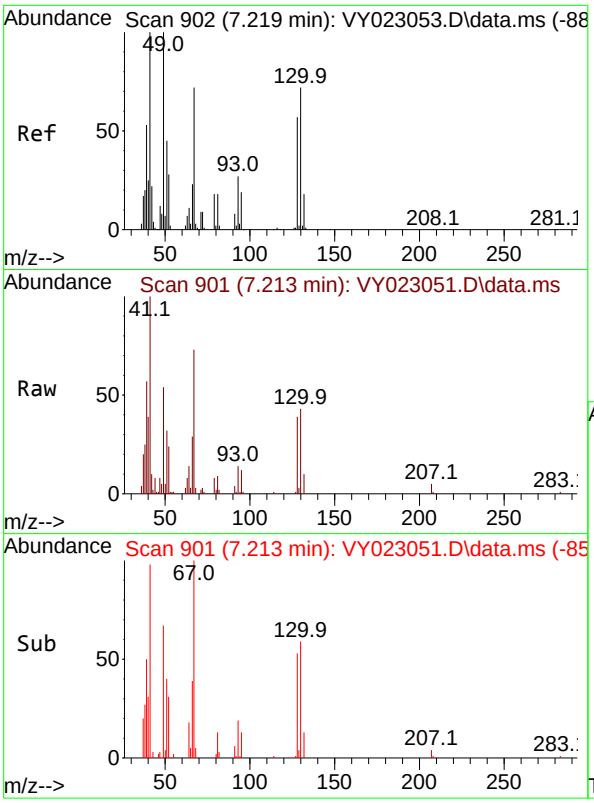




#40
Benzene
Concen: 10.037 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 78 Resp: 243060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.4 | 18.6 | 28.0 |



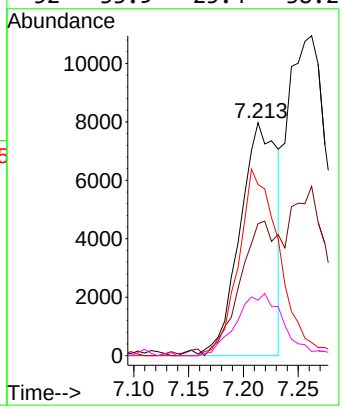


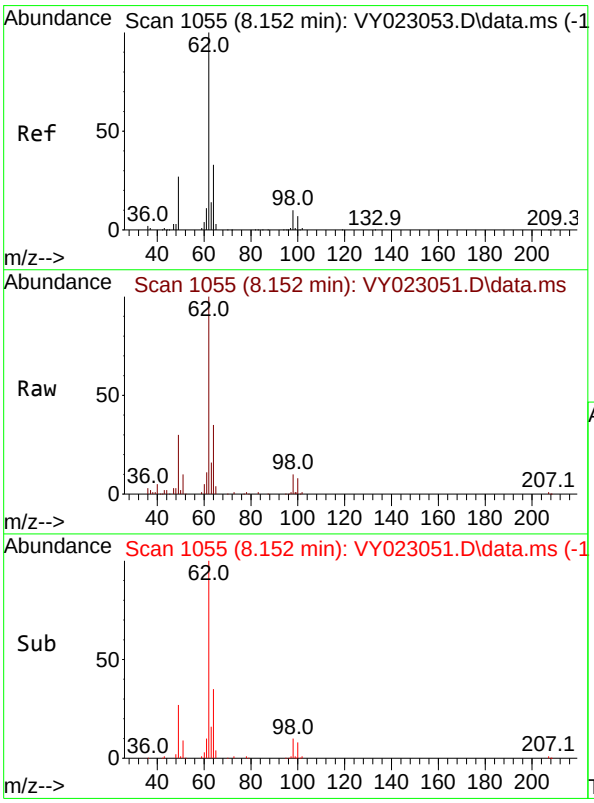

#41
Methacrylonitrile
Concen: 9.872 ug/l
RT: 7.213 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 41 Resp: 18825

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 66.1 | 43.4 | 65.2# |
| 67 | 88.6 | 63.6 | 95.4 |
| 52 | 33.9 | 25.4 | 38.2 |

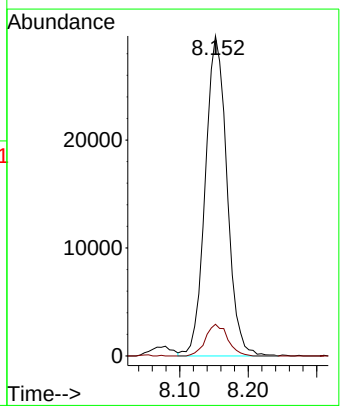


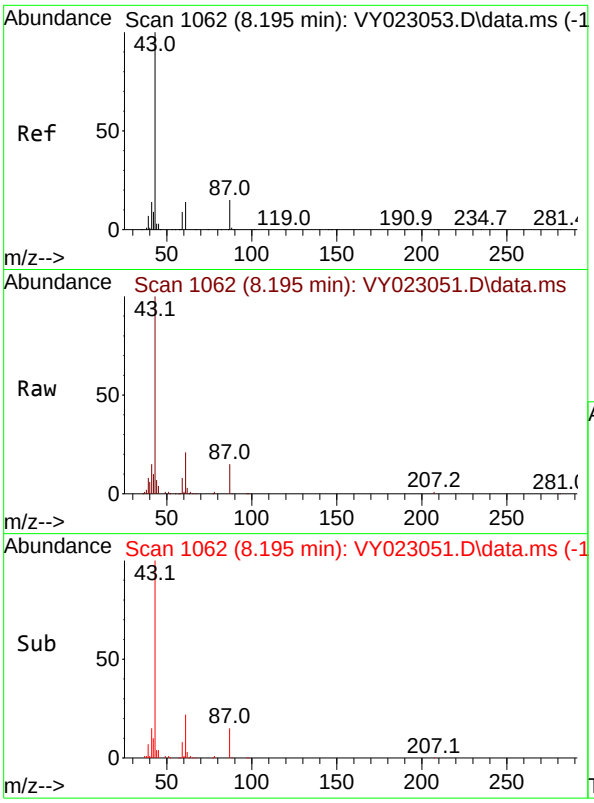




#42
1,2-Dichloroethane
Concen: 10.376 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 62 Resp: 65350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.1 | 0.0 | 20.6 |



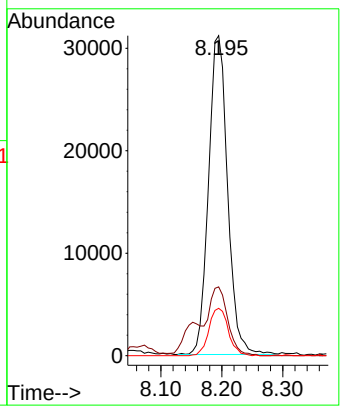


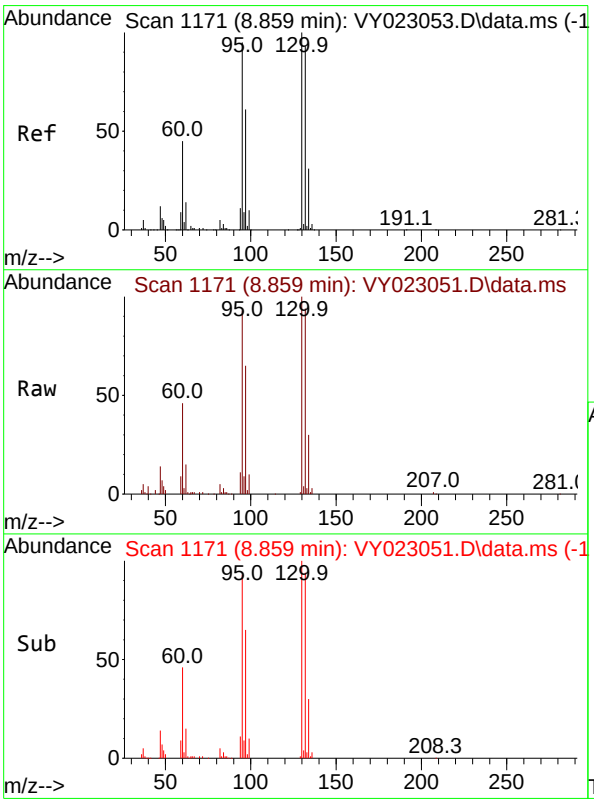

#43
Isopropyl Acetate
Concen: 10.144 ug/l
RT: 8.195 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 43 Resp: 67669

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 20.8 | 16.4 | 24.6 |
| 87 | 15.2 | 11.8 | 17.6 |

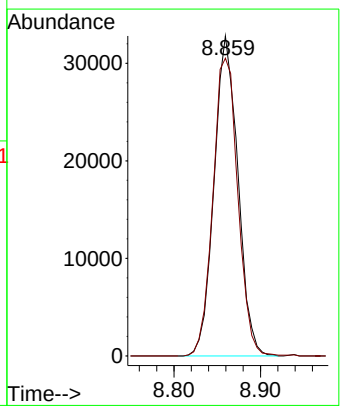


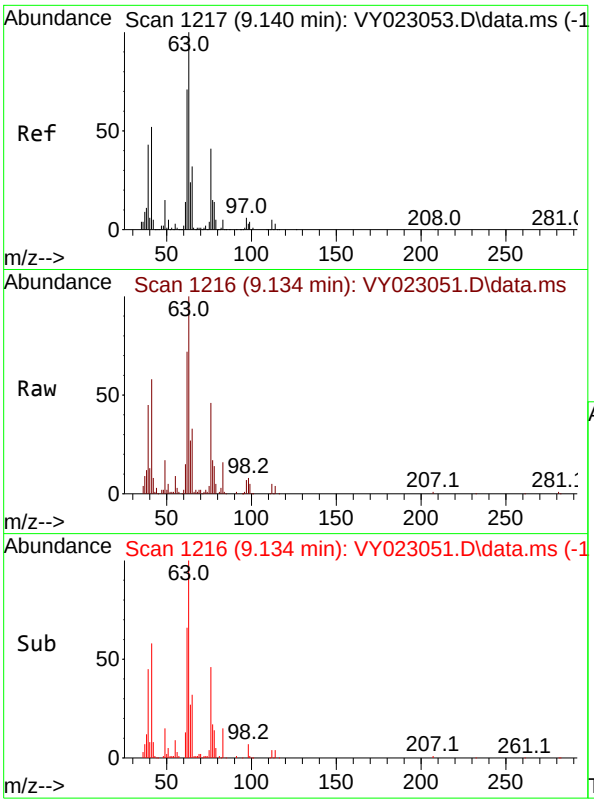




#44
Trichloroethene
Concen: 10.017 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:130 Resp: 62689

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 93.0 | 0.0 | 190.2 |



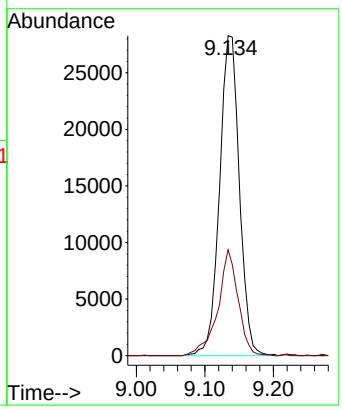


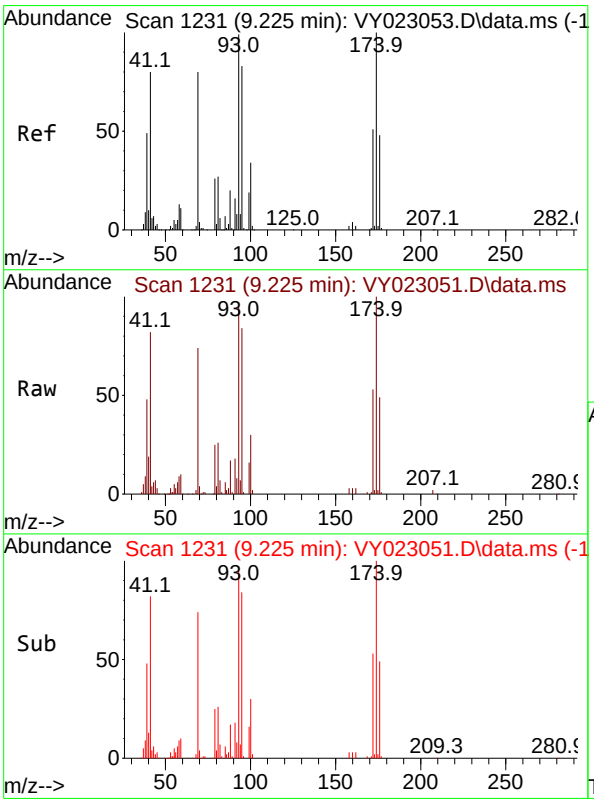

#45
1,2-Dichloropropane
Concen: 10.179 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 63 Resp: 56720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 33.1 | 25.3 | 37.9 |

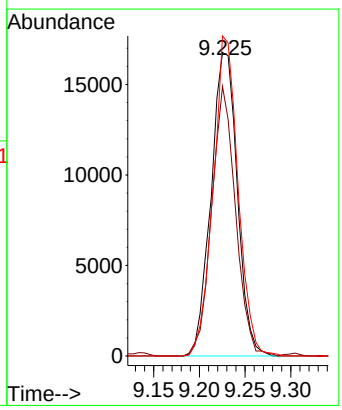


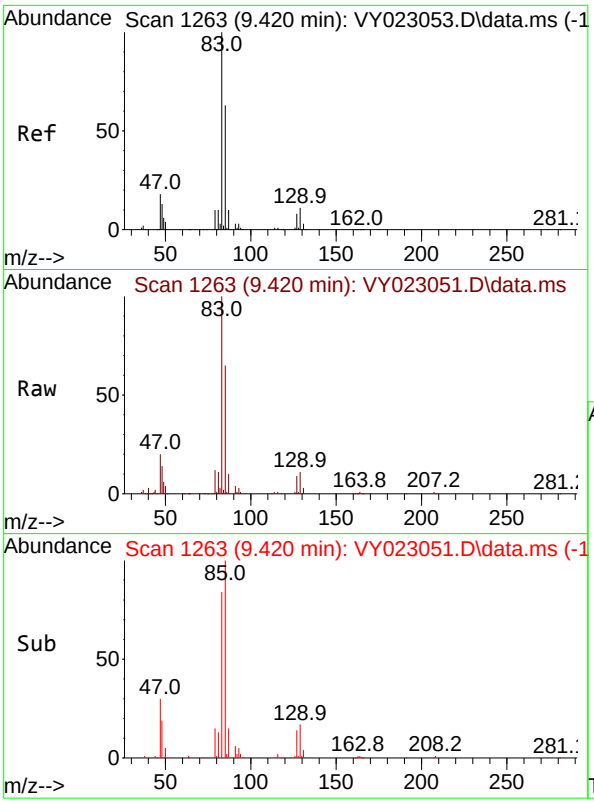




#46
Dibromomethane
Concen: 10.462 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 93 Resp: 33460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 80.9 | 66.5 | 99.7 |
| 174 | 100.0 | 81.8 | 122.8 |



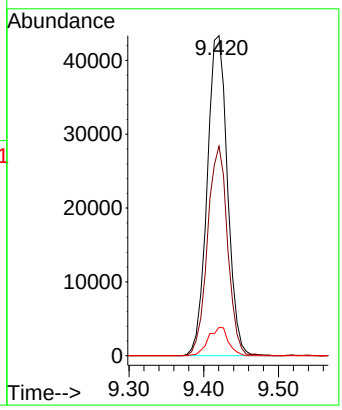


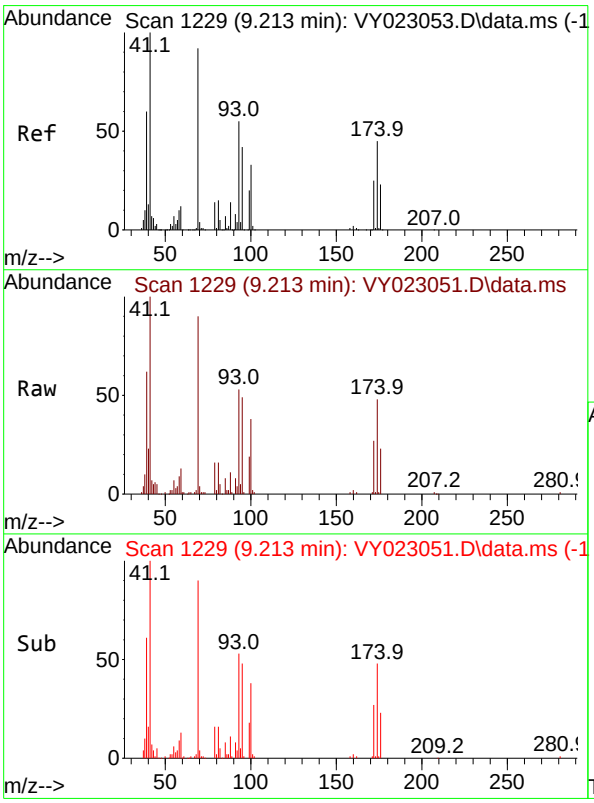

#47
Bromodichloromethane
Concen: 9.959 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 83 Resp: 81951

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.5 | 50.2 | 75.4 |
| 127 | 8.8 | 6.6 | 10.0 |

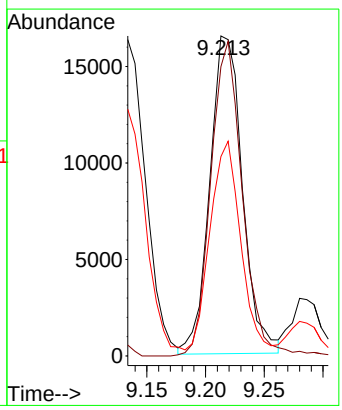


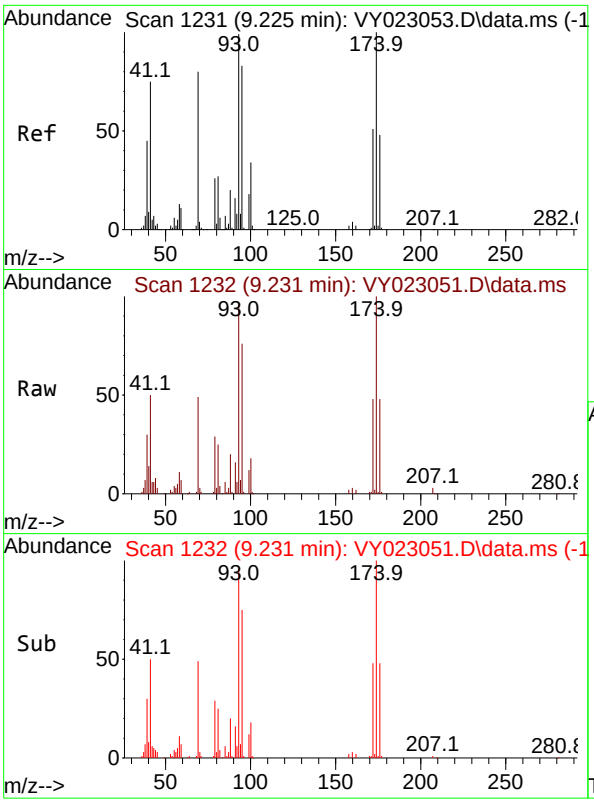




#48
Methyl methacrylate
Concen: 9.978 ug/l
RT: 9.213 min Scan# 1229
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 41 Resp: 31851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 96.0 | 73.2 | 109.8 |
| 39 | 60.9 | 47.0 | 70.4 |



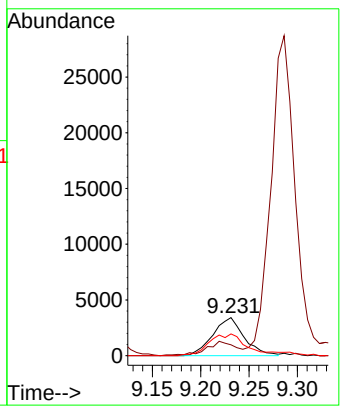


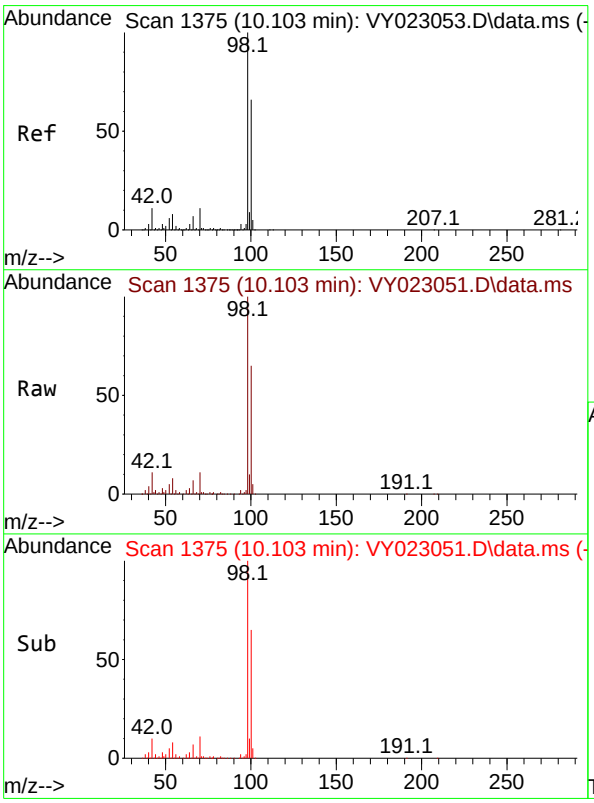

#49
1,4-Dioxane
Concen: 205.471 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 88 Resp: 7705

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 35.3 | 24.3 | 36.5 |
| 58 | 73.3 | 55.4 | 83.0 |

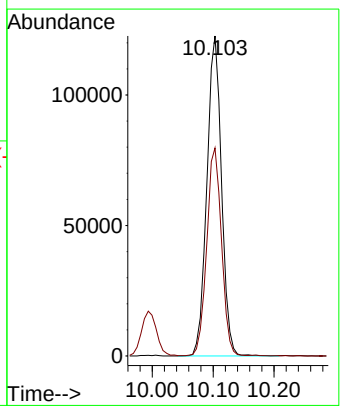


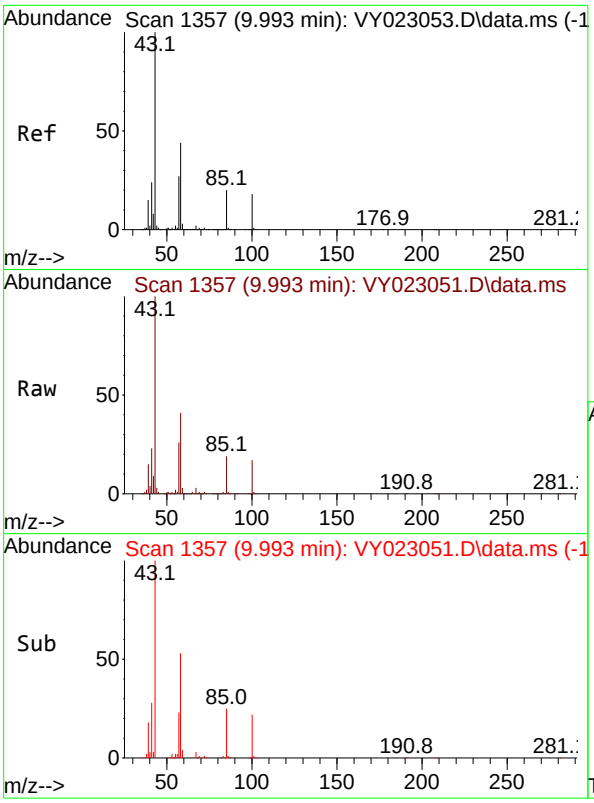




#50
Toluene-d8
Concen: 9.903 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 98 Resp: 204532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.2 | 52.3 | 78.5 |



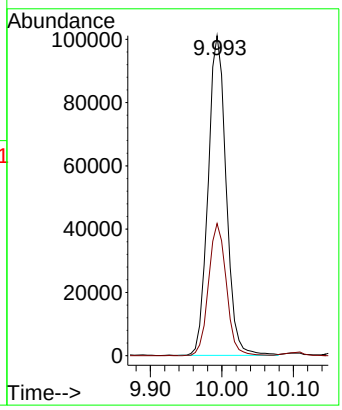


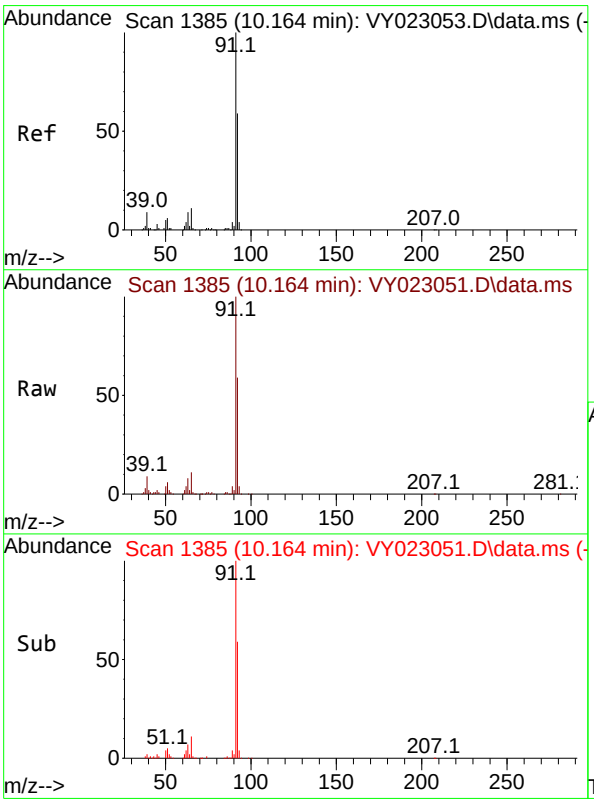

#51
4-Methyl-2-Pentanone
Concen: 51.484 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 43 Resp: 177157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 40.7 | 33.5 | 50.3 |

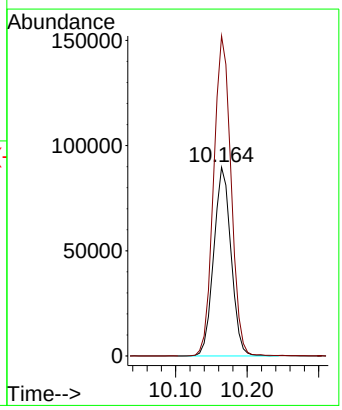


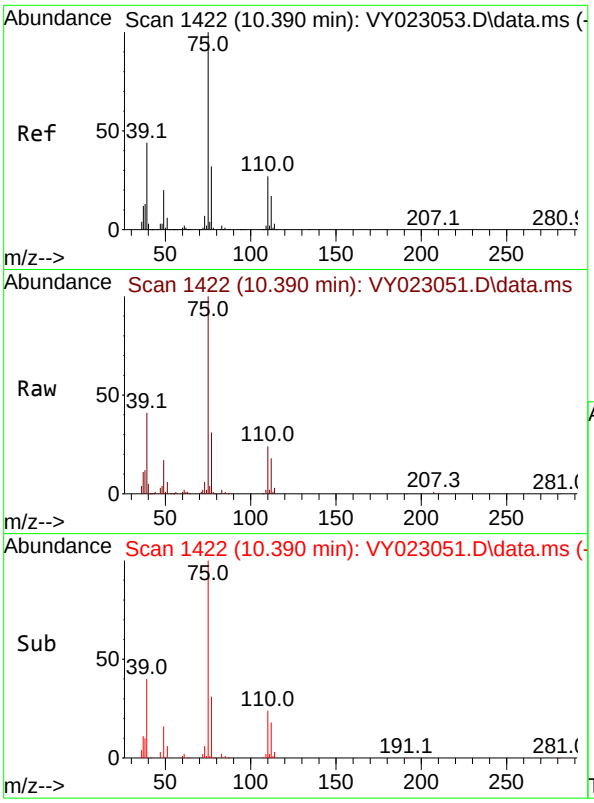




#52
Toluene
Concen: 9.780 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 92 Resp: 150422

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 171.3 | 136.4 | 204.6 |



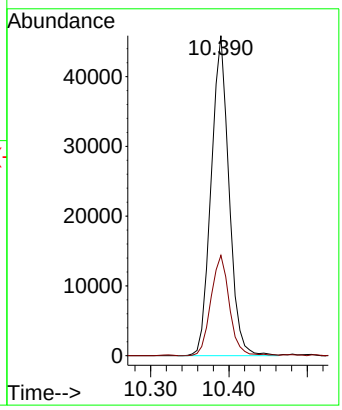


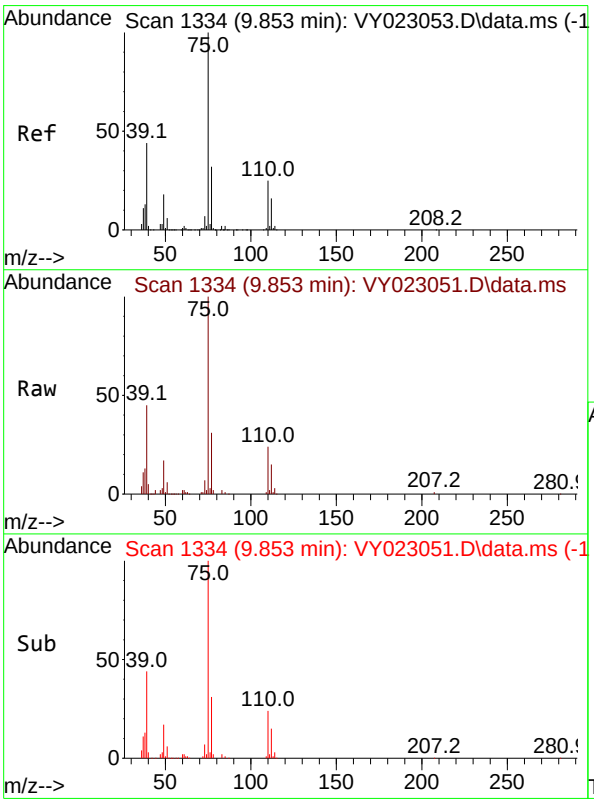

#53
t-1,3-Dichloropropene
Concen: 9.730 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 75 Resp: 72507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.4 | 25.7 | 38.5 |

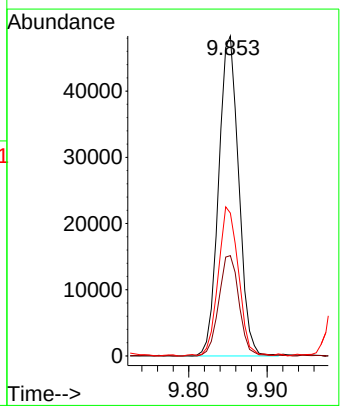


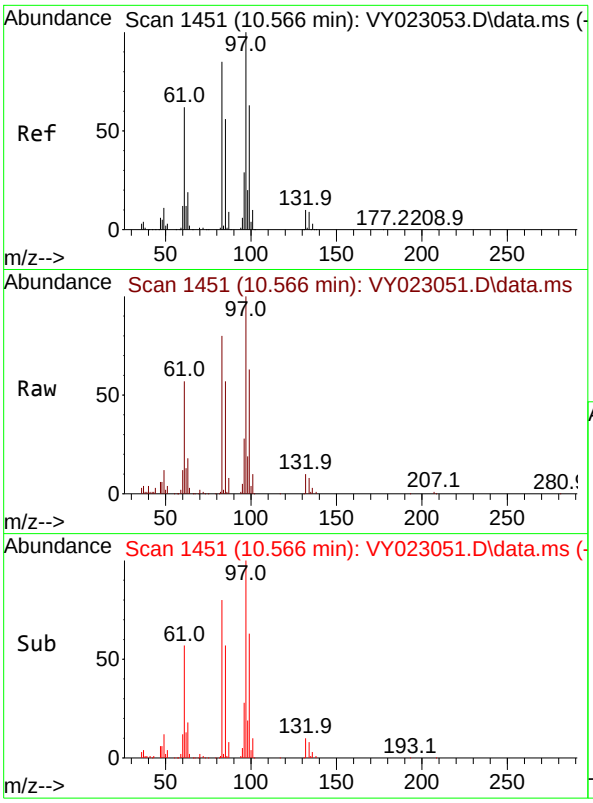




#54
cis-1,3-Dichloropropene
Concen: 9.753 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 75 Resp: 85945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.4 | 25.4 | 38.0 |
| 39 | 44.6 | 35.6 | 53.4 |



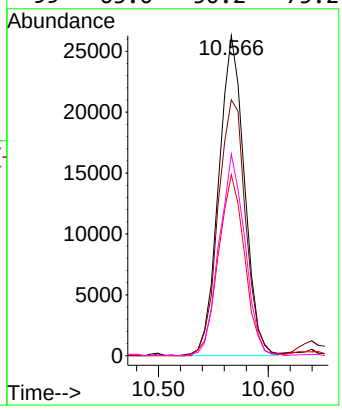


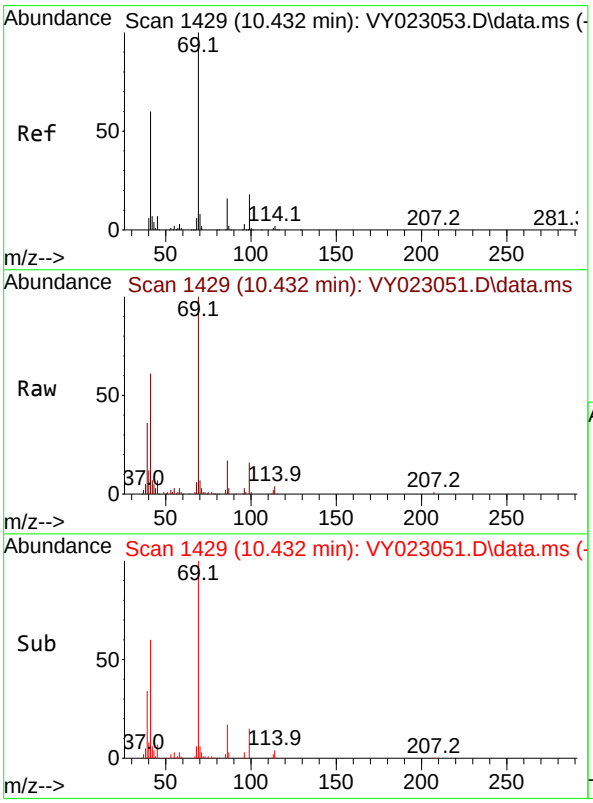

#55
1,1,2-Trichloroethane
Concen: 9.981 ug/l
RT: 10.566 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 97 Resp: 42712

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 79.9 | 67.7 | 101.5 |
| 85 | 56.6 | 44.5 | 66.7 |
| 99 | 63.0 | 50.2 | 75.2 |

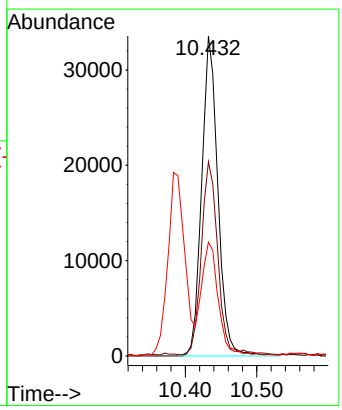


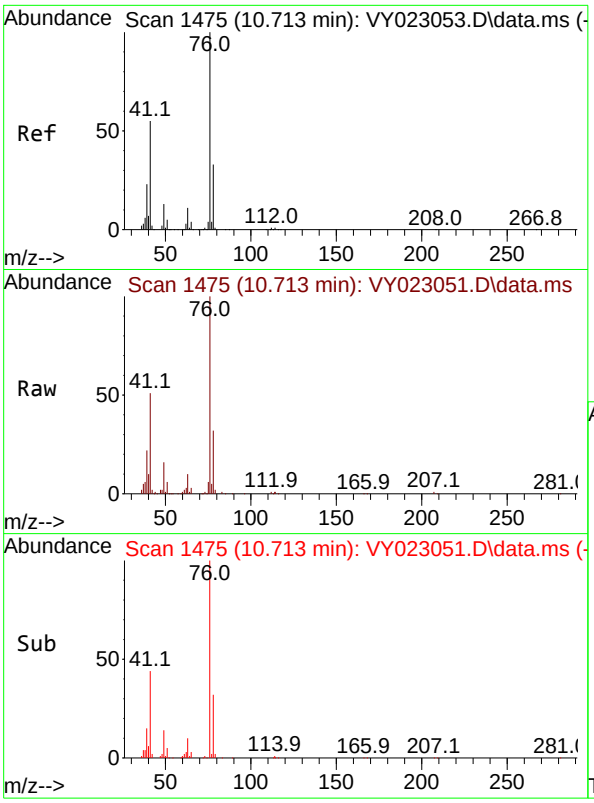




#56
Ethyl methacrylate
Concen: 9.632 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 69 Resp: 52746

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 61.0 | 48.6 | 72.8 |
| 39 | 35.9 | 27.0 | 40.4 |



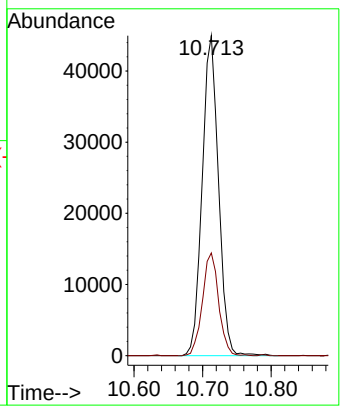


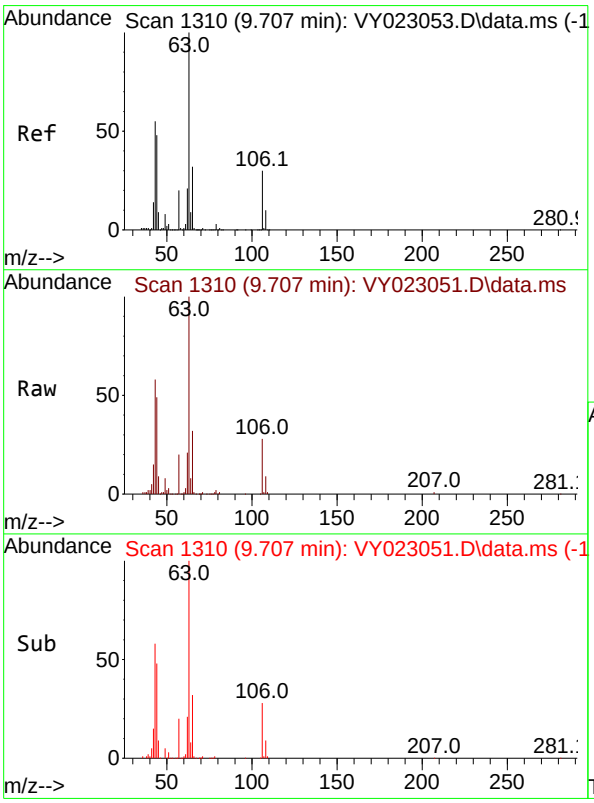

#57
1,3-Dichloropropane
Concen: 10.256 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 76 Resp: 74433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.0 | 26.0 | 39.0 |

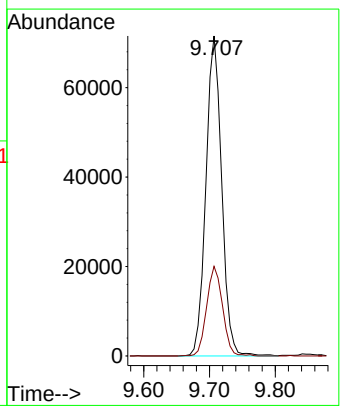


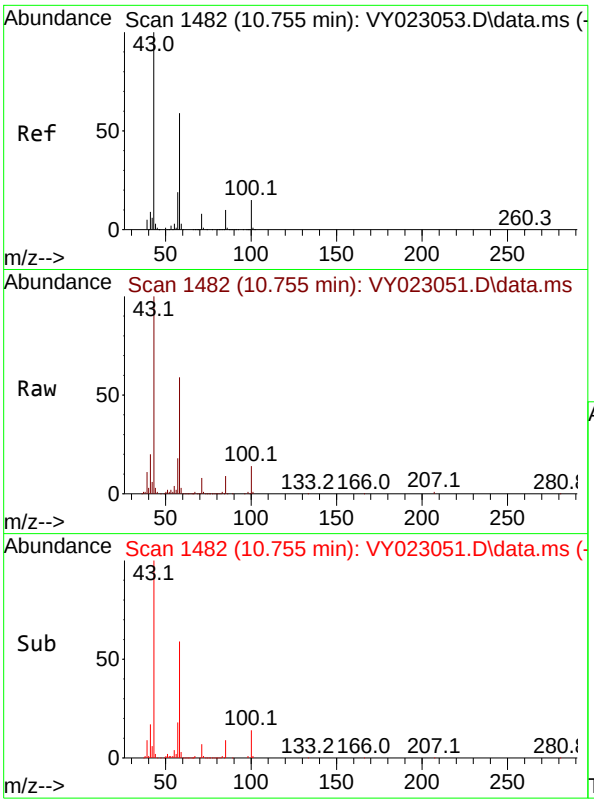




#58
2-Chloroethyl Vinyl ether
Concen: 46.232 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 63 Resp: 119417

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 28.2 | 23.2 | 34.8 |



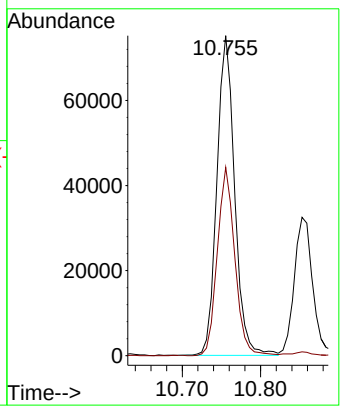


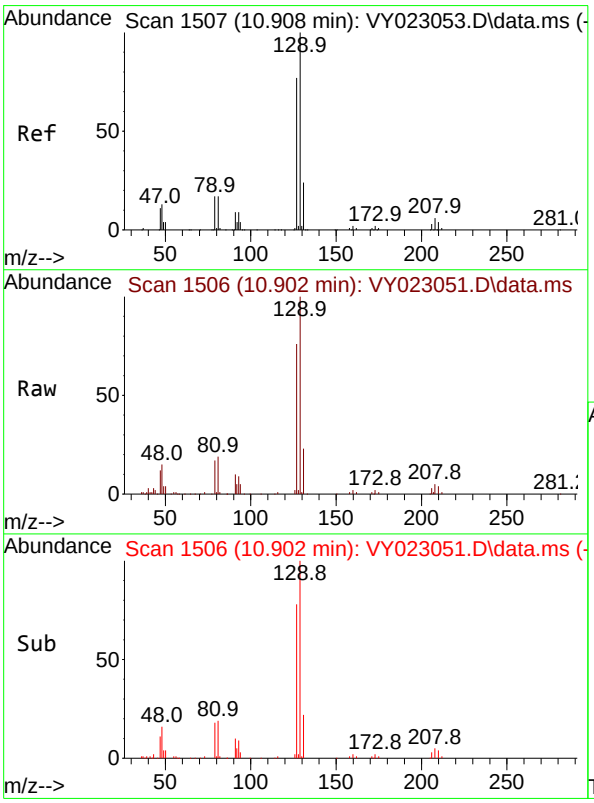

#59
2-Hexanone
Concen: 50.553 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 43 Resp: 118452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 58.3 | 29.5 | 88.5 |

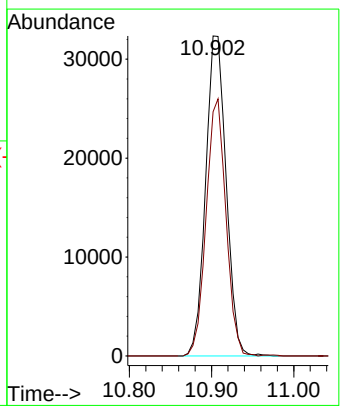


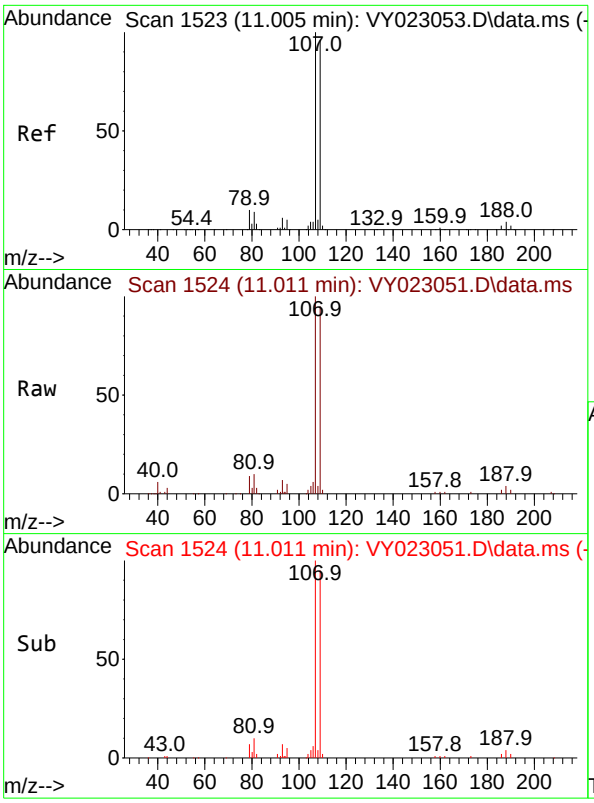




#60
Dibromochloromethane
Concen: 9.925 ug/l
RT: 10.902 min Scan# 1506
Delta R.T. -0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:129 Resp: 56045

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.5 | 38.5 | 115.5 |



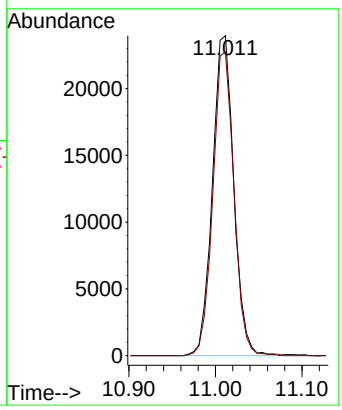


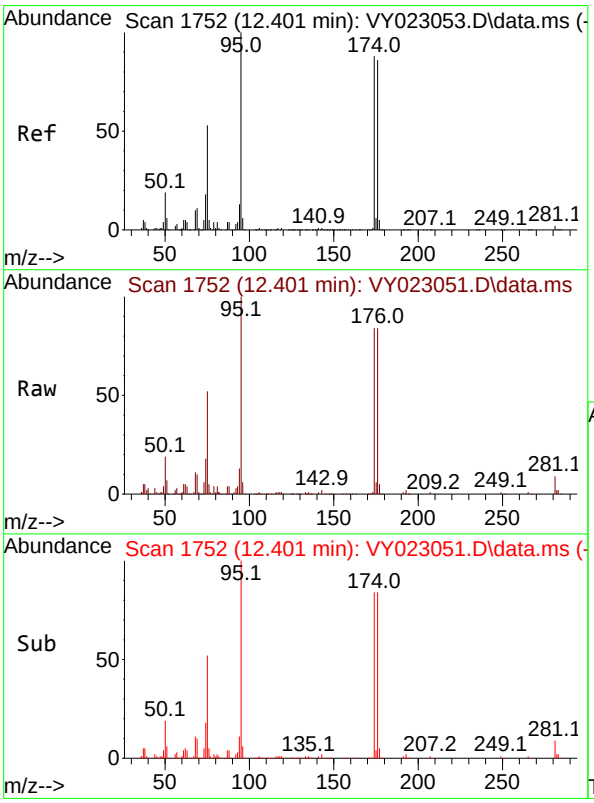

#61
1,2-Dibromoethane
Concen: 10.196 ug/l
RT: 11.011 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:107 Resp: 41009

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.8 | 75.6 | 113.4 |

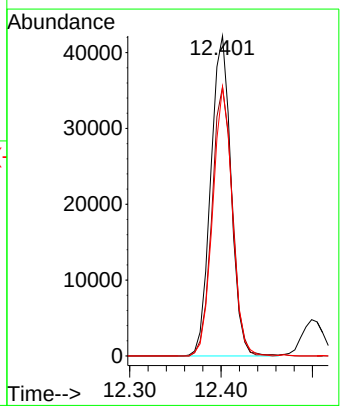


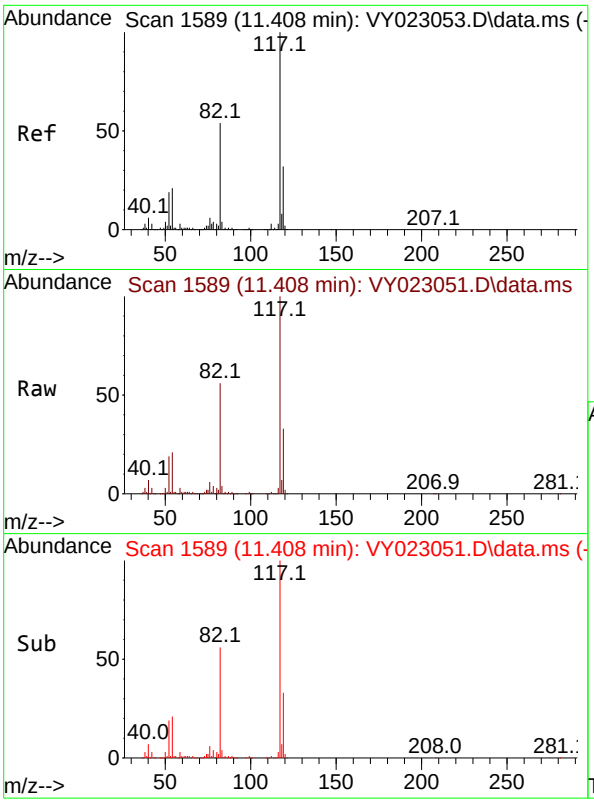




#62
4-Bromofluorobenzene
Concen: 9.775 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 95 Resp: 64927

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 84.8 | 0.0 | 171.6 |
| 176 | 81.7 | 0.0 | 167.6 |



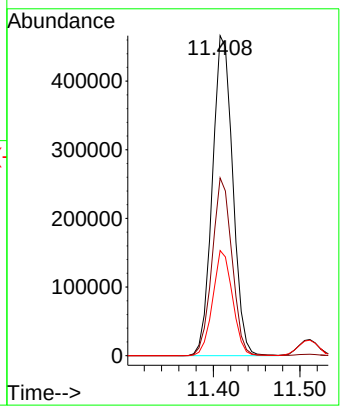


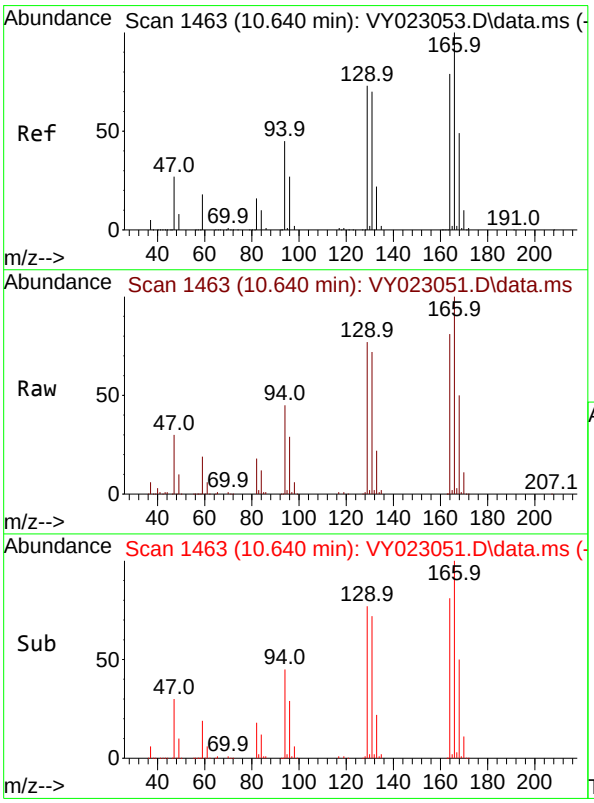

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:117 Resp: 761327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 55.6 | 43.4 | 65.0 |
| 119 | 32.8 | 25.6 | 38.4 |

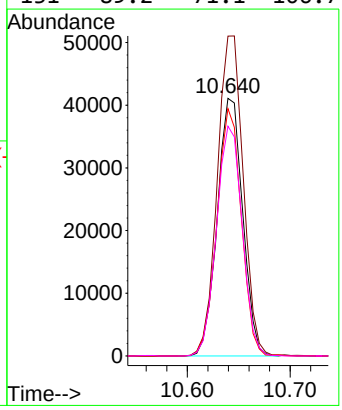


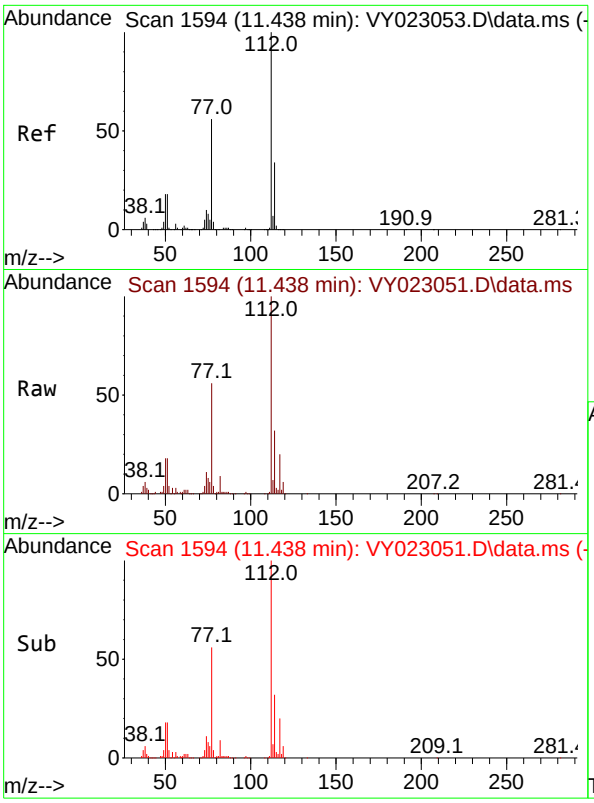




#64
Tetrachloroethene
Concen: 10.371 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:164 Resp: 70502

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 124.2 | 101.1 | 151.7 |
| 129 | 96.0 | 74.0 | 111.0 |
| 131 | 89.2 | 71.1 | 106.7 |



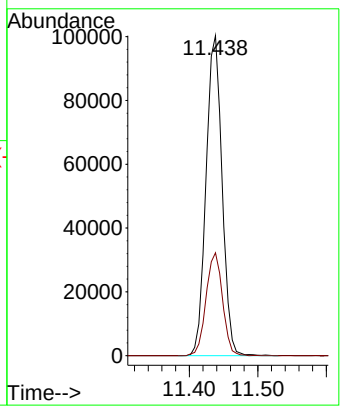


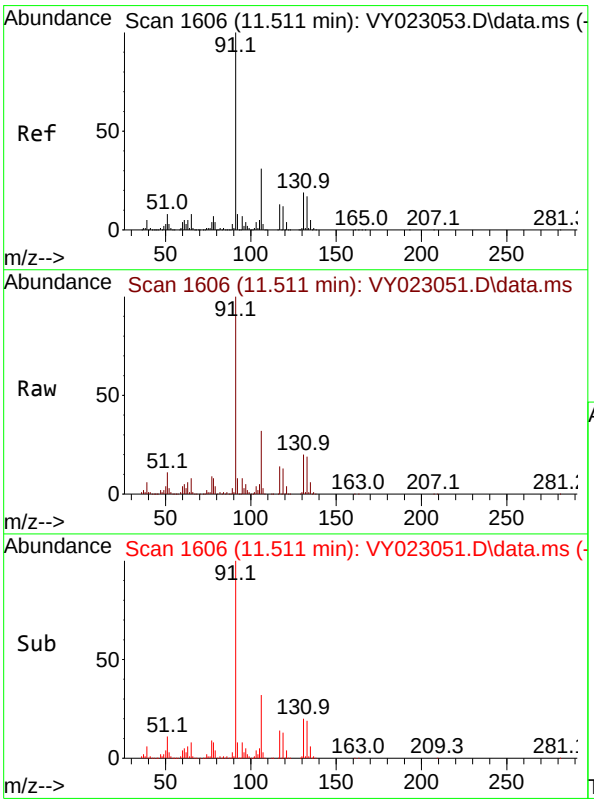

#65
Chlorobenzene
Concen: 9.925 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:112 Resp: 162985

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.2 | 27.0 | 40.4 |

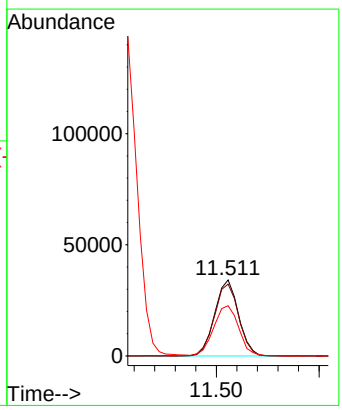


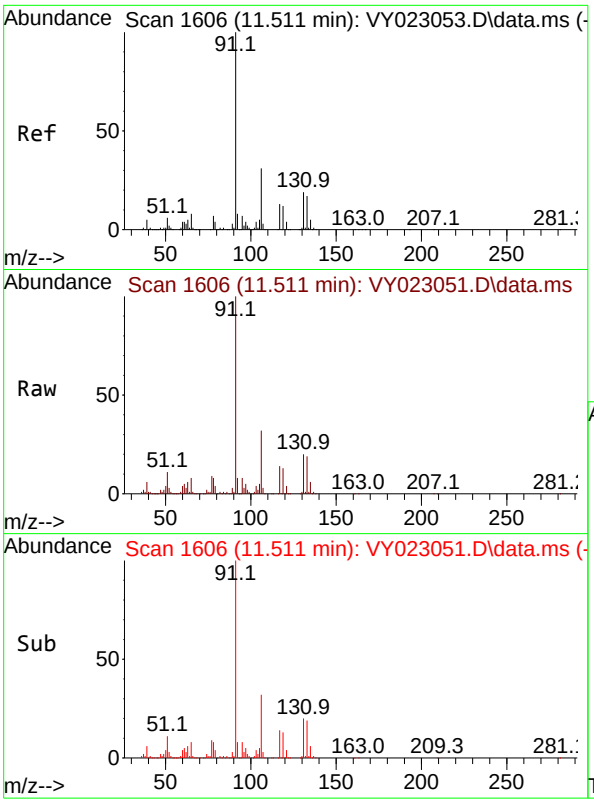




#66
1,1,1,2-Tetrachloroethane
Concen: 9.842 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:131 Resp: 54856

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 96.5 | 46.9 | 140.6 |
| 119 | 69.8 | 33.2 | 99.6 |



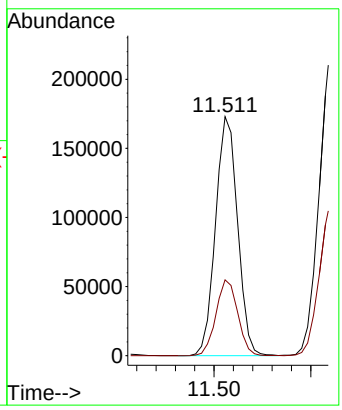


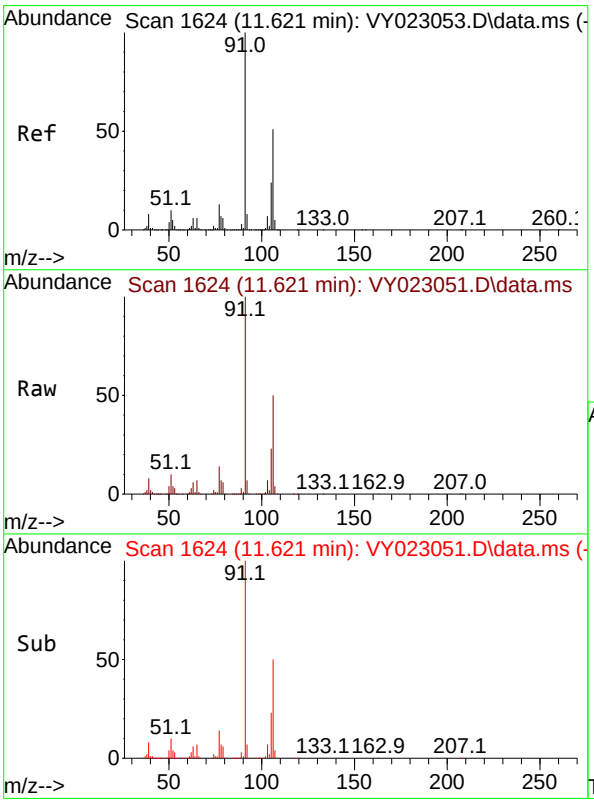

#67
Ethyl Benzene
Concen: 9.670 ug/l
RT: 11.511 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 91 Resp: 273281

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.8 | 25.0 | 37.4 |

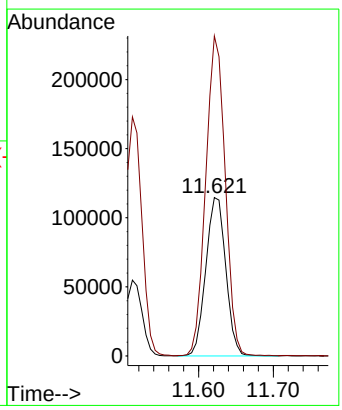


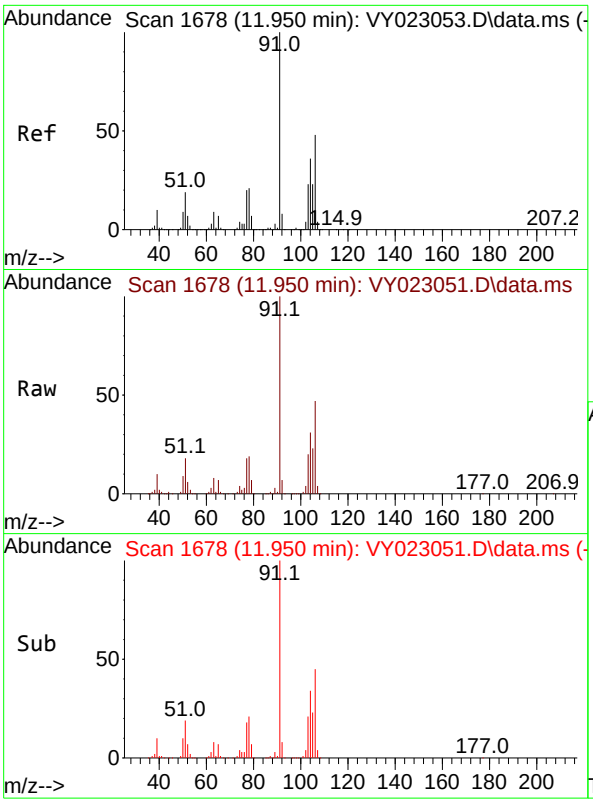




#68
m/p-Xylenes
Concen: 19.277 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:106 Resp: 212766

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 196.5 | 158.6 | 238.0 |



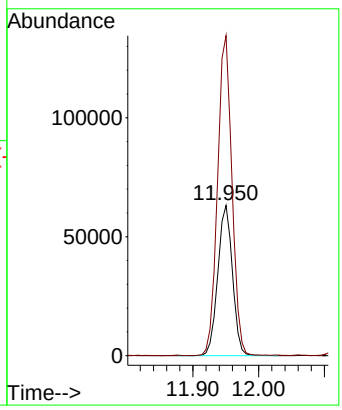


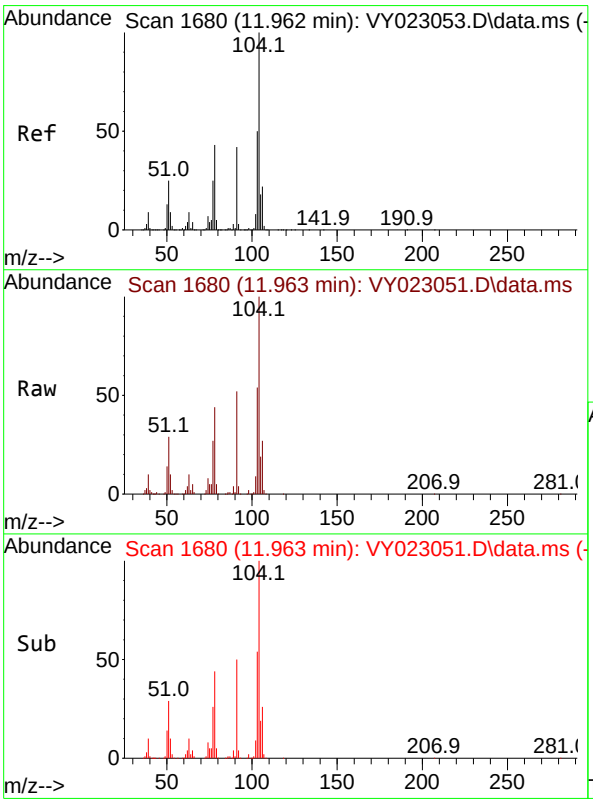

#69
o-Xylene
Concen: 9.465 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:106 Resp: 97841

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 210.2 | 103.2 | 309.4 |

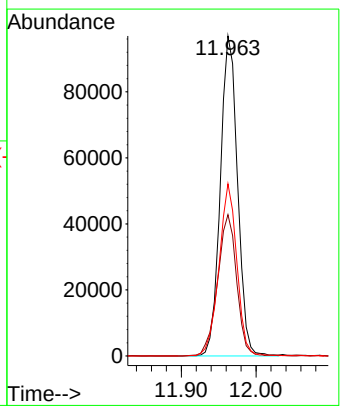


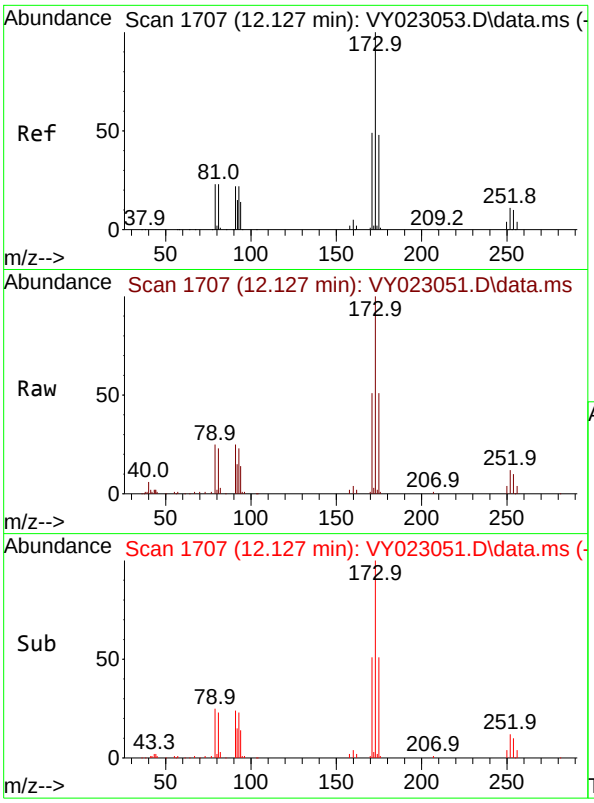




#70
Styrene
Concen: 9.216 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:104 Resp: 155809

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 48.8 | 38.5 | 57.7 |
| 103 | 55.6 | 43.7 | 65.5 |



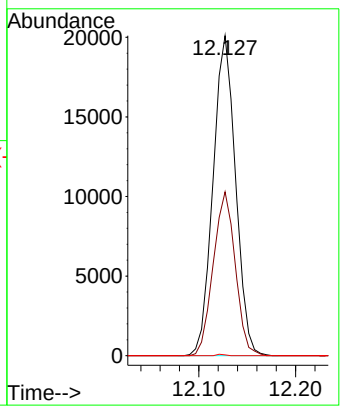


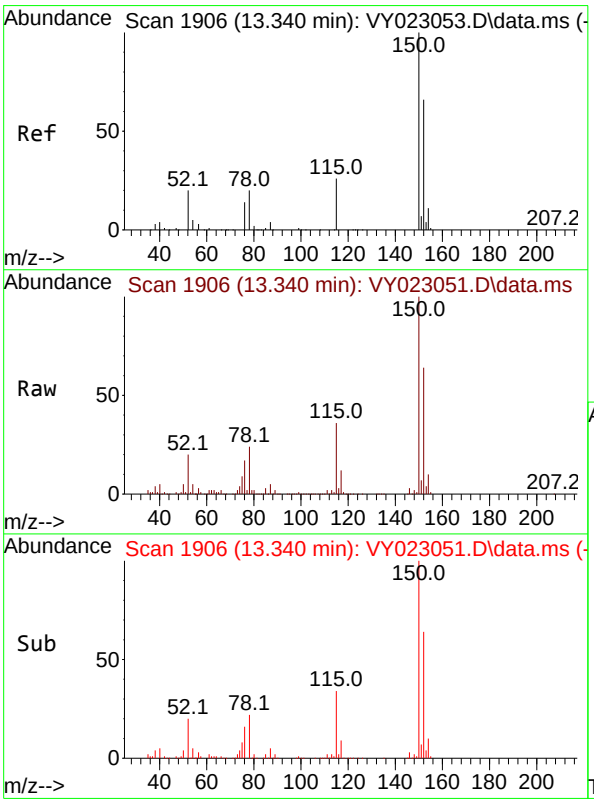

#71
Bromoform
Concen: 9.968 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:173 Resp: 32470

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 50.0 | 23.9 | 71.7 |
| 254 | 0.2 | 0.1 | 0.1# |

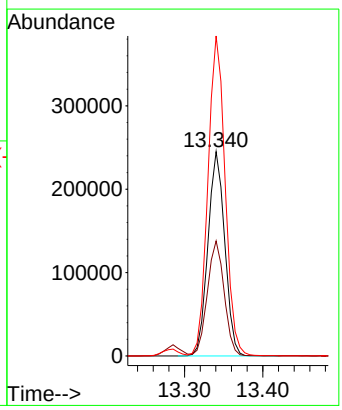


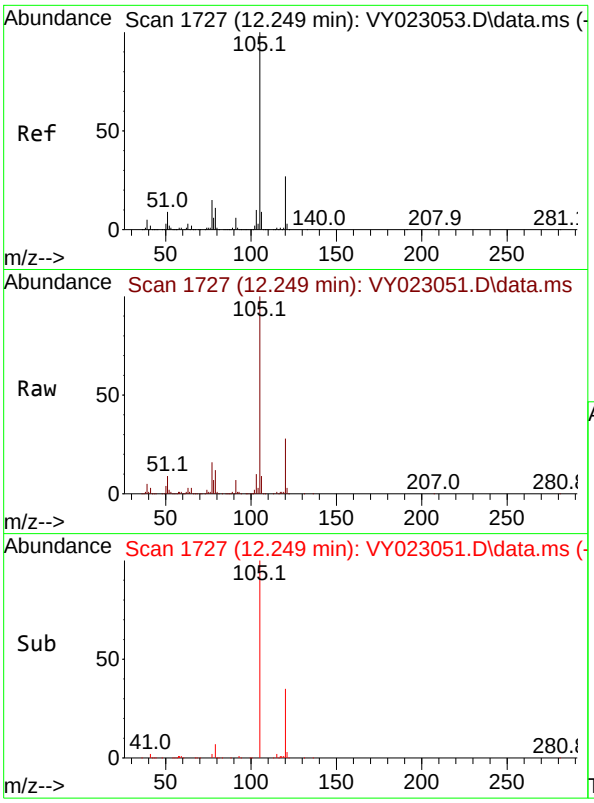




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:152 Resp: 365647

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 56.0 | 28.2 | 84.6 |
| 150 | 159.7 | 0.0 | 348.0 |



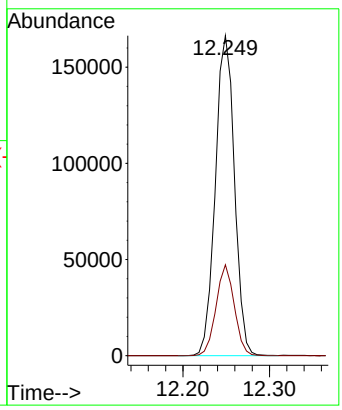


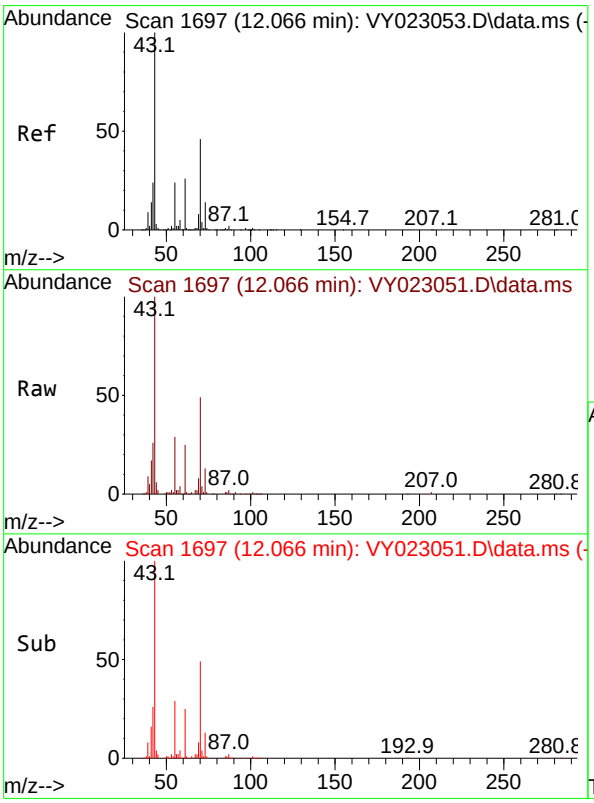

#73
Isopropylbenzene
Concen: 9.871 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:105 Resp: 254745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.1 | 13.4 | 40.2 |

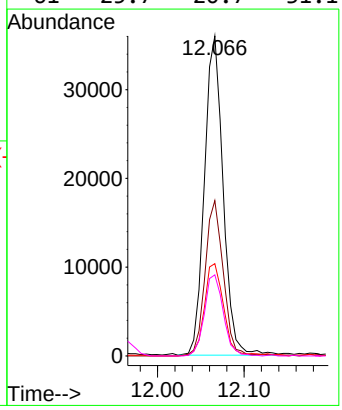


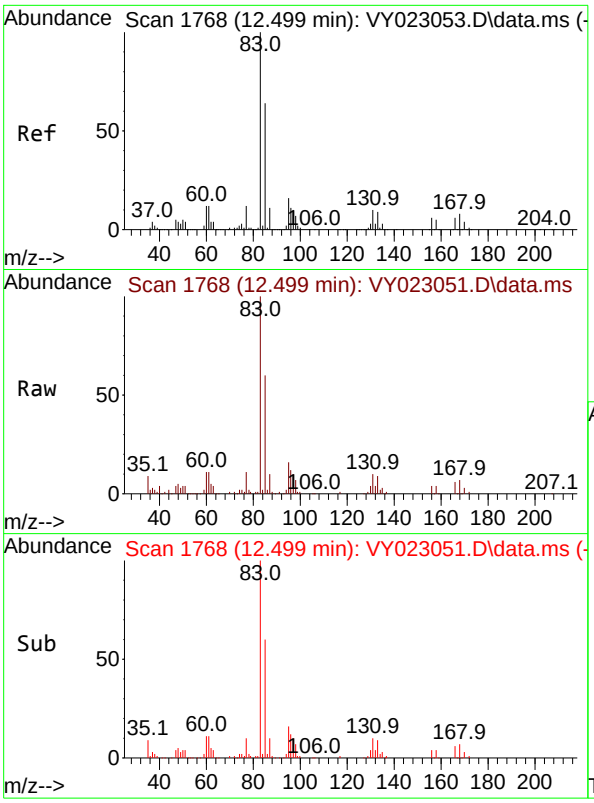




#74
N-amyl acetate
Concen: 9.857 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 43 Resp: 53943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 47.0 | 37.5 | 56.3 |
| 55 | 30.2 | 20.7 | 31.1 |
| 61 | 25.7 | 20.7 | 31.1 |



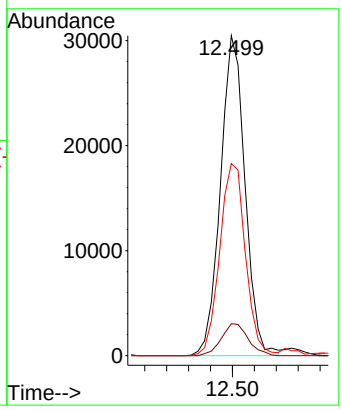


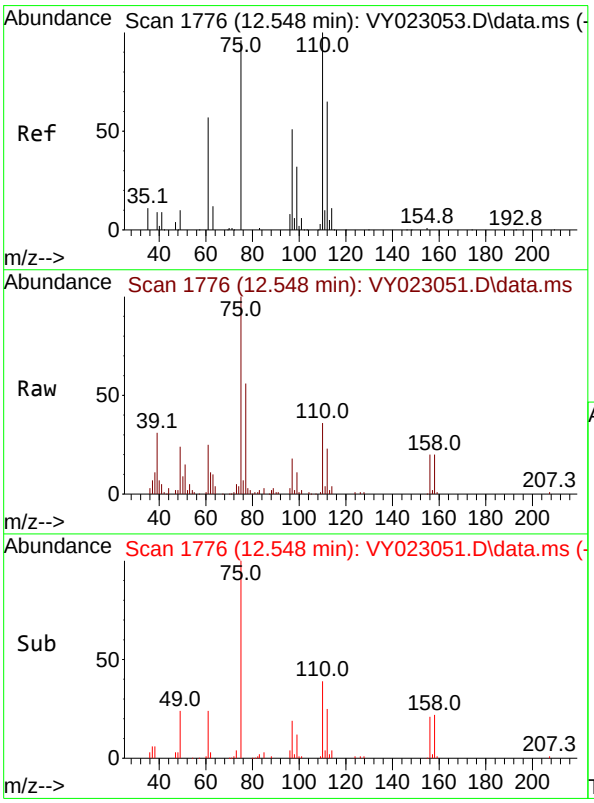

#75
1,1,2,2-Tetrachloroethane
Concen: 10.735 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 83 Resp: 47304

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 11.0 | 5.1 | 15.3 |
| 85 | 62.9 | 31.8 | 95.3 |

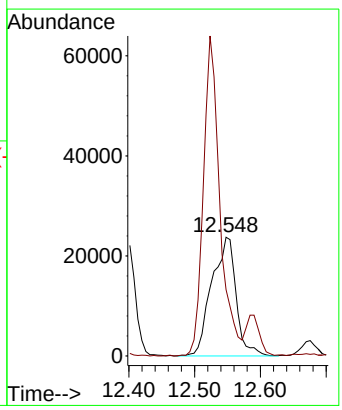


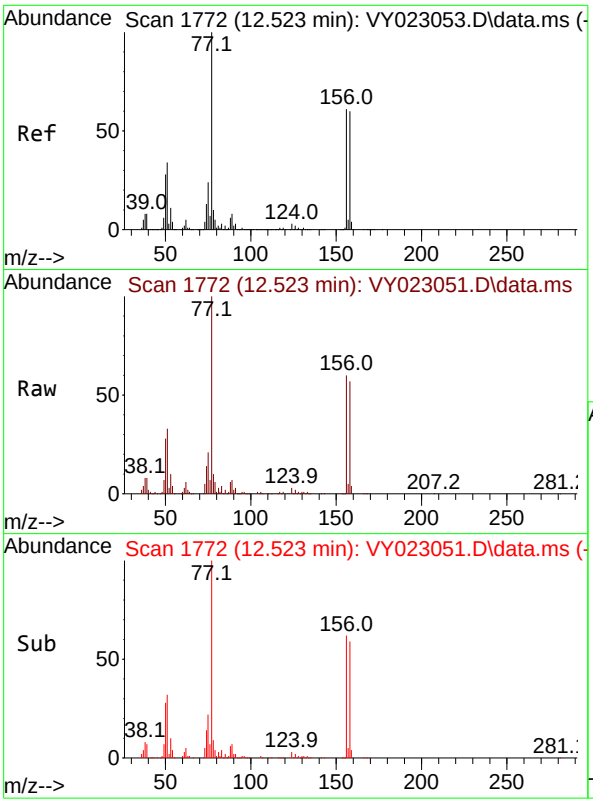




#76
1,2,3-Trichloropropane
Concen: 17.357 ug/l
RT: 12.548 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 75 Resp: 61290

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |



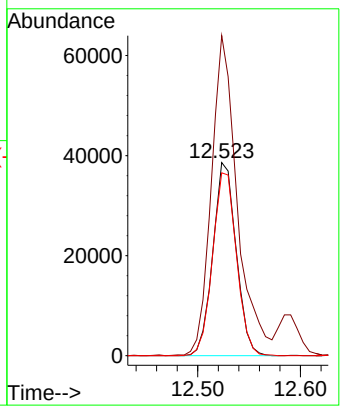


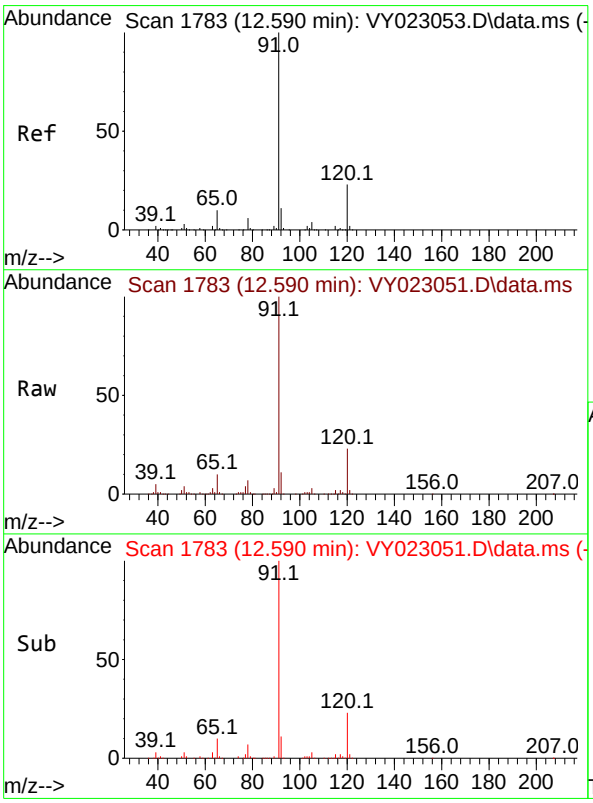

#77
Bromobenzene
Concen: 9.864 ug/l
RT: 12.523 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:156 Resp: 60728

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 184.8 | 88.1 | 264.4 |
| 158 | 97.2 | 48.0 | 144.0 |

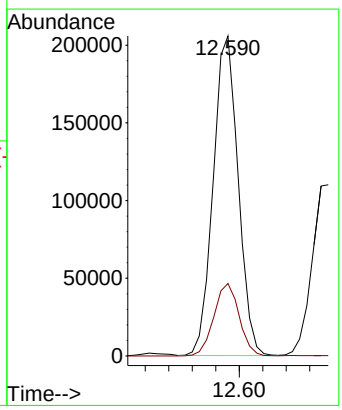


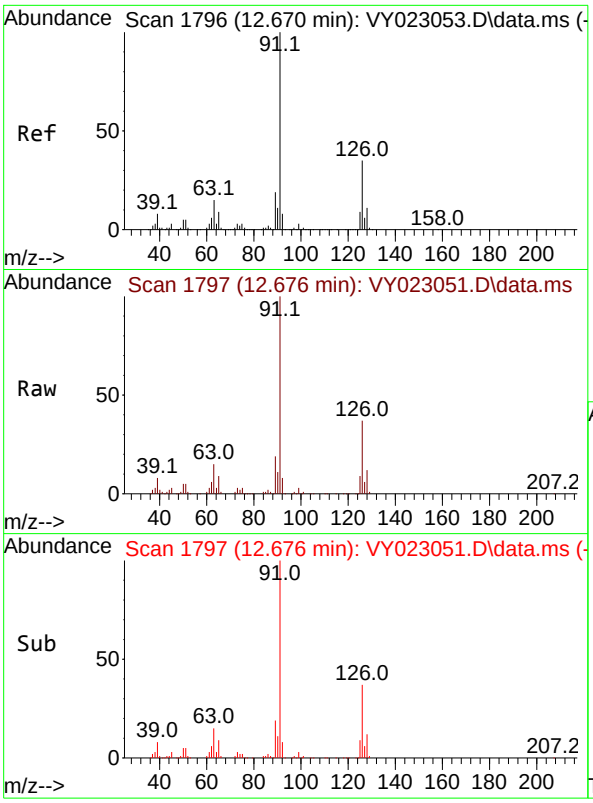




#78
n-propylbenzene
Concen: 9.876 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 91 Resp: 303440

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.9 | 11.5 | 34.5 |



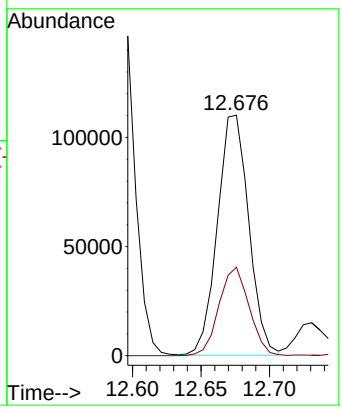


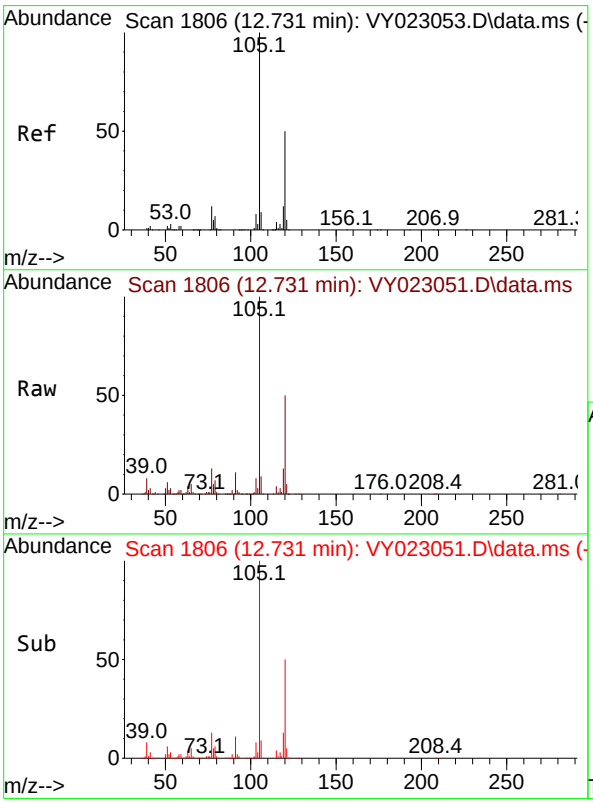

#79
2-Chlorotoluene
Concen: 9.962 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 91 Resp: 175364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.6 | 17.4 | 52.3 |

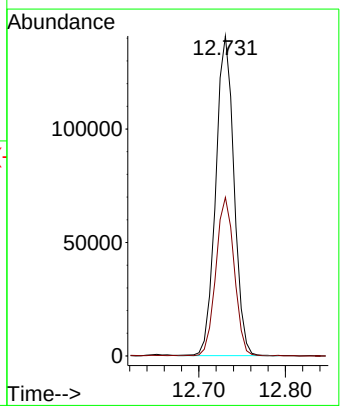


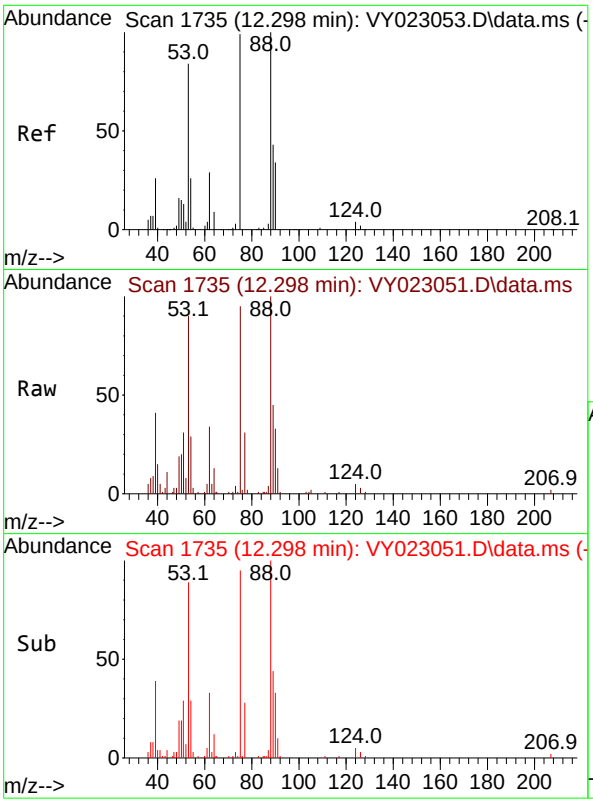




#80
1,3,5-Trimethylbenzene
Concen: 9.855 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:105 Resp: 205544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.8 | 24.8 | 74.4 |



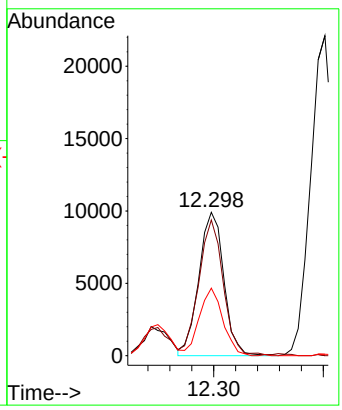


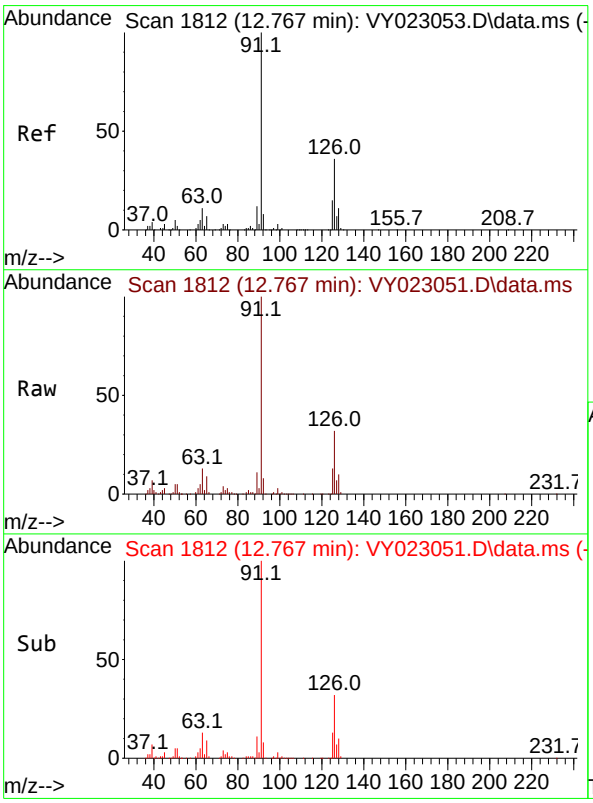

#81
trans-1,4-Dichloro-2-butene
Concen: 10.780 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 75 Resp: 15715

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 91.4 | 70.8 | 106.2 |
| 89 | 44.0 | 38.1 | 57.1 |

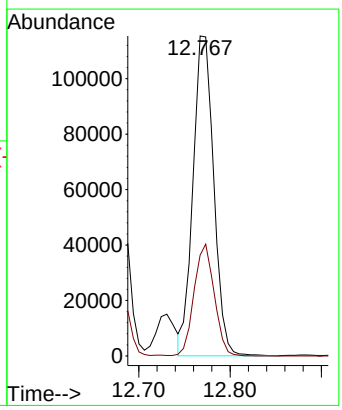


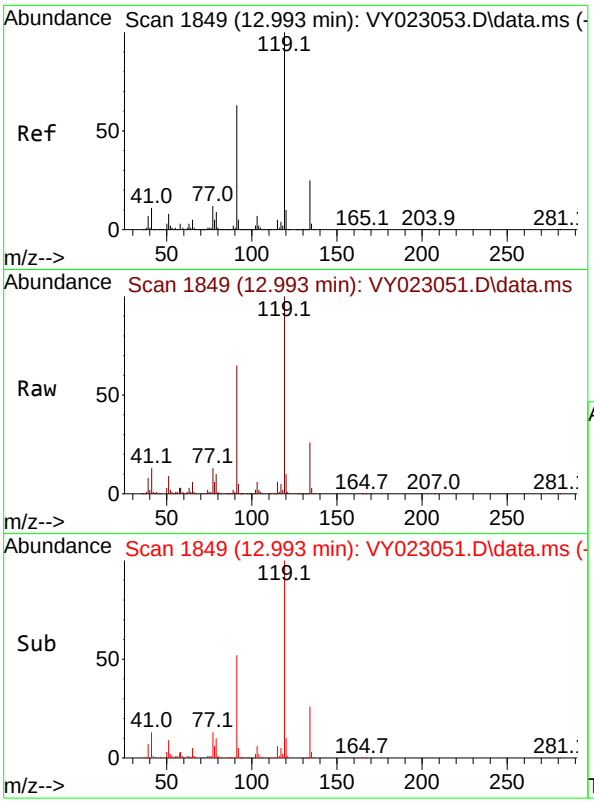




#82
4-Chlorotoluene
Concen: 9.956 ug/l
RT: 12.767 min Scan# 1812
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 91 Resp: 181812

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.1 | 17.3 | 52.0 |



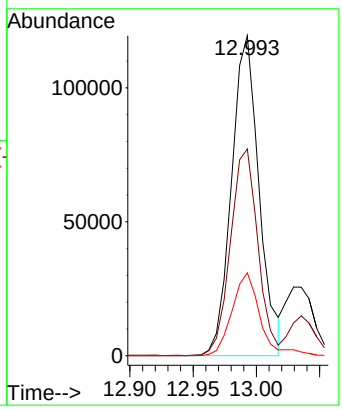


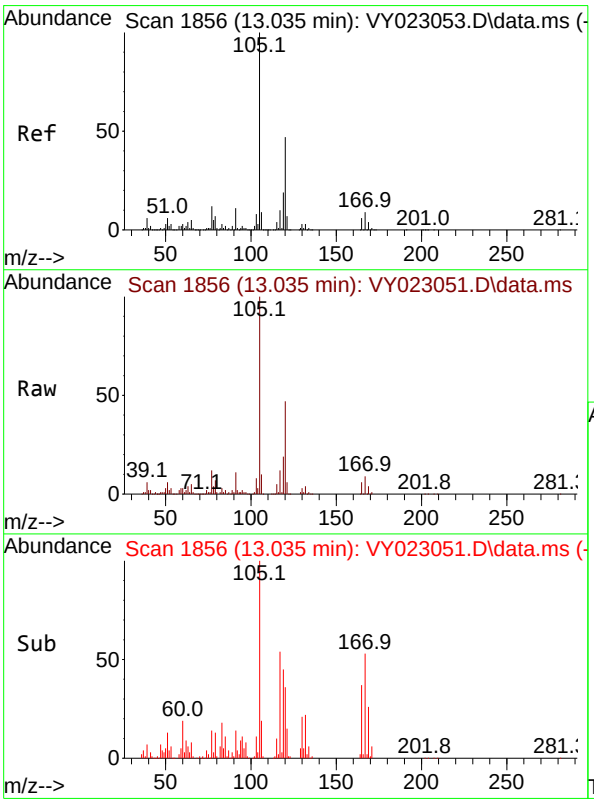

#83
tert-Butylbenzene
Concen: 9.630 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:119 Resp: 181408

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 63.9 | 31.6 | 94.8 |
| 134 | 26.4 | 12.9 | 38.7 |

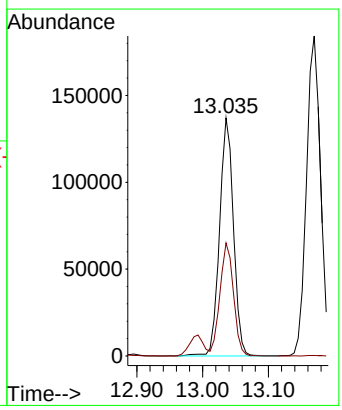


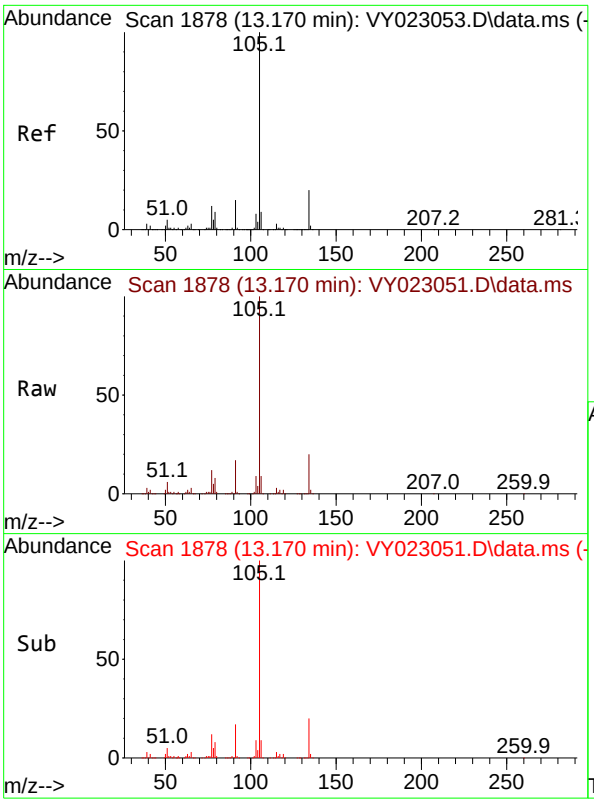




#84
1,2,4-Trimethylbenzene
Concen: 9.720 ug/l
RT: 13.035 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:105 Resp: 201812

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.1 | 23.0 | 69.0 |



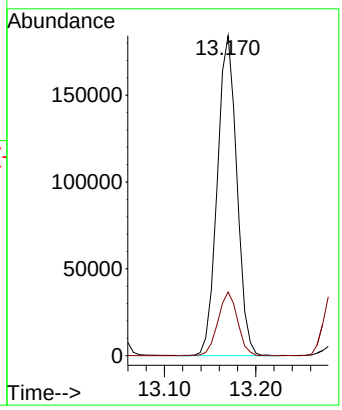


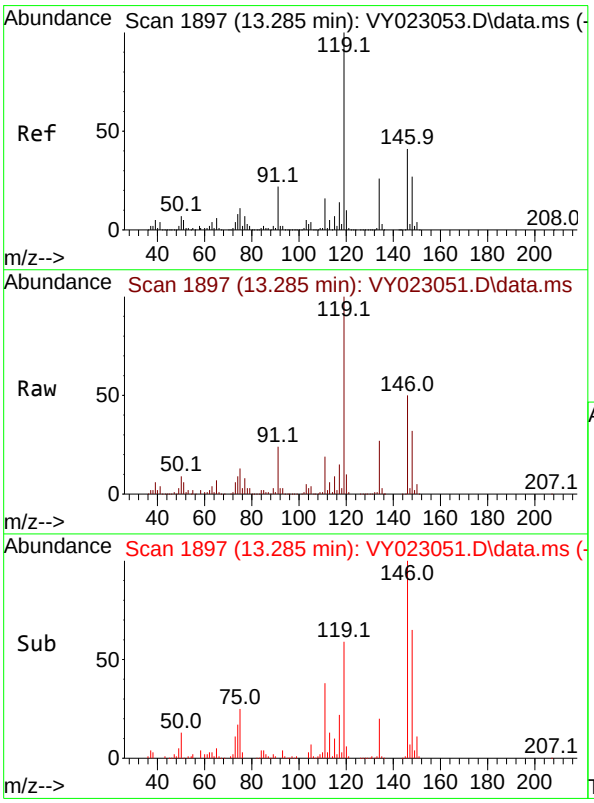

#85
sec-Butylbenzene
Concen: 9.908 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:105 Resp: 274178

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.9 | 10.2 | 30.4 |

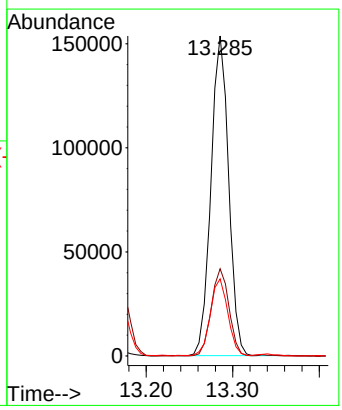


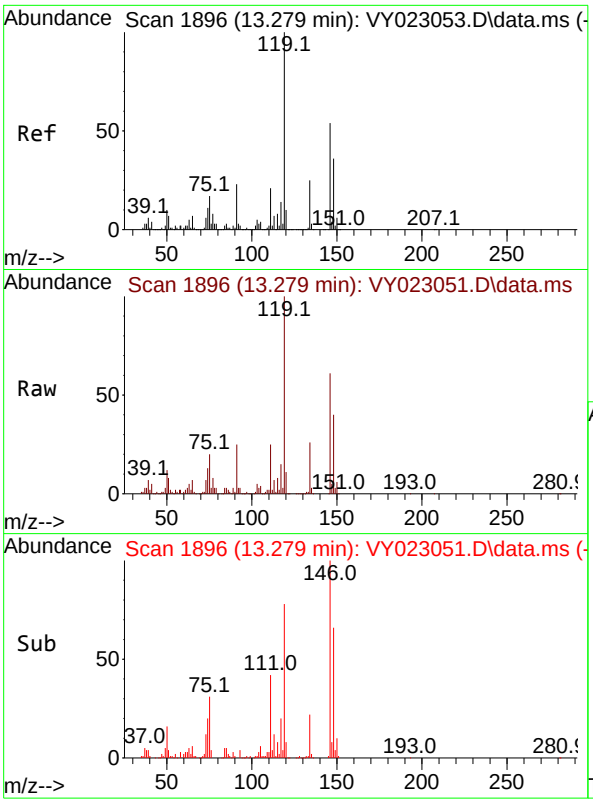




#86
p-Isopropyltoluene
Concen: 9.482 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:119 Resp: 217799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 27.3 | 13.2 | 39.6 |
| 91 | 23.9 | 11.3 | 33.8 |



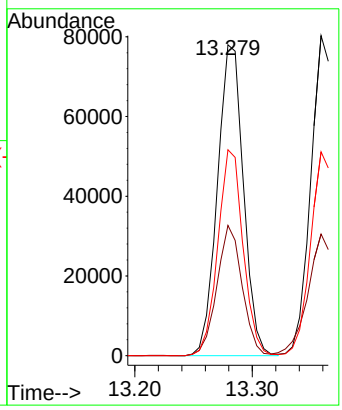


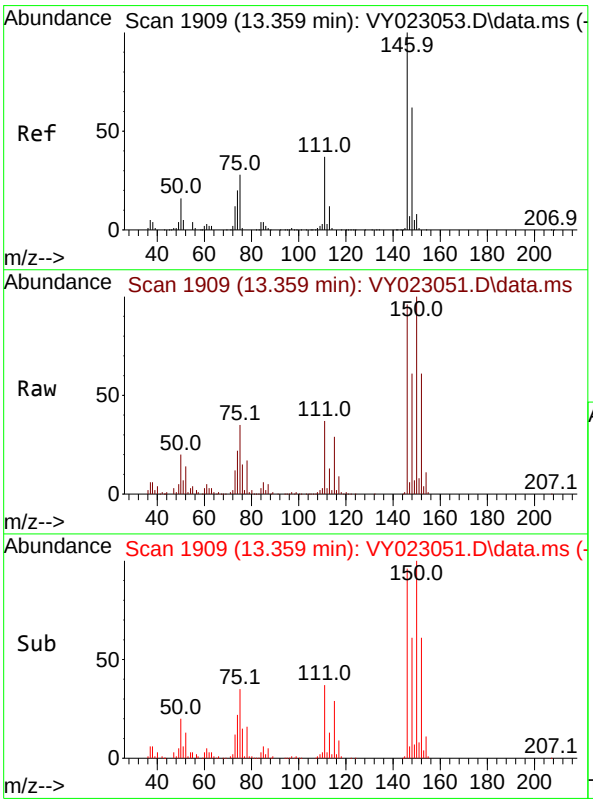

#87
1,3-Dichlorobenzene
Concen: 9.893 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:146 Resp: 120109

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.6 | 19.6 | 58.7 |
| 148 | 64.3 | 32.5 | 97.5 |

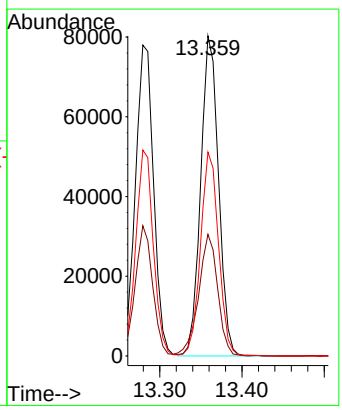


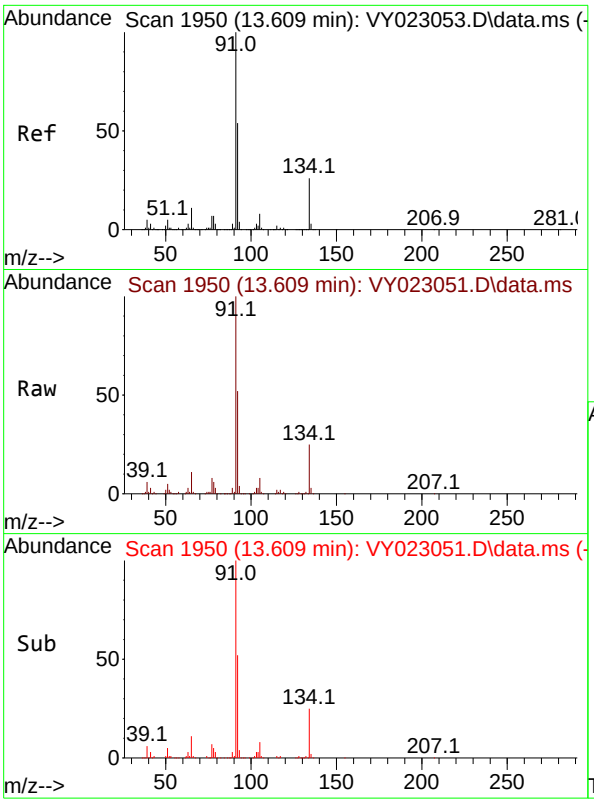




#88
1,4-Dichlorobenzene
Concen: 10.060 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:146 Resp: 121160

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.7 | 19.1 | 57.1 |
| 148 | 64.3 | 31.6 | 94.7 |



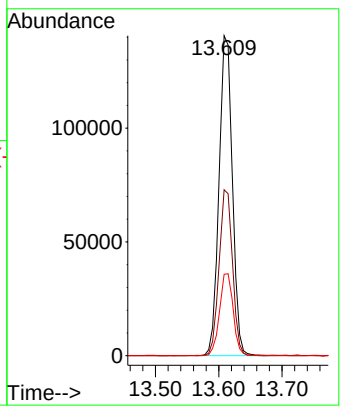


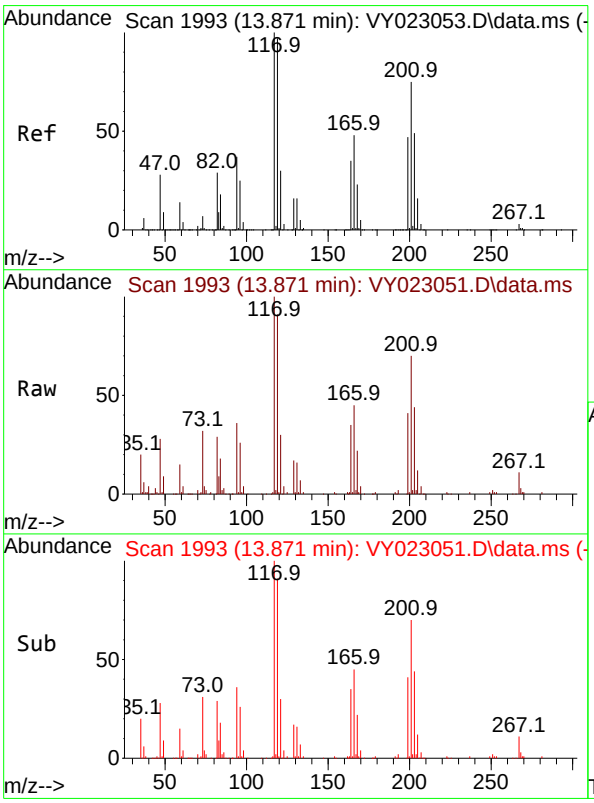

#89
n-Butylbenzene
Concen: 9.737 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 91 Resp: 205420

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.1 | 26.9 | 80.7 |
| 134 | 26.1 | 13.2 | 39.5 |

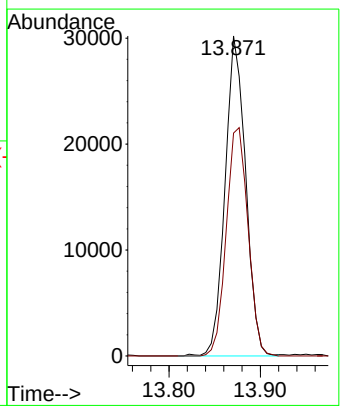


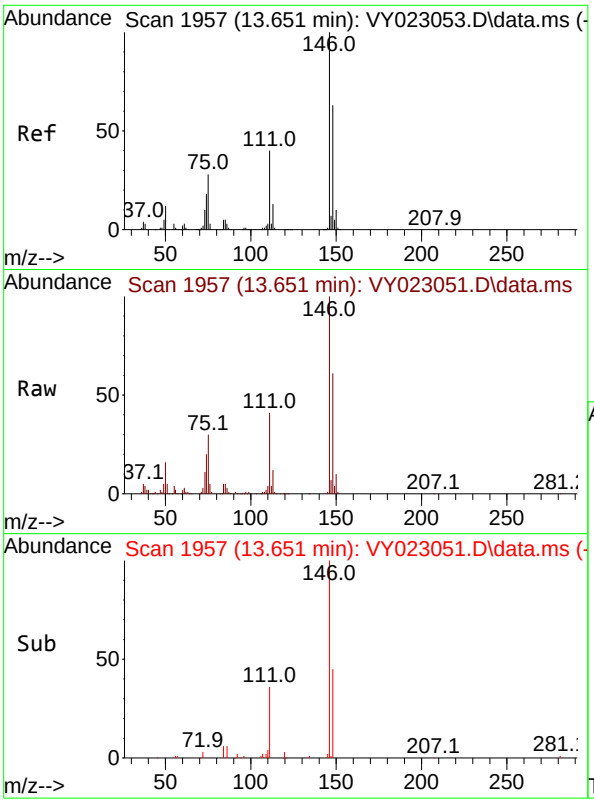




#90
Hexachloroethane
Concen: 10.071 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:117 Resp: 47353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 75.3 | 38.4 | 115.1 |



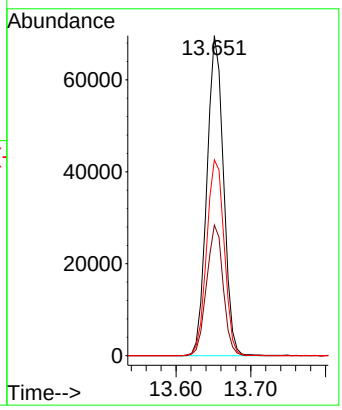


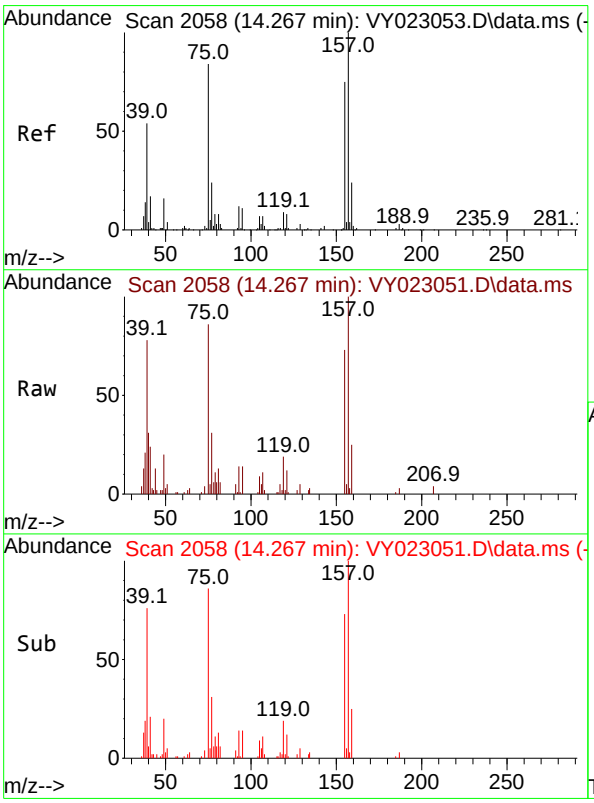

#91
1,2-Dichlorobenzene
Concen: 10.110 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:146 Resp: 107656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.5 | 20.3 | 60.8 |
| 148 | 64.5 | 32.2 | 96.6 |

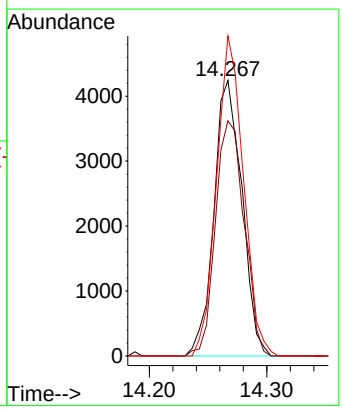


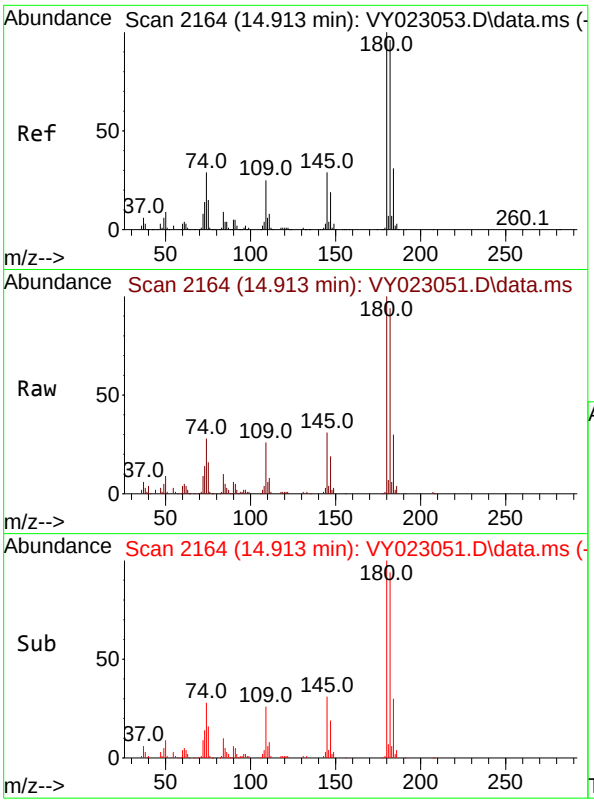




#92
1,2-Dibromo-3-Chloropropane
Concen: 10.250 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion: 75 Resp: 7032

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 87.6 | 43.9 | 131.6 |
| 157 | 111.5 | 57.2 | 171.6 |



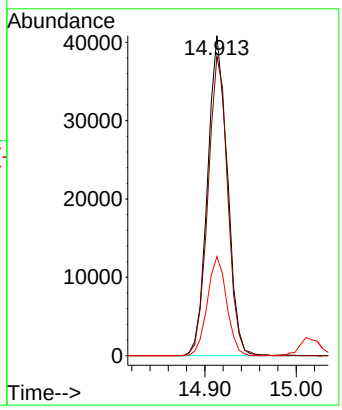


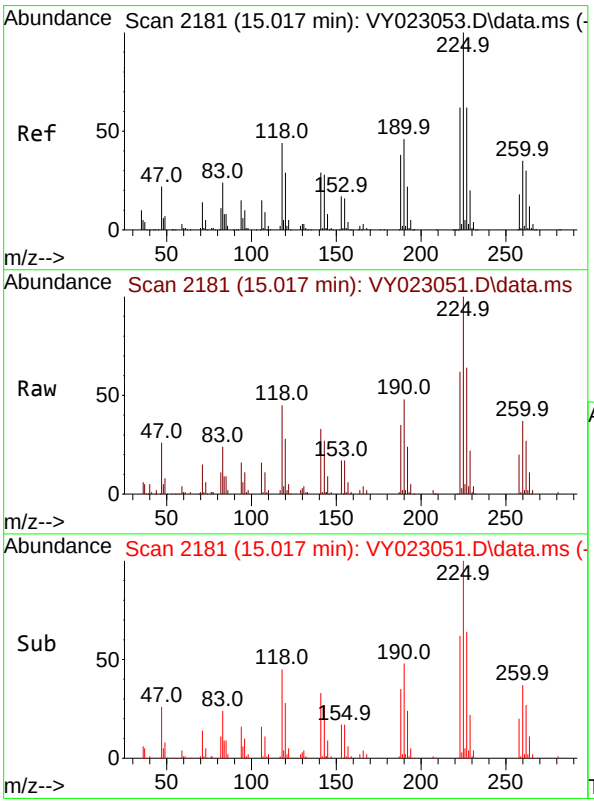

#93
1,2,4-Trichlorobenzene
Concen: 9.739 ug/l
RT: 14.913 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:180 Resp: 61323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.2 | 46.8 | 140.4 |
| 145 | 30.2 | 14.4 | 43.4 |

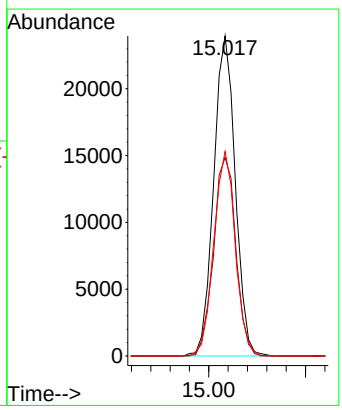


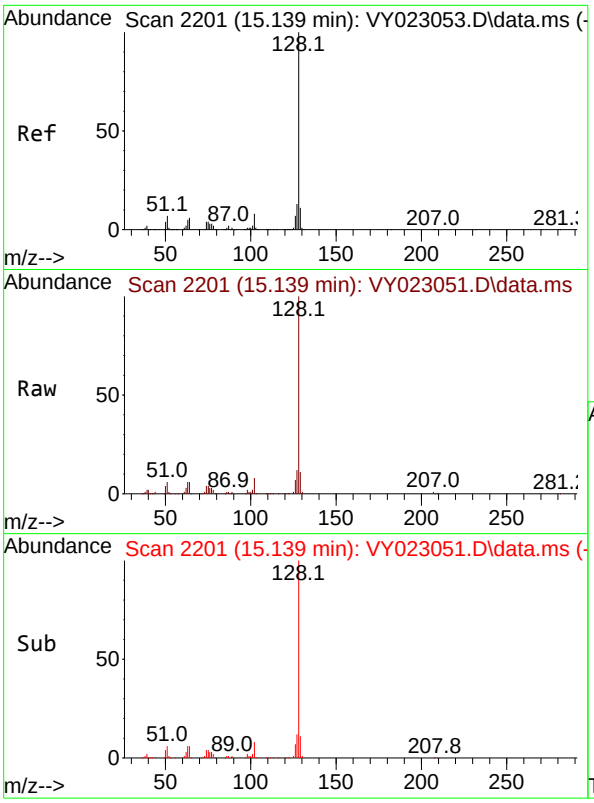




#94
Hexachlorobutadiene
Concen: 10.003 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:225 Resp: 37011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 64.1 | 31.3 | 93.8 |
| 227 | 63.5 | 31.5 | 94.5 |



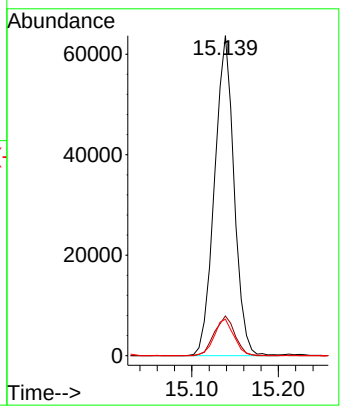


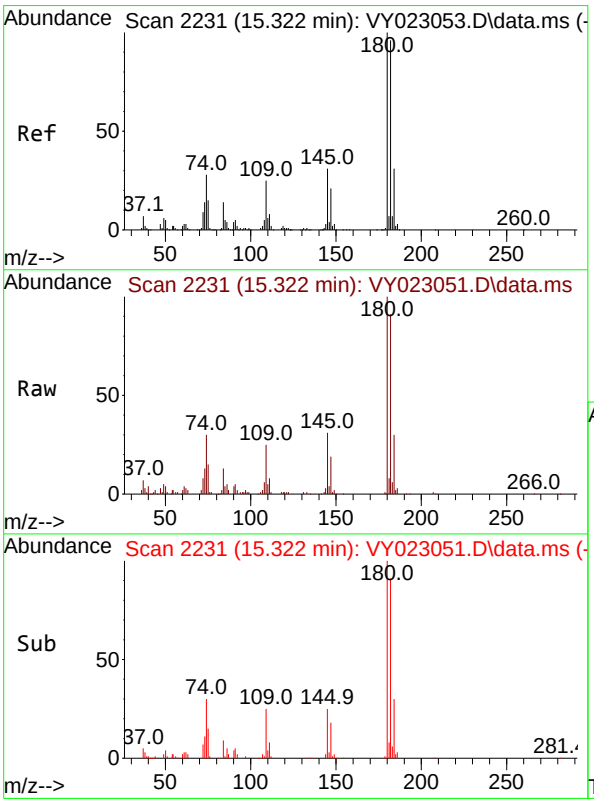

#95
Naphthalene
Concen: 9.293 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:128 Resp: 99780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.9 | 10.4 | 15.6 |
| 129 | 11.6 | 9.0 | 13.4 |

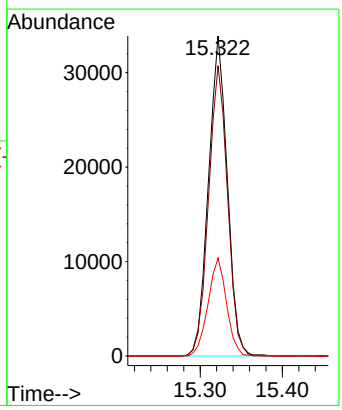



#96
1,2,3-Trichlorobenzene
Concen: 9.883 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023051.D
Acq: 12 Aug 2025 15:17

Tgt Ion:180 Resp: 53626

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 91.9 | 47.9 | 143.7 |
| 145 | 30.2 | 15.9 | 47.7 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023052.D
Acq On : 12 Aug 2025 15:40
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Quant Time: Aug 13 01:52:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 537748 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.610 | 114 | 848953 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 745484 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 370932 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.055 | 65 | 103755 | 20.244 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 40.480%# | | |
| 35) Dibromofluoromethane | 7.628 | 113 | 102068 | 20.093 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 40.180%# | | |
| 50) Toluene-d8 | 10.103 | 98 | 398394 | 20.075 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 40.160%# | | |
| 62) 4-Bromofluorobenzene | 12.402 | 95 | 124467 | 19.503 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = | 39.000% | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.861 | 85 | 98926 | 22.537 | ug/l | 98 |
| 3) Chloromethane | 2.068 | 50 | 158310 | 22.268 | ug/l | 99 |
| 4) Vinyl Chloride | 2.202 | 62 | 188307 | 21.427 | ug/l | 99 |
| 5) Bromomethane | 2.586 | 94 | 140517 | 21.410 | ug/l | 99 |
| 6) Chloroethane | 2.726 | 64 | 122310 | 20.934 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.050 | 101 | 225373 | 21.090 | ug/l | 99 |
| 8) Diethyl Ether | 3.452 | 74 | 58245 | 20.602 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 3.805 | 101 | 112116 | 21.267 | ug/l | 99 |
| 10) Methyl Iodide | 3.994 | 142 | 115879 | 20.370 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.860 | 59 | 35192 | 100.214 | ug/l | 98 |
| 12) 1,1-Dichloroethene | 3.781 | 96 | 107992 | 20.840 | ug/l | 99 |
| 13) Acrolein | 3.653 | 56 | 54065 | 105.126 | ug/l | 100 |
| 14) Allyl chloride | 4.379 | 41 | 155709 | 20.421 | ug/l | 97 |
| 15) Acrylonitrile | 5.055 | 53 | 120151 | 104.535 | ug/l | 97 |
| 16) Acetone | 3.866 | 43 | 113468 | 102.193 | ug/l | 96 |
| 17) Carbon Disulfide | 4.098 | 76 | 357484 | 21.157 | ug/l | 98 |
| 18) Methyl Acetate | 4.379 | 43 | 69853 | 21.141 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.110 | 73 | 278863 | 20.767 | ug/l | 99 |
| 20) Methylene Chloride | 4.610 | 84 | 130416 | 21.069 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 5.104 | 96 | 120321 | 20.661 | ug/l | 96 |
| 22) Diisopropyl ether | 6.012 | 45 | 346195 | 20.894 | ug/l | 95 |
| 23) Vinyl Acetate | 5.951 | 43 | 941364 | 102.748 | ug/l | 97 |
| 24) 1,1-Dichloroethane | 5.909 | 63 | 211558 | 20.884 | ug/l | 98 |
| 25) 2-Butanone | 6.890 | 43 | 153363 | 101.559 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 6.878 | 77 | 181528 | 20.767 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 6.884 | 96 | 138775 | 20.613 | ug/l | 99 |
| 28) Bromochloromethane | 7.244 | 49 | 84540 | 21.035 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.262 | 42 | 95795 | 102.341 | ug/l | 99 |
| 30) Chloroform | 7.415 | 83 | 215585 | 20.635 | ug/l | 98 |
| 31) Cyclohexane | 7.701 | 56 | 194671 | 20.393 | ug/l | 96 |
| 32) 1,1,1-Trichloroethane | 7.610 | 97 | 193268 | 20.848 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 156617 | 20.746 | ug/l | 98 |
| 37) Ethyl Acetate | 6.982 | 43 | 66420 | 20.944 | ug/l | 100 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 171344 | 20.897 | ug/l | 98 |
| 39) Methylcyclohexane | 9.103 | 83 | 205594 | 20.680 | ug/l | 98 |
| 40) Benzene | 8.079 | 78 | 485631 | 20.871 | ug/l | 100 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023052.D
Acq On : 12 Aug 2025 15:40
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Quant Time: Aug 13 01:52:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.256 | 41 | 93052 | 50.787 | ug/l | # | 32 |
| 42) 1,2-Dichloroethane | 8.152 | 62 | 126111 | 20.839 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.195 | 43 | 131854 | 20.571 | ug/l | | 98 |
| 44) Trichloroethene | 8.859 | 130 | 126772 | 21.083 | ug/l | | 98 |
| 45) 1,2-Dichloropropane | 9.134 | 63 | 110699 | 20.677 | ug/l | | 99 |
| 46) Dibromomethane | 9.225 | 93 | 63410 | 20.635 | ug/l | | 98 |
| 47) Bromodichloromethane | 9.420 | 83 | 165954 | 20.988 | ug/l | | 96 |
| 48) Methyl methacrylate | 9.219 | 41 | 64120 | 20.905 | ug/l | | 98 |
| 49) 1,4-Dioxane | 9.225 | 88 | 14826 | 411.480 | ug/l | | 98 |
| 51) 4-Methyl-2-Pentanone | 9.993 | 43 | 339298 | 102.622 | ug/l | | 100 |
| 52) Toluene | 10.164 | 92 | 306193 | 20.719 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 147696 | 20.627 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 174243 | 20.580 | ug/l | | 96 |
| 55) 1,1,2-Trichloroethane | 10.566 | 97 | 86022 | 20.920 | ug/l | | 99 |
| 56) Ethyl methacrylate | 10.432 | 69 | 105816 | 20.111 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 145621 | 20.882 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 244340 | 98.450 | ug/l | | 99 |
| 59) 2-Hexanone | 10.755 | 43 | 231872 | 102.992 | ug/l | | 99 |
| 60) Dibromochloromethane | 10.908 | 129 | 110810 | 20.424 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.012 | 107 | 80549 | 20.842 | ug/l | | 97 |
| 64) Tetrachloroethene | 10.640 | 164 | 141609 | 21.273 | ug/l | | 99 |
| 65) Chlorobenzene | 11.438 | 112 | 332700 | 20.690 | ug/l | | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 11.511 | 131 | 112677 | 20.647 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.511 | 91 | 564855 | 20.412 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.621 | 106 | 444361 | 41.115 | ug/l | | 98 |
| 69) o-Xylene | 11.950 | 106 | 207639 | 20.513 | ug/l | | 99 |
| 70) Styrene | 11.963 | 104 | 339891 | 20.532 | ug/l | | 99 |
| 71) Bromoform | 12.127 | 173 | 64275 | 20.151 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.249 | 105 | 534421 | 20.413 | ug/l | | 100 |
| 74) N-amyl acetate | 12.066 | 43 | 112297 | 20.227 | ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.499 | 83 | 89782 | 20.085 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.548 | 75 | 122494 | 34.195 | ug/l | # | 100 |
| 77) Bromobenzene | 12.523 | 156 | 128501 | 20.574 | ug/l | | 99 |
| 78) n-propylbenzene | 12.590 | 91 | 640528 | 20.550 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.670 | 91 | 365577 | 20.471 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.731 | 105 | 435074 | 20.563 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.298 | 75 | 30153 | 20.389 | ug/l | | 97 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 385755 | 20.822 | ug/l | | 99 |
| 83) tert-Butylbenzene | 12.993 | 119 | 389621 | 20.389 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.036 | 105 | 438392 | 20.814 | ug/l | | 98 |
| 85) sec-Butylbenzene | 13.170 | 105 | 575804 | 20.512 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.285 | 119 | 480937 | 20.640 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.279 | 146 | 252452 | 20.497 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.359 | 146 | 249280 | 20.403 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.609 | 91 | 440963 | 20.605 | ug/l | | 99 |
| 90) Hexachloroethane | 13.871 | 117 | 96478 | 20.226 | ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 13.651 | 146 | 222000 | 20.552 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.267 | 75 | 13973 | 20.076 | ug/l | | 98 |
| 93) 1,2,4-Trichlorobenzene | 14.913 | 180 | 130718 | 20.464 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 15.017 | 225 | 77511 | 20.650 | ug/l | | 99 |
| 95) Naphthalene | 15.139 | 128 | 216923 | 19.915 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.322 | 180 | 111506 | 20.258 | ug/l | | 99 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023052.D
Acq On : 12 Aug 2025 15:40
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Quant Time: Aug 13 01:52:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

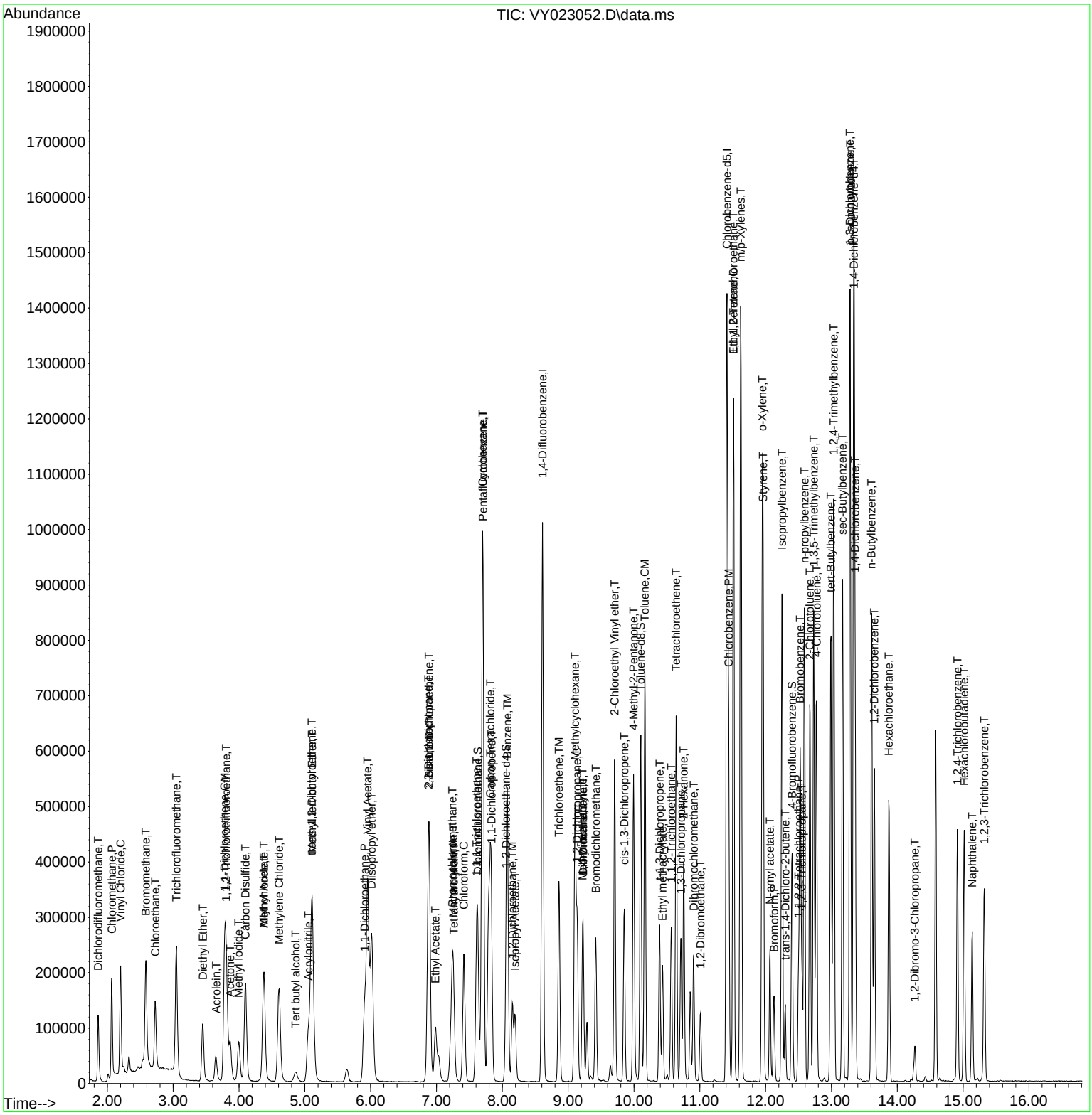
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

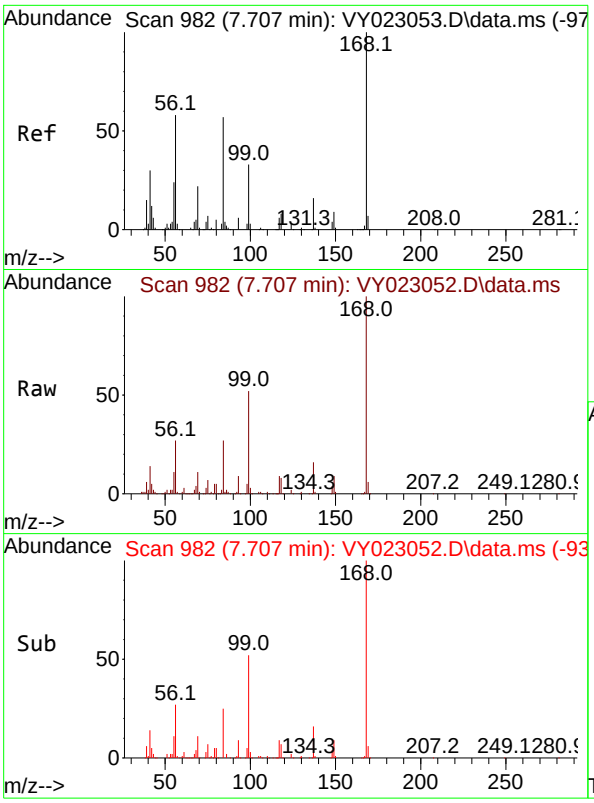
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023052.D
Acq On : 12 Aug 2025 15:40
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Quant Time: Aug 13 01:52:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration



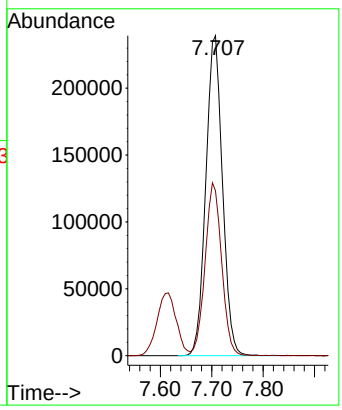


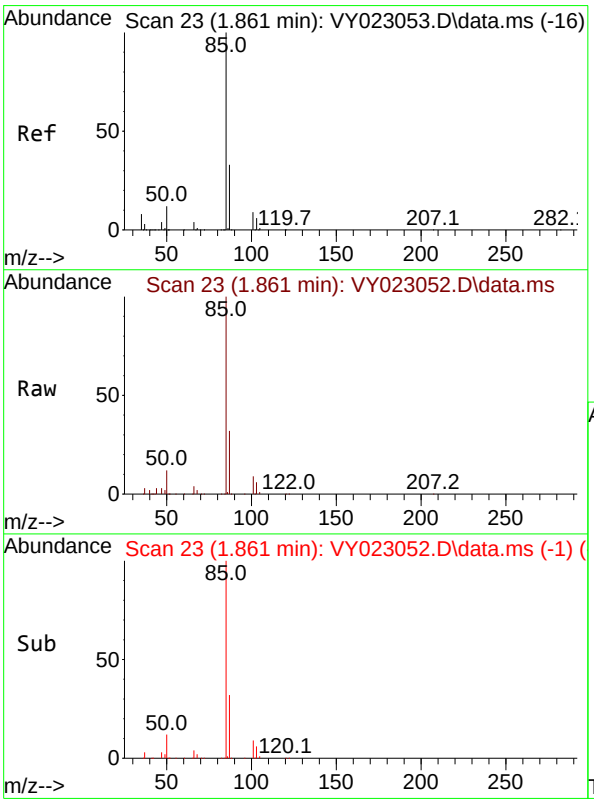

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:168 Resp: 537748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 51.5 | 42.8 | 64.2 |

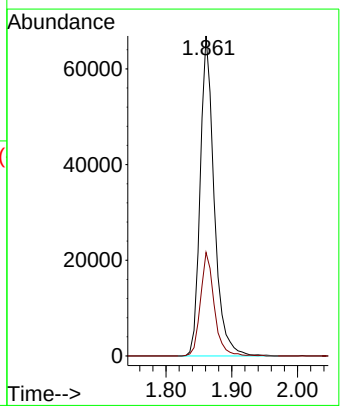


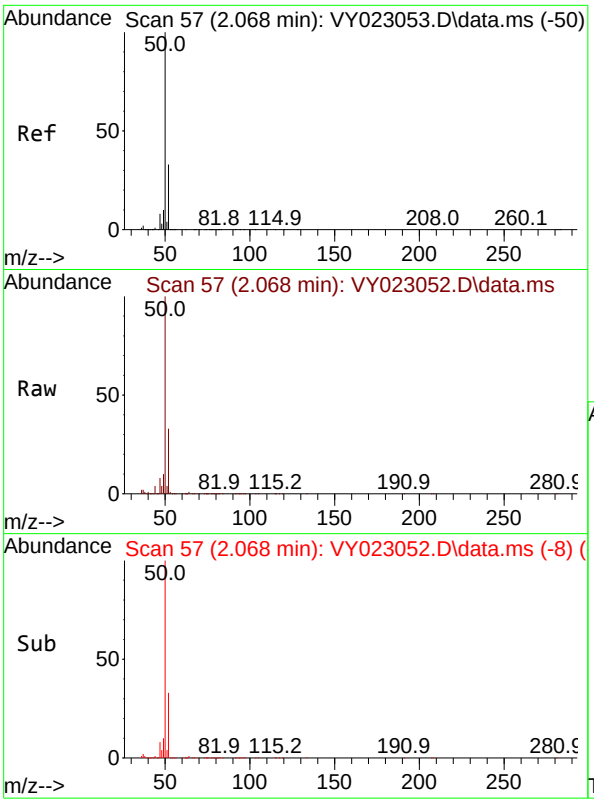




#2
Dichlorodifluoromethane
Concen: 22.537 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 85 Resp: 98926

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.3 | 16.6 | 49.8 |



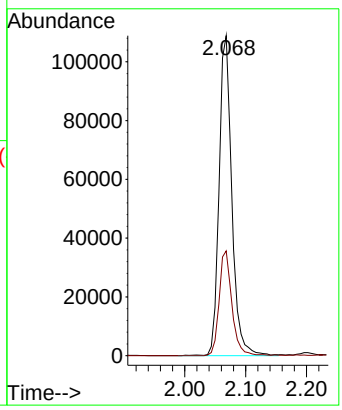


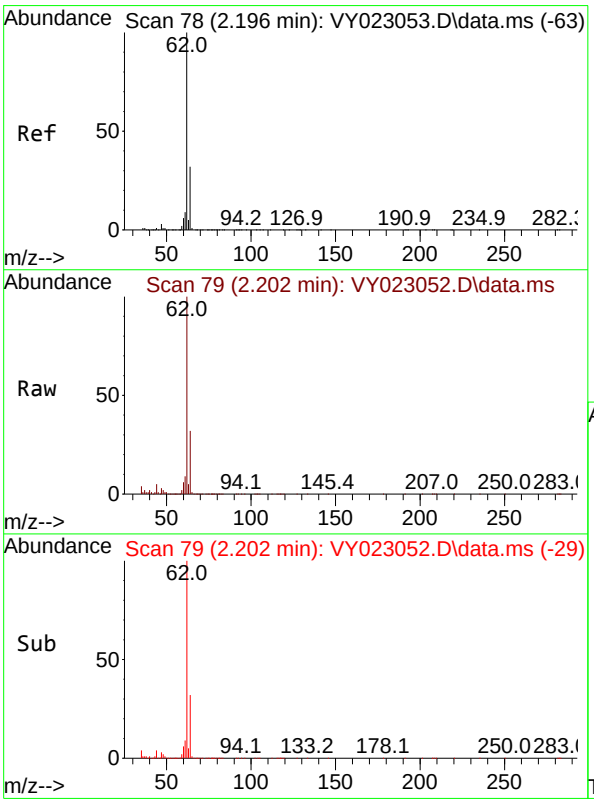

#3
Chloromethane
Concen: 22.268 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 50 Resp: 158310

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.8 | 26.7 | 40.1 |

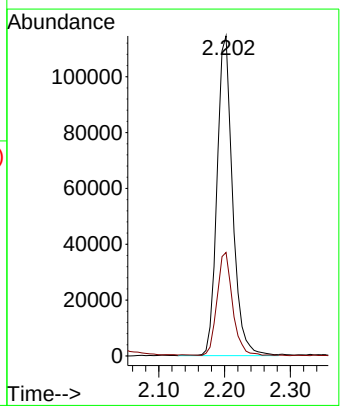


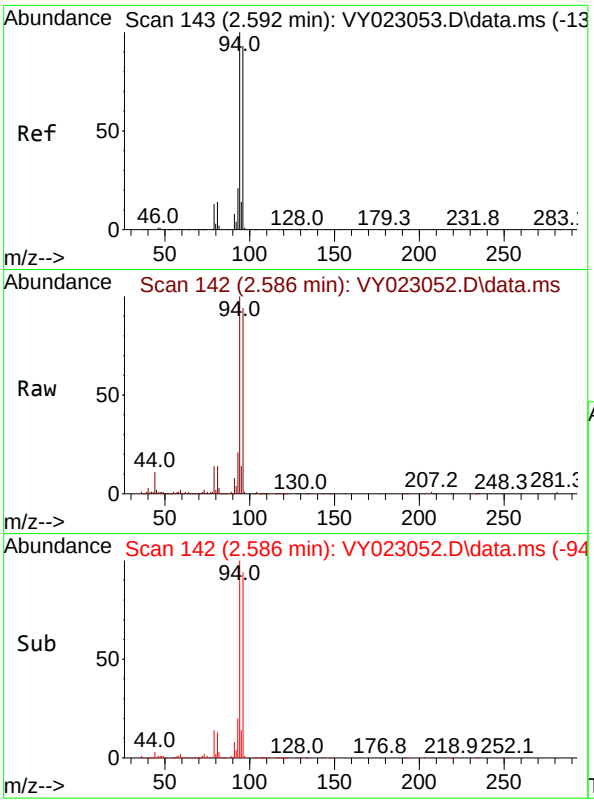




#4
Vinyl Chloride
Concen: 21.427 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 62 Resp: 188307

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.2 | 25.4 | 38.0 |



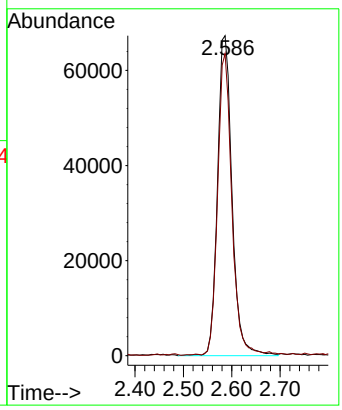


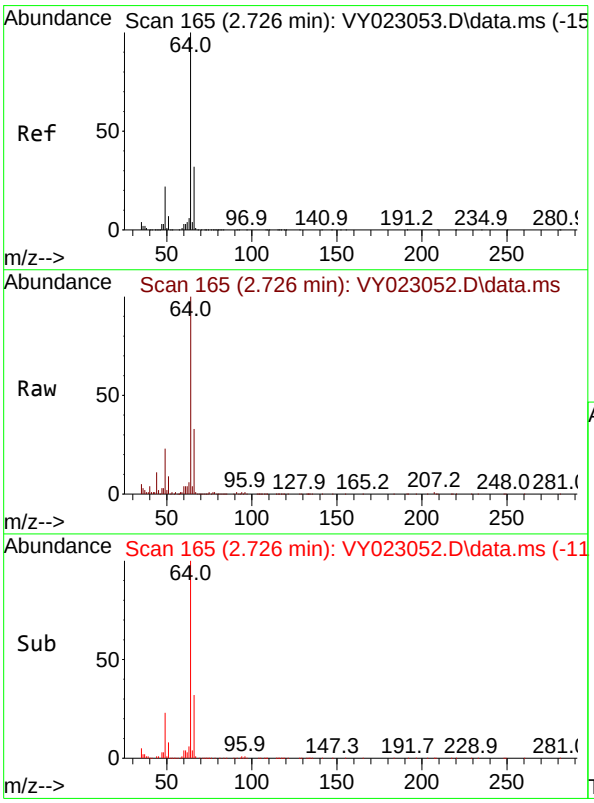

#5
Bromomethane
Concen: 21.410 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 94 Resp: 140517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 94.1 | 74.6 | 112.0 |

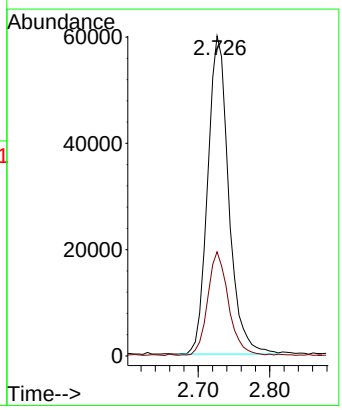


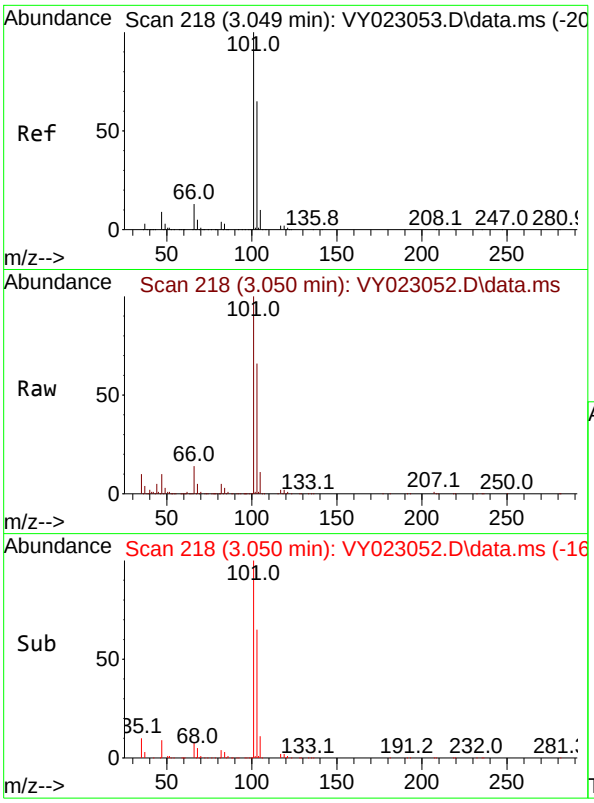




#6
Chloroethane
Concen: 20.934 ug/l
RT: 2.726 min Scan# 165
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 64 Resp: 122310

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.5 | 25.8 | 38.6 |



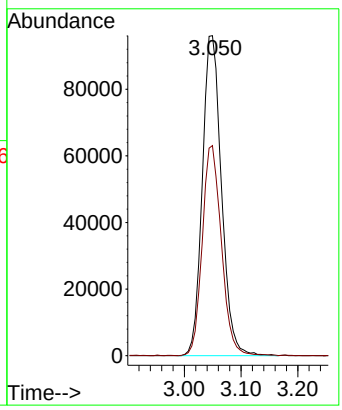


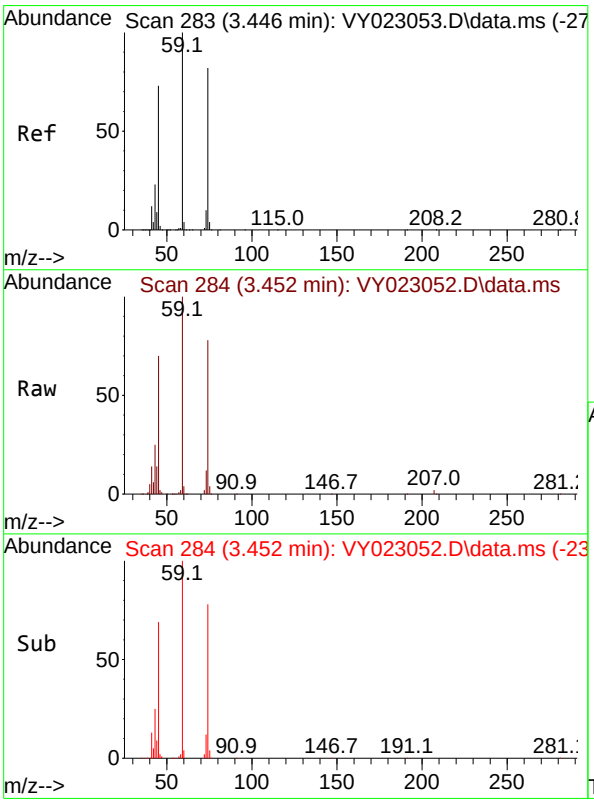

#7
Trichlorofluoromethane
Concen: 21.090 ug/l
RT: 3.050 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:101 Resp: 225373

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.7 | 51.9 | 77.9 |

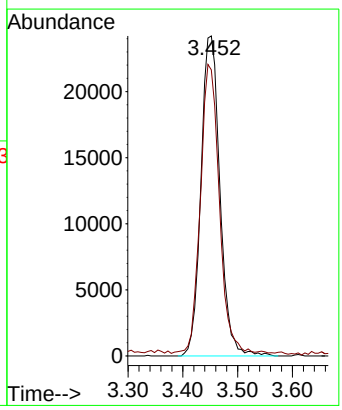


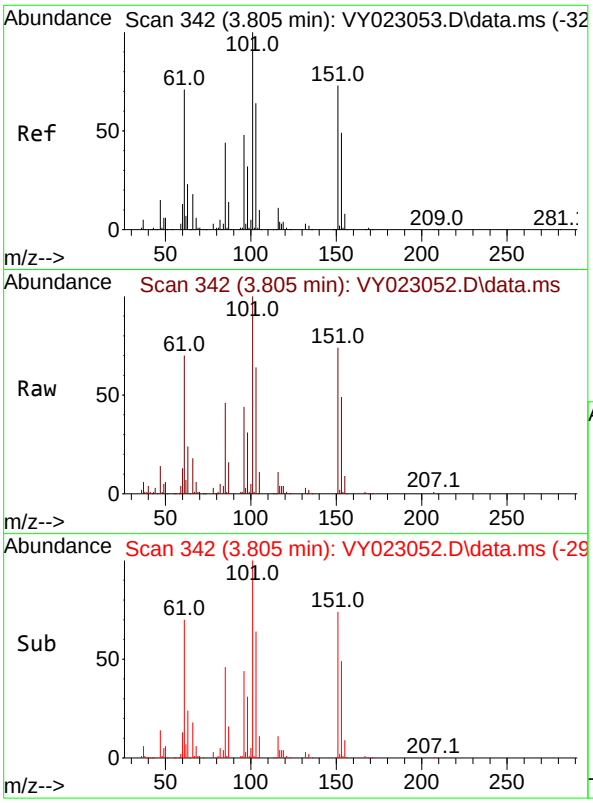




#8
Diethyl Ether
Concen: 20.602 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 74 Resp: 58245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 89.8 | 44.4 | 133.2 |



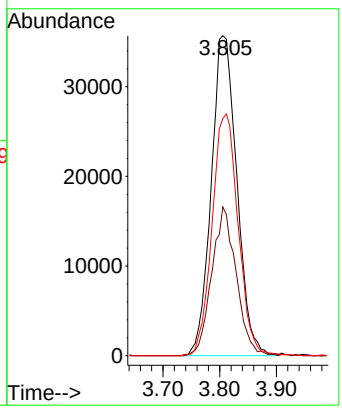


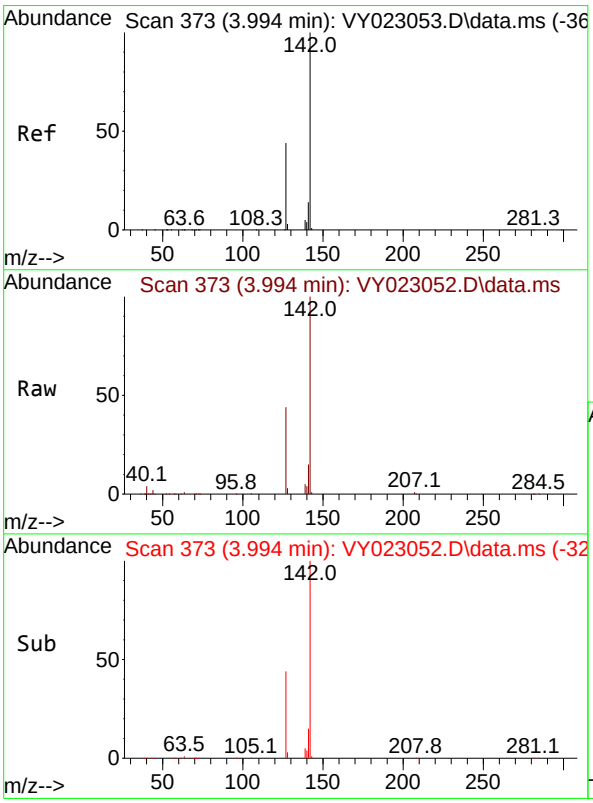

#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.267 ug/l
RT: 3.805 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:101 Resp: 112116

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 44.2 | 36.3 | 54.5 |
| 151 | 76.8 | 61.5 | 92.3 |

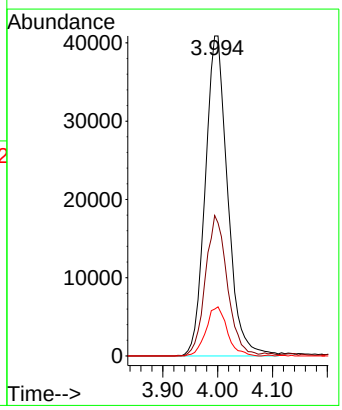


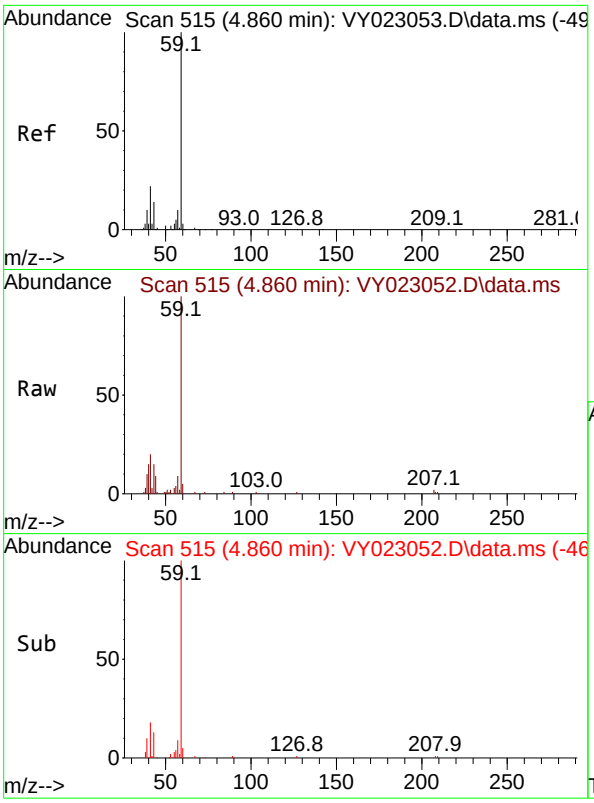




#10
Methyl Iodide
Concen: 20.370 ug/l
RT: 3.994 min Scan# 373
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:142 Resp: 115879

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 43.0 | 34.9 | 52.3 |
| 141 | 14.6 | 11.3 | 16.9 |



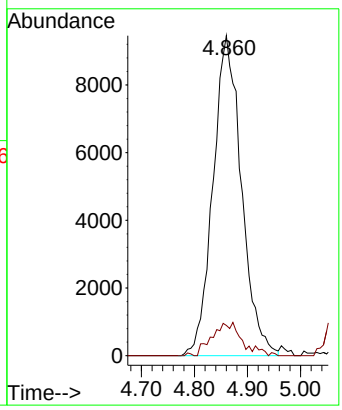


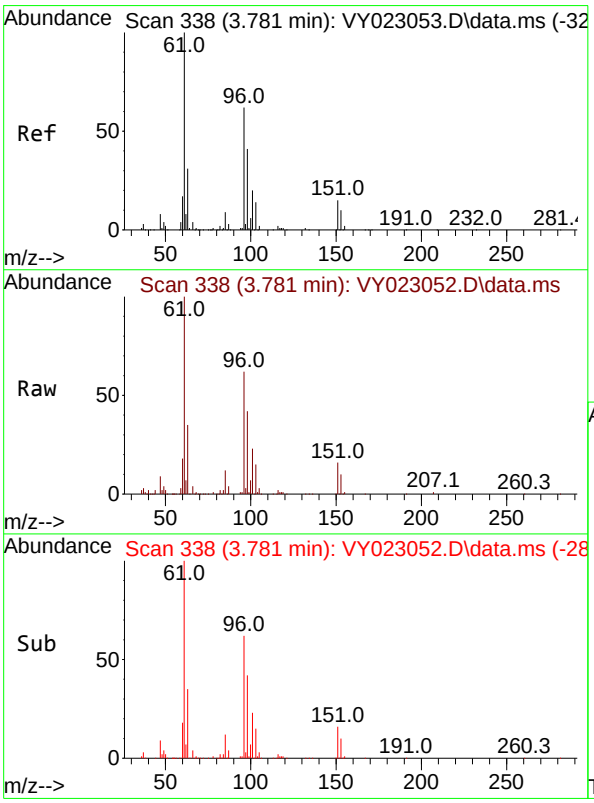

#11
Tert butyl alcohol
Concen: 100.214 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 59 Resp: 35192

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.0 | 8.6 | 13.0 |

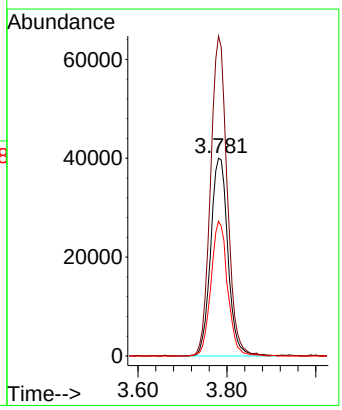


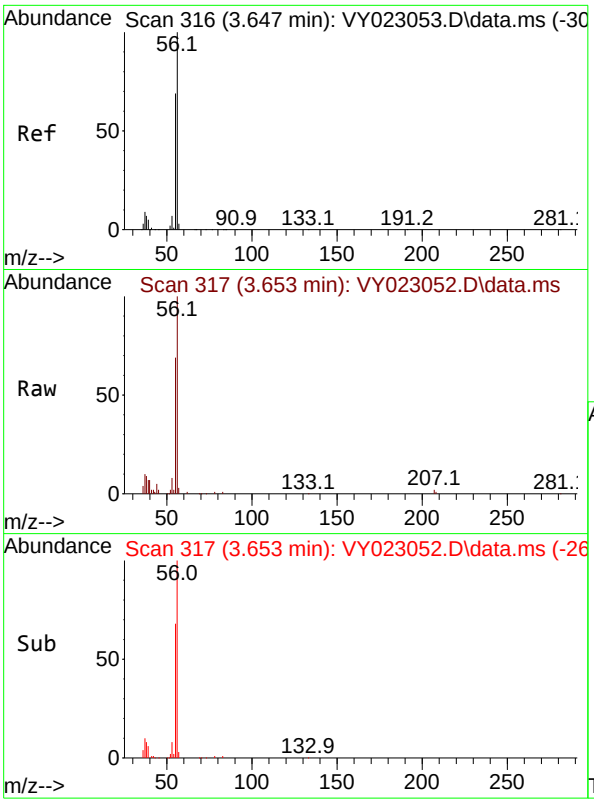




#12
1,1-Dichloroethene
Concen: 20.840 ug/l
RT: 3.781 min Scan# 338
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 96 Resp: 107992

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 161.8 | 129.4 | 194.2 |
| 98 | 68.1 | 52.8 | 79.2 |



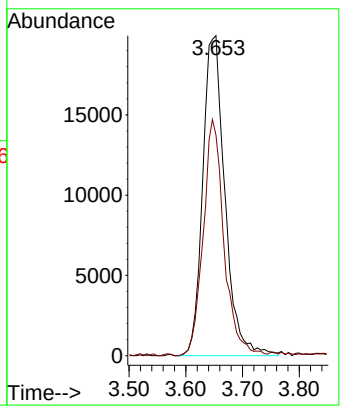


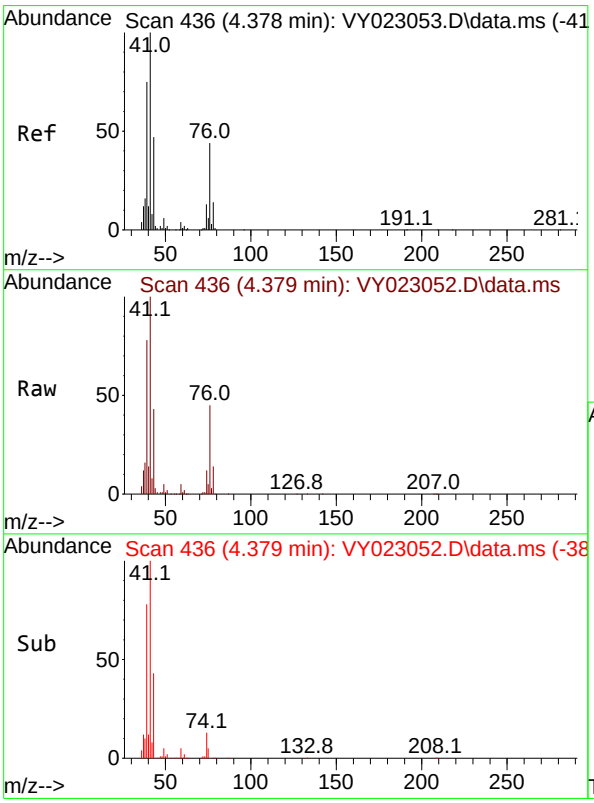

#13
Acrolein
Concen: 105.126 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 56 Resp: 54065

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 69.1 | 55.2 | 82.8 |

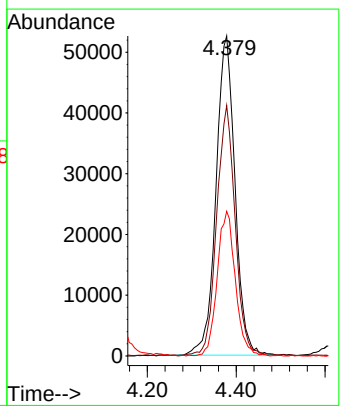


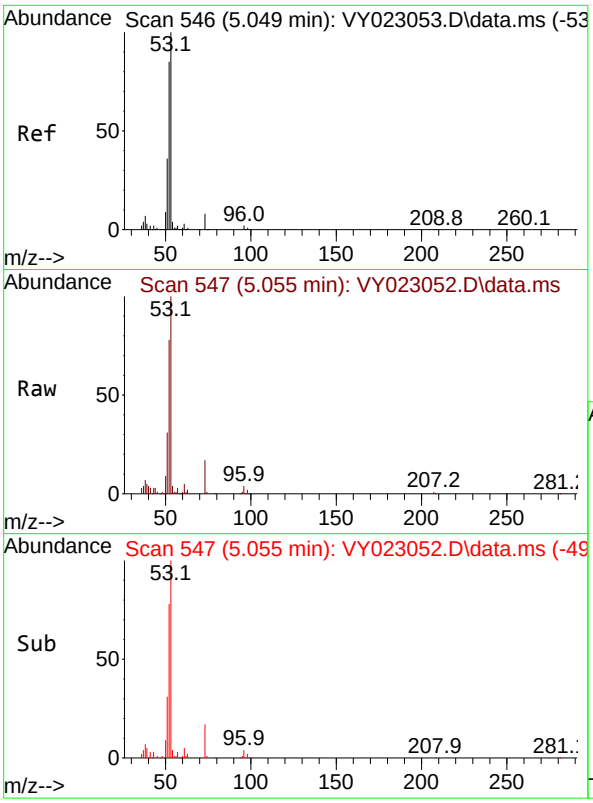




#14
Allyl chloride
Concen: 20.421 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 41 Resp: 155709

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 77.1 | 59.8 | 89.6 |
| 76 | 43.3 | 33.7 | 50.5 |



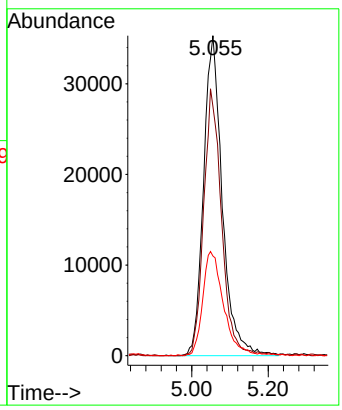


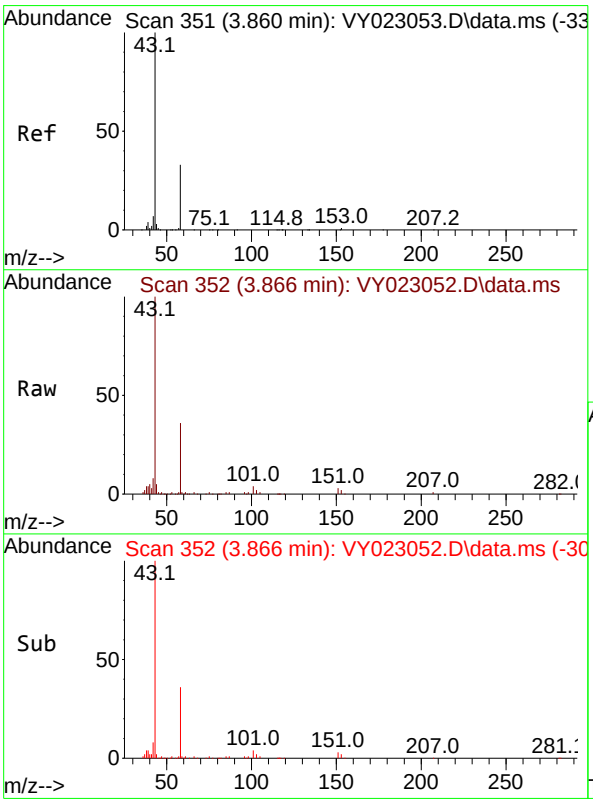

#15
Acrylonitrile
Concen: 104.535 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 53 Resp: 120151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 78.7 | 65.3 | 97.9 |
| 51 | 35.9 | 29.5 | 44.3 |

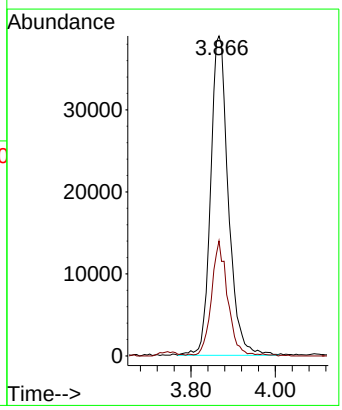


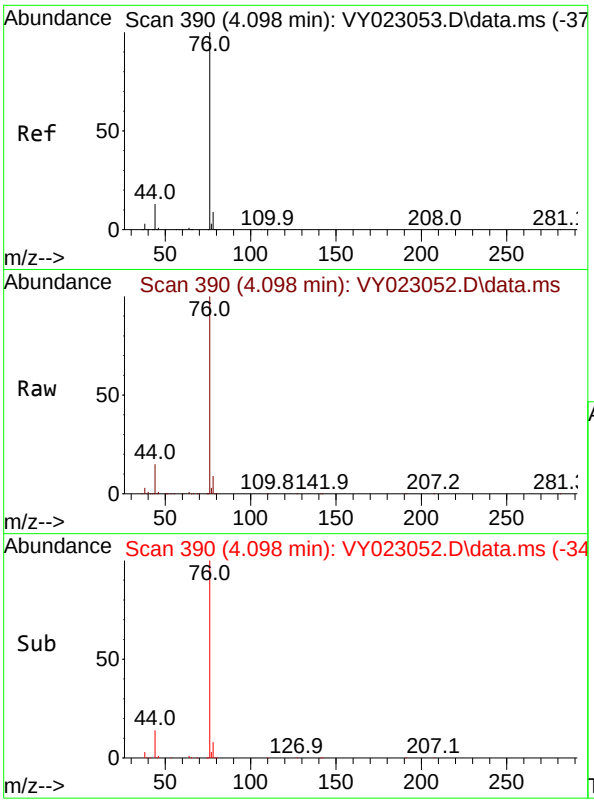




#16
Acetone
Concen: 102.193 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 43 Resp: 113468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 36.0 | 27.1 | 40.7 |



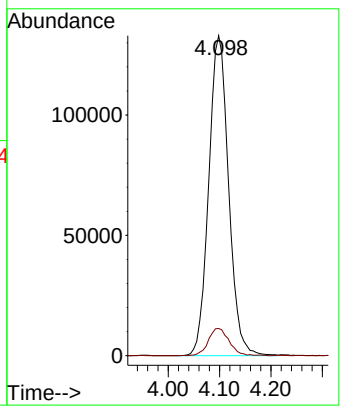


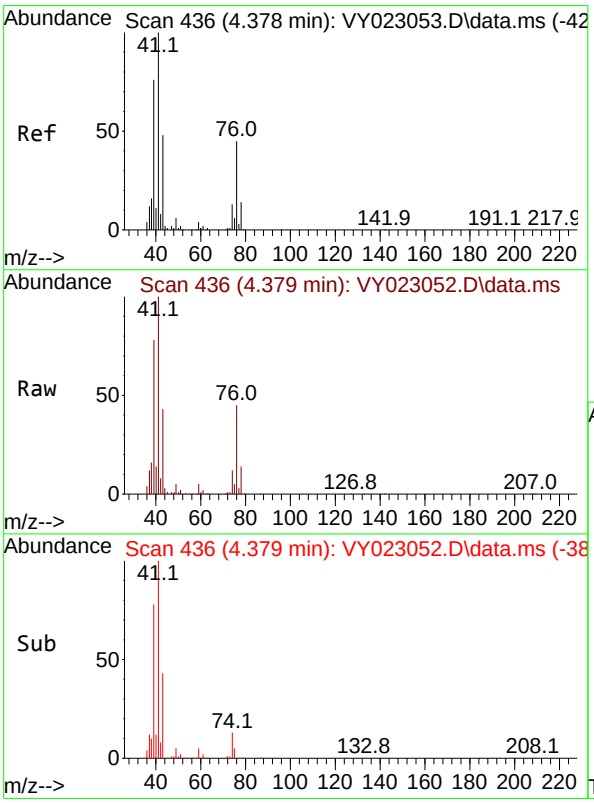

#17
Carbon Disulfide
Concen: 21.157 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 76 Resp: 357484

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.5 | 7.4 | 11.2 |

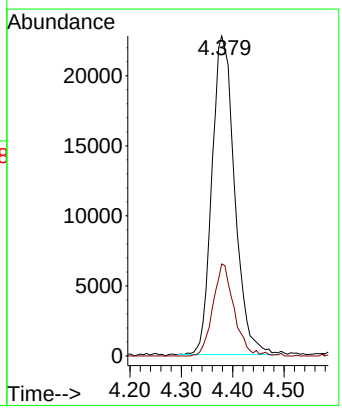


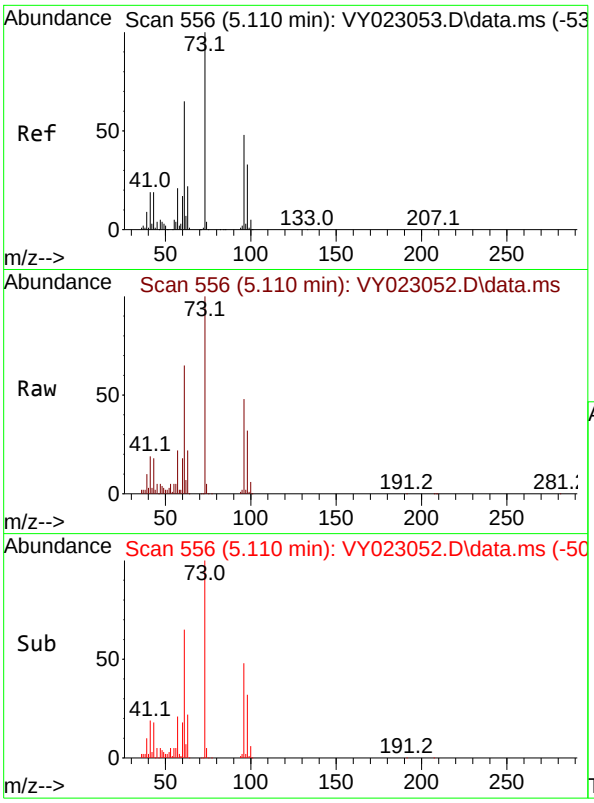




#18
Methyl Acetate
Concen: 21.141 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 43 Resp: 69853

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 27.0 | 21.2 | 31.8 |



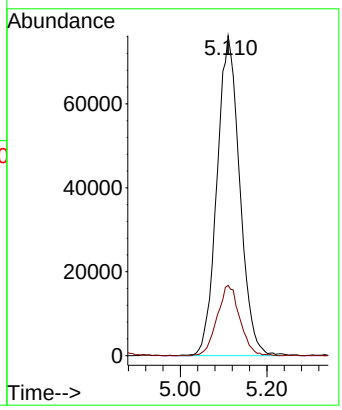


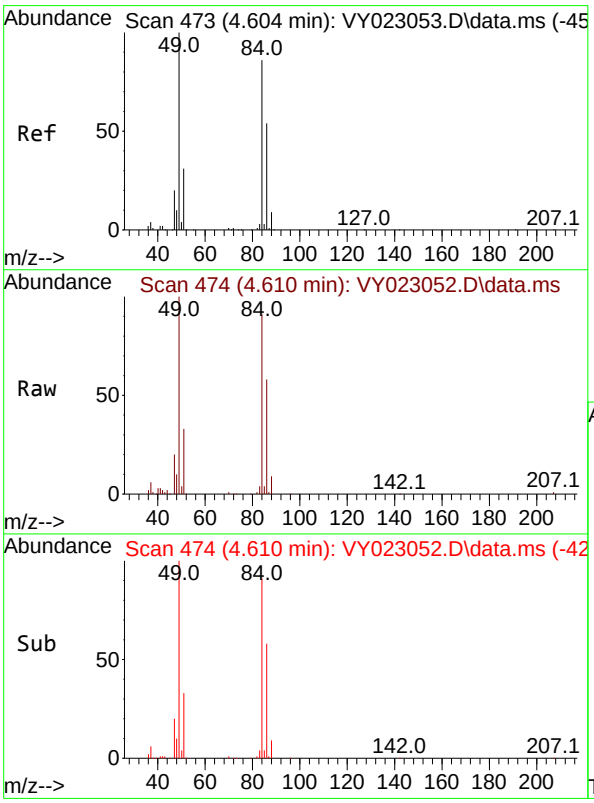

#19
Methyl tert-butyl Ether
Concen: 20.767 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 73 Resp: 278863

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.9 | 17.1 | 25.7 |

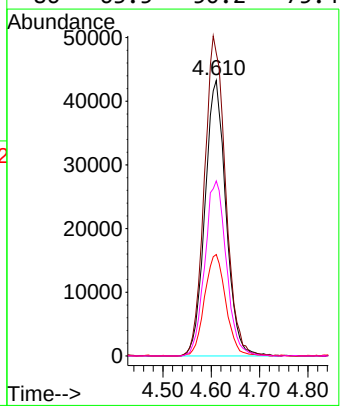


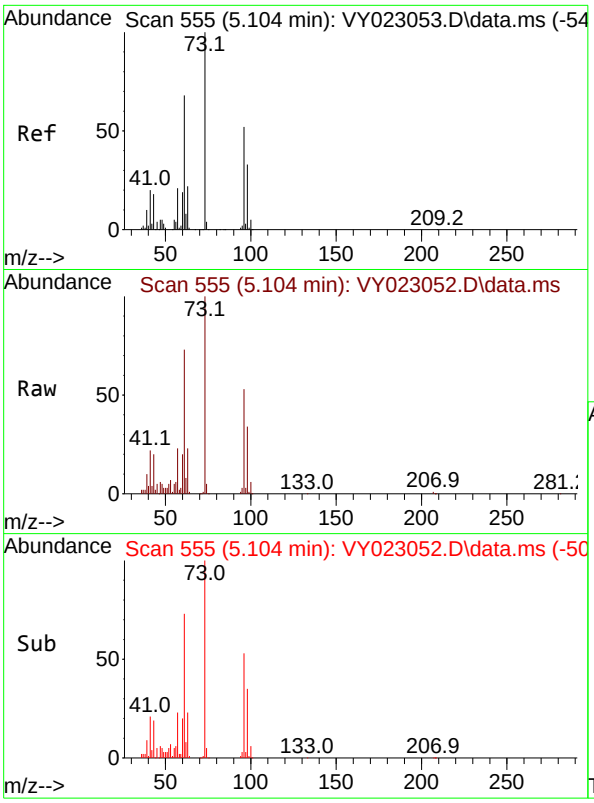




#20
Methylene Chloride
Concen: 21.069 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 84 Resp: 130416

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 109.9 | 93.0 | 139.6 |
| 51 | 36.8 | 29.0 | 43.4 |
| 86 | 63.5 | 50.2 | 75.4 |



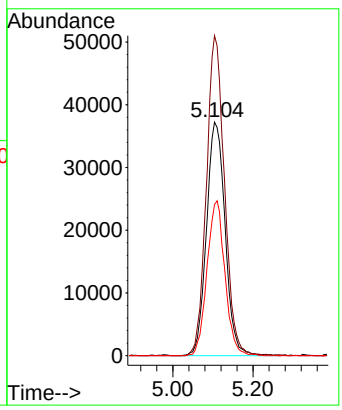


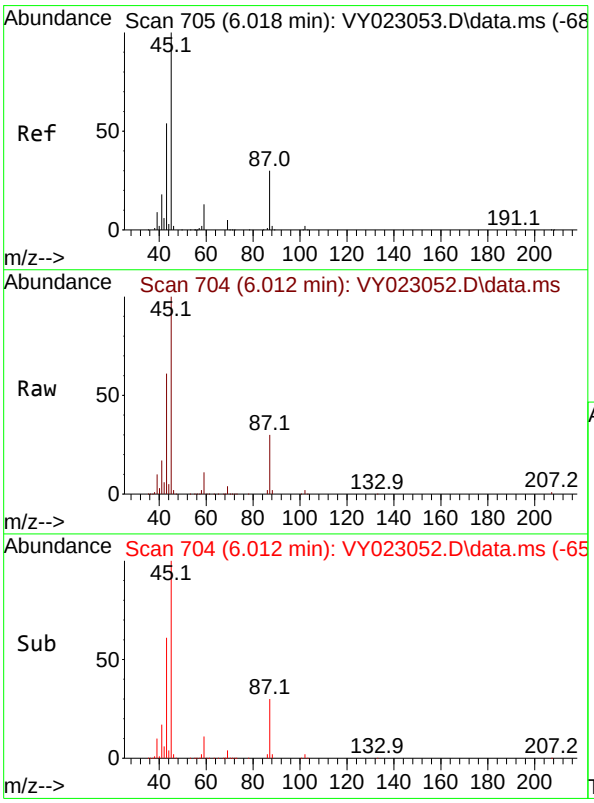

#21
trans-1,2-Dichloroethene
Concen: 20.661 ug/l
RT: 5.104 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 96 Resp: 120321

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 137.0 | 104.8 | 157.2 |
| 98 | 64.7 | 50.1 | 75.1 |

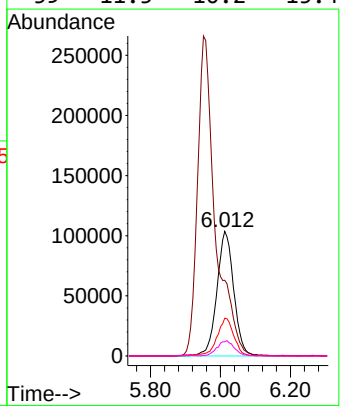


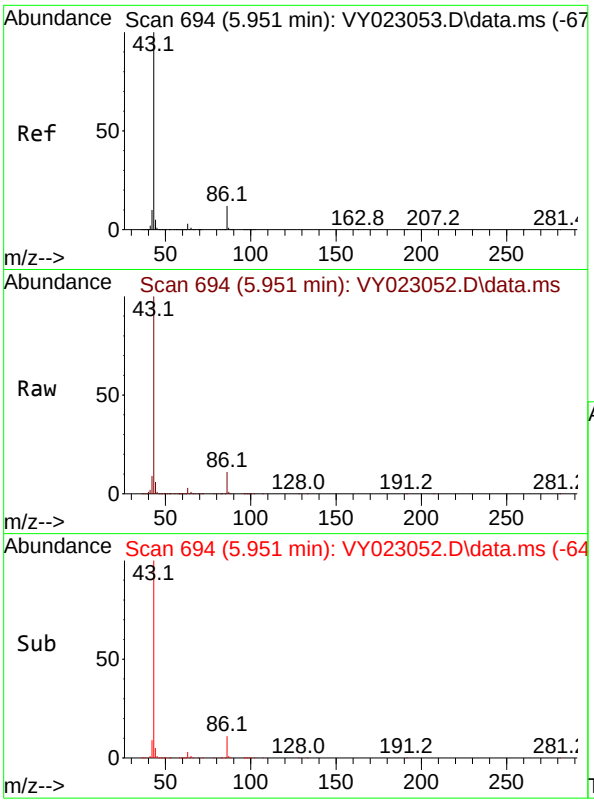




#22
Diisopropyl ether
Concen: 20.894 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 45 Resp: 346195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 60.5 | 43.4 | 65.0 |
| 87 | 30.3 | 24.4 | 36.6 |
| 59 | 11.5 | 10.2 | 15.4 |



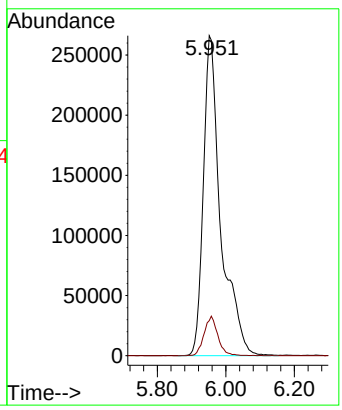


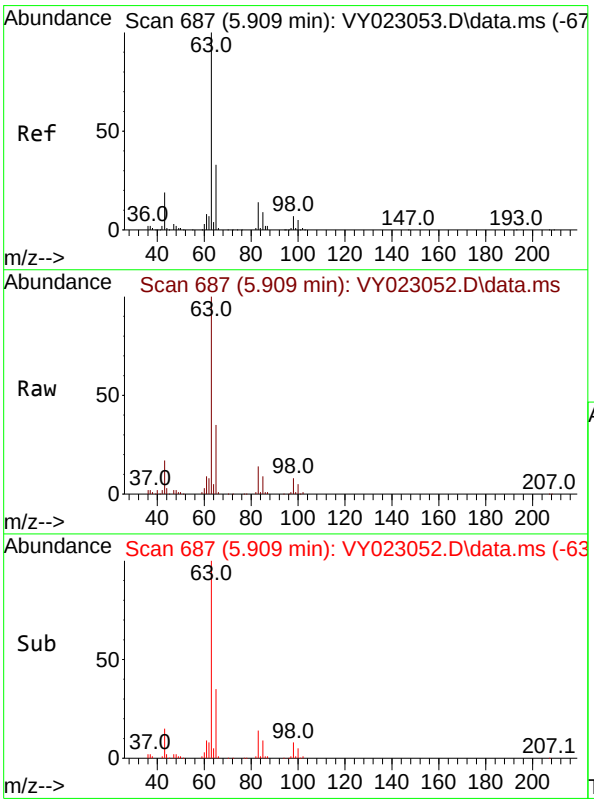

#23
Vinyl Acetate
Concen: 102.748 ug/l
RT: 5.951 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 43 Resp: 941364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.0 | 9.6 | 14.4 |

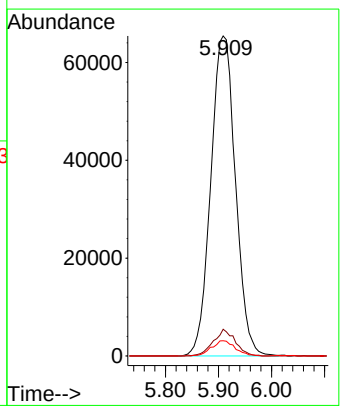


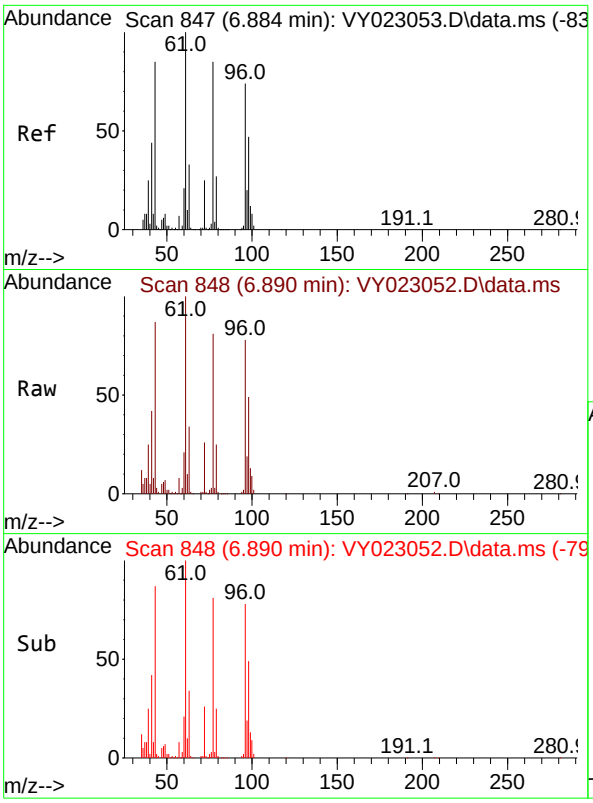




#24
1,1-Dichloroethane
Concen: 20.884 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 63 Resp: 211558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 8.4 | 3.5 | 10.6 |
| 100 | 4.8 | 2.4 | 7.1 |



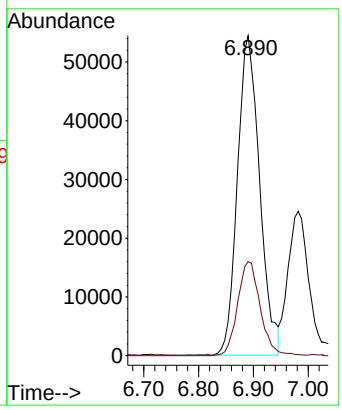


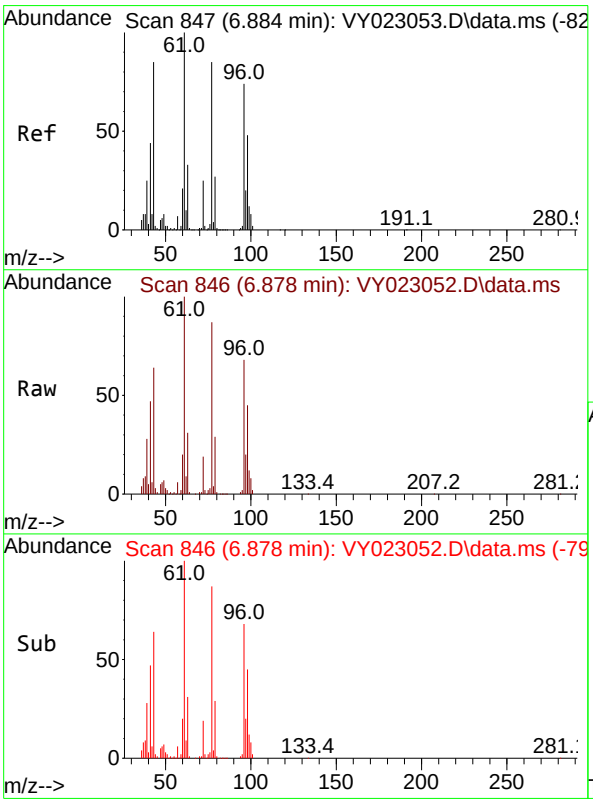

#25
2-Butanone
Concen: 101.559 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 43 Resp: 153363

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 29.5 | 23.5 | 35.3 |

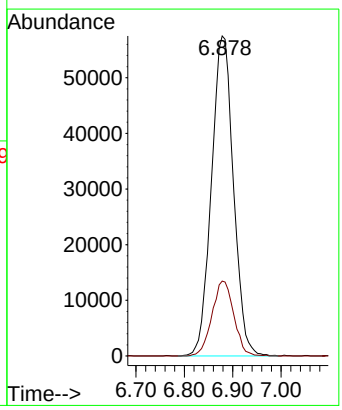


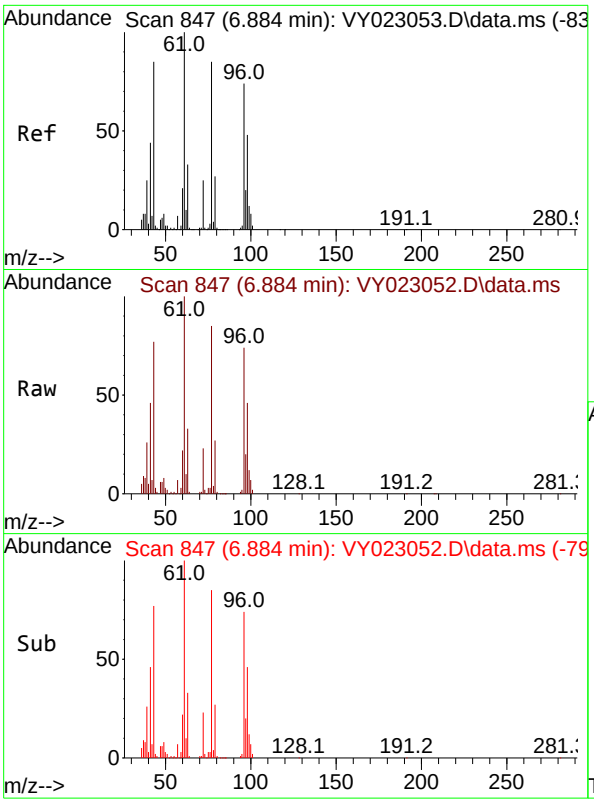




#26
2,2-Dichloropropane
Concen: 20.767 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 77 Resp: 181528

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.2 | 11.6 | 34.8 |



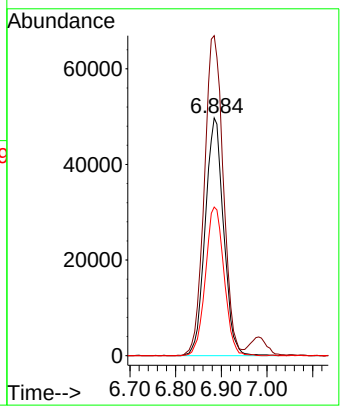


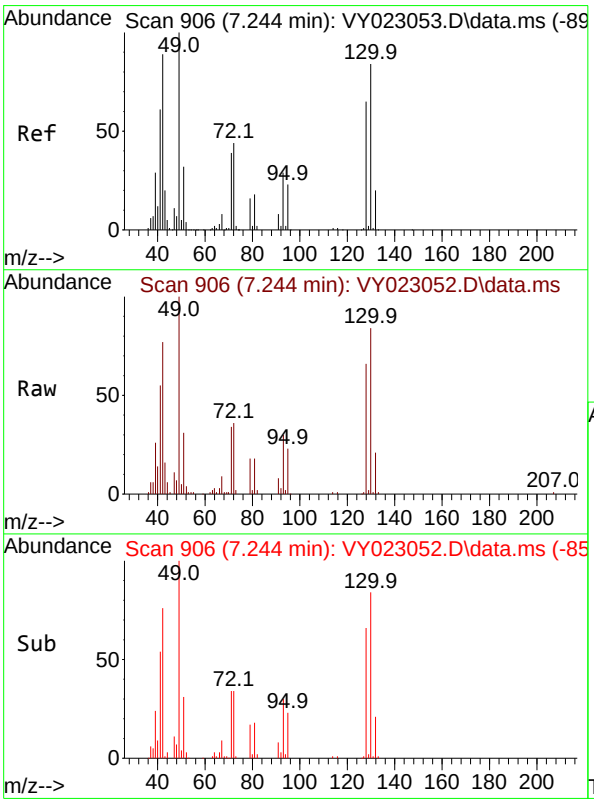

#27
cis-1,2-Dichloroethene
Concen: 20.613 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 96 Resp: 138775

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 138.7 | 0.0 | 278.6 |
| 98 | 63.4 | 0.0 | 130.4 |

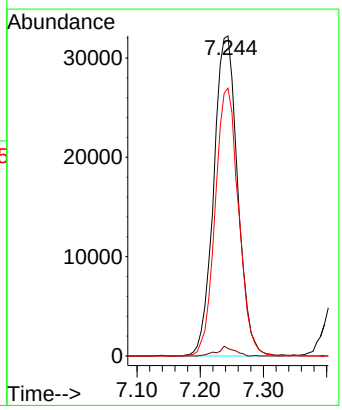


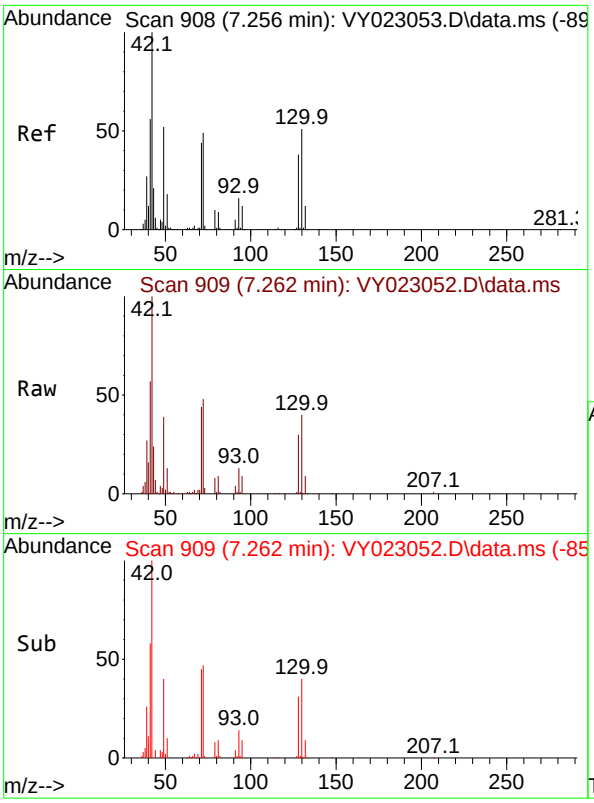




#28
Bromochloromethane
Concen: 21.035 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 49 Resp: 84540

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.2 | 0.0 | 4.2 |
| 130 | 81.7 | 66.4 | 99.6 |



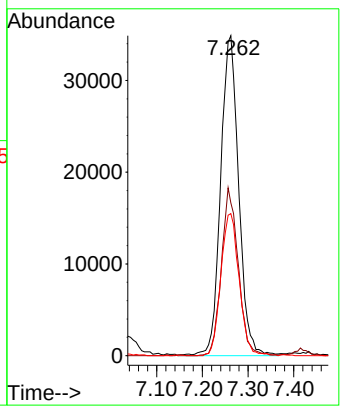


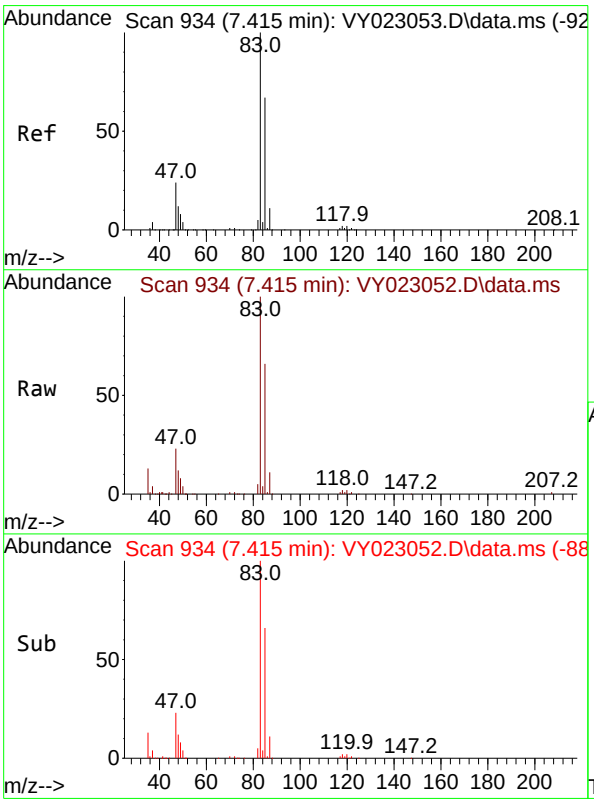

#29
Tetrahydrofuran
Concen: 102.341 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 42 Resp: 95795

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 48.8 | 39.4 | 59.2 |
| 71 | 44.8 | 36.5 | 54.7 |

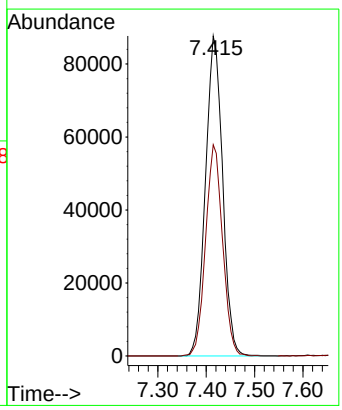


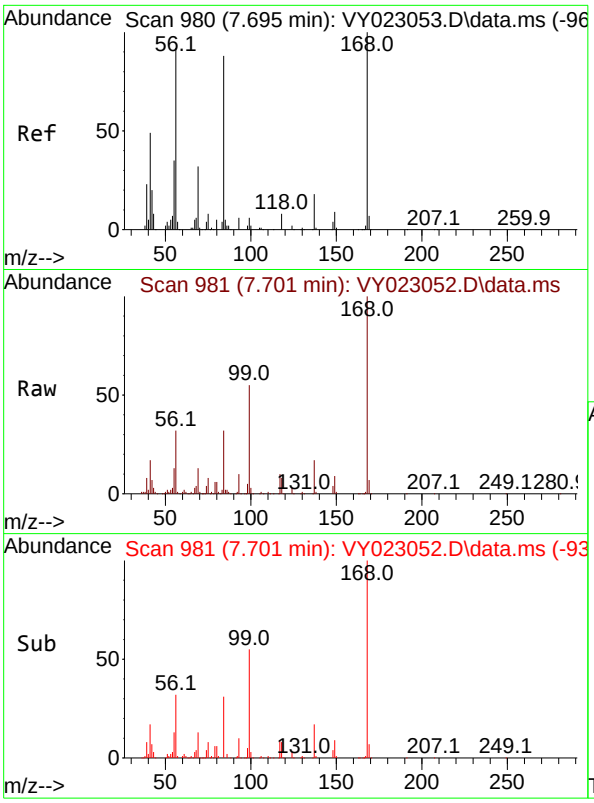




#30
Chloroform
Concen: 20.635 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 83 Resp: 215585

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 66.0 | 53.8 | 80.8 |



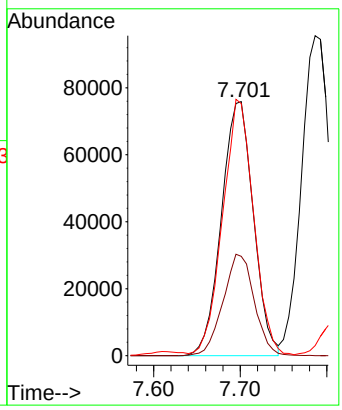


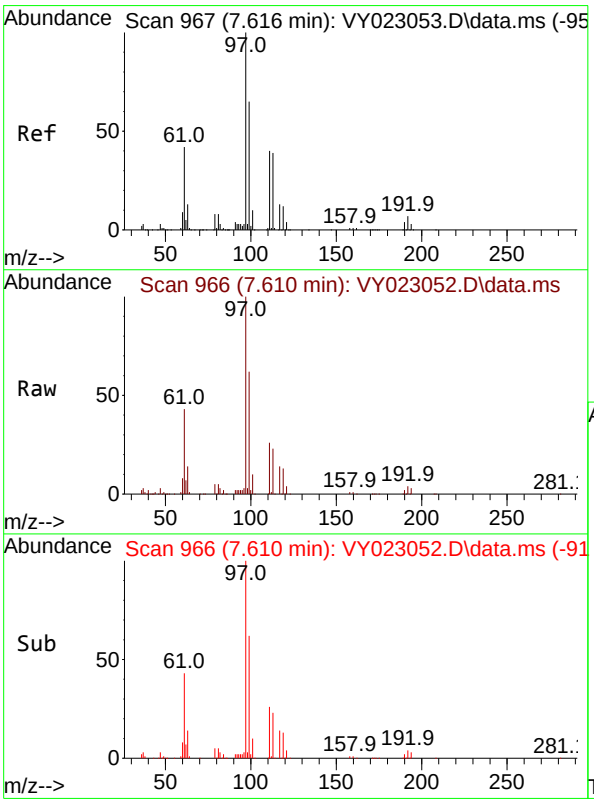

#31
Cyclohexane
Concen: 20.393 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 56 Resp: 194671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 39.1 | 28.2 | 42.2 |
| 84 | 98.0 | 76.6 | 114.8 |

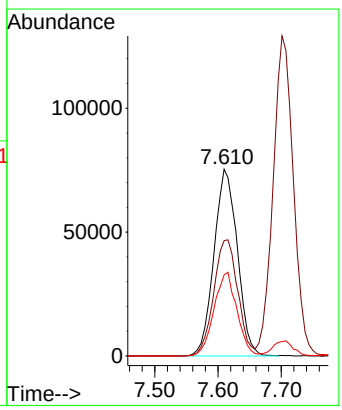


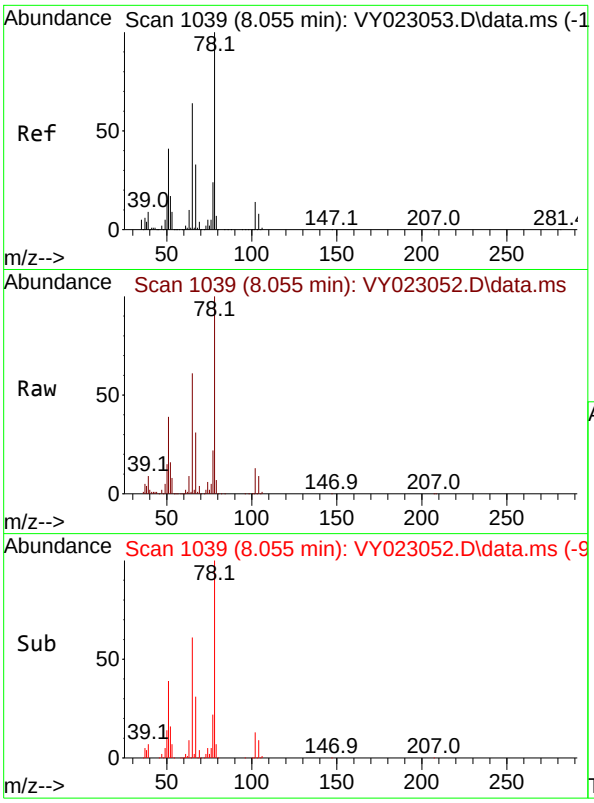




#32
1,1,1-Trichloroethane
Concen: 20.848 ug/l
RT: 7.610 min Scan# 966
Delta R.T. -0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 97 Resp: 193268

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.1 | 51.6 | 77.4 |
| 61 | 43.9 | 34.2 | 51.2 |



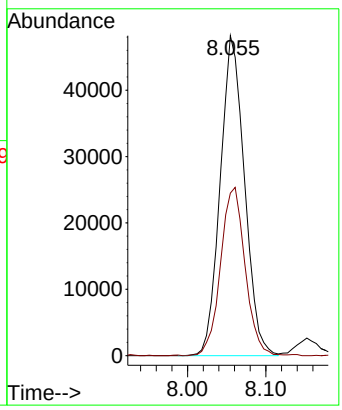


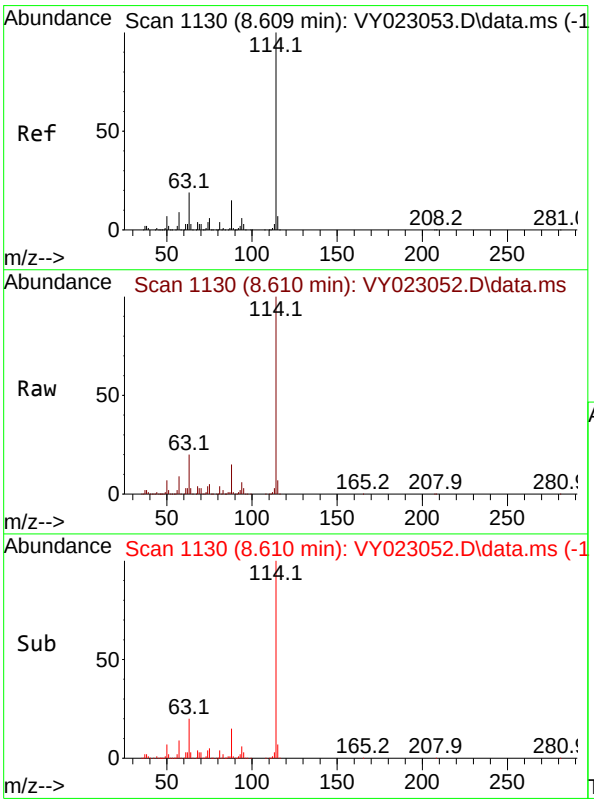

#33
1,2-Dichloroethane-d4
Concen: 20.244 ug/l
RT: 8.055 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 65 Resp: 103755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.4 | 0.0 | 106.8 |

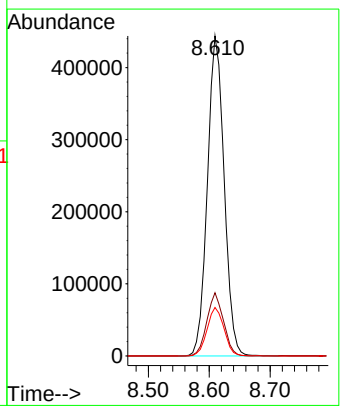


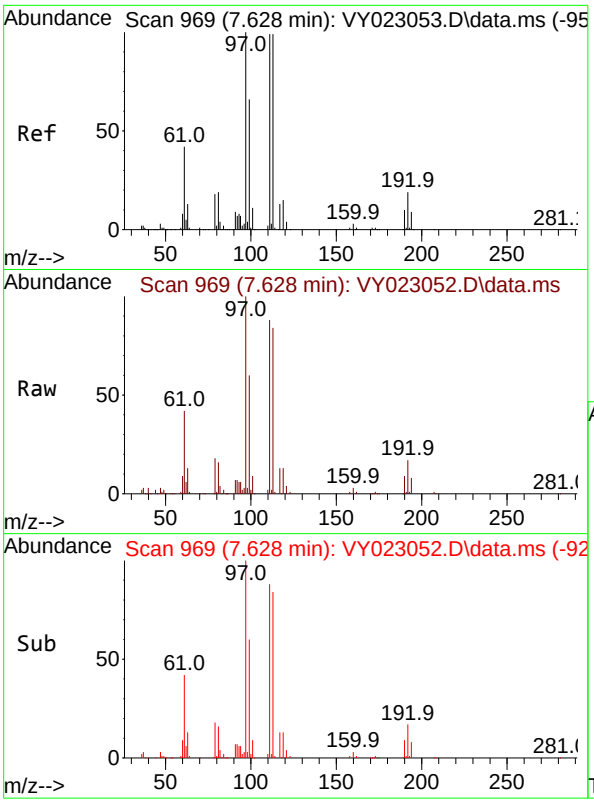




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:114 Resp: 848953

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.8 | 0.0 | 38.4 |
| 88 | 15.2 | 0.0 | 30.0 |



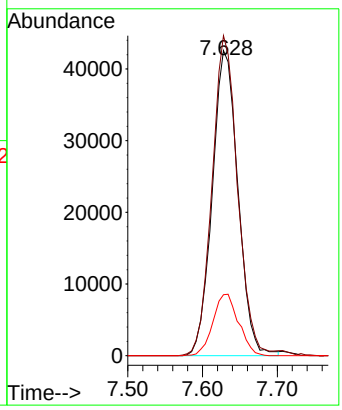


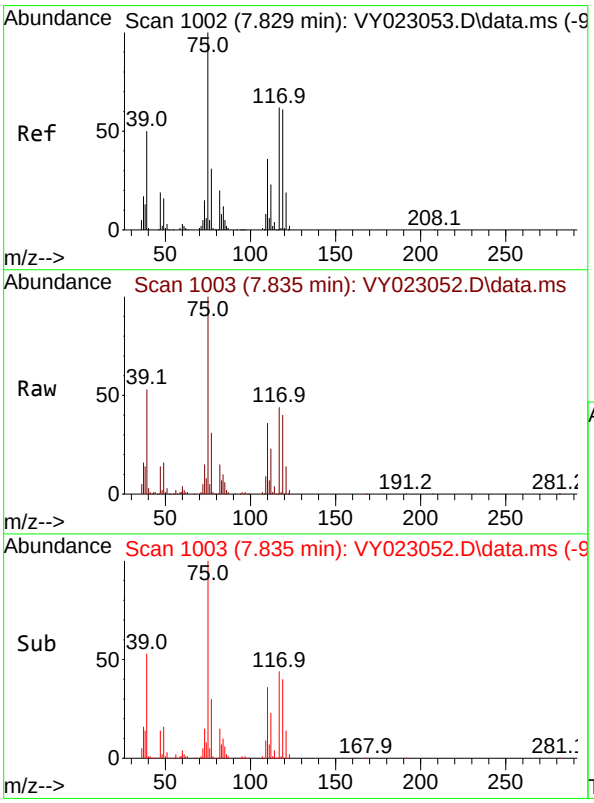

#35
Dibromofluoromethane
Concen: 20.093 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:113 Resp: 102068

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.9 | 81.1 | 121.7 |
| 192 | 20.1 | 16.2 | 24.4 |

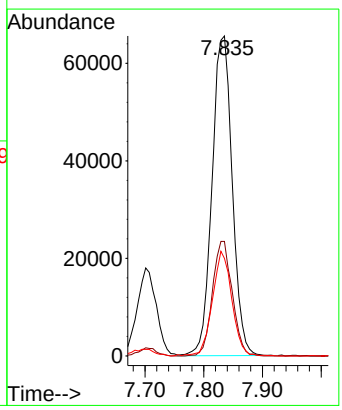


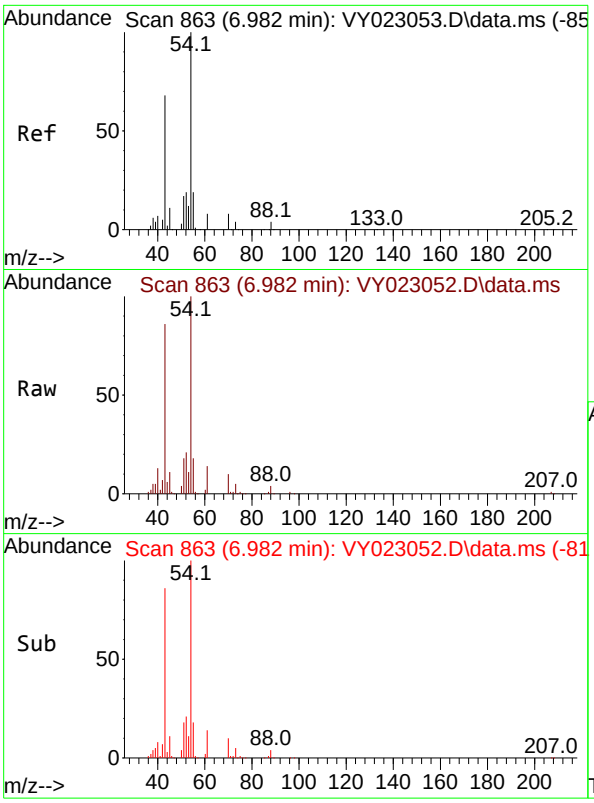




#36
1,1-Dichloropropene
Concen: 20.746 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 75 Resp: 156617

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.1 | 18.1 | 54.4 |
| 77 | 31.6 | 24.6 | 37.0 |



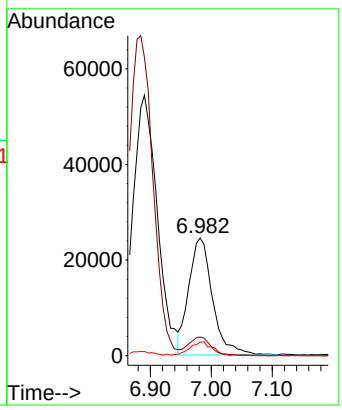


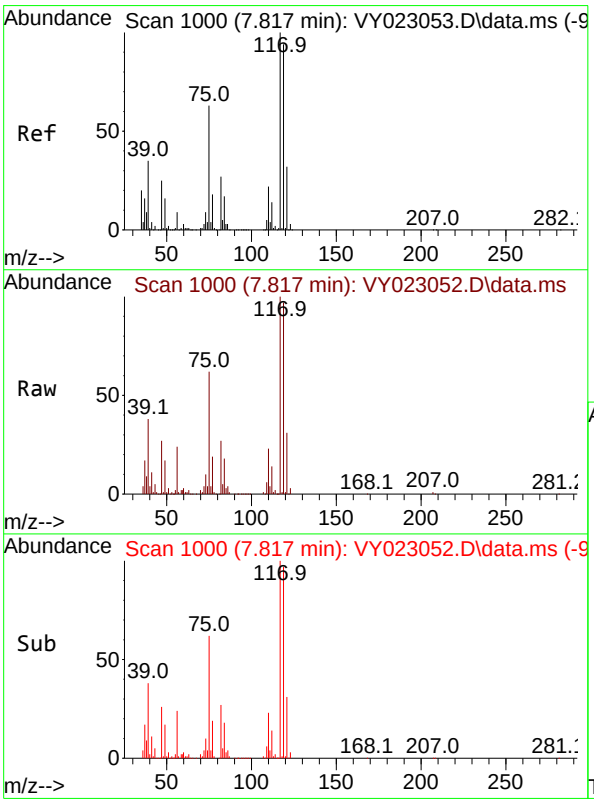

#37
Ethyl Acetate
Concen: 20.944 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 43 Resp: 66420

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.8 | 11.9 | 17.9 |
| 70 | 11.0 | 8.8 | 13.2 |

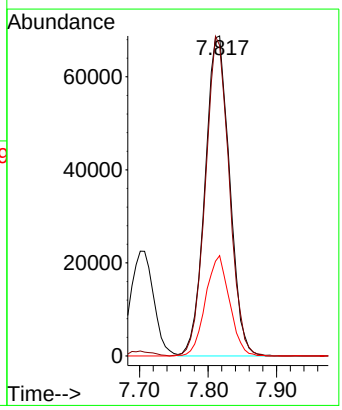


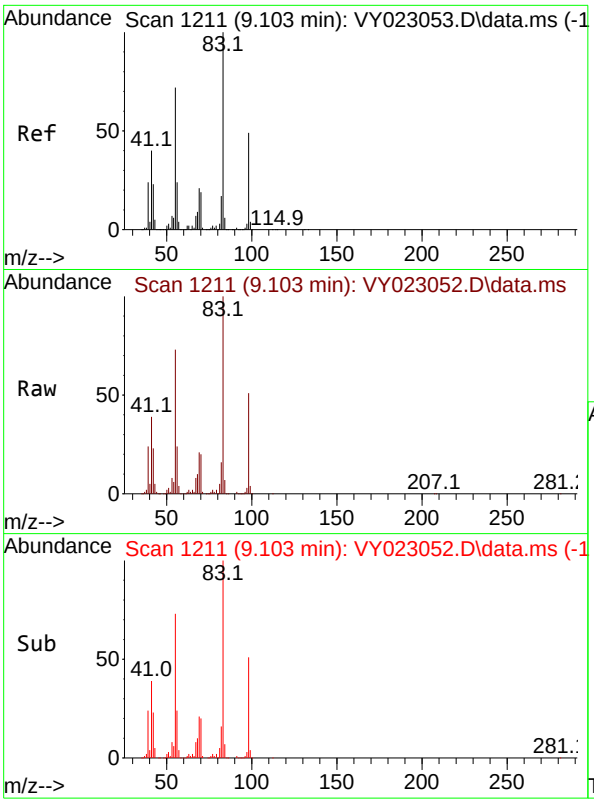




#38
Carbon Tetrachloride
Concen: 20.897 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:117 Resp: 171344

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 97.0 | 75.6 | 113.4 |
| 121 | 31.3 | 25.8 | 38.8 |



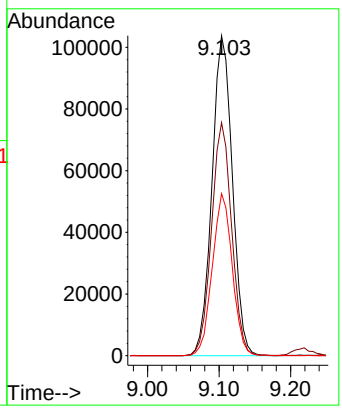


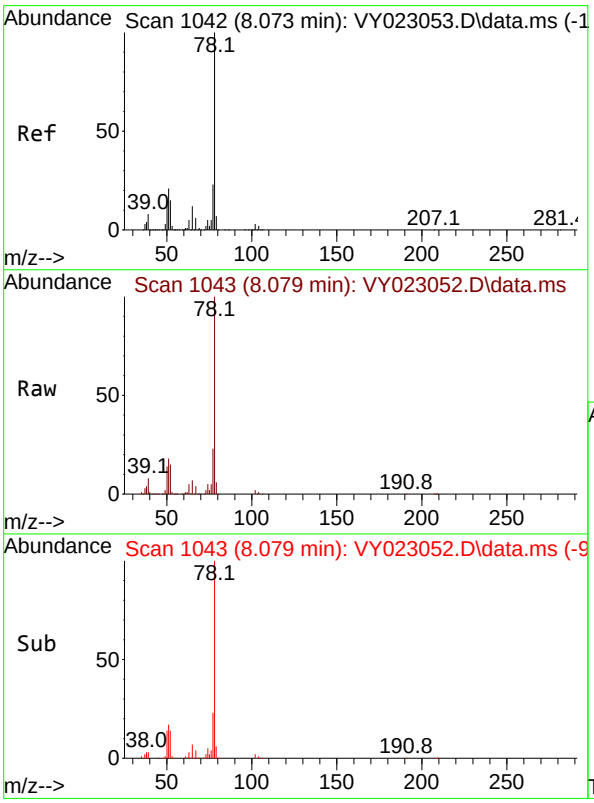

#39
Methylcyclohexane
Concen: 20.680 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 83 Resp: 205594

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 72.8 | 57.6 | 86.4 |
| 98 | 50.7 | 39.2 | 58.8 |

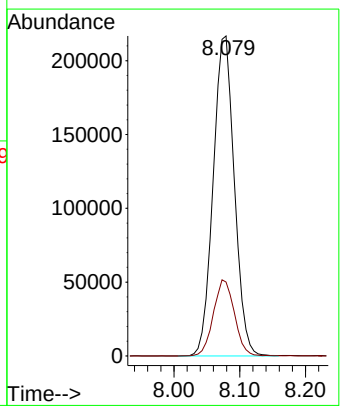


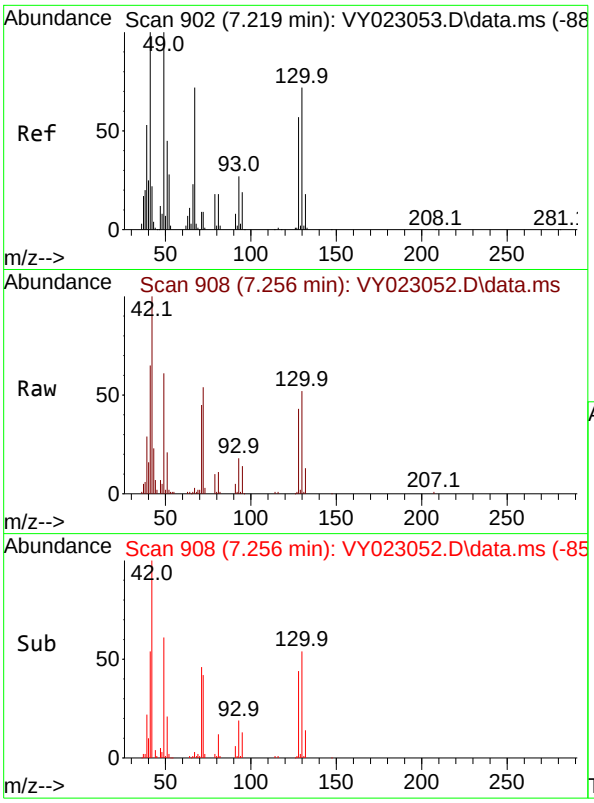




#40
Benzene
Concen: 20.871 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 78 Resp: 485631

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.1 | 18.6 | 28.0 |



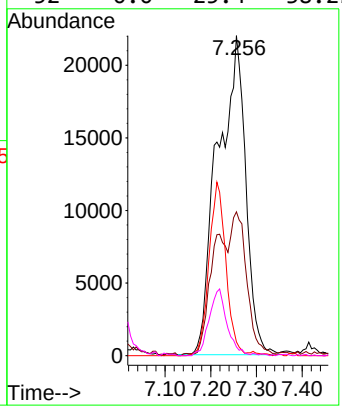


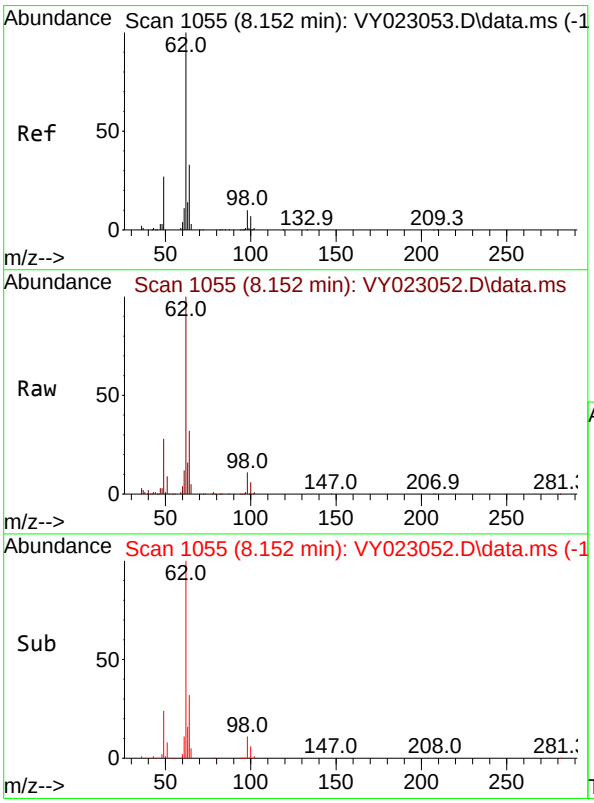

#41
Methacrylonitrile
Concen: 50.787 ug/l
RT: 7.256 min Scan# 9
Delta R.T. 0.037 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 41 Resp: 93052

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 25.3 | 43.4 | 65.2# |
| 67 | 0.0 | 63.6 | 95.4# |
| 52 | 0.0 | 25.4 | 38.2# |

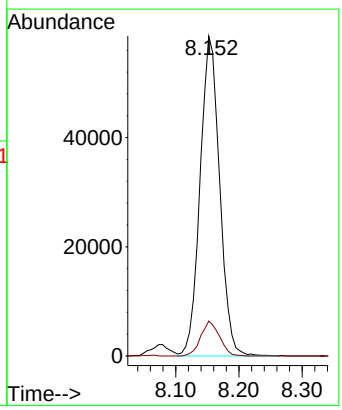


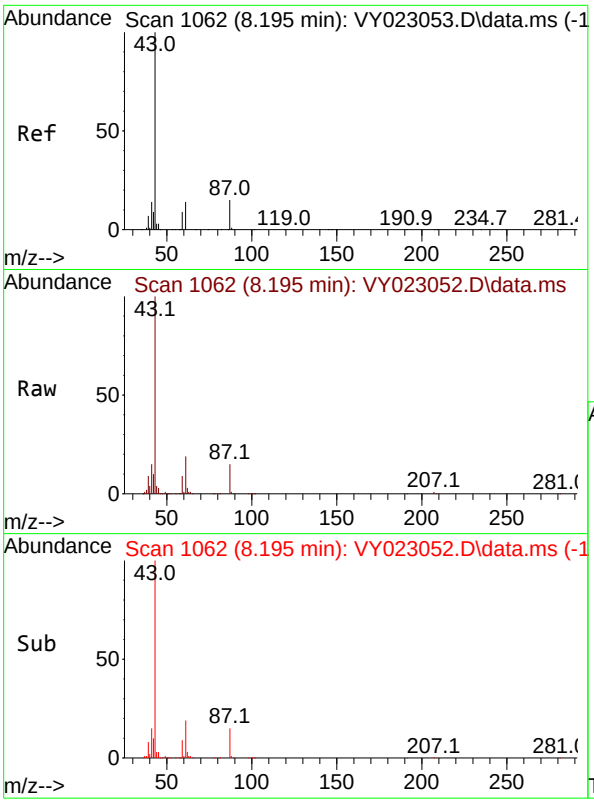




#42
1,2-Dichloroethane
Concen: 20.839 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 62 Resp: 126111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.4 | 0.0 | 20.6 |



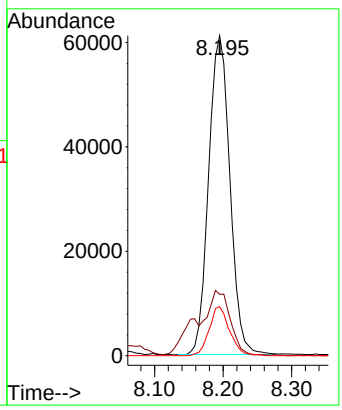


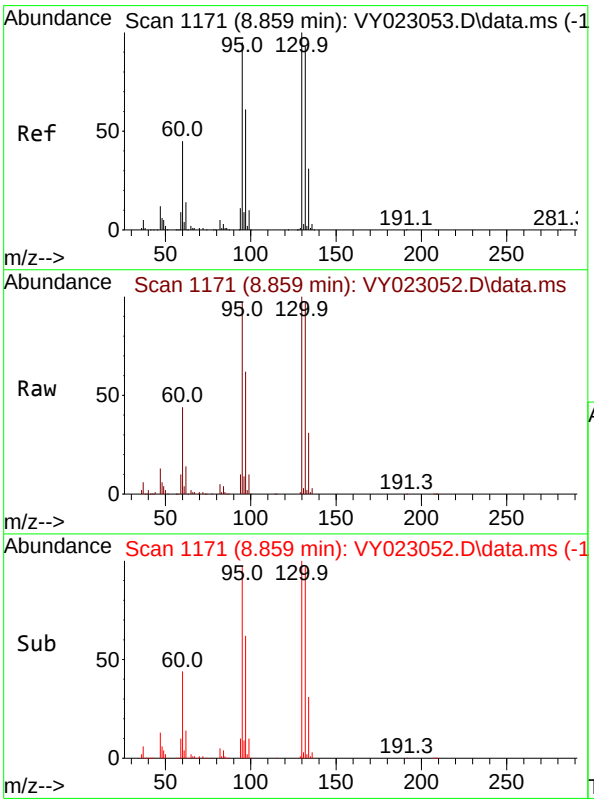

#43
Isopropyl Acetate
Concen: 20.571 ug/l
RT: 8.195 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 43 Resp: 131854

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 22.2 | 16.4 | 24.6 |
| 87 | 14.7 | 11.8 | 17.6 |

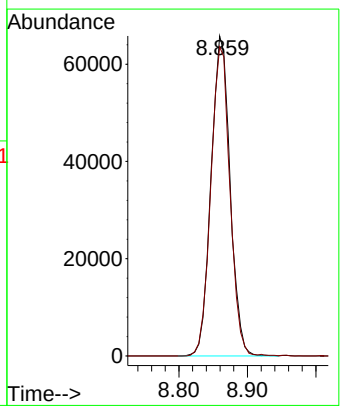


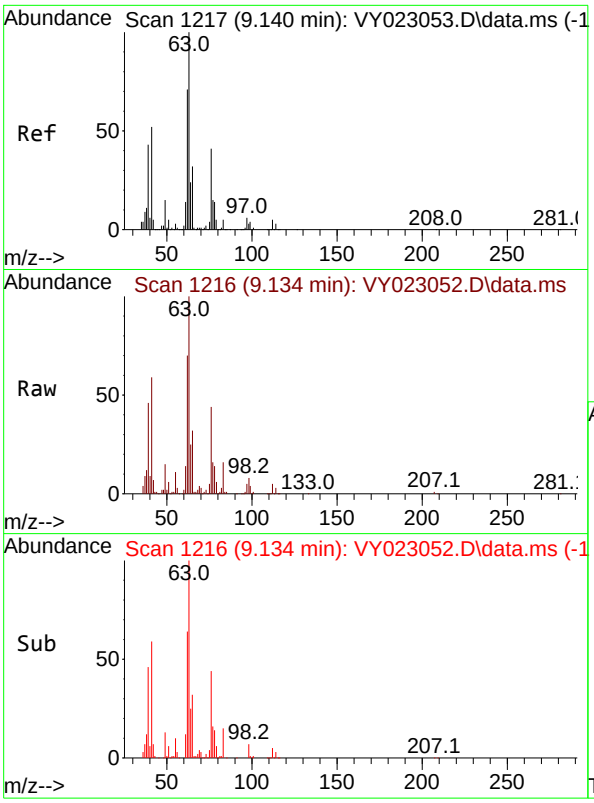




#44
Trichloroethene
Concen: 21.083 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:130 Resp: 126772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 96.6 | 0.0 | 190.2 |



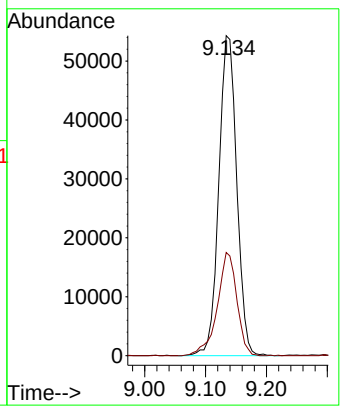


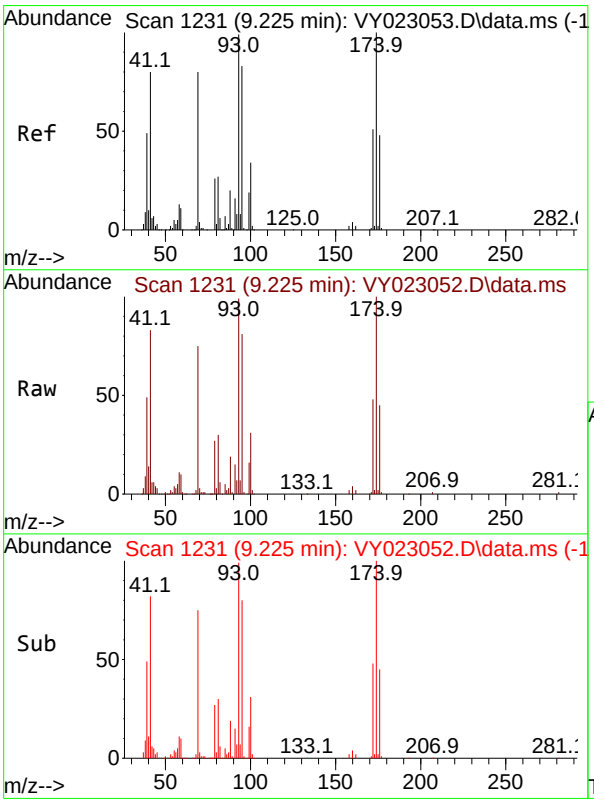

#45
1,2-Dichloropropane
Concen: 20.677 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 63 Resp: 110699

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 32.2 | 25.3 | 37.9 |

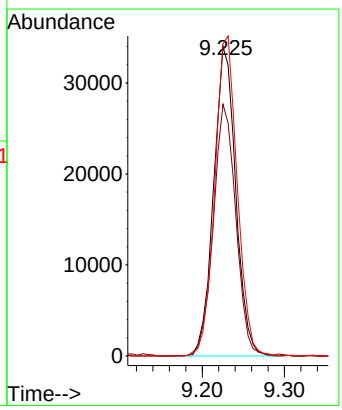


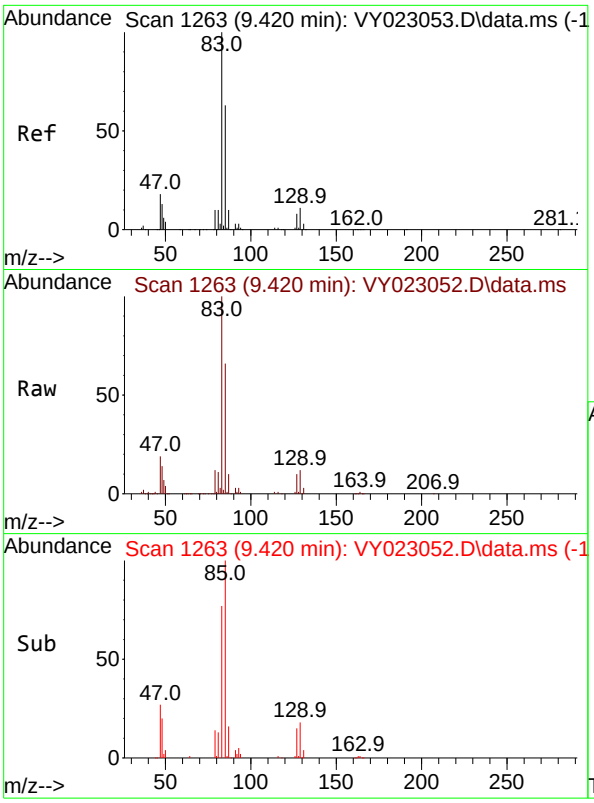




#46
Dibromomethane
Concen: 20.635 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 93 Resp: 63410

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.8 | 66.5 | 99.7 |
| 174 | 105.0 | 81.8 | 122.8 |



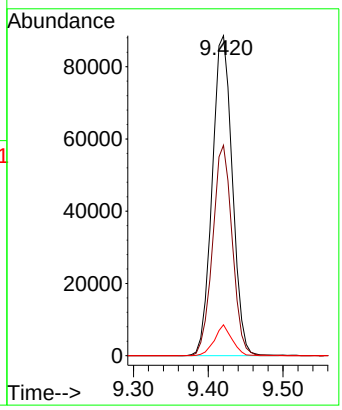


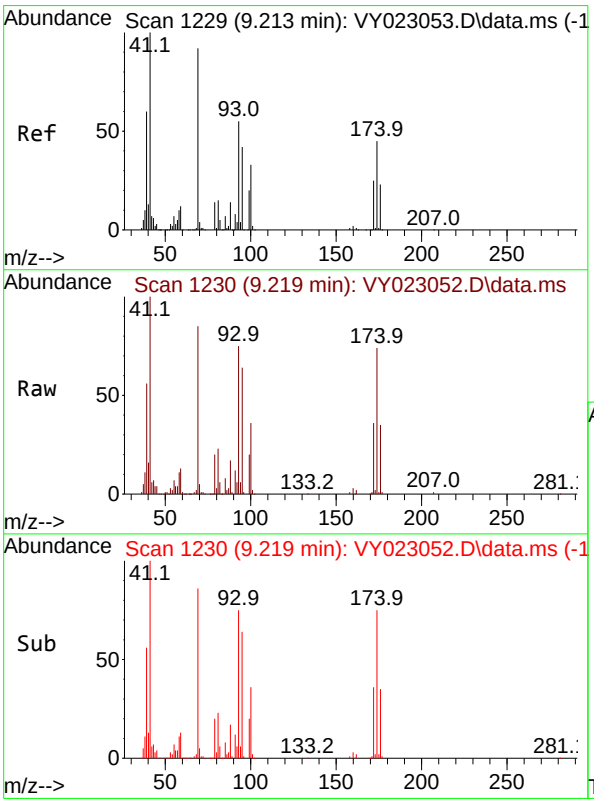

#47
Bromodichloromethane
Concen: 20.988 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 83 Resp: 165954

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.8 | 50.2 | 75.4 |
| 127 | 9.6 | 6.6 | 10.0 |

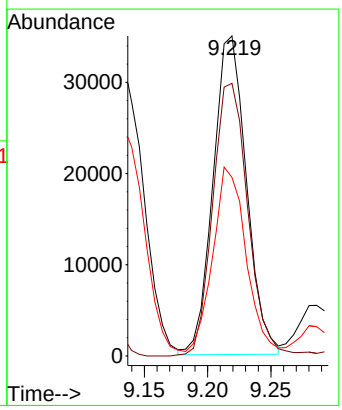


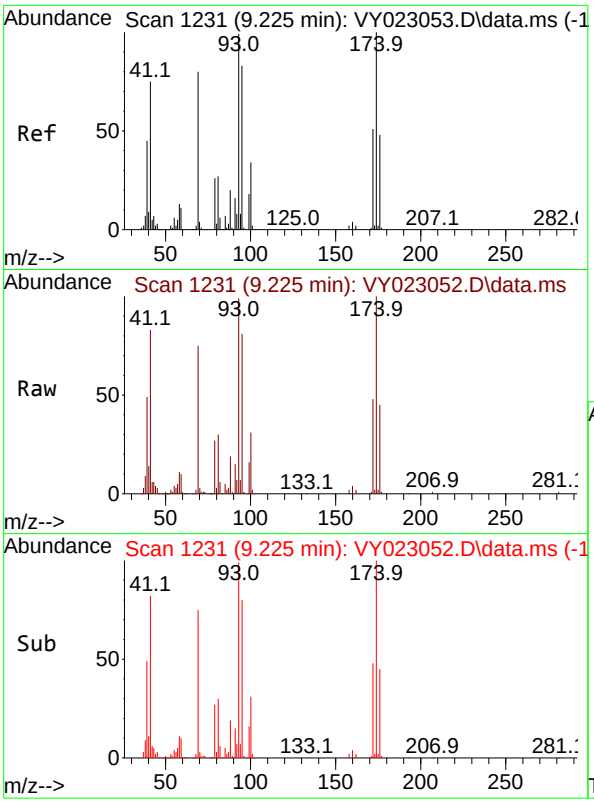




#48
Methyl methacrylate
Concen: 20.905 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 41 Resp: 64120

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 89.9 | 73.2 | 109.8 |
| 39 | 57.0 | 47.0 | 70.4 |



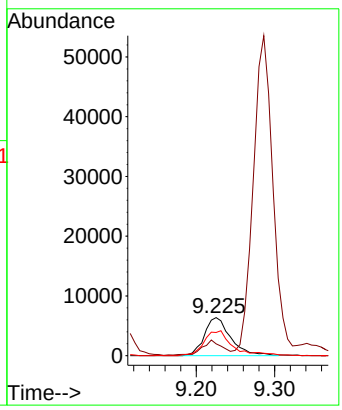


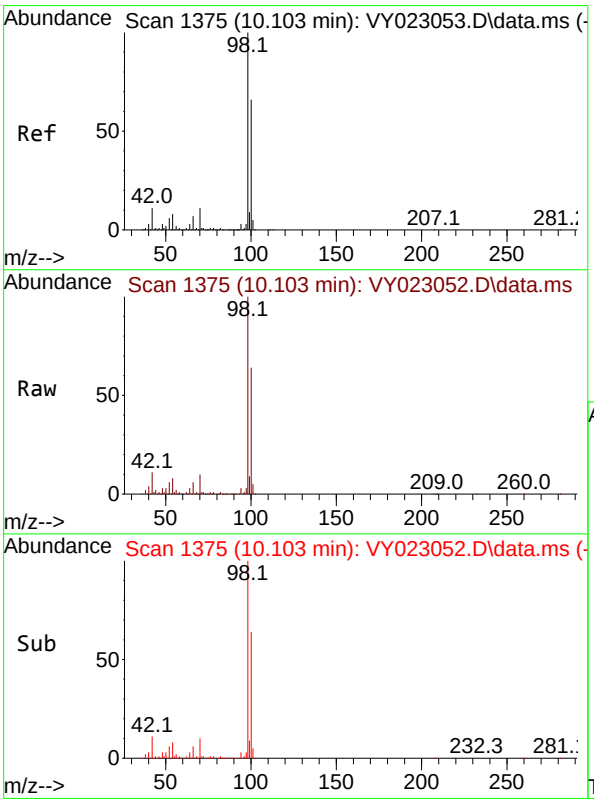

#49
1,4-Dioxane
Concen: 411.480 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 88 Resp: 14826

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 29.7 | 24.3 | 36.5 |
| 58 | 71.4 | 55.4 | 83.0 |

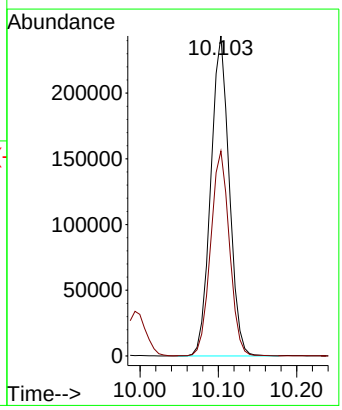


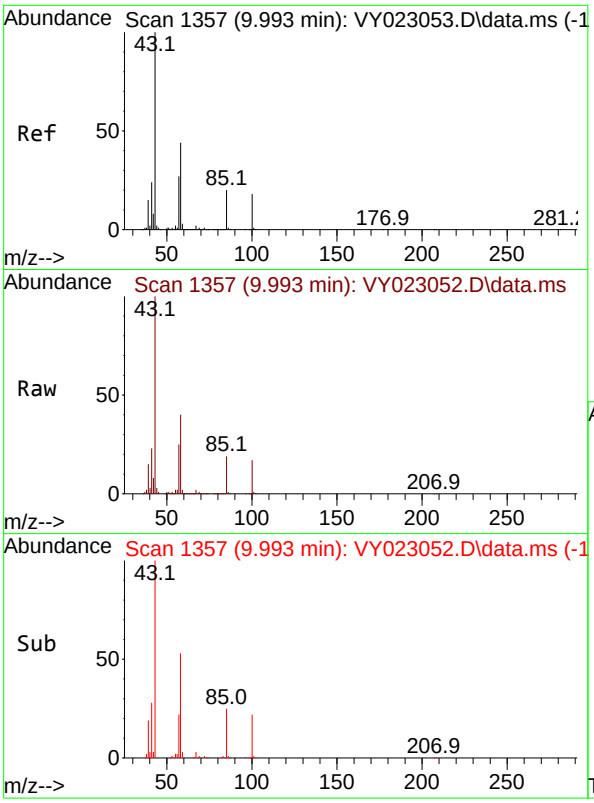




#50
Toluene-d8
Concen: 20.075 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 98 Resp: 398394

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.0 | 52.3 | 78.5 |



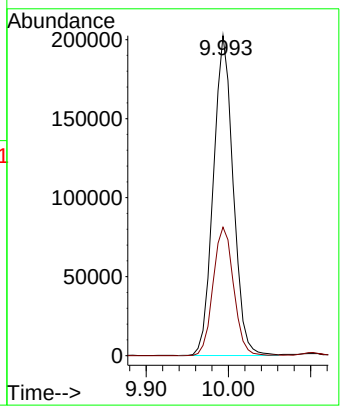


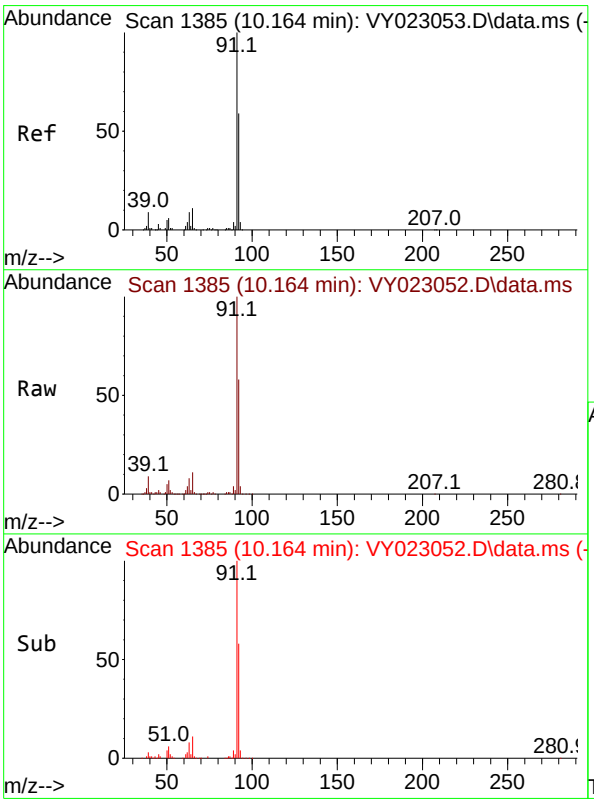

#51
4-Methyl-2-Pentanone
Concen: 102.622 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 43 Resp: 339298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 41.6 | 33.5 | 50.3 |

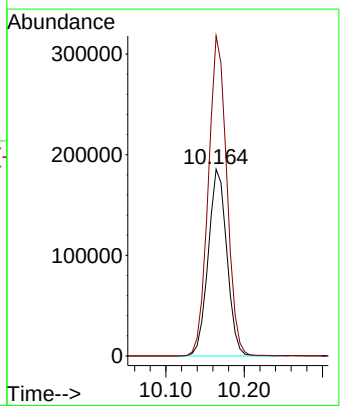


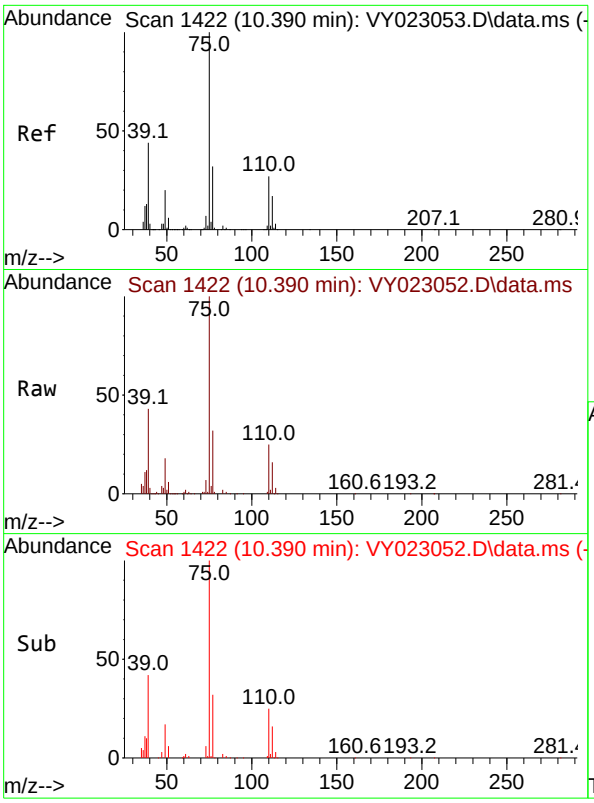




#52
Toluene
Concen: 20.719 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 92 Resp: 306193

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 170.2 | 136.4 | 204.6 |



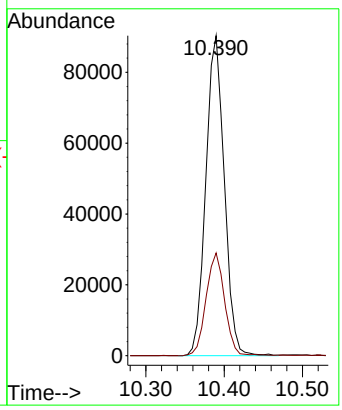


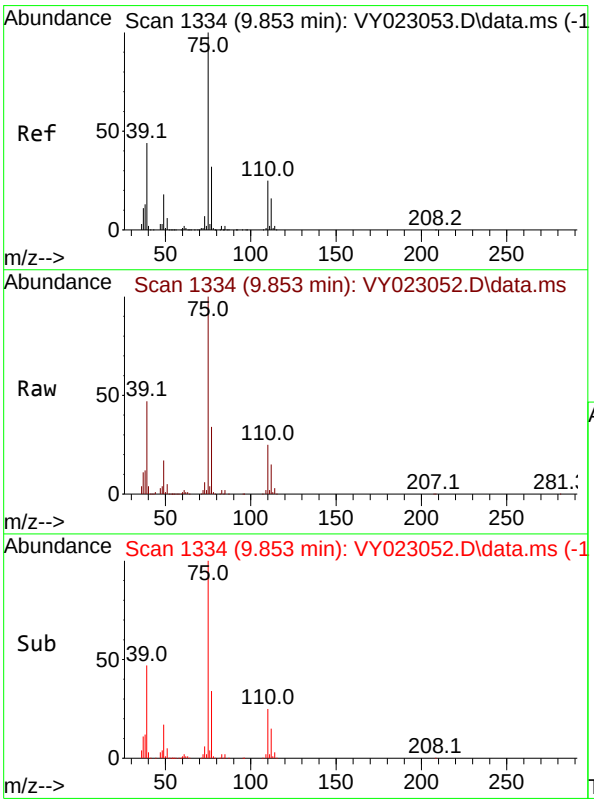

#53
t-1,3-Dichloropropene
Concen: 20.627 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 75 Resp: 147696

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.1 | 25.7 | 38.5 |

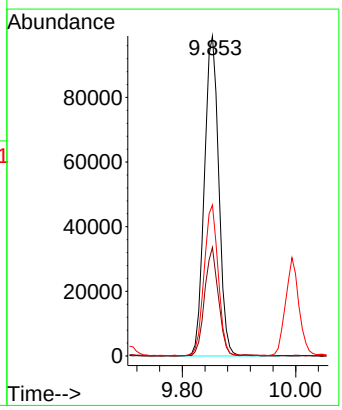


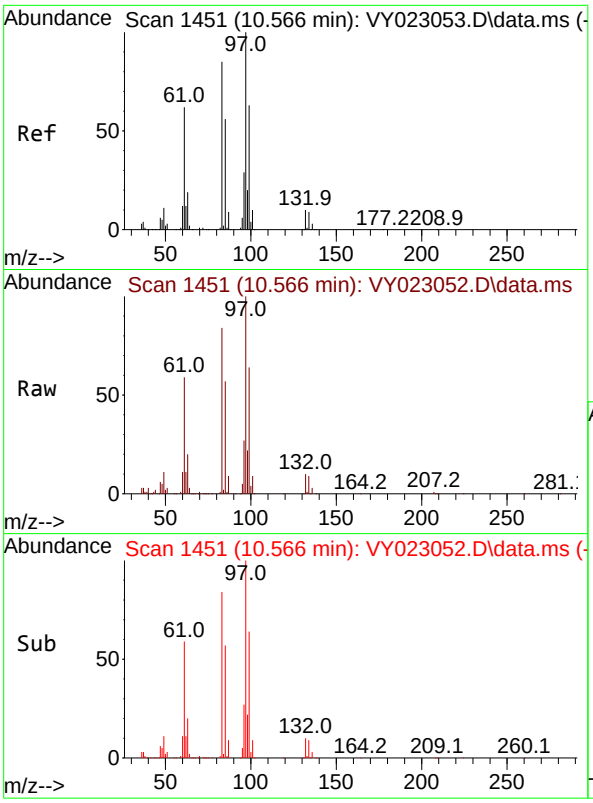




#54
cis-1,3-Dichloropropene
Concen: 20.580 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 75 Resp: 174243

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 33.9 | 25.4 | 38.0 |
| 39 | 47.1 | 35.6 | 53.4 |



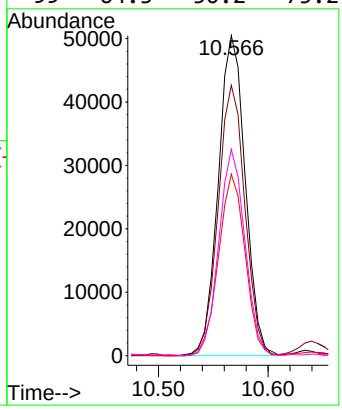


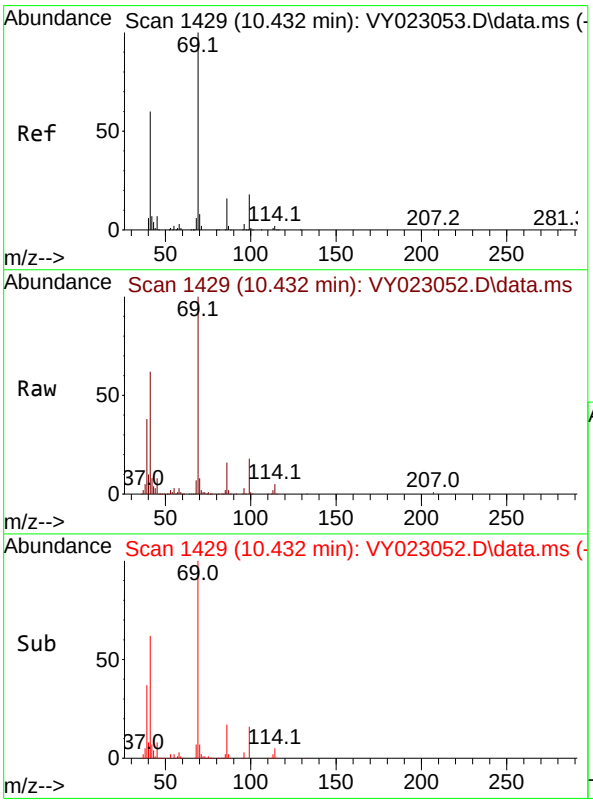

#55
1,1,2-Trichloroethane
Concen: 20.920 ug/l
RT: 10.566 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 97 Resp: 86022

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 84.5 | 67.7 | 101.5 |
| 85 | 56.7 | 44.5 | 66.7 |
| 99 | 64.3 | 50.2 | 75.2 |

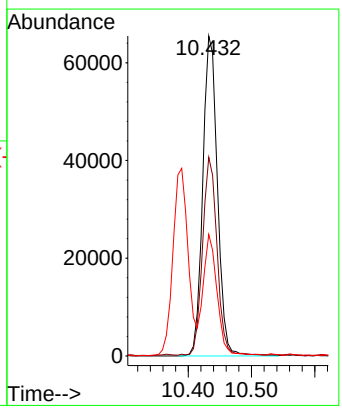


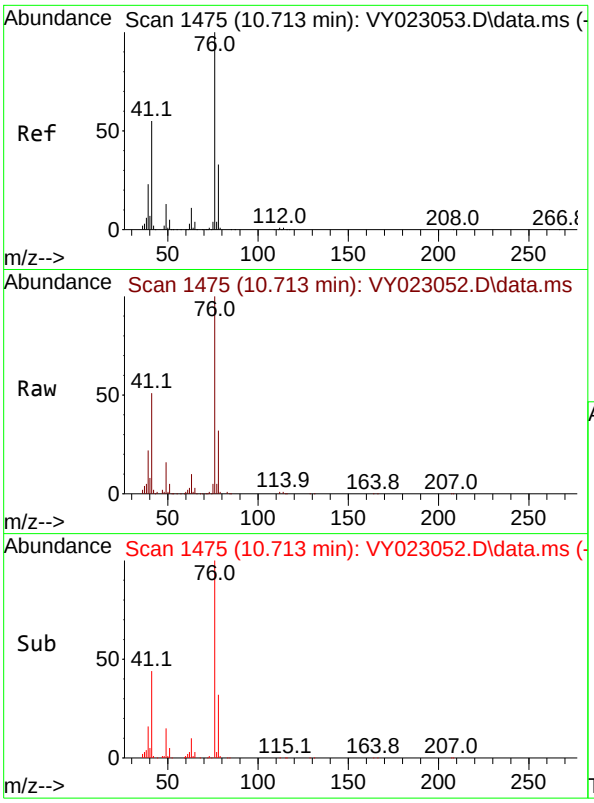




#56
Ethyl methacrylate
Concen: 20.111 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 69 Resp: 105816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 61.2 | 48.6 | 72.8 |
| 39 | 34.7 | 27.0 | 40.4 |



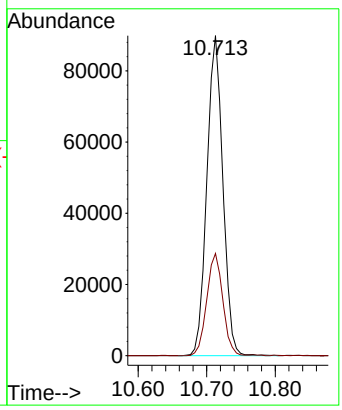


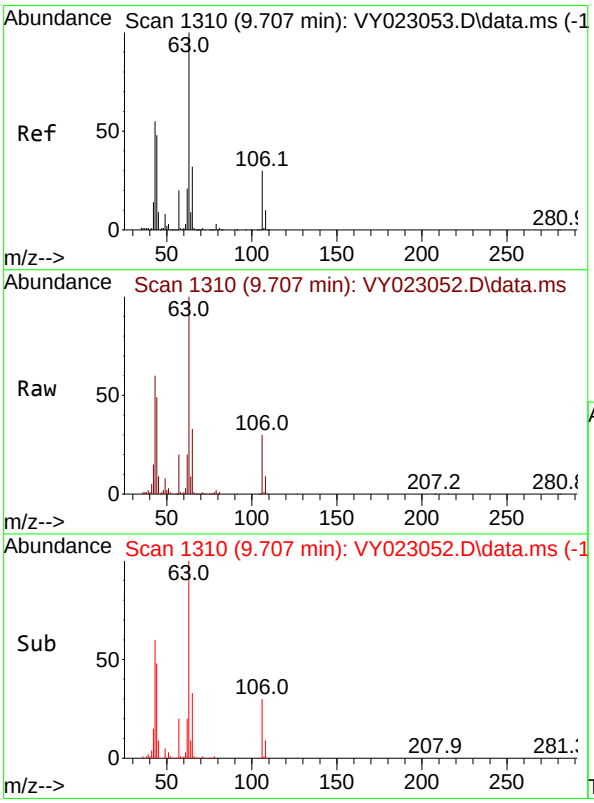

#57
1,3-Dichloropropane
Concen: 20.882 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 76 Resp: 145621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.1 | 26.0 | 39.0 |

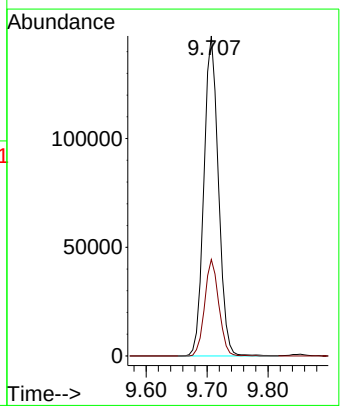


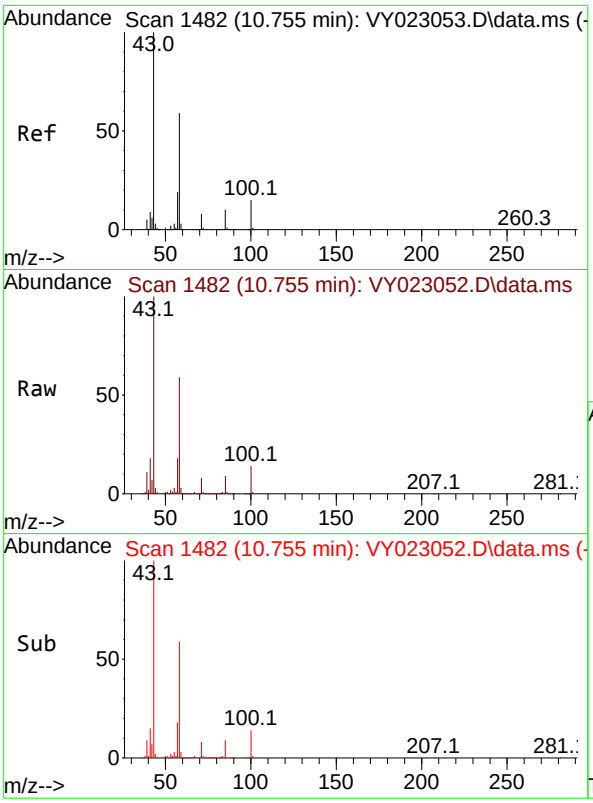




#58
2-Chloroethyl Vinyl ether
Concen: 98.450 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 63 Resp: 244340

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 29.3 | 23.2 | 34.8 |



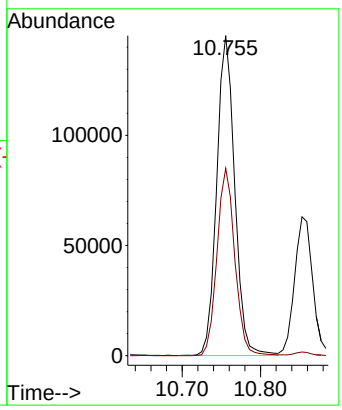


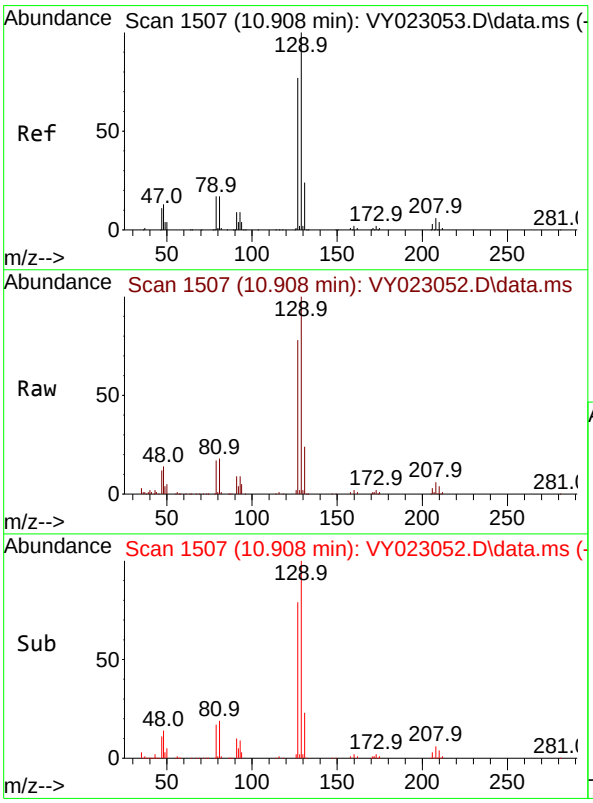

#59
2-Hexanone
Concen: 102.992 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 43 Resp: 231872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 58.1 | 29.5 | 88.5 |

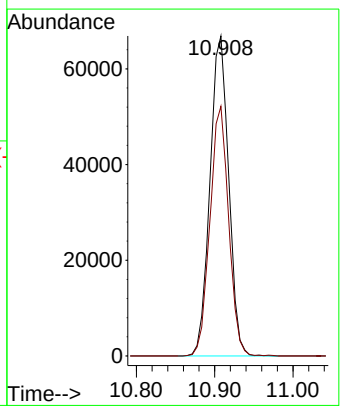


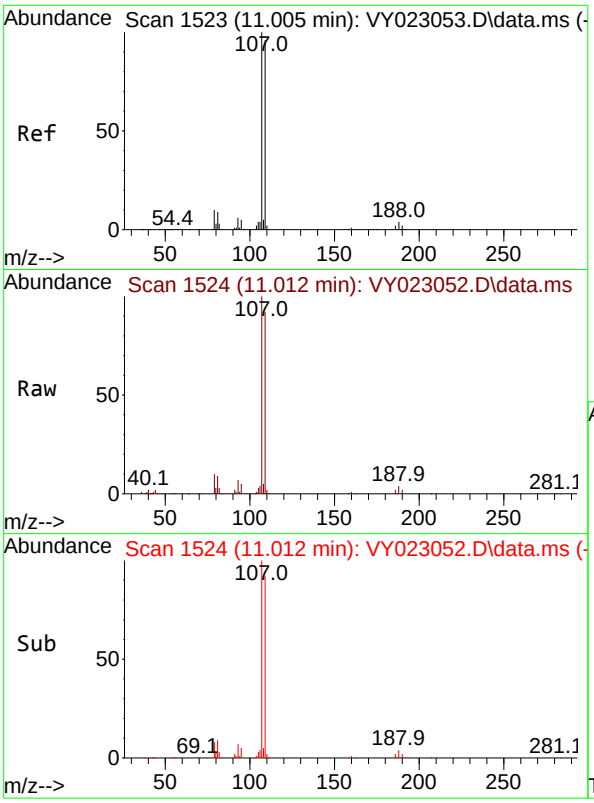




#60
Dibromochloromethane
Concen: 20.424 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:129 Resp: 110810

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.0 | 38.5 | 115.5 |



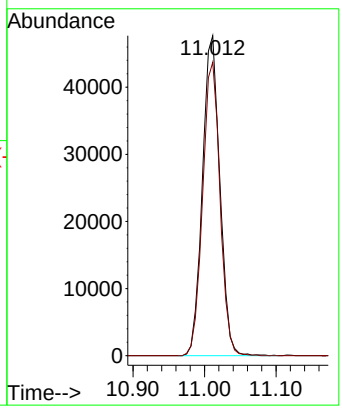


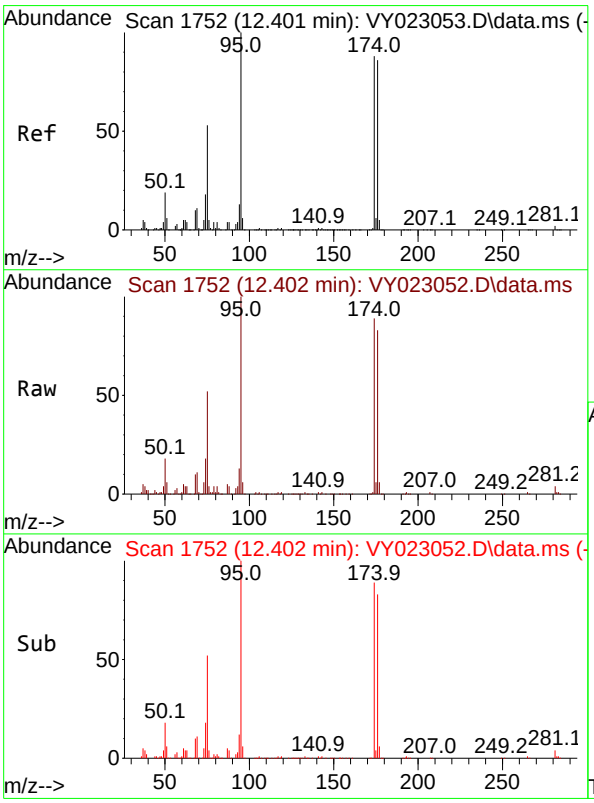

#61
1,2-Dibromoethane
Concen: 20.842 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:107 Resp: 80549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 91.5 | 75.6 | 113.4 |

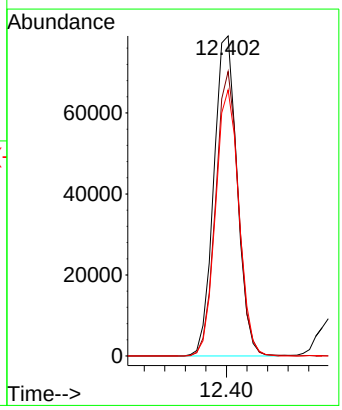


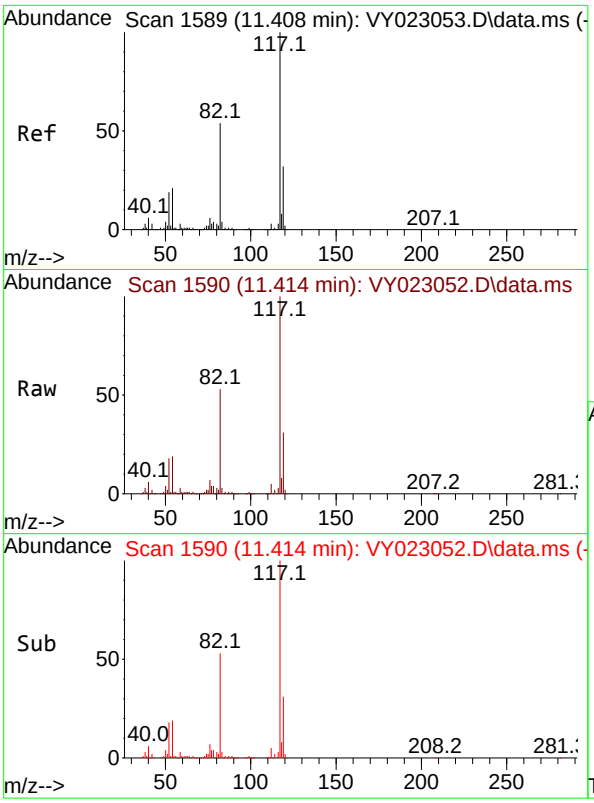




#62
4-Bromofluorobenzene
Concen: 19.503 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 95 Resp: 124467

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 86.7 | 0.0 | 171.6 |
| 176 | 83.3 | 0.0 | 167.6 |



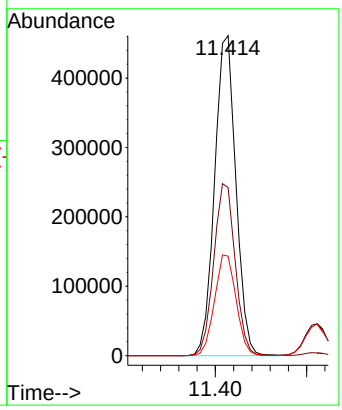


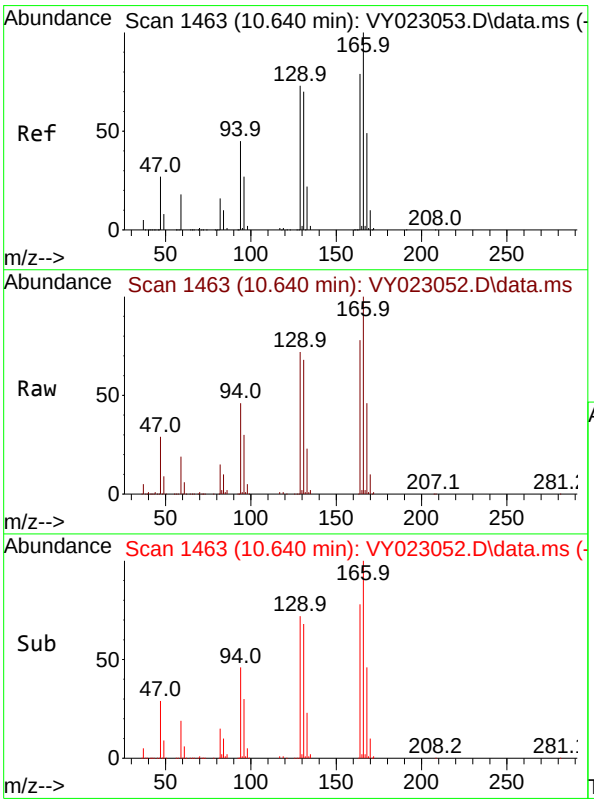

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:117 Resp: 745484

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 52.5 | 43.4 | 65.0 |
| 119 | 31.1 | 25.6 | 38.4 |

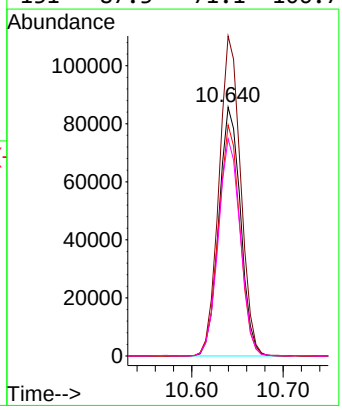


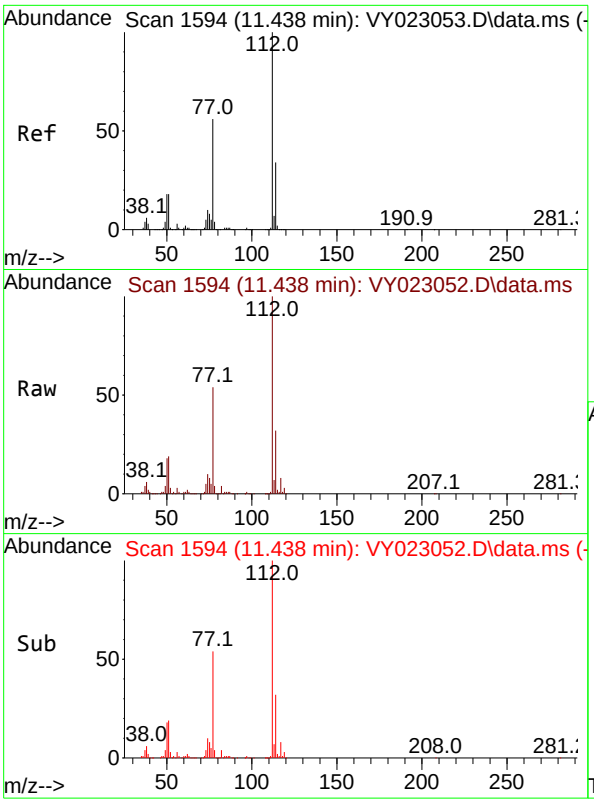




#64
Tetrachloroethene
Concen: 21.273 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:164 Resp: 141609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 128.7 | 101.1 | 151.7 |
| 129 | 92.9 | 74.0 | 111.0 |
| 131 | 87.3 | 71.1 | 106.7 |



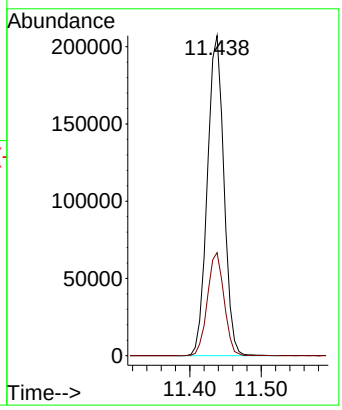


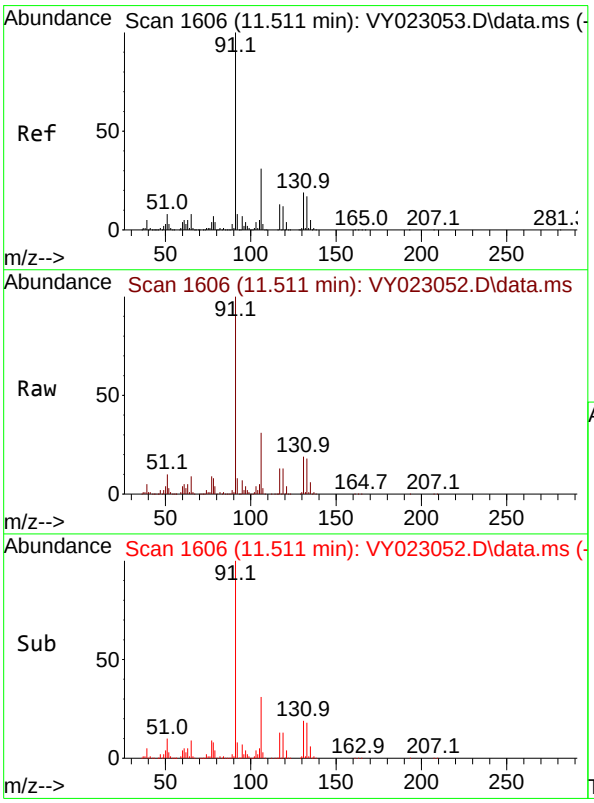

#65
Chlorobenzene
Concen: 20.690 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:112 Resp: 332700

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.2 | 27.0 | 40.4 |

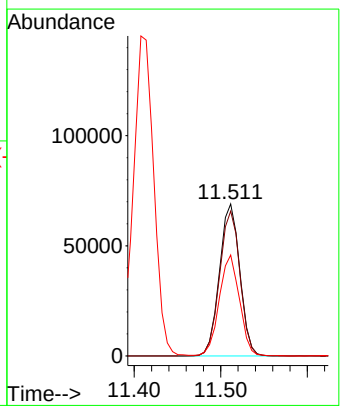


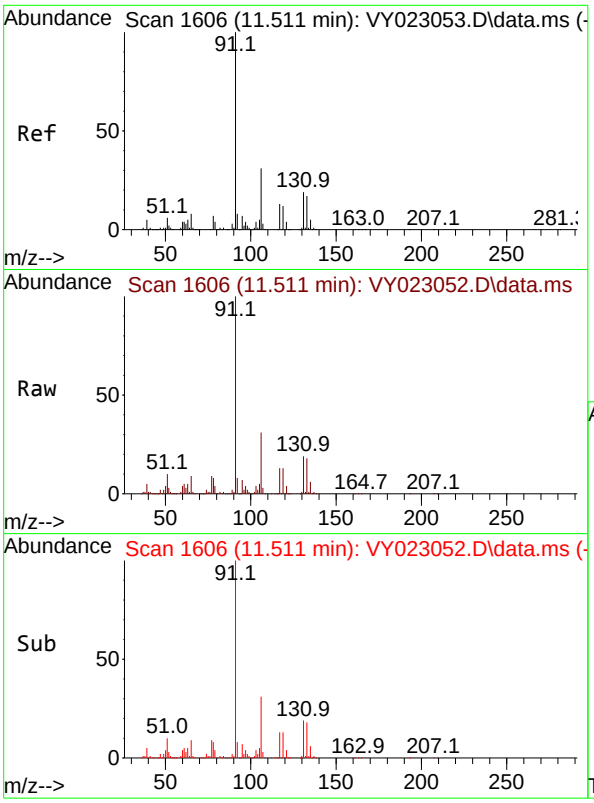




#66
1,1,1,2-Tetrachloroethane
Concen: 20.647 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:131 Resp: 112677

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.8 | 46.9 | 140.6 |
| 119 | 66.2 | 33.2 | 99.6 |



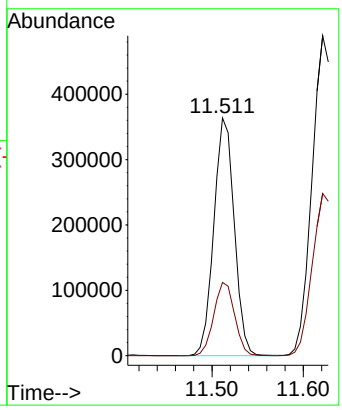


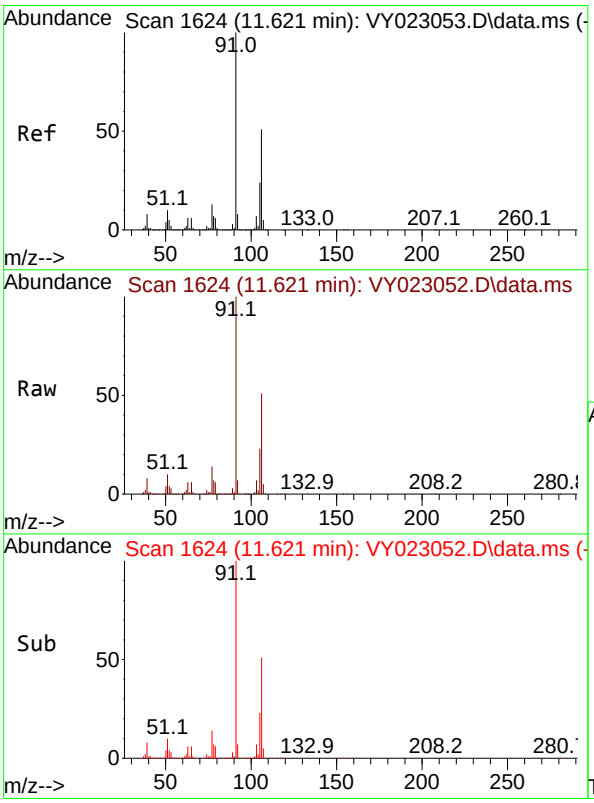

#67
Ethyl Benzene
Concen: 20.412 ug/l
RT: 11.511 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 91 Resp: 564855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.8 | 25.0 | 37.4 |

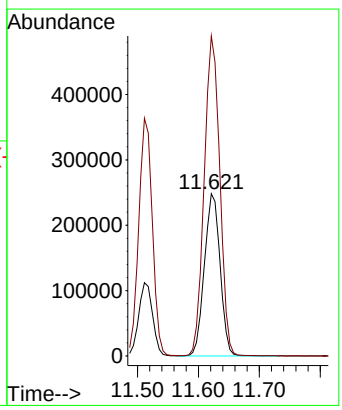


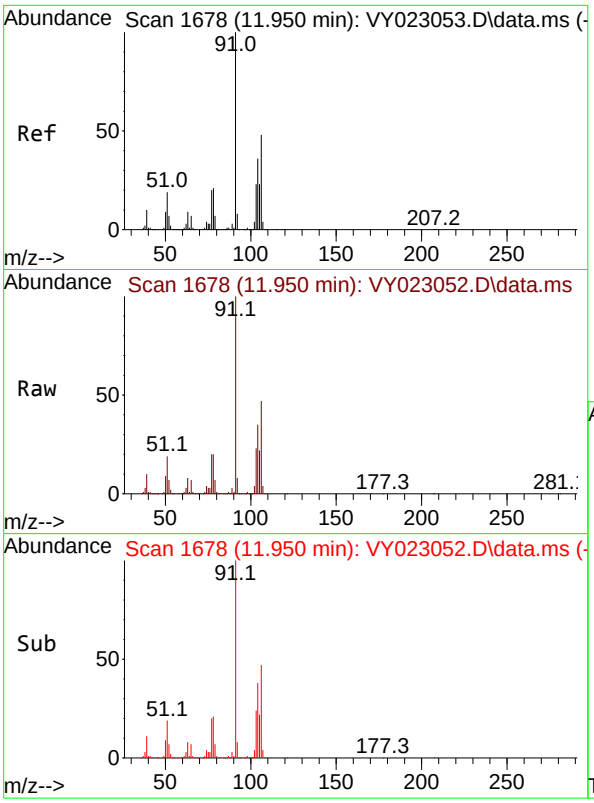




#68
m/p-Xylenes
Concen: 41.115 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:106 Resp: 444361

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 195.9 | 158.6 | 238.0 |



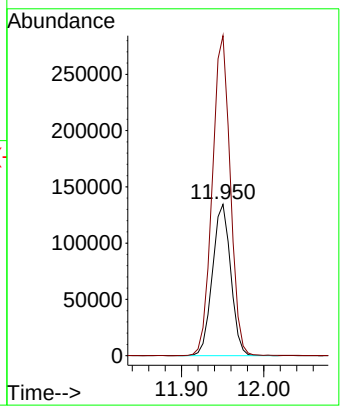


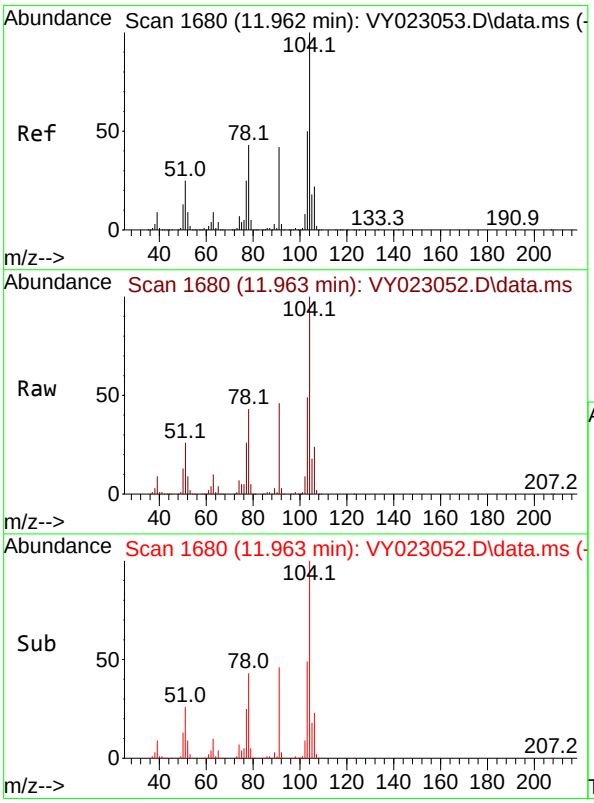

#69
o-Xylene
Concen: 20.513 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:106 Resp: 207639

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 208.2 | 103.2 | 309.4 |

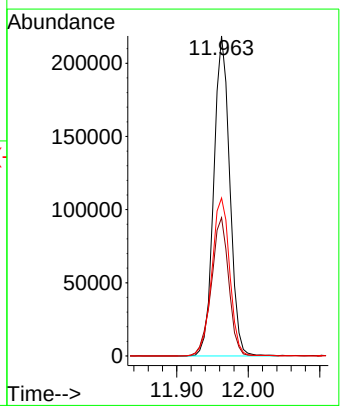


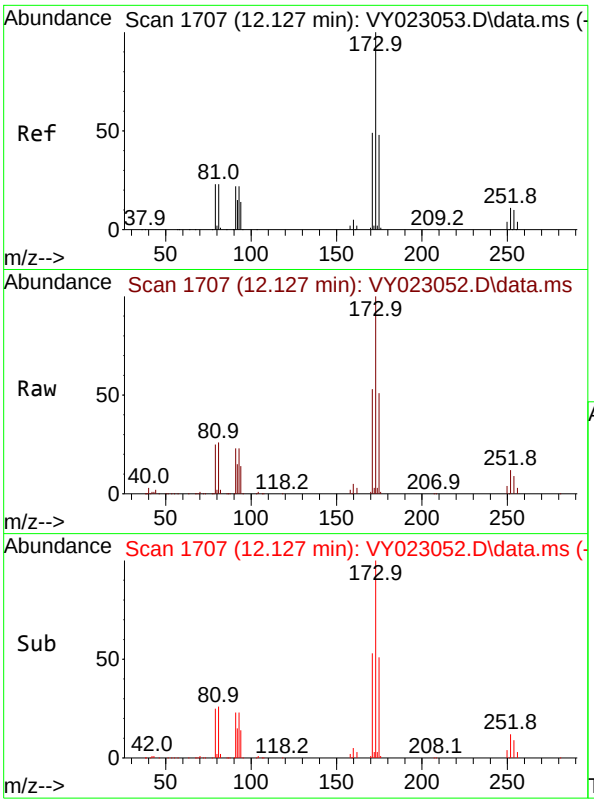




#70
Styrene
Concen: 20.532 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:104 Resp: 339891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 47.0 | 38.5 | 57.7 |
| 103 | 54.9 | 43.7 | 65.5 |



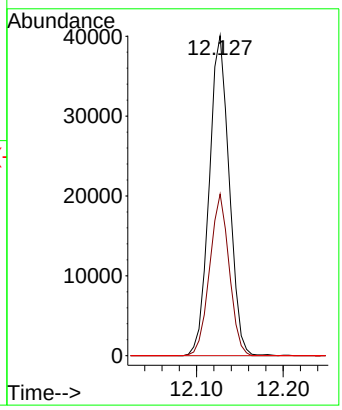


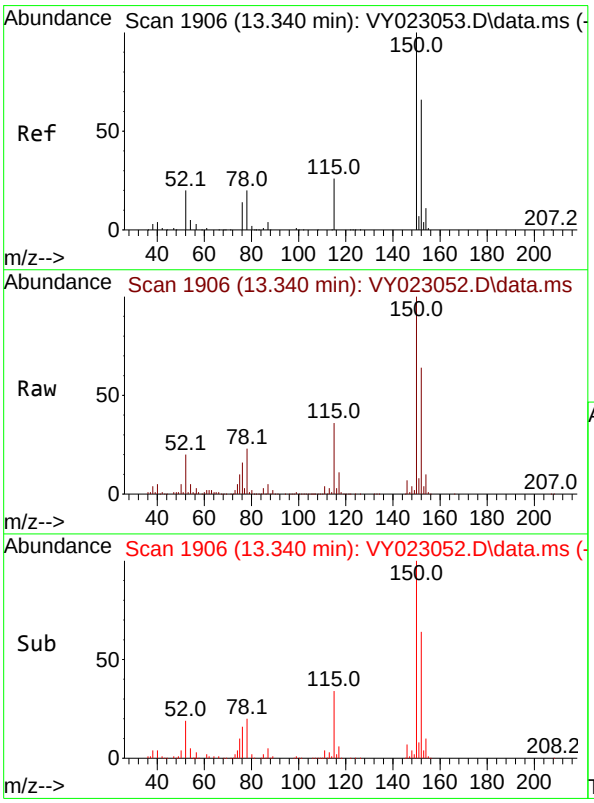

#71
Bromoform
Concen: 20.151 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:173 Resp: 64275

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.2 | 23.9 | 71.7 |
| 254 | 0.0 | 0.1 | 0.1# |

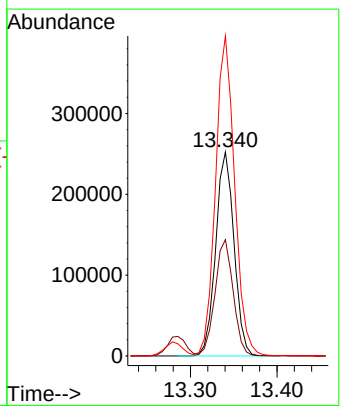


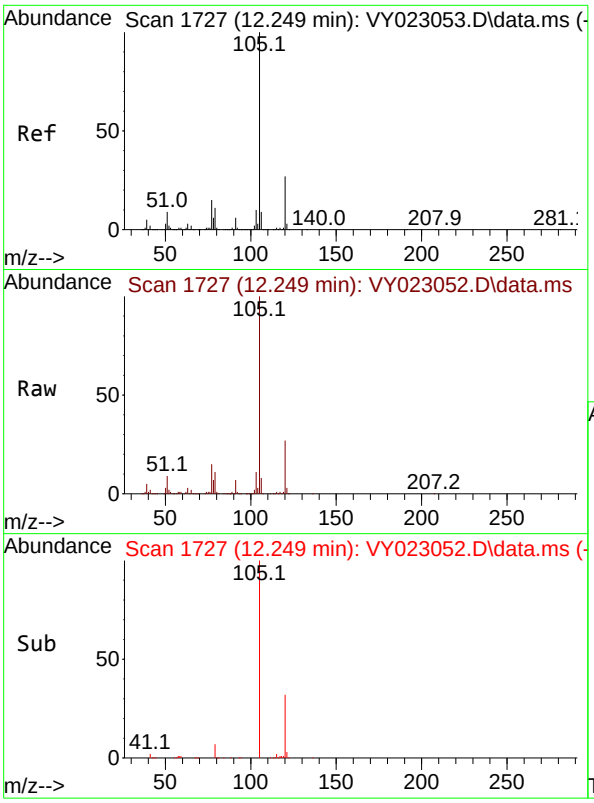




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:152 Resp: 370932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 56.4 | 28.2 | 84.6 |
| 150 | 163.6 | 0.0 | 348.0 |



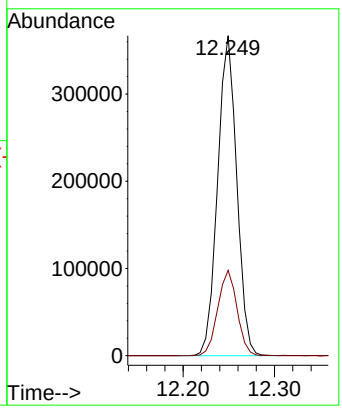


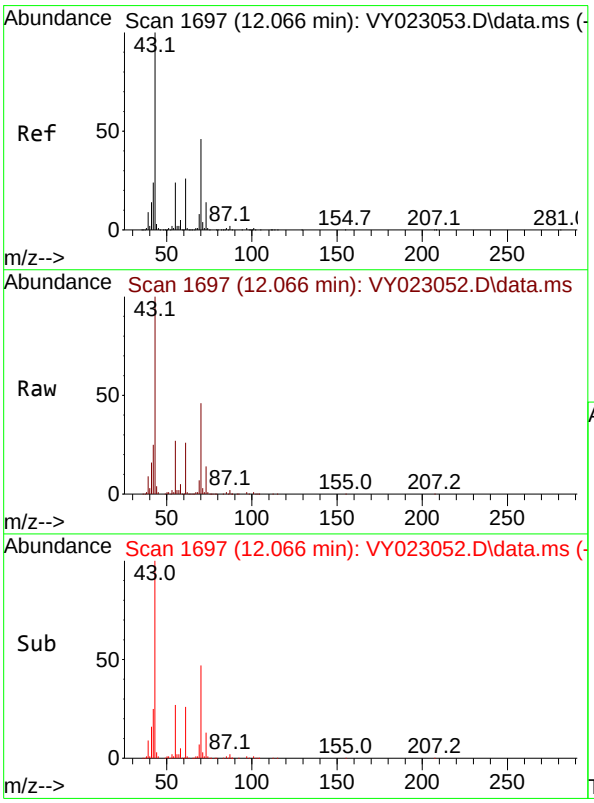

#73
Isopropylbenzene
Concen: 20.413 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:105 Resp: 534421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.8 | 13.4 | 40.2 |

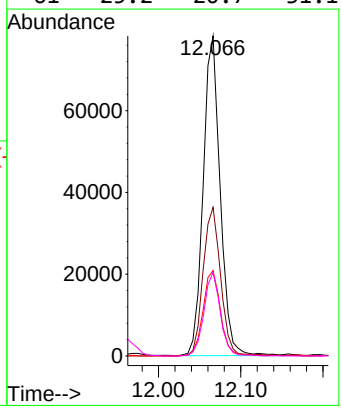


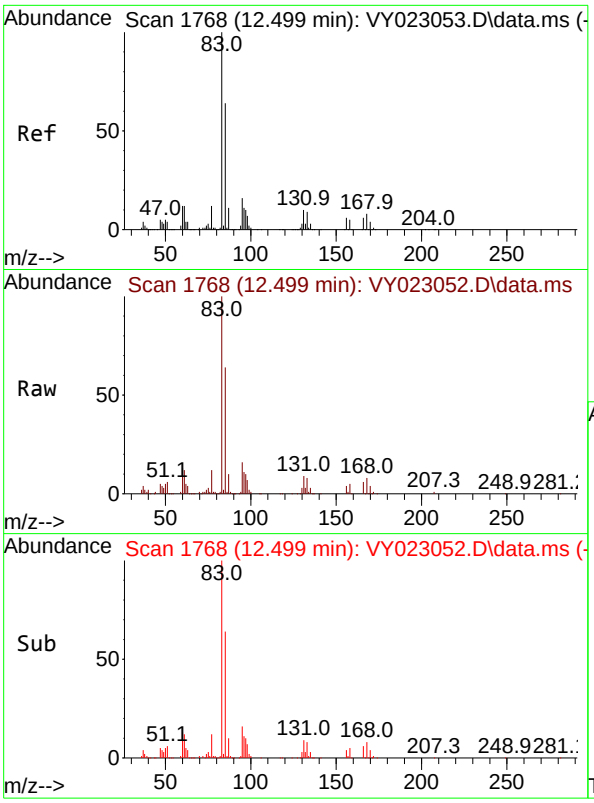




#74
N-amyl acetate
Concen: 20.227 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 43 Resp: 112297

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 48.1 | 37.5 | 56.3 |
| 55 | 27.7 | 20.7 | 31.1 |
| 61 | 25.2 | 20.7 | 31.1 |



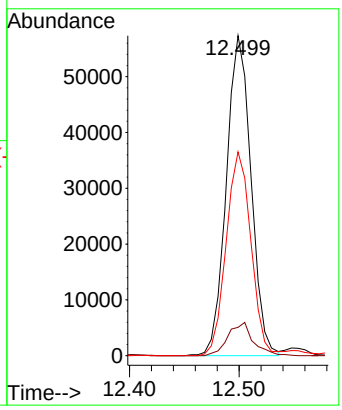


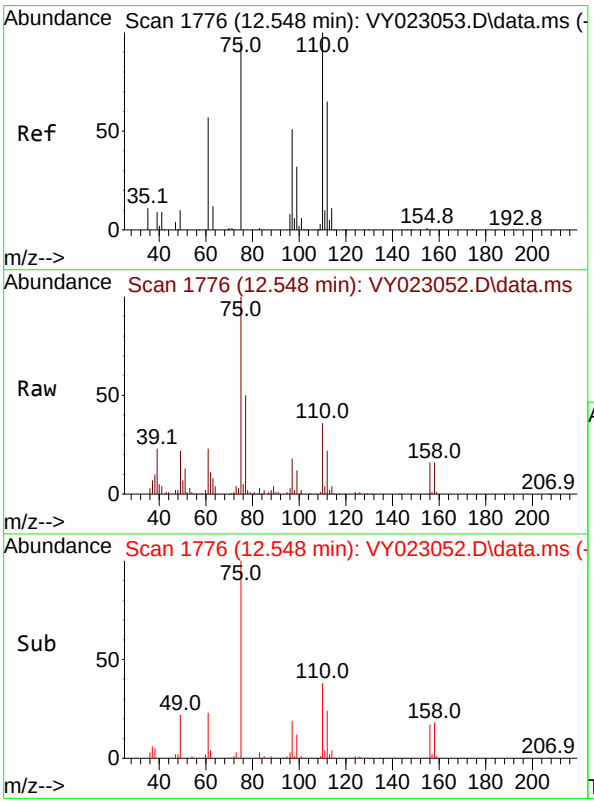

#75
1,1,2,2-Tetrachloroethane
Concen: 20.085 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 83 Resp: 89782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.6 | 5.1 | 15.3 |
| 85 | 63.8 | 31.8 | 95.3 |

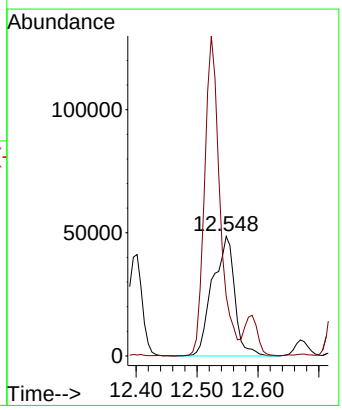


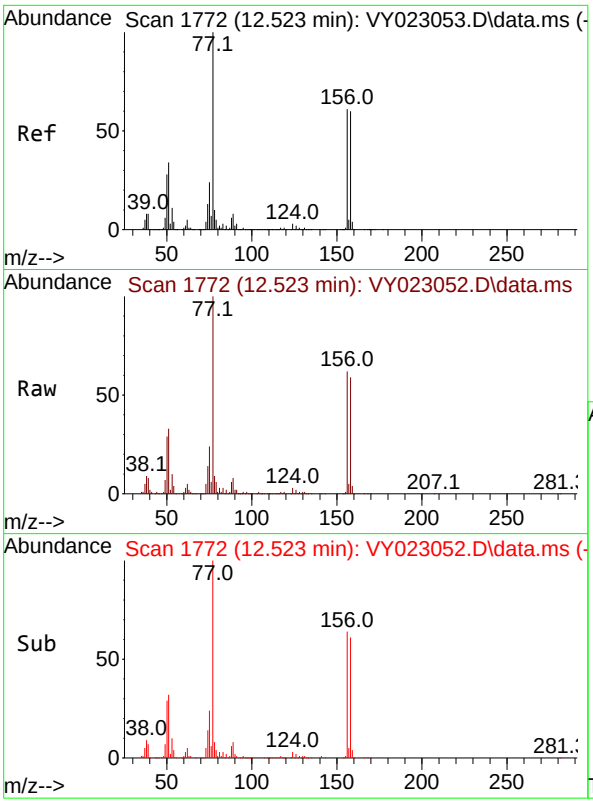




#76
1,2,3-Trichloropropane
Concen: 34.195 ug/l
RT: 12.548 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 75 Resp: 122494

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |



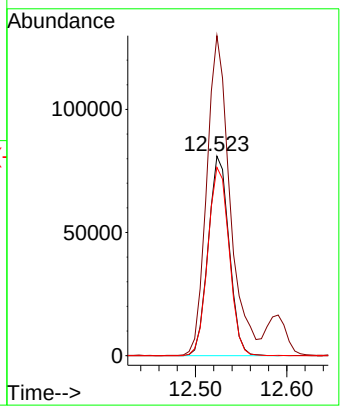


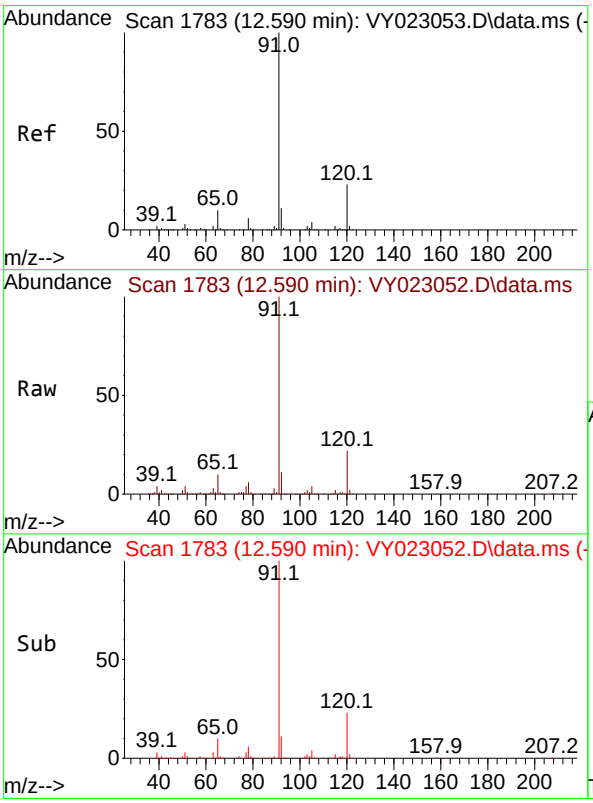

#77
Bromobenzene
Concen: 20.574 ug/l
RT: 12.523 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:156 Resp: 128501

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 177.5 | 88.1 | 264.4 |
| 158 | 96.2 | 48.0 | 144.0 |

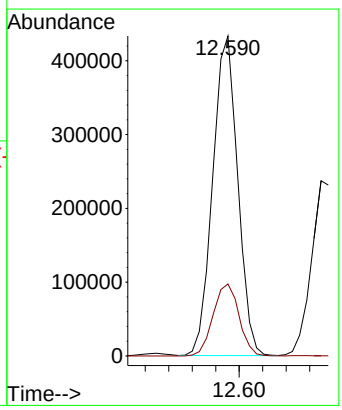


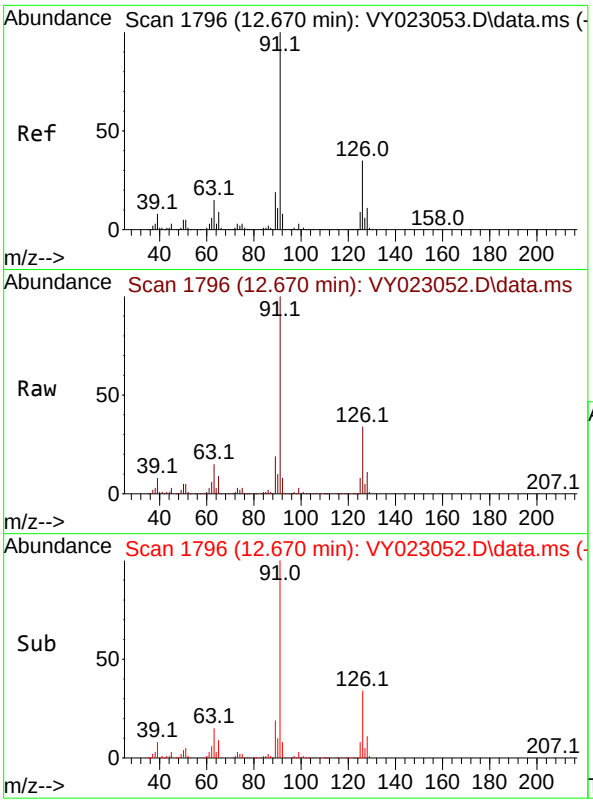




#78
n-propylbenzene
Concen: 20.550 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 91 Resp: 640528

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 23.3 | 11.5 | 34.5 |



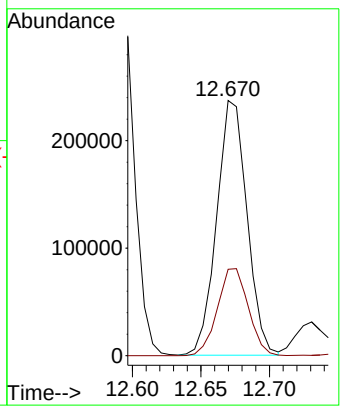


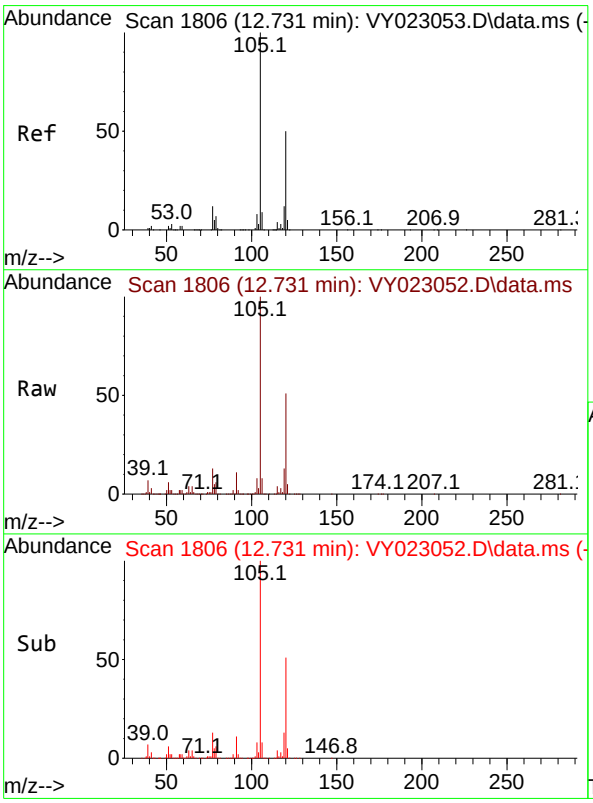

#79
2-Chlorotoluene
Concen: 20.471 ug/l
RT: 12.670 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 91 Resp: 365577

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.8 | 17.4 | 52.3 |

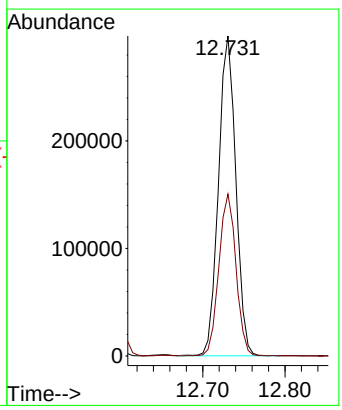


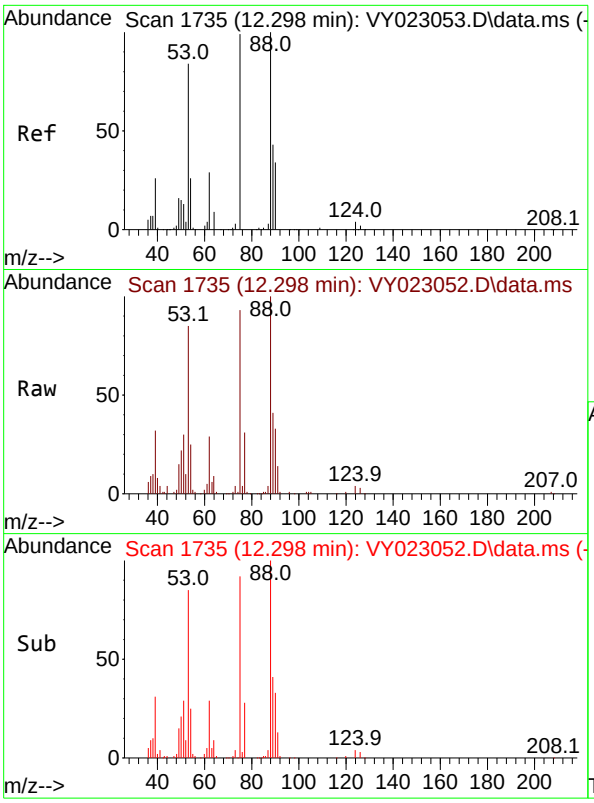




#80
1,3,5-Trimethylbenzene
Concen: 20.563 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:105 Resp: 435074

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 50.2 | 24.8 | 74.4 |



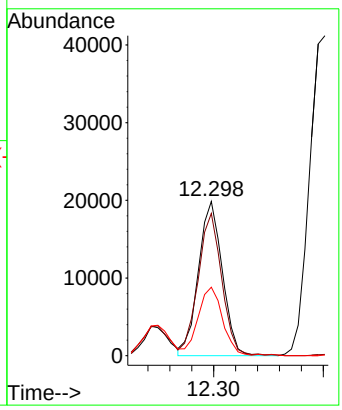


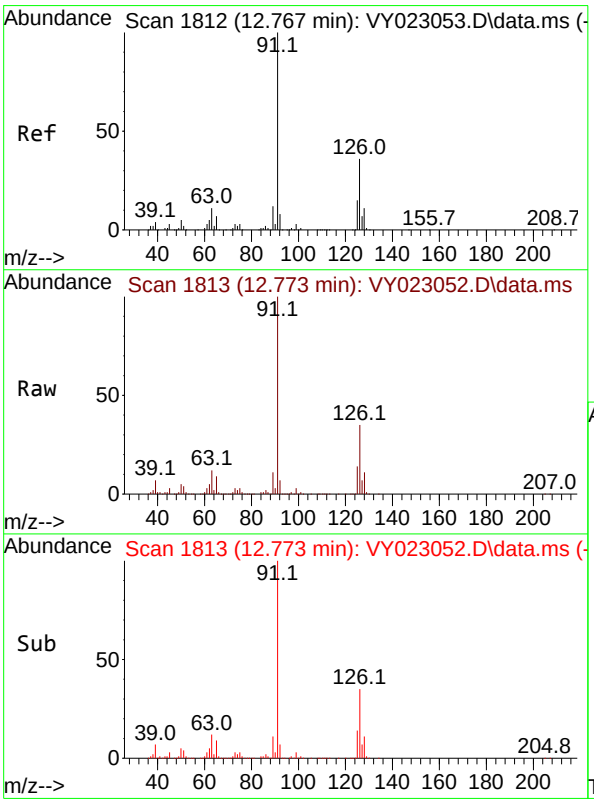

#81
trans-1,4-Dichloro-2-butene
Concen: 20.389 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 75 Resp: 30153

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 91.7 | 70.8 | 106.2 |
| 89 | 46.2 | 38.1 | 57.1 |

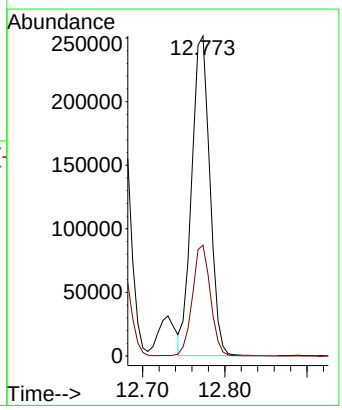


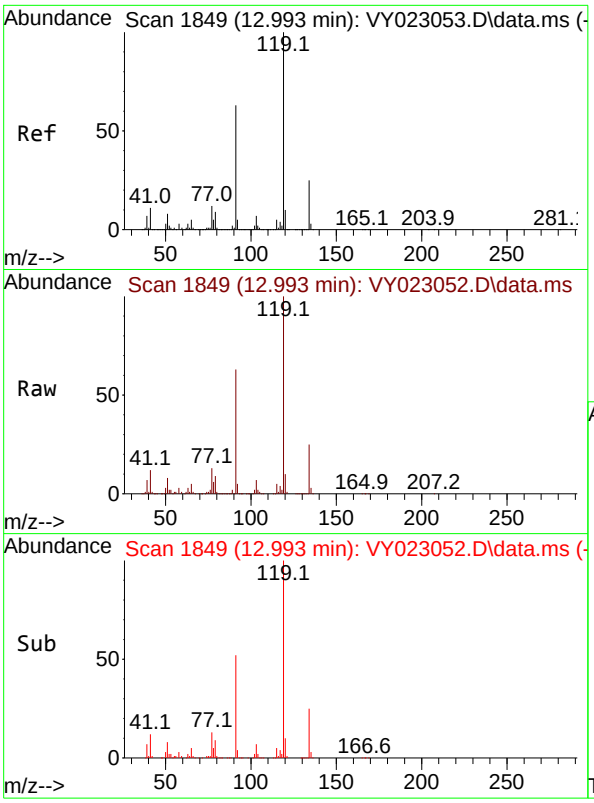




#82
4-Chlorotoluene
Concen: 20.822 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 91 Resp: 385755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.3 | 17.3 | 52.0 |



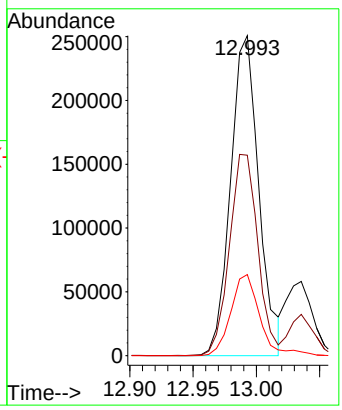


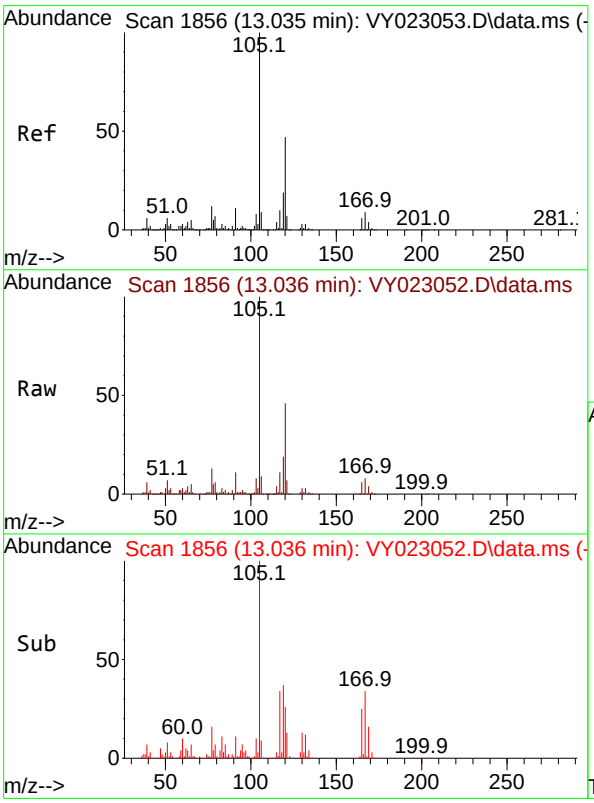

#83
tert-Butylbenzene
Concen: 20.389 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:119 Resp: 389621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 63.4 | 31.6 | 94.8 |
| 134 | 26.1 | 12.9 | 38.7 |

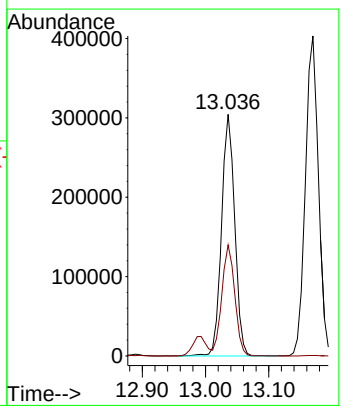


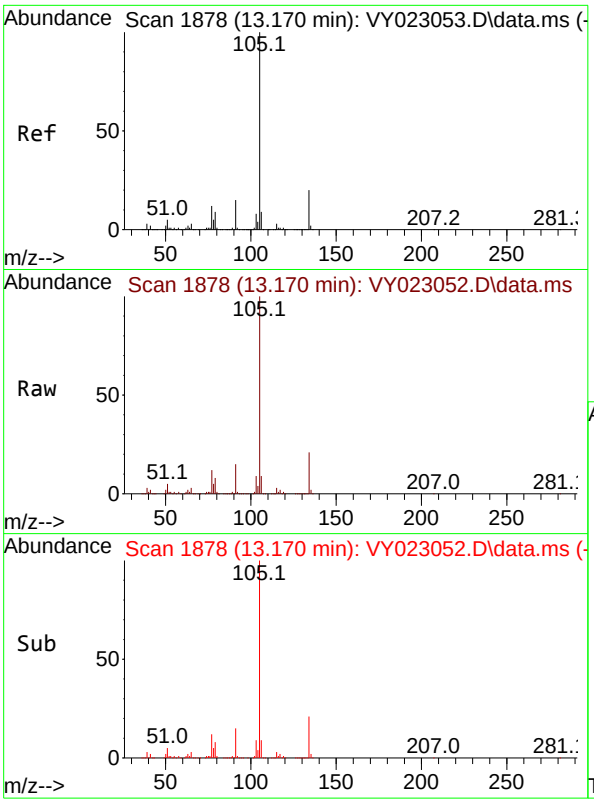




#84
1,2,4-Trimethylbenzene
Concen: 20.814 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:105 Resp: 438392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.0 | 23.0 | 69.0 |



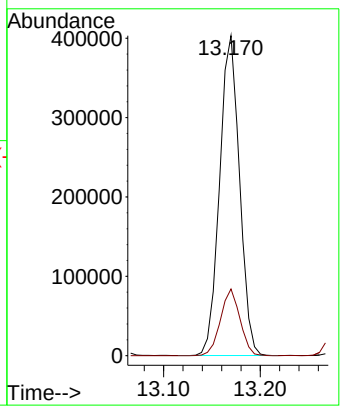


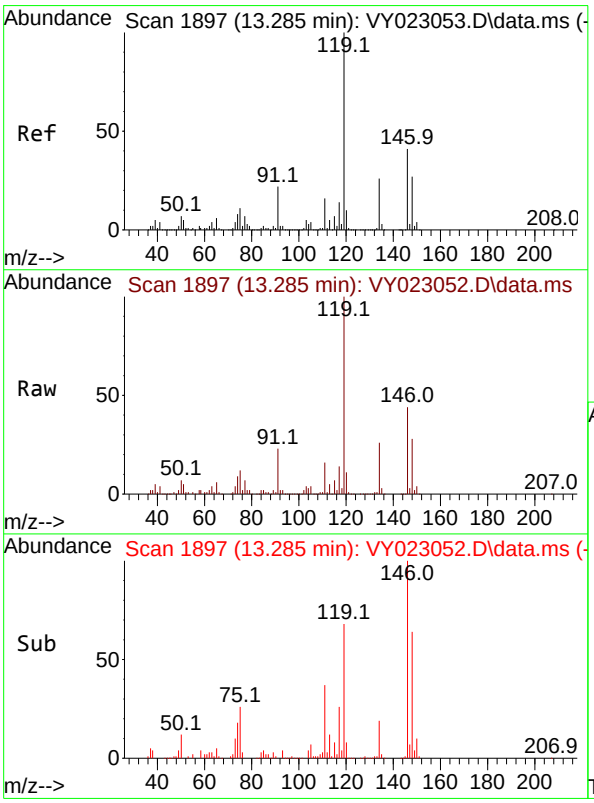

#85
sec-Butylbenzene
Concen: 20.512 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:105 Resp: 575804

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.3 | 10.2 | 30.4 |

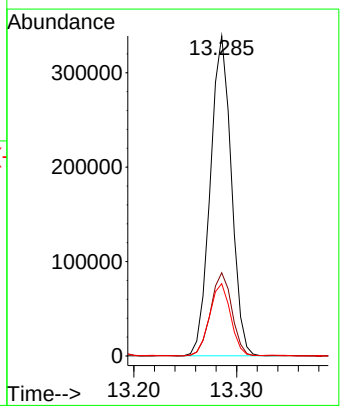


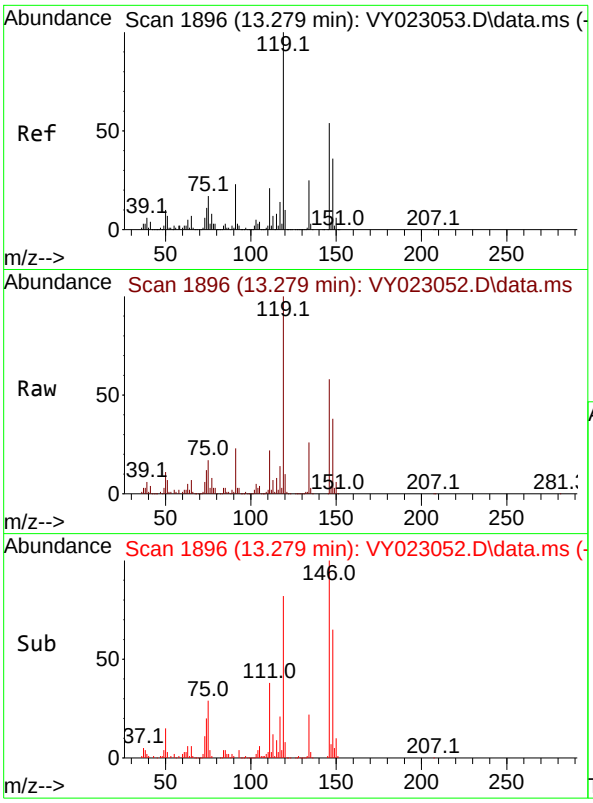




#86
p-Isopropyltoluene
Concen: 20.640 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:119 Resp: 480937

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.3 | 13.2 | 39.6 |
| 91 | 22.6 | 11.3 | 33.8 |



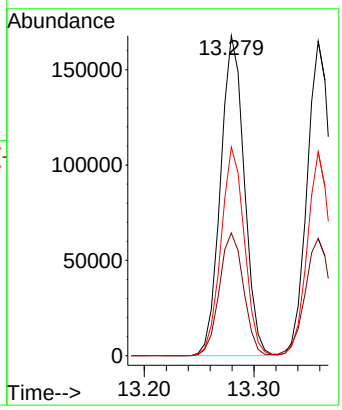


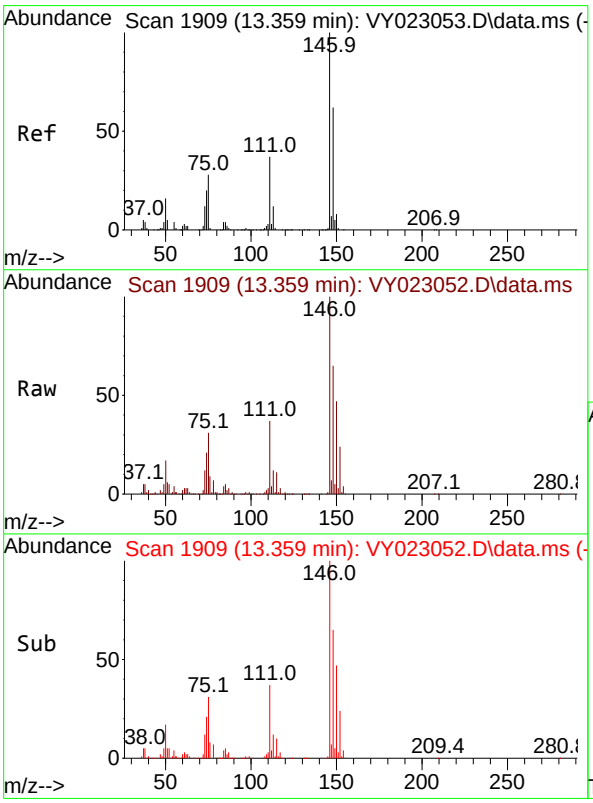

#87
1,3-Dichlorobenzene
Concen: 20.497 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:146 Resp: 252452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.1 | 19.6 | 58.7 |
| 148 | 64.3 | 32.5 | 97.5 |

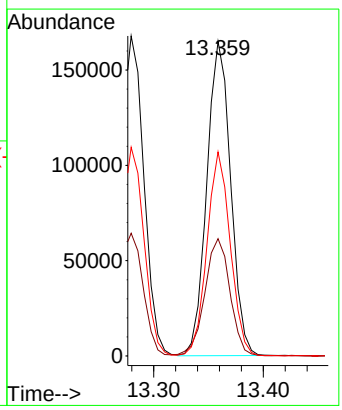


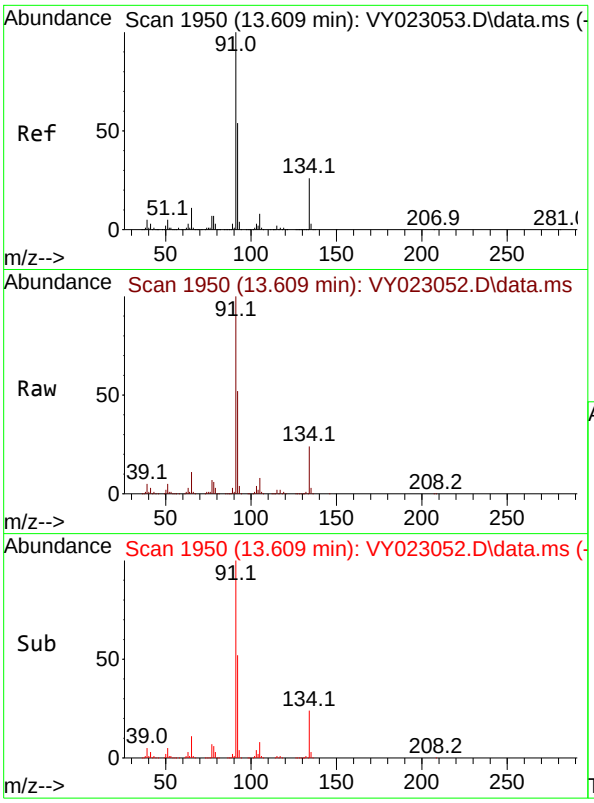




#88
1,4-Dichlorobenzene
Concen: 20.403 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:146 Resp: 249280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.3 | 19.1 | 57.1 |
| 148 | 63.5 | 31.6 | 94.7 |



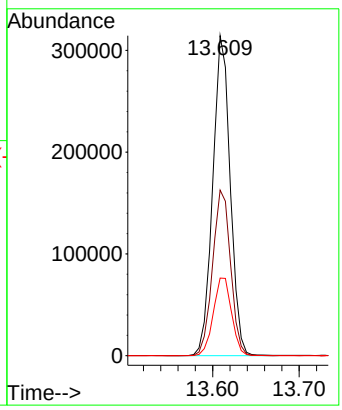


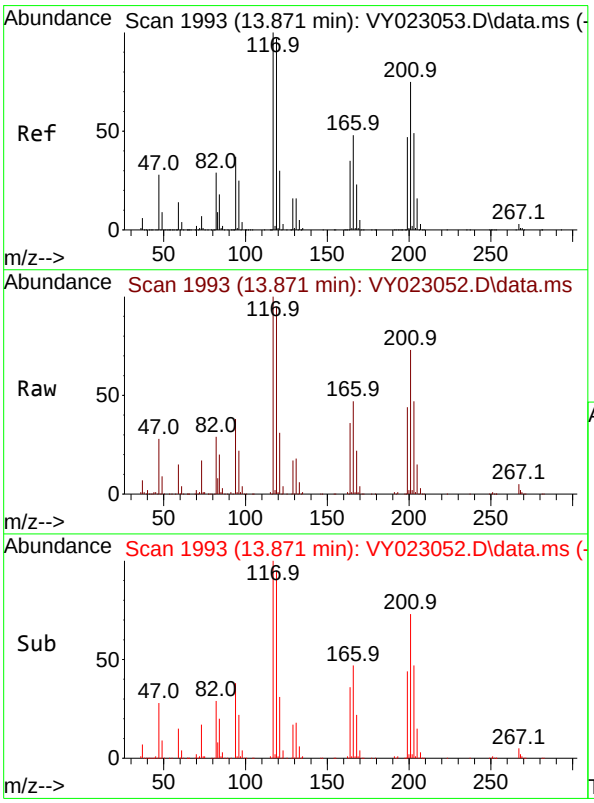

#89
n-Butylbenzene
Concen: 20.605 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 91 Resp: 440963

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.4 | 26.9 | 80.7 |
| 134 | 25.4 | 13.2 | 39.5 |

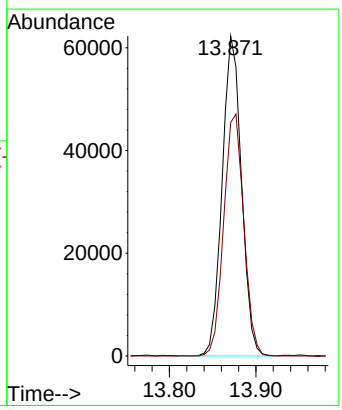


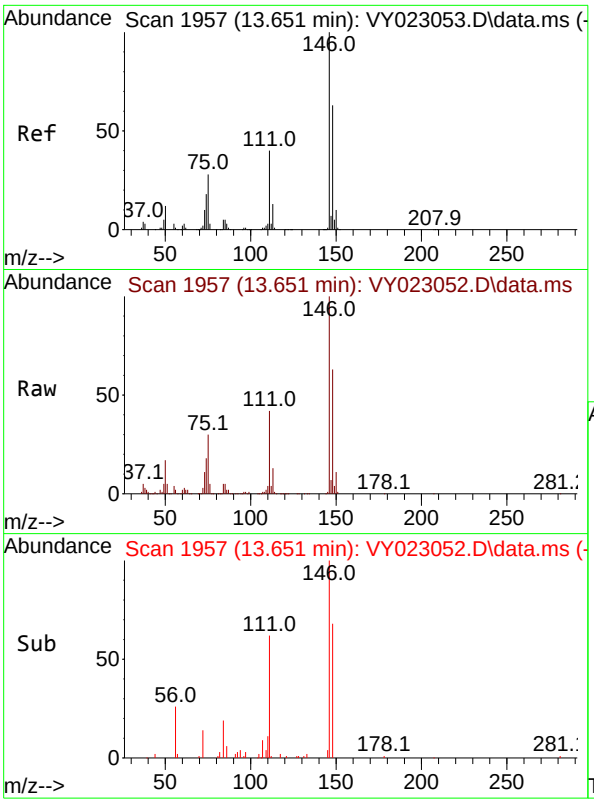




#90
Hexachloroethane
Concen: 20.226 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:117 Resp: 96478

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 78.5 | 38.4 | 115.1 |



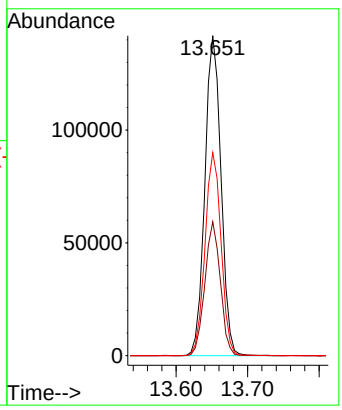


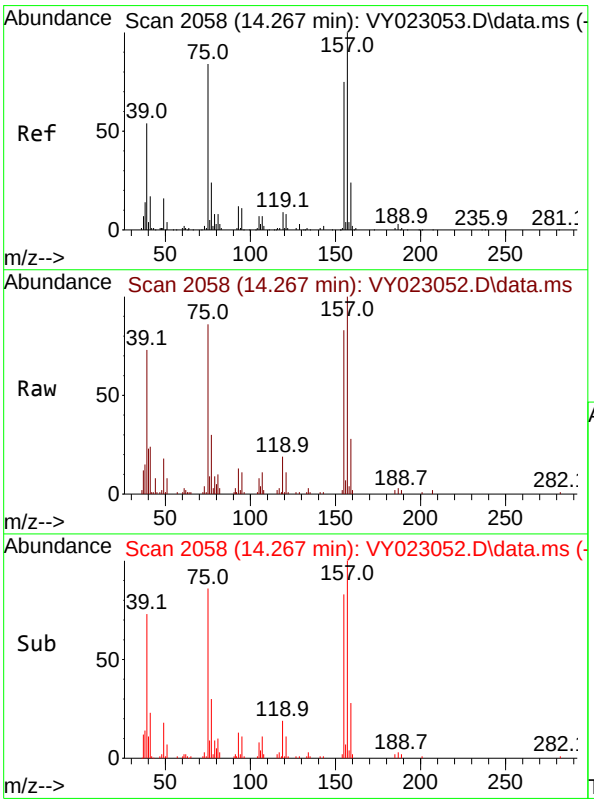

#91
1,2-Dichlorobenzene
Concen: 20.552 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:146 Resp: 222000

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.2 | 20.3 | 60.8 |
| 148 | 63.2 | 32.2 | 96.6 |

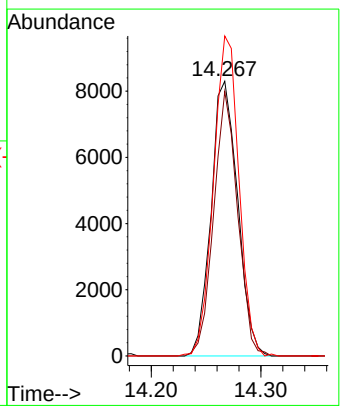


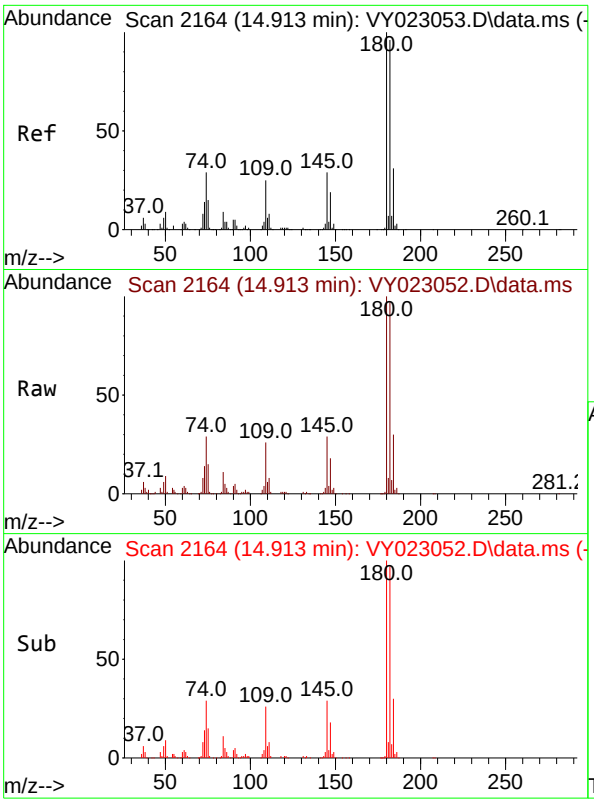




#92
1,2-Dibromo-3-Chloropropane
Concen: 20.076 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion: 75 Resp: 13973

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 86.7 | 43.9 | 131.6 |
| 157 | 111.6 | 57.2 | 171.6 |



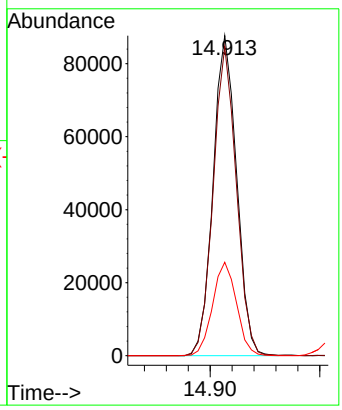


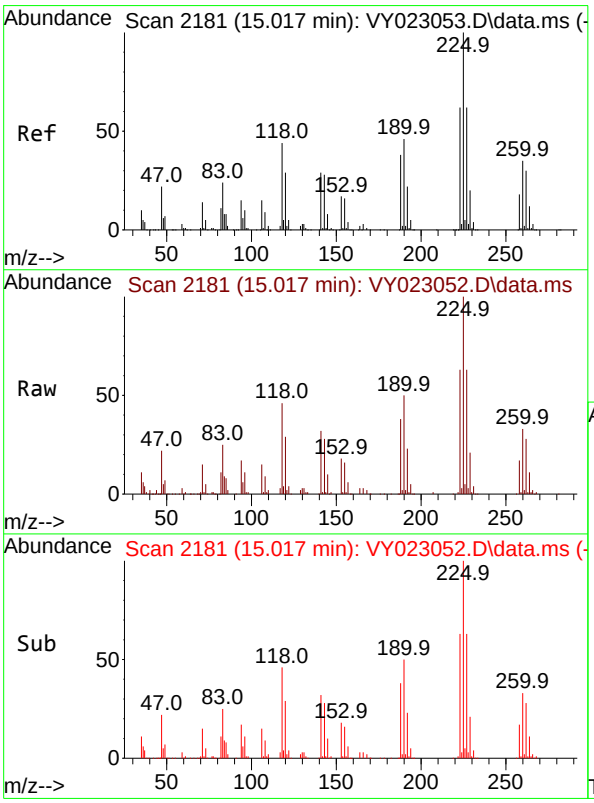

#93
1,2,4-Trichlorobenzene
Concen: 20.464 ug/l
RT: 14.913 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:180 Resp: 130718

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.1 | 46.8 | 140.4 |
| 145 | 29.6 | 14.4 | 43.4 |

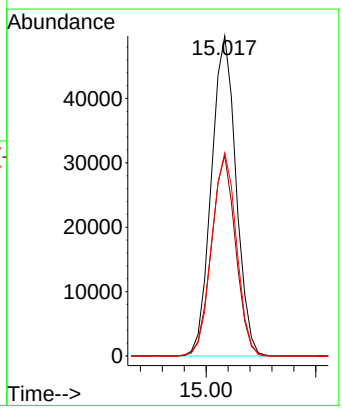


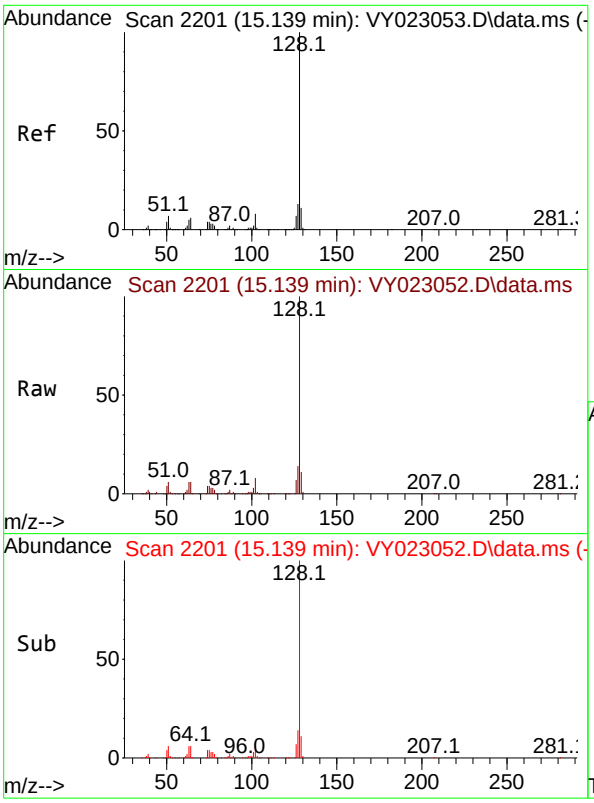




#94
Hexachlorobutadiene
Concen: 20.650 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:225 Resp: 77511

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 61.5 | 31.3 | 93.8 |
| 227 | 63.6 | 31.5 | 94.5 |



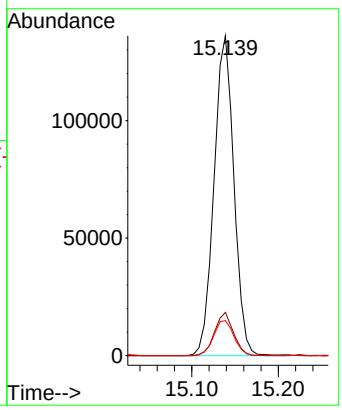


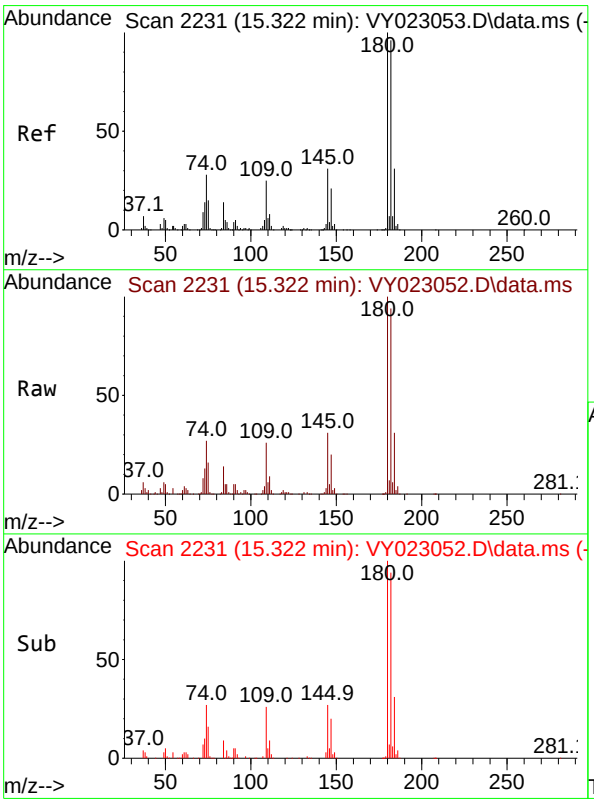

#95
Naphthalene
Concen: 19.915 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:128 Resp: 216923

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.9 | 10.4 | 15.6 |
| 129 | 11.4 | 9.0 | 13.4 |

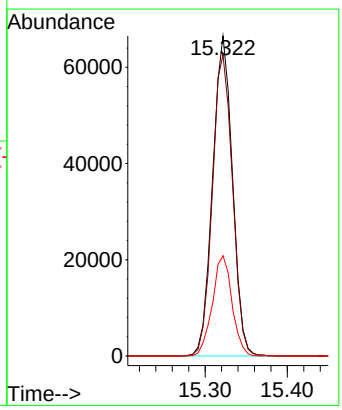



#96
1,2,3-Trichlorobenzene
Concen: 20.258 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023052.D
Acq: 12 Aug 2025 15:40

Tgt Ion:180 Resp: 111506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.3 | 47.9 | 143.7 |
| 145 | 31.0 | 15.9 | 47.7 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023053.D
Acq On : 12 Aug 2025 16:02
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Quant Time: Aug 13 01:53:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 539282 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.609 | 114 | 856556 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.408 | 117 | 751969 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 377839 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.055 | 65 | 249044 | 48.455 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 96.900% | | | |
| 35) Dibromofluoromethane | 7.628 | 113 | 251193 | 49.010 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 98.020% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 979082 | 48.899 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 97.800% | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 316770 | 49.194 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 98.380% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.861 | 85 | 187863 | 42.677 | ug/l | 100 |
| 3) Chloromethane | 2.068 | 50 | 327481 | 45.932 | ug/l | 100 |
| 4) Vinyl Chloride | 2.196 | 62 | 414609 | 47.044 | ug/l | 100 |
| 5) Bromomethane | 2.592 | 94 | 291336 | 44.263 | ug/l | 100 |
| 6) Chloroethane | 2.726 | 64 | 277698 | 47.394 | ug/l | 100 |
| 7) Trichlorofluoromethane | 3.049 | 101 | 505137 | 47.136 | ug/l | 100 |
| 8) Diethyl Ether | 3.446 | 74 | 135373 | 47.747 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 3.805 | 101 | 249063 | 47.109 | ug/l | 100 |
| 10) Methyl Iodide | 3.994 | 142 | 296087 | 51.899 | ug/l | 100 |
| 11) Tert butyl alcohol | 4.860 | 59 | 85712 | 243.383 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 3.781 | 96 | 249492 | 48.009 | ug/l | 100 |
| 13) Acrolein | 3.647 | 56 | 121185 | 234.966 | ug/l | 100 |
| 14) Allyl chloride | 4.378 | 41 | 369720 | 48.350 | ug/l | 100 |
| 15) Acrylonitrile | 5.049 | 53 | 285675 | 247.839 | ug/l | 100 |
| 16) Acetone | 3.860 | 43 | 278510 | 250.122 | ug/l | 100 |
| 17) Carbon Disulfide | 4.098 | 76 | 804119 | 47.456 | ug/l | 100 |
| 18) Methyl Acetate | 4.378 | 43 | 173642 | 52.403 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.110 | 73 | 666514 | 49.495 | ug/l | 100 |
| 20) Methylene Chloride | 4.604 | 84 | 275004 | 47.415 | ug/l | 100 |
| 21) trans-1,2-Dichloroethene | 5.104 | 96 | 282272 | 48.334 | ug/l | 100 |
| 22) Diisopropyl ether | 6.018 | 45 | 815359 | 49.070 | ug/l | 100 |
| 23) Vinyl Acetate | 5.951 | 43 | 2268046 | 246.849 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.909 | 63 | 495073 | 48.732 | ug/l | 100 |
| 25) 2-Butanone | 6.884 | 43 | 382711 | 252.715 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 425773 | 48.571 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 6.884 | 96 | 327272 | 48.474 | ug/l | 100 |
| 28) Bromochloromethane | 7.244 | 49 | 196667 | 48.795 | ug/l | 100 |
| 29) Tetrahydrofuran | 7.256 | 42 | 235169 | 250.523 | ug/l | 100 |
| 30) Chloroform | 7.415 | 83 | 508641 | 48.547 | ug/l | 100 |
| 31) Cyclohexane | 7.695 | 56 | 440266 | 45.989 | ug/l | 100 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 451521 | 48.569 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 7.829 | 75 | 371204 | 48.734 | ug/l | 100 |
| 37) Ethyl Acetate | 6.982 | 43 | 160980 | 50.311 | ug/l | 100 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 399463 | 48.285 | ug/l | 100 |
| 39) Methylcyclohexane | 9.103 | 83 | 484691 | 48.321 | ug/l | 100 |
| 40) Benzene | 8.073 | 78 | 1142910 | 48.683 | ug/l | 100 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023053.D
Acq On : 12 Aug 2025 16:02
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Quant Time: Aug 13 01:53:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.219 | 41 | 94123 | 50.916 | ug/l | | 100 |
| 42) 1,2-Dichloroethane | 8.152 | 62 | 296907 | 48.627 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.195 | 43 | 319600 | 49.419 | ug/l | | 100 |
| 44) Trichloroethene | 8.859 | 130 | 292421 | 48.199 | ug/l | | 100 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 264354 | 48.938 | ug/l | | 100 |
| 46) Dibromomethane | 9.225 | 93 | 152822 | 49.291 | ug/l | | 100 |
| 47) Bromodichloromethane | 9.420 | 83 | 393523 | 49.327 | ug/l | | 100 |
| 48) Methyl methacrylate | 9.213 | 41 | 160792 | 51.958 | ug/l | | 100 |
| 49) 1,4-Dioxane | 9.225 | 88 | 36249 | 997.124 | ug/l | | 100 |
| 51) 4-Methyl-2-Pentanone | 9.993 | 43 | 853025 | 255.710 | ug/l | | 100 |
| 52) Toluene | 10.164 | 92 | 735326 | 49.315 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 359698 | 49.790 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 424834 | 49.731 | ug/l | | 100 |
| 55) 1,1,2-Trichloroethane | 10.566 | 97 | 204368 | 49.261 | ug/l | | 100 |
| 56) Ethyl methacrylate | 10.432 | 69 | 273801 | 51.576 | ug/l | | 100 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 346510 | 49.249 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 663351 | 264.906 | ug/l | | 100 |
| 59) 2-Hexanone | 10.755 | 43 | 584223 | 257.194 | ug/l | | 100 |
| 60) Dibromochloromethane | 10.908 | 129 | 272171 | 49.719 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 11.005 | 107 | 193398 | 49.598 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.640 | 164 | 327271 | 48.740 | ug/l | | 100 |
| 65) Chlorobenzene | 11.438 | 112 | 793490 | 48.920 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.511 | 131 | 271839 | 49.381 | ug/l | | 100 |
| 67) Ethyl Benzene | 11.511 | 91 | 1397704 | 50.073 | ug/l | | 100 |
| 68) m/p-Xylenes | 11.621 | 106 | 1080401 | 99.103 | ug/l | | 100 |
| 69) o-Xylene | 11.950 | 106 | 516002 | 50.536 | ug/l | | 100 |
| 70) Styrene | 11.962 | 104 | 844409 | 50.569 | ug/l | | 100 |
| 71) Bromoform | 12.127 | 173 | 160769 | 49.969 | ug/l | # | 100 |
| 73) Isopropylbenzene | 12.249 | 105 | 1324313 | 49.660 | ug/l | | 100 |
| 74) N-amyl acetate | 12.066 | 43 | 289914 | 51.264 | ug/l | | 100 |
| 75) 1,1,2,2-Tetrachloroethane | 12.499 | 83 | 220853 | 48.503 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.548 | 75 | 303093 | 83.064 | ug/l | # | 100 |
| 77) Bromobenzene | 12.523 | 156 | 312706 | 49.152 | ug/l | | 100 |
| 78) n-propylbenzene | 12.590 | 91 | 1593368 | 50.186 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.670 | 91 | 899967 | 49.473 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.731 | 105 | 1080333 | 50.126 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.298 | 75 | 74567 | 49.500 | ug/l | | 100 |
| 82) 4-Chlorotoluene | 12.767 | 91 | 930329 | 49.299 | ug/l | | 100 |
| 83) tert-Butylbenzene | 12.993 | 119 | 978031 | 50.244 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.035 | 105 | 1071926 | 49.963 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.170 | 105 | 1425553 | 49.854 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.285 | 119 | 1196645 | 50.417 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.279 | 146 | 608249 | 48.481 | ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 13.359 | 146 | 605079 | 48.618 | ug/l | | 100 |
| 89) n-Butylbenzene | 13.609 | 91 | 1099864 | 50.454 | ug/l | | 100 |
| 90) Hexachloroethane | 13.871 | 117 | 238005 | 48.984 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 13.651 | 146 | 536637 | 48.772 | ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.267 | 75 | 35867 | 50.592 | ug/l | | 100 |
| 93) 1,2,4-Trichlorobenzene | 14.913 | 180 | 320080 | 49.192 | ug/l | | 100 |
| 94) Hexachlorobutadiene | 15.017 | 225 | 185604 | 48.543 | ug/l | | 100 |
| 95) Naphthalene | 15.139 | 128 | 562363 | 50.685 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.322 | 180 | 272154 | 48.540 | ug/l | | 100 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023053.D
Acq On : 12 Aug 2025 16:02
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Quant Time: Aug 13 01:53:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

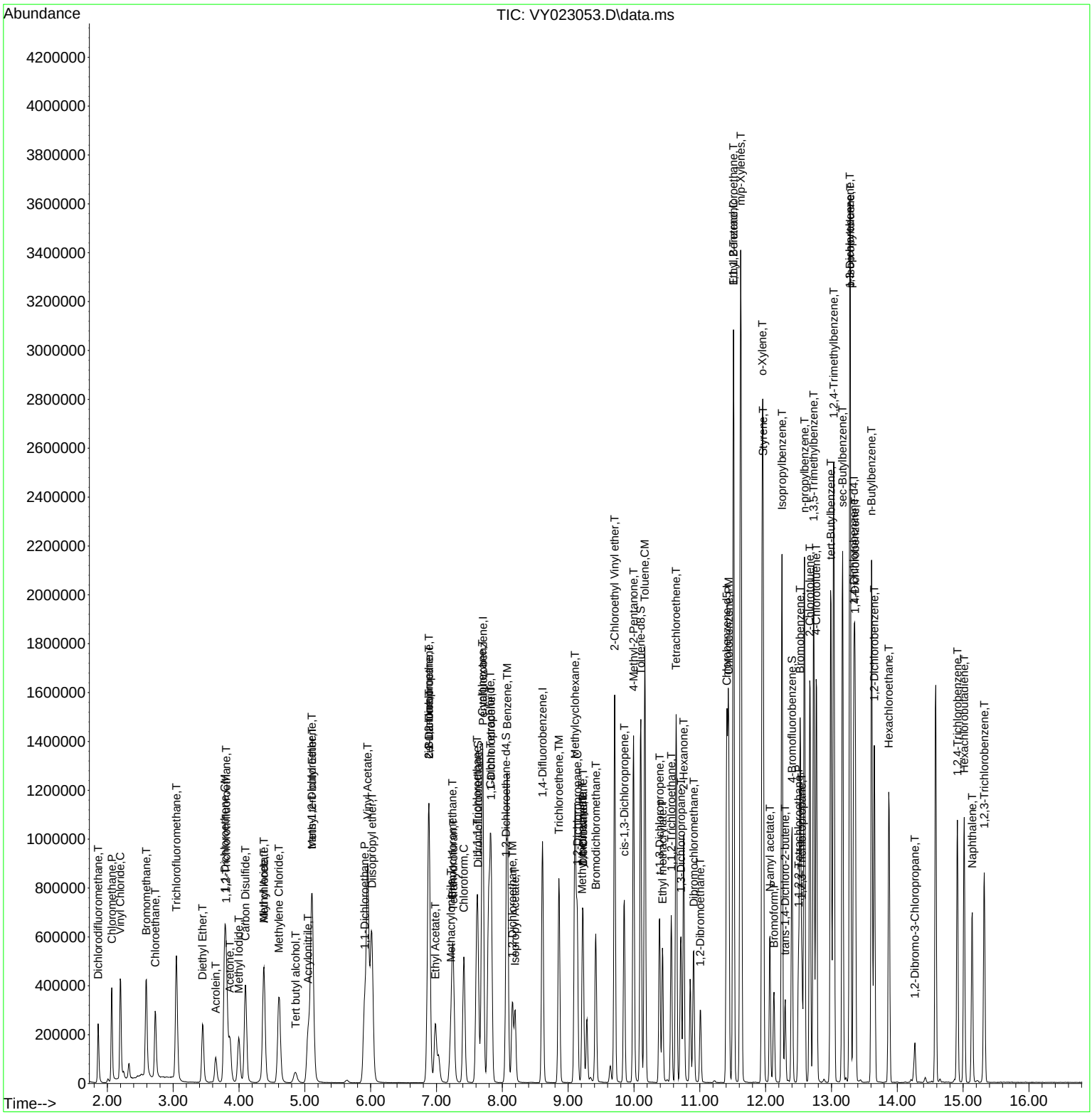
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

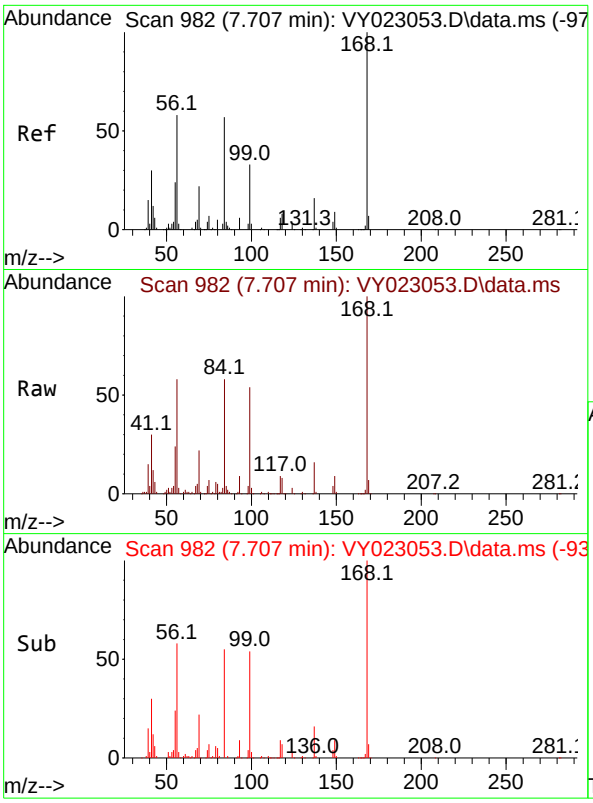
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023053.D
Acq On : 12 Aug 2025 16:02
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Quant Time: Aug 13 01:53:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration



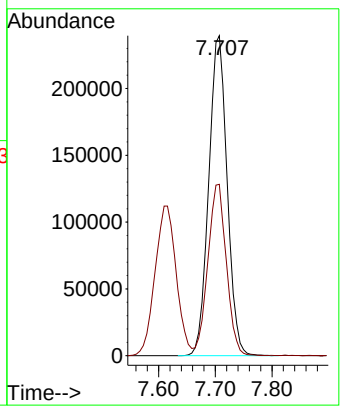


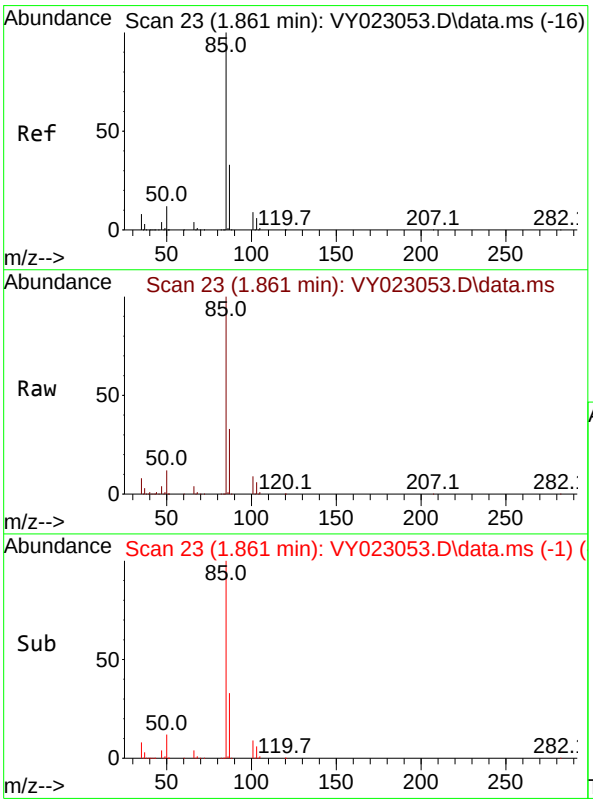

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:168 Resp: 539282

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 53.5 | 42.8 | 64.2 |

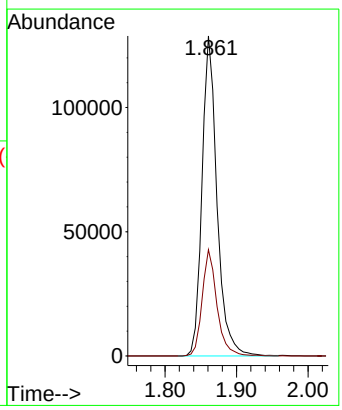


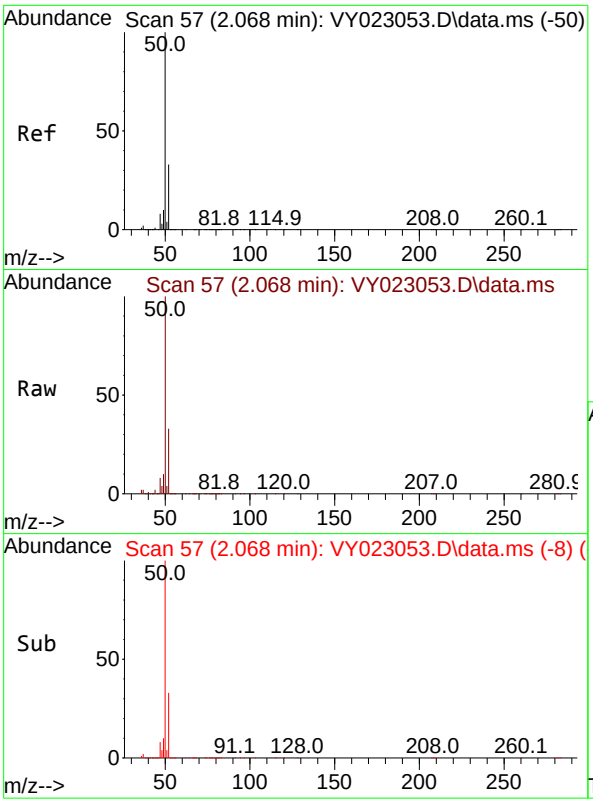




#2
Dichlorodifluoromethane
Concen: 42.677 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 85 Resp: 187863

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.2 | 16.6 | 49.8 |



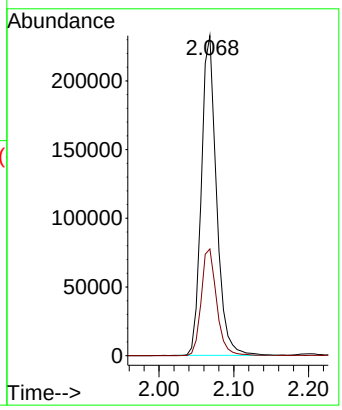


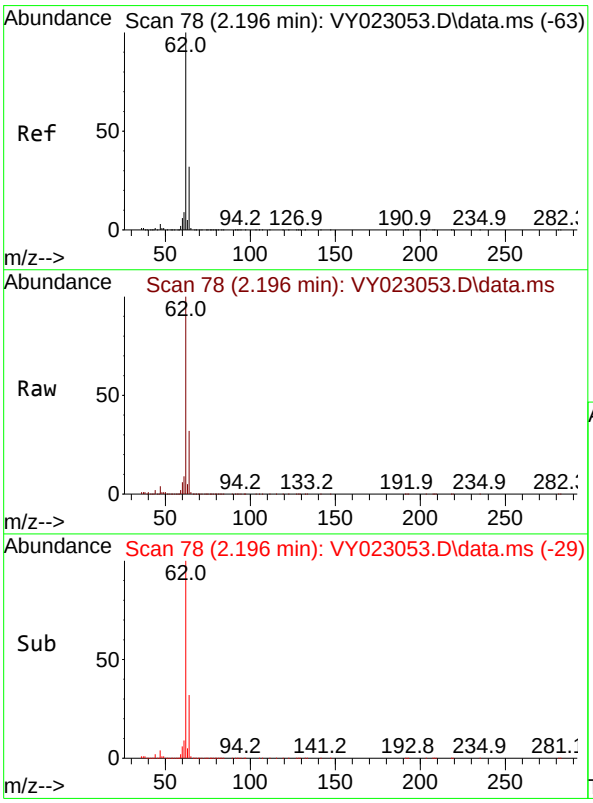

#3
Chloromethane
Concen: 45.932 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 50 Resp: 327481

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.4 | 26.7 | 40.1 |

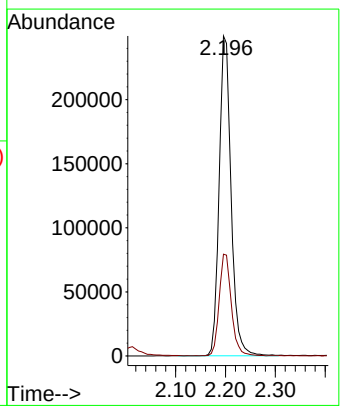


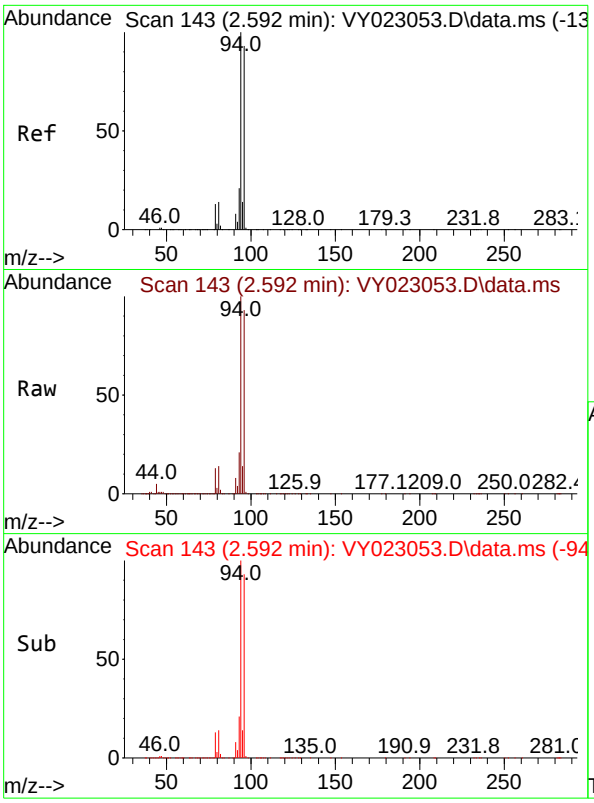




#4
Vinyl Chloride
Concen: 47.044 ug/l
RT: 2.196 min Scan# 78
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 62 Resp: 414609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.7 | 25.4 | 38.0 |



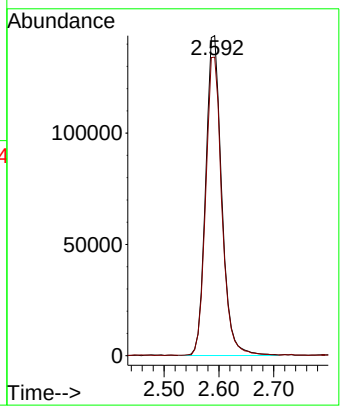


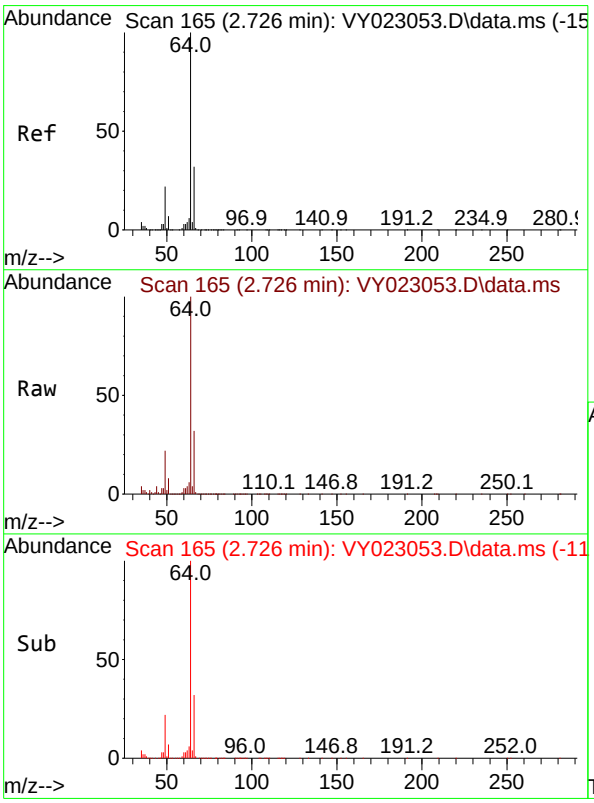

#5
Bromomethane
Concen: 44.263 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 94 Resp: 291336

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 93.3 | 74.6 | 112.0 |

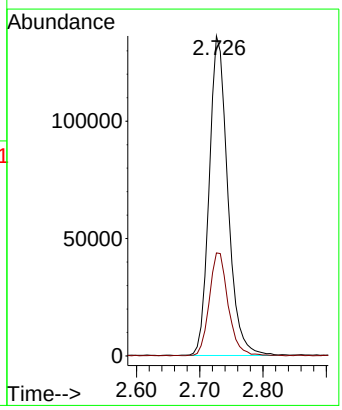


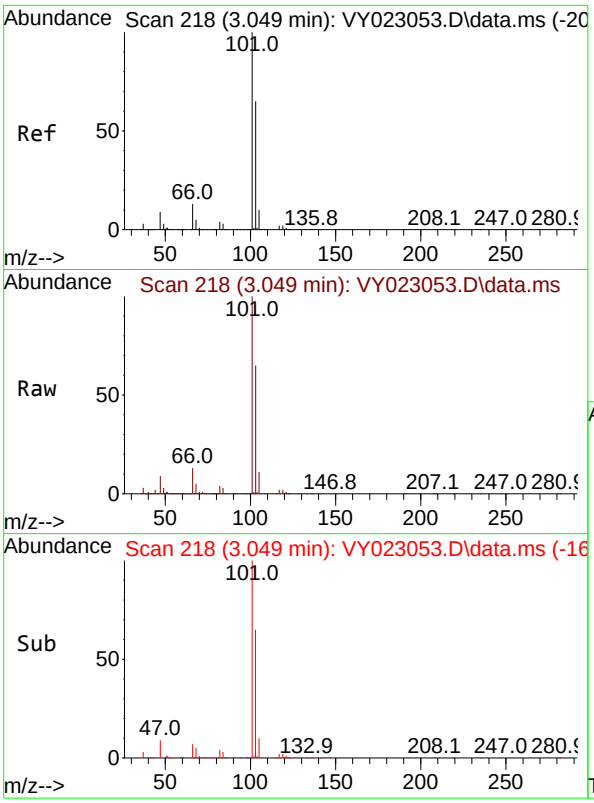




#6
Chloroethane
Concen: 47.394 ug/l
RT: 2.726 min Scan# 165
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 64 Resp: 277698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.2 | 25.8 | 38.6 |



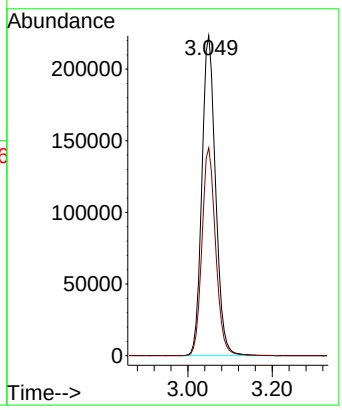


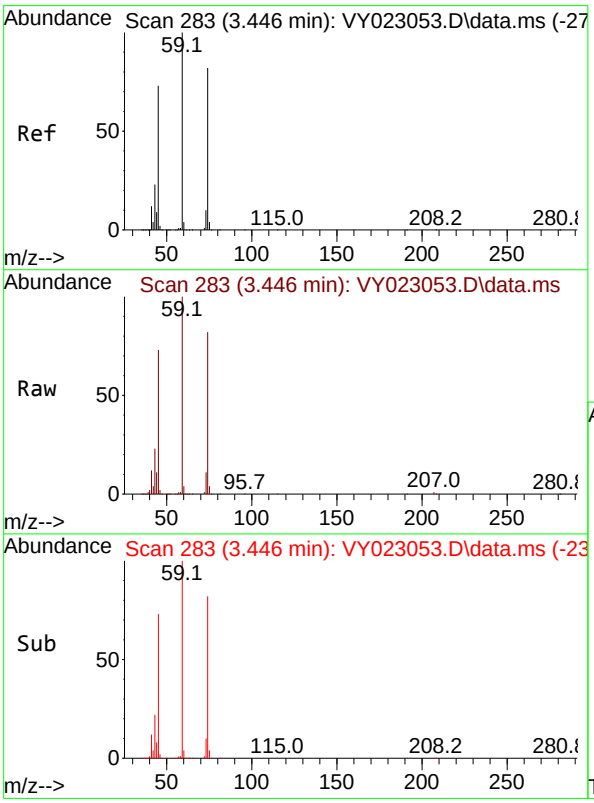

#7
Trichlorofluoromethane
Concen: 47.136 ug/l
RT: 3.049 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:101 Resp: 505137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.9 | 51.9 | 77.9 |

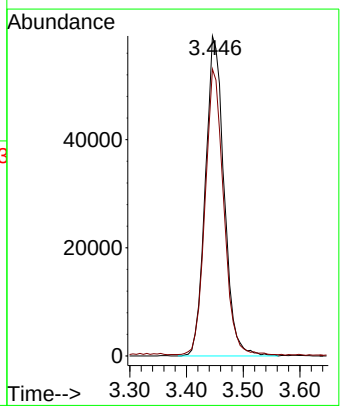


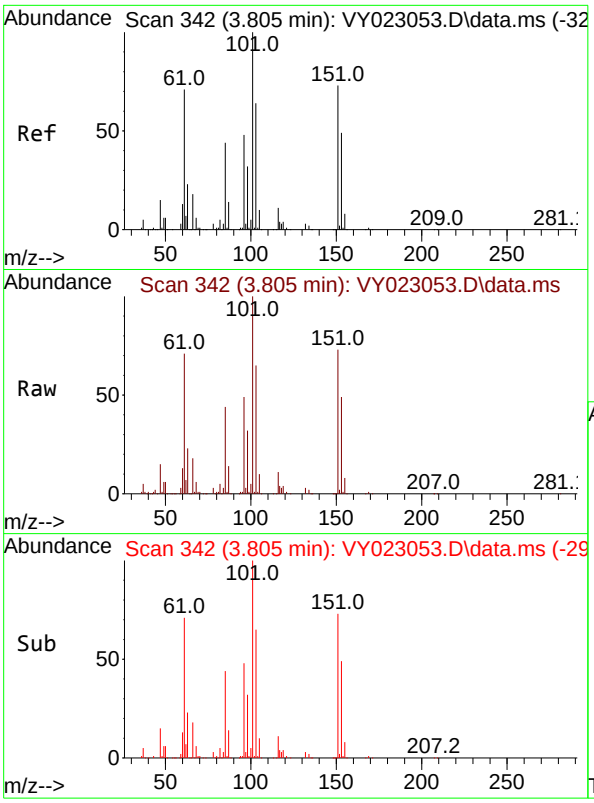




#8
Diethyl Ether
Concen: 47.747 ug/l
RT: 3.446 min Scan# 283
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 74 Resp: 135373

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 88.8 | 44.4 | 133.2 |



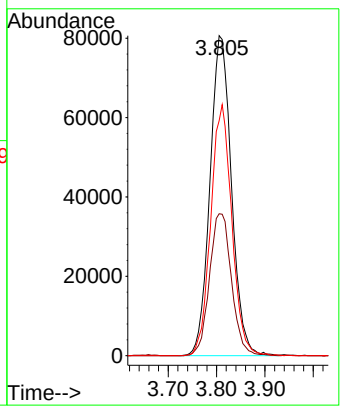


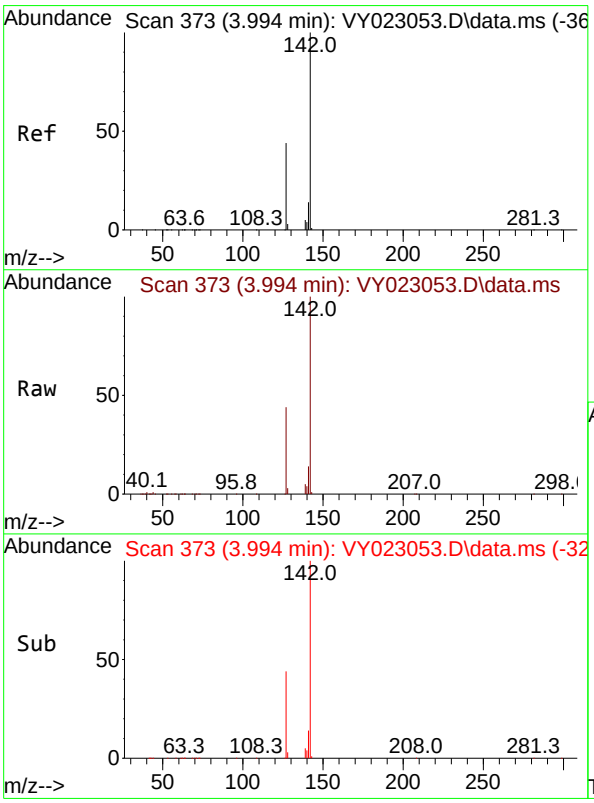

#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.109 ug/l
RT: 3.805 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:101 Resp: 249063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 45.4 | 36.3 | 54.5 |
| 151 | 76.9 | 61.5 | 92.3 |

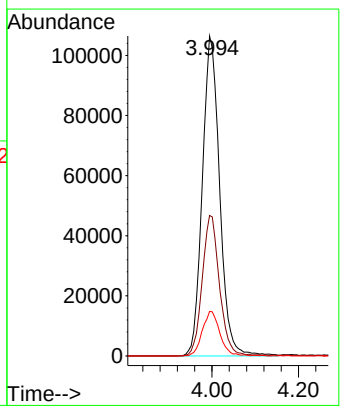


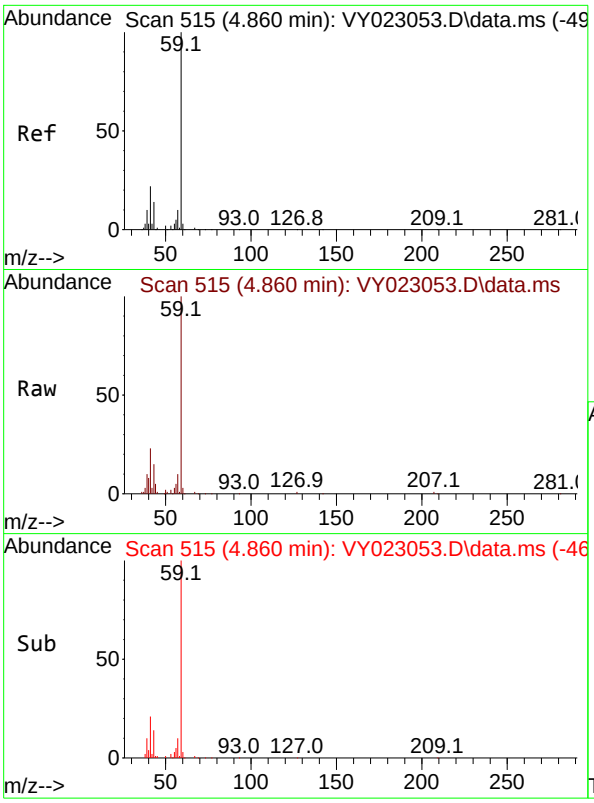




#10
Methyl Iodide
Concen: 51.899 ug/l
RT: 3.994 min Scan# 373
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:142 Resp: 296087

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 43.6 | 34.9 | 52.3 |
| 141 | 14.1 | 11.3 | 16.9 |



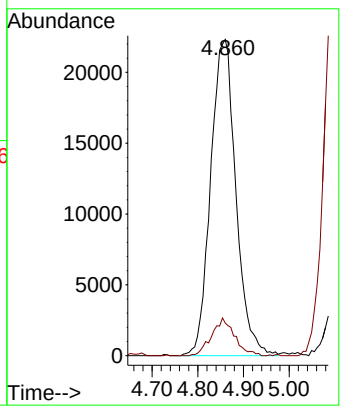


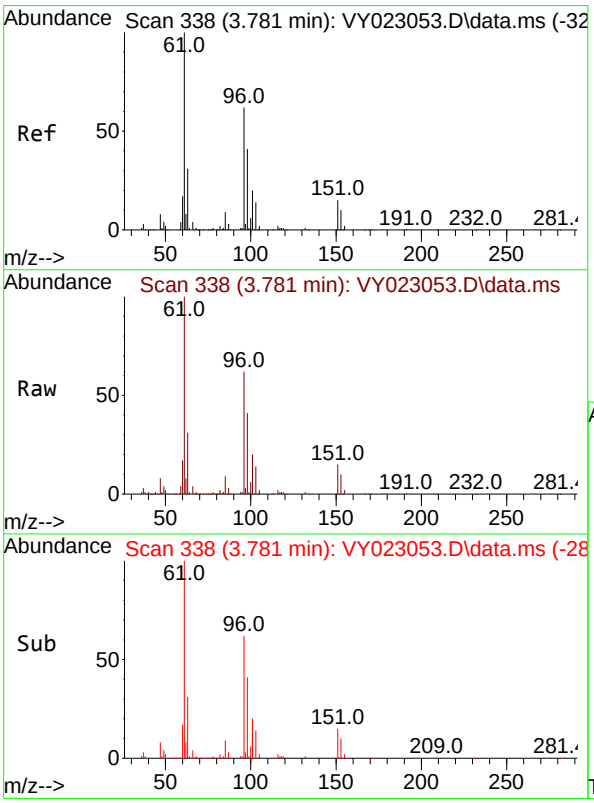

#11
Tert butyl alcohol
Concen: 243.383 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 59 Resp: 85712

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.8 | 8.6 | 13.0 |

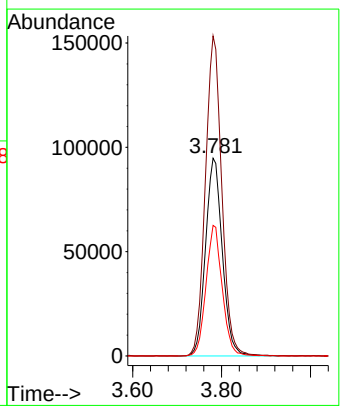


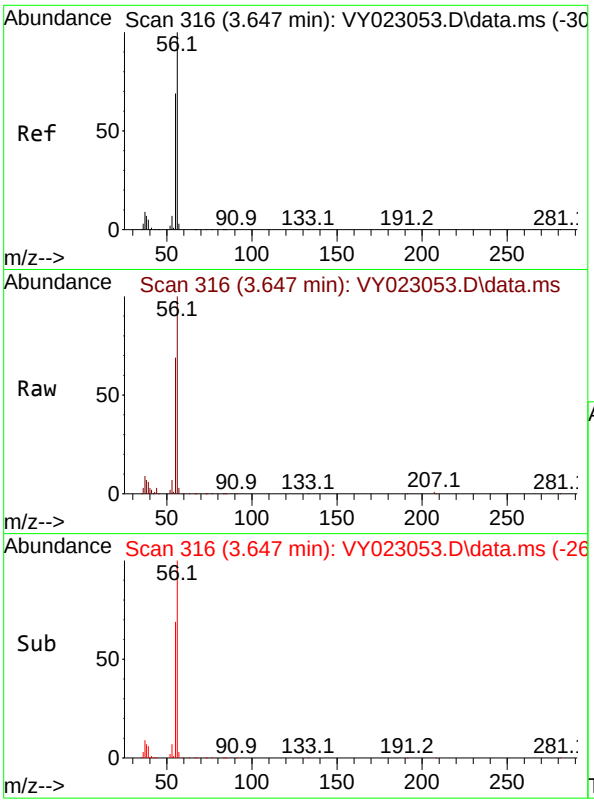




#12
1,1-Dichloroethene
Concen: 48.009 ug/l
RT: 3.781 min Scan# 338
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 96 Resp: 249492

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 161.8 | 129.4 | 194.2 |
| 98 | 66.0 | 52.8 | 79.2 |



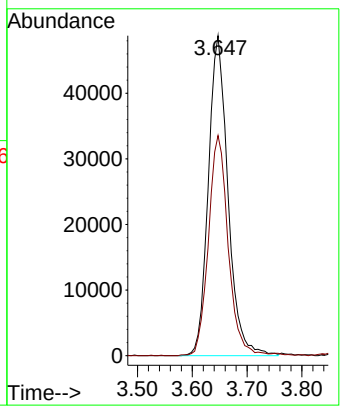


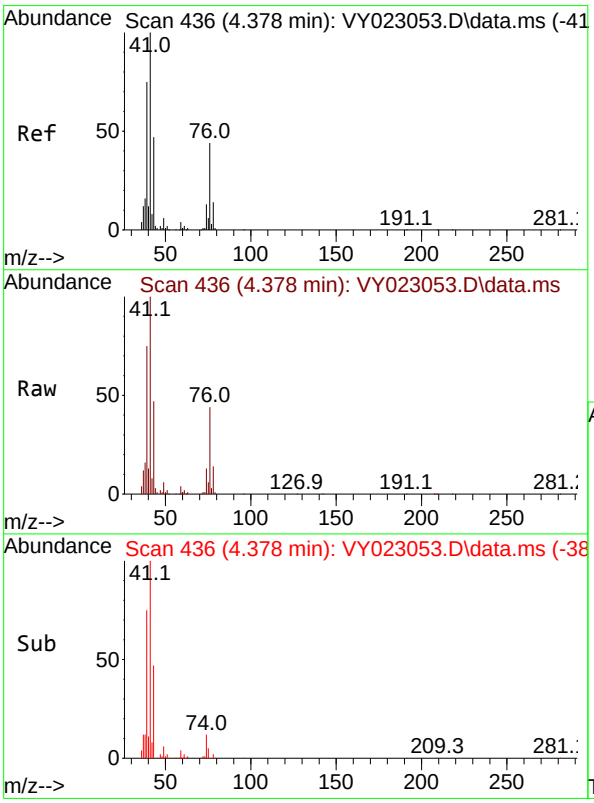

#13
Acrolein
Concen: 234.966 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 56 Resp: 121185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 69.0 | 55.2 | 82.8 |

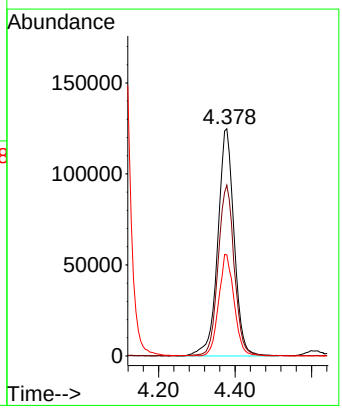


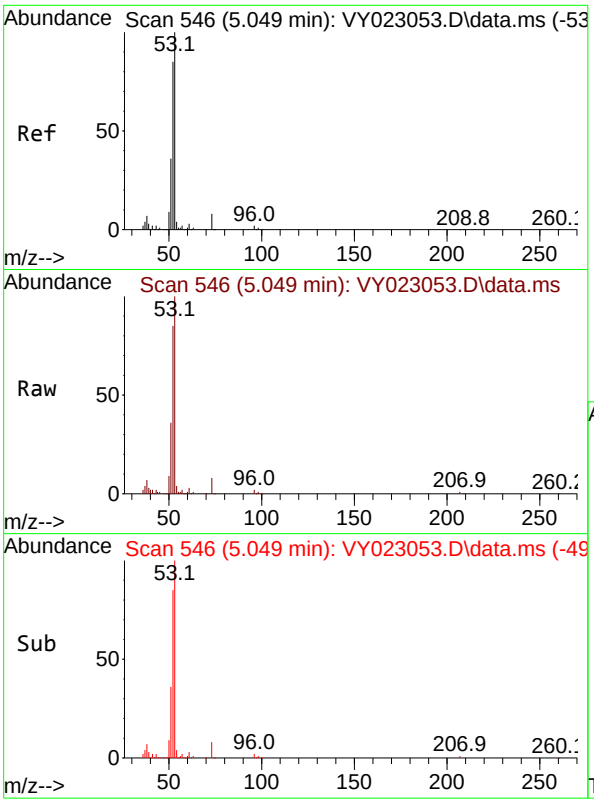




#14
Allyl chloride
Concen: 48.350 ug/l
RT: 4.378 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 41 Resp: 369720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 74.7 | 59.8 | 89.6 |
| 76 | 42.1 | 33.7 | 50.5 |



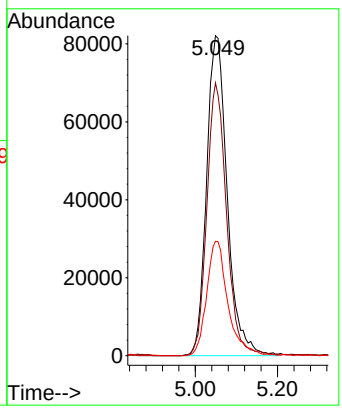


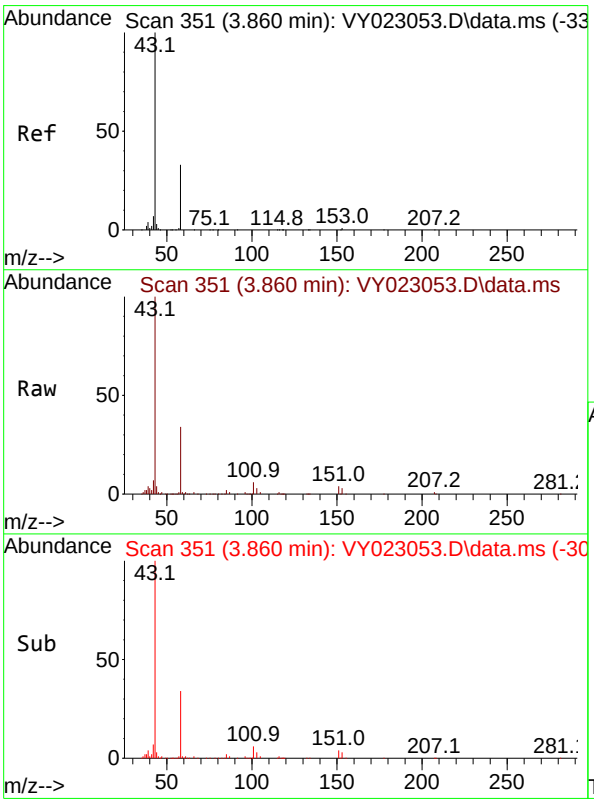

#15
Acrylonitrile
Concen: 247.839 ug/l
RT: 5.049 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 53 Resp: 285675

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.6 | 65.3 | 97.9 |
| 51 | 36.9 | 29.5 | 44.3 |

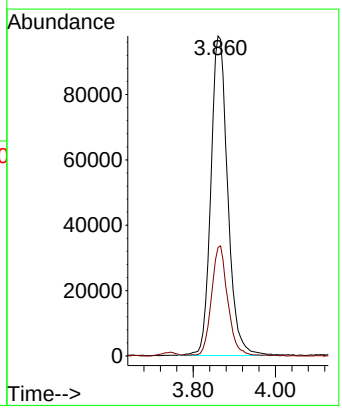


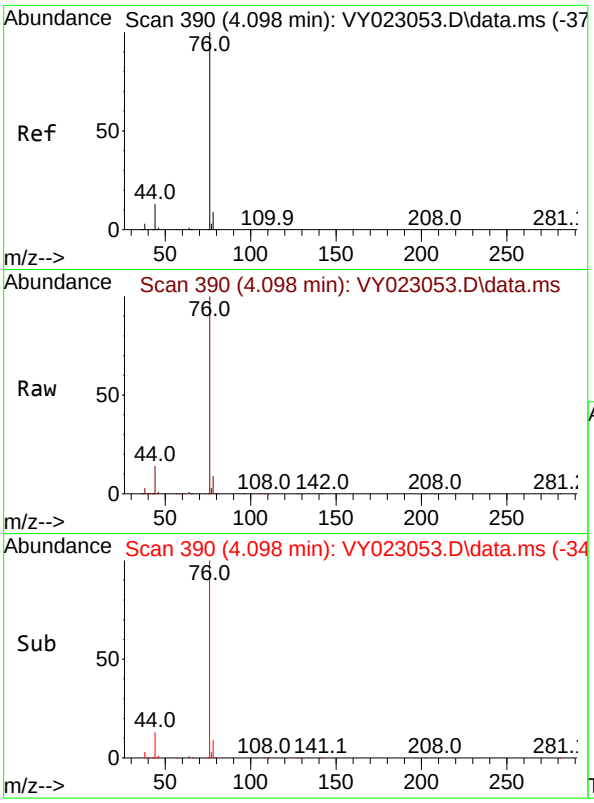




#16
Acetone
Concen: 250.122 ug/l
RT: 3.860 min Scan# 351
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 43 Resp: 278510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.9 | 27.1 | 40.7 |



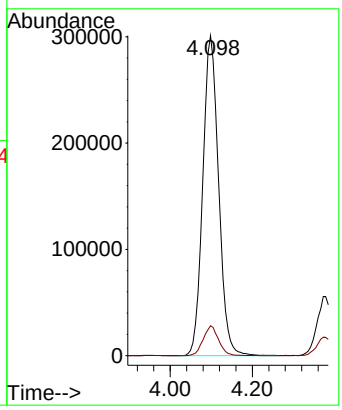


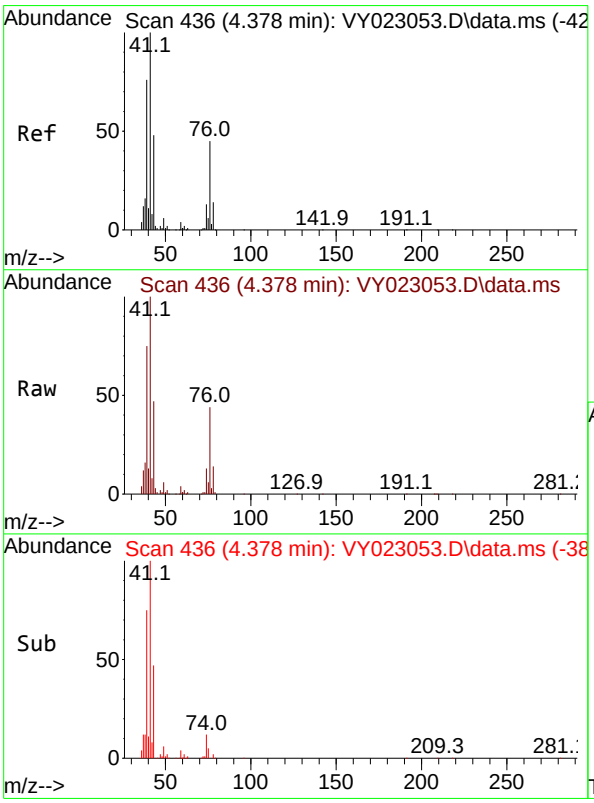

#17
Carbon Disulfide
Concen: 47.456 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 76 Resp: 804119

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.3 | 7.4 | 11.2 |

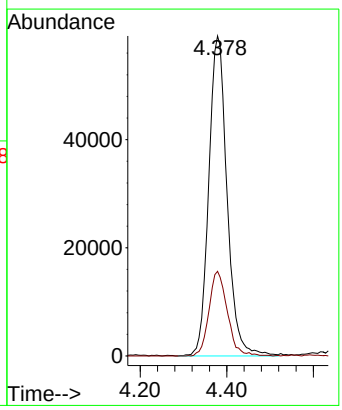


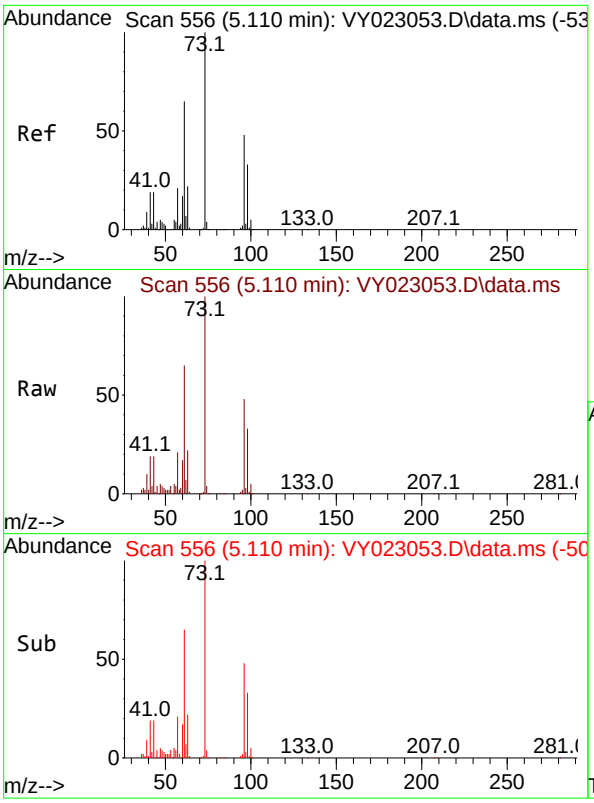




#18
Methyl Acetate
Concen: 52.403 ug/l
RT: 4.378 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 43 Resp: 173642

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 26.5 | 21.2 | 31.8 |



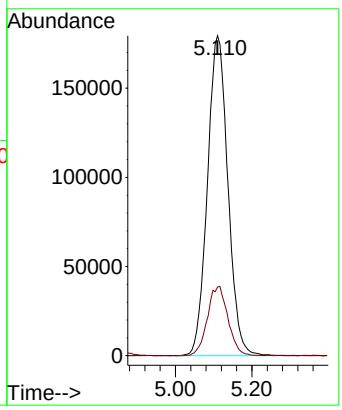


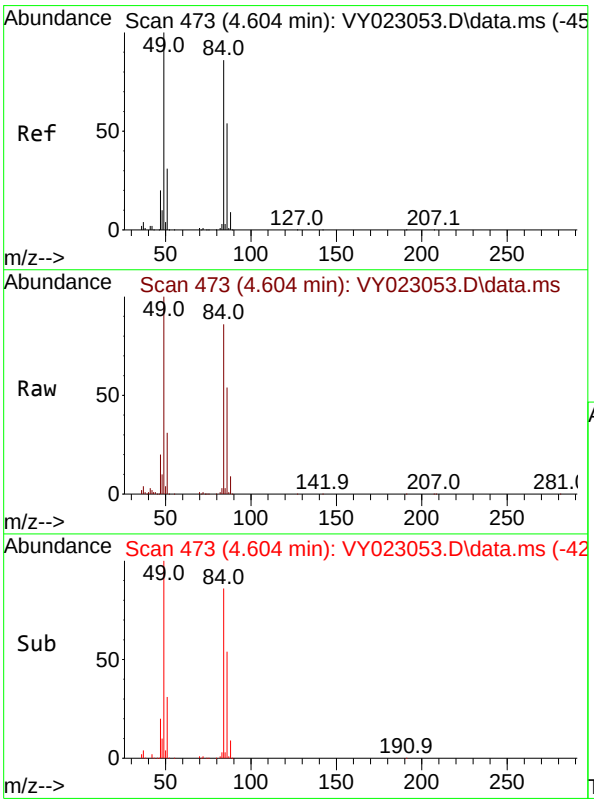

#19
Methyl tert-butyl Ether
Concen: 49.495 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 73 Resp: 666514

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.4 | 17.1 | 25.7 |

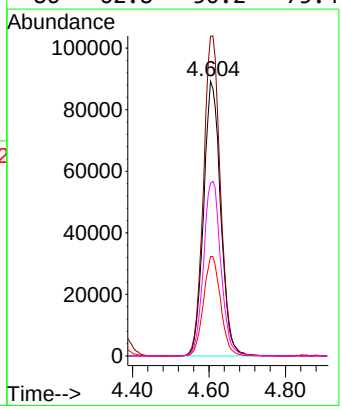


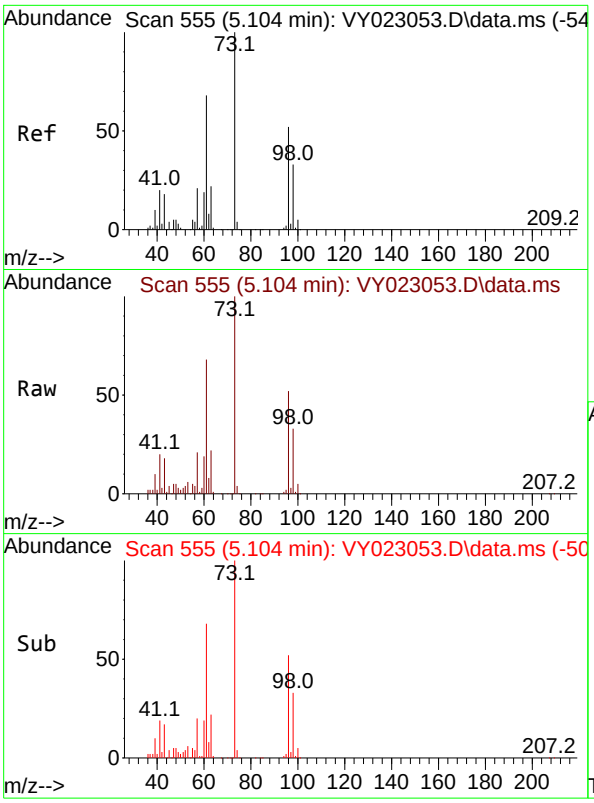




#20
Methylene Chloride
Concen: 47.415 ug/l
RT: 4.604 min Scan# 473
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 84 Resp: 275004

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 116.3 | 93.0 | 139.6 |
| 51 | 36.2 | 29.0 | 43.4 |
| 86 | 62.8 | 50.2 | 75.4 |



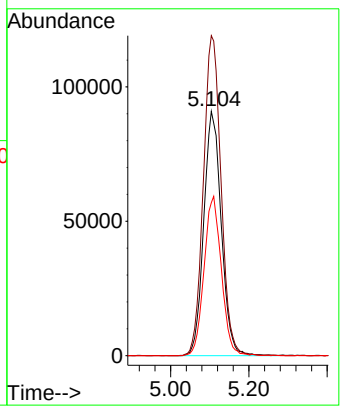


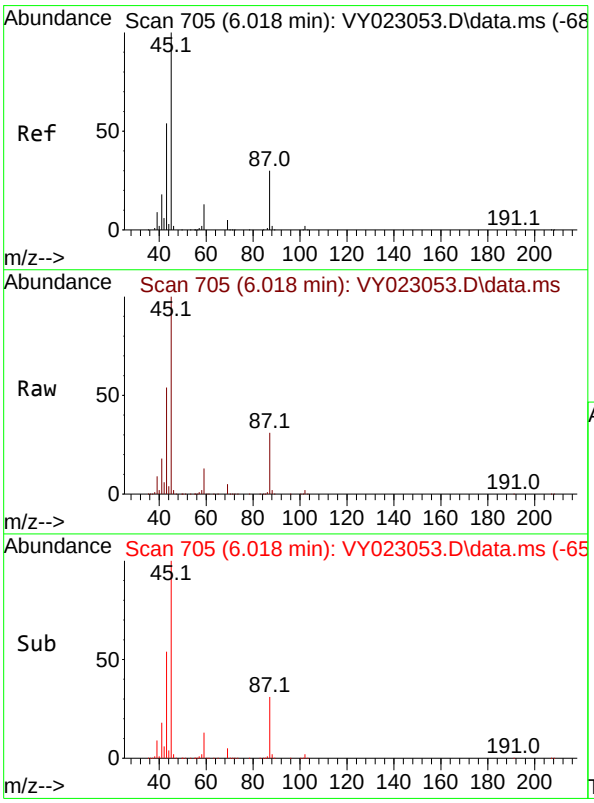

#21
trans-1,2-Dichloroethene
Concen: 48.334 ug/l
RT: 5.104 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 96 Resp: 282272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 131.0 | 104.8 | 157.2 |
| 98 | 62.6 | 50.1 | 75.1 |

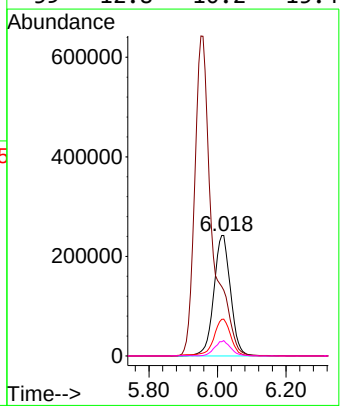


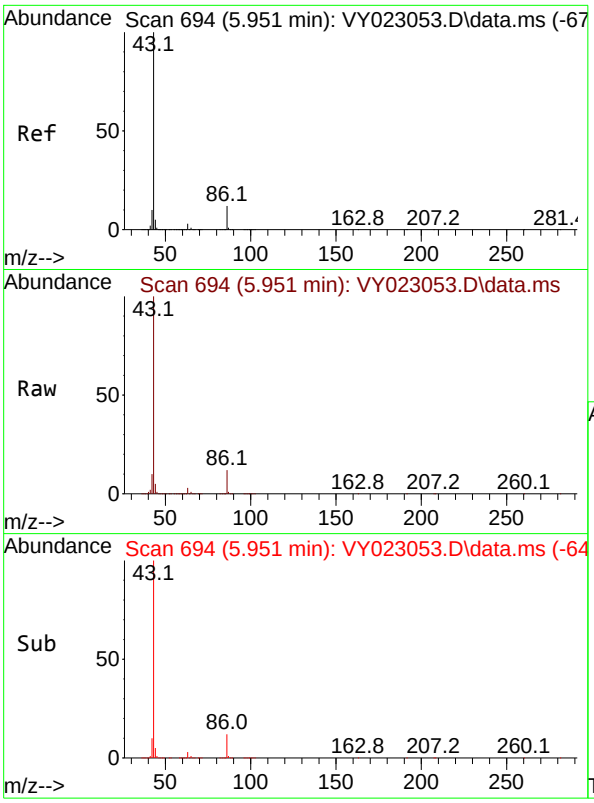




#22
Diisopropyl ether
Concen: 49.070 ug/l
RT: 6.018 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 45 Resp: 815359

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 54.2 | 43.4 | 65.0 |
| 87 | 30.5 | 24.4 | 36.6 |
| 59 | 12.8 | 10.2 | 15.4 |



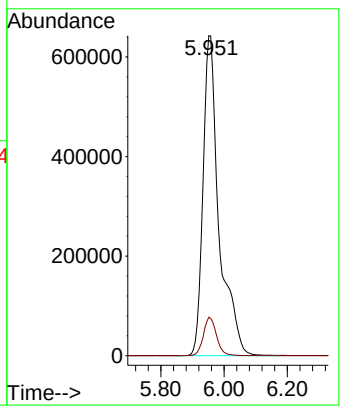


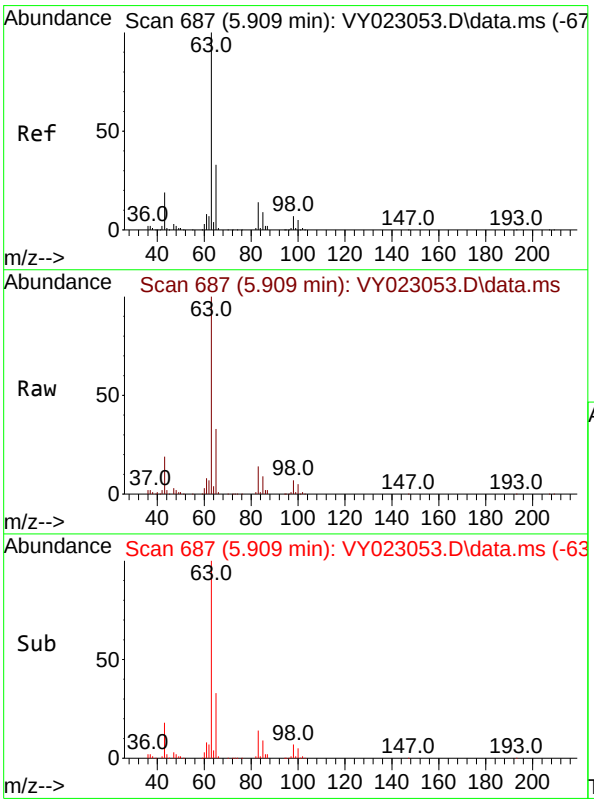

#23
Vinyl Acetate
Concen: 246.849 ug/l
RT: 5.951 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 43 Resp: 2268046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 12.0 | 9.6 | 14.4 |

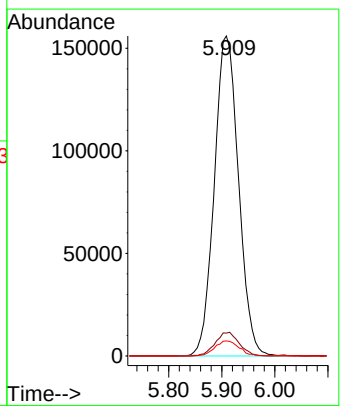


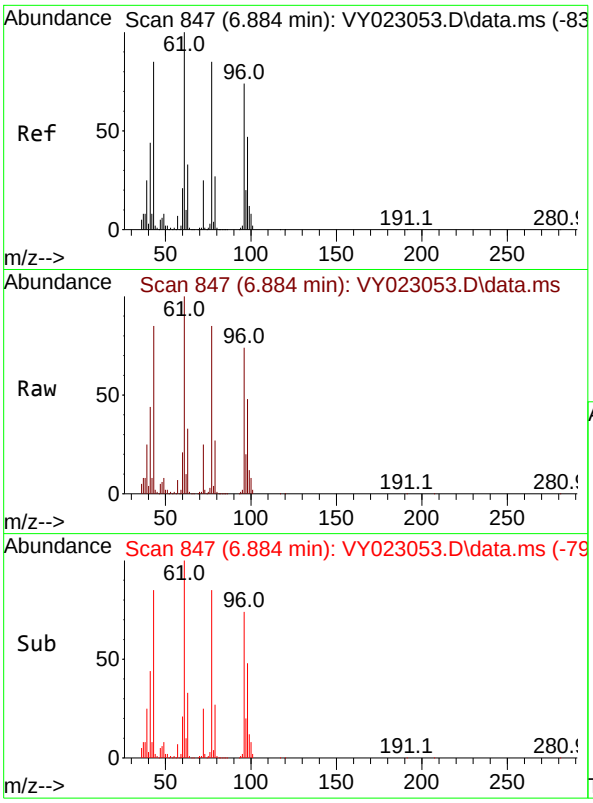




#24
1,1-Dichloroethane
Concen: 48.732 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 63 Resp: 495073

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.1 | 3.5 | 10.6 |
| 100 | 4.7 | 2.4 | 7.1 |



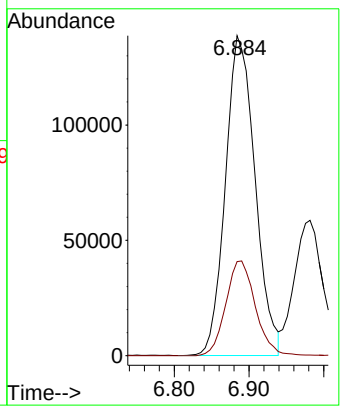


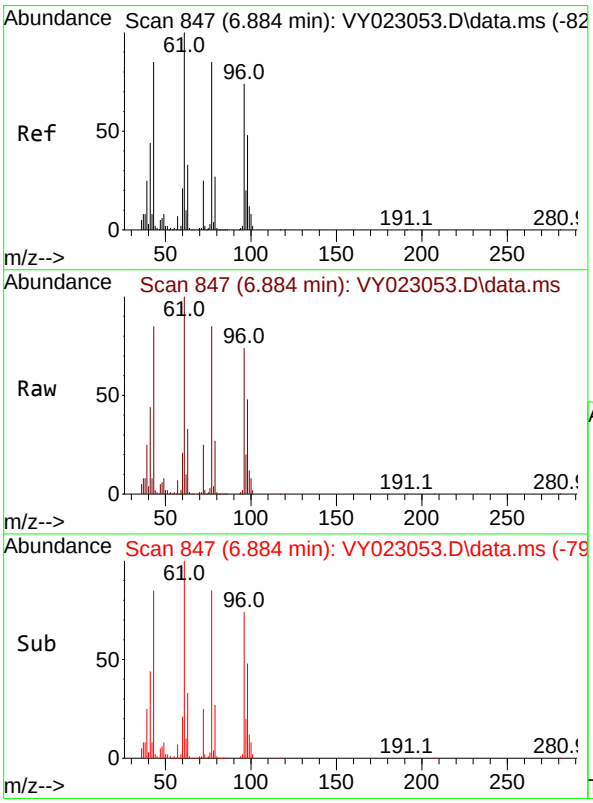

#25
2-Butanone
Concen: 252.715 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 43 Resp: 382711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 29.4 | 23.5 | 35.3 |

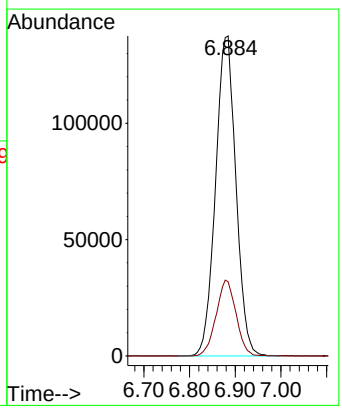


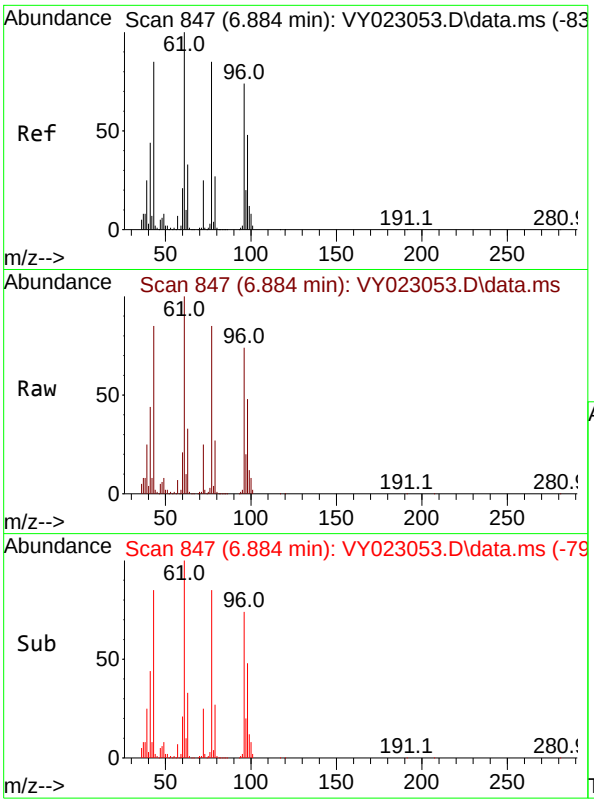




#26
2,2-Dichloropropane
Concen: 48.571 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 77 Resp: 425773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.2 | 11.6 | 34.8 |



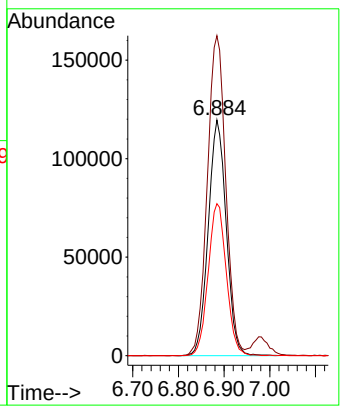


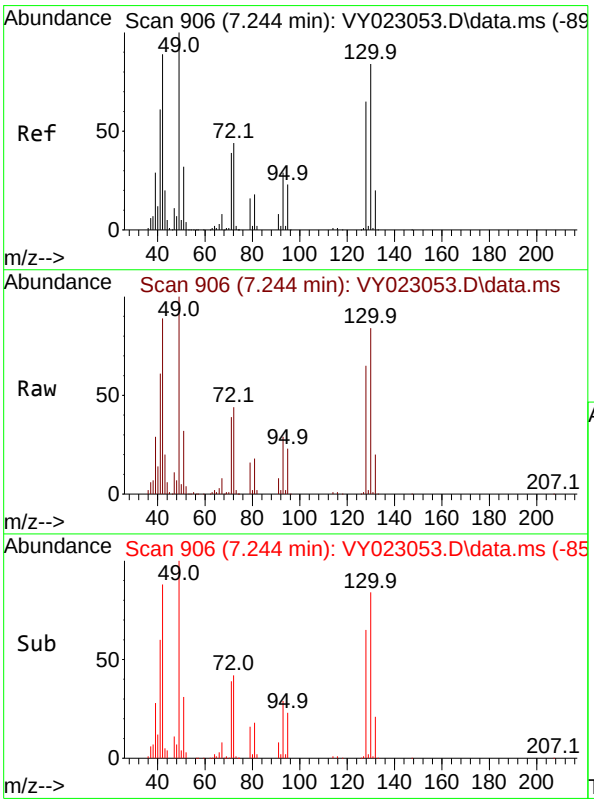

#27
cis-1,2-Dichloroethene
Concen: 48.474 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 96 Resp: 327272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 139.3 | 0.0 | 278.6 |
| 98 | 65.2 | 0.0 | 130.4 |

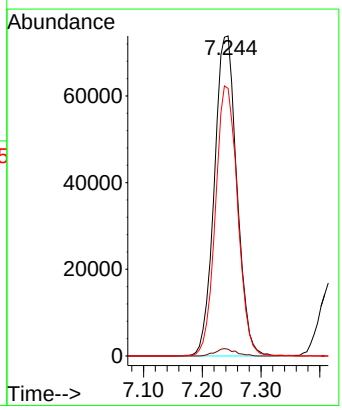


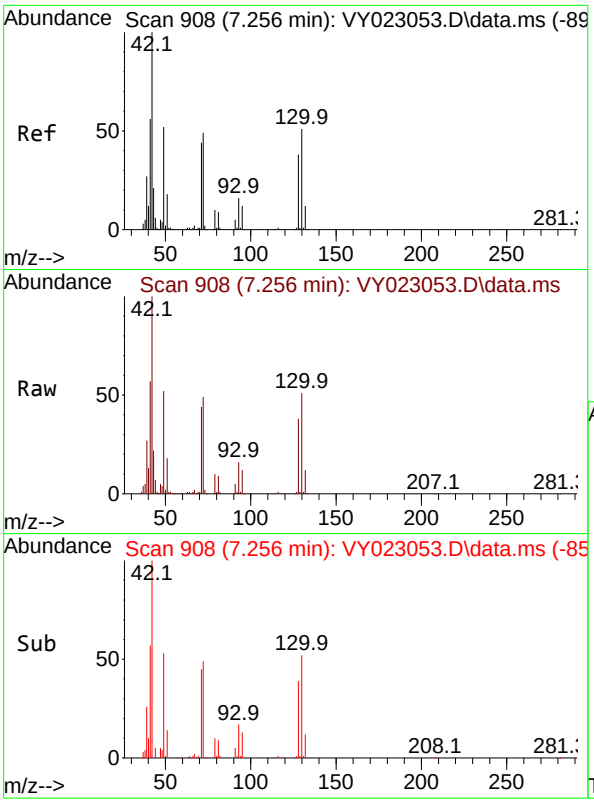




#28
Bromochloromethane
Concen: 48.795 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 49 Resp: 196667

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.1 | 0.0 | 4.2 |
| 130 | 83.0 | 66.4 | 99.6 |



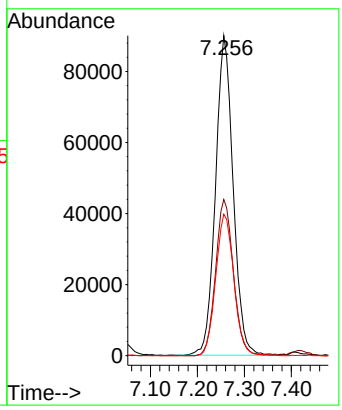


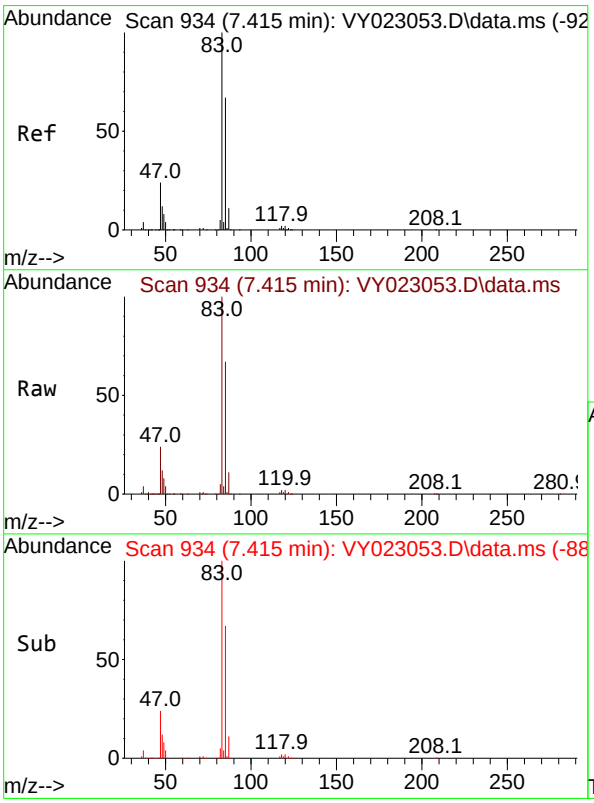

#29
Tetrahydrofuran
Concen: 250.523 ug/l
RT: 7.256 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 42 Resp: 235169

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 49.3 | 39.4 | 59.2 |
| 71 | 45.6 | 36.5 | 54.7 |

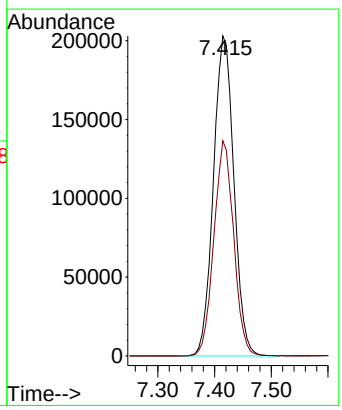


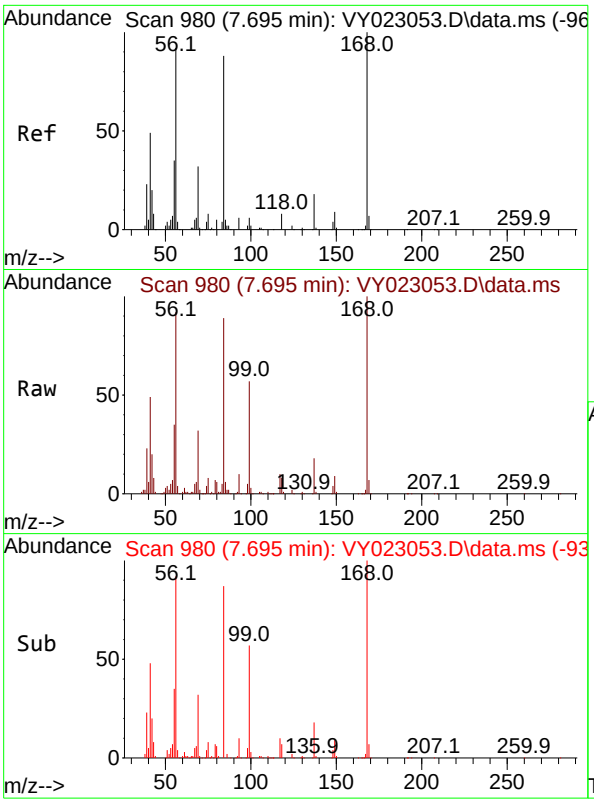




#30
Chloroform
Concen: 48.547 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 83 Resp: 508641

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 67.3 | 53.8 | 80.8 |



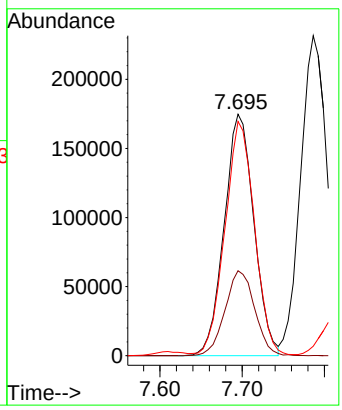


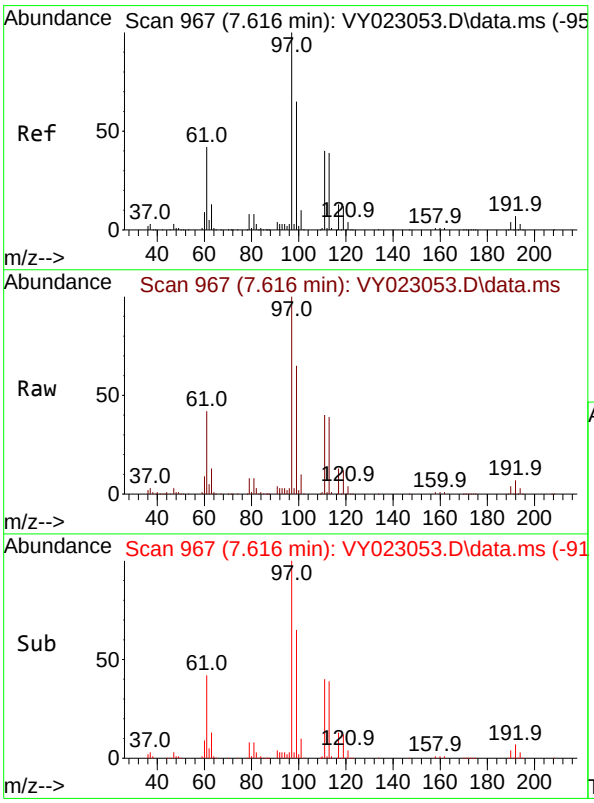

#31
Cyclohexane
Concen: 45.989 ug/l
RT: 7.695 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 56 Resp: 440266

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 35.2 | 28.2 | 42.2 |
| 84 | 95.7 | 76.6 | 114.8 |

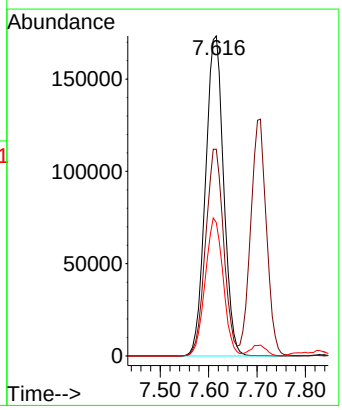


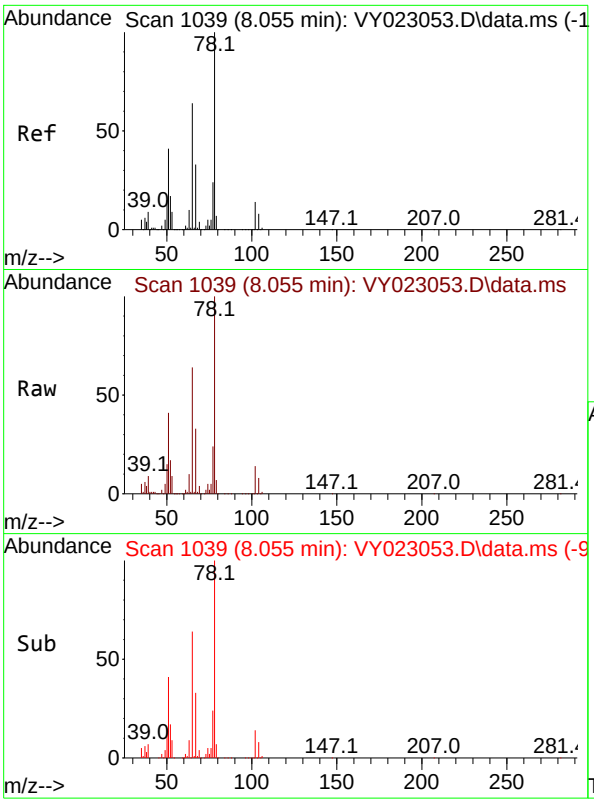




#32
1,1,1-Trichloroethane
Concen: 48.569 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 97 Resp: 451521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.5 | 51.6 | 77.4 |
| 61 | 42.7 | 34.2 | 51.2 |



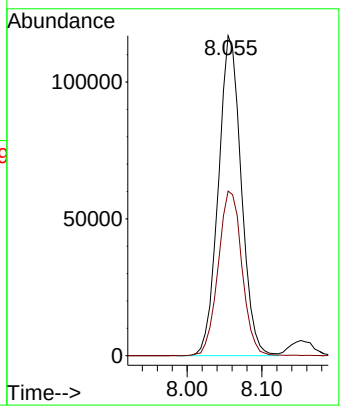


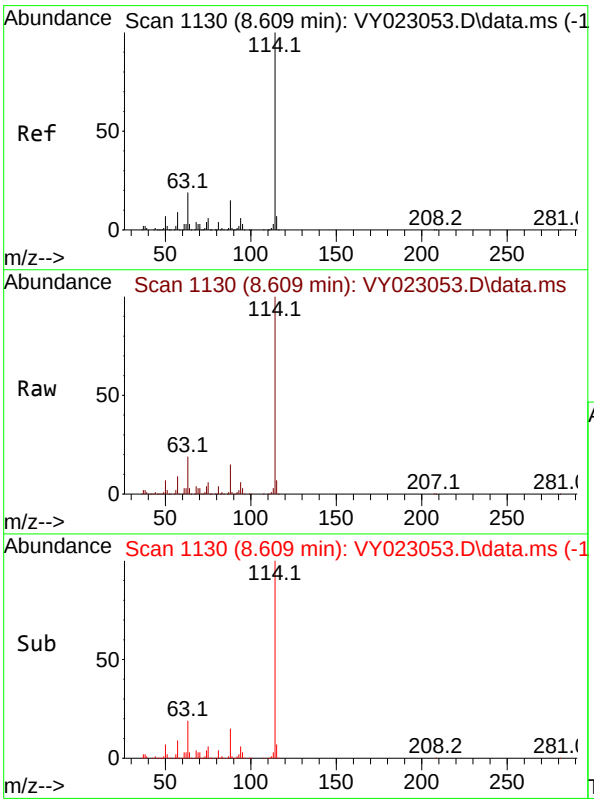

#33
1,2-Dichloroethane-d4
Concen: 48.455 ug/l
RT: 8.055 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 65 Resp: 249044

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.4 | 0.0 | 106.8 |

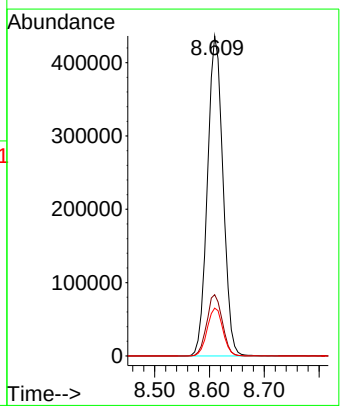


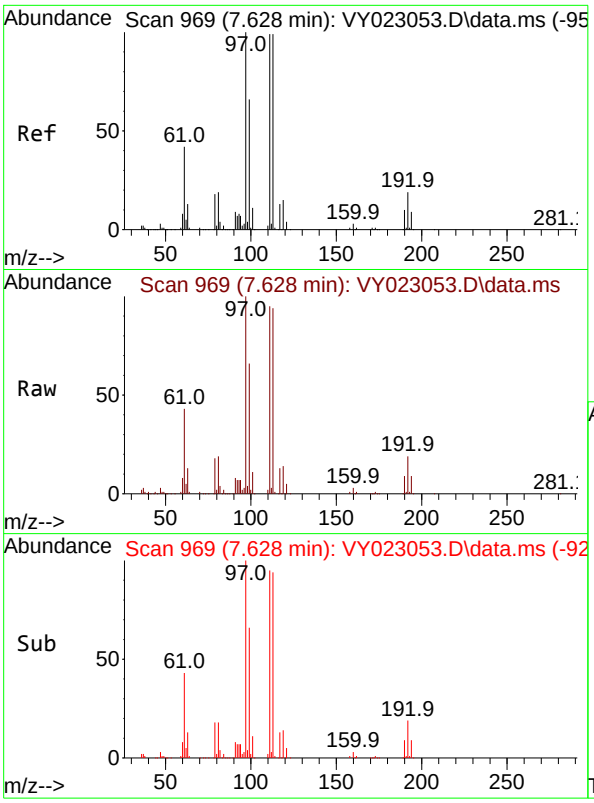




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:114 Resp: 856556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.2 | 0.0 | 38.4 |
| 88 | 15.0 | 0.0 | 30.0 |



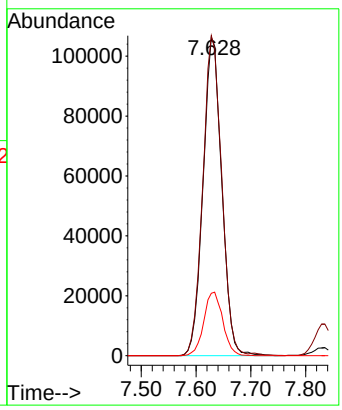


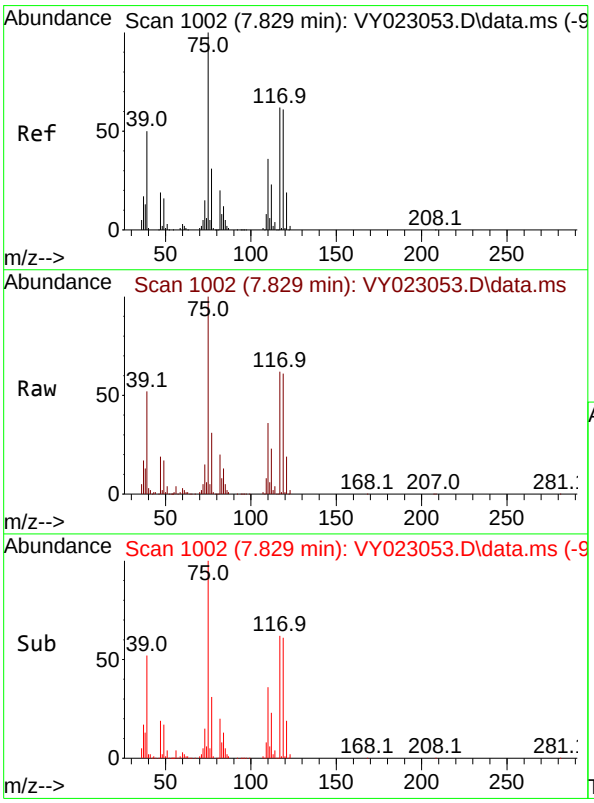

#35
Dibromofluoromethane
Concen: 49.010 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:113 Resp: 251193

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.4 | 81.1 | 121.7 |
| 192 | 20.3 | 16.2 | 24.4 |

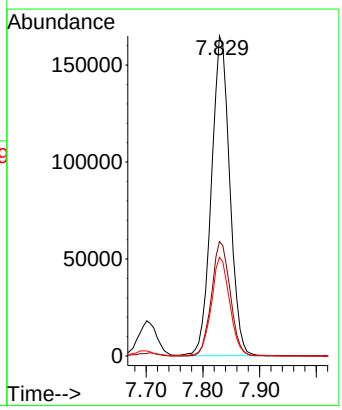


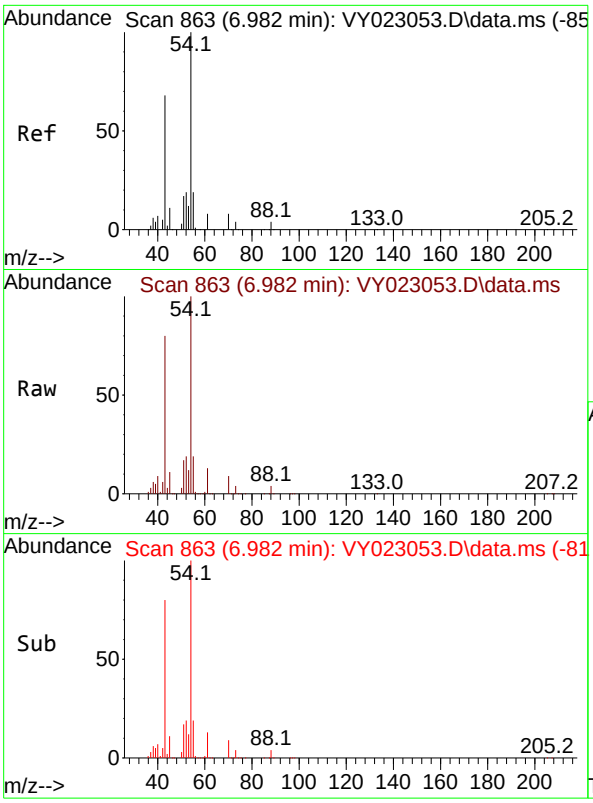




#36
1,1-Dichloropropene
Concen: 48.734 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 75 Resp: 371204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 36.3 | 18.1 | 54.4 |
| 77 | 30.8 | 24.6 | 37.0 |



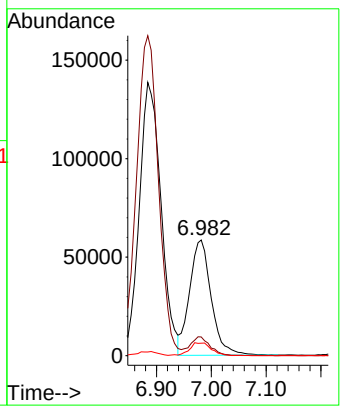


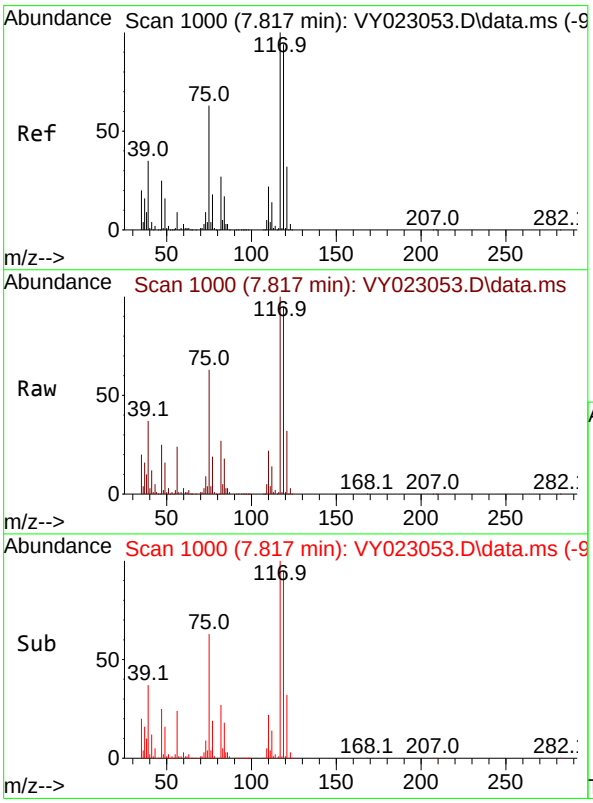

#37
Ethyl Acetate
Concen: 50.311 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 43 Resp: 160980

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.9 | 11.9 | 17.9 |
| 70 | 11.0 | 8.8 | 13.2 |

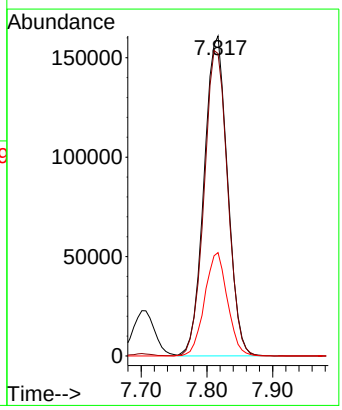


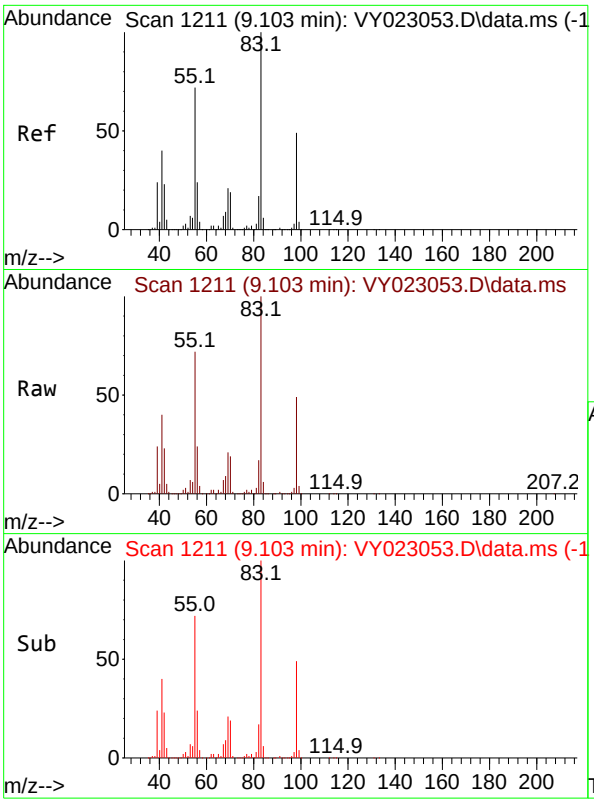




#38
Carbon Tetrachloride
Concen: 48.285 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:117 Resp: 399463

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.5 | 75.6 | 113.4 |
| 121 | 32.3 | 25.8 | 38.8 |



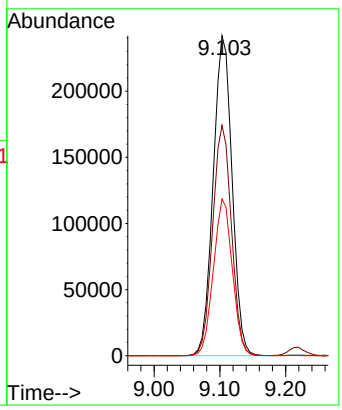


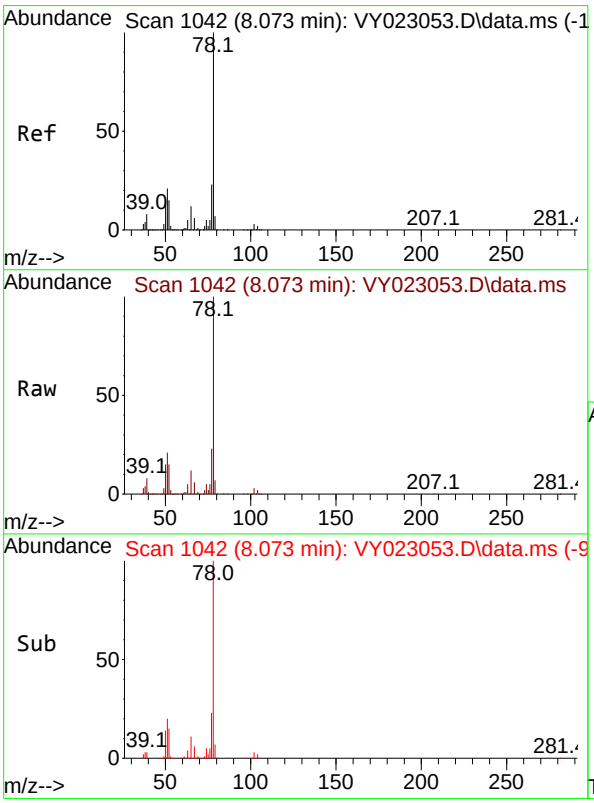

#39
Methylcyclohexane
Concen: 48.321 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 83 Resp: 484691

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 72.0 | 57.6 | 86.4 |
| 98 | 49.0 | 39.2 | 58.8 |

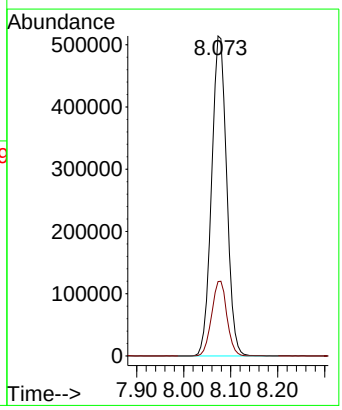


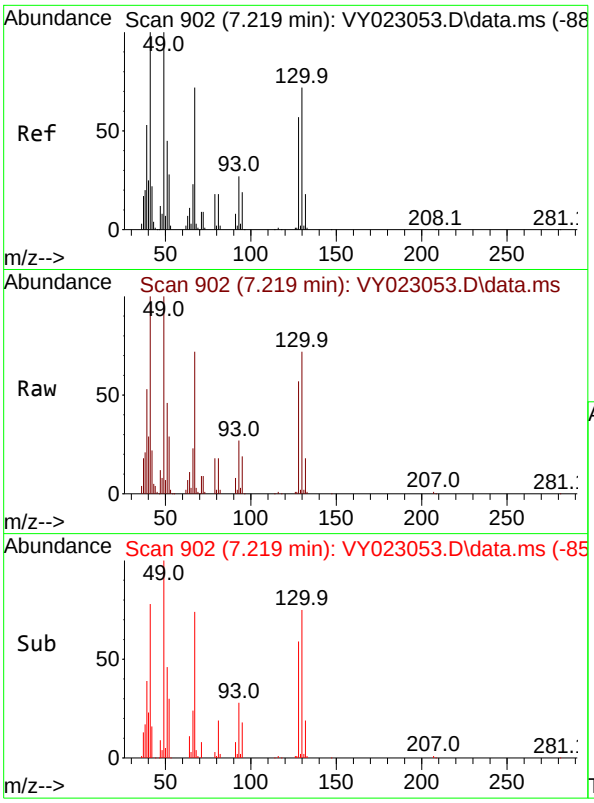




#40
Benzene
Concen: 48.683 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 78 Resp: 1142910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.3 | 18.6 | 28.0 |



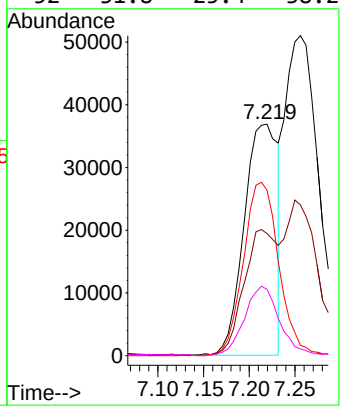


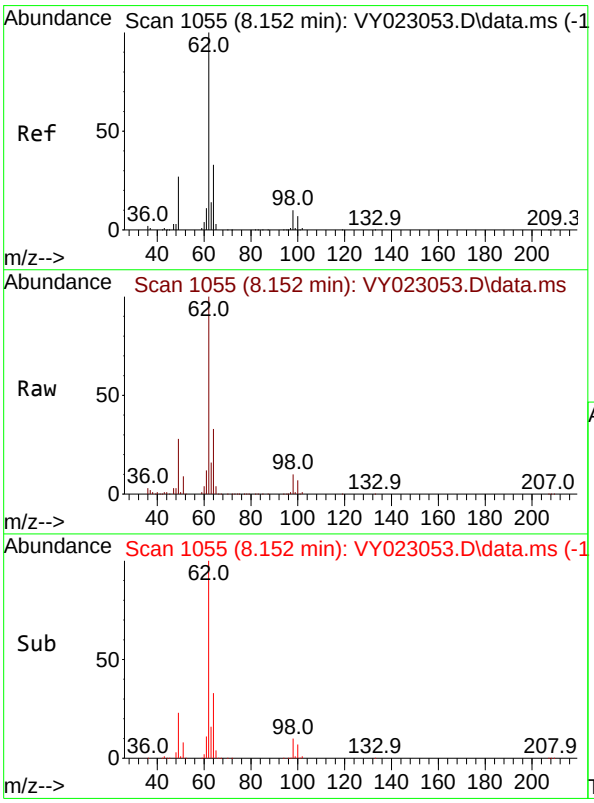

#41
Methacrylonitrile
Concen: 50.916 ug/l
RT: 7.219 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 41 Resp: 94123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 54.3 | 43.4 | 65.2 |
| 67 | 79.5 | 63.6 | 95.4 |
| 52 | 31.8 | 25.4 | 38.2 |

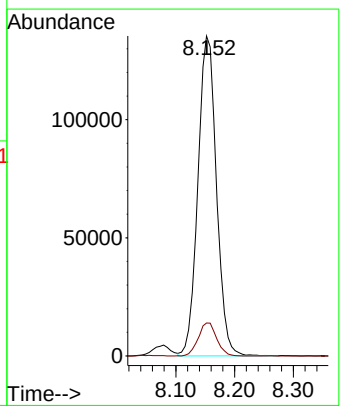


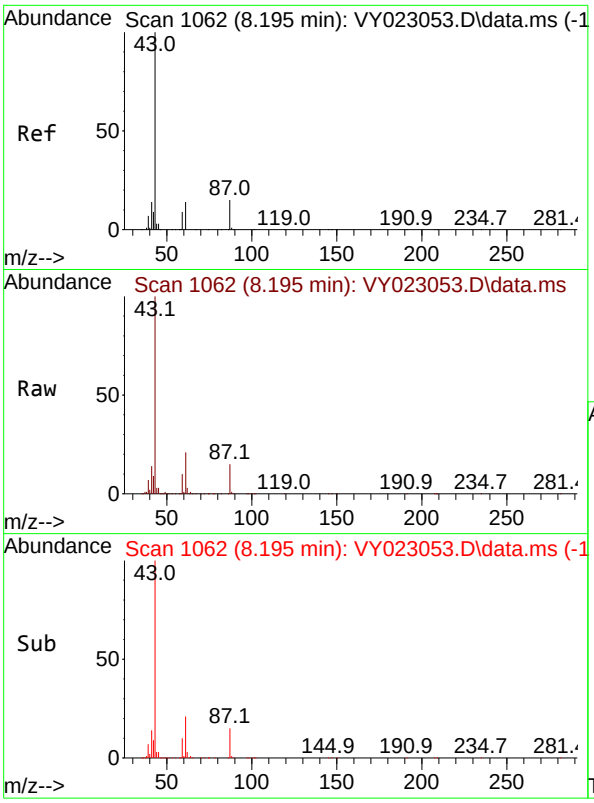




#42
1,2-Dichloroethane
Concen: 48.627 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 62 Resp: 296907

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.3 | 0.0 | 20.6 |



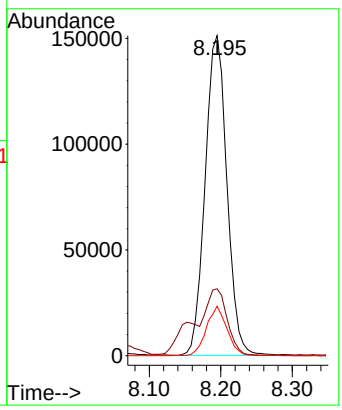


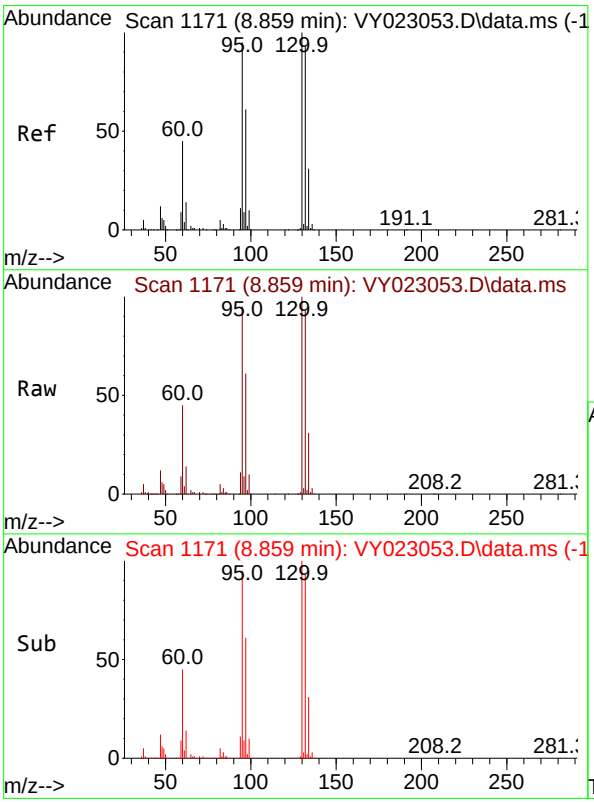

#43
Isopropyl Acetate
Concen: 49.419 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 43 Resp: 319600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 20.5 | 16.4 | 24.6 |
| 87 | 14.7 | 11.8 | 17.6 |

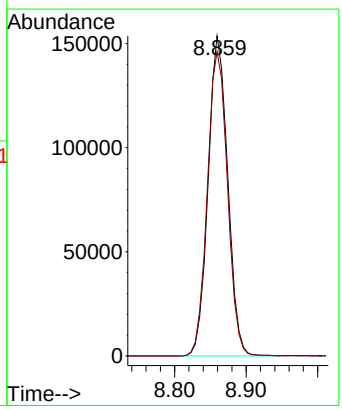


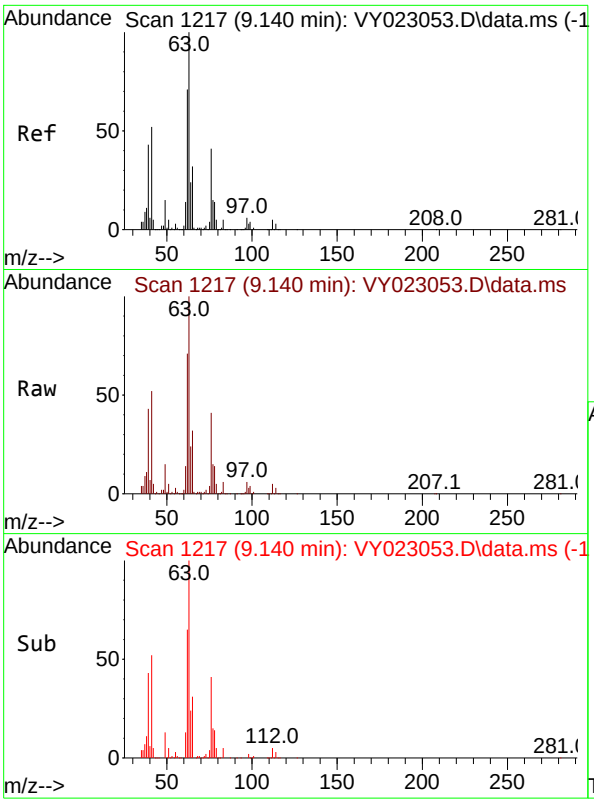




#44
Trichloroethene
Concen: 48.199 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:130 Resp: 292421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 95.1 | 0.0 | 190.2 |



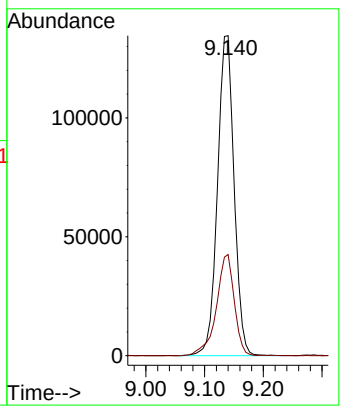


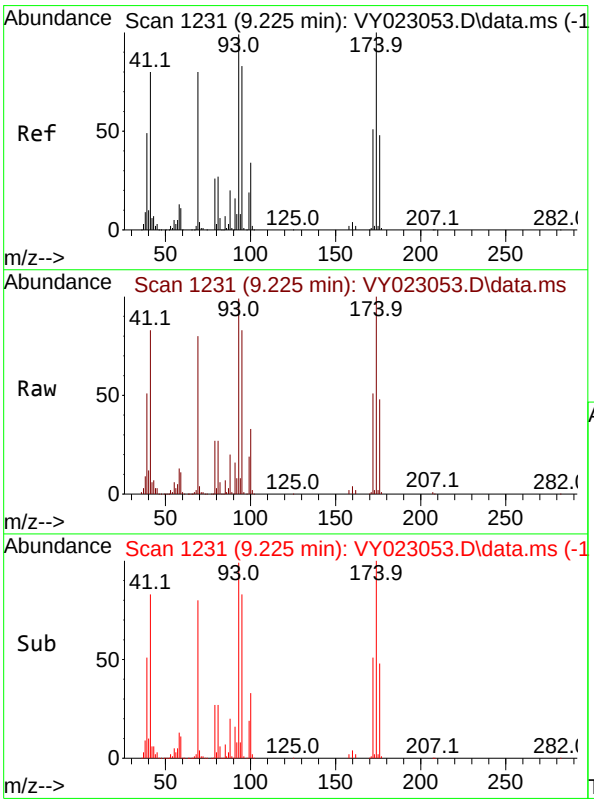

#45
1,2-Dichloropropane
Concen: 48.938 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 63 Resp: 264354

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.6 | 25.3 | 37.9 |

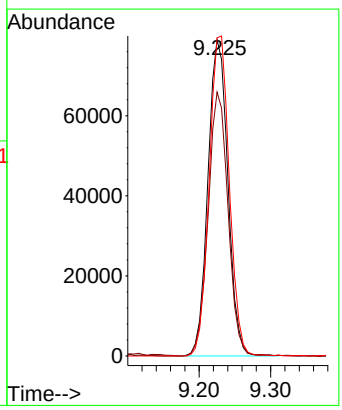


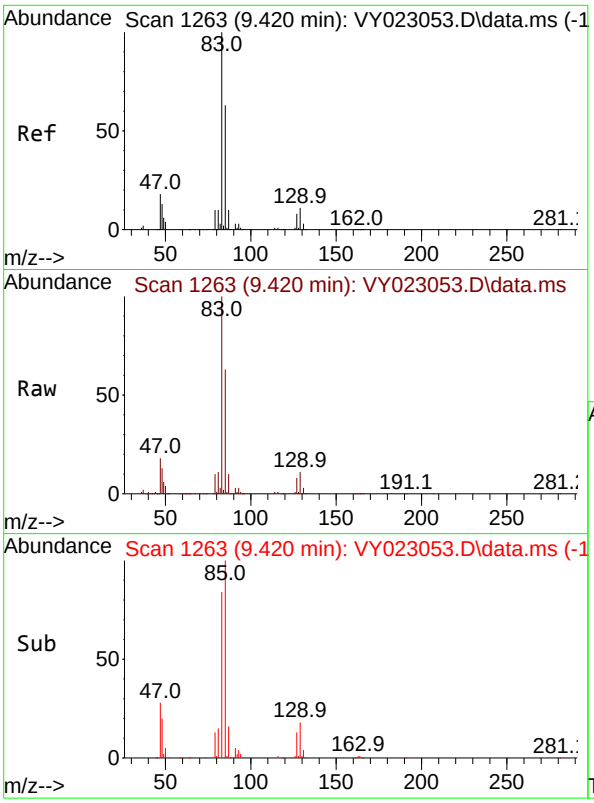




#46
Dibromomethane
Concen: 49.291 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 93 Resp: 152822

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 83.1 | 66.5 | 99.7 |
| 174 | 102.3 | 81.8 | 122.8 |



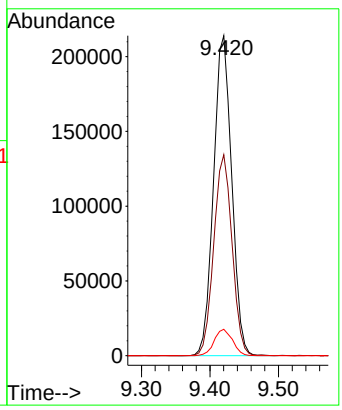


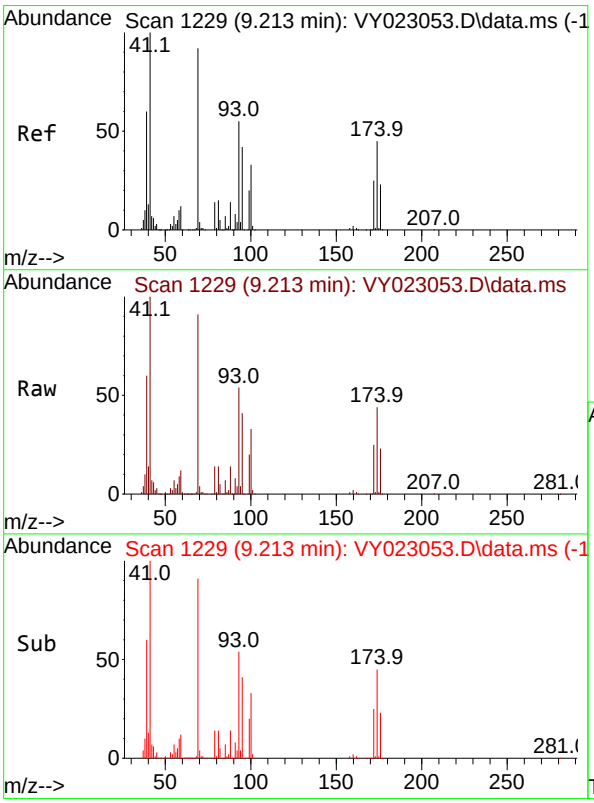

#47
Bromodichloromethane
Concen: 49.327 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 83 Resp: 393523

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.8 | 50.2 | 75.4 |
| 127 | 8.3 | 6.6 | 10.0 |

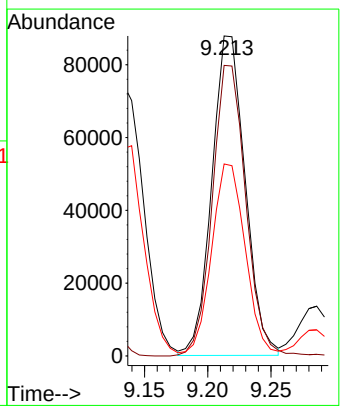


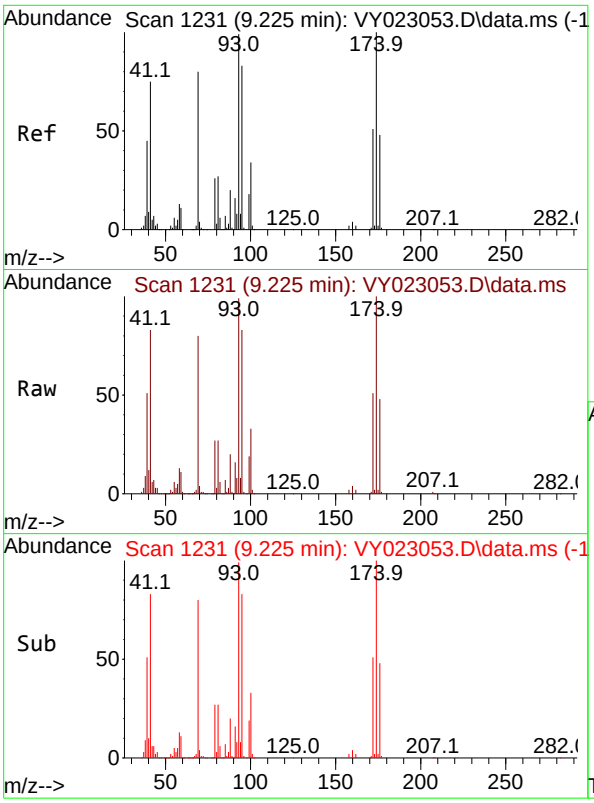




#48
Methyl methacrylate
Concen: 51.958 ug/l
RT: 9.213 min Scan# 1229
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 41 Resp: 160792

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 91.5 | 73.2 | 109.8 |
| 39 | 58.7 | 47.0 | 70.4 |



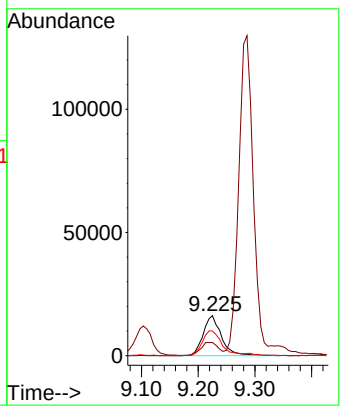


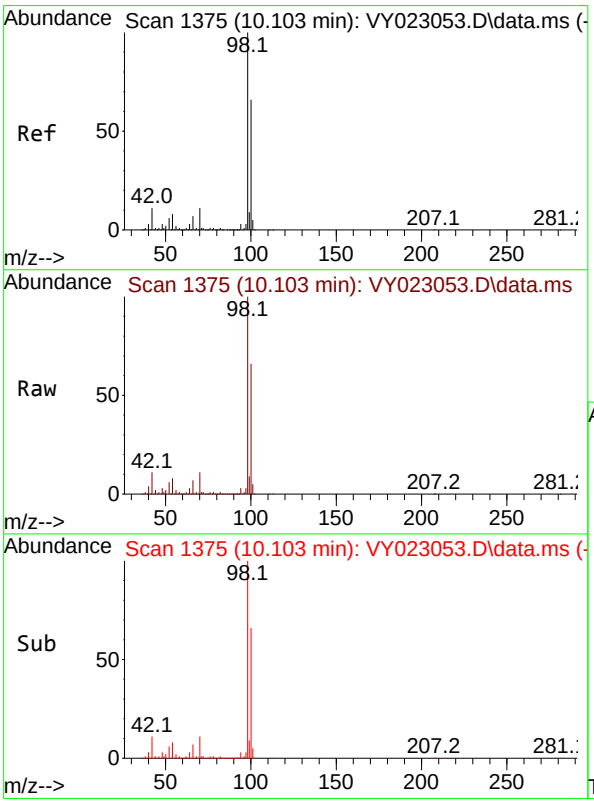

#49
1,4-Dioxane
Concen: 997.124 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 88 Resp: 36249

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 30.4 | 24.3 | 36.5 |
| 58 | 69.2 | 55.4 | 83.0 |

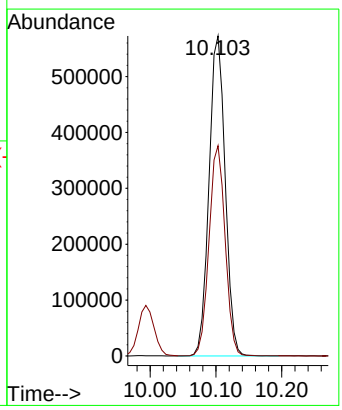


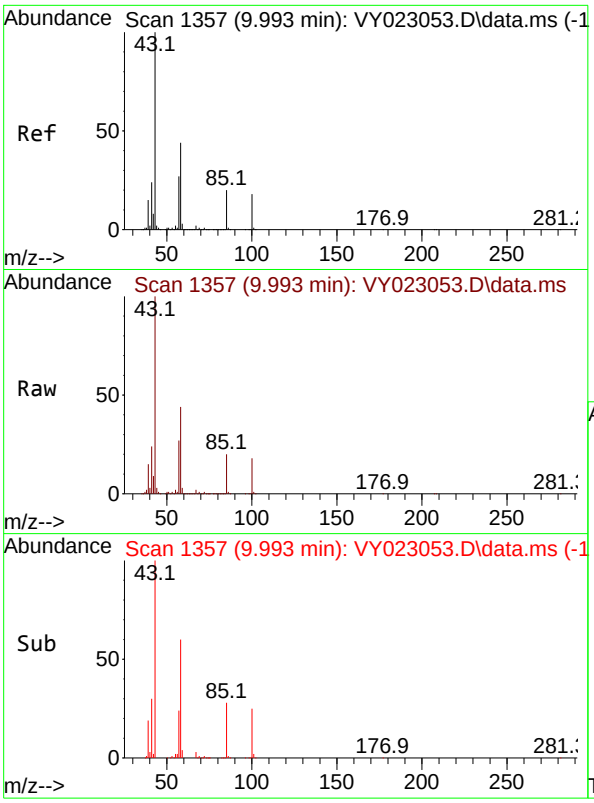




#50
Toluene-d8
Concen: 48.899 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 98 Resp: 979082

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.4 | 52.3 | 78.5 |



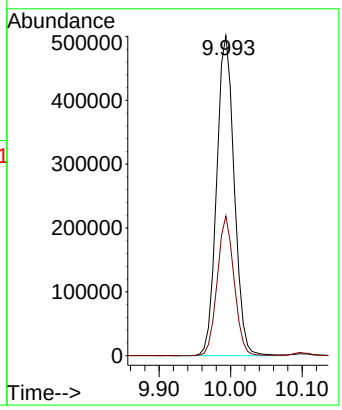


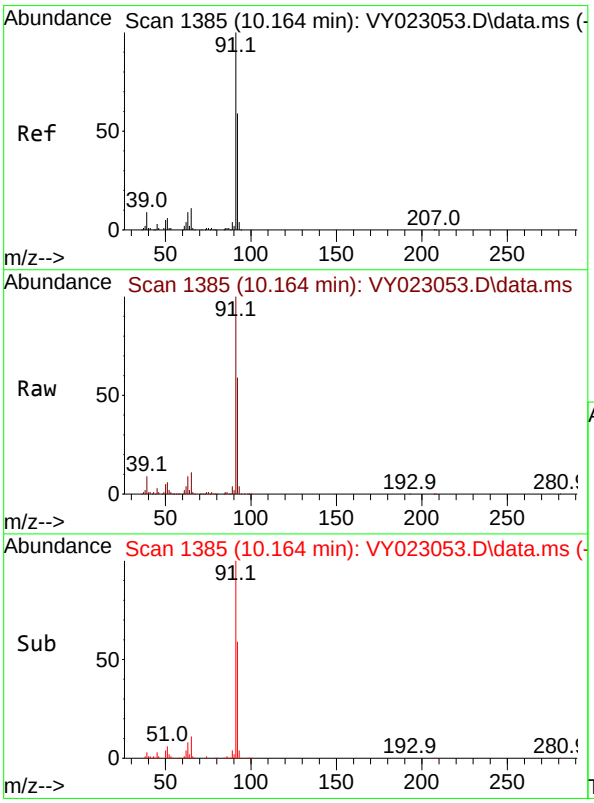

#51
4-Methyl-2-Pentanone
Concen: 255.710 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 43 Resp: 853025

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 41.9 | 33.5 | 50.3 |

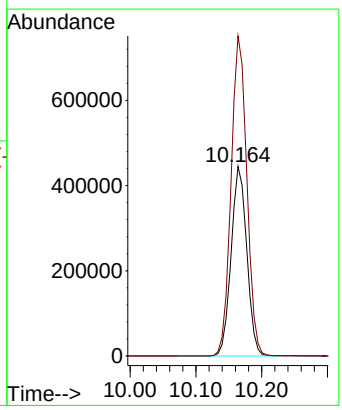


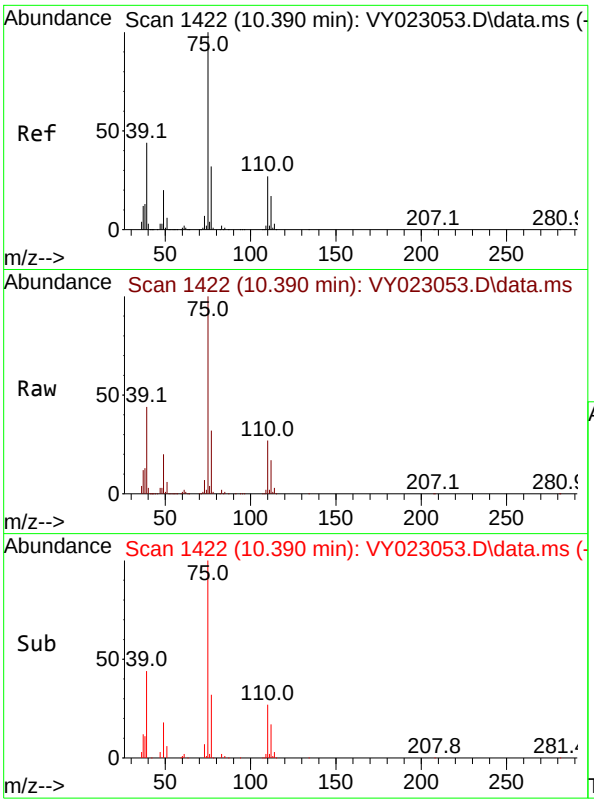




#52
Toluene
Concen: 49.315 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 92 Resp: 735326

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 170.5 | 136.4 | 204.6 |



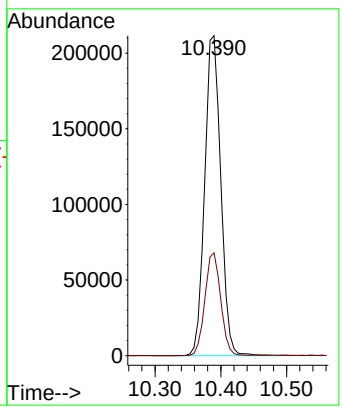


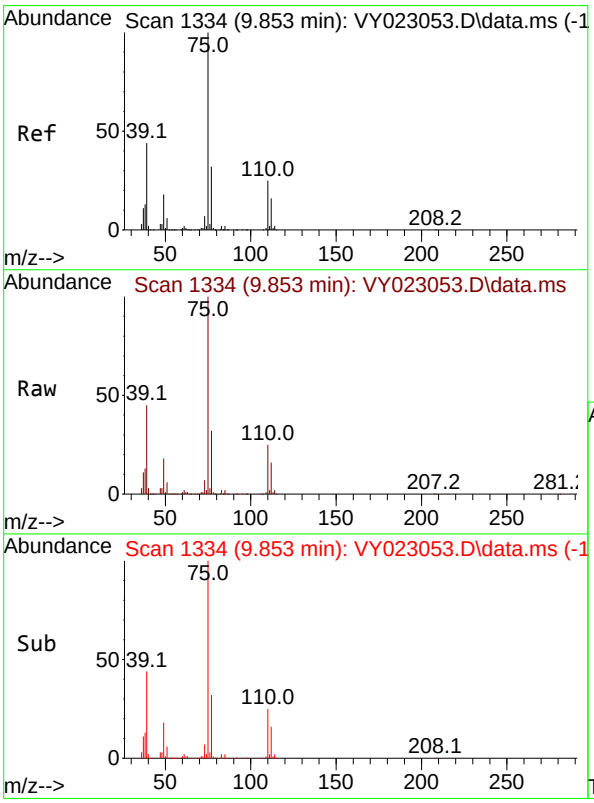

#53
t-1,3-Dichloropropene
Concen: 49.790 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 75 Resp: 359698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.1 | 25.7 | 38.5 |

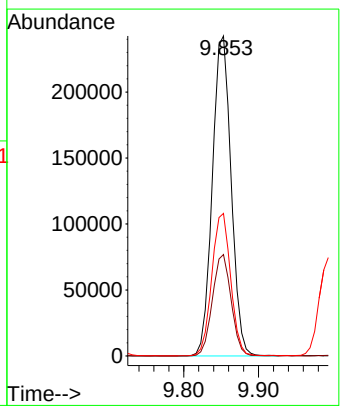


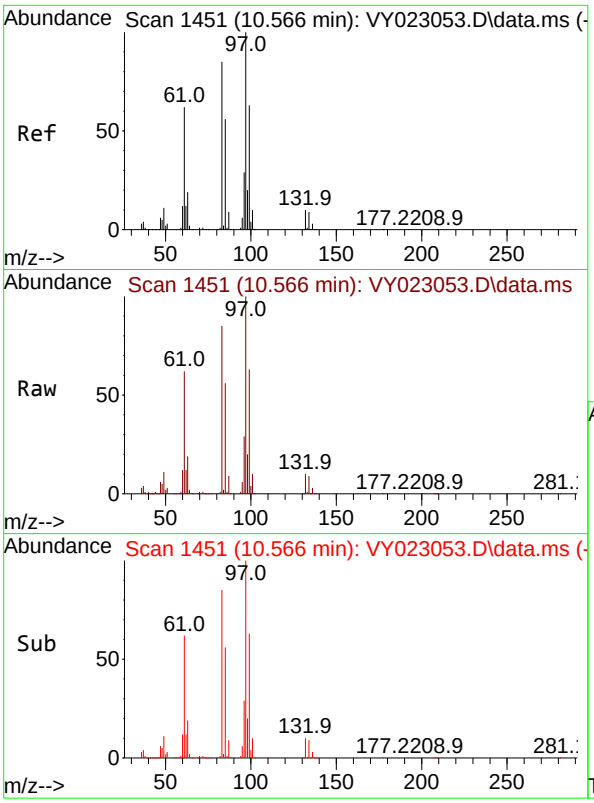




#54
cis-1,3-Dichloropropene
Concen: 49.731 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 75 Resp: 424834

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.7 | 25.4 | 38.0 |
| 39 | 44.5 | 35.6 | 53.4 |



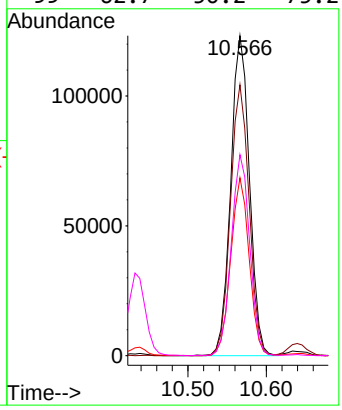


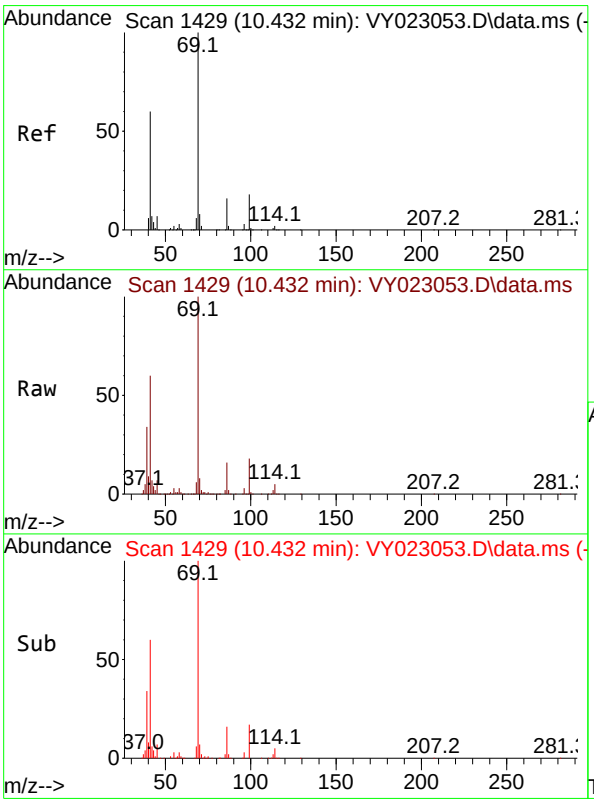

#55
1,1,2-Trichloroethane
Concen: 49.261 ug/l
RT: 10.566 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 97 Resp: 204368

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 84.6 | 67.7 | 101.5 |
| 85 | 55.6 | 44.5 | 66.7 |
| 99 | 62.7 | 50.2 | 75.2 |

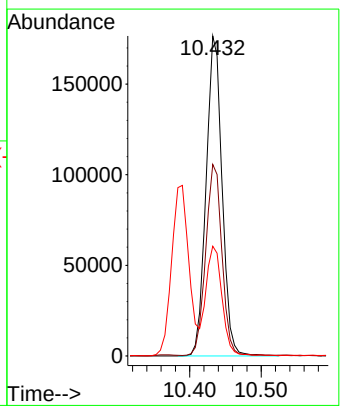


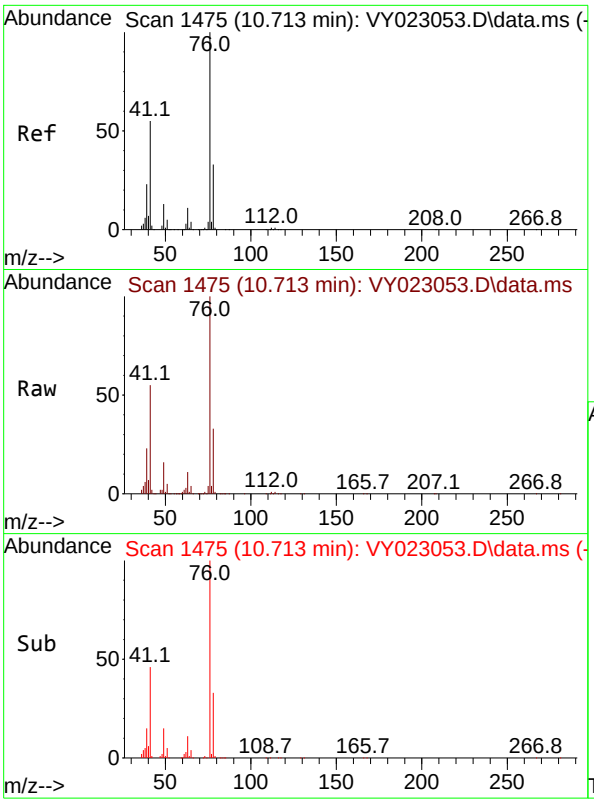




#56
Ethyl methacrylate
Concen: 51.576 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 69 Resp: 273801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 60.7 | 48.6 | 72.8 |
| 39 | 33.7 | 27.0 | 40.4 |



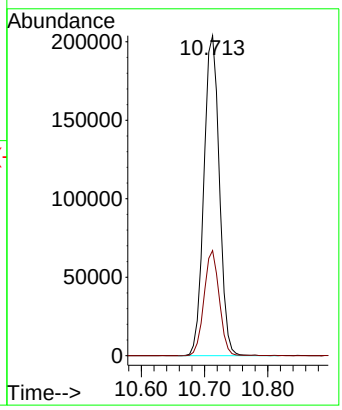


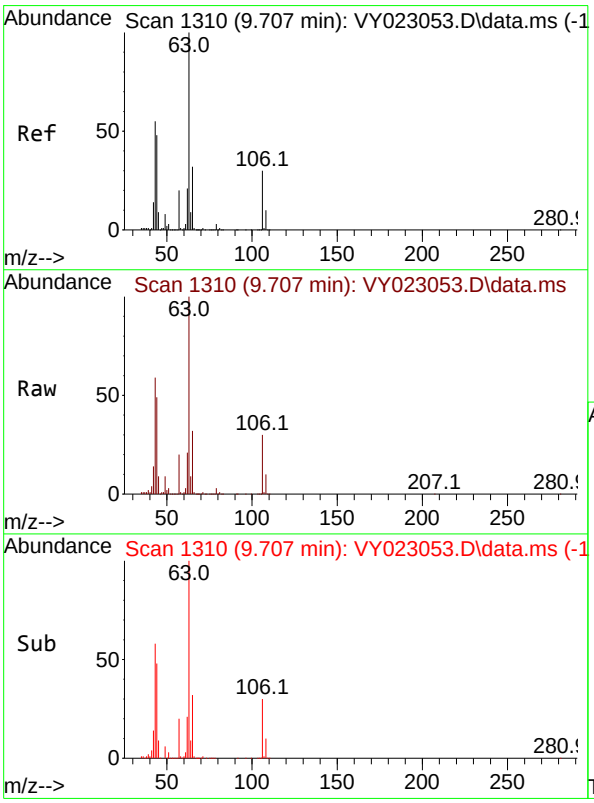

#57
1,3-Dichloropropane
Concen: 49.249 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 76 Resp: 346510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.5 | 26.0 | 39.0 |

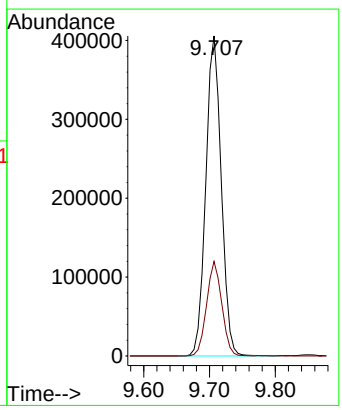


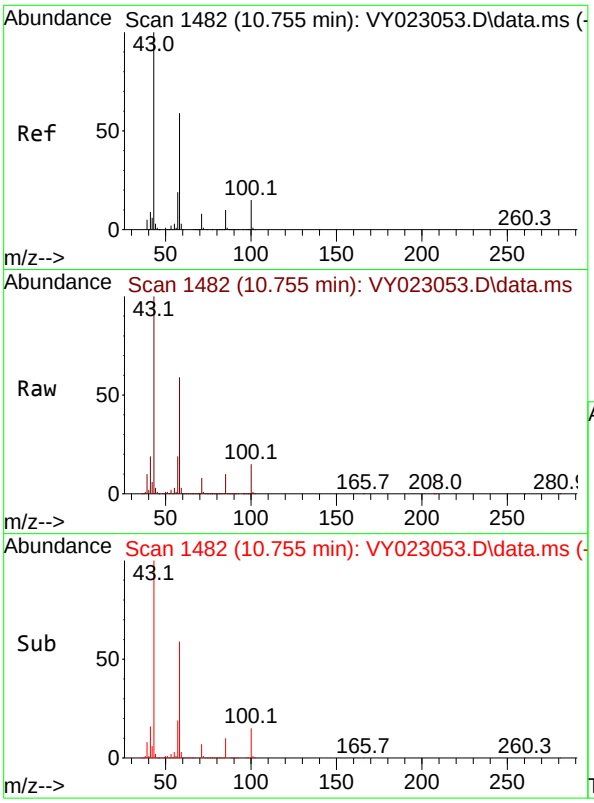




#58
2-Chloroethyl Vinyl ether
Concen: 264.906 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 63 Resp: 663351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 29.0 | 23.2 | 34.8 |



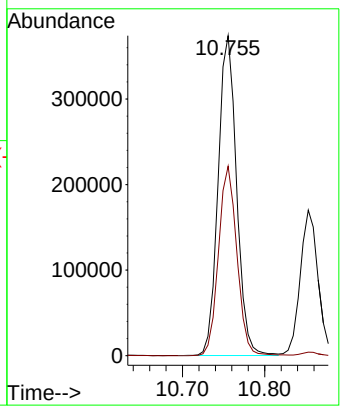


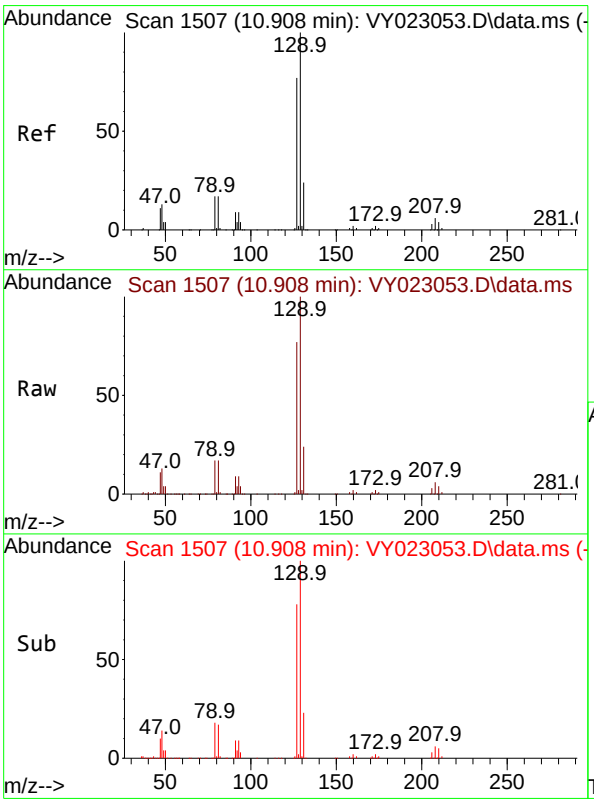

#59
2-Hexanone
Concen: 257.194 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 43 Resp: 584223

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 59.0 | 29.5 | 88.5 |

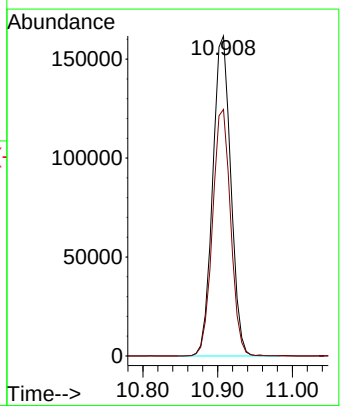


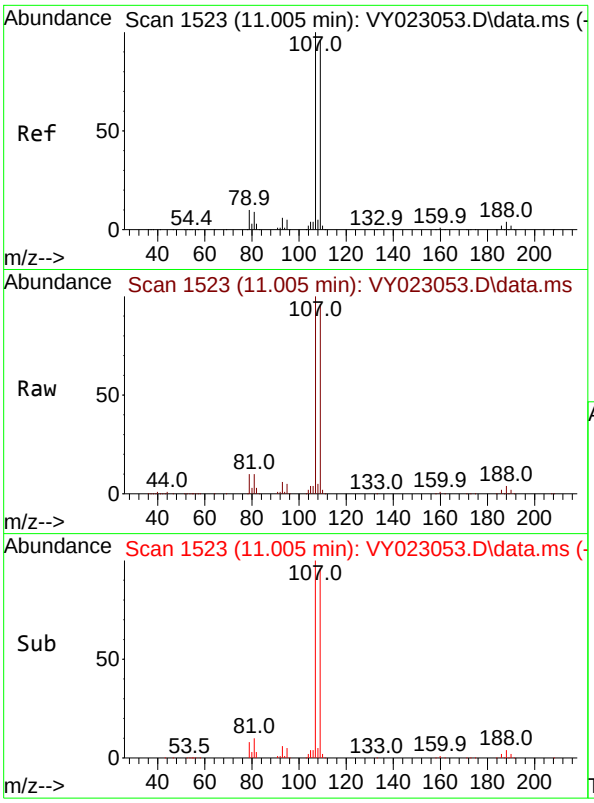




#60
Dibromochloromethane
Concen: 49.719 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:129 Resp: 272171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.0 | 38.5 | 115.5 |



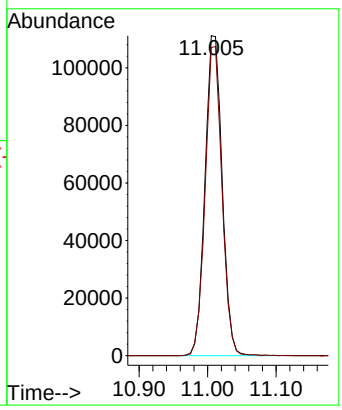


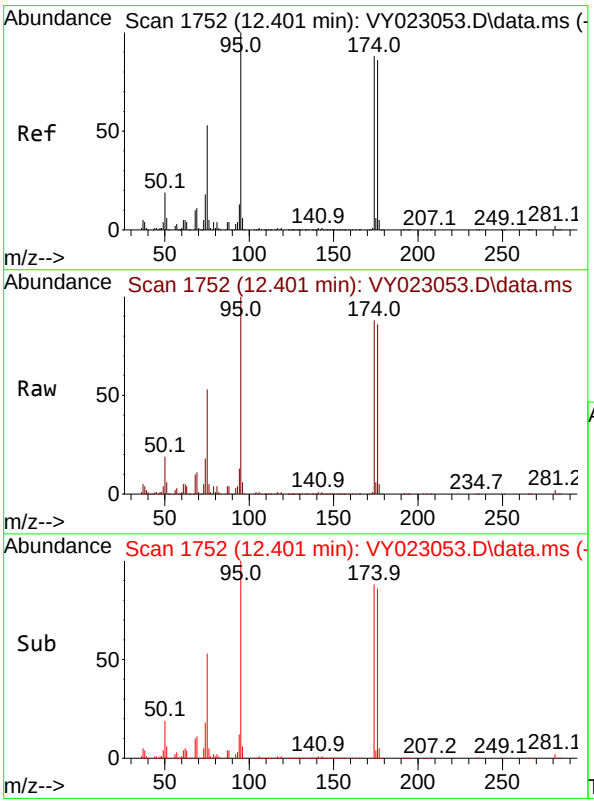

#61
1,2-Dibromoethane
Concen: 49.598 ug/l
RT: 11.005 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:107 Resp: 193398

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.5 | 75.6 | 113.4 |

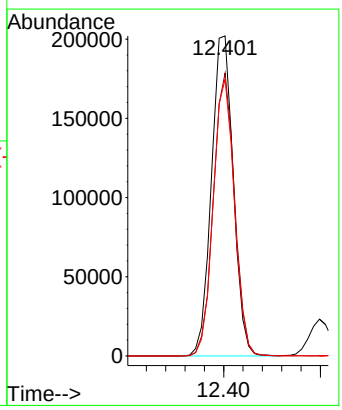


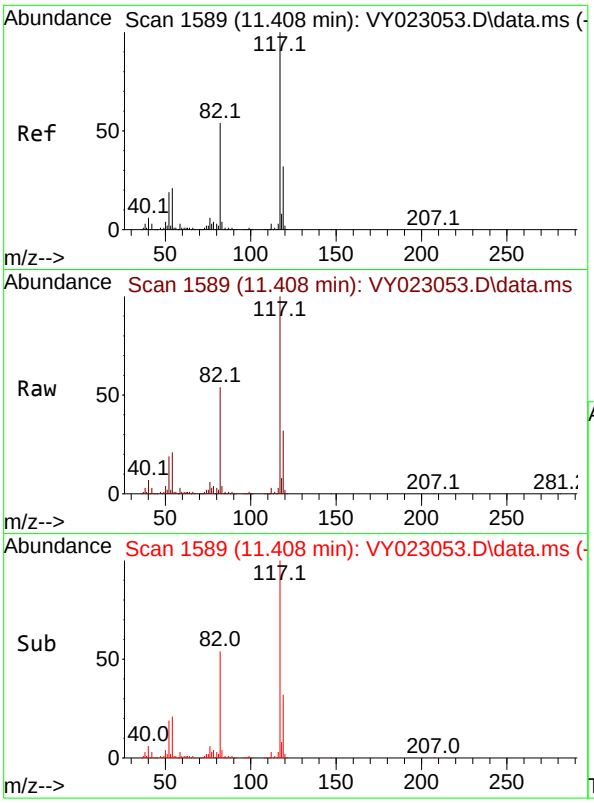




#62
4-Bromofluorobenzene
Concen: 49.194 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 95 Resp: 316770

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 85.8 | 0.0 | 171.6 |
| 176 | 83.8 | 0.0 | 167.6 |



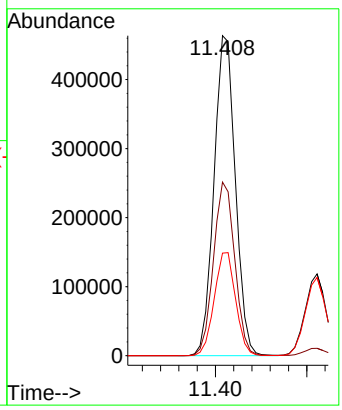


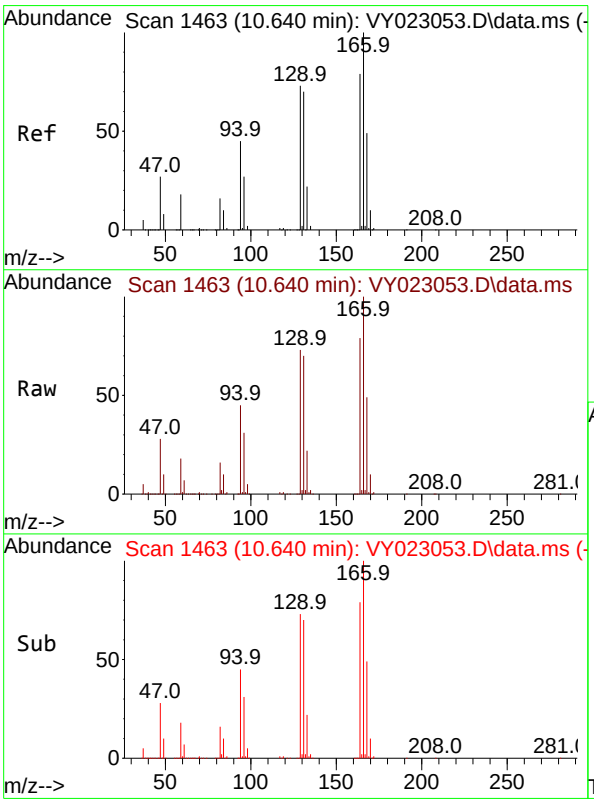

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:117 Resp: 751969

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.2 | 43.4 | 65.0 |
| 119 | 32.0 | 25.6 | 38.4 |

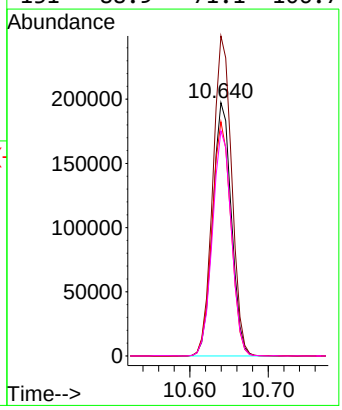


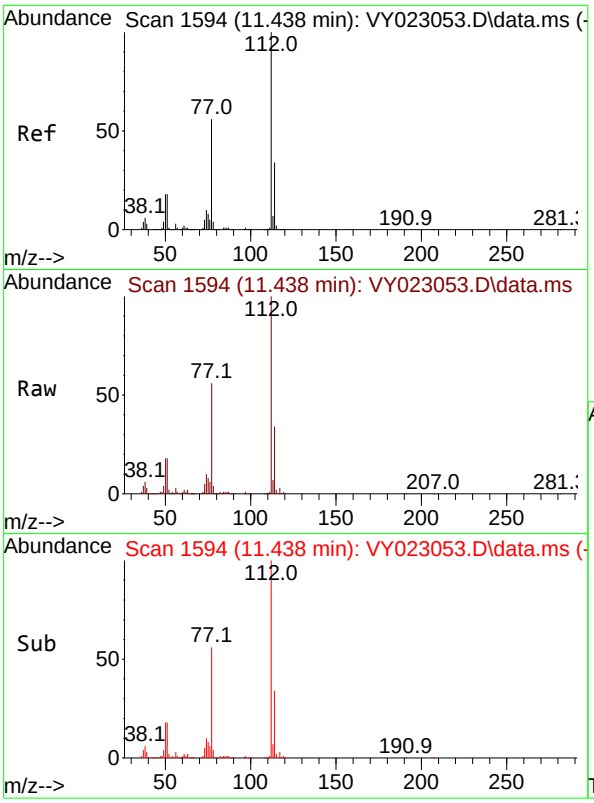




#64
Tetrachloroethene
Concen: 48.740 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:164 Resp: 327271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 126.4 | 101.1 | 151.7 |
| 129 | 92.5 | 74.0 | 111.0 |
| 131 | 88.9 | 71.1 | 106.7 |



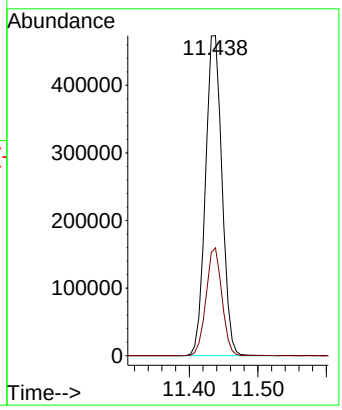


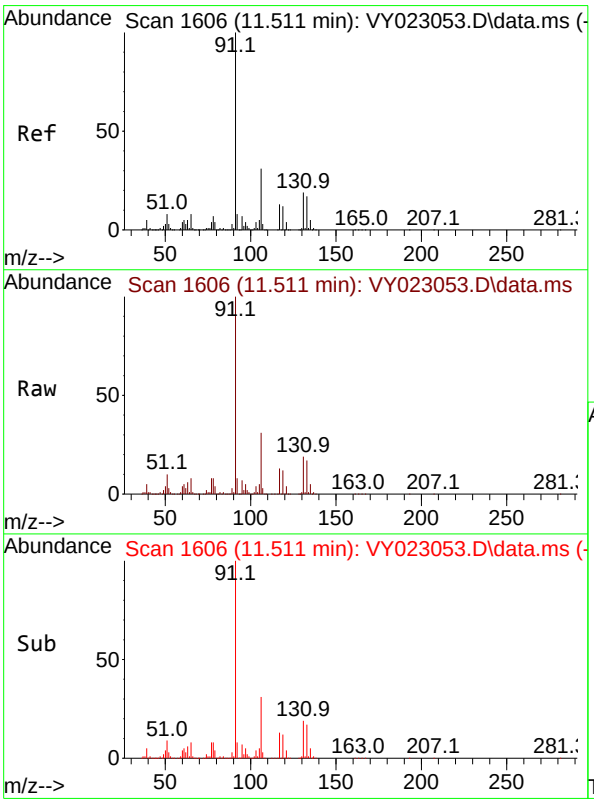

#65
Chlorobenzene
Concen: 48.920 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:112 Resp: 793490

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 33.7 | 27.0 | 40.4 |

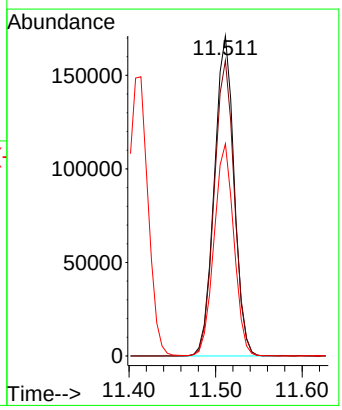


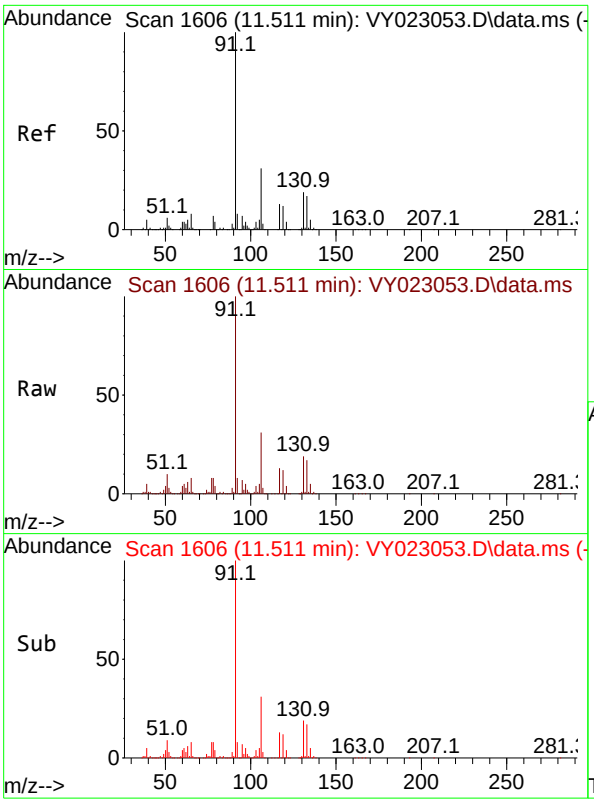




#66
1,1,1,2-Tetrachloroethane
Concen: 49.381 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:131 Resp: 271839

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 93.7 | 46.9 | 140.6 |
| 119 | 66.4 | 33.2 | 99.6 |



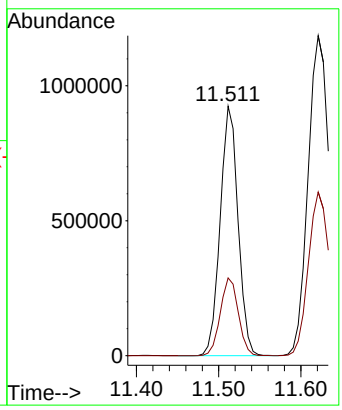


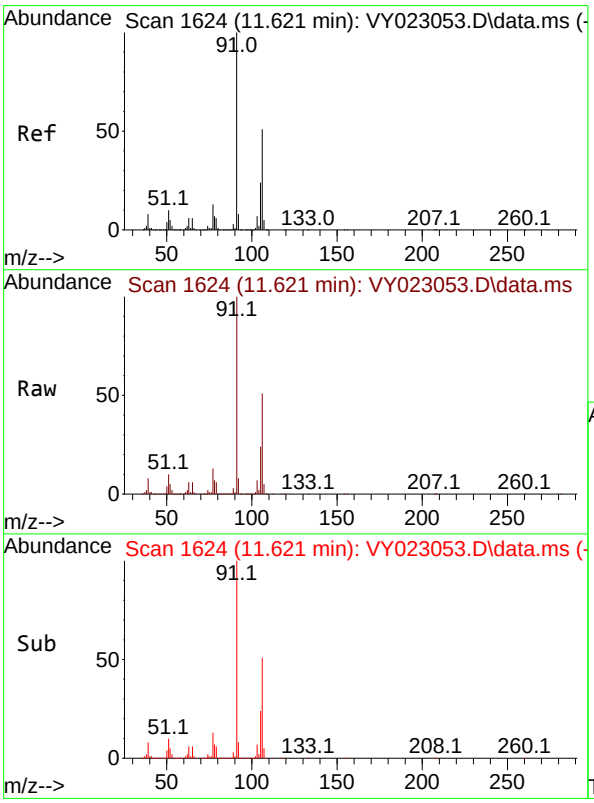

#67
Ethyl Benzene
Concen: 50.073 ug/l
RT: 11.511 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 91 Resp: 1397704

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.2 | 25.0 | 37.4 |

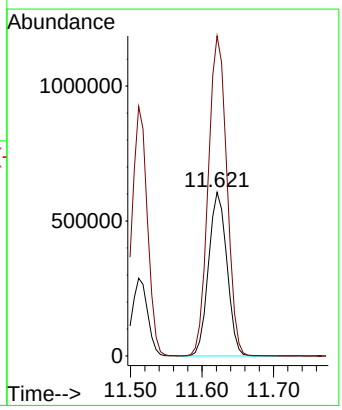


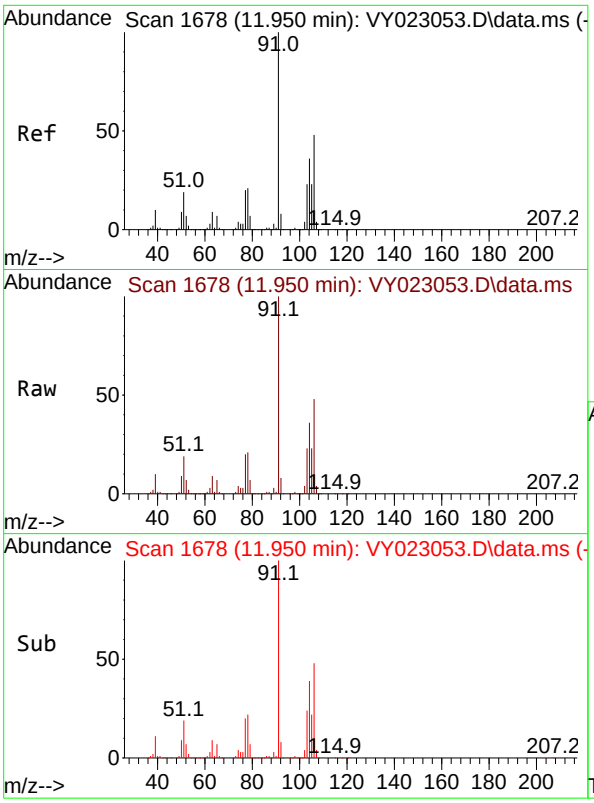




#68
m/p-Xylenes
Concen: 99.103 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:106 Resp: 1080401

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 198.3 | 158.6 | 238.0 |



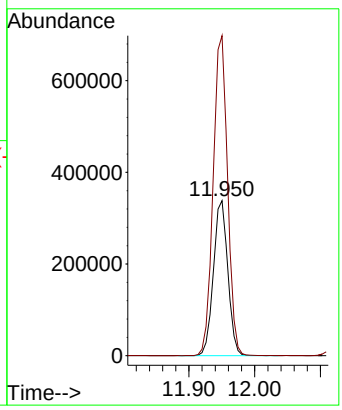


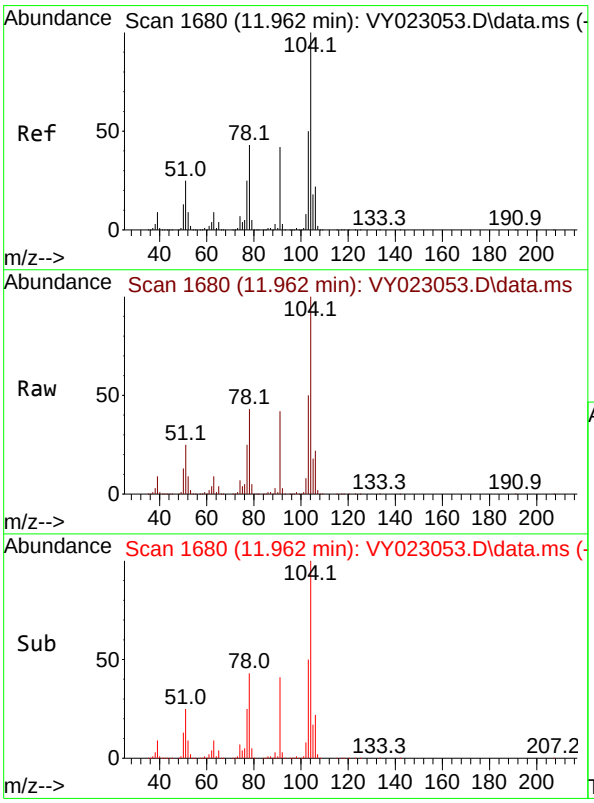

#69
o-Xylene
Concen: 50.536 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:106 Resp: 516002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 206.3 | 103.2 | 309.4 |

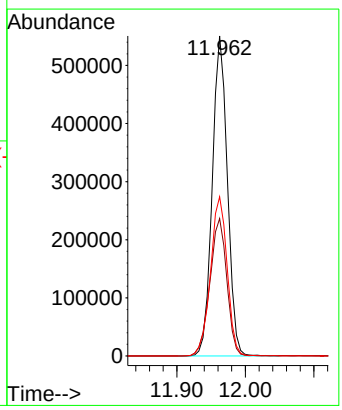


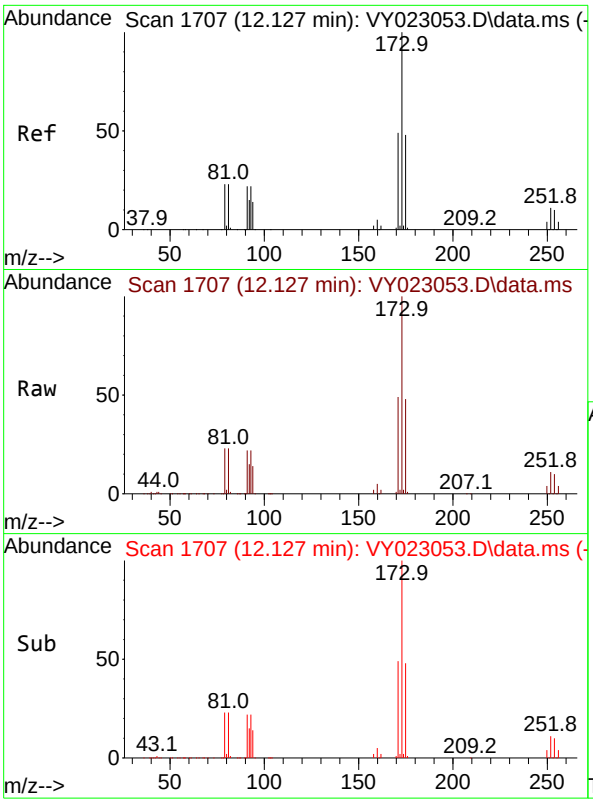




#70
Styrene
Concen: 50.569 ug/l
RT: 11.962 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:104 Resp: 844409

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 48.1 | 38.5 | 57.7 |
| 103 | 54.6 | 43.7 | 65.5 |



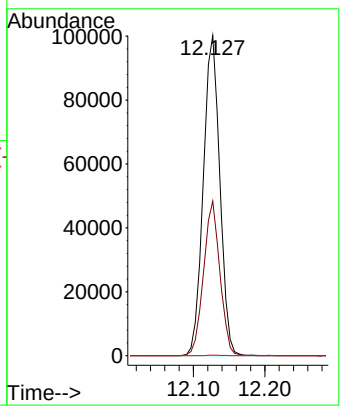


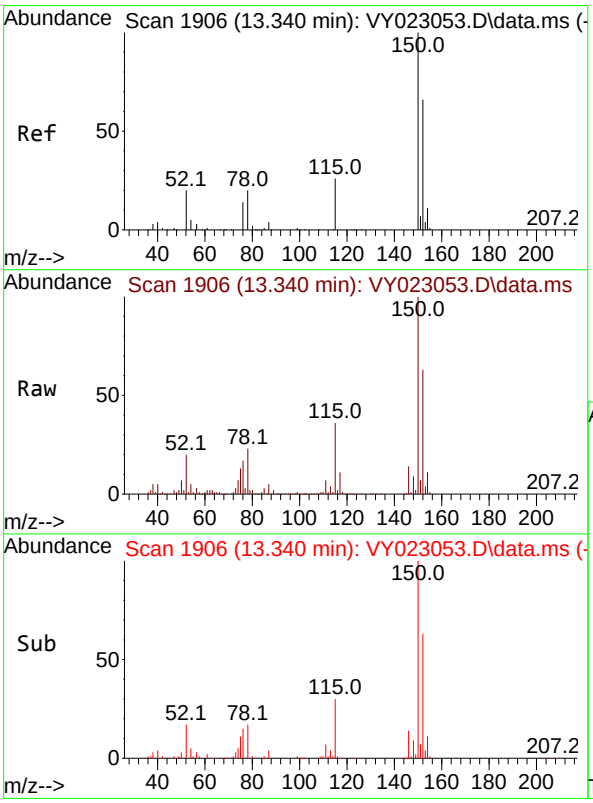

#71
Bromoform
Concen: 49.969 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:173 Resp: 160769

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.8 | 23.9 | 71.7 |
| 254 | 0.1 | 0.1 | 0.1# |

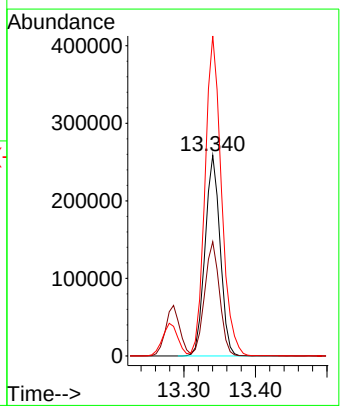


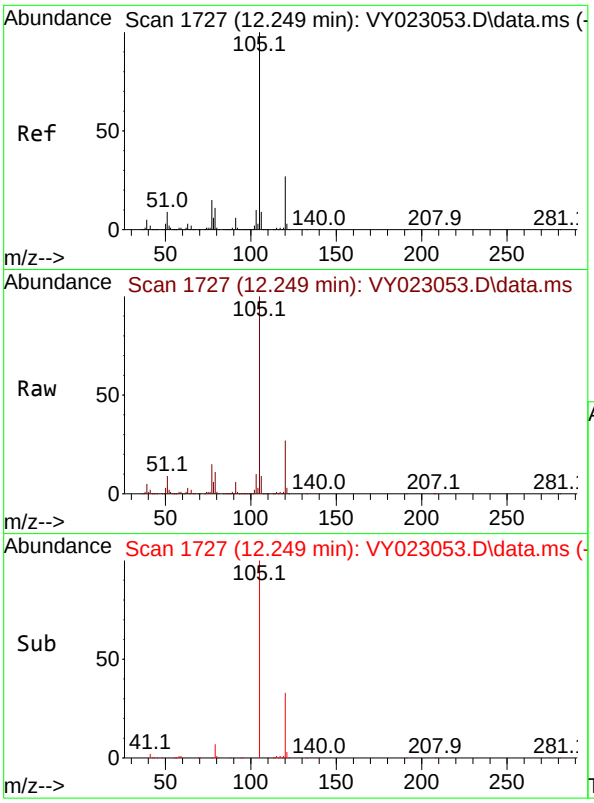




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:152 Resp: 377839

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 56.4 | 28.2 | 84.6 |
| 150 | 174.0 | 0.0 | 348.0 |



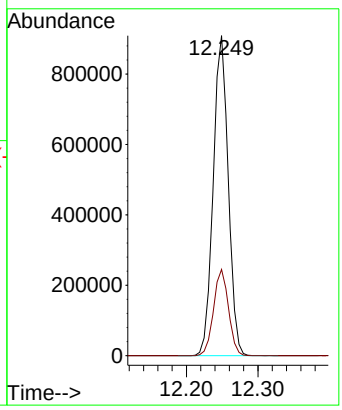


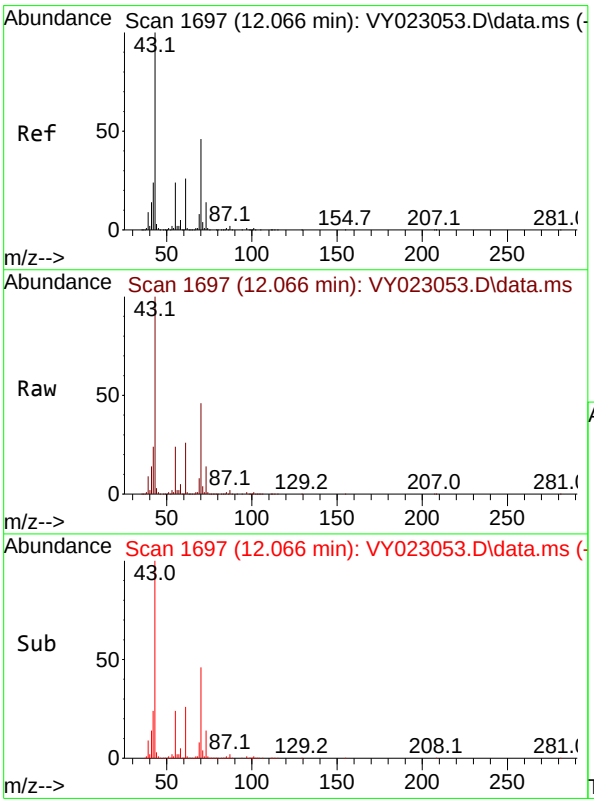

#73
Isopropylbenzene
Concen: 49.660 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:105 Resp: 1324313

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.8 | 13.4 | 40.2 |

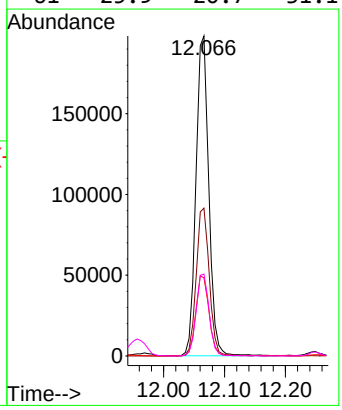


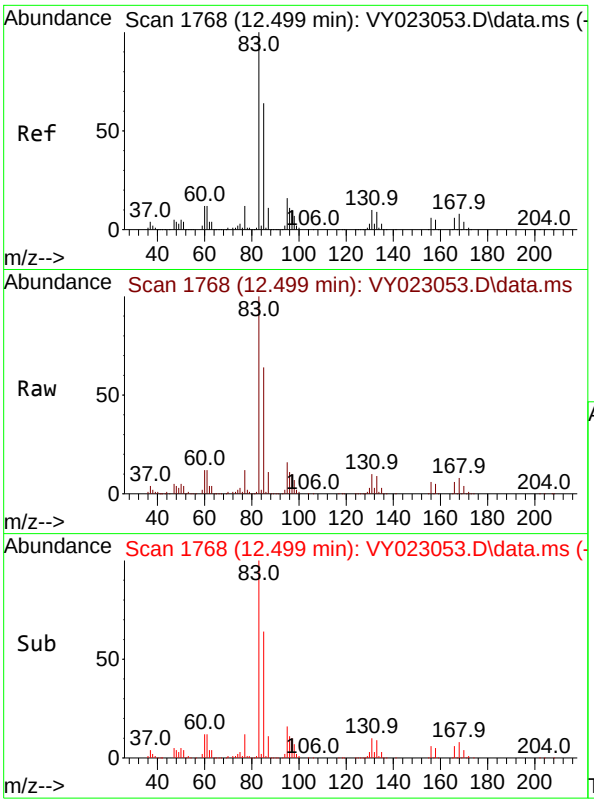




#74
N-amyl acetate
Concen: 51.264 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 43 Resp: 289914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 46.9 | 37.5 | 56.3 |
| 55 | 25.9 | 20.7 | 31.1 |
| 61 | 25.9 | 20.7 | 31.1 |



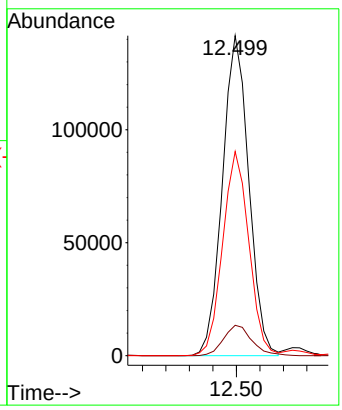


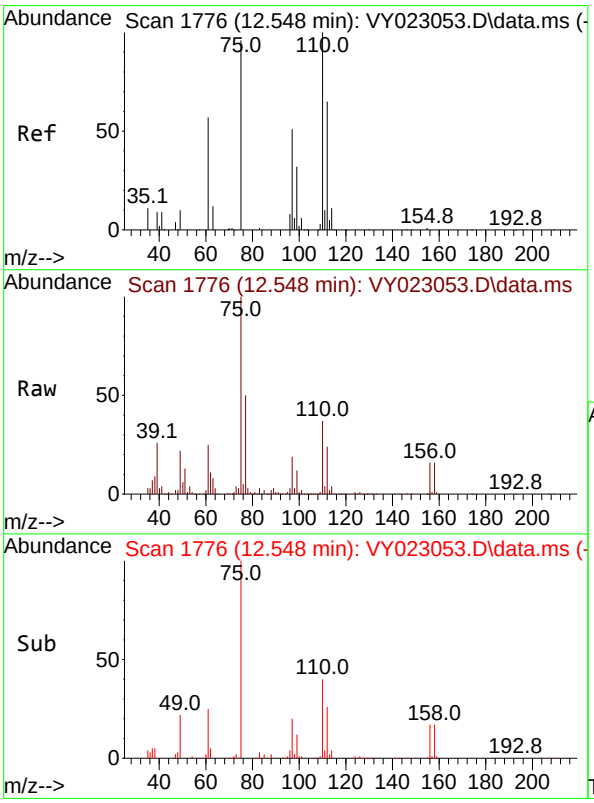

#75
1,1,2,2-Tetrachloroethane
Concen: 48.503 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 83 Resp: 220853

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.2 | 5.1 | 15.3 |
| 85 | 63.5 | 31.8 | 95.3 |

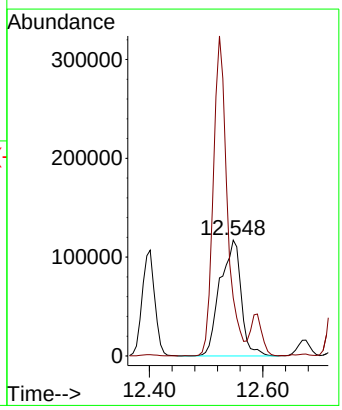


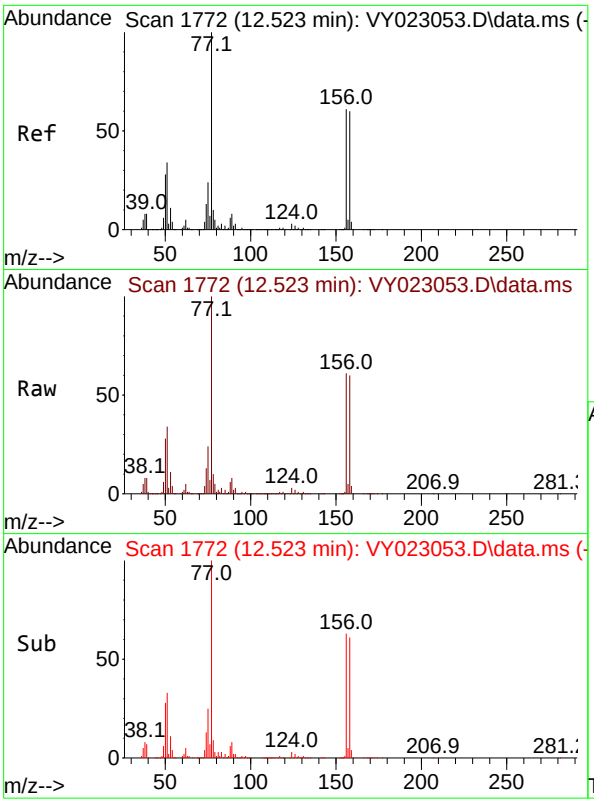




#76
1,2,3-Trichloropropane
Concen: 83.064 ug/l
RT: 12.548 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 75 Resp: 303093

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |



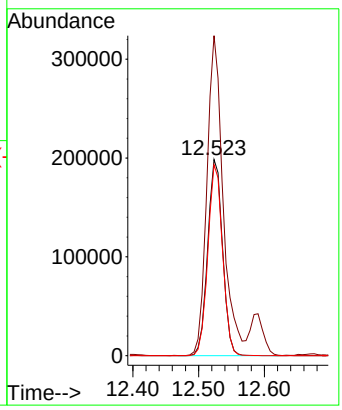


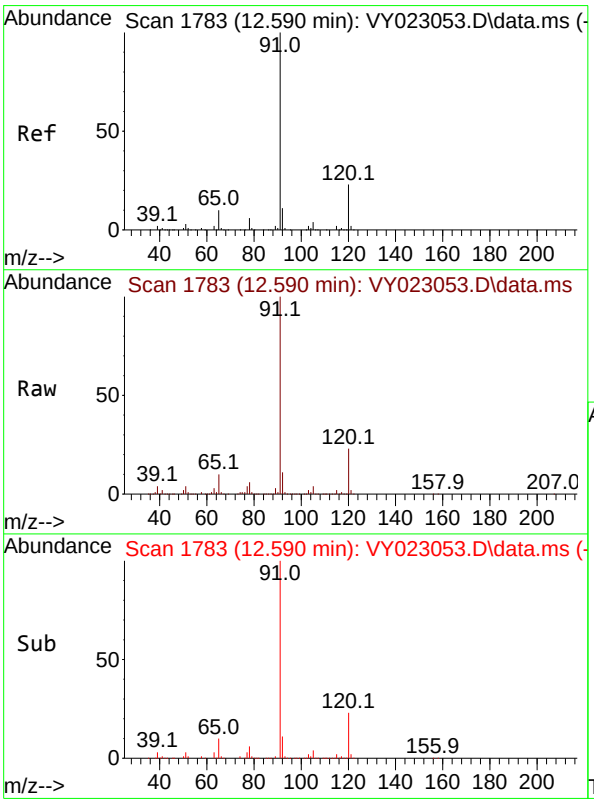

#77
Bromobenzene
Concen: 49.152 ug/l
RT: 12.523 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:156 Resp: 312706

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 176.3 | 88.1 | 264.4 |
| 158 | 96.0 | 48.0 | 144.0 |

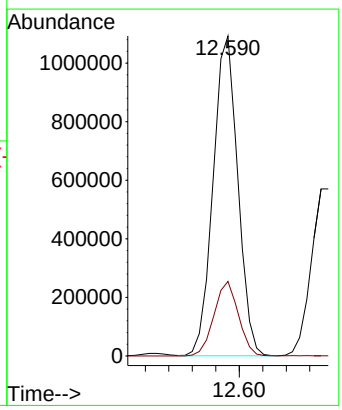


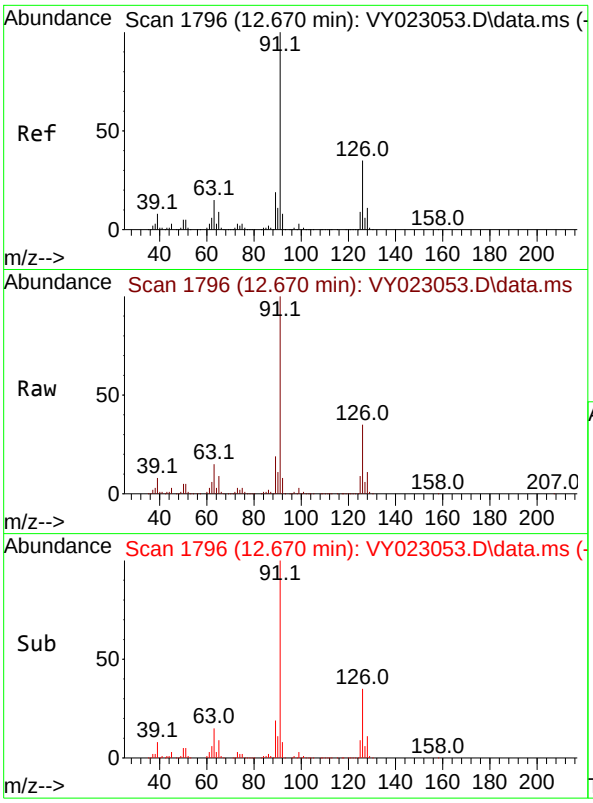




#78
n-propylbenzene
Concen: 50.186 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 91 Resp: 1593368

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 23.0 | 11.5 | 34.5 |



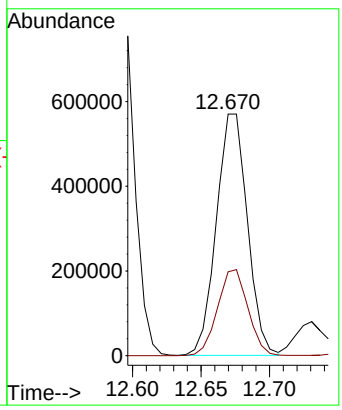


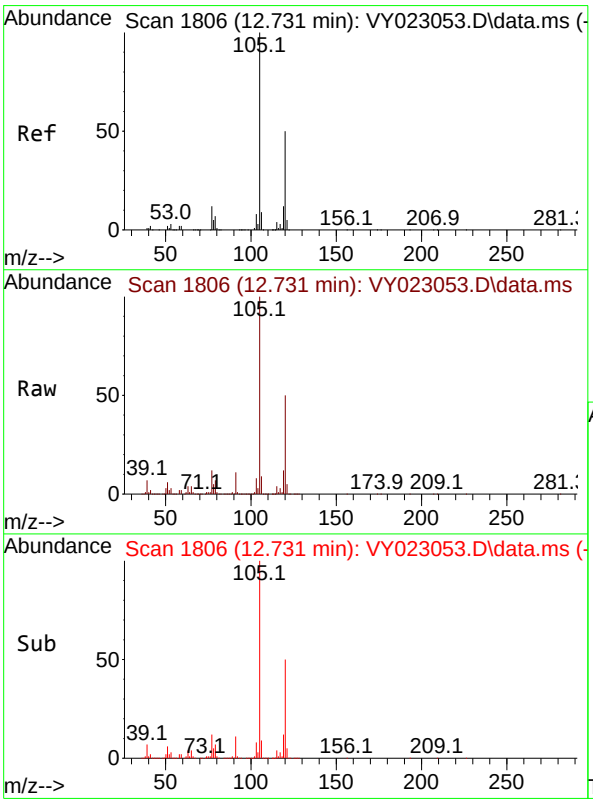

#79
2-Chlorotoluene
Concen: 49.473 ug/l
RT: 12.670 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 91 Resp: 899967

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.9 | 17.4 | 52.3 |

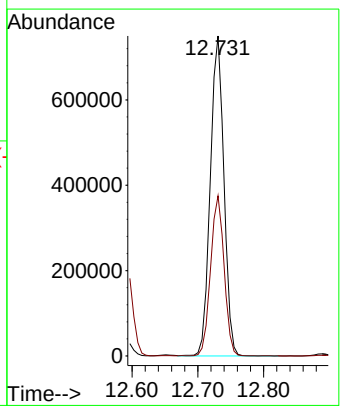


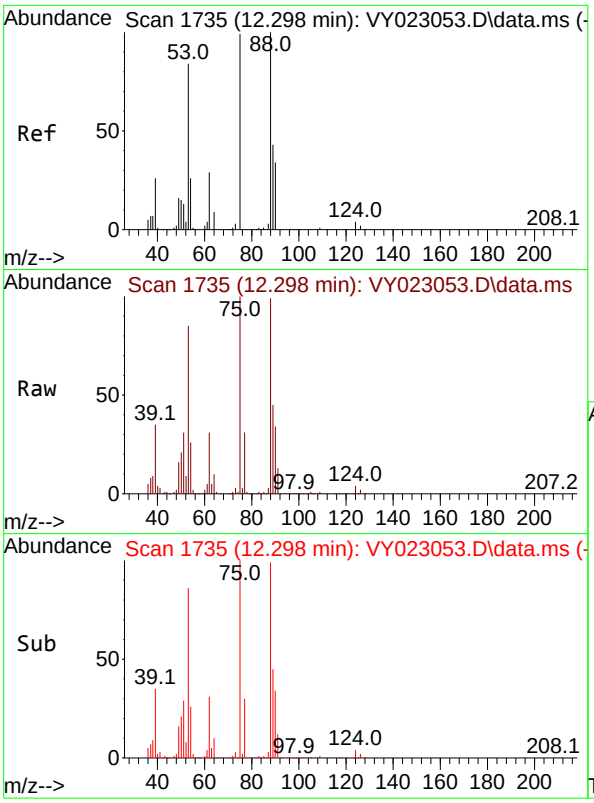




#80
1,3,5-Trimethylbenzene
Concen: 50.126 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:105 Resp: 1080333

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.6 | 24.8 | 74.4 |



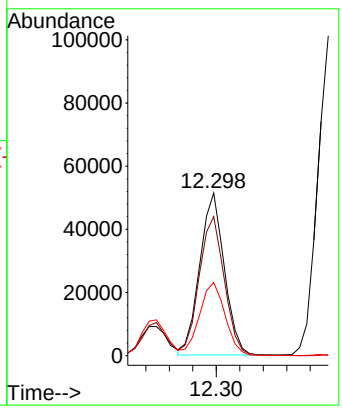


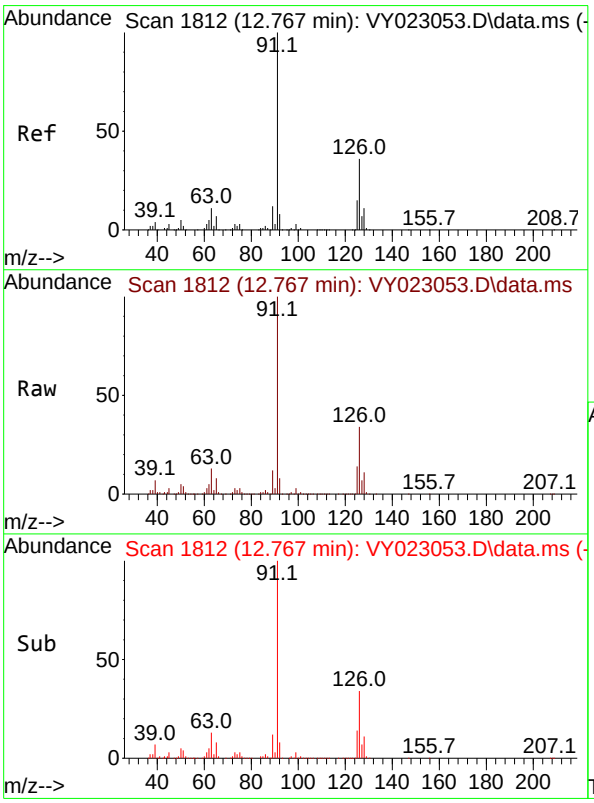

#81
trans-1,4-Dichloro-2-butene
Concen: 49.500 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 75 Resp: 74567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 88.5 | 70.8 | 106.2 |
| 89 | 47.6 | 38.1 | 57.1 |

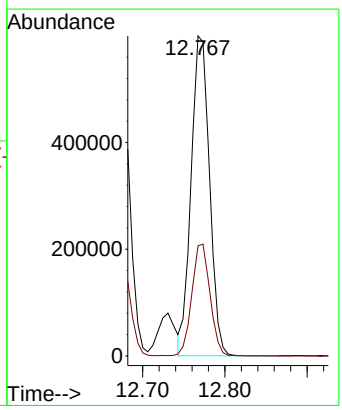


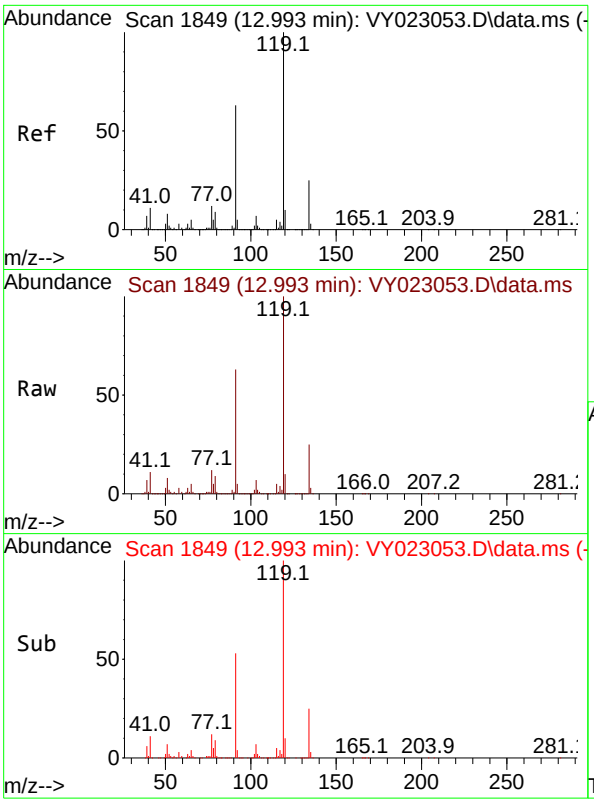




#82
4-Chlorotoluene
Concen: 49.299 ug/l
RT: 12.767 min Scan# 1812
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 91 Resp: 930329

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.7 | 17.3 | 52.0 |



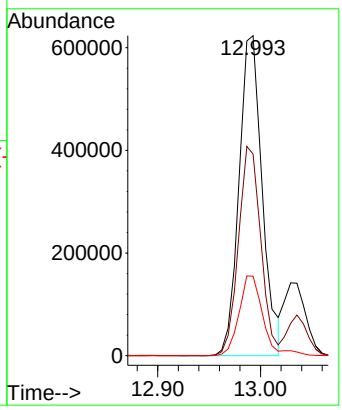


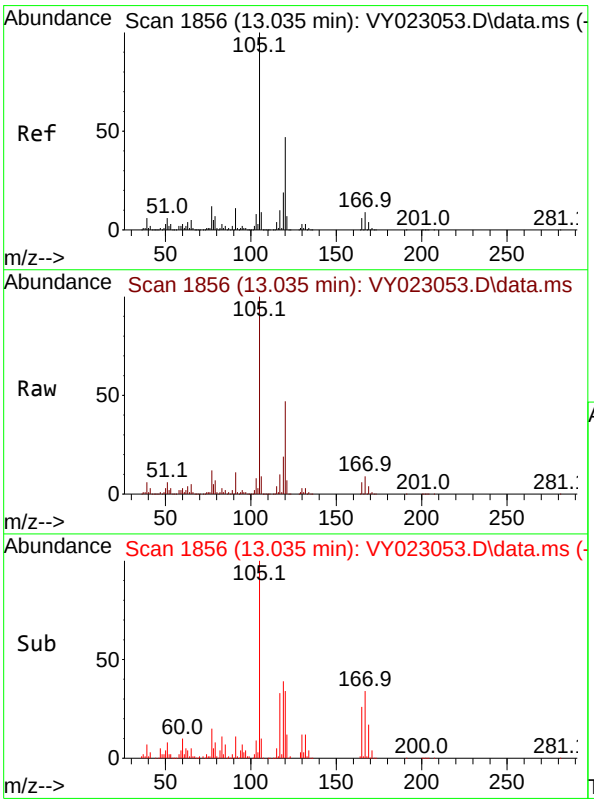

#83
tert-Butylbenzene
Concen: 50.244 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:119 Resp: 978031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 63.2 | 31.6 | 94.8 |
| 134 | 25.8 | 12.9 | 38.7 |

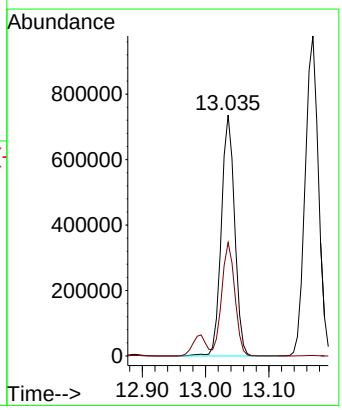


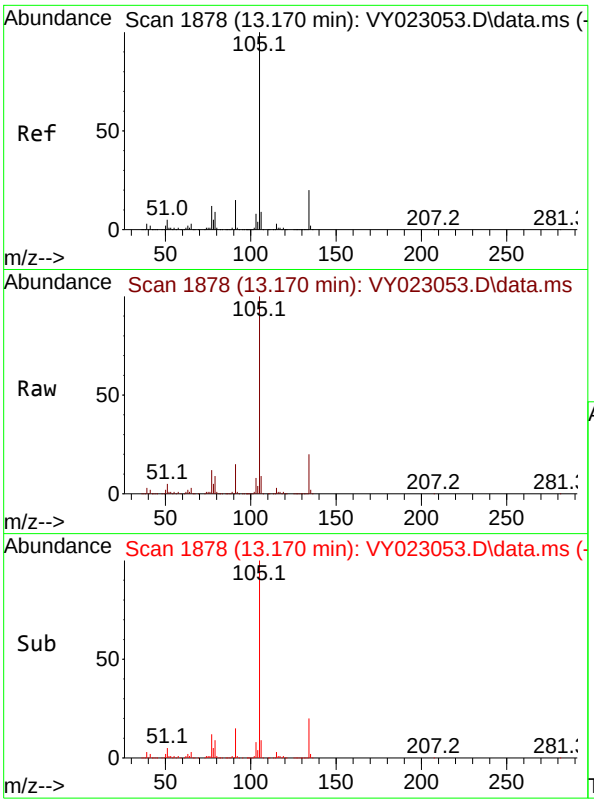




#84
1,2,4-Trimethylbenzene
Concen: 49.963 ug/l
RT: 13.035 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:105 Resp: 1071926

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.0 | 23.0 | 69.0 |



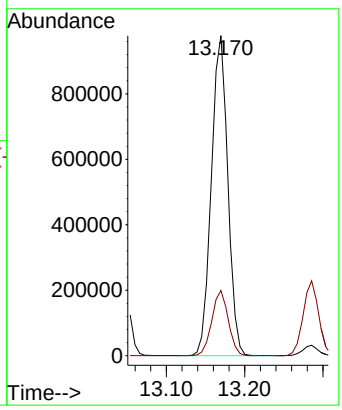


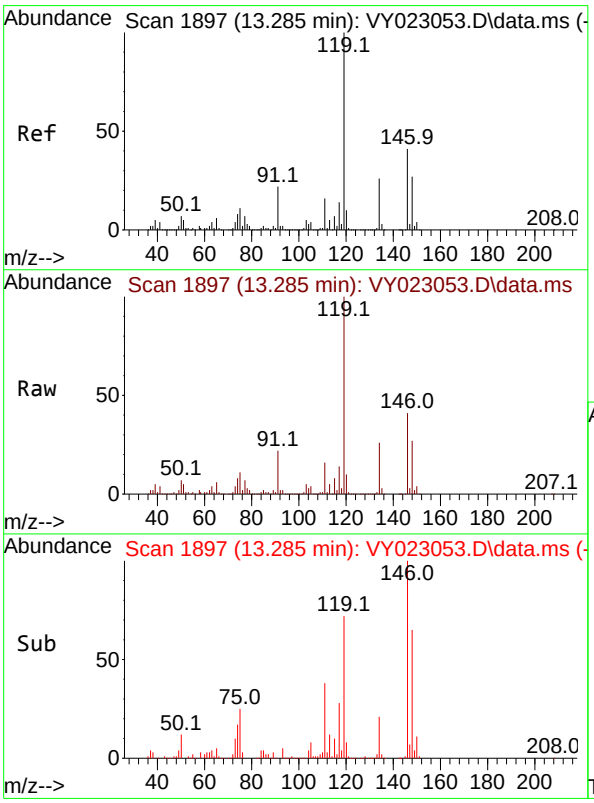

#85
sec-Butylbenzene
Concen: 49.854 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:105 Resp: 1425553

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.3 | 10.2 | 30.4 |

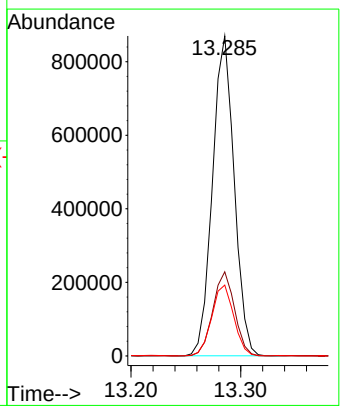


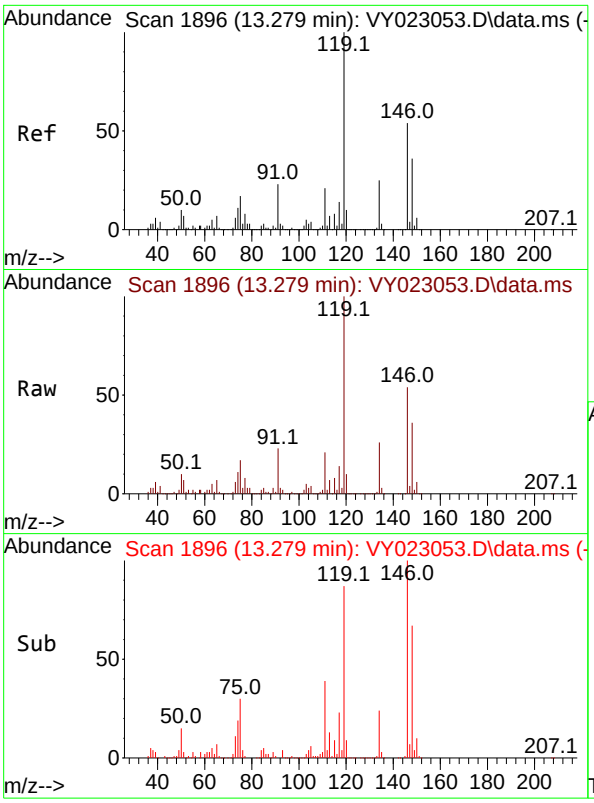




#86
p-Isopropyltoluene
Concen: 50.417 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:119 Resp: 1196645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.4 | 13.2 | 39.6 |
| 91 | 22.5 | 11.3 | 33.8 |



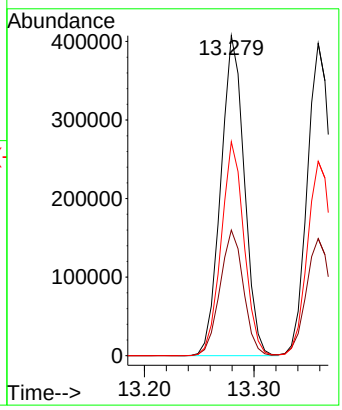


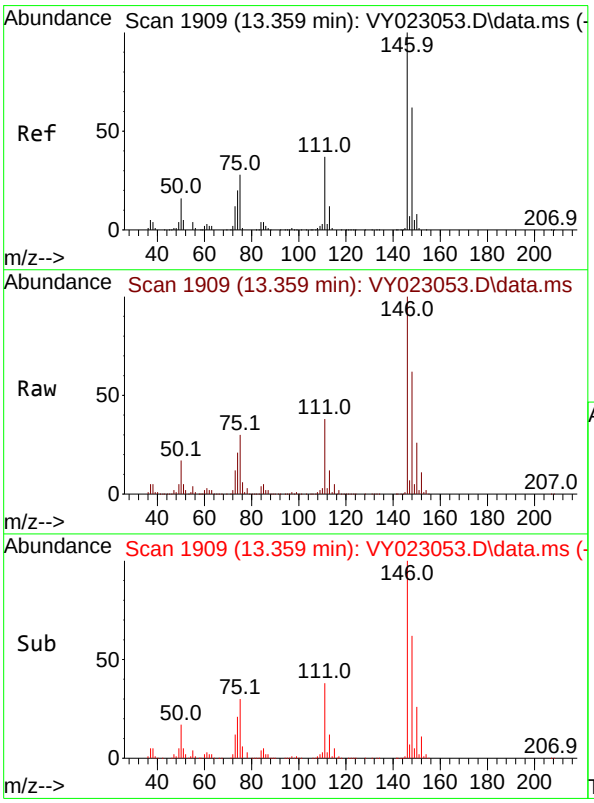

#87
1,3-Dichlorobenzene
Concen: 48.481 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:146 Resp: 608249

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.1 | 19.6 | 58.7 |
| 148 | 65.0 | 32.5 | 97.5 |

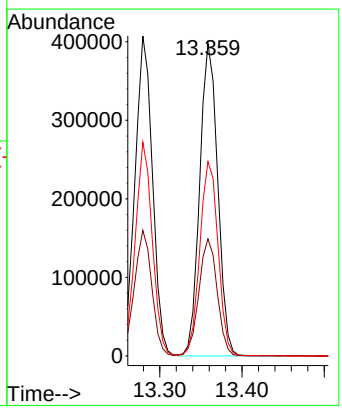


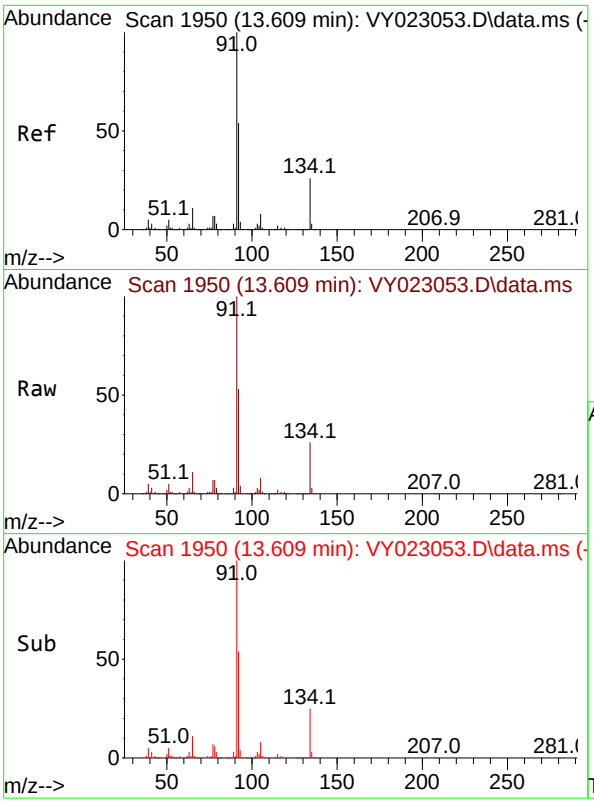




#88
1,4-Dichlorobenzene
Concen: 48.618 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:146 Resp: 605079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.1 | 19.1 | 57.1 |
| 148 | 63.1 | 31.6 | 94.7 |



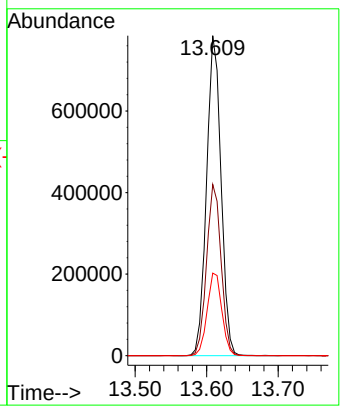


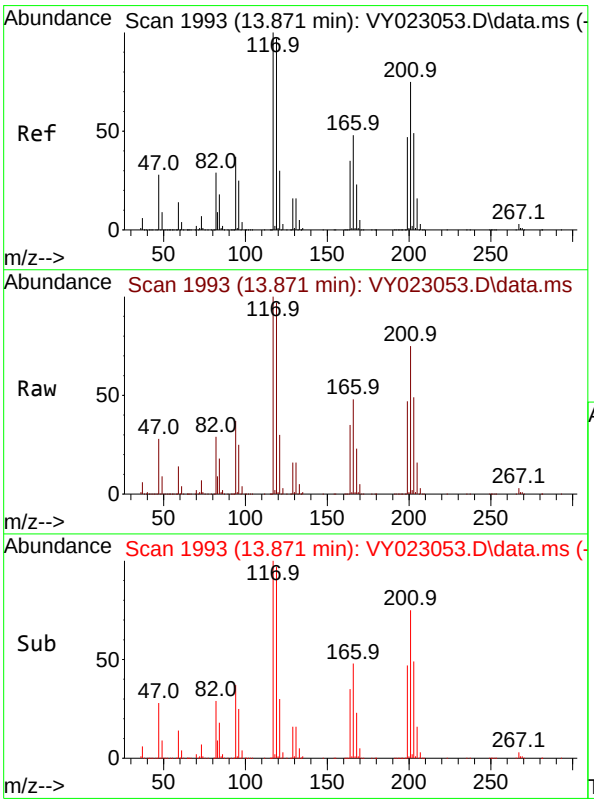

#89
n-Butylbenzene
Concen: 50.454 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 91 Resp: 1099864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.8 | 26.9 | 80.7 |
| 134 | 26.3 | 13.2 | 39.5 |

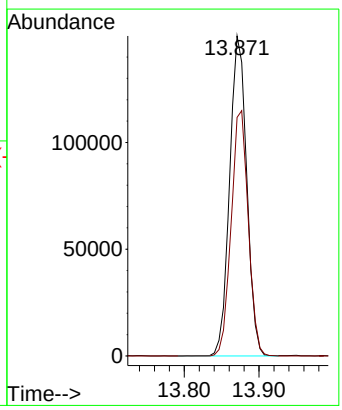


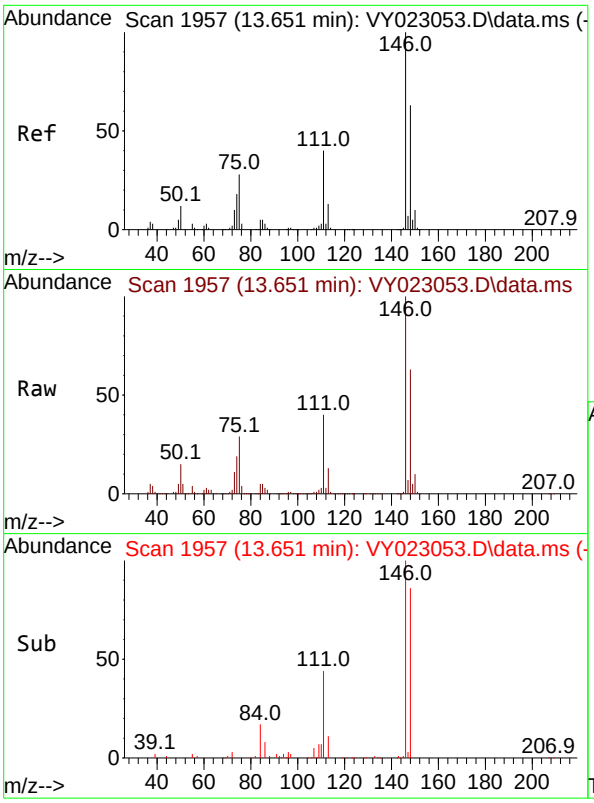




#90
Hexachloroethane
Concen: 48.984 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:117 Resp: 238005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 76.7 | 38.4 | 115.1 |



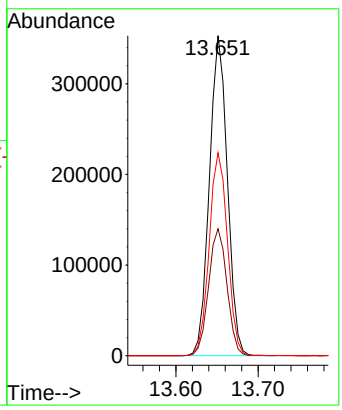


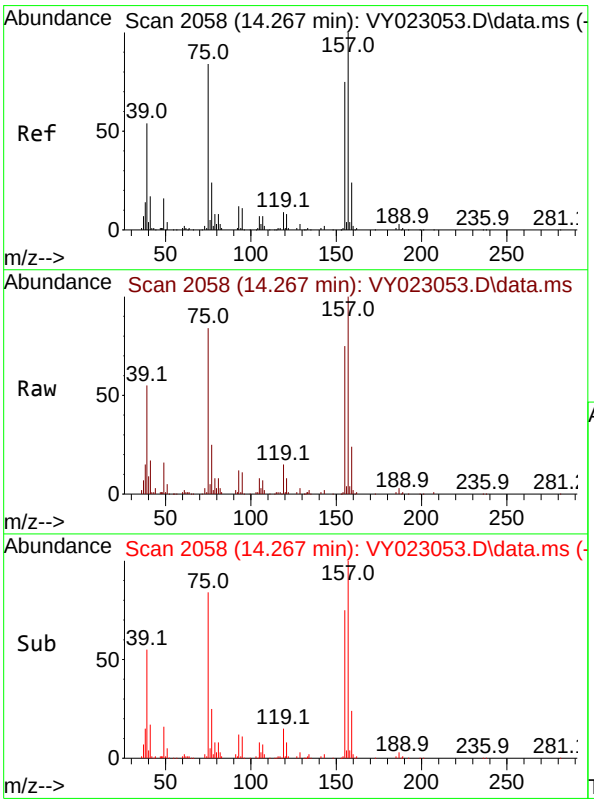

#91
1,2-Dichlorobenzene
Concen: 48.772 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:146 Resp: 536637

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.5 | 20.3 | 60.8 |
| 148 | 64.4 | 32.2 | 96.6 |

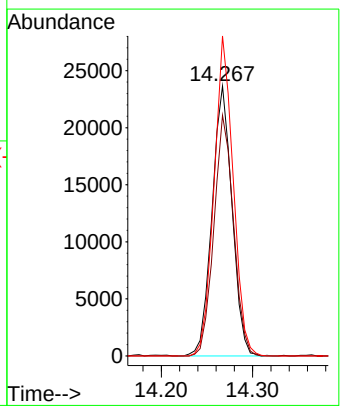


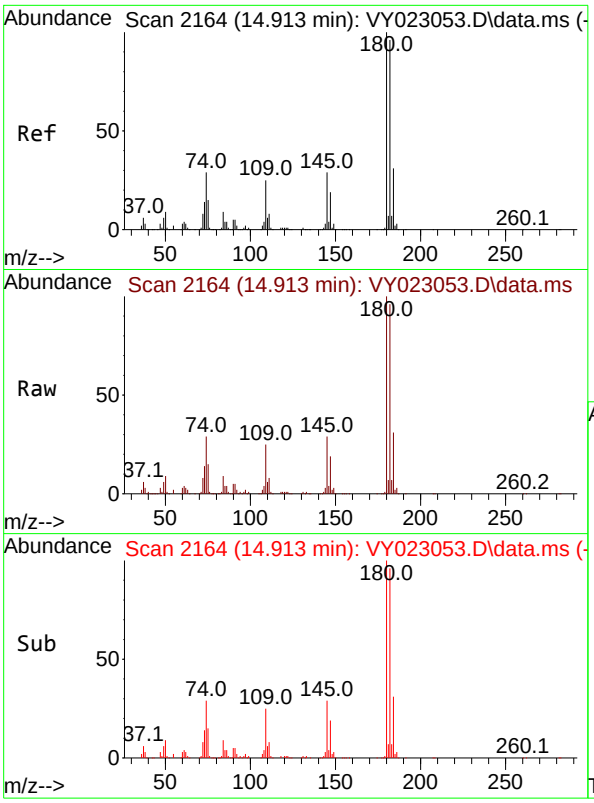




#92
1,2-Dibromo-3-Chloropropane
Concen: 50.592 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion: 75 Resp: 35867

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 87.7 | 43.9 | 131.6 |
| 157 | 114.4 | 57.2 | 171.6 |



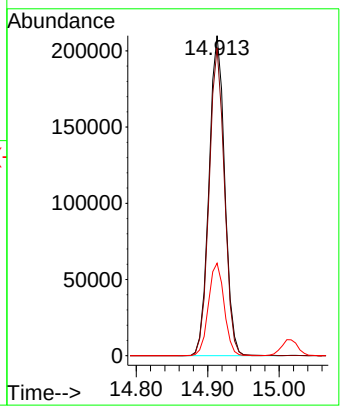


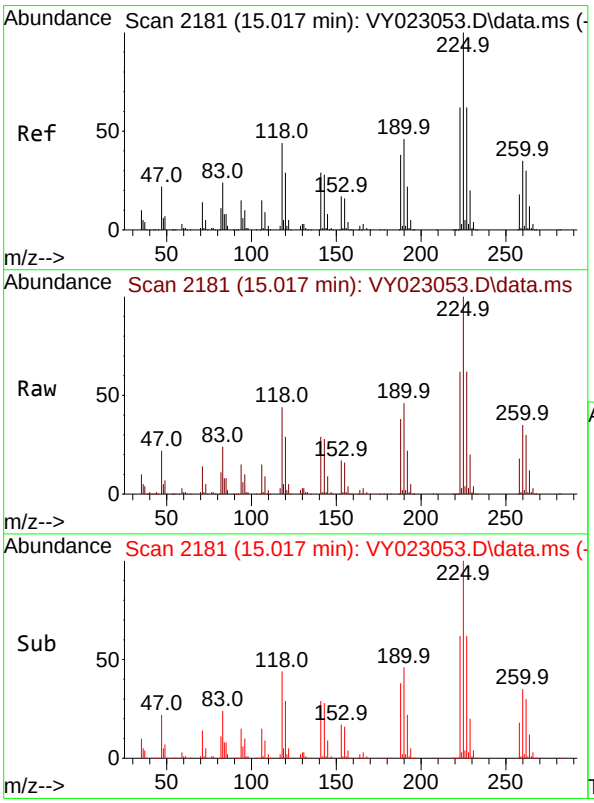

#93
1,2,4-Trichlorobenzene
Concen: 49.192 ug/l
RT: 14.913 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:180 Resp: 320080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.6 | 46.8 | 140.4 |
| 145 | 28.9 | 14.4 | 43.4 |

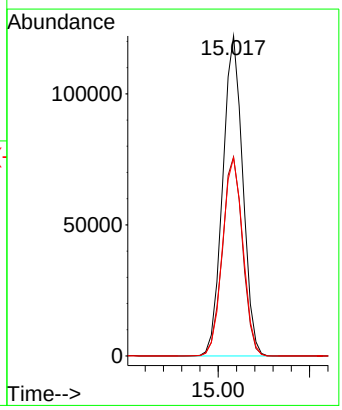


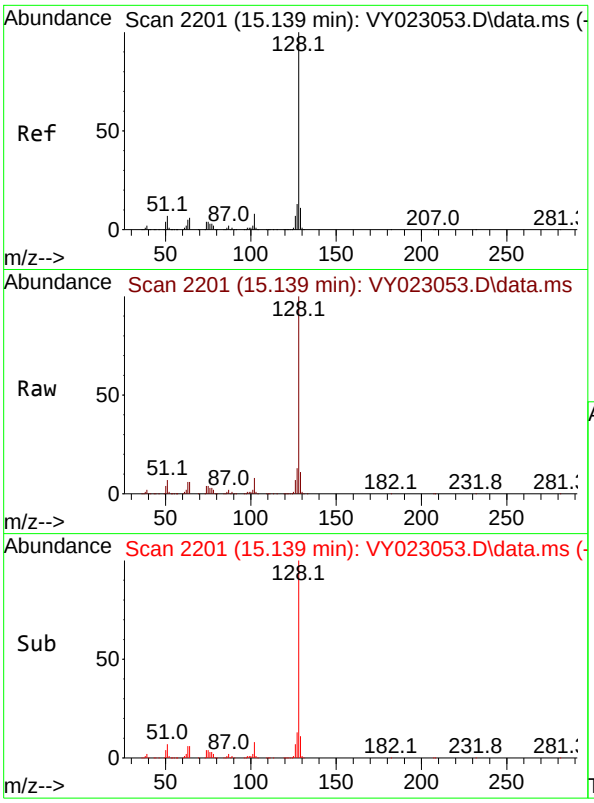




#94
Hexachlorobutadiene
Concen: 48.543 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:225 Resp: 185604

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.5 | 31.3 | 93.8 |
| 227 | 63.0 | 31.5 | 94.5 |



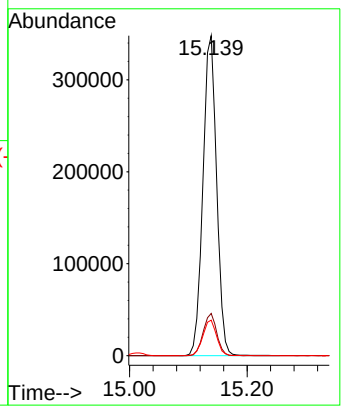


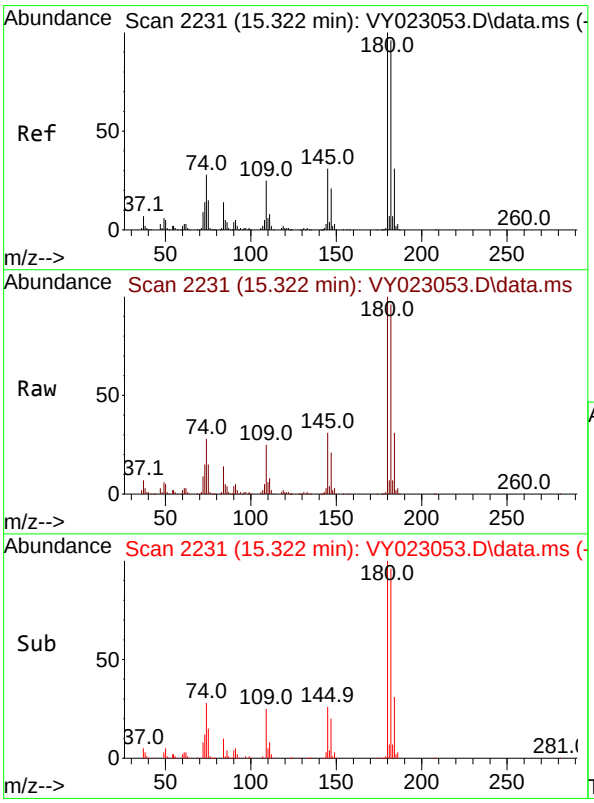

#95
Naphthalene
Concen: 50.685 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:128 Resp: 562363

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.0 | 10.4 | 15.6 |
| 129 | 11.2 | 9.0 | 13.4 |

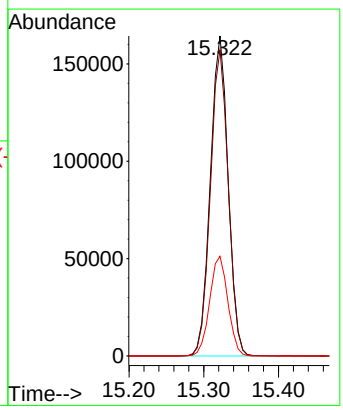



#96
1,2,3-Trichlorobenzene
Concen: 48.540 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023053.D
Acq: 12 Aug 2025 16:02

Tgt Ion:180 Resp: 272154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.8 | 47.9 | 143.7 |
| 145 | 31.8 | 15.9 | 47.7 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023054.D
Acq On : 12 Aug 2025 16:25
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Quant Time: Aug 13 01:54:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 558266 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.610 | 114 | 880463 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.408 | 117 | 784385 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 404136 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 527356 | 99.115 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 198.220%# | | | |
| 35) Dibromofluoromethane | 7.628 | 113 | 540106 | 102.518 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 205.040%# | | | |
| 50) Toluene-d8 | 10.103 | 98 | 2116445 | 102.832 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 205.660%# | | | |
| 62) 4-Bromofluorobenzene | 12.402 | 95 | 702583 | 106.147 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 212.300%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 376261 | 82.570 | ug/l | 98 |
| 3) Chloromethane | 2.068 | 50 | 673475 | 91.248 | ug/l | 99 |
| 4) Vinyl Chloride | 2.202 | 62 | 841648 | 92.250 | ug/l | 98 |
| 5) Bromomethane | 2.586 | 94 | 643103 | 94.384 | ug/l | 100 |
| 6) Chloroethane | 2.727 | 64 | 567515 | 93.563 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.050 | 101 | 1005284 | 90.617 | ug/l | 99 |
| 8) Diethyl Ether | 3.452 | 74 | 273400 | 93.150 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 3.812 | 101 | 497408 | 90.882 | ug/l | 99 |
| 10) Methyl Iodide | 4.001 | 142 | 629775 | 106.635 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.866 | 59 | 162373 | 445.387 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 506919 | 94.229 | ug/l | 95 |
| 13) Acrolein | 3.647 | 56 | 240580 | 450.599 | ug/l | 100 |
| 14) Allyl chloride | 4.379 | 41 | 759925 | 96.000 | ug/l | 99 |
| 15) Acrylonitrile | 5.049 | 53 | 555815 | 465.802 | ug/l | 99 |
| 16) Acetone | 3.867 | 43 | 522178 | 453.007 | ug/l | 97 |
| 17) Carbon Disulfide | 4.098 | 76 | 1622451 | 92.494 | ug/l | 100 |
| 18) Methyl Acetate | 4.379 | 43 | 312127 | 90.993 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 1342237 | 96.284 | ug/l | 100 |
| 20) Methylene Chloride | 4.610 | 84 | 570465 | 97.847 | ug/l | 98 |
| 21) trans-1,2-Dichloroethene | 5.110 | 96 | 580972 | 96.098 | ug/l | 99 |
| 22) Diisopropyl ether | 6.019 | 45 | 1686285 | 98.033 | ug/l | 99 |
| 23) Vinyl Acetate | 5.958 | 43 | 4632278 | 487.023 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.909 | 63 | 1012815 | 96.306 | ug/l | 100 |
| 25) 2-Butanone | 6.890 | 43 | 722555 | 460.899 | ug/l | 97 |
| 26) 2,2-Dichloropropane | 6.878 | 77 | 866598 | 95.497 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.884 | 96 | 681242 | 97.472 | ug/l | 100 |
| 28) Bromochloromethane | 7.244 | 49 | 409677 | 98.188 | ug/l | 100 |
| 29) Tetrahydrofuran | 7.256 | 42 | 451254 | 464.370 | ug/l | 100 |
| 30) Chloroform | 7.415 | 83 | 1045381 | 96.383 | ug/l | 96 |
| 31) Cyclohexane | 7.695 | 56 | 884707 | 89.271 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.610 | 97 | 929858 | 96.620 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.829 | 75 | 755114 | 96.443 | ug/l | 99 |
| 37) Ethyl Acetate | 6.982 | 43 | 313447 | 95.302 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.811 | 117 | 819941 | 96.419 | ug/l | 98 |
| 39) Methylcyclohexane | 9.103 | 83 | 1011944 | 98.146 | ug/l | 99 |
| 40) Benzene | 8.073 | 78 | 2348617 | 97.324 | ug/l | 99 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023054.D
Acq On : 12 Aug 2025 16:25
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Quant Time: Aug 13 01:54:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.220 | 41 | 180468 | 94.973 | ug/l | | 98 |
| 42) 1,2-Dichloroethane | 8.152 | 62 | 597215 | 95.155 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.195 | 43 | 636710 | 95.780 | ug/l | | 99 |
| 44) Trichloroethene | 8.860 | 130 | 602322 | 96.584 | ug/l | | 97 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 543589 | 97.899 | ug/l | | 99 |
| 46) Dibromomethane | 9.225 | 93 | 309302 | 97.052 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.420 | 83 | 802532 | 97.864 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.219 | 41 | 319906 | 100.567 | ug/l | | 99 |
| 49) 1,4-Dioxane | 9.225 | 88 | 71300 | 1908.039 | ug/l | | 94 |
| 51) 4-Methyl-2-Pentanone | 9.994 | 43 | 1669668 | 486.924 | ug/l | | 100 |
| 52) Toluene | 10.164 | 92 | 1537088 | 100.288 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 754278 | 101.574 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 880571 | 100.281 | ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 10.567 | 97 | 415556 | 97.446 | ug/l | | 99 |
| 56) Ethyl methacrylate | 10.432 | 69 | 569556 | 104.375 | ug/l | | 100 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 696130 | 96.253 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 1389847 | 539.957 | ug/l | | 99 |
| 59) 2-Hexanone | 10.756 | 43 | 1151000 | 492.950 | ug/l | | 100 |
| 60) Dibromochloromethane | 10.902 | 129 | 557205 | 99.024 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.012 | 107 | 391650 | 97.713 | ug/l | | 98 |
| 64) Tetrachloroethene | 10.640 | 164 | 615871 | 87.931 | ug/l | | 98 |
| 65) Chlorobenzene | 11.438 | 112 | 1658154 | 98.004 | ug/l | | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 11.512 | 131 | 573131 | 99.810 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.512 | 91 | 2914020 | 100.082 | ug/l | | 98 |
| 68) m/p-Xylenes | 11.621 | 106 | 2312597 | 203.363 | ug/l | | 98 |
| 69) o-Xylene | 11.950 | 106 | 1100998 | 103.373 | ug/l | | 99 |
| 70) Styrene | 11.963 | 104 | 1845480 | 105.953 | ug/l | | 99 |
| 71) Bromoform | 12.127 | 173 | 334886 | 99.786 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.249 | 105 | 2839999 | 99.567 | ug/l | | 99 |
| 74) N-amyl acetate | 12.066 | 43 | 610668 | 100.955 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.499 | 83 | 469810 | 96.464 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.548 | 75 | 610364 | 156.388 | ug/l | # | 100 |
| 77) Bromobenzene | 12.524 | 156 | 671329 | 98.655 | ug/l | | 98 |
| 78) n-propylbenzene | 12.591 | 91 | 3360679 | 98.963 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.670 | 91 | 1931460 | 99.268 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.731 | 105 | 2321527 | 100.707 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.298 | 75 | 153260 | 95.118 | ug/l | | 100 |
| 82) 4-Chlorotoluene | 12.767 | 91 | 1988544 | 98.519 | ug/l | | 100 |
| 83) tert-Butylbenzene | 12.993 | 119 | 2125785 | 102.102 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.036 | 105 | 2339432 | 101.946 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.170 | 105 | 3056373 | 99.932 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.286 | 119 | 2610936 | 102.846 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.280 | 146 | 1338547 | 99.748 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.359 | 146 | 1290840 | 96.970 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.609 | 91 | 2370706 | 101.675 | ug/l | | 100 |
| 90) Hexachloroethane | 13.871 | 117 | 510900 | 98.308 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 13.651 | 146 | 1162152 | 98.749 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.267 | 75 | 69736 | 91.965 | ug/l | | 97 |
| 93) 1,2,4-Trichlorobenzene | 14.913 | 180 | 692201 | 99.460 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 15.017 | 225 | 387707 | 94.803 | ug/l | | 99 |
| 95) Naphthalene | 15.133 | 128 | 1212227 | 102.147 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.322 | 180 | 587990 | 98.046 | ug/l | | 100 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023054.D
Acq On : 12 Aug 2025 16:25
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Quant Time: Aug 13 01:54:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

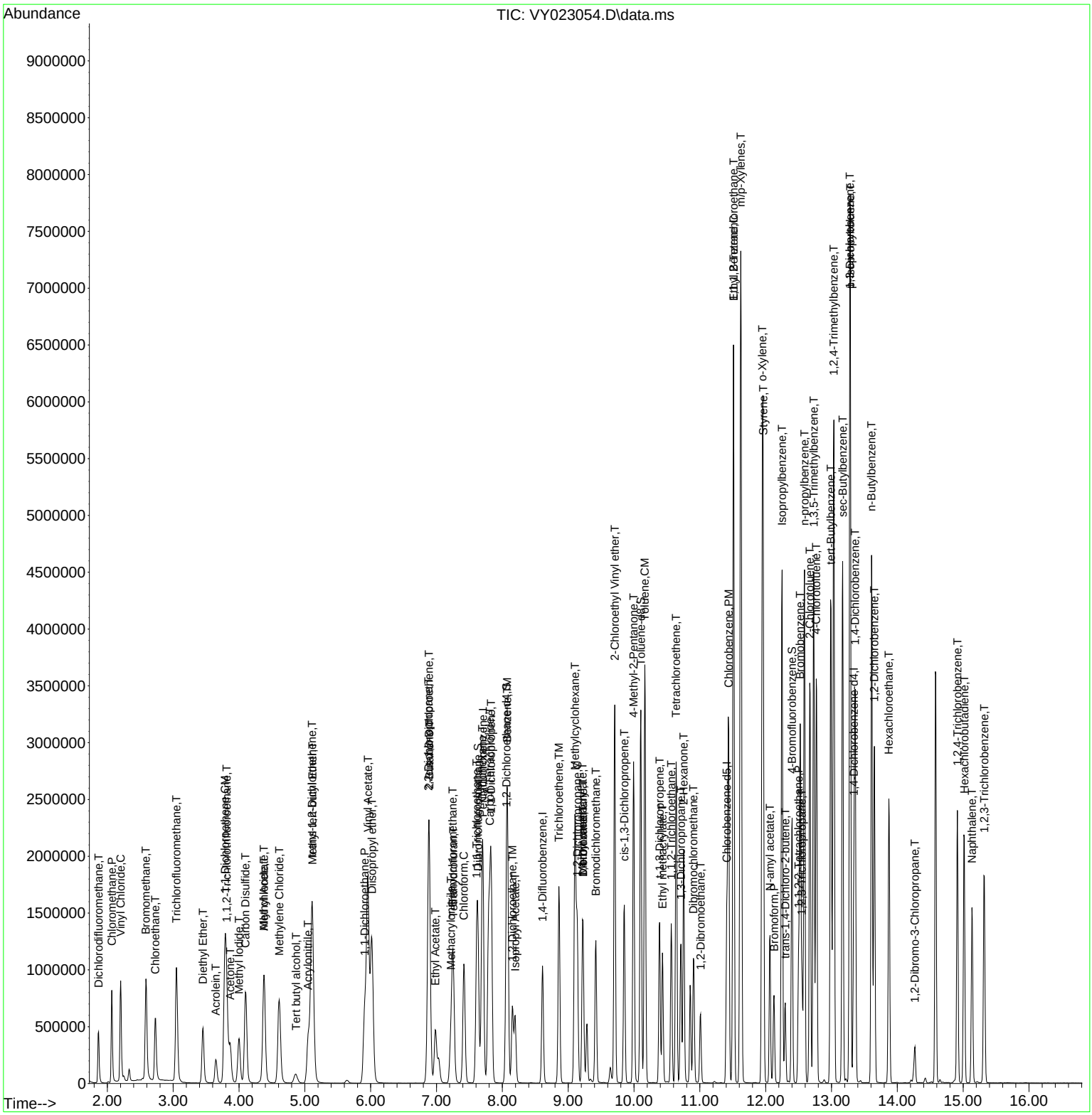
(#) = qualifier out of range (m) = manual integration (+) = signals summed

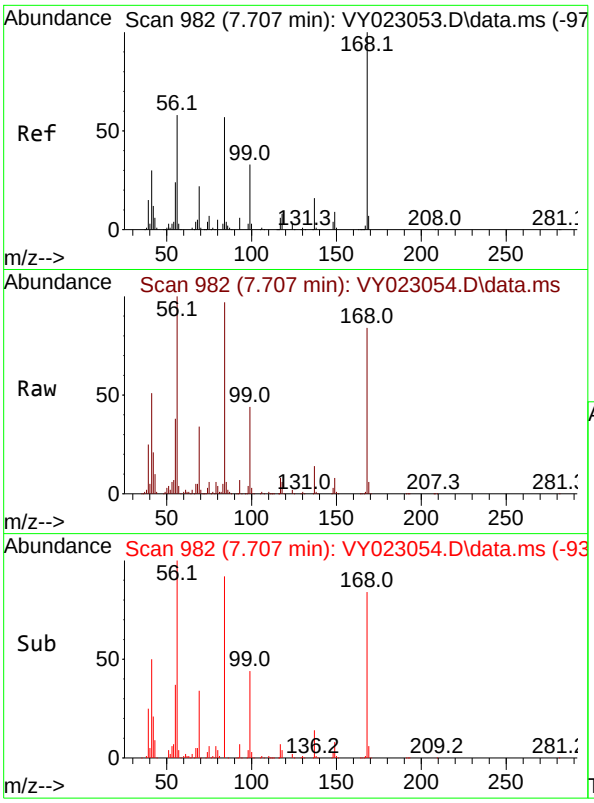
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023054.D
Acq On : 12 Aug 2025 16:25
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Quant Time: Aug 13 01:54:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration



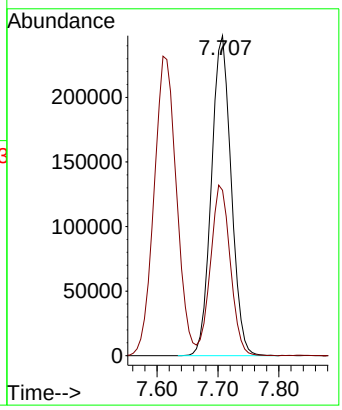


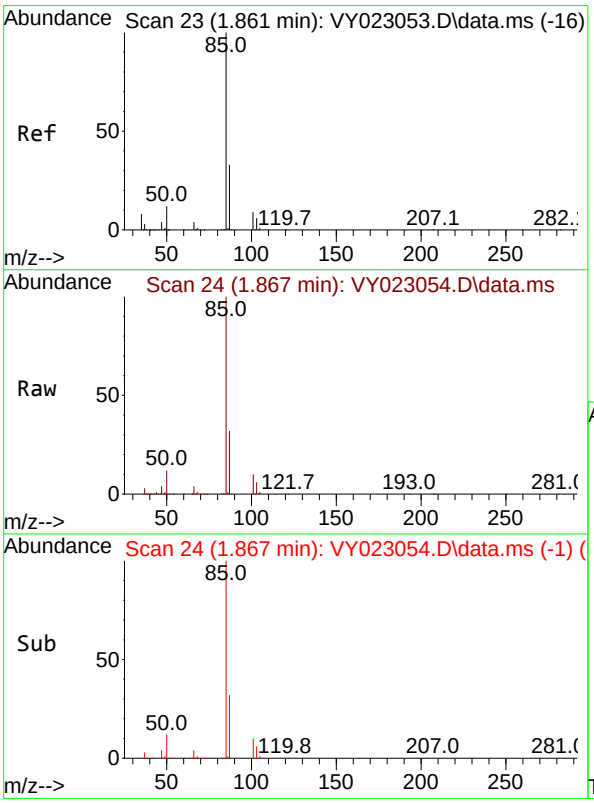

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:168 Resp: 558266

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 51.7 | 42.8 | 64.2 |

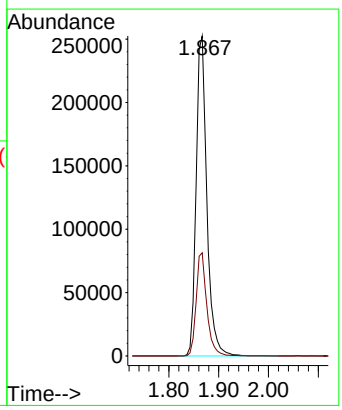


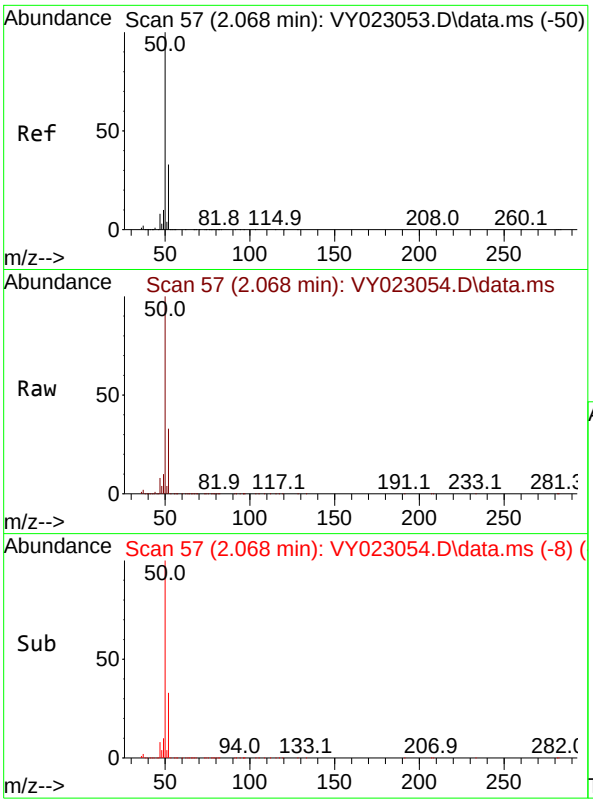




#2
Dichlorodifluoromethane
Concen: 82.570 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 85 Resp: 376261

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.3 | 16.6 | 49.8 |



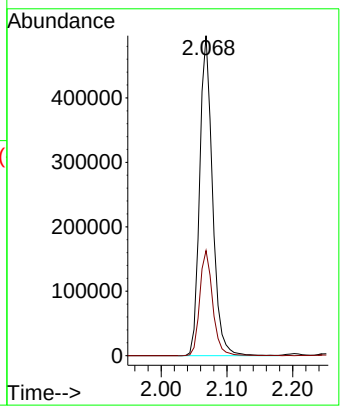


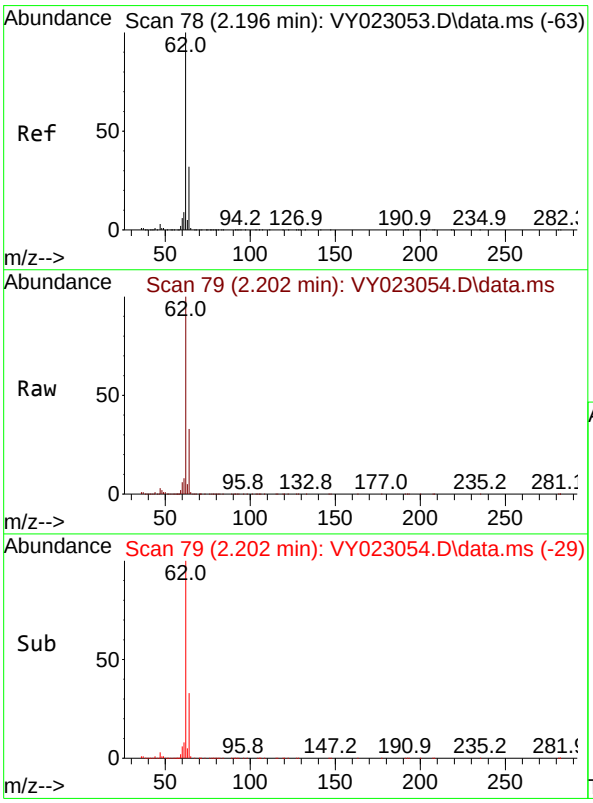

#3
Chloromethane
Concen: 91.248 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 50 Resp: 673475

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.9 | 26.7 | 40.1 |

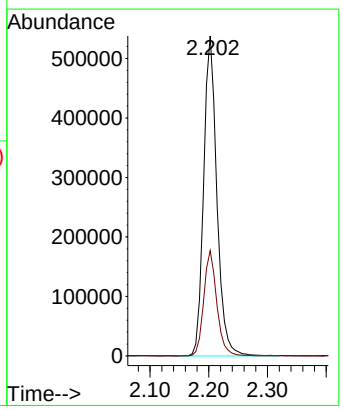


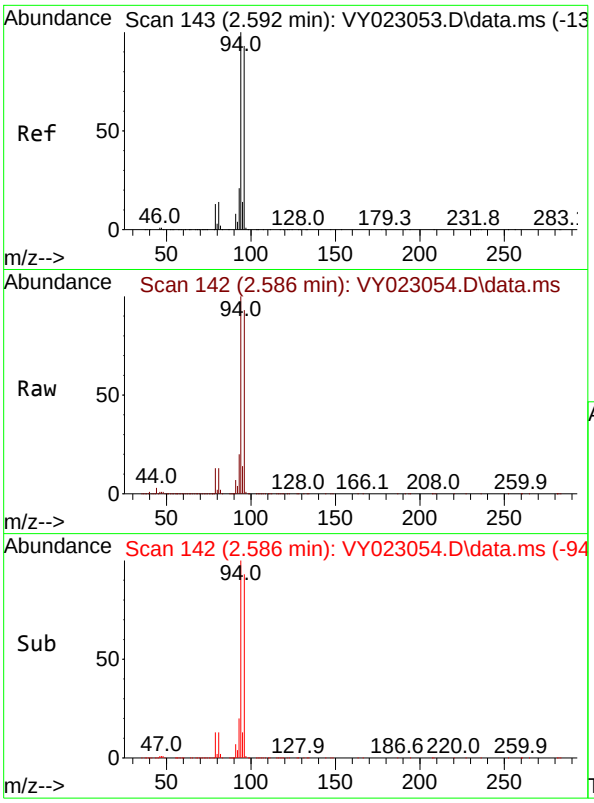




#4
Vinyl Chloride
Concen: 92.250 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 62 Resp: 841648

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.9 | 25.4 | 38.0 |



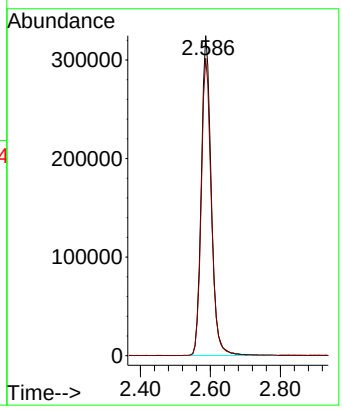


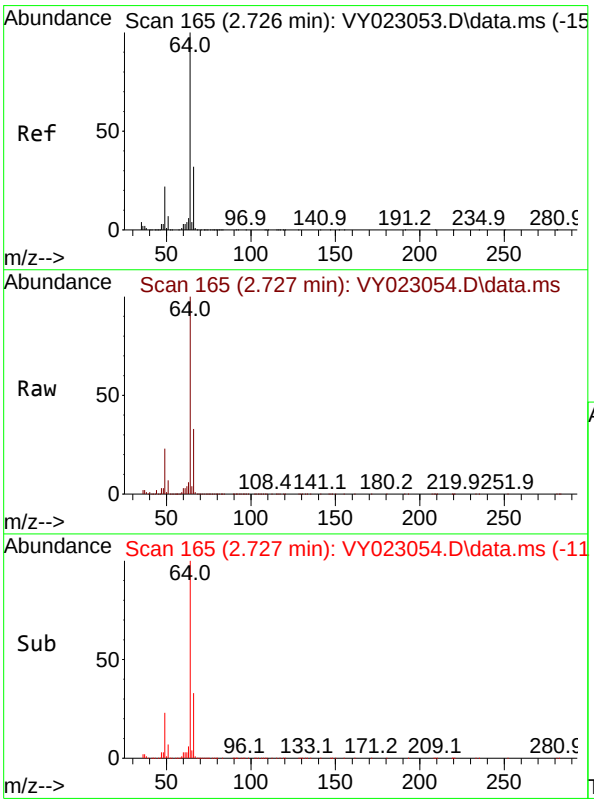

#5
Bromomethane
Concen: 94.384 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 94 Resp: 643103

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 92.9 | 74.6 | 112.0 |

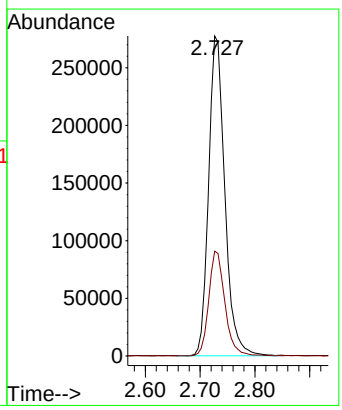


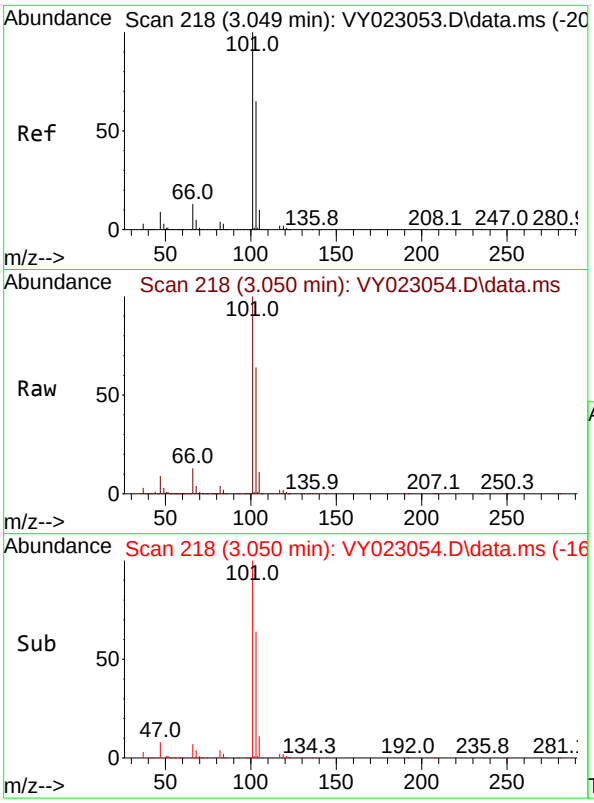




#6
Chloroethane
Concen: 93.563 ug/l
RT: 2.727 min Scan# 165
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 64 Resp: 567515

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.7 | 25.8 | 38.6 |



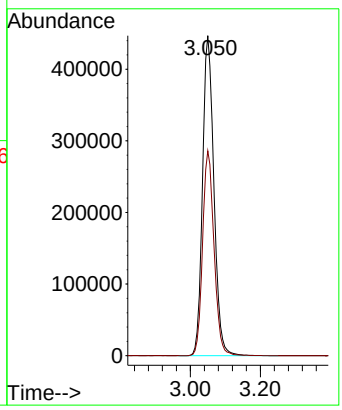


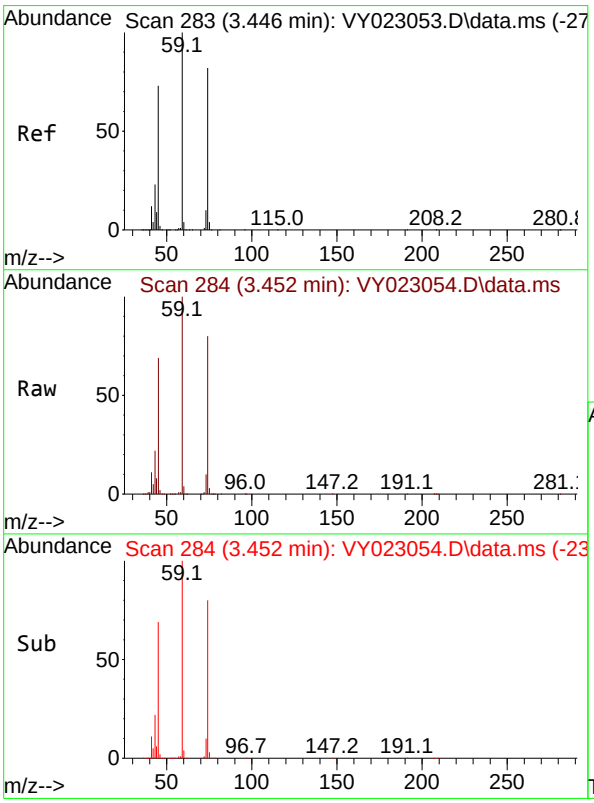

#7
Trichlorofluoromethane
Concen: 90.617 ug/l
RT: 3.050 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:101 Resp: 1005284

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.0 | 51.9 | 77.9 |

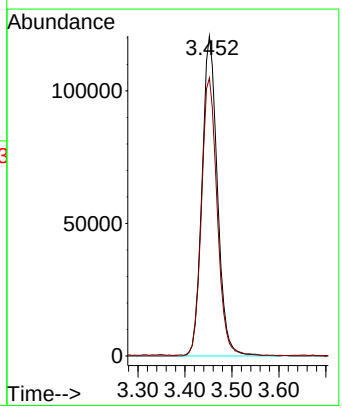


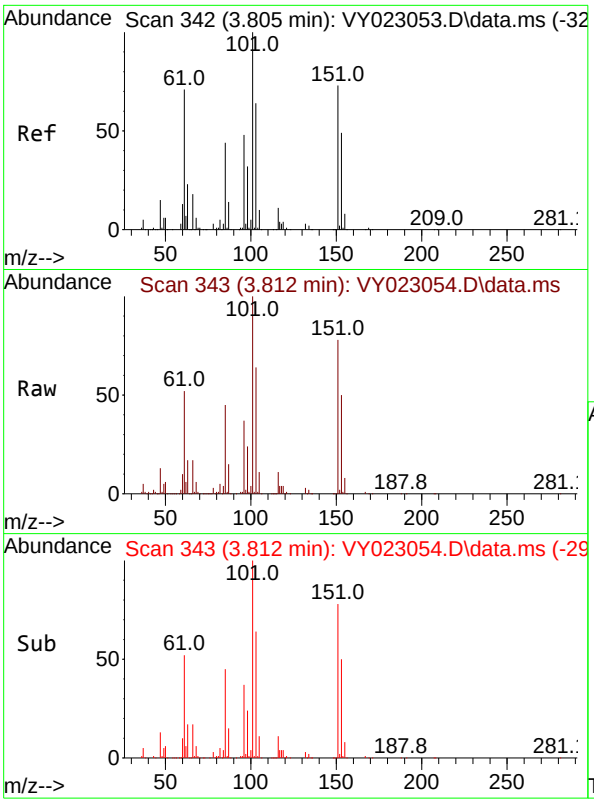




#8
Diethyl Ether
Concen: 93.150 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 74 Resp: 273400

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 88.2 | 44.4 | 133.2 |



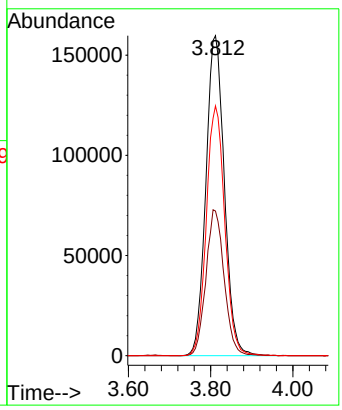


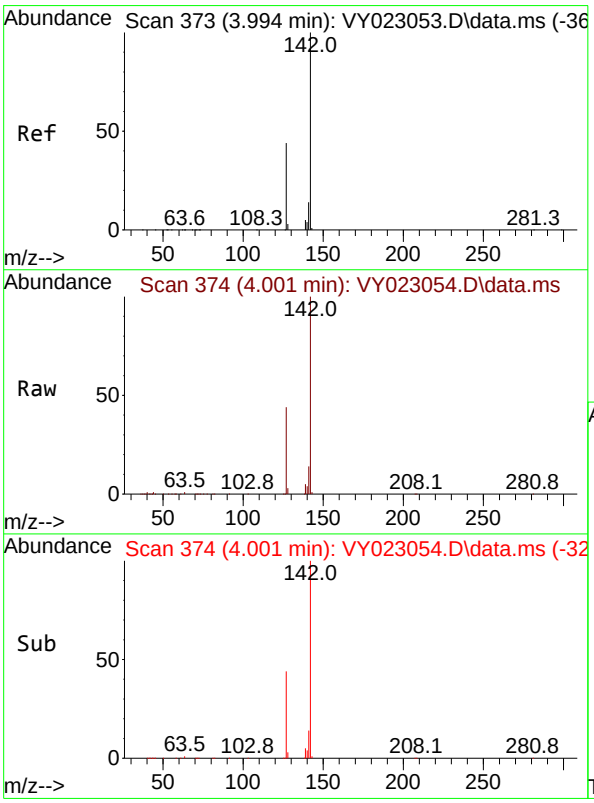

#9
1,1,2-Trichlorotrifluoroethane
Concen: 90.882 ug/l
RT: 3.812 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:101 Resp: 497408

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 45.0 | 36.3 | 54.5 |
| 151 | 77.9 | 61.5 | 92.3 |

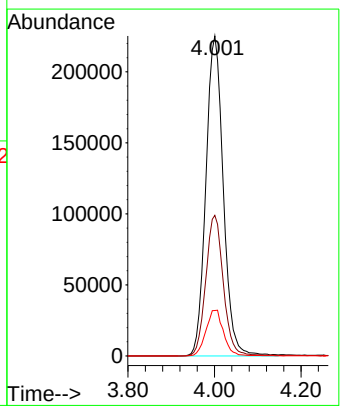


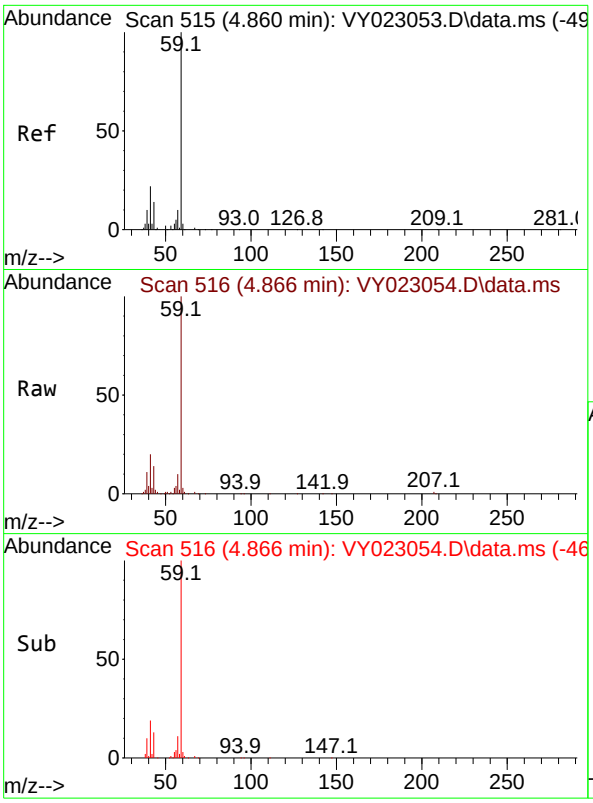




#10
Methyl Iodide
Concen: 106.635 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:142 Resp: 629775

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 44.2 | 34.9 | 52.3 |
| 141 | 14.4 | 11.3 | 16.9 |



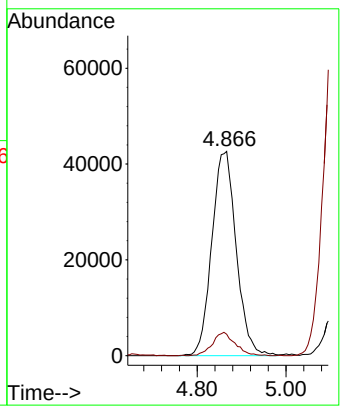


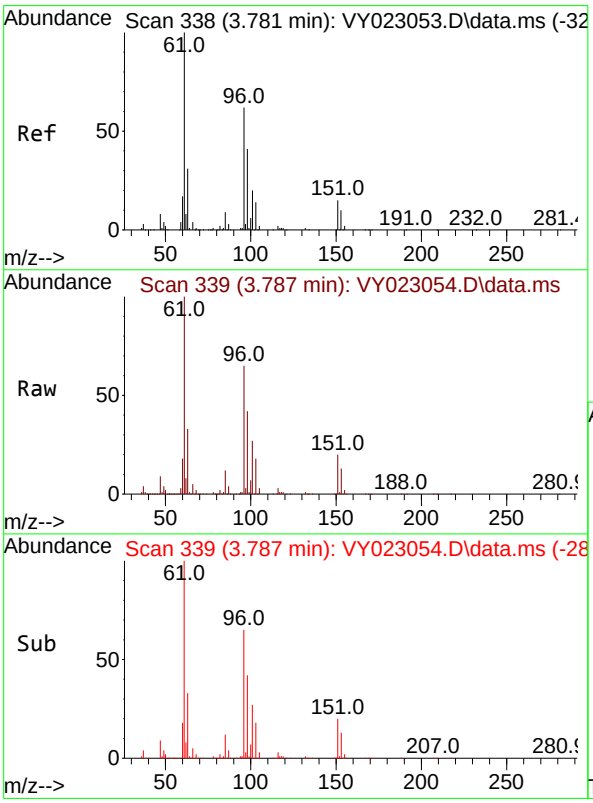

#11
Tert butyl alcohol
Concen: 445.387 ug/l
RT: 4.866 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 59 Resp: 162373

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.6 | 8.6 | 13.0 |

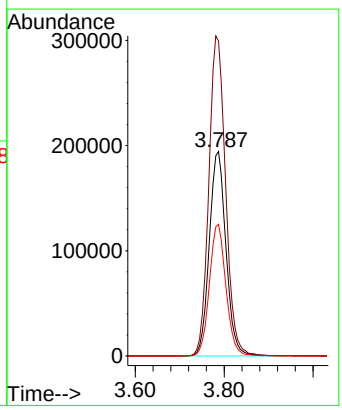


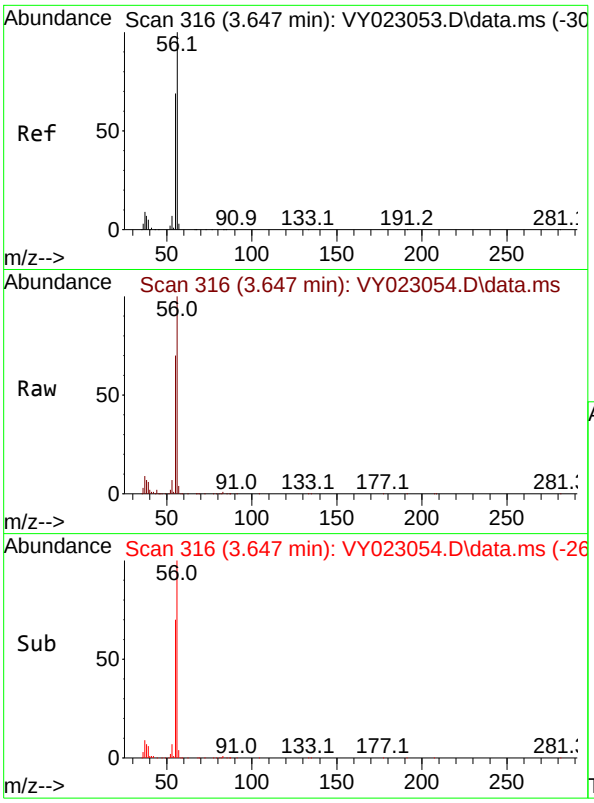




#12
1,1-Dichloroethene
Concen: 94.229 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 96 Resp: 506919

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 154.0 | 129.4 | 194.2 |
| 98 | 64.4 | 52.8 | 79.2 |



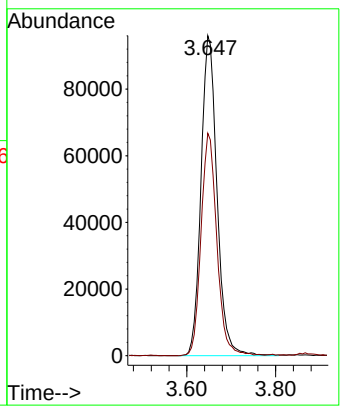


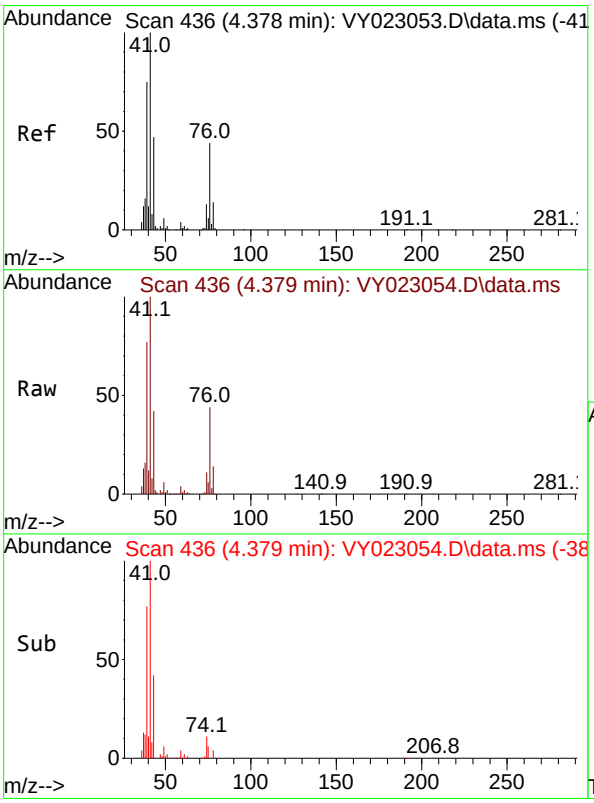

#13
Acrolein
Concen: 450.599 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 56 Resp: 240580

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 68.9 | 55.2 | 82.8 |

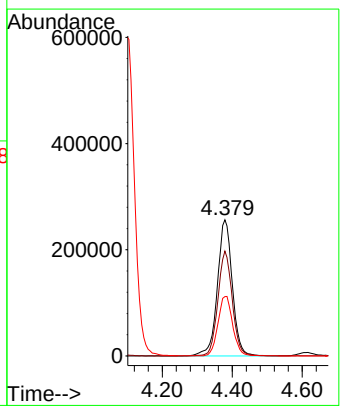


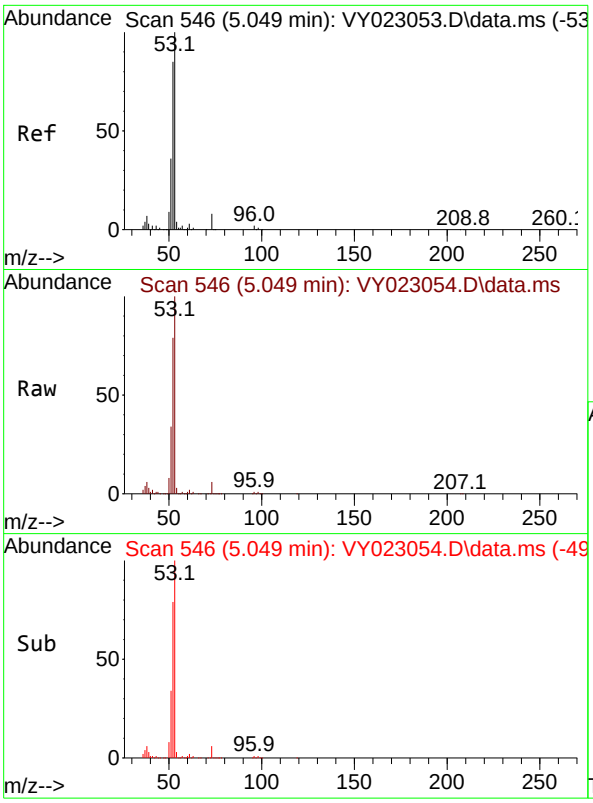




#14
Allyl chloride
Concen: 96.000 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 41 Resp: 759925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 74.3 | 59.8 | 89.6 |
| 76 | 43.0 | 33.7 | 50.5 |



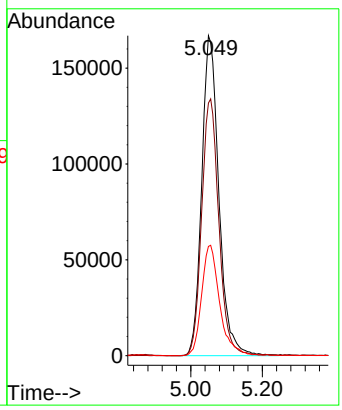


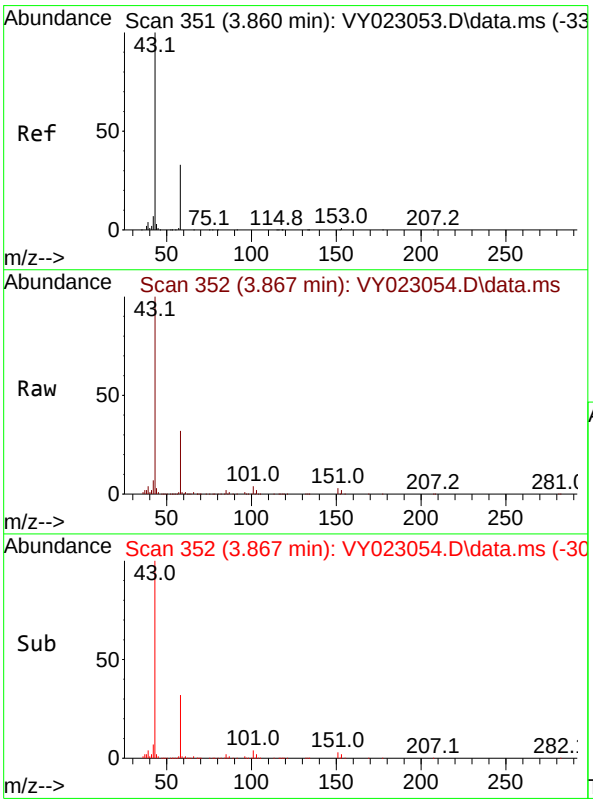

#15
Acrylonitrile
Concen: 465.802 ug/l
RT: 5.049 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 53 Resp: 555815

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 80.3 | 65.3 | 97.9 |
| 51 | 36.3 | 29.5 | 44.3 |

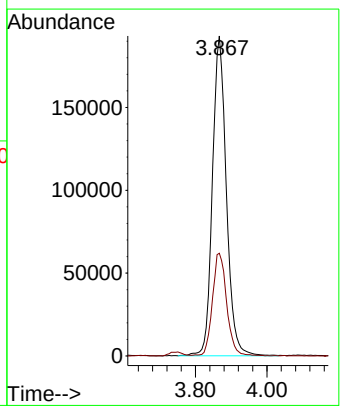


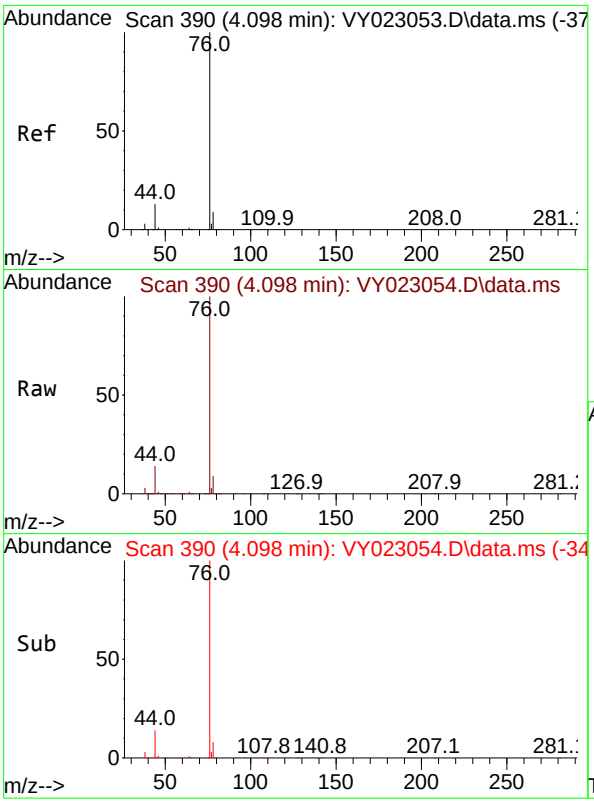




#16
Acetone
Concen: 453.007 ug/l
RT: 3.867 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 43 Resp: 522178

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.1 | 27.1 | 40.7 |



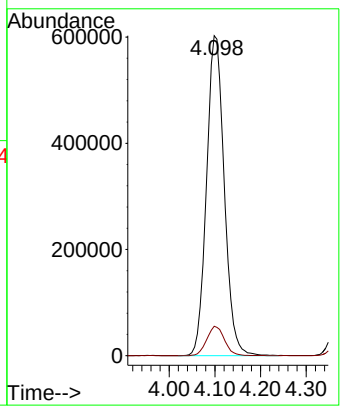


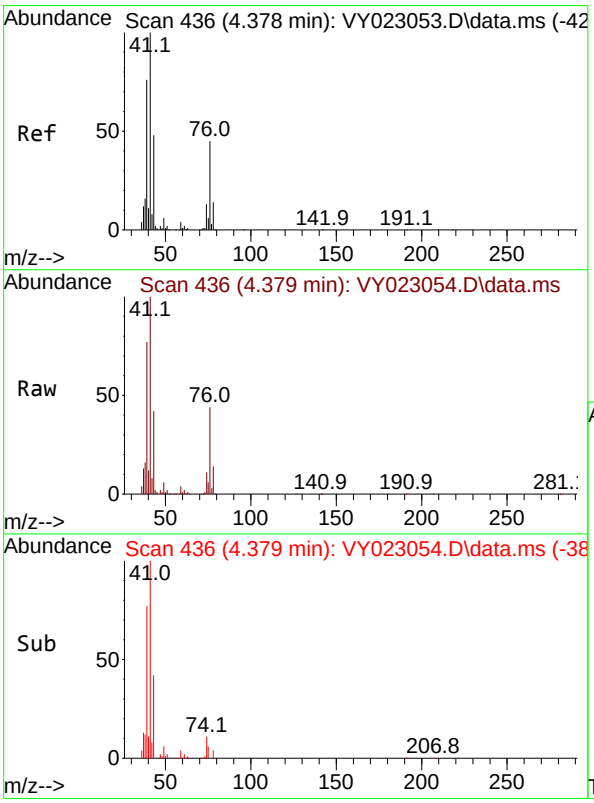

#17
Carbon Disulfide
Concen: 92.494 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 76 Resp: 1622451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.2 | 7.4 | 11.2 |

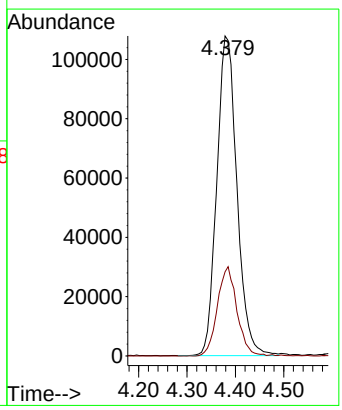


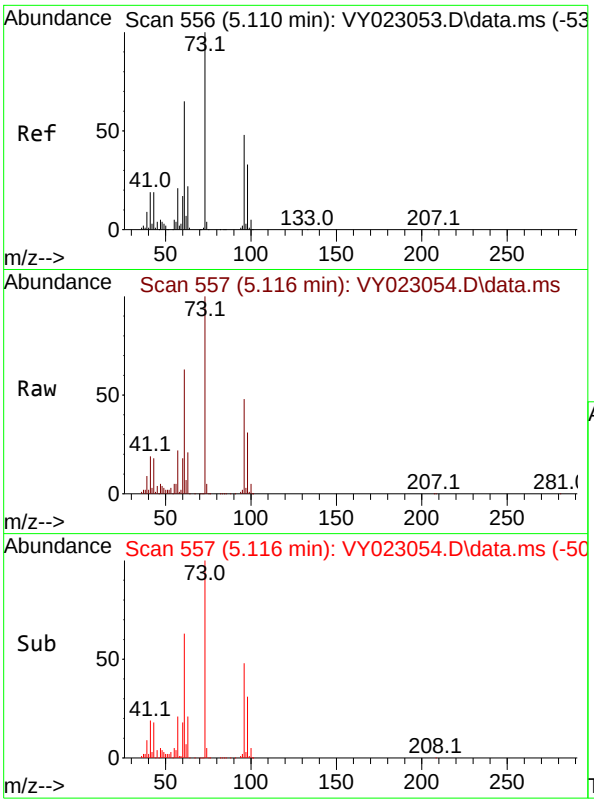




#18
Methyl Acetate
Concen: 90.993 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 43 Resp: 312127

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 27.1 | 21.2 | 31.8 |



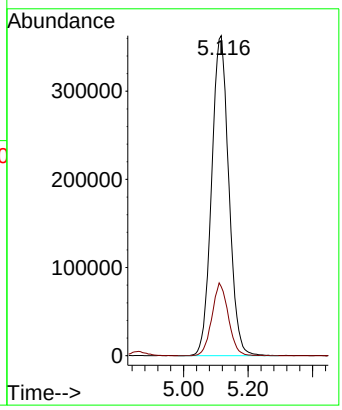


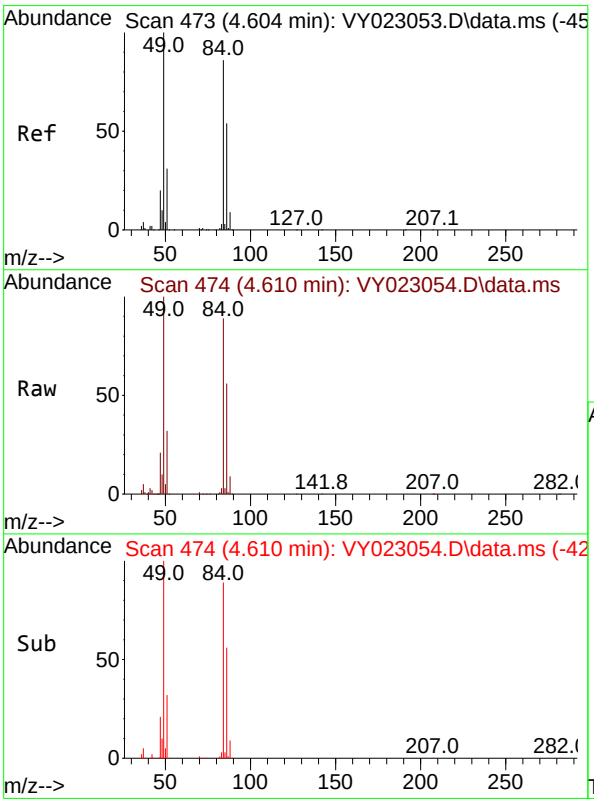

#19
Methyl tert-butyl Ether
Concen: 96.284 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 73 Resp: 1342237

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.5 | 17.1 | 25.7 |

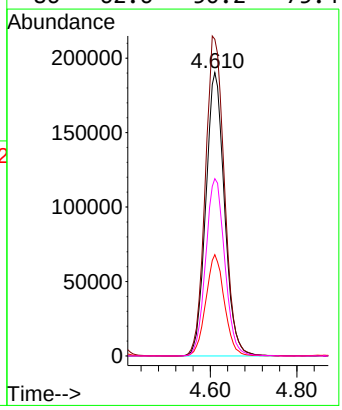


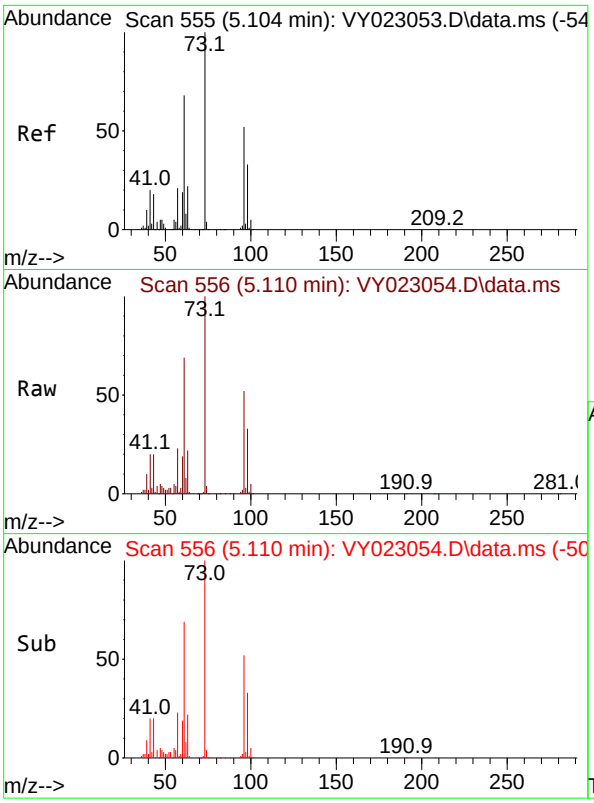




#20
Methylene Chloride
Concen: 97.847 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 84 Resp: 570465

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 111.7 | 93.0 | 139.6 |
| 51 | 35.7 | 29.0 | 43.4 |
| 86 | 62.6 | 50.2 | 75.4 |



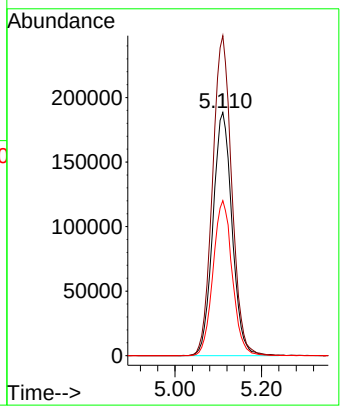


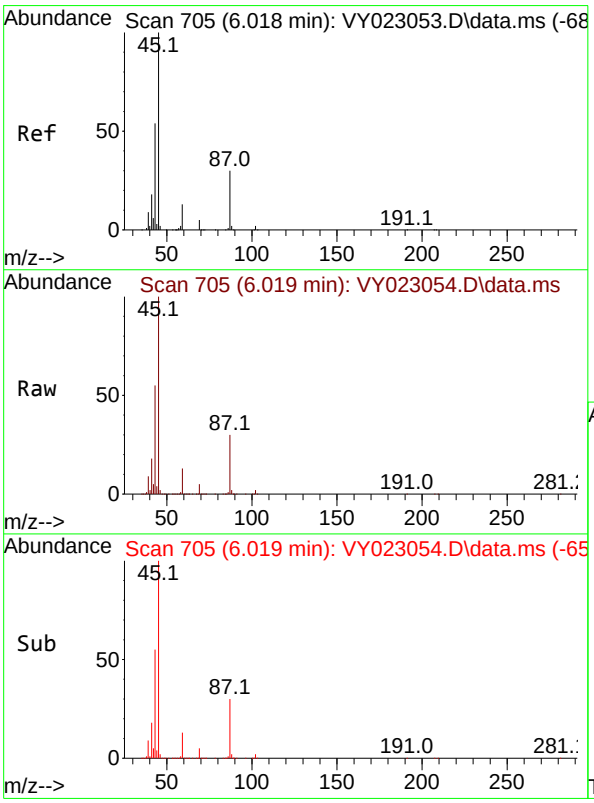

#21
trans-1,2-Dichloroethene
Concen: 96.098 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 96 Resp: 580972

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 131.5 | 104.8 | 157.2 |
| 98 | 63.8 | 50.1 | 75.1 |

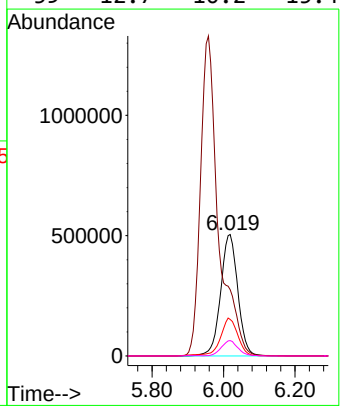


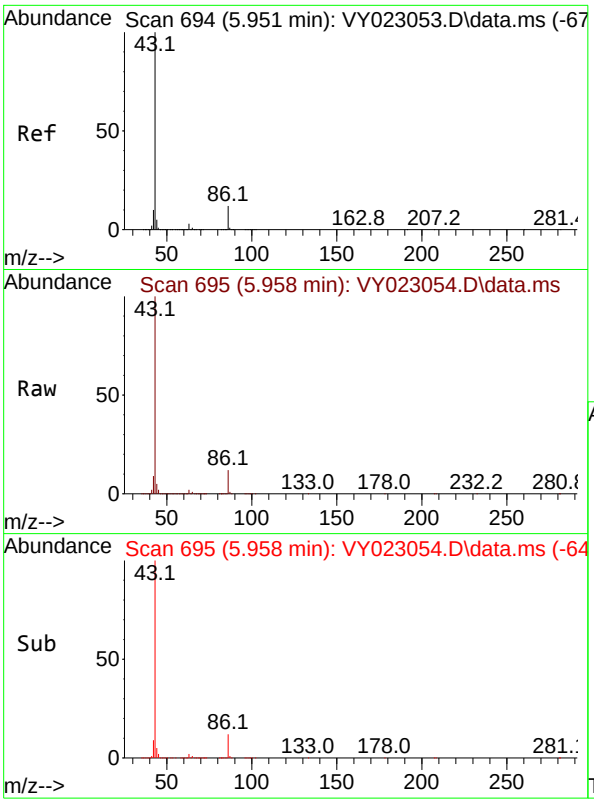




#22
Diisopropyl ether
Concen: 98.033 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 45 Resp: 1686285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 54.5 | 43.4 | 65.0 |
| 87 | 30.0 | 24.4 | 36.6 |
| 59 | 12.7 | 10.2 | 15.4 |



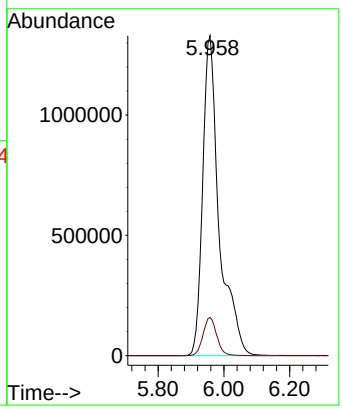


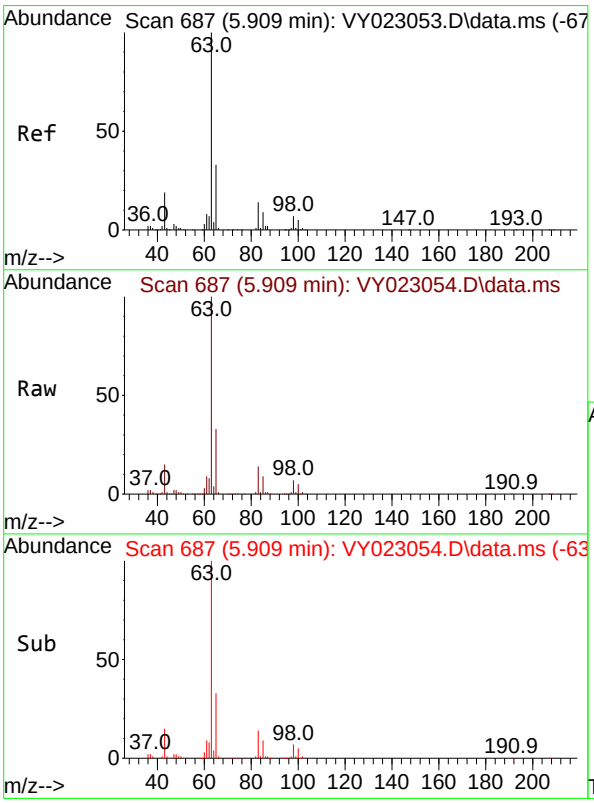

#23
Vinyl Acetate
Concen: 487.023 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 43 Resp: 4632278

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.9 | 9.6 | 14.4 |

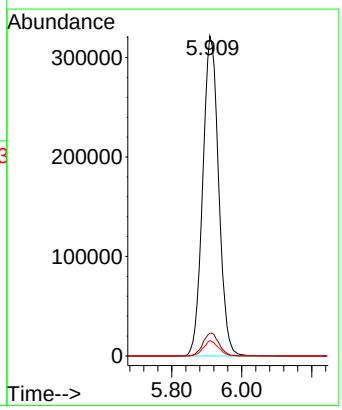


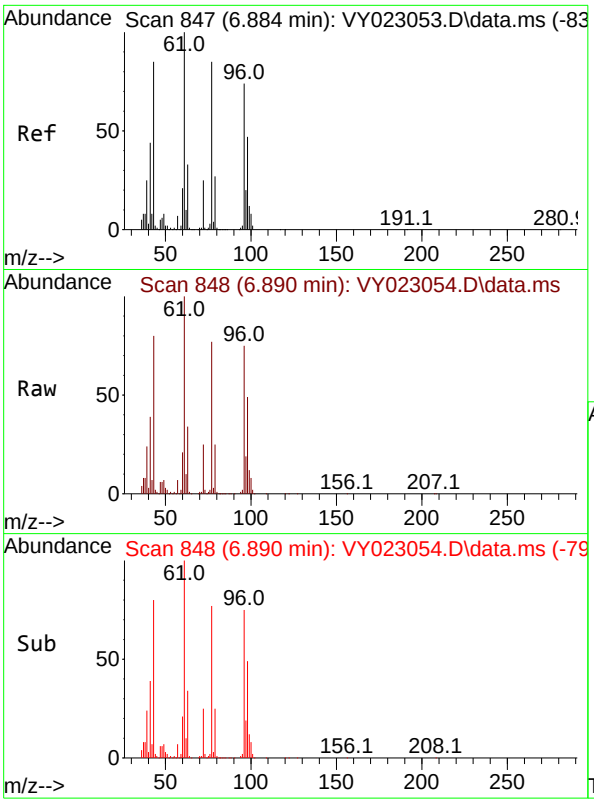




#24
1,1-Dichloroethane
Concen: 96.306 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 63 Resp: 1012815

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.1 | 3.5 | 10.6 |
| 100 | 4.8 | 2.4 | 7.1 |



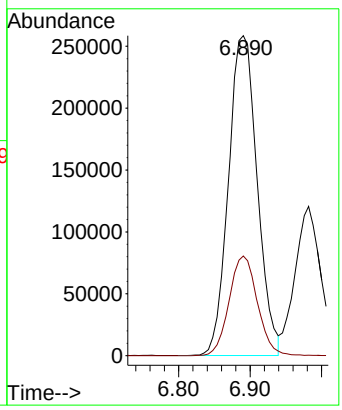


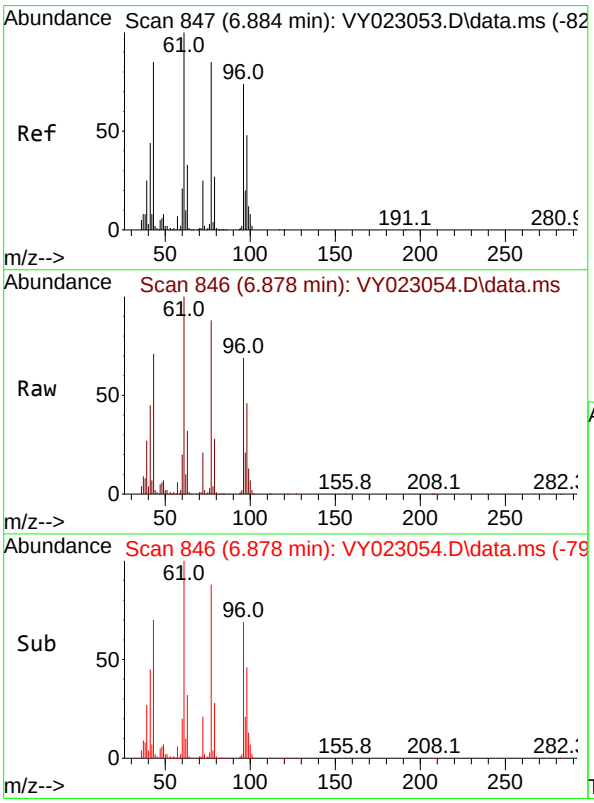

#25
2-Butanone
Concen: 460.899 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 43 Resp: 722555

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 31.2 | 23.5 | 35.3 |

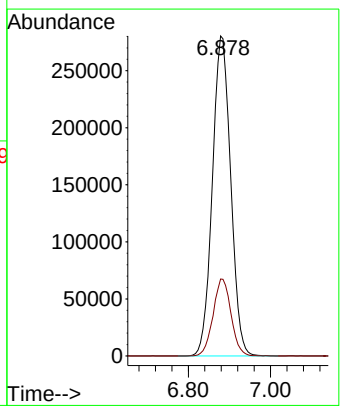


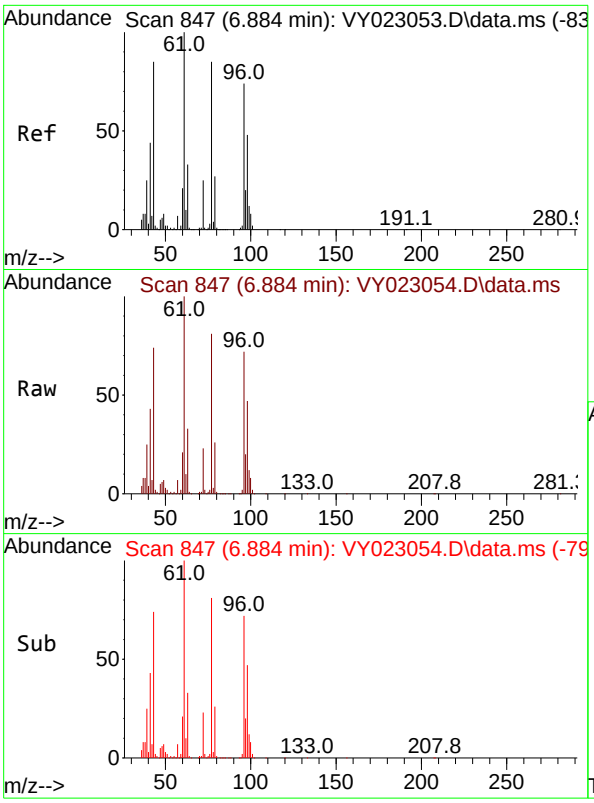




#26
2,2-Dichloropropane
Concen: 95.497 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 77 Resp: 866598

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.6 | 11.6 | 34.8 |



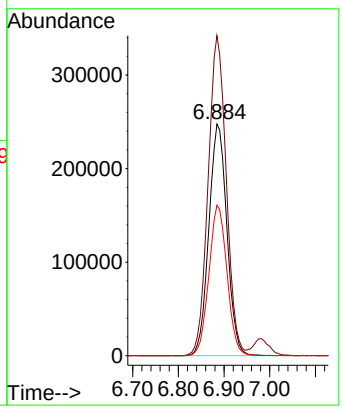


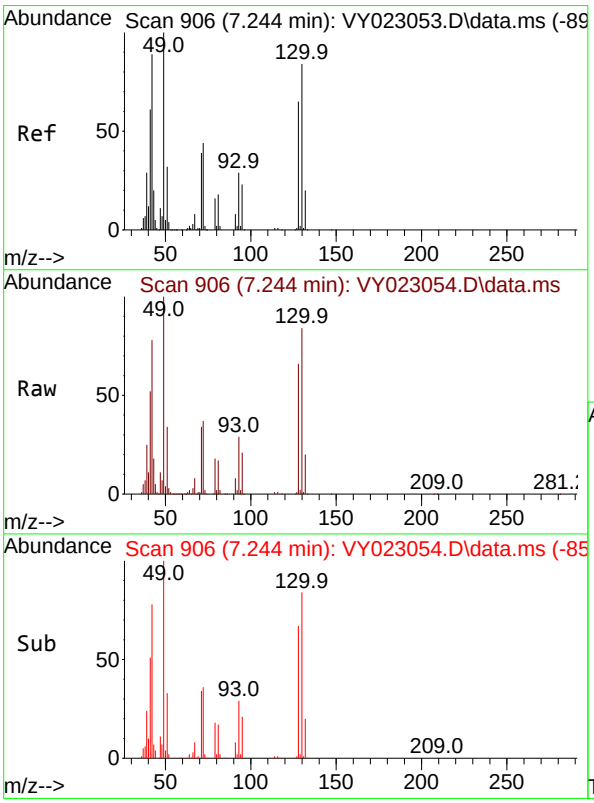

#27
cis-1,2-Dichloroethene
Concen: 97.472 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 96 Resp: 681242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 138.6 | 0.0 | 278.6 |
| 98 | 65.0 | 0.0 | 130.4 |

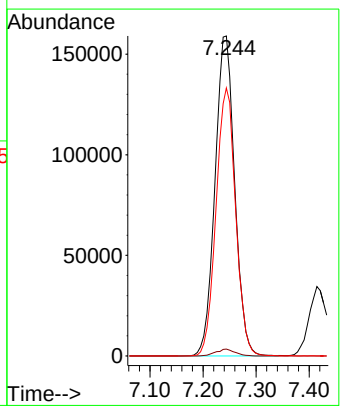


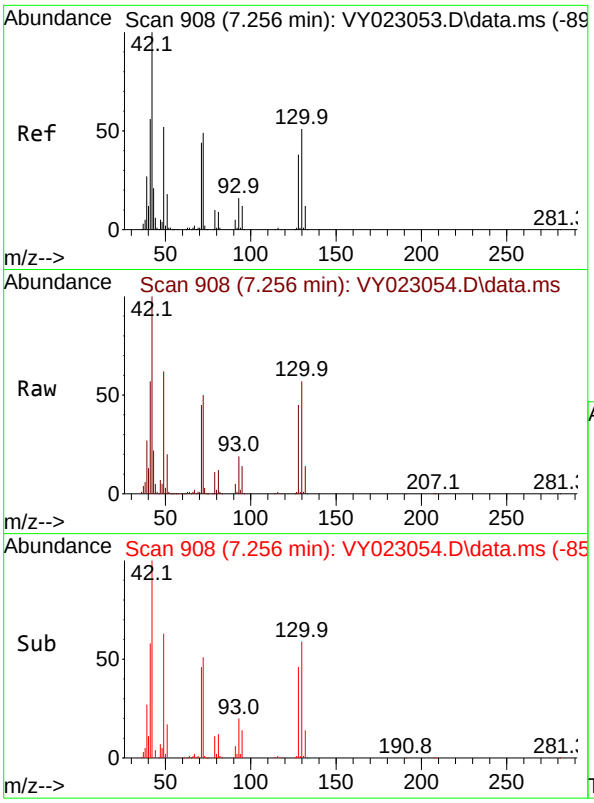




#28
Bromochloromethane
Concen: 98.188 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 49 Resp: 409677

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.1 | 0.0 | 4.2 |
| 130 | 83.4 | 66.4 | 99.6 |



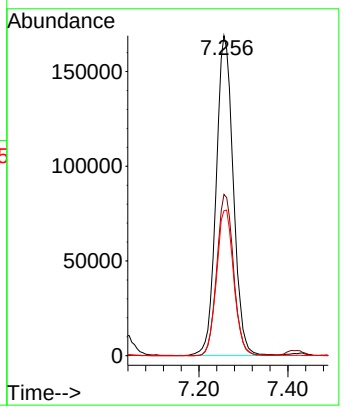


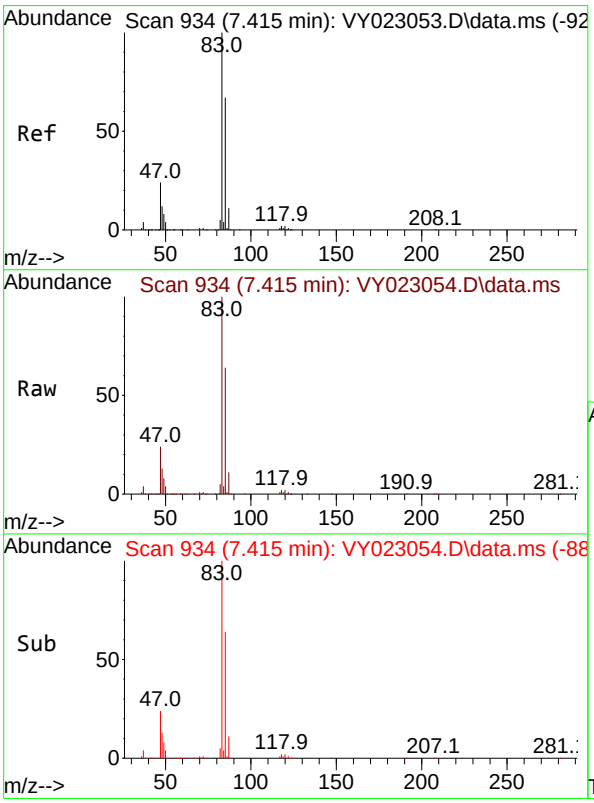

#29
Tetrahydrofuran
Concen: 464.370 ug/l
RT: 7.256 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 42 Resp: 451254

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 49.4 | 39.4 | 59.2 |
| 71 | 45.8 | 36.5 | 54.7 |

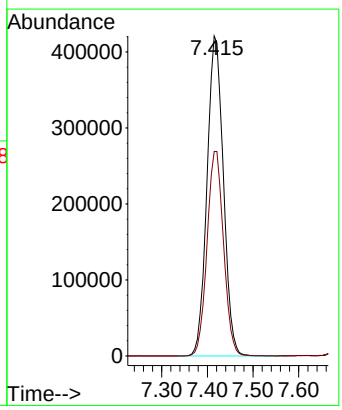


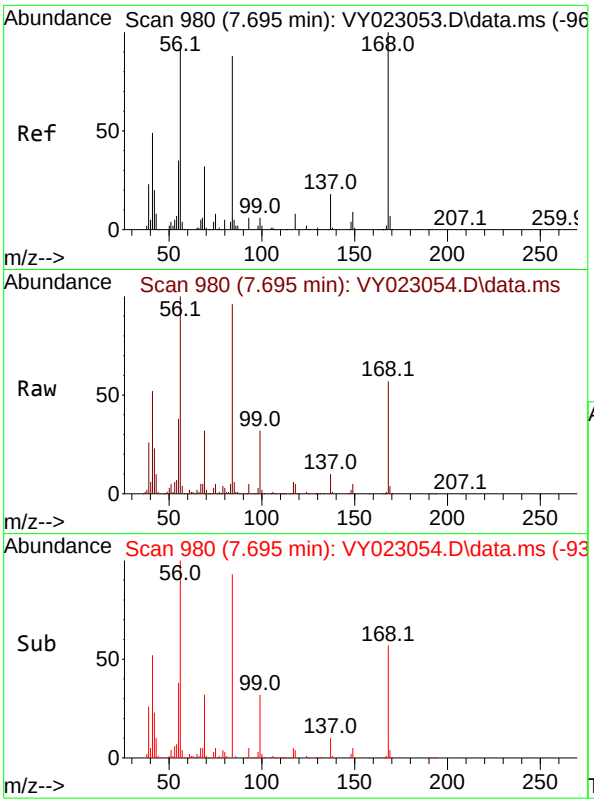




#30
Chloroform
Concen: 96.383 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 83 Resp: 1045381

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.9 | 53.8 | 80.8 |



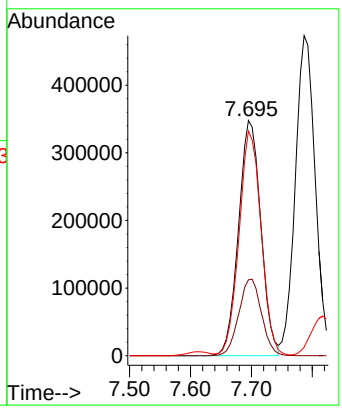


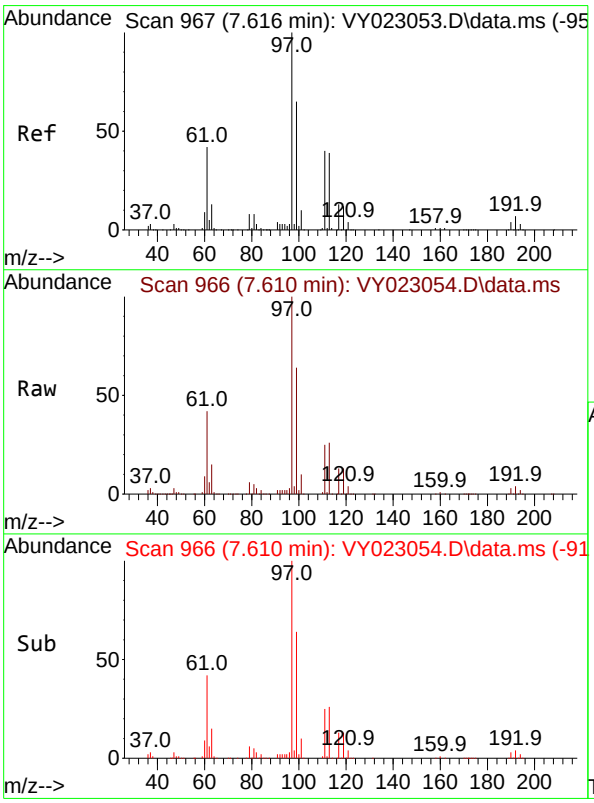

#31
Cyclohexane
Concen: 89.271 ug/l
RT: 7.695 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 56 Resp: 884707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 32.3 | 28.2 | 42.2 |
| 84 | 95.2 | 76.6 | 114.8 |

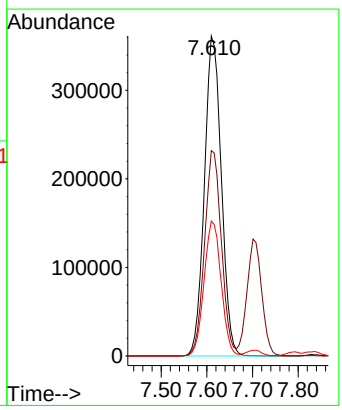


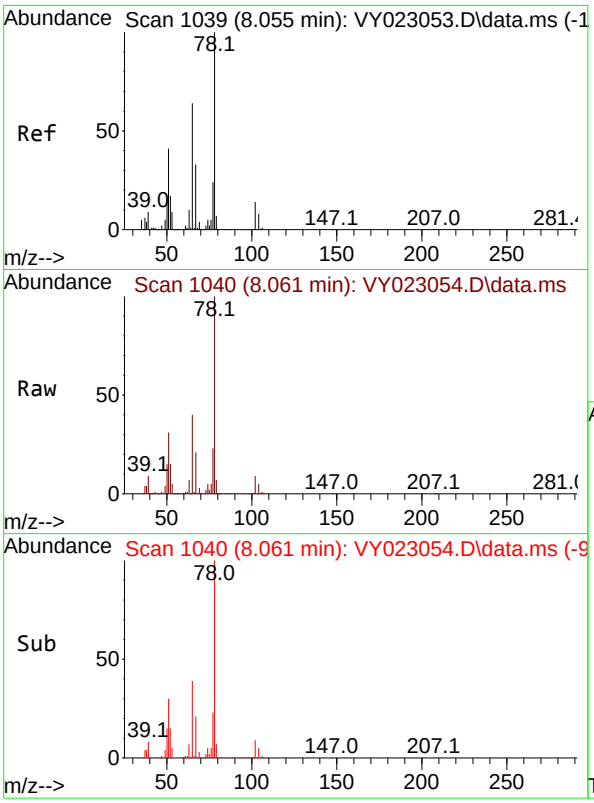




#32
1,1,1-Trichloroethane
Concen: 96.620 ug/l
RT: 7.610 min Scan# 966
Delta R.T. -0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 97 Resp: 929858

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.9 | 51.6 | 77.4 |
| 61 | 42.5 | 34.2 | 51.2 |



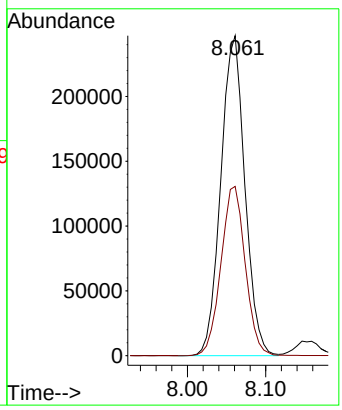


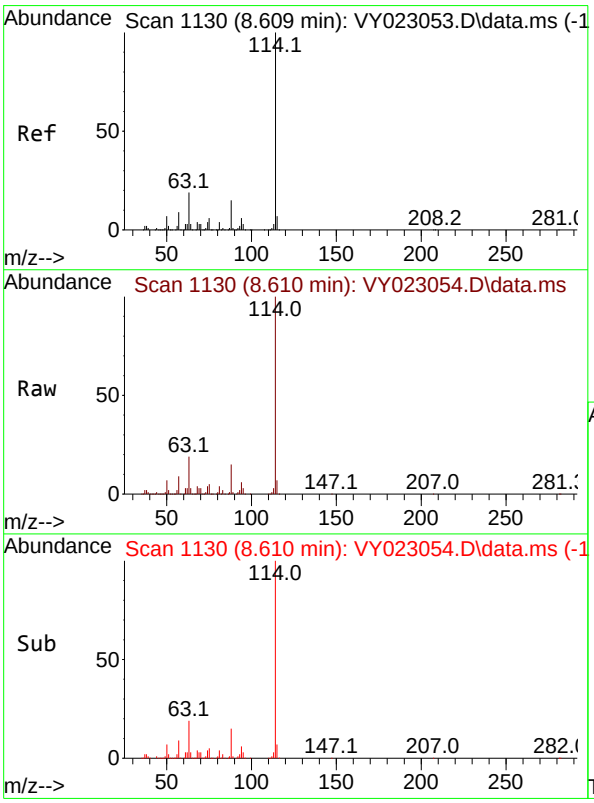

#33
1,2-Dichloroethane-d4
Concen: 99.115 ug/l
RT: 8.061 min Scan# 1(
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 65 Resp: 527356

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.5 | 0.0 | 106.8 |

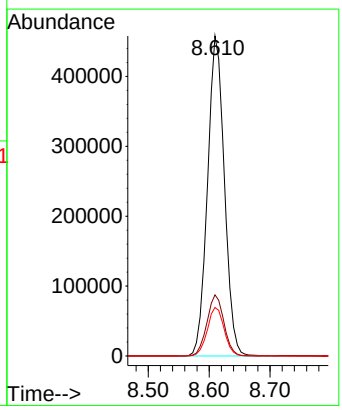


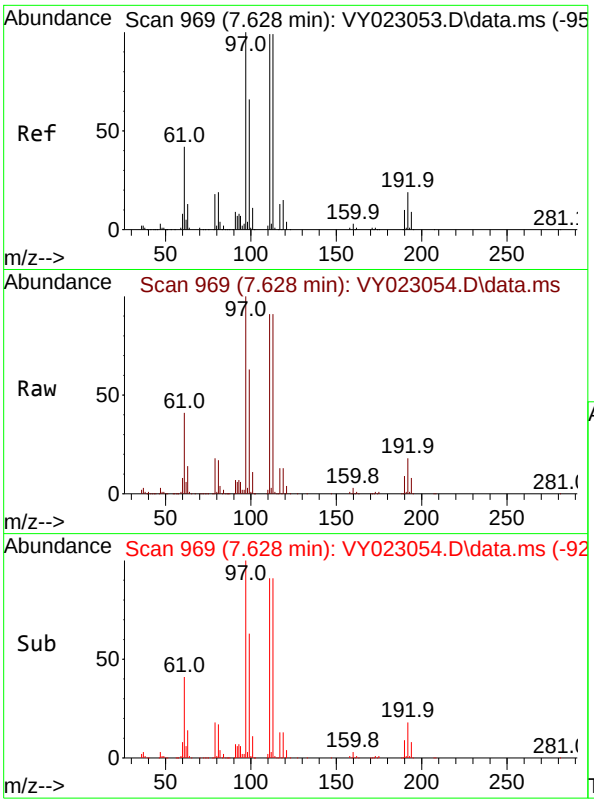




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:114 Resp: 880463

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.1 | 0.0 | 38.4 |
| 88 | 15.2 | 0.0 | 30.0 |



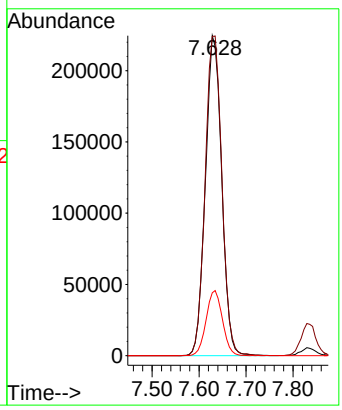


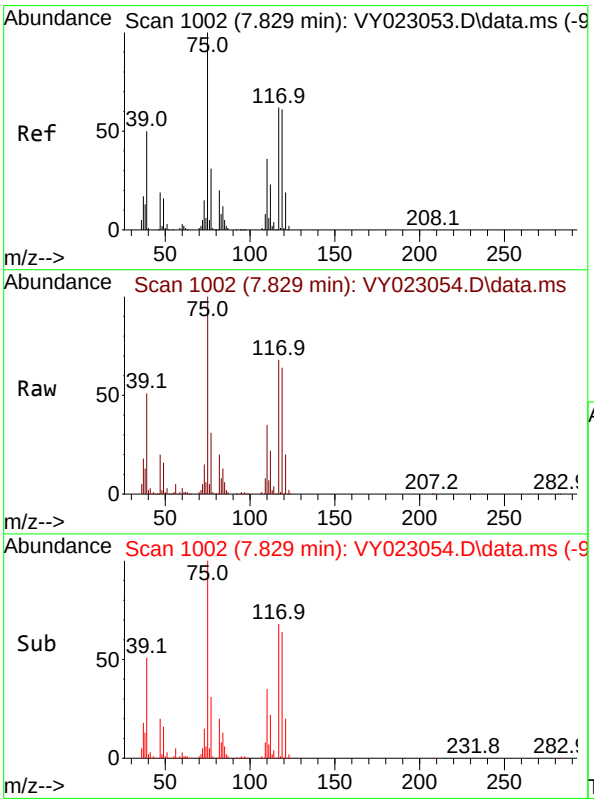

#35
Dibromofluoromethane
Concen: 102.518 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:113 Resp: 540106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.6 | 81.1 | 121.7 |
| 192 | 20.4 | 16.2 | 24.4 |

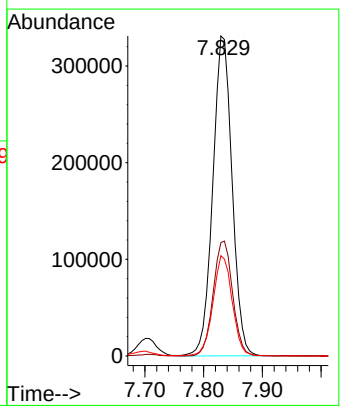


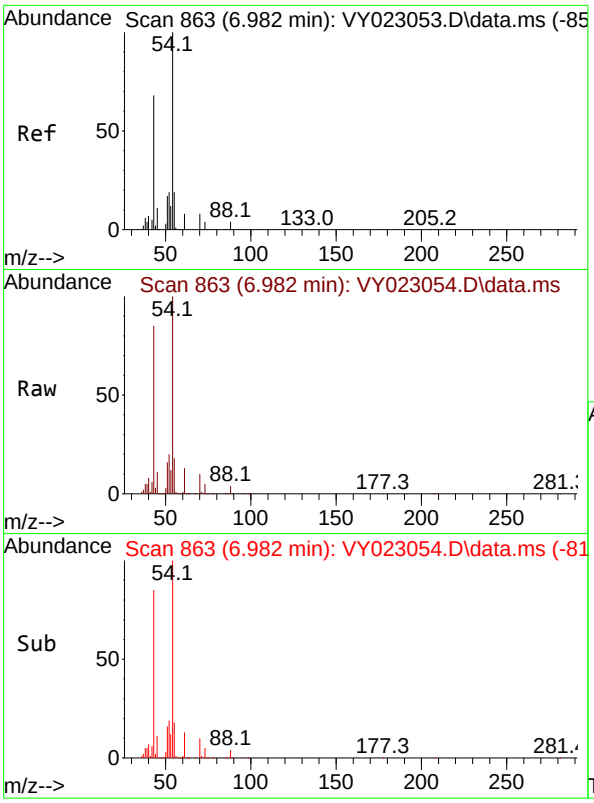




#36
1,1-Dichloropropene
Concen: 96.443 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 75 Resp: 755114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 36.1 | 18.1 | 54.4 |
| 77 | 31.3 | 24.6 | 37.0 |



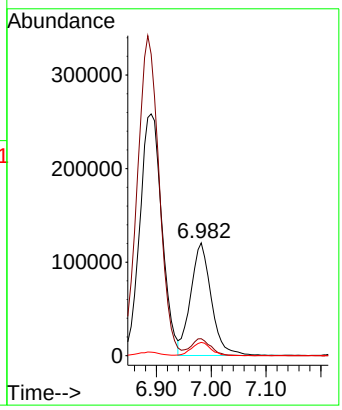


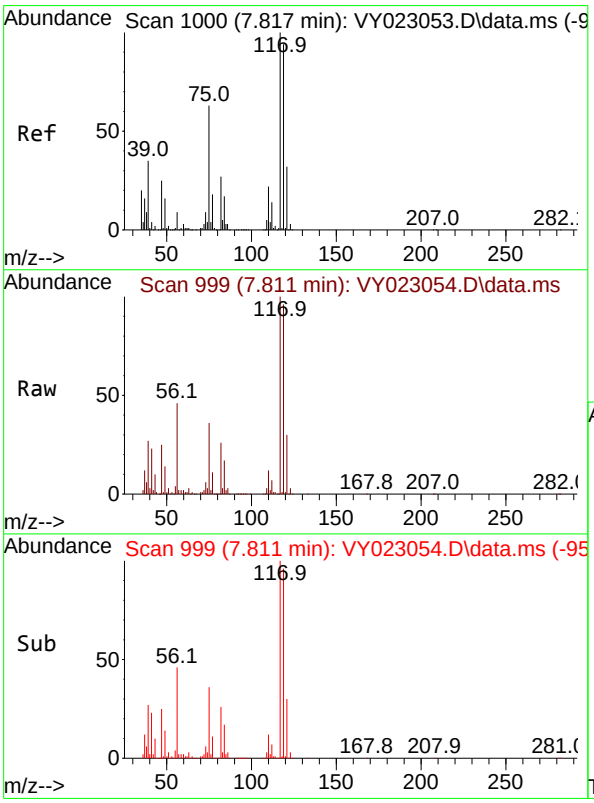

#37
Ethyl Acetate
Concen: 95.302 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 43 Resp: 313447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.1 | 11.9 | 17.9 |
| 70 | 11.2 | 8.8 | 13.2 |

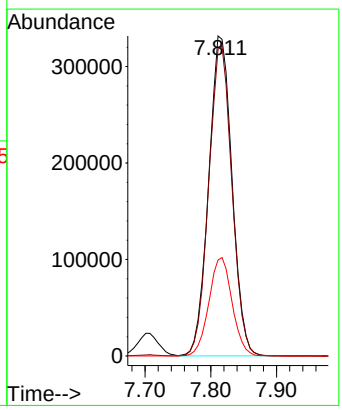


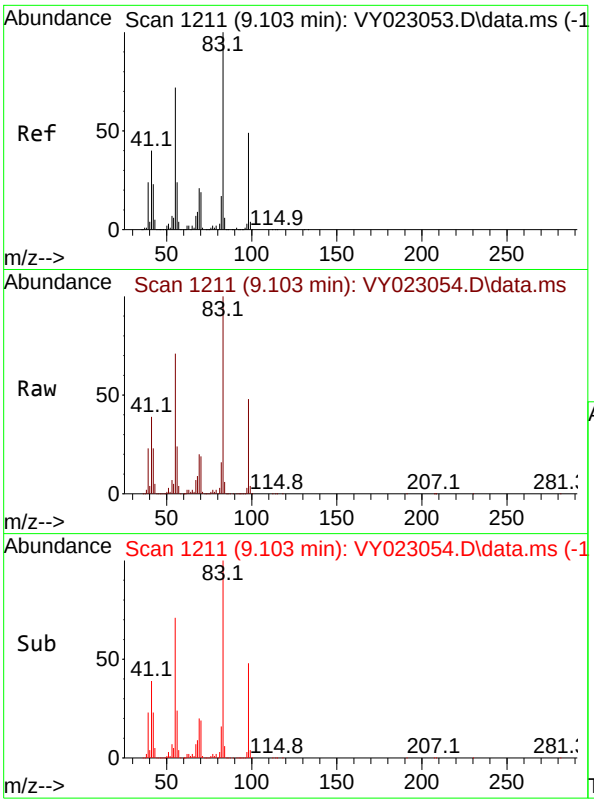




#38
Carbon Tetrachloride
Concen: 96.419 ug/l
RT: 7.811 min Scan# 999
Delta R.T. -0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:117 Resp: 819941

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.8 | 75.6 | 113.4 |
| 121 | 30.0 | 25.8 | 38.8 |



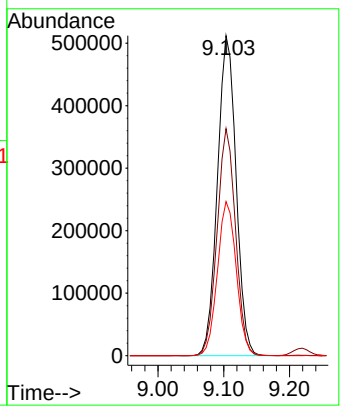


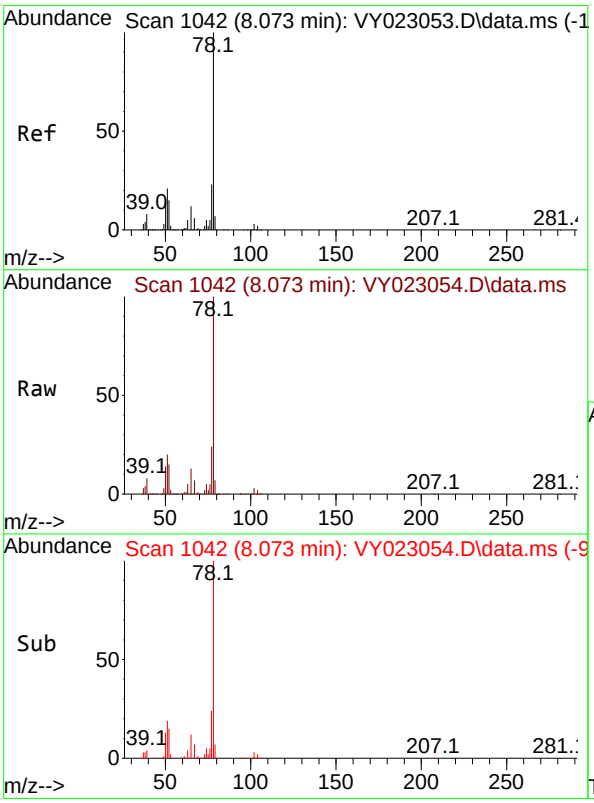

#39
Methylcyclohexane
Concen: 98.146 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 83 Resp: 1011944

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 70.9 | 57.6 | 86.4 |
| 98 | 48.2 | 39.2 | 58.8 |

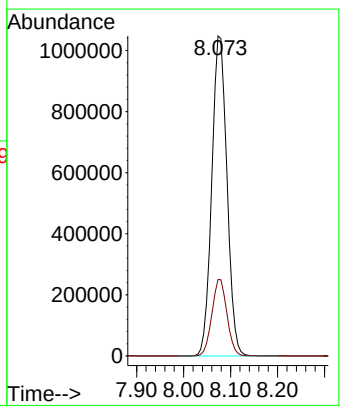


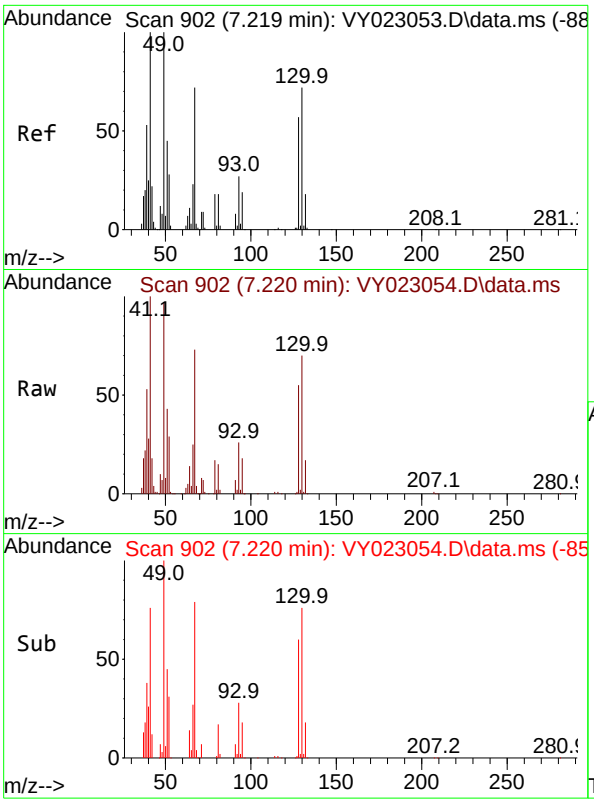




#40
Benzene
Concen: 97.324 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 78 Resp: 2348617

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.9 | 18.6 | 28.0 |



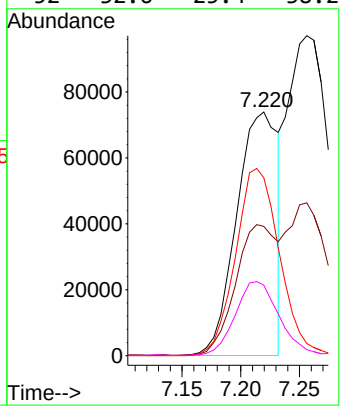


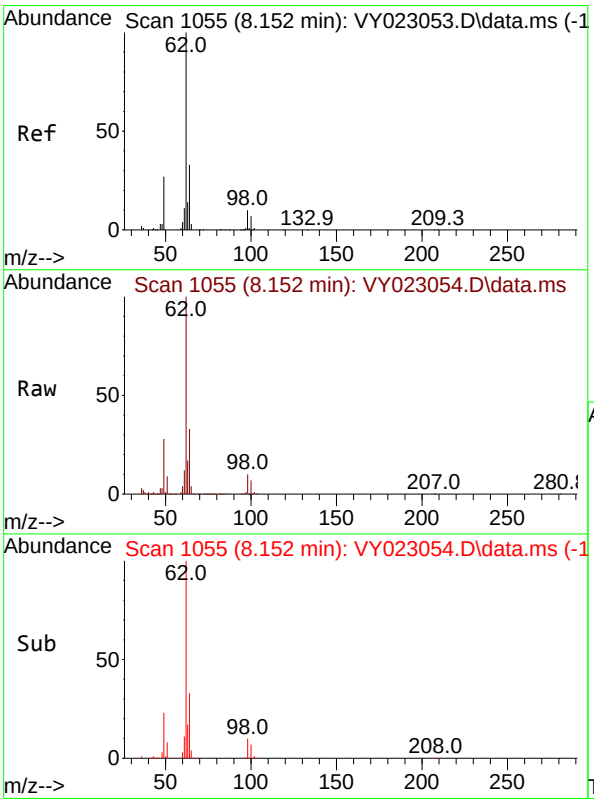

#41
Methacrylonitrile
Concen: 94.973 ug/l
RT: 7.220 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 41 Resp: 180468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 53.8 | 43.4 | 65.2 |
| 67 | 82.3 | 63.6 | 95.4 |
| 52 | 32.6 | 25.4 | 38.2 |

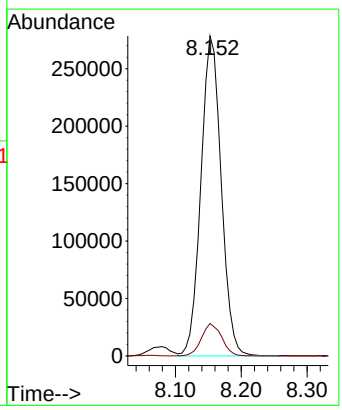


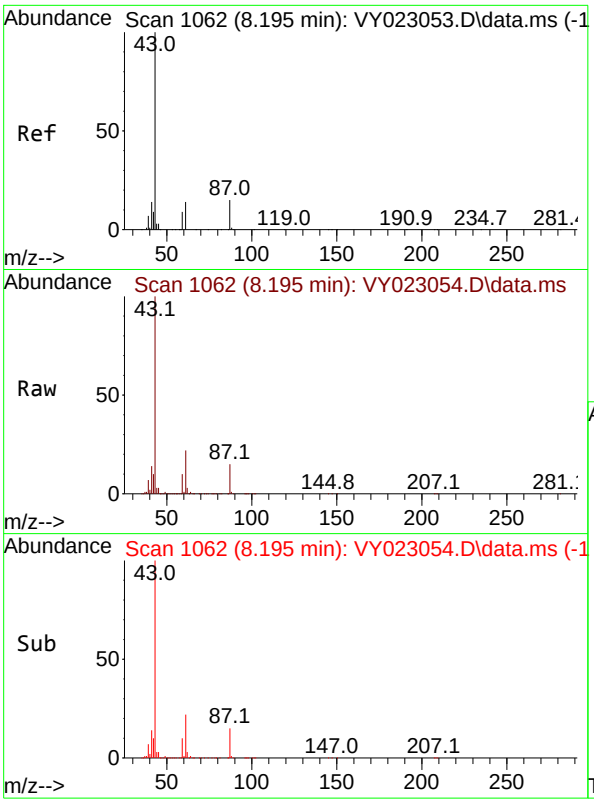




#42
1,2-Dichloroethane
Concen: 95.155 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 62 Resp: 597215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.1 | 0.0 | 20.6 |



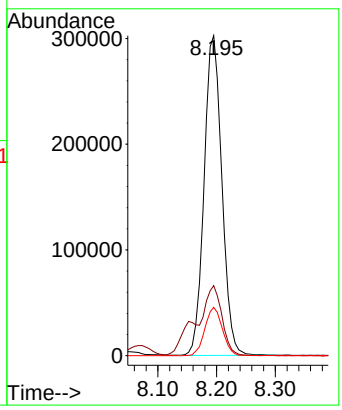


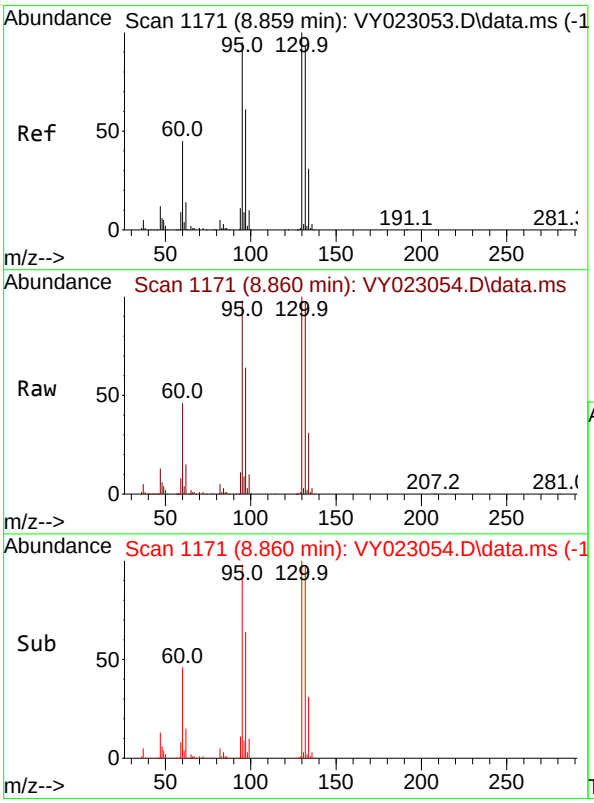

#43
Isopropyl Acetate
Concen: 95.780 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 43 Resp: 636710

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 21.0 | 16.4 | 24.6 |
| 87 | 14.9 | 11.8 | 17.6 |

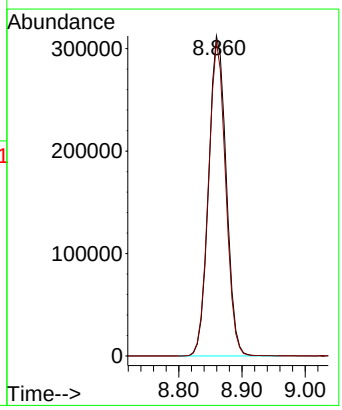


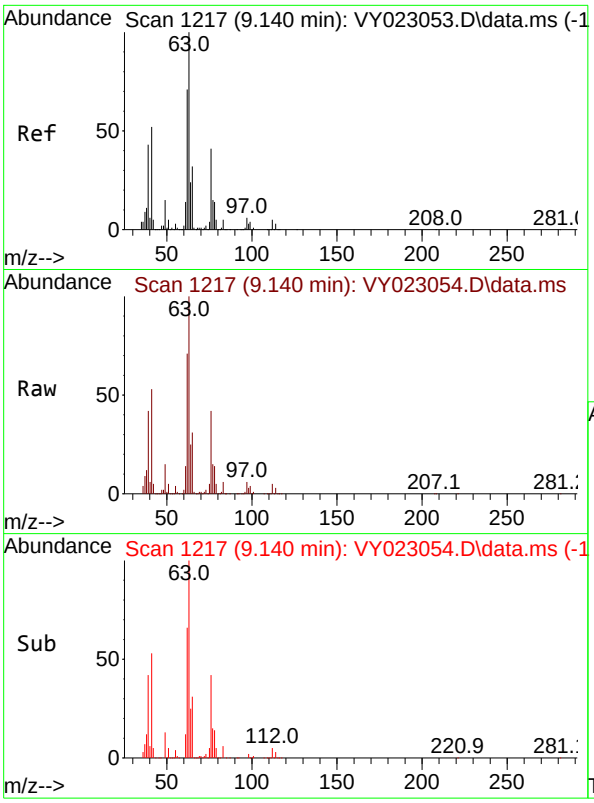




#44
Trichloroethene
Concen: 96.584 ug/l
RT: 8.860 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:130 Resp: 602322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 98.1 | 0.0 | 190.2 |



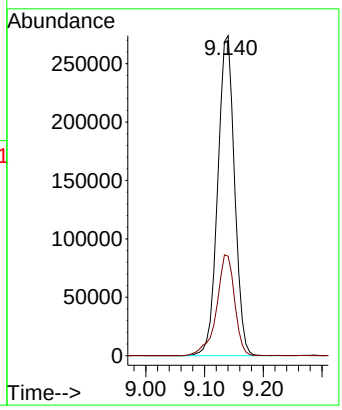


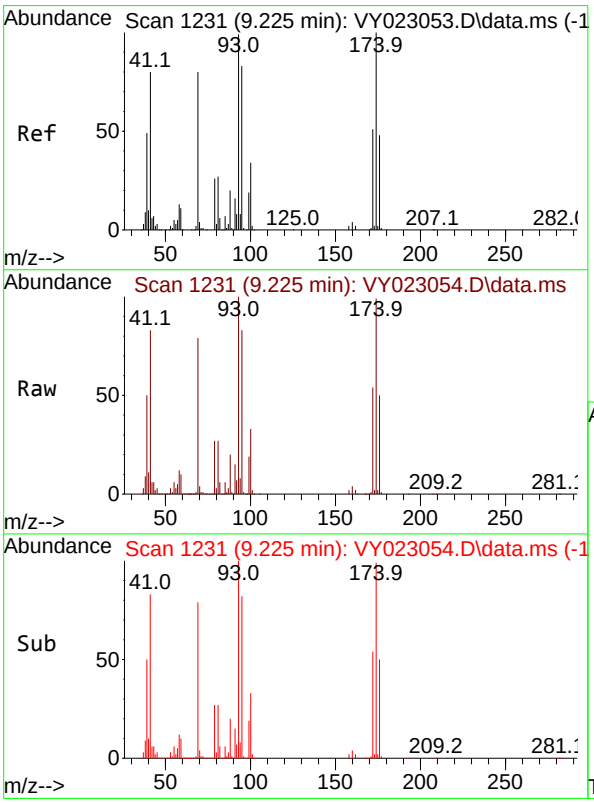

#45
1,2-Dichloropropane
Concen: 97.899 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 63 Resp: 543589

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.1 | 25.3 | 37.9 |

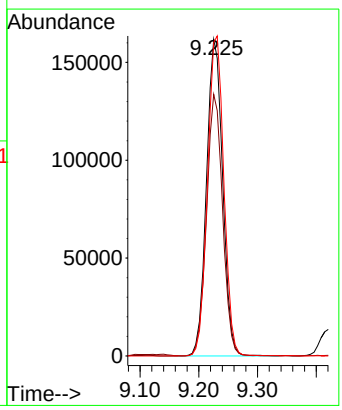


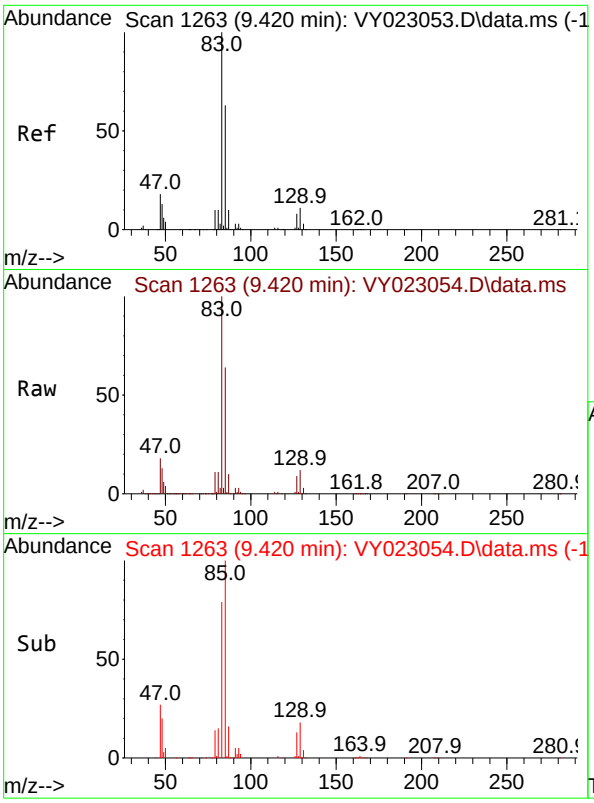




#46
Dibromomethane
Concen: 97.052 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 93 Resp: 309302

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 81.8 | 66.5 | 99.7 |
| 174 | 101.9 | 81.8 | 122.8 |



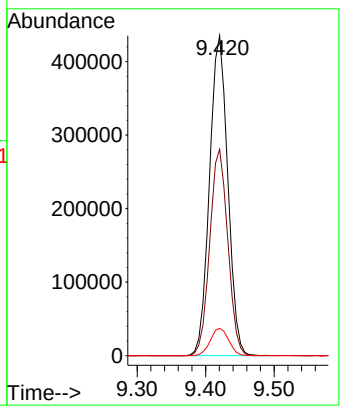


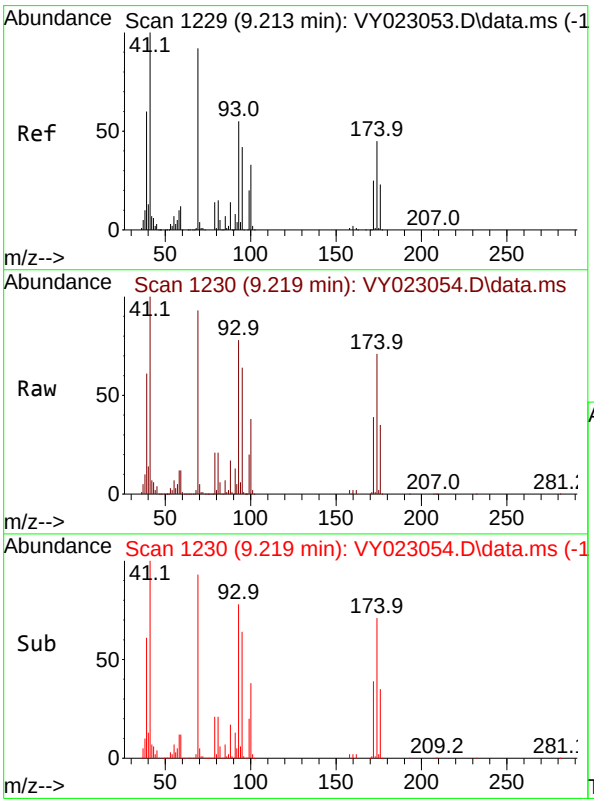

#47
Bromodichloromethane
Concen: 97.864 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 83 Resp: 802532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.5 | 50.2 | 75.4 |
| 127 | 8.5 | 6.6 | 10.0 |

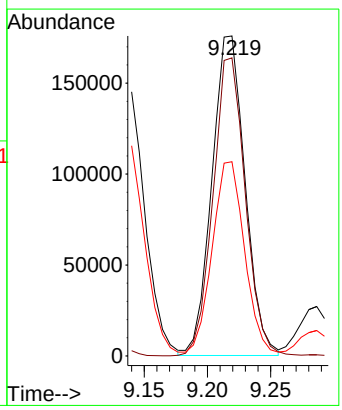


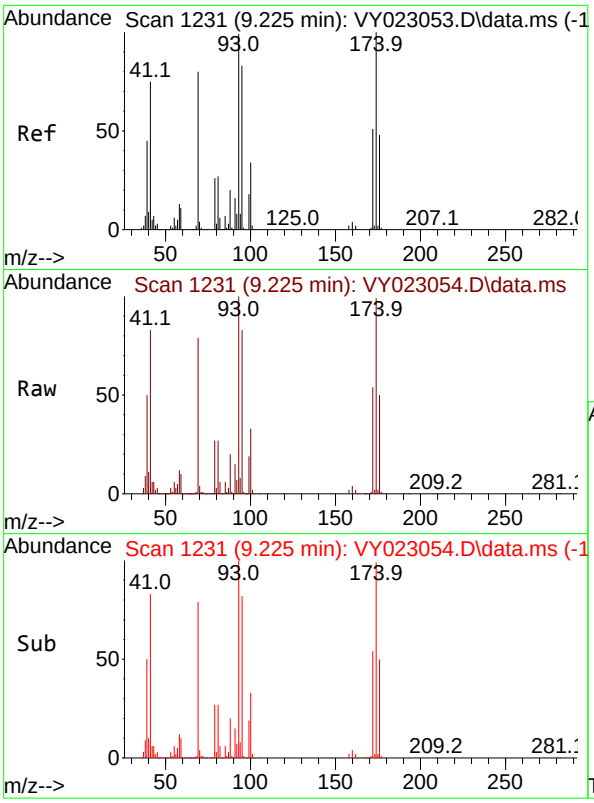




#48
Methyl methacrylate
Concen: 100.567 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 41 Resp: 319906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 91.4 | 73.2 | 109.8 |
| 39 | 57.6 | 47.0 | 70.4 |



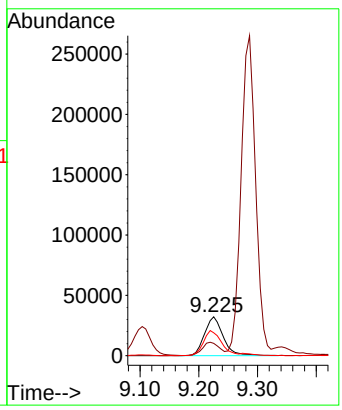


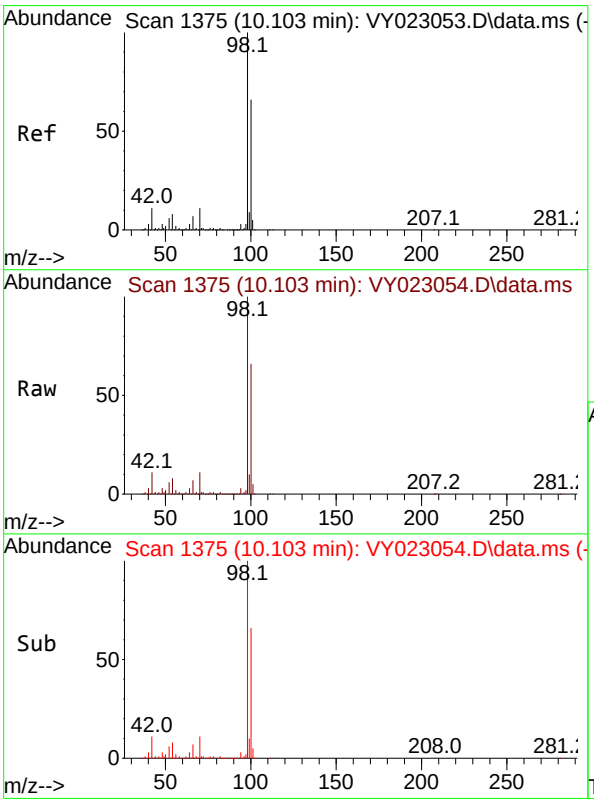

#49
1,4-Dioxane
Concen: 1908.039 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 88 Resp: 71300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 30.6 | 24.3 | 36.5 |
| 58 | 62.4 | 55.4 | 83.0 |

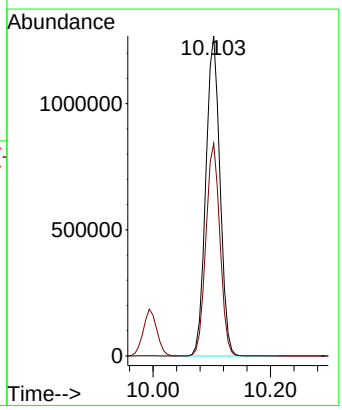


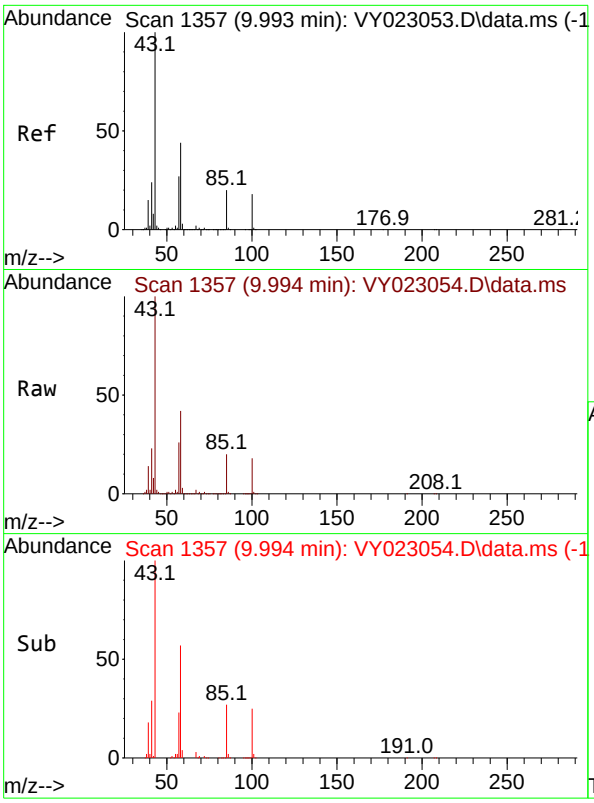




#50
Toluene-d8
Concen: 102.832 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 98 Resp: 2116445

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.1 | 52.3 | 78.5 |



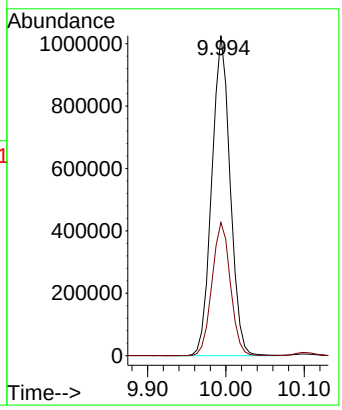


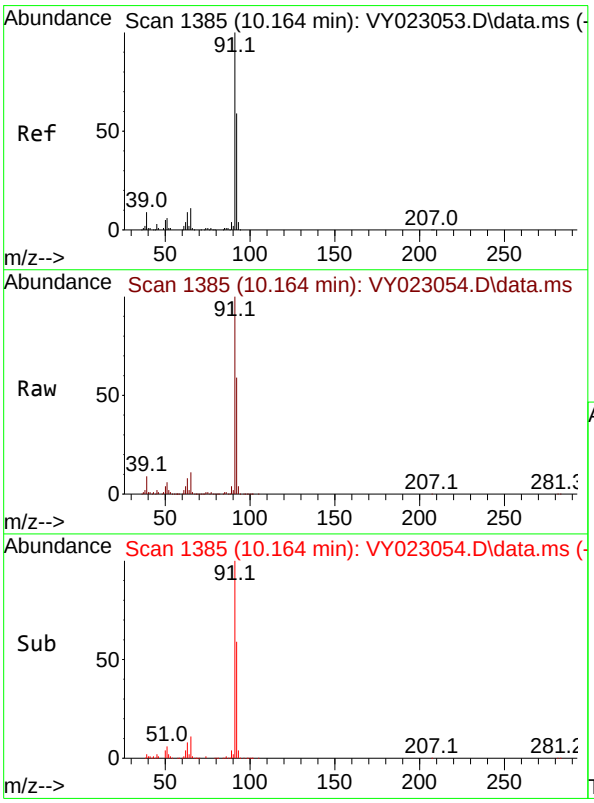

#51
4-Methyl-2-Pentanone
Concen: 486.924 ug/l
RT: 9.994 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 43 Resp: 1669668

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 41.8 | 33.5 | 50.3 |

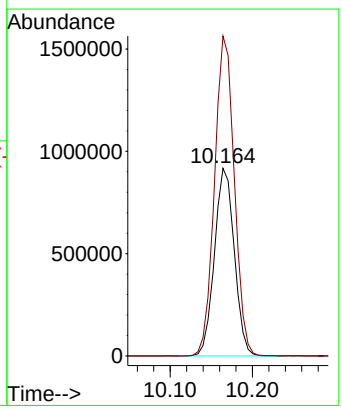


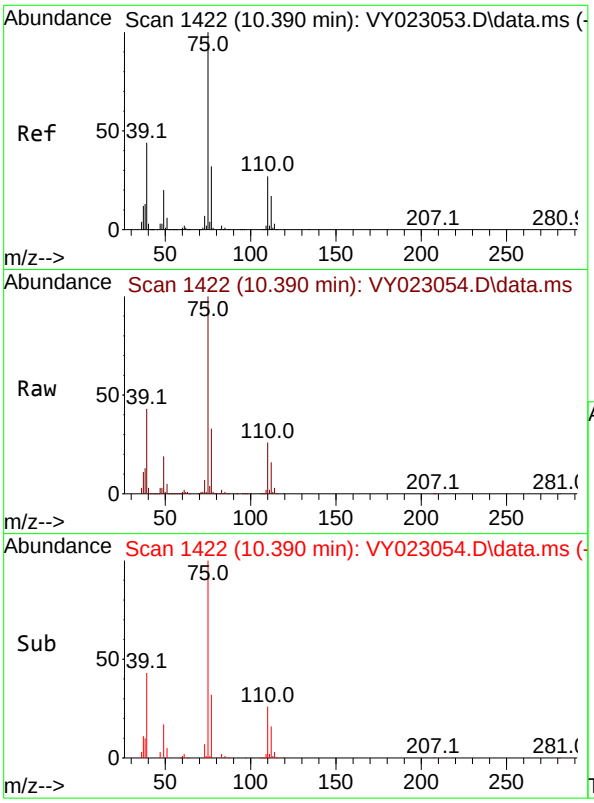




#52
Toluene
Concen: 100.288 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 92 Resp: 1537088

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 170.5 | 136.4 | 204.6 |



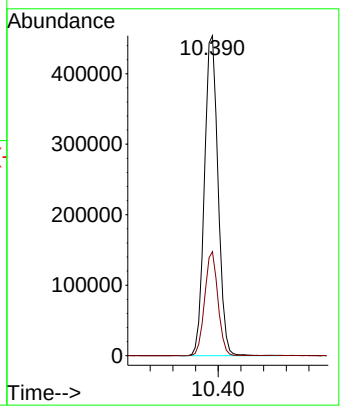


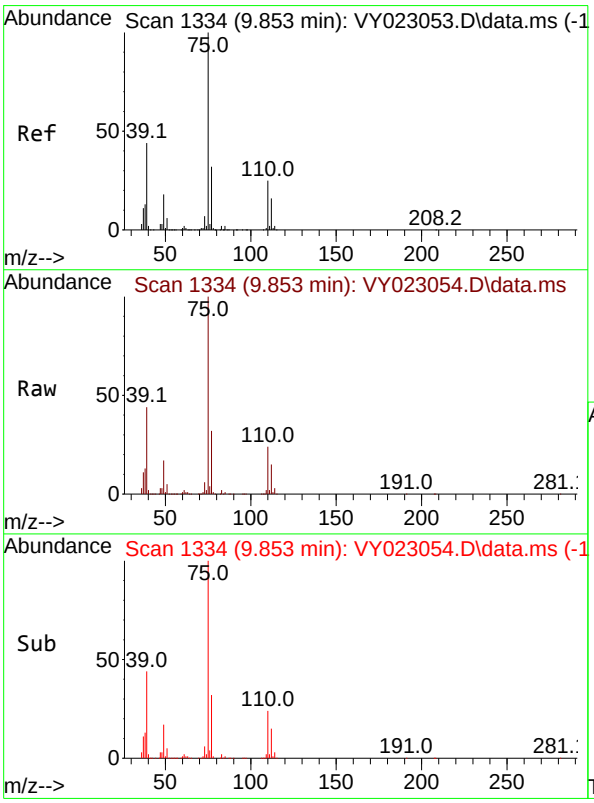

#53
t-1,3-Dichloropropene
Concen: 101.574 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 75 Resp: 754278

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.5 | 25.7 | 38.5 |

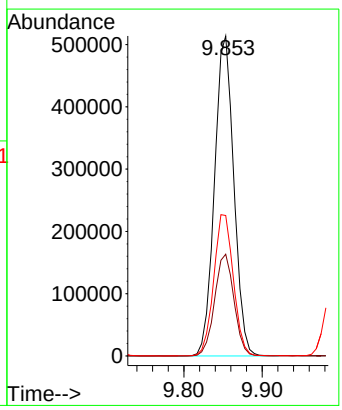


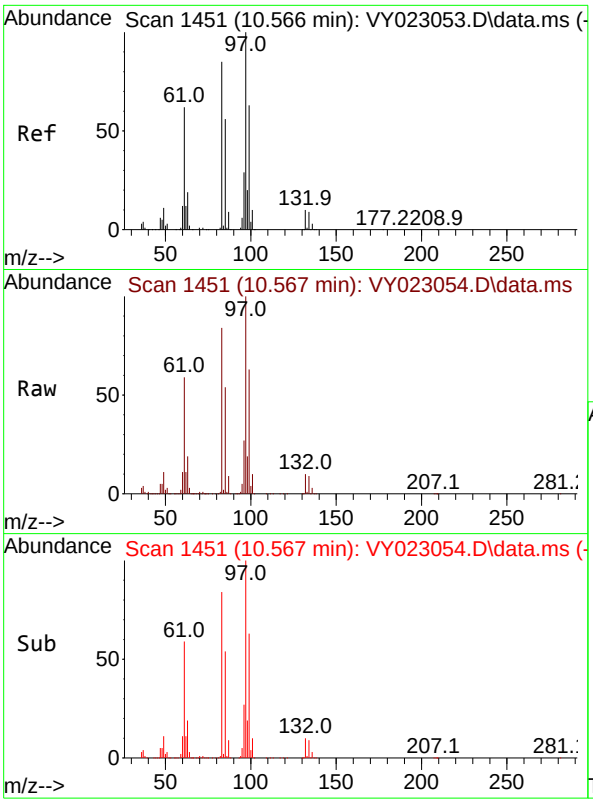




#54
cis-1,3-Dichloropropene
Concen: 100.281 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 75 Resp: 880571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.8 | 25.4 | 38.0 |
| 39 | 43.9 | 35.6 | 53.4 |



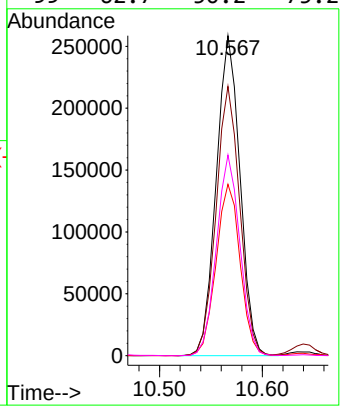


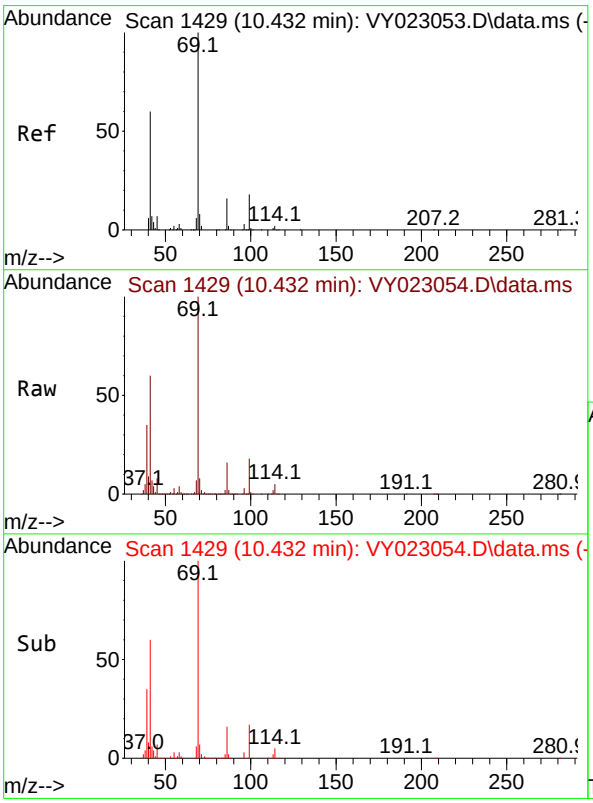

#55
1,1,2-Trichloroethane
Concen: 97.446 ug/l
RT: 10.567 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 97 Resp: 415556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 84.2 | 67.7 | 101.5 |
| 85 | 53.5 | 44.5 | 66.7 |
| 99 | 62.7 | 50.2 | 75.2 |

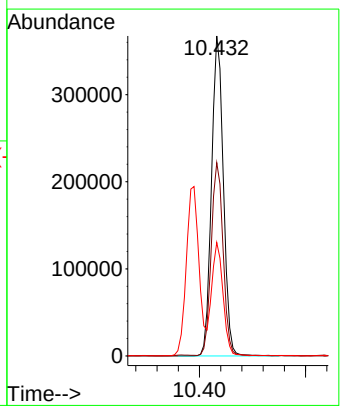


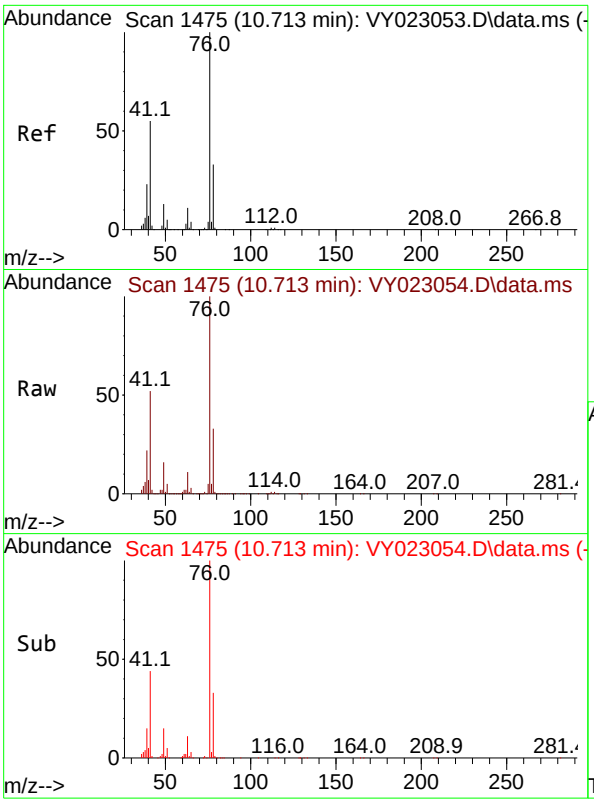




#56
Ethyl methacrylate
Concen: 104.375 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 69 Resp: 569556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 60.4 | 48.6 | 72.8 |
| 39 | 33.4 | 27.0 | 40.4 |



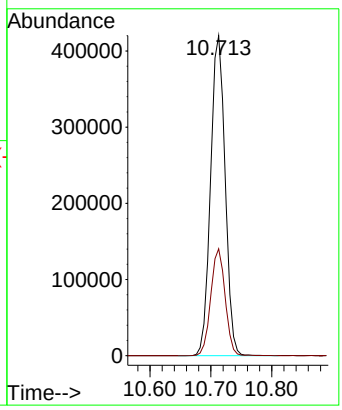


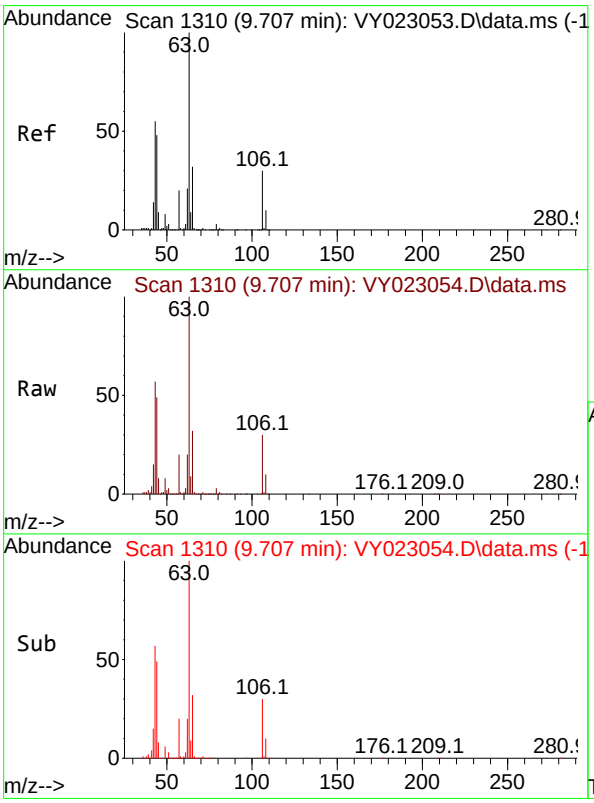

#57
1,3-Dichloropropane
Concen: 96.253 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 76 Resp: 696130

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 33.0 | 26.0 | 39.0 |

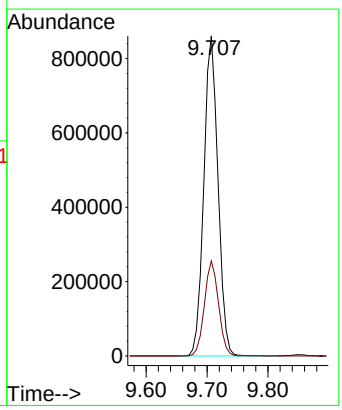


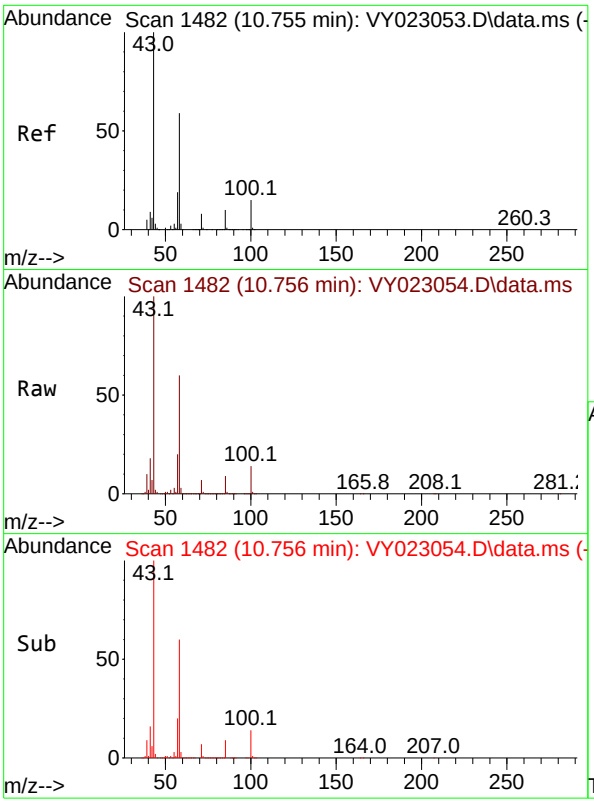




#58
2-Chloroethyl Vinyl ether
Concen: 539.957 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 63 Resp: 1389847

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 29.5 | 23.2 | 34.8 |



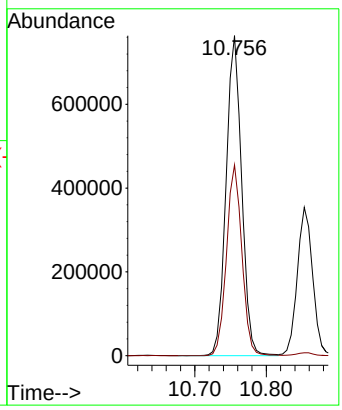


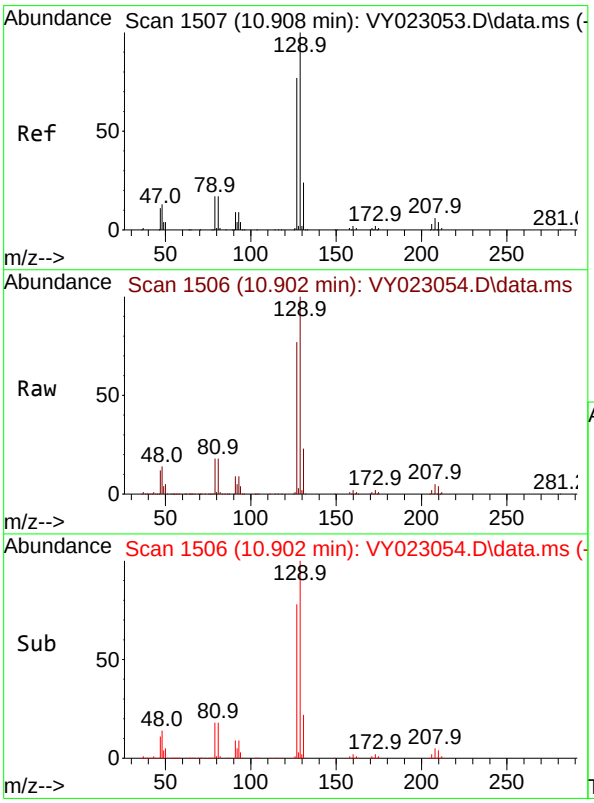

#59
2-Hexanone
Concen: 492.950 ug/l
RT: 10.756 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 43 Resp: 1151000

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 58.9 | 29.5 | 88.5 |

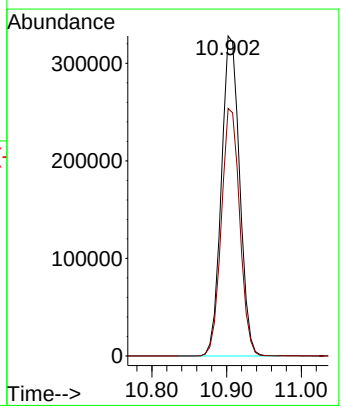


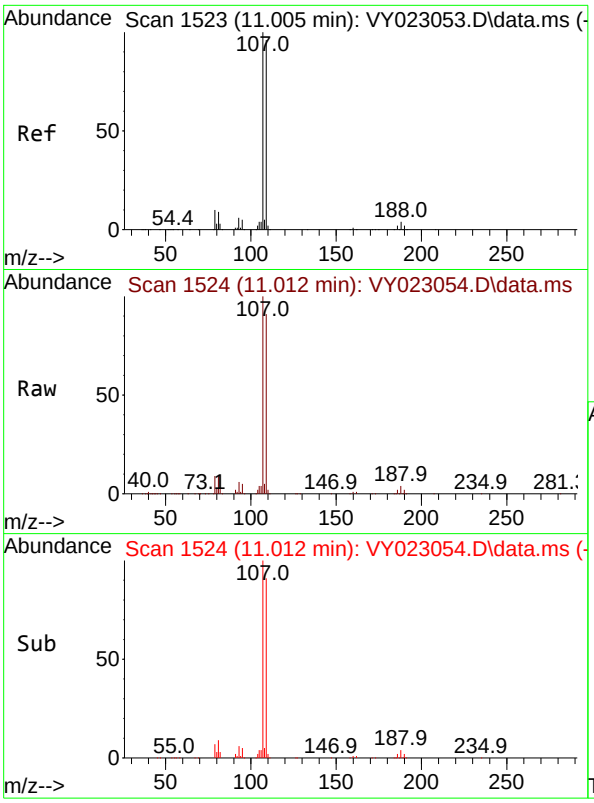




#60
Dibromochloromethane
Concen: 99.024 ug/l
RT: 10.902 min Scan# 1506
Delta R.T. -0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:129 Resp: 557205

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.8 | 38.5 | 115.5 |



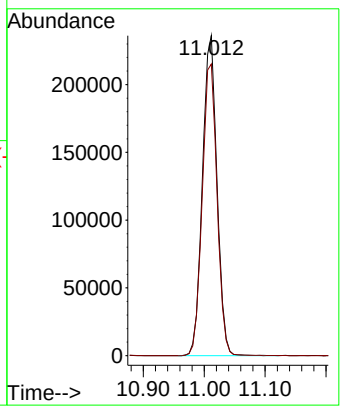


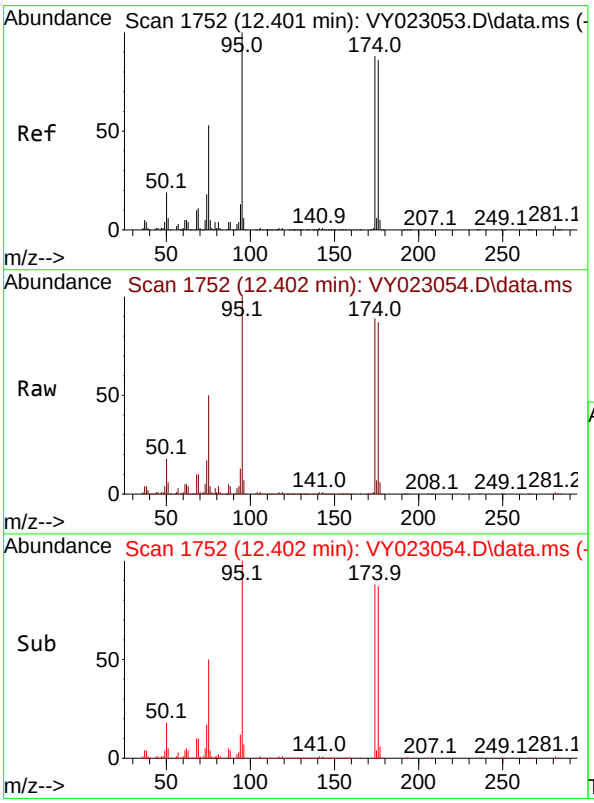

#61
1,2-Dibromoethane
Concen: 97.713 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:107 Resp: 391650

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 92.9 | 75.6 | 113.4 |

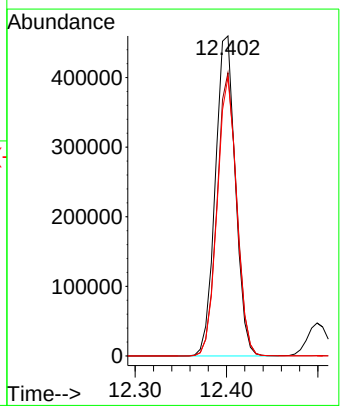


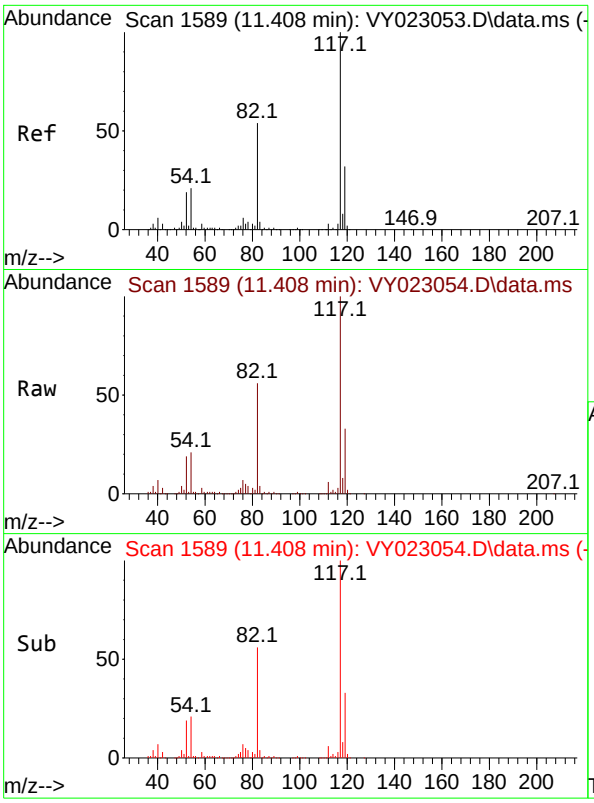




#62
4-Bromofluorobenzene
Concen: 106.147 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 95 Resp: 702583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 86.7 | 0.0 | 171.6 |
| 176 | 84.8 | 0.0 | 167.6 |



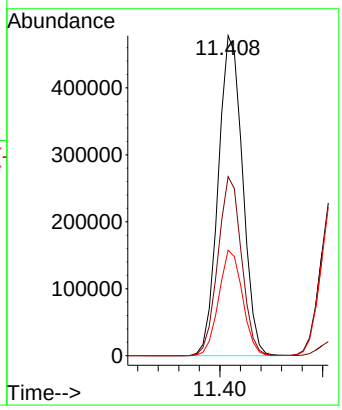


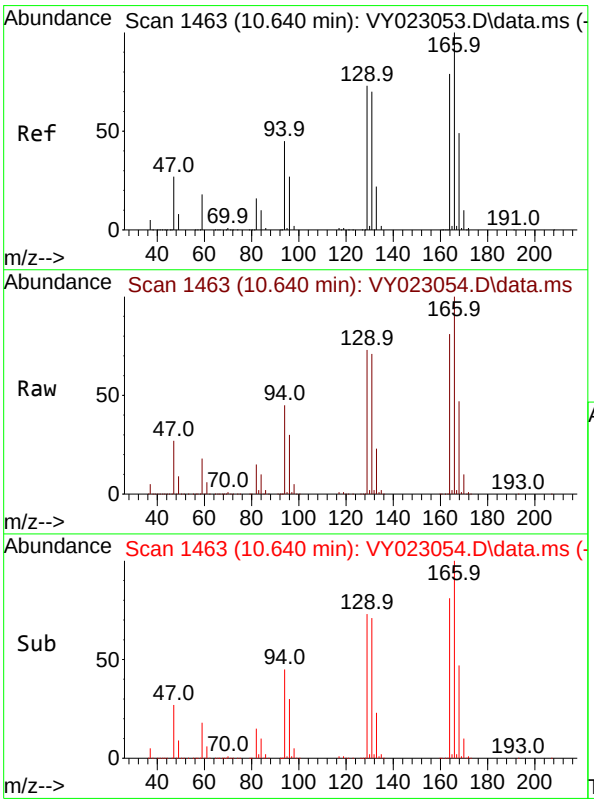

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:117 Resp: 784385

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 56.0 | 43.4 | 65.0 |
| 119 | 33.0 | 25.6 | 38.4 |

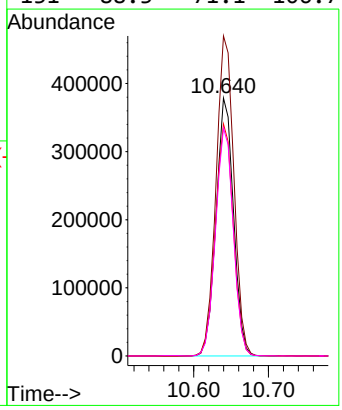


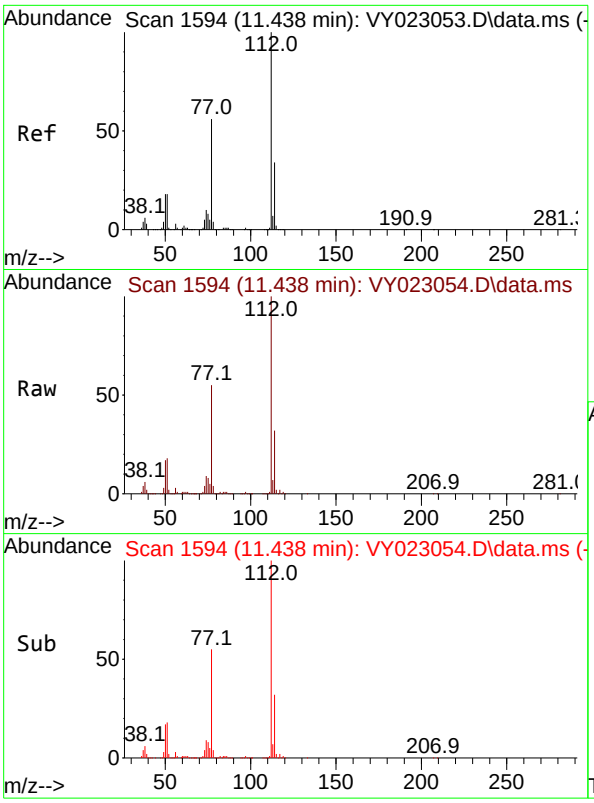




#64
Tetrachloroethene
Concen: 87.931 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:164 Resp: 615871

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 124.1 | 101.1 | 151.7 |
| 129 | 90.0 | 74.0 | 111.0 |
| 131 | 88.3 | 71.1 | 106.7 |



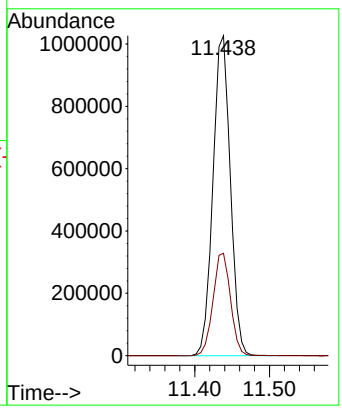


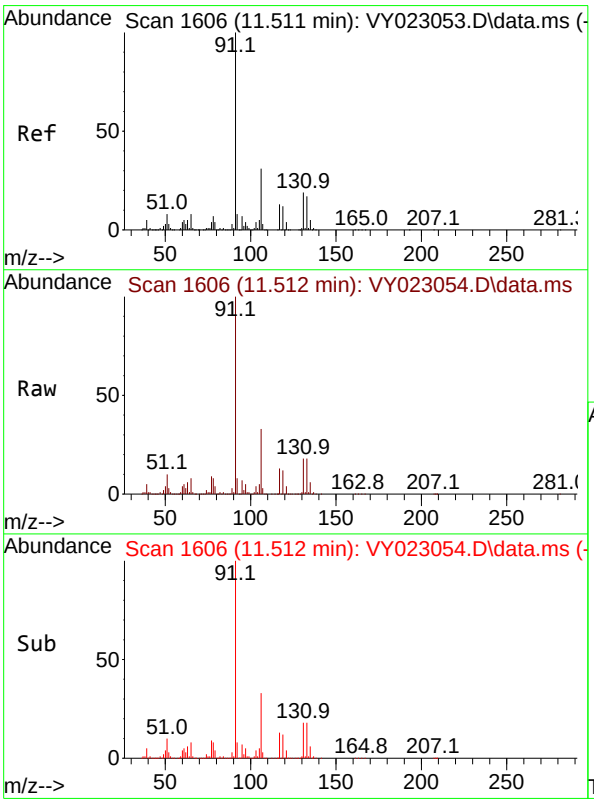

#65
Chlorobenzene
Concen: 98.004 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:112 Resp: 1658154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.0 | 27.0 | 40.4 |

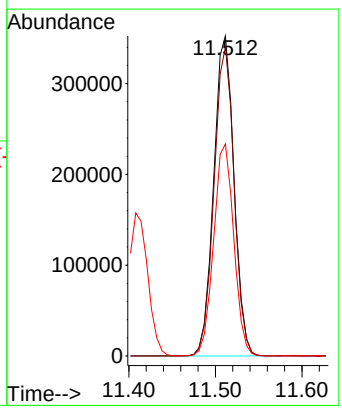


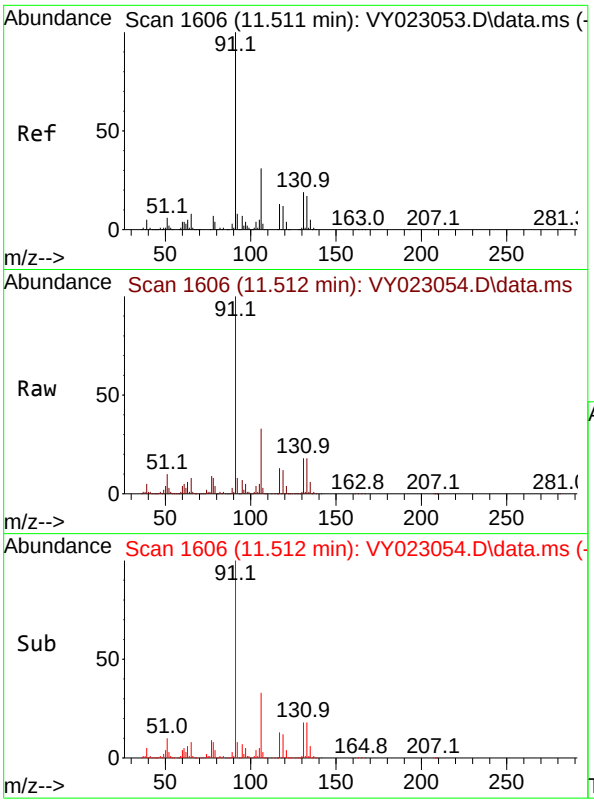




#66
1,1,1,2-Tetrachloroethane
Concen: 99.810 ug/l
RT: 11.512 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:131 Resp: 573131

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.5 | 46.9 | 140.6 |
| 119 | 65.9 | 33.2 | 99.6 |



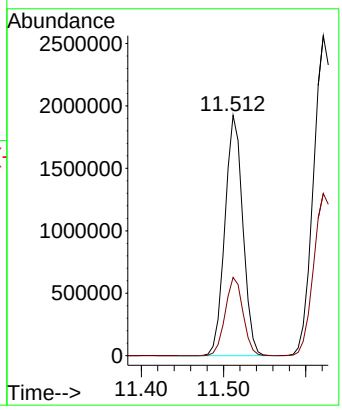


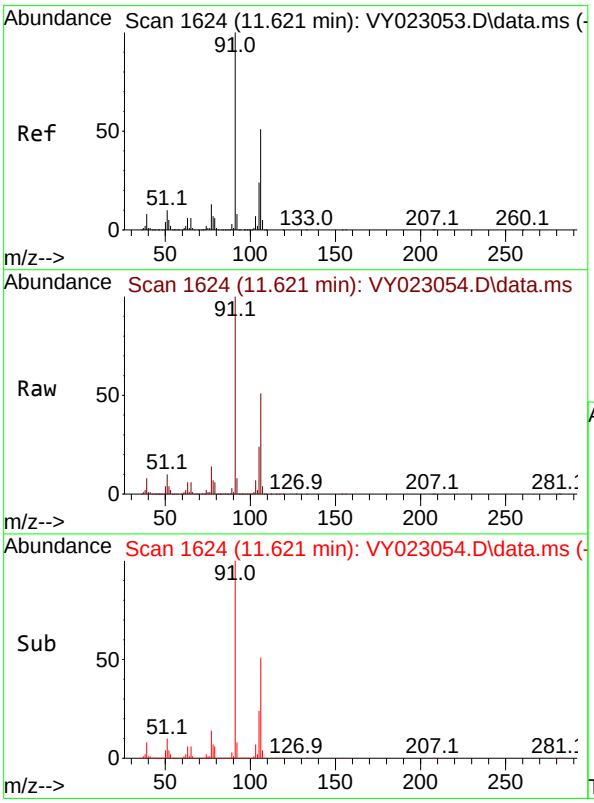

#67
Ethyl Benzene
Concen: 100.082 ug/l
RT: 11.512 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 91 Resp: 2914020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 32.5 | 25.0 | 37.4 |

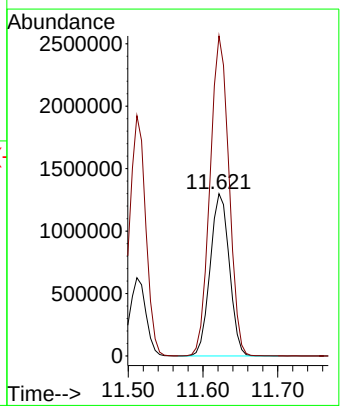


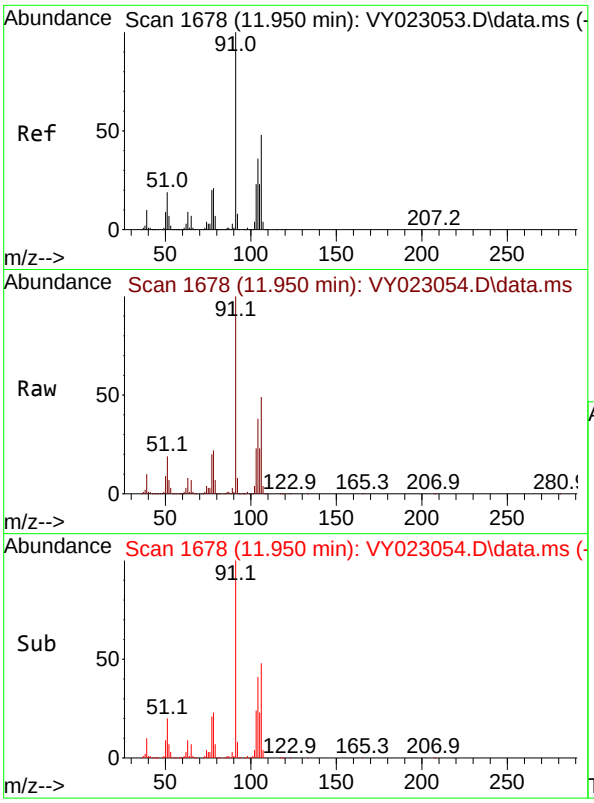




#68
m/p-Xylenes
Concen: 203.363 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:106 Resp: 2312597

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 195.1 | 158.6 | 238.0 |



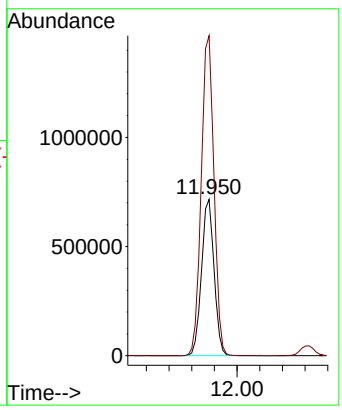


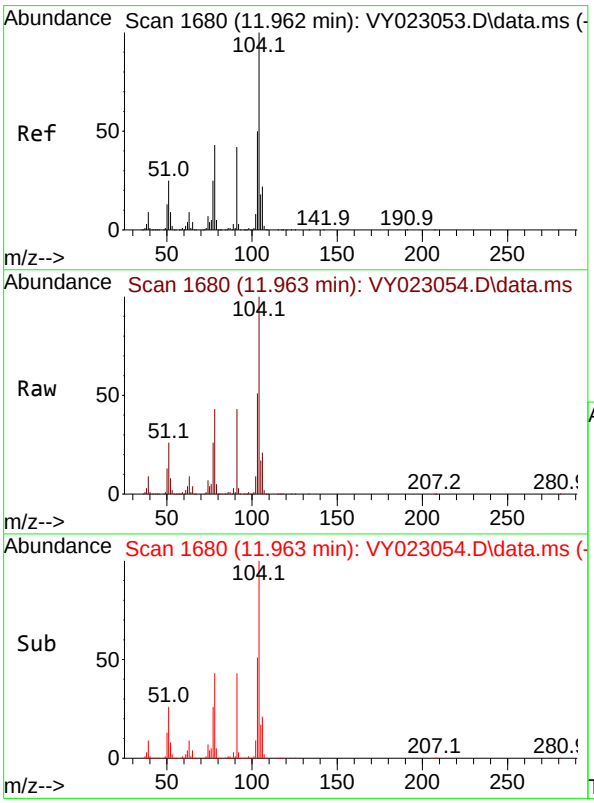

#69
o-Xylene
Concen: 103.373 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:106 Resp: 1100998

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 207.5 | 103.2 | 309.4 |

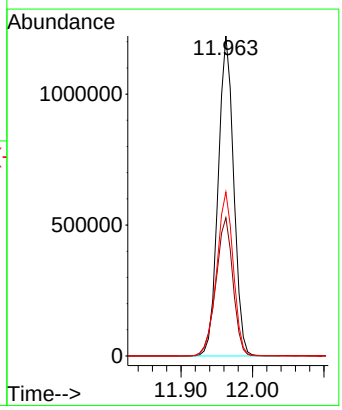


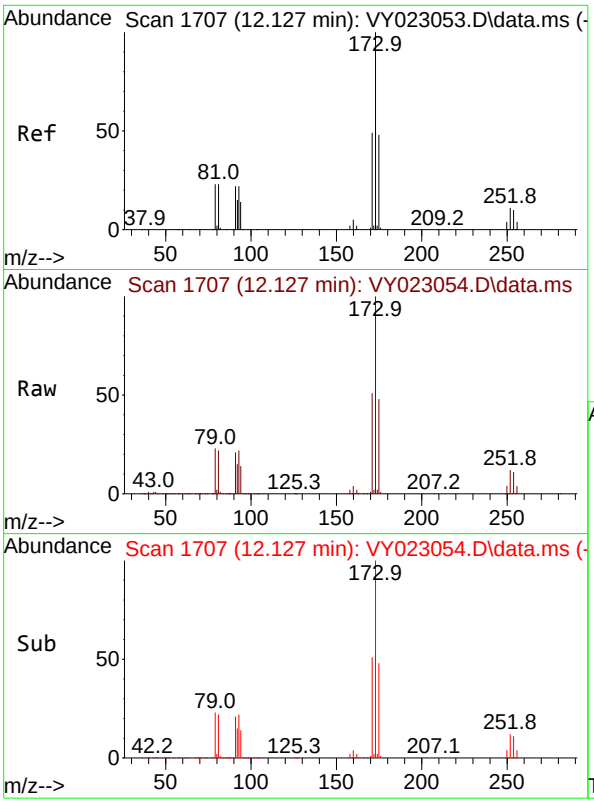




#70
Styrene
Concen: 105.953 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:104 Resp: 1845480

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 47.4 | 38.5 | 57.7 |
| 103 | 54.9 | 43.7 | 65.5 |



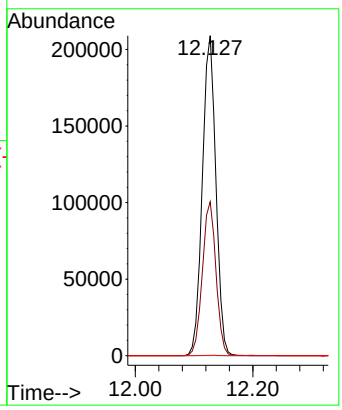


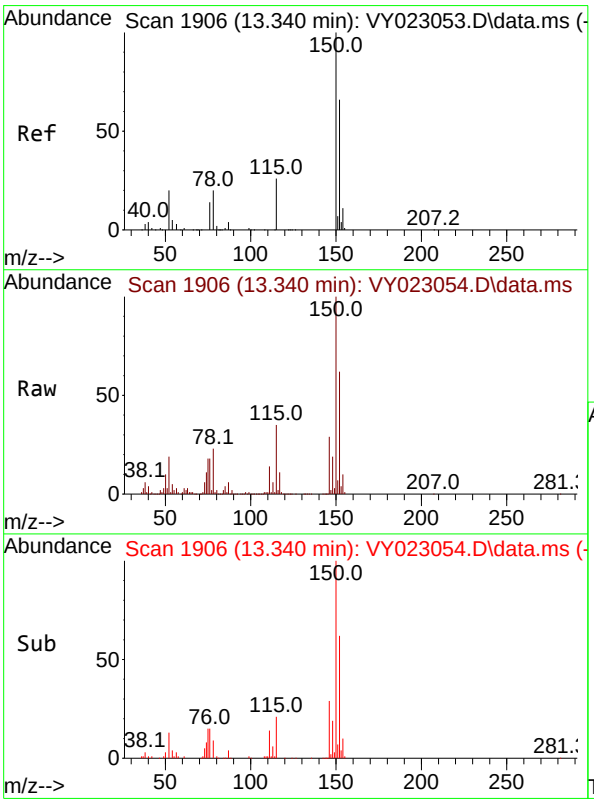

#71
Bromoform
Concen: 99.786 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:173 Resp: 334886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.4 | 23.9 | 71.7 |
| 254 | 0.1 | 0.1 | 0.1# |

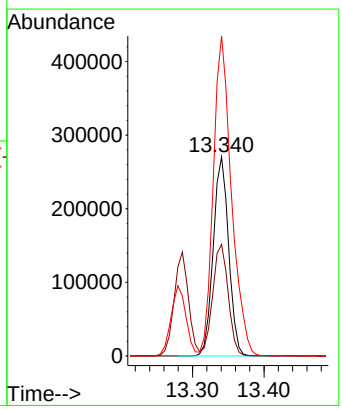


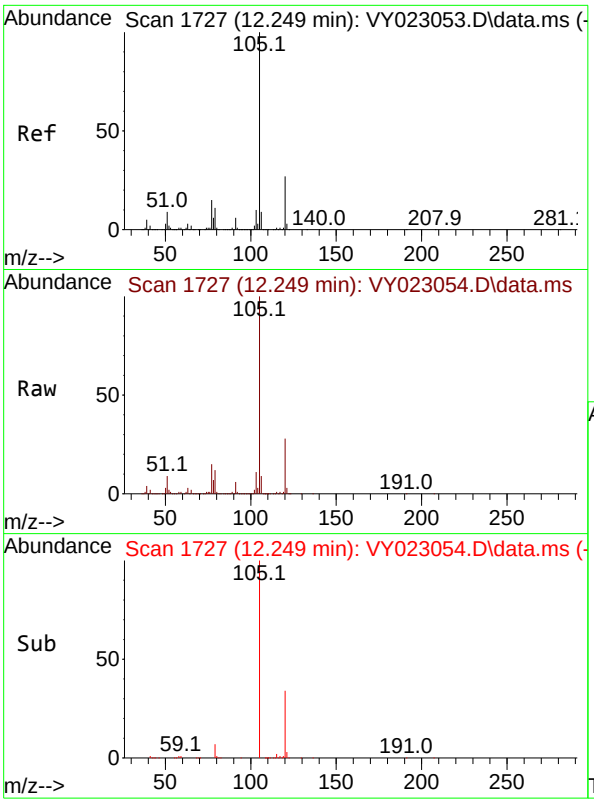




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:152 Resp: 404136

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 56.4 | 28.2 | 84.6 |
| 150 | 189.2 | 0.0 | 348.0 |



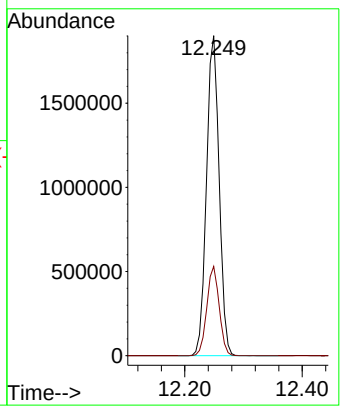


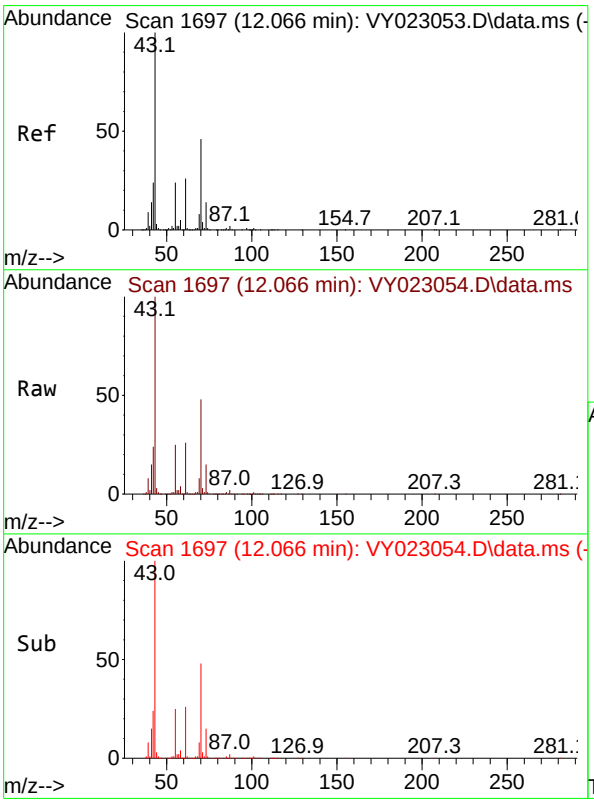

#73
Isopropylbenzene
Concen: 99.567 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:105 Resp: 2839999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.3 | 13.4 | 40.2 |

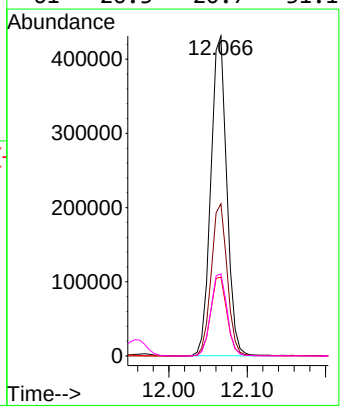


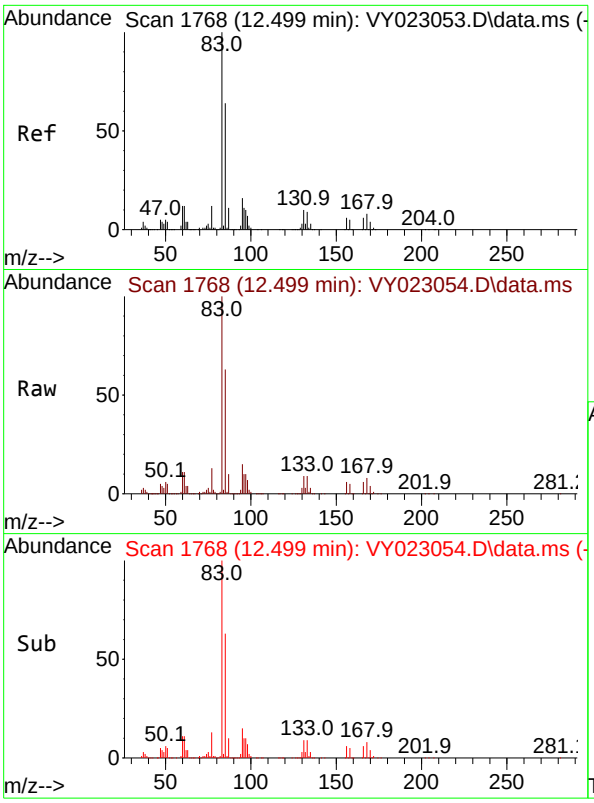




#74
N-amyl acetate
Concen: 100.955 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 43 Resp: 610668

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 47.8 | 37.5 | 56.3 |
| 55 | 25.3 | 20.7 | 31.1 |
| 61 | 26.3 | 20.7 | 31.1 |



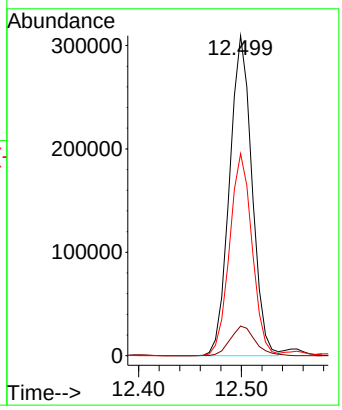


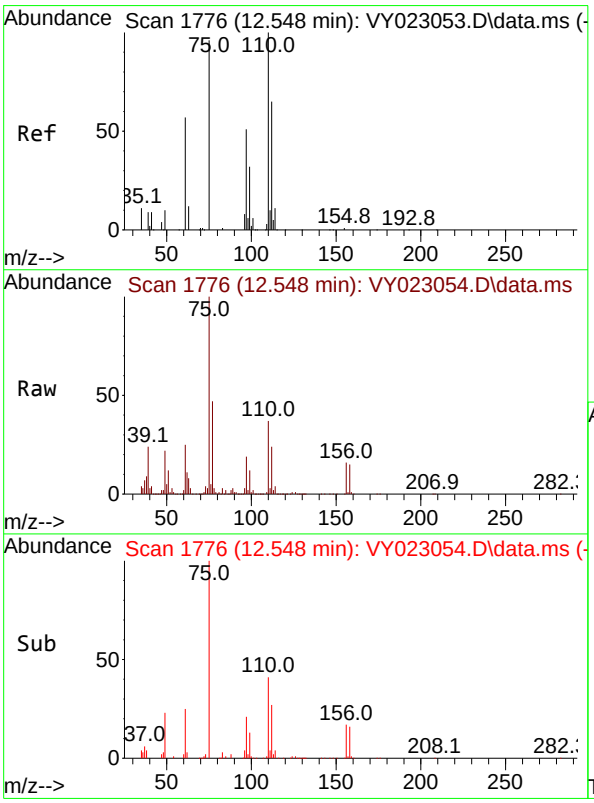

#75
1,1,2,2-Tetrachloroethane
Concen: 96.464 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 83 Resp: 469810

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.3 | 5.1 | 15.3 |
| 85 | 63.3 | 31.8 | 95.3 |

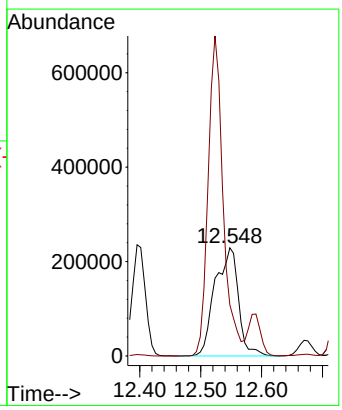


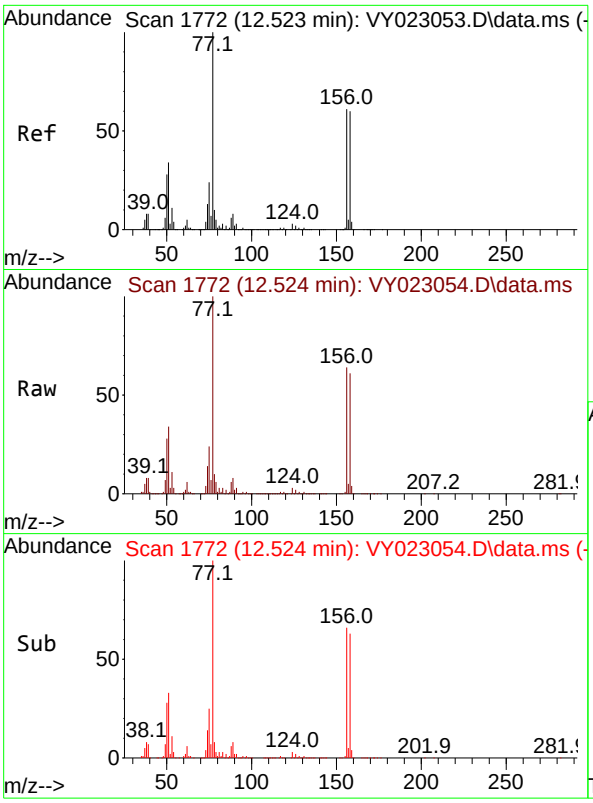




#76
1,2,3-Trichloropropane
Concen: 156.388 ug/l
RT: 12.548 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 75 Resp: 610364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |



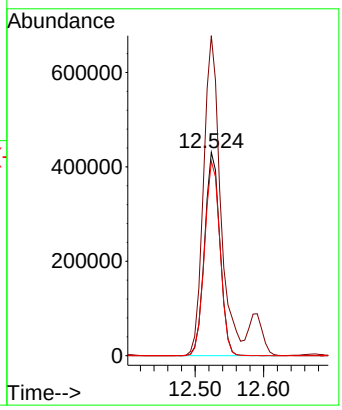


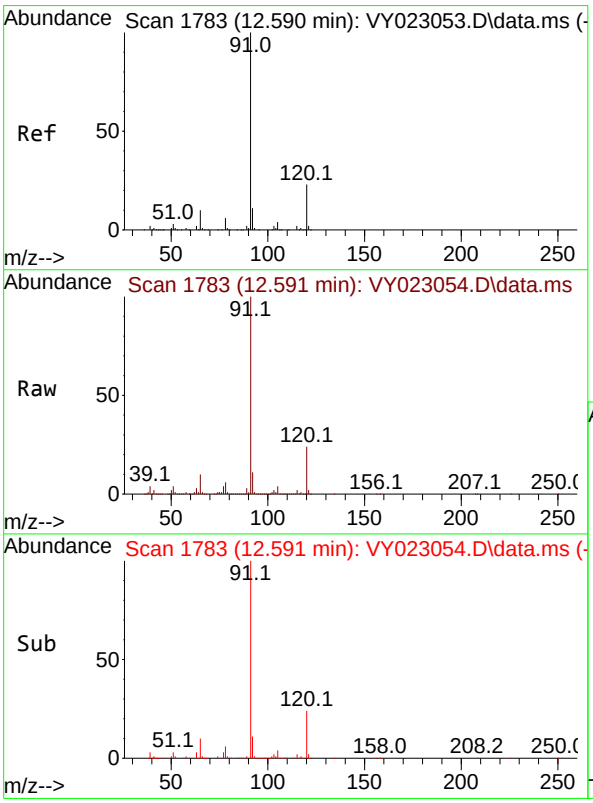

#77
Bromobenzene
Concen: 98.655 ug/l
RT: 12.524 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:156 Resp: 671329

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 172.8 | 88.1 | 264.4 |
| 158 | 96.5 | 48.0 | 144.0 |

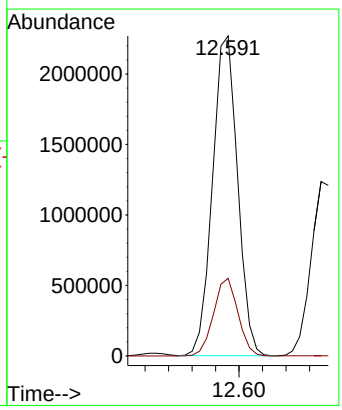


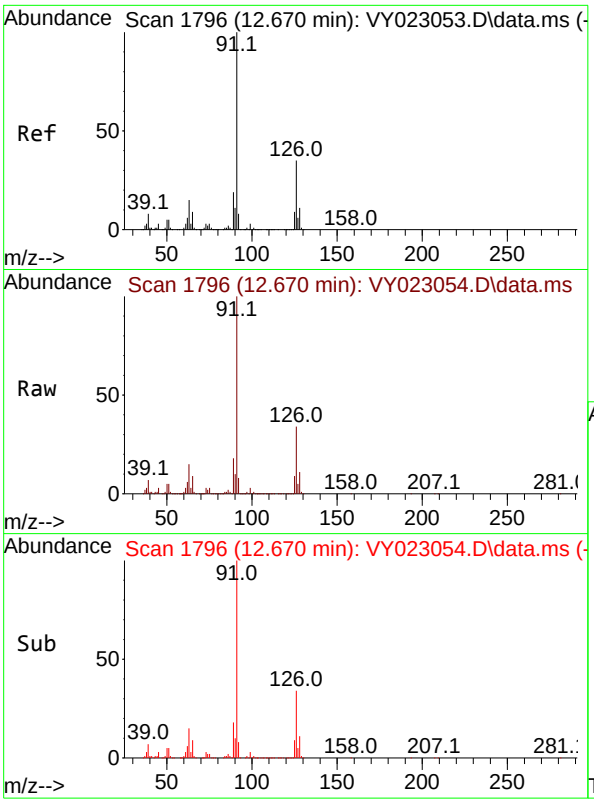




#78
n-propylbenzene
Concen: 98.963 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 91 Resp: 3360679

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 23.6 | 11.5 | 34.5 |



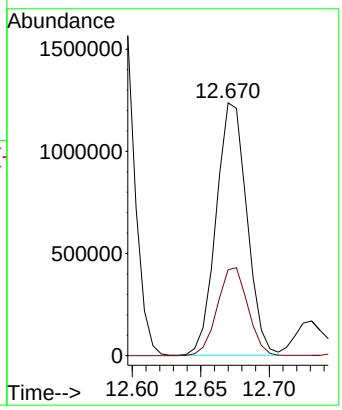


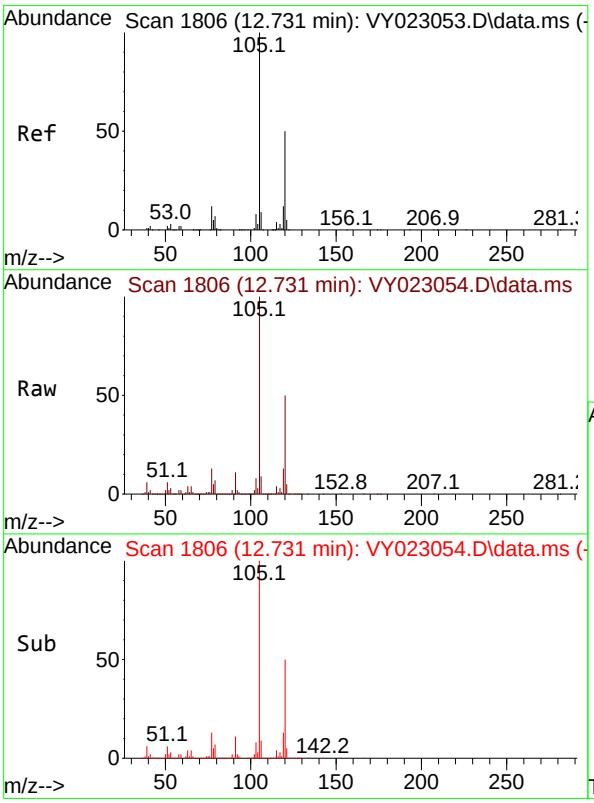

#79
2-Chlorotoluene
Concen: 99.268 ug/l
RT: 12.670 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 91 Resp: 1931460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.7 | 17.4 | 52.3 |

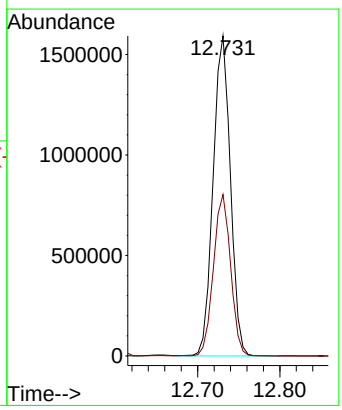


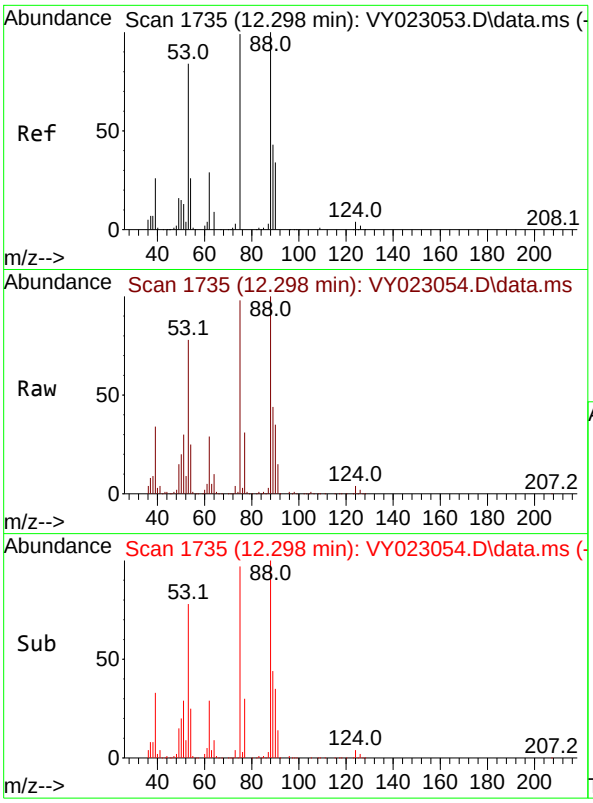




#80
1,3,5-Trimethylbenzene
Concen: 100.707 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:105 Resp: 2321527

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 50.2 | 24.8 | 74.4 |



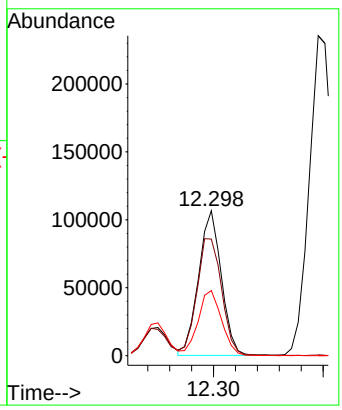


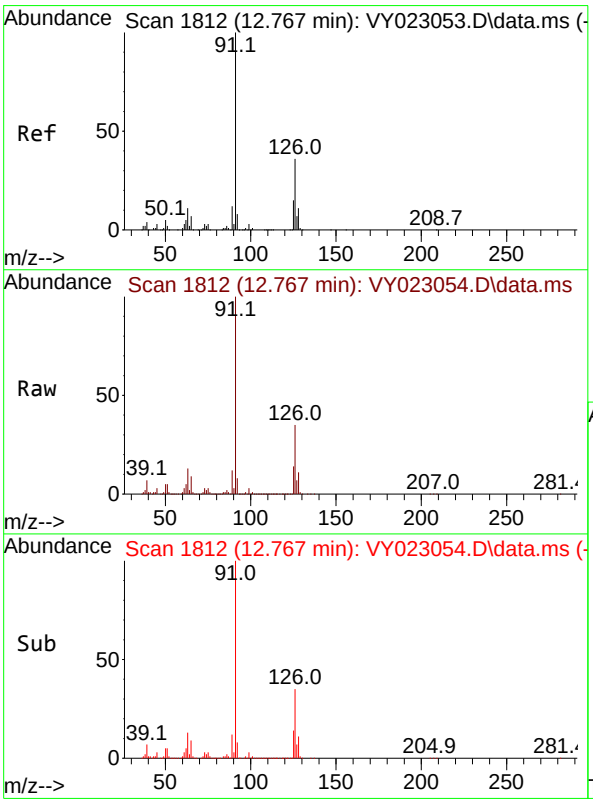

#81
trans-1,4-Dichloro-2-butene
Concen: 95.118 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 75 Resp: 153260

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 88.4 | 70.8 | 106.2 |
| 89 | 47.0 | 38.1 | 57.1 |

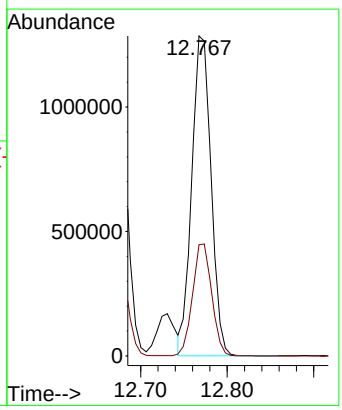


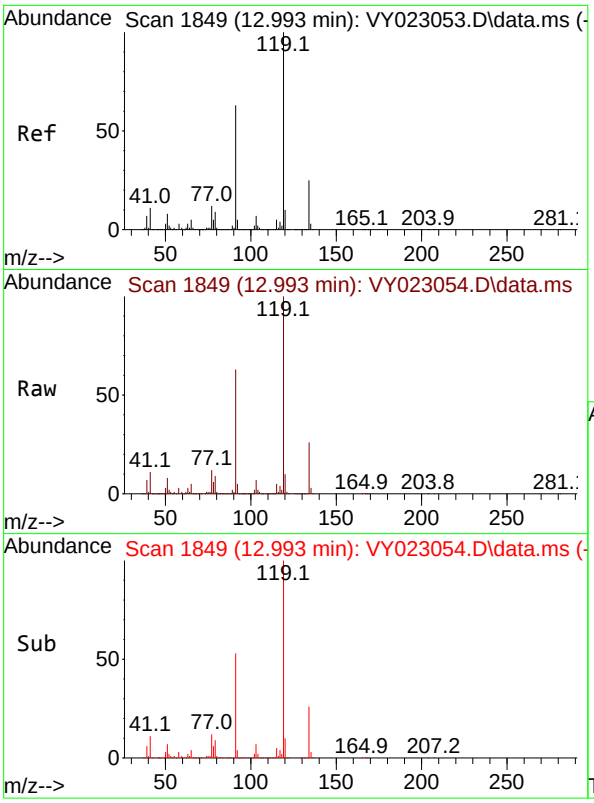




#82
4-Chlorotoluene
Concen: 98.519 ug/l
RT: 12.767 min Scan# 1812
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 91 Resp: 1988544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.9 | 17.3 | 52.0 |



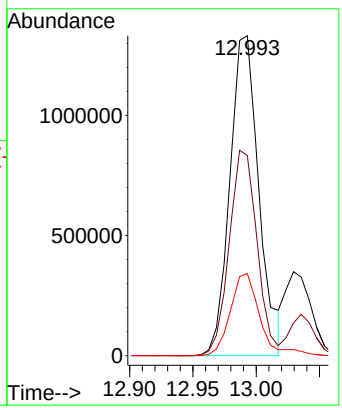


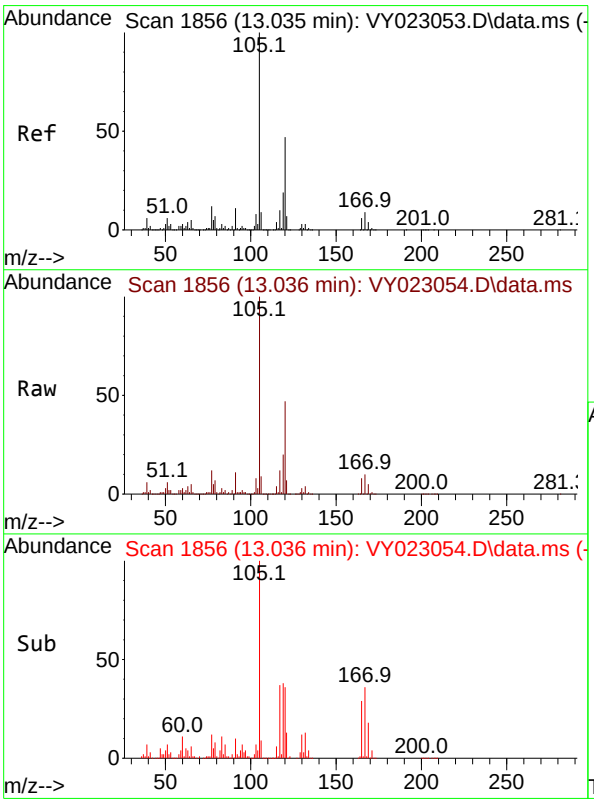

#83
tert-Butylbenzene
Concen: 102.102 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:119 Resp: 2125785

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 61.6 | 31.6 | 94.8 |
| 134 | 26.2 | 12.9 | 38.7 |

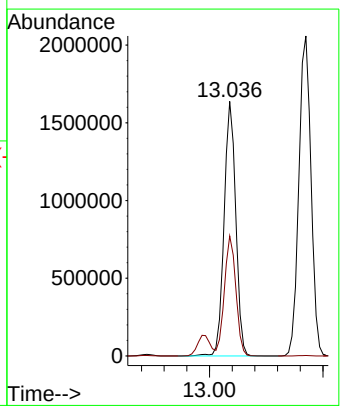


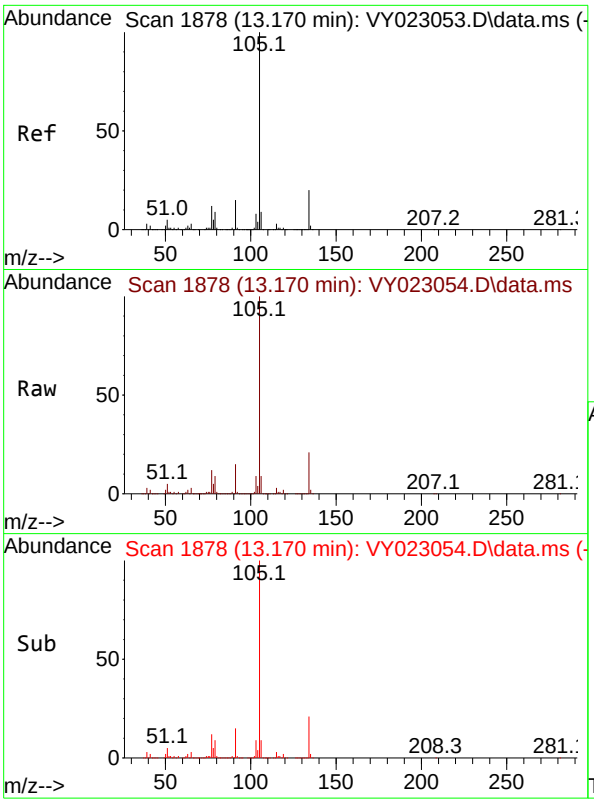




#84
1,2,4-Trimethylbenzene
Concen: 101.946 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:105 Resp: 2339432

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.2 | 23.0 | 69.0 |



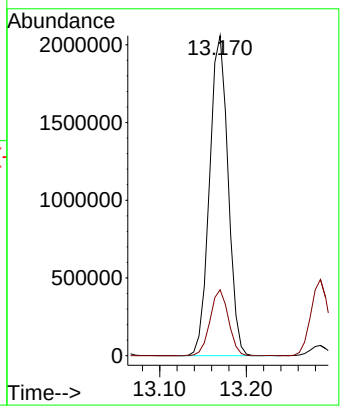


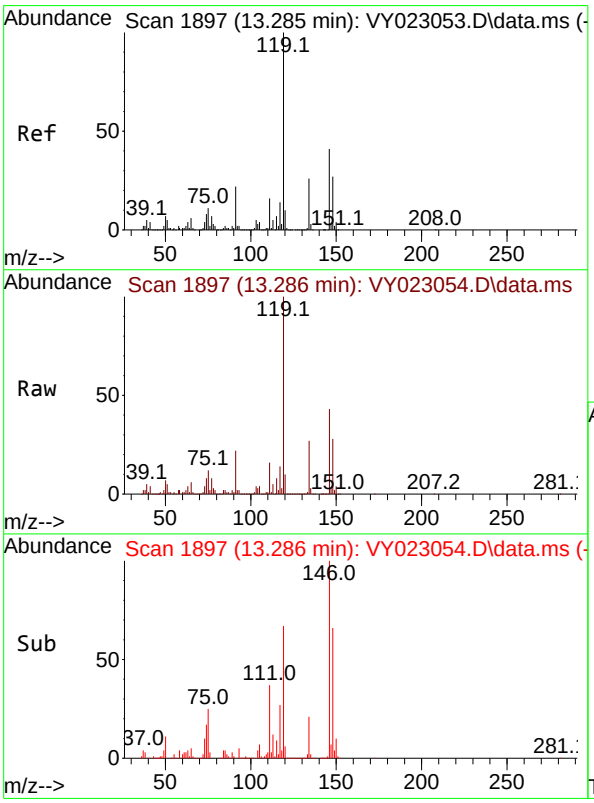

#85
sec-Butylbenzene
Concen: 99.932 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:105 Resp: 3056373

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.4 | 10.2 | 30.4 |

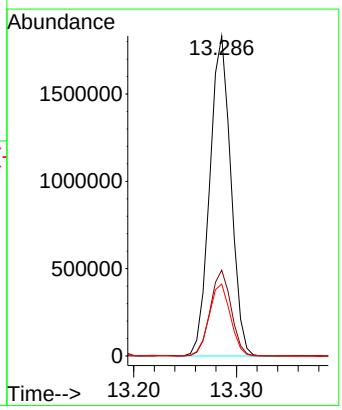


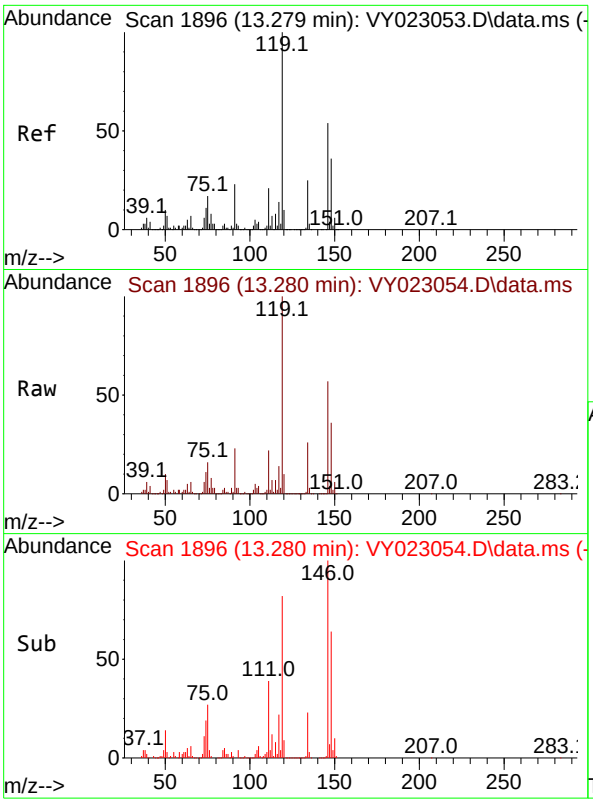




#86
p-Isopropyltoluene
Concen: 102.846 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:119 Resp: 2610936

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.5 | 13.2 | 39.6 |
| 91 | 22.7 | 11.3 | 33.8 |



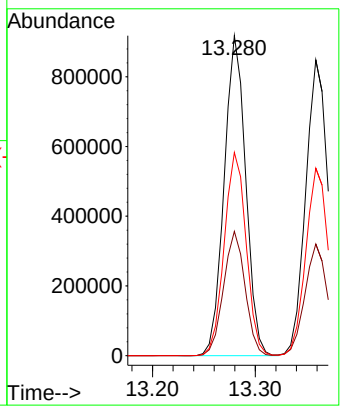


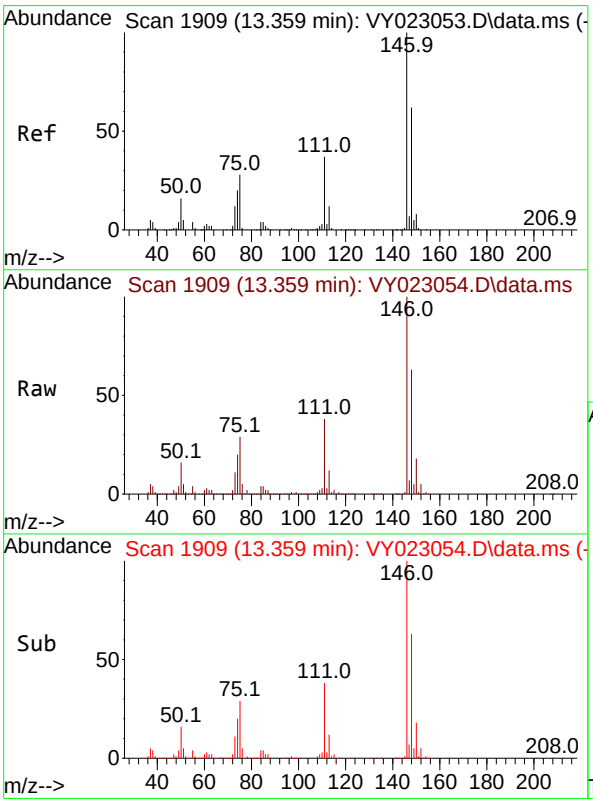

#87
1,3-Dichlorobenzene
Concen: 99.748 ug/l
RT: 13.280 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:146 Resp: 1338547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.8 | 19.6 | 58.7 |
| 148 | 64.5 | 32.5 | 97.5 |

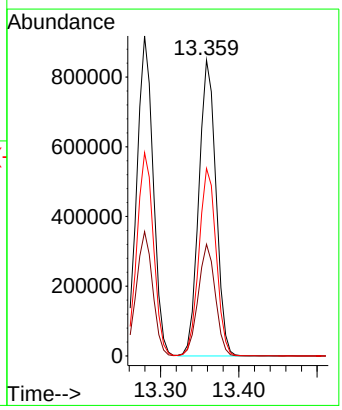


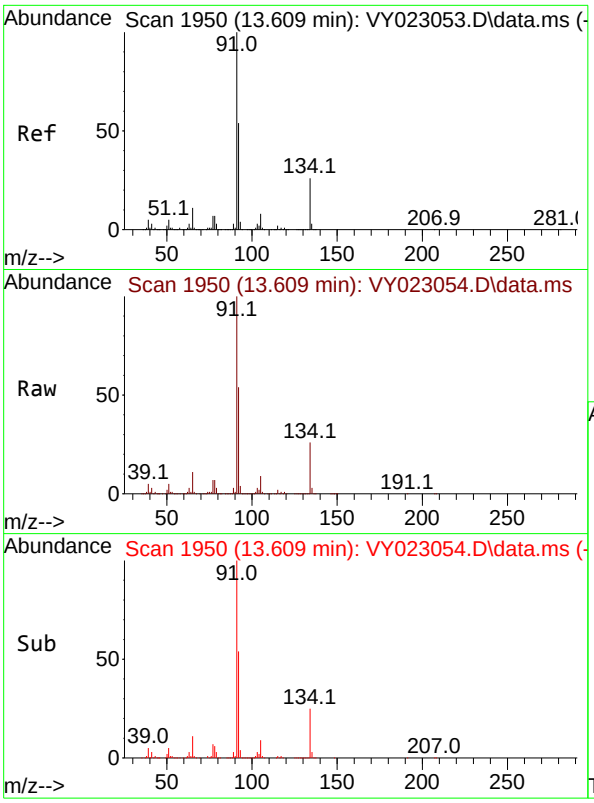




#88
1,4-Dichlorobenzene
Concen: 96.970 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:146 Resp: 1290840

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 37.5 | 19.1 | 57.1 |
| 148 | 63.7 | 31.6 | 94.7 |



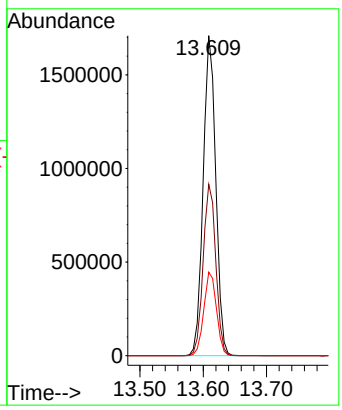


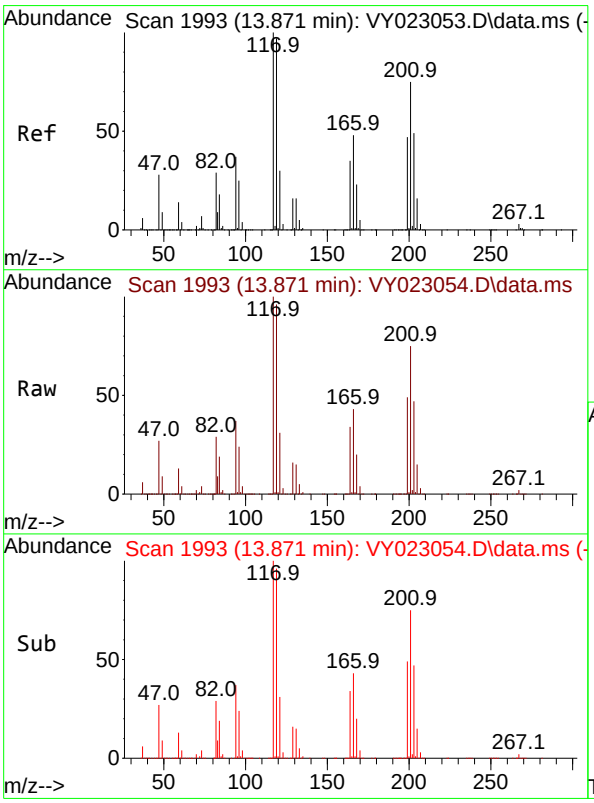

#89
n-Butylbenzene
Concen: 101.675 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 91 Resp: 2370706

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.9 | 26.9 | 80.7 |
| 134 | 26.4 | 13.2 | 39.5 |

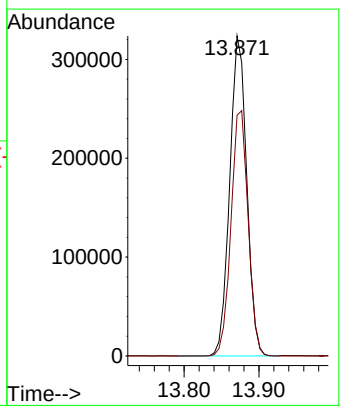


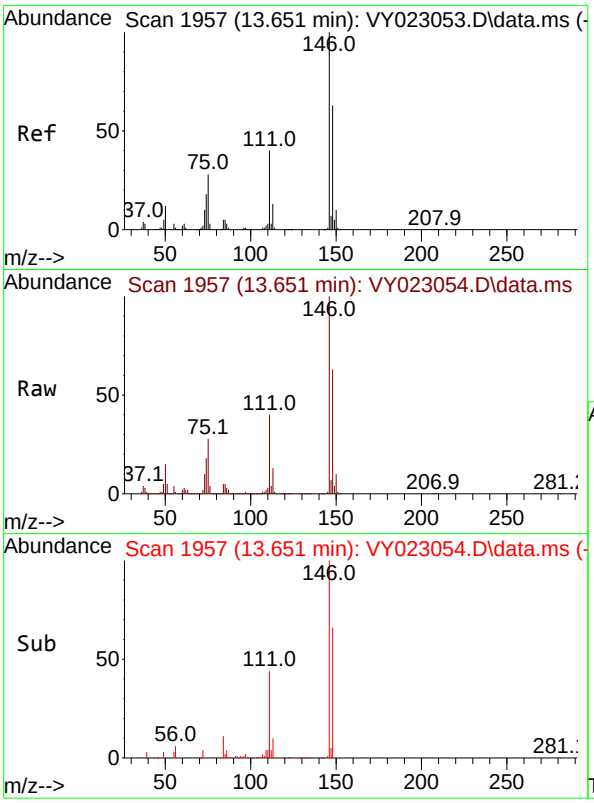




#90
Hexachloroethane
Concen: 98.308 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:117 Resp: 510900

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 77.6 | 38.4 | 115.1 |



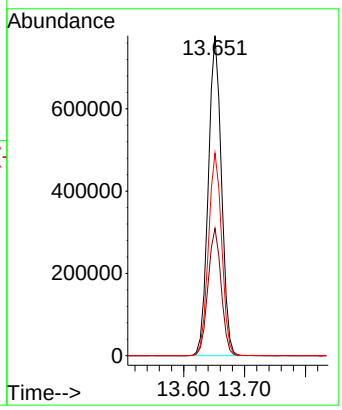


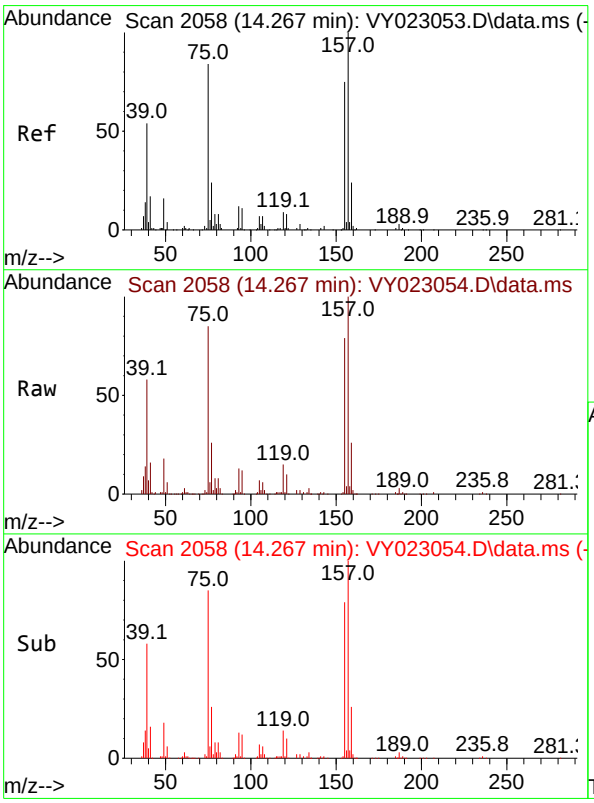

#91
1,2-Dichlorobenzene
Concen: 98.749 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:146 Resp: 1162152

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.9 | 20.3 | 60.8 |
| 148 | 63.9 | 32.2 | 96.6 |

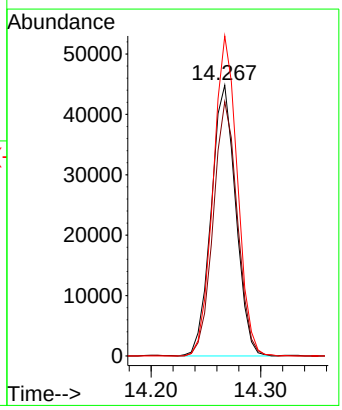


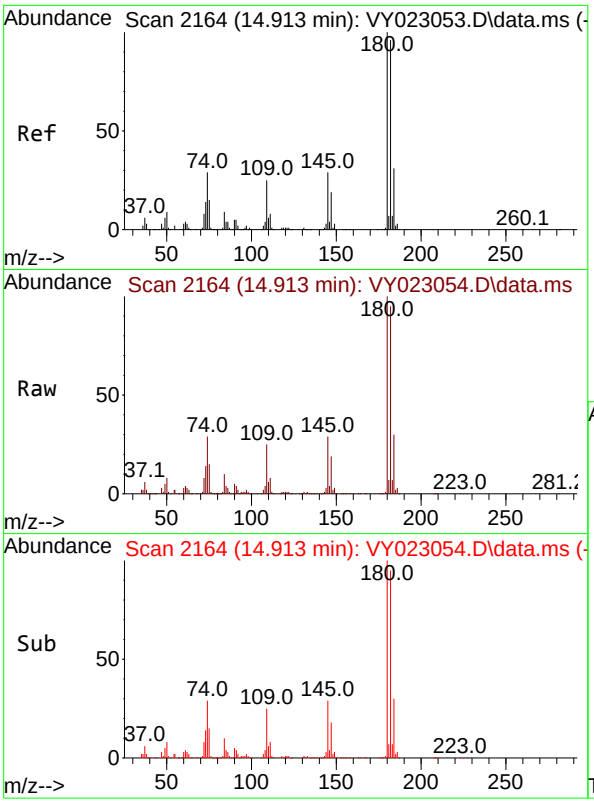




#92
1,2-Dibromo-3-Chloropropane
Concen: 91.965 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion: 75 Resp: 69736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 92.1 | 43.9 | 131.6 |
| 157 | 116.2 | 57.2 | 171.6 |



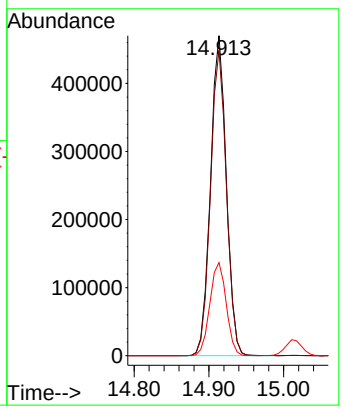


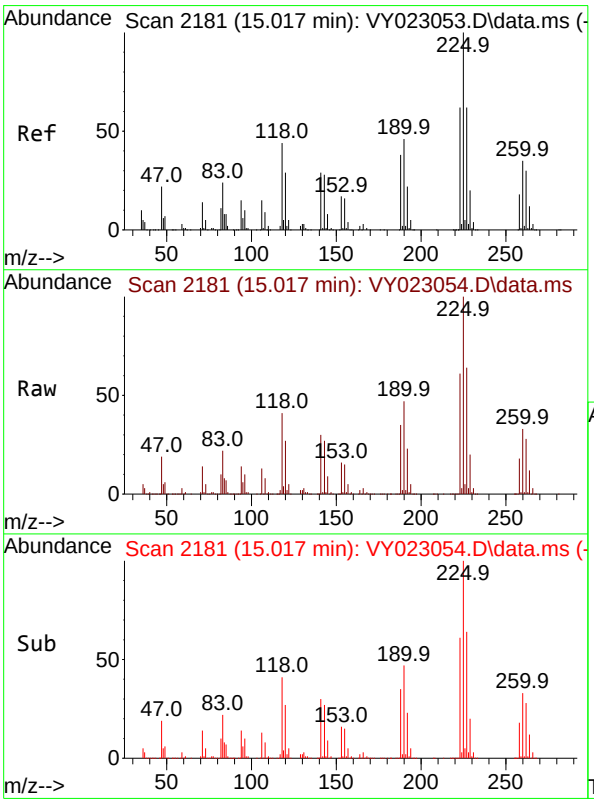

#93
1,2,4-Trichlorobenzene
Concen: 99.460 ug/l
RT: 14.913 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:180 Resp: 692201

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.8 | 46.8 | 140.4 |
| 145 | 30.1 | 14.4 | 43.4 |

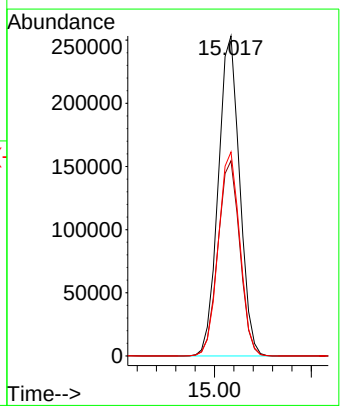


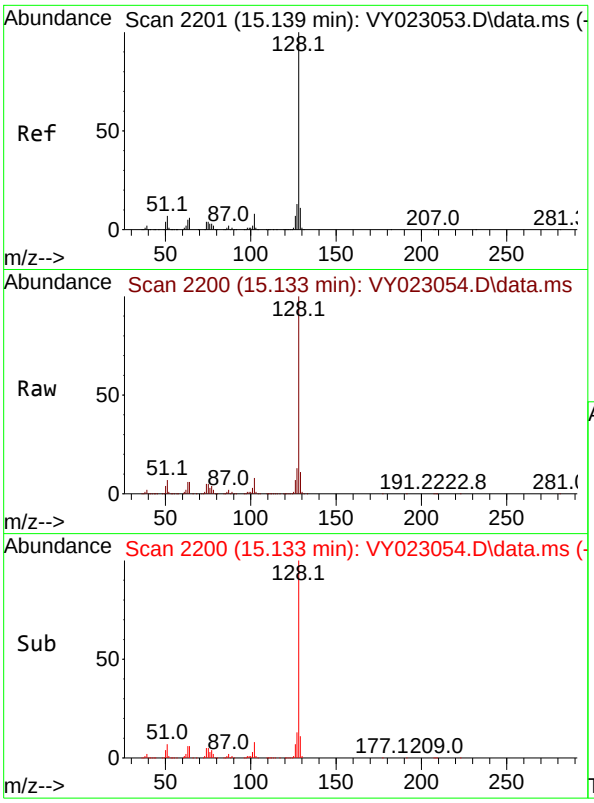




#94
Hexachlorobutadiene
Concen: 94.803 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:225 Resp: 387707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.4 | 31.3 | 93.8 |
| 227 | 64.2 | 31.5 | 94.5 |



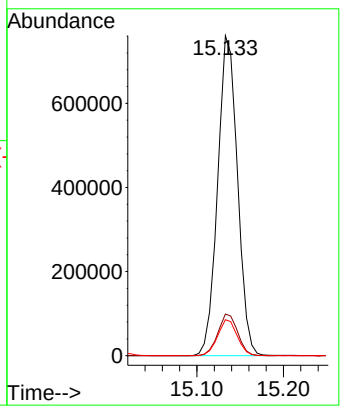


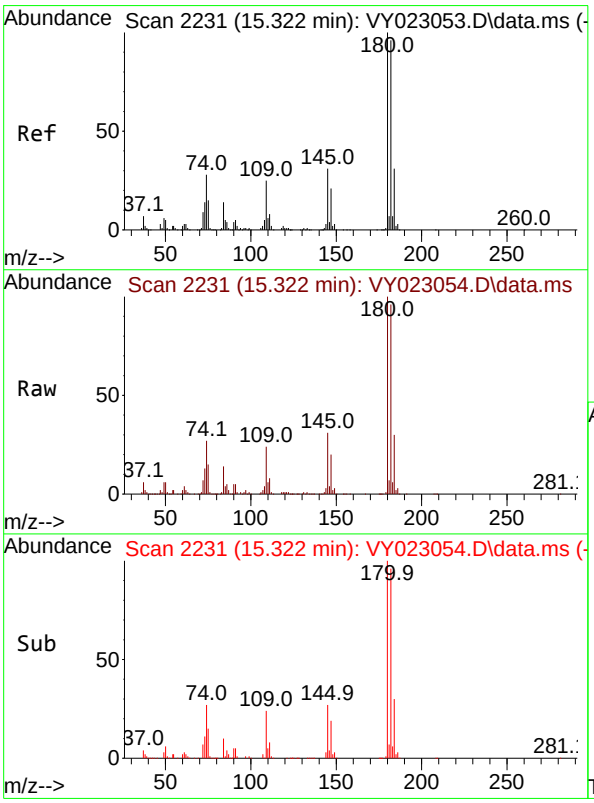

#95
Naphthalene
Concen: 102.147 ug/l
RT: 15.133 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:128 Resp: 1212227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.0 | 10.4 | 15.6 |
| 129 | 11.1 | 9.0 | 13.4 |

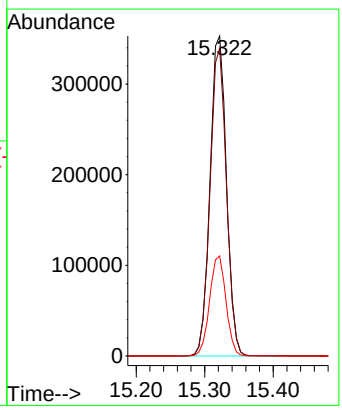



#96
1,2,3-Trichlorobenzene
Concen: 98.046 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023054.D
Acq: 12 Aug 2025 16:25

Tgt Ion:180 Resp: 587990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.8 | 47.9 | 143.7 |
| 145 | 31.2 | 15.9 | 47.7 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023055.D
Acq On : 12 Aug 2025 16:47
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Quant Time: Aug 13 01:55:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.701 | 168 | 538712 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.610 | 114 | 844092 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.408 | 117 | 756365 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 389949 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.055 | 65 | 746936 | 145.480 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 290.960%# | | | |
| 35) Dibromofluoromethane | 7.628 | 113 | 771944 | 152.837 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 305.680%# | | | |
| 50) Toluene-d8 | 10.103 | 98 | 3003834 | 152.237 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 304.480%# | | | |
| 62) 4-Bromofluorobenzene | 12.402 | 95 | 998318 | 157.326 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 314.660%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.861 | 85 | 571723 | 130.017 | ug/l | 98 |
| 3) Chloromethane | 2.062 | 50 | 991215 | 139.173 | ug/l | 99 |
| 4) Vinyl Chloride | 2.202 | 62 | 1238646 | 140.692 | ug/l | 99 |
| 5) Bromomethane | 2.580 | 94 | 938717 | 142.770 | ug/l | 100 |
| 6) Chloroethane | 2.720 | 64 | 834547 | 142.581 | ug/l | 100 |
| 7) Trichlorofluoromethane | 3.043 | 101 | 1574213 | 147.051 | ug/l | 99 |
| 8) Diethyl Ether | 3.446 | 74 | 426242 | 150.496 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 3.806 | 101 | 763053 | 144.479 | ug/l | 99 |
| 10) Methyl Iodide | 3.995 | 142 | 909378 | 159.567 | ug/l | 100 |
| 11) Tert butyl alcohol | 4.860 | 59 | 265243 | 753.967 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 3.781 | 96 | 768098 | 147.960 | ug/l | 95 |
| 13) Acrolein | 3.647 | 56 | 374594 | 727.070 | ug/l | 98 |
| 14) Allyl chloride | 4.372 | 41 | 1151194 | 150.707 | ug/l | 99 |
| 15) Acrylonitrile | 5.049 | 53 | 883293 | 767.115 | ug/l | 99 |
| 16) Acetone | 3.866 | 43 | 777658 | 699.133 | ug/l | 100 |
| 17) Carbon Disulfide | 4.098 | 76 | 2426564 | 143.357 | ug/l | 99 |
| 18) Methyl Acetate | 4.379 | 43 | 500151 | 151.100 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.110 | 73 | 2113920 | 157.144 | ug/l | 99 |
| 20) Methylene Chloride | 4.604 | 84 | 846955 | 152.064 | ug/l | 99 |
| 21) trans-1,2-Dichloroethene | 5.110 | 96 | 889517 | 152.474 | ug/l | 97 |
| 22) Diisopropyl ether | 6.012 | 45 | 2594499 | 156.307 | ug/l | 99 |
| 23) Vinyl Acetate | 5.951 | 43 | 7267824 | 791.851 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 5.909 | 63 | 1527663 | 150.534 | ug/l | 99 |
| 25) 2-Butanone | 6.890 | 43 | 1144112 | 756.289 | ug/l | 97 |
| 26) 2,2-Dichloropropane | 6.878 | 77 | 1293043 | 147.663 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.884 | 96 | 1047717 | 155.348 | ug/l | 98 |
| 28) Bromochloromethane | 7.238 | 49 | 599841 | 148.984 | ug/l | 98 |
| 29) Tetrahydrofuran | 7.256 | 42 | 734408 | 783.186 | ug/l | 99 |
| 30) Chloroform | 7.415 | 83 | 1585686 | 151.505 | ug/l | 95 |
| 31) Cyclohexane | 7.695 | 56 | 1354021 | 141.586 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.610 | 97 | 1396470 | 150.372 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 7.829 | 75 | 1132306 | 150.850 | ug/l | 99 |
| 37) Ethyl Acetate | 6.982 | 43 | 494371 | 156.788 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.811 | 117 | 1226800 | 150.478 | ug/l | 96 |
| 39) Methylcyclohexane | 9.103 | 83 | 1556004 | 157.417 | ug/l | 98 |
| 40) Benzene | 8.073 | 78 | 3533174 | 152.720 | ug/l | 100 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023055.D
Acq On : 12 Aug 2025 16:47
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Quant Time: Aug 13 01:55:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.213 | 41 | 261721 | 143.669 | ug/l | | 90 |
| 42) 1,2-Dichloroethane | 8.152 | 62 | 909030 | 151.078 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.195 | 43 | 1029854 | 161.596 | ug/l | | 98 |
| 44) Trichloroethene | 8.860 | 130 | 909510 | 152.126 | ug/l | | 94 |
| 45) 1,2-Dichloropropane | 9.134 | 63 | 822035 | 154.426 | ug/l | | 99 |
| 46) Dibromomethane | 9.225 | 93 | 480162 | 157.156 | ug/l | | 100 |
| 47) Bromodichloromethane | 9.420 | 83 | 1217658 | 154.884 | ug/l | | 99 |
| 48) Methyl methacrylate | 9.213 | 41 | 497527 | 163.144 | ug/l | | 97 |
| 49) 1,4-Dioxane | 9.225 | 88 | 117513 | 3280.235 | ug/l | | 98 |
| 51) 4-Methyl-2-Pentanone | 9.993 | 43 | 2677587 | 814.509 | ug/l | | 99 |
| 52) Toluene | 10.164 | 92 | 2332797 | 158.762 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 1162952 | 163.355 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 1366797 | 162.359 | ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 10.567 | 97 | 642236 | 157.090 | ug/l | | 98 |
| 56) Ethyl methacrylate | 10.432 | 69 | 908662 | 173.693 | ug/l | | 100 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 1087297 | 156.818 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 2167815 | 878.488 | ug/l | | 99 |
| 59) 2-Hexanone | 10.756 | 43 | 1848093 | 825.606 | ug/l | | 100 |
| 60) Dibromochloromethane | 10.908 | 129 | 860181 | 159.454 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.012 | 107 | 613069 | 159.546 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.640 | 164 | 990664 | 146.682 | ug/l | | 98 |
| 65) Chlorobenzene | 11.438 | 112 | 2520874 | 154.514 | ug/l | | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 11.511 | 131 | 871003 | 157.304 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.511 | 91 | 4438665 | 158.093 | ug/l | | 98 |
| 68) m/p-Xylenes | 11.621 | 106 | 3511726 | 320.251 | ug/l | | 96 |
| 69) o-Xylene | 11.950 | 106 | 1683720 | 163.941 | ug/l | | 100 |
| 70) Styrene | 11.963 | 104 | 2846443 | 169.475 | ug/l | | 99 |
| 71) Bromoform | 12.127 | 173 | 523541 | 161.778 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.249 | 105 | 4269945 | 155.145 | ug/l | | 99 |
| 74) N-amyl acetate | 12.066 | 43 | 982090 | 168.265 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.499 | 83 | 717524 | 152.686 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.548 | 75 | 950569 | 252.416 | ug/l | # | 100 |
| 77) Bromobenzene | 12.523 | 156 | 1021449 | 155.568 | ug/l | | 99 |
| 78) n-propylbenzene | 12.591 | 91 | 5048012 | 154.058 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 2878647 | 153.331 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.731 | 105 | 3469329 | 155.973 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.298 | 75 | 245958 | 158.203 | ug/l | | 97 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 2981042 | 153.063 | ug/l | | 99 |
| 83) tert-Butylbenzene | 12.993 | 119 | 3161475 | 157.371 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.036 | 105 | 3501626 | 158.143 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.170 | 105 | 4541629 | 153.897 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.286 | 119 | 3918969 | 159.987 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.279 | 146 | 2049060 | 158.251 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.359 | 146 | 1941716 | 151.172 | ug/l | | 98 |
| 89) n-Butylbenzene | 13.609 | 91 | 3578272 | 159.048 | ug/l | | 100 |
| 90) Hexachloroethane | 13.871 | 117 | 772603 | 154.073 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 13.651 | 146 | 1754100 | 154.469 | ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.267 | 75 | 114505 | 156.498 | ug/l | | 96 |
| 93) 1,2,4-Trichlorobenzene | 14.913 | 180 | 1117401 | 166.397 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 15.017 | 225 | 589351 | 149.352 | ug/l | | 99 |
| 95) Naphthalene | 15.139 | 128 | 2094983 | 182.954 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.322 | 180 | 975366 | 168.557 | ug/l | | 99 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023055.D
Acq On : 12 Aug 2025 16:47
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Quant Time: Aug 13 01:55:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration

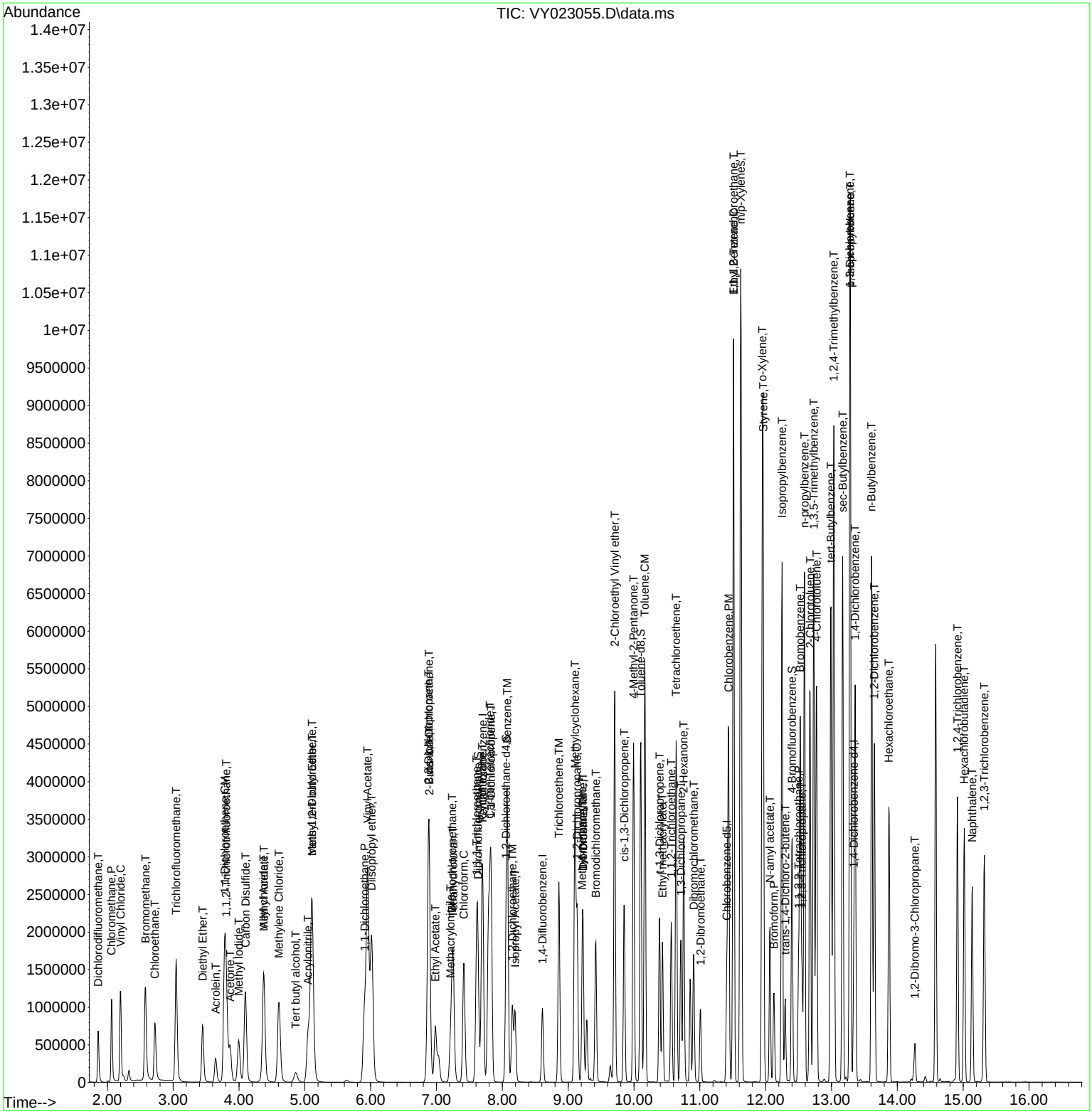
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

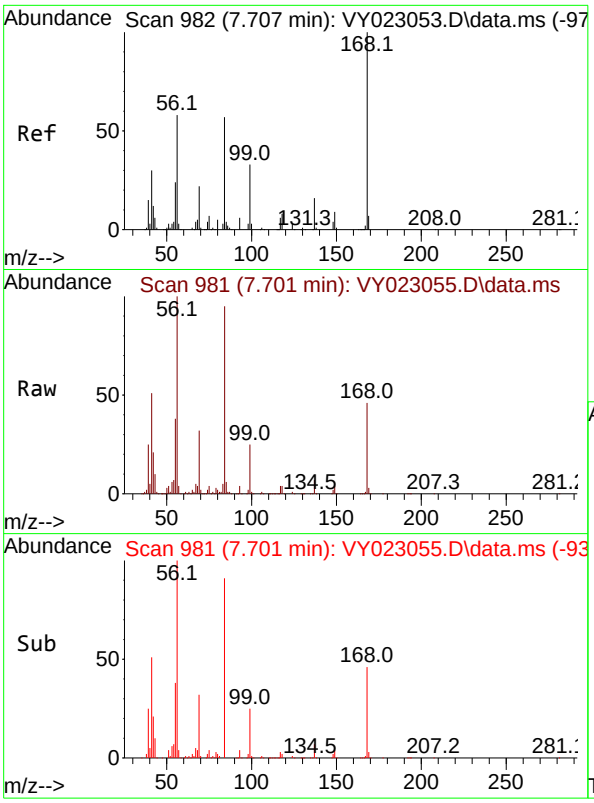
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023055.D
Acq On : 12 Aug 2025 16:47
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Quant Time: Aug 13 01:55:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 01:46:43 2025
Response via : Initial Calibration



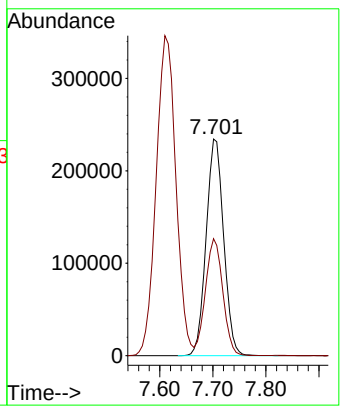


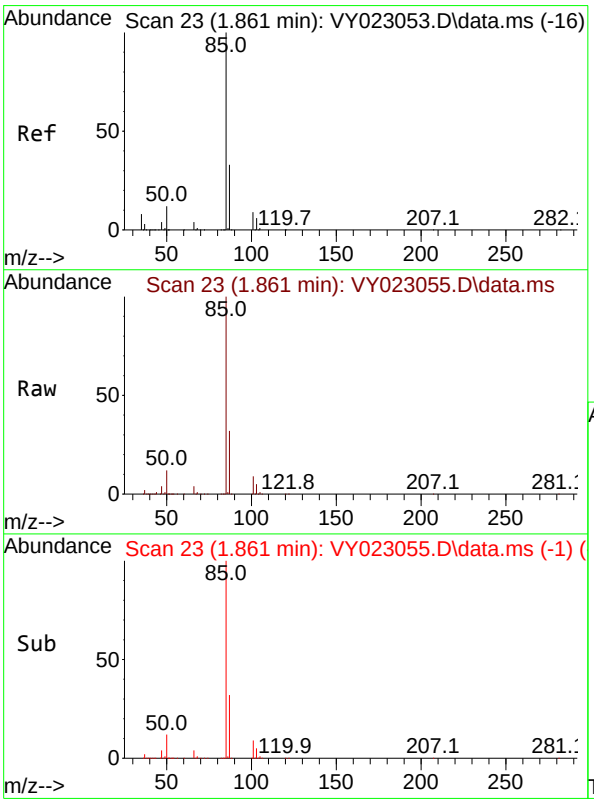

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:168 Resp: 538712

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 53.8 | 42.8 | 64.2 |

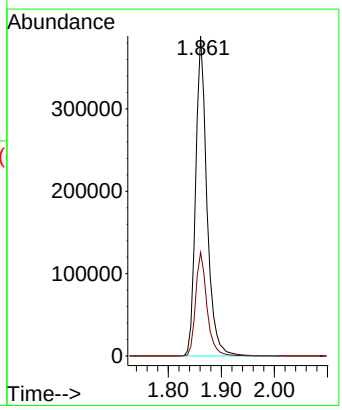


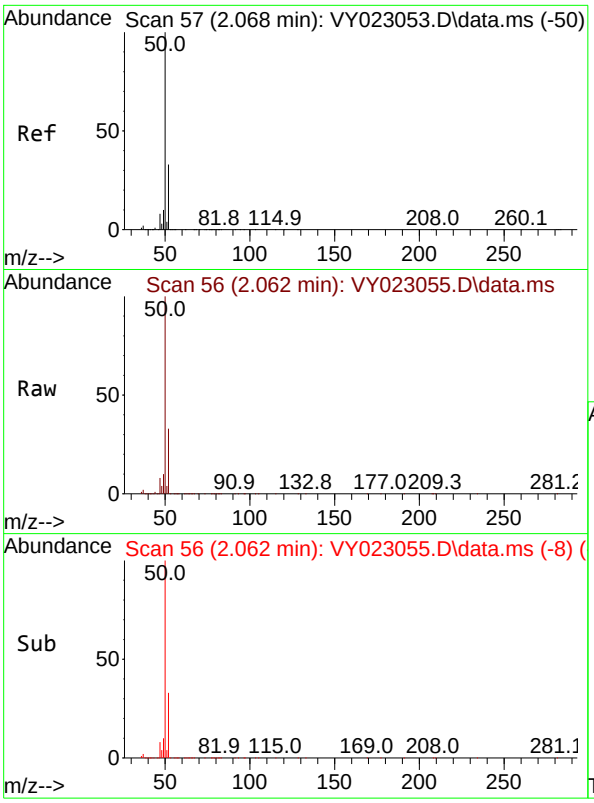




#2
Dichlorodifluoromethane
Concen: 130.017 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 85 Resp: 571723

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.3 | 16.6 | 49.8 |



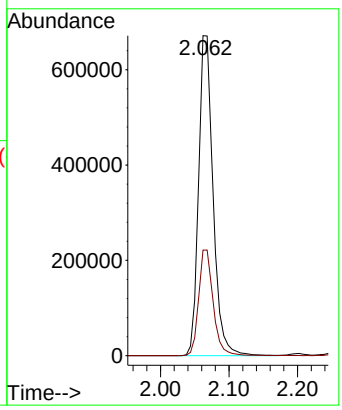


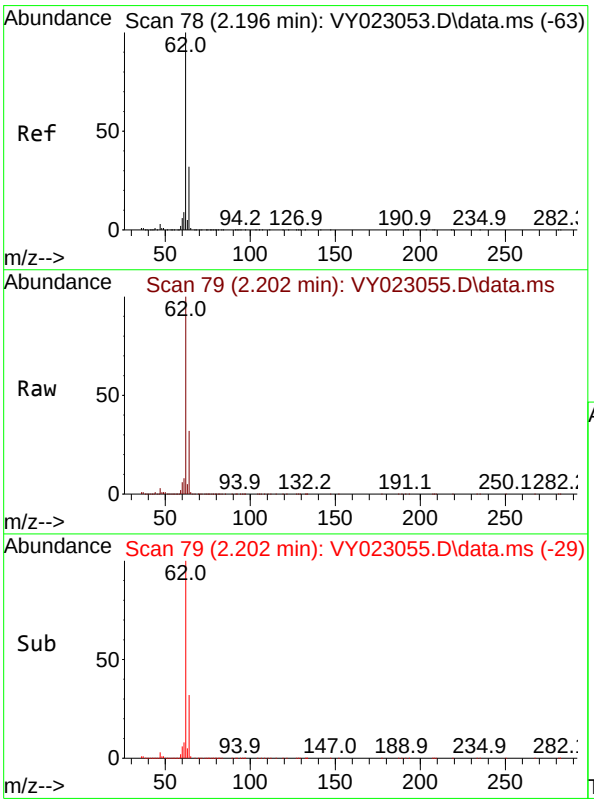

#3
Chloromethane
Concen: 139.173 ug/l
RT: 2.062 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 50 Resp: 991215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.0 | 26.7 | 40.1 |

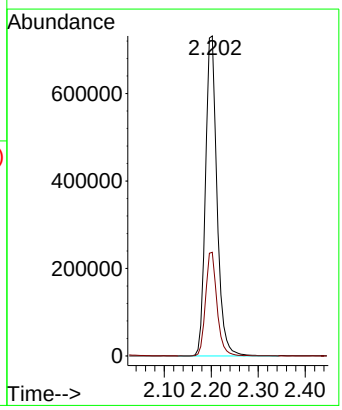


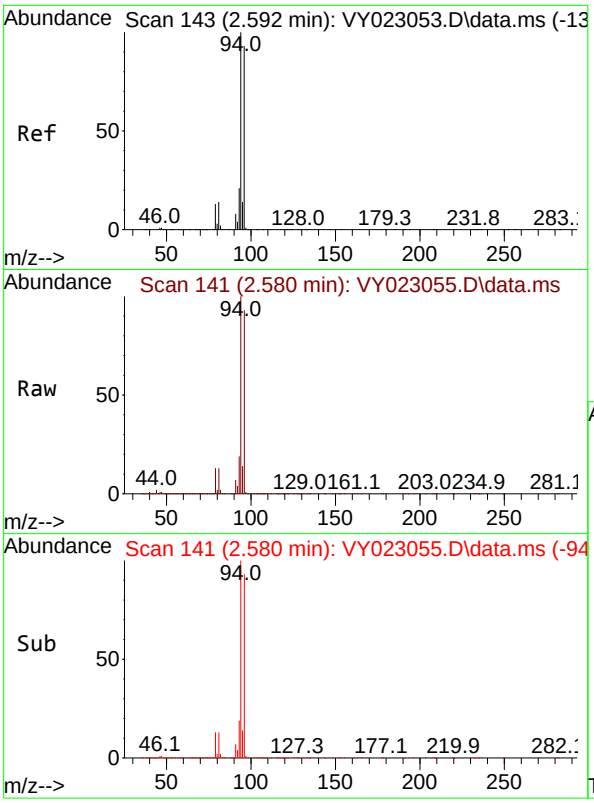




#4
Vinyl Chloride
Concen: 140.692 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 62 Resp: 1238646

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.4 | 25.4 | 38.0 |



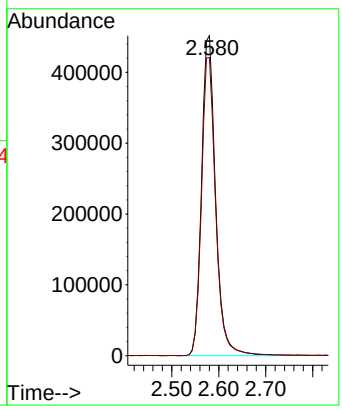


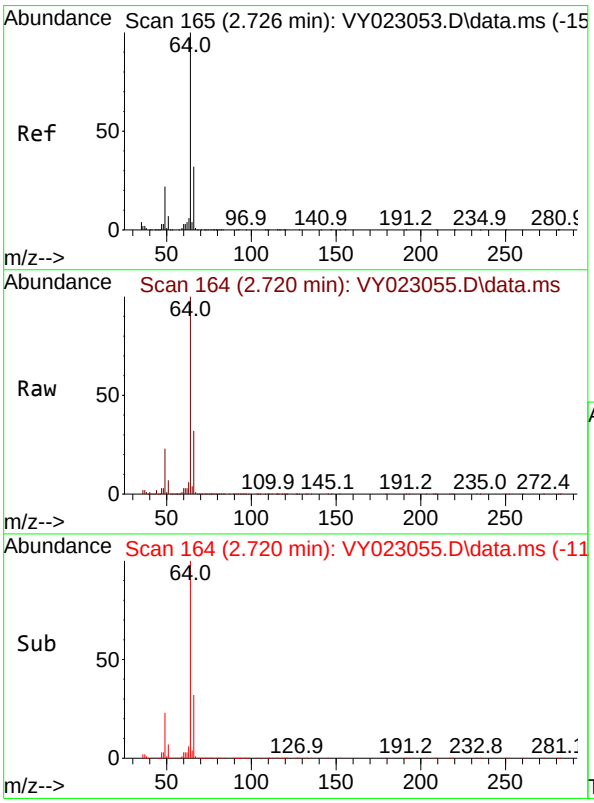

#5
Bromomethane
Concen: 142.770 ug/l
RT: 2.580 min Scan# 14
Delta R.T. -0.012 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 94 Resp: 938717

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 93.2 | 74.6 | 112.0 |

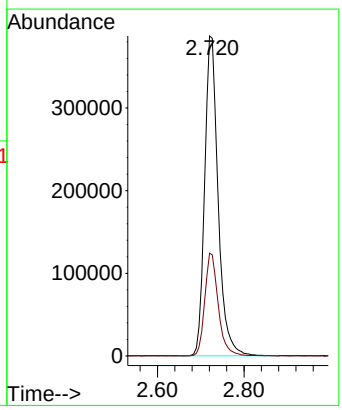


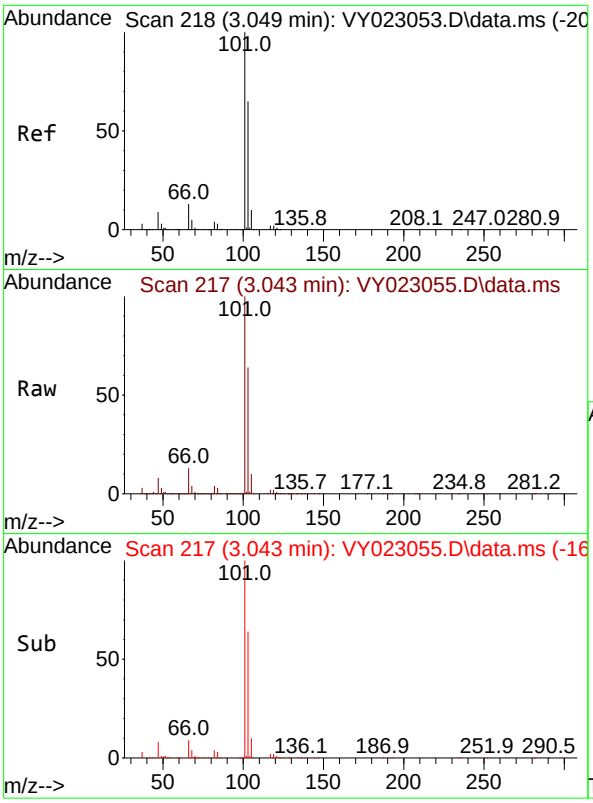




#6
Chloroethane
Concen: 142.581 ug/l
RT: 2.720 min Scan# 164
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 64 Resp: 834547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.1 | 25.8 | 38.6 |



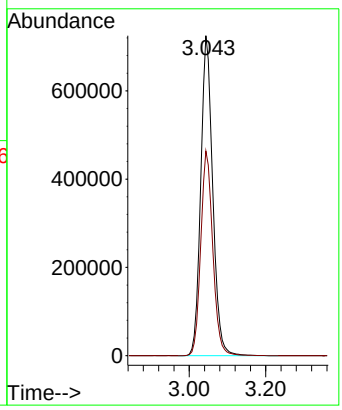


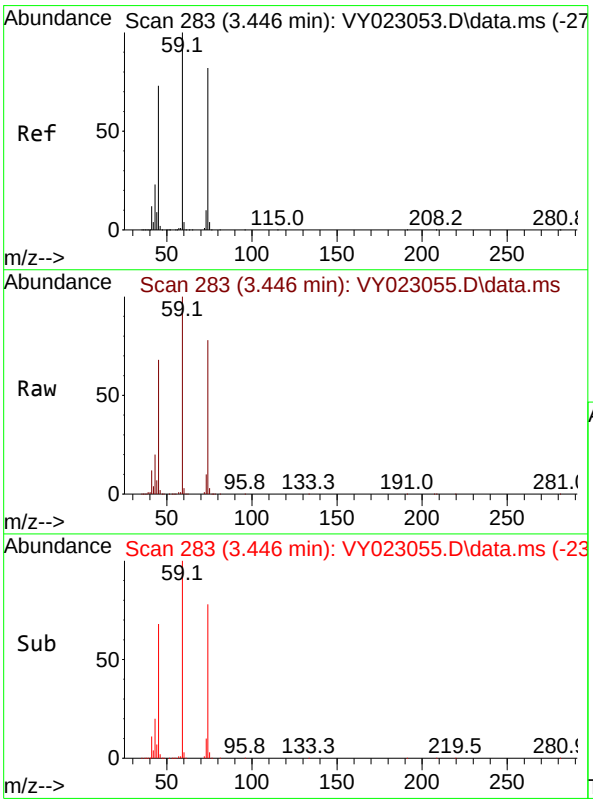

#7
Trichlorofluoromethane
Concen: 147.051 ug/l
RT: 3.043 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:101 Resp: 1574213

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.9 | 51.9 | 77.9 |

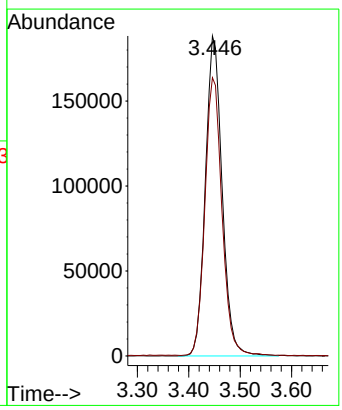


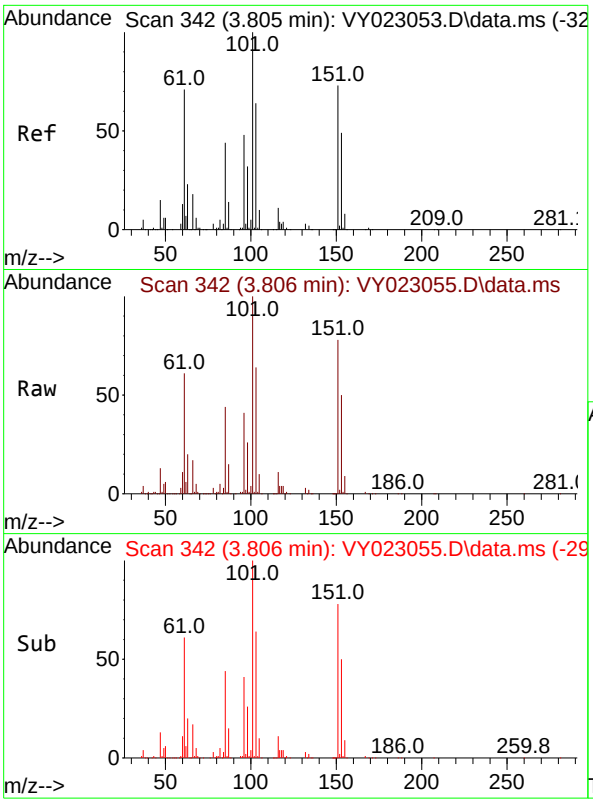




#8
Diethyl Ether
Concen: 150.496 ug/l
RT: 3.446 min Scan# 283
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 74 Resp: 426242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 88.9 | 44.4 | 133.2 |



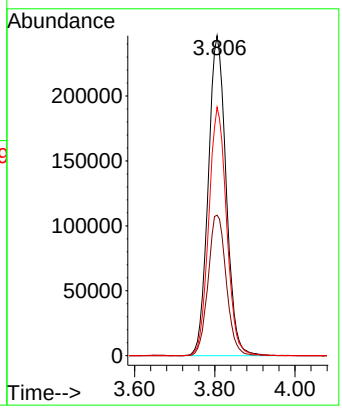


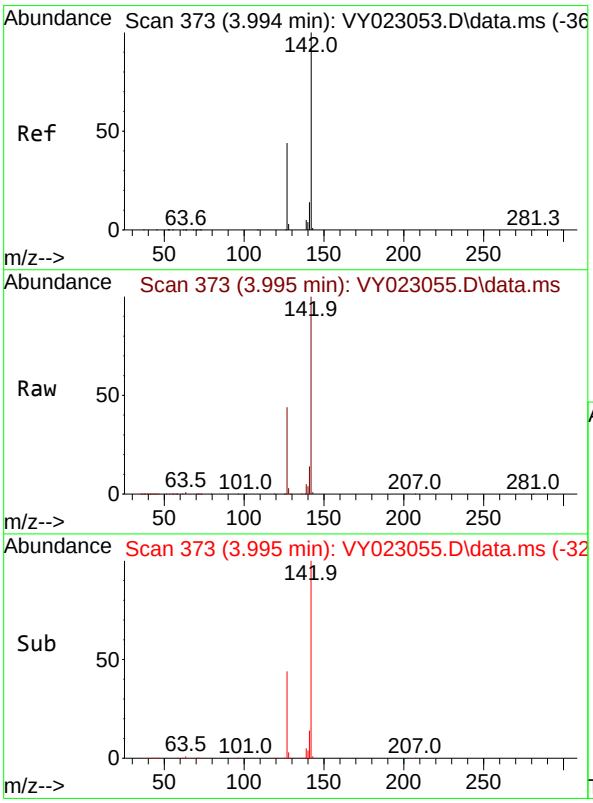

#9
1,1,2-Trichlorotrifluoroethane
Concen: 144.479 ug/l
RT: 3.806 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:101 Resp: 763053

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 44.7 | 36.3 | 54.5 |
| 151 | 77.4 | 61.5 | 92.3 |

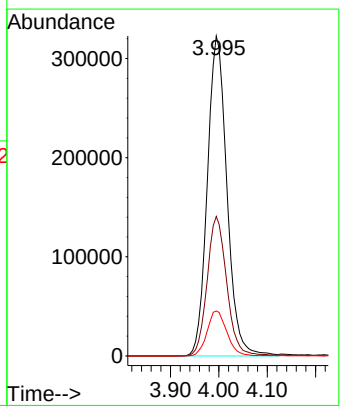


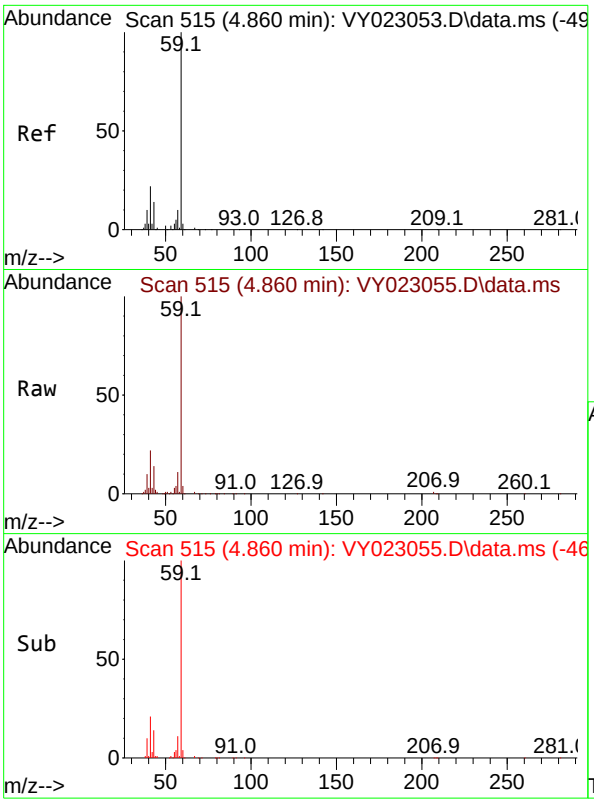




#10
Methyl Iodide
Concen: 159.567 ug/l
RT: 3.995 min Scan# 373
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:142 Resp: 909378

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 43.7 | 34.9 | 52.3 |
| 141 | 14.2 | 11.3 | 16.9 |



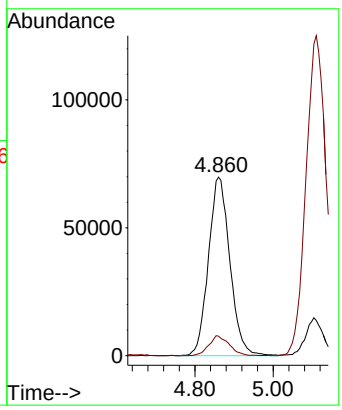


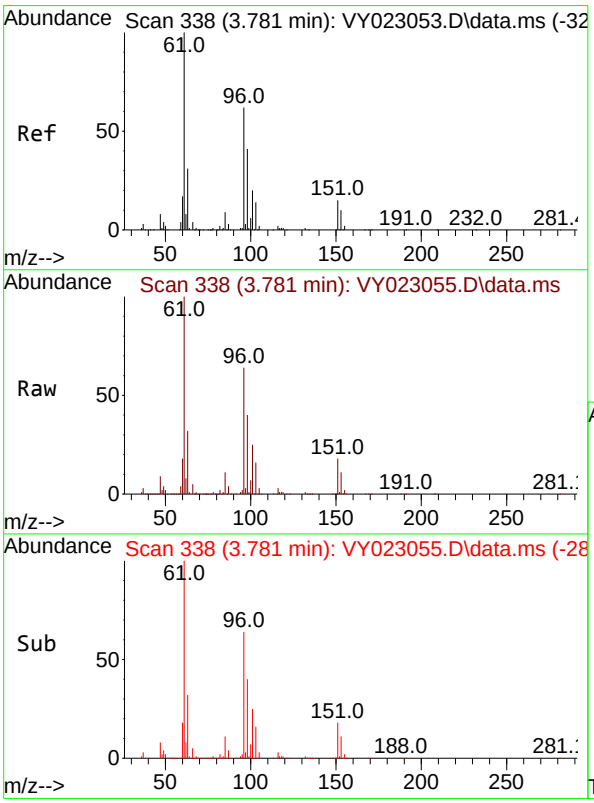

#11
Tert butyl alcohol
Concen: 753.967 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 59 Resp: 265243

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.7 | 8.6 | 13.0 |

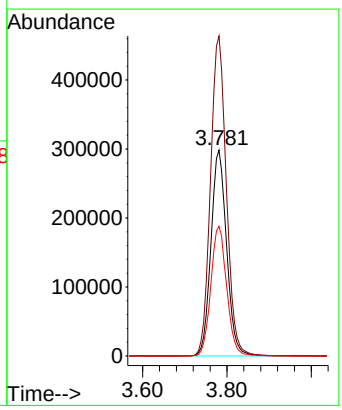


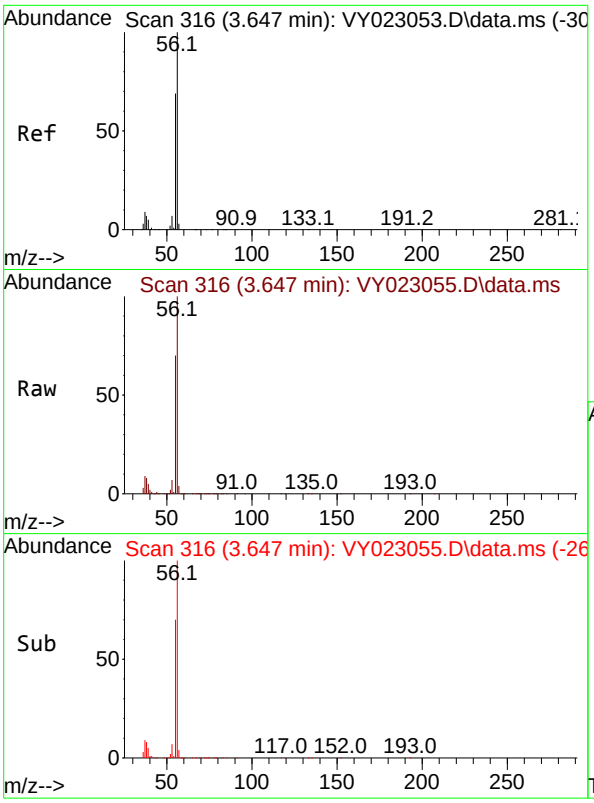




#12
1,1-Dichloroethene
Concen: 147.960 ug/l
RT: 3.781 min Scan# 338
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 96 Resp: 768098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 155.4 | 129.4 | 194.2 |
| 98 | 62.9 | 52.8 | 79.2 |



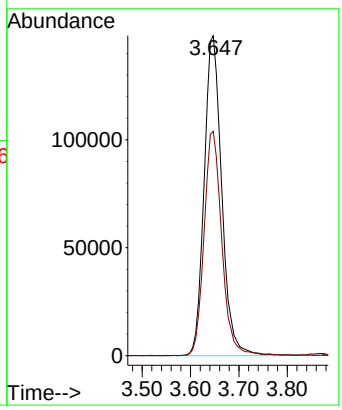


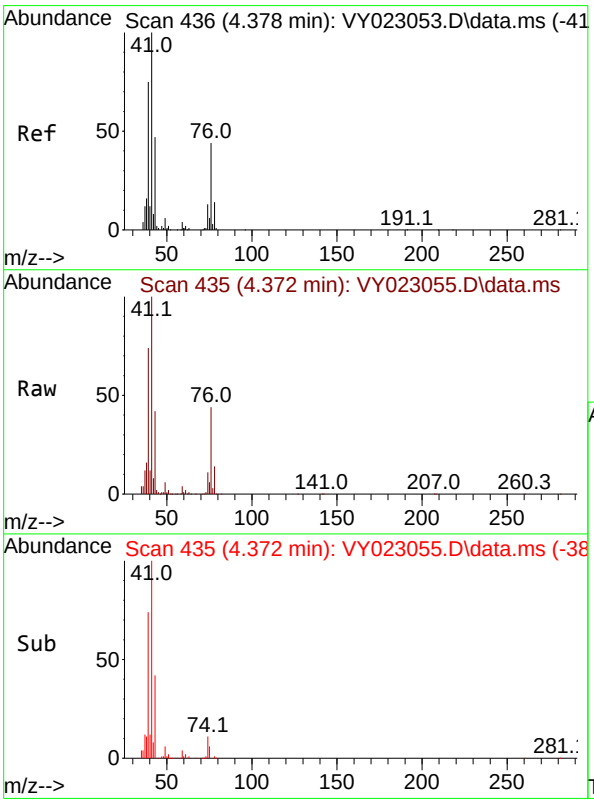

#13
Acrolein
Concen: 727.070 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 56 Resp: 374594

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 70.6 | 55.2 | 82.8 |

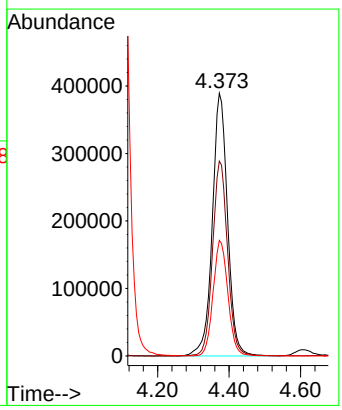


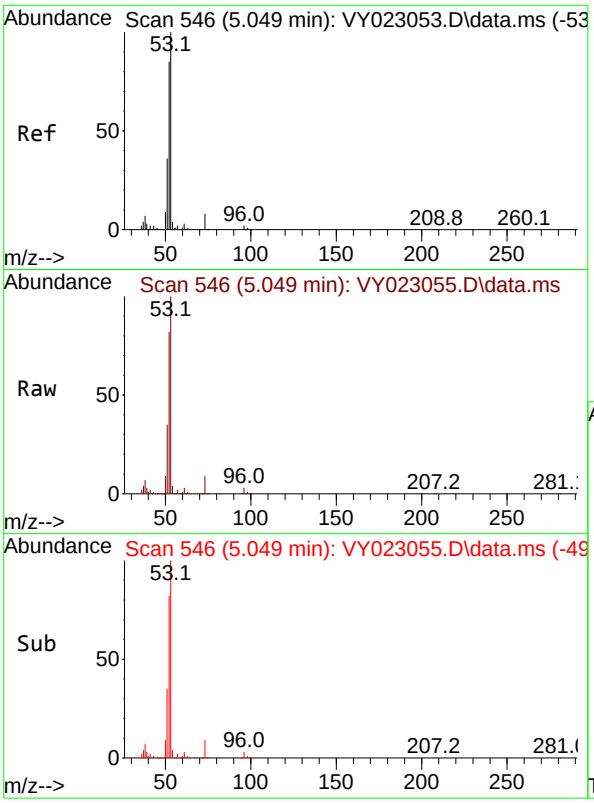




#14
Allyl chloride
Concen: 150.707 ug/l
RT: 4.372 min Scan# 435
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 41 Resp: 1151194

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 73.2 | 59.8 | 89.6 |
| 76 | 42.6 | 33.7 | 50.5 |



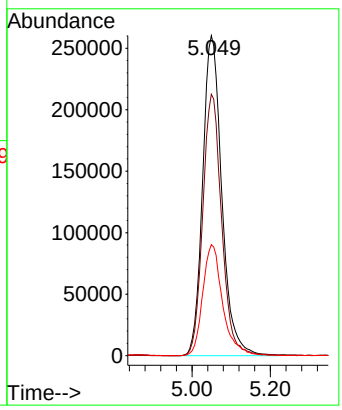


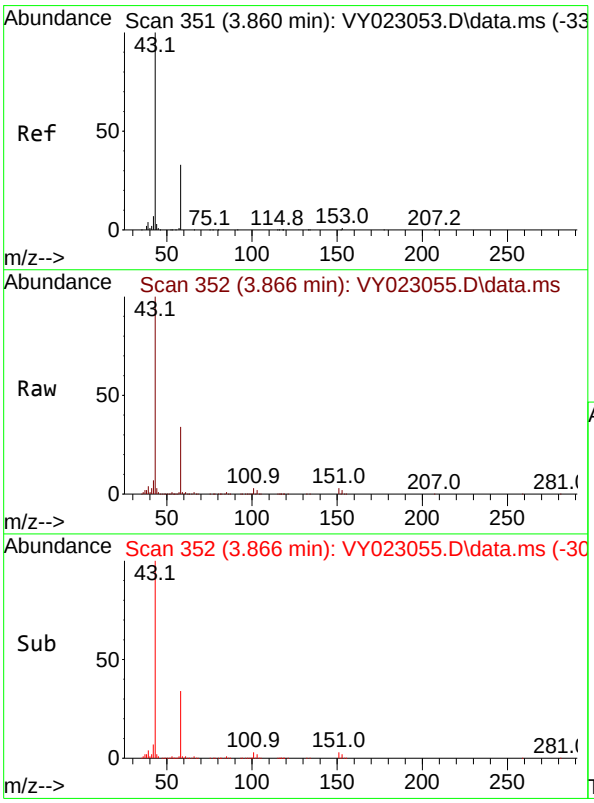

#15
Acrylonitrile
Concen: 767.115 ug/l
RT: 5.049 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 53 Resp: 883293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 80.4 | 65.3 | 97.9 |
| 51 | 36.2 | 29.5 | 44.3 |

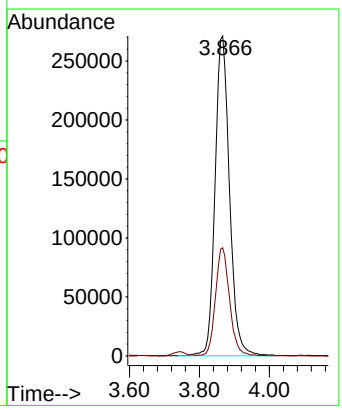


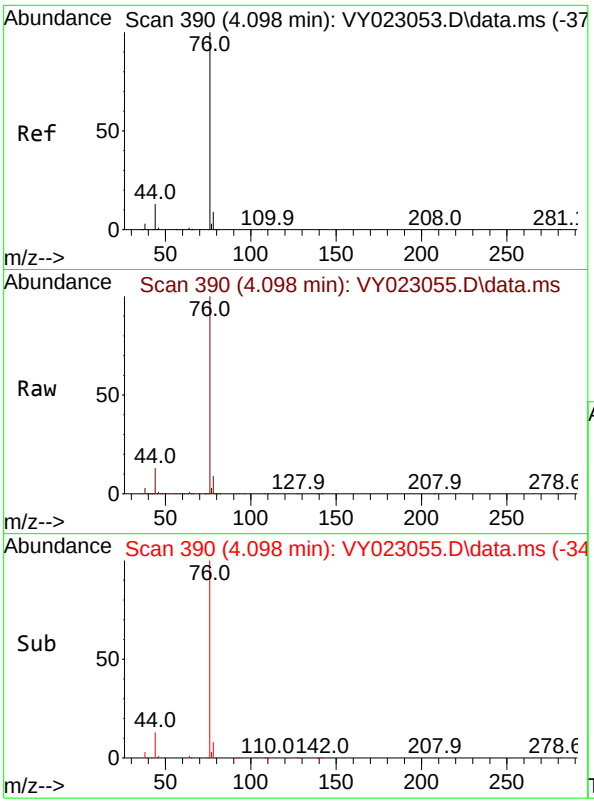




#16
Acetone
Concen: 699.133 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 43 Resp: 777658

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.7 | 27.1 | 40.7 |



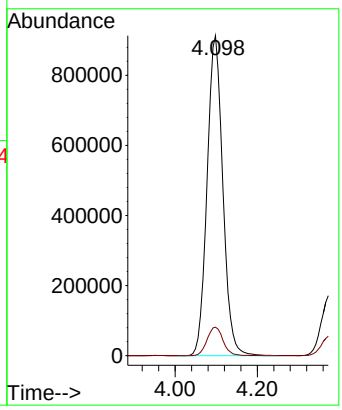


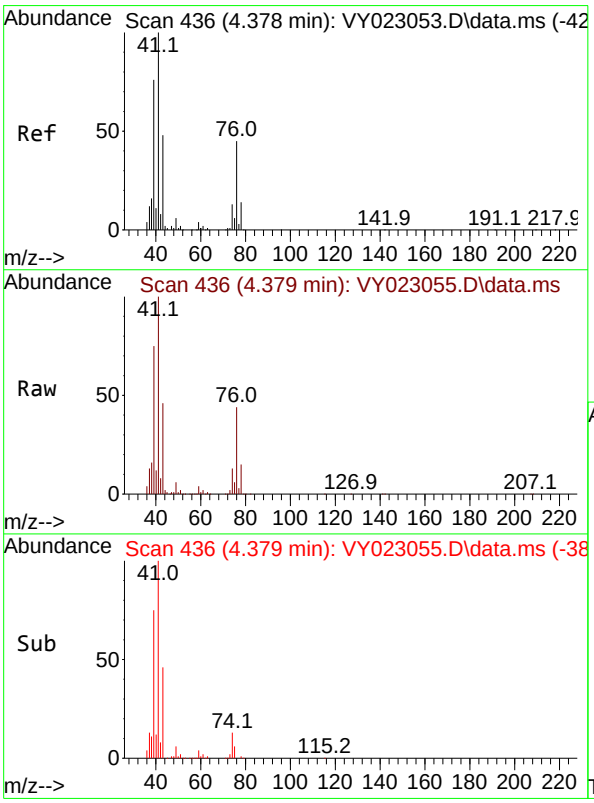

#17
Carbon Disulfide
Concen: 143.357 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 76 Resp: 2426564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.9 | 7.4 | 11.2 |

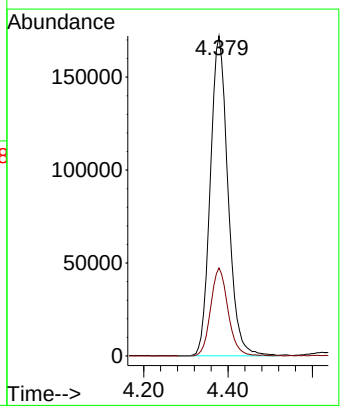


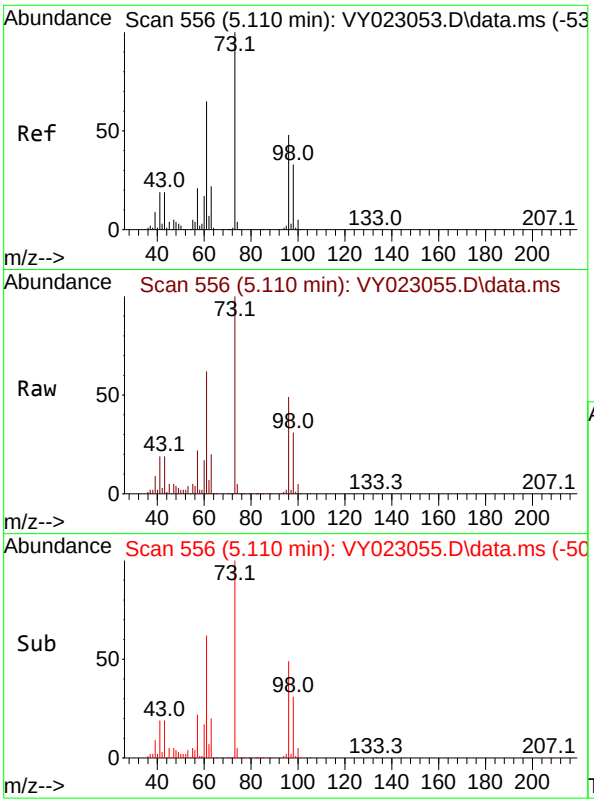




#18
Methyl Acetate
Concen: 151.100 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 43 Resp: 500151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 27.1 | 21.2 | 31.8 |



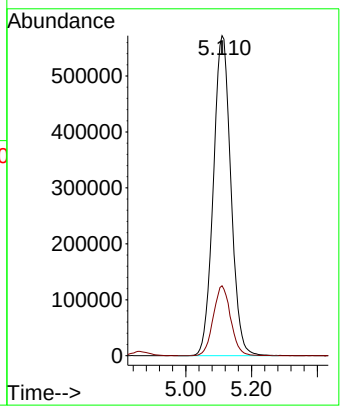


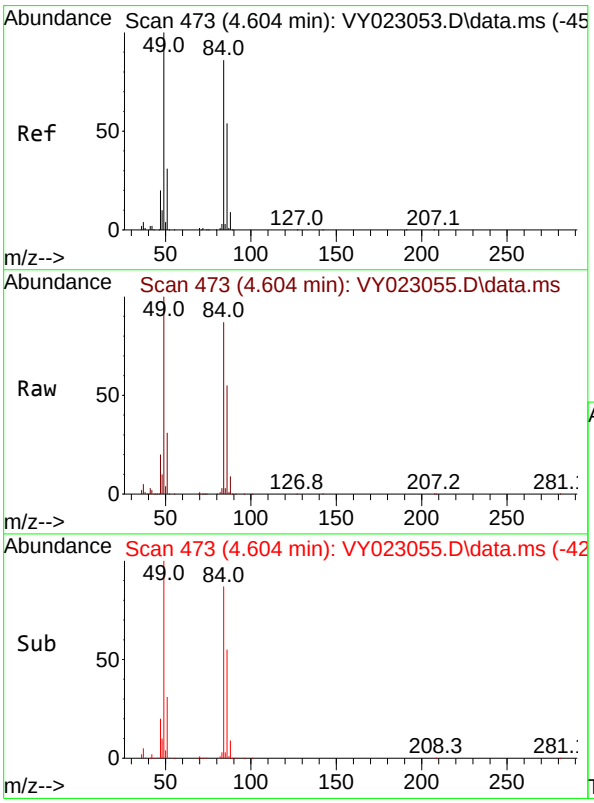

#19
Methyl tert-butyl Ether
Concen: 157.144 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 73 Resp: 2113920

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.9 | 17.1 | 25.7 |

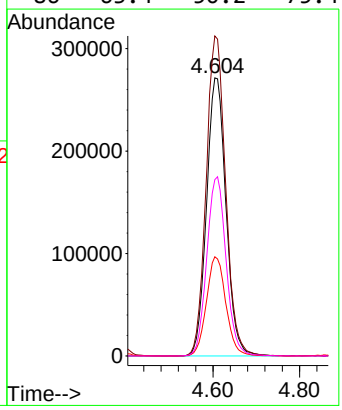


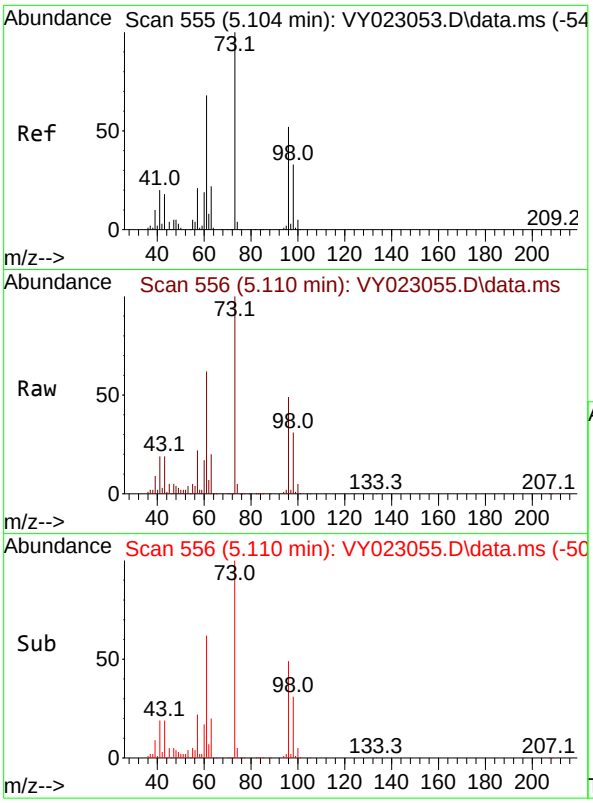




#20
Methylene Chloride
Concen: 152.064 ug/l
RT: 4.604 min Scan# 473
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 84 Resp: 846955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 115.1 | 93.0 | 139.6 |
| 51 | 35.7 | 29.0 | 43.4 |
| 86 | 63.4 | 50.2 | 75.4 |



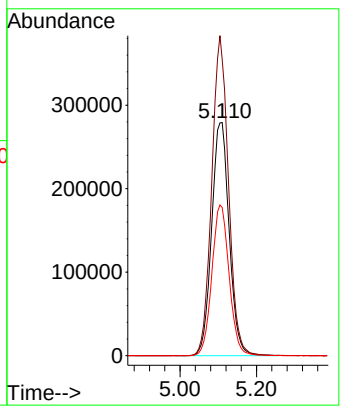


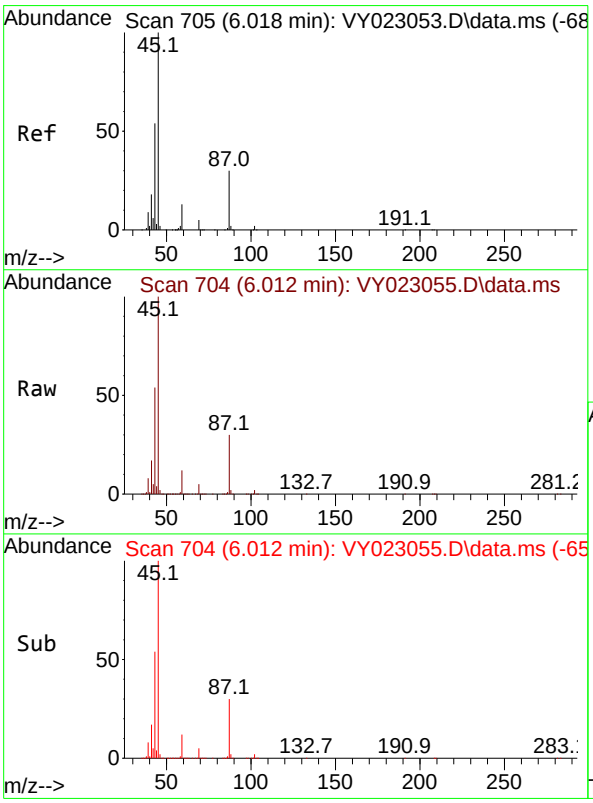

#21
trans-1,2-Dichloroethene
Concen: 152.474 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 96 Resp: 889517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 127.0 | 104.8 | 157.2 |
| 98 | 63.5 | 50.1 | 75.1 |

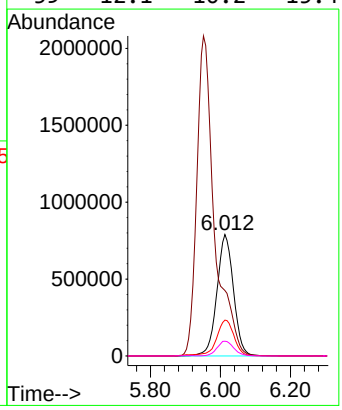


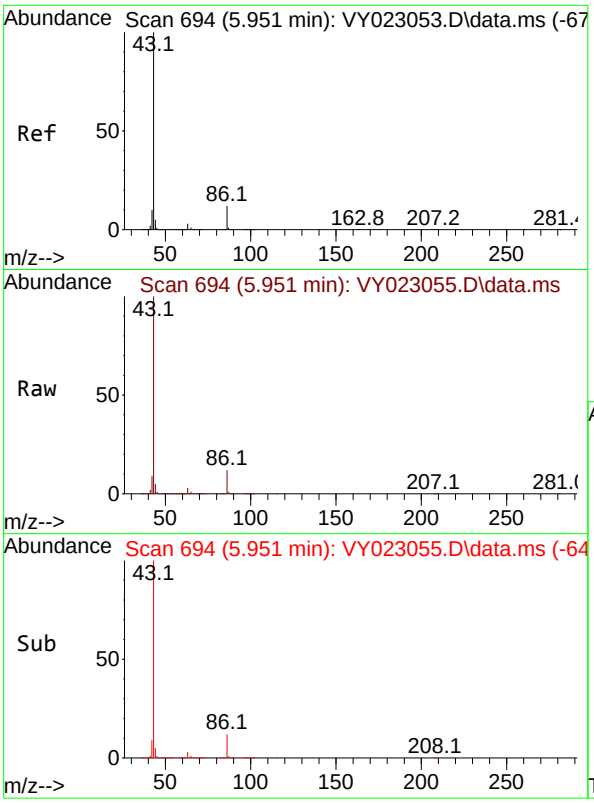




#22
Diisopropyl ether
Concen: 156.307 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 45 Resp: 2594499

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 53.8 | 43.4 | 65.0 |
| 87 | 29.5 | 24.4 | 36.6 |
| 59 | 12.1 | 10.2 | 15.4 |



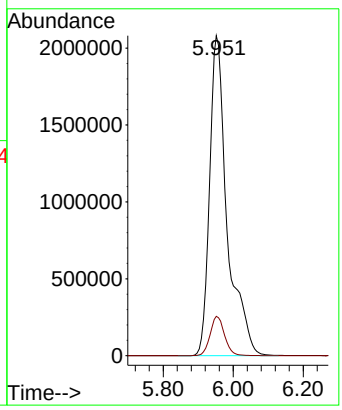


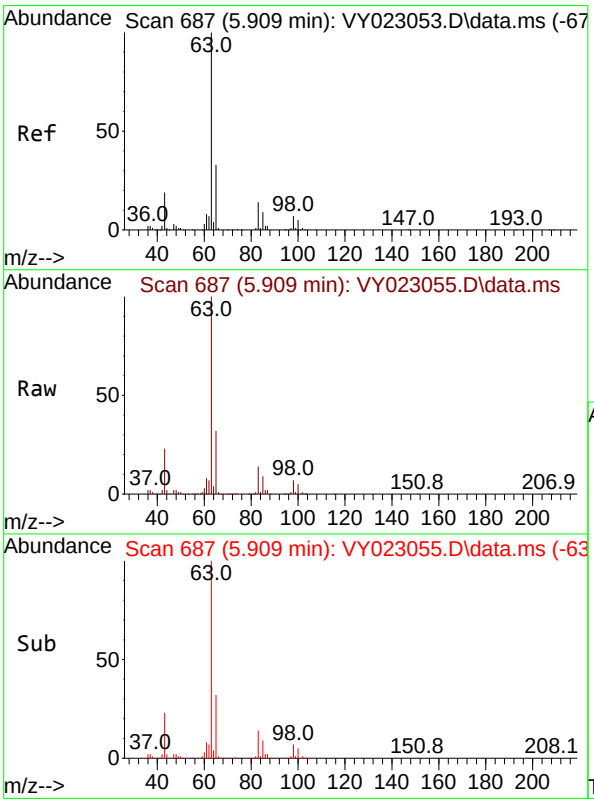

#23
Vinyl Acetate
Concen: 791.851 ug/l
RT: 5.951 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 43 Resp: 7267824

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 12.3 | 9.6 | 14.4 |

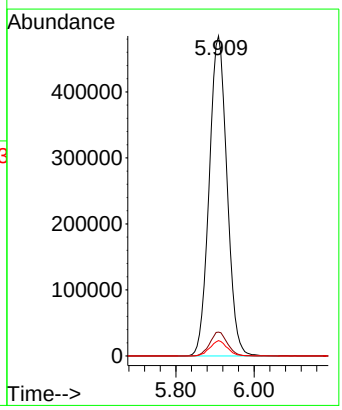


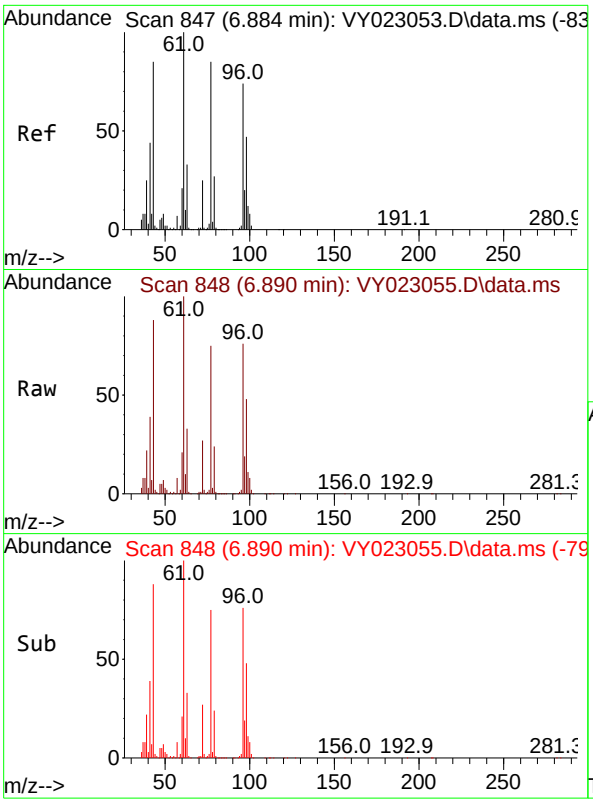




#24
1,1-Dichloroethane
Concen: 150.534 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 63 Resp: 1527663

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.4 | 3.5 | 10.6 |
| 100 | 4.8 | 2.4 | 7.1 |



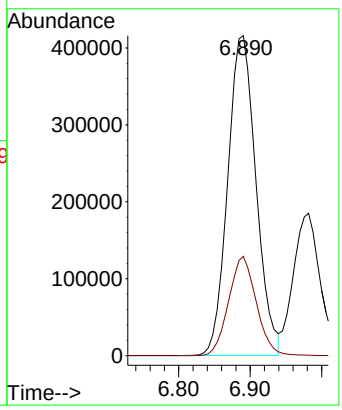


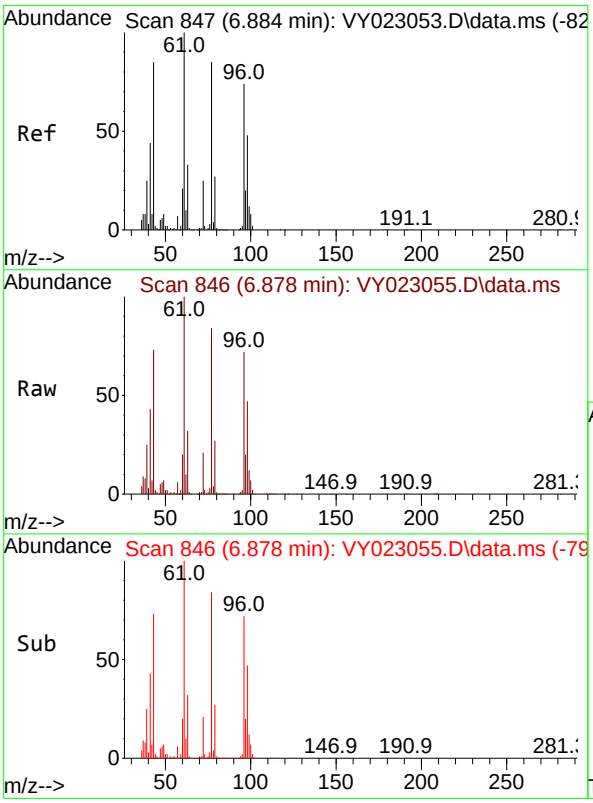

#25
2-Butanone
Concen: 756.289 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 43 Resp: 1144112

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 31.1 | 23.5 | 35.3 |

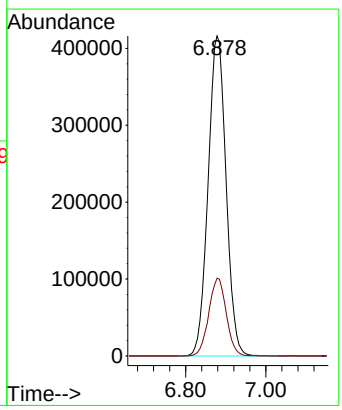


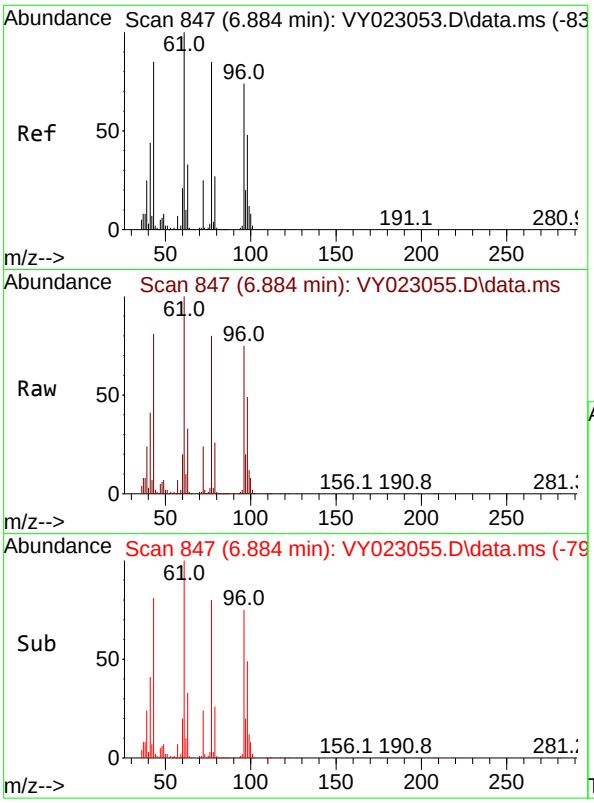




#26
2,2-Dichloropropane
Concen: 147.663 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 77 Resp: 1293043

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.8 | 11.6 | 34.8 |



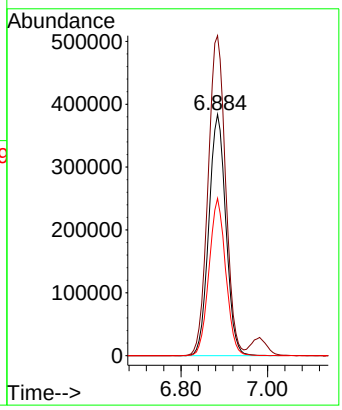


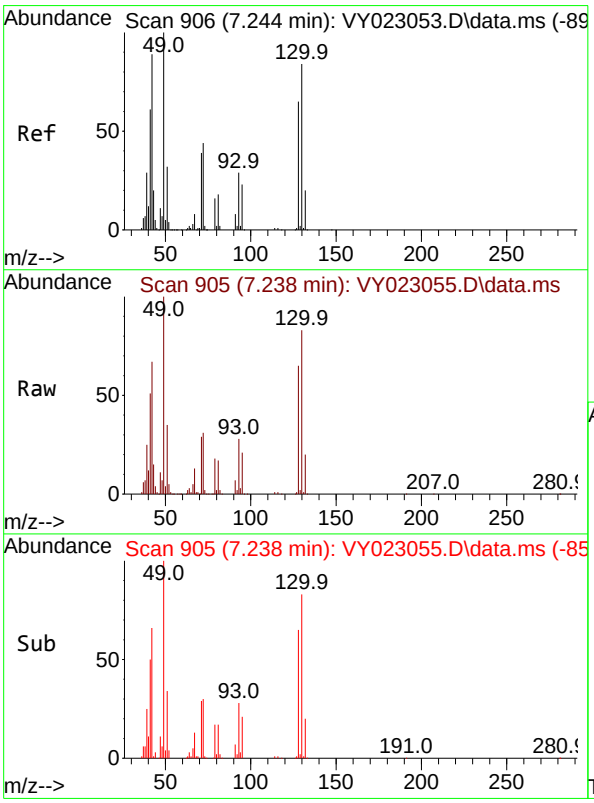

#27
cis-1,2-Dichloroethene
Concen: 155.348 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 96 Resp: 1047717

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 136.6 | 0.0 | 278.6 |
| 98 | 64.1 | 0.0 | 130.4 |

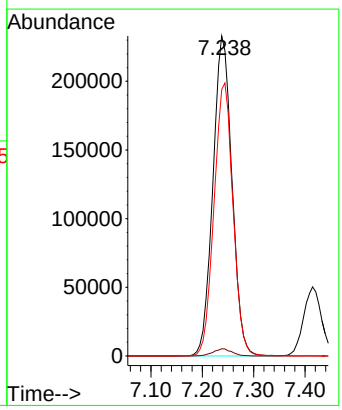


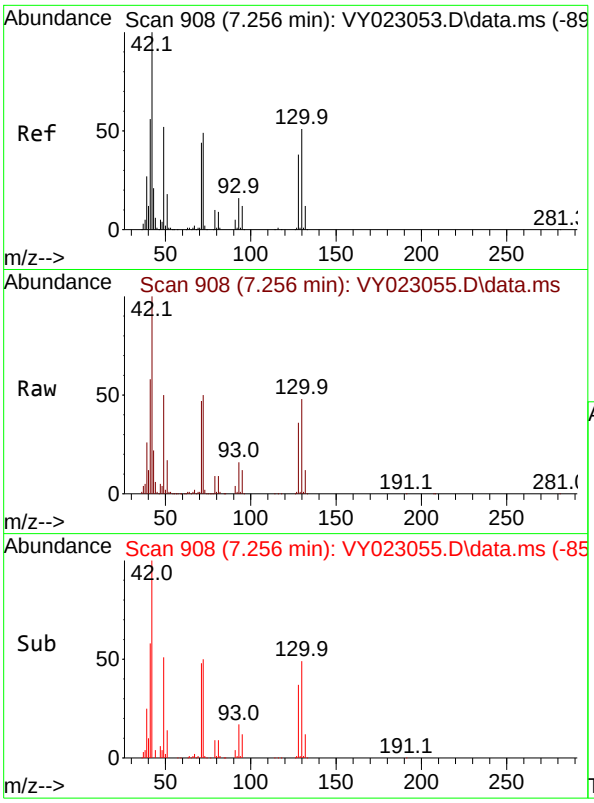




#28
Bromochloromethane
Concen: 148.984 ug/l
RT: 7.238 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 49 Resp: 599841

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.2 | 0.0 | 4.2 |
| 130 | 84.9 | 66.4 | 99.6 |



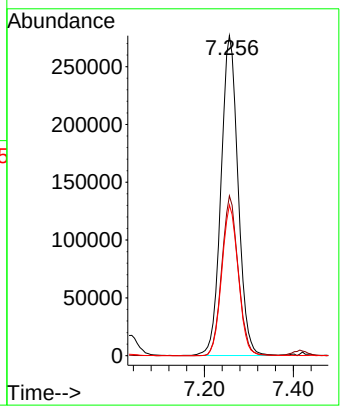


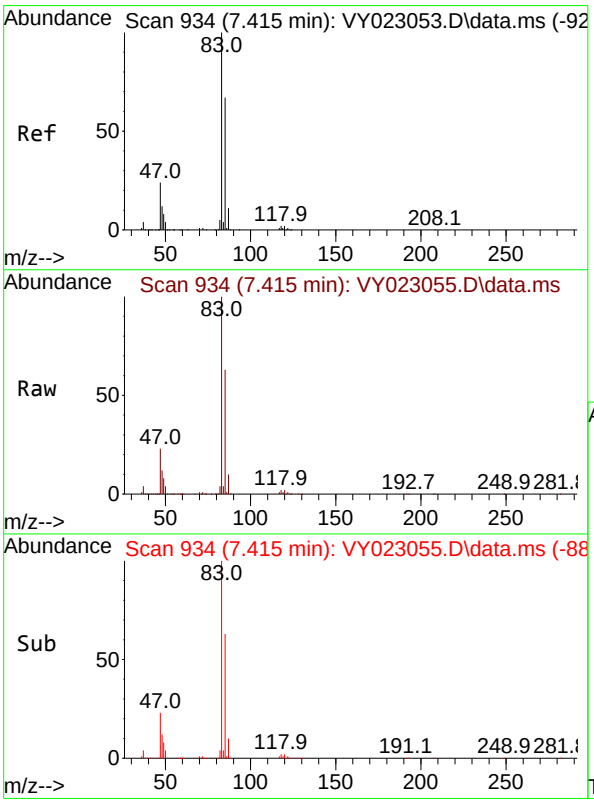

#29
Tetrahydrofuran
Concen: 783.186 ug/l
RT: 7.256 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 42 Resp: 734408

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 48.3 | 39.4 | 59.2 |
| 71 | 45.8 | 36.5 | 54.7 |

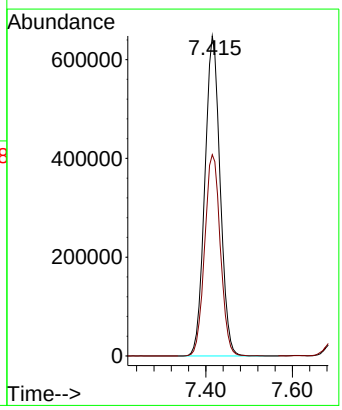


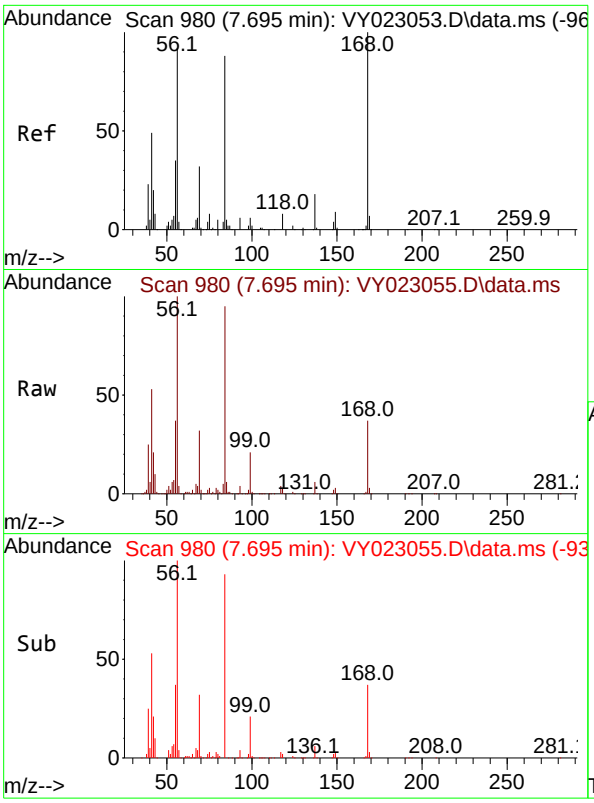




#30
Chloroform
Concen: 151.505 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 83 Resp: 1585686

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.9 | 53.8 | 80.8 |



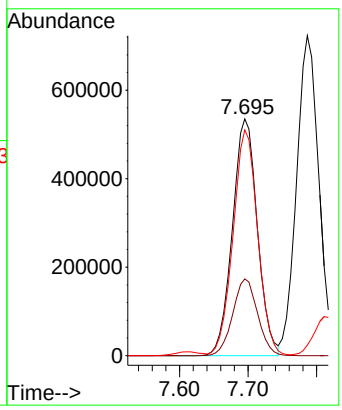


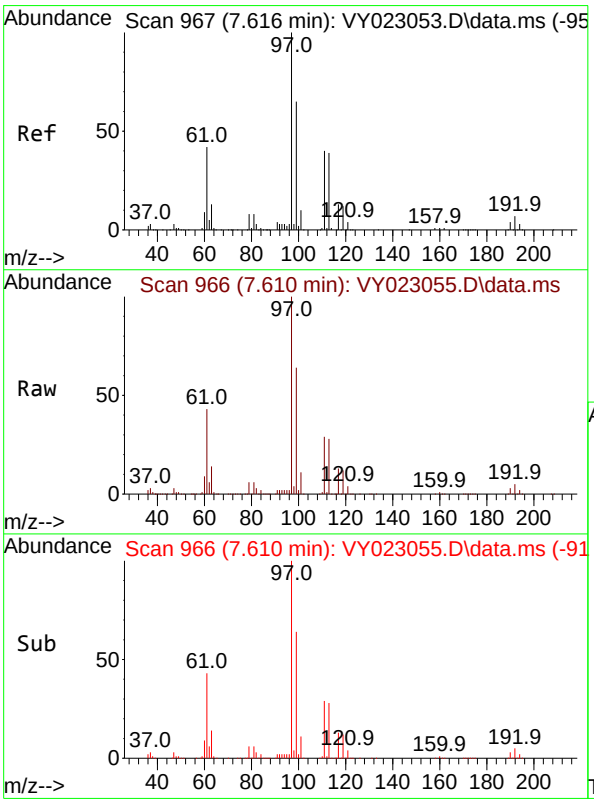

#31
Cyclohexane
Concen: 141.586 ug/l
RT: 7.695 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 56 Resp: 1354021

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 32.4 | 28.2 | 42.2 |
| 84 | 94.2 | 76.6 | 114.8 |

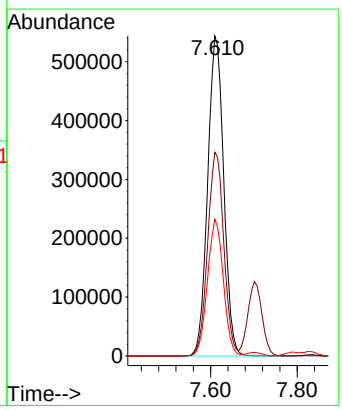


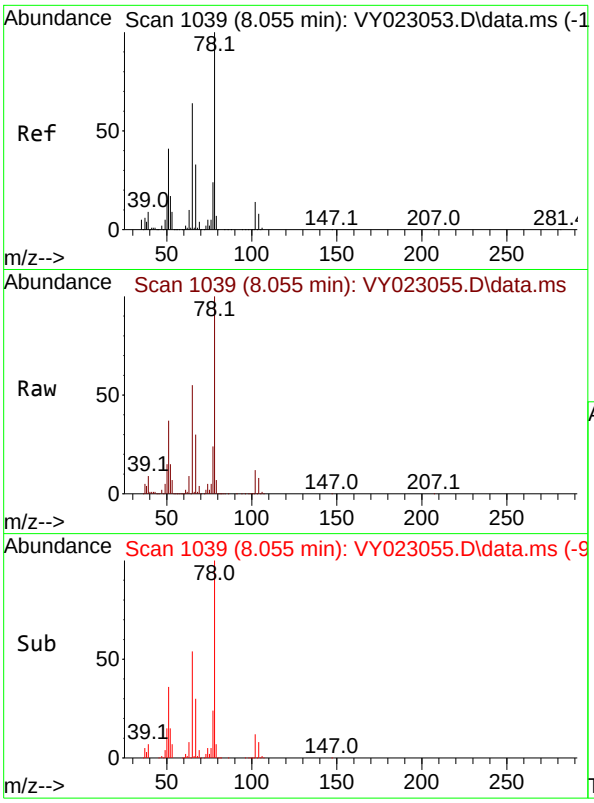




#32
1,1,1-Trichloroethane
Concen: 150.372 ug/l
RT: 7.610 min Scan# 966
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 97 Resp: 1396470

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.3 | 51.6 | 77.4 |
| 61 | 42.4 | 34.2 | 51.2 |



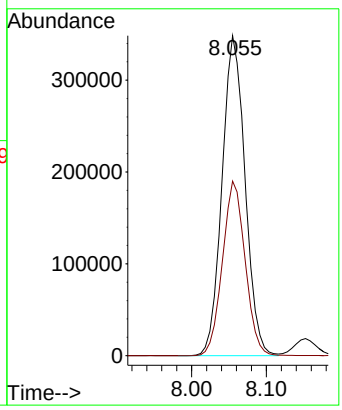


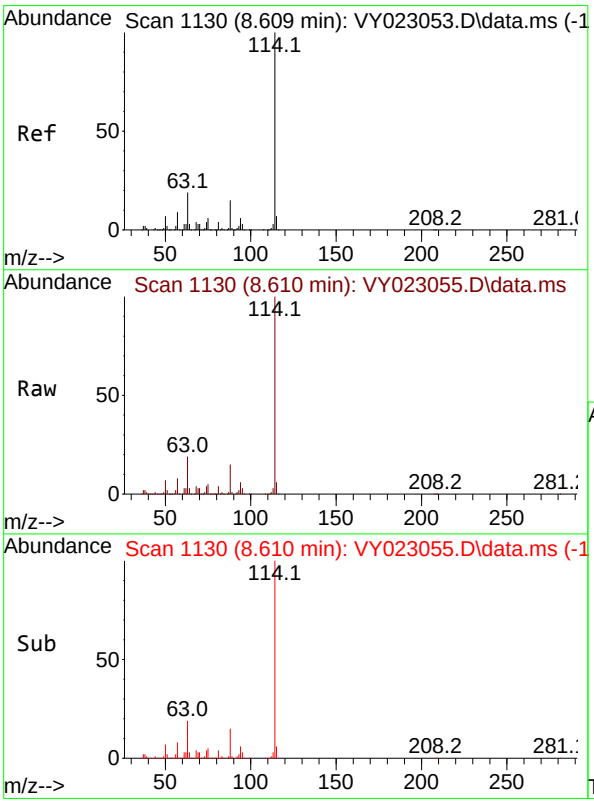

#33
1,2-Dichloroethane-d4
Concen: 145.480 ug/l
RT: 8.055 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 65 Resp: 746936

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.8 | 0.0 | 106.8 |

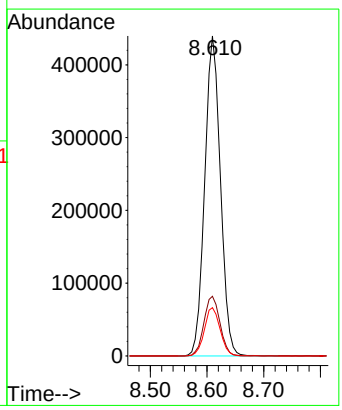


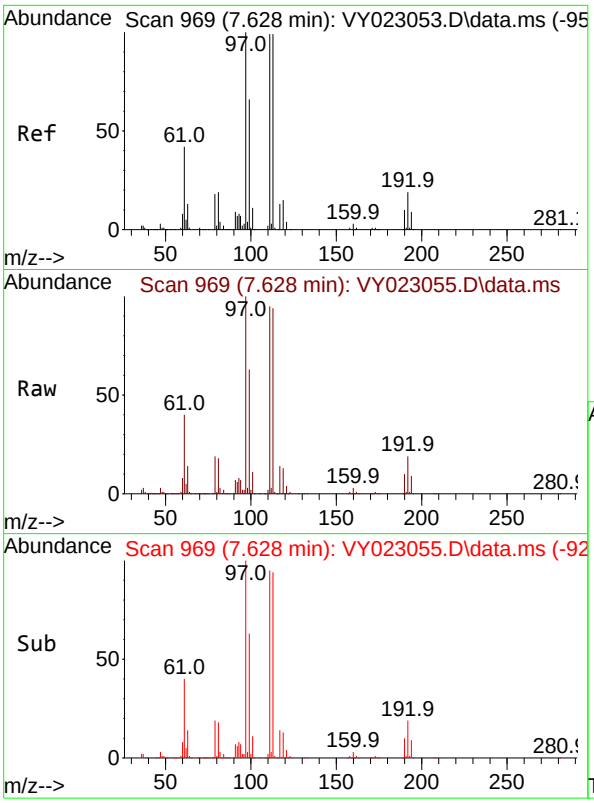




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:114 Resp: 844092

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.7 | 0.0 | 38.4 |
| 88 | 15.1 | 0.0 | 30.0 |



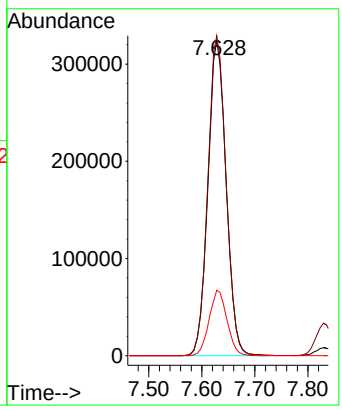


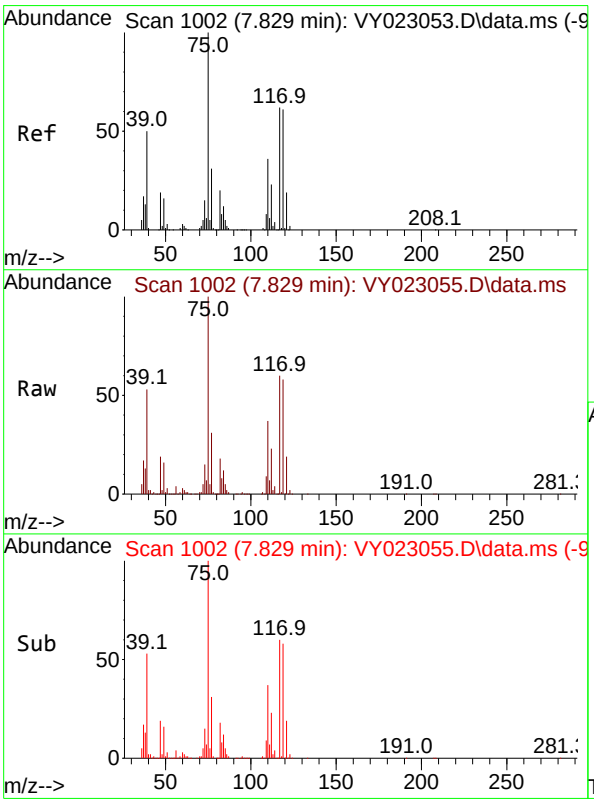

#35
Dibromofluoromethane
Concen: 152.837 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:113 Resp: 771944

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.8 | 81.1 | 121.7 |
| 192 | 20.4 | 16.2 | 24.4 |

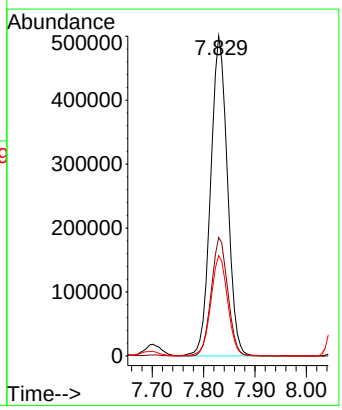


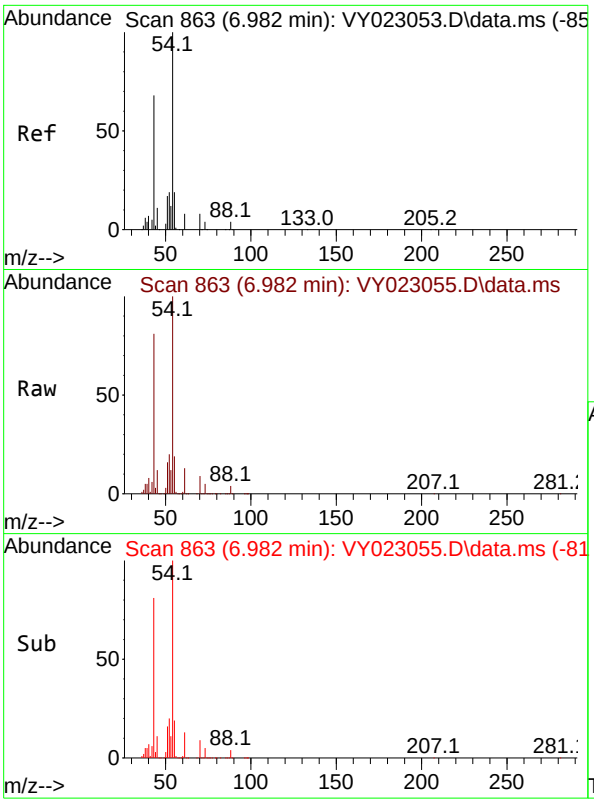




#36
1,1-Dichloropropene
Concen: 150.850 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 75 Resp: 1132306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 36.5 | 18.1 | 54.4 |
| 77 | 31.5 | 24.6 | 37.0 |



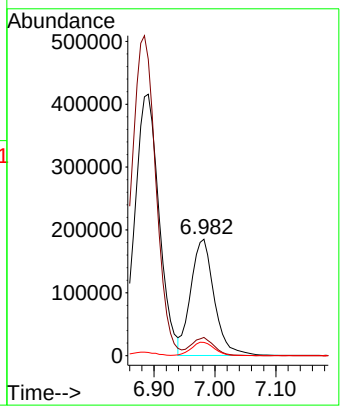


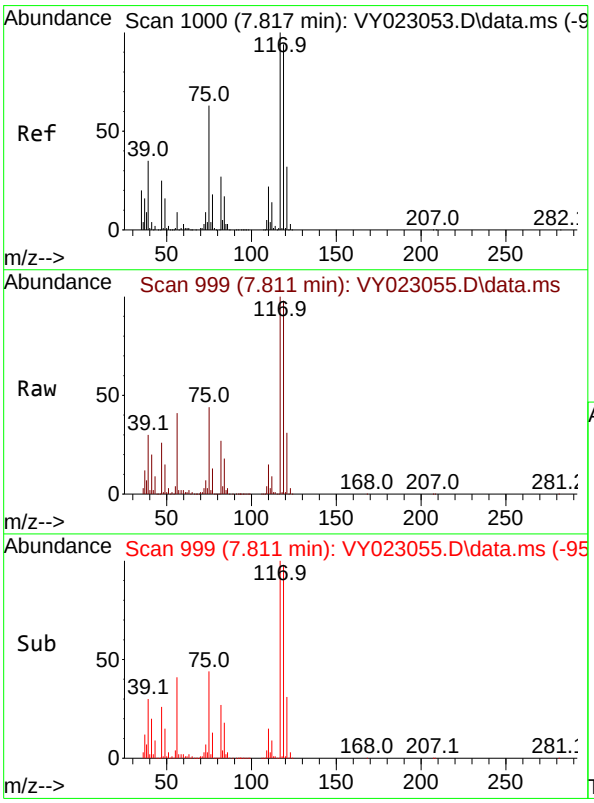

#37
Ethyl Acetate
Concen: 156.788 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 43 Resp: 494371

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 15.1 | 11.9 | 17.9 |
| 70 | 11.4 | 8.8 | 13.2 |

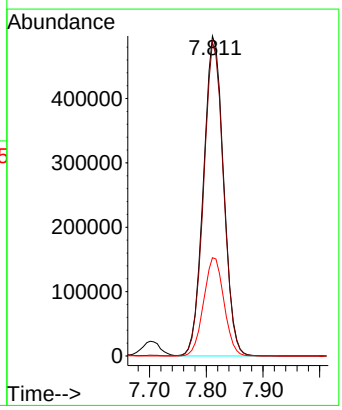


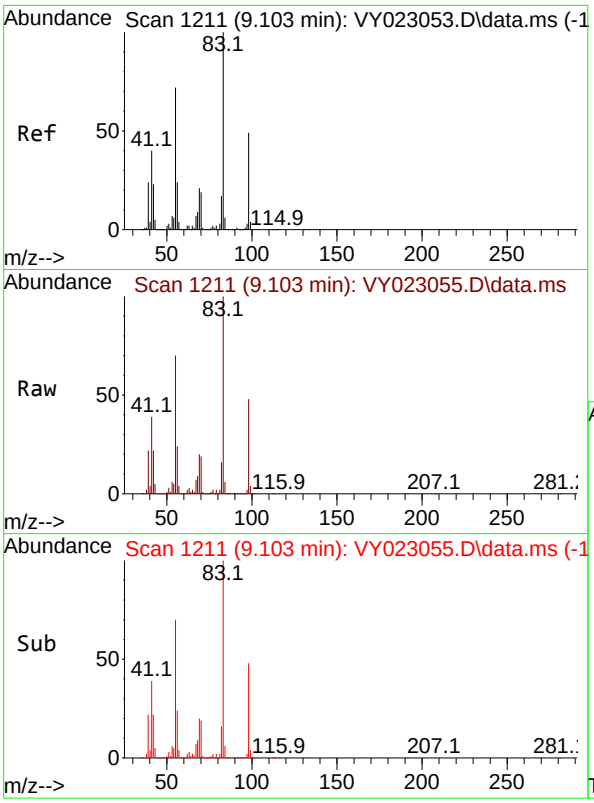




#38
Carbon Tetrachloride
Concen: 150.478 ug/l
RT: 7.811 min Scan# 999
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:117 Resp: 1226800

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 98.1 | 75.6 | 113.4 |
| 121 | 30.7 | 25.8 | 38.8 |



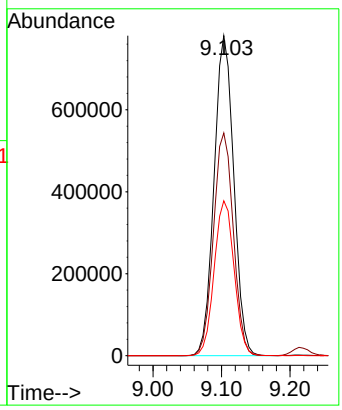


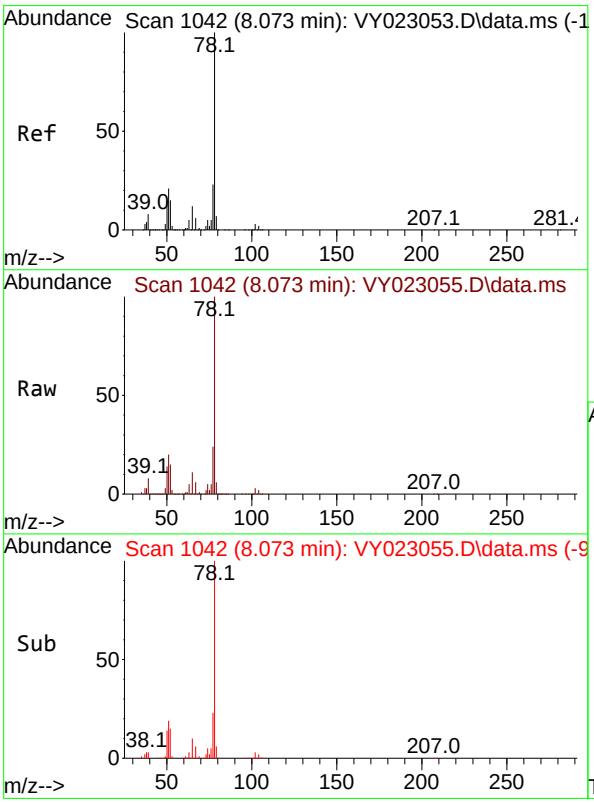

#39
Methylcyclohexane
Concen: 157.417 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 83 Resp: 1556004

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 69.6 | 57.6 | 86.4 |
| 98 | 48.4 | 39.2 | 58.8 |

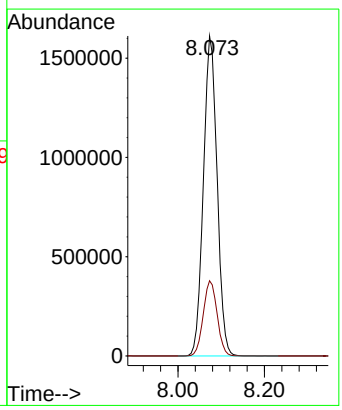


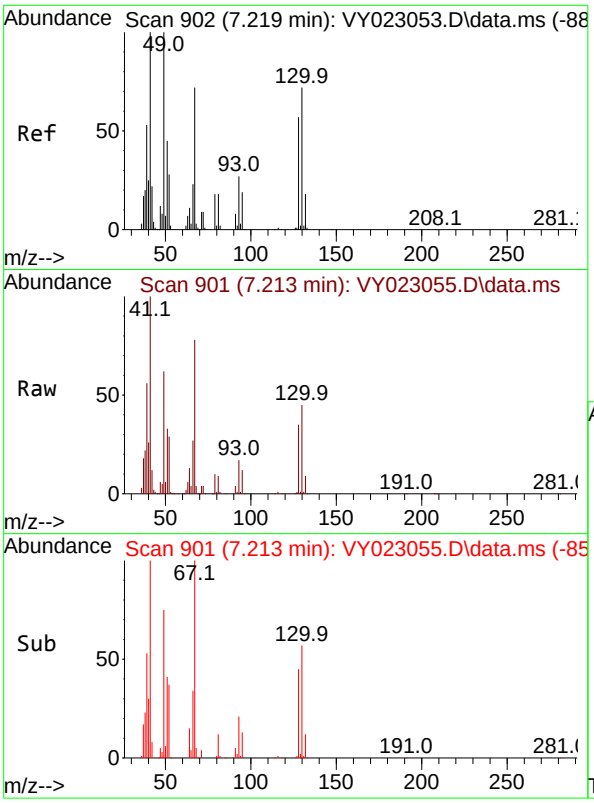




#40
Benzene
Concen: 152.720 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 78 Resp: 3533174

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.5 | 18.6 | 28.0 |



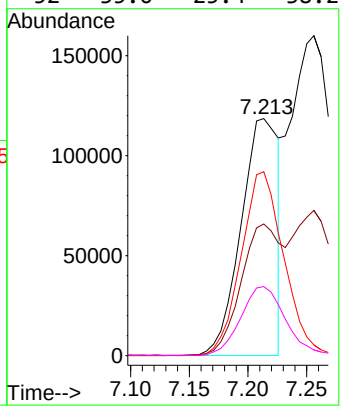


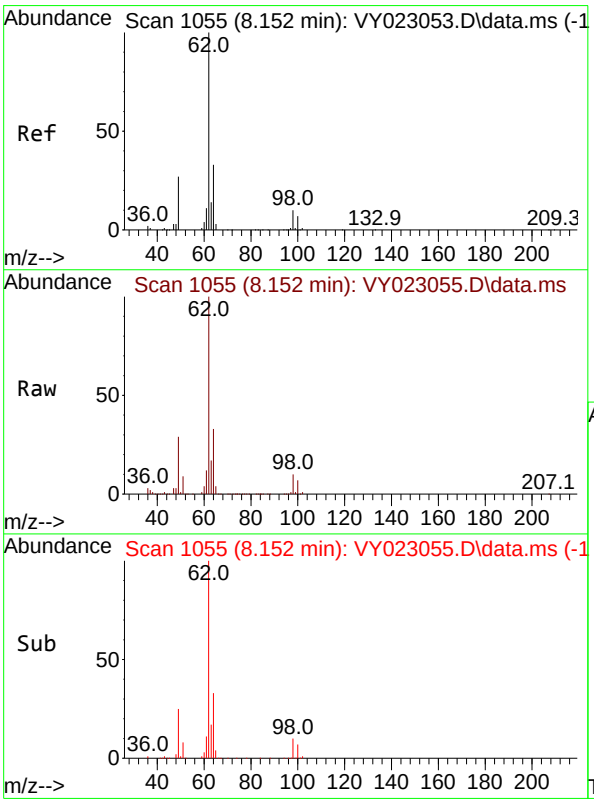

#41
Methacrylonitrile
Concen: 143.669 ug/l
RT: 7.213 min Scan# 9(
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 41 Resp: 261721

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 62.2 | 43.4 | 65.2 |
| 67 | 89.0 | 63.6 | 95.4 |
| 52 | 35.0 | 25.4 | 38.2 |

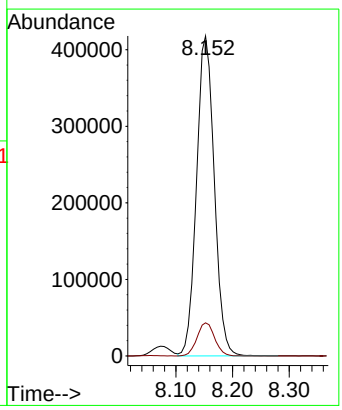


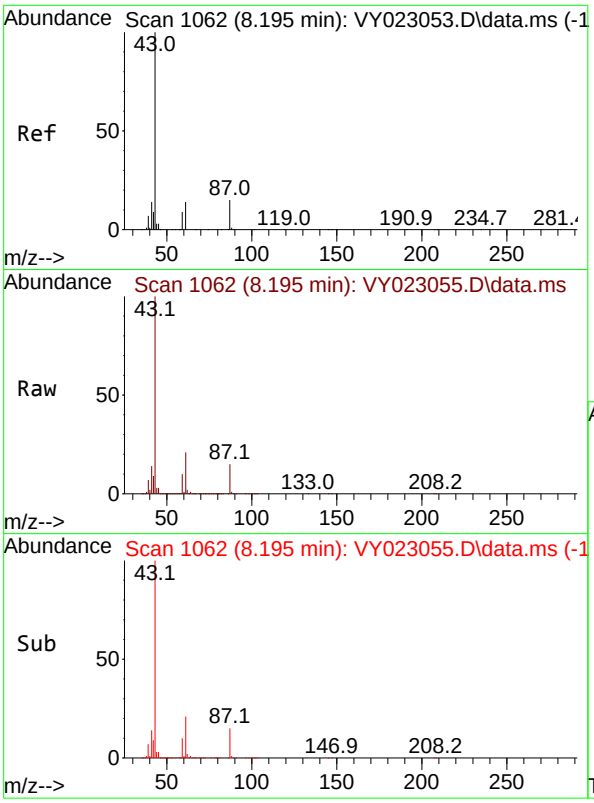




#42
1,2-Dichloroethane
Concen: 151.078 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 62 Resp: 909030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.3 | 0.0 | 20.6 |



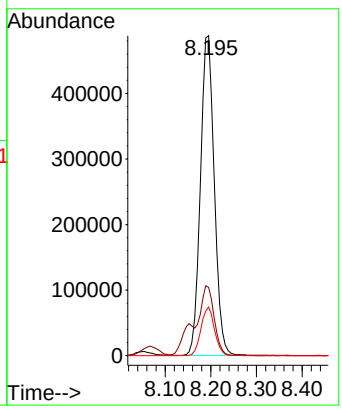


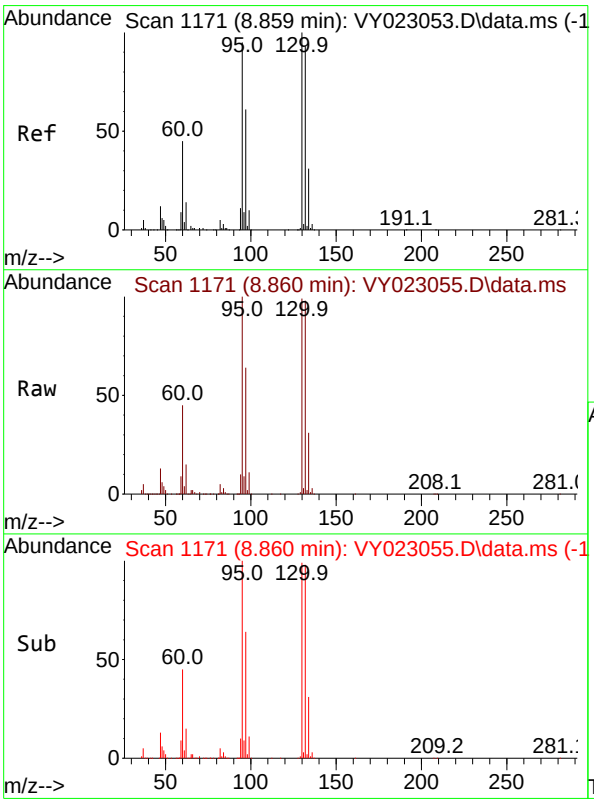

#43
Isopropyl Acetate
Concen: 161.596 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 43 Resp: 1029854

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 22.1 | 16.4 | 24.6 |
| 87 | 14.8 | 11.8 | 17.6 |

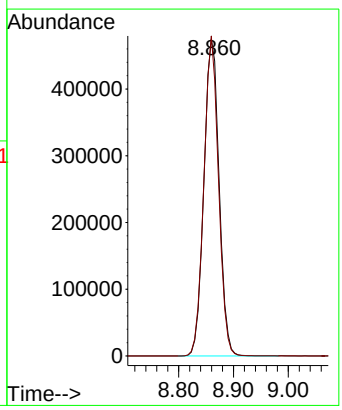


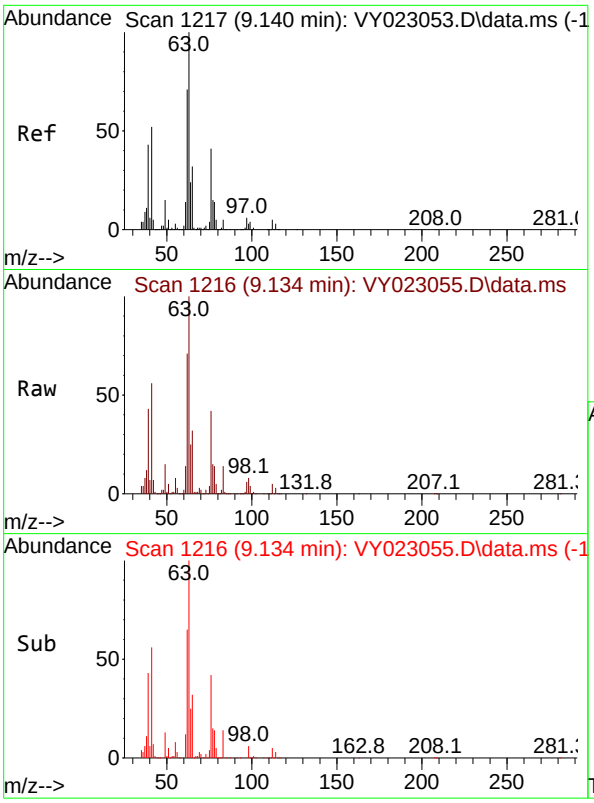




#44
Trichloroethene
Concen: 152.126 ug/l
RT: 8.860 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:130 Resp: 909510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 101.0 | 0.0 | 190.2 |



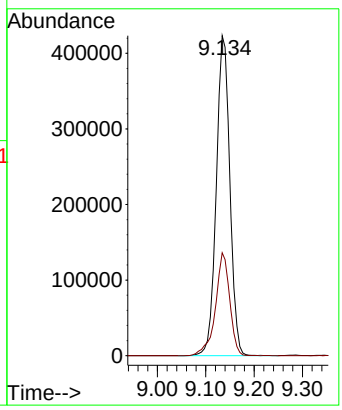


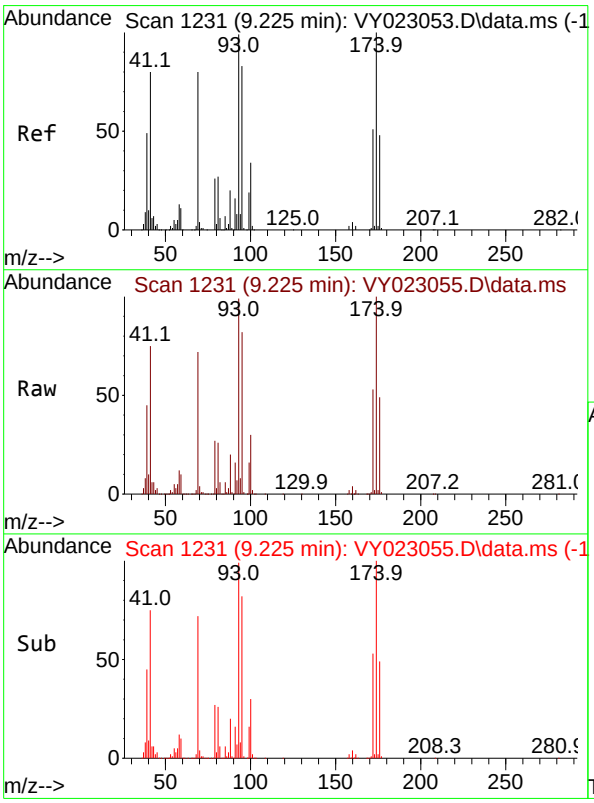

#45
1,2-Dichloropropane
Concen: 154.426 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 63 Resp: 822035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 32.1 | 25.3 | 37.9 |

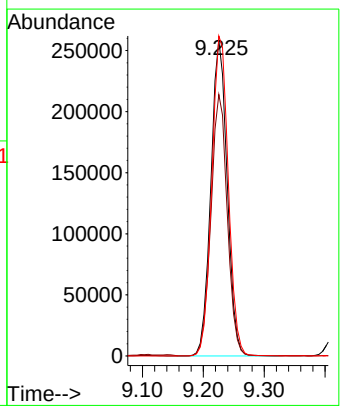


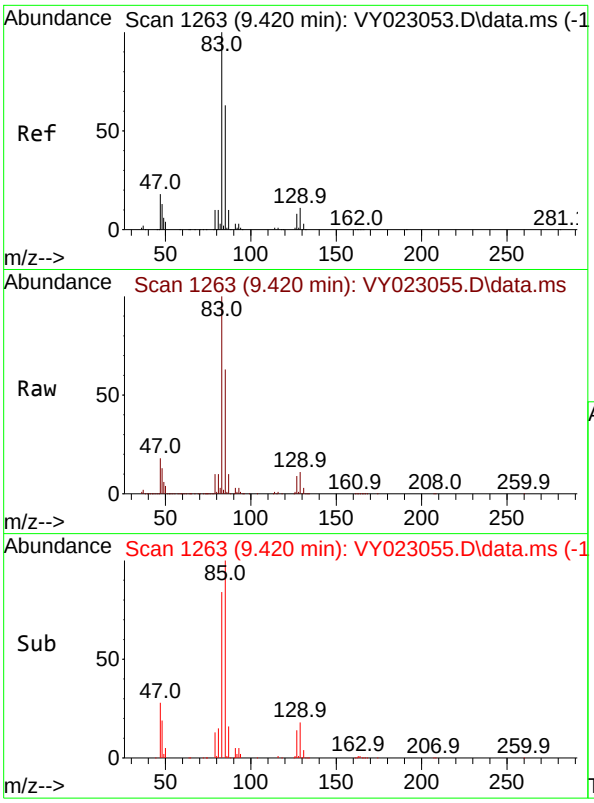




#46
Dibromomethane
Concen: 157.156 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 93 Resp: 480162

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.8 | 66.5 | 99.7 |
| 174 | 102.6 | 81.8 | 122.8 |



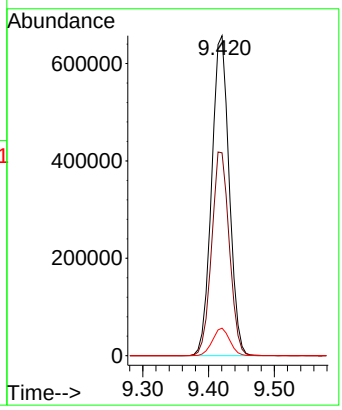


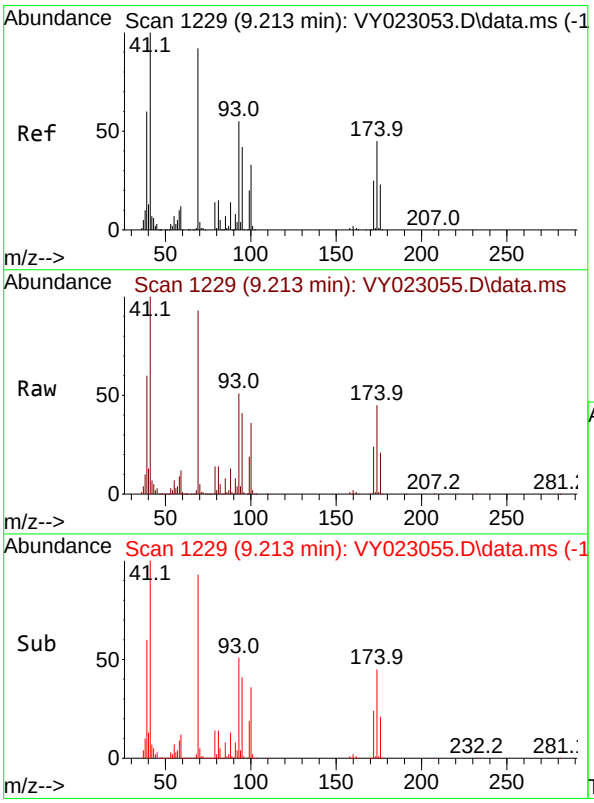

#47
Bromodichloromethane
Concen: 154.884 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 83 Resp: 1217658

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.4 | 50.2 | 75.4 |
| 127 | 8.6 | 6.6 | 10.0 |

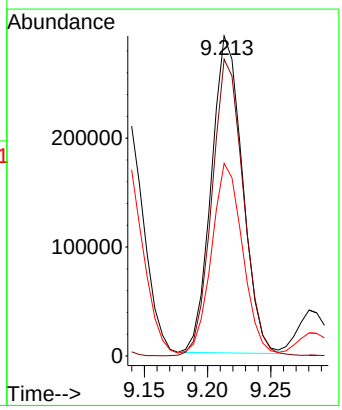


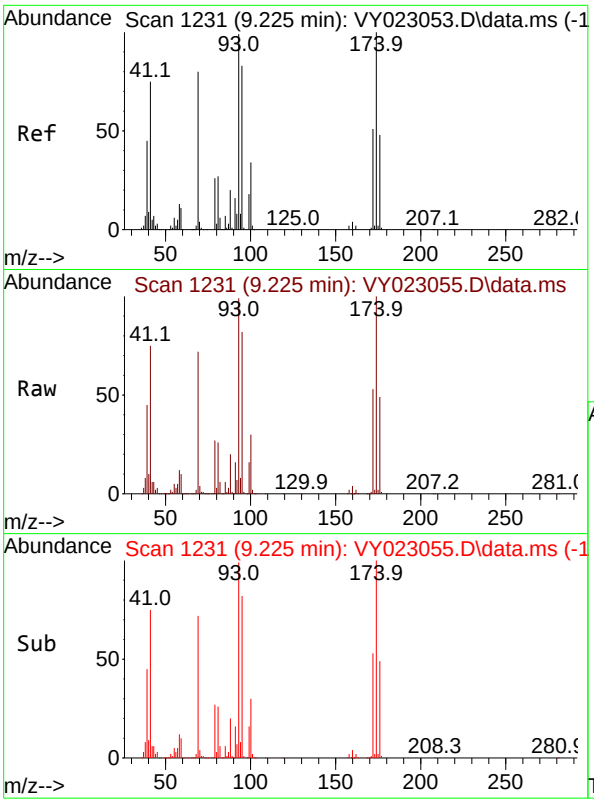




#48
Methyl methacrylate
Concen: 163.144 ug/l
RT: 9.213 min Scan# 1229
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 41 Resp: 497527

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 95.0 | 73.2 | 109.8 |
| 39 | 59.3 | 47.0 | 70.4 |



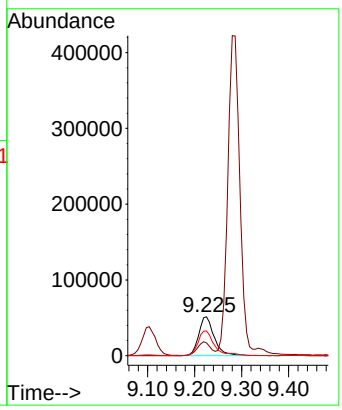


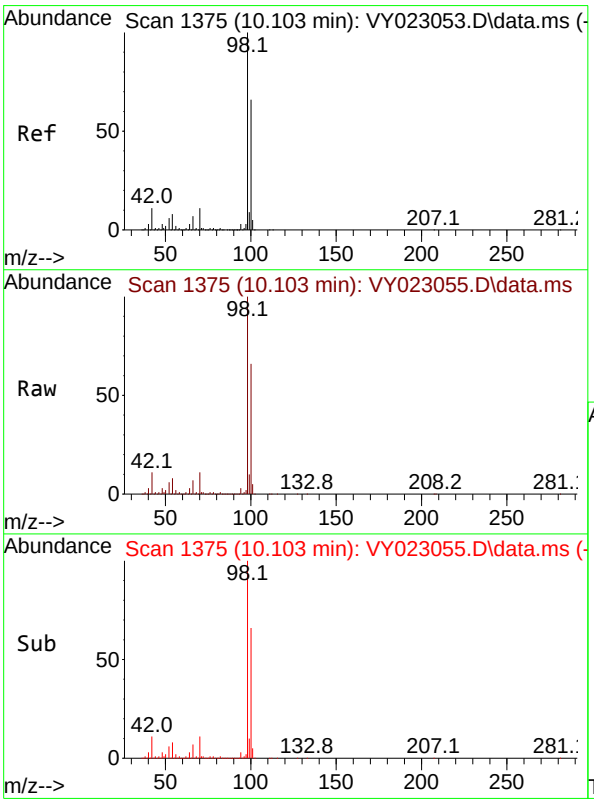

#49
1,4-Dioxane
Concen: 3280.235 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 88 Resp: 117513

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 30.0 | 24.3 | 36.5 |
| 58 | 67.5 | 55.4 | 83.0 |

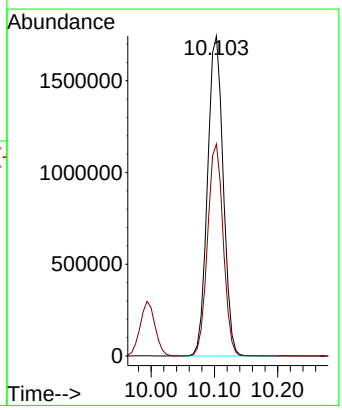


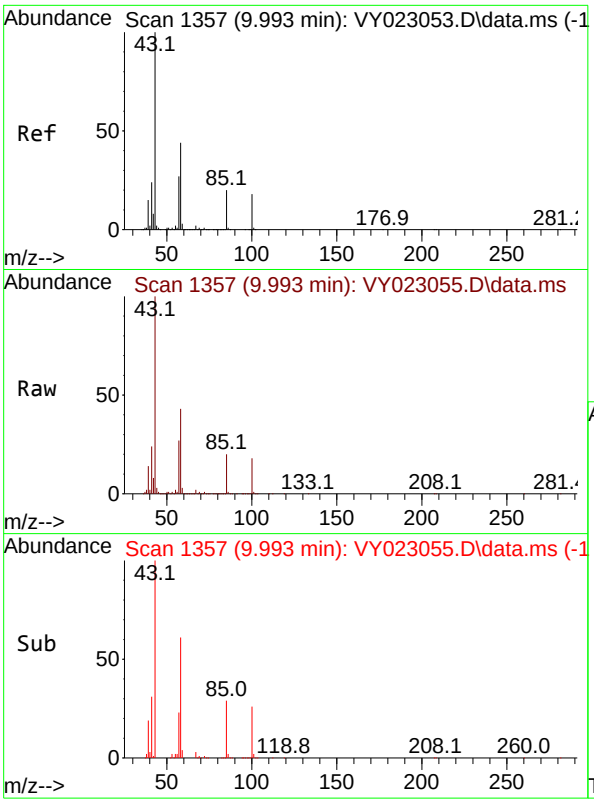




#50
Toluene-d8
Concen: 152.237 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 98 Resp: 3003834

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.0 | 52.3 | 78.5 |



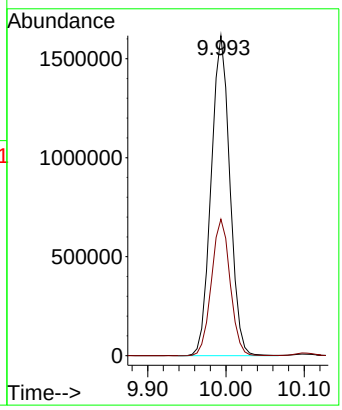


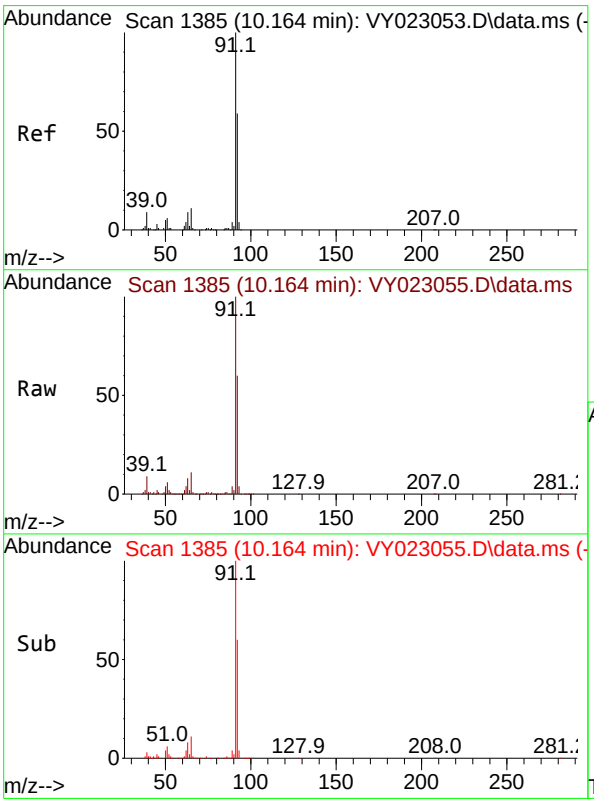

#51
4-Methyl-2-Pentanone
Concen: 814.509 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 43 Resp: 2677587

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 42.6 | 33.5 | 50.3 |

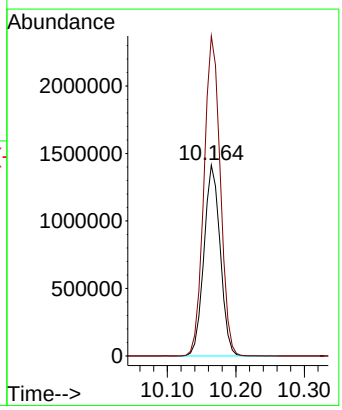


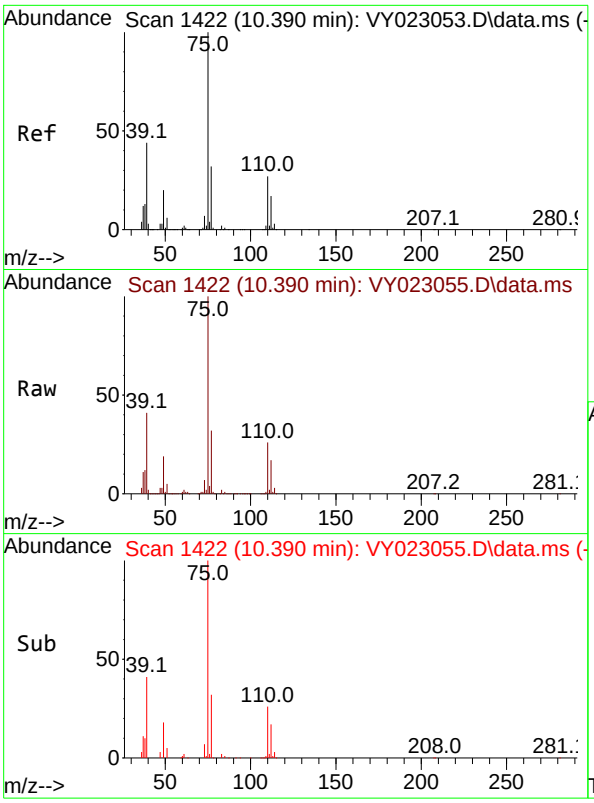




#52
Toluene
Concen: 158.762 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 92 Resp: 2332797

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 168.8 | 136.4 | 204.6 |



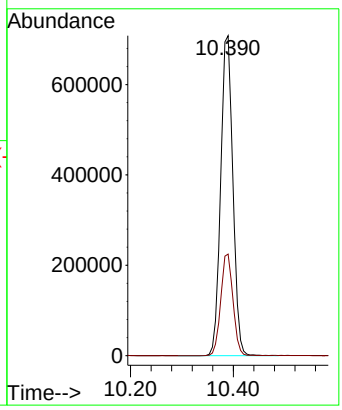


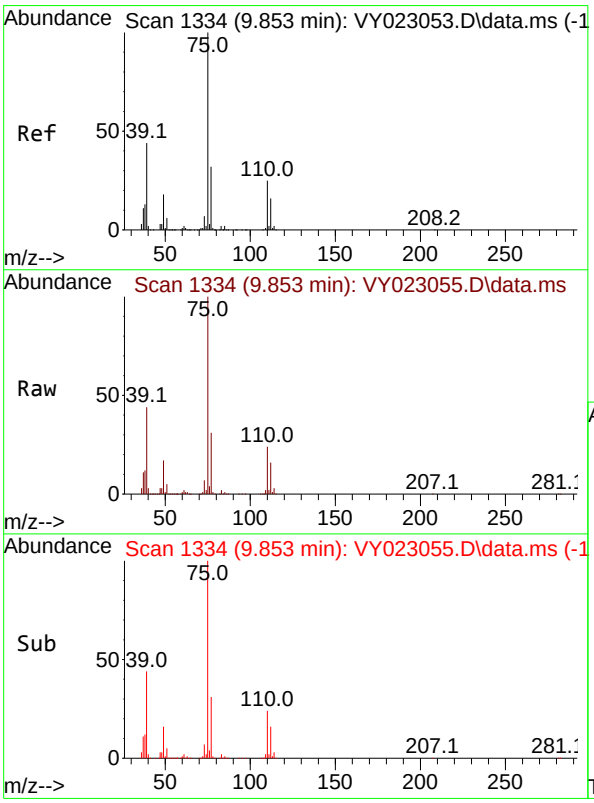

#53
t-1,3-Dichloropropene
Concen: 163.355 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 75 Resp: 1162952

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.8 | 25.7 | 38.5 |

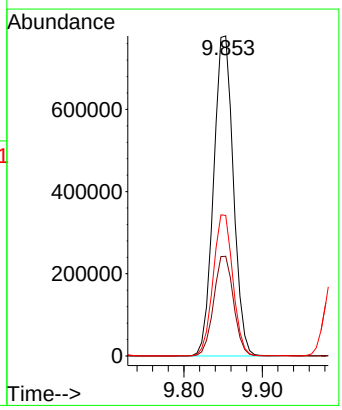


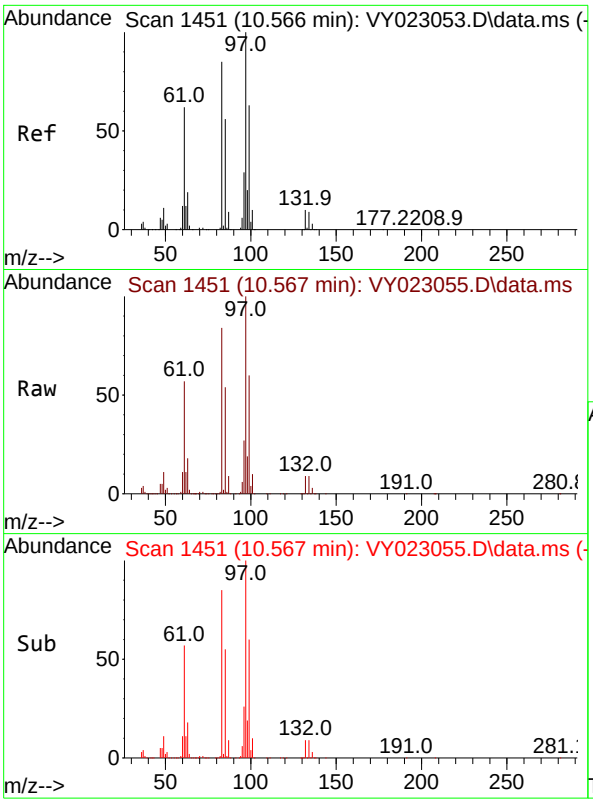




#54
cis-1,3-Dichloropropene
Concen: 162.359 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 75 Resp: 1366797

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.1 | 25.4 | 38.0 |
| 39 | 43.9 | 35.6 | 53.4 |



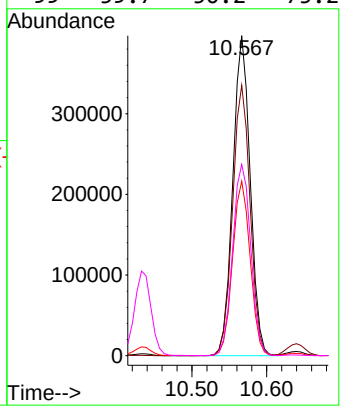


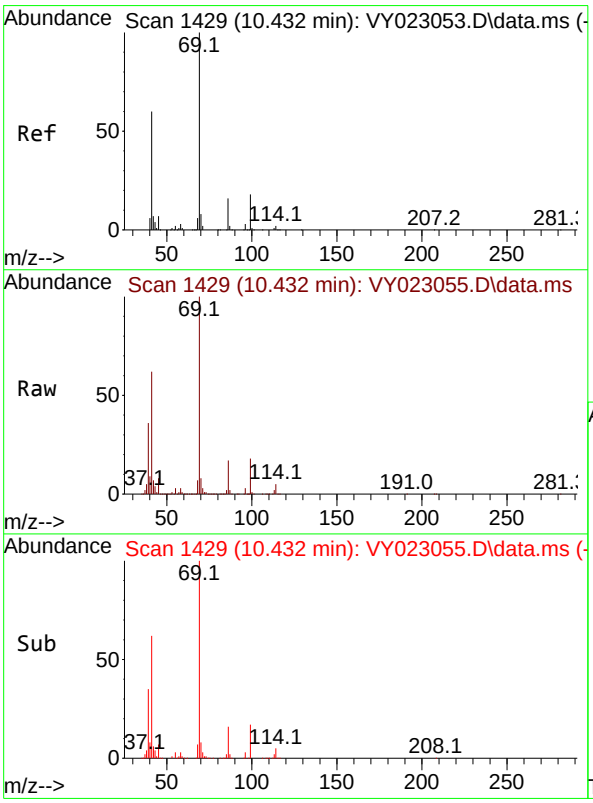

#55
1,1,2-Trichloroethane
Concen: 157.090 ug/l
RT: 10.567 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 97 Resp: 642236

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 84.5 | 67.7 | 101.5 |
| 85 | 54.5 | 44.5 | 66.7 |
| 99 | 59.7 | 50.2 | 75.2 |

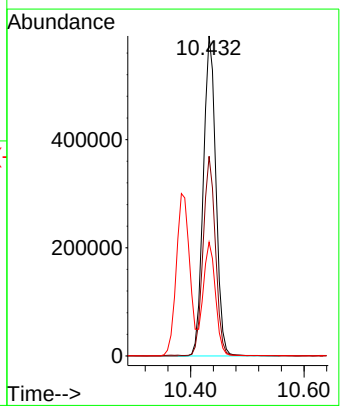


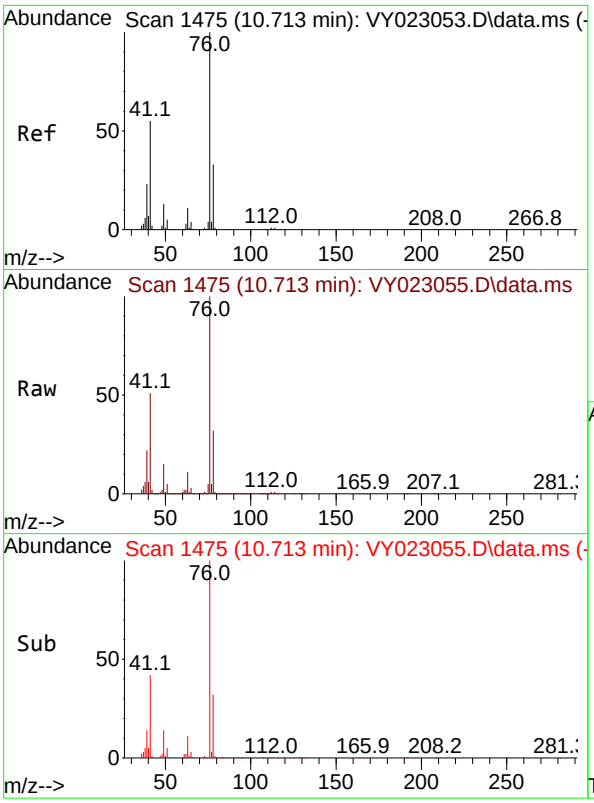




#56
Ethyl methacrylate
Concen: 173.693 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 69 Resp: 908662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 60.9 | 48.6 | 72.8 |
| 39 | 33.4 | 27.0 | 40.4 |



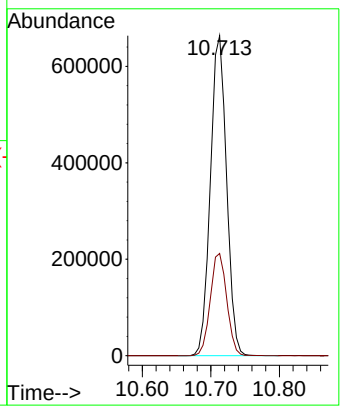


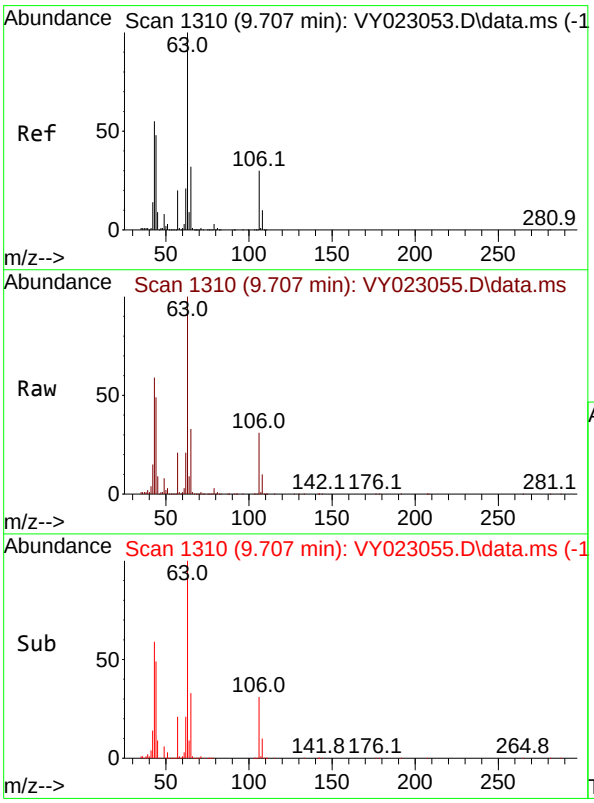

#57
1,3-Dichloropropane
Concen: 156.818 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 76 Resp: 1087297

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.5 | 26.0 | 39.0 |

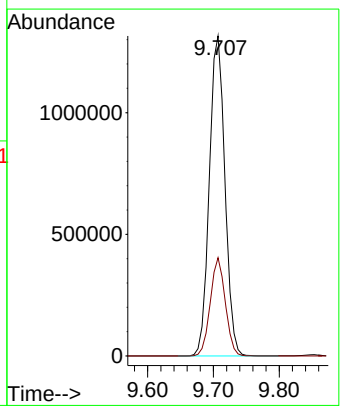


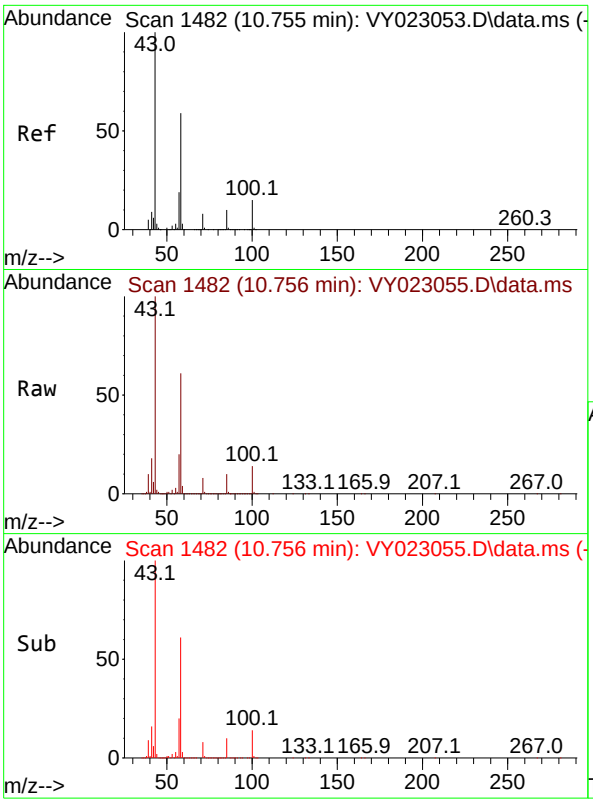




#58
2-Chloroethyl Vinyl ether
Concen: 878.488 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 63 Resp: 2167815

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 29.6 | 23.2 | 34.8 |



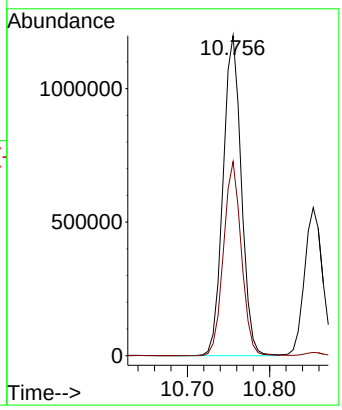


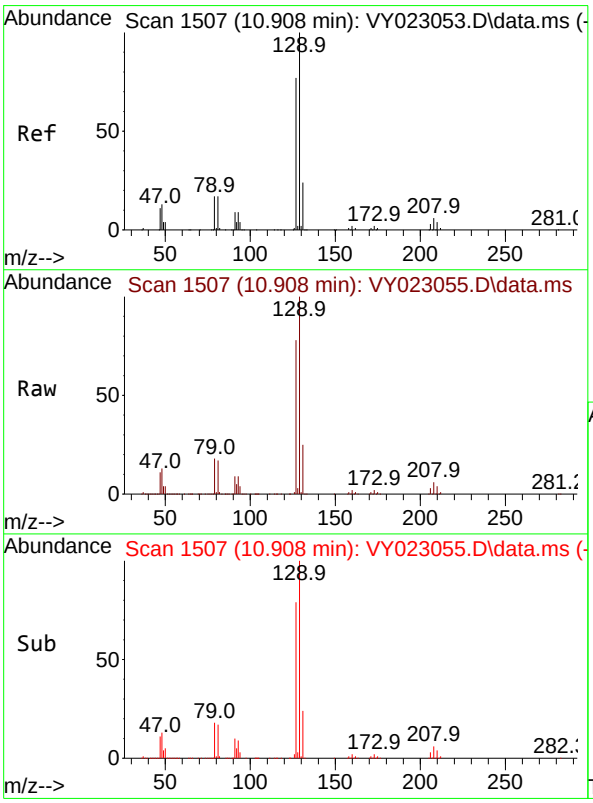

#59
2-Hexanone
Concen: 825.606 ug/l
RT: 10.756 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 43 Resp: 1848093

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 59.3 | 29.5 | 88.5 |

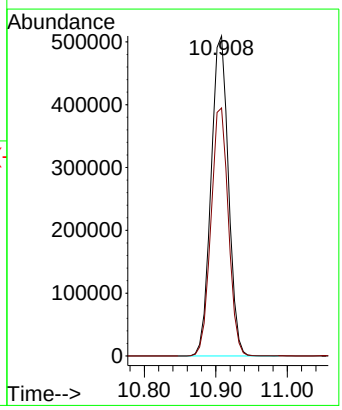


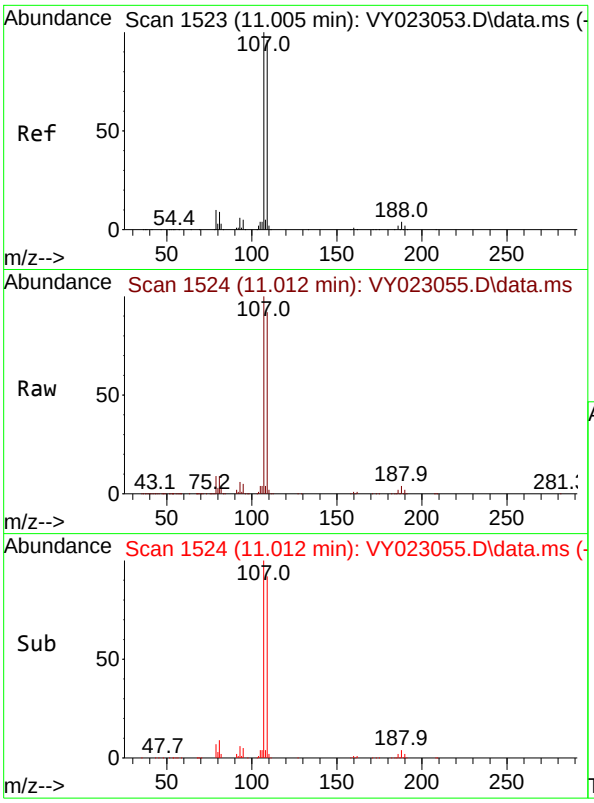




#60
Dibromochloromethane
Concen: 159.454 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:129 Resp: 860181

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.5 | 38.5 | 115.5 |



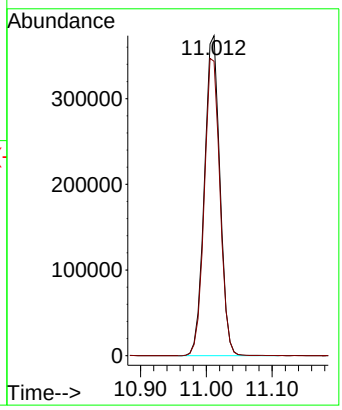


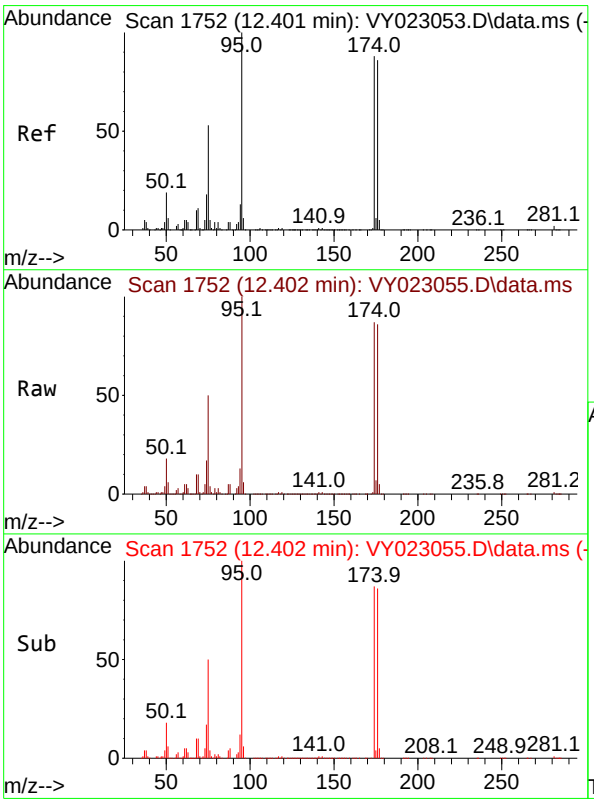

#61
1,2-Dibromoethane
Concen: 159.546 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:107 Resp: 613069

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.9 | 75.6 | 113.4 |

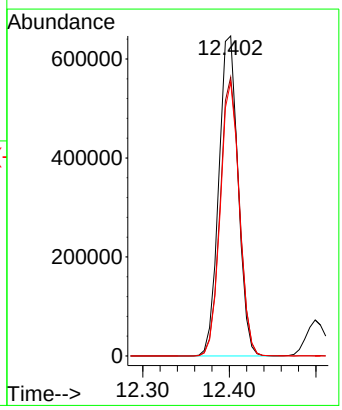


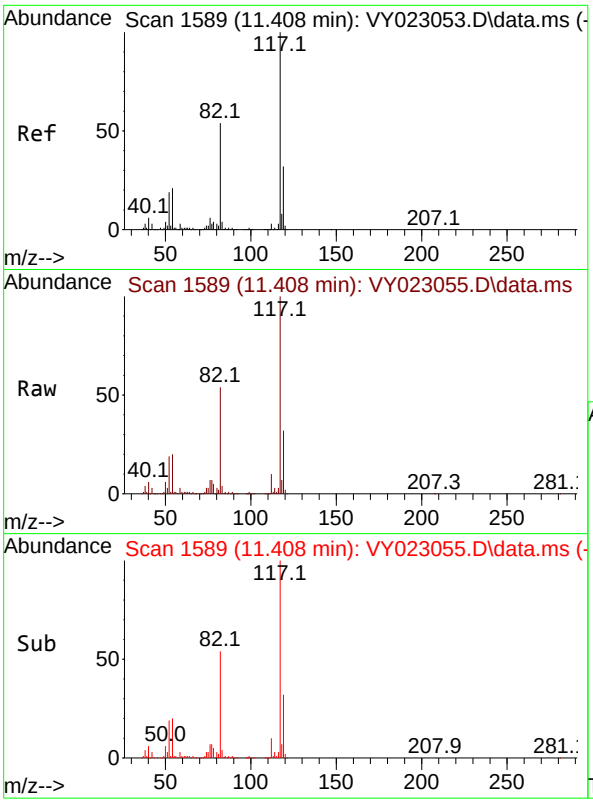




#62
4-Bromofluorobenzene
Concen: 157.326 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 95 Resp: 998318

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 86.9 | 0.0 | 171.6 |
| 176 | 84.6 | 0.0 | 167.6 |



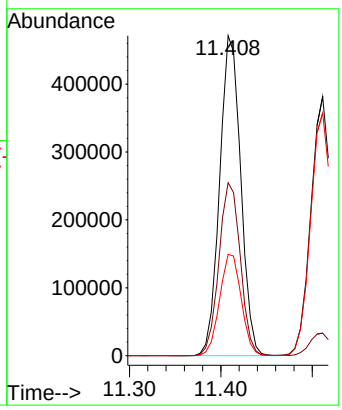


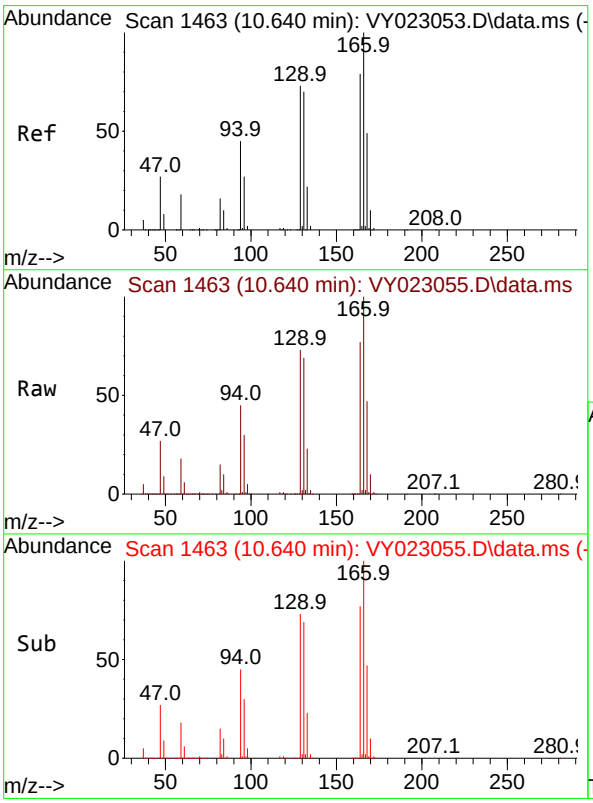

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.408 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:117 Resp: 756365

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.0 | 43.4 | 65.0 |
| 119 | 31.7 | 25.6 | 38.4 |

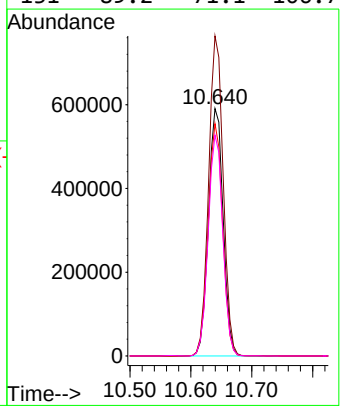


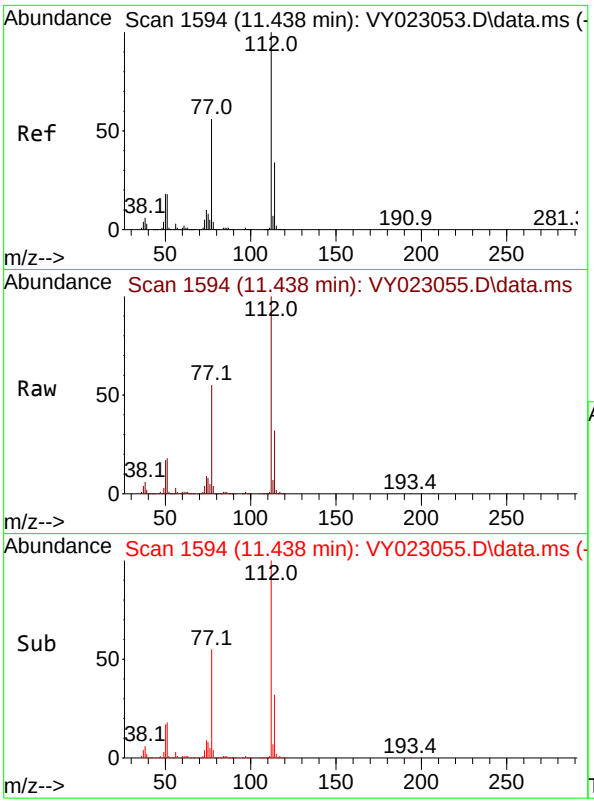




#64
Tetrachloroethene
Concen: 146.682 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:164 Resp: 990664

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 129.4 | 101.1 | 151.7 |
| 129 | 93.9 | 74.0 | 111.0 |
| 131 | 89.2 | 71.1 | 106.7 |



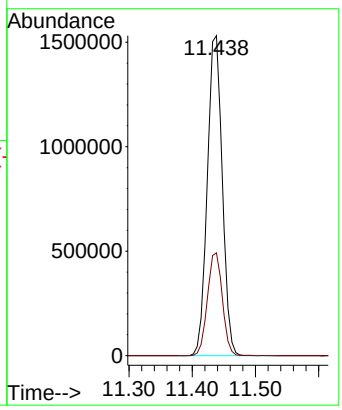


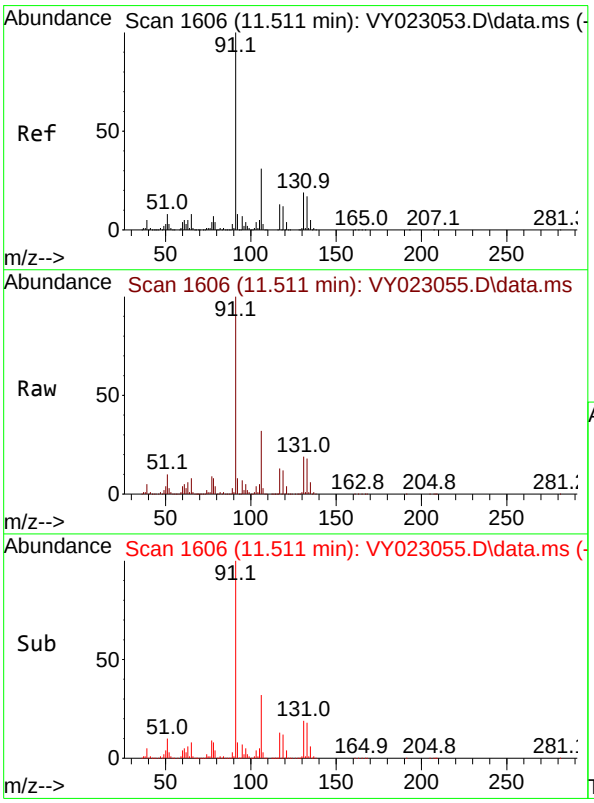

#65
Chlorobenzene
Concen: 154.514 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:112 Resp: 2520874

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.2 | 27.0 | 40.4 |

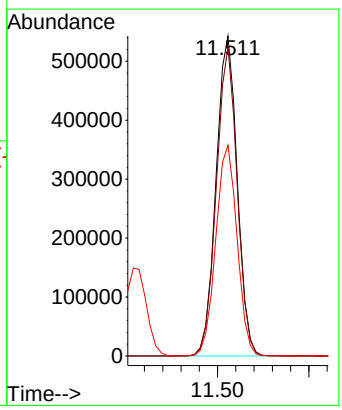


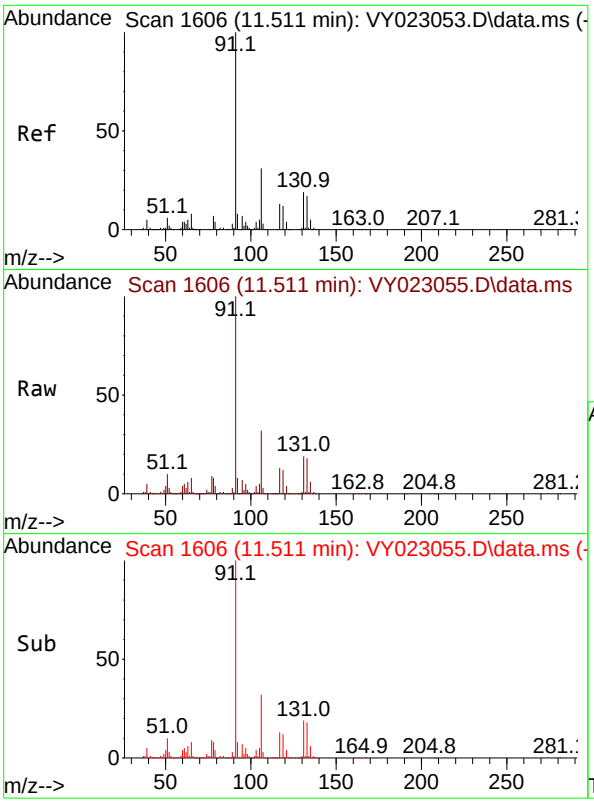




#66
1,1,1,2-Tetrachloroethane
Concen: 157.304 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:131 Resp: 871003

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.1 | 46.9 | 140.6 |
| 119 | 66.5 | 33.2 | 99.6 |



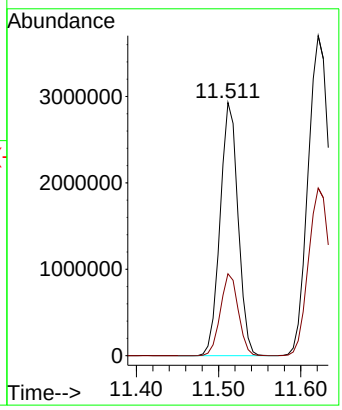


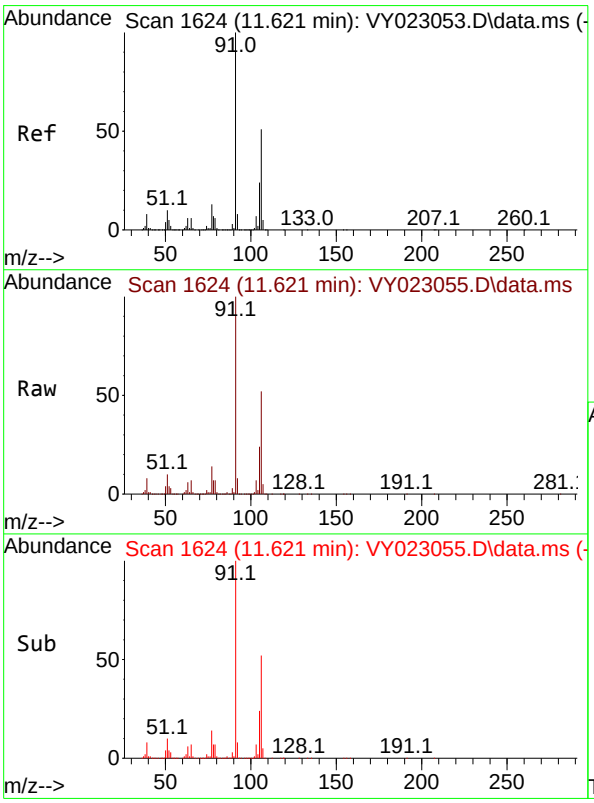

#67
Ethyl Benzene
Concen: 158.093 ug/l
RT: 11.511 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 91 Resp: 4438665

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 32.4 | 25.0 | 37.4 |

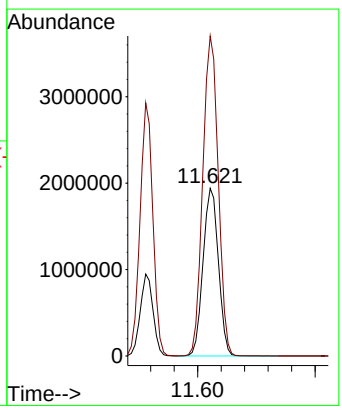


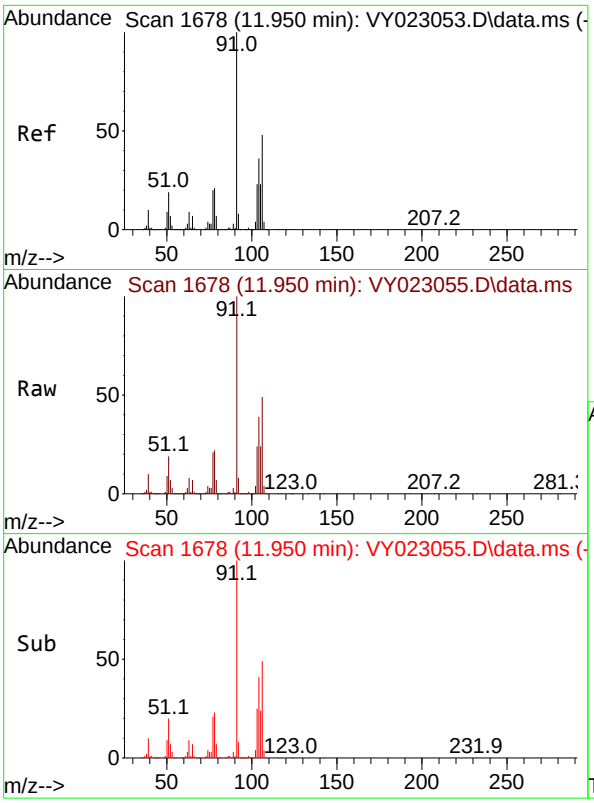




#68
m/p-Xylenes
Concen: 320.251 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:106 Resp: 3511726

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 192.1 | 158.6 | 238.0 |



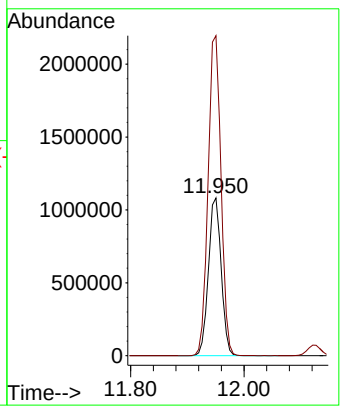


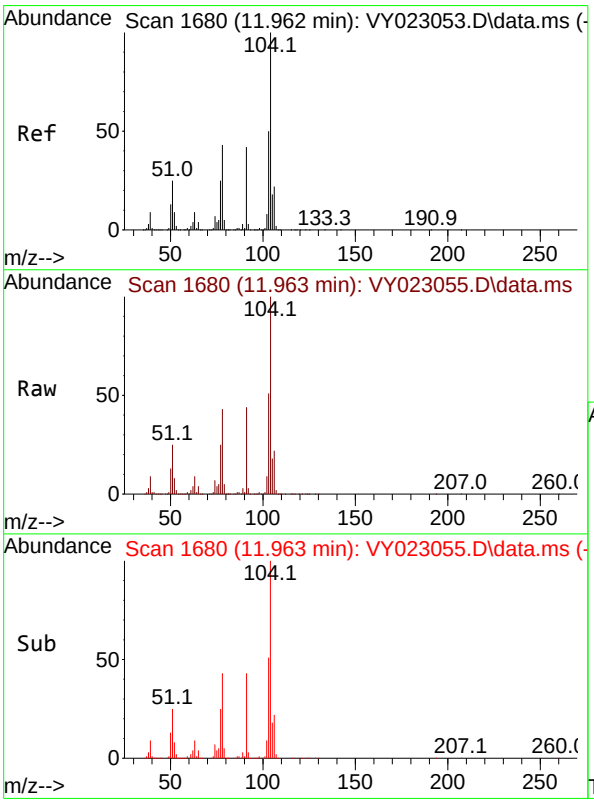

#69
o-Xylene
Concen: 163.941 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:106 Resp: 1683720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 205.5 | 103.2 | 309.4 |

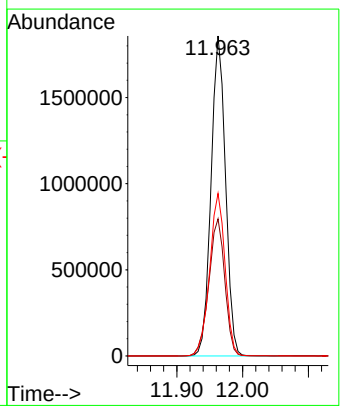


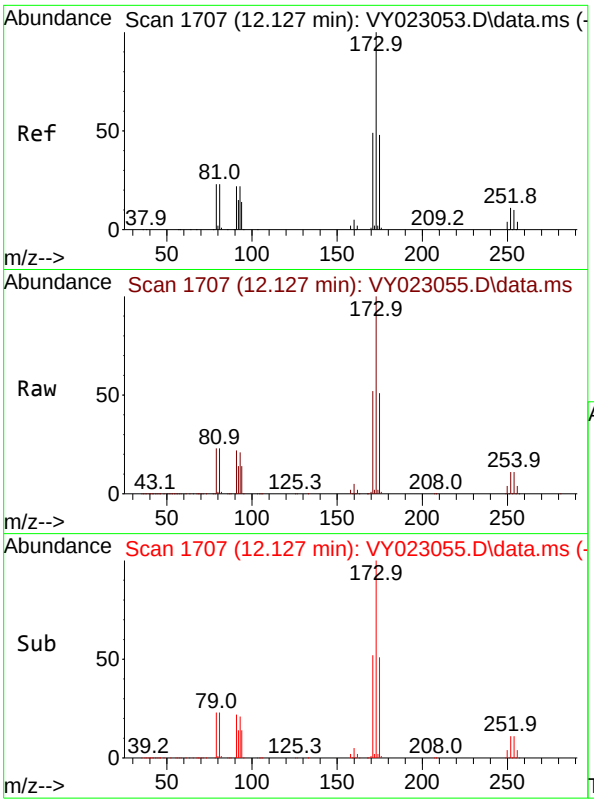




#70
Styrene
Concen: 169.475 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:104 Resp: 2846443

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 47.2 | 38.5 | 57.7 |
| 103 | 54.3 | 43.7 | 65.5 |



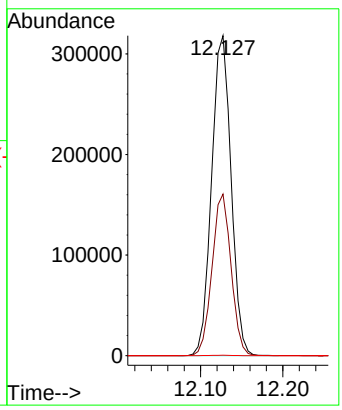


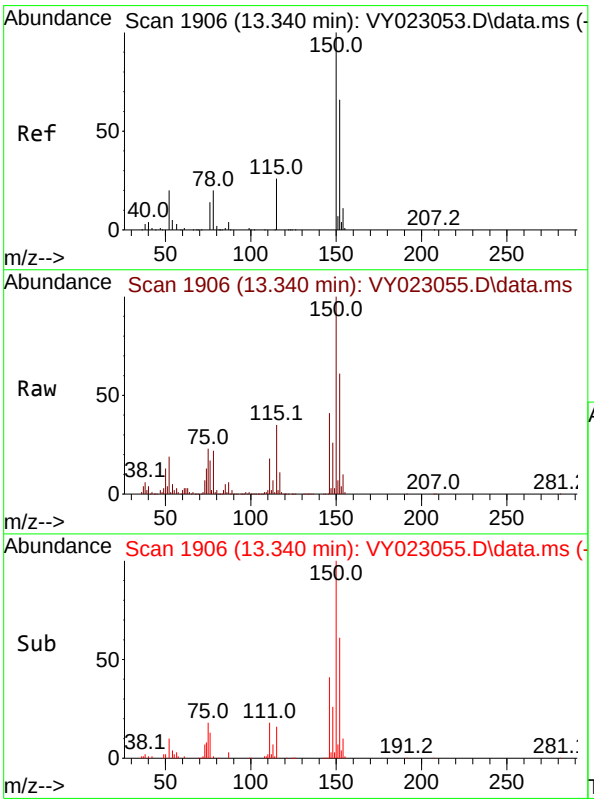

#71
Bromoform
Concen: 161.778 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:173 Resp: 523541

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.3 | 23.9 | 71.7 |
| 254 | 0.2 | 0.1 | 0.1# |

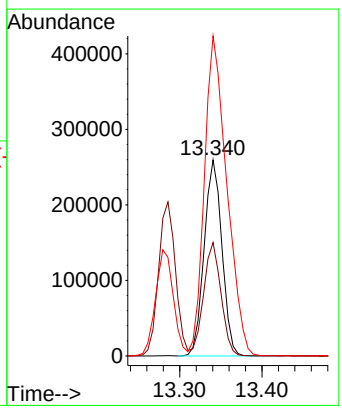


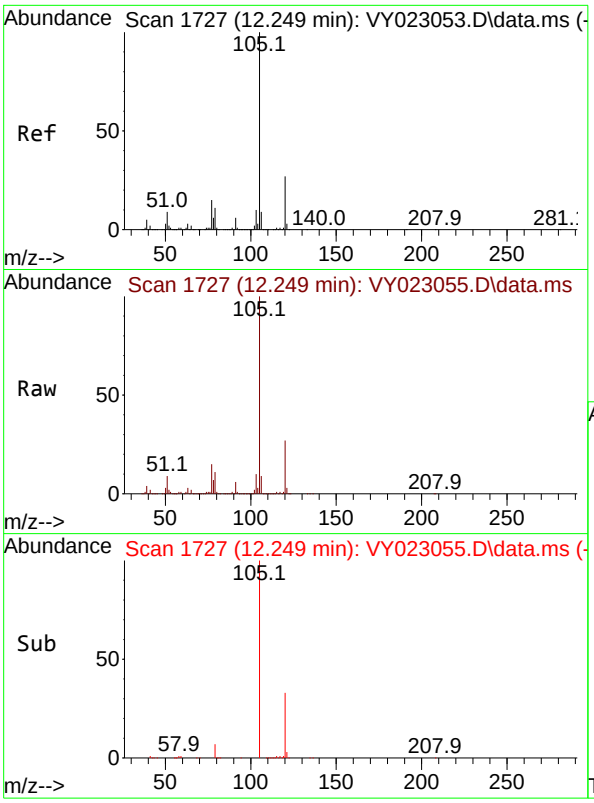




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:152 Resp: 389949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 56.7 | 28.2 | 84.6 |
| 150 | 205.8 | 0.0 | 348.0 |



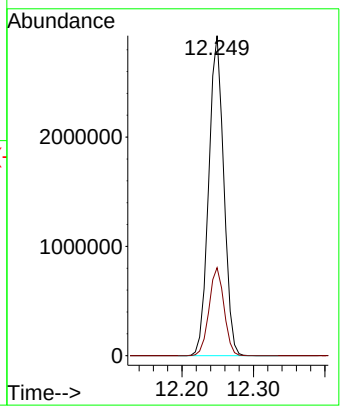


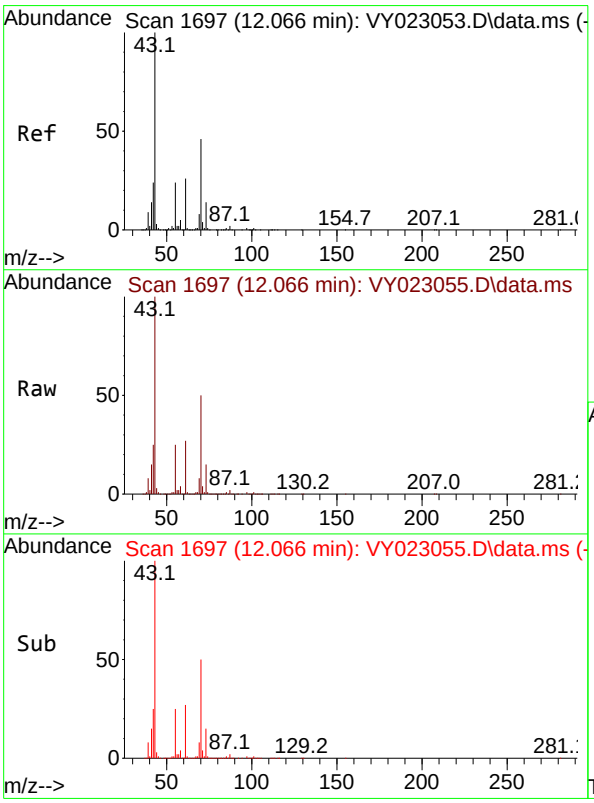

#73
Isopropylbenzene
Concen: 155.145 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:105 Resp: 4269945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.3 | 13.4 | 40.2 |

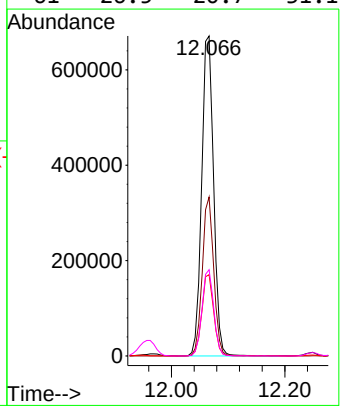


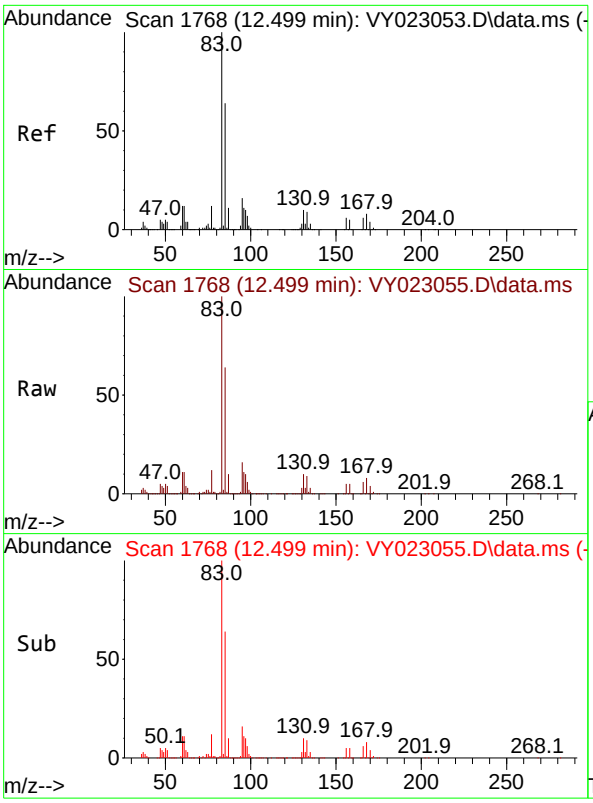




#74
N-amyl acetate
Concen: 168.265 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 43 Resp: 982090

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 47.8 | 37.5 | 56.3 |
| 55 | 25.3 | 20.7 | 31.1 |
| 61 | 26.5 | 20.7 | 31.1 |



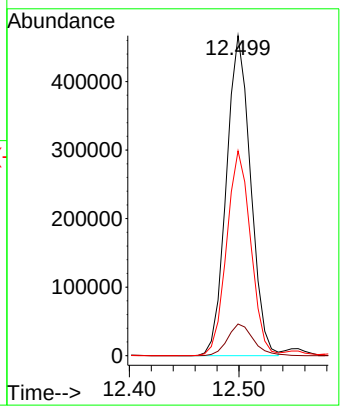


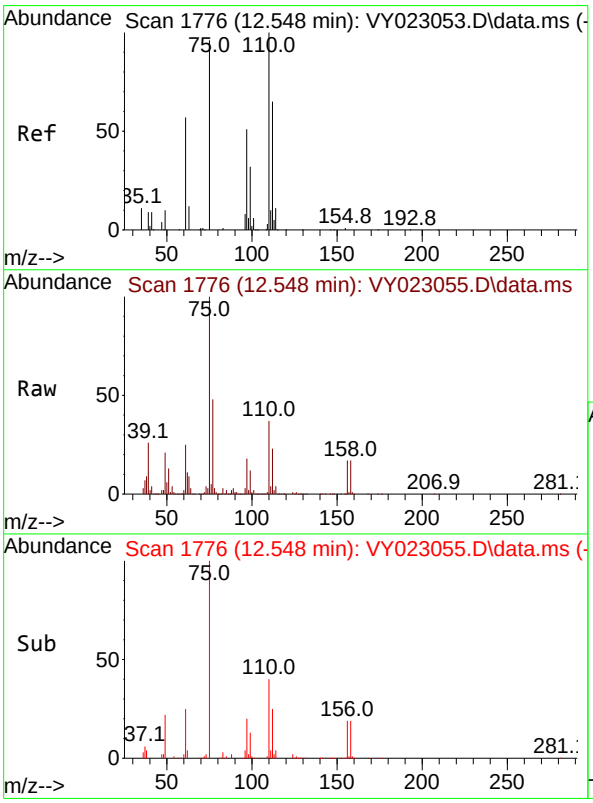

#75
1,1,2,2-Tetrachloroethane
Concen: 152.686 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 83 Resp: 717524

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.5 | 5.1 | 15.3 |
| 85 | 63.7 | 31.8 | 95.3 |

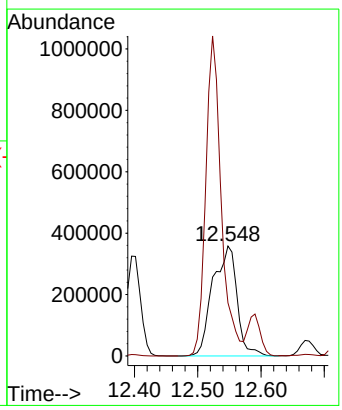


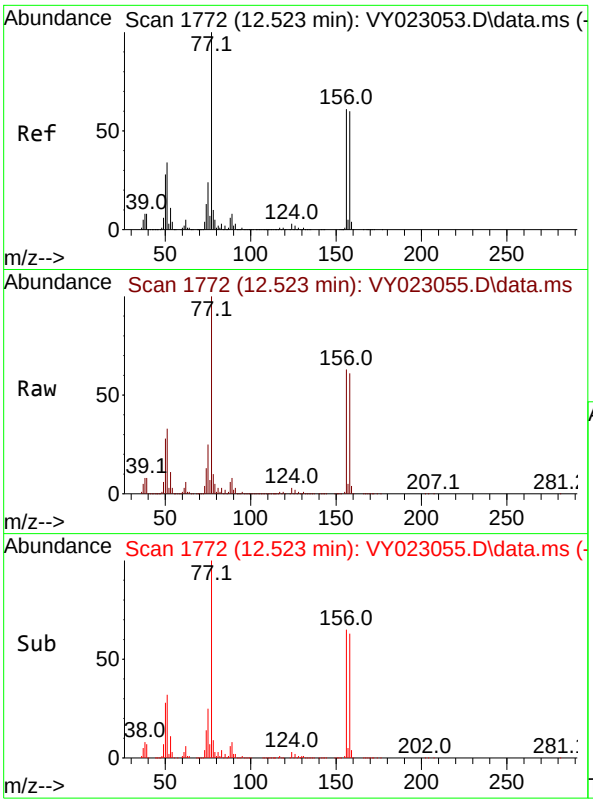




#76
1,2,3-Trichloropropane
Concen: 252.416 ug/l
RT: 12.548 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 75 Resp: 950569

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |



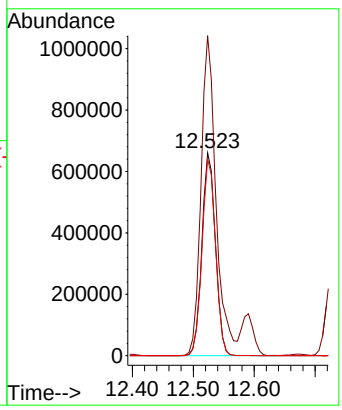


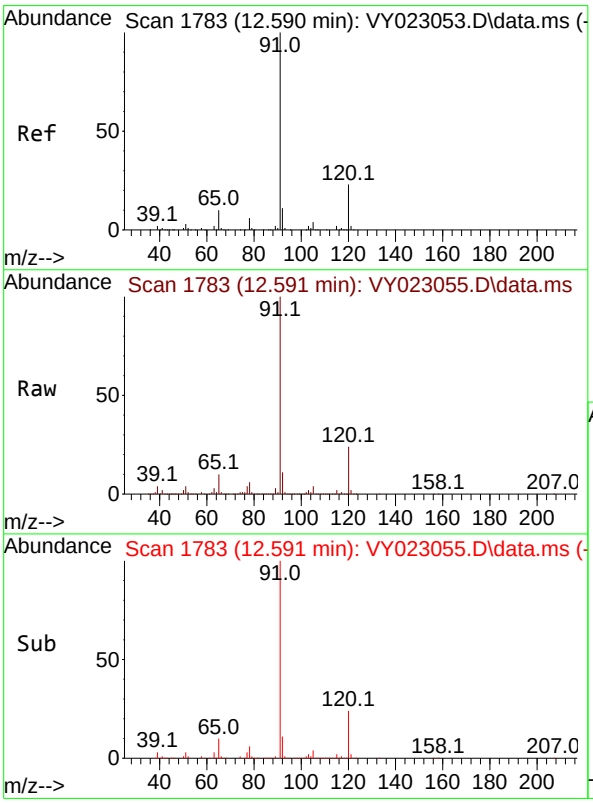

#77
Bromobenzene
Concen: 155.568 ug/l
RT: 12.523 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:156 Resp: 1021449

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 174.8 | 88.1 | 264.4 |
| 158 | 97.0 | 48.0 | 144.0 |

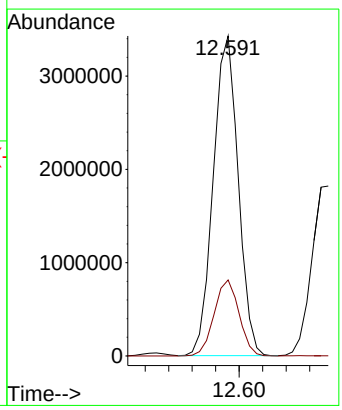


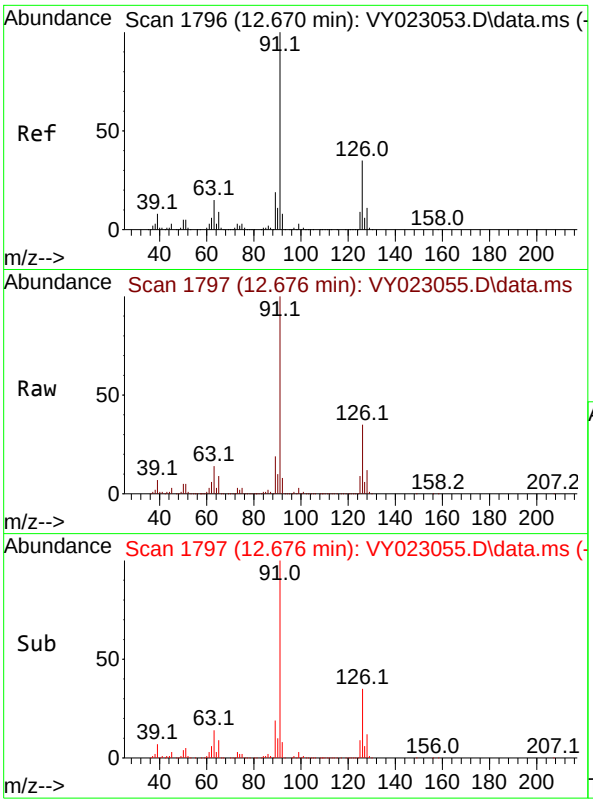




#78
n-propylbenzene
Concen: 154.058 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 91 Resp: 5048012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 23.7 | 11.5 | 34.5 |



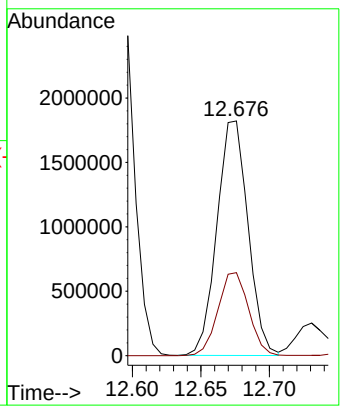


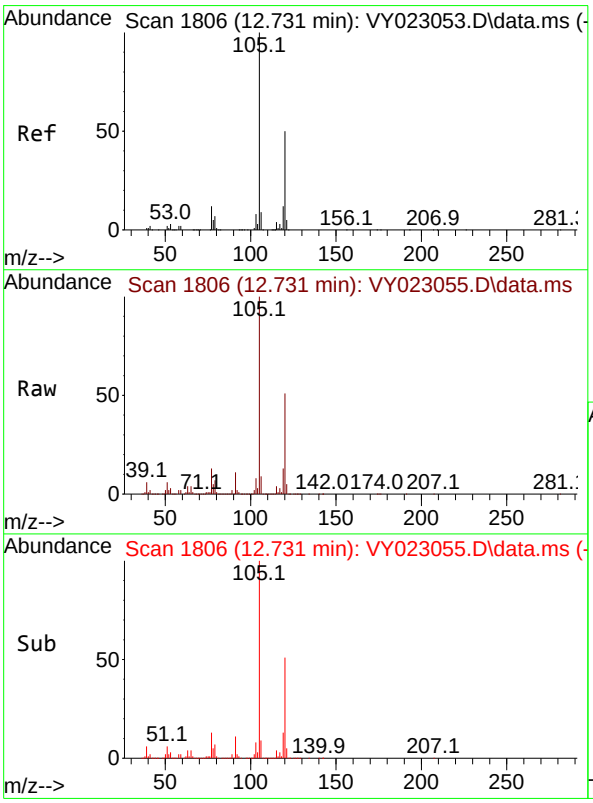

#79
2-Chlorotoluene
Concen: 153.331 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 91 Resp: 2878647

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.0 | 17.4 | 52.3 |

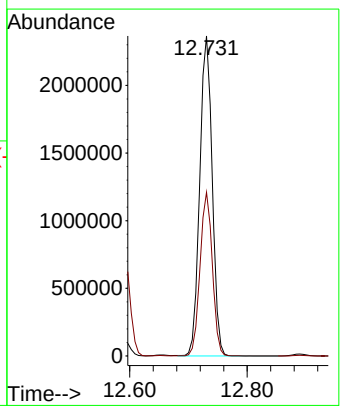


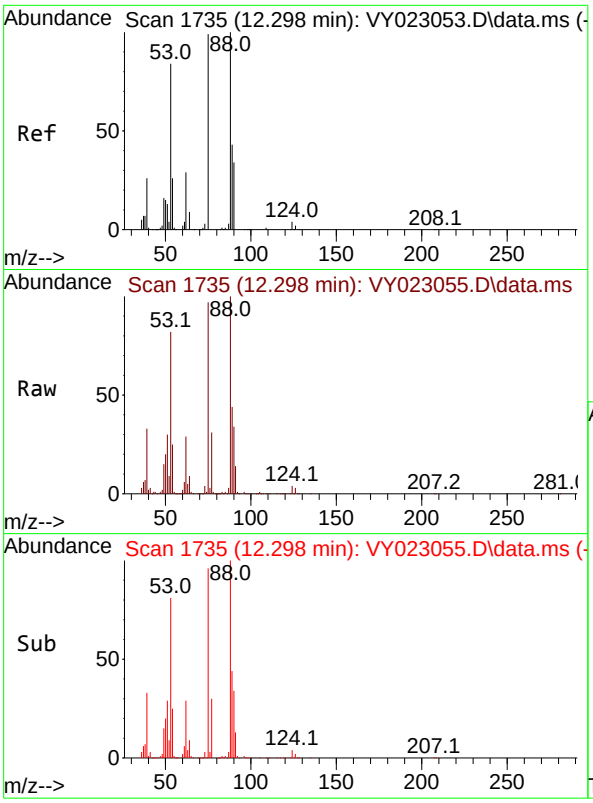




#80
1,3,5-Trimethylbenzene
Concen: 155.973 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:105 Resp: 3469329

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 50.4 | 24.8 | 74.4 |



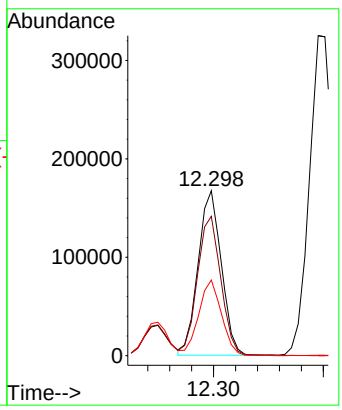


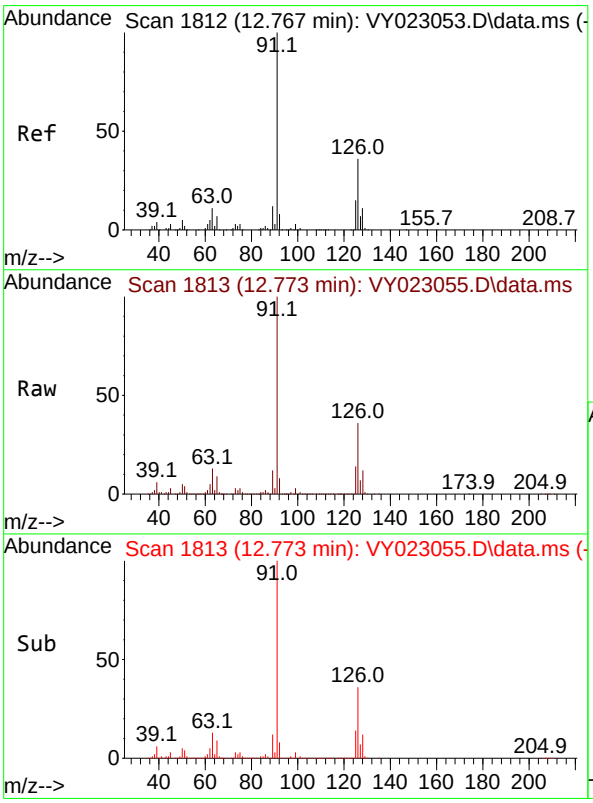

#81
trans-1,4-Dichloro-2-butene
Concen: 158.203 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 75 Resp: 245958

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 85.9 | 70.8 | 106.2 |
| 89 | 45.5 | 38.1 | 57.1 |

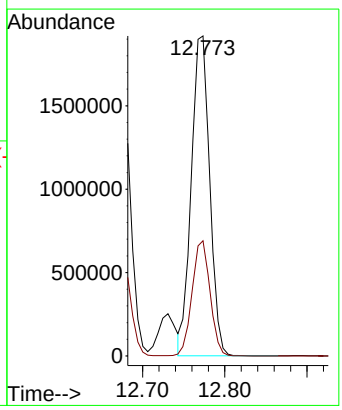


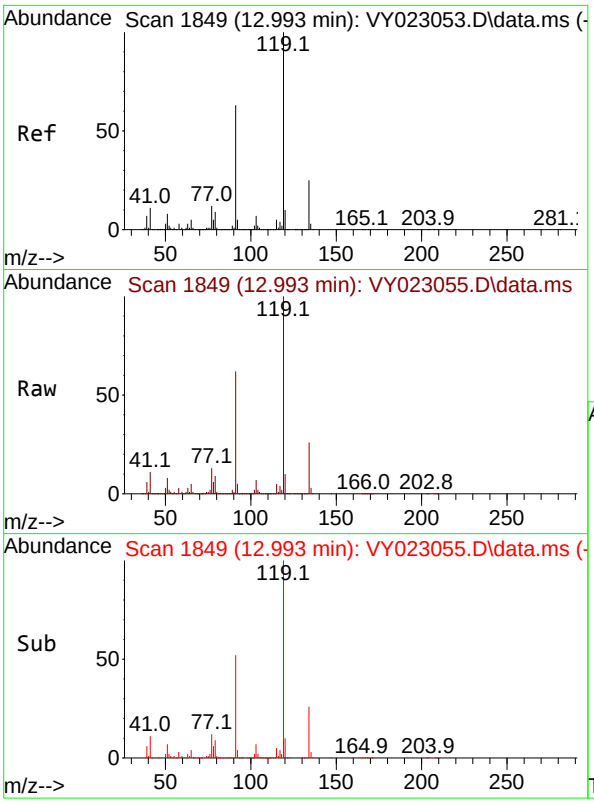




#82
4-Chlorotoluene
Concen: 153.063 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 91 Resp: 2981042

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.3 | 17.3 | 52.0 |



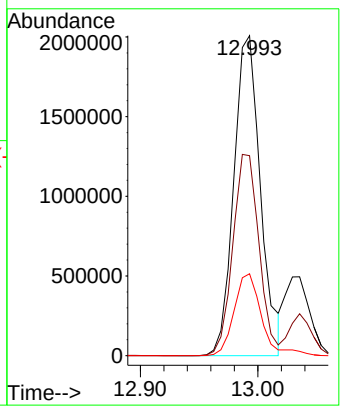


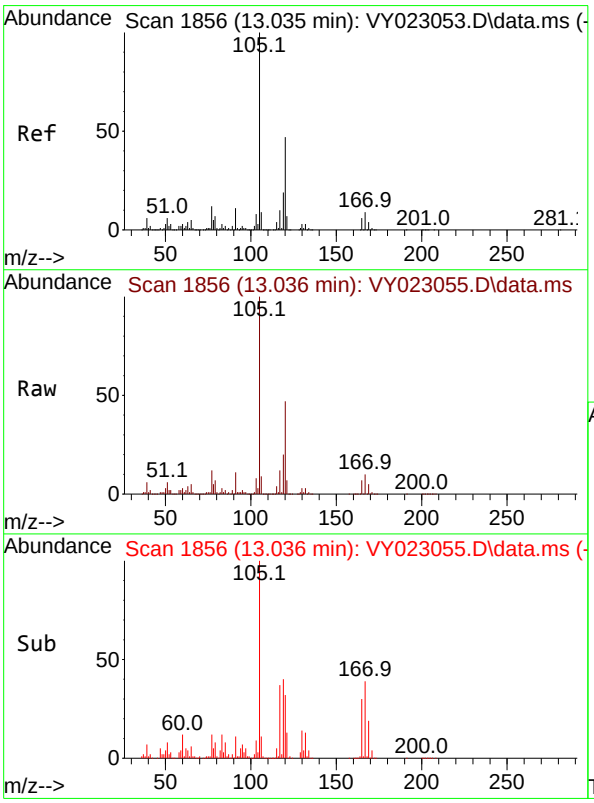

#83
tert-Butylbenzene
Concen: 157.371 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:119 Resp: 3161475

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 62.0 | 31.6 | 94.8 |
| 134 | 26.4 | 12.9 | 38.7 |

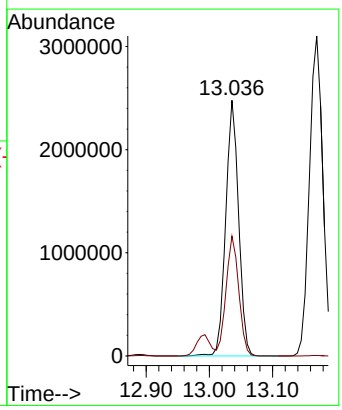


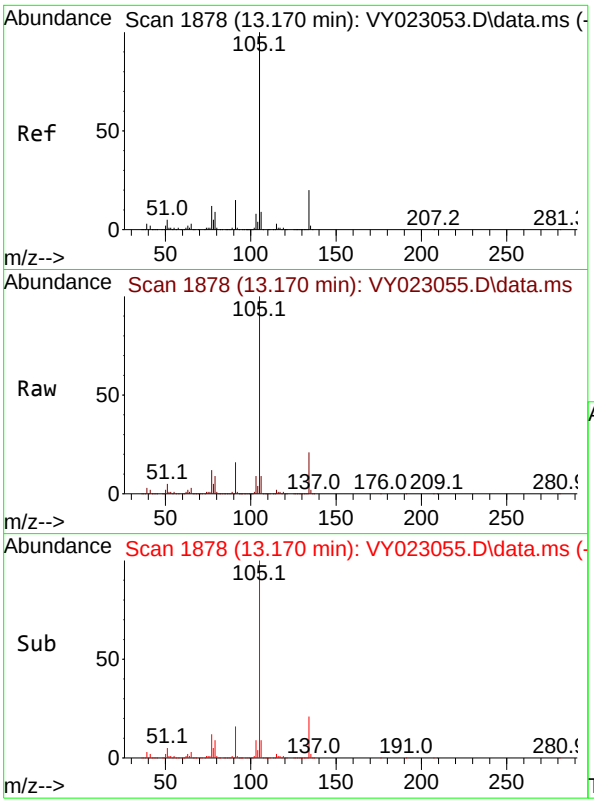




#84
1,2,4-Trimethylbenzene
Concen: 158.143 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:105 Resp: 3501626

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.2 | 23.0 | 69.0 |



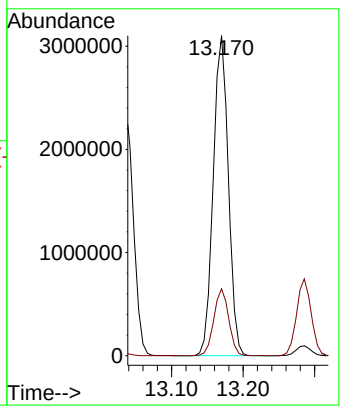


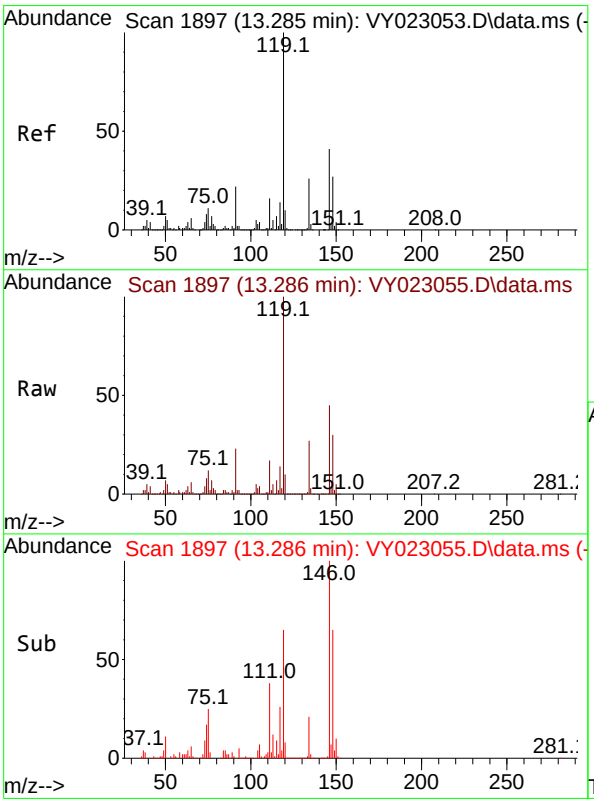

#85
sec-Butylbenzene
Concen: 153.897 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:105 Resp: 4541629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.6 | 10.2 | 30.4 |

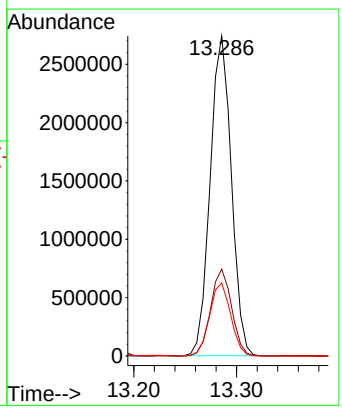


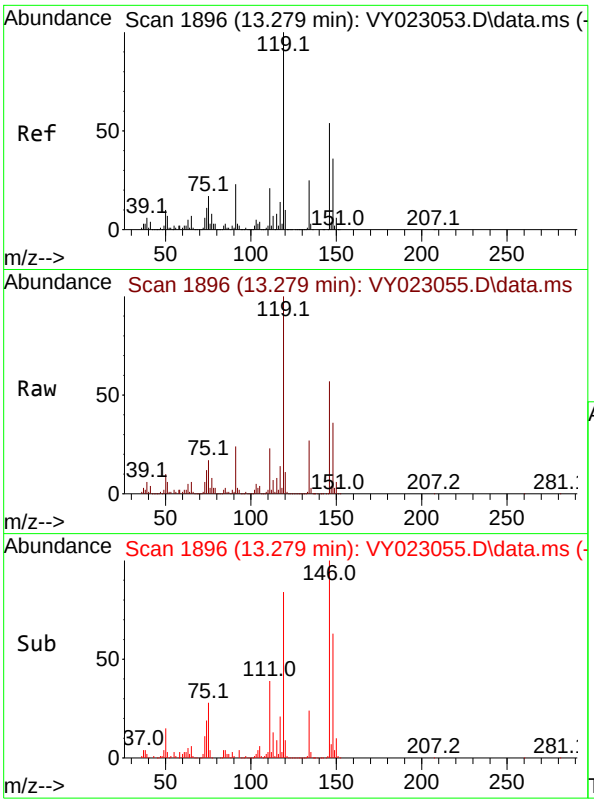




#86
p-Isopropyltoluene
Concen: 159.987 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:119 Resp: 3918969

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.9 | 13.2 | 39.6 |
| 91 | 22.6 | 11.3 | 33.8 |



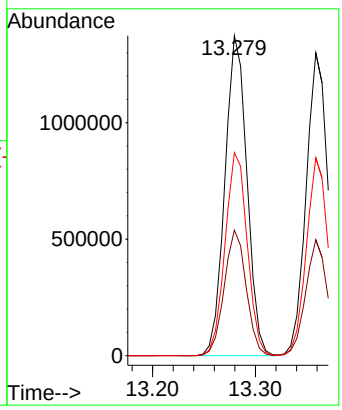


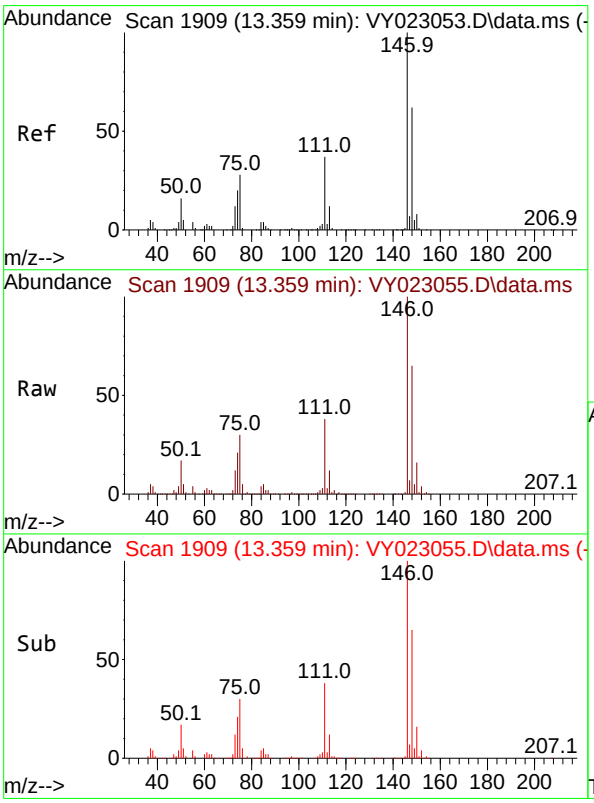

#87
1,3-Dichlorobenzene
Concen: 158.251 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:146 Resp: 2049060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.9 | 19.6 | 58.7 |
| 148 | 63.8 | 32.5 | 97.5 |

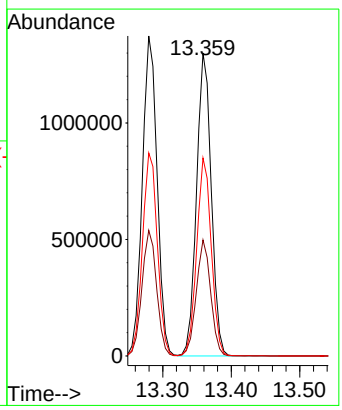


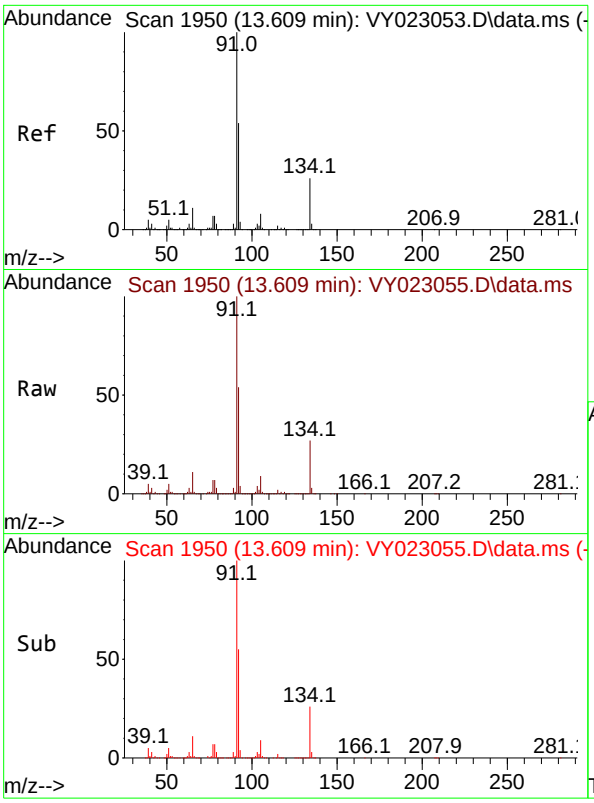




#88
1,4-Dichlorobenzene
Concen: 151.172 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:146 Resp: 1941716

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 37.5 | 19.1 | 57.1 |
| 148 | 64.7 | 31.6 | 94.7 |



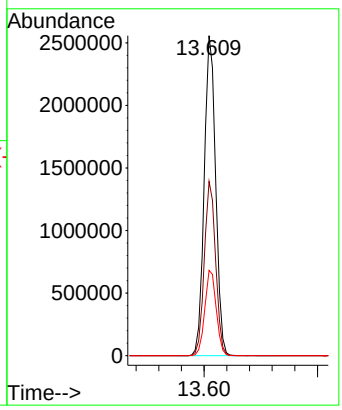


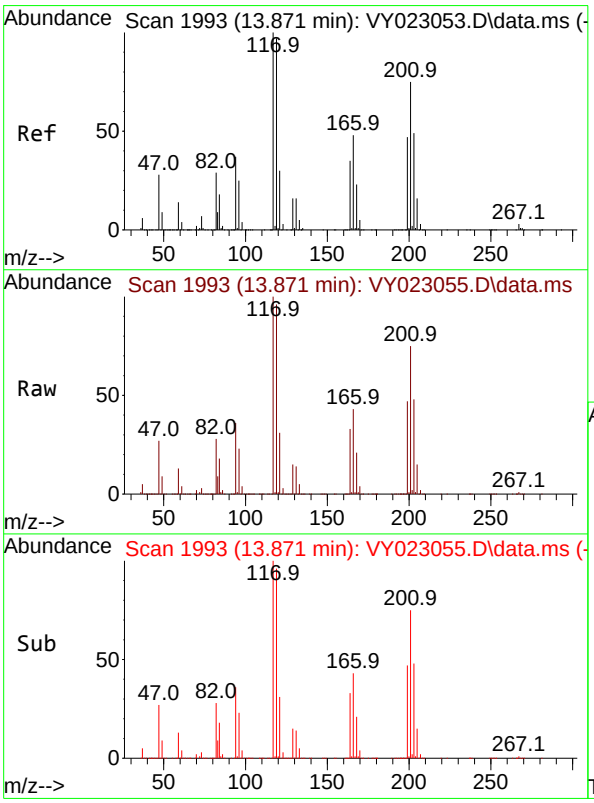

#89
n-Butylbenzene
Concen: 159.048 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 91 Resp: 3578272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.9 | 26.9 | 80.7 |
| 134 | 26.7 | 13.2 | 39.5 |

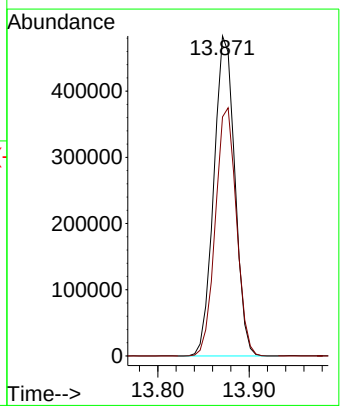


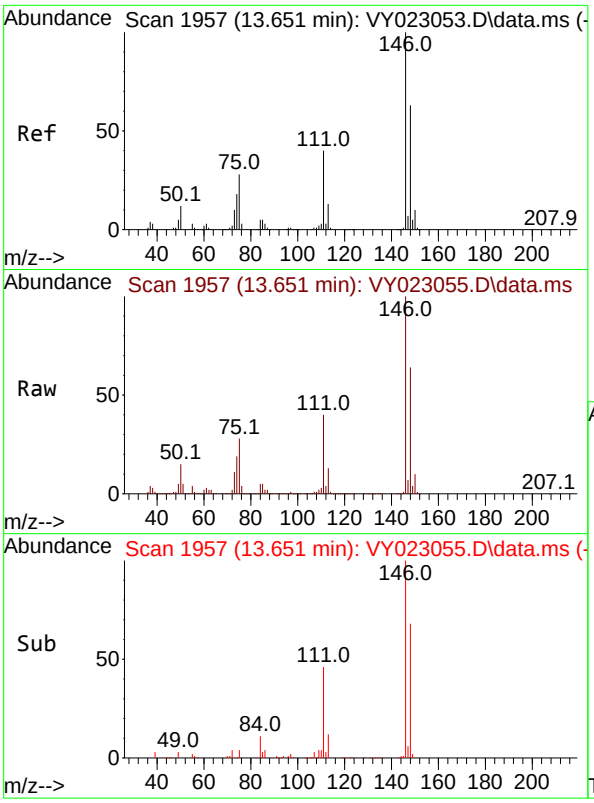




#90
Hexachloroethane
Concen: 154.073 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:117 Resp: 772603

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 77.6 | 38.4 | 115.1 |



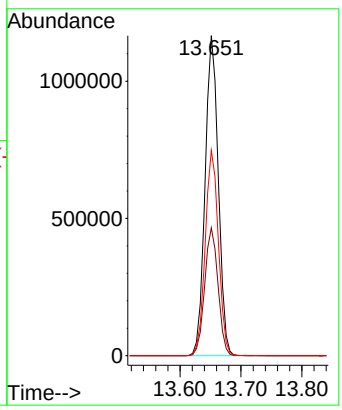


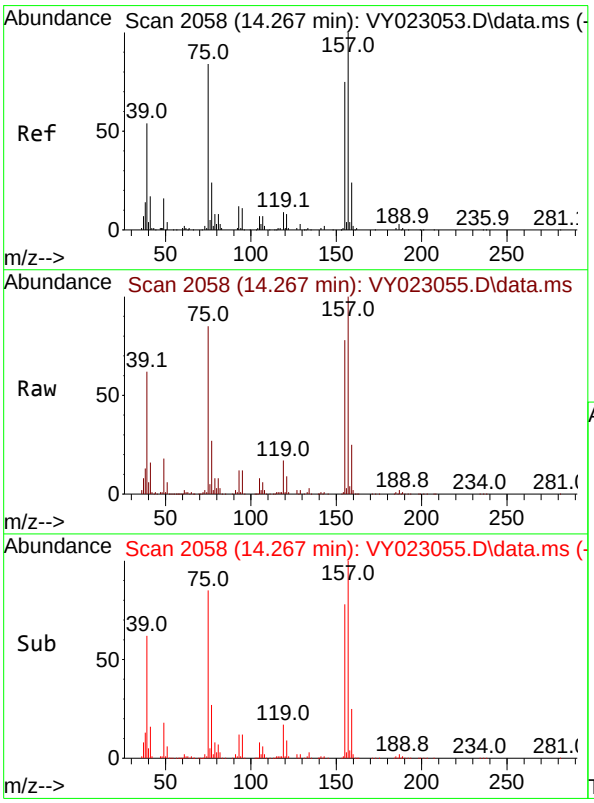

#91
1,2-Dichlorobenzene
Concen: 154.469 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:146 Resp: 1754100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.4 | 20.3 | 60.8 |
| 148 | 64.2 | 32.2 | 96.6 |

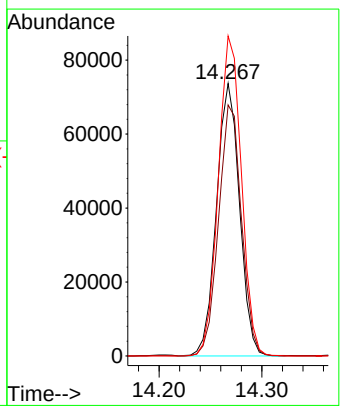


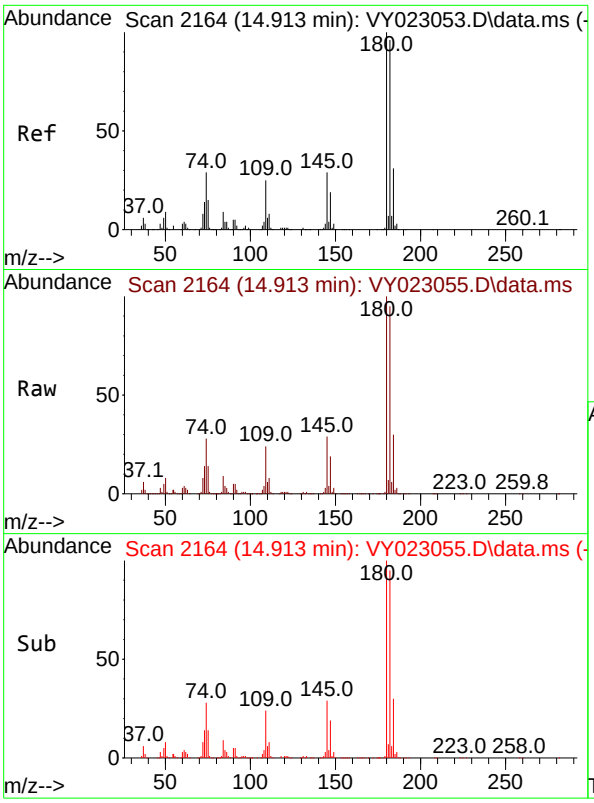




#92
1,2-Dibromo-3-Chloropropane
Concen: 156.498 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion: 75 Resp: 114505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 91.8 | 43.9 | 131.6 |
| 157 | 117.9 | 57.2 | 171.6 |



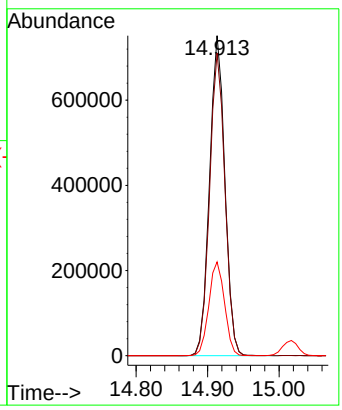


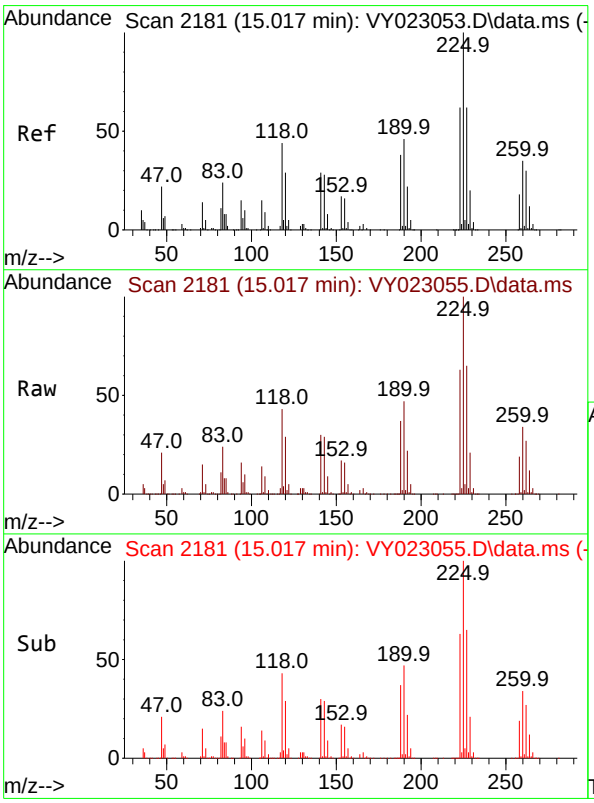

#93
1,2,4-Trichlorobenzene
Concen: 166.397 ug/l
RT: 14.913 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:180 Resp: 1117401

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.0 | 46.8 | 140.4 |
| 145 | 30.0 | 14.4 | 43.4 |

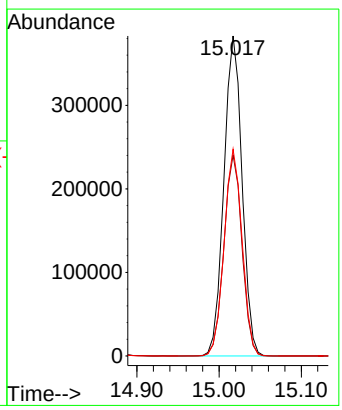


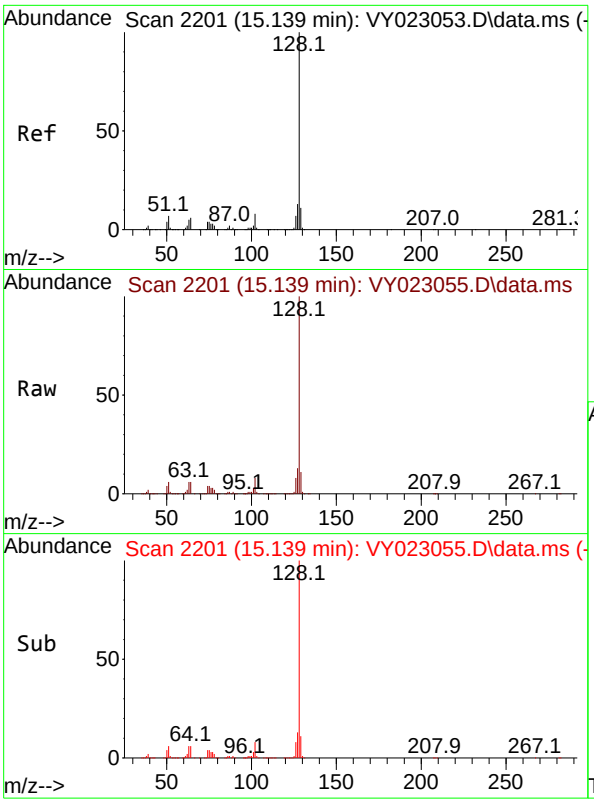




#94
Hexachlorobutadiene
Concen: 149.352 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:225 Resp: 589351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.4 | 31.3 | 93.8 |
| 227 | 63.8 | 31.5 | 94.5 |



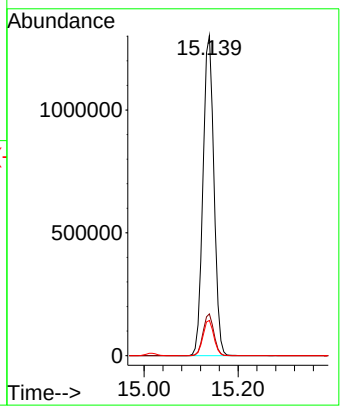


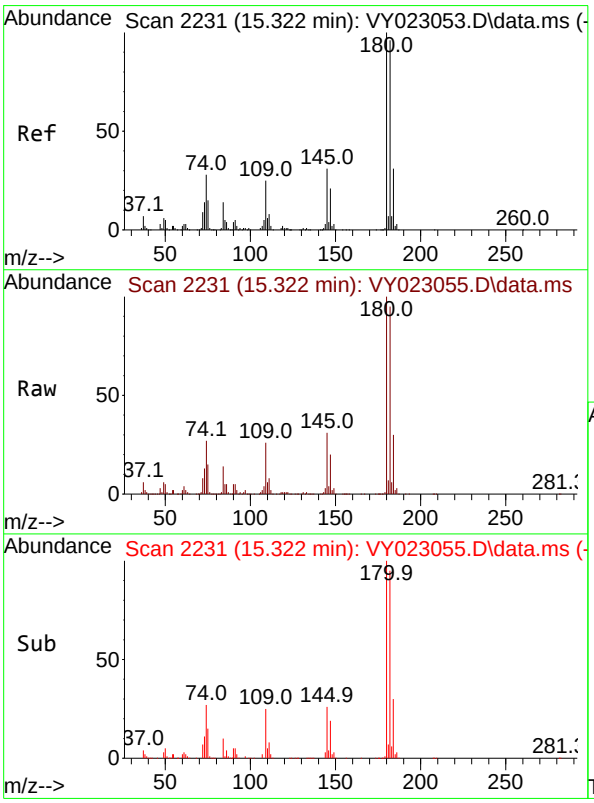

#95
Naphthalene
Concen: 182.954 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:128 Resp: 2094983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.9 | 10.4 | 15.6 |
| 129 | 11.0 | 9.0 | 13.4 |

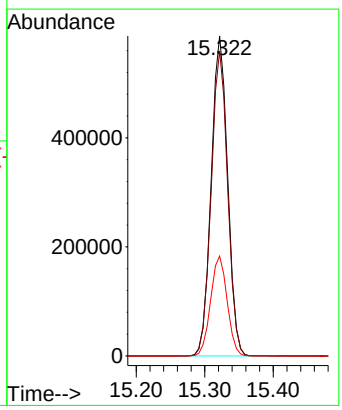



#96
1,2,3-Trichlorobenzene
Concen: 168.557 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023055.D
Acq: 12 Aug 2025 16:47

Tgt Ion:180 Resp: 975366

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.2 | 47.9 | 143.7 |
| 145 | 31.4 | 15.9 | 47.7 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023057.D
Acq On : 12 Aug 2025 17:53
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Quant Time: Aug 13 02:14:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 528657 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.610 | 114 | 849851 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 756555 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 376990 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.055 | 65 | 252116 | 50.038 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 100.080% | | | |
| 35) Dibromofluoromethane | 7.628 | 113 | 255171 | 50.179 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 100.360% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 979510 | 49.306 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 98.620% | | | |
| 62) 4-Bromofluorobenzene | 12.402 | 95 | 329022 | 51.500 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 103.000% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 179421 | 41.579 | ug/l | 99 |
| 3) Chloromethane | 2.068 | 50 | 340600 | 48.732 | ug/l | 100 |
| 4) Vinyl Chloride | 2.202 | 62 | 416413 | 48.198 | ug/l | 99 |
| 5) Bromomethane | 2.592 | 94 | 303147 | 46.983 | ug/l | 98 |
| 6) Chloroethane | 2.733 | 64 | 281008 | 48.923 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.050 | 101 | 493782 | 47.003 | ug/l | 100 |
| 8) Diethyl Ether | 3.452 | 74 | 132818 | 47.787 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 3.812 | 101 | 247351 | 47.725 | ug/l | 99 |
| 10) Methyl Iodide | 4.001 | 142 | 287126 | 51.340 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.860 | 59 | 84906 | 245.940 | ug/l | 98 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 242931 | 47.686 | ug/l | 95 |
| 13) Acrolein | 3.647 | 56 | 112246 | 222.008 | ug/l | 98 |
| 14) Allyl chloride | 4.379 | 41 | 354691 | 47.317 | ug/l | 99 |
| 15) Acrylonitrile | 5.055 | 53 | 274329 | 242.779 | ug/l | 99 |
| 16) Acetone | 3.867 | 43 | 229985 | 210.695 | ug/l | 96 |
| 17) Carbon Disulfide | 4.104 | 76 | 779852 | 46.948 | ug/l | 99 |
| 18) Methyl Acetate | 4.385 | 43 | 168821 | 51.972 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 658713 | 49.899 | ug/l | 100 |
| 20) Methylene Chloride | 4.610 | 84 | 283386 | 49.960 | ug/l | 98 |
| 21) trans-1,2-Dichloroethene | 5.110 | 96 | 279182 | 48.765 | ug/l | 98 |
| 22) Diisopropyl ether | 6.019 | 45 | 814622 | 50.011 | ug/l | 97 |
| 23) Vinyl Acetate | 5.958 | 43 | 2182924 | 242.360 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 483509 | 48.551 | ug/l | 100 |
| 25) 2-Butanone | 6.890 | 43 | 341490 | 230.028 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 390777 | 45.475 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.884 | 96 | 322451 | 48.720 | ug/l | 99 |
| 28) Bromochloromethane | 7.238 | 49 | 198640 | 50.275 | ug/l | 100 |
| 29) Tetrahydrofuran | 7.262 | 42 | 227680 | 247.420 | ug/l | 100 |
| 30) Chloroform | 7.421 | 83 | 497627 | 48.450 | ug/l | 97 |
| 31) Cyclohexane | 7.695 | 56 | 436638 | 46.526 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.610 | 97 | 445943 | 48.933 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 7.829 | 75 | 364210 | 48.193 | ug/l | 99 |
| 37) Ethyl Acetate | 6.982 | 43 | 157530 | 49.621 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 394245 | 48.030 | ug/l | 99 |
| 39) Methylcyclohexane | 9.103 | 83 | 493867 | 49.625 | ug/l | 98 |
| 40) Benzene | 8.073 | 78 | 1128023 | 48.428 | ug/l | 100 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023057.D
Acq On : 12 Aug 2025 17:53
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Quant Time: Aug 13 02:14:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.220 | 41 | 88437 | 48.269 | ug/l | | 99 |
| 42) 1,2-Dichloroethane | 8.152 | 62 | 291766 | 48.162 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.195 | 43 | 315013 | 49.094 | ug/l | | 98 |
| 44) Trichloroethene | 8.860 | 130 | 287745 | 47.803 | ug/l | | 95 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 262408 | 48.961 | ug/l | | 98 |
| 46) Dibromomethane | 9.225 | 93 | 149745 | 48.679 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.420 | 83 | 391522 | 49.463 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.219 | 41 | 155118 | 50.520 | ug/l | | 99 |
| 49) 1,4-Dioxane | 9.225 | 88 | 35050 | 971.749 | ug/l | | 98 |
| 51) 4-Methyl-2-Pentanone | 9.993 | 43 | 823949 | 248.943 | ug/l | | 99 |
| 52) Toluene | 10.164 | 92 | 724356 | 48.963 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 356228 | 49.699 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 415017 | 48.965 | ug/l | | 97 |
| 55) 1,1,2-Trichloroethane | 10.567 | 97 | 201146 | 48.867 | ug/l | | 98 |
| 56) Ethyl methacrylate | 10.432 | 69 | 267458 | 50.779 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 343649 | 49.228 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 678865 | 273.240 | ug/l | | 100 |
| 59) 2-Hexanone | 10.756 | 43 | 551743 | 244.812 | ug/l | | 99 |
| 60) Dibromochloromethane | 10.908 | 129 | 270536 | 49.810 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.012 | 107 | 190334 | 49.197 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.640 | 164 | 307456 | 45.512 | ug/l | | 98 |
| 65) Chlorobenzene | 11.438 | 112 | 787799 | 48.275 | ug/l | | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 11.512 | 131 | 270360 | 48.815 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.512 | 91 | 1380648 | 49.163 | ug/l | | 100 |
| 68) m/p-Xylenes | 11.621 | 106 | 1080541 | 98.515 | ug/l | | 99 |
| 69) o-Xylene | 11.950 | 106 | 509991 | 49.645 | ug/l | | 99 |
| 70) Styrene | 11.963 | 104 | 852310 | 50.733 | ug/l | | 99 |
| 71) Bromoform | 12.127 | 173 | 157073 | 48.525 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.249 | 105 | 1327070 | 49.876 | ug/l | | 100 |
| 74) N-amyl acetate | 12.066 | 43 | 285118 | 50.529 | ug/l | | 100 |
| 75) 1,1,2,2-Tetrachloroethane | 12.499 | 83 | 224206 | 49.350 | ug/l | | 98 |
| 76) 1,2,3-Trichloropropane | 12.548 | 75 | 294203 | 80.862 | ug/l | # | 100 |
| 77) Bromobenzene | 12.524 | 156 | 311065 | 49.004 | ug/l | | 99 |
| 78) n-propylbenzene | 12.591 | 91 | 1610911 | 50.853 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 905657 | 49.898 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.731 | 105 | 1094902 | 50.916 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.298 | 75 | 74263 | 49.409 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 12.774 | 91 | 932114 | 49.505 | ug/l | | 100 |
| 83) tert-Butylbenzene | 12.993 | 119 | 979692 | 50.443 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.036 | 105 | 1092616 | 51.042 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.170 | 105 | 1459437 | 51.154 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.286 | 119 | 1222900 | 51.639 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.280 | 146 | 621371 | 49.639 | ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 13.359 | 146 | 602429 | 48.514 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.609 | 91 | 1122189 | 51.594 | ug/l | | 100 |
| 90) Hexachloroethane | 13.871 | 117 | 245386 | 50.617 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 13.651 | 146 | 540506 | 49.234 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.267 | 75 | 35428 | 50.085 | ug/l | | 98 |
| 93) 1,2,4-Trichlorobenzene | 14.913 | 180 | 320472 | 49.363 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.017 | 225 | 184430 | 48.344 | ug/l | | 99 |
| 95) Naphthalene | 15.139 | 128 | 571480 | 51.623 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.322 | 180 | 272638 | 48.735 | ug/l | | 100 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023057.D
Acq On : 12 Aug 2025 17:53
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Quant Time: Aug 13 02:14:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

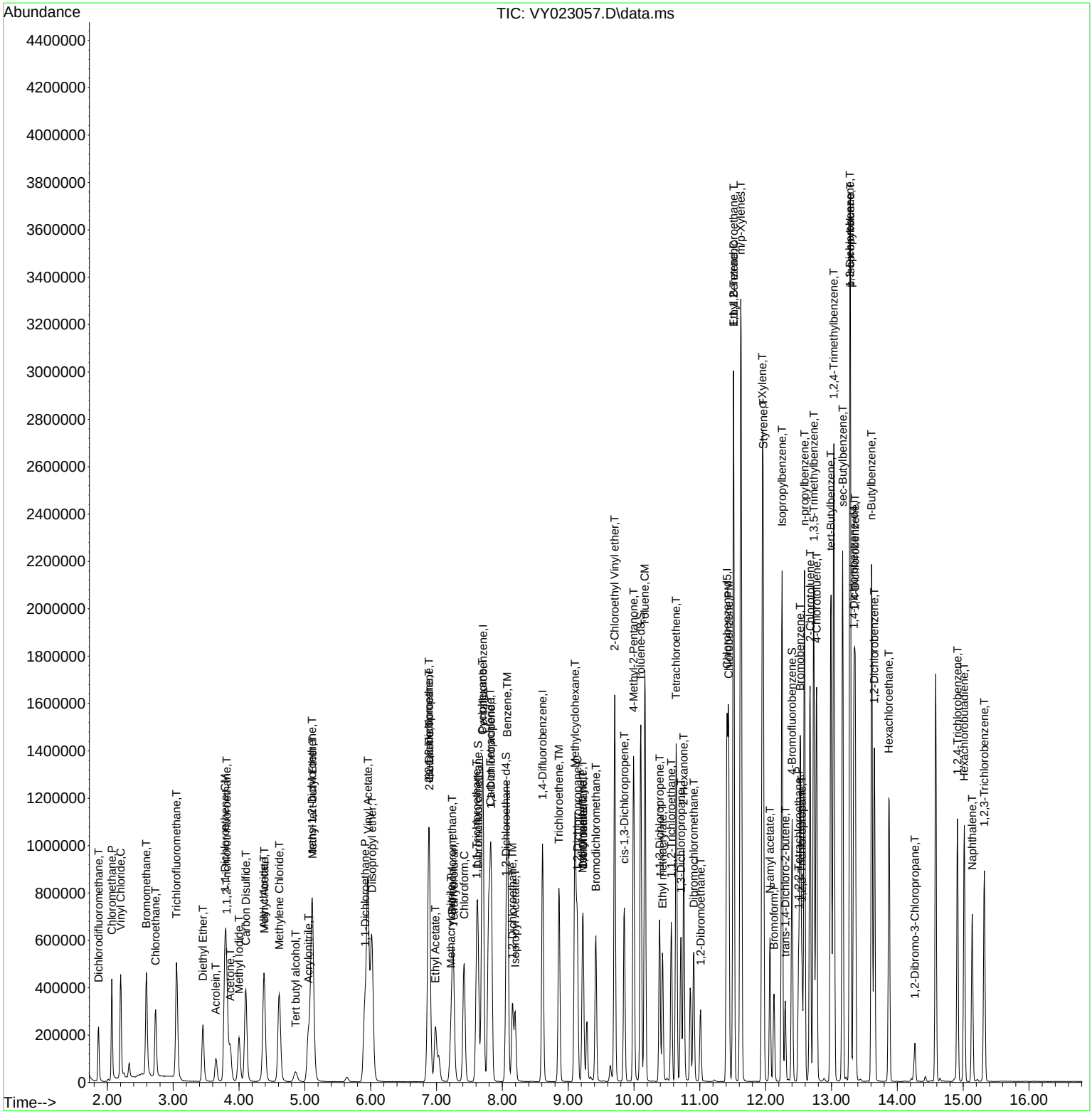
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

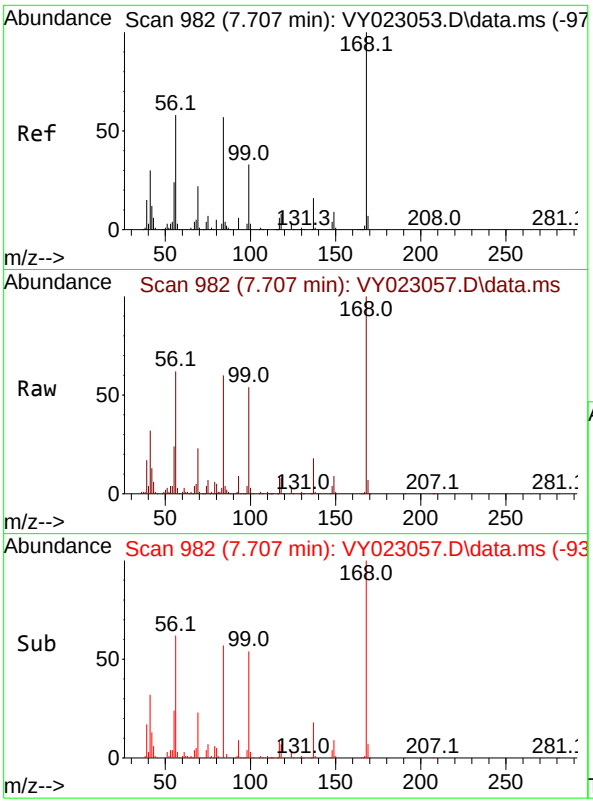
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081225\
Data File : VY023057.D
Acq On : 12 Aug 2025 17:53
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Quant Time: Aug 13 02:14:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



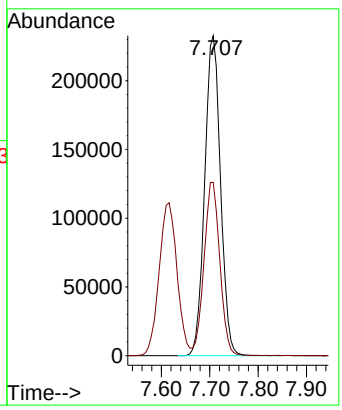


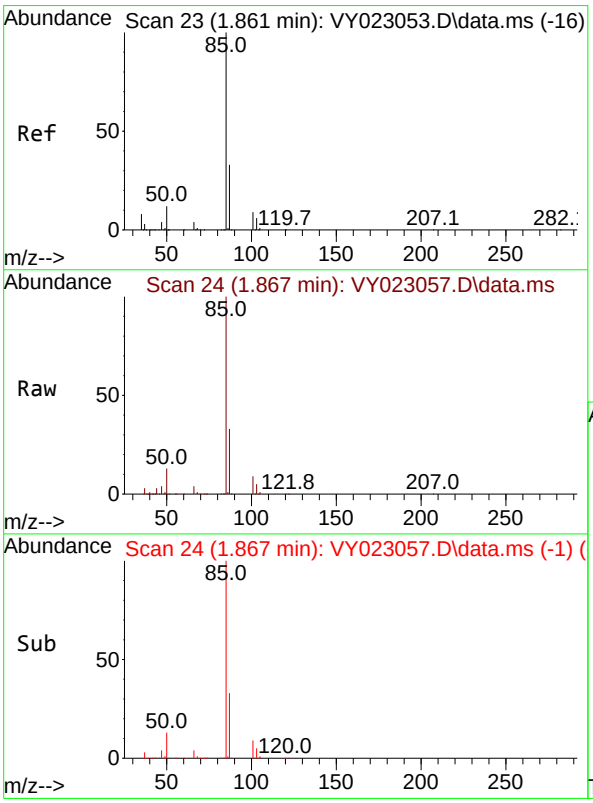

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion:168 Resp: 528657

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 54.1 | 42.8 | 64.2 |

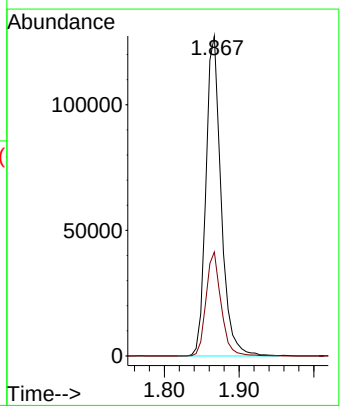


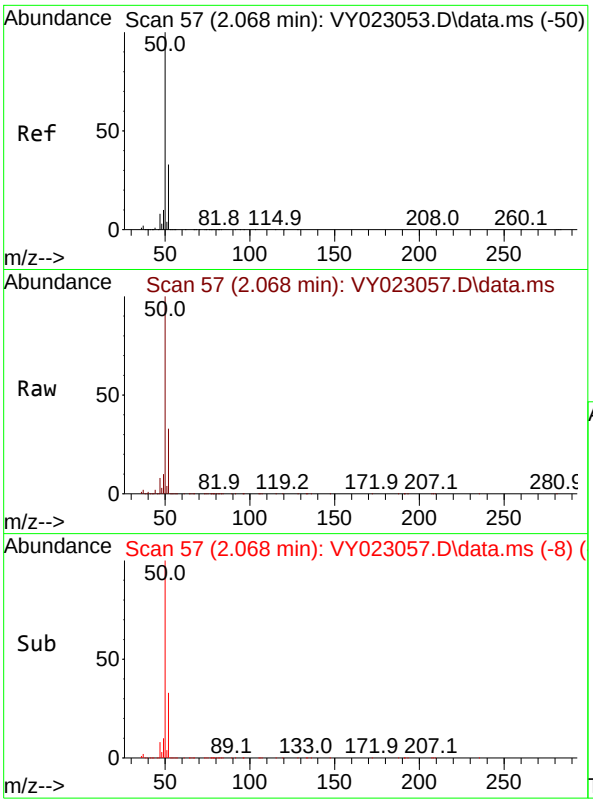




#2
Dichlorodifluoromethane
Concen: 41.579 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 85 Resp: 179421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.5 | 16.6 | 49.8 |



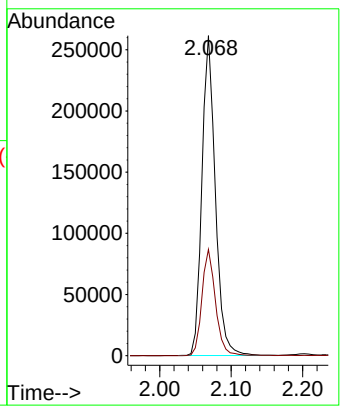


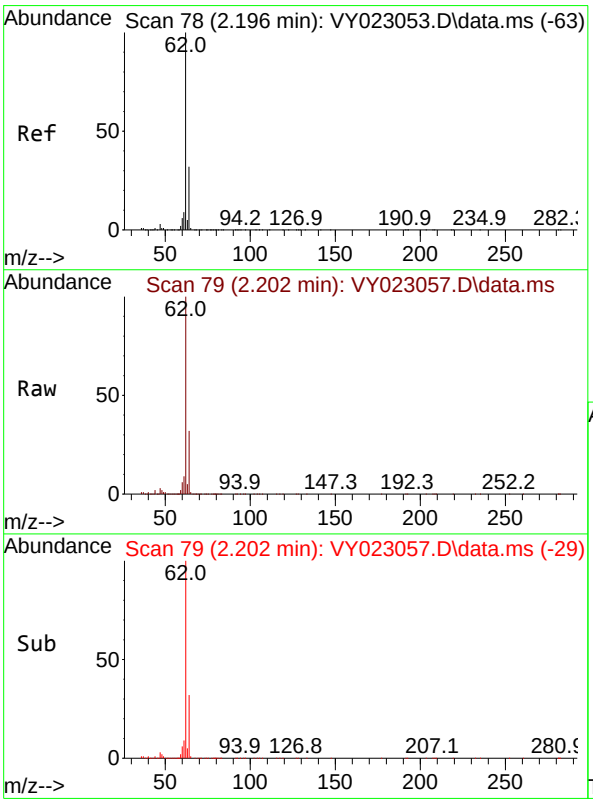

#3
Chloromethane
Concen: 48.732 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion: 50 Resp: 340600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.2 | 26.7 | 40.1 |

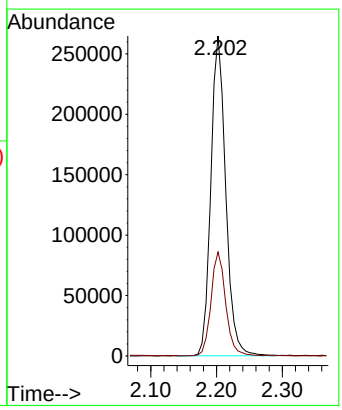


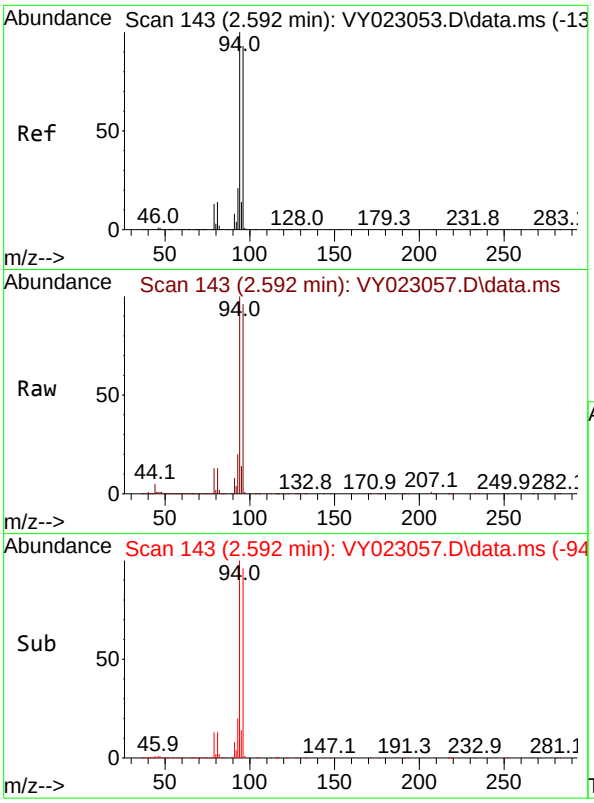




#4
Vinyl Chloride
Concen: 48.198 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 62 Resp: 416413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.4 | 25.4 | 38.0 |



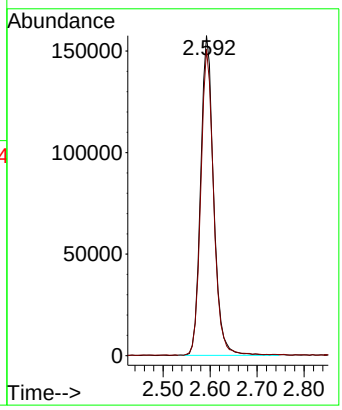


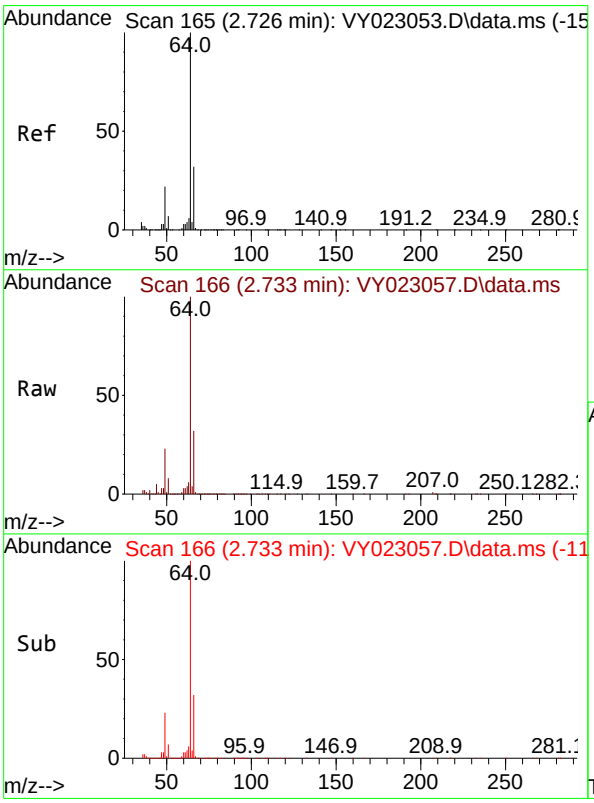

#5
Bromomethane
Concen: 46.983 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion: 94 Resp: 303147

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 95.7 | 74.6 | 112.0 |

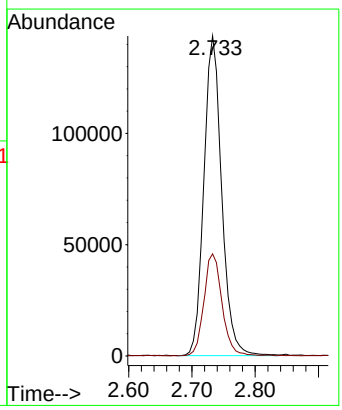


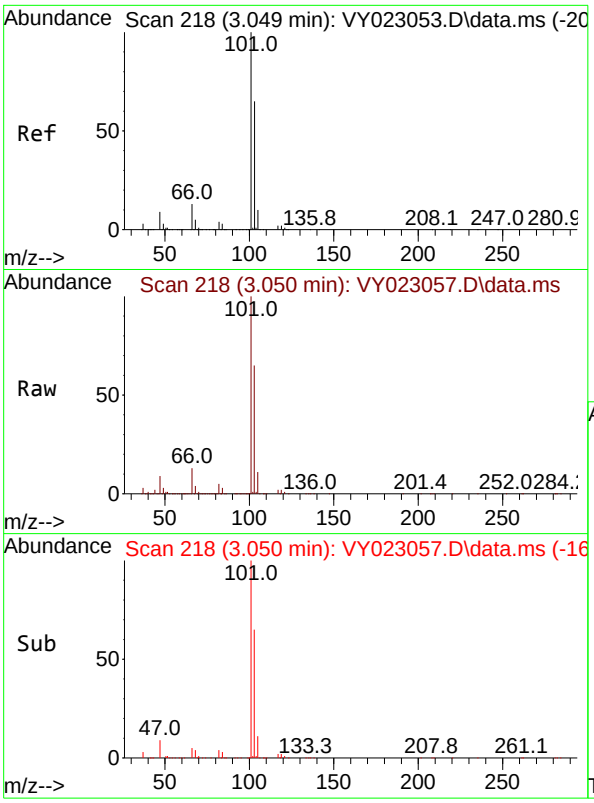




#6
Chloroethane
Concen: 48.923 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 64 Resp: 281008

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.9 | 25.8 | 38.6 |



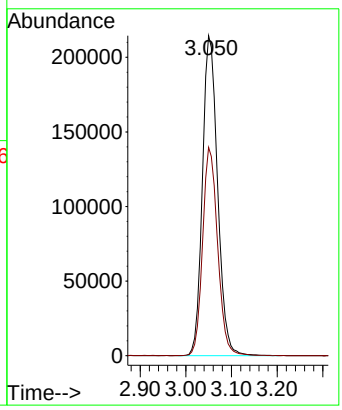


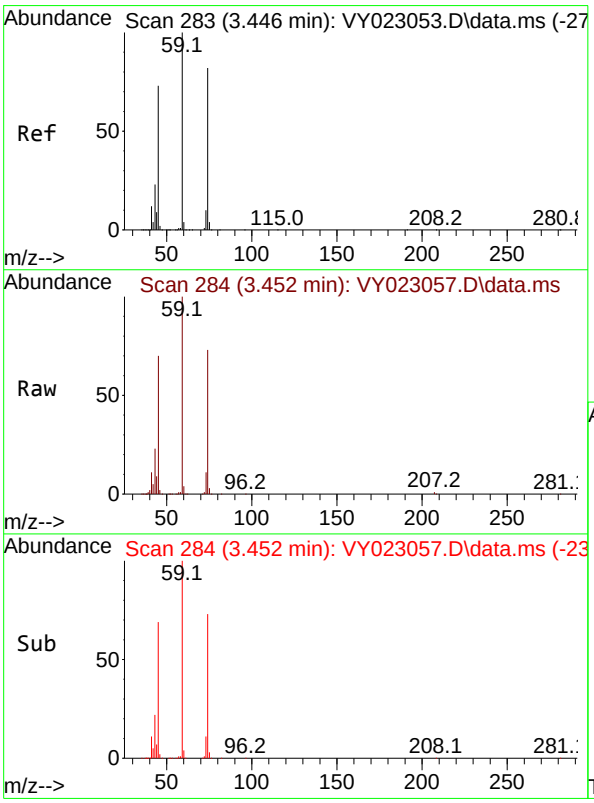

#7
Trichlorofluoromethane
Concen: 47.003 ug/l
RT: 3.050 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion:101 Resp: 493782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.1 | 51.9 | 77.9 |

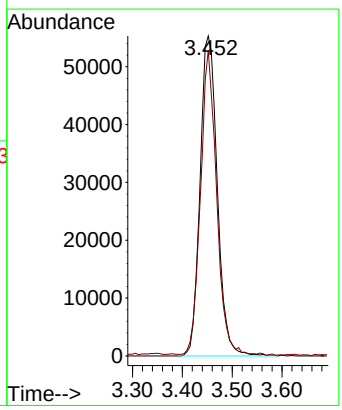


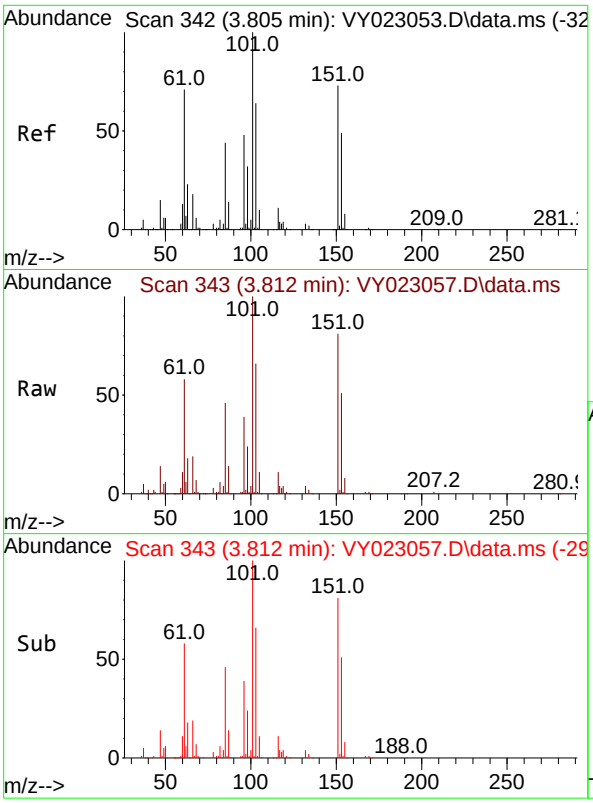




#8
Diethyl Ether
Concen: 47.787 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 74 Resp: 132818

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 88.1 | 44.4 | 133.2 |



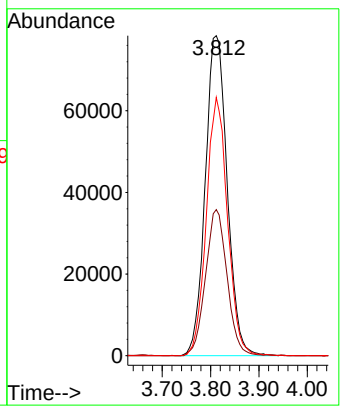


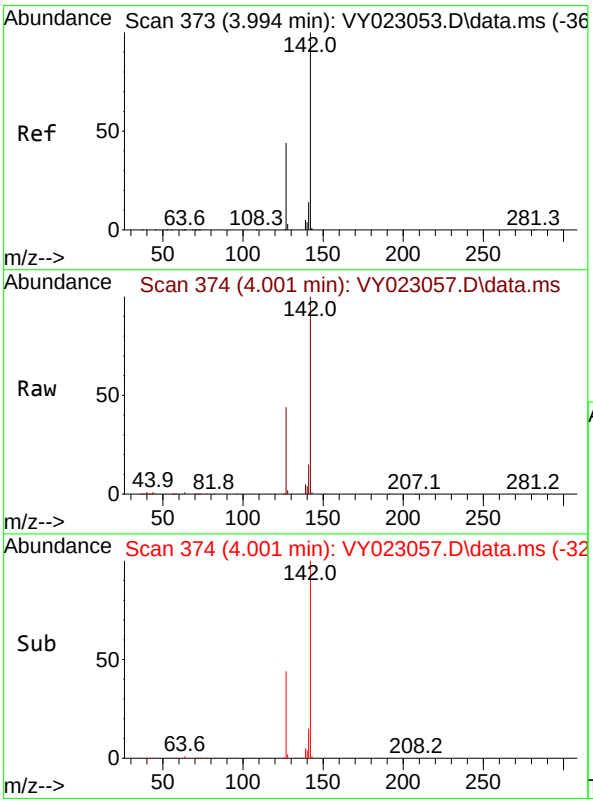

#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.725 ug/l
RT: 3.812 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion:101 Resp: 247351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 44.9 | 36.3 | 54.5 |
| 151 | 77.9 | 61.5 | 92.3 |

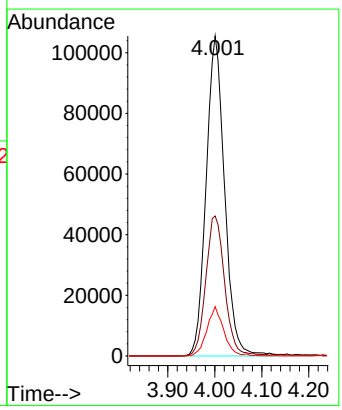


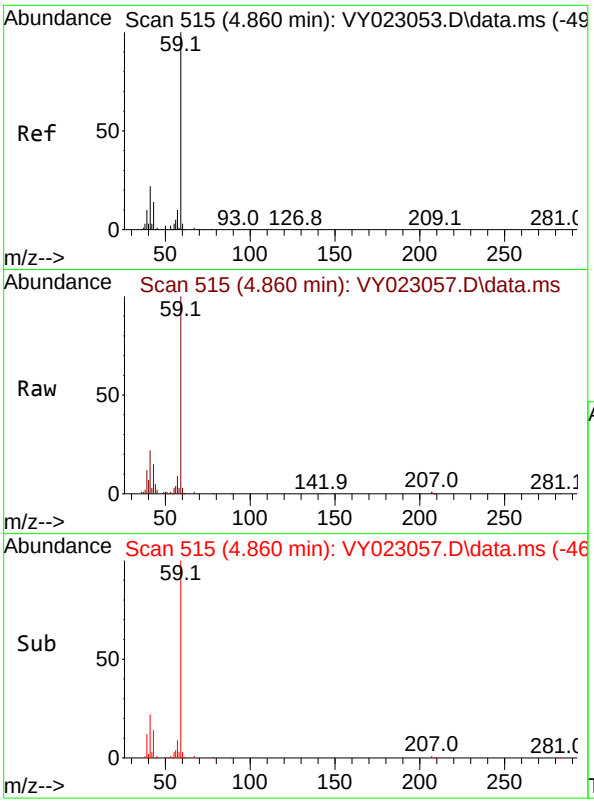




#10
Methyl Iodide
Concen: 51.340 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:142 Resp: 287126

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 44.8 | 34.9 | 52.3 |
| 141 | 14.1 | 11.3 | 16.9 |



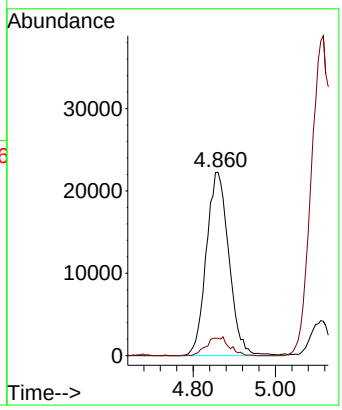


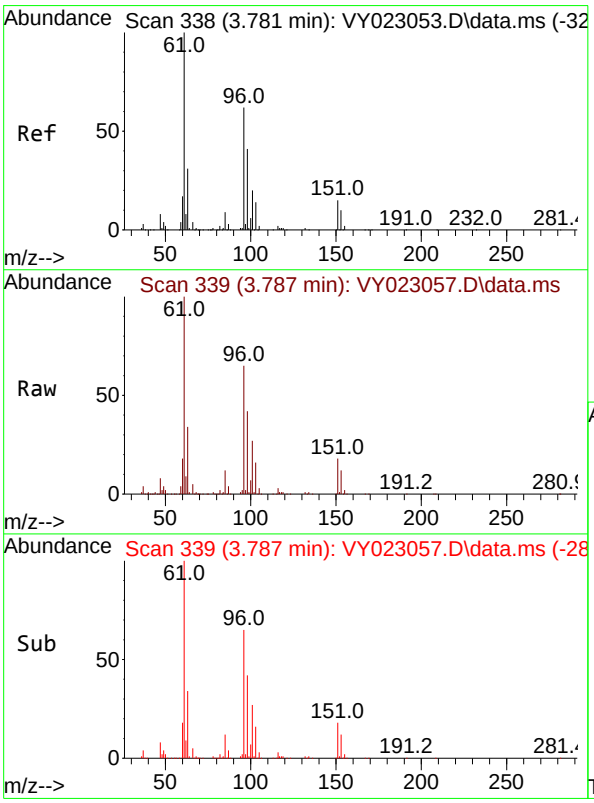

#11
Tert butyl alcohol
Concen: 245.940 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion: 59 Resp: 84906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.2 | 8.6 | 13.0 |

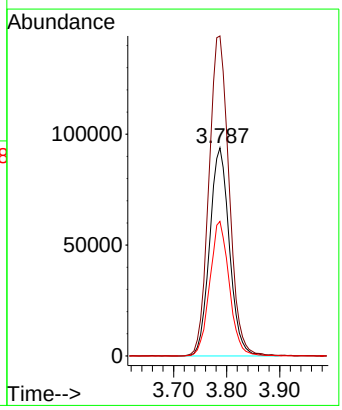


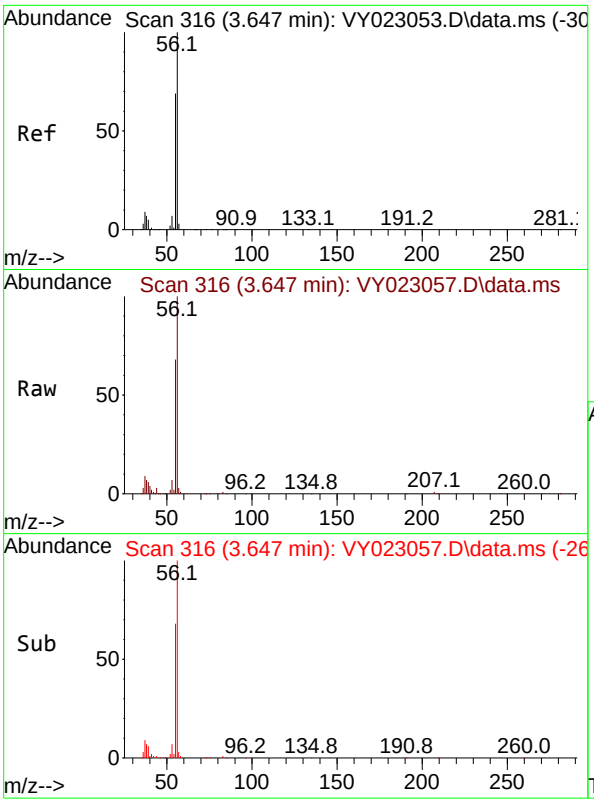




#12
1,1-Dichloroethene
Concen: 47.686 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 96 Resp: 242931

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 153.7 | 129.4 | 194.2 |
| 98 | 64.6 | 52.8 | 79.2 |



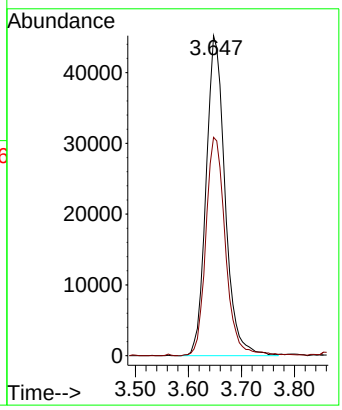


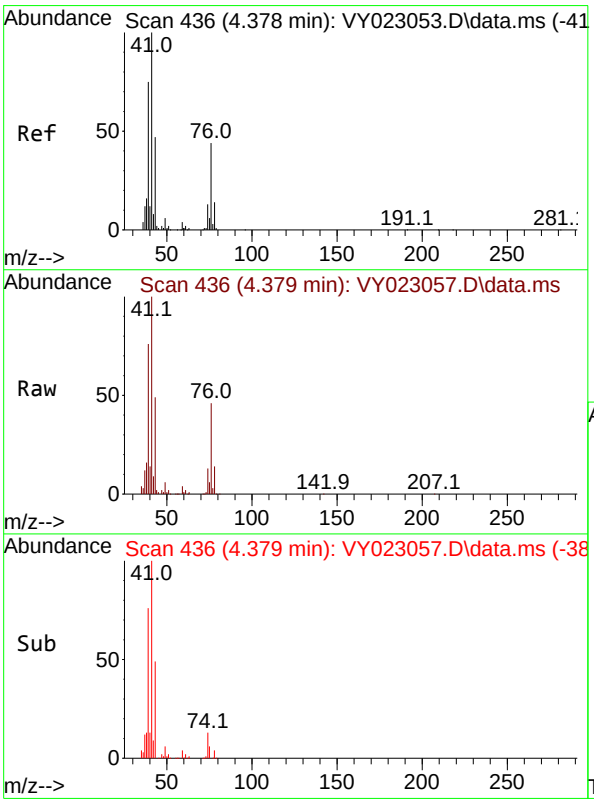

#13
Acrolein
Concen: 222.008 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion: 56 Resp: 112246

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 70.5 | 55.2 | 82.8 |

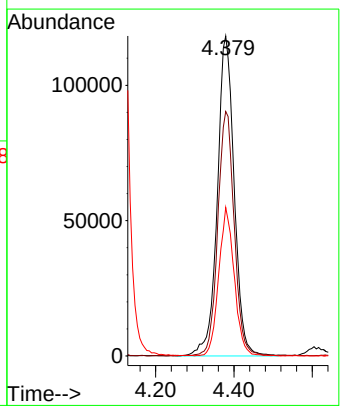


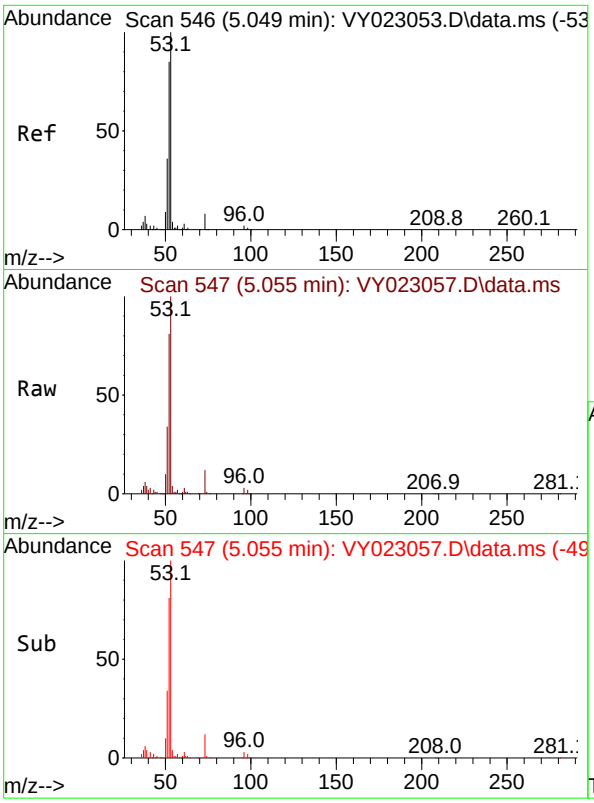




#14
Allyl chloride
Concen: 47.317 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 41 Resp: 354691

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 74.2 | 59.8 | 89.6 |
| 76 | 42.7 | 33.7 | 50.5 |



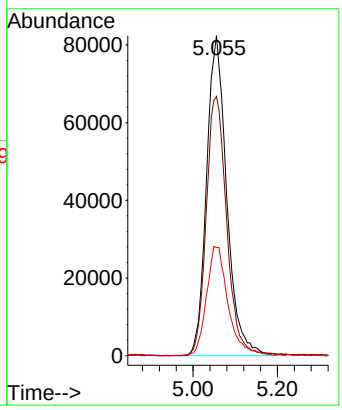


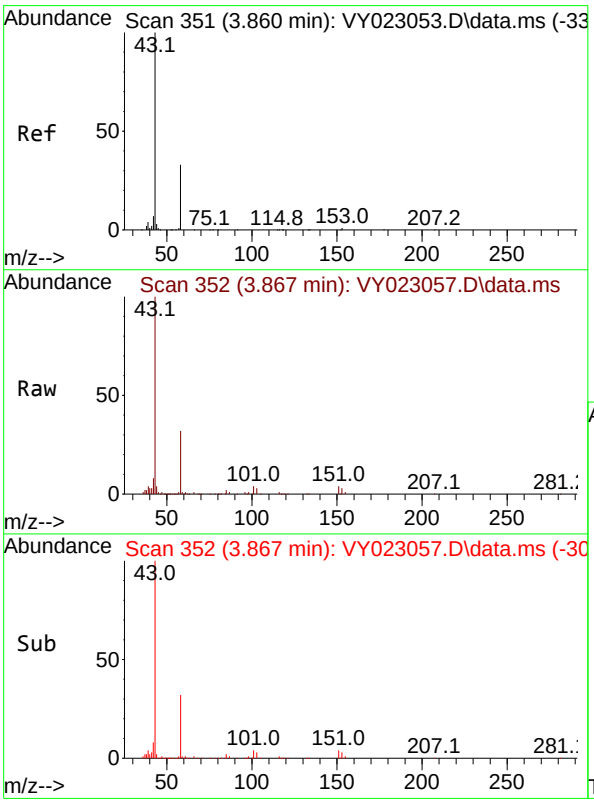

#15
Acrylonitrile
Concen: 242.779 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion: 53 Resp: 274329

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.1 | 65.3 | 97.9 |
| 51 | 36.5 | 29.5 | 44.3 |

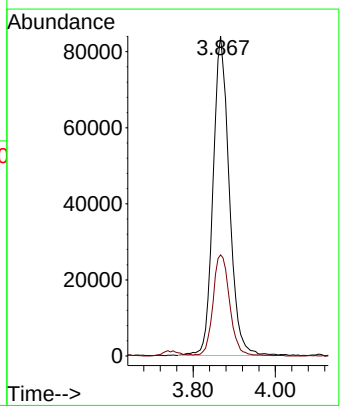


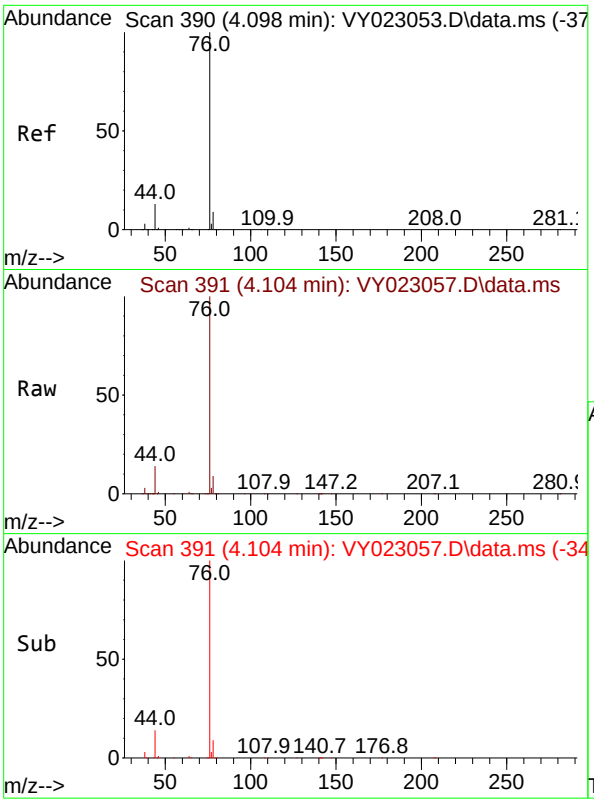




#16
Acetone
Concen: 210.695 ug/l
RT: 3.867 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 43 Resp: 229985

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.5 | 27.1 | 40.7 |



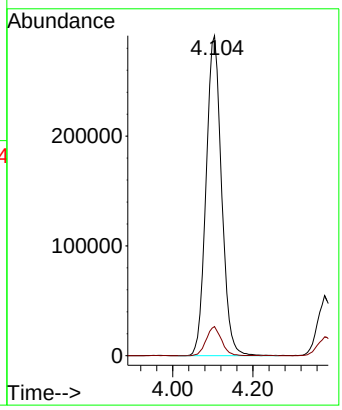


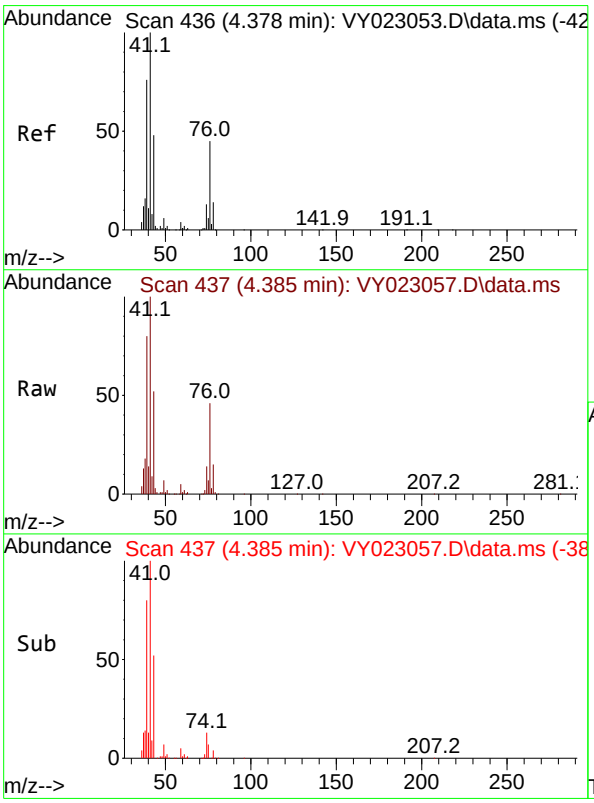

#17
Carbon Disulfide
Concen: 46.948 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion: 76 Resp: 779852

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.1 | 7.4 | 11.2 |

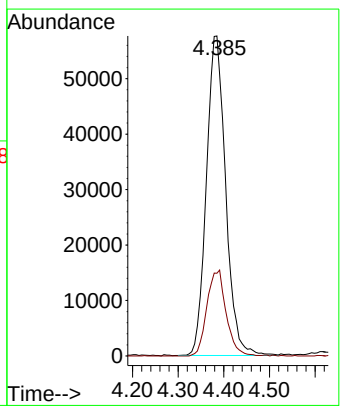


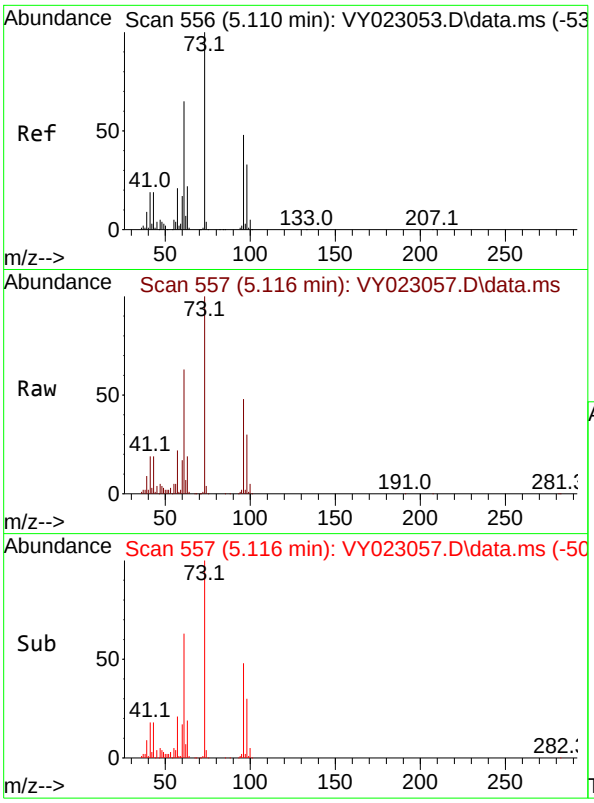




#18
Methyl Acetate
Concen: 51.972 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 43 Resp: 168821

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 26.8 | 21.2 | 31.8 |



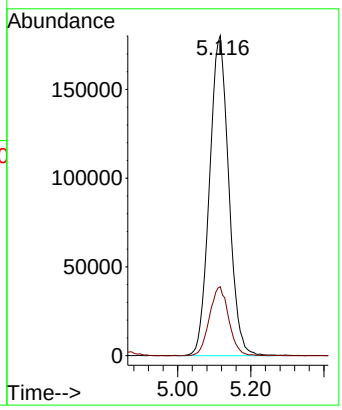


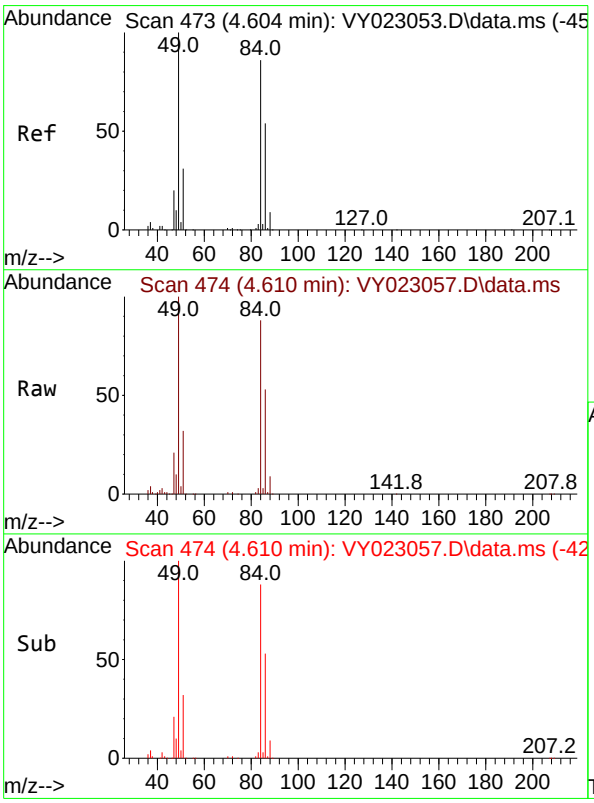

#19
Methyl tert-butyl Ether
Concen: 49.899 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion: 73 Resp: 658713

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.5 | 17.1 | 25.7 |

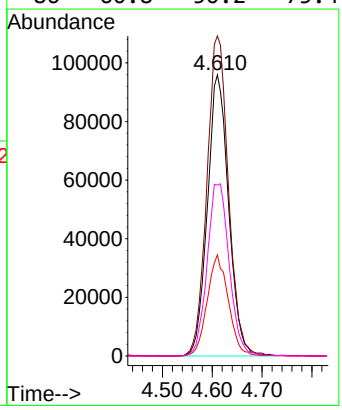


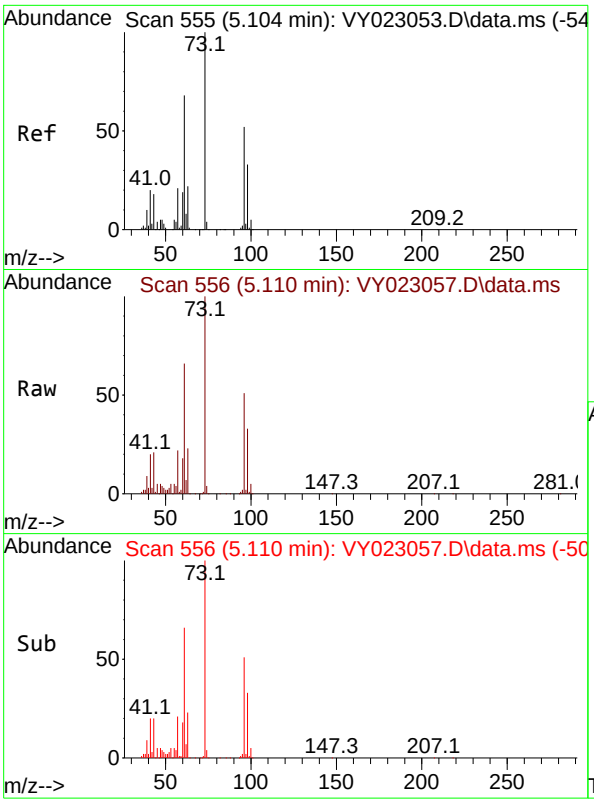




#20
Methylene Chloride
Concen: 49.960 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 84 Resp: 283386

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 113.8 | 93.0 | 139.6 |
| 51 | 36.0 | 29.0 | 43.4 |
| 86 | 60.8 | 50.2 | 75.4 |



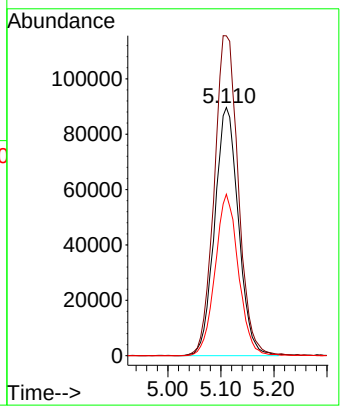


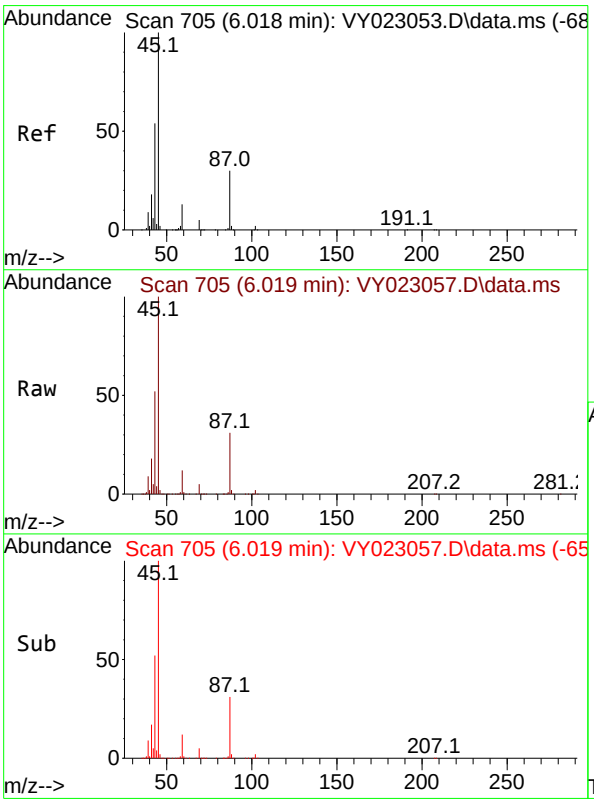

#21
trans-1,2-Dichloroethene
Concen: 48.765 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion: 96 Resp: 279182

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 128.9 | 104.8 | 157.2 |
| 98 | 65.0 | 50.1 | 75.1 |

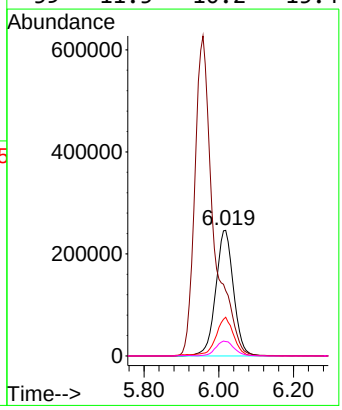


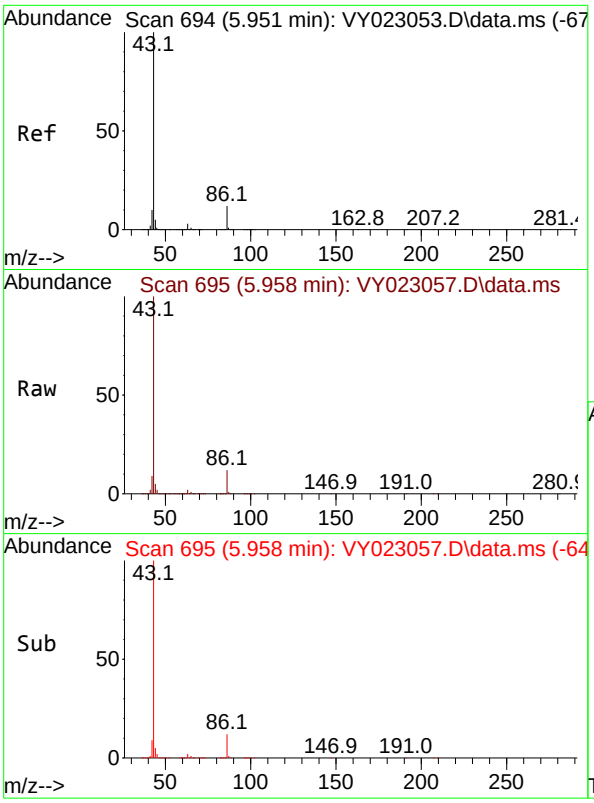




#22
Diisopropyl ether
Concen: 50.011 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 45 Resp: 814622

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 51.7 | 43.4 | 65.0 |
| 87 | 30.8 | 24.4 | 36.6 |
| 59 | 11.5 | 10.2 | 15.4 |



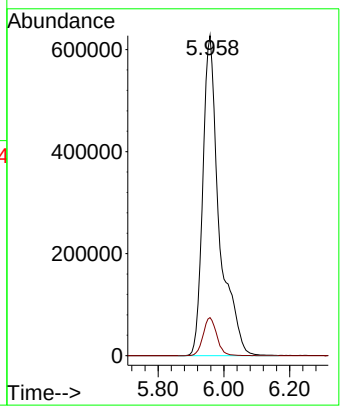


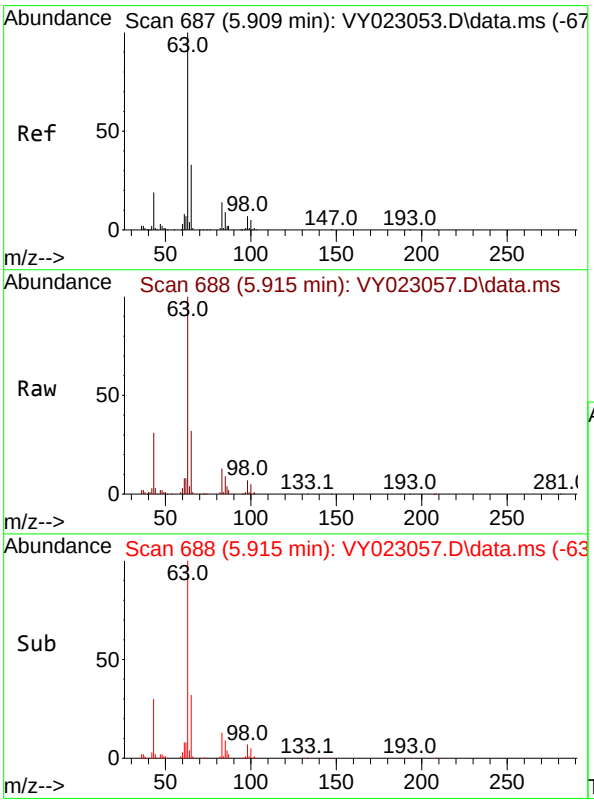

#23
Vinyl Acetate
Concen: 242.360 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion: 43 Resp: 2182924

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.9 | 9.6 | 14.4 |

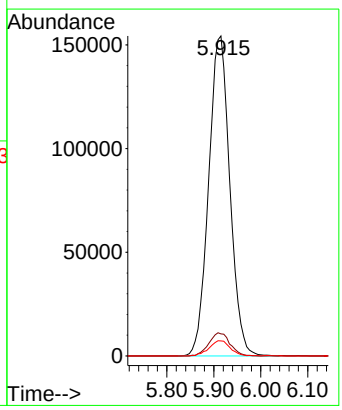


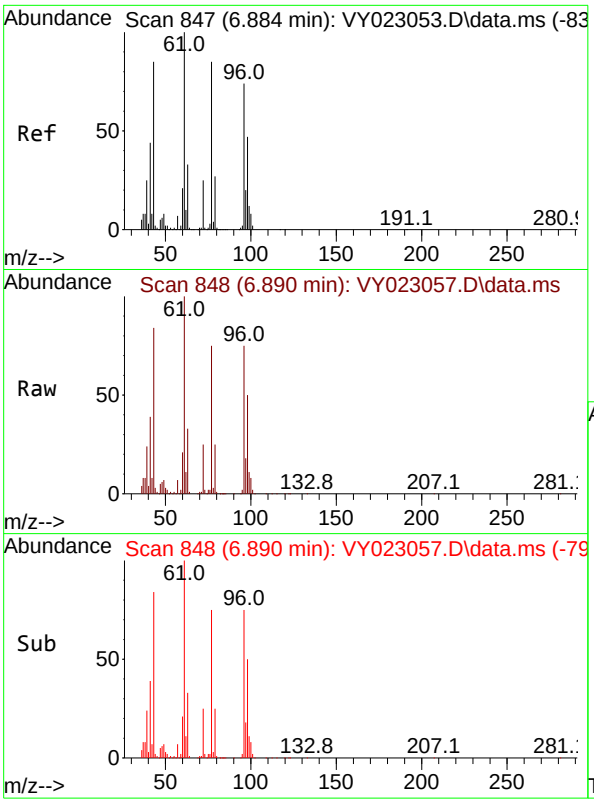




#24
1,1-Dichloroethane
Concen: 48.551 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 63 Resp: 483509

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.9 | 3.5 | 10.6 |
| 100 | 4.7 | 2.4 | 7.1 |



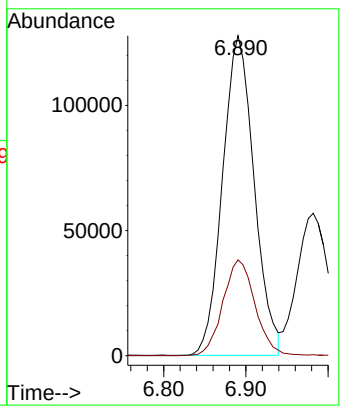


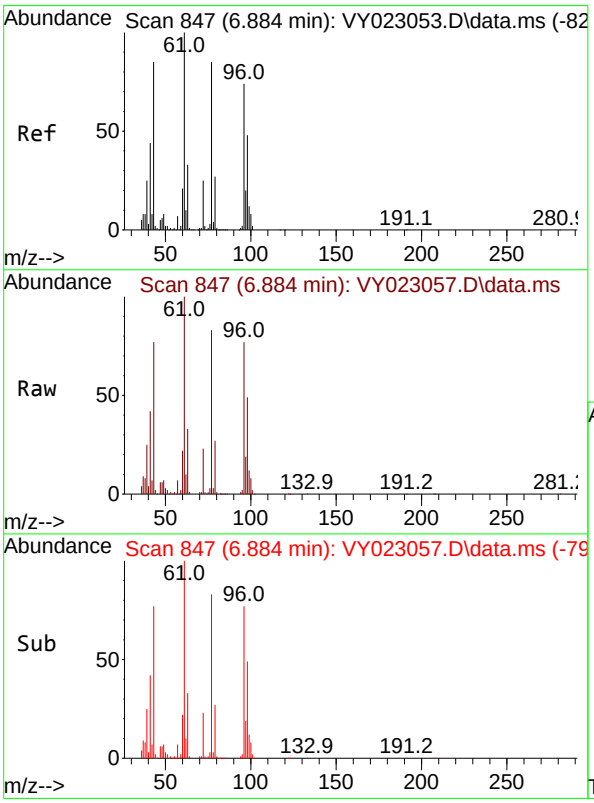

#25
2-Butanone
Concen: 230.028 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion: 43 Resp: 341490

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 30.0 | 23.5 | 35.3 |

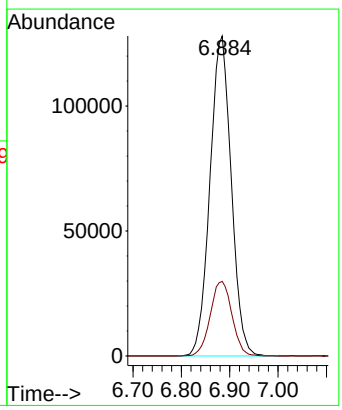


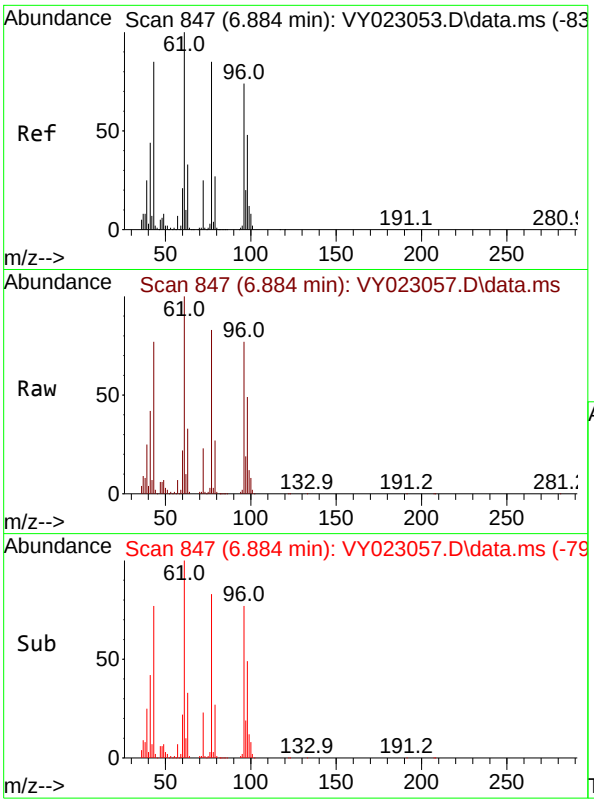




#26
2,2-Dichloropropane
Concen: 45.475 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 77 Resp: 390777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.8 | 11.6 | 34.8 |



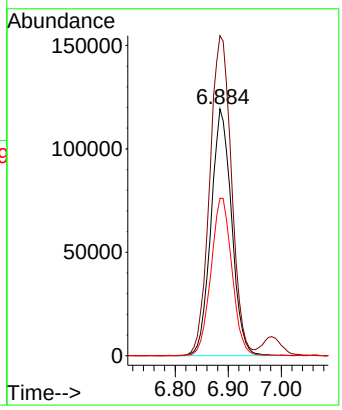


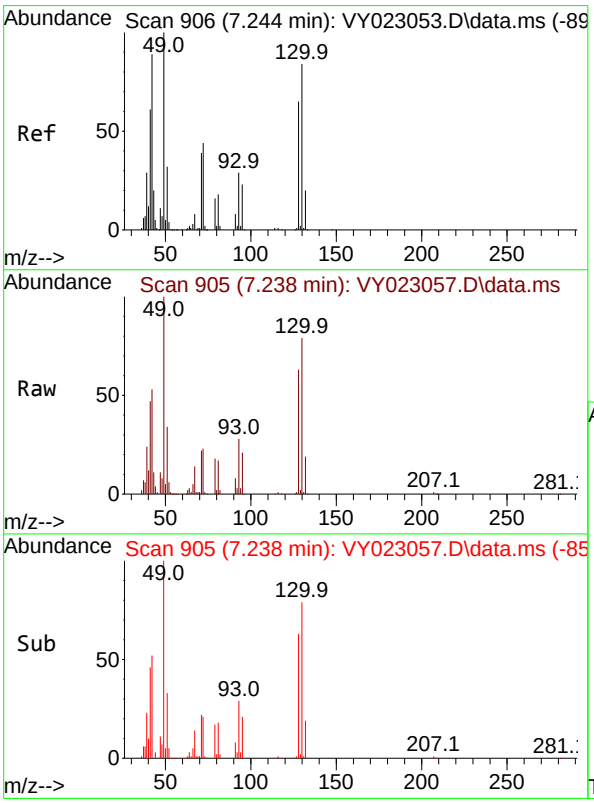

#27
cis-1,2-Dichloroethene
Concen: 48.720 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion: 96 Resp: 322451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 136.9 | 0.0 | 278.6 |
| 98 | 65.0 | 0.0 | 130.4 |

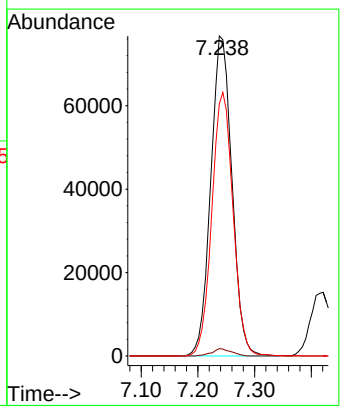


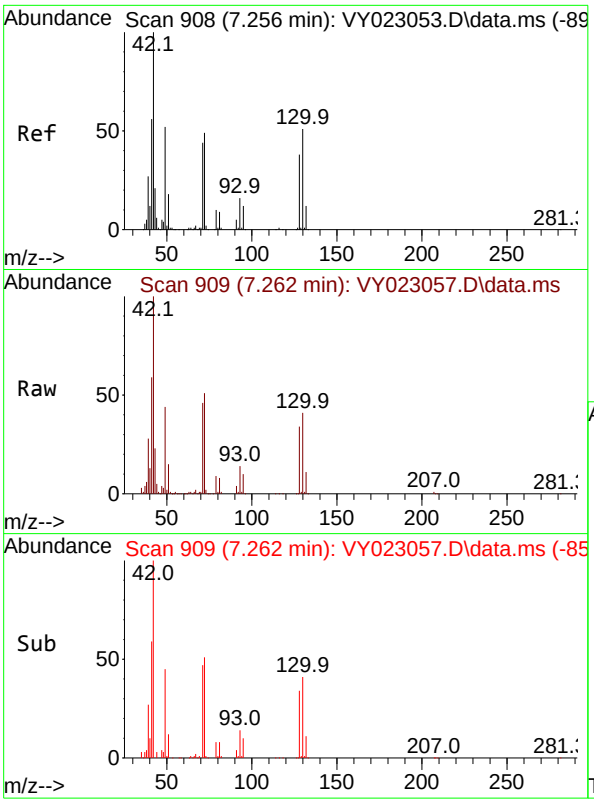




#28
Bromochloromethane
Concen: 50.275 ug/l
RT: 7.238 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 49 Resp: 198640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.1 | 0.0 | 4.2 |
| 130 | 82.6 | 66.4 | 99.6 |



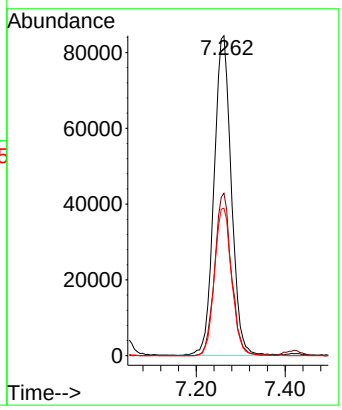


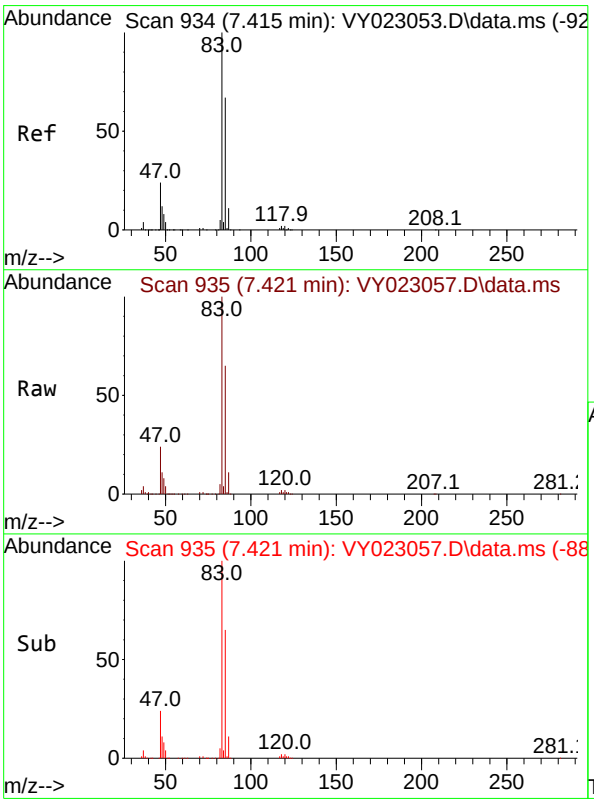

#29
Tetrahydrofuran
Concen: 247.420 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion: 42 Resp: 227680

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 49.3 | 39.4 | 59.2 |
| 71 | 45.7 | 36.5 | 54.7 |

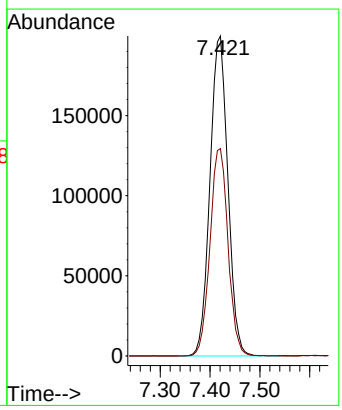


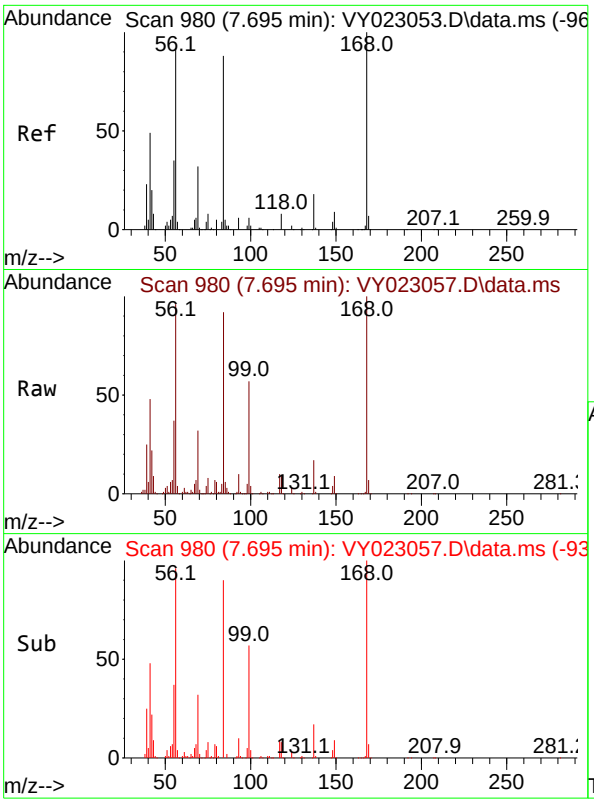




#30
Chloroform
Concen: 48.450 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 83 Resp: 497627

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.8 | 53.8 | 80.8 |



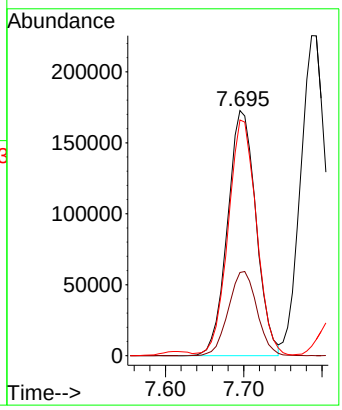


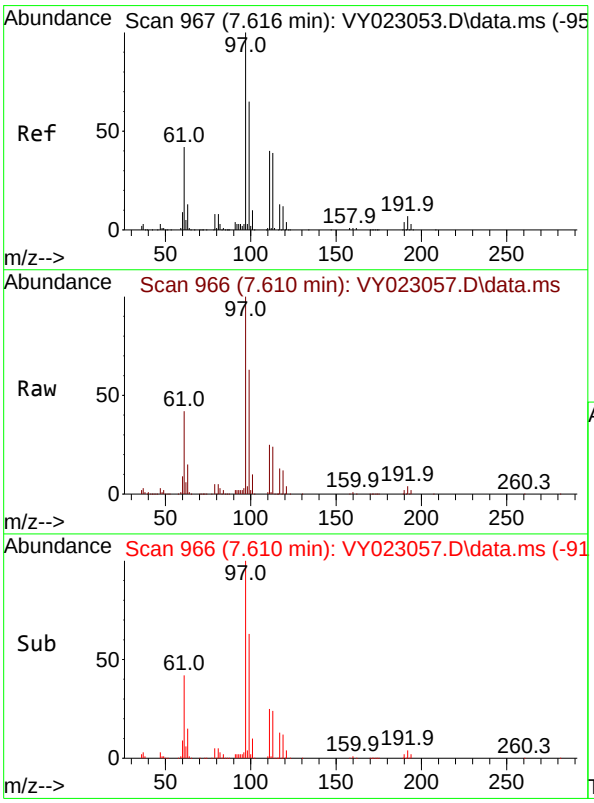

#31
Cyclohexane
Concen: 46.526 ug/l
RT: 7.695 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion: 56 Resp: 436638

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 33.9 | 28.2 | 42.2 |
| 84 | 94.5 | 76.6 | 114.8 |

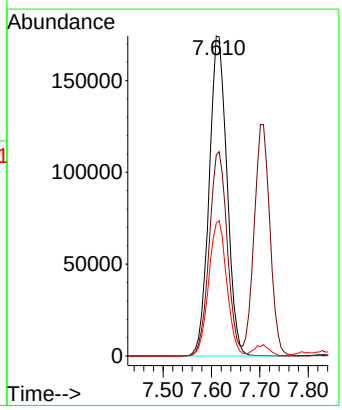


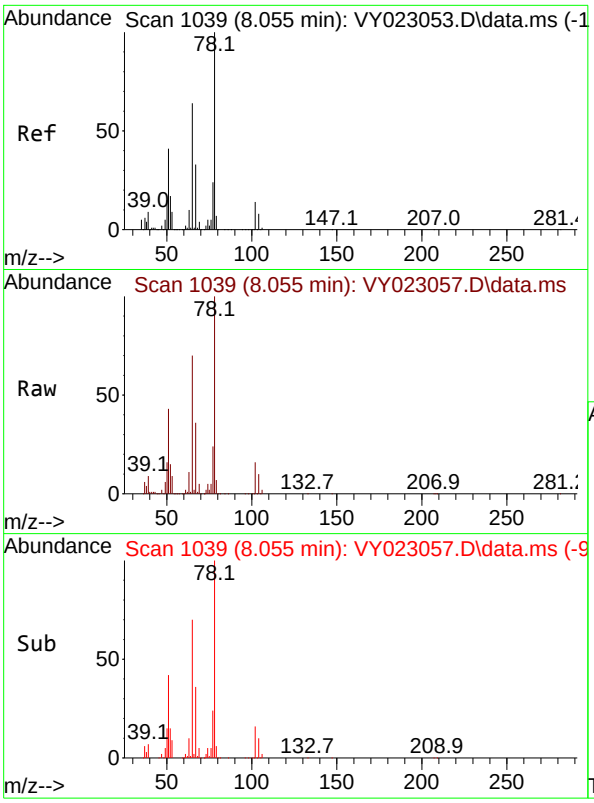




#32
1,1,1-Trichloroethane
Concen: 48.933 ug/l
RT: 7.610 min Scan# 966
Delta R.T. -0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 97 Resp: 445943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.6 | 51.6 | 77.4 |
| 61 | 43.0 | 34.2 | 51.2 |



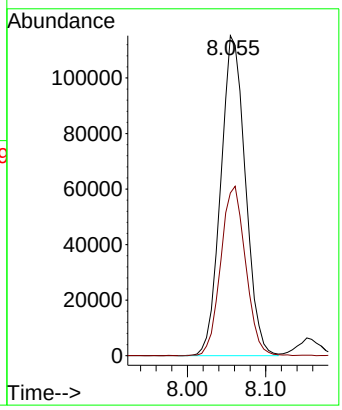


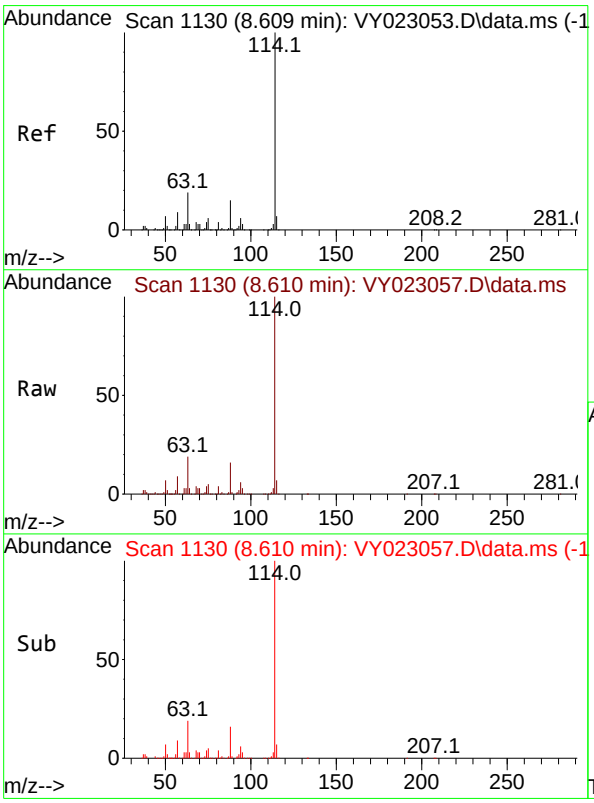

#33
1,2-Dichloroethane-d4
Concen: 50.038 ug/l
RT: 8.055 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion: 65 Resp: 252116

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.4 | 0.0 | 106.8 |

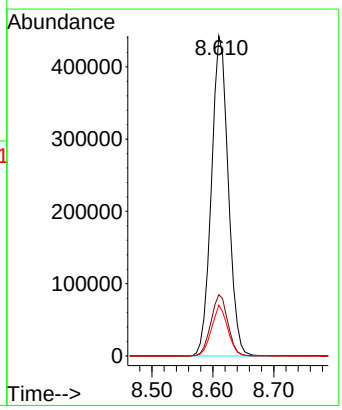


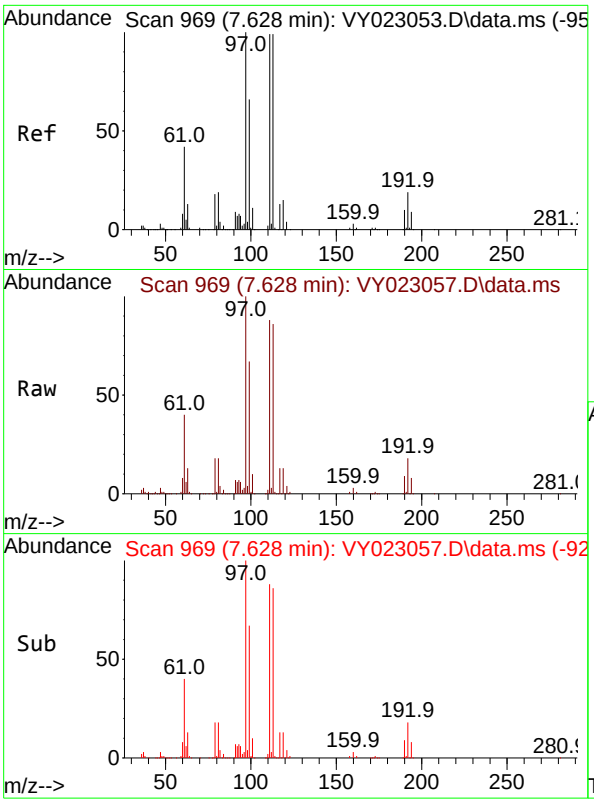




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:114 Resp: 849851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.2 | 0.0 | 38.4 |
| 88 | 15.9 | 0.0 | 30.0 |



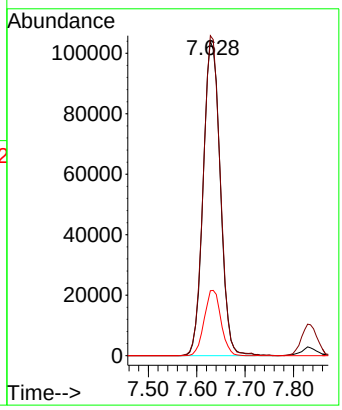


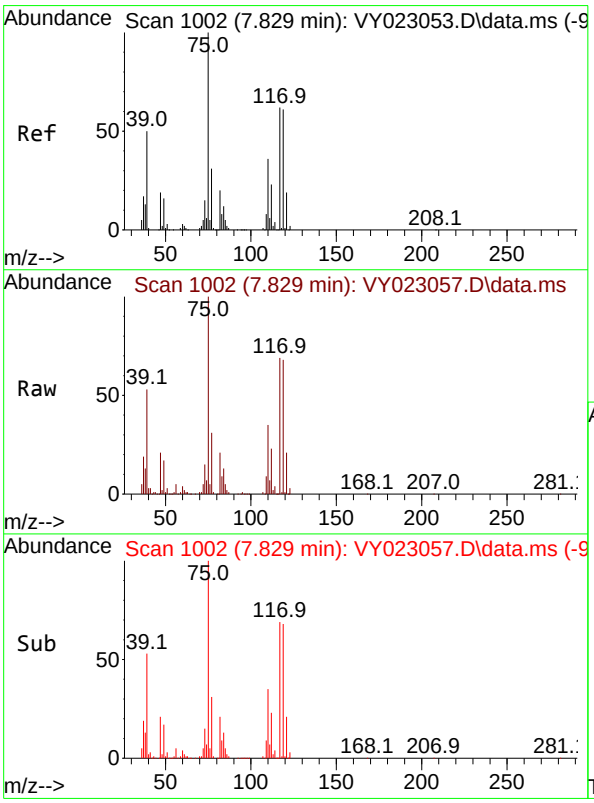

#35
Dibromofluoromethane
Concen: 50.179 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion:113 Resp: 255171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.3 | 81.1 | 121.7 |
| 192 | 20.4 | 16.2 | 24.4 |

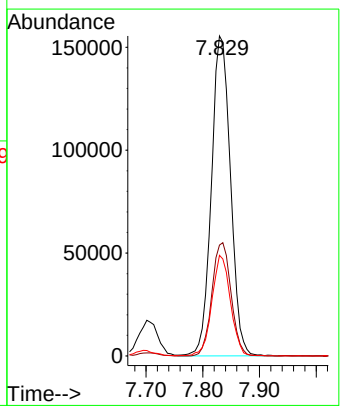


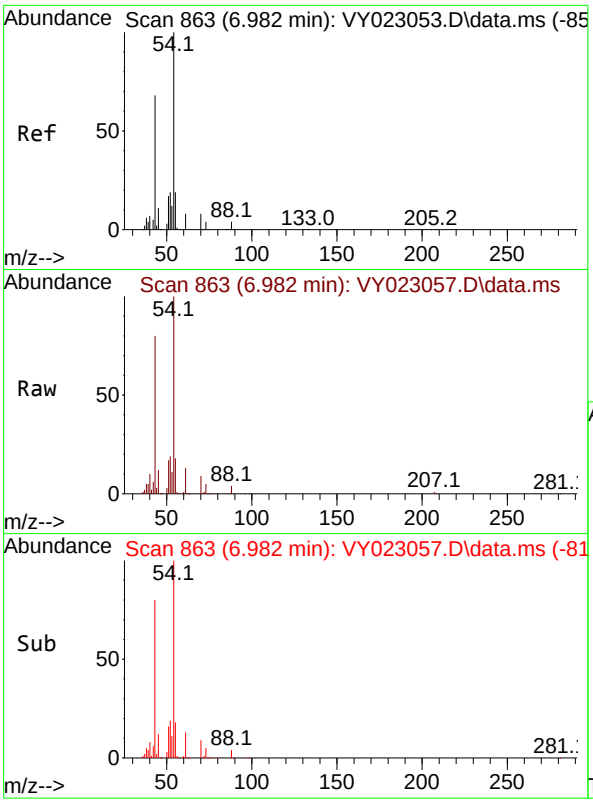




#36
1,1-Dichloropropene
Concen: 48.193 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 75 Resp: 364210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.4 | 18.1 | 54.4 |
| 77 | 30.6 | 24.6 | 37.0 |



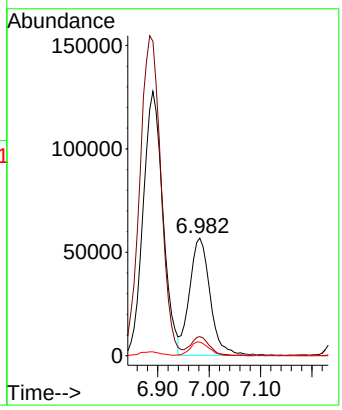


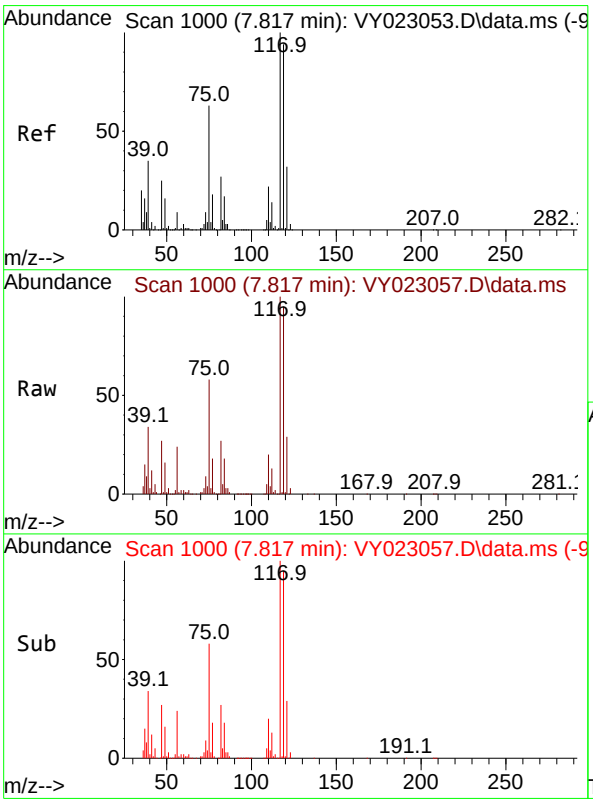

#37
Ethyl Acetate
Concen: 49.621 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion: 43 Resp: 157530

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.4 | 11.9 | 17.9 |
| 70 | 10.7 | 8.8 | 13.2 |

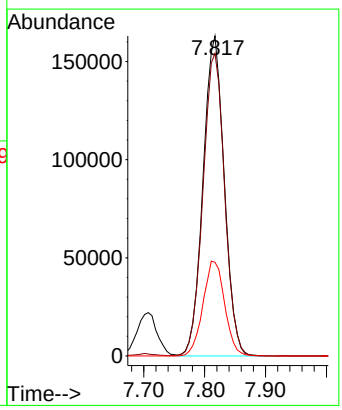


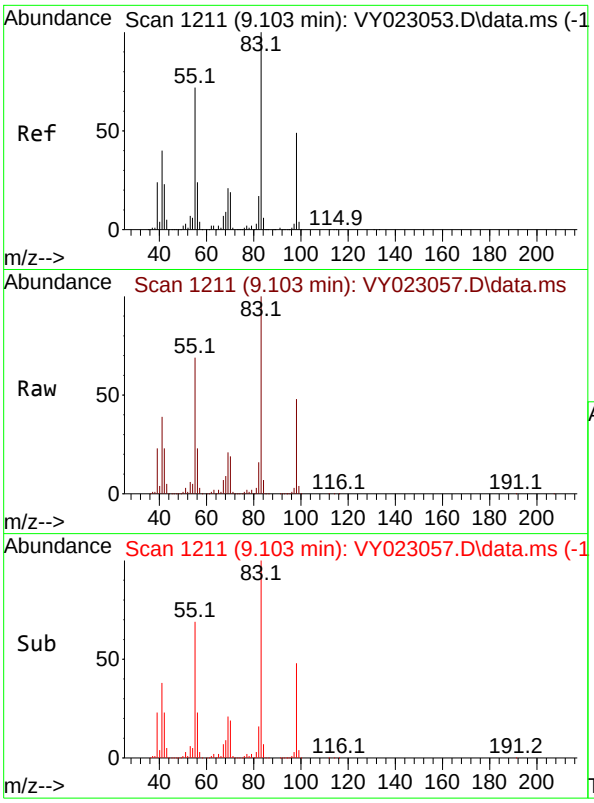




#38
Carbon Tetrachloride
Concen: 48.030 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:117 Resp: 394245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.5 | 75.6 | 113.4 |
| 121 | 29.2 | 25.8 | 38.8 |



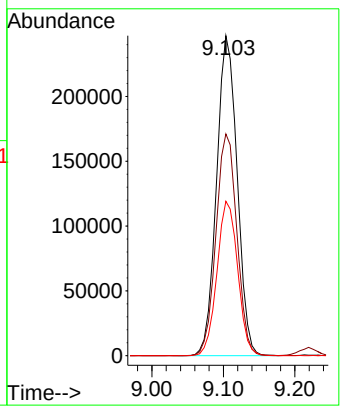


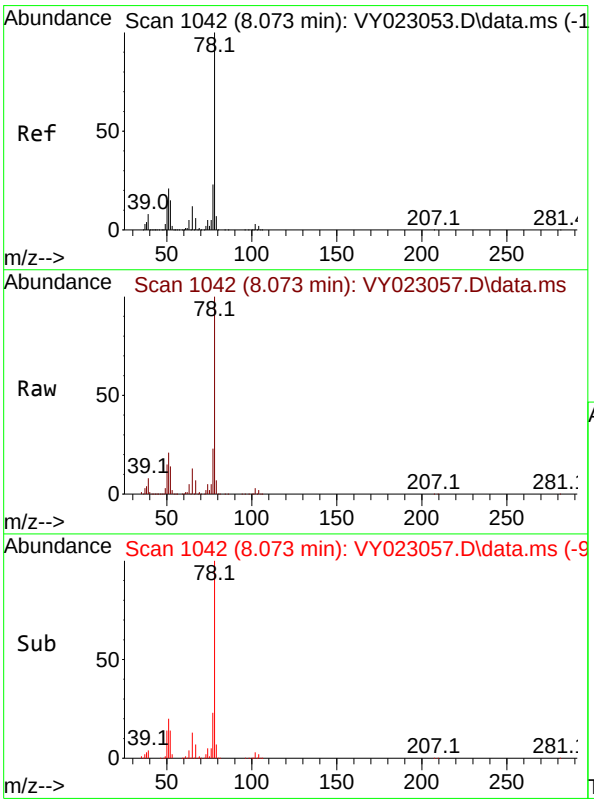

#39
Methylcyclohexane
Concen: 49.625 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion: 83 Resp: 493867

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 69.3 | 57.6 | 86.4 |
| 98 | 48.2 | 39.2 | 58.8 |

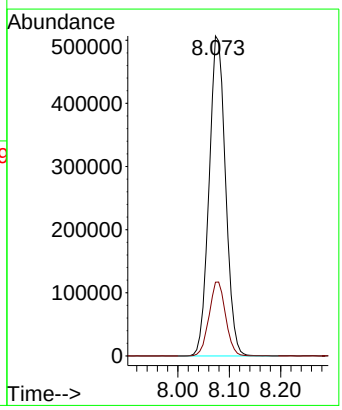


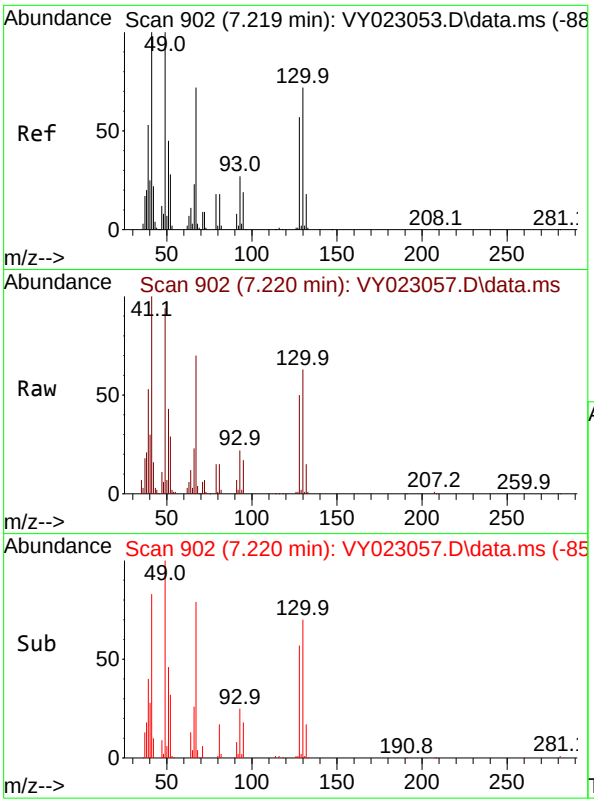




#40
Benzene
Concen: 48.428 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 78 Resp: 1128023

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.1 | 18.6 | 28.0 |



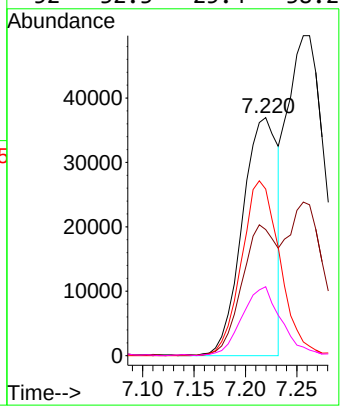


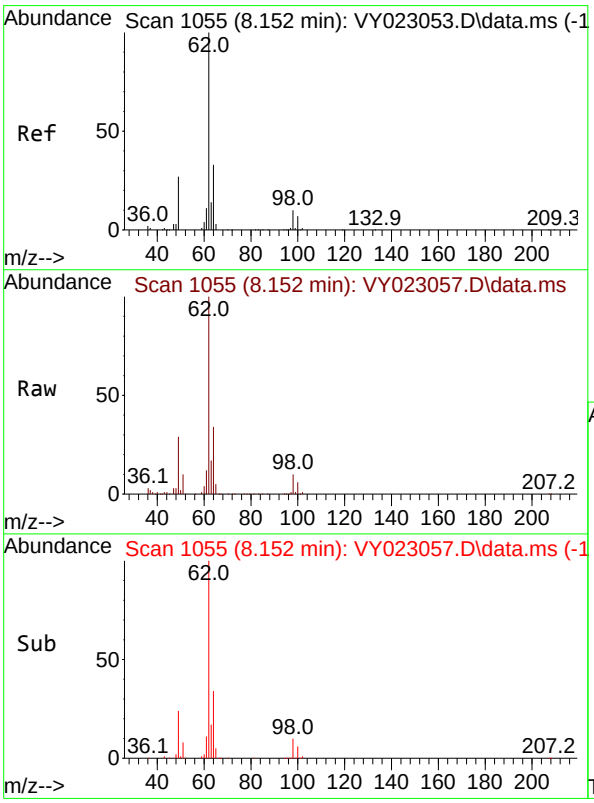

#41
Methacrylonitrile
Concen: 48.269 ug/l
RT: 7.220 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion: 41 Resp: 88437

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 53.9 | 43.4 | 65.2 |
| 67 | 80.6 | 63.6 | 95.4 |
| 52 | 32.3 | 25.4 | 38.2 |

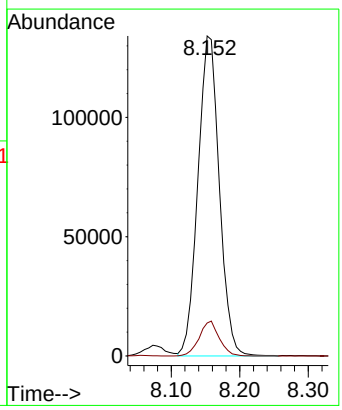


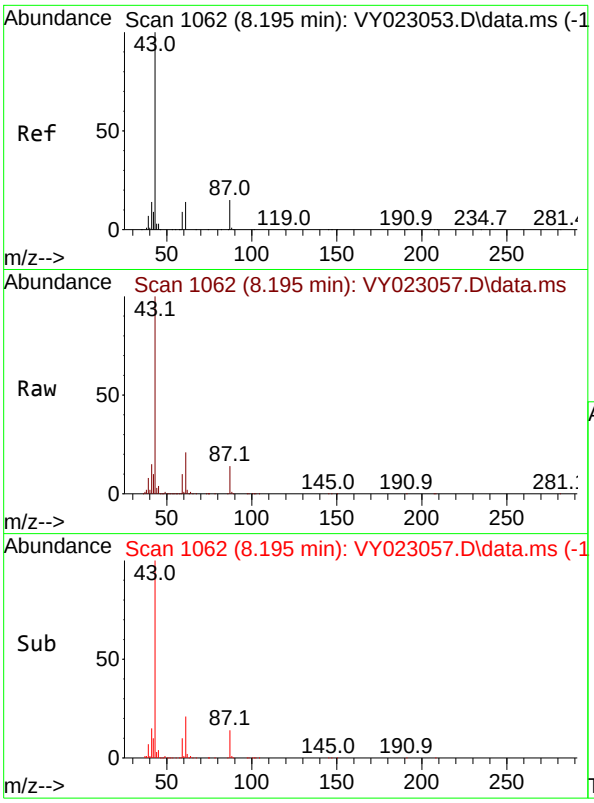




#42
1,2-Dichloroethane
Concen: 48.162 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 62 Resp: 291766

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.1 | 0.0 | 20.6 |



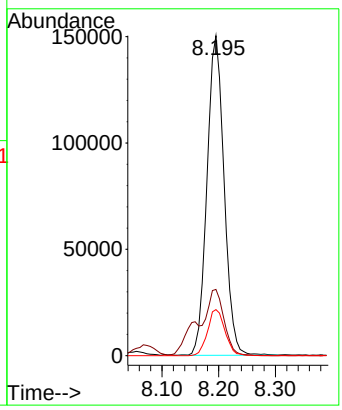


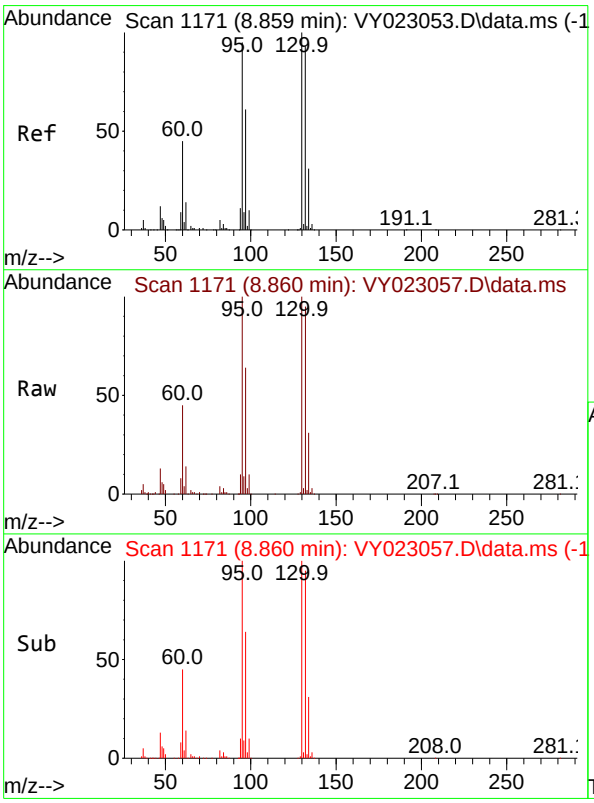

#43
Isopropyl Acetate
Concen: 49.094 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion: 43 Resp: 315013

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 22.0 | 16.4 | 24.6 |
| 87 | 14.7 | 11.8 | 17.6 |

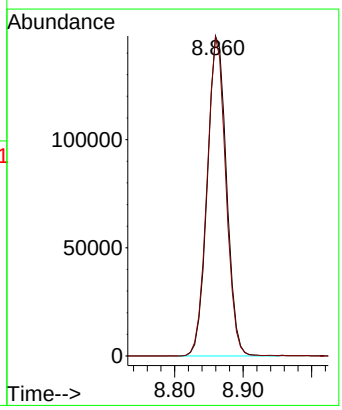


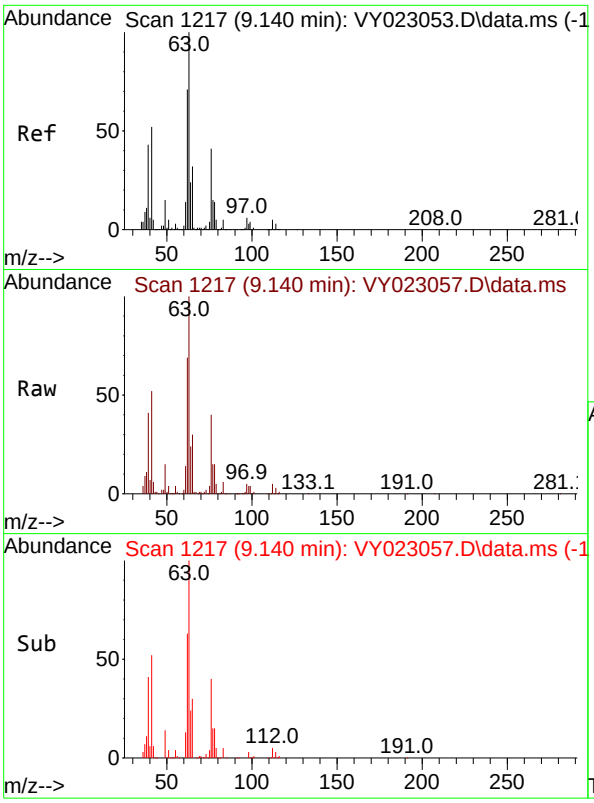




#44
Trichloroethene
Concen: 47.803 ug/l
RT: 8.860 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:130 Resp: 287745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 99.7 | 0.0 | 190.2 |



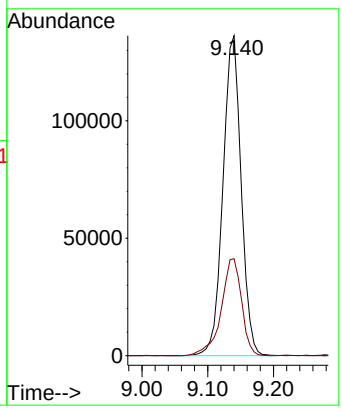


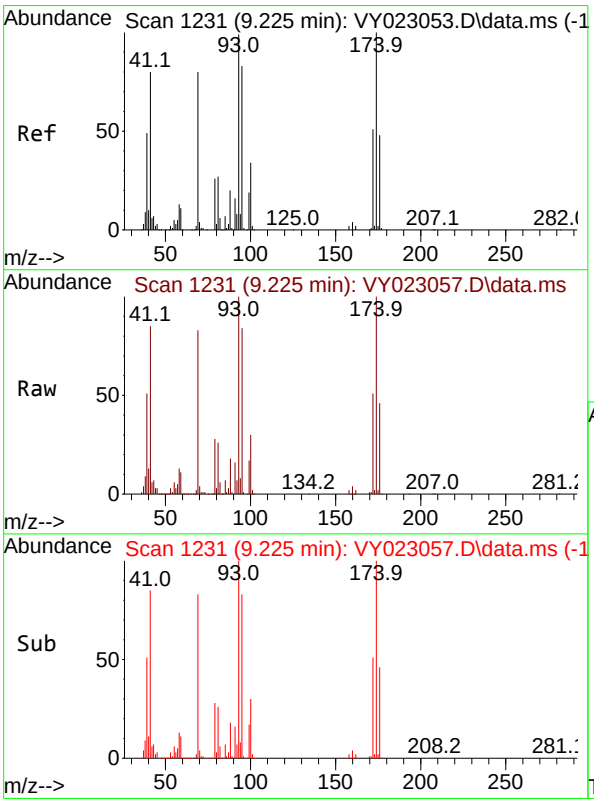

#45
1,2-Dichloropropane
Concen: 48.961 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion: 63 Resp: 262408

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.3 | 25.3 | 37.9 |

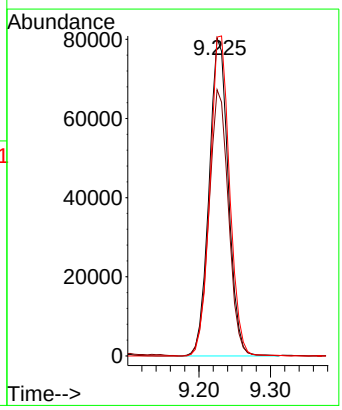


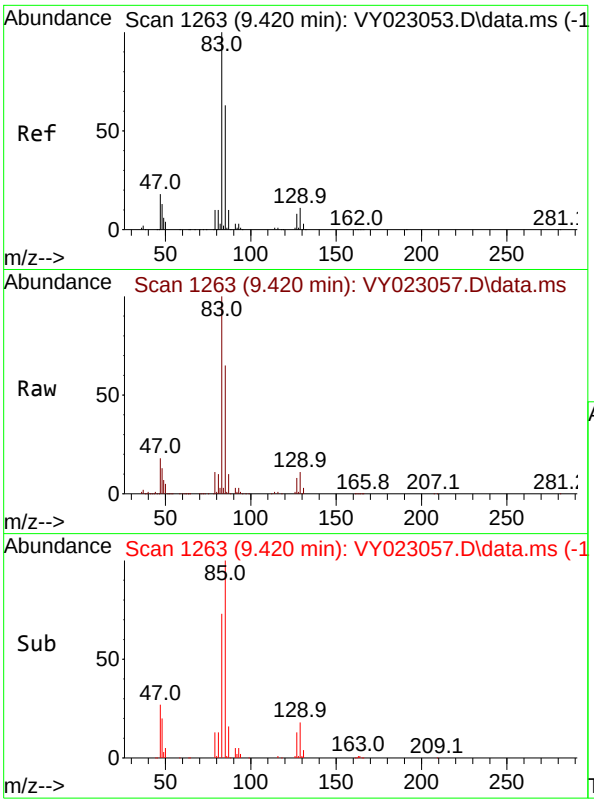




#46
Dibromomethane
Concen: 48.679 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 93 Resp: 149745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 84.9 | 66.5 | 99.7 |
| 174 | 102.5 | 81.8 | 122.8 |



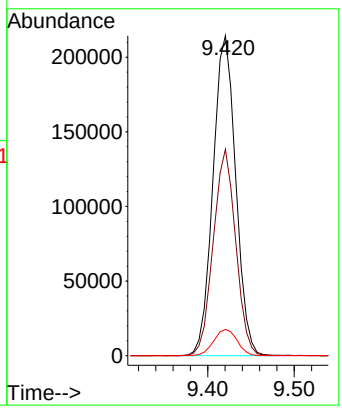


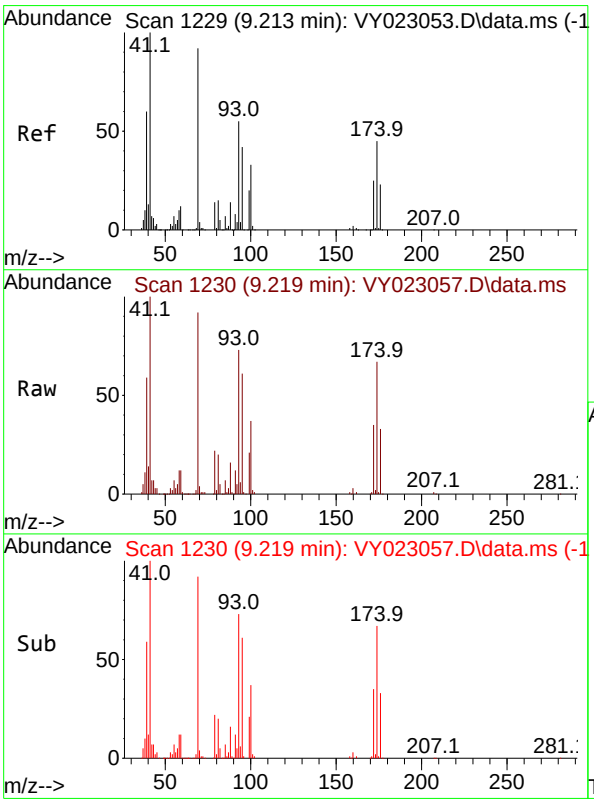

#47
Bromodichloromethane
Concen: 49.463 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion: 83 Resp: 391522

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.5 | 50.2 | 75.4 |
| 127 | 8.2 | 6.6 | 10.0 |

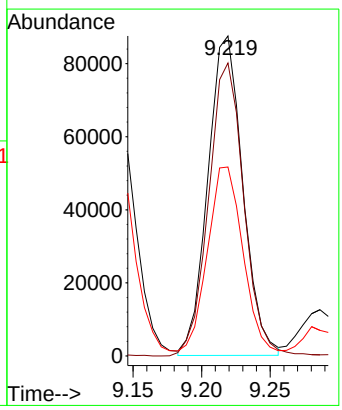


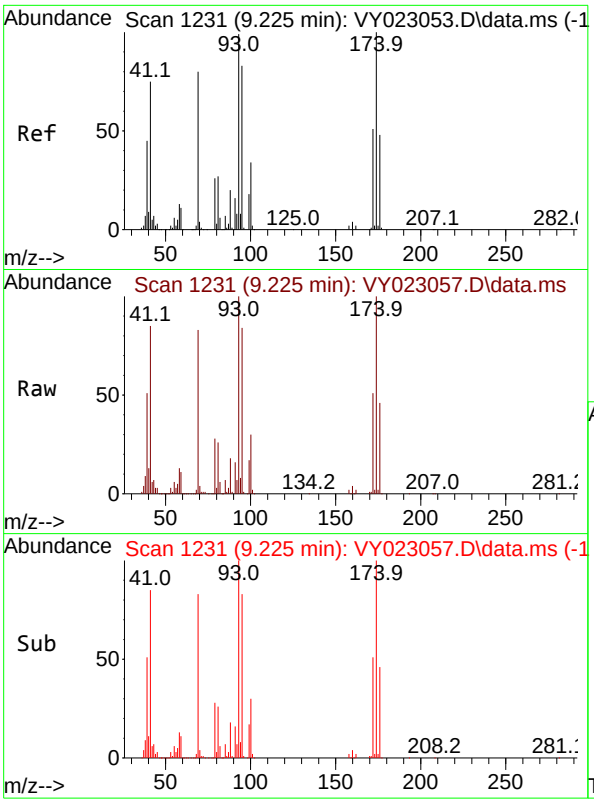




#48
Methyl methacrylate
Concen: 50.520 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 41 Resp: 155118

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 92.7 | 73.2 | 109.8 |
| 39 | 57.8 | 47.0 | 70.4 |



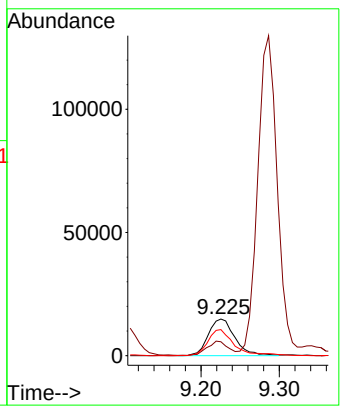


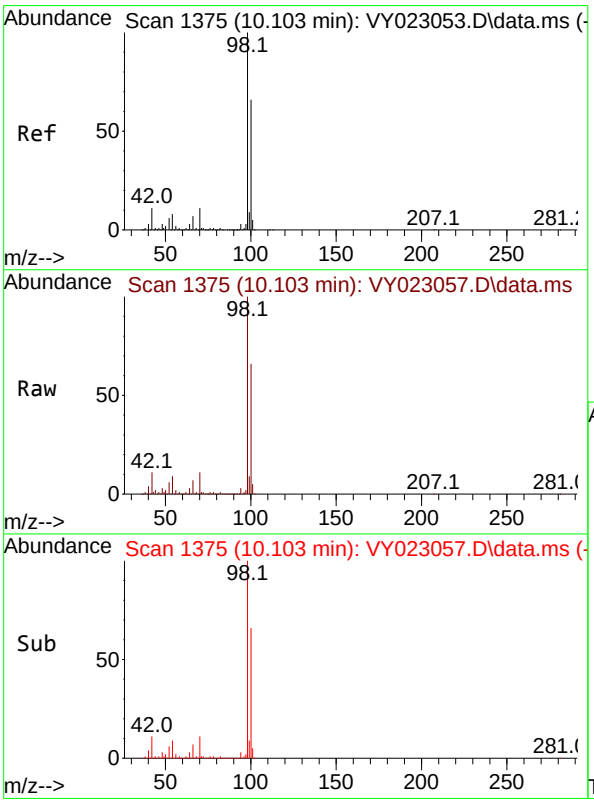

#49
1,4-Dioxane
Concen: 971.749 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion: 88 Resp: 35050

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 30.2 | 24.3 | 36.5 |
| 58 | 70.9 | 55.4 | 83.0 |

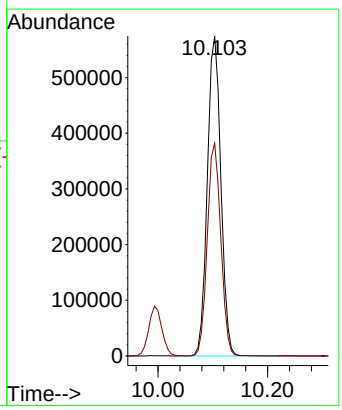


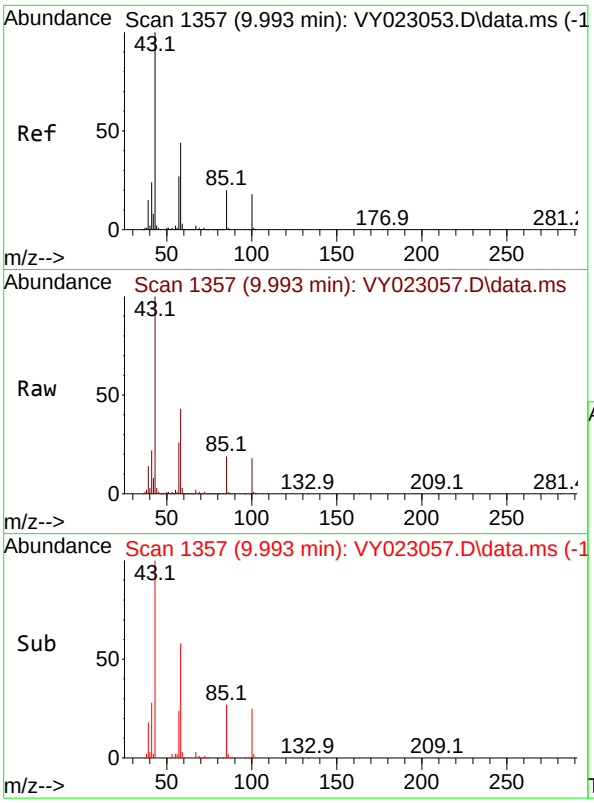




#50
Toluene-d8
Concen: 49.306 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 98 Resp: 979510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.4 | 52.3 | 78.5 |



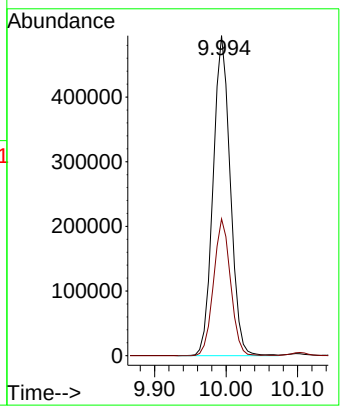


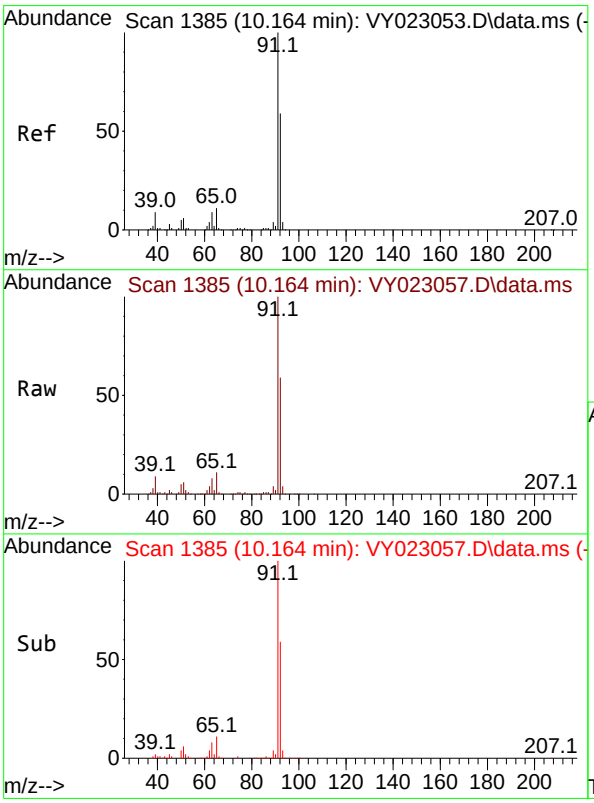

#51
4-Methyl-2-Pentanone
Concen: 248.943 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion: 43 Resp: 823949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 42.3 | 33.5 | 50.3 |

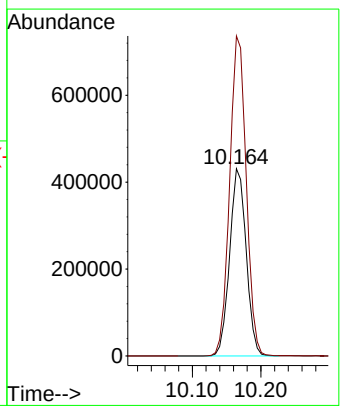


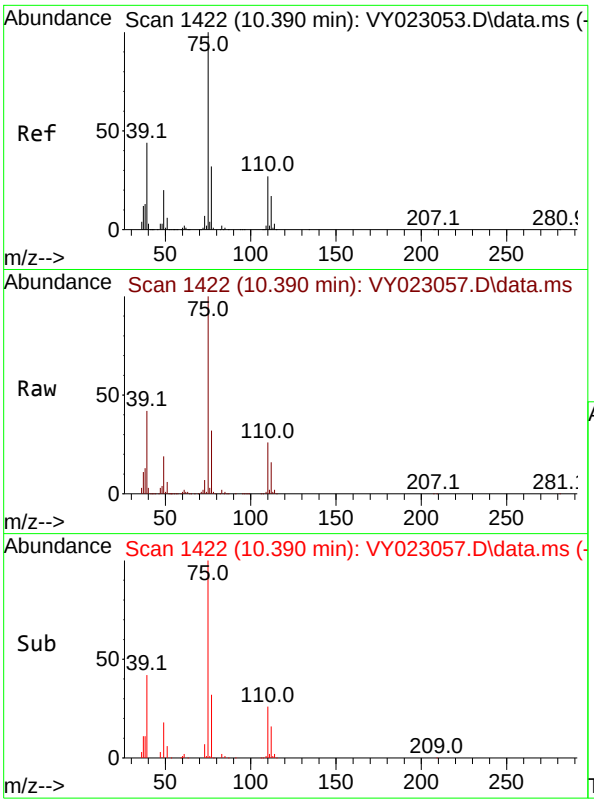




#52
Toluene
Concen: 48.963 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 92 Resp: 724356

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 171.1 | 136.4 | 204.6 |



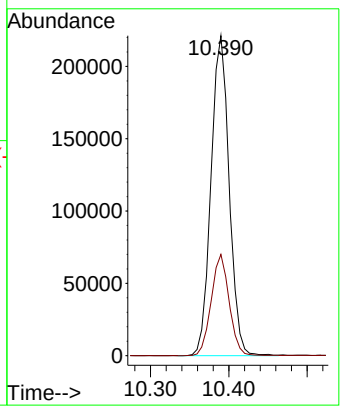


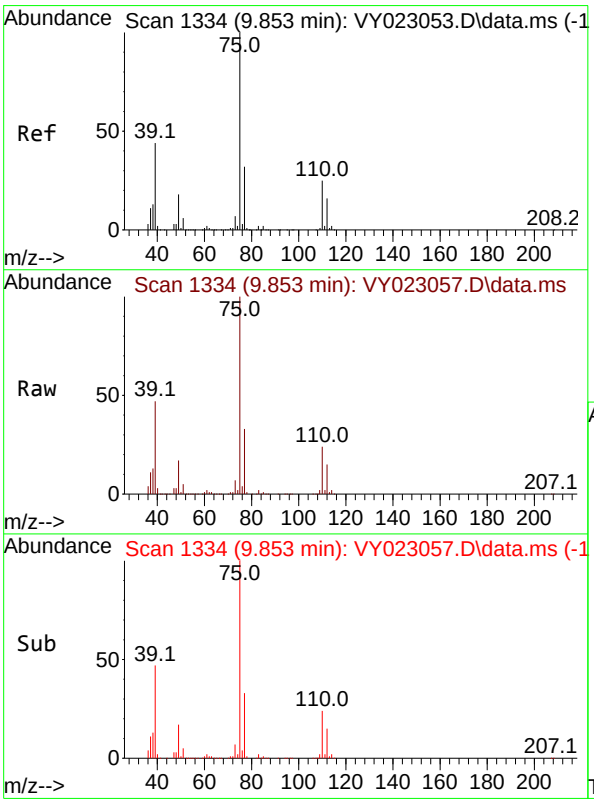

#53
t-1,3-Dichloropropene
Concen: 49.699 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion: 75 Resp: 356228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.6 | 25.7 | 38.5 |

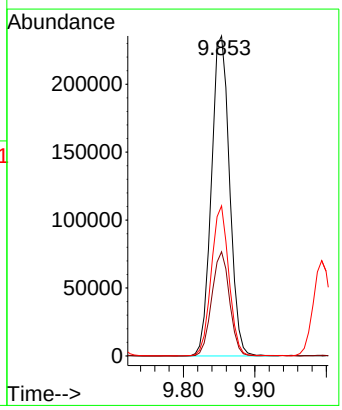


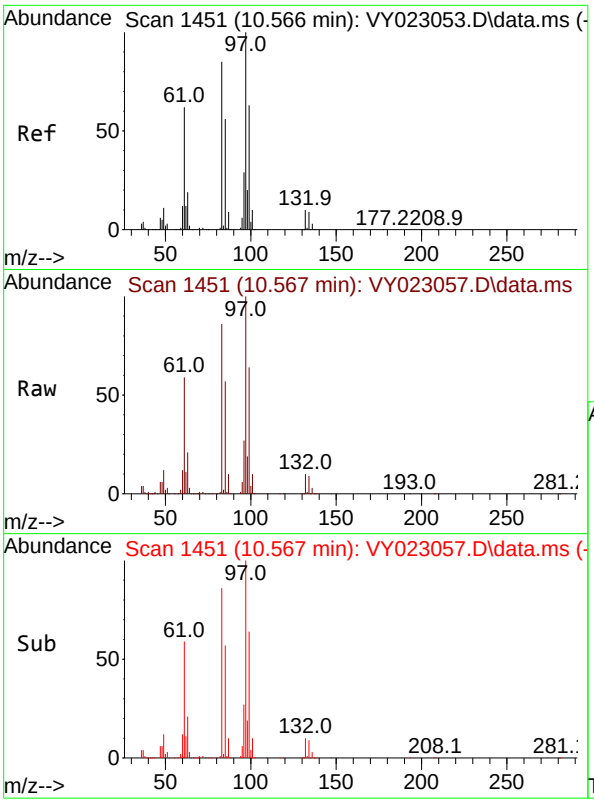




#54
cis-1,3-Dichloropropene
Concen: 48.965 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 75 Resp: 415017

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.5 | 25.4 | 38.0 |
| 39 | 46.8 | 35.6 | 53.4 |



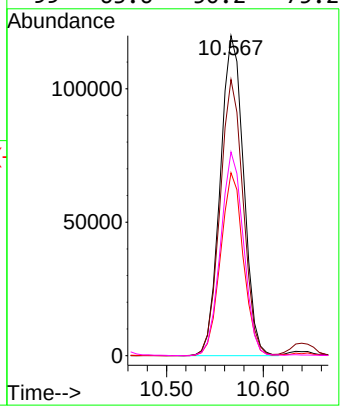


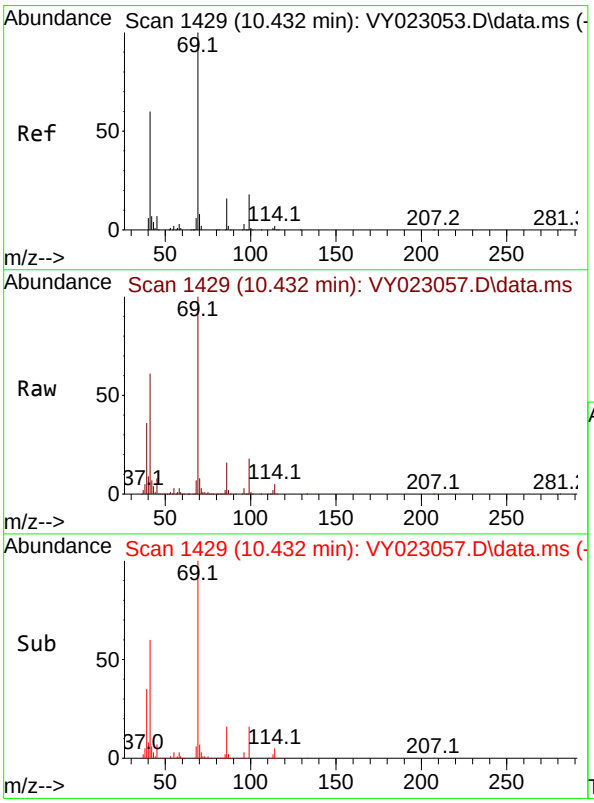

#55
1,1,2-Trichloroethane
Concen: 48.867 ug/l
RT: 10.567 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion: 97 Resp: 201146

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 86.2 | 67.7 | 101.5 |
| 85 | 57.1 | 44.5 | 66.7 |
| 99 | 63.6 | 50.2 | 75.2 |

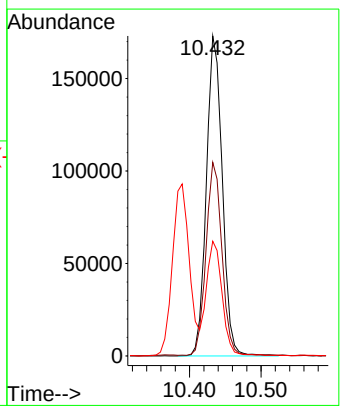


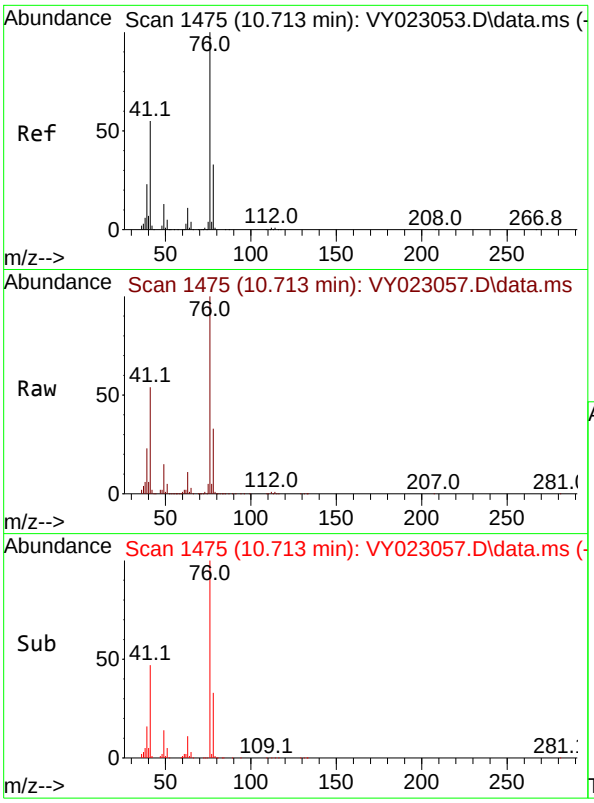




#56
Ethyl methacrylate
Concen: 50.779 ug/l
RT: 10.432 min Scan# 1429
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 69 Resp: 267458

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 60.8 | 48.6 | 72.8 |
| 39 | 35.0 | 27.0 | 40.4 |



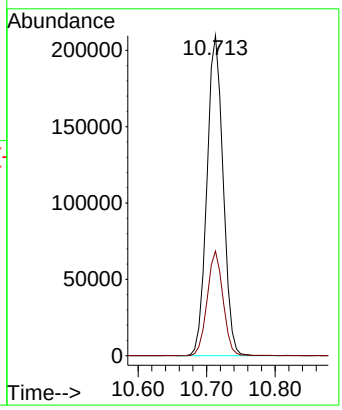


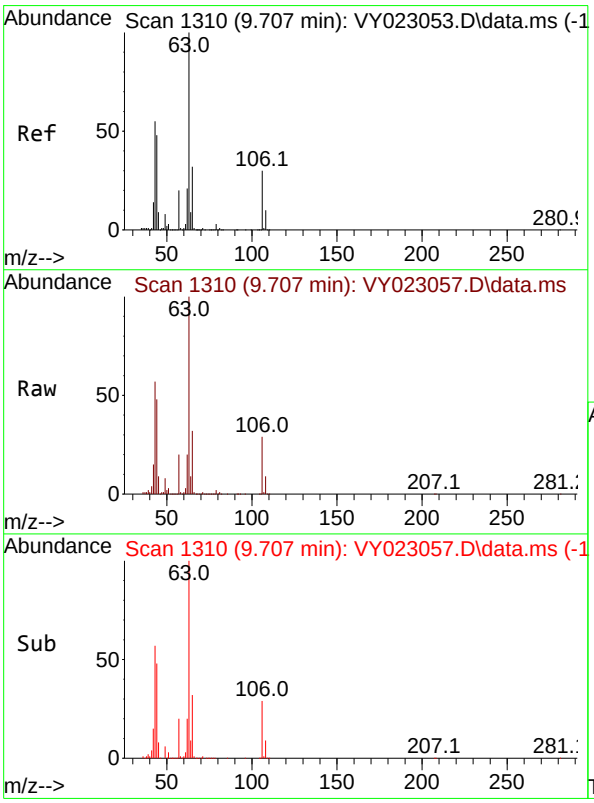

#57
1,3-Dichloropropane
Concen: 49.228 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion: 76 Resp: 343649

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.0 | 26.0 | 39.0 |

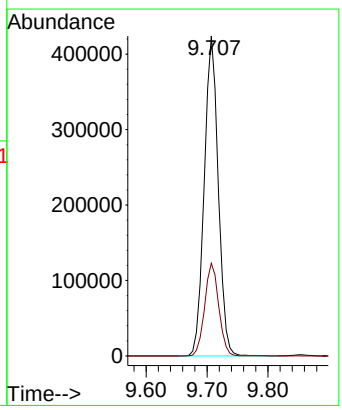


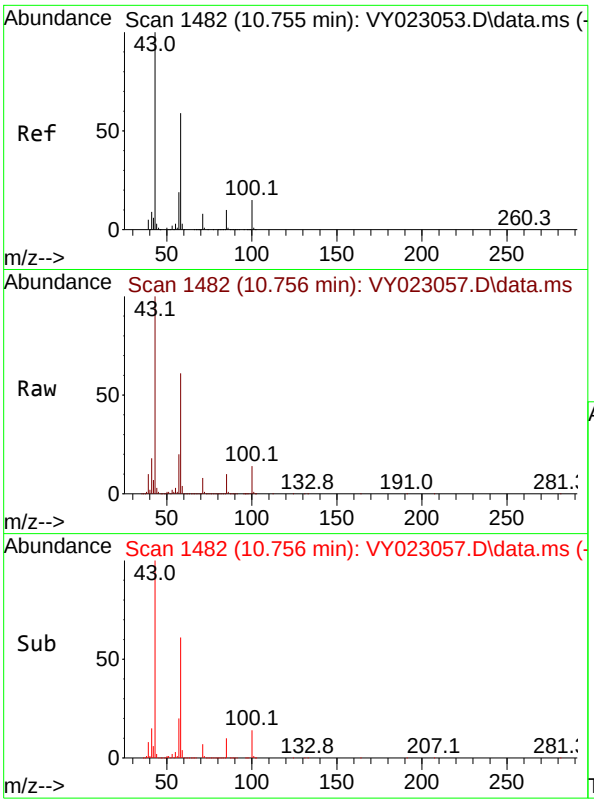




#58
2-Chloroethyl Vinyl ether
Concen: 273.240 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 63 Resp: 678865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 29.1 | 23.2 | 34.8 |



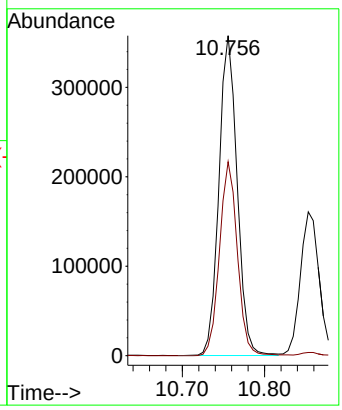


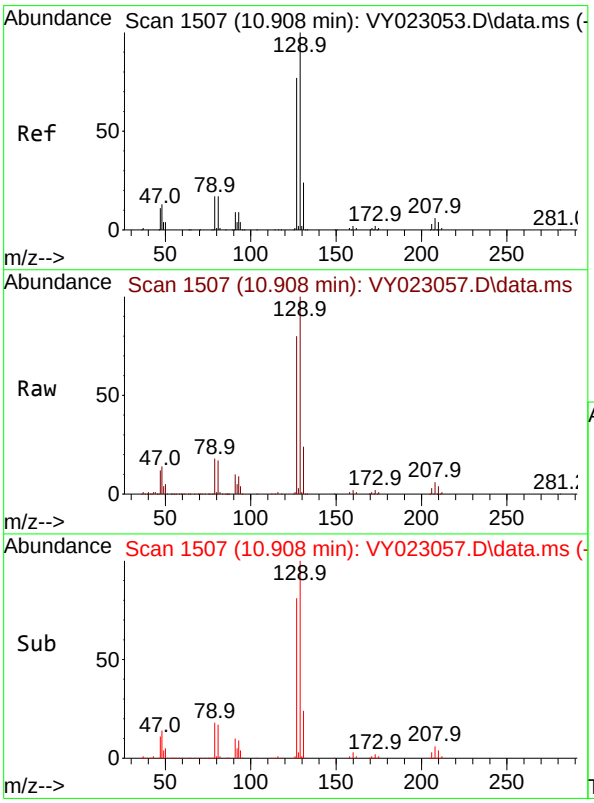

#59
2-Hexanone
Concen: 244.812 ug/l
RT: 10.756 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion: 43 Resp: 551743

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 59.5 | 29.5 | 88.5 |

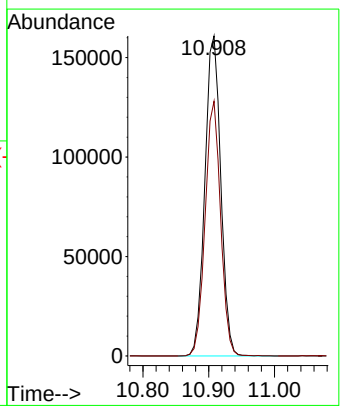


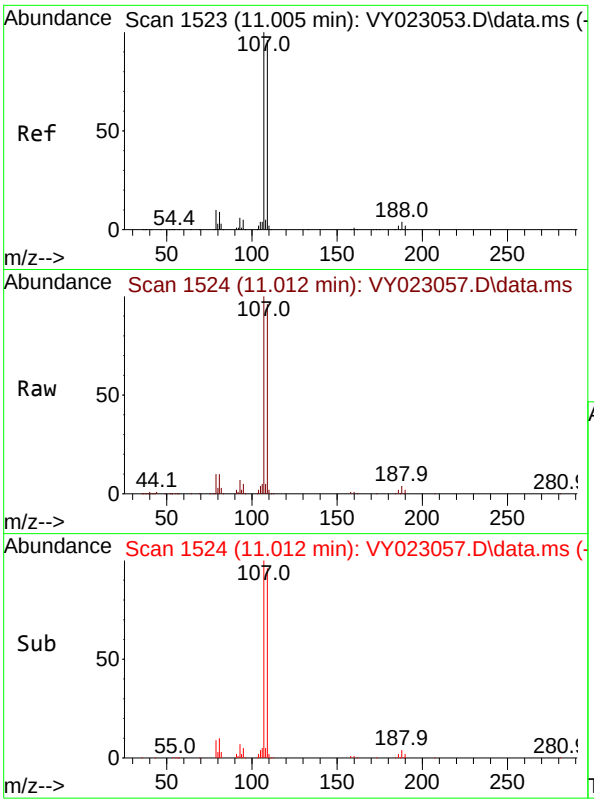




#60
Dibromochloromethane
Concen: 49.810 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:129 Resp: 270536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.5 | 38.5 | 115.5 |



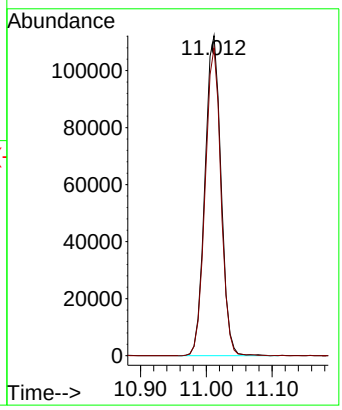


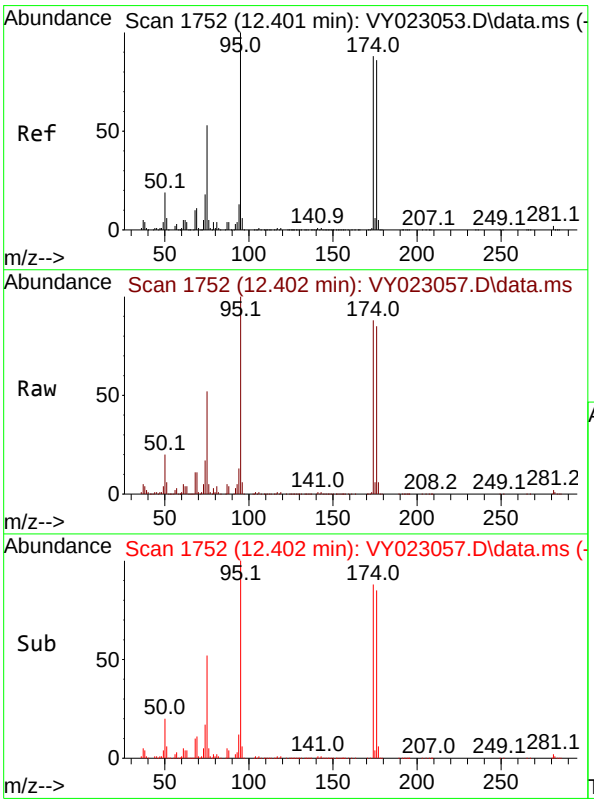

#61
1,2-Dibromoethane
Concen: 49.197 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion:107 Resp: 190334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.5 | 75.6 | 113.4 |

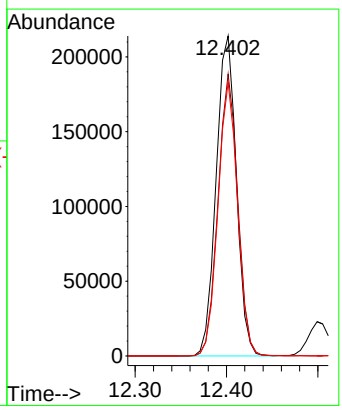


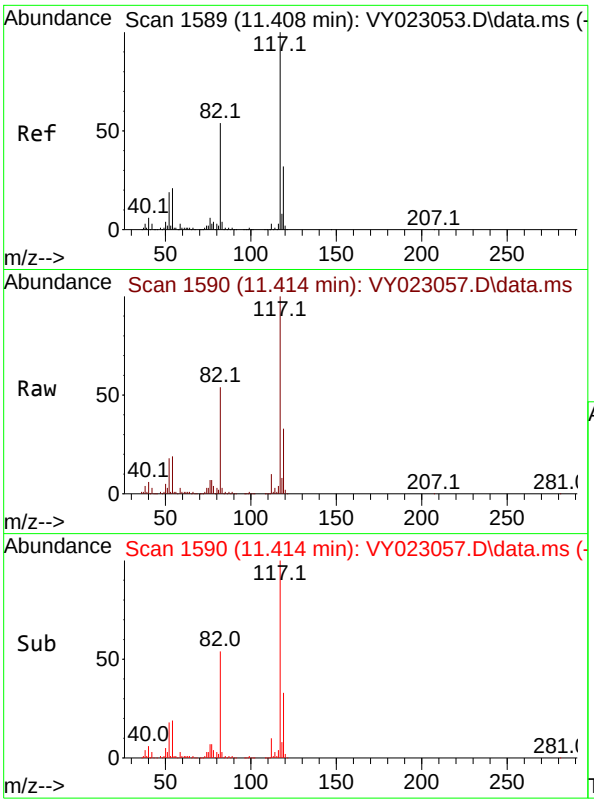




#62
4-Bromofluorobenzene
Concen: 51.500 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 95 Resp: 329022

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 86.3 | 0.0 | 171.6 |
| 176 | 82.9 | 0.0 | 167.6 |



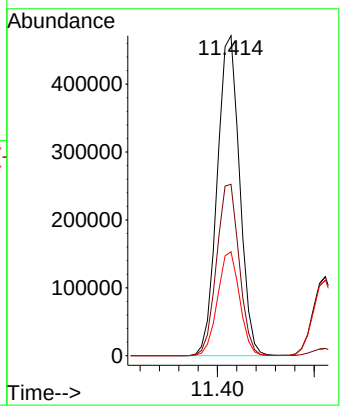


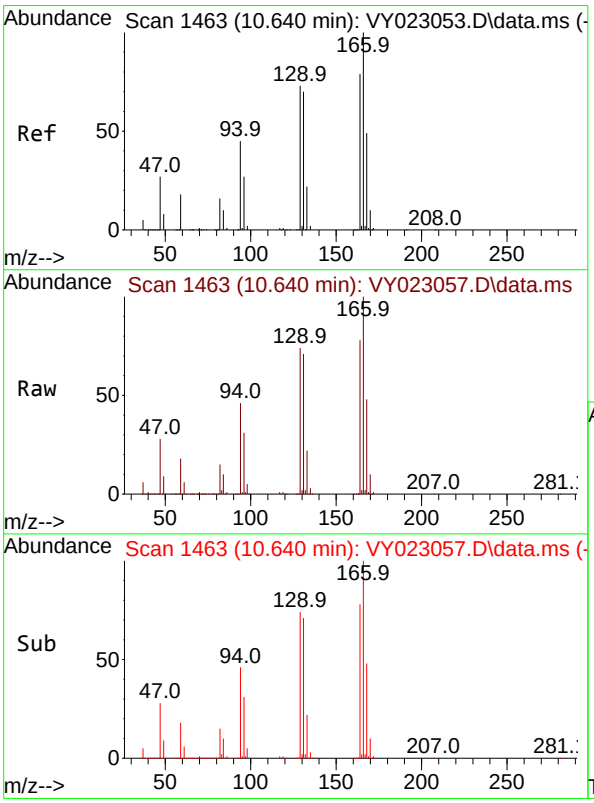

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion:117 Resp: 756555

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 53.6 | 43.4 | 65.0 |
| 119 | 32.5 | 25.6 | 38.4 |

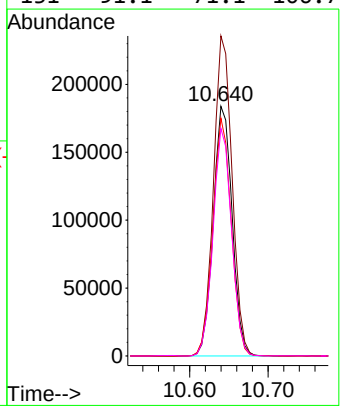


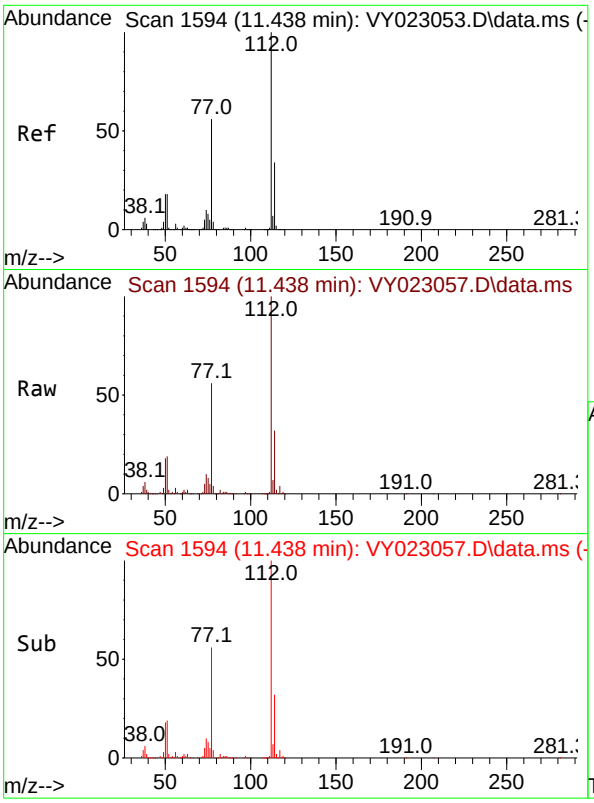




#64
Tetrachloroethene
Concen: 45.512 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:164 Resp: 307456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 128.2 | 101.1 | 151.7 |
| 129 | 95.3 | 74.0 | 111.0 |
| 131 | 91.1 | 71.1 | 106.7 |



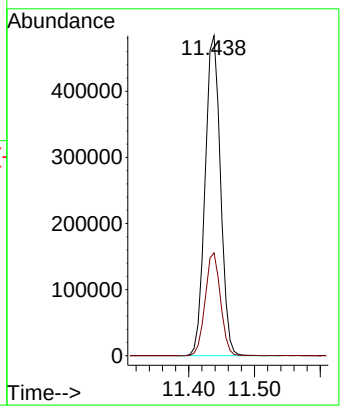


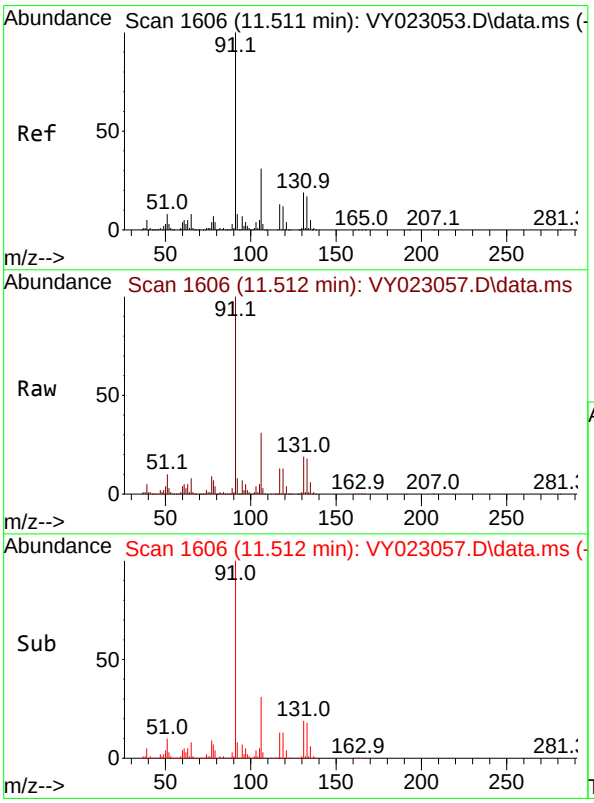

#65
Chlorobenzene
Concen: 48.275 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion:112 Resp: 787799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.2 | 27.0 | 40.4 |

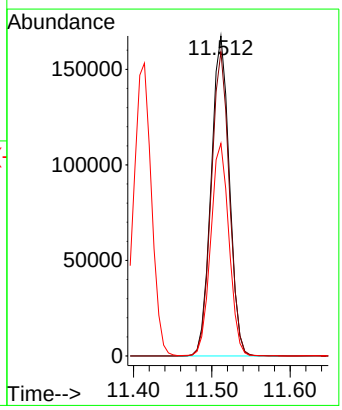


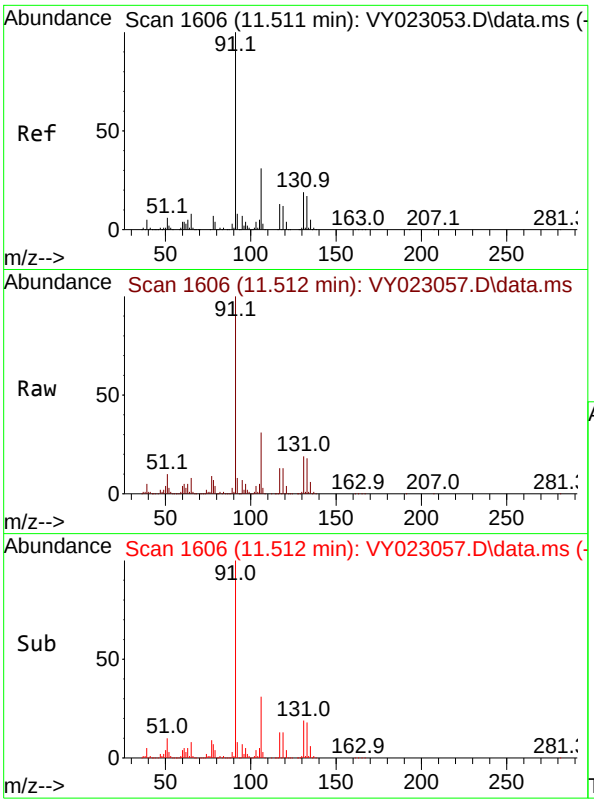




#66
1,1,1,2-Tetrachloroethane
Concen: 48.815 ug/l
RT: 11.512 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:131 Resp: 270360

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.4 | 46.9 | 140.6 |
| 119 | 66.7 | 33.2 | 99.6 |



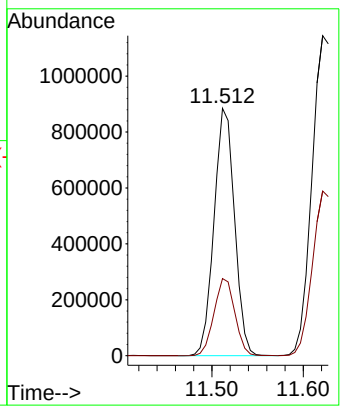


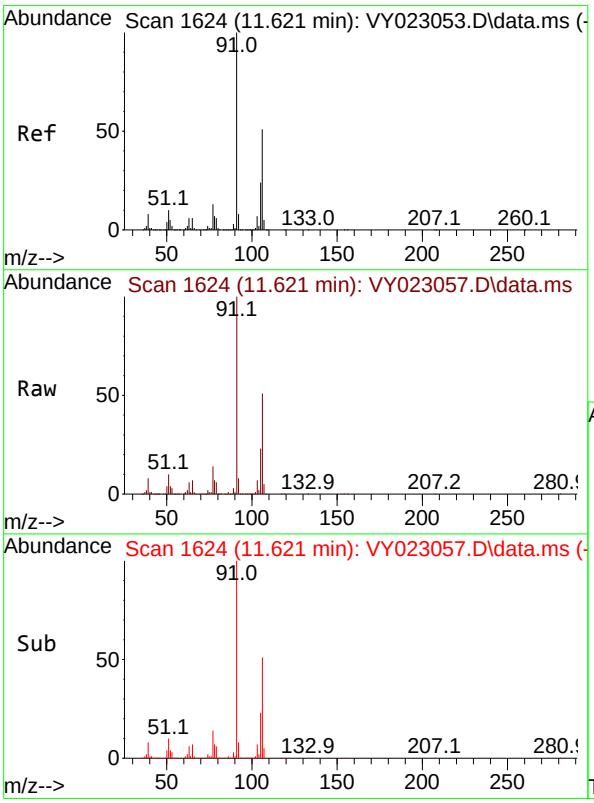

#67
Ethyl Benzene
Concen: 49.163 ug/l
RT: 11.512 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion: 91 Resp: 1380648

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.2 | 25.0 | 37.4 |

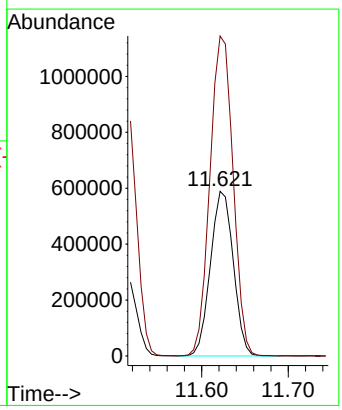


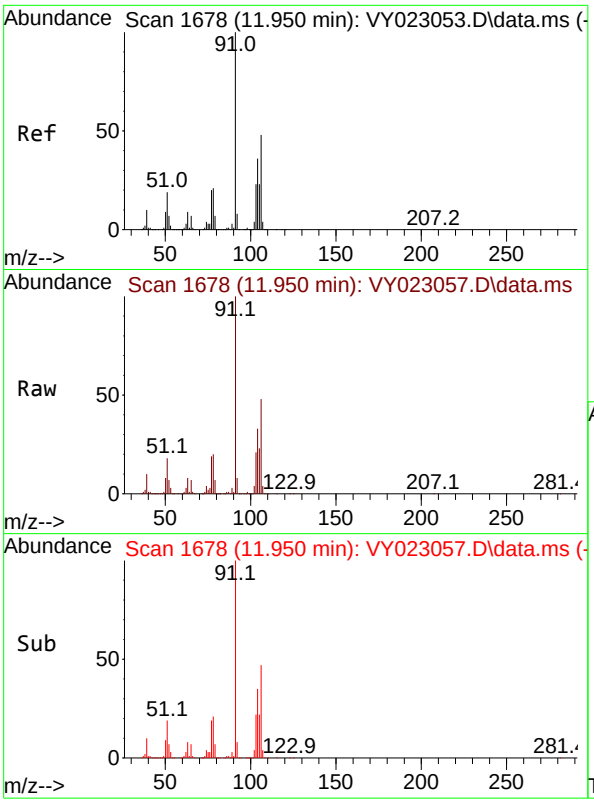




#68
m/p-Xylenes
Concen: 98.515 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:106 Resp: 1080541

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 197.0 | 158.6 | 238.0 |



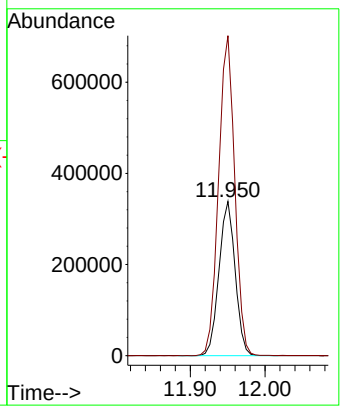


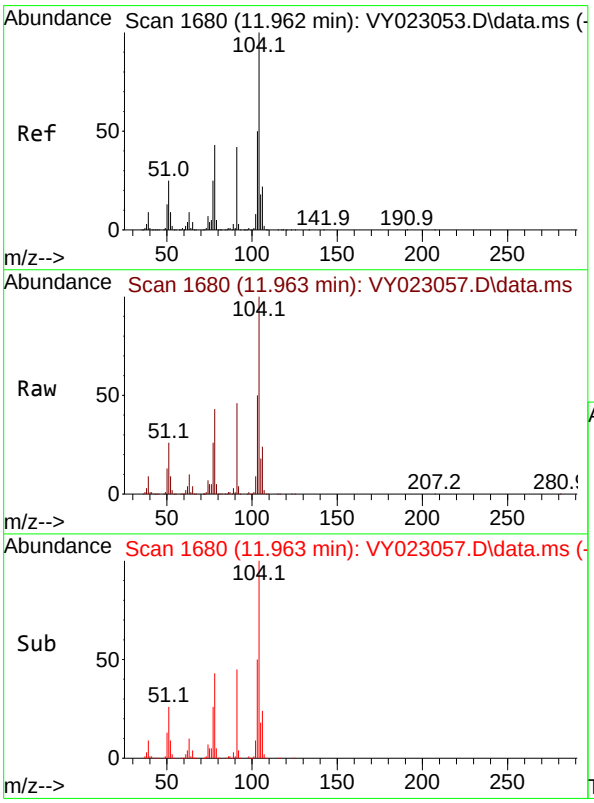

#69
o-Xylene
Concen: 49.645 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion:106 Resp: 509991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 207.4 | 103.2 | 309.4 |

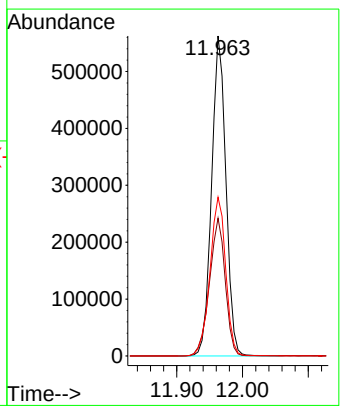


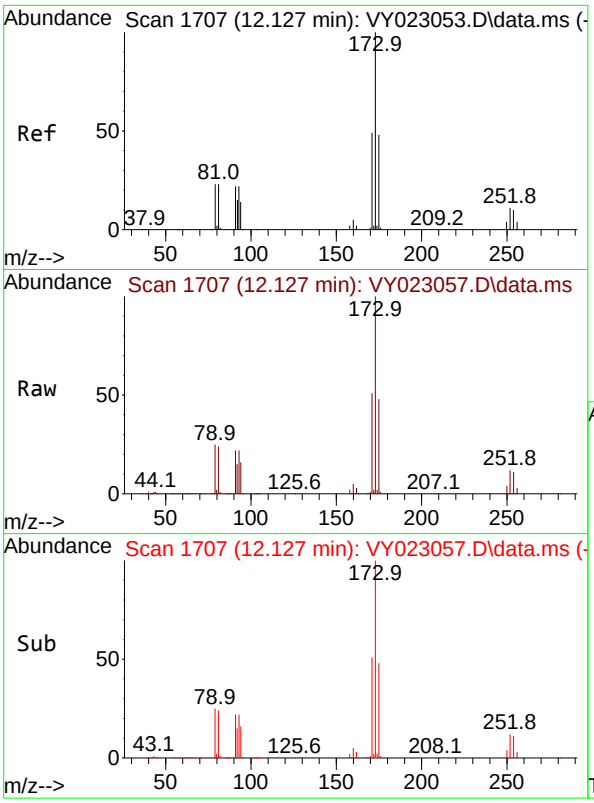




#70
Styrene
Concen: 50.733 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:104 Resp: 852310

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 47.3 | 38.5 | 57.7 |
| 103 | 54.6 | 43.7 | 65.5 |



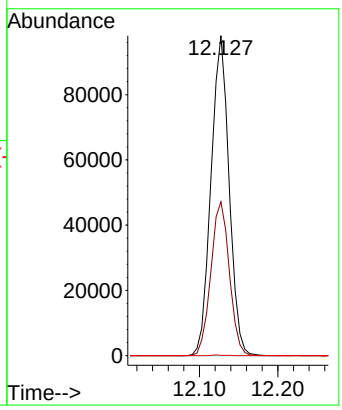


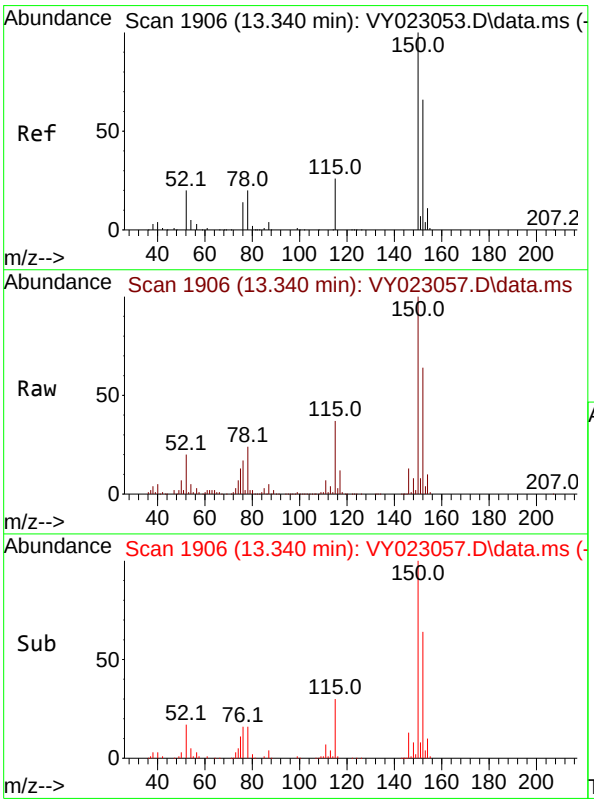

#71
Bromoform
Concen: 48.525 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion:173 Resp: 157073

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.1 | 23.9 | 71.7 |
| 254 | 0.2 | 0.1 | 0.1# |

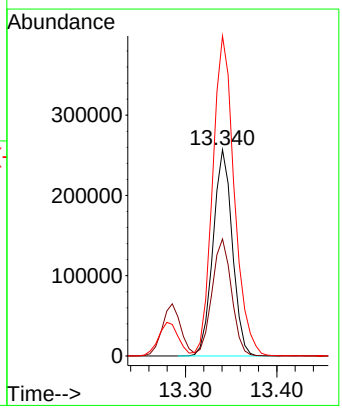


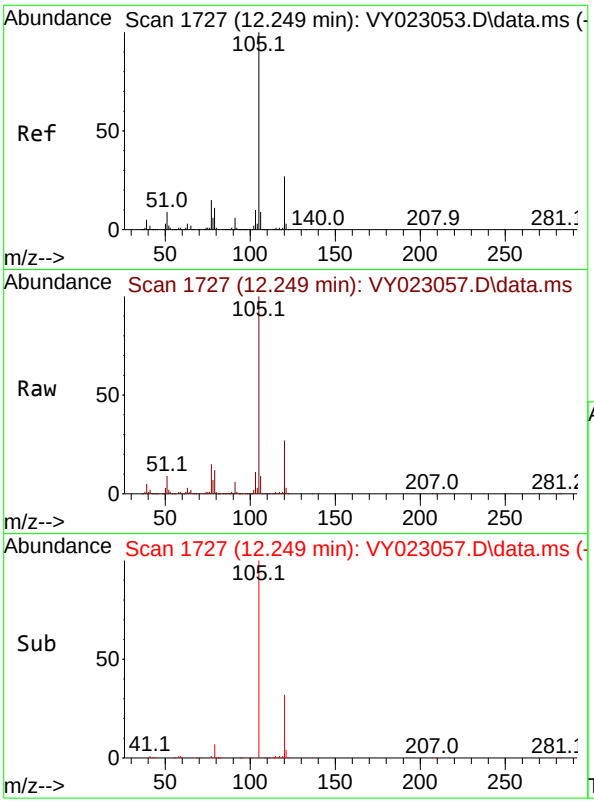




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:152 Resp: 376990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.5 | 28.2 | 84.6 |
| 150 | 174.1 | 0.0 | 348.0 |



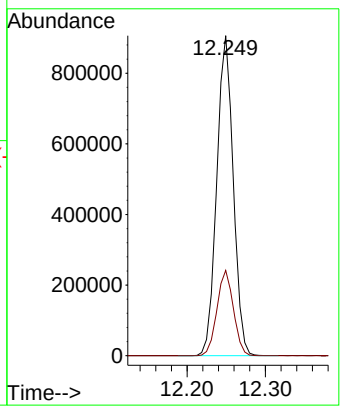


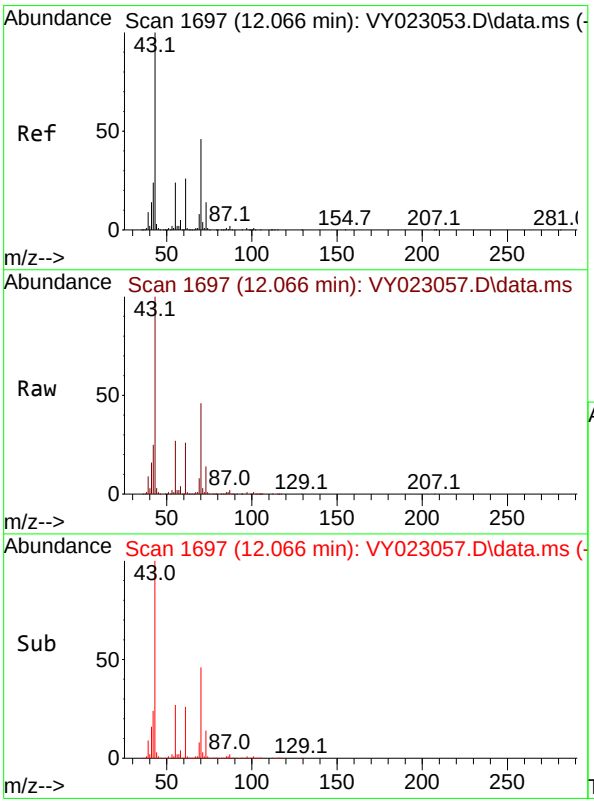

#73
Isopropylbenzene
Concen: 49.876 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion:105 Resp: 1327070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.6 | 13.4 | 40.2 |

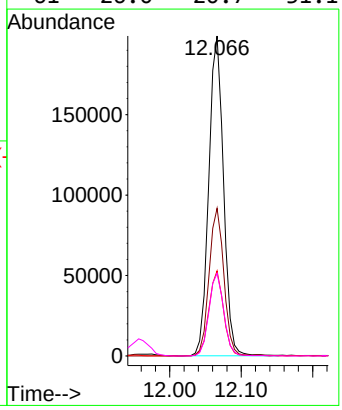


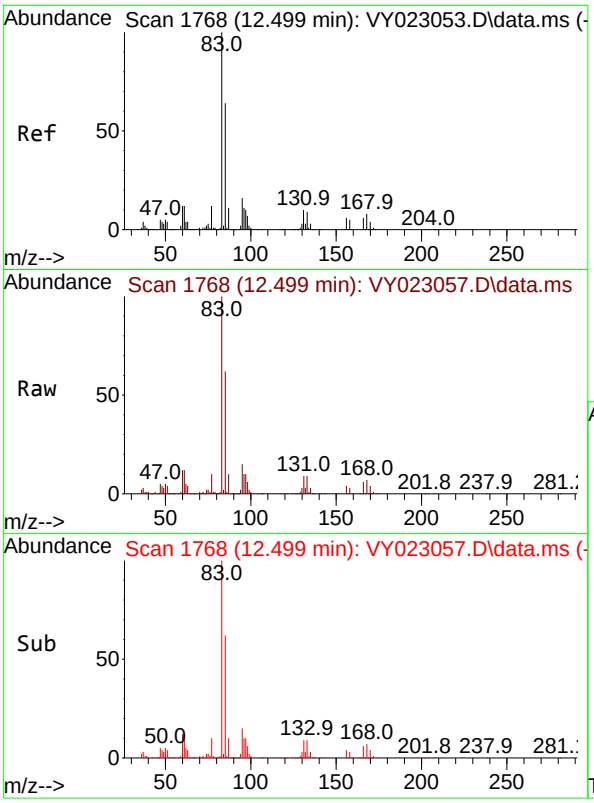




#74
N-amyl acetate
Concen: 50.529 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 43 Resp: 285118

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 46.5 | 37.5 | 56.3 |
| 55 | 26.2 | 20.7 | 31.1 |
| 61 | 26.0 | 20.7 | 31.1 |



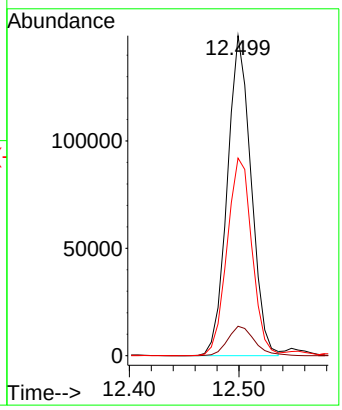


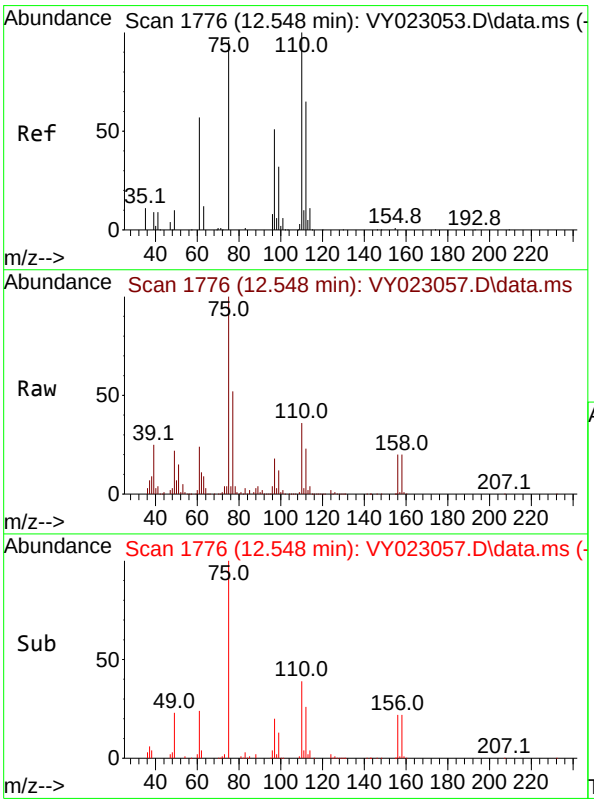

#75
1,1,2,2-Tetrachloroethane
Concen: 49.350 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion: 83 Resp: 224206

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.3 | 5.1 | 15.3 |
| 85 | 65.0 | 31.8 | 95.3 |

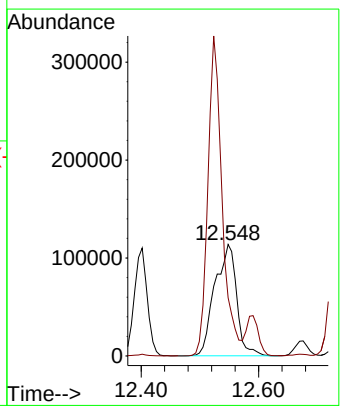


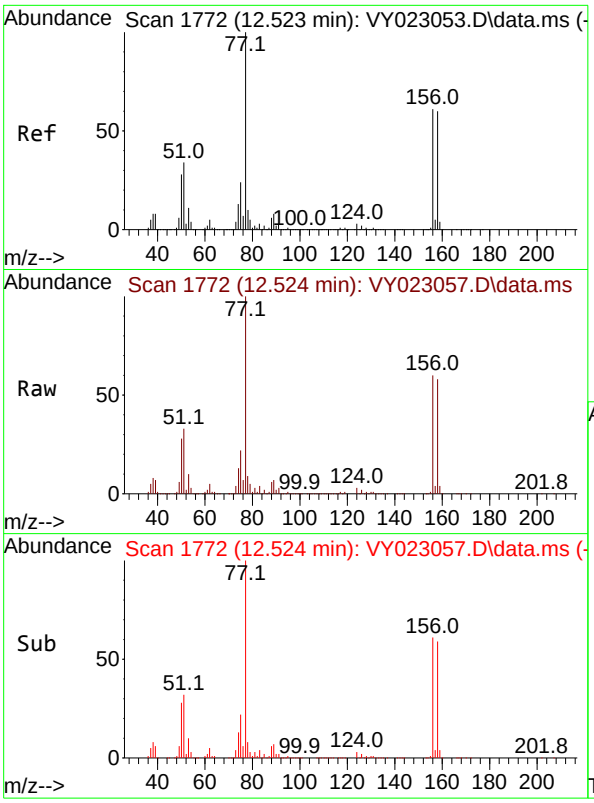




#76
1,2,3-Trichloropropane
Concen: 80.862 ug/l
RT: 12.548 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 75 Resp: 294203

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |



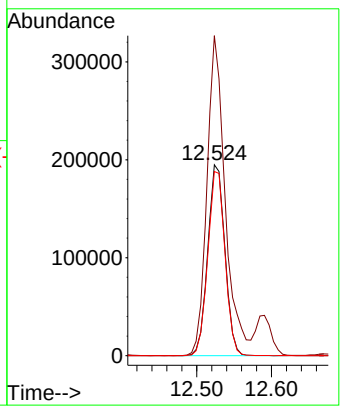


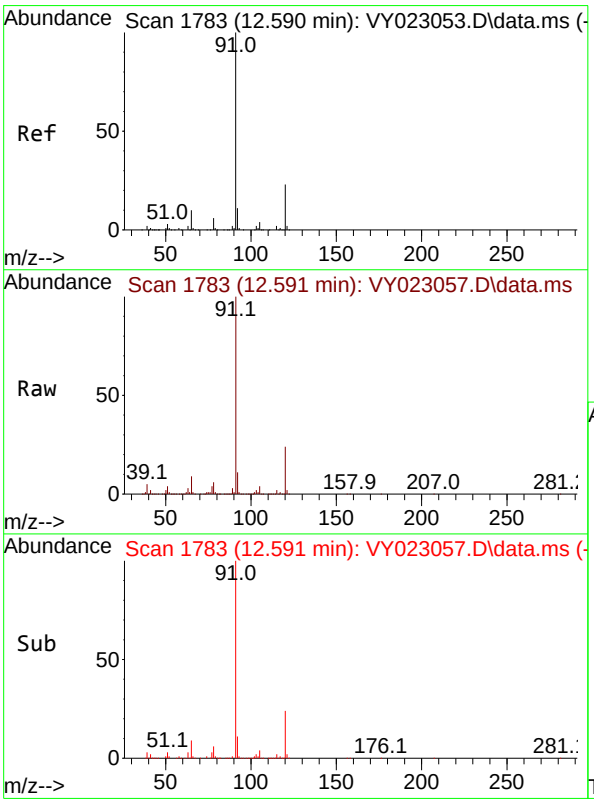

#77
Bromobenzene
Concen: 49.004 ug/l
RT: 12.524 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion:156 Resp: 311065

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 178.4 | 88.1 | 264.4 |
| 158 | 96.6 | 48.0 | 144.0 |

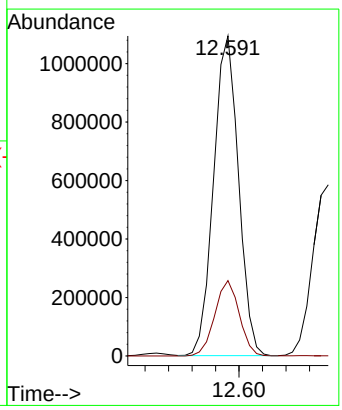


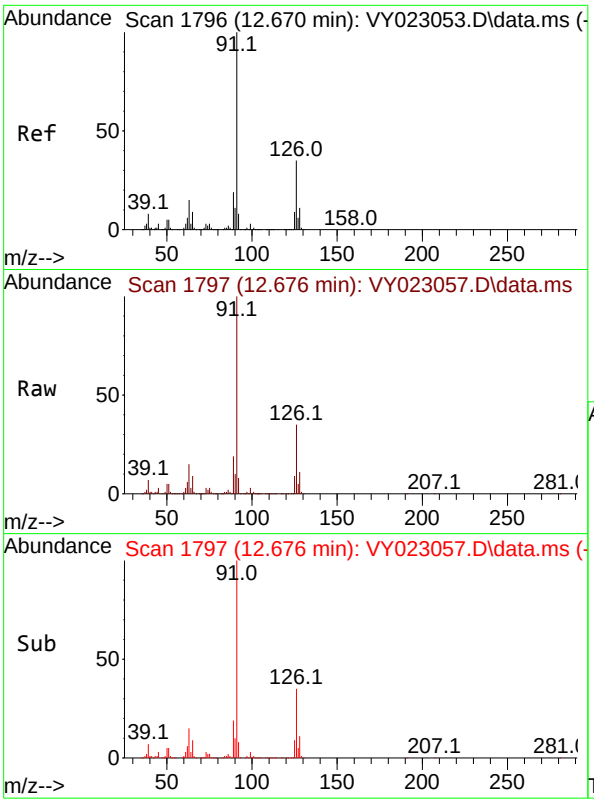




#78
n-propylbenzene
Concen: 50.853 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 91 Resp: 1610911

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 23.1 | 11.5 | 34.5 |



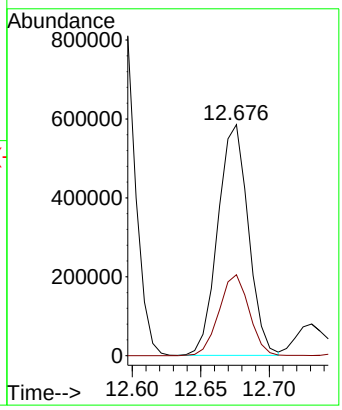


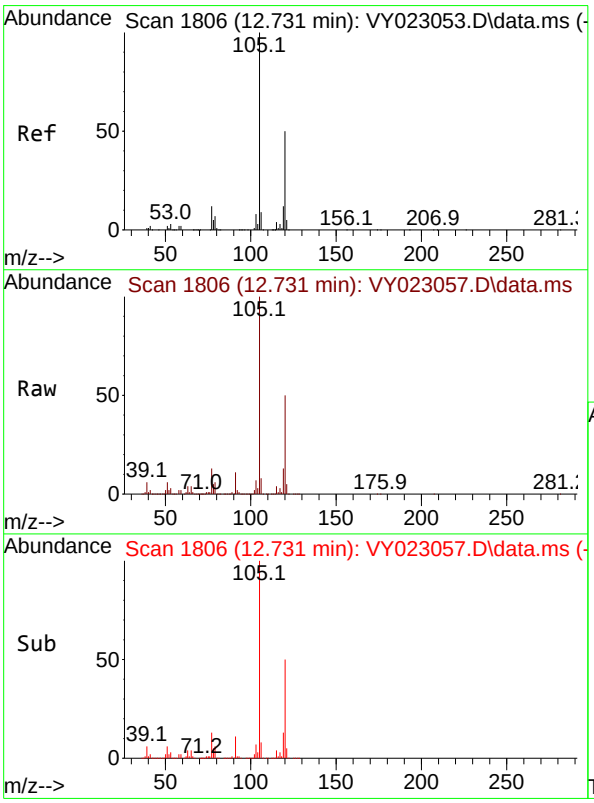

#79
2-Chlorotoluene
Concen: 49.898 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion: 91 Resp: 905657

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.7 | 17.4 | 52.3 |

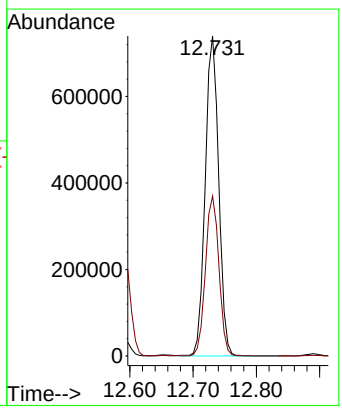


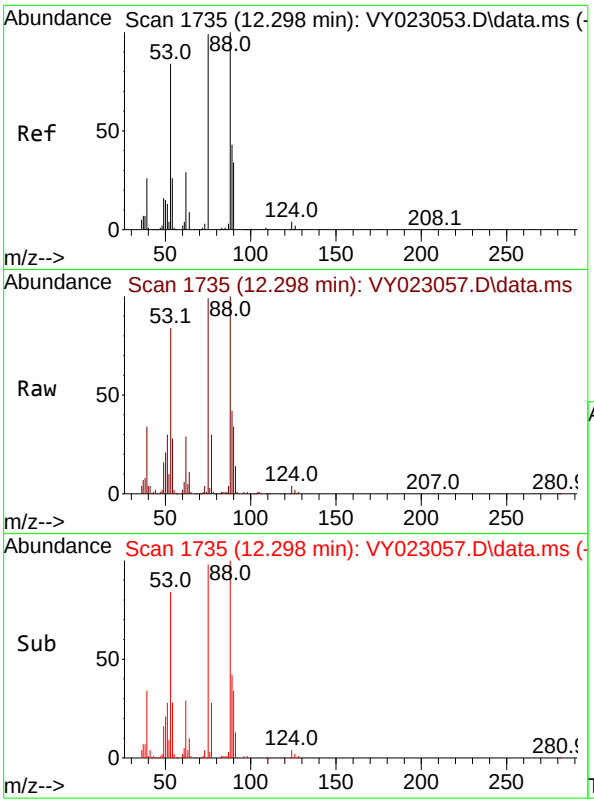




#80
1,3,5-Trimethylbenzene
Concen: 50.916 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:105 Resp: 1094902

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 50.1 | 24.8 | 74.4 |



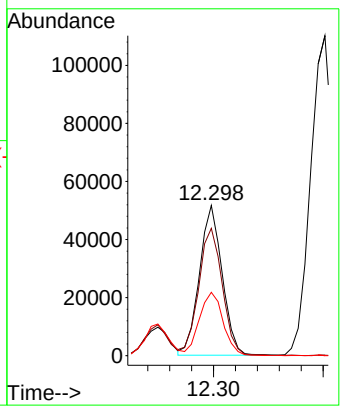


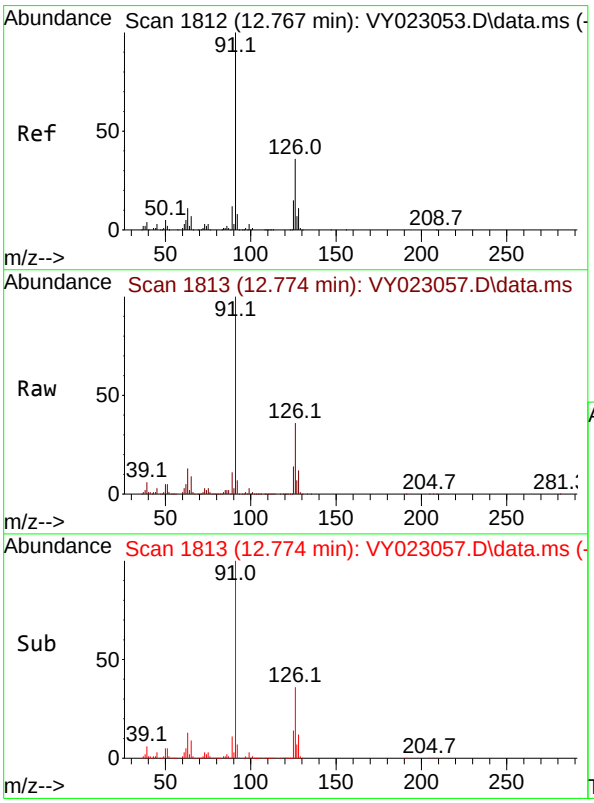

#81
trans-1,4-Dichloro-2-butene
Concen: 49.409 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion: 75 Resp: 74263

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 89.2 | 70.8 | 106.2 |
| 89 | 44.3 | 38.1 | 57.1 |

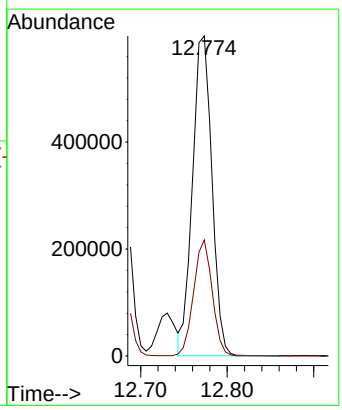


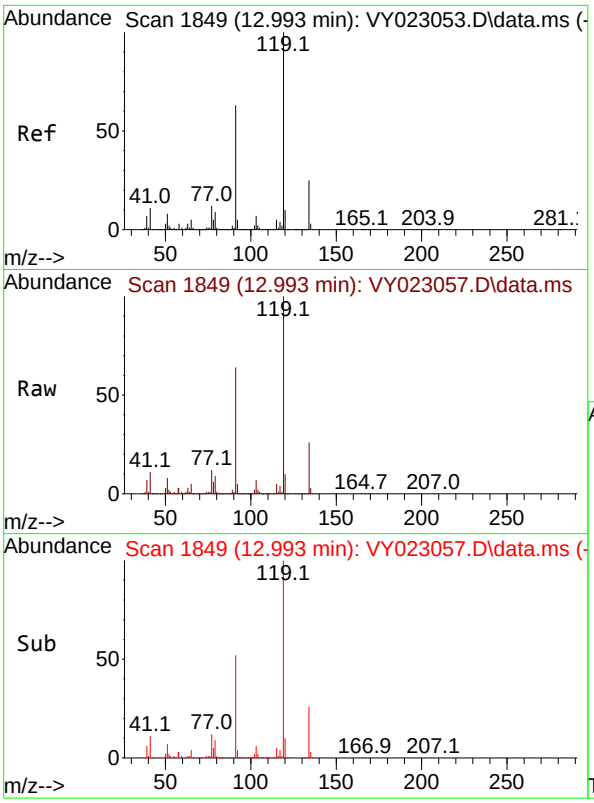




#82
4-Chlorotoluene
Concen: 49.505 ug/l
RT: 12.774 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 91 Resp: 932114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.7 | 17.3 | 52.0 |



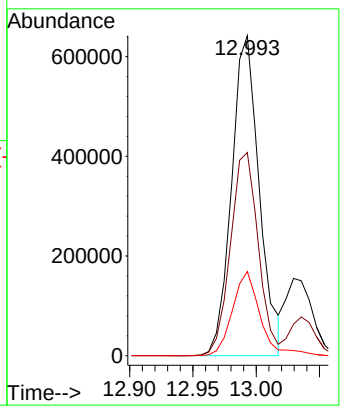


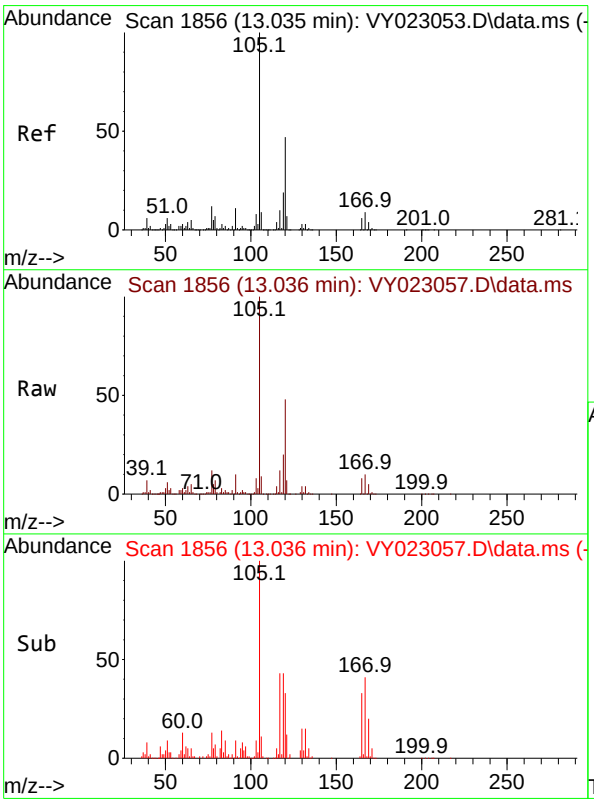

#83
tert-Butylbenzene
Concen: 50.443 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion:119 Resp: 979692

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 63.7 | 31.6 | 94.8 |
| 134 | 26.4 | 12.9 | 38.7 |

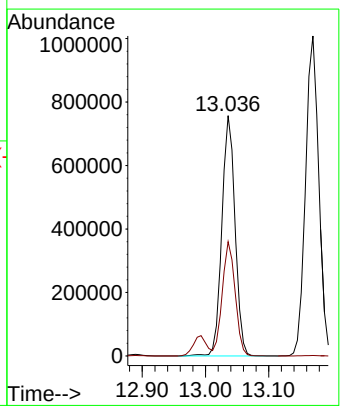


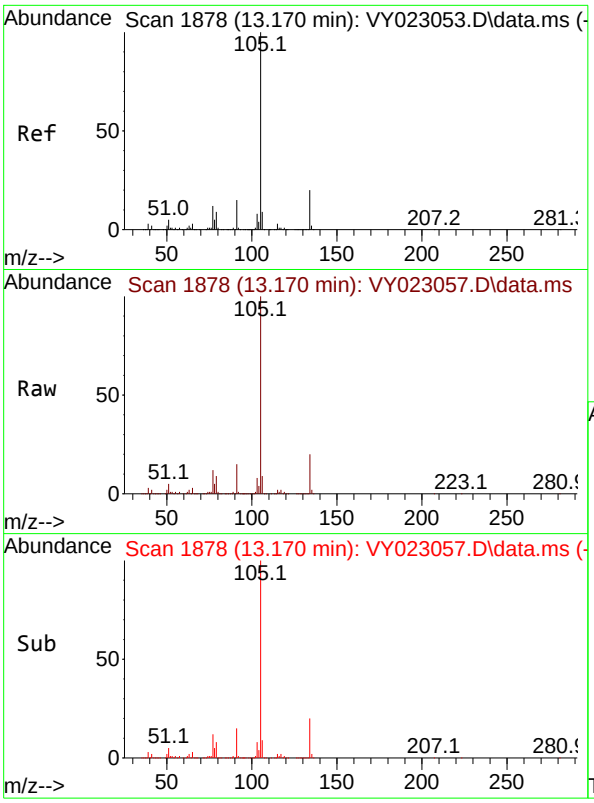




#84
1,2,4-Trimethylbenzene
Concen: 51.042 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:105 Resp: 1092616

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.3 | 23.0 | 69.0 |



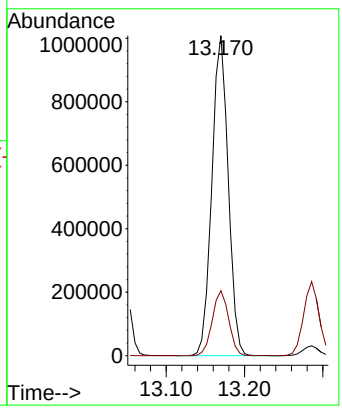


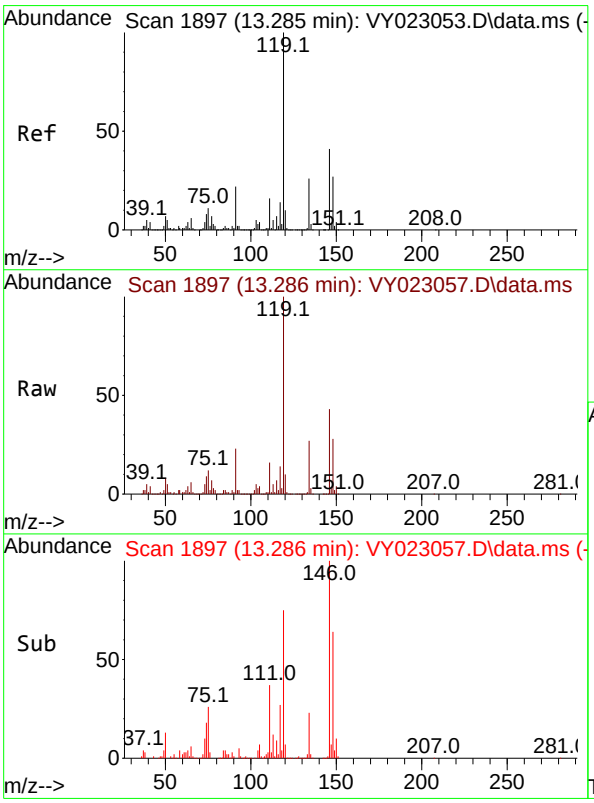

#85
sec-Butylbenzene
Concen: 51.154 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion:105 Resp: 1459437

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.4 | 10.2 | 30.4 |

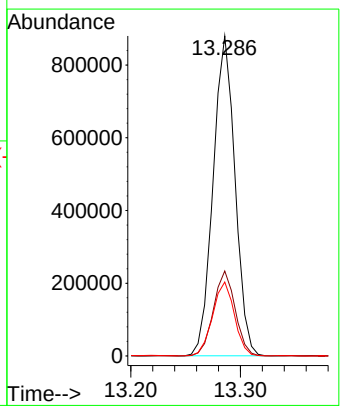


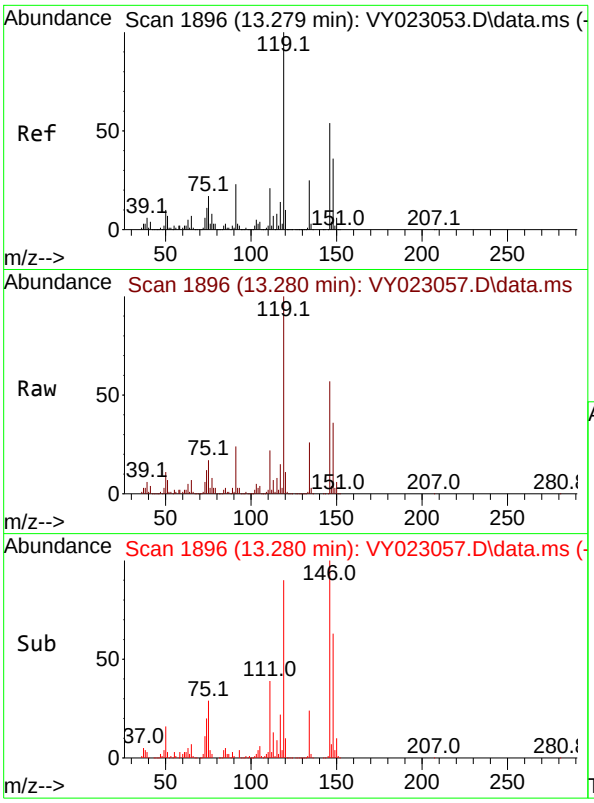




#86
p-Isopropyltoluene
Concen: 51.639 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:119 Resp: 1222900

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.3 | 13.2 | 39.6 |
| 91 | 22.9 | 11.3 | 33.8 |



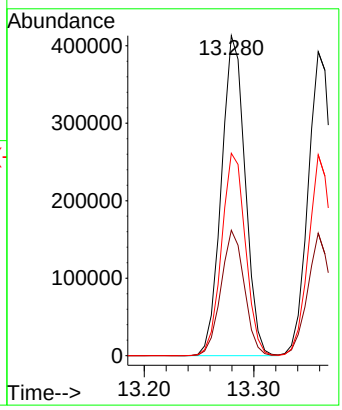


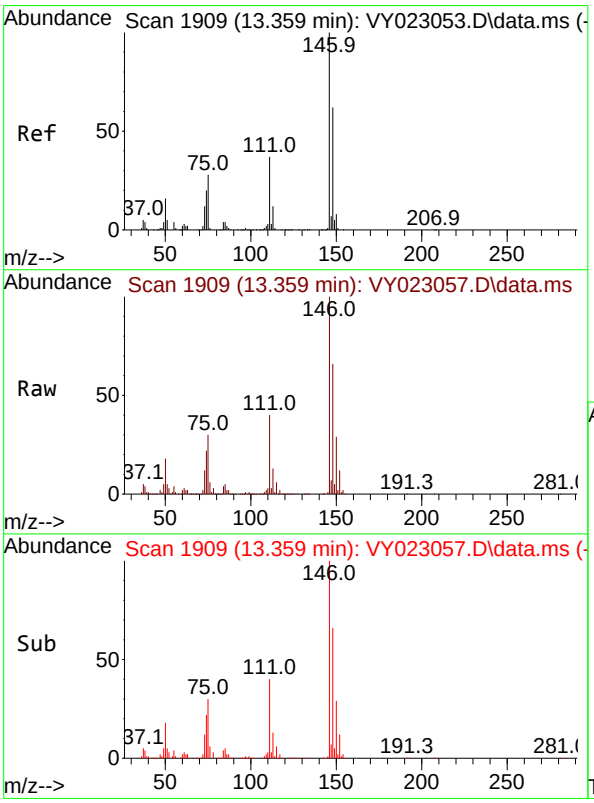

#87
1,3-Dichlorobenzene
Concen: 49.639 ug/l
RT: 13.280 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion:146 Resp: 621371

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.5 | 19.6 | 58.7 |
| 148 | 63.5 | 32.5 | 97.5 |

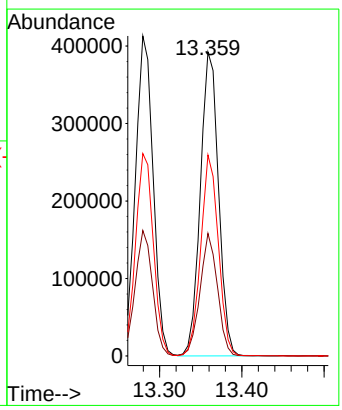


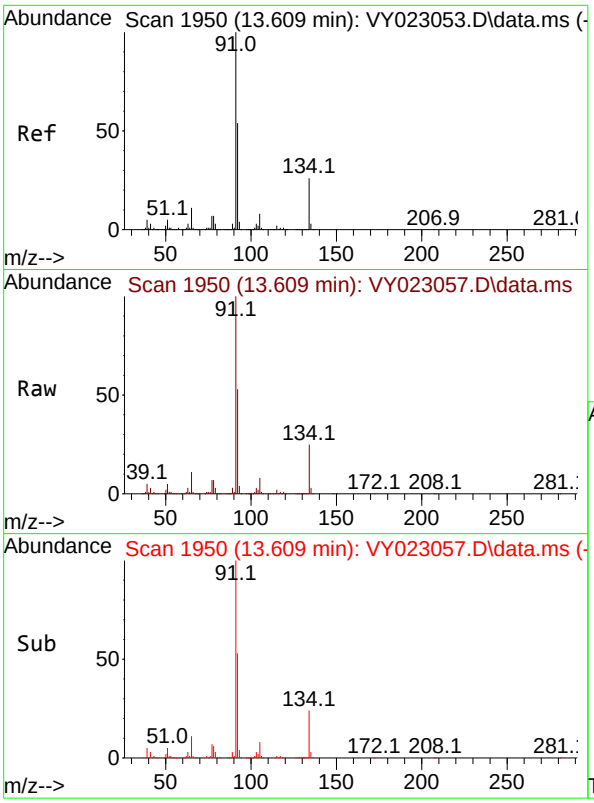




#88
1,4-Dichlorobenzene
Concen: 48.514 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:146 Resp: 602429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.6 | 19.1 | 57.1 |
| 148 | 64.1 | 31.6 | 94.7 |



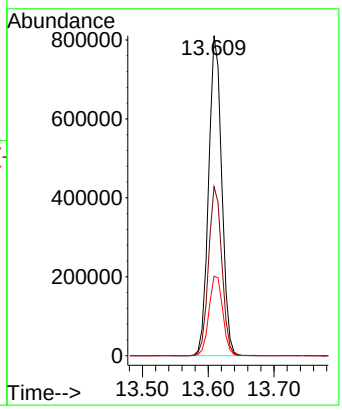


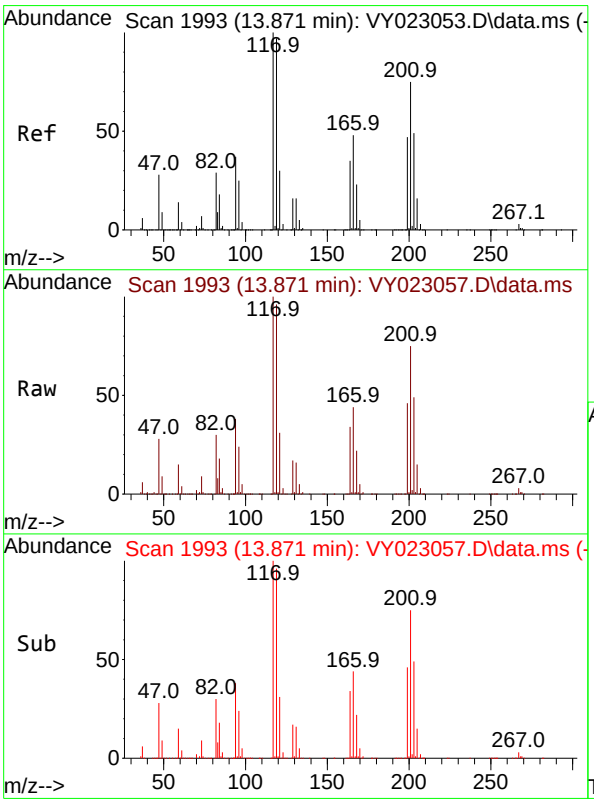

#89
n-Butylbenzene
Concen: 51.594 ug/l
RT: 13.609 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion: 91 Resp: 1122189

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.7 | 26.9 | 80.7 |
| 134 | 26.2 | 13.2 | 39.5 |

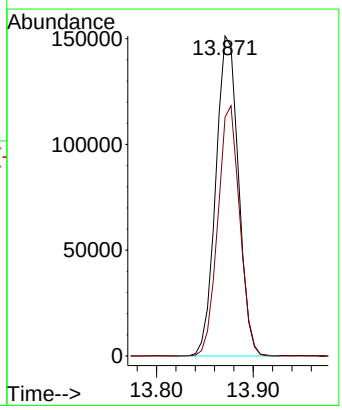


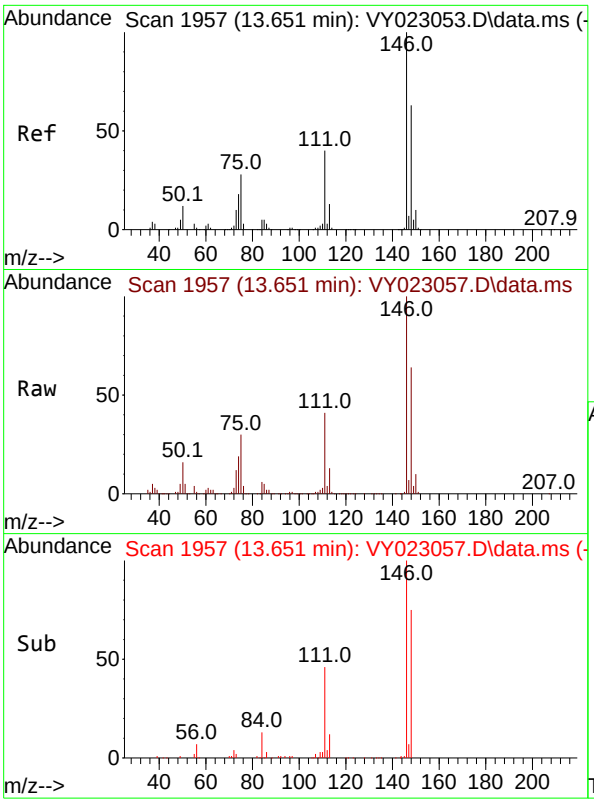




#90
Hexachloroethane
Concen: 50.617 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:117 Resp: 245386

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 75.7 | 38.4 | 115.1 |



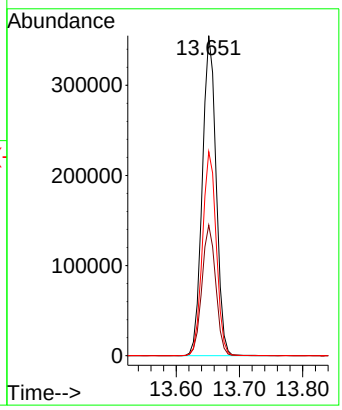


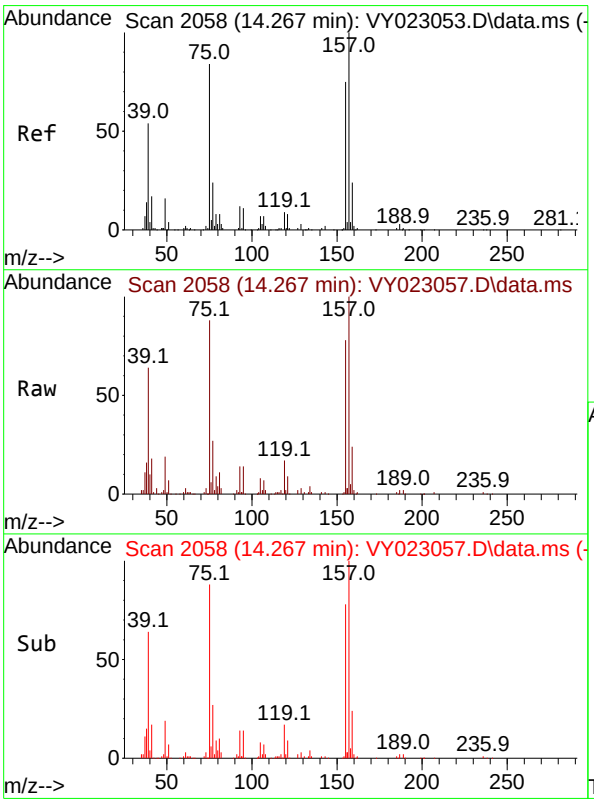

#91
1,2-Dichlorobenzene
Concen: 49.234 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion:146 Resp: 540506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.7 | 20.3 | 60.8 |
| 148 | 63.5 | 32.2 | 96.6 |

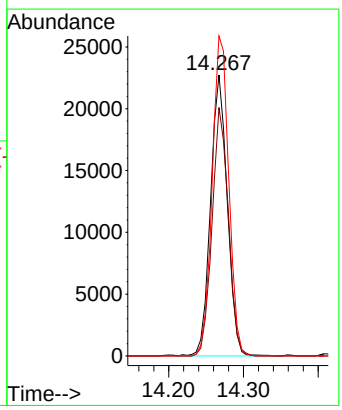


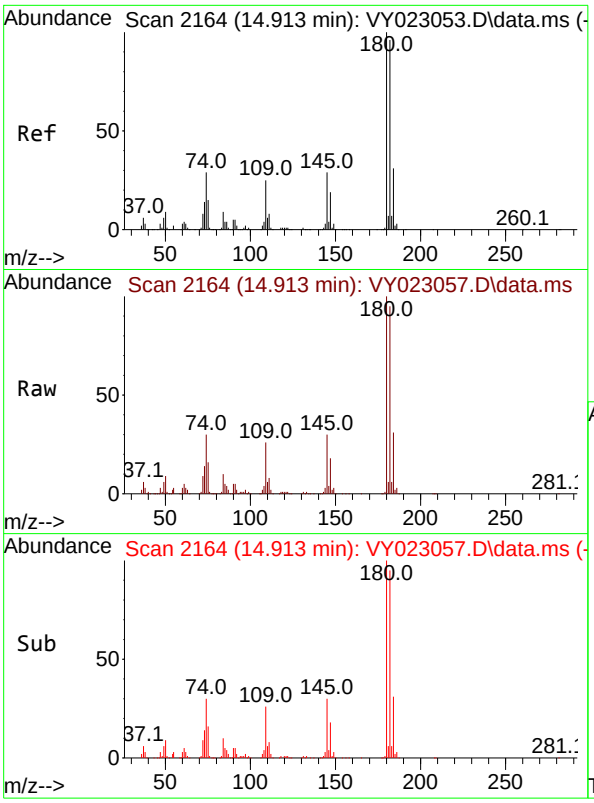




#92
1,2-Dibromo-3-Chloropropane
Concen: 50.085 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion: 75 Resp: 35428

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 86.0 | 43.9 | 131.6 |
| 157 | 112.9 | 57.2 | 171.6 |



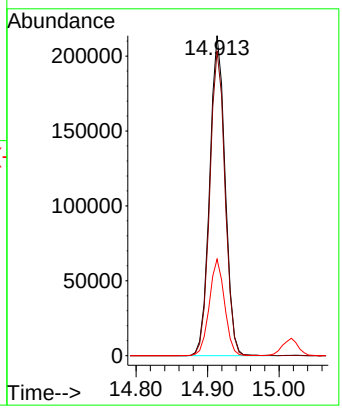


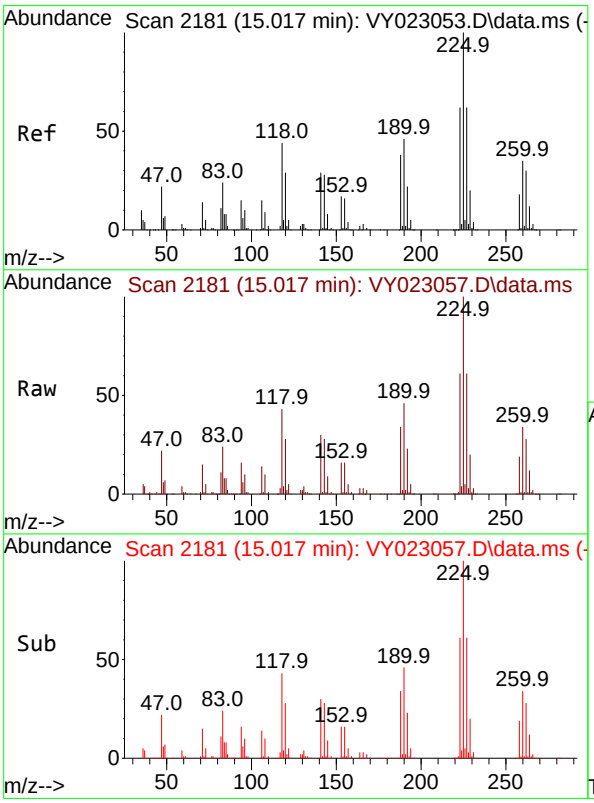

#93
1,2,4-Trichlorobenzene
Concen: 49.363 ug/l
RT: 14.913 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion:180 Resp: 320472

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.2 | 46.8 | 140.4 |
| 145 | 29.8 | 14.4 | 43.4 |

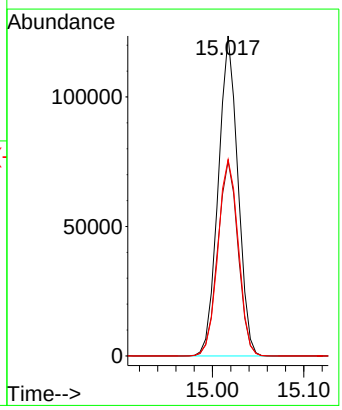


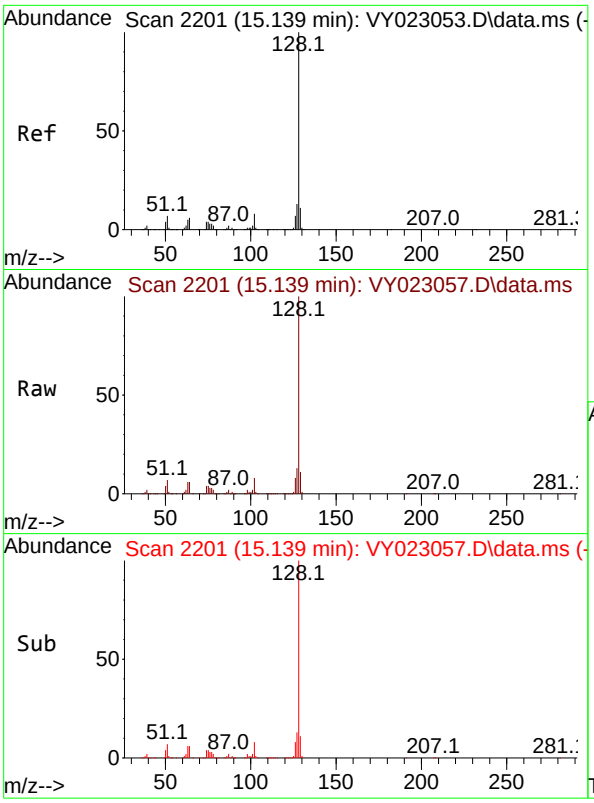




#94
Hexachlorobutadiene
Concen: 48.344 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:225 Resp: 184430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.8 | 31.3 | 93.8 |
| 227 | 63.8 | 31.5 | 94.5 |



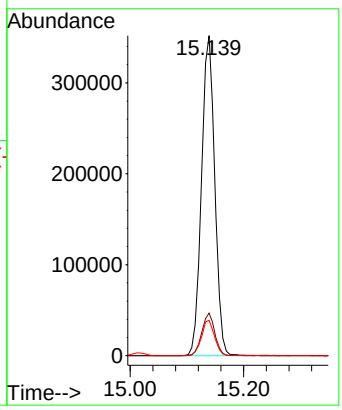


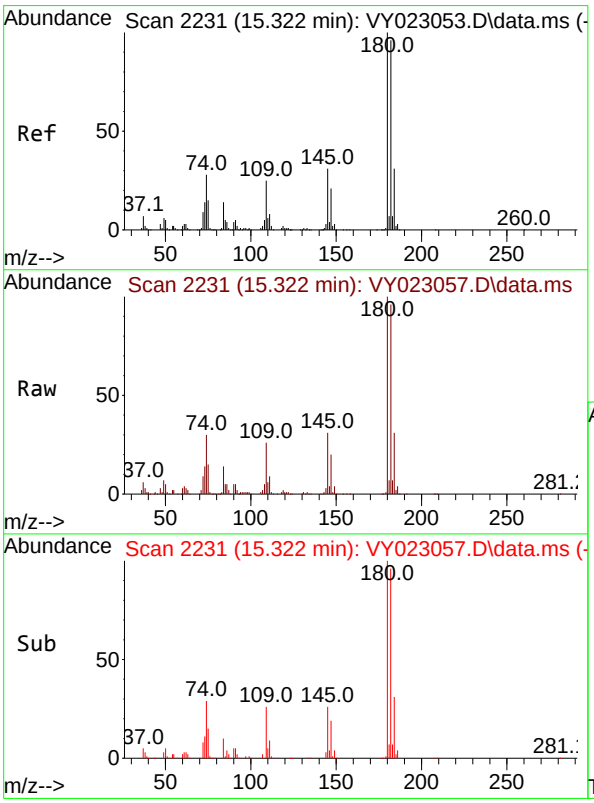

#95
Naphthalene
Concen: 51.623 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY081225

Tgt Ion:128 Resp: 571480

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.0 | 10.4 | 15.6 |
| 129 | 10.9 | 9.0 | 13.4 |

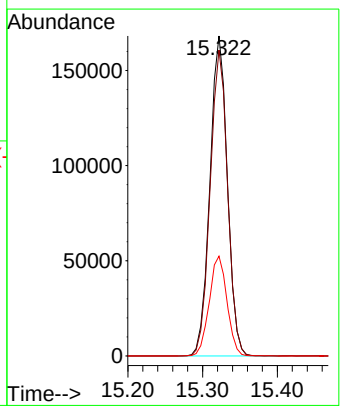



#96
1,2,3-Trichlorobenzene
Concen: 48.735 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023057.D
Acq: 12 Aug 2025 17:53

Tgt Ion:180 Resp: 272638

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.6 | 47.9 | 143.7 |
| 145 | 31.7 | 15.9 | 47.7 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023059.D
Acq On : 13 Aug 2025 09:37
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Quant Time: Aug 14 01:19:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.701 | 168 | 535817 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.609 | 114 | 845865 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 741859 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 361154 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.055 | 65 | 254983 | 49.931 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 99.860% | | | |
| 35) Dibromofluoromethane | 7.628 | 113 | 254219 | 50.227 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 100.460% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 1014903 | 51.328 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 102.660% | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 318073 | 50.020 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 100.040% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.861 | 85 | 179347 | 41.006 | ug/l | 97 |
| 3) Chloromethane | 2.068 | 50 | 331973 | 46.863 | ug/l | 99 |
| 4) Vinyl Chloride | 2.202 | 62 | 422026 | 48.195 | ug/l | 99 |
| 5) Bromomethane | 2.592 | 94 | 308334 | 47.148 | ug/l | 97 |
| 6) Chloroethane | 2.732 | 64 | 286888 | 49.279 | ug/l | 100 |
| 7) Trichlorofluoromethane | 3.049 | 101 | 505891 | 47.512 | ug/l | 98 |
| 8) Diethyl Ether | 3.452 | 74 | 128306 | 45.547 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 3.811 | 101 | 249222 | 47.444 | ug/l | 99 |
| 10) Methyl Iodide | 3.994 | 142 | 285188 | 50.312 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.860 | 59 | 73451 | 209.916 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 3.781 | 96 | 245840 | 47.613 | ug/l | 99 |
| 13) Acrolein | 3.647 | 56 | 106236 | 207.313 | ug/l | 98 |
| 14) Allyl chloride | 4.378 | 41 | 367684 | 48.395 | ug/l | 99 |
| 15) Acrylonitrile | 5.049 | 53 | 258896 | 226.059 | ug/l | 99 |
| 16) Acetone | 3.866 | 43 | 280197 | 253.265 | ug/l | 97 |
| 17) Carbon Disulfide | 4.098 | 76 | 802293 | 47.654 | ug/l | 100 |
| 18) Methyl Acetate | 4.378 | 43 | 137365 | 41.723 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.110 | 73 | 620651 | 46.387 | ug/l | 99 |
| 20) Methylene Chloride | 4.610 | 84 | 277983 | 48.260 | ug/l | 100 |
| 21) trans-1,2-Dichloroethene | 5.104 | 96 | 281759 | 48.558 | ug/l | 99 |
| 22) Diisopropyl ether | 6.018 | 45 | 804095 | 48.705 | ug/l | 98 |
| 23) Vinyl Acetate | 5.951 | 43 | 2205285 | 241.571 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 5.909 | 63 | 489342 | 48.480 | ug/l | 99 |
| 25) 2-Butanone | 6.890 | 43 | 345112 | 229.361 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 6.878 | 77 | 435291 | 49.978 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 6.884 | 96 | 319779 | 47.671 | ug/l | 98 |
| 28) Bromochloromethane | 7.238 | 49 | 197112 | 49.222 | ug/l | 98 |
| 29) Tetrahydrofuran | 7.256 | 42 | 209787 | 224.929 | ug/l | 99 |
| 30) Chloroform | 7.414 | 83 | 499613 | 47.994 | ug/l | 98 |
| 31) Cyclohexane | 7.695 | 56 | 440040 | 46.262 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 450437 | 48.765 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.829 | 75 | 365059 | 48.533 | ug/l | 99 |
| 37) Ethyl Acetate | 6.976 | 43 | 143345 | 45.366 | ug/l | 98 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 399023 | 48.841 | ug/l | 97 |
| 39) Methylcyclohexane | 9.103 | 83 | 486544 | 49.119 | ug/l | 98 |
| 40) Benzene | 8.079 | 78 | 1128264 | 48.666 | ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023059.D
Acq On : 13 Aug 2025 09:37
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Quant Time: Aug 14 01:19:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.219 | 41 | 82958 | 45.492 ug/l | | 97 |
| 42) 1,2-Dichloroethane | 8.152 | 62 | 287233 | 47.637 ug/l | | 99 |
| 43) Isopropyl Acetate | 8.195 | 43 | 294919 | 46.179 ug/l | # | 85 |
| 44) Trichloroethene | 8.859 | 130 | 290876 | 48.551 ug/l | | 98 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 259199 | 48.591 ug/l | | 98 |
| 46) Dibromomethane | 9.225 | 93 | 147784 | 48.268 ug/l | | 96 |
| 47) Bromodichloromethane | 9.420 | 83 | 380333 | 48.276 ug/l | | 99 |
| 48) Methyl methacrylate | 9.219 | 41 | 139803 | 45.747 ug/l | | 97 |
| 49) 1,4-Dioxane | 9.225 | 88 | 32506 | 905.464 ug/l | | 94 |
| 51) 4-Methyl-2-Pentanone | 9.993 | 43 | 766289 | 232.613 ug/l | | 100 |
| 52) Toluene | 10.170 | 92 | 730616 | 49.619 ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 346881 | 48.623 ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 410557 | 48.667 ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 10.566 | 97 | 189812 | 46.330 ug/l | | 95 |
| 56) Ethyl methacrylate | 10.438 | 69 | 252654 | 48.194 ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 328997 | 47.351 ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 609788 | 246.593 ug/l | | 99 |
| 59) 2-Hexanone | 10.755 | 43 | 545617 | 243.235 ug/l | | 98 |
| 60) Dibromochloromethane | 10.908 | 129 | 253556 | 46.904 ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.011 | 107 | 180061 | 46.761 ug/l | | 99 |
| 64) Tetrachloroethene | 10.646 | 164 | 331676 | 50.070 ug/l | | 97 |
| 65) Chlorobenzene | 11.438 | 112 | 773624 | 48.346 ug/l | | 96 |
| 66) 1,1,1,2-Tetrachloroethane | 11.511 | 131 | 261298 | 48.113 ug/l | | 99 |
| 67) Ethyl Benzene | 11.517 | 91 | 1376524 | 49.987 ug/l | | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 1075458 | 99.994 ug/l | | 99 |
| 69) o-Xylene | 11.950 | 106 | 505296 | 50.162 ug/l | | 99 |
| 70) Styrene | 11.969 | 104 | 833474 | 50.595 ug/l | | 100 |
| 71) Bromoform | 12.127 | 173 | 144602 | 45.557 ug/l | | 100 |
| 73) Isopropylbenzene | 12.249 | 105 | 1308324 | 51.327 ug/l | | 100 |
| 74) N-amyl acetate | 12.066 | 43 | 269858 | 49.922 ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 199792 | 45.905 ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 279690 | 80.243 ug/l | # | 100 |
| 77) Bromobenzene | 12.529 | 156 | 296723 | 48.794 ug/l | | 98 |
| 78) n-propylbenzene | 12.590 | 91 | 1579912 | 52.061 ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 881616 | 50.703 ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.731 | 105 | 1062229 | 51.563 ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.298 | 75 | 69624 | 48.354 ug/l | | 98 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 913772 | 50.659 ug/l | | 100 |
| 83) tert-Butylbenzene | 12.993 | 119 | 950248 | 51.072 ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.041 | 105 | 1060687 | 51.723 ug/l | | 100 |
| 85) sec-Butylbenzene | 13.170 | 105 | 1414361 | 51.748 ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.285 | 119 | 1182656 | 52.130 ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 598001 | 49.866 ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 582375 | 48.956 ug/l | | 100 |
| 89) n-Butylbenzene | 13.615 | 91 | 1098867 | 52.737 ug/l | | 99 |
| 90) Hexachloroethane | 13.877 | 117 | 234252 | 50.439 ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 509973 | 48.490 ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 32155 | 47.451 ug/l | | 95 |
| 93) 1,2,4-Trichlorobenzene | 14.913 | 180 | 300082 | 48.250 ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.017 | 225 | 175599 | 48.048 ug/l | | 99 |
| 95) Naphthalene | 15.139 | 128 | 502833 | 47.413 ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.322 | 180 | 252008 | 47.023 ug/l | | 98 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023059.D
Acq On : 13 Aug 2025 09:37
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Quant Time: Aug 14 01:19:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

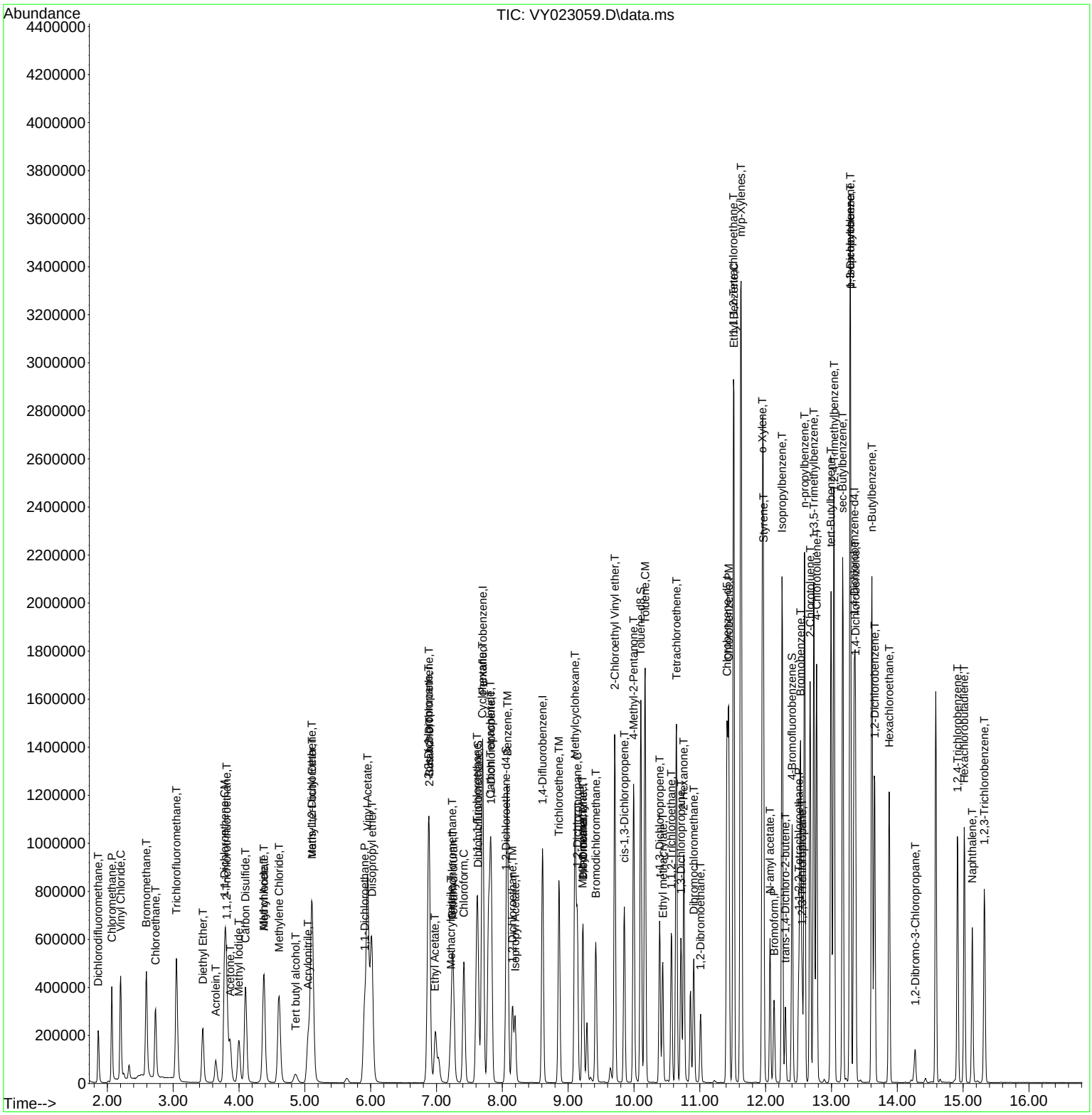
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

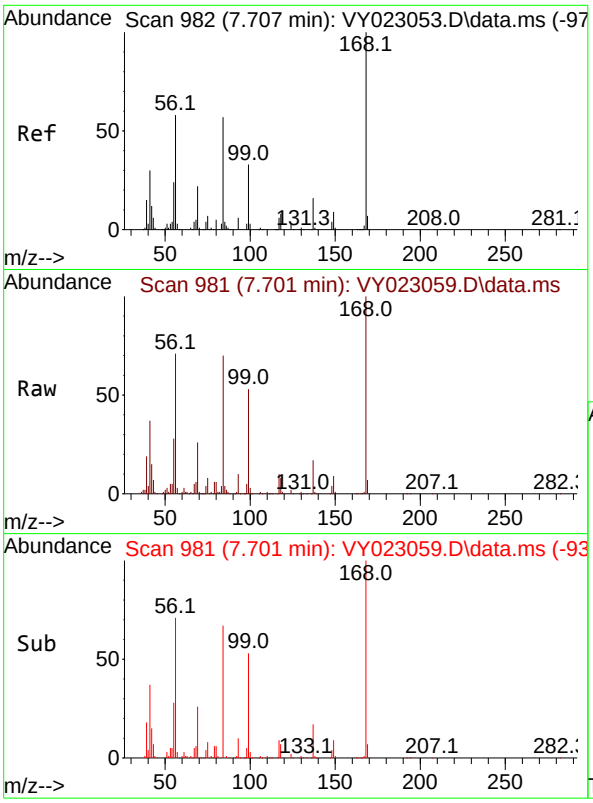
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023059.D
Acq On : 13 Aug 2025 09:37
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Quant Time: Aug 14 01:19:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



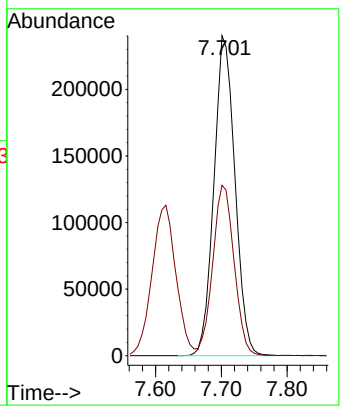


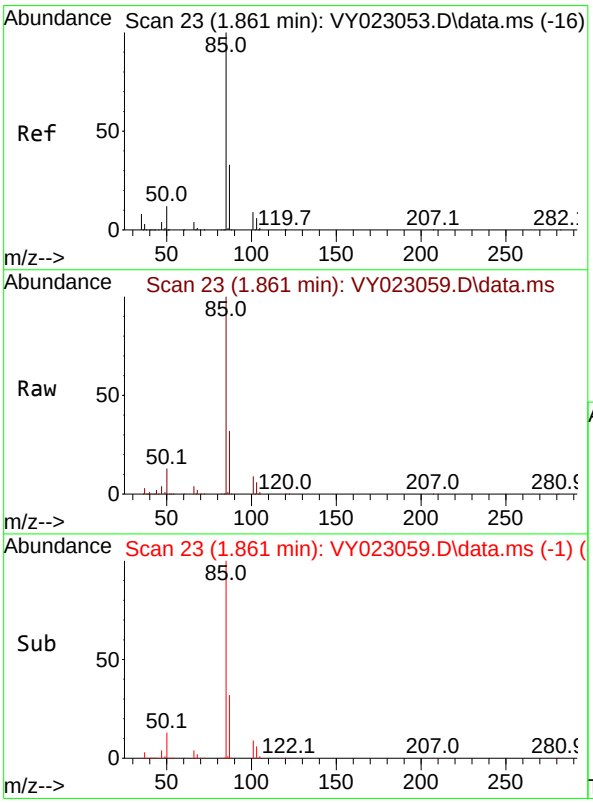

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:168 Resp: 535817

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 53.2 | 42.8 | 64.2 |

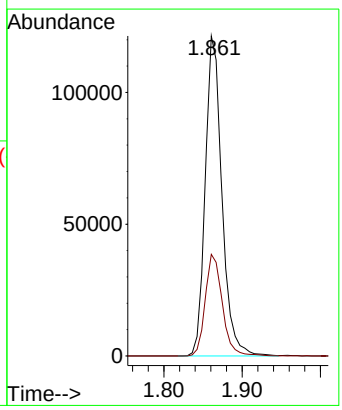


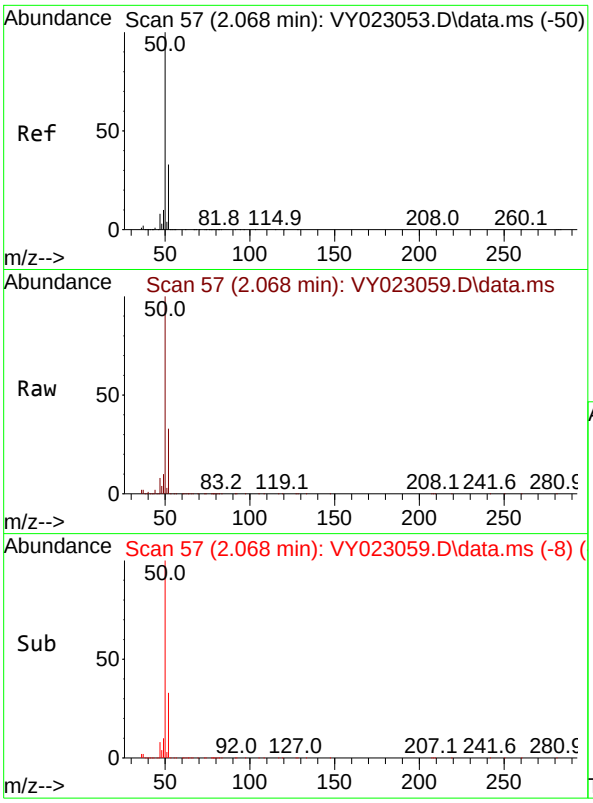




#2
Dichlorodifluoromethane
Concen: 41.006 ug/l
RT: 1.861 min Scan# 23
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 85 Resp: 179347

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.7 | 16.6 | 49.8 |



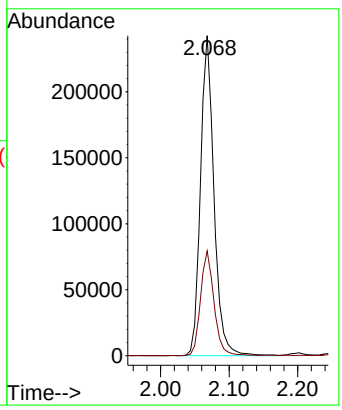


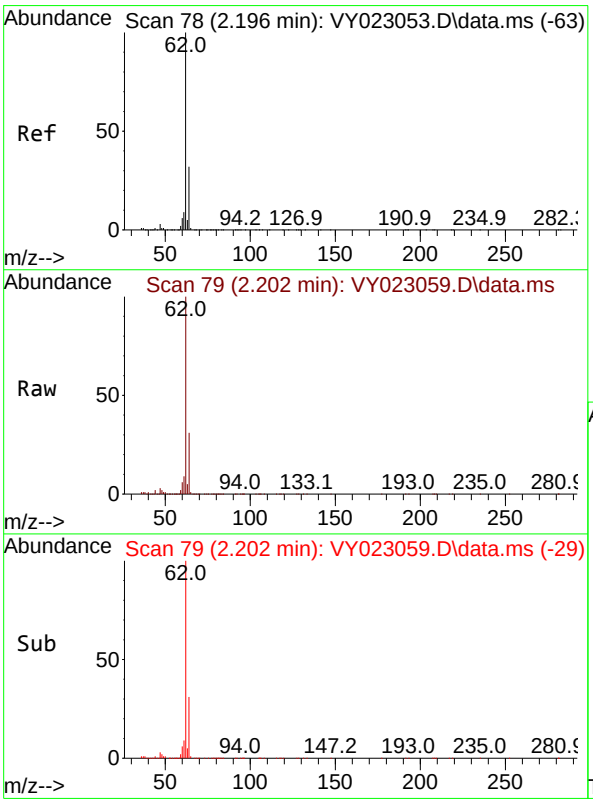

#3
Chloromethane
Concen: 46.863 ug/l
RT: 2.068 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 50 Resp: 331973

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.8 | 26.7 | 40.1 |

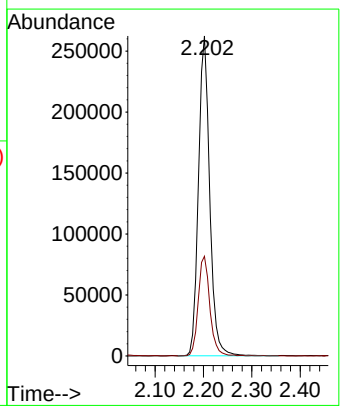


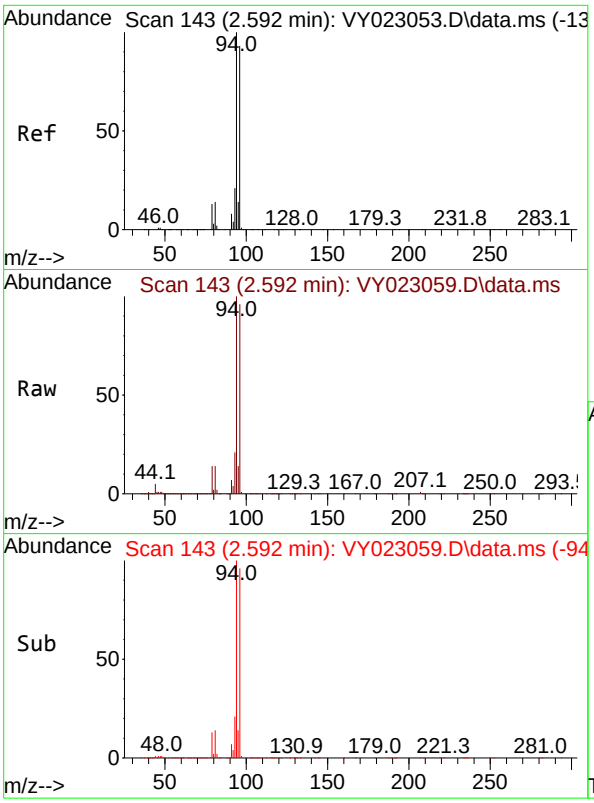




#4
Vinyl Chloride
Concen: 48.195 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 62 Resp: 422026

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.2 | 25.4 | 38.0 |



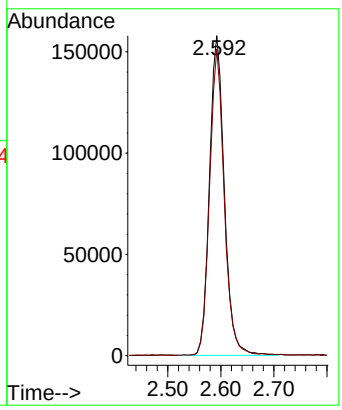


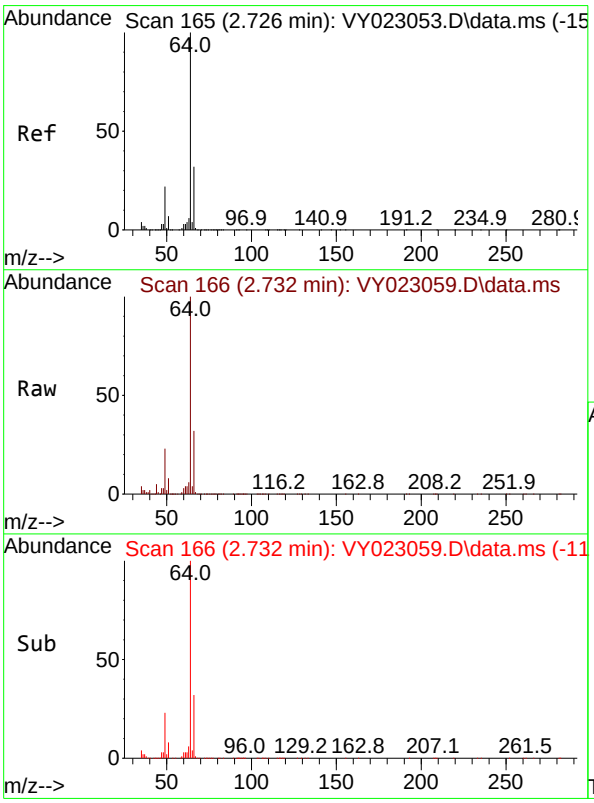

#5
Bromomethane
Concen: 47.148 ug/l
RT: 2.592 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 94 Resp: 308334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 95.8 | 74.6 | 112.0 |

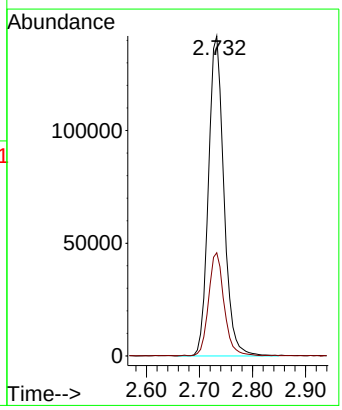


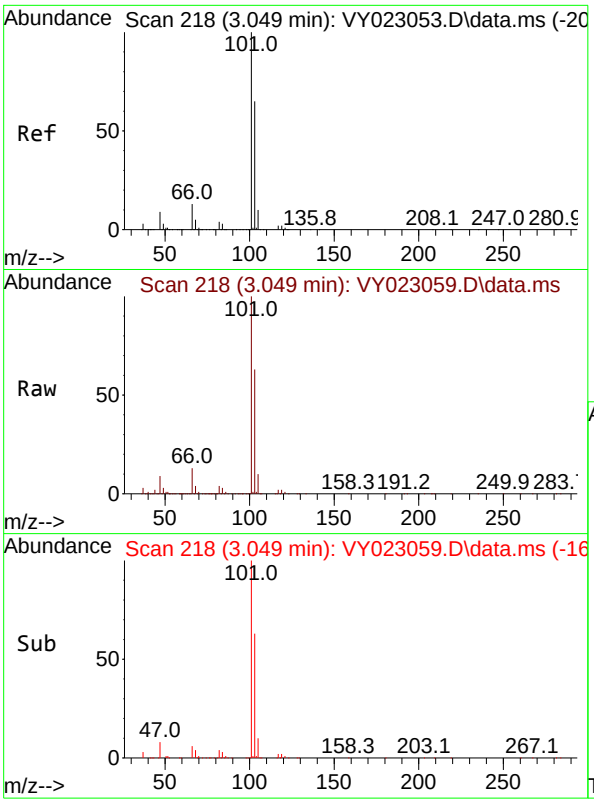




#6
Chloroethane
Concen: 49.279 ug/l
RT: 2.732 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 64 Resp: 286888

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.2 | 25.8 | 38.6 |



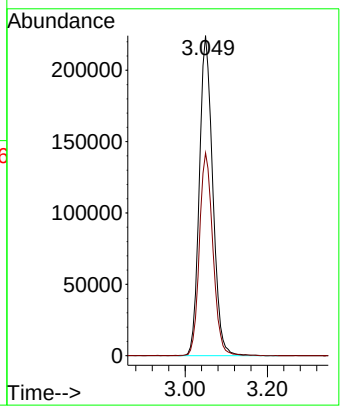


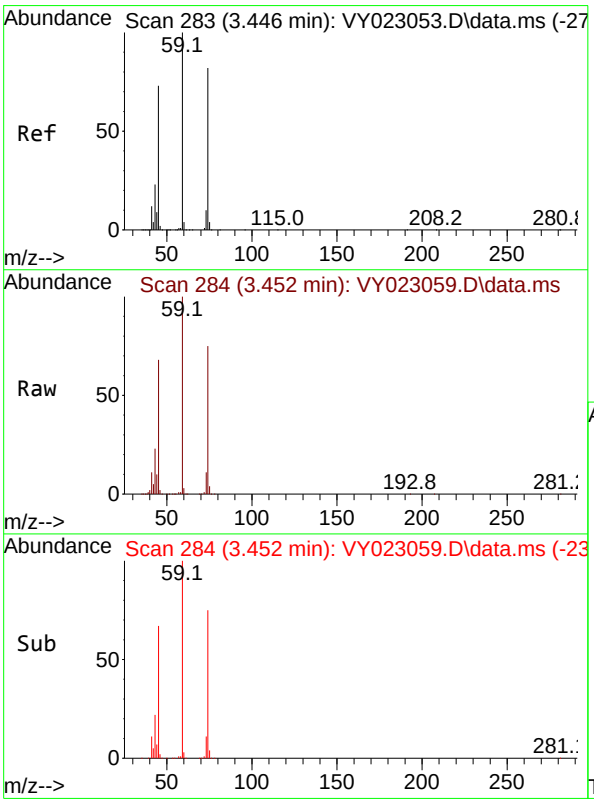

#7
Trichlorofluoromethane
Concen: 47.512 ug/l
RT: 3.049 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:101 Resp: 505891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.3 | 51.9 | 77.9 |

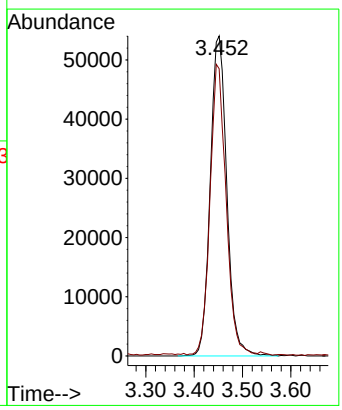


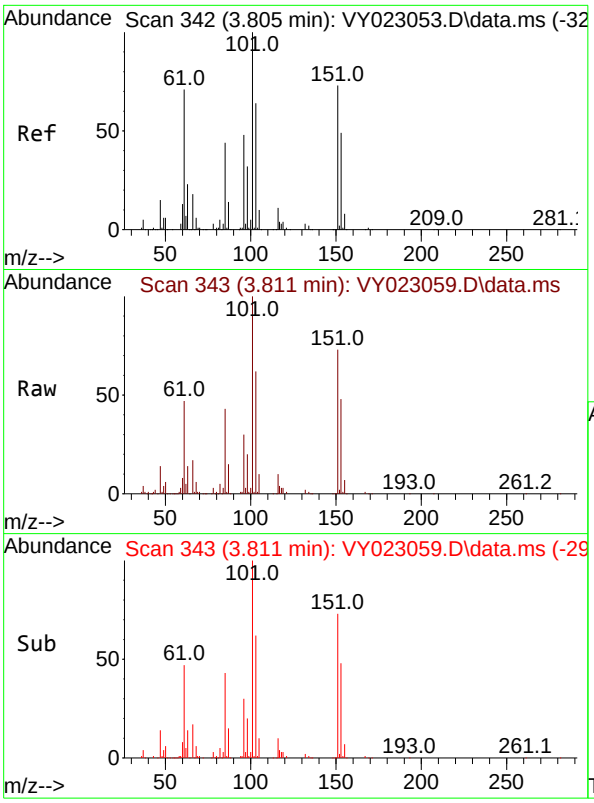




#8
Diethyl Ether
Concen: 45.547 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 74 Resp: 128306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 88.1 | 44.4 | 133.2 |



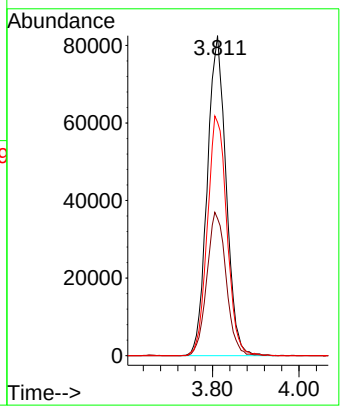


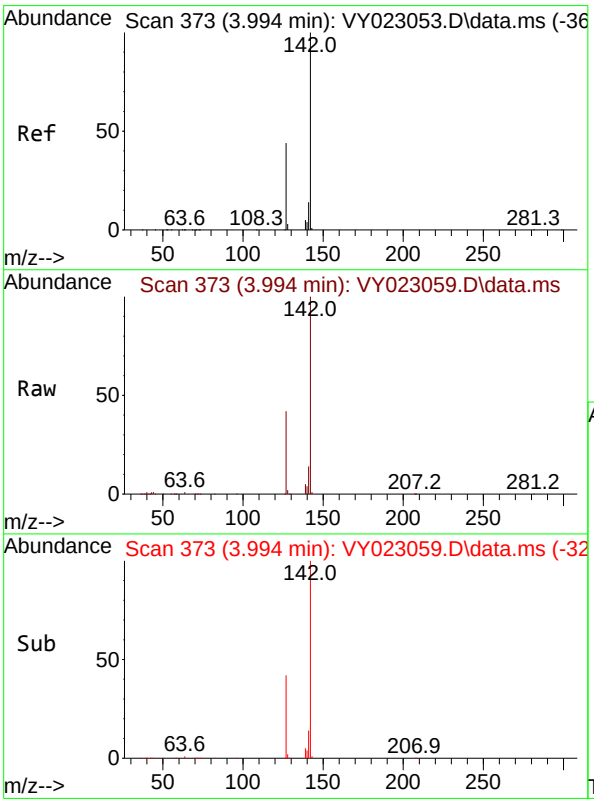

#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.444 ug/l
RT: 3.811 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:101 Resp: 249222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 45.9 | 36.3 | 54.5 |
| 151 | 77.3 | 61.5 | 92.3 |

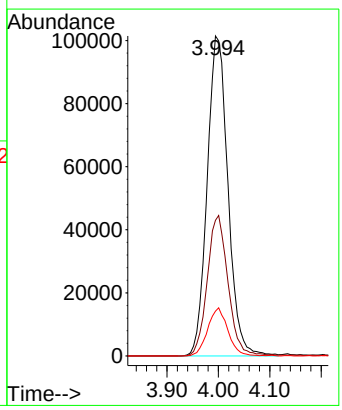


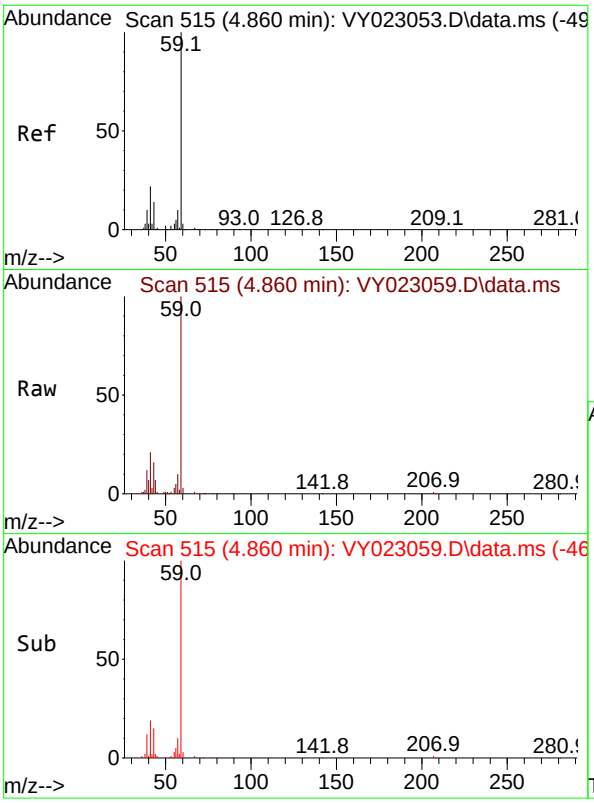




#10
Methyl Iodide
Concen: 50.312 ug/l
RT: 3.994 min Scan# 373
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:142 Resp: 285188

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 43.9 | 34.9 | 52.3 |
| 141 | 14.7 | 11.3 | 16.9 |



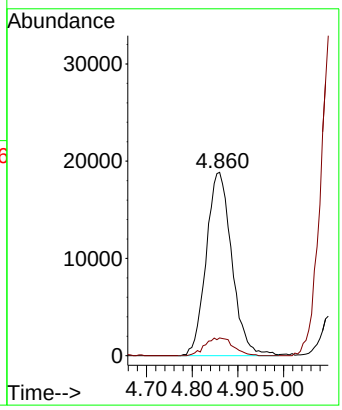


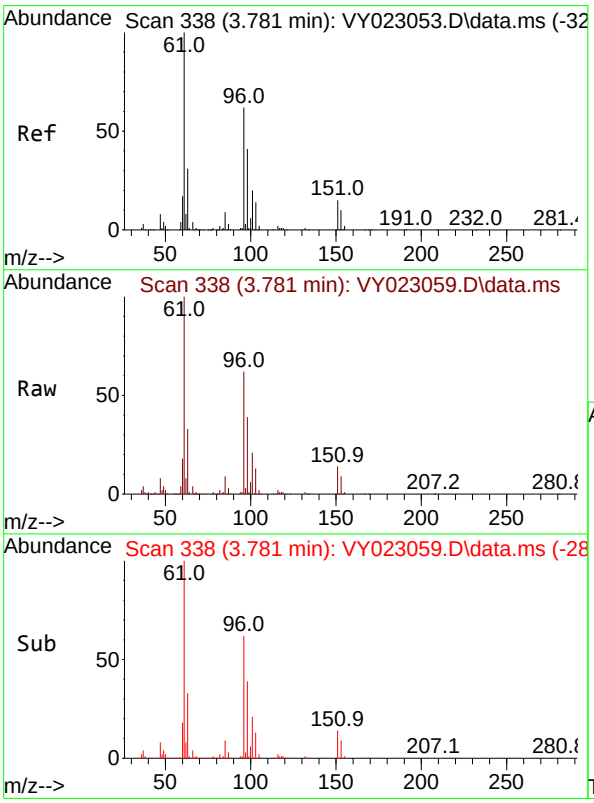

#11
Tert butyl alcohol
Concen: 209.916 ug/l
RT: 4.860 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 59 Resp: 73451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.7 | 8.6 | 13.0 |

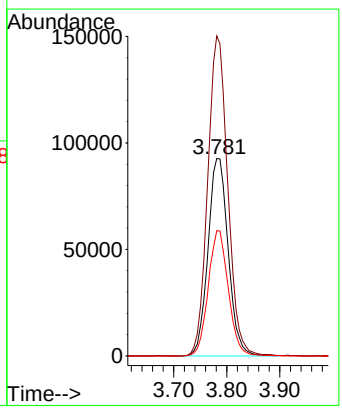


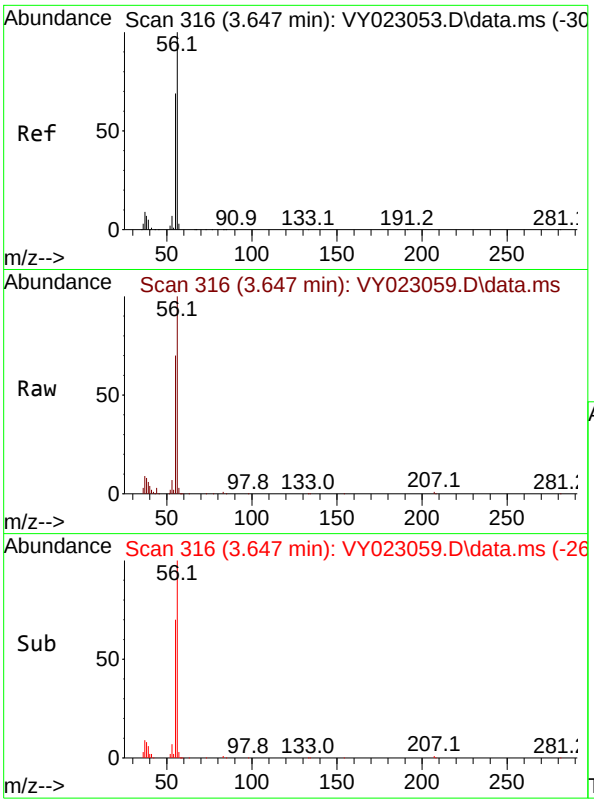




#12
1,1-Dichloroethene
Concen: 47.613 ug/l
RT: 3.781 min Scan# 338
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 96 Resp: 245840

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 162.1 | 129.4 | 194.2 |
| 98 | 63.4 | 52.8 | 79.2 |



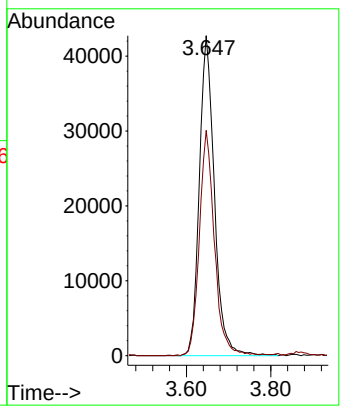


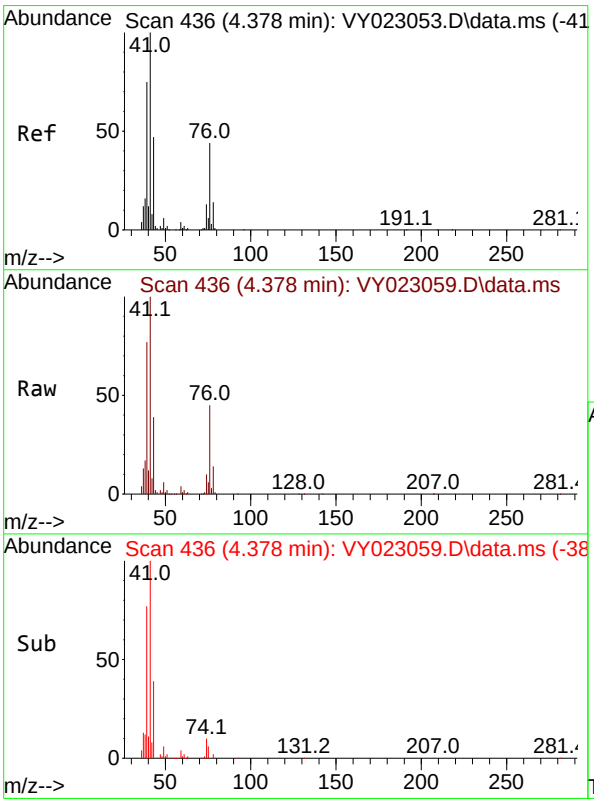

#13
Acrolein
Concen: 207.313 ug/l
RT: 3.647 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 56 Resp: 106236

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 70.6 | 55.2 | 82.8 |

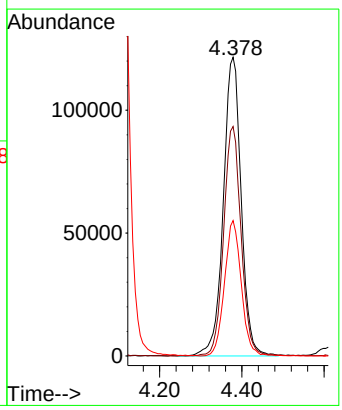


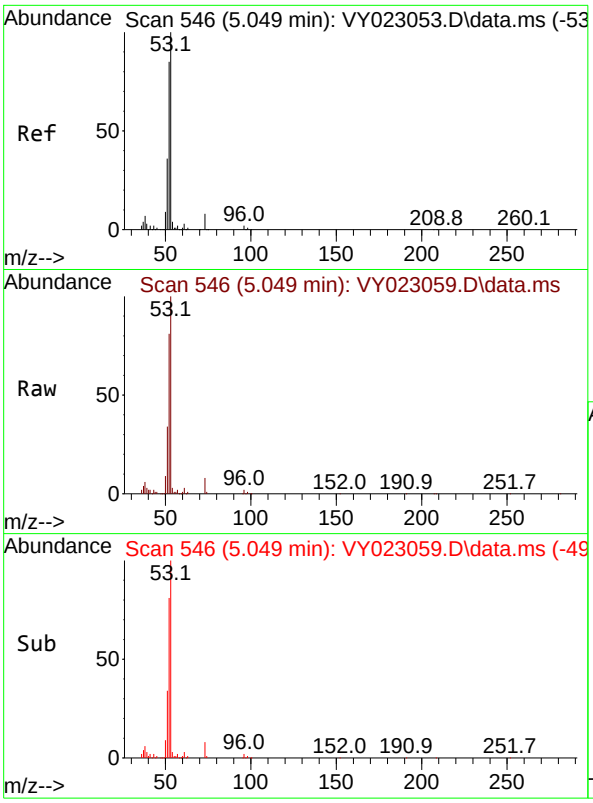




#14
Allyl chloride
Concen: 48.395 ug/l
RT: 4.378 min Scan# 436
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 41 Resp: 367684

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 75.0 | 59.8 | 89.6 |
| 76 | 42.6 | 33.7 | 50.5 |



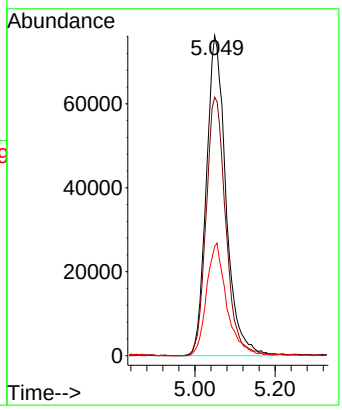


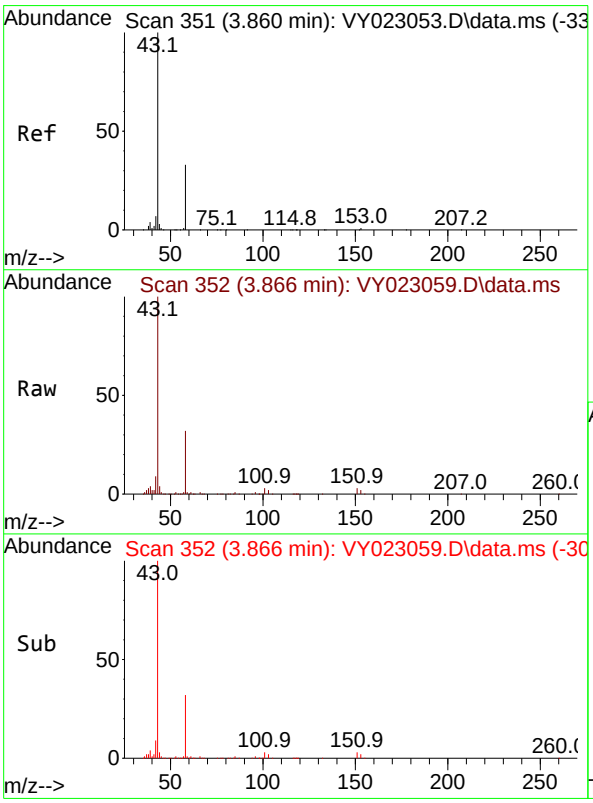

#15
Acrylonitrile
Concen: 226.059 ug/l
RT: 5.049 min Scan# 54
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 53 Resp: 258896

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 80.9 | 65.3 | 97.9 |
| 51 | 36.3 | 29.5 | 44.3 |

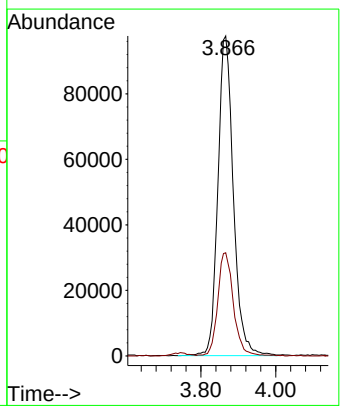


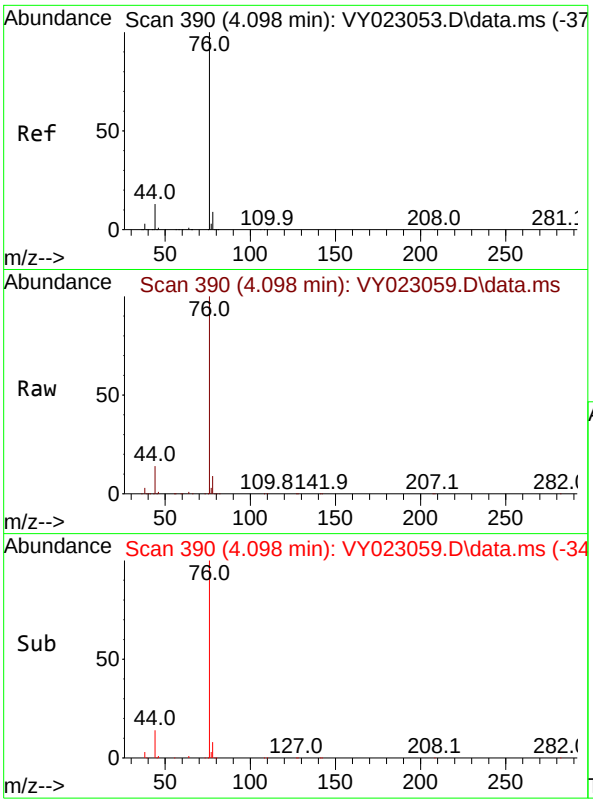




#16
Acetone
Concen: 253.265 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 43 Resp: 280197

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.1 | 27.1 | 40.7 |



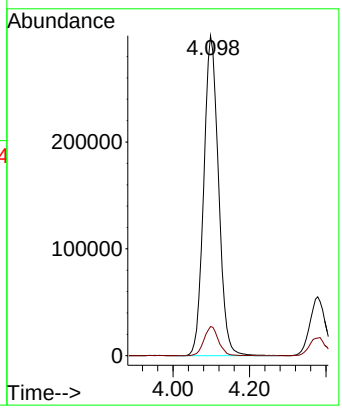


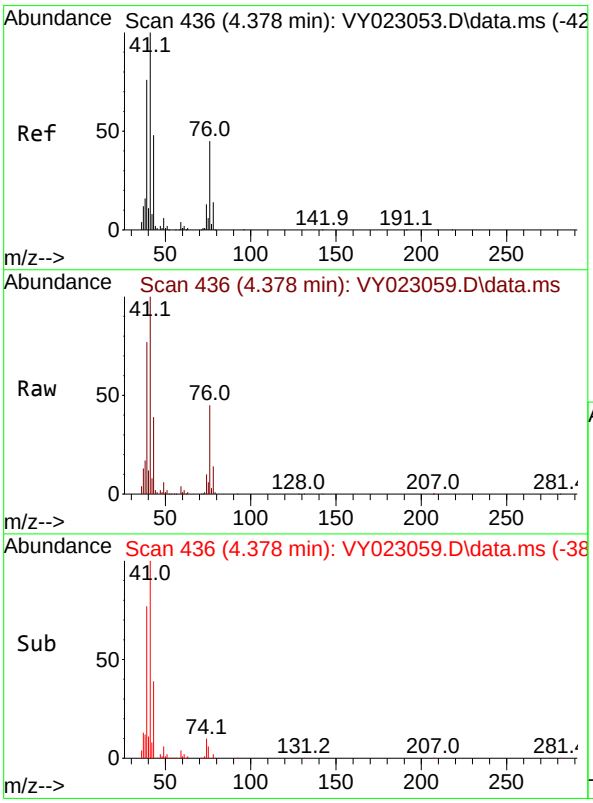

#17
Carbon Disulfide
Concen: 47.654 ug/l
RT: 4.098 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 76 Resp: 802293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.1 | 7.4 | 11.2 |

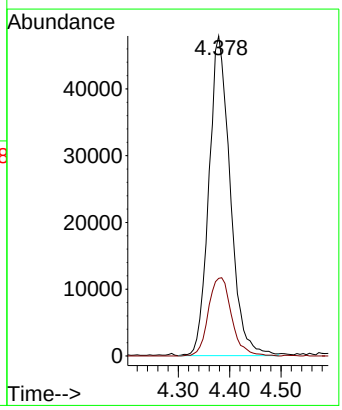


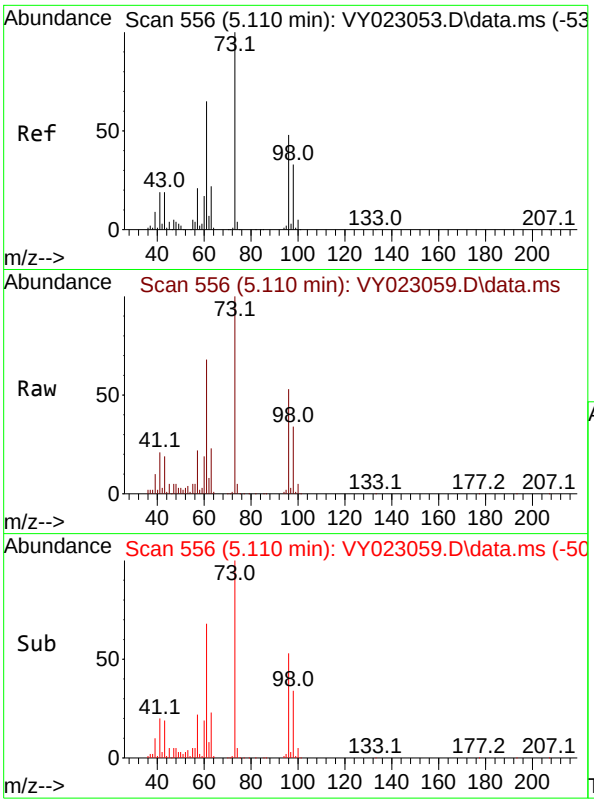




#18
Methyl Acetate
Concen: 41.723 ug/l
RT: 4.378 min Scan# 436
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 43 Resp: 137365

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 26.7 | 21.2 | 31.8 |



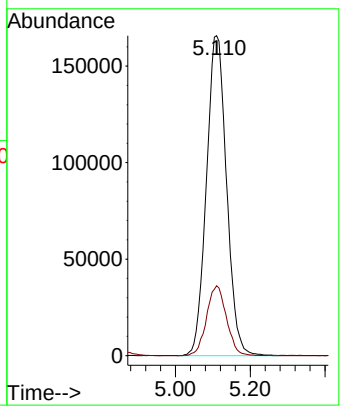


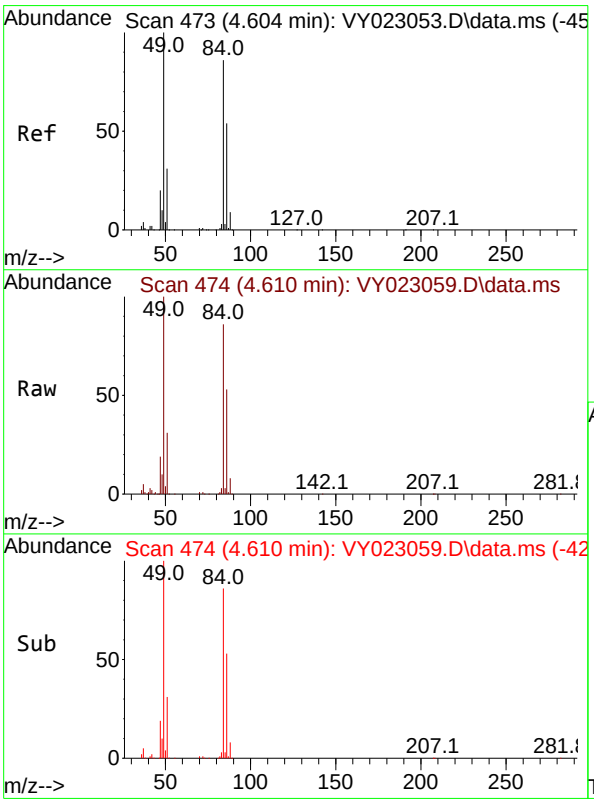

#19
Methyl tert-butyl Ether
Concen: 46.387 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 73 Resp: 620651

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.9 | 17.1 | 25.7 |

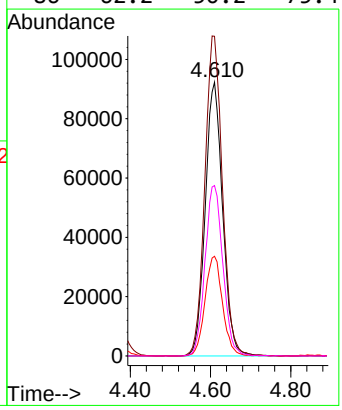


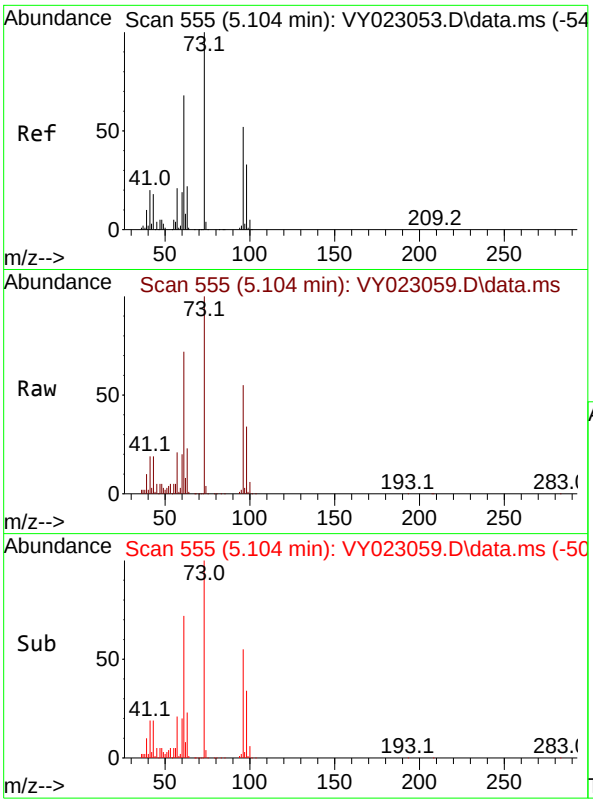




#20
Methylene Chloride
Concen: 48.260 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 84 Resp: 277983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 116.8 | 93.0 | 139.6 |
| 51 | 36.4 | 29.0 | 43.4 |
| 86 | 62.2 | 50.2 | 75.4 |



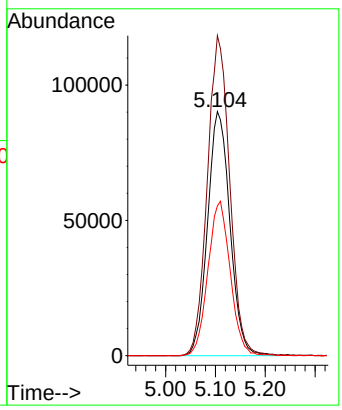


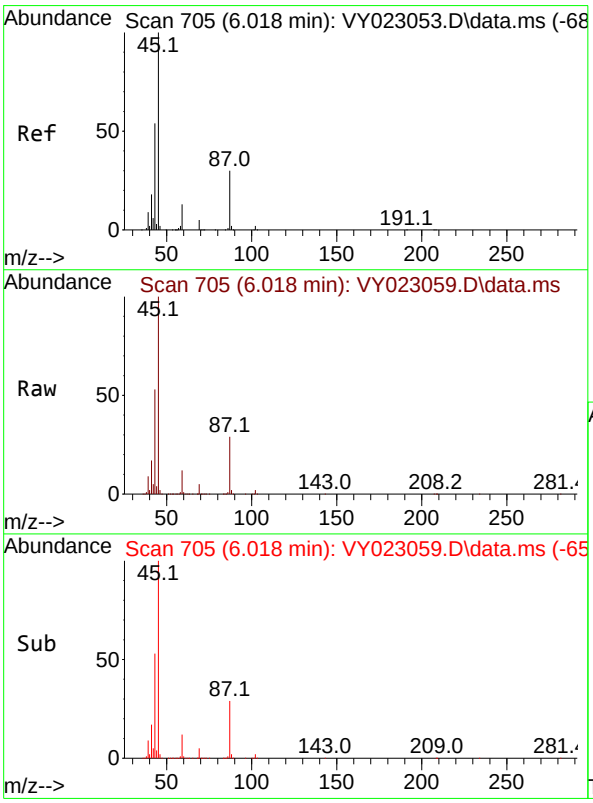

#21
trans-1,2-Dichloroethene
Concen: 48.558 ug/l
RT: 5.104 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 96 Resp: 281759

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 131.1 | 104.8 | 157.2 |
| 98 | 61.4 | 50.1 | 75.1 |

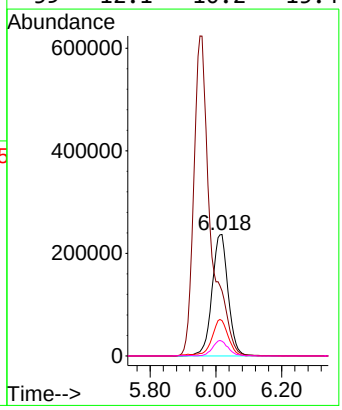


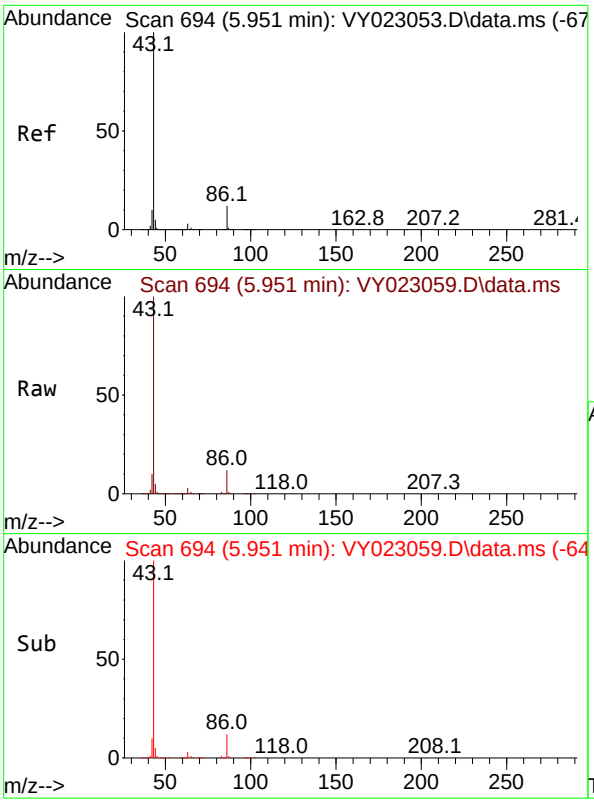




#22
Diisopropyl ether
Concen: 48.705 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 45 Resp: 804095

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 53.2 | 43.4 | 65.0 |
| 87 | 29.2 | 24.4 | 36.6 |
| 59 | 12.1 | 10.2 | 15.4 |



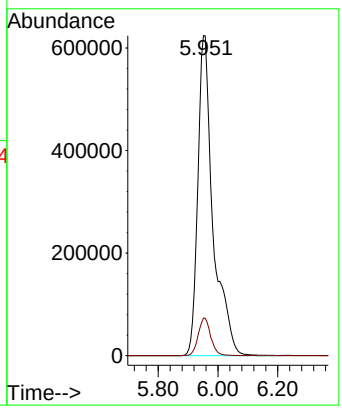


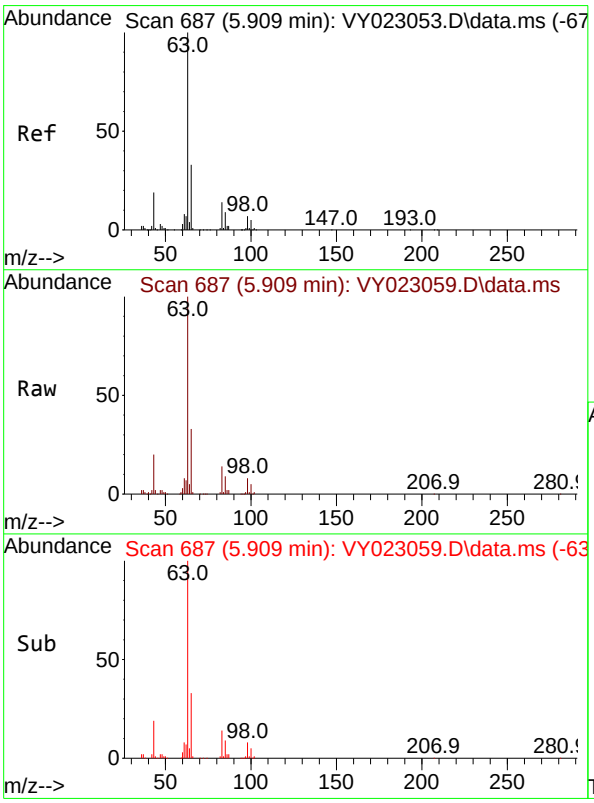

#23
Vinyl Acetate
Concen: 241.571 ug/l
RT: 5.951 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 2205285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.8 | 9.6 | 14.4 |

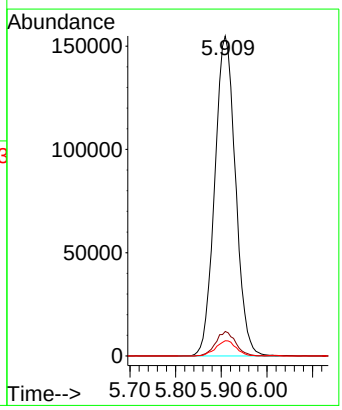


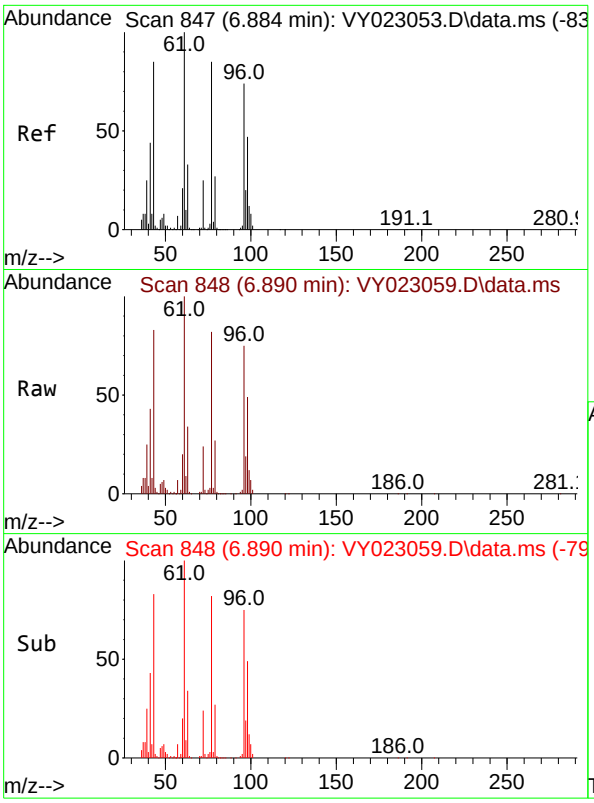




#24
1,1-Dichloroethane
Concen: 48.480 ug/l
RT: 5.909 min Scan# 687
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 63 Resp: 489342

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.7 | 3.5 | 10.6 |
| 100 | 4.8 | 2.4 | 7.1 |



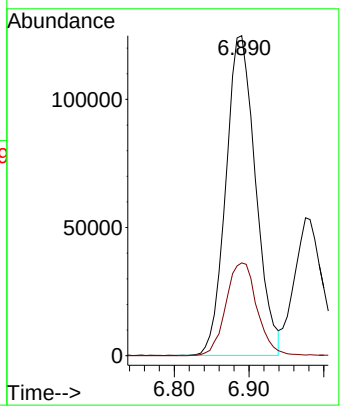


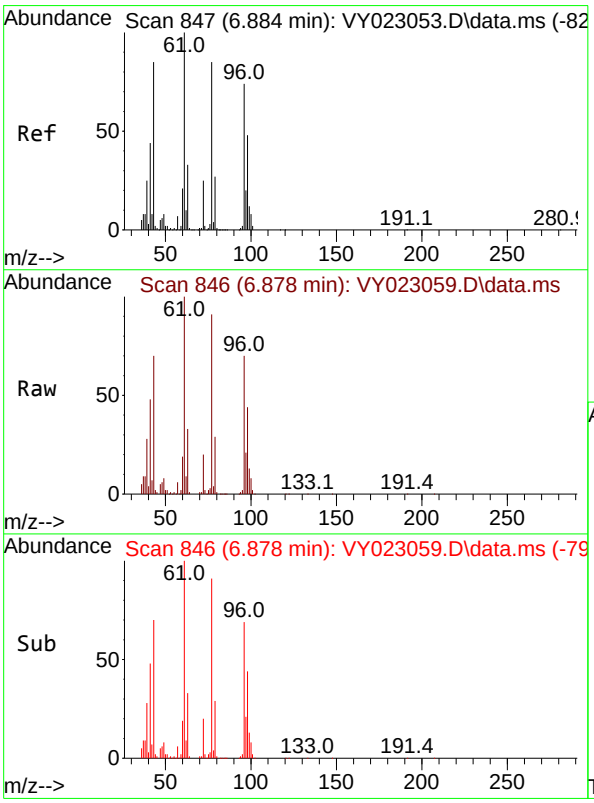

#25
2-Butanone
Concen: 229.361 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 345112

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 29.0 | 23.5 | 35.3 |

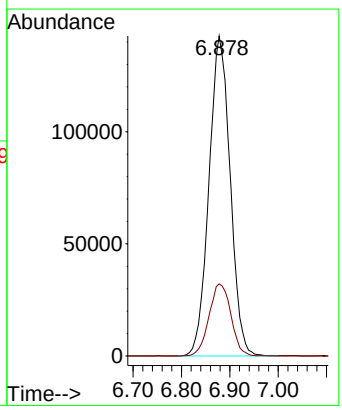


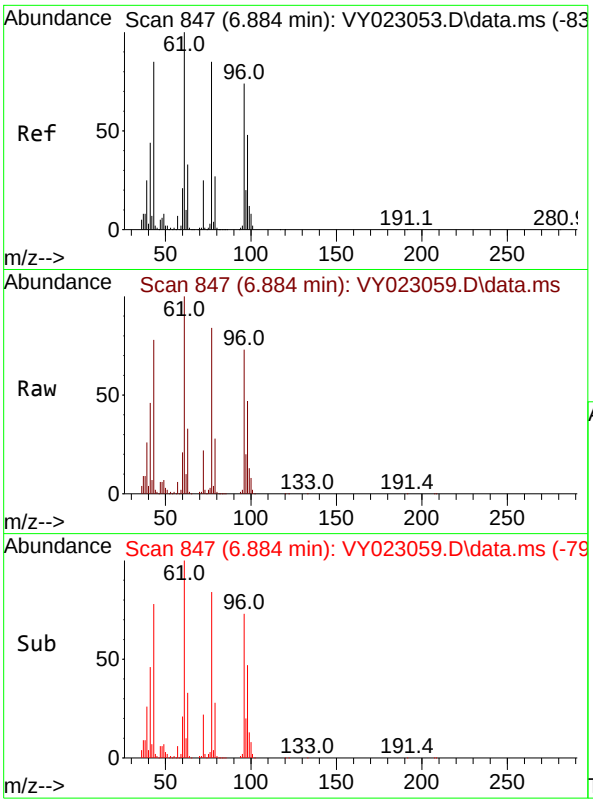




#26
2,2-Dichloropropane
Concen: 49.978 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 77 Resp: 435291

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.2 | 11.6 | 34.8 |



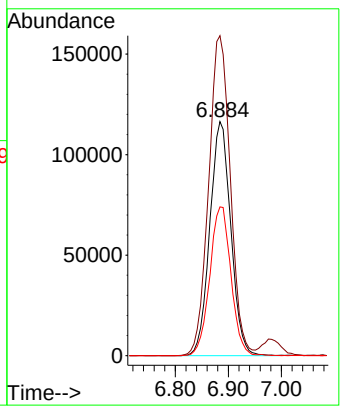


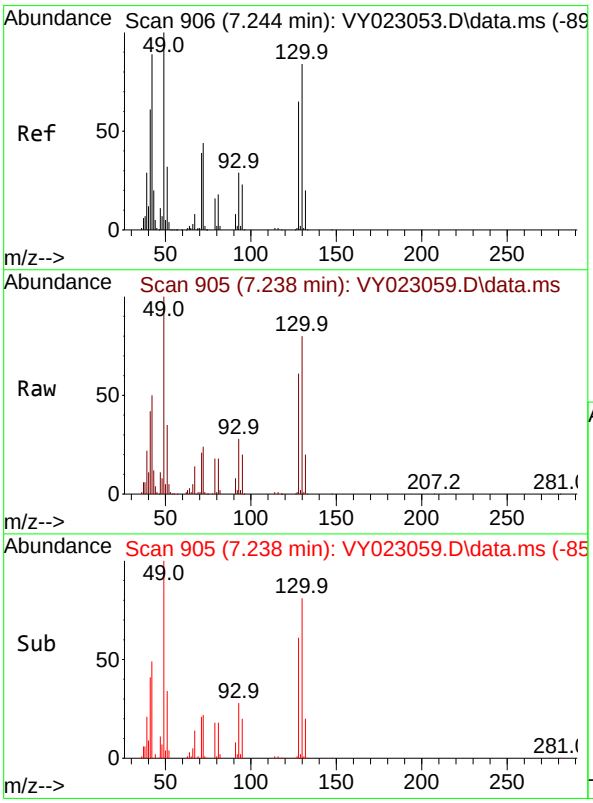

#27
cis-1,2-Dichloroethene
Concen: 47.671 ug/l
RT: 6.884 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 96 Resp: 319779

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 141.4 | 0.0 | 278.6 |
| 98 | 64.4 | 0.0 | 130.4 |

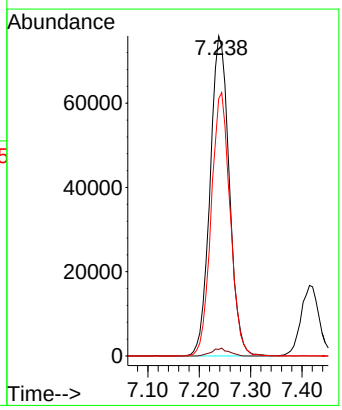


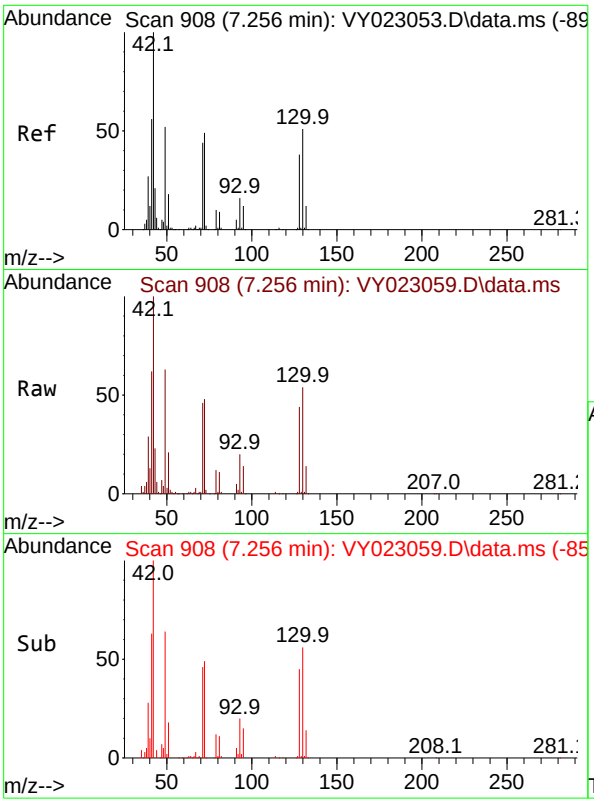




#28
Bromochloromethane
Concen: 49.222 ug/l
RT: 7.238 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 49 Resp: 197112

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.2 | 0.0 | 4.2 |
| 130 | 80.9 | 66.4 | 99.6 |



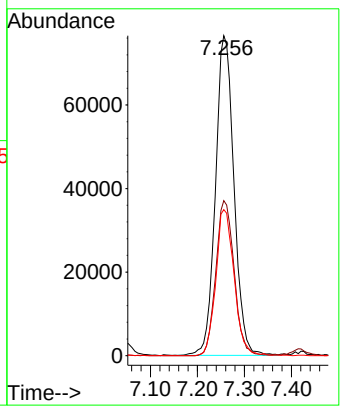


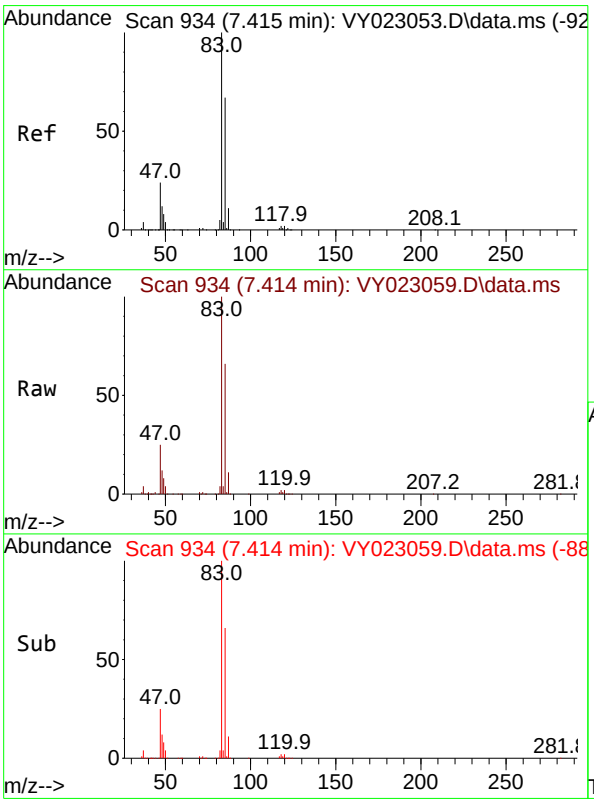

#29
Tetrahydrofuran
Concen: 224.929 ug/l
RT: 7.256 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 42 Resp: 209787

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 48.0 | 39.4 | 59.2 |
| 71 | 45.1 | 36.5 | 54.7 |

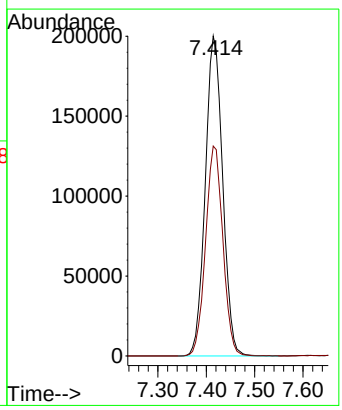


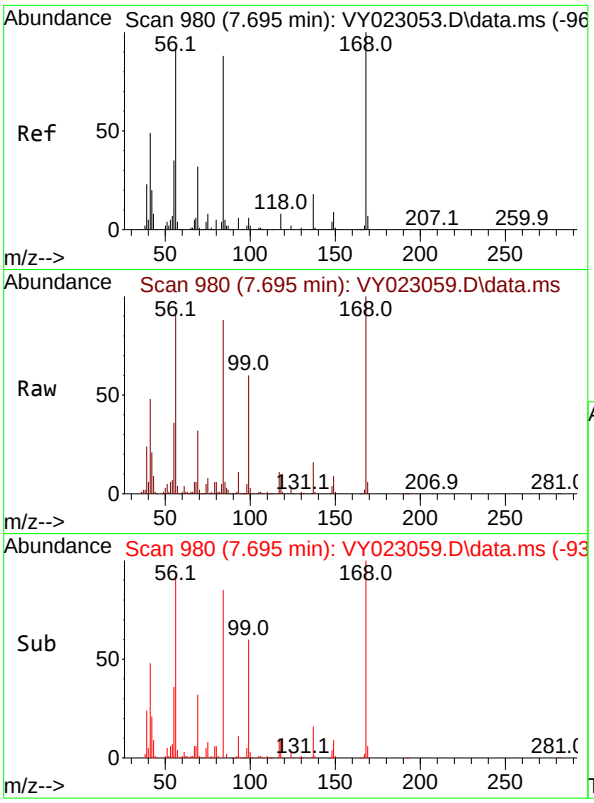




#30
Chloroform
Concen: 47.994 ug/l
RT: 7.414 min Scan# 934
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 83 Resp: 499613

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.6 | 53.8 | 80.8 |



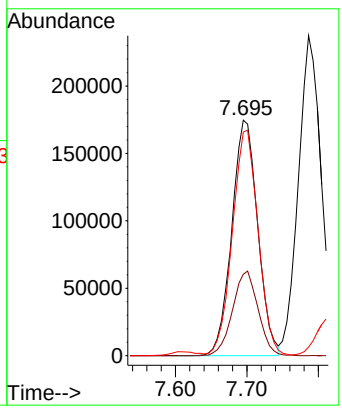


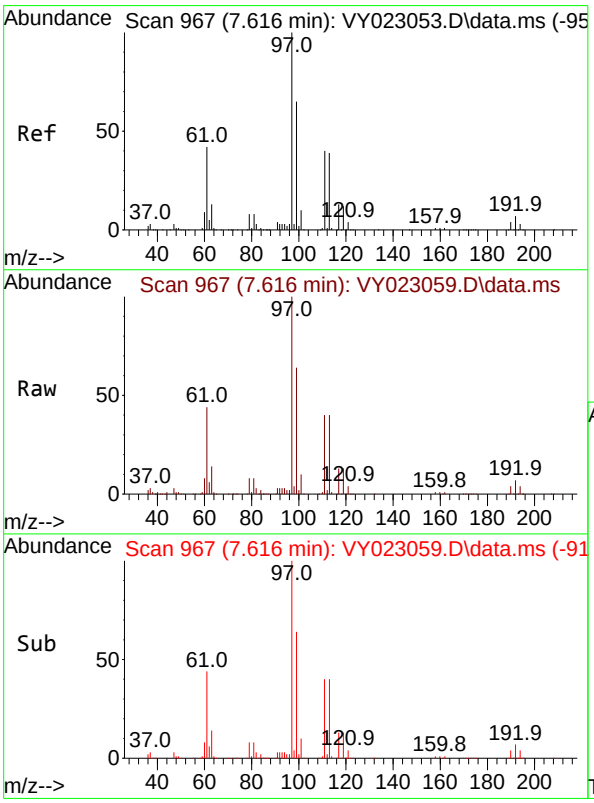

#31
Cyclohexane
Concen: 46.262 ug/l
RT: 7.695 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 56 Resp: 440040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 34.6 | 28.2 | 42.2 |
| 84 | 93.2 | 76.6 | 114.8 |

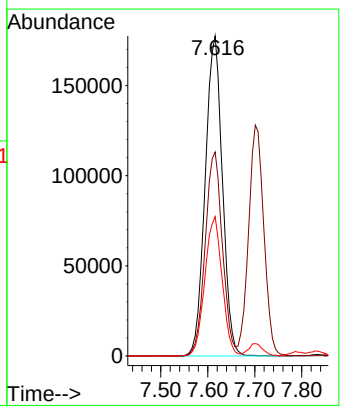


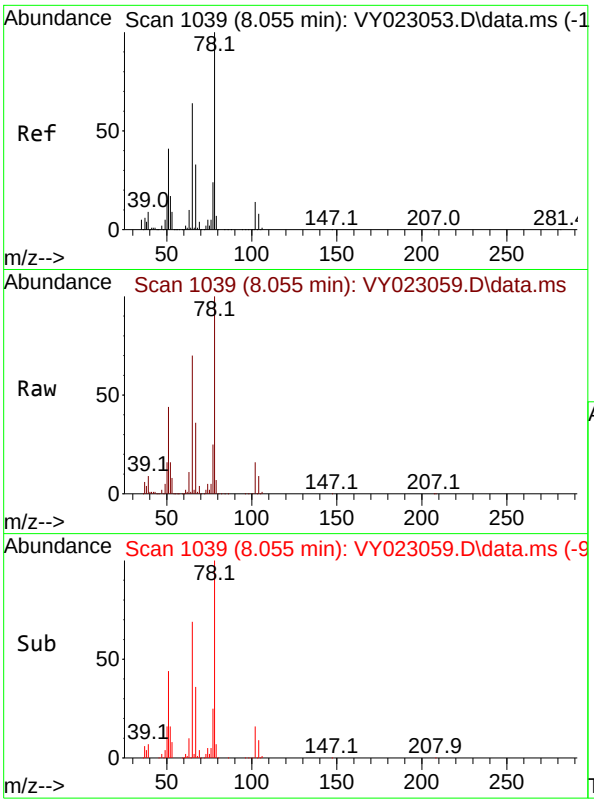




#32
1,1,1-Trichloroethane
Concen: 48.765 ug/l
RT: 7.616 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 97 Resp: 450437

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.6 | 51.6 | 77.4 |
| 61 | 43.8 | 34.2 | 51.2 |



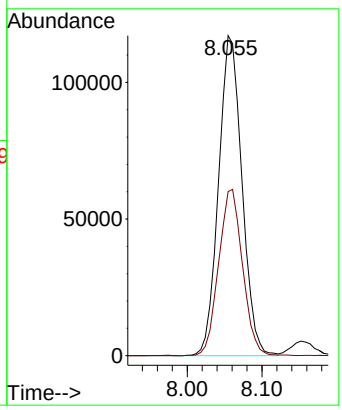


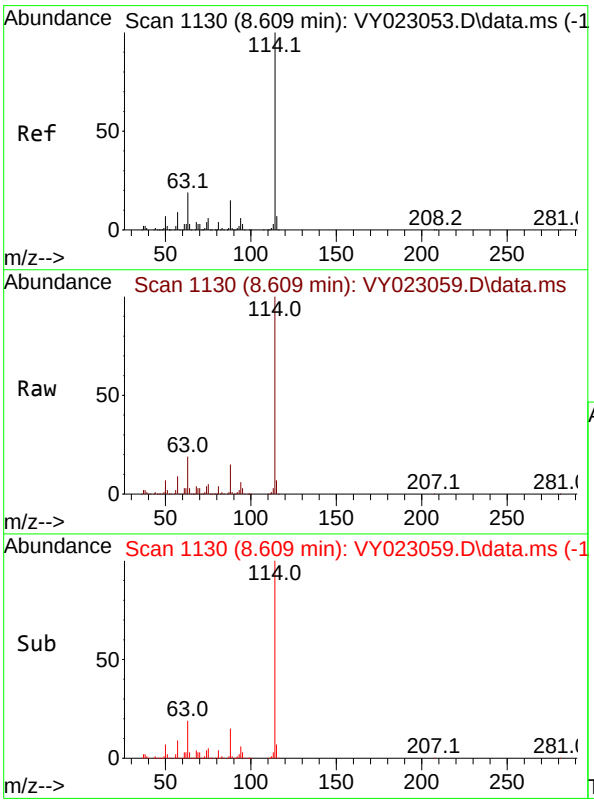

#33
1,2-Dichloroethane-d4
Concen: 49.931 ug/l
RT: 8.055 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 65 Resp: 254983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.1 | 0.0 | 106.8 |

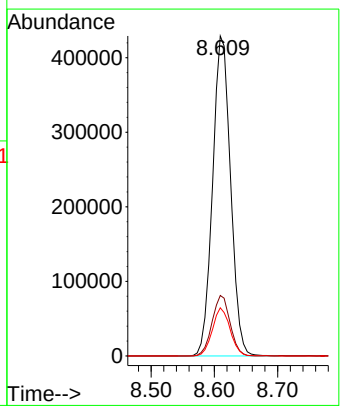


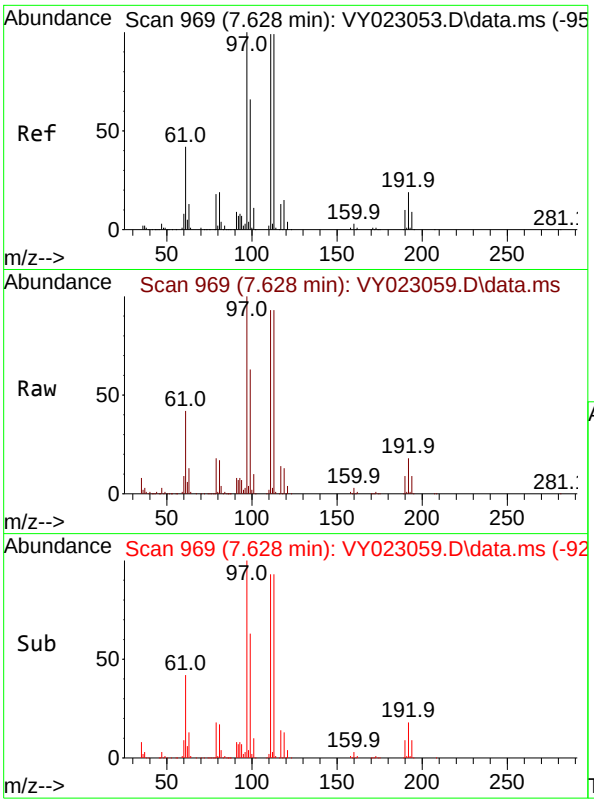




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:114 Resp: 845865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.9 | 0.0 | 38.4 |
| 88 | 15.1 | 0.0 | 30.0 |



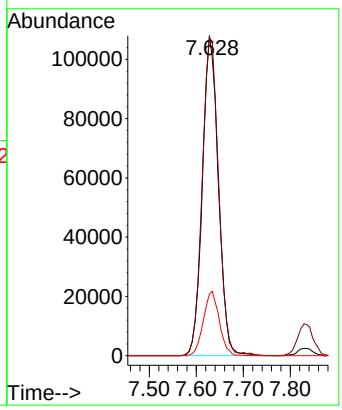


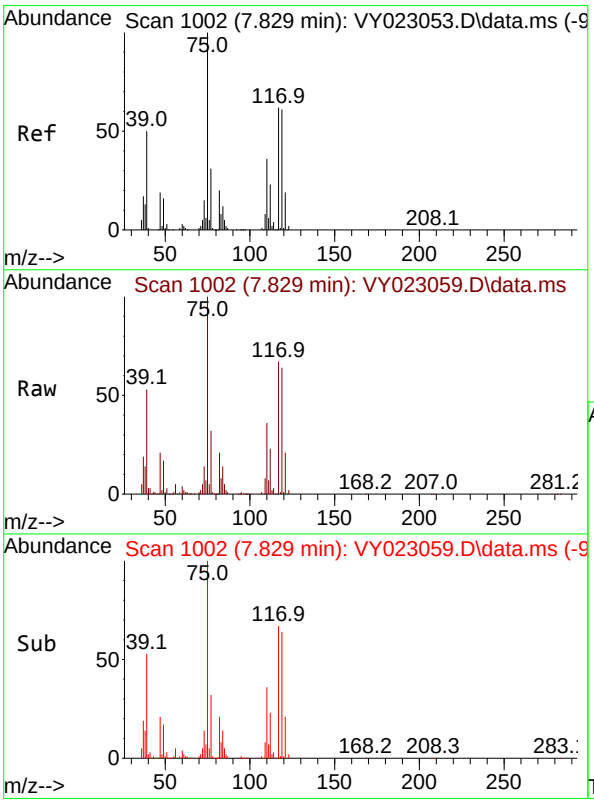

#35
Dibromofluoromethane
Concen: 50.227 ug/l
RT: 7.628 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:113 Resp: 254219

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.4 | 81.1 | 121.7 |
| 192 | 20.0 | 16.2 | 24.4 |

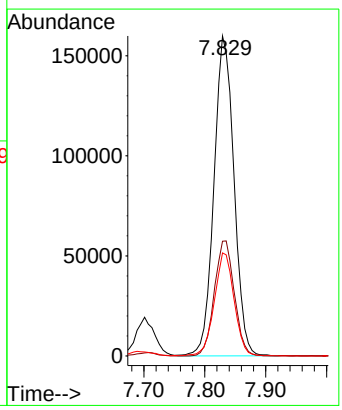


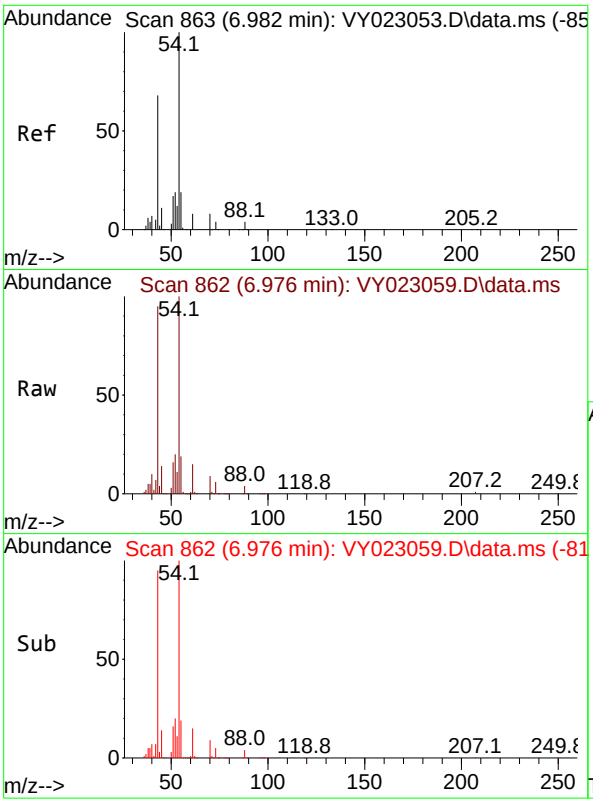




#36
1,1-Dichloropropene
Concen: 48.533 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 75 Resp: 365059

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.9 | 18.1 | 54.4 |
| 77 | 32.0 | 24.6 | 37.0 |



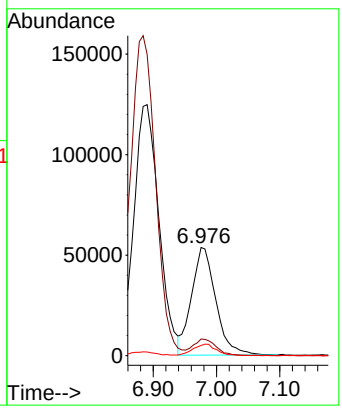


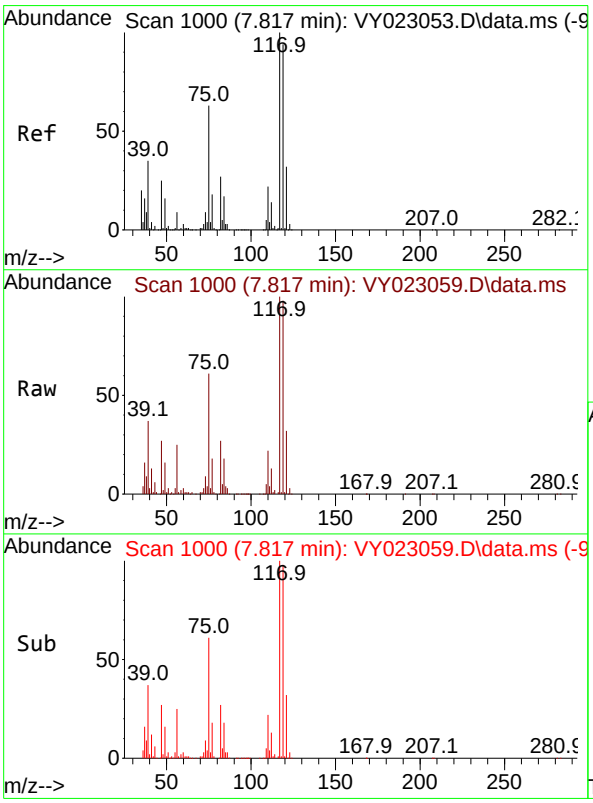

#37
Ethyl Acetate
Concen: 45.366 ug/l
RT: 6.976 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 143345

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.1 | 11.9 | 17.9 |
| 70 | 10.6 | 8.8 | 13.2 |

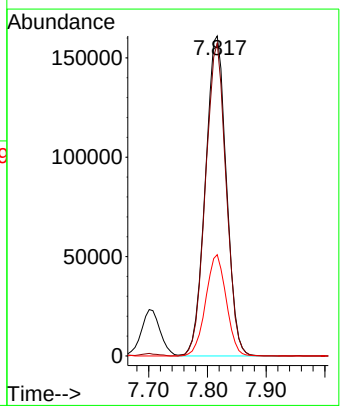


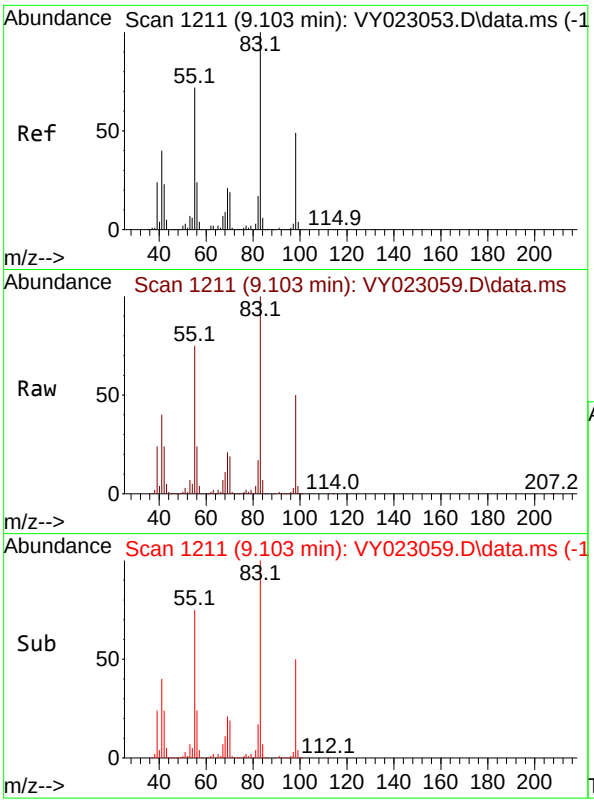




#38
Carbon Tetrachloride
Concen: 48.841 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:117 Resp: 399023

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 97.7 | 75.6 | 113.4 |
| 121 | 31.6 | 25.8 | 38.8 |



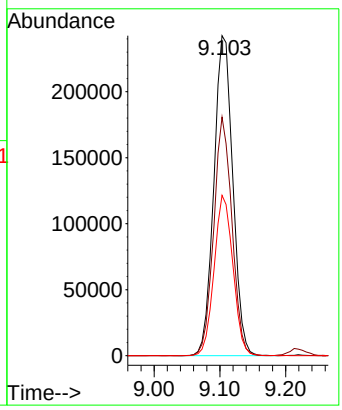


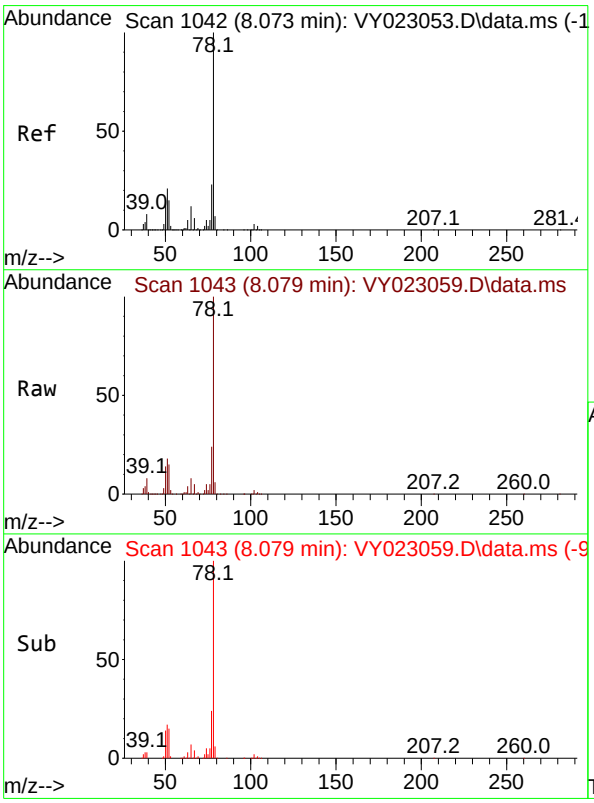

#39
Methylcyclohexane
Concen: 49.119 ug/l
RT: 9.103 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 83 Resp: 486544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 74.6 | 57.6 | 86.4 |
| 98 | 50.1 | 39.2 | 58.8 |

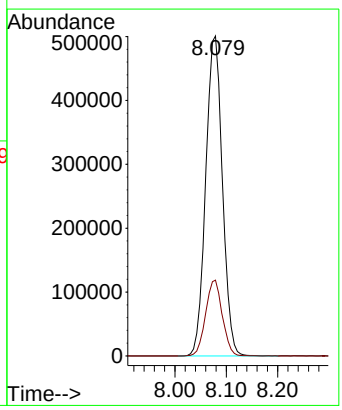


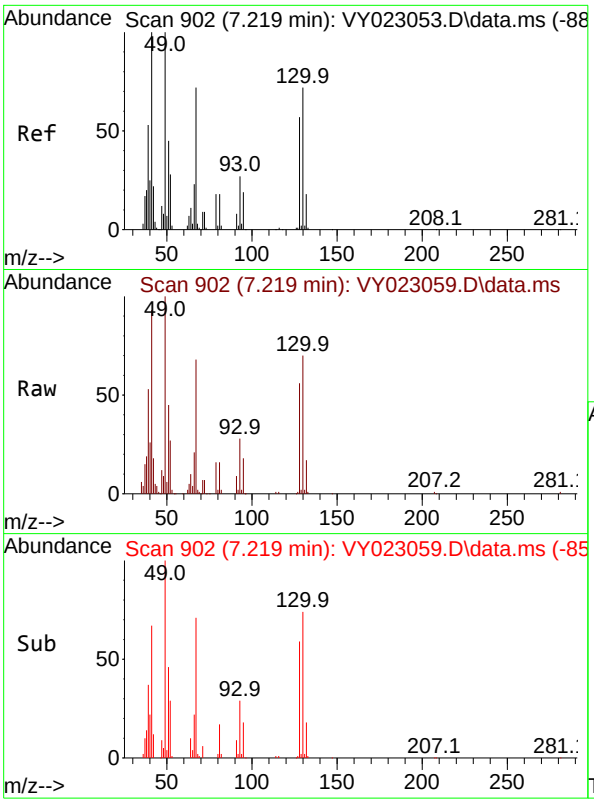




#40
Benzene
Concen: 48.666 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 78 Resp: 1128264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.7 | 18.6 | 28.0 |



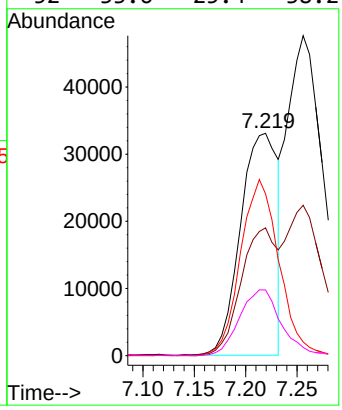


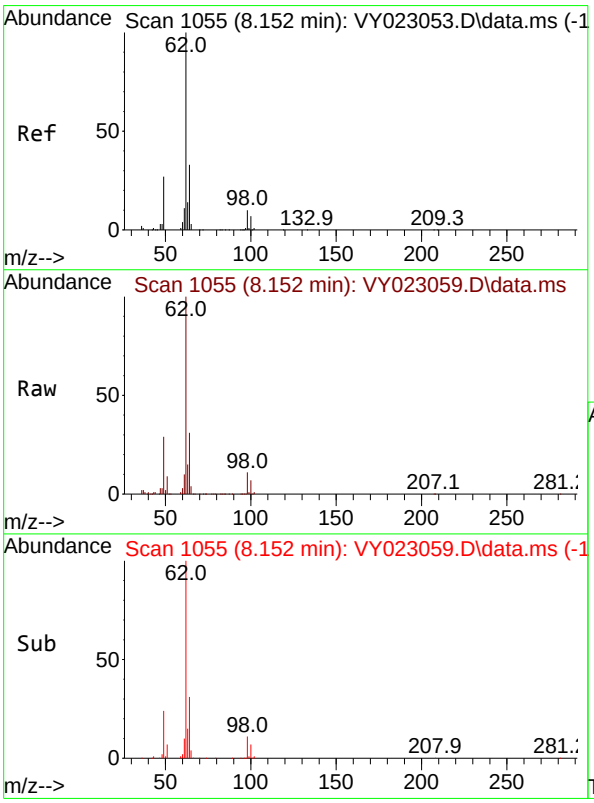

#41
Methacrylonitrile
Concen: 45.492 ug/l
RT: 7.219 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 41 Resp: 82958

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 56.1 | 43.4 | 65.2 |
| 67 | 82.9 | 63.6 | 95.4 |
| 52 | 33.6 | 25.4 | 38.2 |

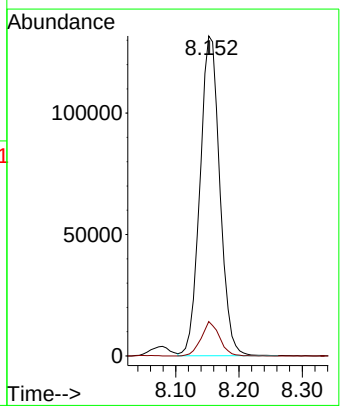


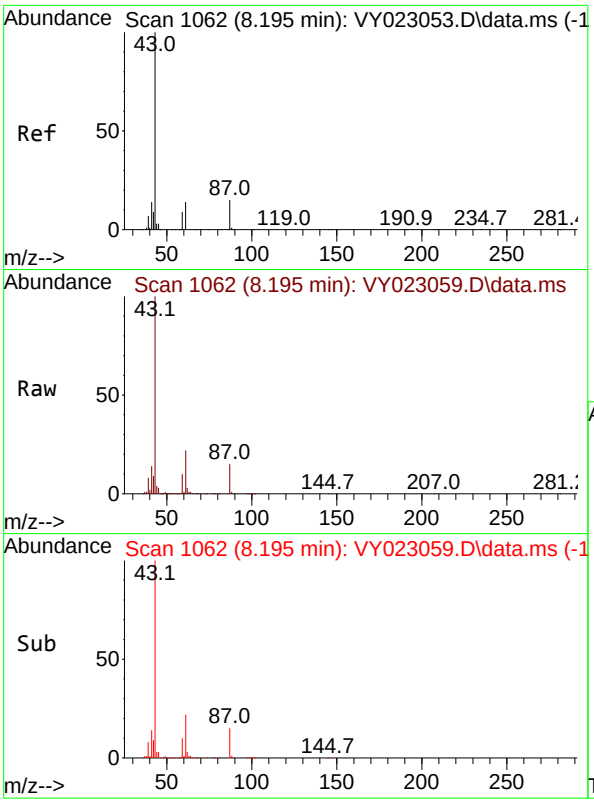




#42
1,2-Dichloroethane
Concen: 47.637 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 62 Resp: 287233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.0 | 0.0 | 20.6 |



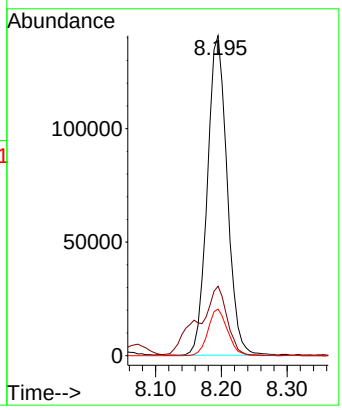


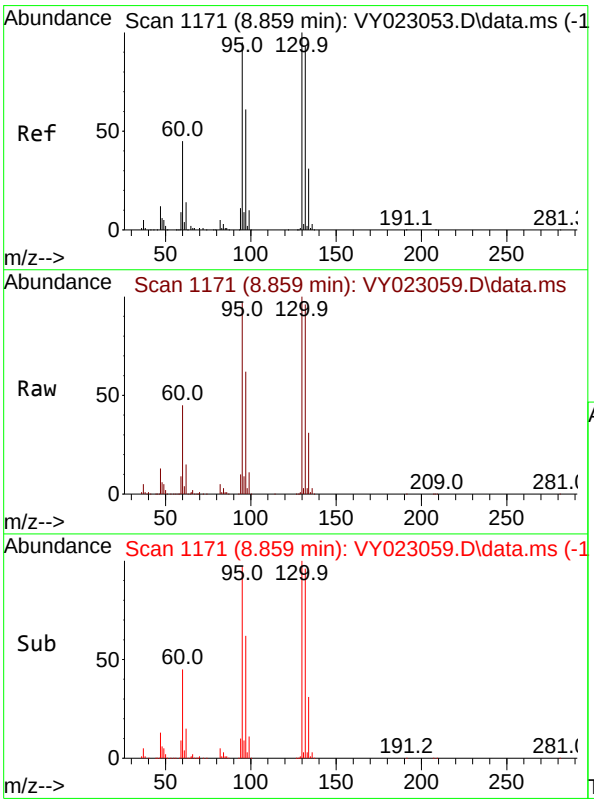

#43
Isopropyl Acetate
Concen: 46.179 ug/l
RT: 8.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 294919

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 31.9 | 16.4 | 24.6# |
| 87 | 14.4 | 11.8 | 17.6 |

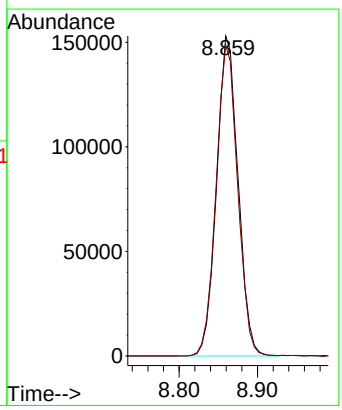


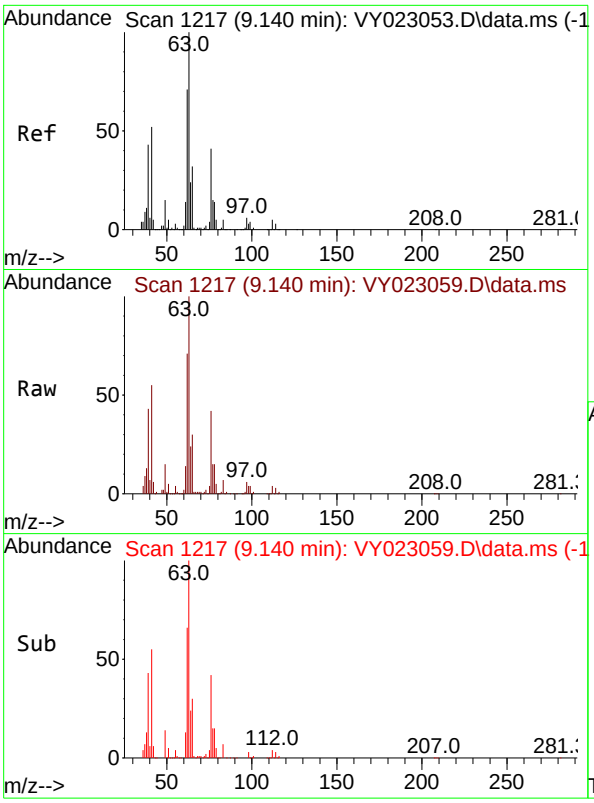




#44
Trichloroethene
Concen: 48.551 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:130 Resp: 290876

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 97.2 | 0.0 | 190.2 |



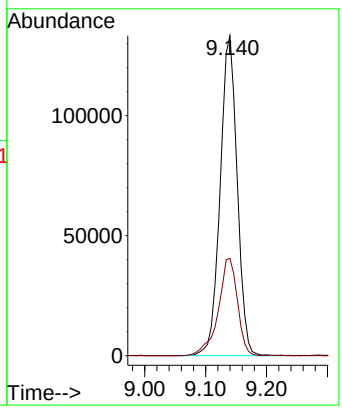


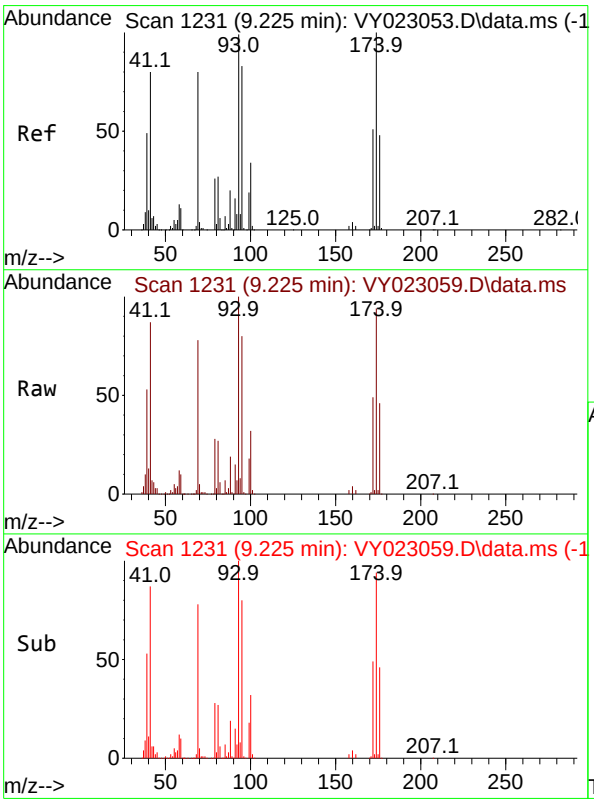

#45
1,2-Dichloropropane
Concen: 48.591 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 63 Resp: 259199

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.4 | 25.3 | 37.9 |

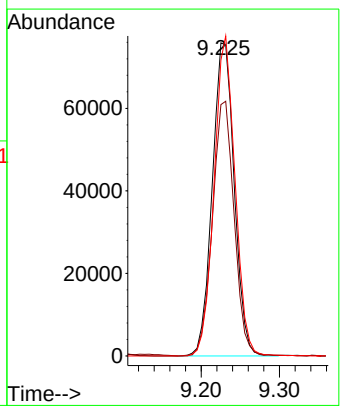


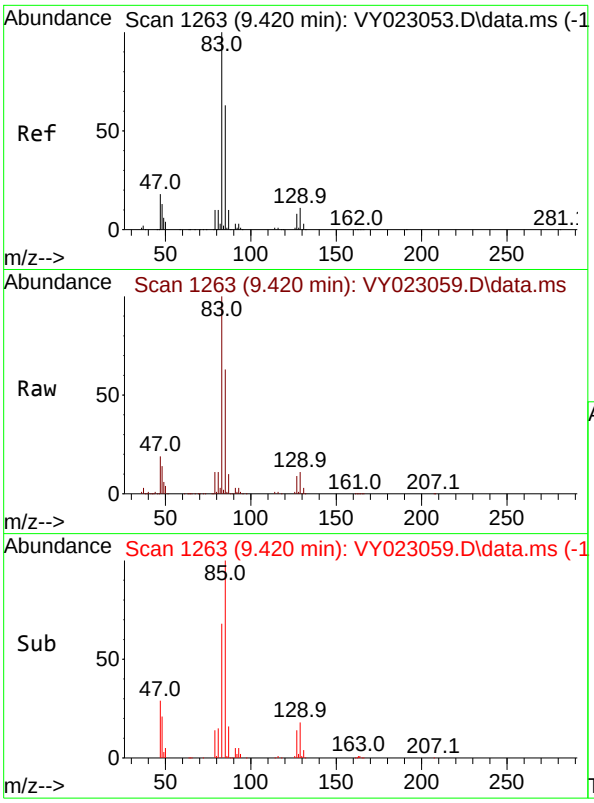




#46
Dibromomethane
Concen: 48.268 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 93 Resp: 147784

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 80.3 | 66.5 | 99.7 |
| 174 | 97.5 | 81.8 | 122.8 |



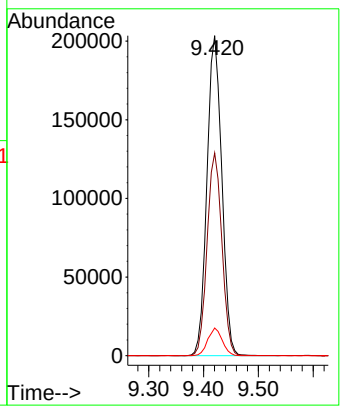


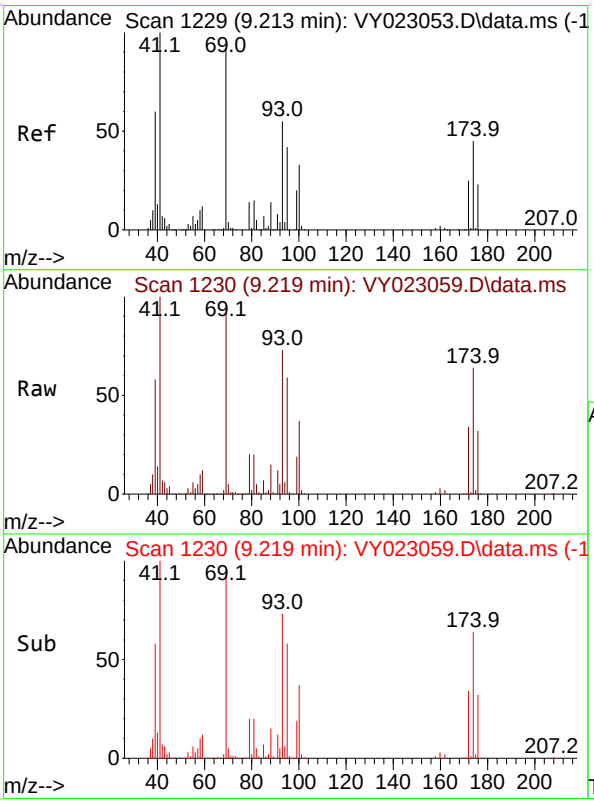

#47
Bromodichloromethane
Concen: 48.276 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 83 Resp: 380333

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.4 | 50.2 | 75.4 |
| 127 | 8.7 | 6.6 | 10.0 |

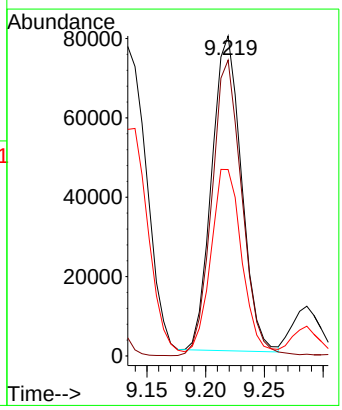


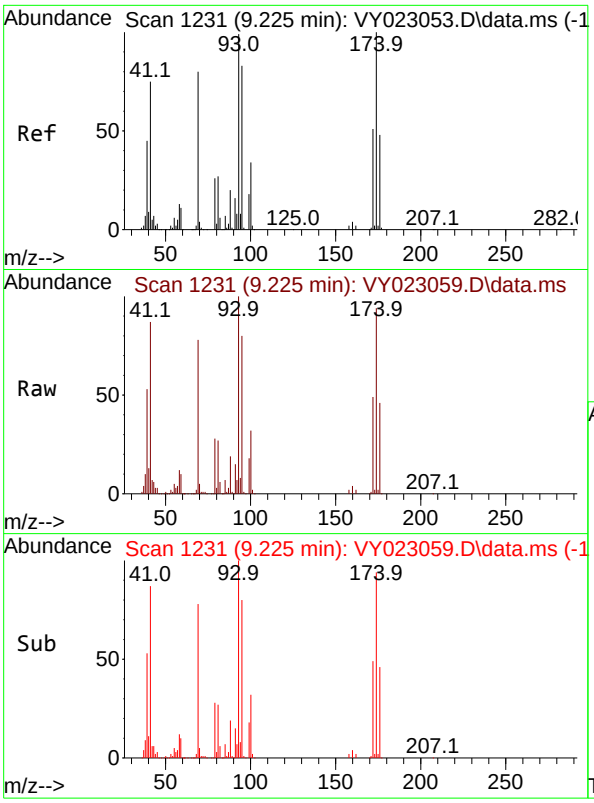




#48
Methyl methacrylate
Concen: 45.747 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 41 Resp: 139803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 95.0 | 73.2 | 109.8 |
| 39 | 59.5 | 47.0 | 70.4 |



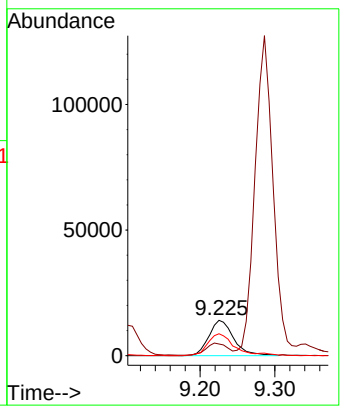


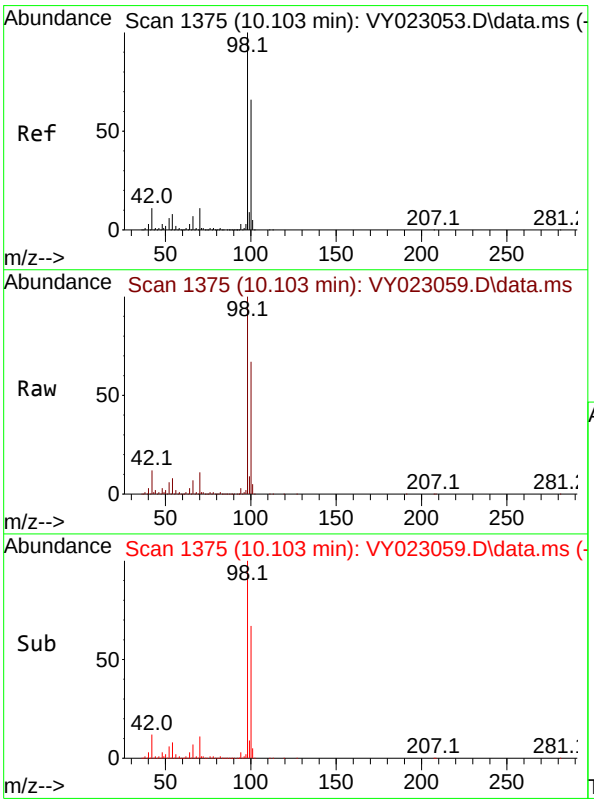

#49
1,4-Dioxane
Concen: 905.464 ug/l
RT: 9.225 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 88 Resp: 32506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 29.3 | 24.3 | 36.5 |
| 58 | 62.5 | 55.4 | 83.0 |

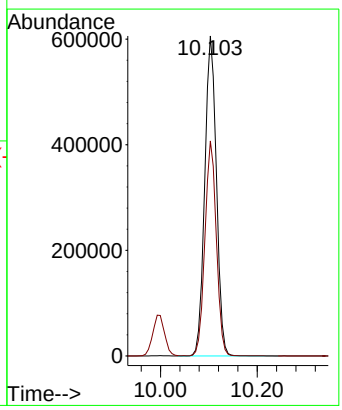


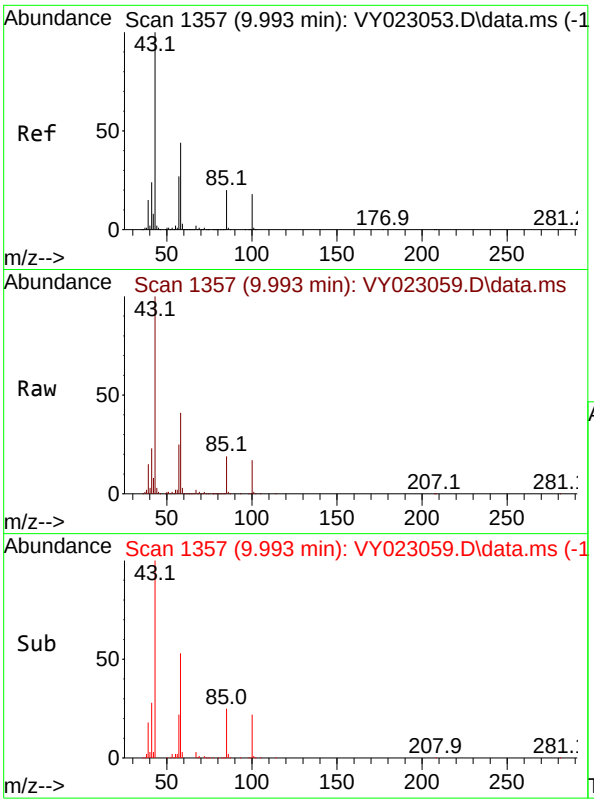




#50
Toluene-d8
Concen: 51.328 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 98 Resp: 1014903

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.9 | 52.3 | 78.5 |



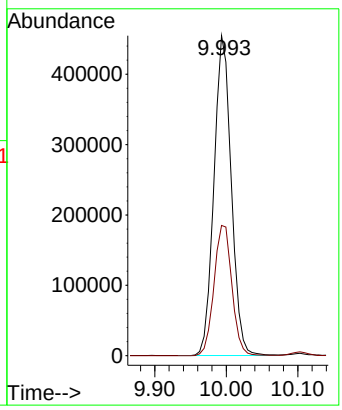


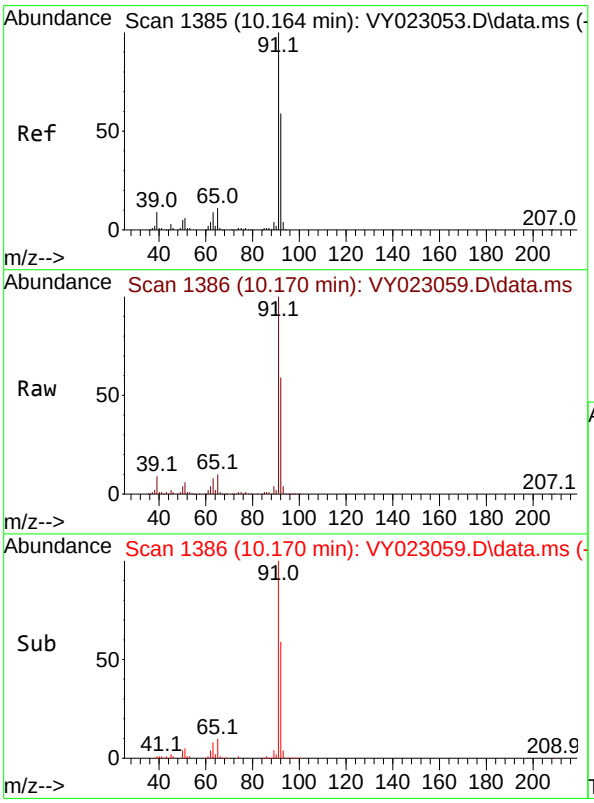

#51
4-Methyl-2-Pentanone
Concen: 232.613 ug/l
RT: 9.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 766289

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 42.1 | 33.5 | 50.3 |

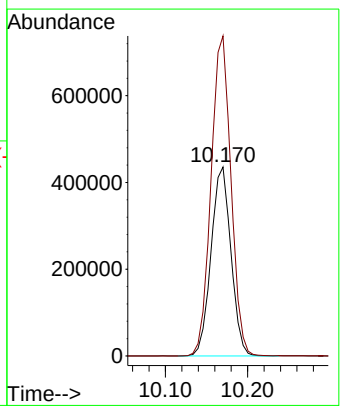


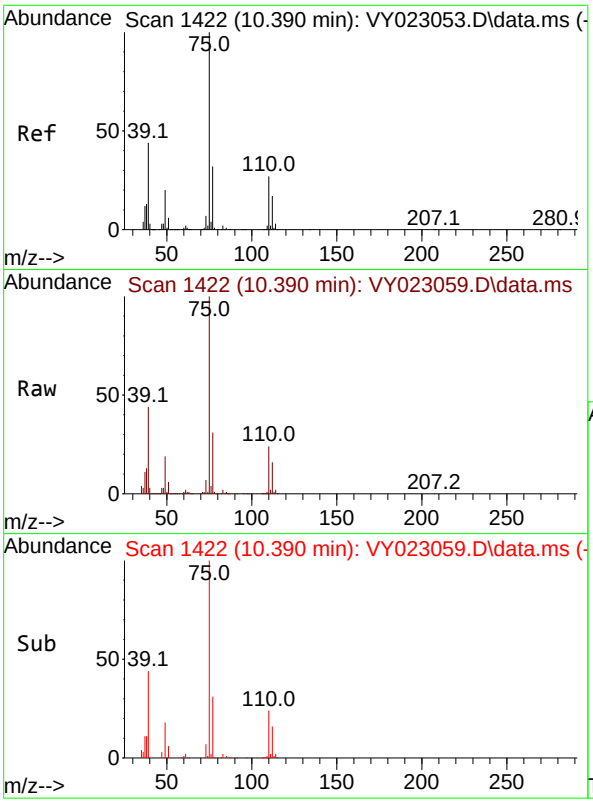




#52
Toluene
Concen: 49.619 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 92 Resp: 730616

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 170.0 | 136.4 | 204.6 |



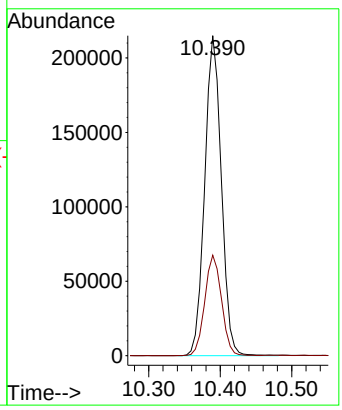


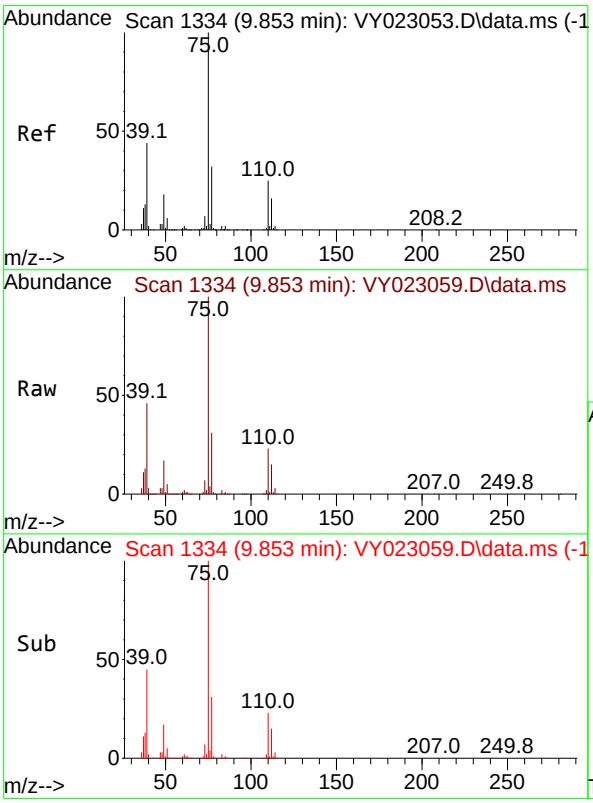

#53
t-1,3-Dichloropropene
Concen: 48.623 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 75 Resp: 346881

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.3 | 25.7 | 38.5 |

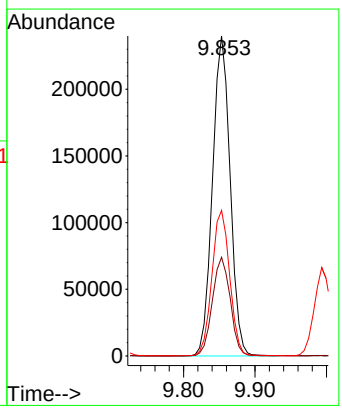


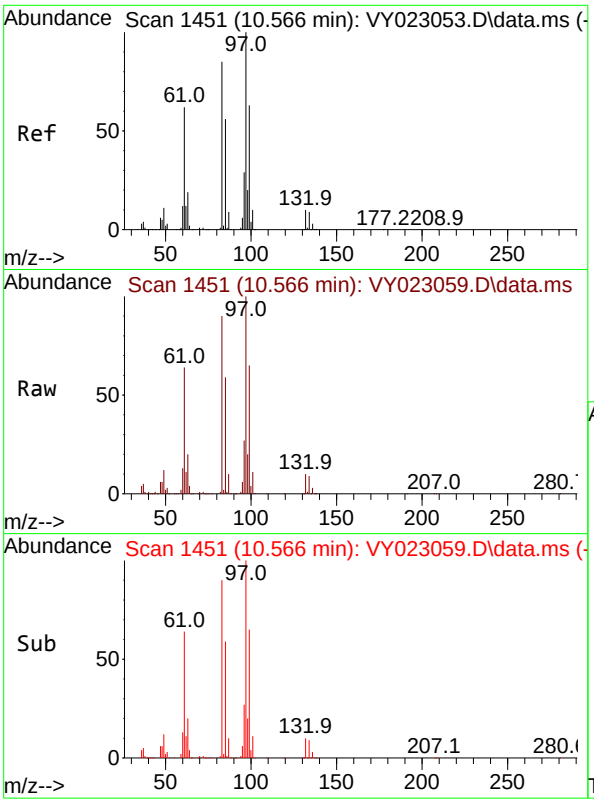




#54
cis-1,3-Dichloropropene
Concen: 48.667 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 75 Resp: 410557

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.8 | 25.4 | 38.0 |
| 39 | 45.5 | 35.6 | 53.4 |



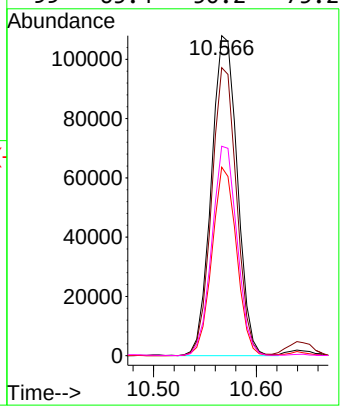


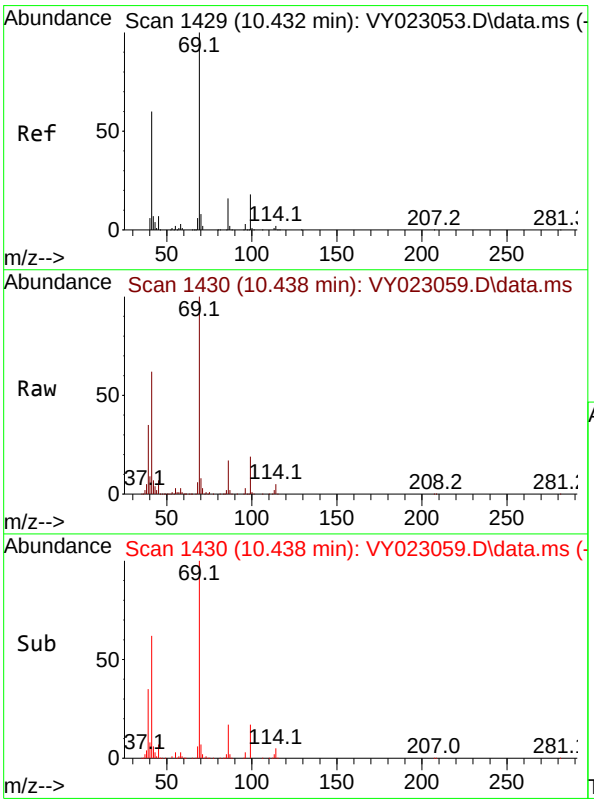

#55
1,1,2-Trichloroethane
Concen: 46.330 ug/l
RT: 10.566 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 97 Resp: 189812

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 89.9 | 67.7 | 101.5 |
| 85 | 58.8 | 44.5 | 66.7 |
| 99 | 65.4 | 50.2 | 75.2 |

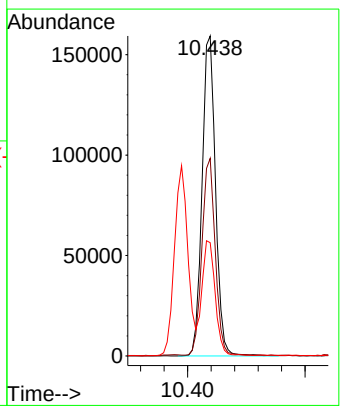


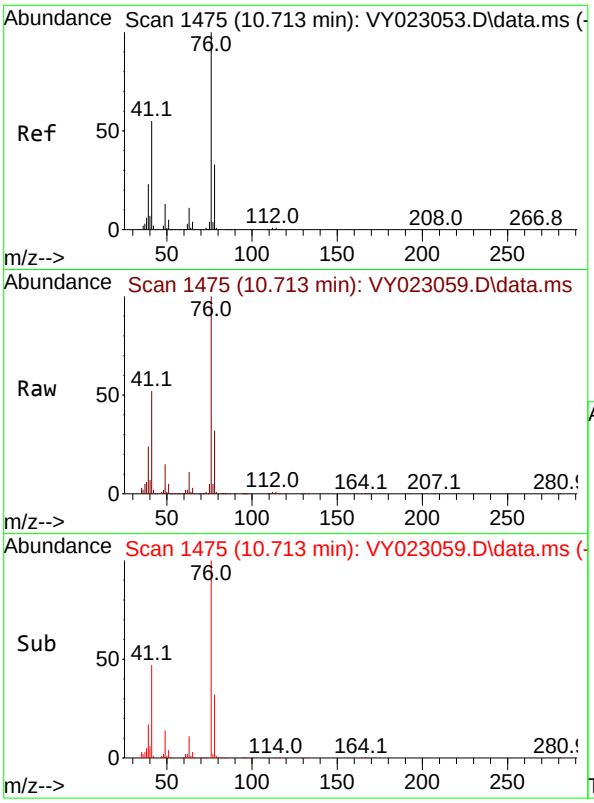




#56
Ethyl methacrylate
Concen: 48.194 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 69 Resp: 252654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 61.0 | 48.6 | 72.8 |
| 39 | 35.3 | 27.0 | 40.4 |



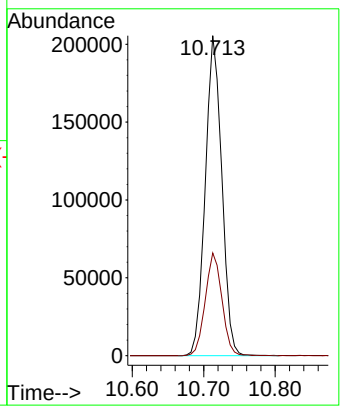


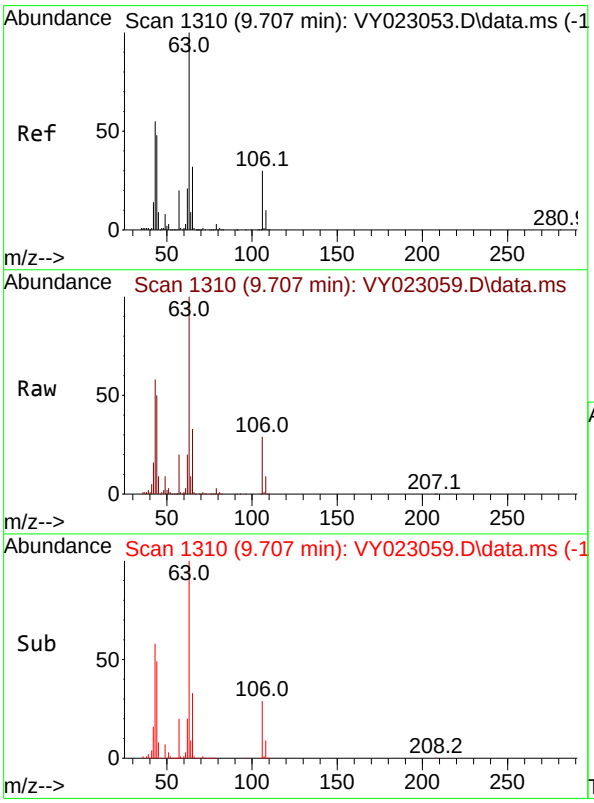

#57
1,3-Dichloropropane
Concen: 47.351 ug/l
RT: 10.713 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 76 Resp: 328997

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.5 | 26.0 | 39.0 |

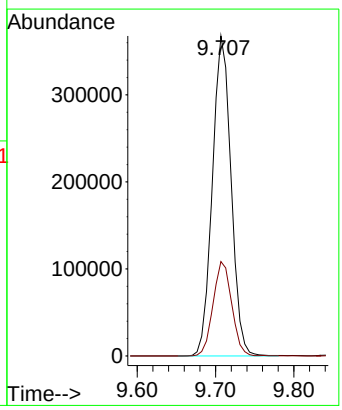


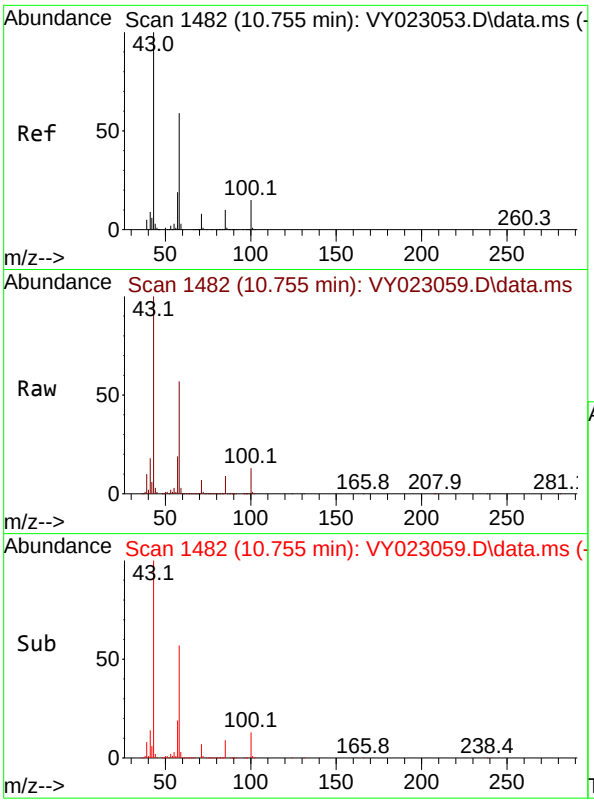




#58
2-Chloroethyl Vinyl ether
Concen: 246.593 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 63 Resp: 609788

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 29.4 | 23.2 | 34.8 |



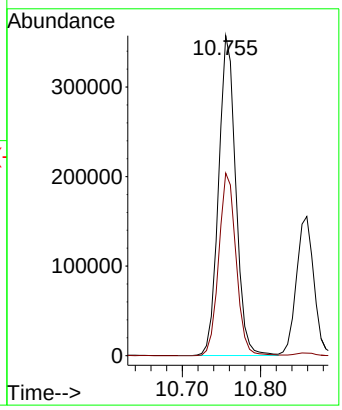


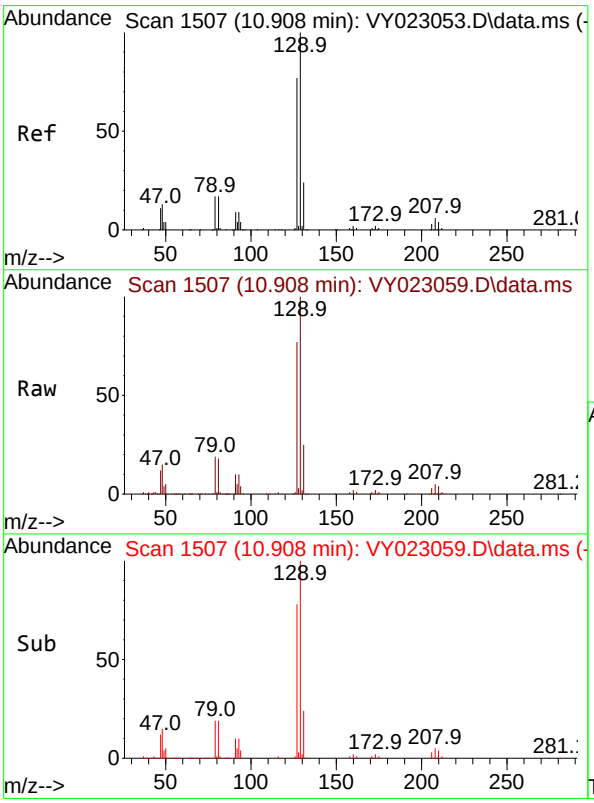

#59
2-Hexanone
Concen: 243.235 ug/l
RT: 10.755 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 545617

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 57.6 | 29.5 | 88.5 |

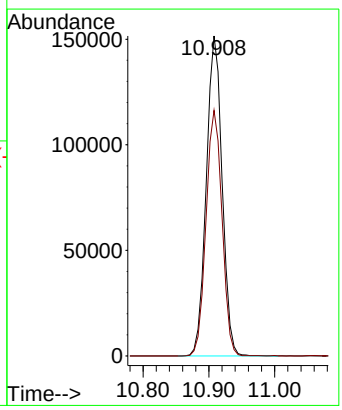


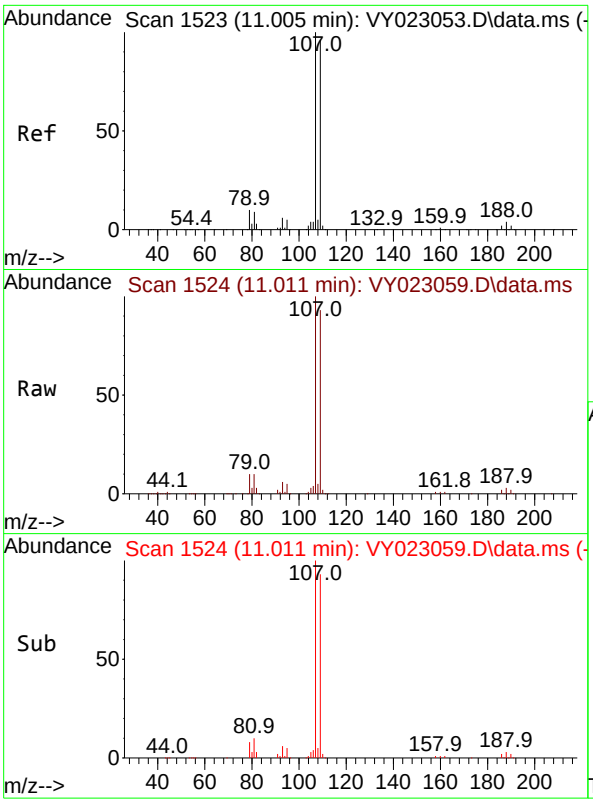




#60
Dibromochloromethane
Concen: 46.904 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:129 Resp: 253556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.6 | 38.5 | 115.5 |



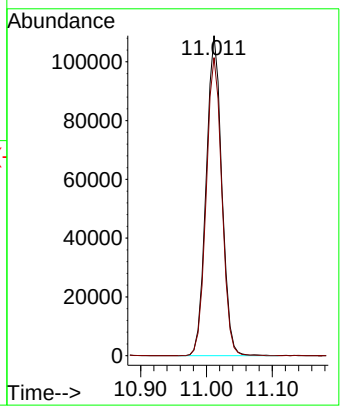


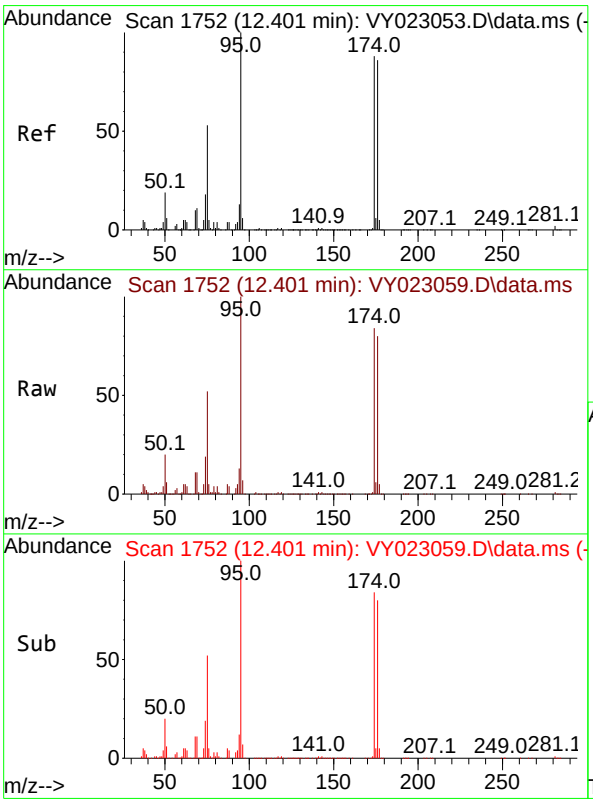

#61
1,2-Dibromoethane
Concen: 46.761 ug/l
RT: 11.011 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:107 Resp: 180061

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.2 | 75.6 | 113.4 |

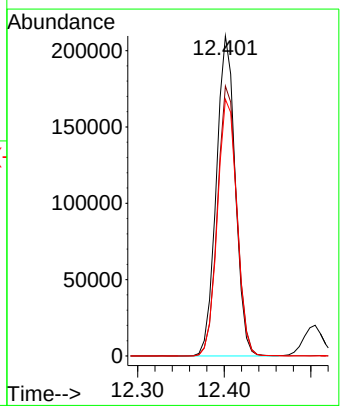


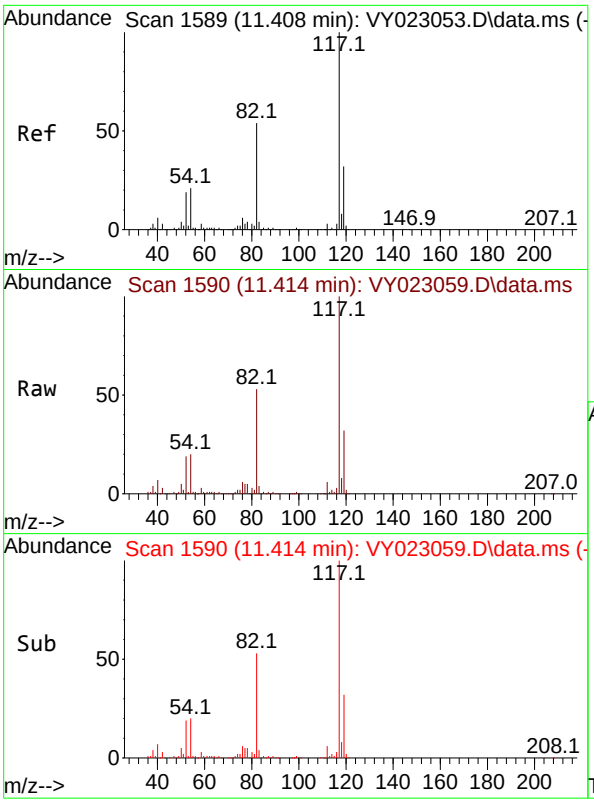




#62
4-Bromofluorobenzene
Concen: 50.020 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 95 Resp: 318073

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 85.9 | 0.0 | 171.6 |
| 176 | 82.6 | 0.0 | 167.6 |



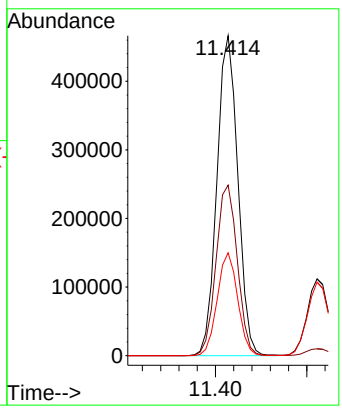


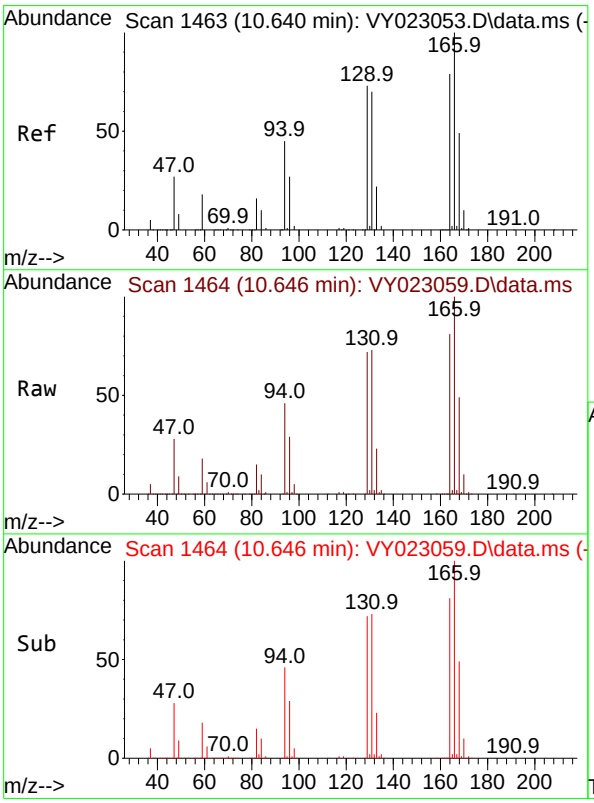

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:117 Resp: 741859

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 53.3 | 43.4 | 65.0 |
| 119 | 32.2 | 25.6 | 38.4 |

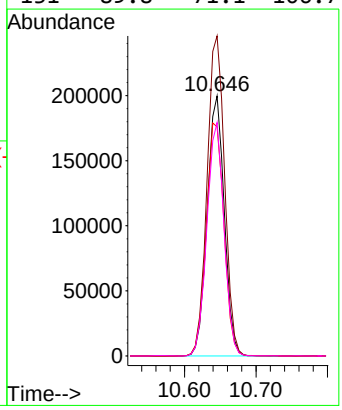


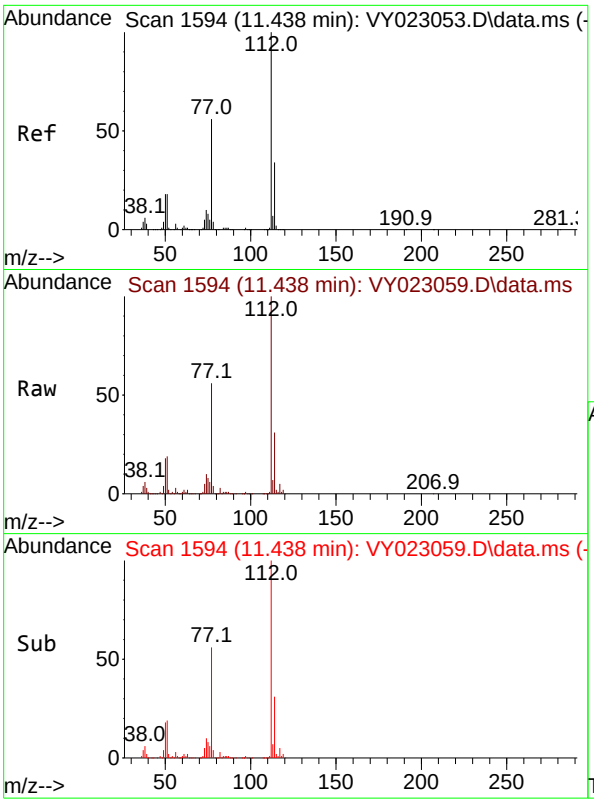




#64
Tetrachloroethene
Concen: 50.070 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:164 Resp: 331676

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 123.1 | 101.1 | 151.7 |
| 129 | 88.1 | 74.0 | 111.0 |
| 131 | 89.8 | 71.1 | 106.7 |



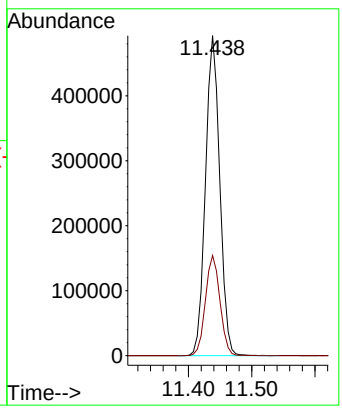


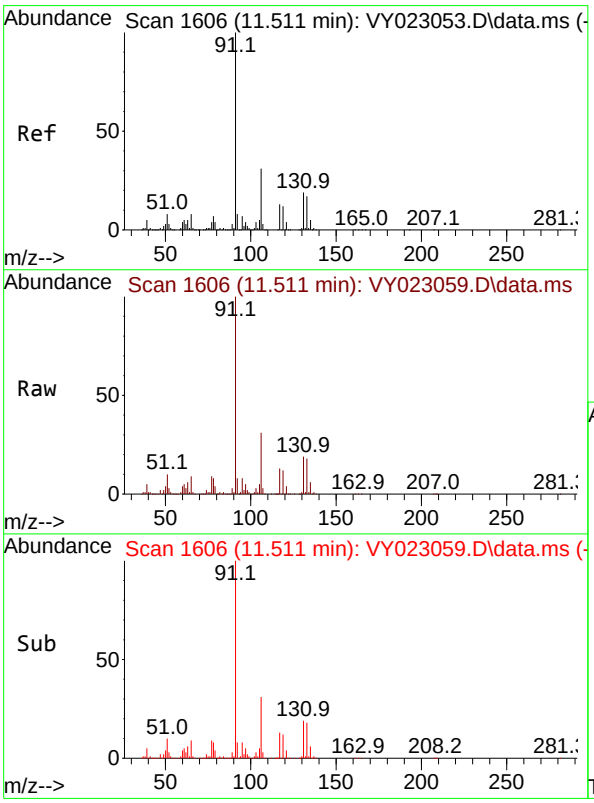

#65
Chlorobenzene
Concen: 48.346 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:112 Resp: 773624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.3 | 27.0 | 40.4 |

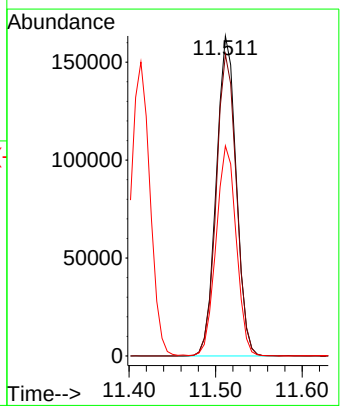


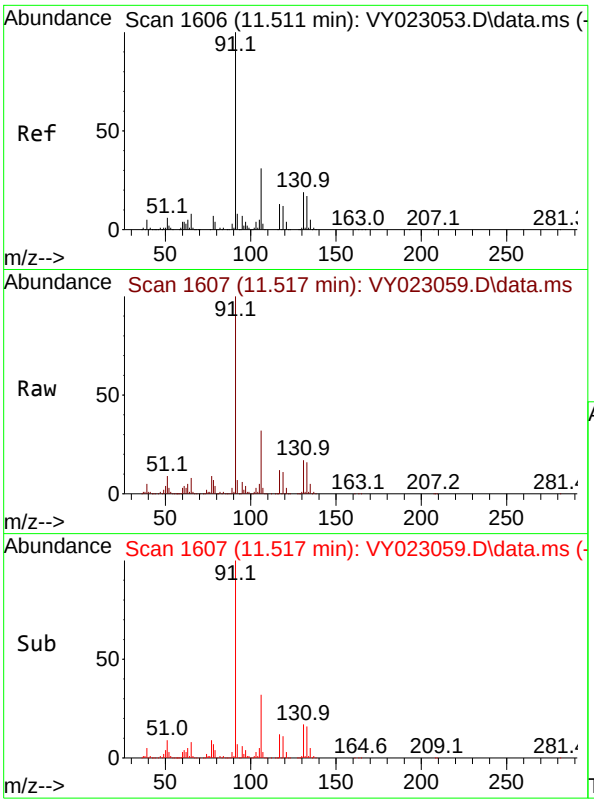




#66
1,1,1,2-Tetrachloroethane
Concen: 48.113 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:131 Resp: 261298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.3 | 46.9 | 140.6 |
| 119 | 66.5 | 33.2 | 99.6 |



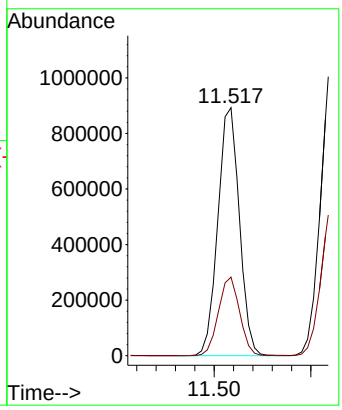


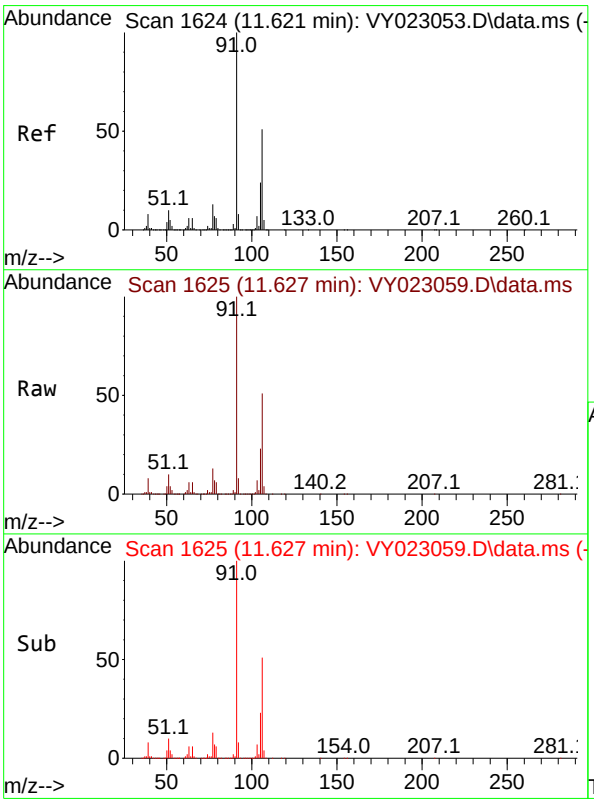

#67
Ethyl Benzene
Concen: 49.987 ug/l
RT: 11.517 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 91 Resp: 1376524

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.7 | 25.0 | 37.4 |

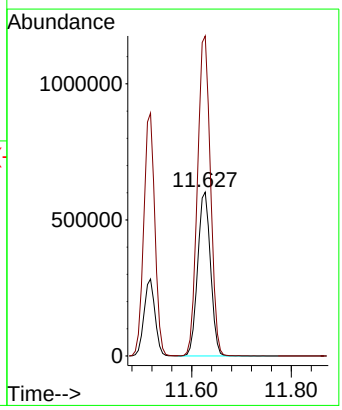


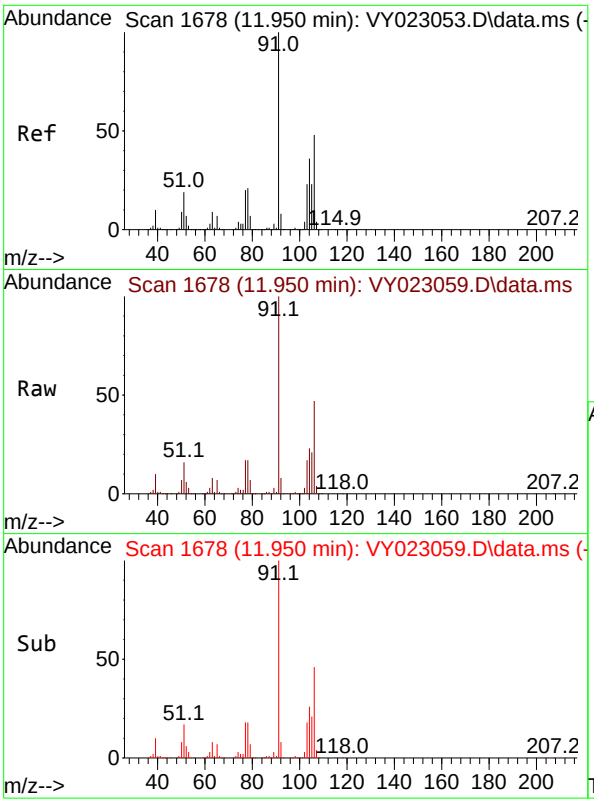




#68
m/p-Xylenes
Concen: 99.994 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:106 Resp: 1075458

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 197.3 | 158.6 | 238.0 |



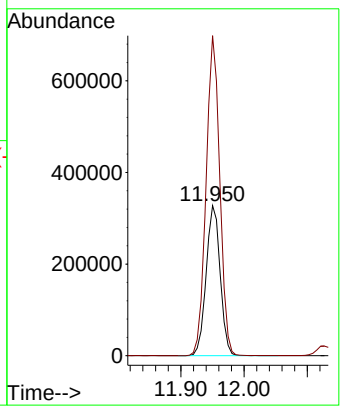


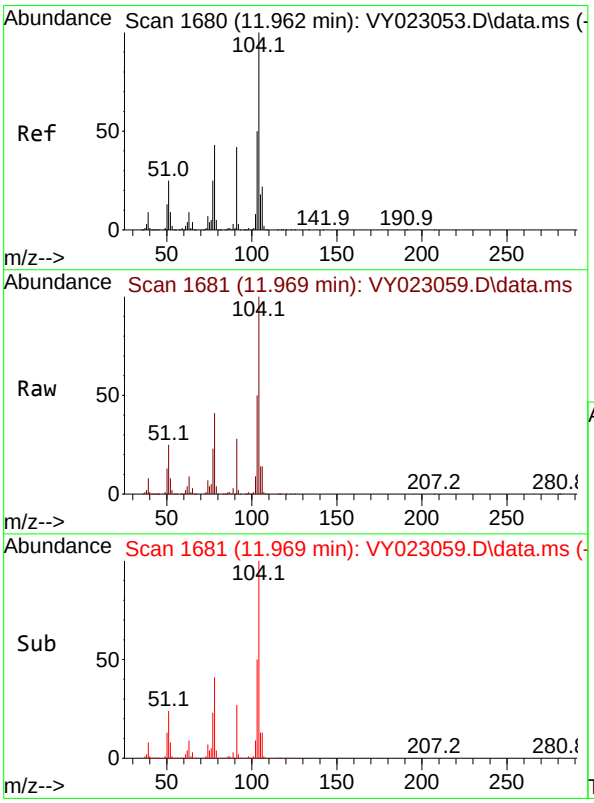

#69
o-Xylene
Concen: 50.162 ug/l
RT: 11.950 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:106 Resp: 505296

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 208.1 | 103.2 | 309.4 |

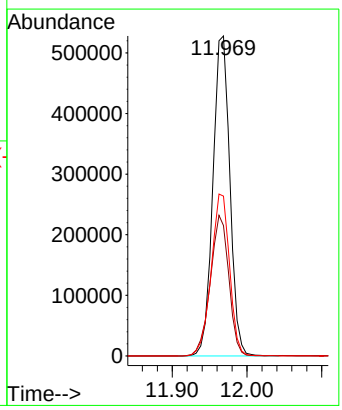


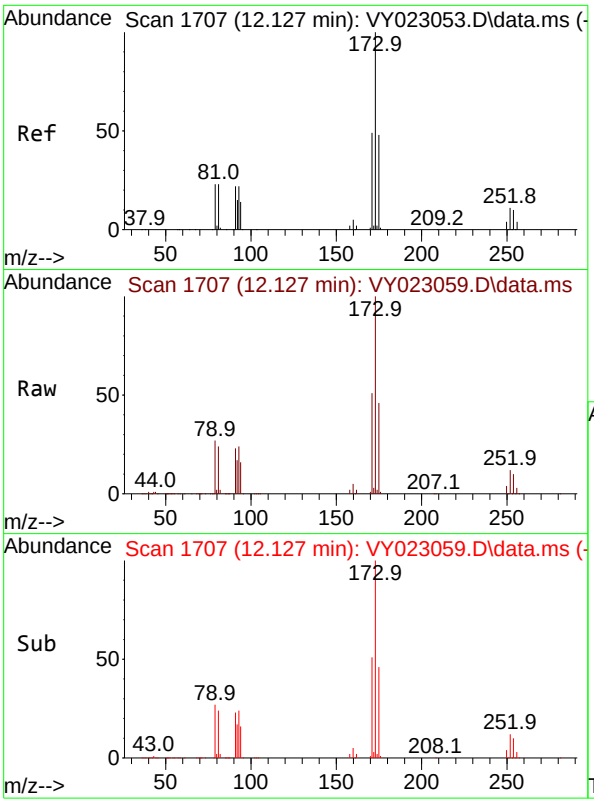




#70
Styrene
Concen: 50.595 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:104 Resp: 833474

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 47.8 | 38.5 | 57.7 |
| 103 | 54.9 | 43.7 | 65.5 |



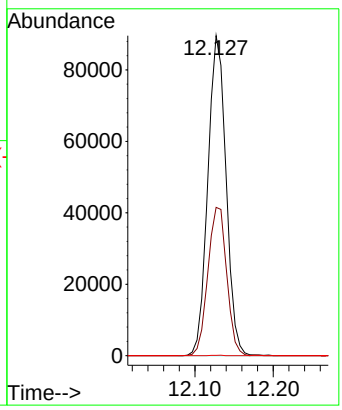


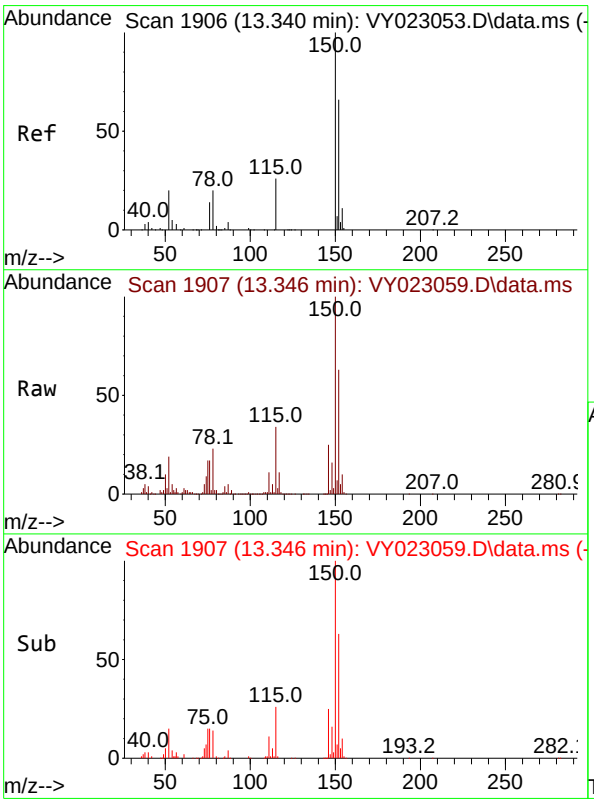

#71
Bromoform
Concen: 45.557 ug/l
RT: 12.127 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:173 Resp: 144602

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.9 | 23.9 | 71.7 |
| 254 | 0.1 | 0.1 | 0.1 |

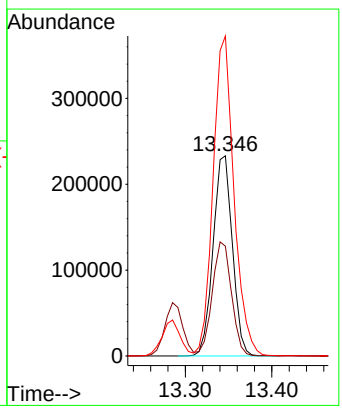


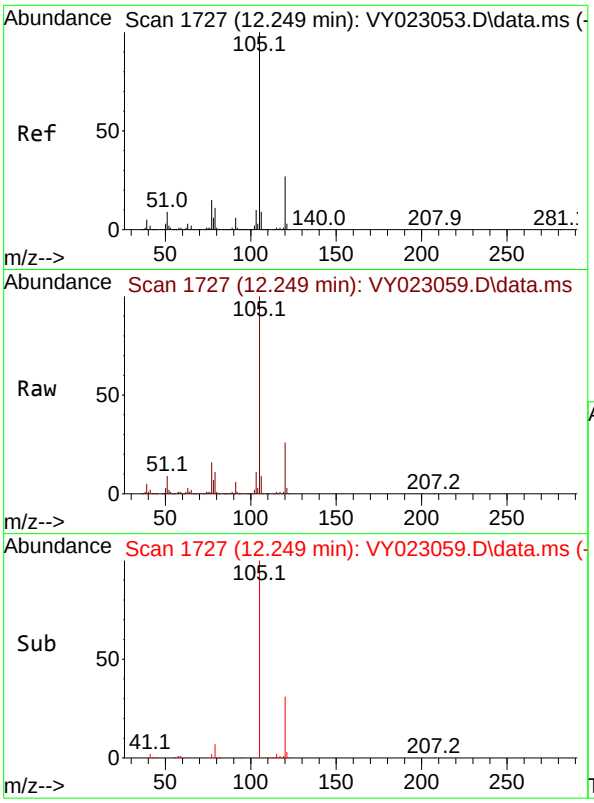




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:152 Resp: 361154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 56.8 | 28.2 | 84.6 |
| 150 | 172.3 | 0.0 | 348.0 |



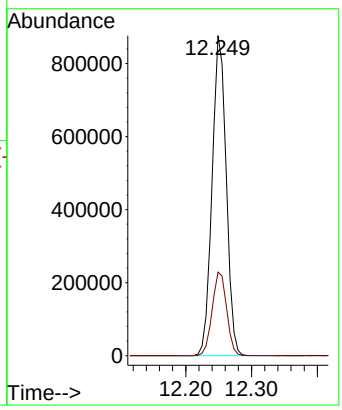


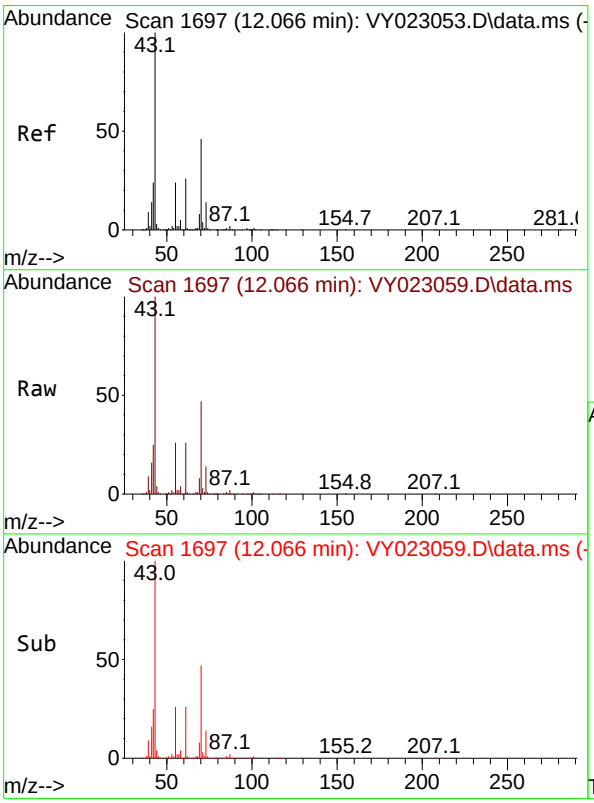

#73
Isopropylbenzene
Concen: 51.327 ug/l
RT: 12.249 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:105 Resp: 1308324

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.7 | 13.4 | 40.2 |

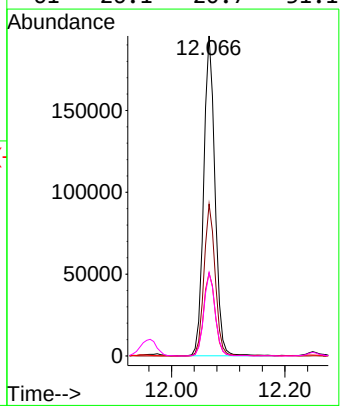


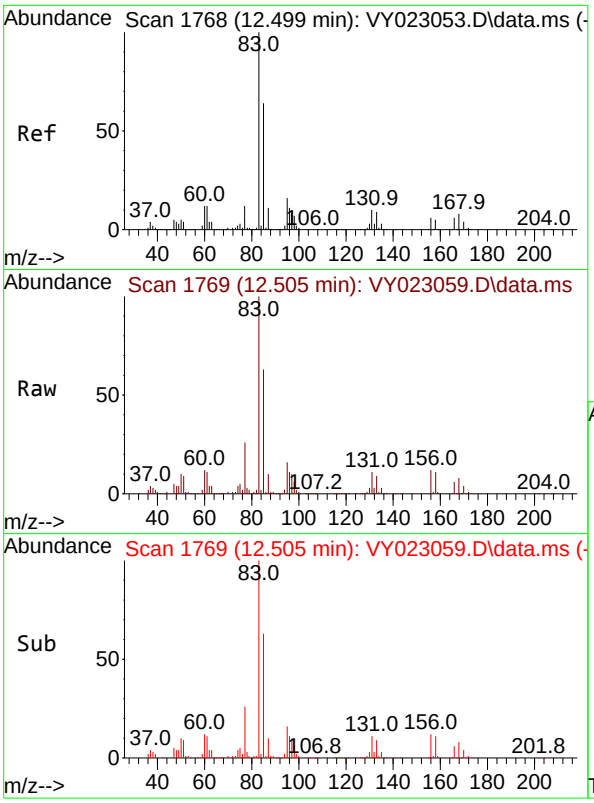




#74
N-amyl acetate
Concen: 49.922 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 43 Resp: 269858

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 47.1 | 37.5 | 56.3 |
| 55 | 26.7 | 20.7 | 31.1 |
| 61 | 26.1 | 20.7 | 31.1 |



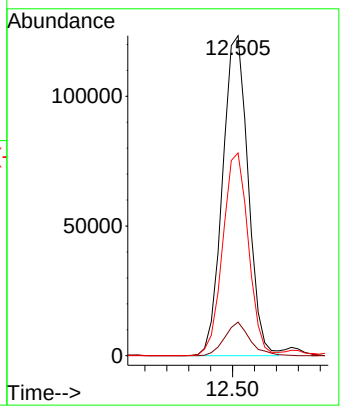


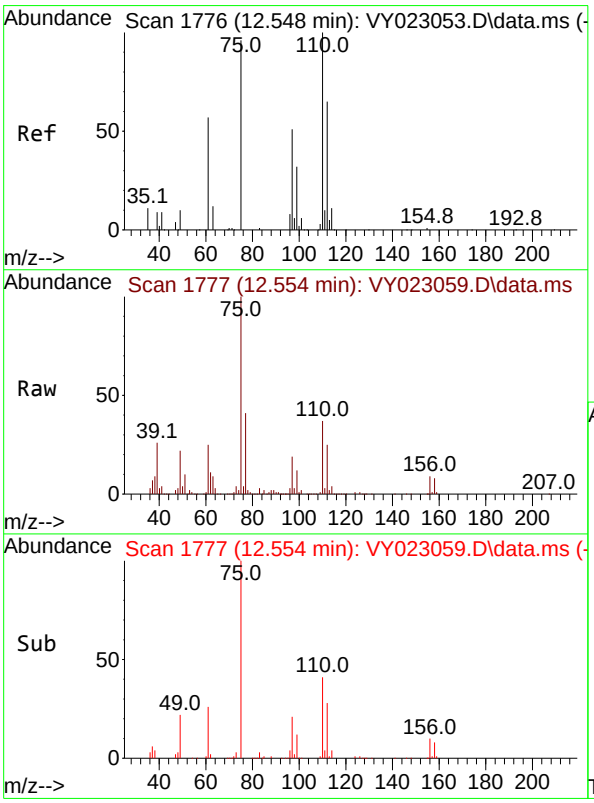

#75
1,1,2,2-Tetrachloroethane
Concen: 45.905 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 83 Resp: 199792

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.3 | 5.1 | 15.3 |
| 85 | 63.6 | 31.8 | 95.3 |

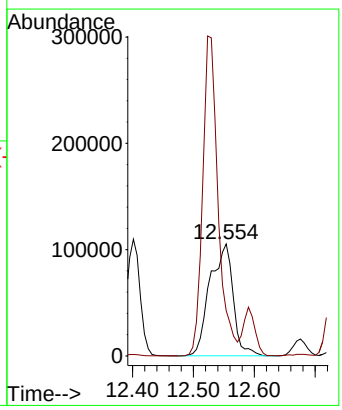


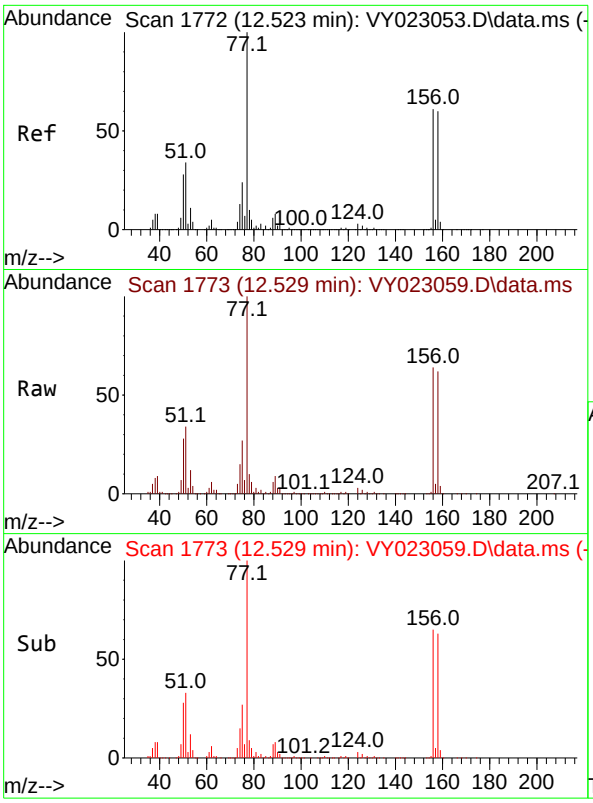




#76
1,2,3-Trichloropropane
Concen: 80.243 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 75 Resp: 279690

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |



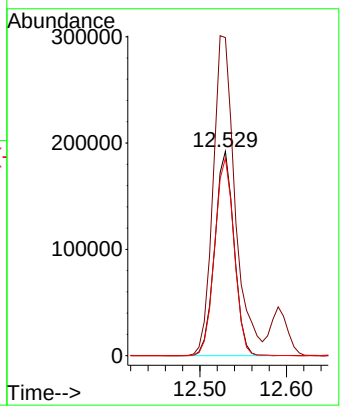


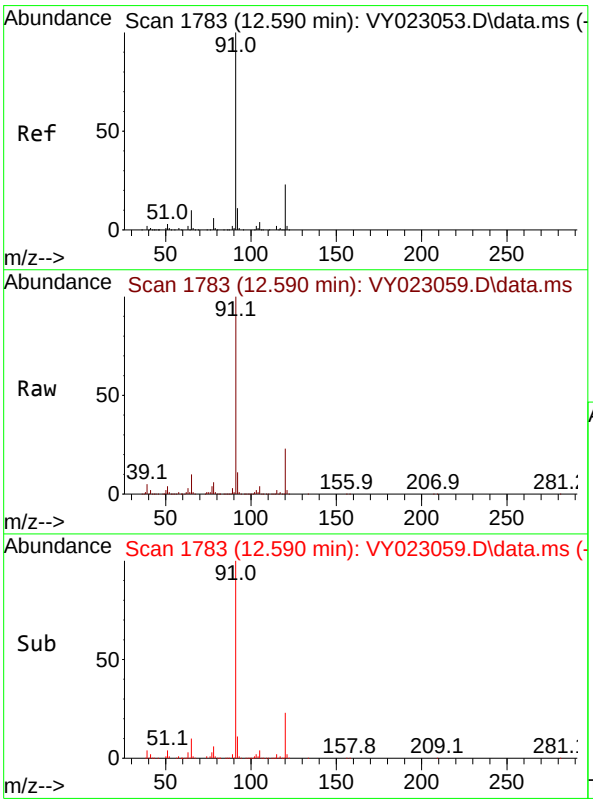

#77
Bromobenzene
Concen: 48.794 ug/l
RT: 12.529 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:156 Resp: 296723

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 179.1 | 88.1 | 264.4 |
| 158 | 97.6 | 48.0 | 144.0 |

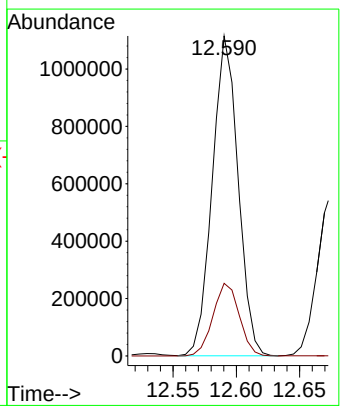


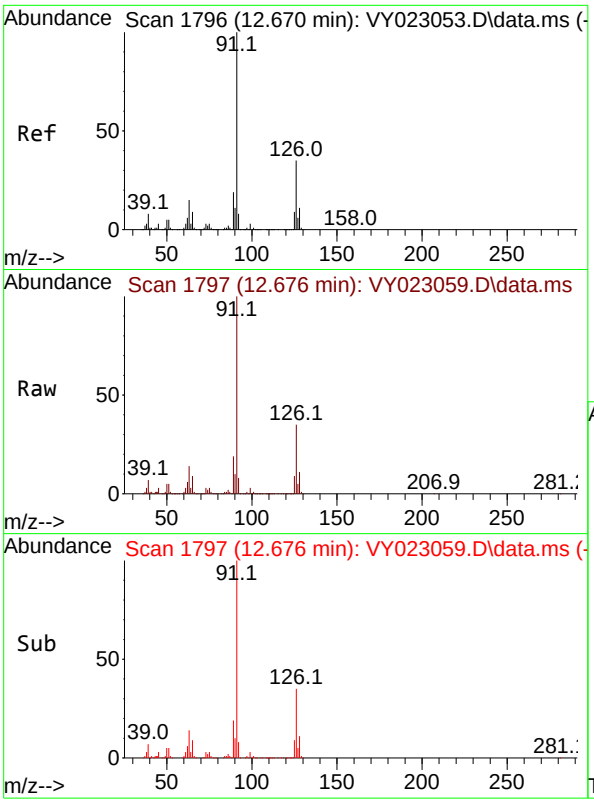




#78
n-propylbenzene
Concen: 52.061 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 91 Resp: 1579912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 23.1 | 11.5 | 34.5 |



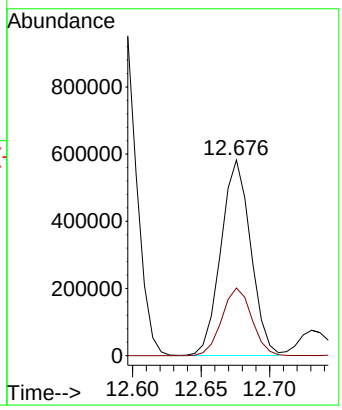


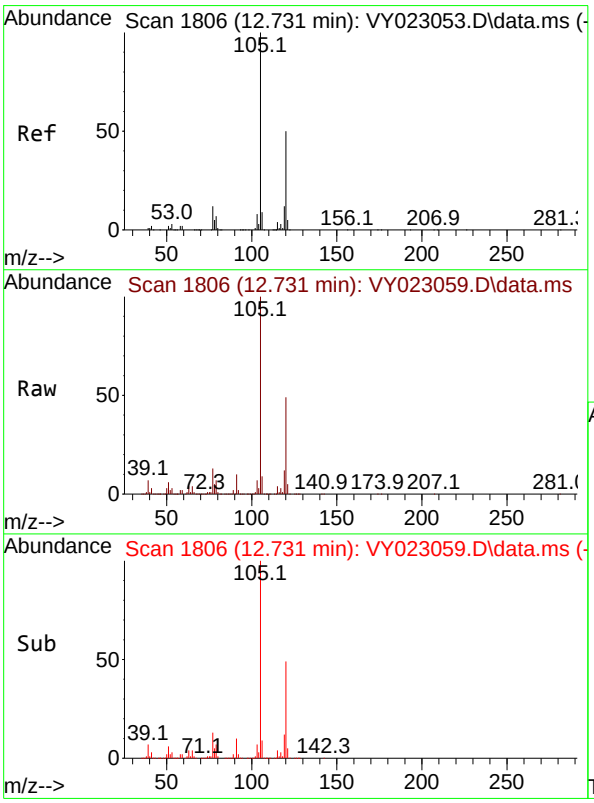

#79
2-Chlorotoluene
Concen: 50.703 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 91 Resp: 881616

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.8 | 17.4 | 52.3 |

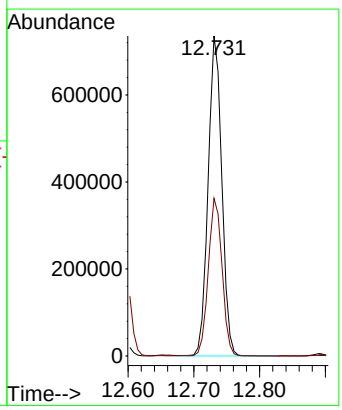


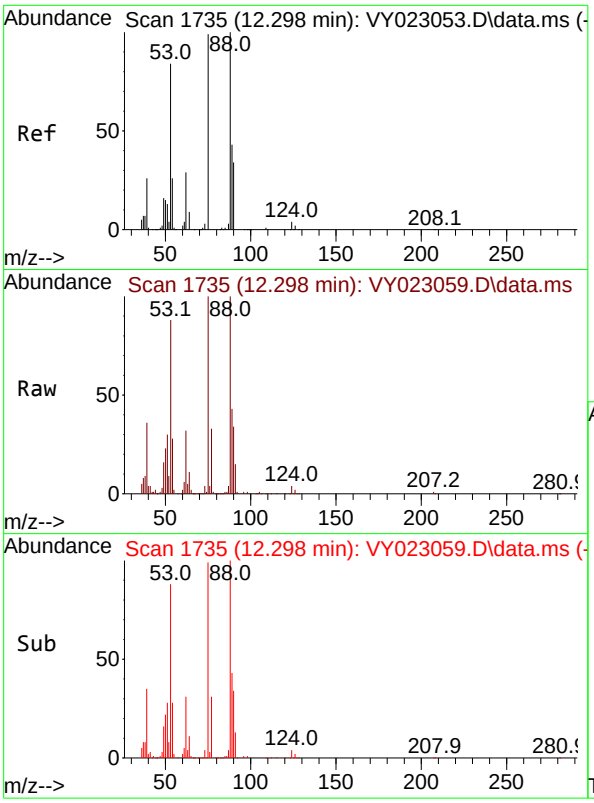




#80
1,3,5-Trimethylbenzene
Concen: 51.563 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:105 Resp: 1062229

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.6 | 24.8 | 74.4 |



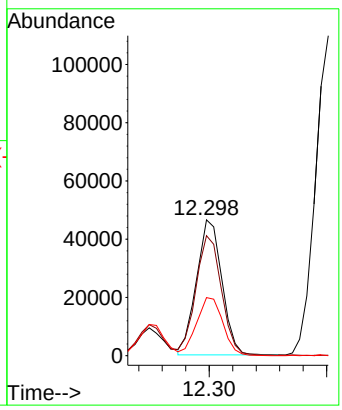


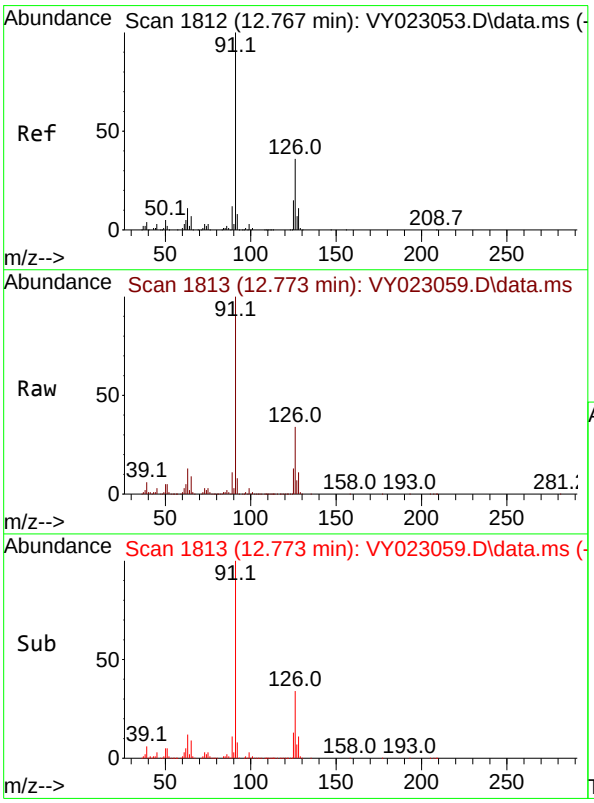

#81
trans-1,4-Dichloro-2-butene
Concen: 48.354 ug/l
RT: 12.298 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 75 Resp: 69624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 89.4 | 70.8 | 106.2 |
| 89 | 44.8 | 38.1 | 57.1 |

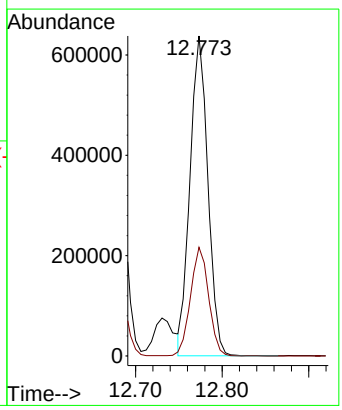


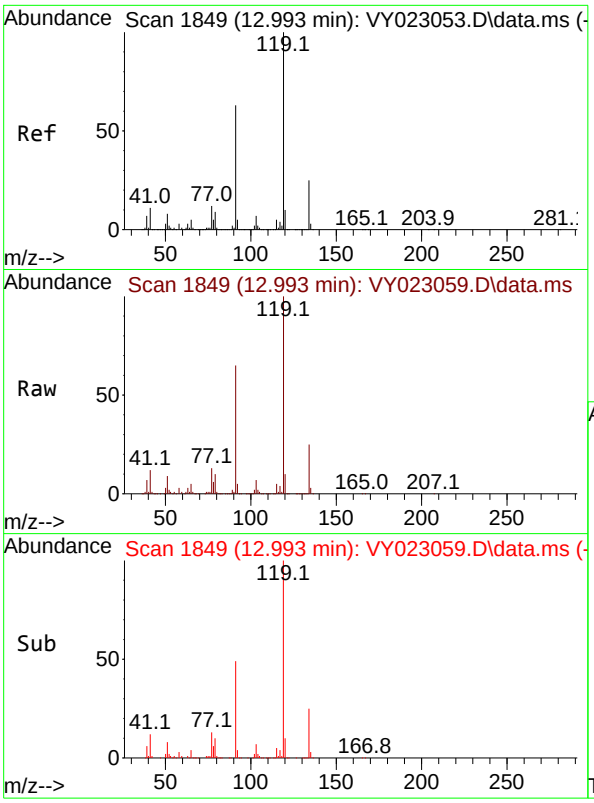




#82
4-Chlorotoluene
Concen: 50.659 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 91 Resp: 913772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.5 | 17.3 | 52.0 |



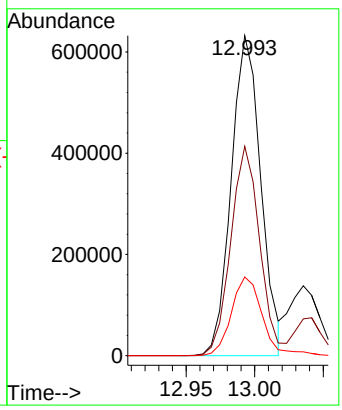


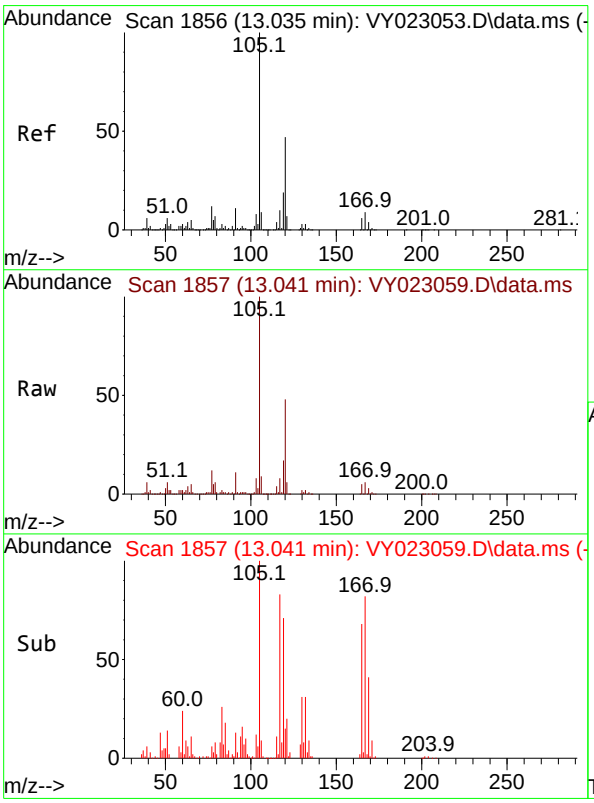

#83
tert-Butylbenzene
Concen: 51.072 ug/l
RT: 12.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:119 Resp: 950248

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 64.3 | 31.6 | 94.8 |
| 134 | 25.8 | 12.9 | 38.7 |

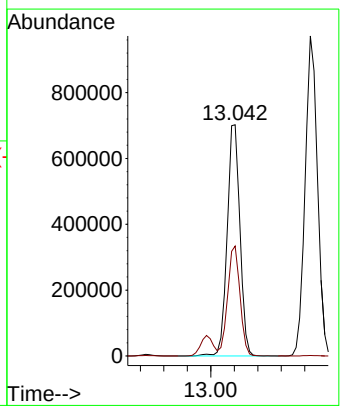


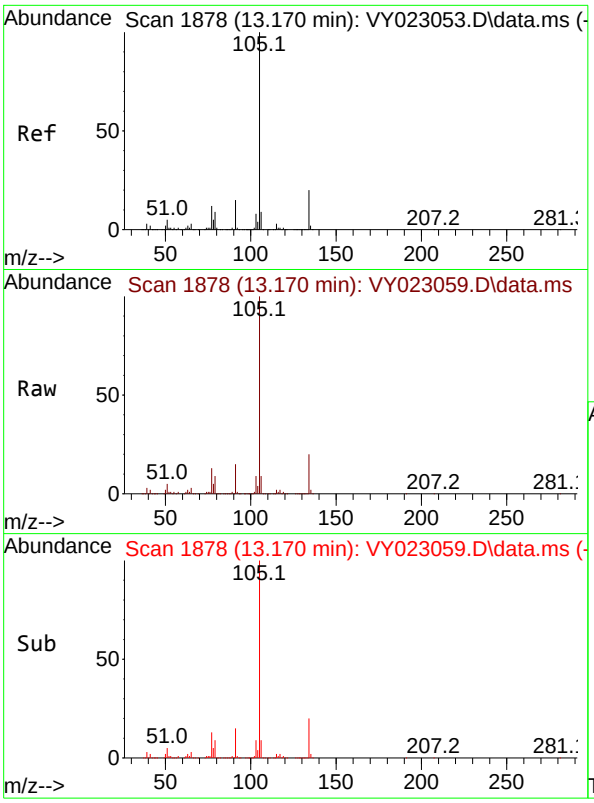




#84
1,2,4-Trimethylbenzene
Concen: 51.723 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:105 Resp: 1060687

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.0 | 23.0 | 69.0 |



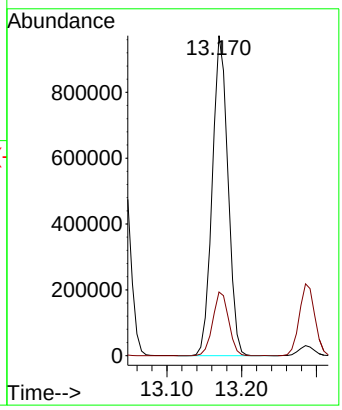


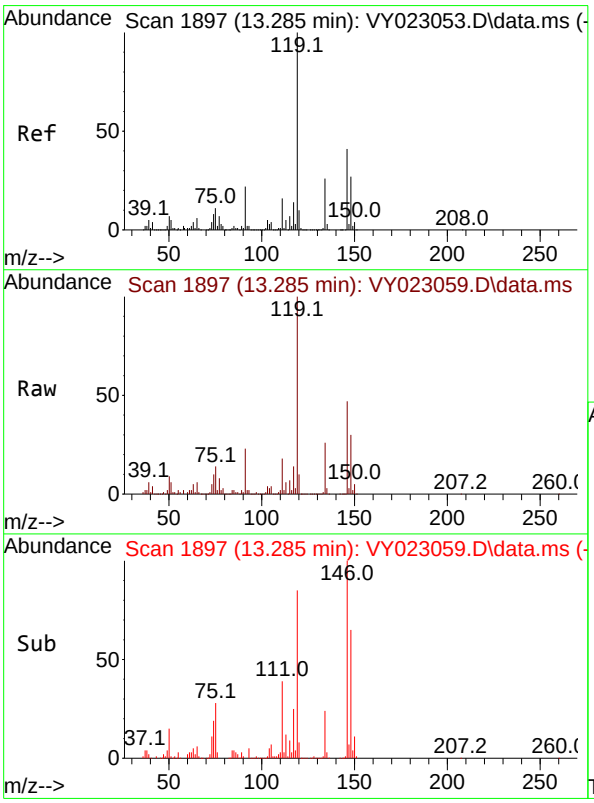

#85
sec-Butylbenzene
Concen: 51.748 ug/l
RT: 13.170 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:105 Resp: 1414361

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.2 | 10.2 | 30.4 |

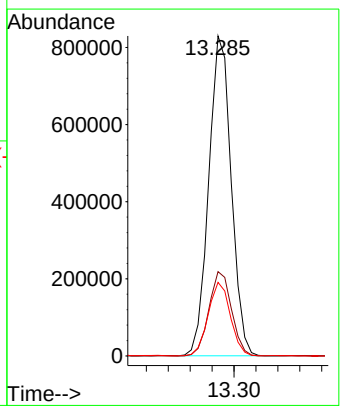


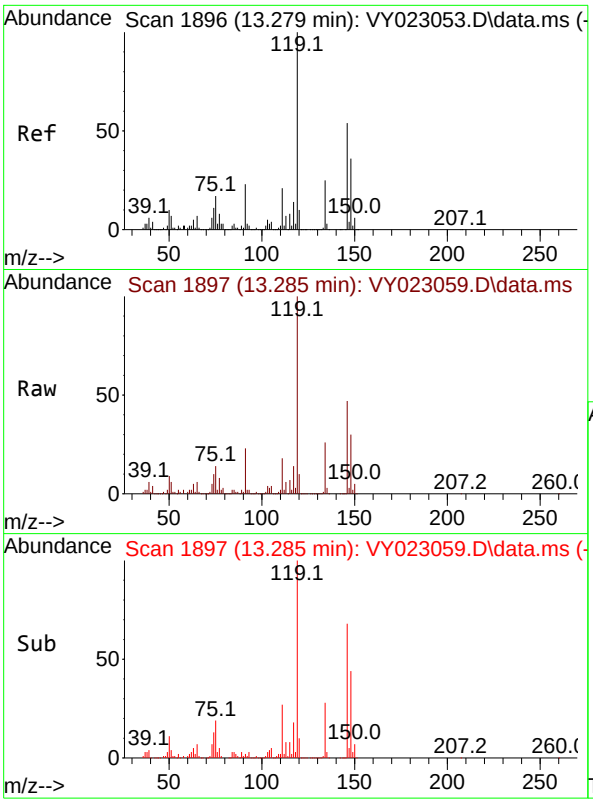




#86
p-Isopropyltoluene
Concen: 52.130 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:119 Resp: 1182656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.4 | 13.2 | 39.6 |
| 91 | 22.7 | 11.3 | 33.8 |



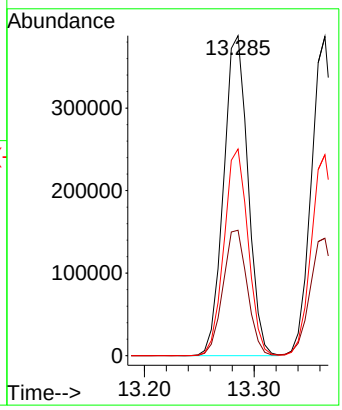


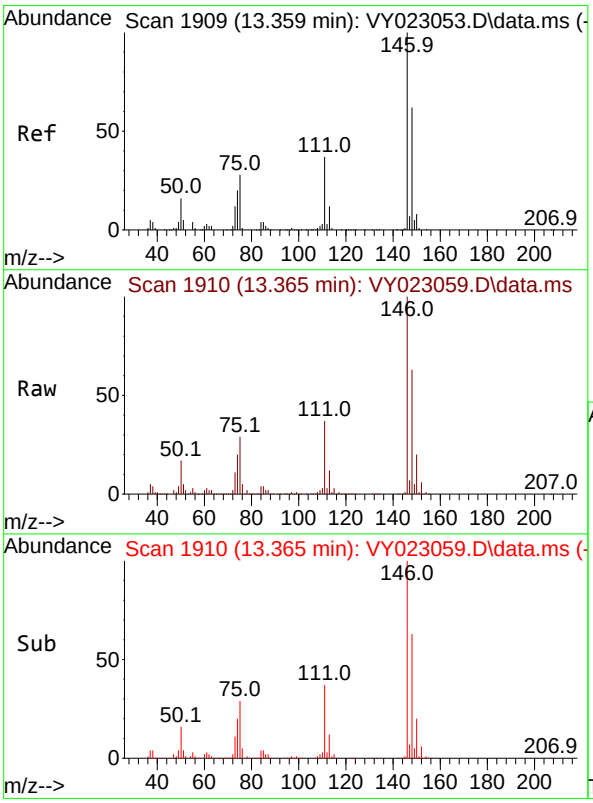

#87
1,3-Dichlorobenzene
Concen: 49.866 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:146 Resp: 598001

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.2 | 19.6 | 58.7 |
| 148 | 63.7 | 32.5 | 97.5 |

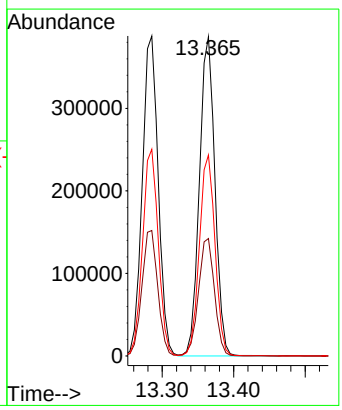


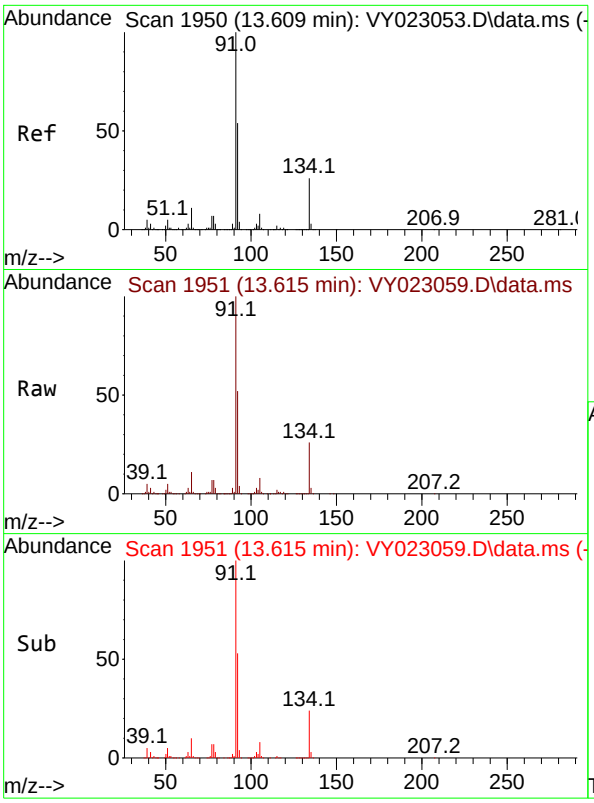




#88
1,4-Dichlorobenzene
Concen: 48.956 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:146 Resp: 582375

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 37.9 | 19.1 | 57.1 |
| 148 | 63.5 | 31.6 | 94.7 |



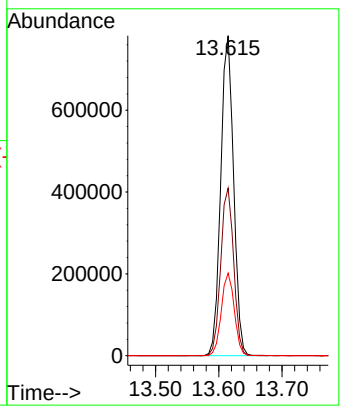


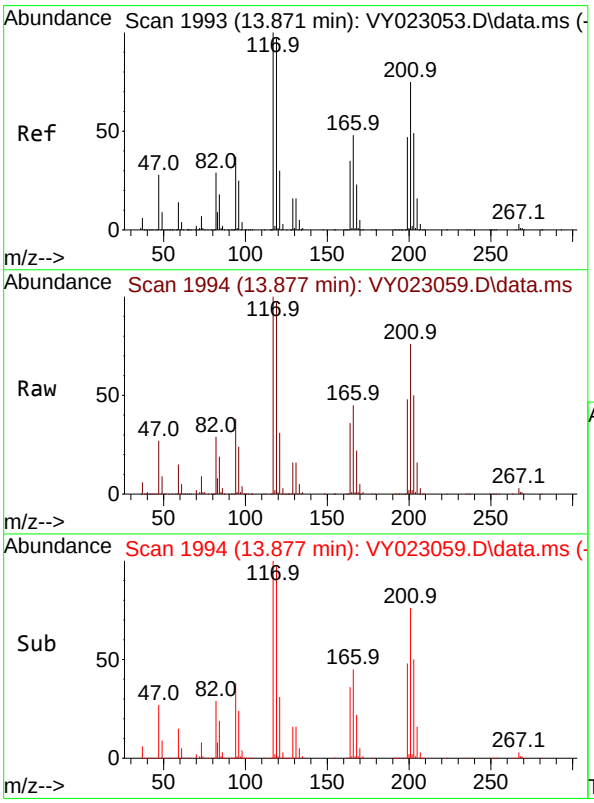

#89
n-Butylbenzene
Concen: 52.737 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 91 Resp: 1098867

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.8 | 26.9 | 80.7 |
| 134 | 25.9 | 13.2 | 39.5 |

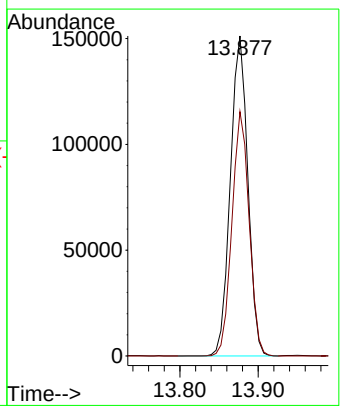


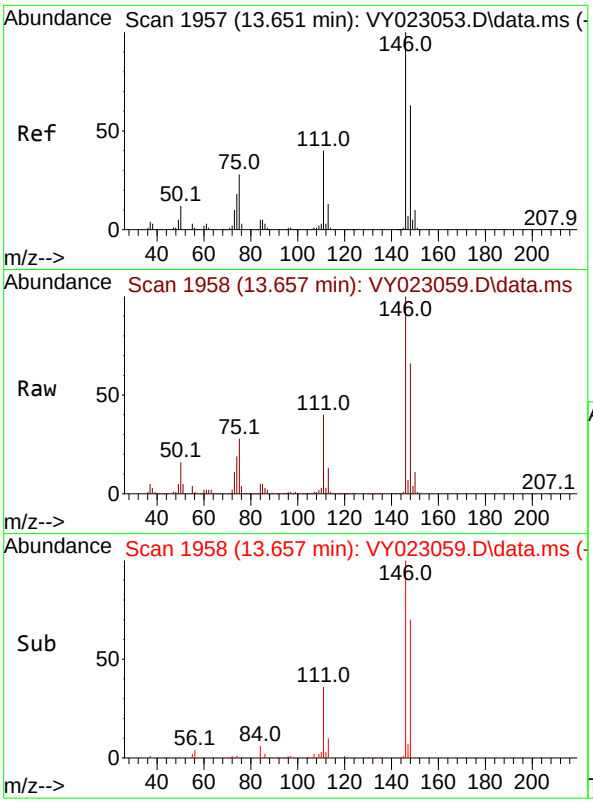




#90
Hexachloroethane
Concen: 50.439 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:117 Resp: 234252

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 75.0 | 38.4 | 115.1 |



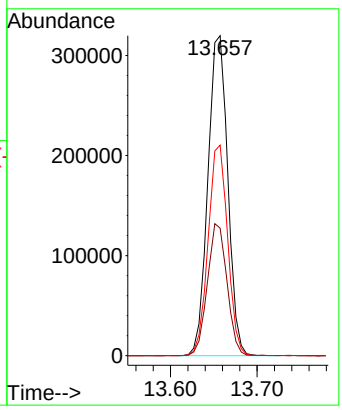


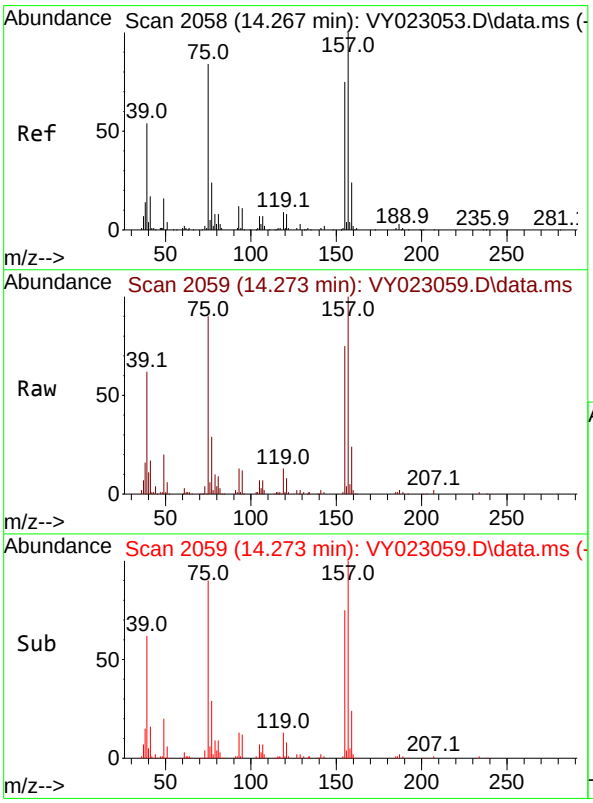

#91
1,2-Dichlorobenzene
Concen: 48.490 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:146 Resp: 509973

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.7 | 20.3 | 60.8 |
| 148 | 64.7 | 32.2 | 96.6 |

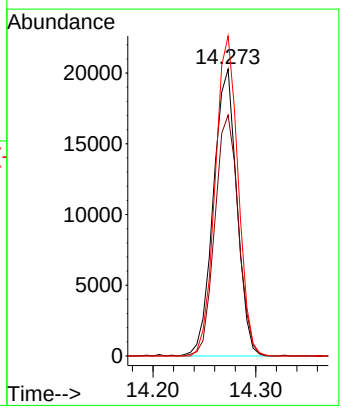


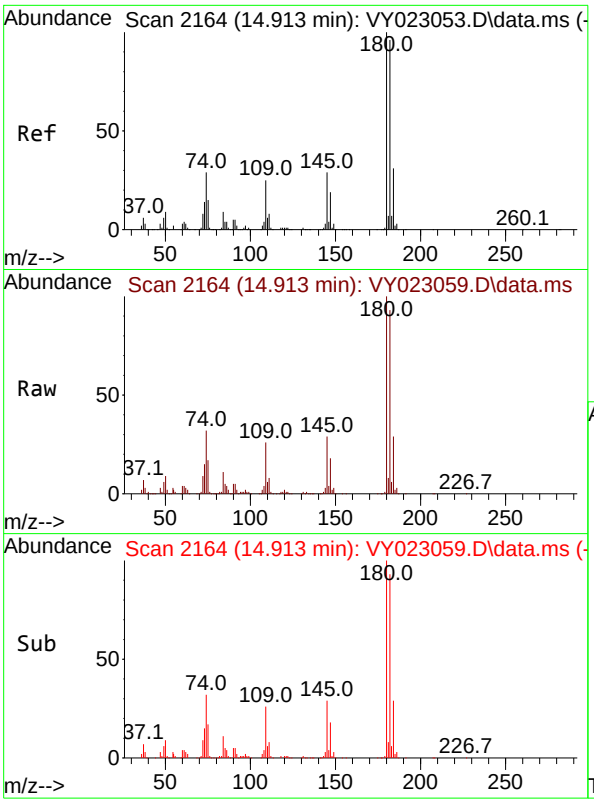




#92
1,2-Dibromo-3-Chloropropane
Concen: 47.451 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion: 75 Resp: 32155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 83.9 | 43.9 | 131.6 |
| 157 | 108.4 | 57.2 | 171.6 |



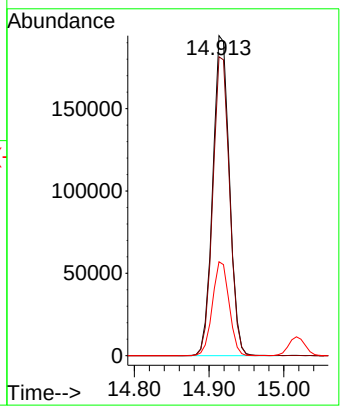


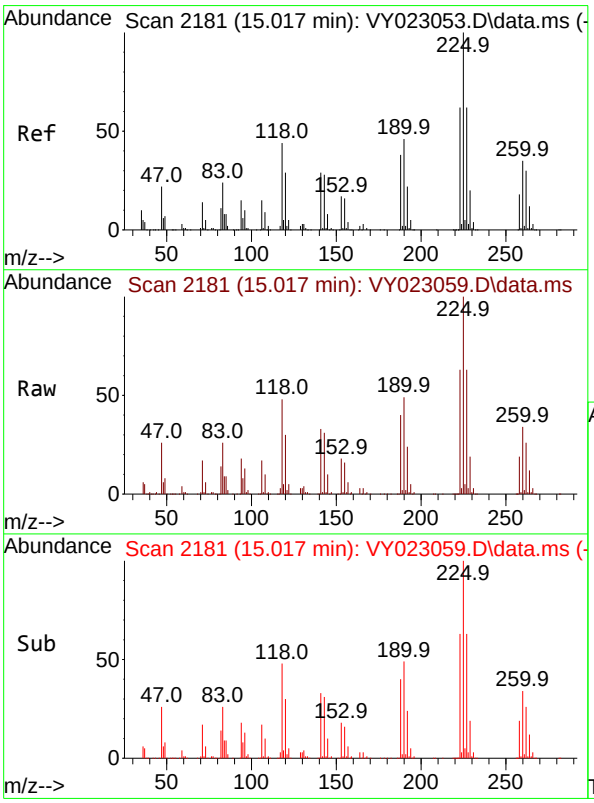

#93
1,2,4-Trichlorobenzene
Concen: 48.250 ug/l
RT: 14.913 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:180 Resp: 300082

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.0 | 46.8 | 140.4 |
| 145 | 29.5 | 14.4 | 43.4 |

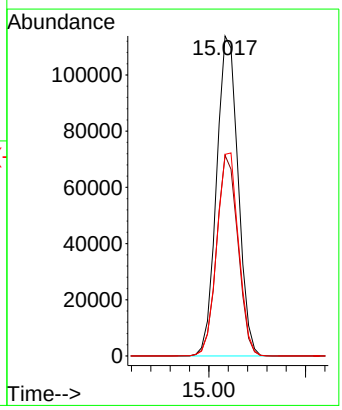


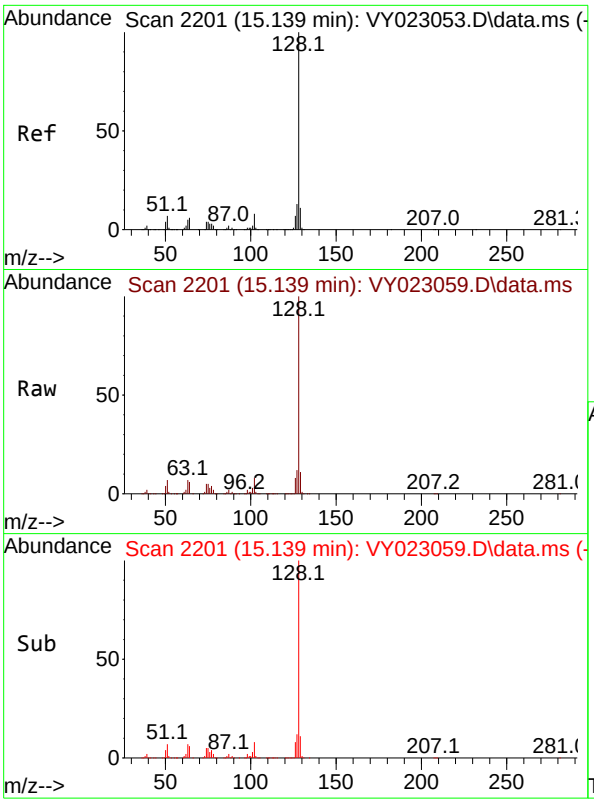




#94
Hexachlorobutadiene
Concen: 48.048 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:225 Resp: 175599

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.0 | 31.3 | 93.8 |
| 227 | 64.2 | 31.5 | 94.5 |



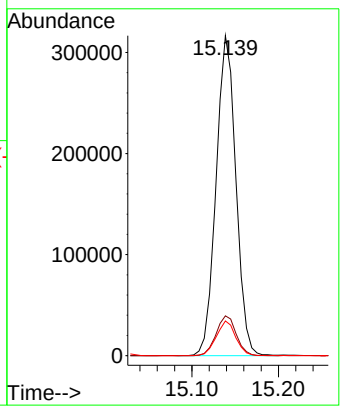


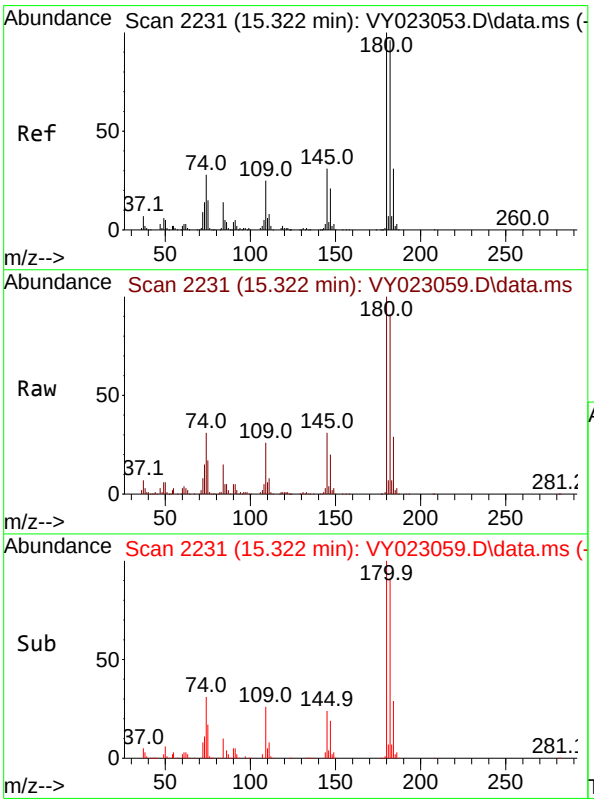

#95
Naphthalene
Concen: 47.413 ug/l
RT: 15.139 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:128 Resp: 502833

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.7 | 10.4 | 15.6 |
| 129 | 10.7 | 9.0 | 13.4 |

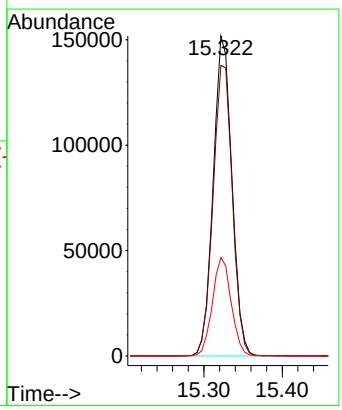



#96
1,2,3-Trichlorobenzene
Concen: 47.023 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. -0.000 min
Lab File: VY023059.D
Acq: 13 Aug 2025 09:37

Tgt Ion:180 Resp: 252008

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.7 | 47.9 | 143.7 |
| 145 | 30.9 | 15.9 | 47.7 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023061.D
Acq On : 13 Aug 2025 11:09
Operator : SY/MD
Sample : VY0813SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Quant Time: Aug 14 01:20:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 478194 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.609 | 114 | 775826 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 675926 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 325106 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.055 | 65 | 229361 | 50.326 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 100.660% | | | |
| 35) Dibromofluoromethane | 7.628 | 113 | 229320 | 49.398 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 98.800% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 906626 | 49.992 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 99.980% | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 279619 | 47.943 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 95.880% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.861 | 85 | 86360 | 22.125 | ug/l | 98 |
| 3) Chloromethane | 2.068 | 50 | 149822 | 23.698 | ug/l | 99 |
| 4) Vinyl Chloride | 2.202 | 62 | 184278 | 23.580 | ug/l | 99 |
| 5) Bromomethane | 2.586 | 94 | 139698 | 23.936 | ug/l | 95 |
| 6) Chloroethane | 2.726 | 64 | 120677 | 23.227 | ug/l | 100 |
| 7) Trichlorofluoromethane | 3.049 | 101 | 213662 | 22.485 | ug/l | 98 |
| 8) Diethyl Ether | 3.452 | 74 | 51671 | 20.553 | ug/l | 98 |
| 9) 1,1,2-Trichlorotrifluo... | 3.812 | 101 | 101004 | 21.545 | ug/l | 100 |
| 10) Methyl Iodide | 4.001 | 142 | 97379 | 19.249 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.854 | 59 | 27933 | 89.450 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 3.781 | 96 | 98921 | 21.467 | ug/l | 97 |
| 13) Acrolein | 3.647 | 56 | 42693 | 93.352 | ug/l | 95 |
| 14) Allyl chloride | 4.372 | 41 | 143464 | 21.158 | ug/l | 99 |
| 15) Acrylonitrile | 5.049 | 53 | 100833 | 98.653 | ug/l | 98 |
| 16) Acetone | 3.866 | 43 | 99920 | 101.199 | ug/l | 96 |
| 17) Carbon Disulfide | 4.098 | 76 | 326606 | 21.737 | ug/l | 98 |
| 18) Methyl Acetate | 4.379 | 43 | 55687 | 18.953 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.110 | 73 | 237530 | 19.892 | ug/l | 100 |
| 20) Methylene Chloride | 4.610 | 84 | 118853 | 21.623 | ug/l | 99 |
| 21) trans-1,2-Dichloroethene | 5.110 | 96 | 109941 | 21.230 | ug/l | 95 |
| 22) Diisopropyl ether | 6.012 | 45 | 313978 | 21.310 | ug/l | 96 |
| 23) Vinyl Acetate | 5.951 | 43 | 814993 | 100.034 | ug/l | 98 |
| 24) 1,1-Dichloroethane | 5.909 | 63 | 192114 | 21.326 | ug/l | 99 |
| 25) 2-Butanone | 6.890 | 43 | 130779 | 97.389 | ug/l | 96 |
| 26) 2,2-Dichloropropane | 6.878 | 77 | 169264 | 21.776 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 6.884 | 96 | 126291 | 21.095 | ug/l | 99 |
| 28) Bromochloromethane | 7.238 | 49 | 74346 | 20.802 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.262 | 42 | 79003 | 94.913 | ug/l | 97 |
| 30) Chloroform | 7.415 | 83 | 200297 | 21.559 | ug/l | 95 |
| 31) Cyclohexane | 7.695 | 56 | 173959 | 20.493 | ug/l | 100 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 176542 | 21.416 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 7.829 | 75 | 142922 | 20.716 | ug/l | 98 |
| 37) Ethyl Acetate | 6.982 | 43 | 55643 | 19.200 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.811 | 117 | 154916 | 20.674 | ug/l | 100 |
| 39) Methylcyclohexane | 9.103 | 83 | 184052 | 20.258 | ug/l | 99 |
| 40) Benzene | 8.073 | 78 | 446973 | 21.020 | ug/l | 99 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023061.D
Acq On : 13 Aug 2025 11:09
Operator : SY/MD
Sample : VY0813SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Quant Time: Aug 14 01:20:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.213 | 41 | 27413 | 16.390 ug/l # | 88 |
| 42) 1,2-Dichloroethane | 8.152 | 62 | 114299 | 20.668 ug/l | 98 |
| 43) Isopropyl Acetate | 8.195 | 43 | 108405 | 18.507 ug/l | 98 |
| 44) Trichloroethene | 8.859 | 130 | 113487 | 20.652 ug/l | 94 |
| 45) 1,2-Dichloropropane | 9.134 | 63 | 103105 | 21.073 ug/l | 97 |
| 46) Dibromomethane | 9.225 | 93 | 57310 | 20.408 ug/l | 98 |
| 47) Bromodichloromethane | 9.420 | 83 | 151024 | 20.900 ug/l | 100 |
| 48) Methyl methacrylate | 9.219 | 41 | 51033 | 18.207 ug/l | 95 |
| 49) 1,4-Dioxane | 9.225 | 88 | 13354 | 405.561 ug/l | 99 |
| 51) 4-Methyl-2-Pentanone | 9.993 | 43 | 281551 | 93.183 ug/l | 99 |
| 52) Toluene | 10.164 | 92 | 280495 | 20.769 ug/l | 100 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 128144 | 19.584 ug/l | 100 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 157108 | 20.305 ug/l | 98 |
| 55) 1,1,2-Trichloroethane | 10.566 | 97 | 73477 | 19.554 ug/l | 97 |
| 56) Ethyl methacrylate | 10.438 | 69 | 88174 | 18.338 ug/l | 97 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 129029 | 20.247 ug/l | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 214069 | 94.383 ug/l | 100 |
| 59) 2-Hexanone | 10.755 | 43 | 191315 | 92.987 ug/l | 97 |
| 60) Dibromochloromethane | 10.908 | 129 | 97950 | 19.755 ug/l | 99 |
| 61) 1,2-Dibromoethane | 11.011 | 107 | 69337 | 19.632 ug/l | 99 |
| 64) Tetrachloroethene | 10.640 | 164 | 134131 | 22.223 ug/l | 98 |
| 65) Chlorobenzene | 11.438 | 112 | 297874 | 20.431 ug/l | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 11.511 | 131 | 101895 | 20.592 ug/l | 99 |
| 67) Ethyl Benzene | 11.511 | 91 | 512586 | 20.430 ug/l | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 399348 | 40.752 ug/l | 98 |
| 69) o-Xylene | 11.950 | 106 | 184155 | 20.065 ug/l | 98 |
| 70) Styrene | 11.963 | 104 | 302870 | 20.179 ug/l | 99 |
| 71) Bromoform | 12.127 | 173 | 55061 | 19.039 ug/l # | 98 |
| 73) Isopropylbenzene | 12.249 | 105 | 481276 | 20.975 ug/l | 100 |
| 74) N-amyl acetate | 12.066 | 43 | 94137 | 19.346 ug/l | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.499 | 83 | 71870 | 18.344 ug/l | 98 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 103385 | 32.950 ug/l # | 100 |
| 77) Bromobenzene | 12.529 | 156 | 111502 | 20.369 ug/l | 98 |
| 78) n-propylbenzene | 12.590 | 91 | 581635 | 21.291 ug/l | 100 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 332511 | 21.244 ug/l | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.731 | 105 | 390462 | 21.055 ug/l | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.298 | 75 | 25293 | 19.514 ug/l | 98 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 343845 | 21.176 ug/l | 100 |
| 83) tert-Butylbenzene | 12.993 | 119 | 344106 | 20.545 ug/l | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.036 | 105 | 390034 | 21.128 ug/l | 99 |
| 85) sec-Butylbenzene | 13.170 | 105 | 515732 | 20.962 ug/l | 100 |
| 86) p-Isopropyltoluene | 13.285 | 119 | 426905 | 20.904 ug/l | 99 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 220435 | 20.420 ug/l | 99 |
| 88) 1,4-Dichlorobenzene | 13.359 | 146 | 219736 | 20.520 ug/l | 99 |
| 89) n-Butylbenzene | 13.615 | 91 | 390572 | 20.823 ug/l | 98 |
| 90) Hexachloroethane | 13.877 | 117 | 89456 | 21.398 ug/l | 98 |
| 91) 1,2-Dichlorobenzene | 13.651 | 146 | 191827 | 20.262 ug/l | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.267 | 75 | 11881 | 19.477 ug/l | 93 |
| 93) 1,2,4-Trichlorobenzene | 14.913 | 180 | 105900 | 18.915 ug/l | 98 |
| 94) Hexachlorobutadiene | 15.017 | 225 | 66091 | 20.089 ug/l | 98 |
| 95) Naphthalene | 15.139 | 128 | 162104 | 16.980 ug/l | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.322 | 180 | 89070 | 18.463 ug/l | 98 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023061.D
Acq On : 13 Aug 2025 11:09
Operator : SY/MD
Sample : VY0813SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Quant Time: Aug 14 01:20:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

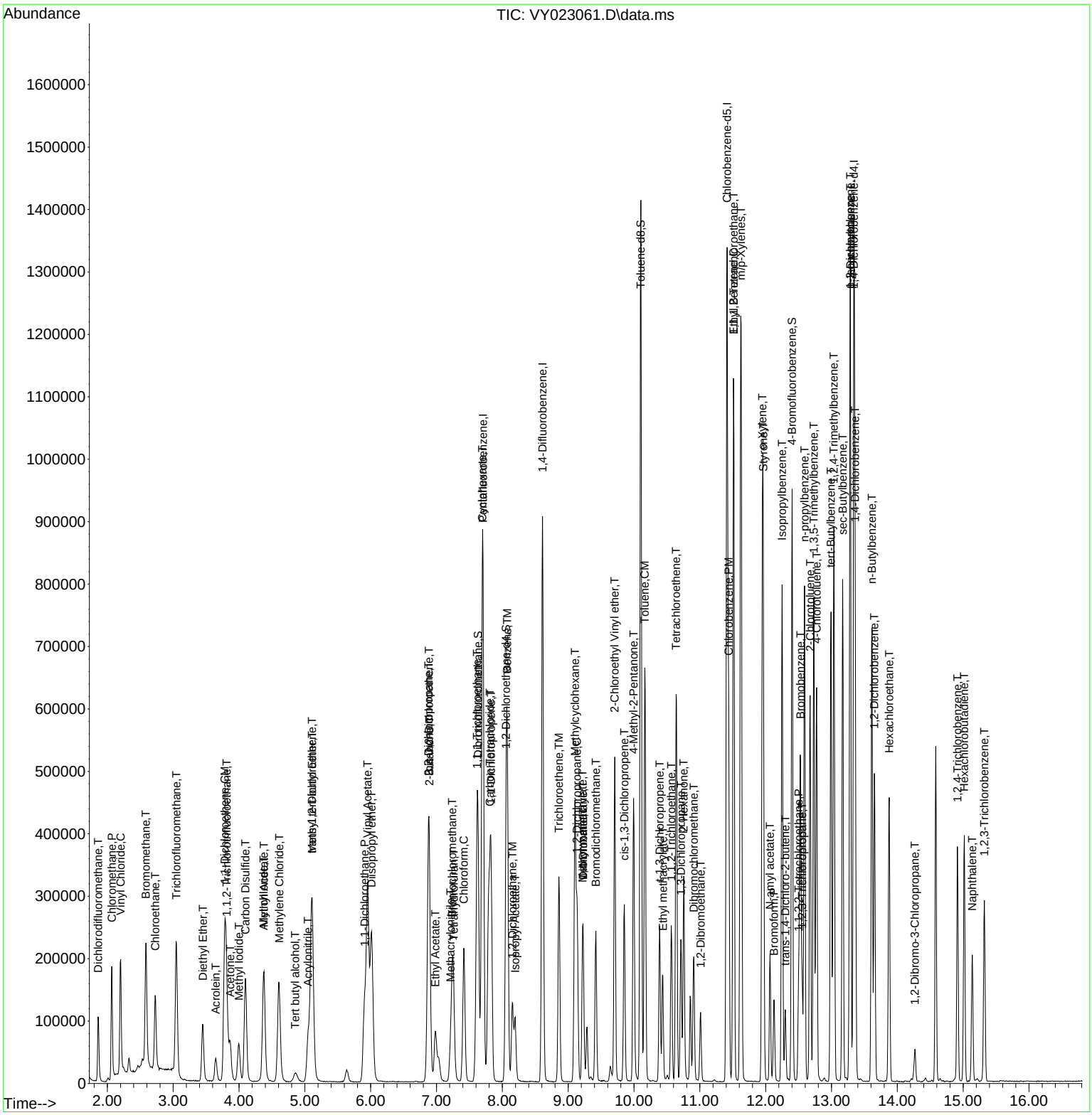
(#) = qualifier out of range (m) = manual integration (+) = signals summed

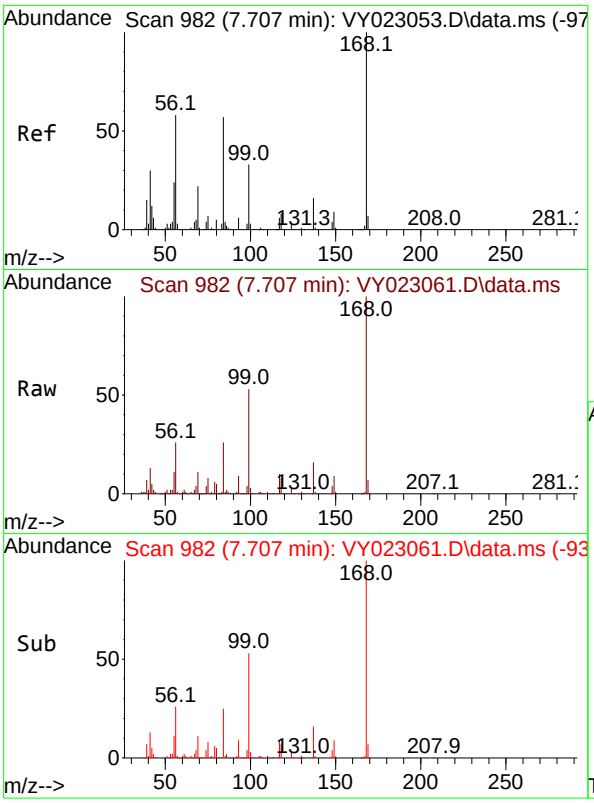
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023061.D
Acq On : 13 Aug 2025 11:09
Operator : SY/MD
Sample : VY0813SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Quant Time: Aug 14 01:20:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



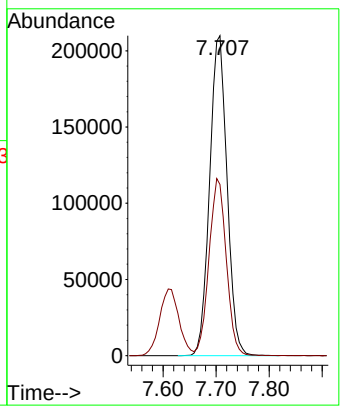


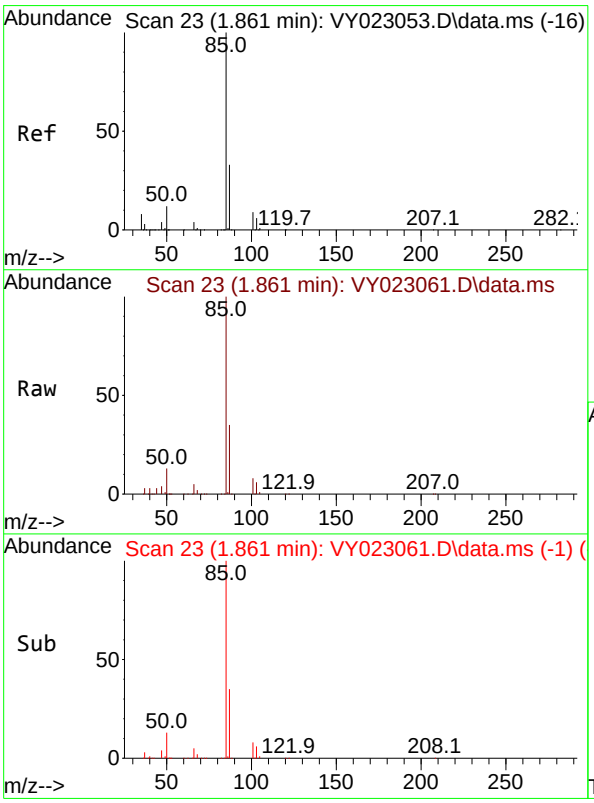

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion:168 Resp: 478194

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 53.4 | 42.8 | 64.2 |

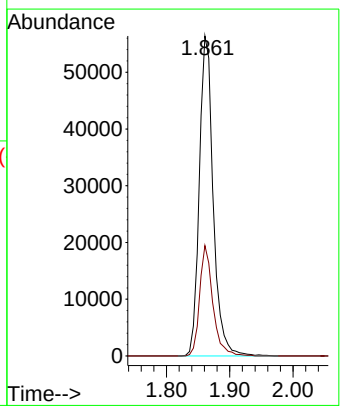


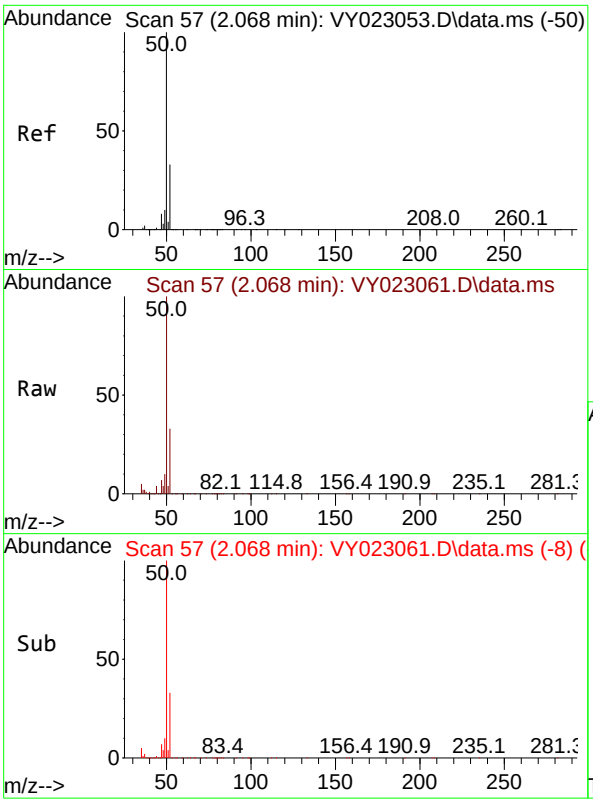




#2
Dichlorodifluoromethane
Concen: 22.125 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 85 Resp: 86360

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 34.5 | 16.6 | 49.8 |



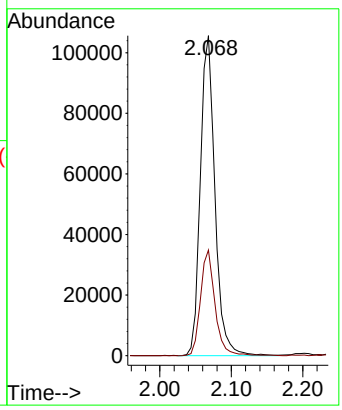


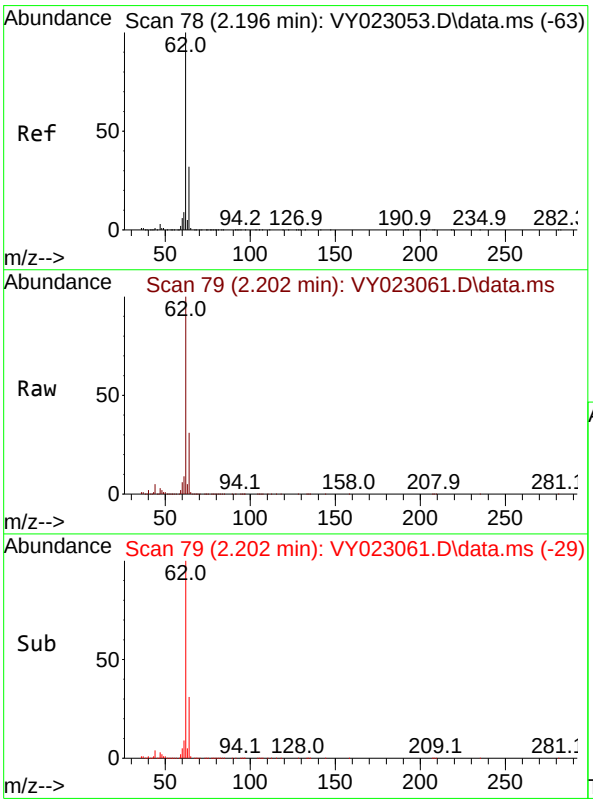

#3
Chloromethane
Concen: 23.698 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion: 50 Resp: 149822

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.0 | 26.7 | 40.1 |

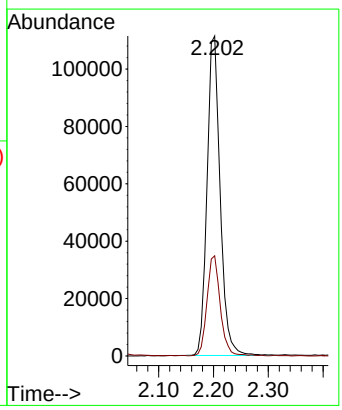


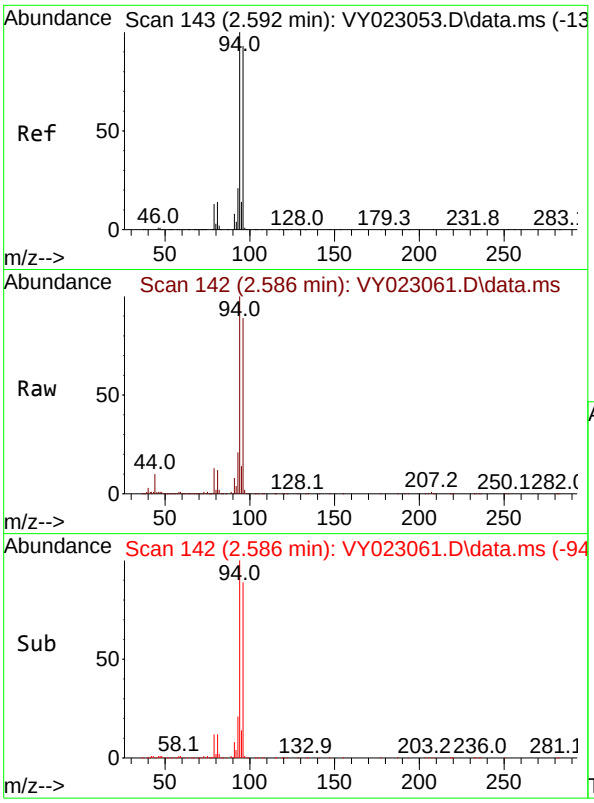




#4
Vinyl Chloride
Concen: 23.580 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 62 Resp: 184278

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.2 | 25.4 | 38.0 |



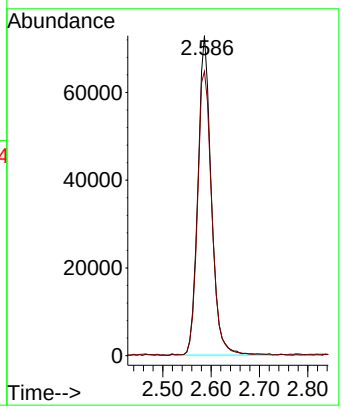


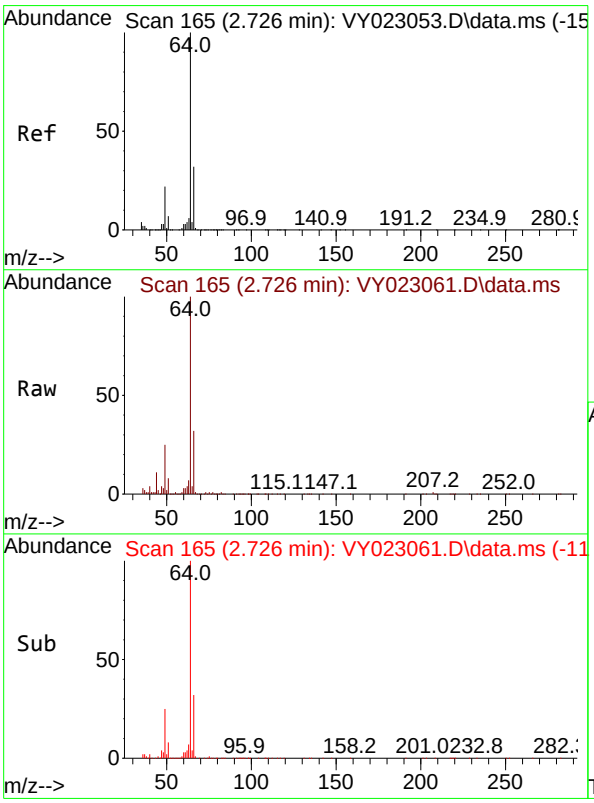

#5
Bromomethane
Concen: 23.936 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion: 94 Resp: 139698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 88.8 | 74.6 | 112.0 |

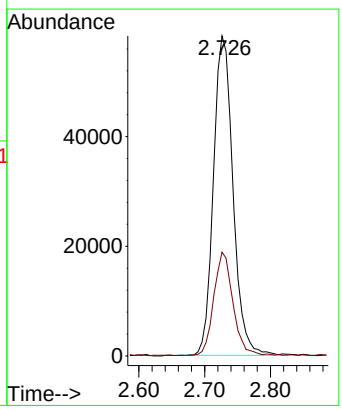


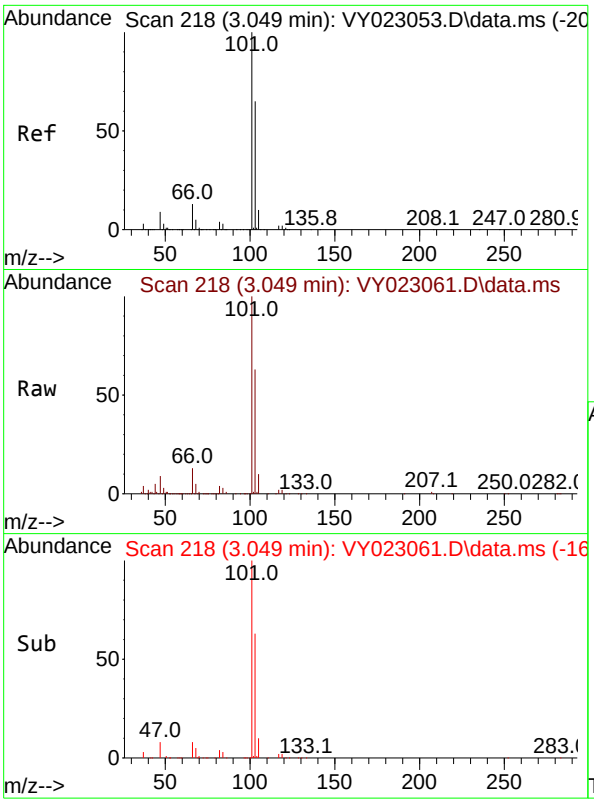




#6
Chloroethane
Concen: 23.227 ug/l
RT: 2.726 min Scan# 165
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 64 Resp: 120677

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.4 | 25.8 | 38.6 |



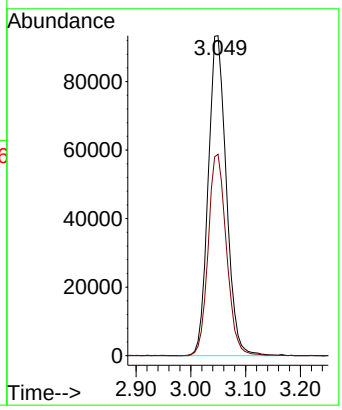


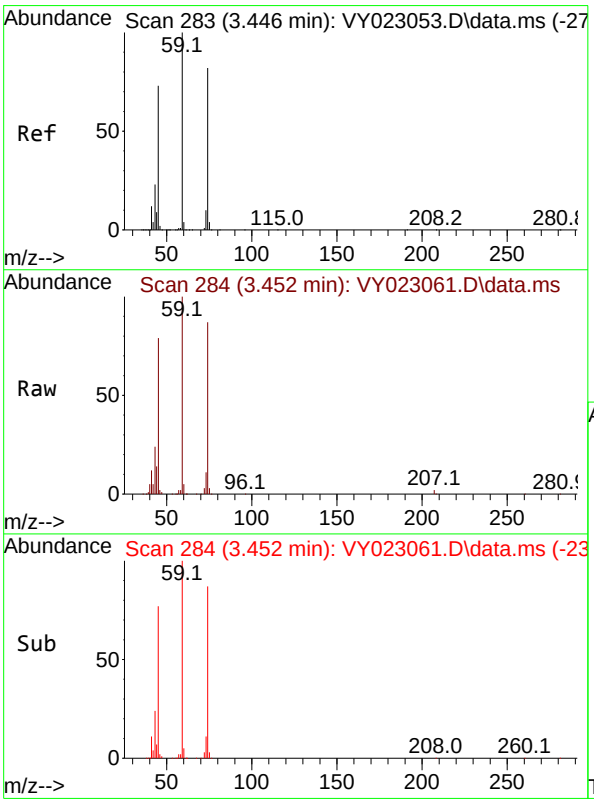

#7
Trichlorofluoromethane
Concen: 22.485 ug/l
RT: 3.049 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion:101 Resp: 213662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.0 | 51.9 | 77.9 |

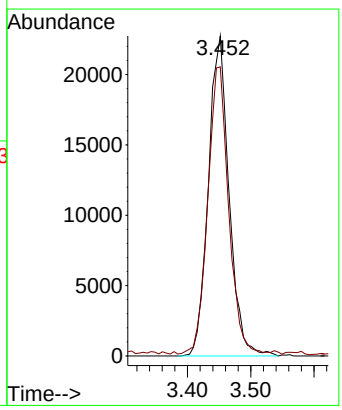


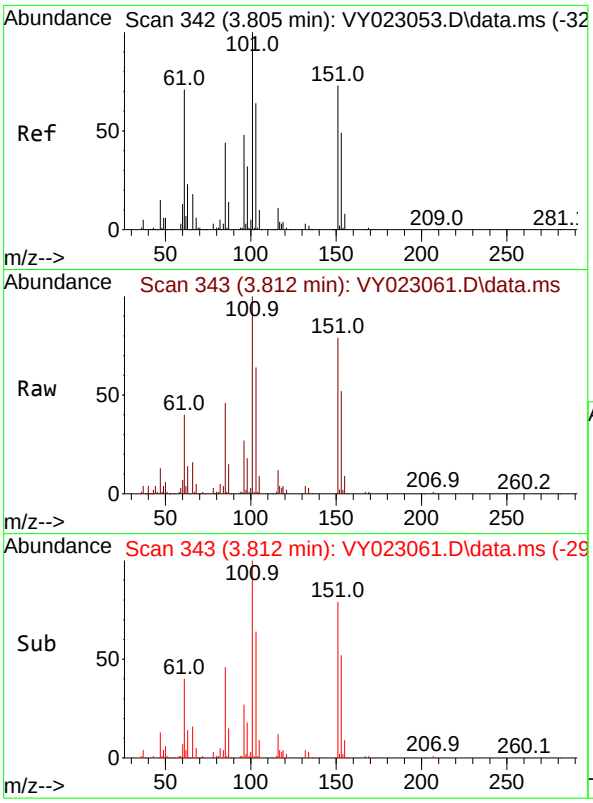




#8
Diethyl Ether
Concen: 20.553 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 74 Resp: 51671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 90.4 | 44.4 | 133.2 |



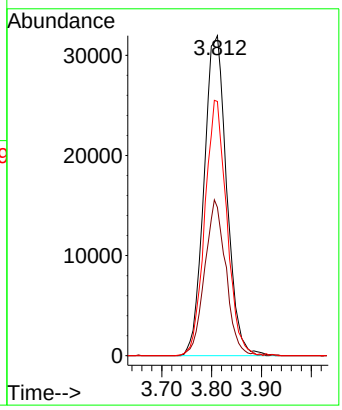


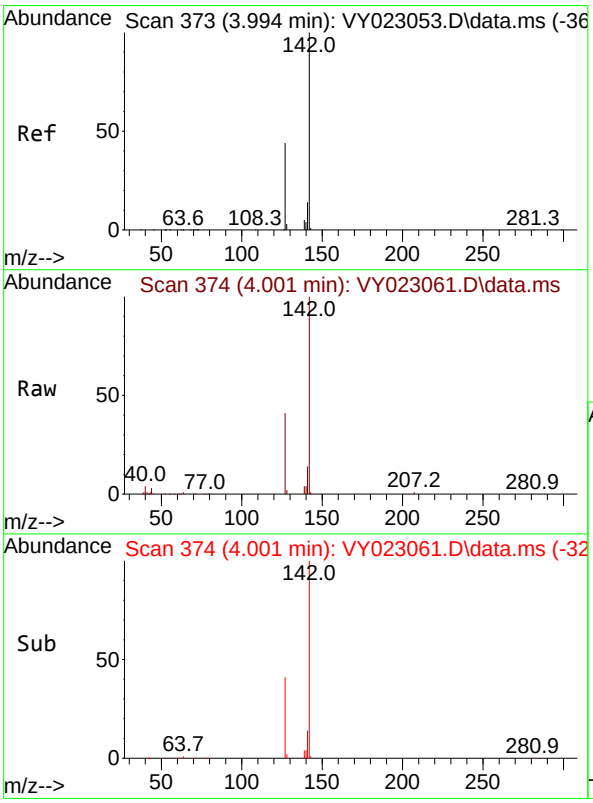

#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.545 ug/l
RT: 3.812 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion:101 Resp: 101004

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 45.7 | 36.3 | 54.5 |
| 151 | 77.2 | 61.5 | 92.3 |

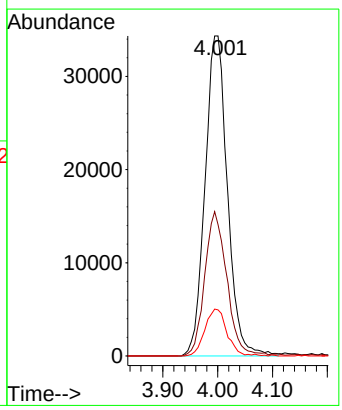


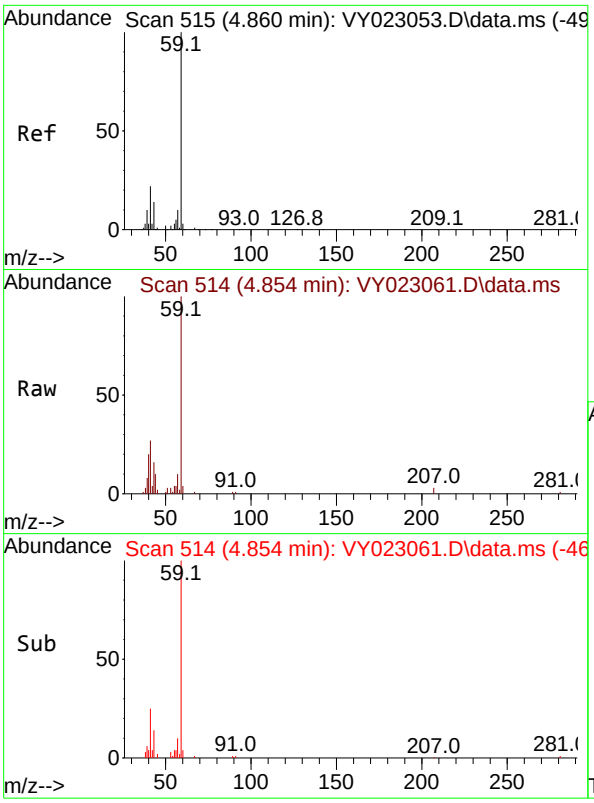




#10
Methyl Iodide
Concen: 19.249 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:142 Resp: 97379

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 44.6 | 34.9 | 52.3 |
| 141 | 14.5 | 11.3 | 16.9 |



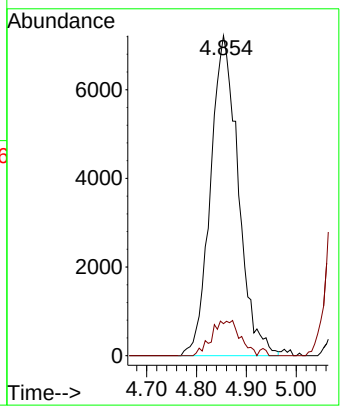


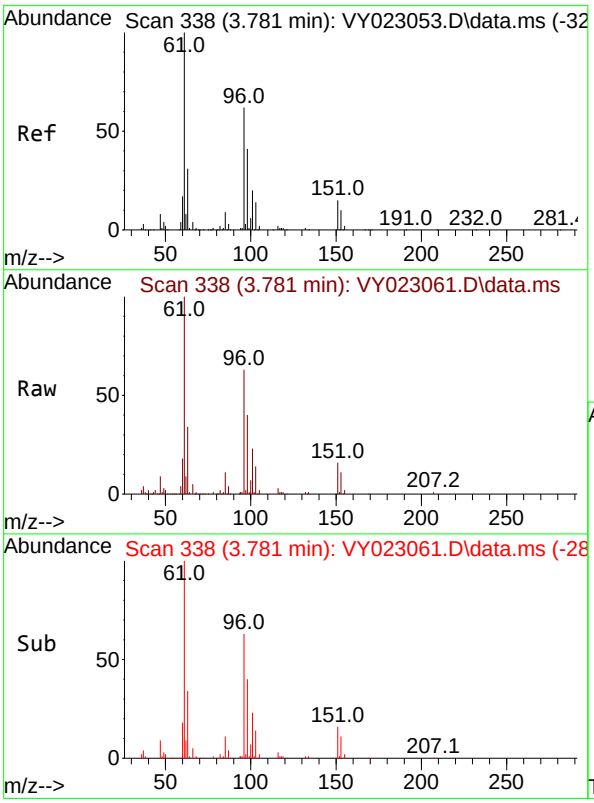

#11
Tert butyl alcohol
Concen: 89.450 ug/l
RT: 4.854 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion: 59 Resp: 27933

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 11.2 | 8.6 | 13.0 |

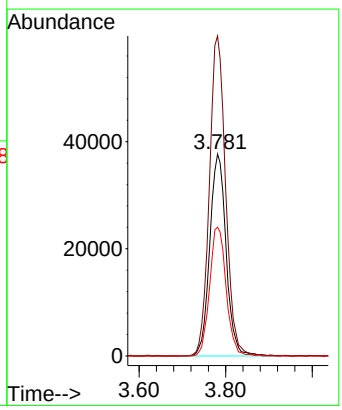


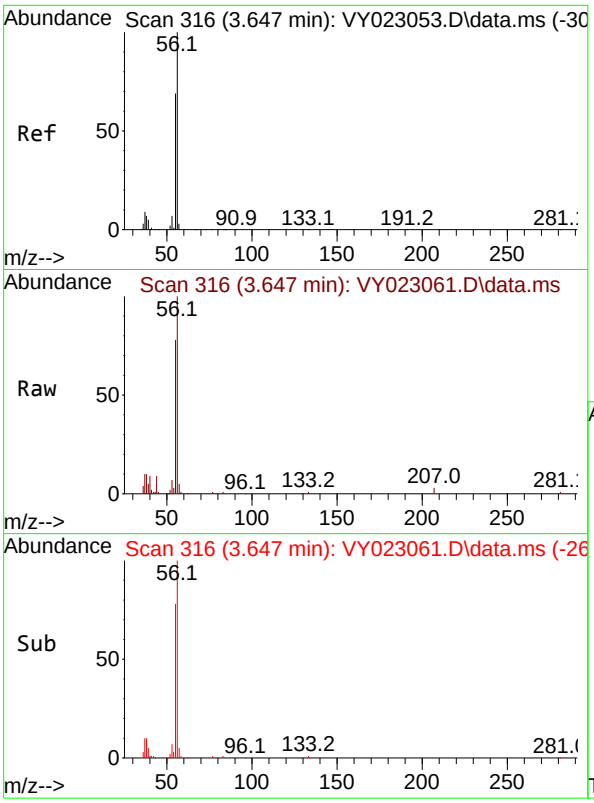




#12
1,1-Dichloroethene
Concen: 21.467 ug/l
RT: 3.781 min Scan# 338
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 96 Resp: 98921

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 158.4 | 129.4 | 194.2 |
| 98 | 63.8 | 52.8 | 79.2 |



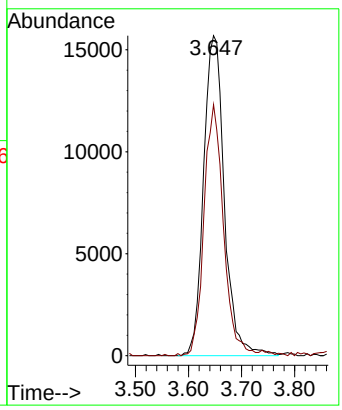


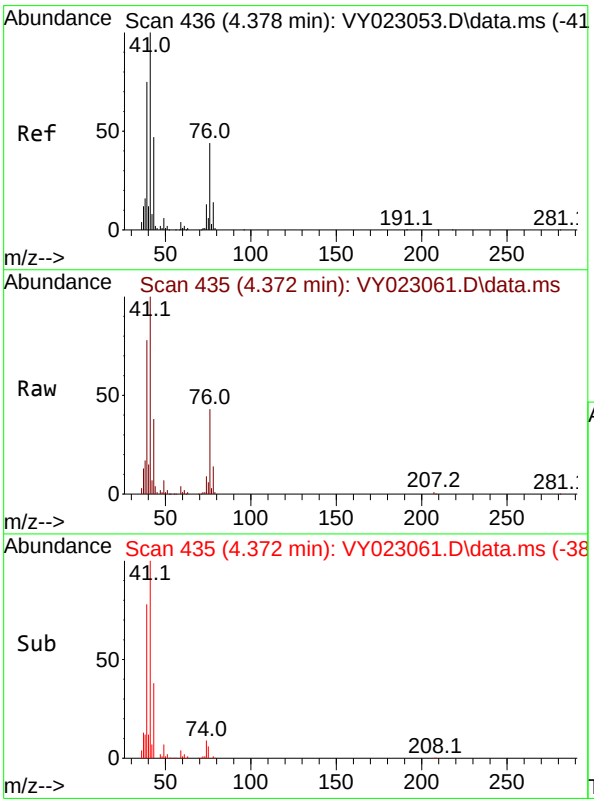

#13
Acrolein
Concen: 93.352 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion: 56 Resp: 42693

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 73.3 | 55.2 | 82.8 |

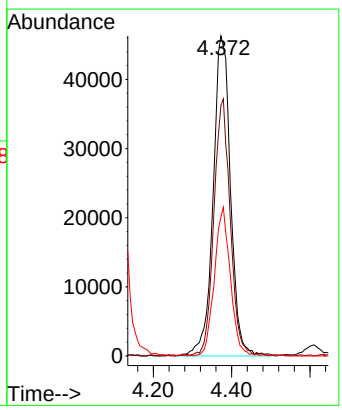


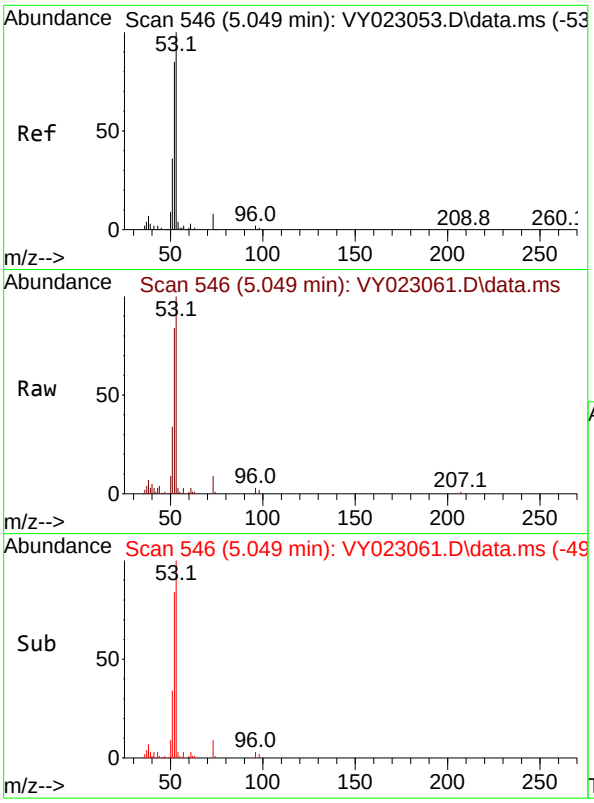




#14
Allyl chloride
Concen: 21.158 ug/l
RT: 4.372 min Scan# 435
Delta R.T. -0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 41 Resp: 143464

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 75.4 | 59.8 | 89.6 |
| 76 | 42.6 | 33.7 | 50.5 |



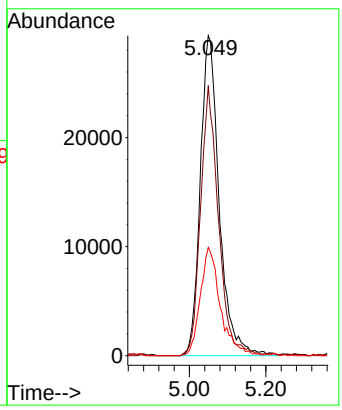


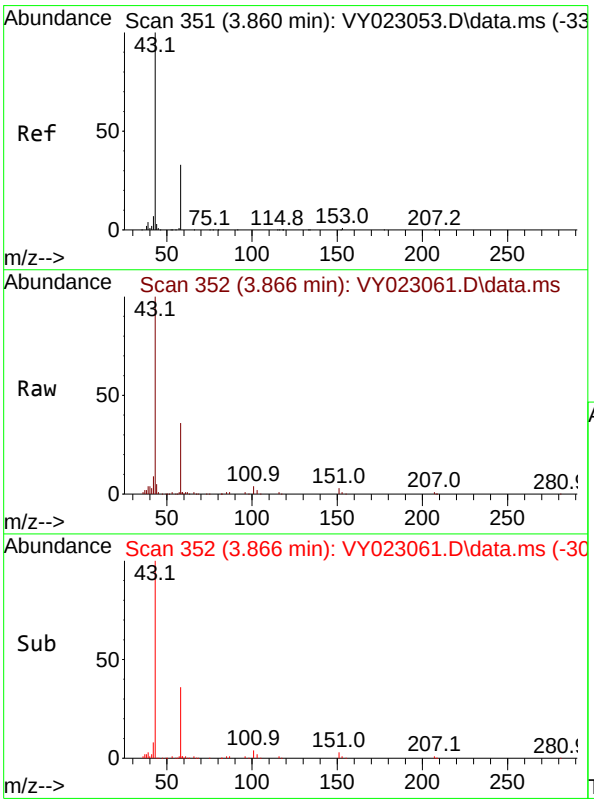

#15
Acrylonitrile
Concen: 98.653 ug/l
RT: 5.049 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion: 53 Resp: 100833

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 79.6 | 65.3 | 97.9 |
| 51 | 35.9 | 29.5 | 44.3 |

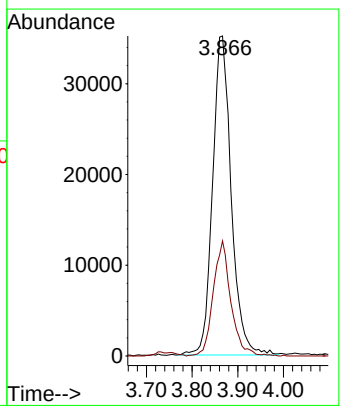


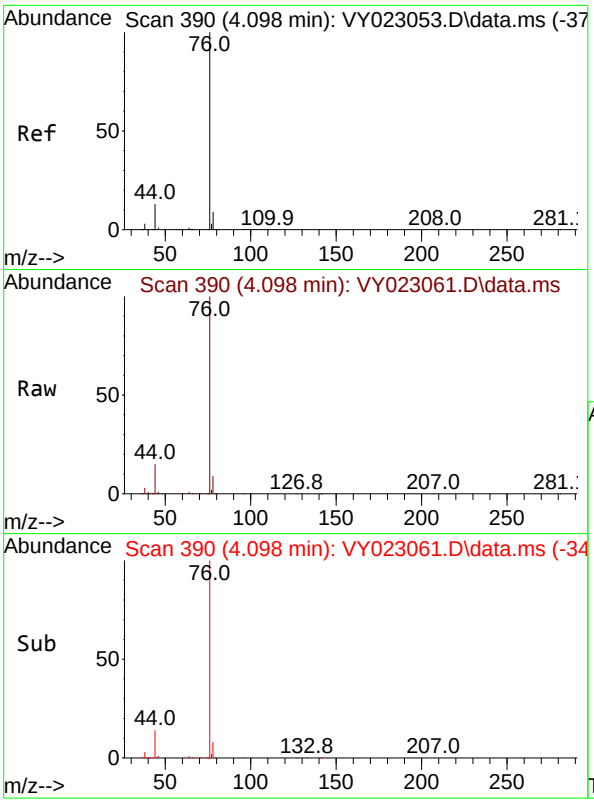




#16
Acetone
Concen: 101.199 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 43 Resp: 99920

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 36.1 | 27.1 | 40.7 |



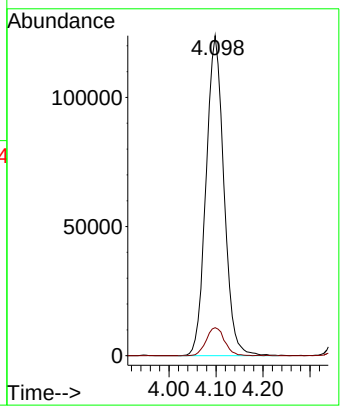


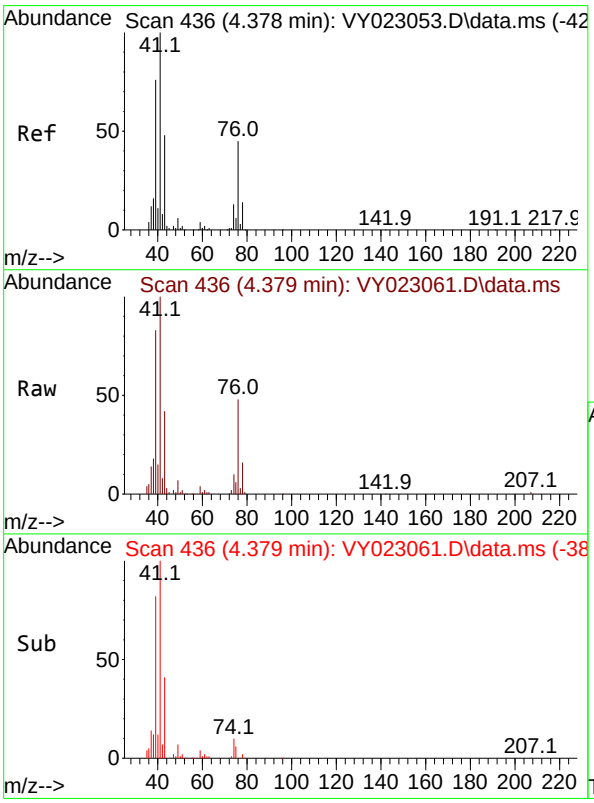

#17
Carbon Disulfide
Concen: 21.737 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion: 76 Resp: 326606

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.7 | 7.4 | 11.2 |

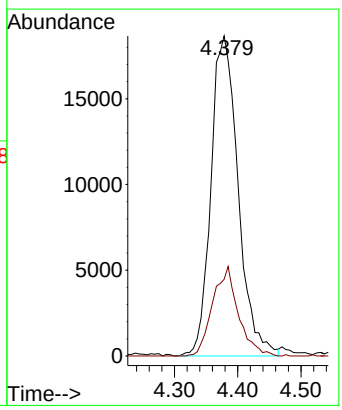


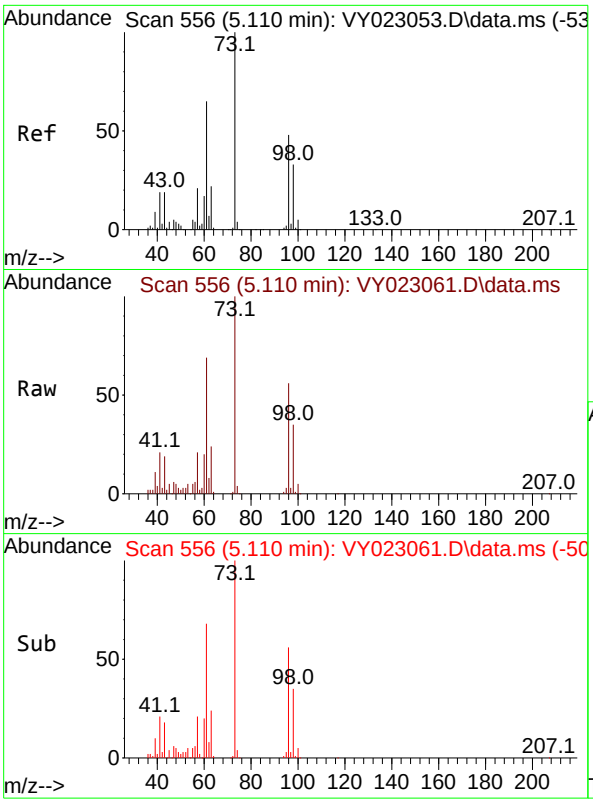




#18
Methyl Acetate
Concen: 18.953 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 43 Resp: 55687

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 26.3 | 21.2 | 31.8 |



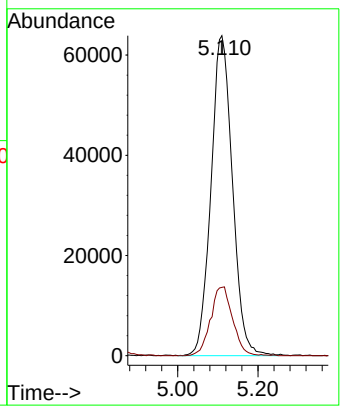


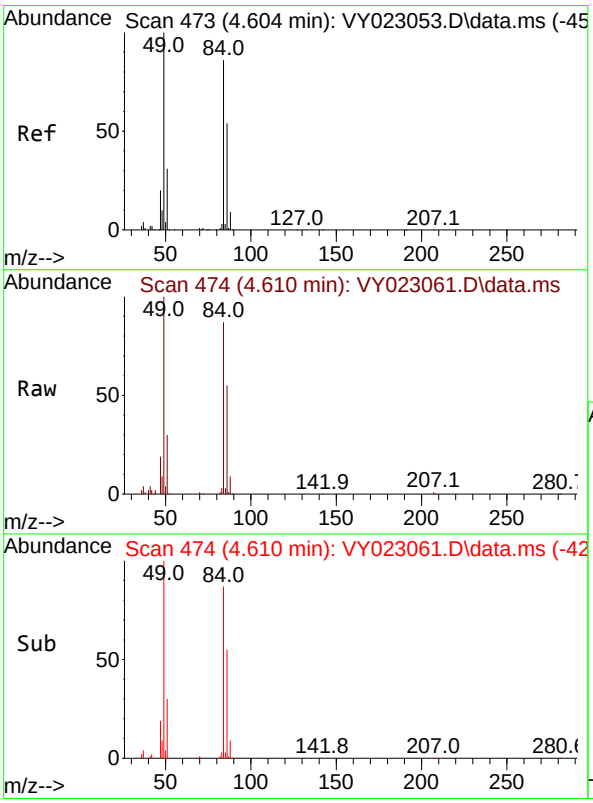

#19
Methyl tert-butyl Ether
Concen: 19.892 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion: 73 Resp: 237530

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.4 | 17.1 | 25.7 |

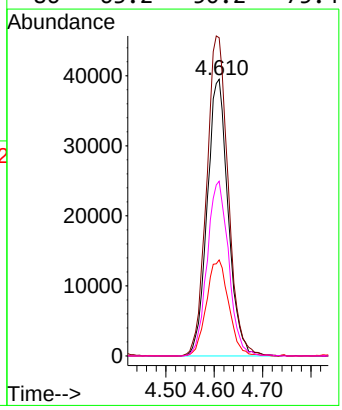


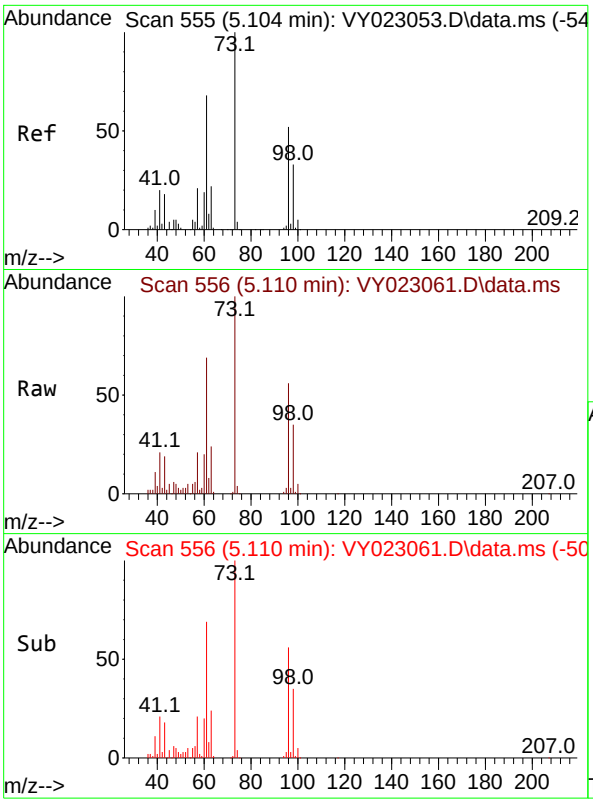




#20
Methylene Chloride
Concen: 21.623 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 84 Resp: 118853

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 115.1 | 93.0 | 139.6 |
| 51 | 34.7 | 29.0 | 43.4 |
| 86 | 63.2 | 50.2 | 75.4 |



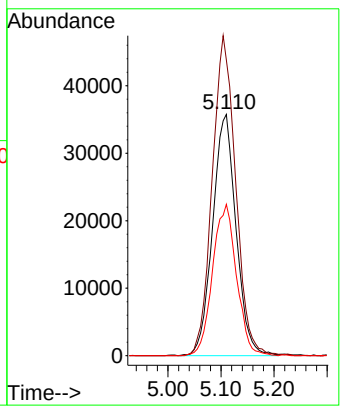


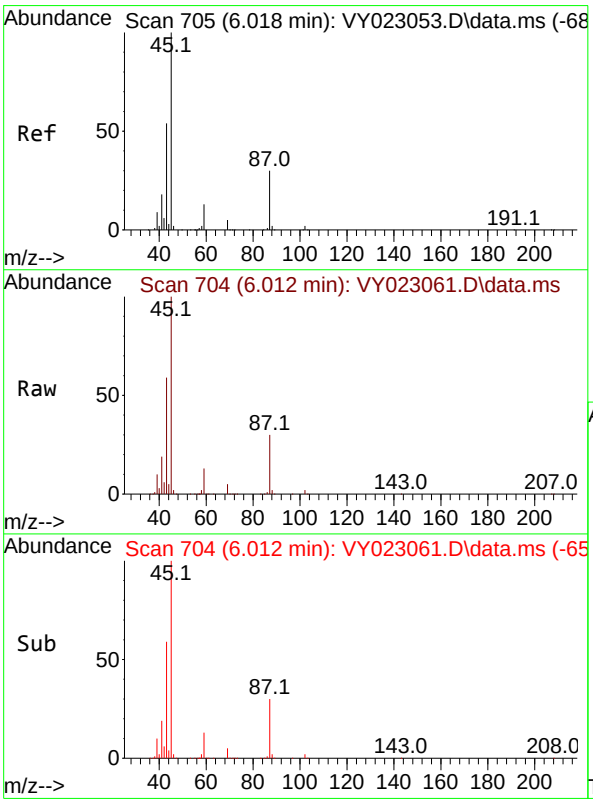

#21
trans-1,2-Dichloroethene
Concen: 21.230 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion: 96 Resp: 109941

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 122.5 | 104.8 | 157.2 |
| 98 | 62.7 | 50.1 | 75.1 |

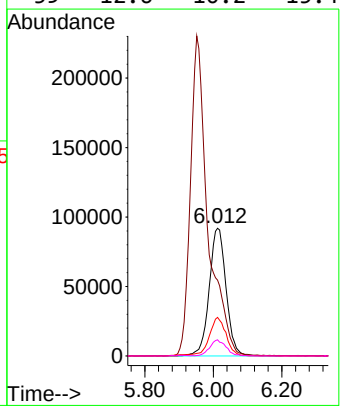


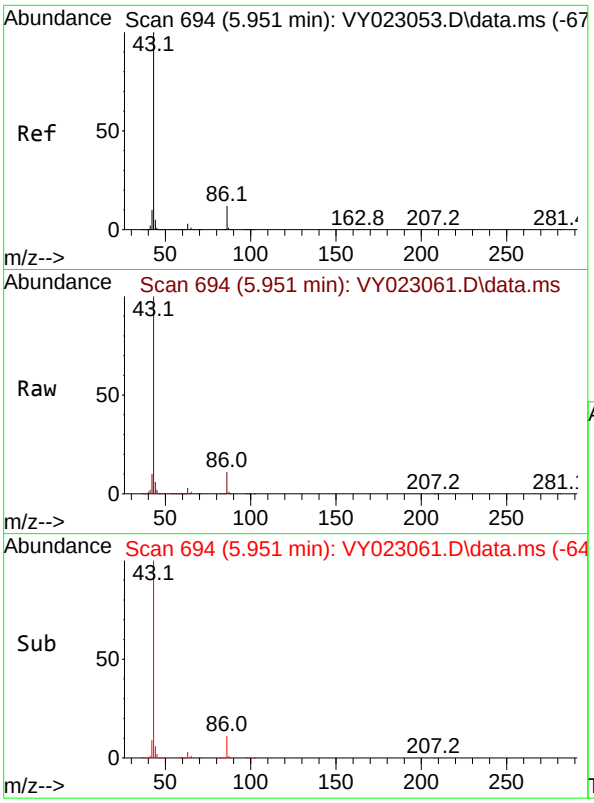




#22
Diisopropyl ether
Concen: 21.310 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 45 Resp: 313978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 59.0 | 43.4 | 65.0 |
| 87 | 30.2 | 24.4 | 36.6 |
| 59 | 12.6 | 10.2 | 15.4 |



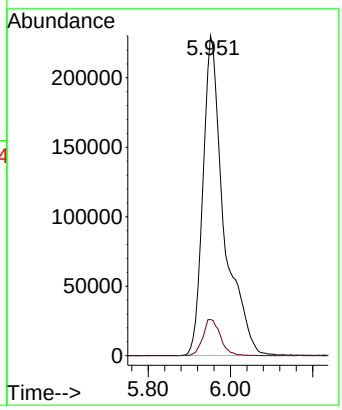


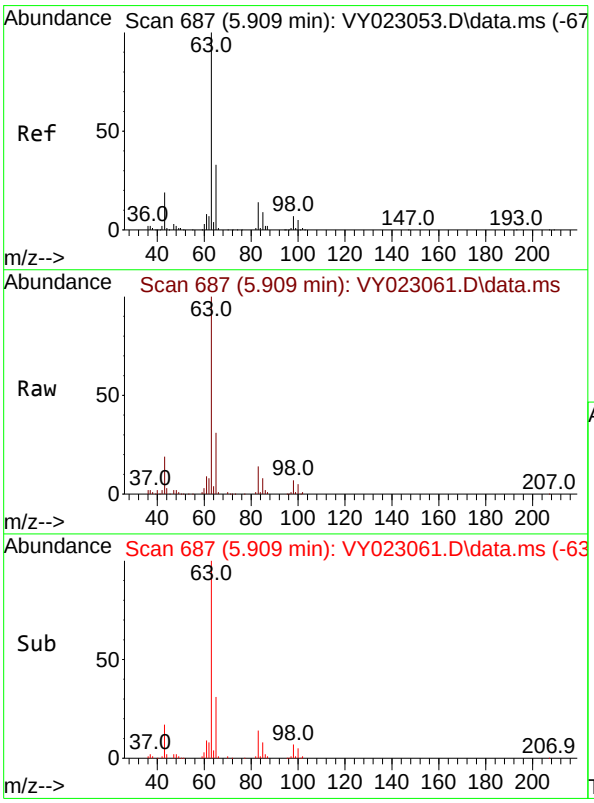

#23
Vinyl Acetate
Concen: 100.034 ug/l
RT: 5.951 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion: 43 Resp: 814993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.3 | 9.6 | 14.4 |

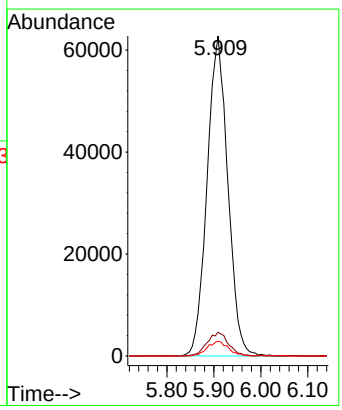


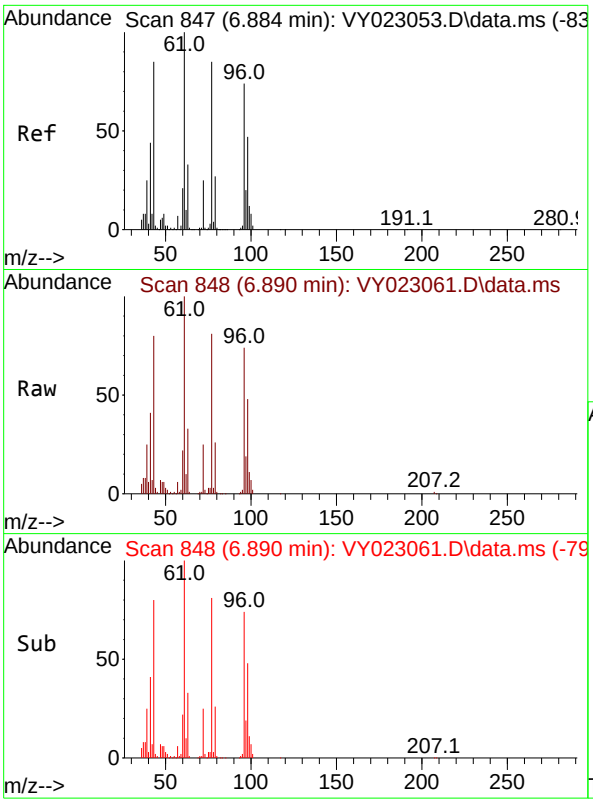




#24
1,1-Dichloroethane
Concen: 21.326 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 63 Resp: 192114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.4 | 3.5 | 10.6 |
| 100 | 4.6 | 2.4 | 7.1 |



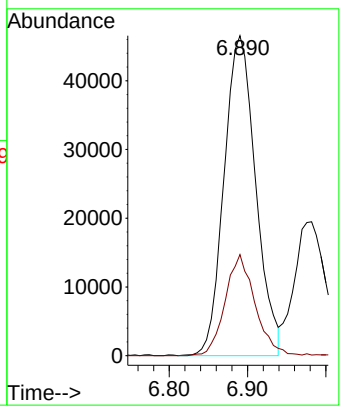


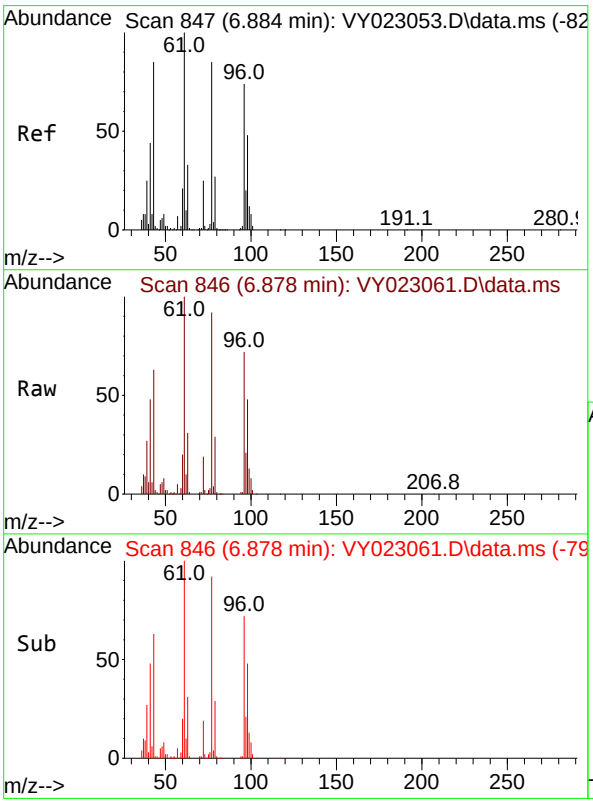

#25
2-Butanone
Concen: 97.389 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion: 43 Resp: 130779

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 31.6 | 23.5 | 35.3 |

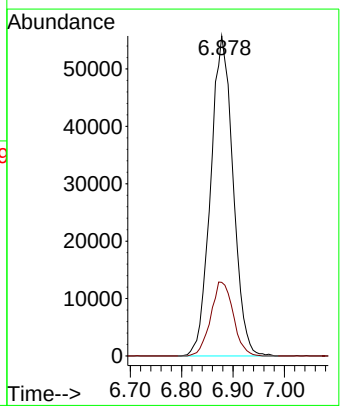


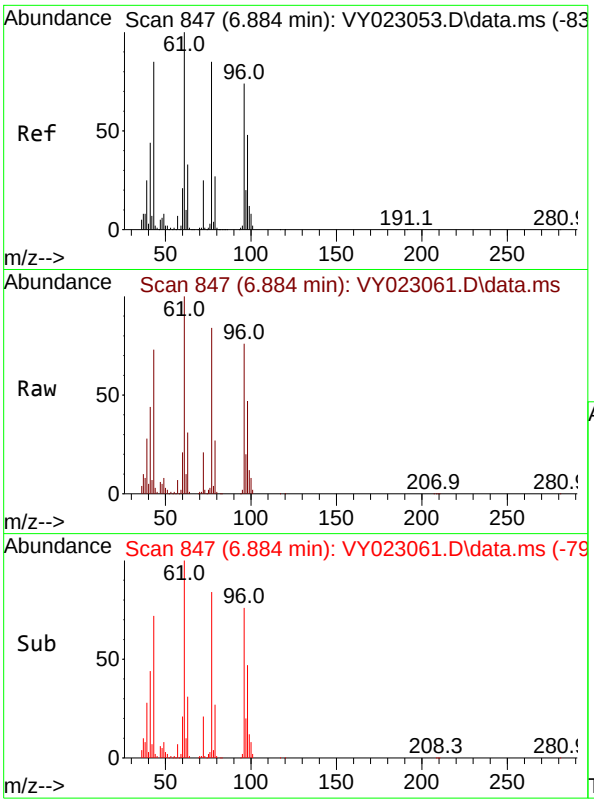




#26
2,2-Dichloropropane
Concen: 21.776 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 77 Resp: 169264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.2 | 11.6 | 34.8 |



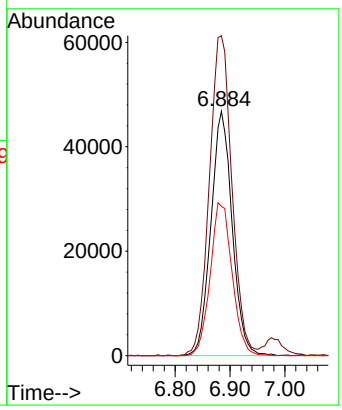


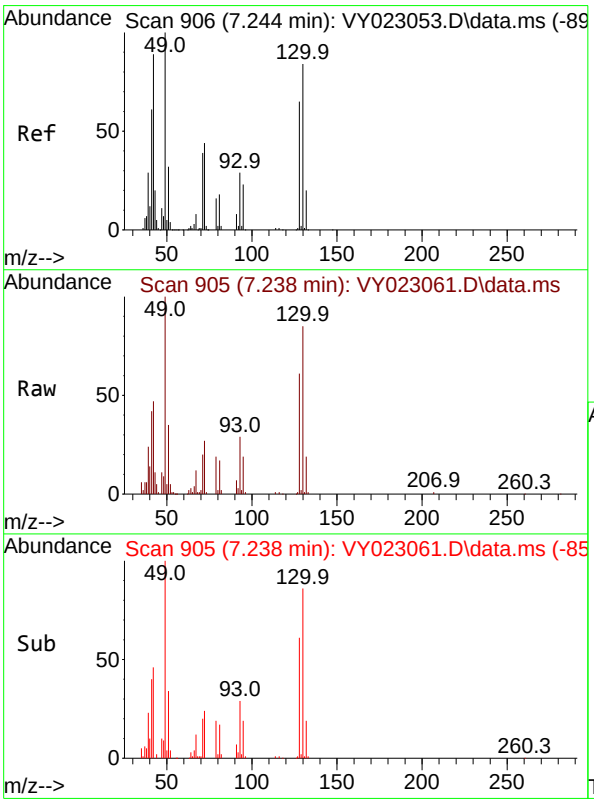

#27
cis-1,2-Dichloroethene
Concen: 21.095 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion: 96 Resp: 126291

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 138.9 | 0.0 | 278.6 |
| 98 | 64.3 | 0.0 | 130.4 |

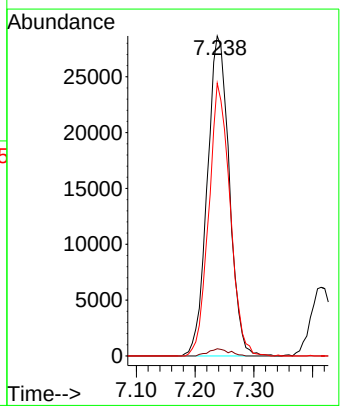


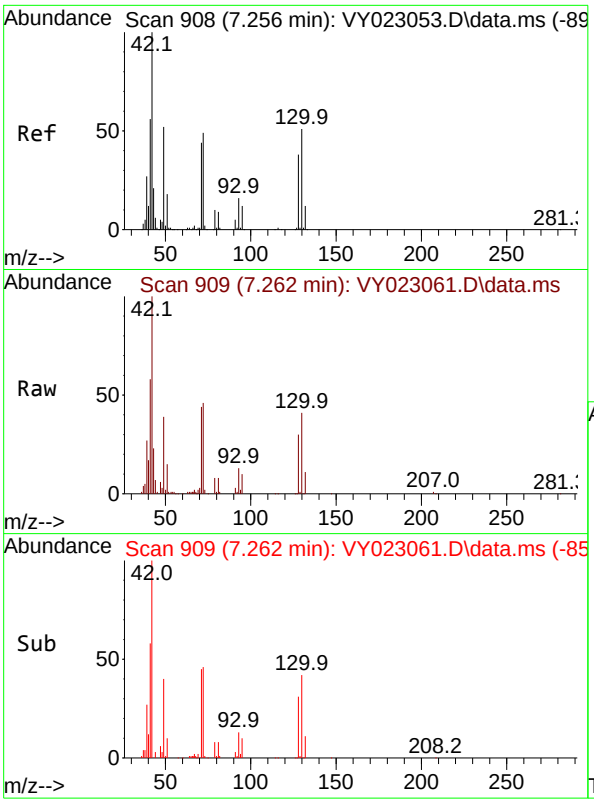




#28
Bromochloromethane
Concen: 20.802 ug/l
RT: 7.238 min Scan# 905
Delta R.T. -0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 49 Resp: 74346

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.2 | 0.0 | 4.2 |
| 130 | 82.5 | 66.4 | 99.6 |



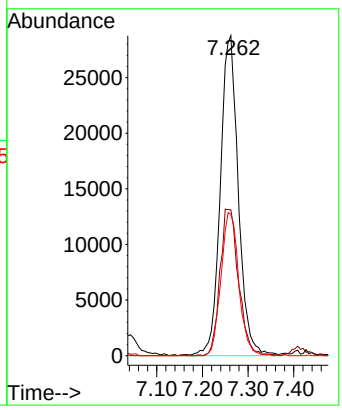


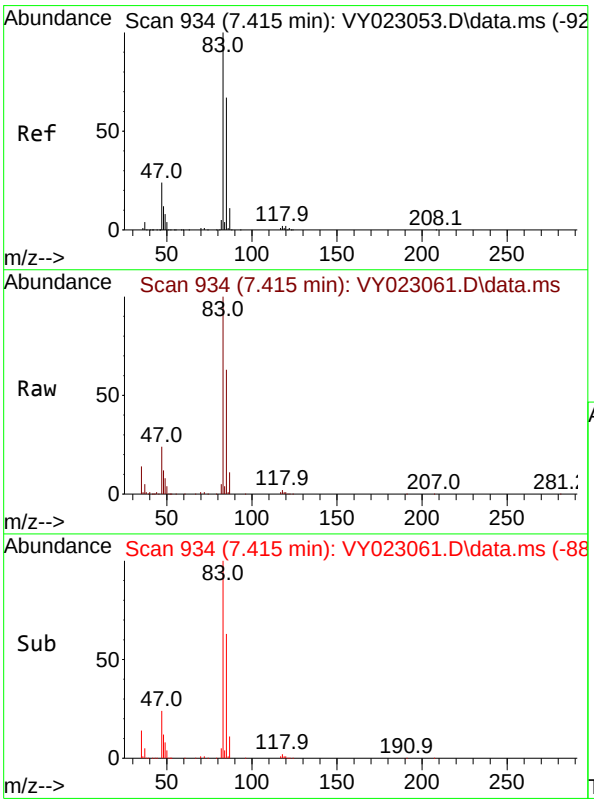

#29
Tetrahydrofuran
Concen: 94.913 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion: 42 Resp: 79003

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 47.0 | 39.4 | 59.2 |
| 71 | 44.1 | 36.5 | 54.7 |

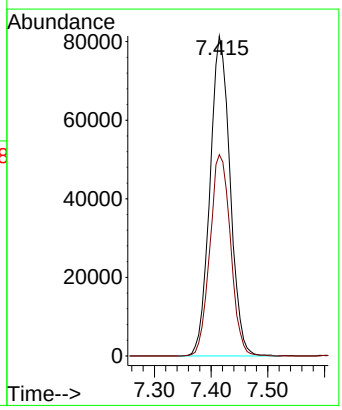


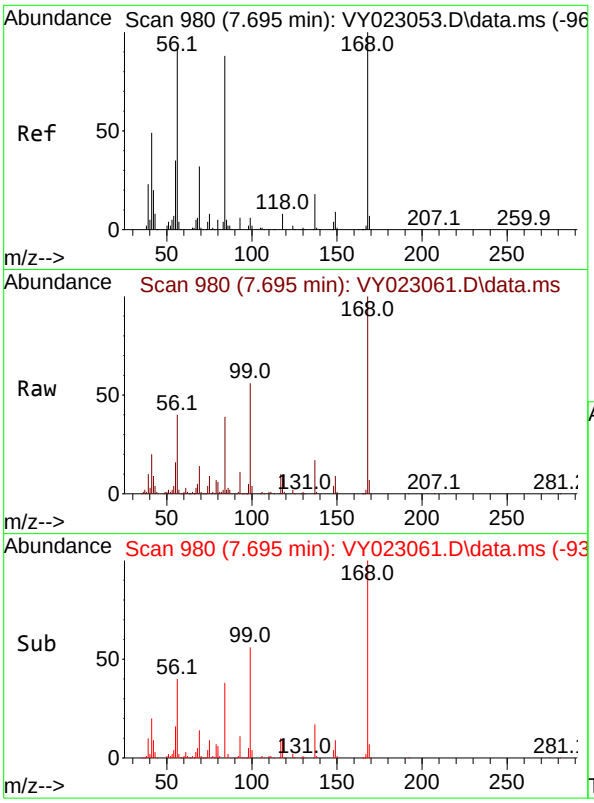




#30
Chloroform
Concen: 21.559 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 83 Resp: 200297

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.9 | 53.8 | 80.8 |



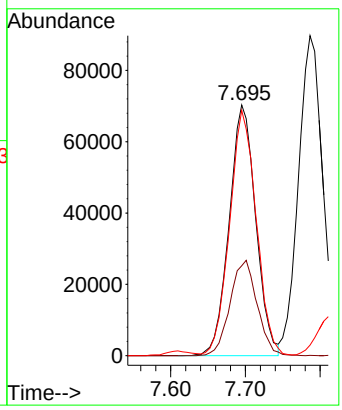


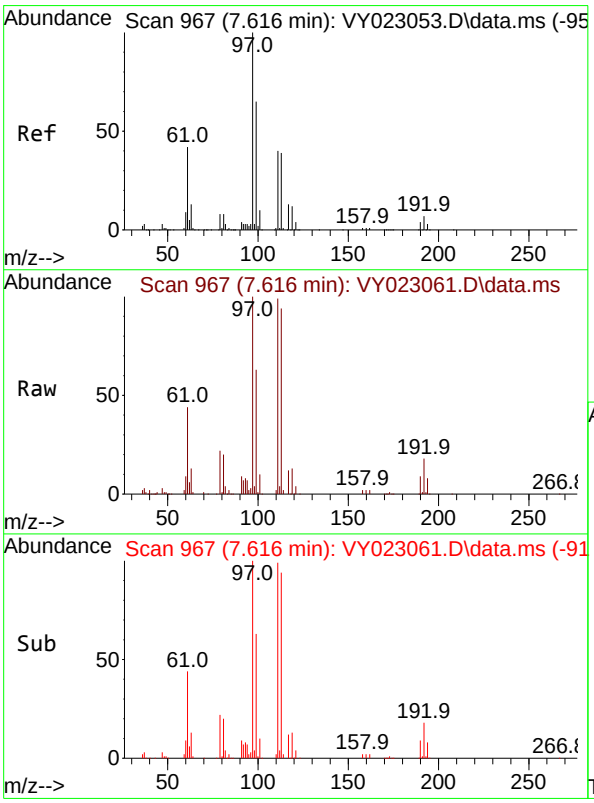

#31
Cyclohexane
Concen: 20.493 ug/l
RT: 7.695 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion: 56 Resp: 173959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 35.9 | 28.2 | 42.2 |
| 84 | 95.9 | 76.6 | 114.8 |

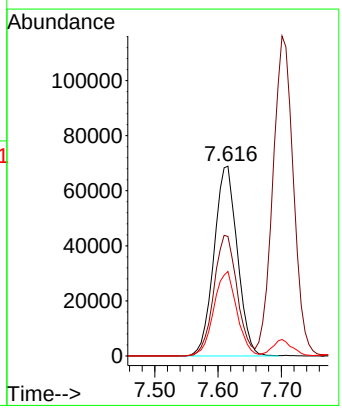


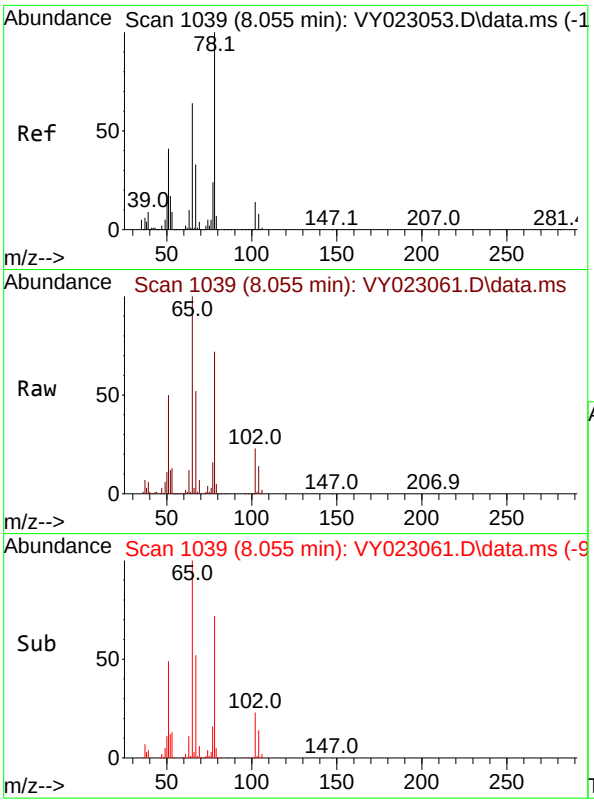




#32
1,1,1-Trichloroethane
Concen: 21.416 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 97 Resp: 176542

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.5 | 51.6 | 77.4 |
| 61 | 44.0 | 34.2 | 51.2 |



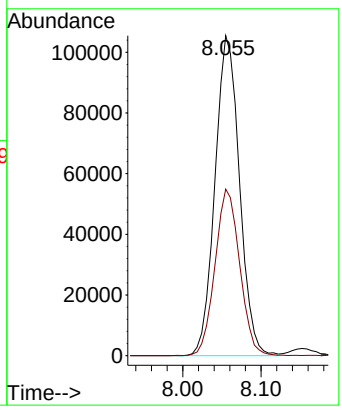


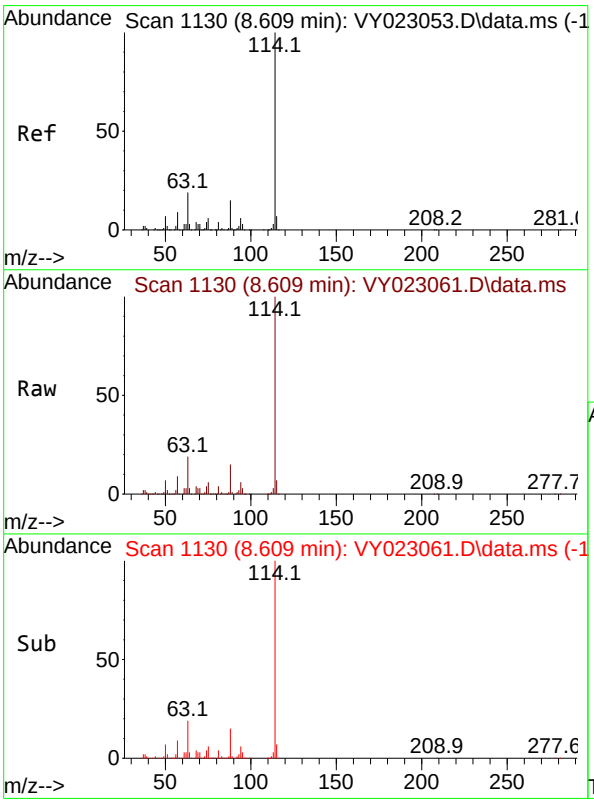

#33
1,2-Dichloroethane-d4
Concen: 50.326 ug/l
RT: 8.055 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion: 65 Resp: 229361

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.5 | 0.0 | 106.8 |

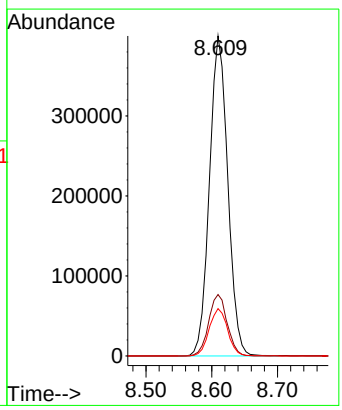


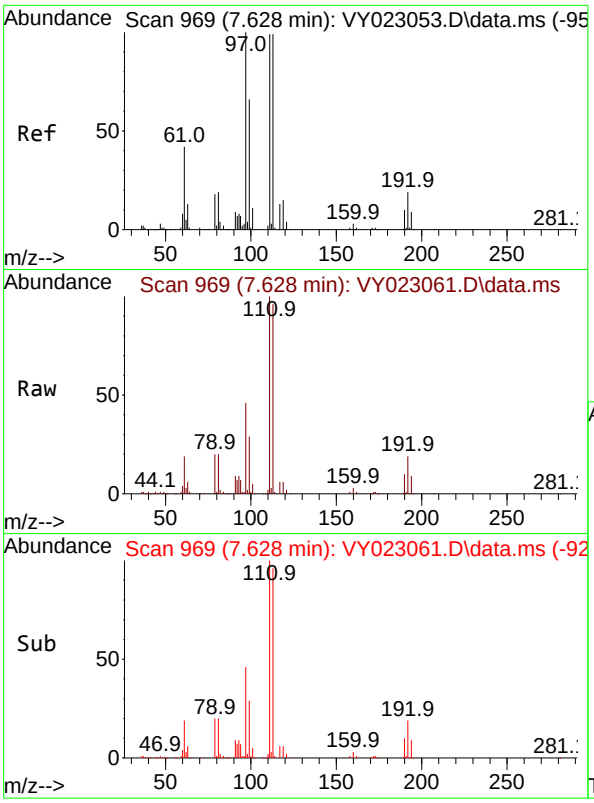




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:114 Resp: 775826

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.2 | 0.0 | 38.4 |
| 88 | 14.8 | 0.0 | 30.0 |



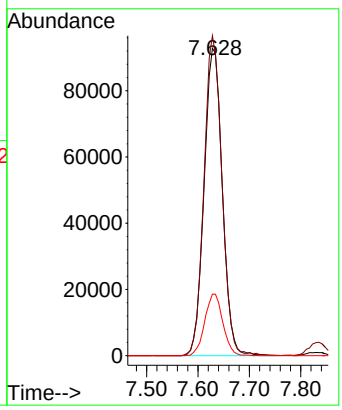


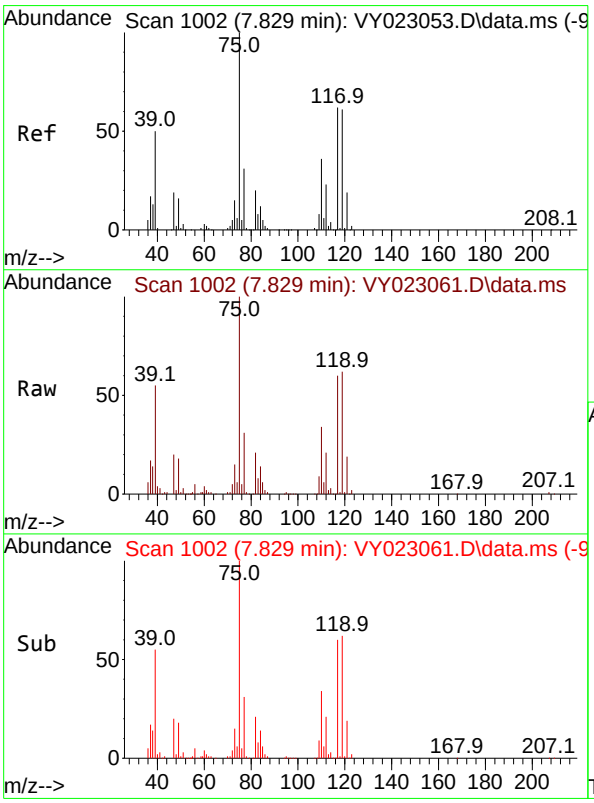

#35
Dibromofluoromethane
Concen: 49.398 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion:113 Resp: 229320

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.2 | 81.1 | 121.7 |
| 192 | 19.9 | 16.2 | 24.4 |

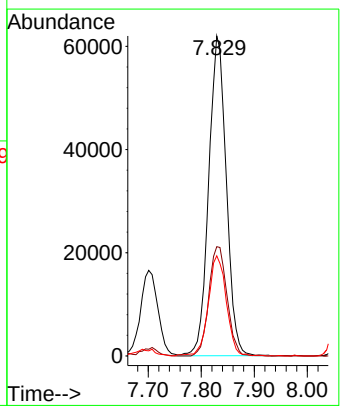


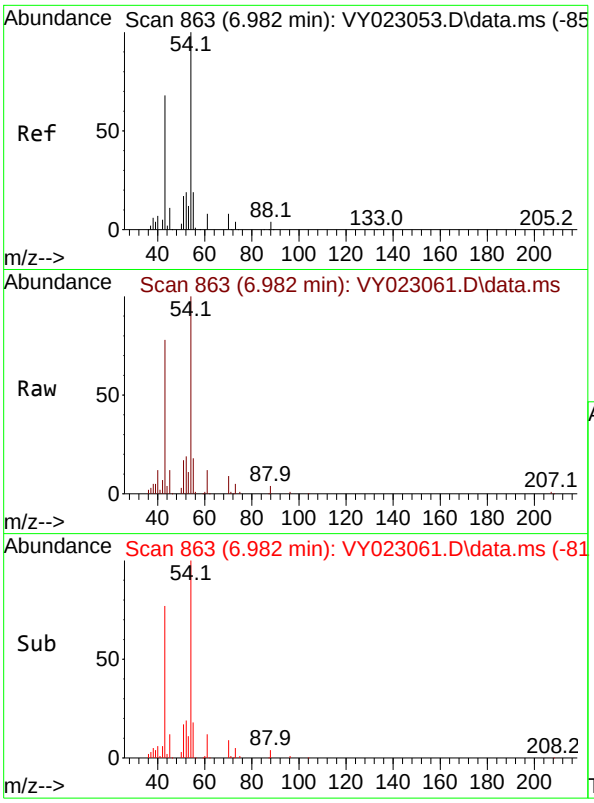




#36
1,1-Dichloropropene
Concen: 20.716 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 75 Resp: 142922

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.3 | 18.1 | 54.4 |
| 77 | 32.0 | 24.6 | 37.0 |



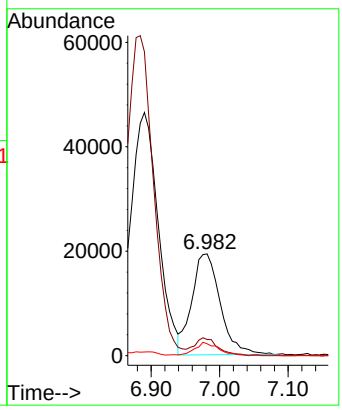


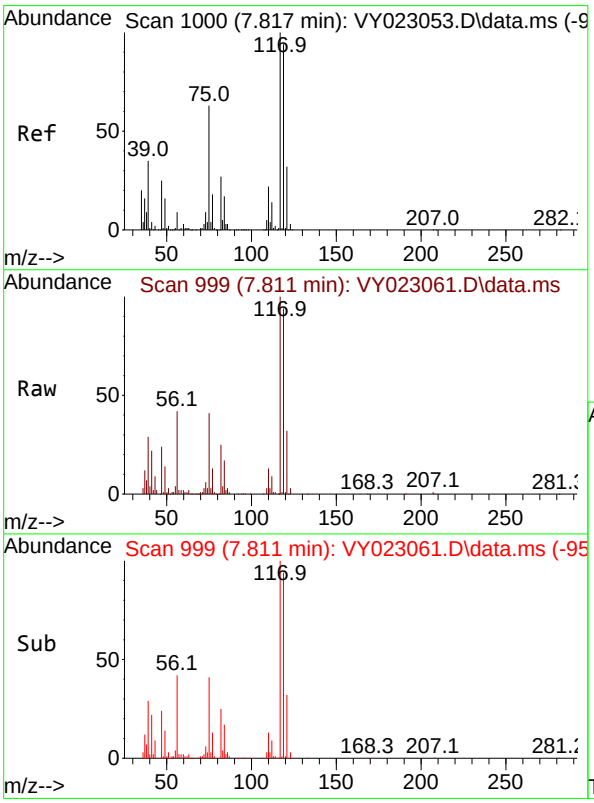

#37
Ethyl Acetate
Concen: 19.200 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion: 43 Resp: 55643

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.6 | 11.9 | 17.9 |
| 70 | 11.3 | 8.8 | 13.2 |

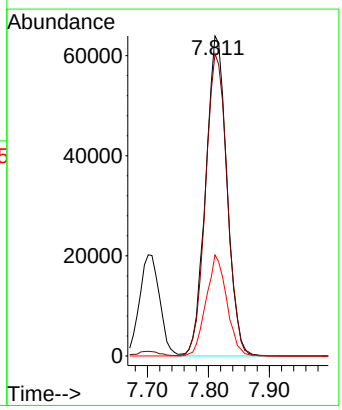


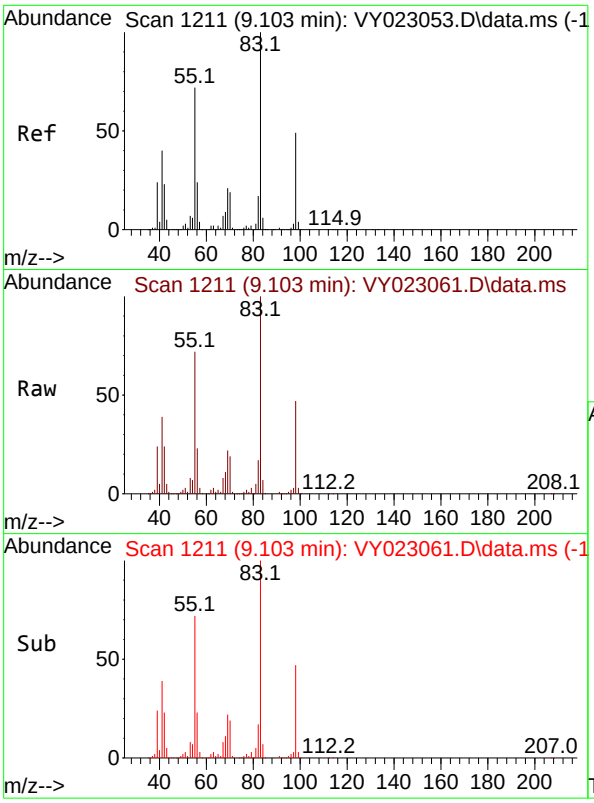




#38
Carbon Tetrachloride
Concen: 20.674 ug/l
RT: 7.811 min Scan# 999
Delta R.T. -0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:117 Resp: 154916

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.5 | 75.6 | 113.4 |
| 121 | 31.6 | 25.8 | 38.8 |



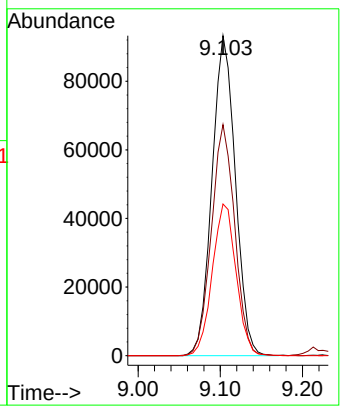


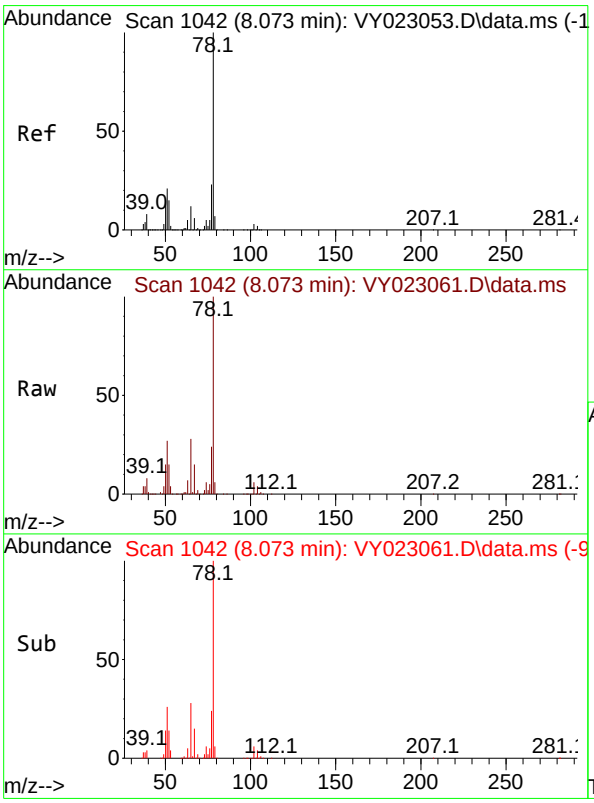

#39
Methylcyclohexane
Concen: 20.258 ug/l
RT: 9.103 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion: 83 Resp: 184052

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 72.2 | 57.6 | 86.4 |
| 98 | 47.4 | 39.2 | 58.8 |

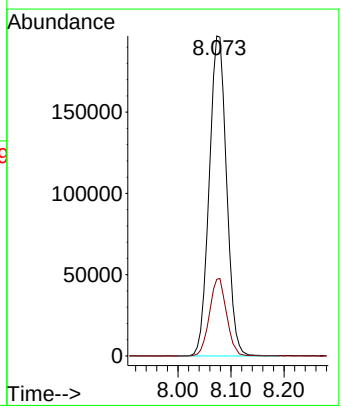


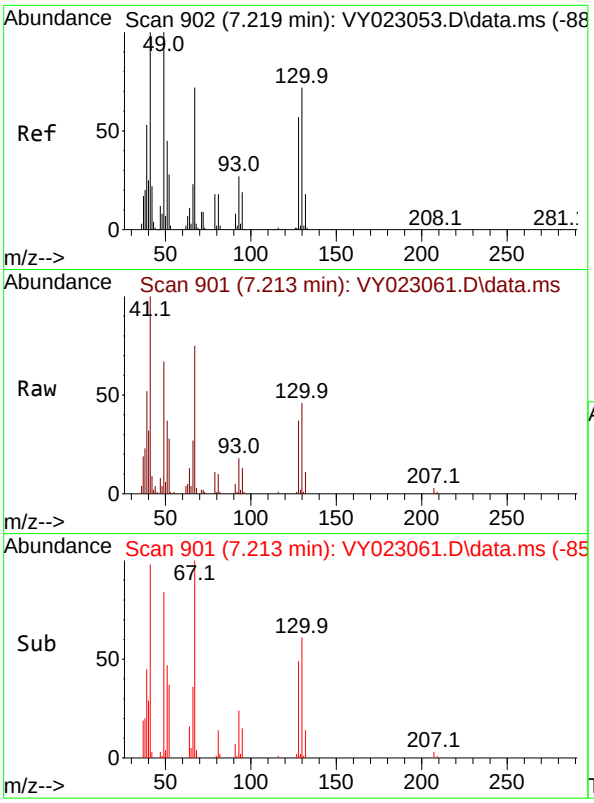




#40
Benzene
Concen: 21.020 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 78 Resp: 446973

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.9 | 18.6 | 28.0 |



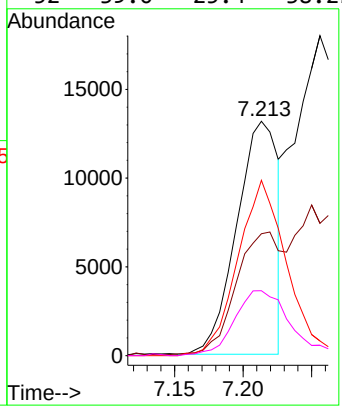


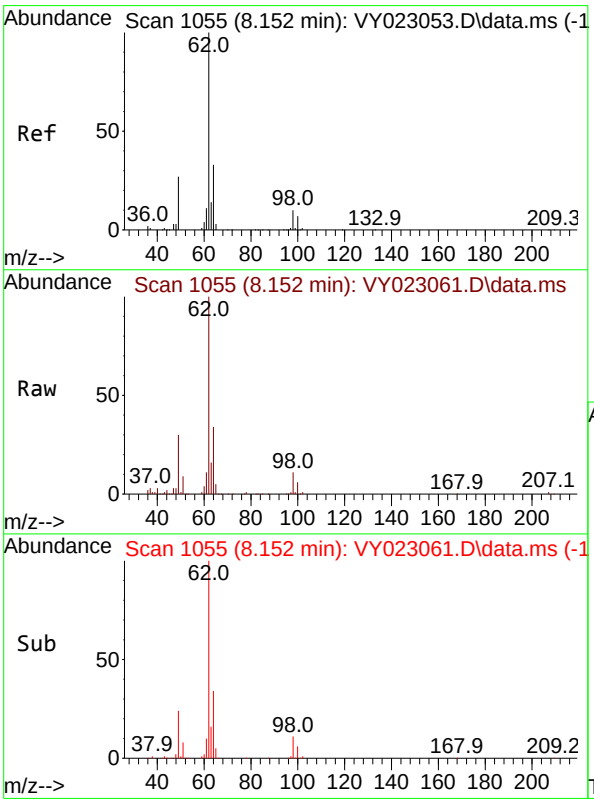

#41
Methacrylonitrile
Concen: 16.390 ug/l
RT: 7.213 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion: 41 Resp: 27413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 61.6 | 43.4 | 65.2 |
| 67 | 90.2 | 63.6 | 95.4 |
| 52 | 39.0 | 25.4 | 38.2# |

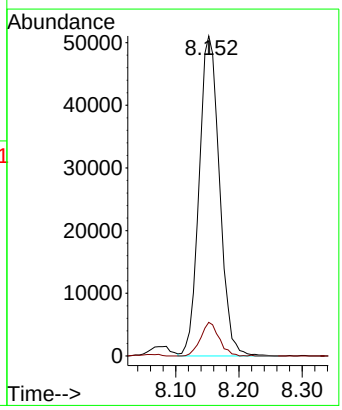


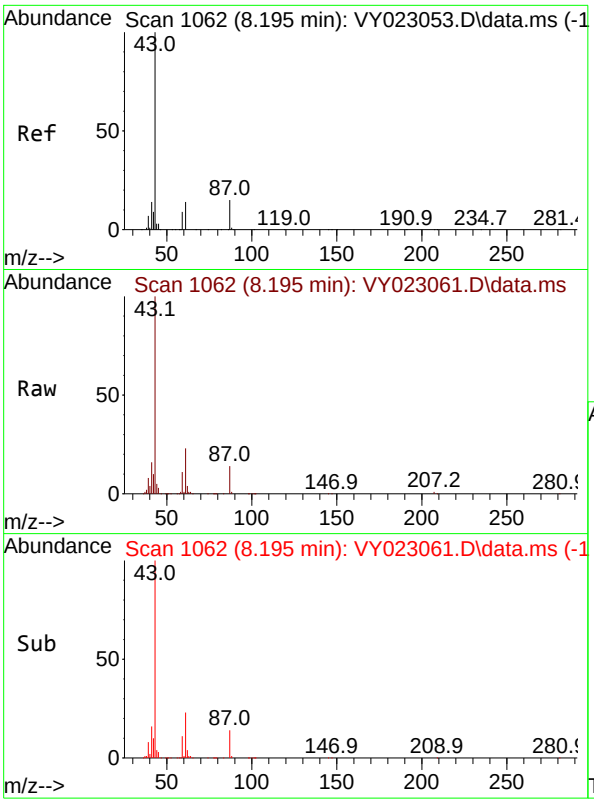




#42
1,2-Dichloroethane
Concen: 20.668 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 62 Resp: 114299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.6 | 0.0 | 20.6 |



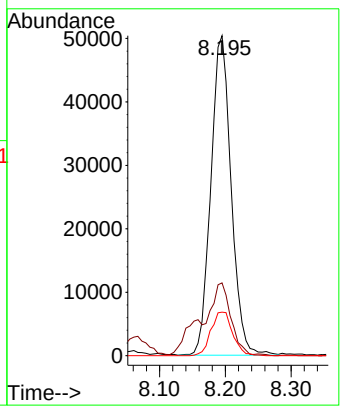


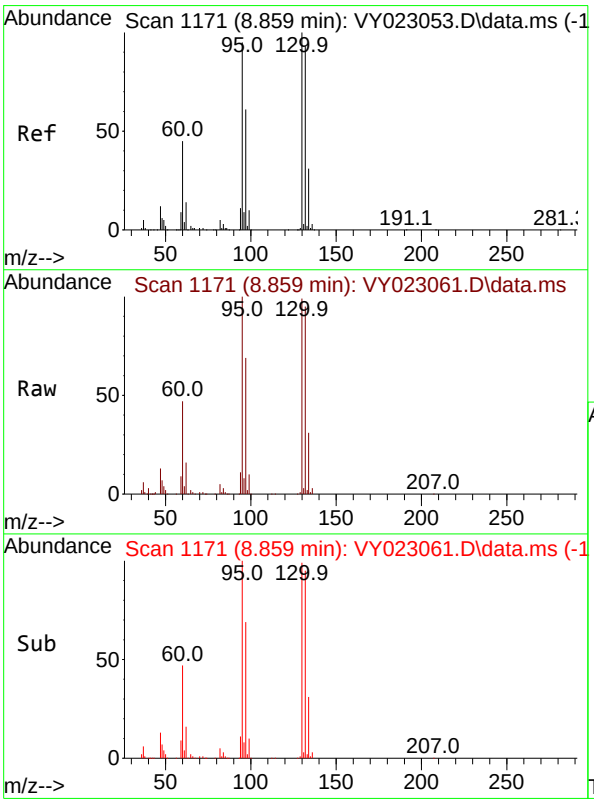

#43
Isopropyl Acetate
Concen: 18.507 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion: 43 Resp: 108405

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 22.2 | 16.4 | 24.6 |
| 87 | 14.5 | 11.8 | 17.6 |

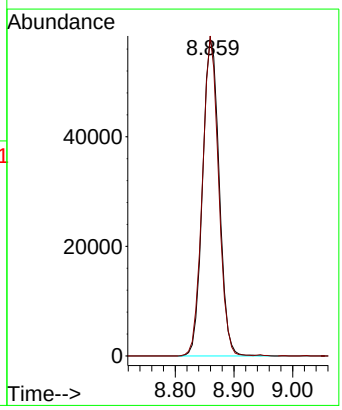


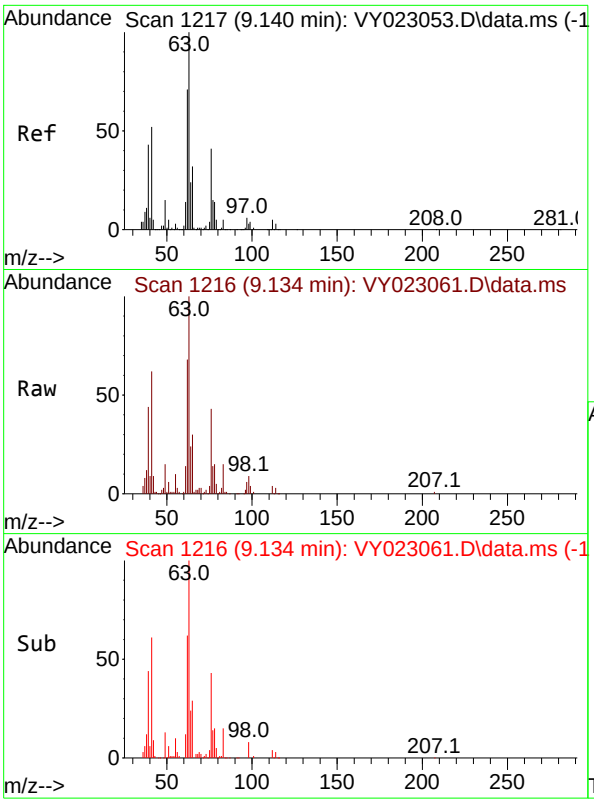




#44
Trichloroethene
Concen: 20.652 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:130 Resp: 113487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 101.0 | 0.0 | 190.2 |



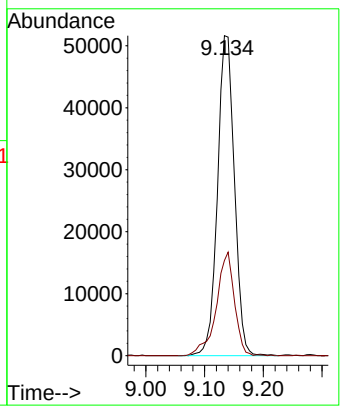


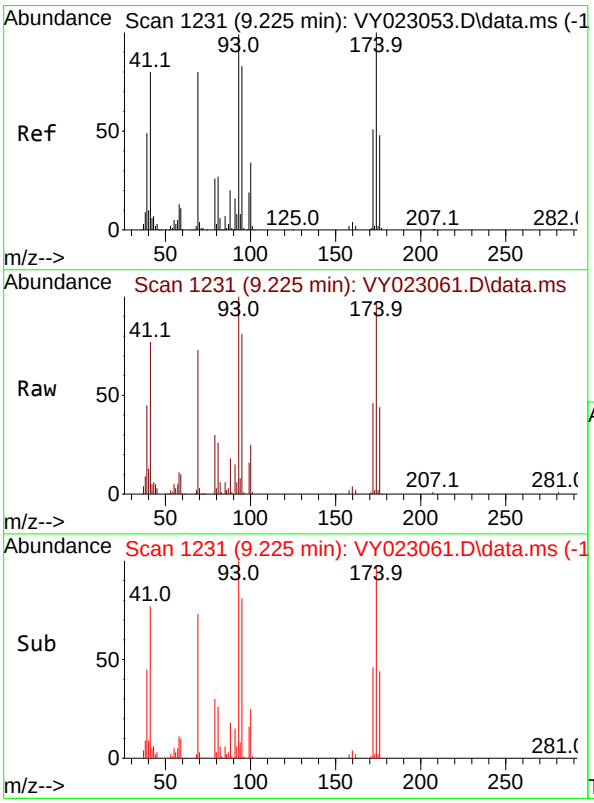

#45
1,2-Dichloropropane
Concen: 21.073 ug/l
RT: 9.134 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion: 63 Resp: 103105

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 29.8 | 25.3 | 37.9 |

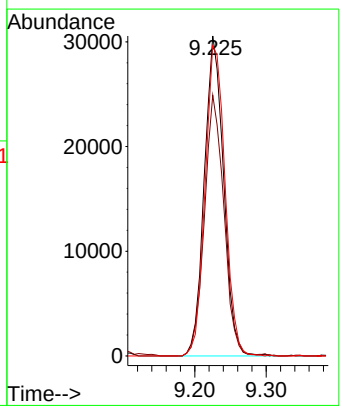


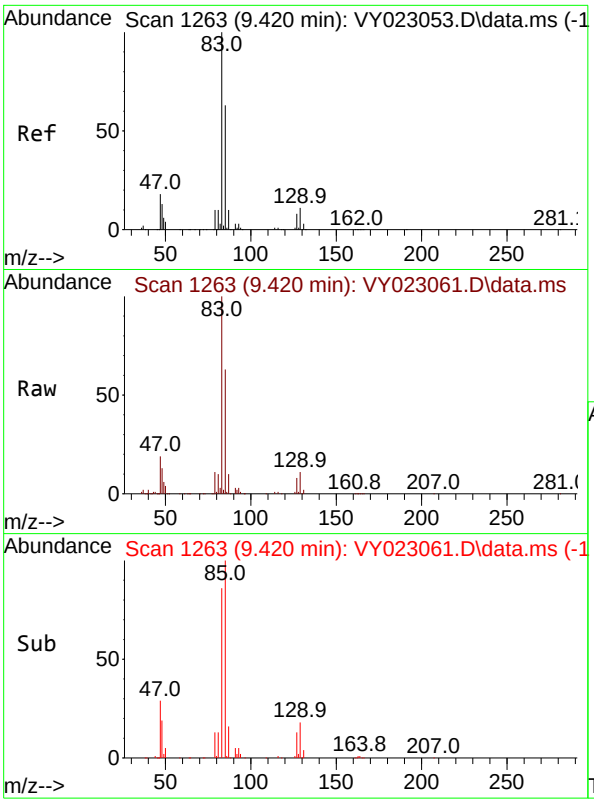




#46
Dibromomethane
Concen: 20.408 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 93 Resp: 57310

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.2 | 66.5 | 99.7 |
| 174 | 100.0 | 81.8 | 122.8 |



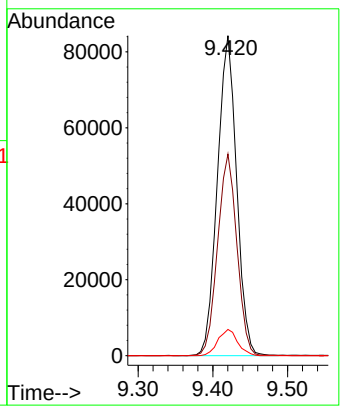


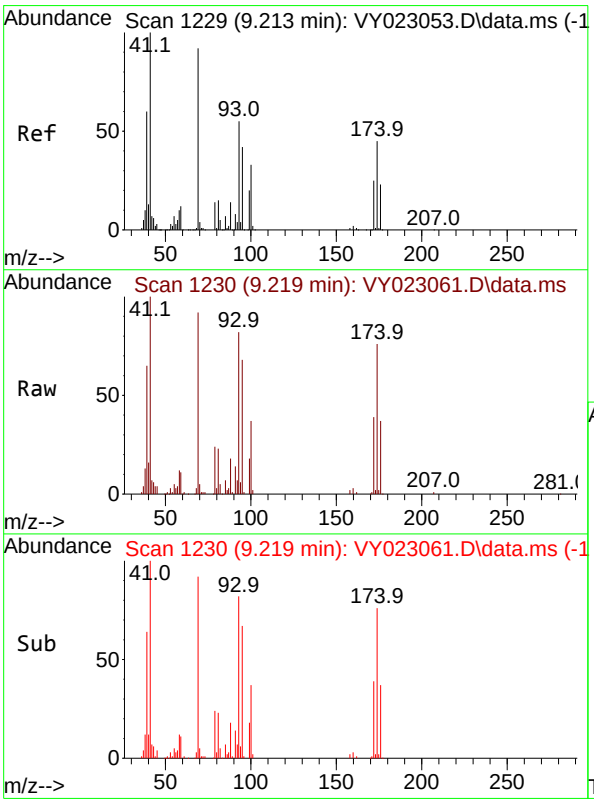

#47
Bromodichloromethane
Concen: 20.900 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion: 83 Resp: 151024

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.0 | 50.2 | 75.4 |
| 127 | 8.2 | 6.6 | 10.0 |

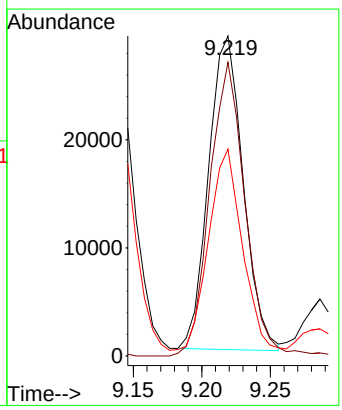


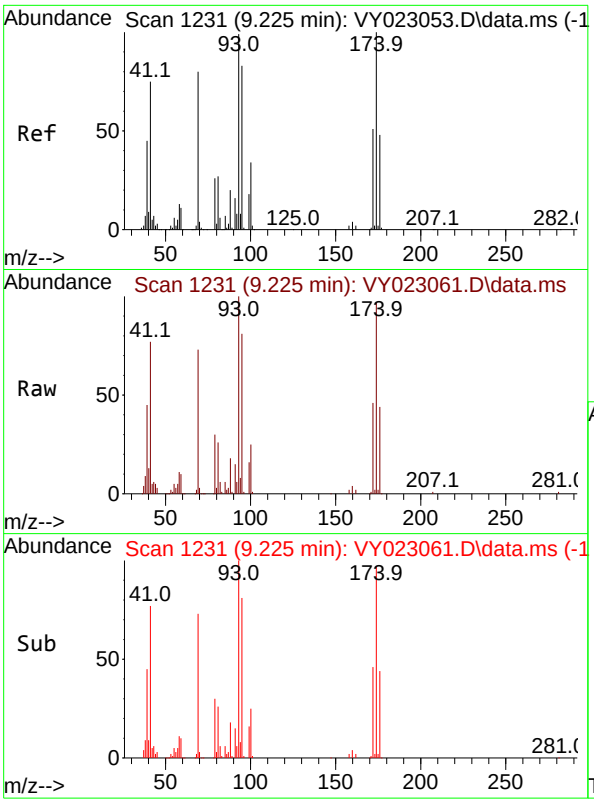




#48
Methyl methacrylate
Concen: 18.207 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 41 Resp: 51033

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 95.5 | 73.2 | 109.8 |
| 39 | 62.7 | 47.0 | 70.4 |



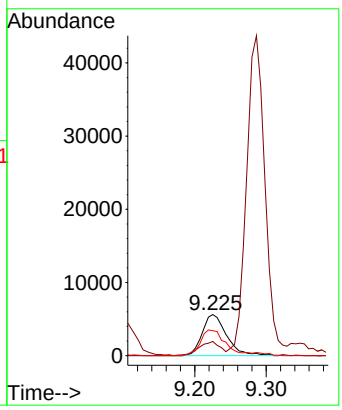


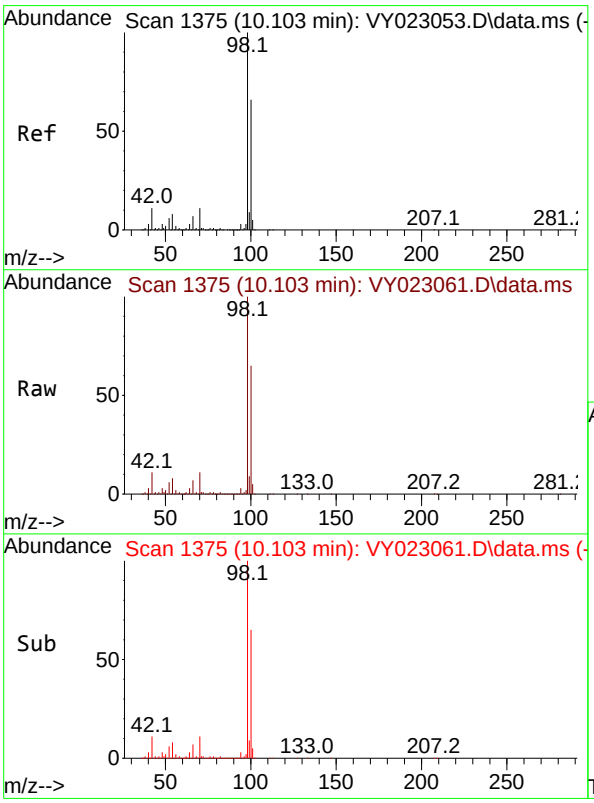

#49
1,4-Dioxane
Concen: 405.561 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion: 88 Resp: 13354

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 29.7 | 24.3 | 36.5 |
| 58 | 68.0 | 55.4 | 83.0 |

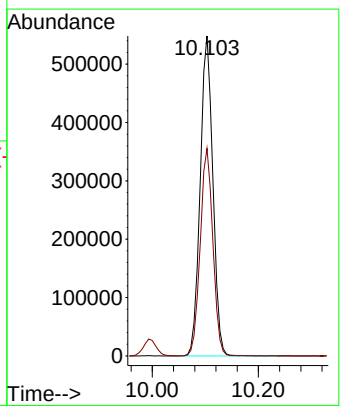


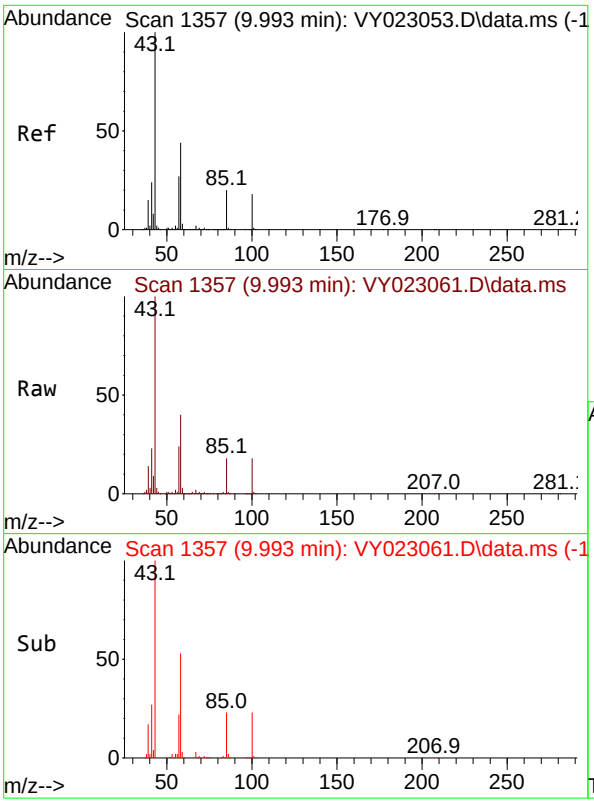




#50
Toluene-d8
Concen: 49.992 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 98 Resp: 906626

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.7 | 52.3 | 78.5 |



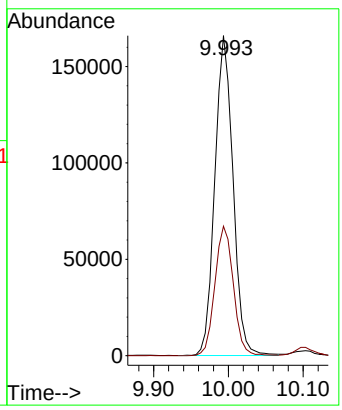


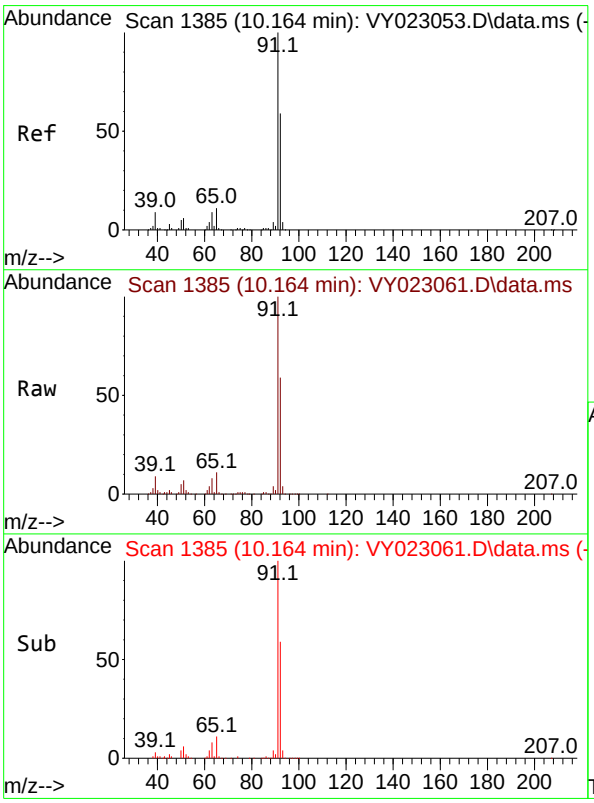

#51
4-Methyl-2-Pentanone
Concen: 93.183 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion: 43 Resp: 281551

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 41.1 | 33.5 | 50.3 |

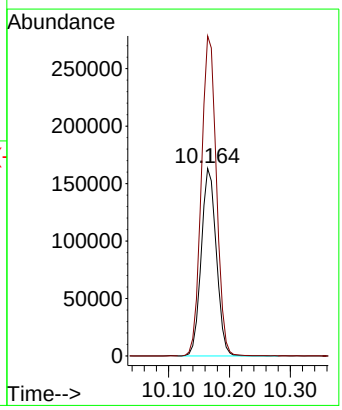


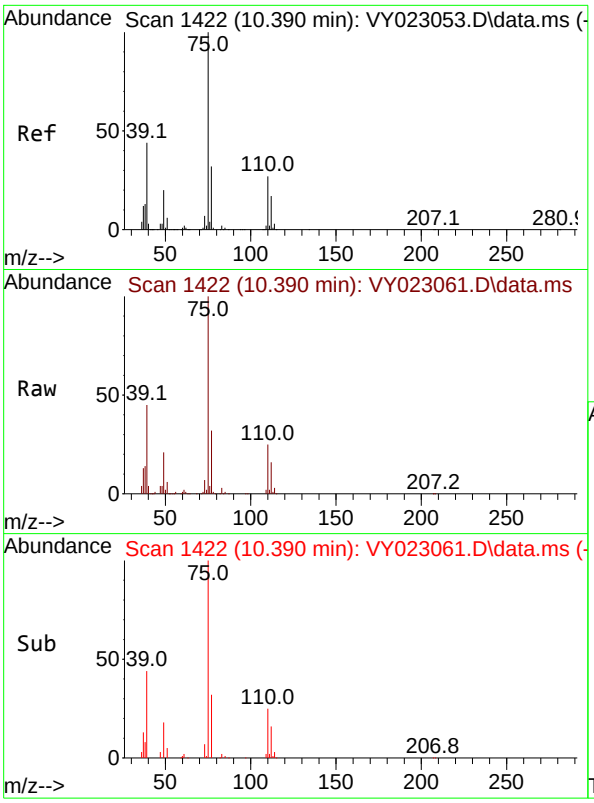




#52
Toluene
Concen: 20.769 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 92 Resp: 280495

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 170.9 | 136.4 | 204.6 |



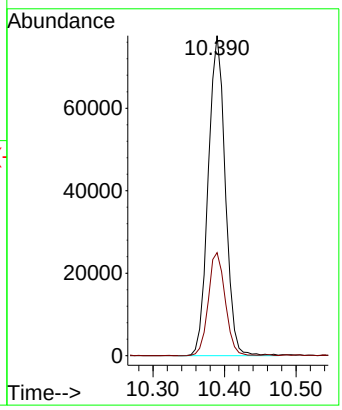


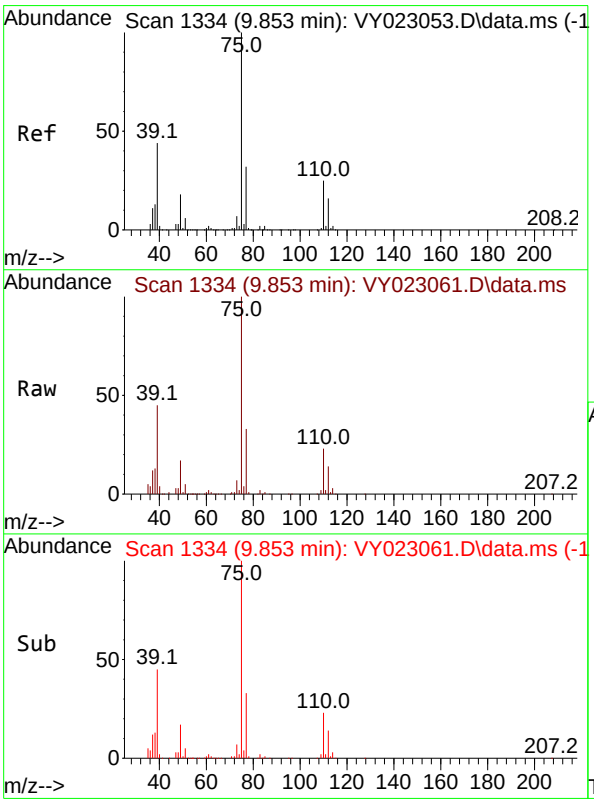

#53
t-1,3-Dichloropropene
Concen: 19.584 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion: 75 Resp: 128144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.2 | 25.7 | 38.5 |

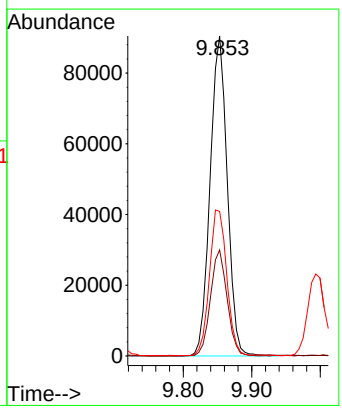


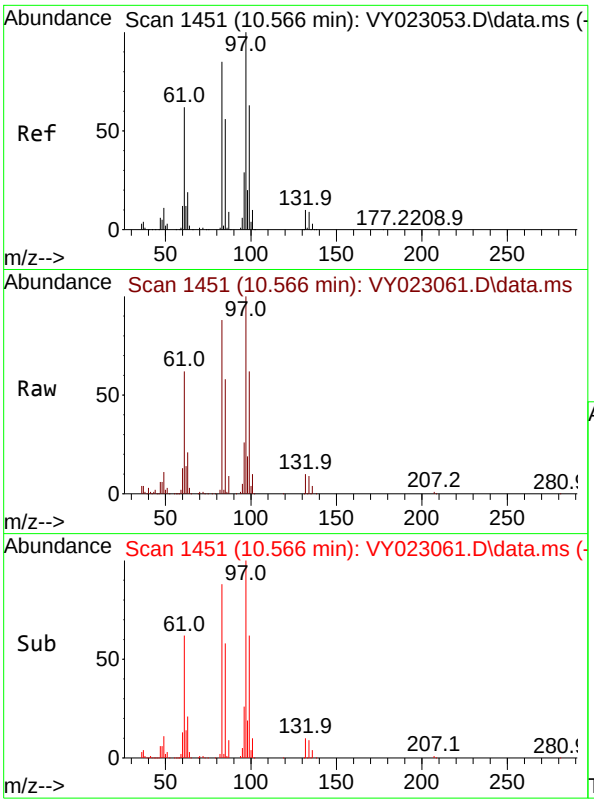




#54
cis-1,3-Dichloropropene
Concen: 20.305 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 75 Resp: 157108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 33.2 | 25.4 | 38.0 |
| 39 | 45.1 | 35.6 | 53.4 |



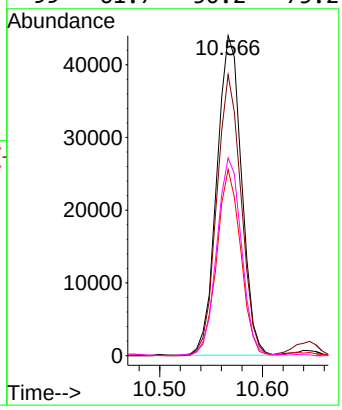


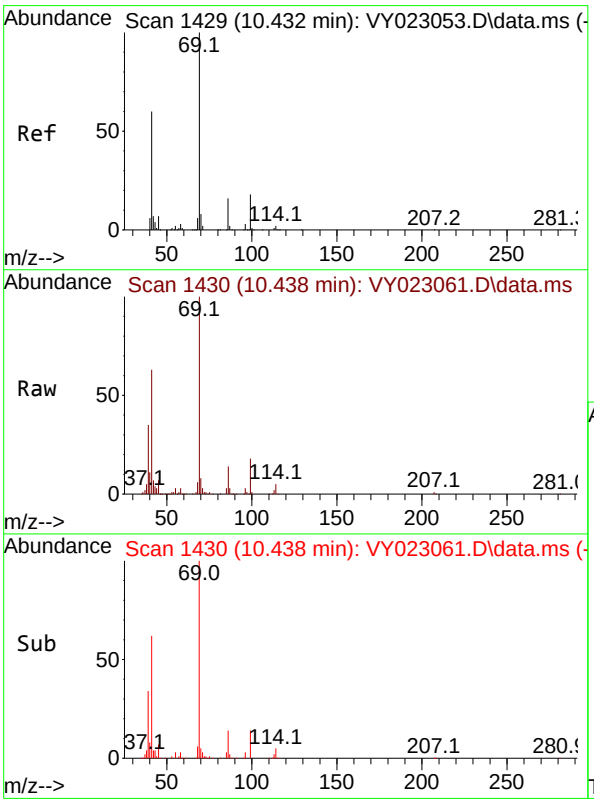

#55
1,1,2-Trichloroethane
Concen: 19.554 ug/l
RT: 10.566 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion: 97 Resp: 73477

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 87.9 | 67.7 | 101.5 |
| 85 | 58.3 | 44.5 | 66.7 |
| 99 | 61.7 | 50.2 | 75.2 |

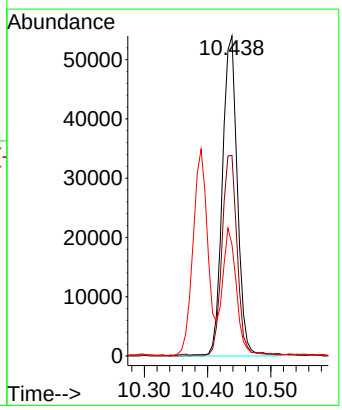


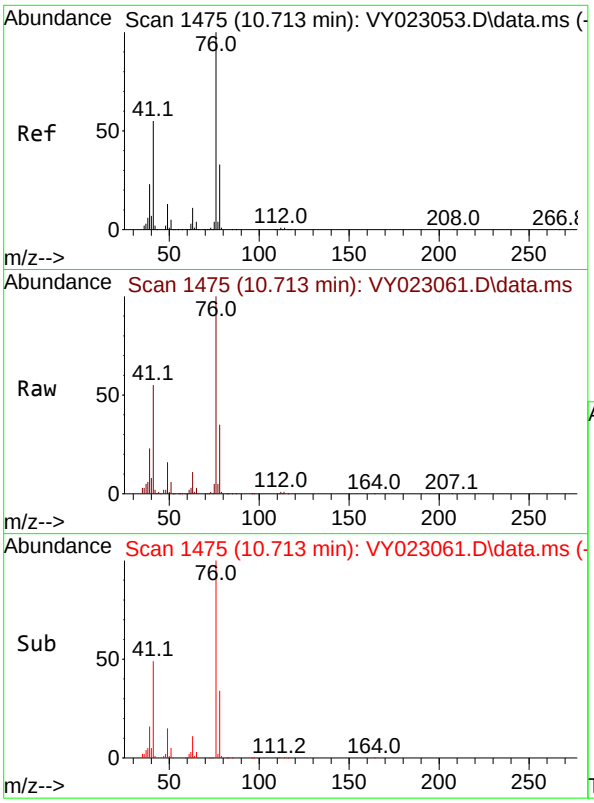




#56
Ethyl methacrylate
Concen: 18.338 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 69 Resp: 88174

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 62.4 | 48.6 | 72.8 |
| 39 | 35.5 | 27.0 | 40.4 |



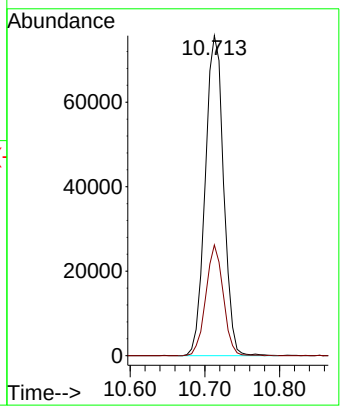


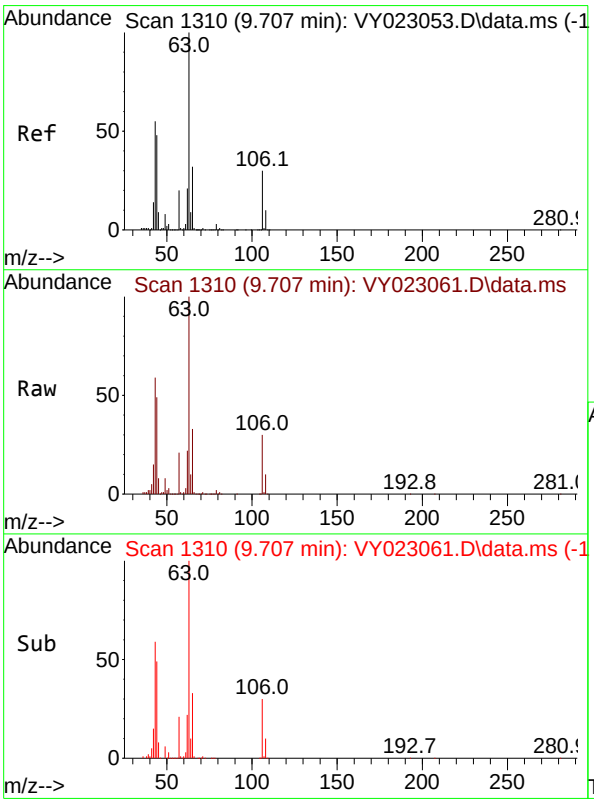

#57
1,3-Dichloropropane
Concen: 20.247 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion: 76 Resp: 129029

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.9 | 26.0 | 39.0 |

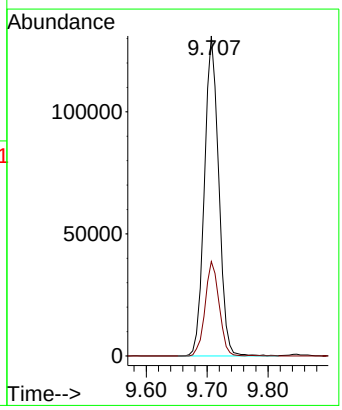


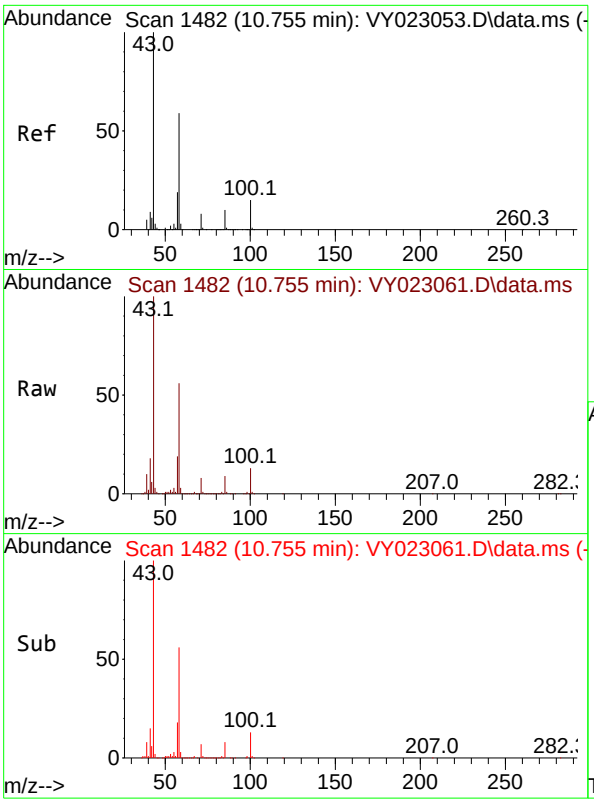




#58
2-Chloroethyl Vinyl ether
Concen: 94.383 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 63 Resp: 214069

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 28.9 | 23.2 | 34.8 |



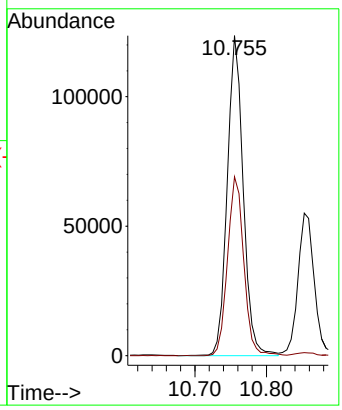


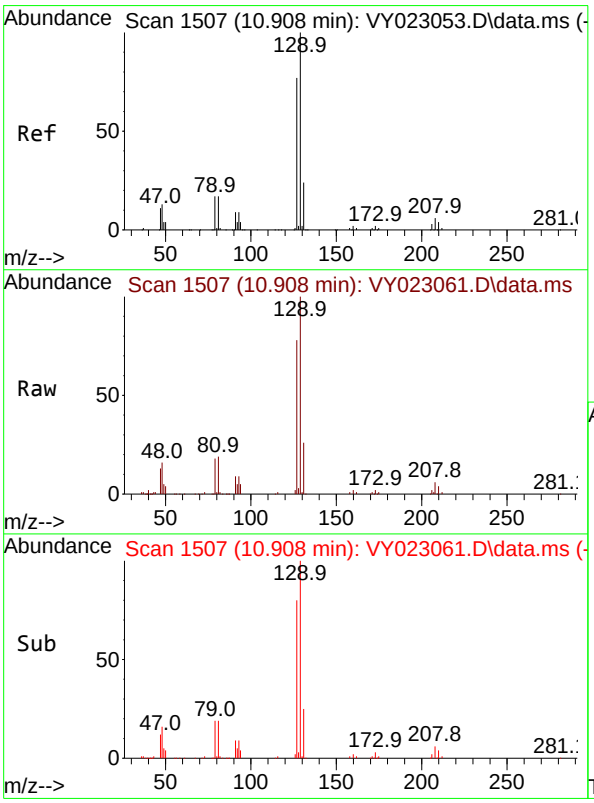

#59
2-Hexanone
Concen: 92.987 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion: 43 Resp: 191315

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 57.0 | 29.5 | 88.5 |

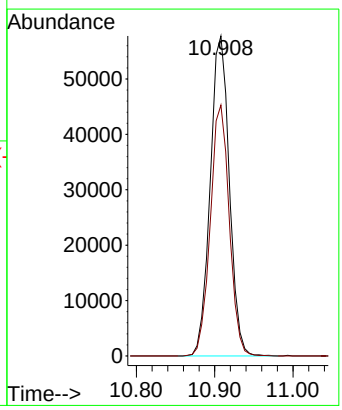


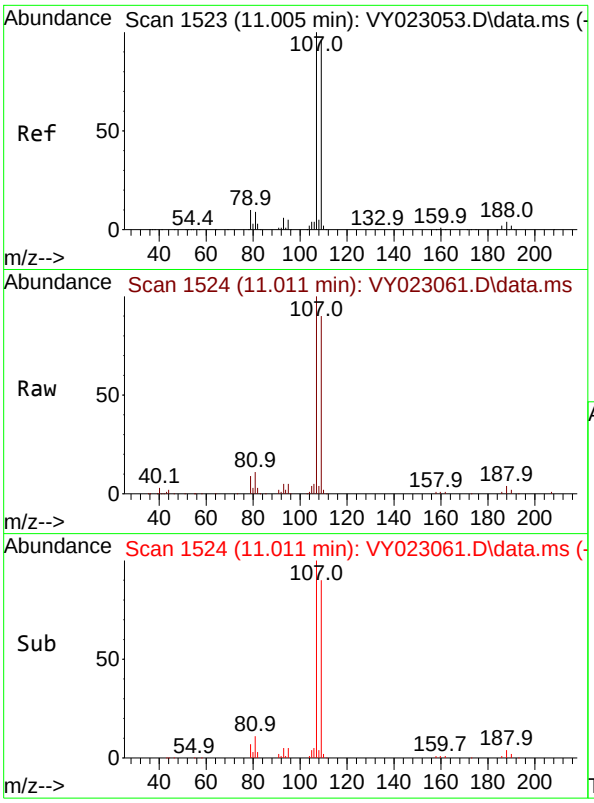




#60
Dibromochloromethane
Concen: 19.755 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:129 Resp: 97950

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.8 | 38.5 | 115.5 |



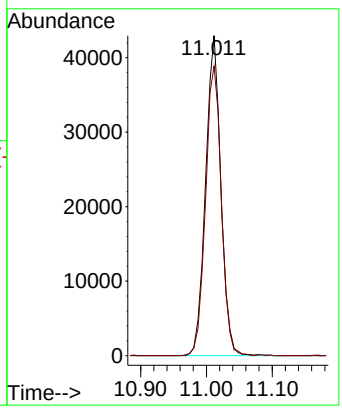


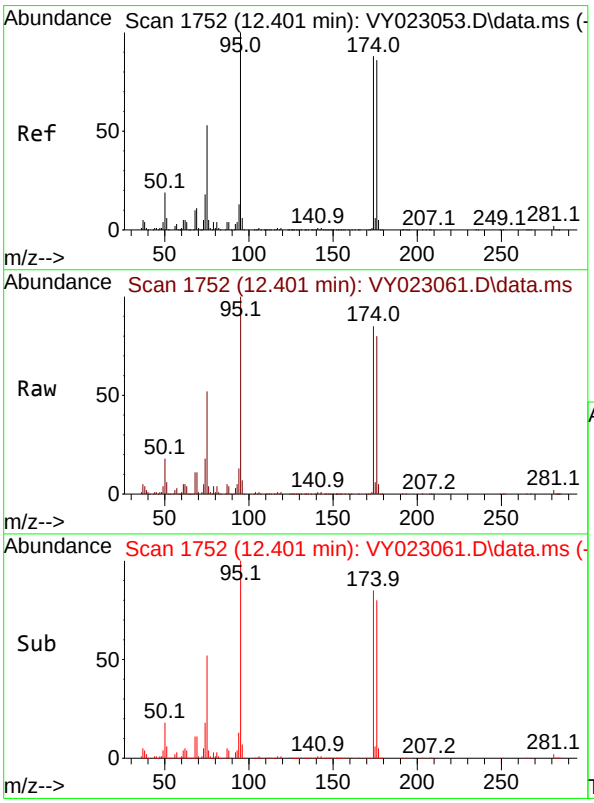

#61
1,2-Dibromoethane
Concen: 19.632 ug/l
RT: 11.011 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion:107 Resp: 69337

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.5 | 75.6 | 113.4 |

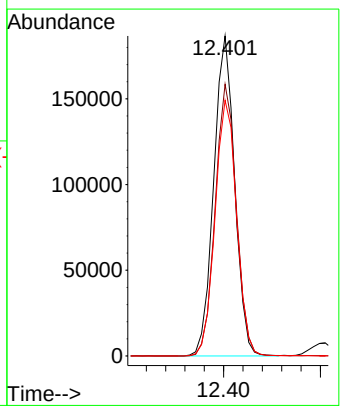


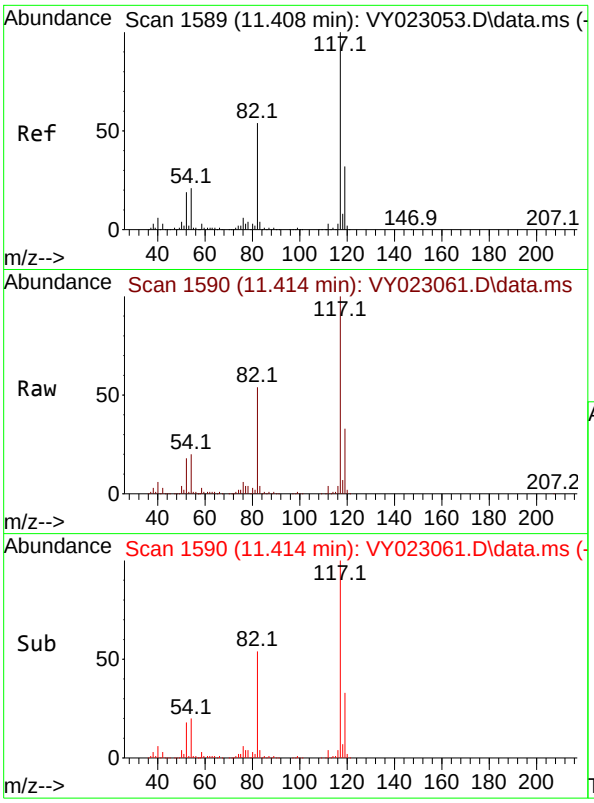




#62
4-Bromofluorobenzene
Concen: 47.943 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 95 Resp: 279619

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 85.7 | 0.0 | 171.6 |
| 176 | 82.3 | 0.0 | 167.6 |



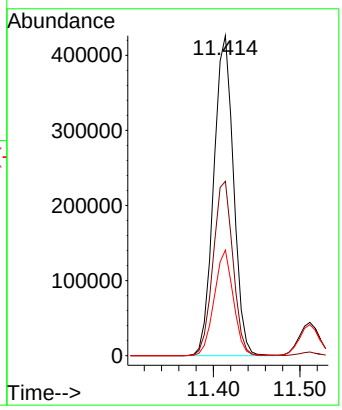


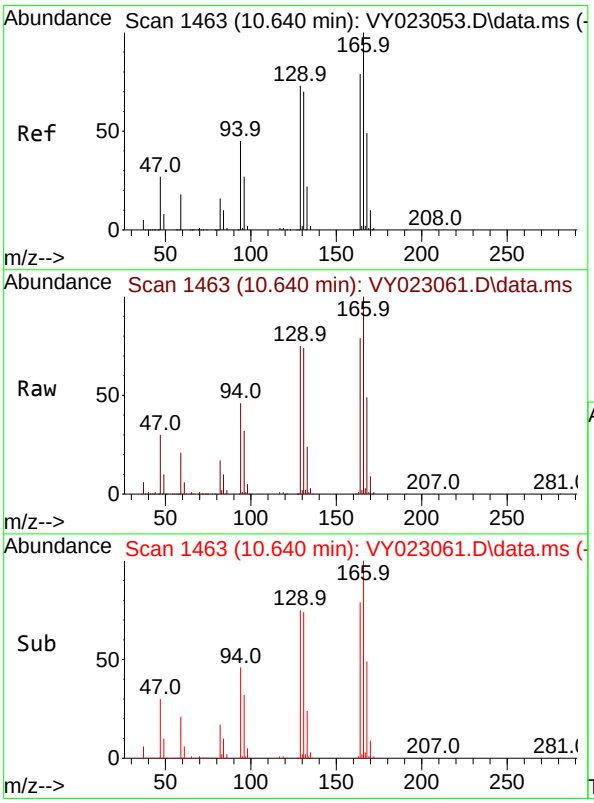

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion:117 Resp: 675926

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.5 | 43.4 | 65.0 |
| 119 | 33.0 | 25.6 | 38.4 |

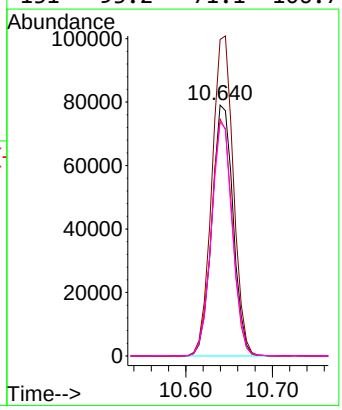


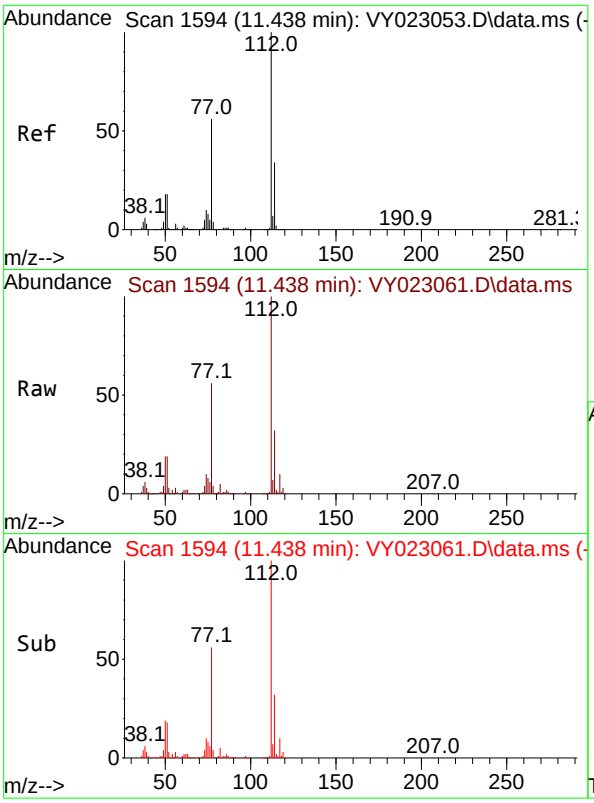




#64
Tetrachloroethene
Concen: 22.223 ug/l
RT: 10.640 min Scan# 1463
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:164 Resp: 134131

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 126.1 | 101.1 | 151.7 |
| 129 | 94.4 | 74.0 | 111.0 |
| 131 | 93.2 | 71.1 | 106.7 |



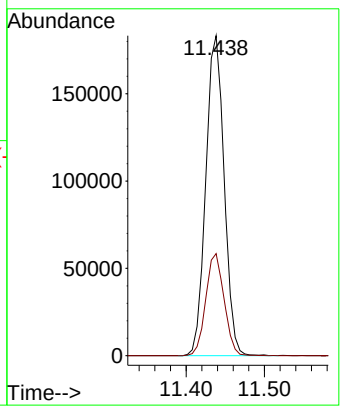


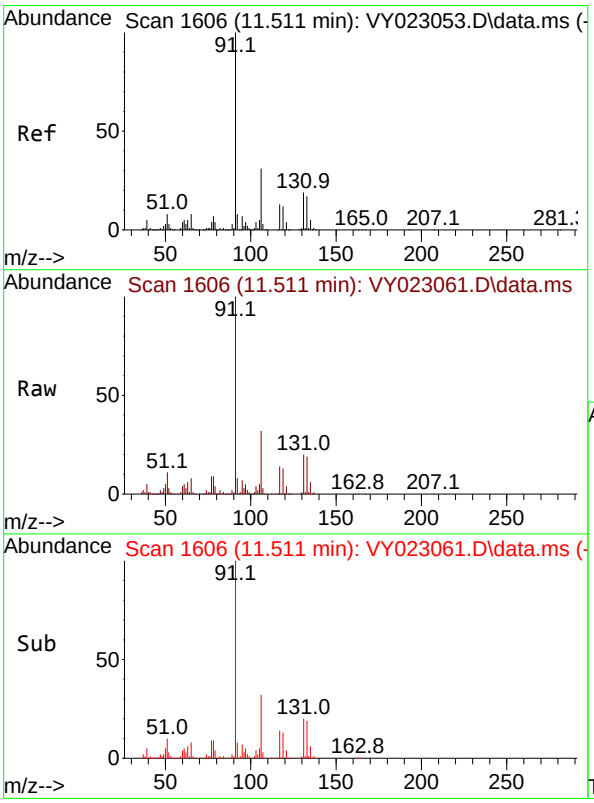

#65
Chlorobenzene
Concen: 20.431 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion:112 Resp: 297874

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.9 | 27.0 | 40.4 |

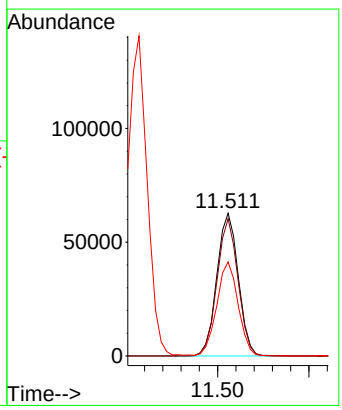


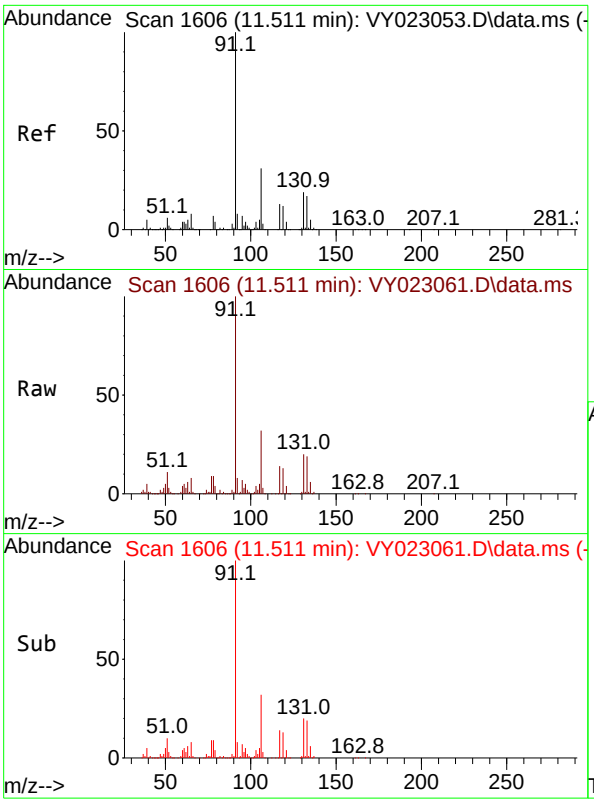




#66
1,1,1,2-Tetrachloroethane
Concen: 20.592 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:131 Resp: 101895

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.6 | 46.9 | 140.6 |
| 119 | 65.9 | 33.2 | 99.6 |



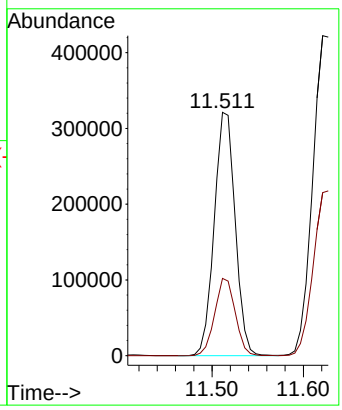


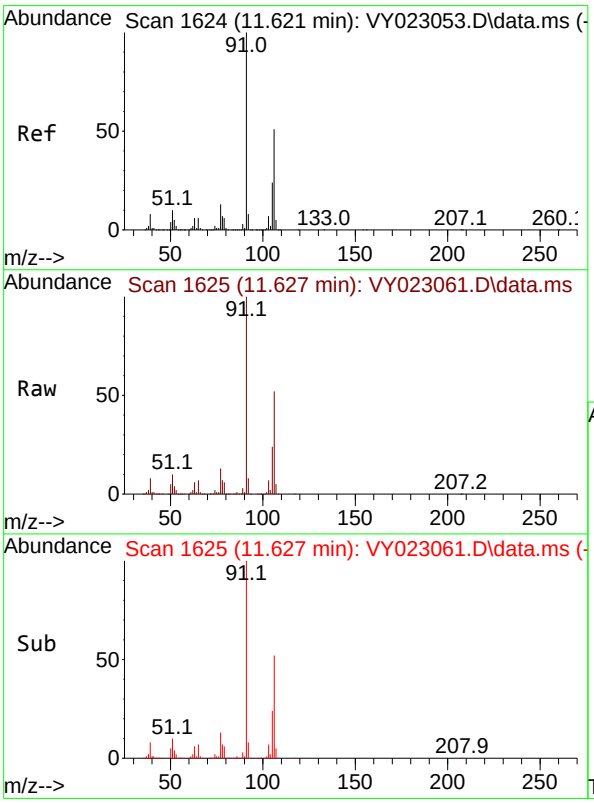

#67
Ethyl Benzene
Concen: 20.430 ug/l
RT: 11.511 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion: 91 Resp: 512586

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.8 | 25.0 | 37.4 |

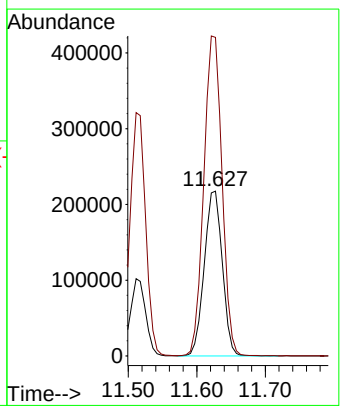


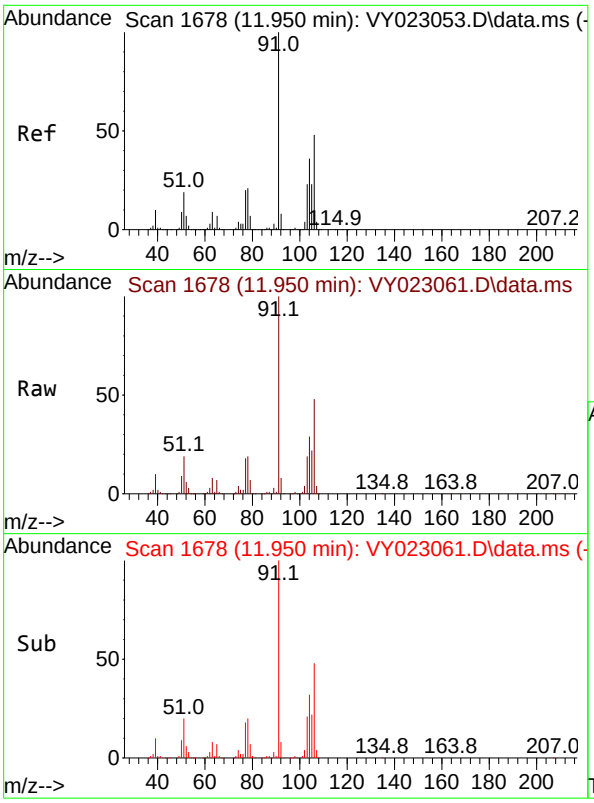




#68
m/p-Xylenes
Concen: 40.752 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:106 Resp: 399348

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 195.8 | 158.6 | 238.0 |



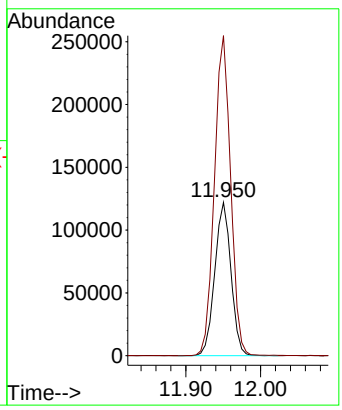


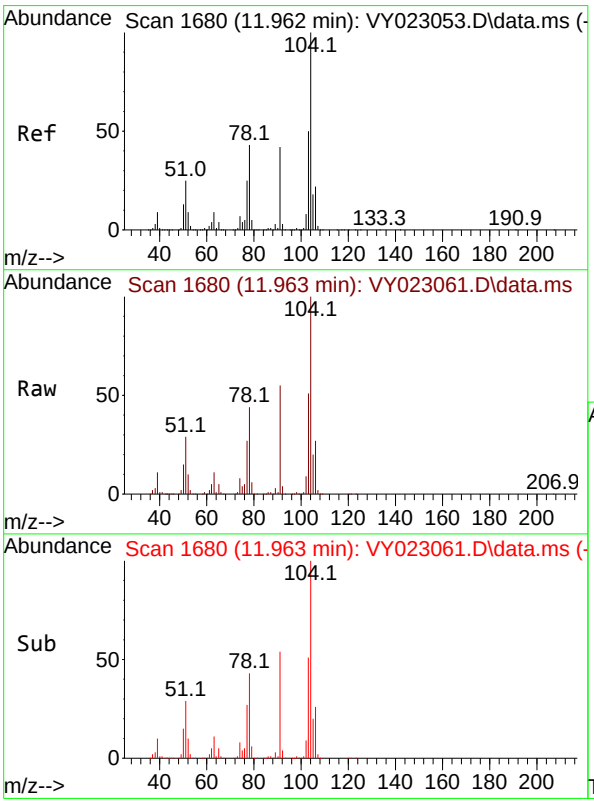

#69
o-Xylene
Concen: 20.065 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion:106 Resp: 184155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 209.2 | 103.2 | 309.4 |

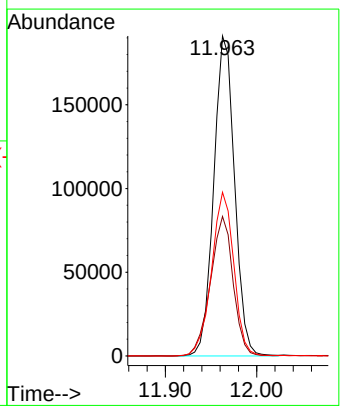


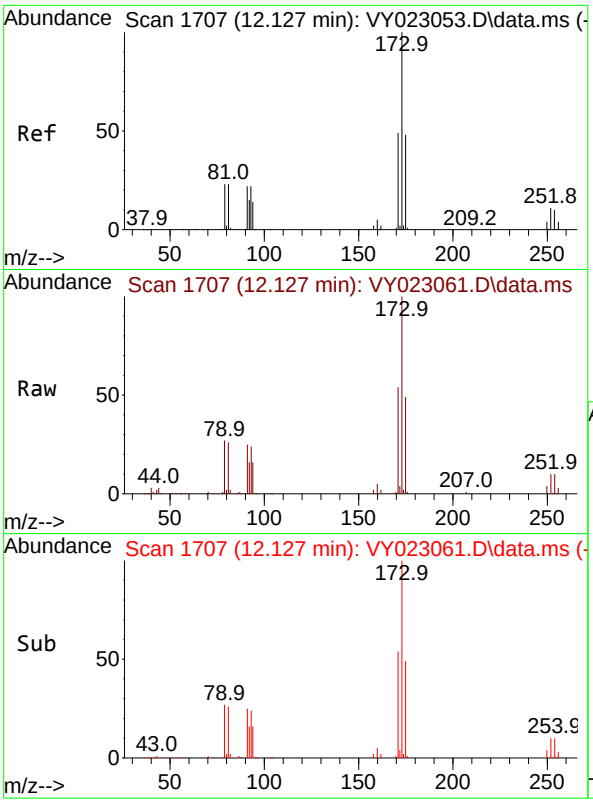




#70
Styrene
Concen: 20.179 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:104 Resp: 302870

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 47.3 | 38.5 | 57.7 |
| 103 | 54.5 | 43.7 | 65.5 |



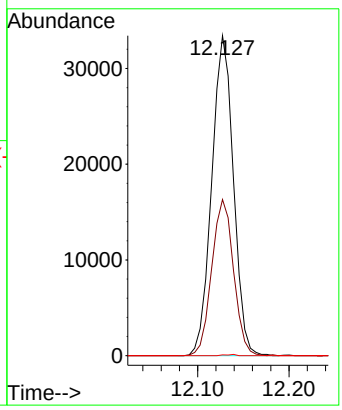


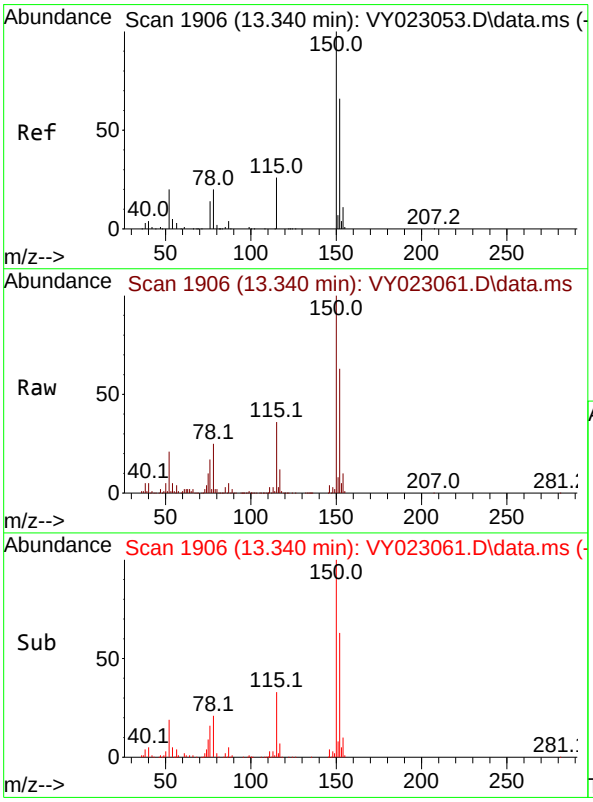

#71
Bromoform
Concen: 19.039 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion:173 Resp: 55061

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.1 | 23.9 | 71.7 |
| 254 | 0.2 | 0.1 | 0.1# |

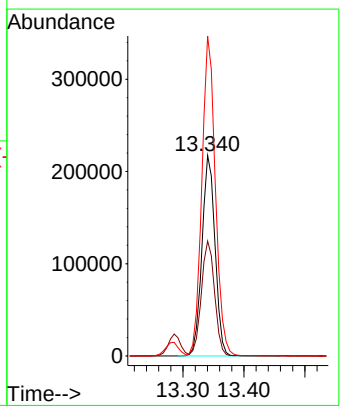


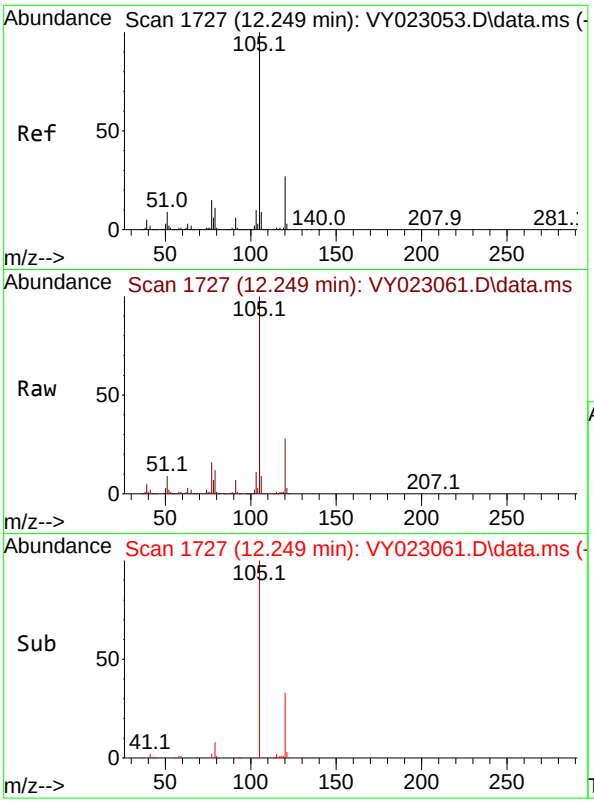




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:152 Resp: 325106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.7 | 28.2 | 84.6 |
| 150 | 164.8 | 0.0 | 348.0 |



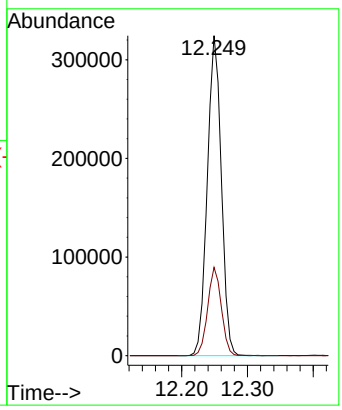


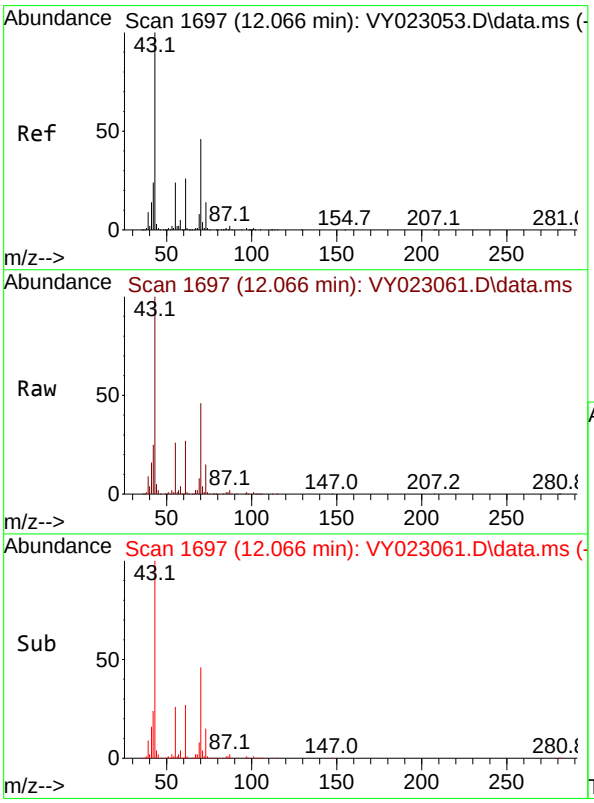

#73
Isopropylbenzene
Concen: 20.975 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion:105 Resp: 481276

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.9 | 13.4 | 40.2 |

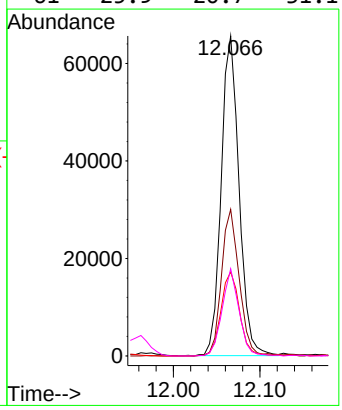


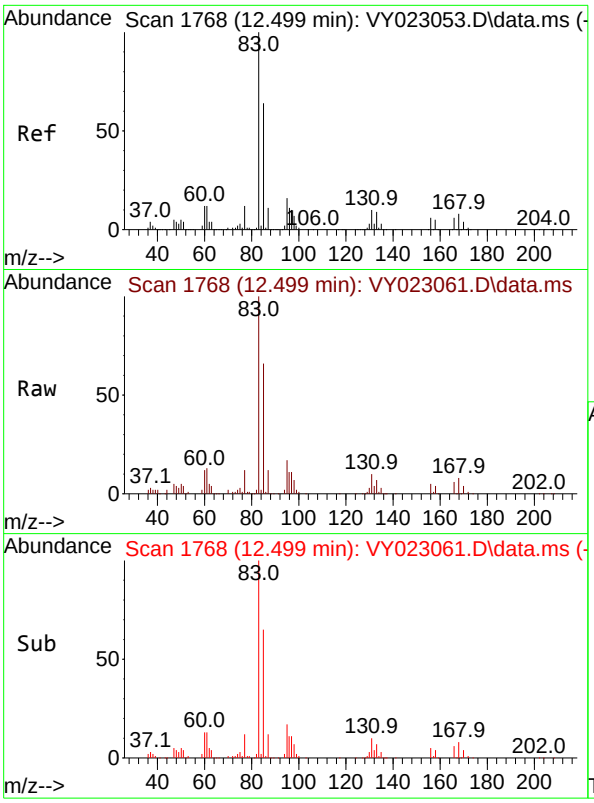




#74
N-amyl acetate
Concen: 19.346 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 43 Resp: 94137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 45.7 | 37.5 | 56.3 |
| 55 | 27.5 | 20.7 | 31.1 |
| 61 | 25.9 | 20.7 | 31.1 |



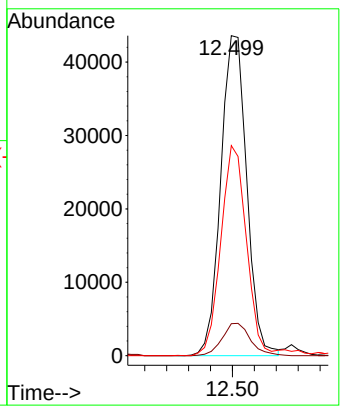


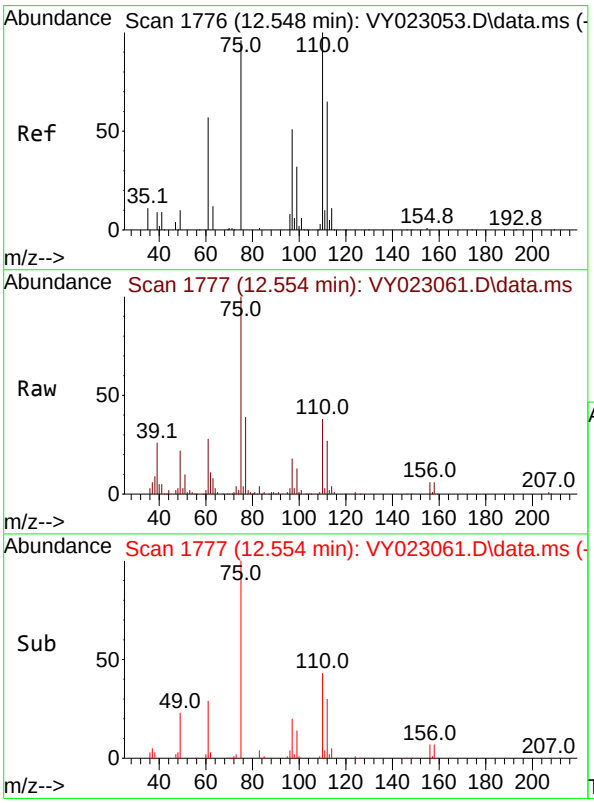

#75
1,1,2,2-Tetrachloroethane
Concen: 18.344 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion: 83 Resp: 71870

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 11.0 | 5.1 | 15.3 |
| 85 | 64.7 | 31.8 | 95.3 |

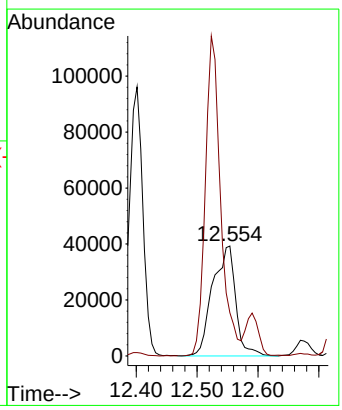


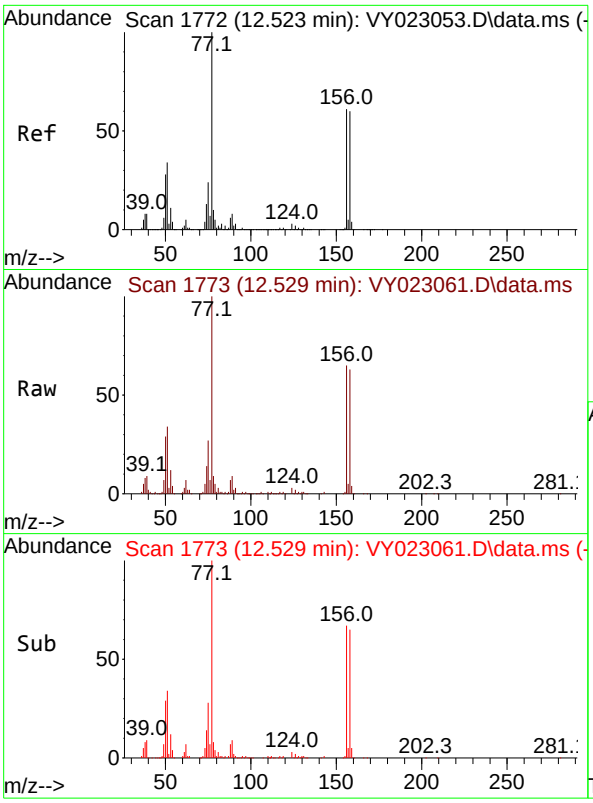




#76
1,2,3-Trichloropropane
Concen: 32.950 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 75 Resp: 103385

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |



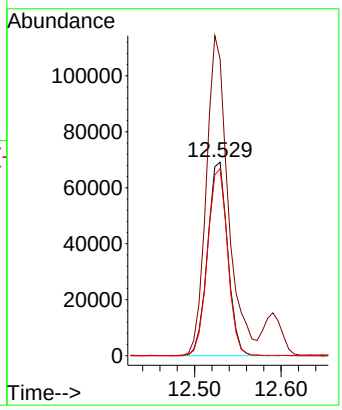


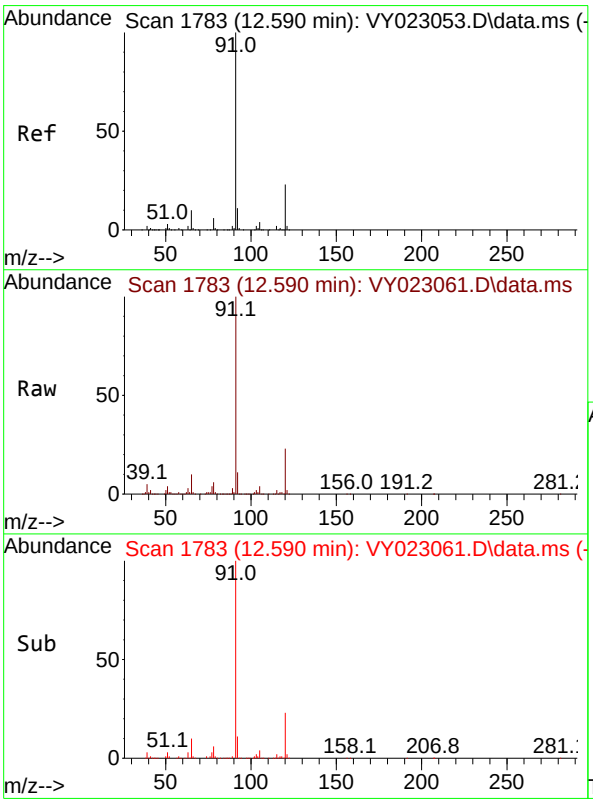

#77
Bromobenzene
Concen: 20.369 ug/l
RT: 12.529 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion:156 Resp: 111502

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 180.3 | 88.1 | 264.4 |
| 158 | 96.4 | 48.0 | 144.0 |

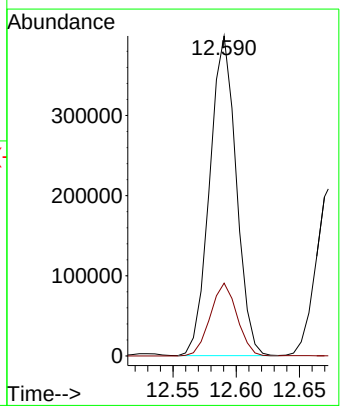


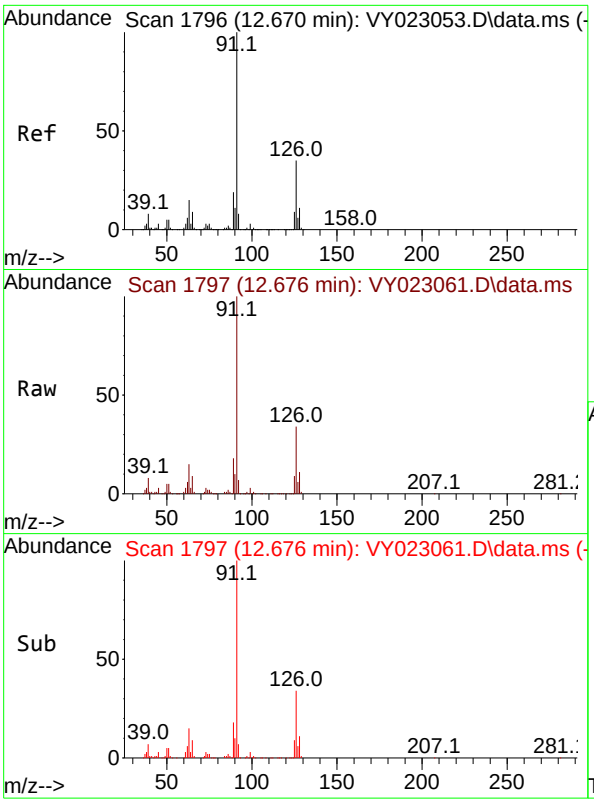




#78
n-propylbenzene
Concen: 21.291 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 91 Resp: 581635

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.9 | 11.5 | 34.5 |



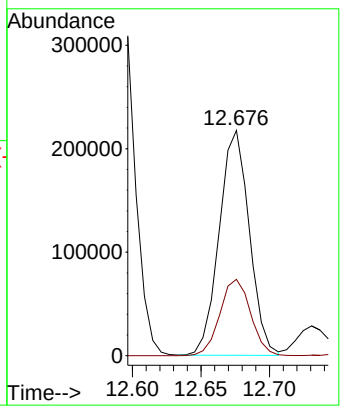


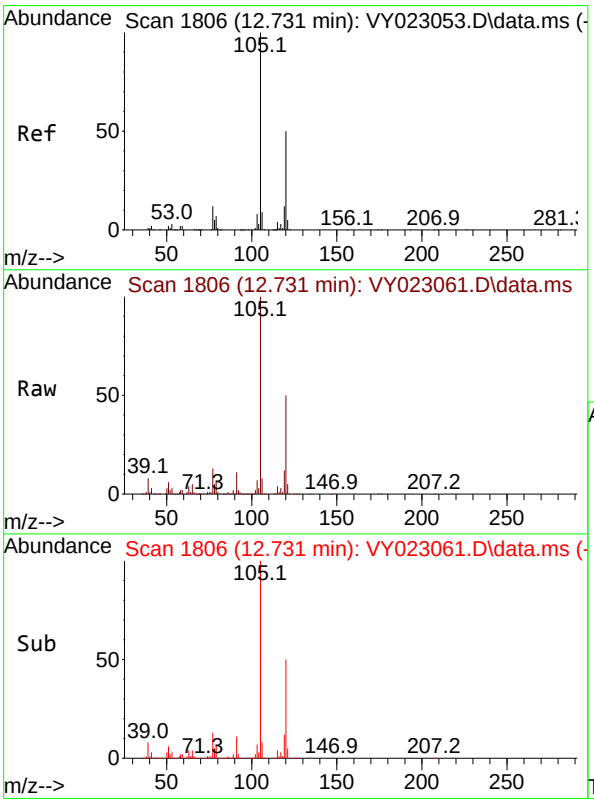

#79
2-Chlorotoluene
Concen: 21.244 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion: 91 Resp: 332511

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.6 | 17.4 | 52.3 |

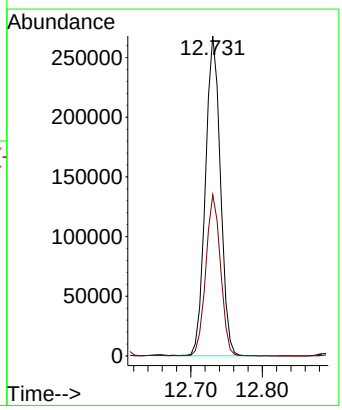


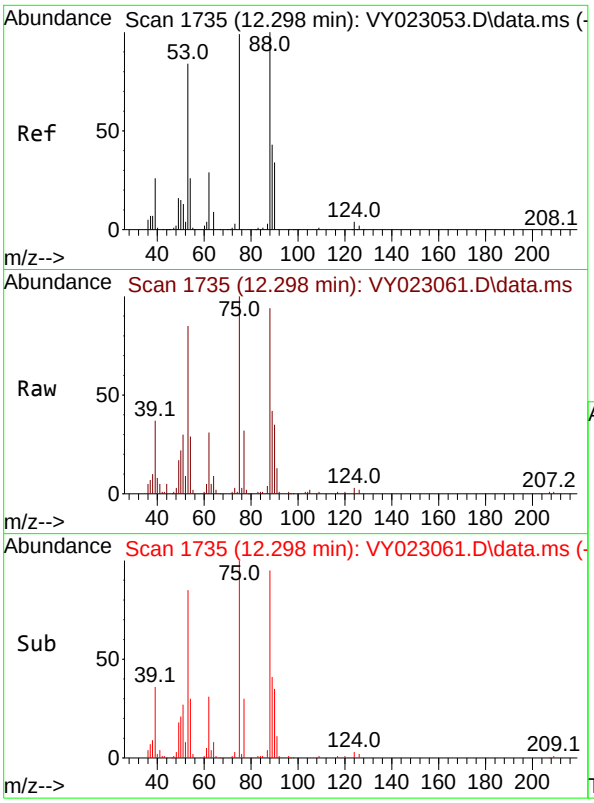




#80
1,3,5-Trimethylbenzene
Concen: 21.055 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:105 Resp: 390462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.4 | 24.8 | 74.4 |



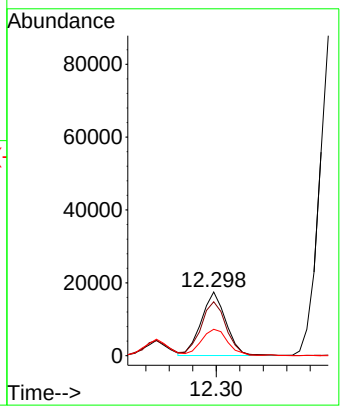


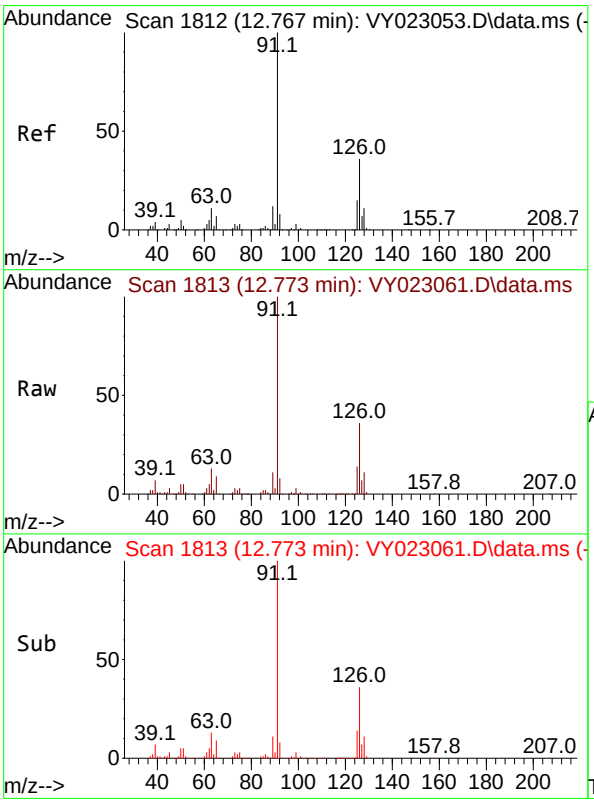

#81
trans-1,4-Dichloro-2-butene
Concen: 19.514 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion: 75 Resp: 25293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 88.0 | 70.8 | 106.2 |
| 89 | 43.7 | 38.1 | 57.1 |

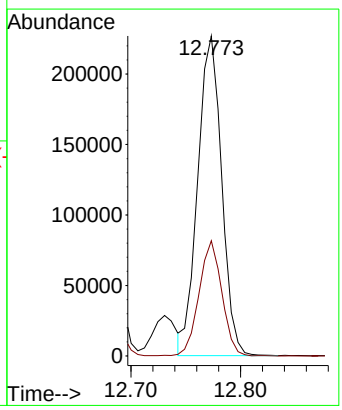


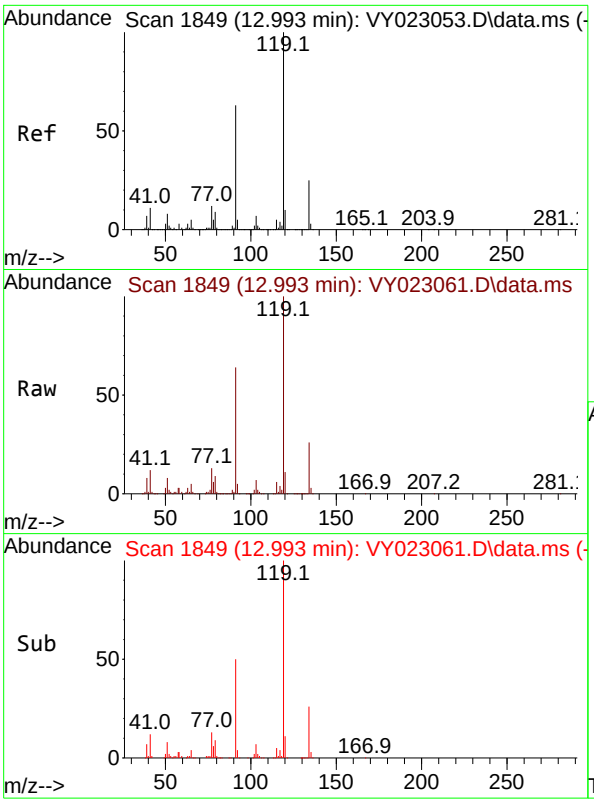




#82
4-Chlorotoluene
Concen: 21.176 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 91 Resp: 343845

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.5 | 17.3 | 52.0 |



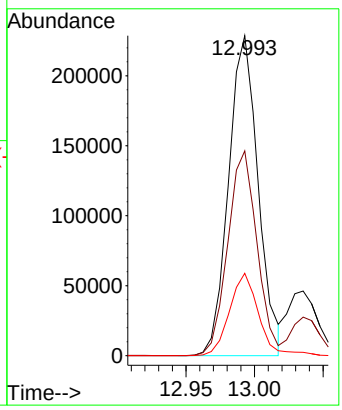


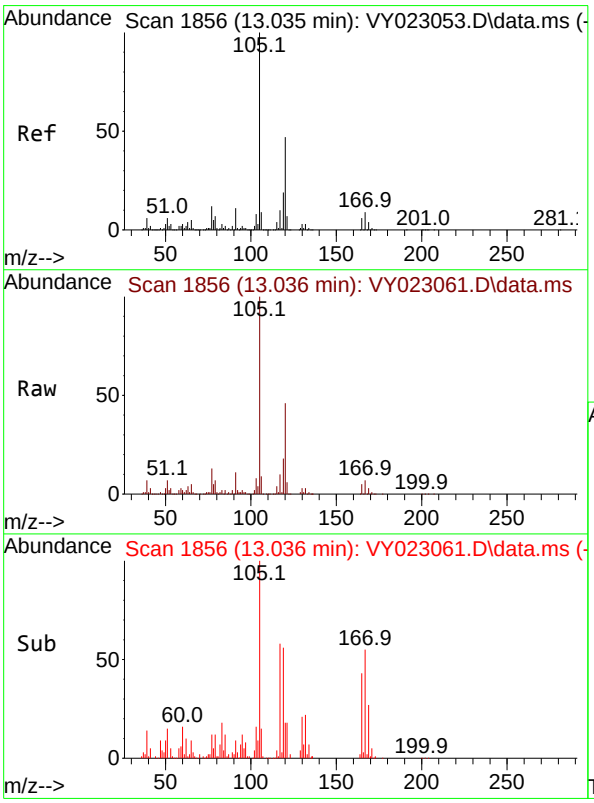

#83
tert-Butylbenzene
Concen: 20.545 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion:119 Resp: 344106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 63.0 | 31.6 | 94.8 |
| 134 | 25.4 | 12.9 | 38.7 |

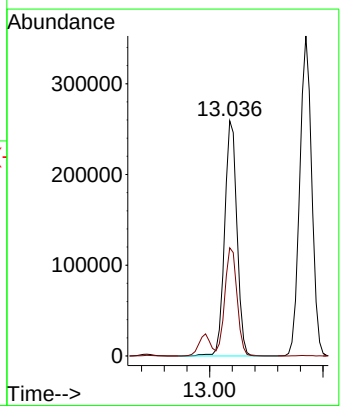


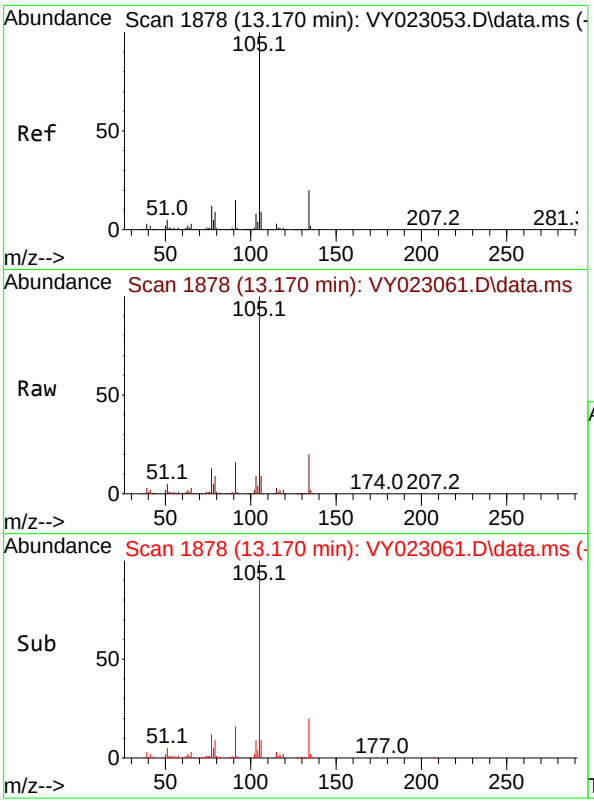




#84
1,2,4-Trimethylbenzene
Concen: 21.128 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:105 Resp: 390034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.5 | 23.0 | 69.0 |



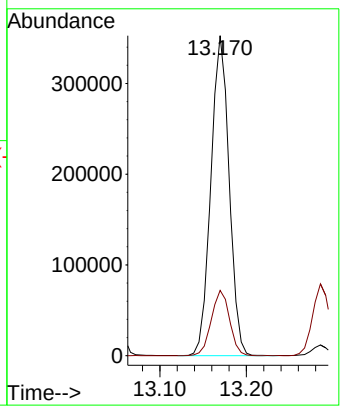


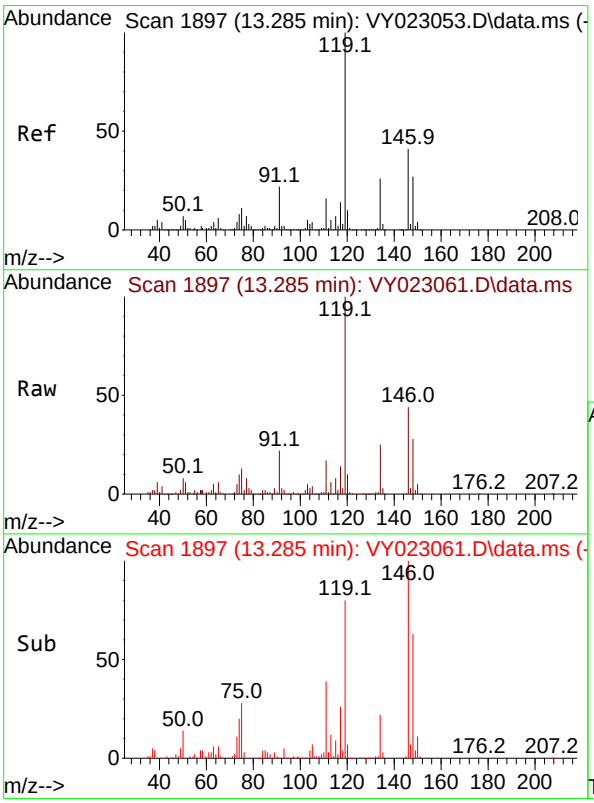

#85
sec-Butylbenzene
Concen: 20.962 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion:105 Resp: 515732

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.4 | 10.2 | 30.4 |

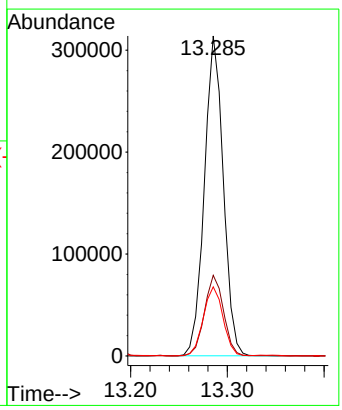


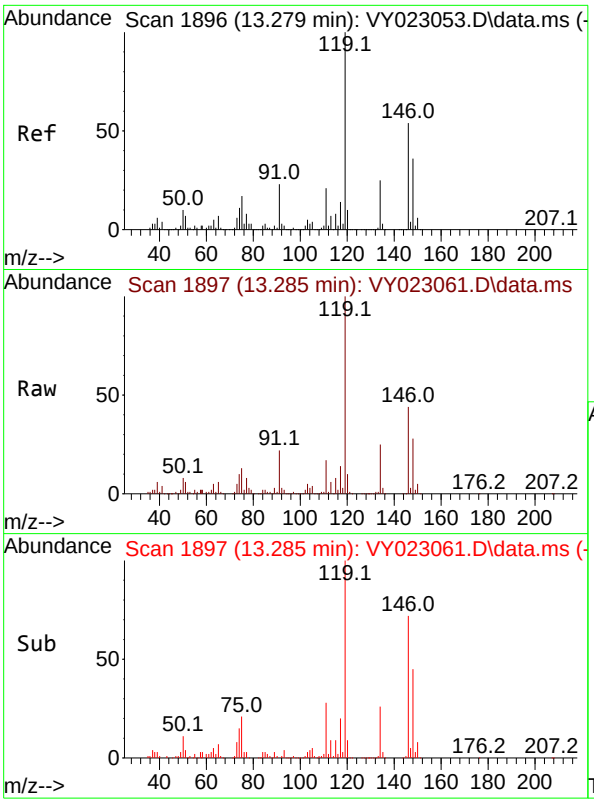




#86
p-Isopropyltoluene
Concen: 20.904 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:119 Resp: 426905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.5 | 13.2 | 39.6 |
| 91 | 22.3 | 11.3 | 33.8 |



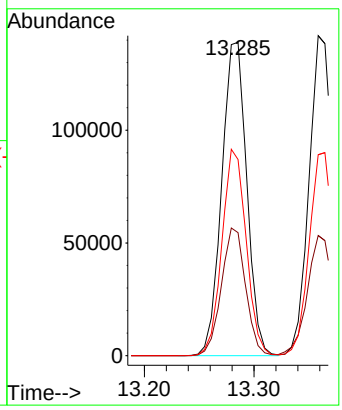


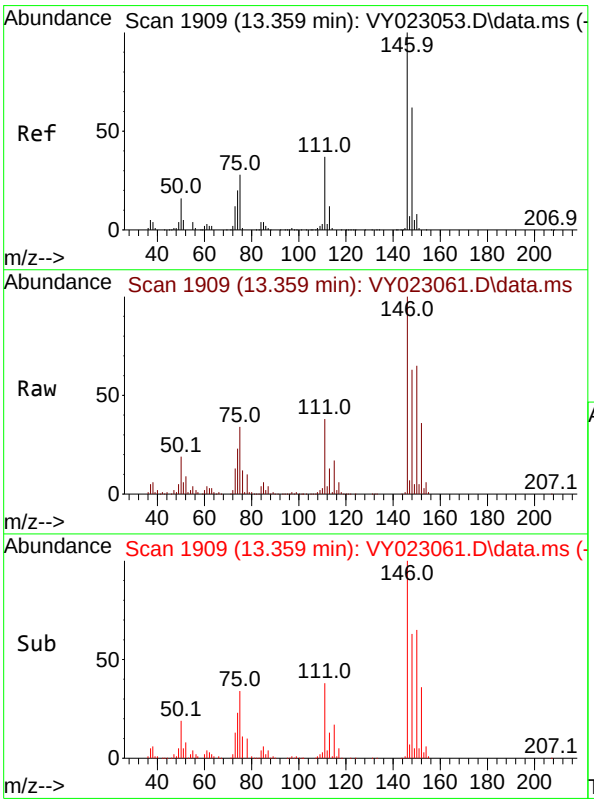

#87
1,3-Dichlorobenzene
Concen: 20.420 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion:146 Resp: 220435

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.5 | 19.6 | 58.7 |
| 148 | 63.9 | 32.5 | 97.5 |

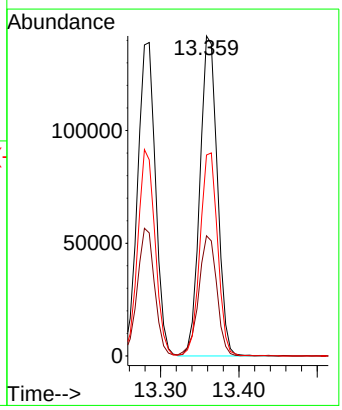


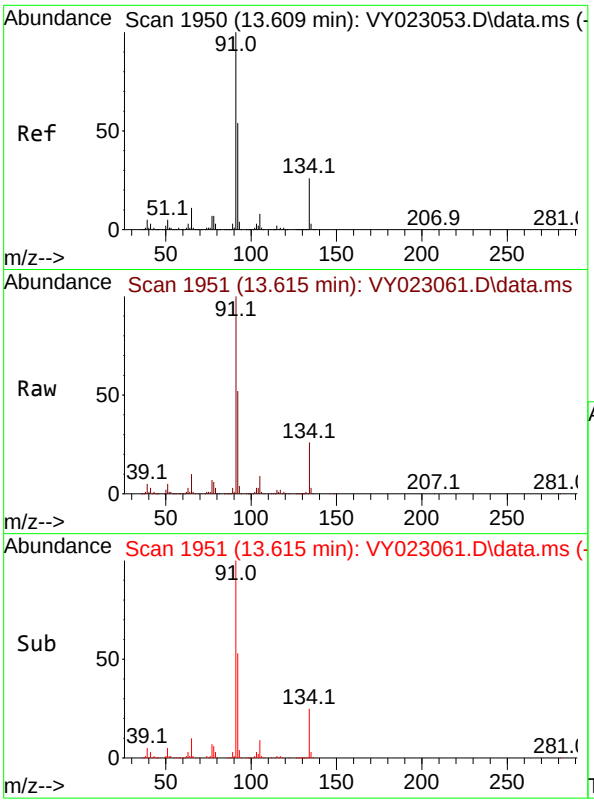




#88
1,4-Dichlorobenzene
Concen: 20.520 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:146 Resp: 219736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.9 | 19.1 | 57.1 |
| 148 | 63.8 | 31.6 | 94.7 |



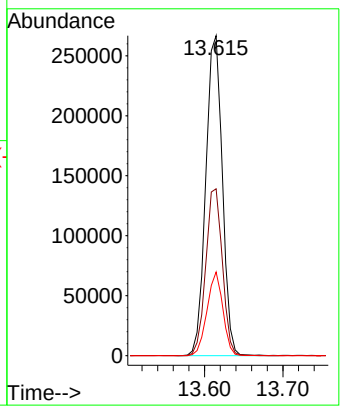


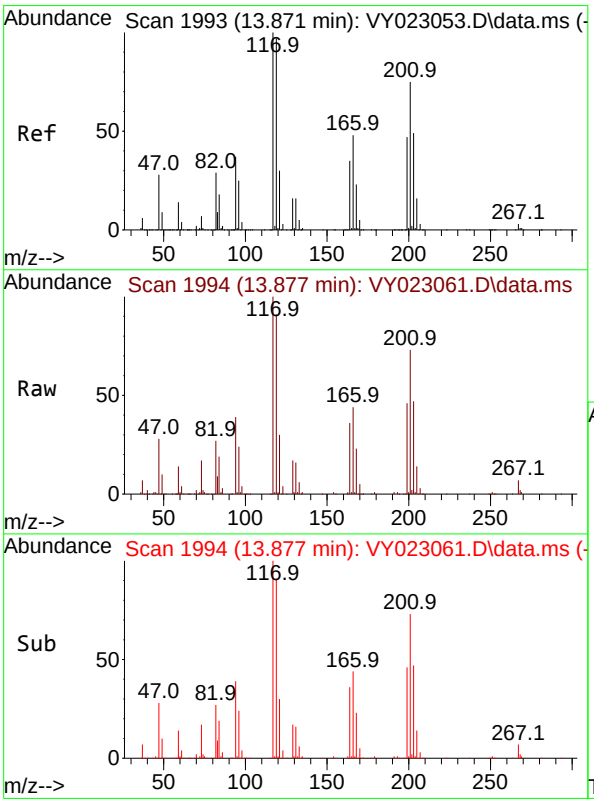

#89
n-Butylbenzene
Concen: 20.823 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion: 91 Resp: 390572

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.4 | 26.9 | 80.7 |
| 134 | 25.0 | 13.2 | 39.5 |

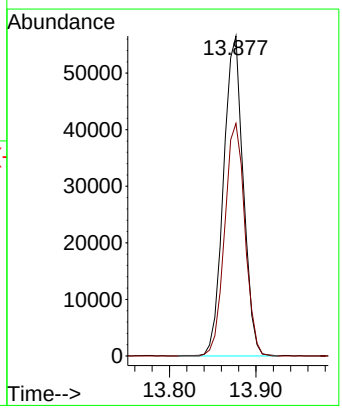


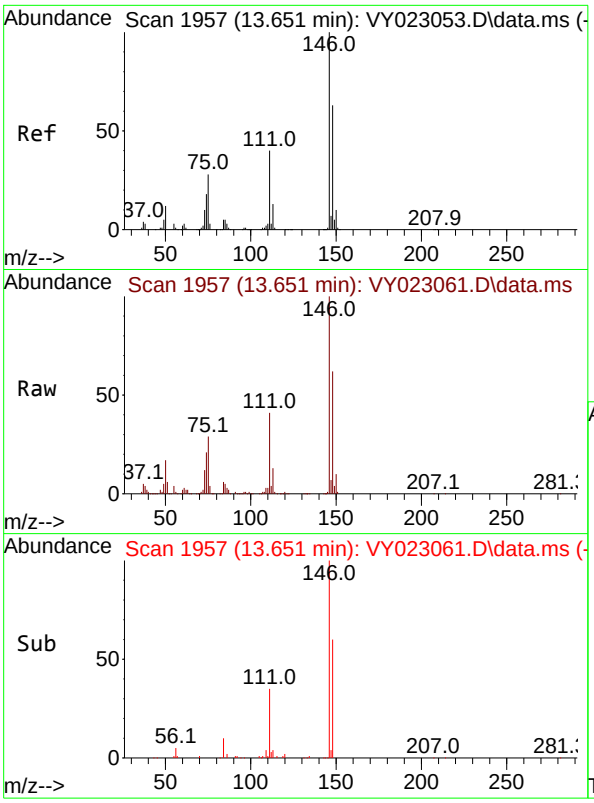




#90
Hexachloroethane
Concen: 21.398 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:117 Resp: 89456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 74.6 | 38.4 | 115.1 |



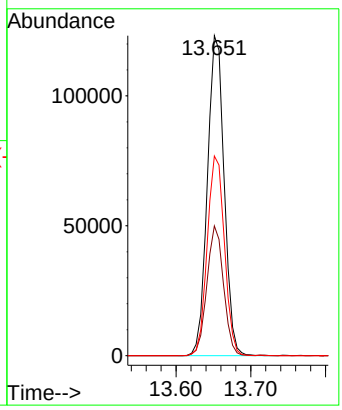


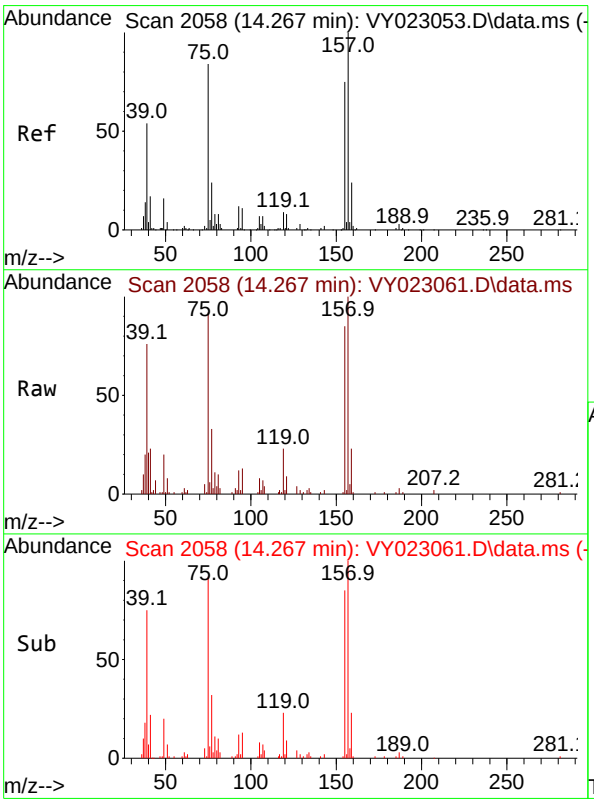

#91
1,2-Dichlorobenzene
Concen: 20.262 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion:146 Resp: 191827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.3 | 20.3 | 60.8 |
| 148 | 64.0 | 32.2 | 96.6 |

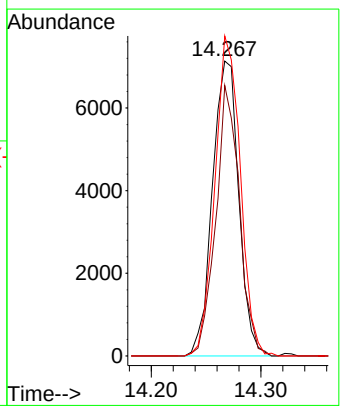


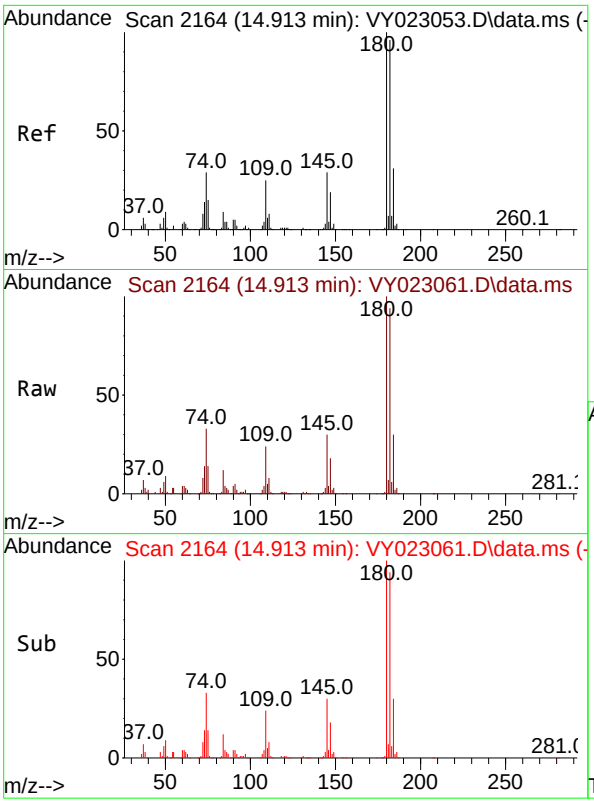




#92
1,2-Dibromo-3-Chloropropane
Concen: 19.477 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion: 75 Resp: 11881

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 82.7 | 43.9 | 131.6 |
| 157 | 105.1 | 57.2 | 171.6 |



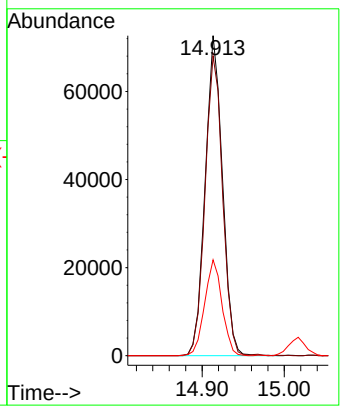


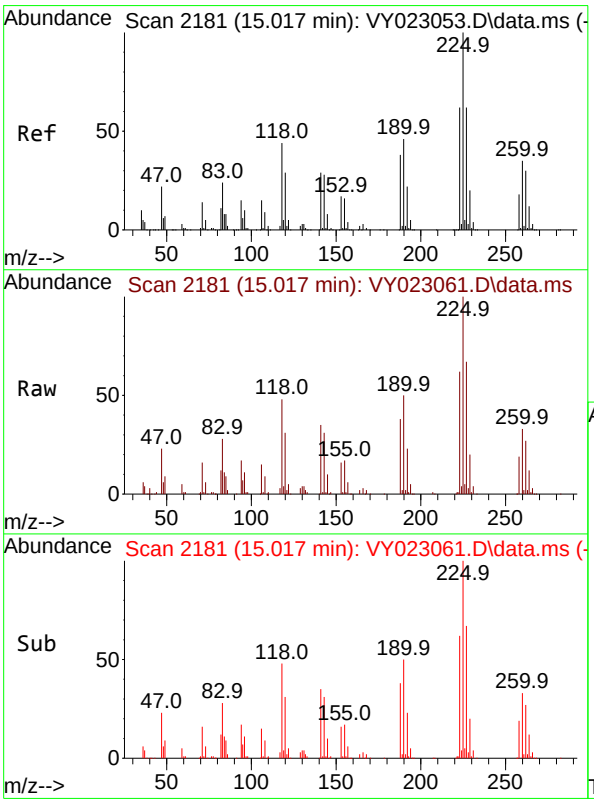

#93
1,2,4-Trichlorobenzene
Concen: 18.915 ug/l
RT: 14.913 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion:180 Resp: 105900

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.1 | 46.8 | 140.4 |
| 145 | 30.1 | 14.4 | 43.4 |

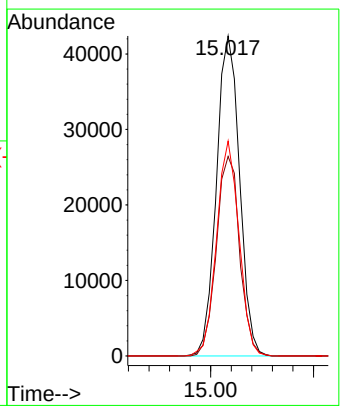


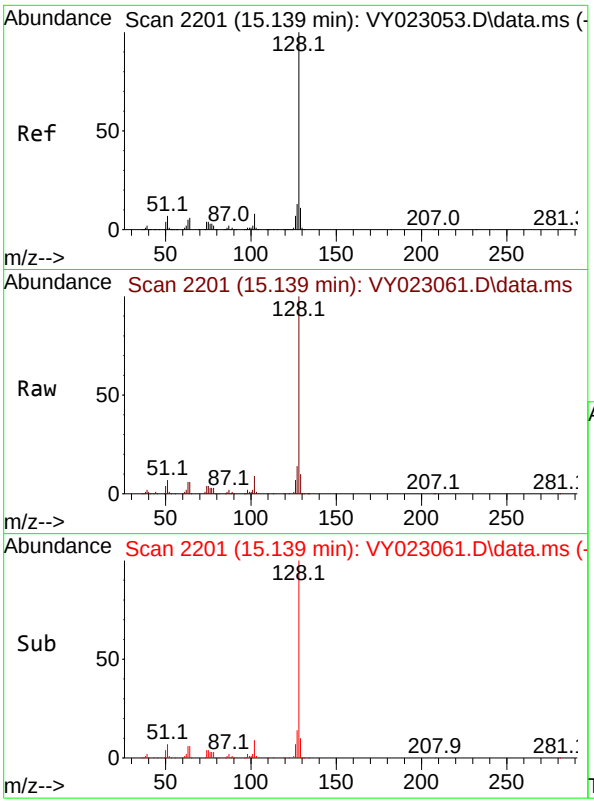




#94
Hexachlorobutadiene
Concen: 20.089 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:225 Resp: 66091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.7 | 31.3 | 93.8 |
| 227 | 65.3 | 31.5 | 94.5 |



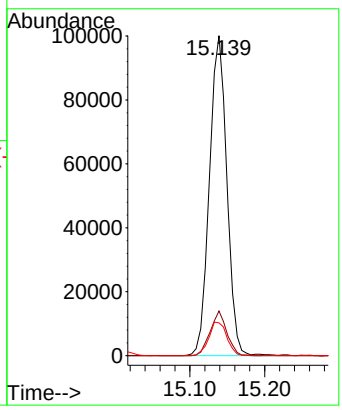


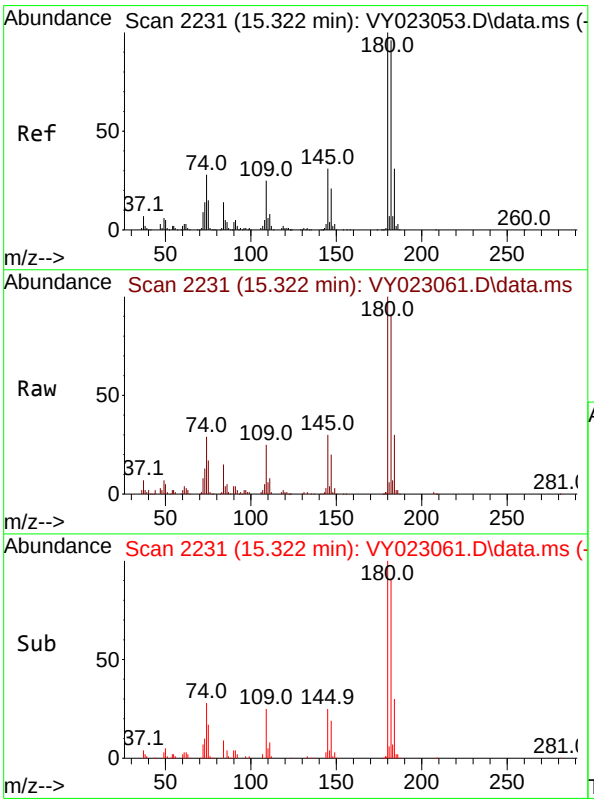

#95
Naphthalene
Concen: 16.980 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0813SBS01

Tgt Ion:128 Resp: 162104

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.3 | 10.4 | 15.6 |
| 129 | 11.0 | 9.0 | 13.4 |

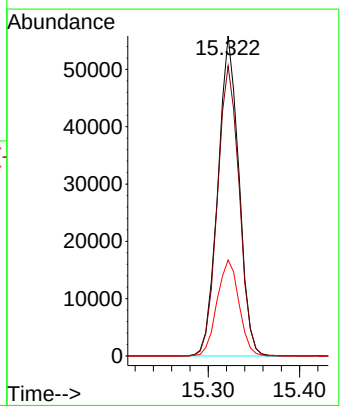



#96
1,2,3-Trichlorobenzene
Concen: 18.463 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023061.D
Acq: 13 Aug 2025 11:09

Tgt Ion:180 Resp: 89070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.8 | 47.9 | 143.7 |
| 145 | 31.4 | 15.9 | 47.7 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023069.D
Acq On : 13 Aug 2025 14:55
Operator : SY/MD
Sample : Q2819-07
Misc : 6.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

Quant Time: Aug 14 01:24:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

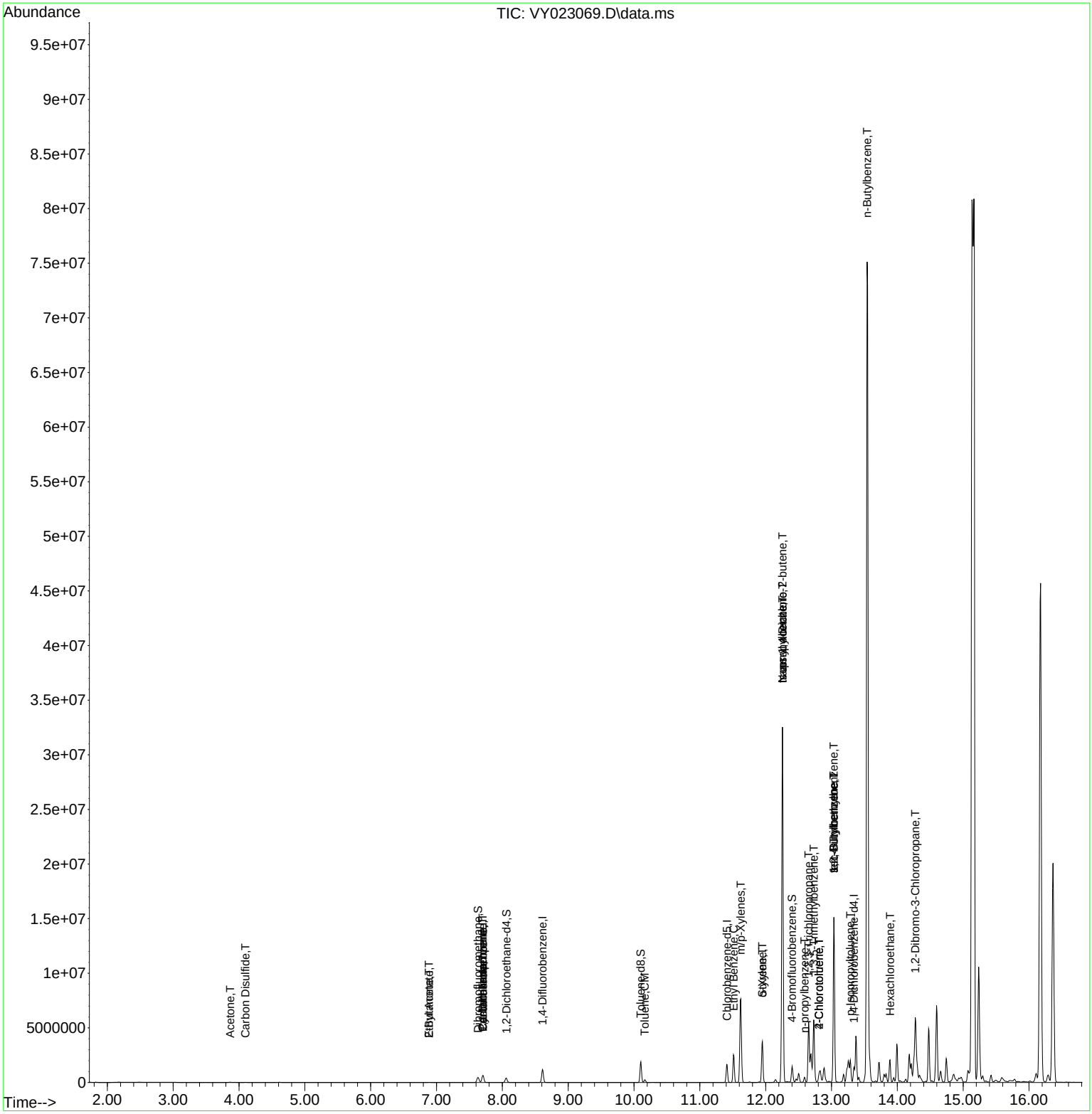
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 499481 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 8.609 | 114 | 998493 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 877177 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 339290 | 50.000 | ug/l | # | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 316941 | 66.579 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 133.160% | | | | |
| 35) Dibromofluoromethane | 7.628 | 113 | 329759 | 55.193 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 110.380% | | | | |
| 50) Toluene-d8 | 10.103 | 98 | 1198822 | 51.362 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 102.720% | | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 378383 | 50.409 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 100.820% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 16) Acetone | 3.866 | 43 | 50603 | 49.067 | ug/l | | 97 |
| 17) Carbon Disulfide | 4.098 | 76 | 24835 | 1.582 | ug/l | | 97 |
| 25) 2-Butanone | 6.884 | 43 | 17580 | 12.534 | ug/l | | 95 |
| 31) Cyclohexane | 7.701 | 56 | 11278 | 1.272 | ug/l | # | 8 |
| 36) 1,1-Dichloropropene | 7.701 | 75 | 39792 | 4.481 | ug/l | # | 49 |
| 37) Ethyl Acetate | 6.884 | 43 | 17580 | 4.713 | ug/l | # | 68 |
| 38) Carbon Tetrachloride | 7.701 | 117 | 48784 | 5.058 | ug/l | # | 17 |
| 52) Toluene | 10.164 | 92 | 104466 | 6.010 | ug/l | | 100 |
| 67) Ethyl Benzene | 11.511 | 91 | 1711204 | 52.554 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.621 | 106 | 2334647 | 183.584 | ug/l | | 99 |
| 69) o-Xylene | 11.950 | 106 | 979527 | 82.239 | ug/l | | 98 |
| 70) Styrene | 11.950 | 104 | 54628 | 2.805 | ug/l | # | 1 |
| 73) Isopropylbenzene | 12.255 | 105 | 2066252 | 86.285 | ug/l | | 76 |
| 74) N-amyl acetate | 12.255 | 43 | 523882 | 103.160 | ug/l | # | 11 |
| 76) 1,2,3-Trichloropropane | 12.651 | 75 | 28026 | 8.559 | ug/l | # | 100 |
| 78) n-propylbenzene | 12.590 | 91 | 304969 | 10.697 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.810 | 91 | 64981 | 3.978 | ug/l | | 77 |
| 80) 1,3,5-Trimethylbenzene | 12.731 | 105 | 2717714 | 140.425 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.255 | 75 | 44097 | 32.599 | ug/l | # | 1 |
| 82) 4-Chlorotoluene | 12.810 | 91 | 63624 | 3.755 | ug/l | | 78 |
| 83) tert-Butylbenzene | 13.035 | 119 | 985298 | 56.369 | ug/l | # | 67 |
| 84) 1,2,4-Trimethylbenzene | 13.035 | 105 | 7563336 | 392.581 | ug/l | | 96 |
| 85) sec-Butylbenzene | 13.035 | 105 | 7563336 | 294.557 | ug/l | # | 56 |
| 86) p-Isopropyltoluene | 13.285 | 119 | 1058617 | 49.669 | ug/l | # | 78 |
| 89) n-Butylbenzene | 13.541 | 91 | 8872019 | 453.226 | ug/l | # | 43 |
| 90) Hexachloroethane | 13.889 | 117 | 103728 | 23.774 | ug/l | # | 11 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 136619 | 214.601 | ug/l | # | 1 |

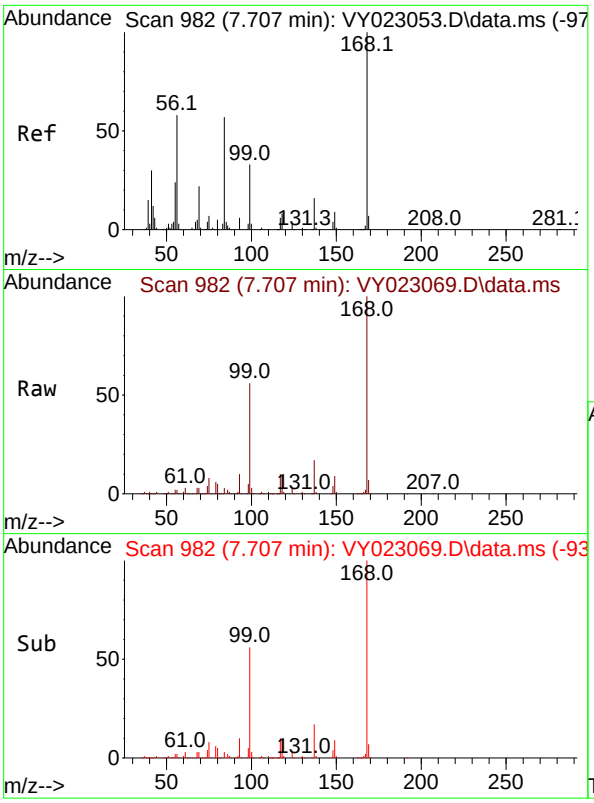
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023069.D
Acq On : 13 Aug 2025 14:55
Operator : SY/MD
Sample : Q2819-07
Misc : 6.32g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

Quant Time: Aug 14 01:24:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



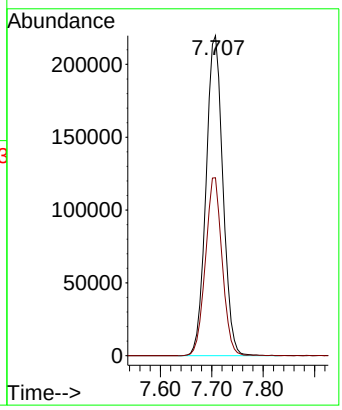


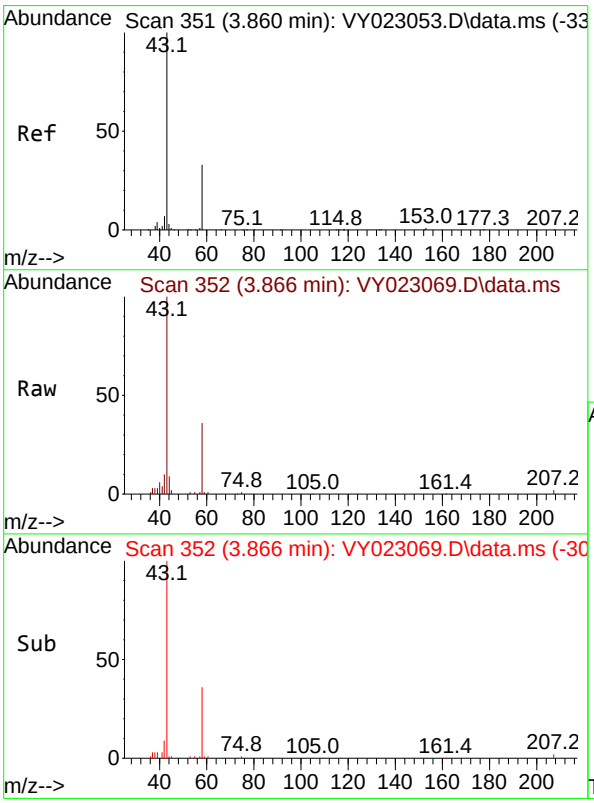

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

Tgt Ion:168 Resp: 499481

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 55.6 | 42.8 | 64.2 |

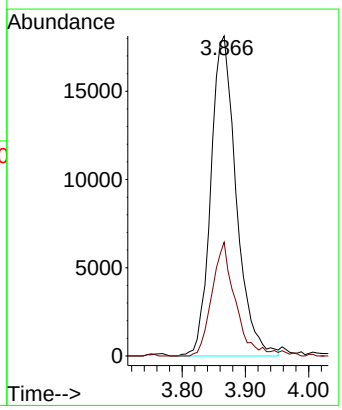


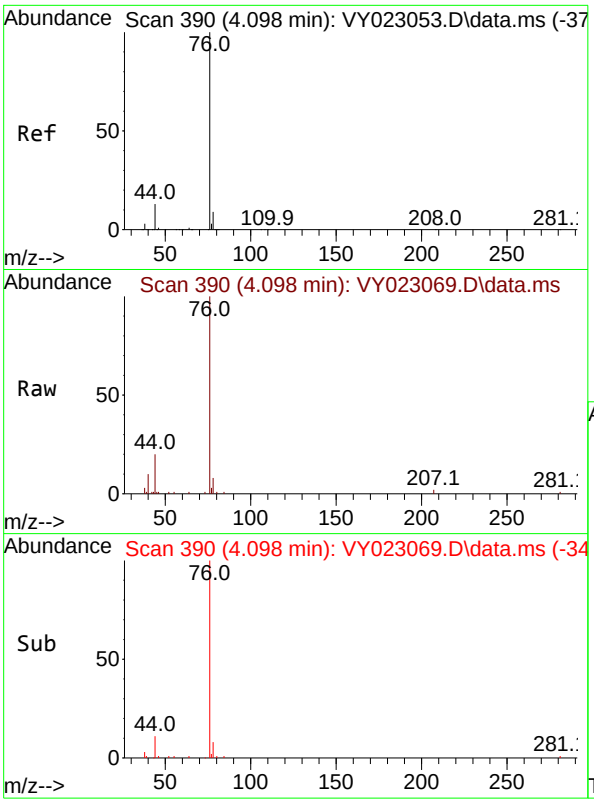




#16
Acetone
Concen: 49.067 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 43 Resp: 50603

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 35.5 | 27.1 | 40.7 |



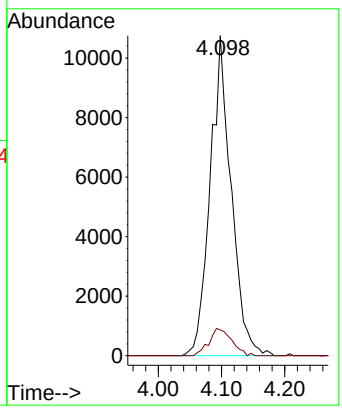


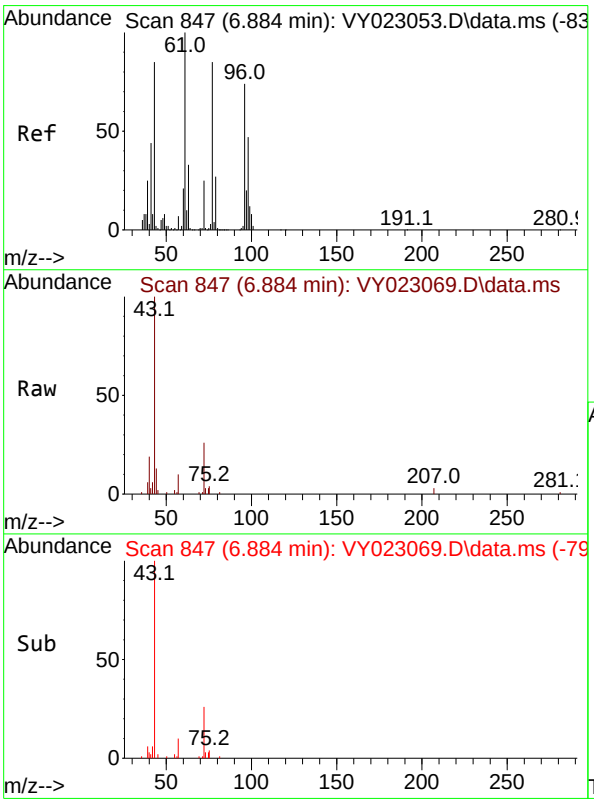

#17
Carbon Disulfide
Concen: 1.582 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

Tgt Ion: 76 Resp: 24835

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.1 | 7.4 | 11.2 |

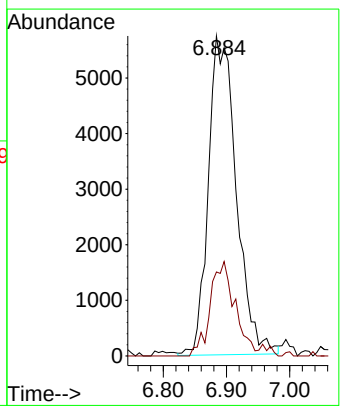


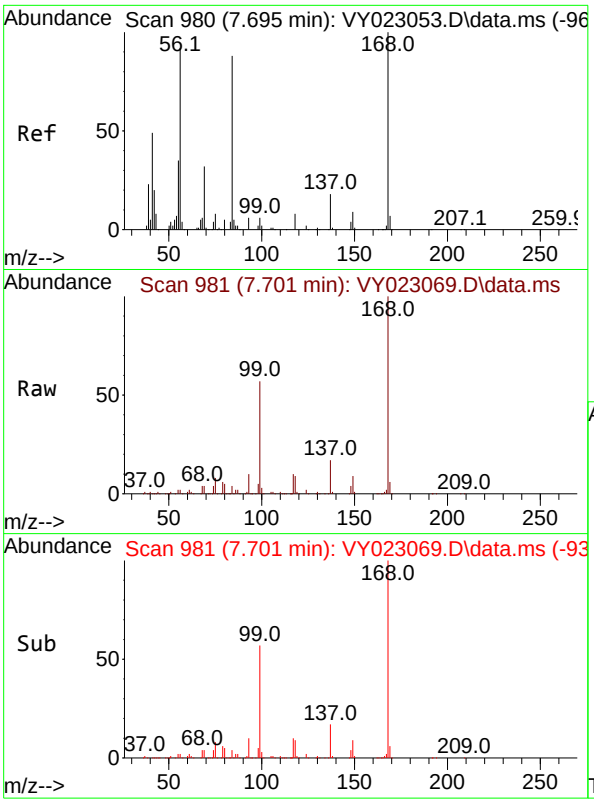




#25
2-Butanone
Concen: 12.534 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 43 Resp: 17580

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 26.5 | 23.5 | 35.3 |



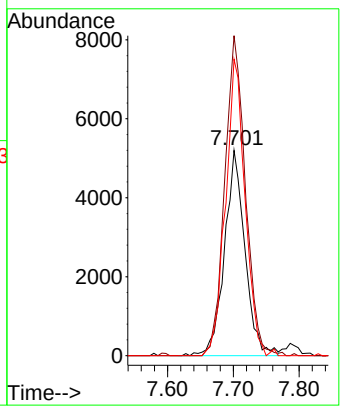


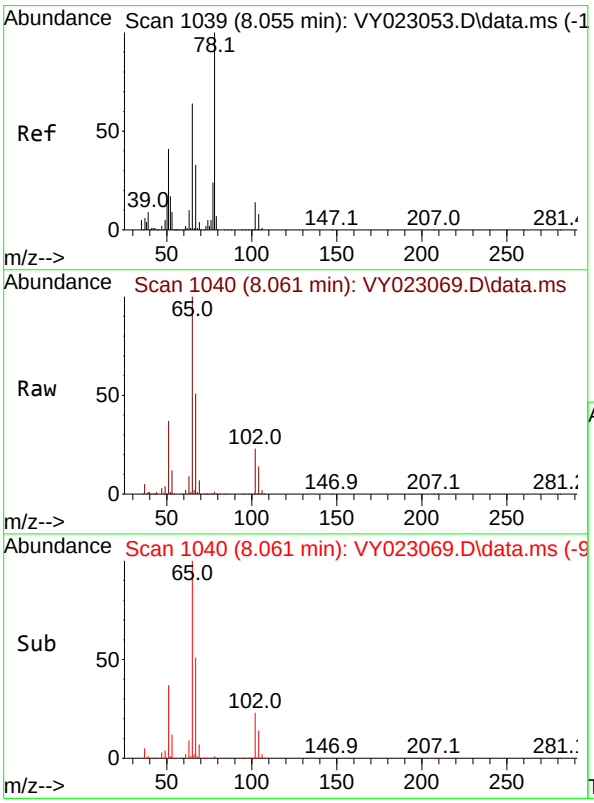

#31
Cyclohexane
Concen: 1.272 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

Tgt Ion: 56 Resp: 11278

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 155.9 | 28.2 | 42.2# |
| 84 | 144.4 | 76.6 | 114.8# |

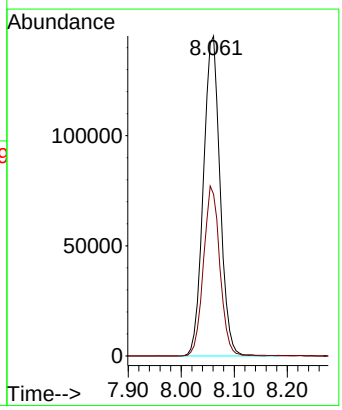


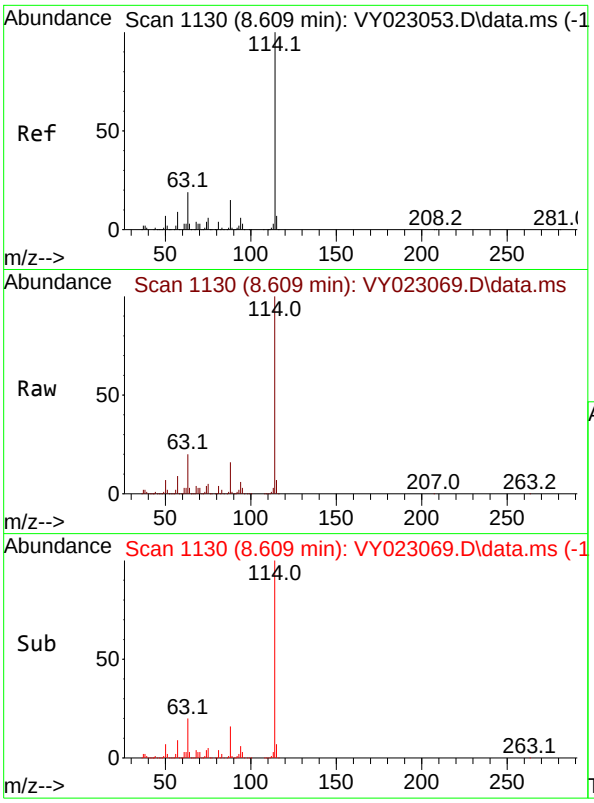




#33
1,2-Dichloroethane-d4
Concen: 66.579 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 65 Resp: 316941

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.1 | 0.0 | 106.8 |



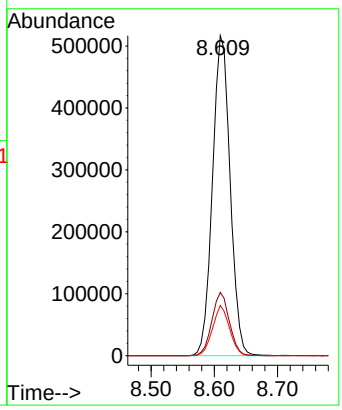


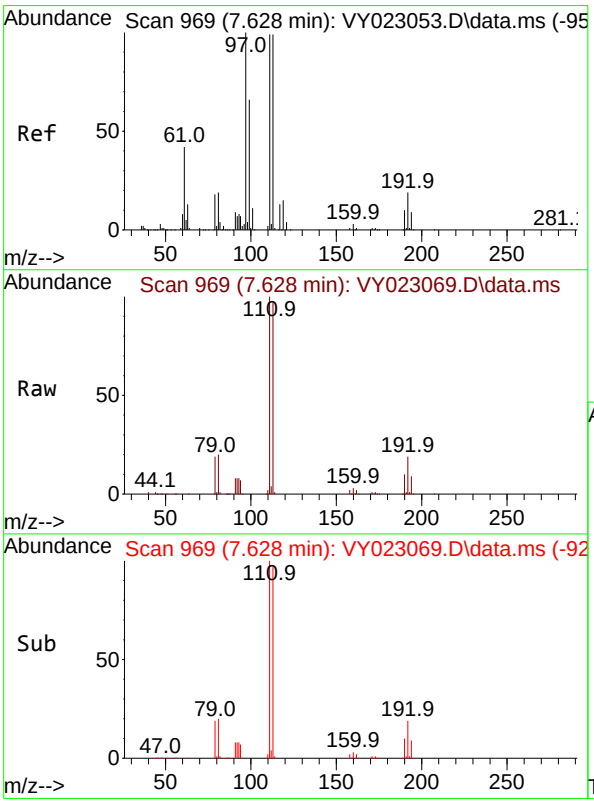

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

Tgt Ion:114 Resp: 998493

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.8 | 0.0 | 38.4 |
| 88 | 15.7 | 0.0 | 30.0 |

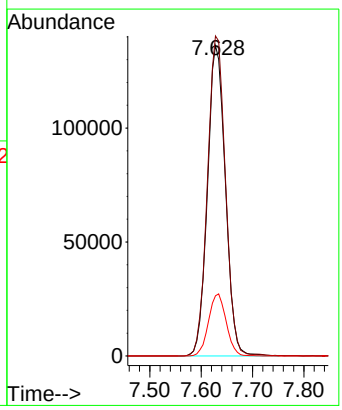


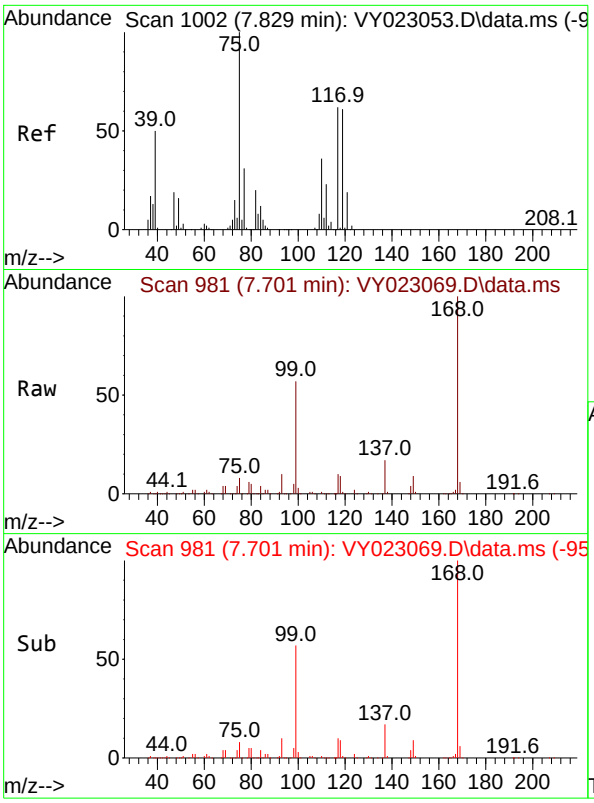




#35
Dibromofluoromethane
Concen: 55.193 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion:113 Resp: 329759

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.2 | 81.1 | 121.7 |
| 192 | 19.7 | 16.2 | 24.4 |



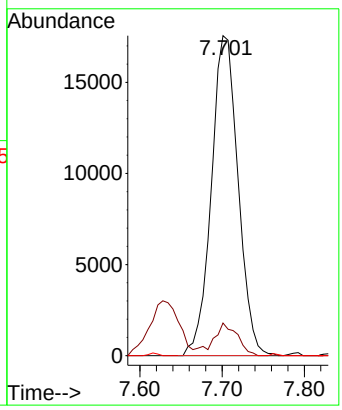


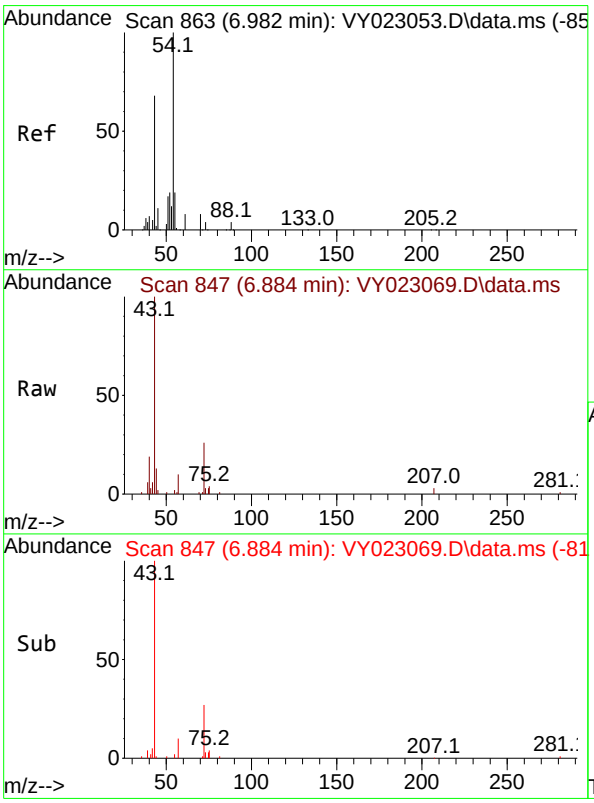

#36
1,1-Dichloropropene
Concen: 4.481 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.128 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

Tgt Ion: 75 Resp: 39792

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 8.9 | 18.1 | 54.4# |
| 77 | 0.0 | 24.6 | 37.0# |

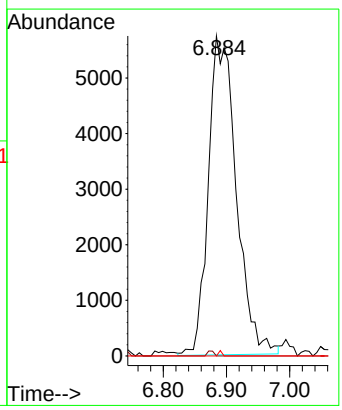


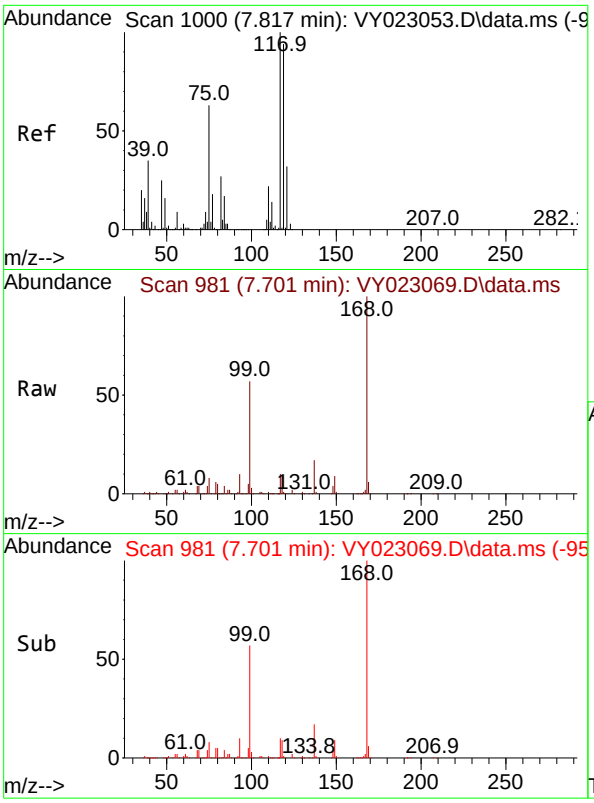




#37
Ethyl Acetate
Concen: 4.713 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.098 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 43 Resp: 17580

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 0.4 | 11.9 | 17.9# |
| 70 | 0.2 | 8.8 | 13.2# |



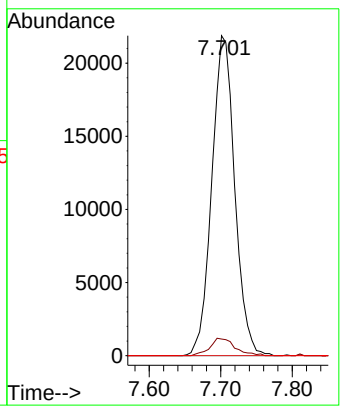


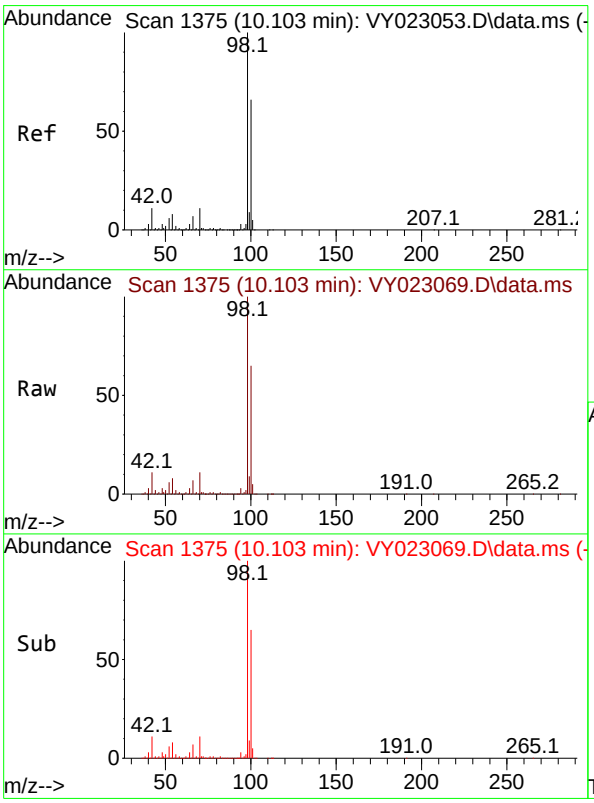

#38
Carbon Tetrachloride
Concen: 5.058 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.116 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

Tgt Ion:117 Resp: 48784

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 5.2 | 75.6 | 113.4# |
| 121 | 0.0 | 25.8 | 38.8# |

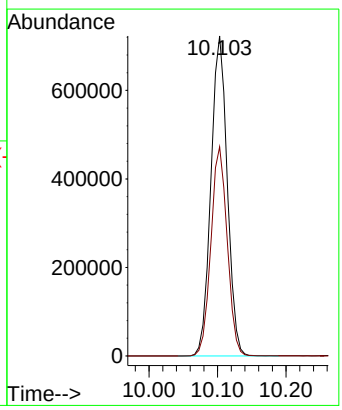


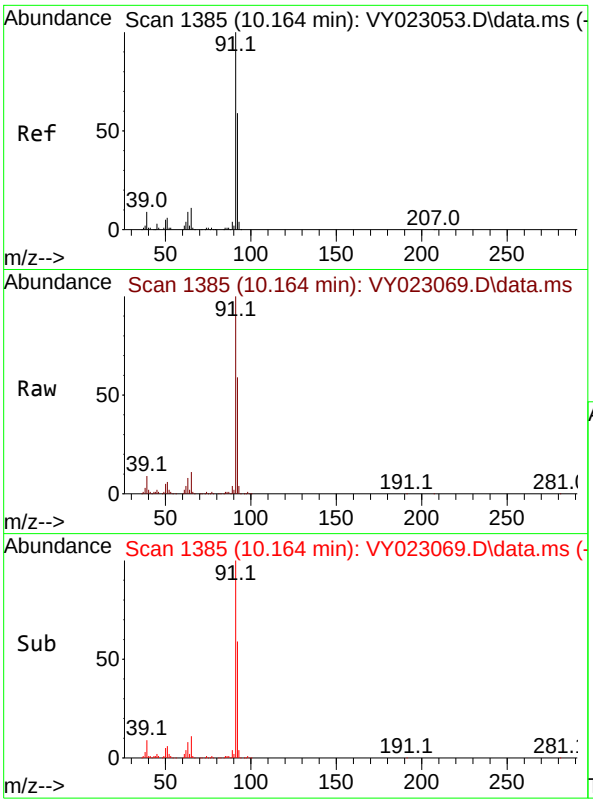




#50
Toluene-d8
Concen: 51.362 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 98 Resp: 1198822

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.0 | 52.3 | 78.5 |



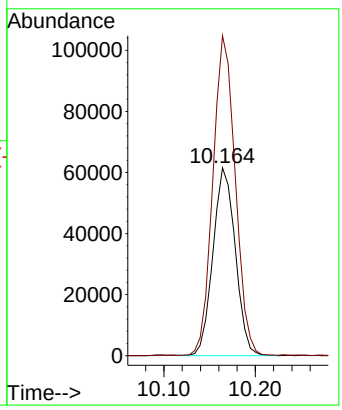


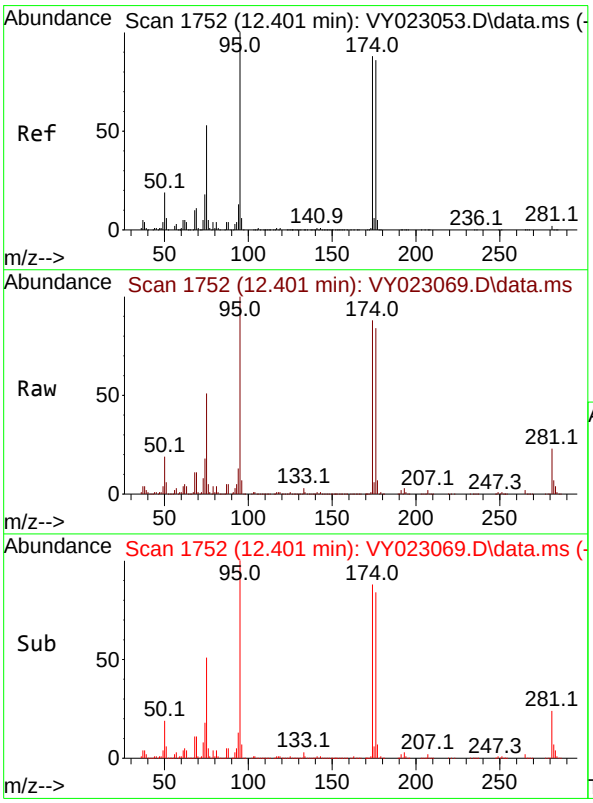

#52
Toluene
Concen: 6.010 ug/l
RT: 10.164 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

Tgt Ion: 92 Resp: 104466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 170.6 | 136.4 | 204.6 |

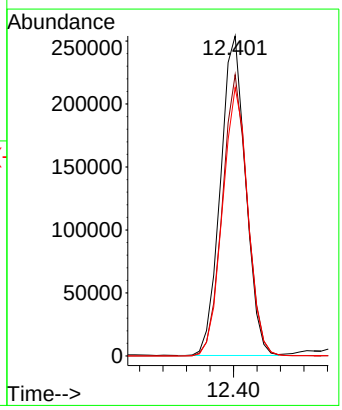


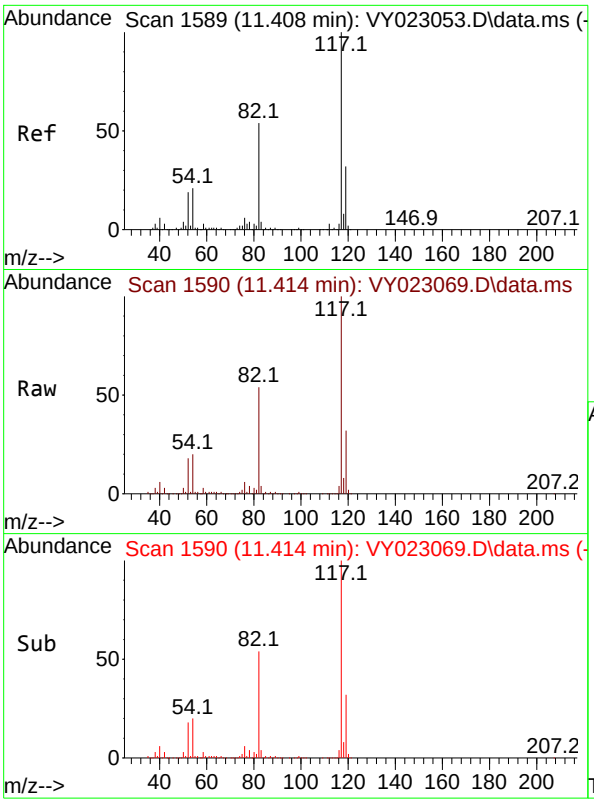




#62
4-Bromofluorobenzene
Concen: 50.409 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 95 Resp: 378383

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 87.1 | 0.0 | 171.6 |
| 176 | 84.7 | 0.0 | 167.6 |



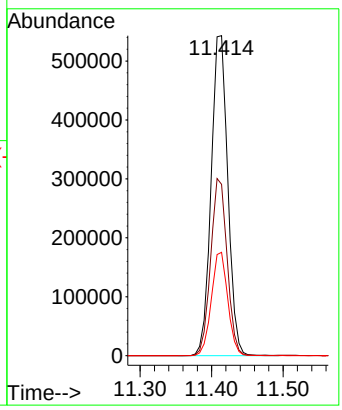


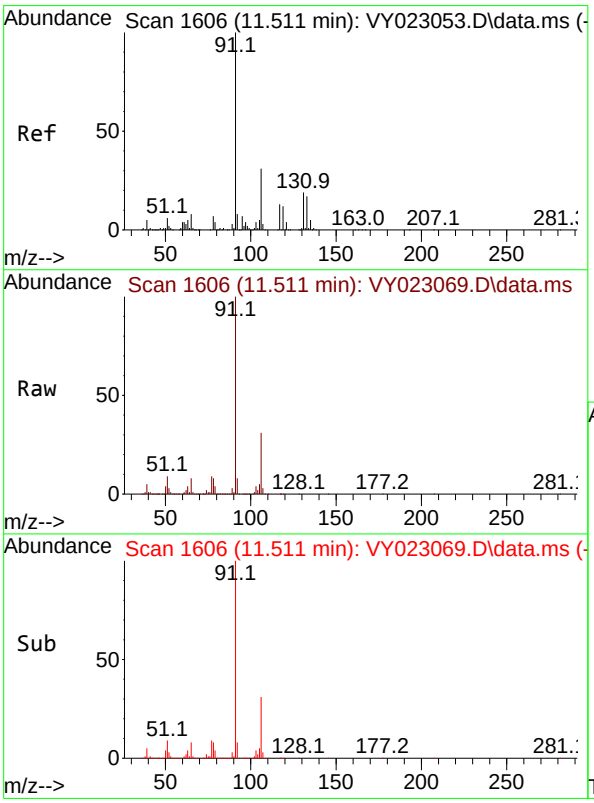

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

Tgt Ion:117 Resp: 877177

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 53.5 | 43.4 | 65.0 |
| 119 | 32.3 | 25.6 | 38.4 |

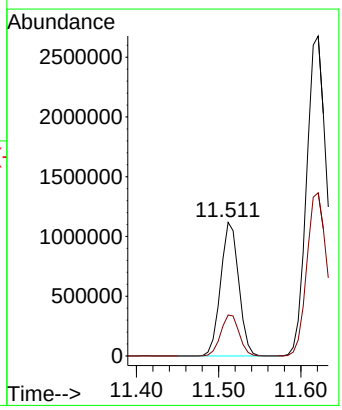


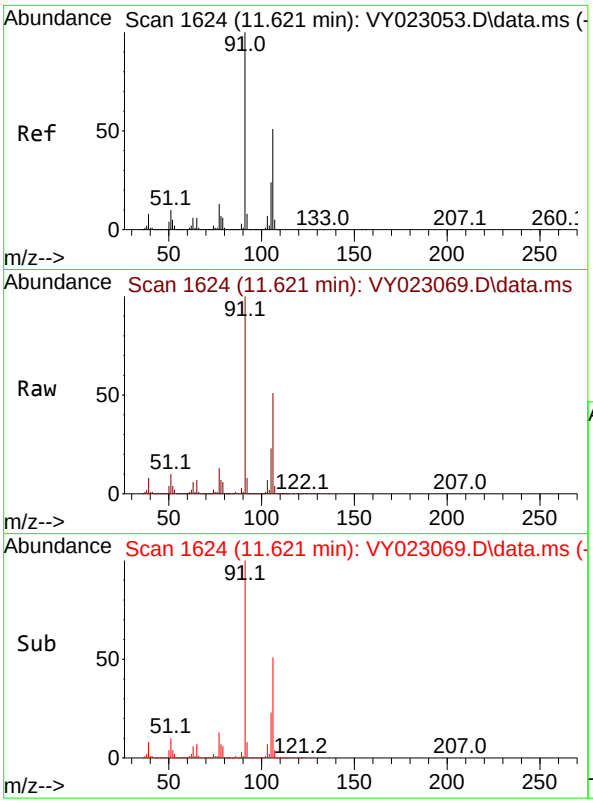




#67
Ethyl Benzene
Concen: 52.554 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 91 Resp: 1711204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.7 | 25.0 | 37.4 |



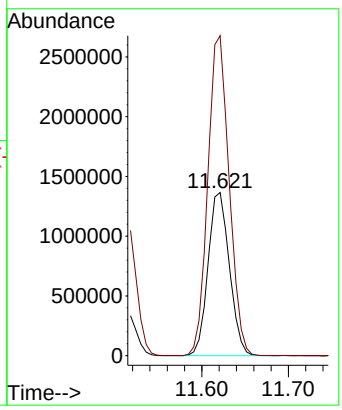


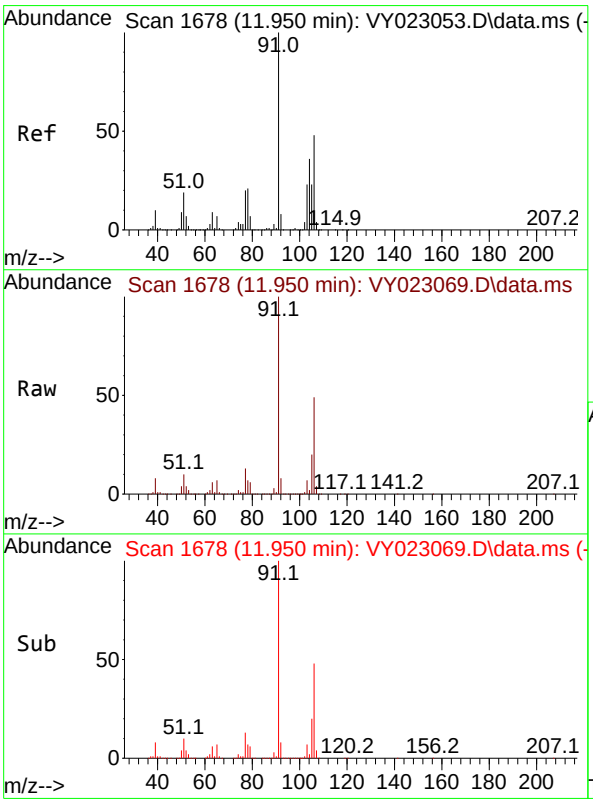

#68
m/p-Xylenes
Concen: 183.584 ug/l
RT: 11.621 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

Tgt Ion:106 Resp: 2334647

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 196.2 | 158.6 | 238.0 |

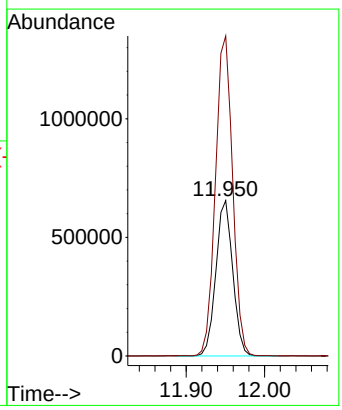


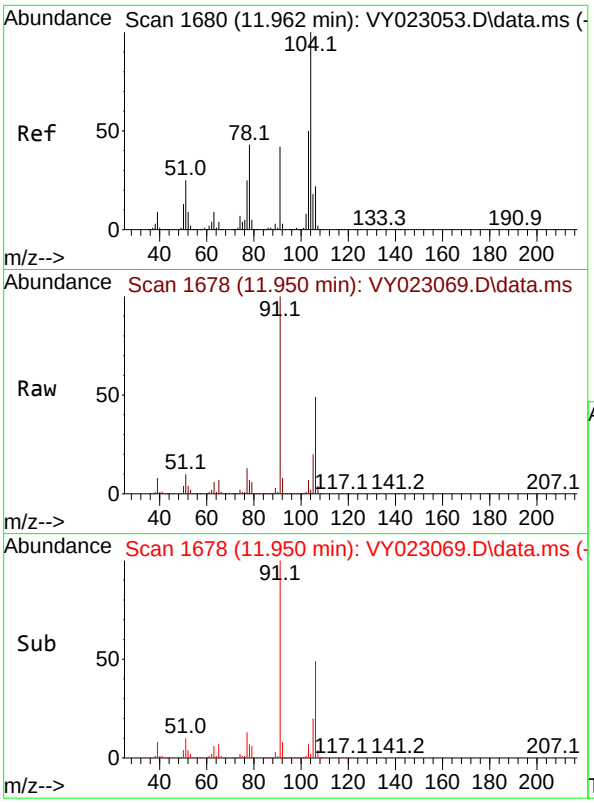




#69
o-Xylene
Concen: 82.239 ug/l
RT: 11.950 min Scan# 1678
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion:106 Resp: 979527

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 210.0 | 103.2 | 309.4 |



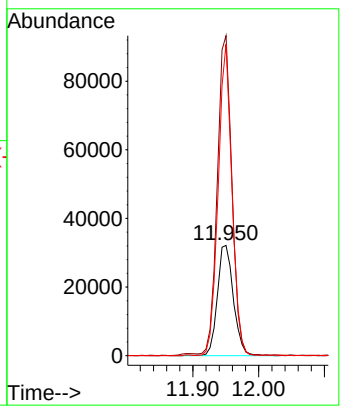


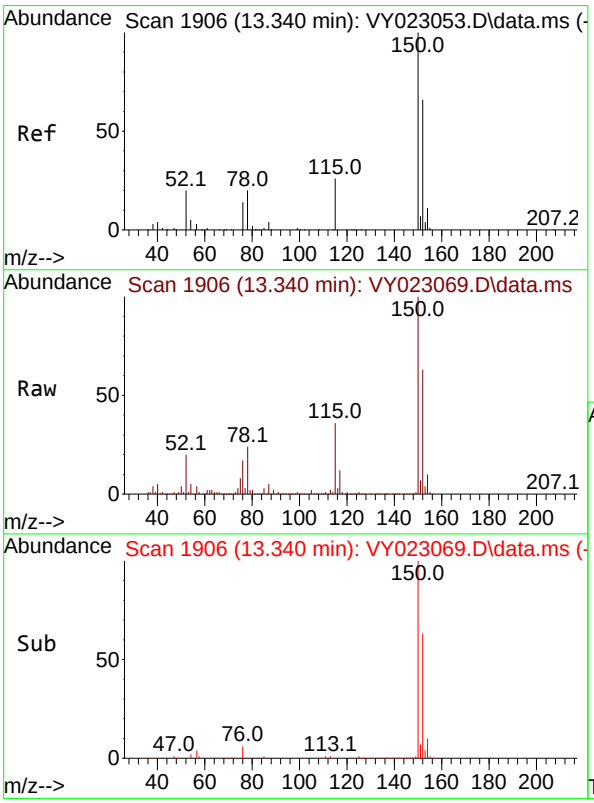

#70
Styrene
Concen: 2.805 ug/l
RT: 11.950 min Scan# 1
Delta R.T. -0.012 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

Tgt Ion:104 Resp: 54628

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 262.2 | 38.5 | 57.7# |
| 103 | 242.7 | 43.7 | 65.5# |

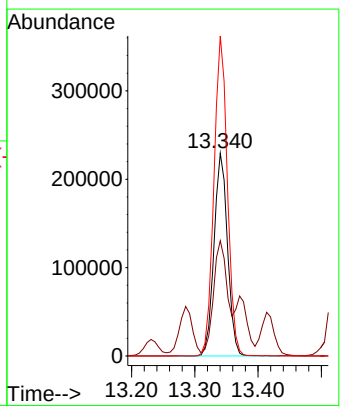


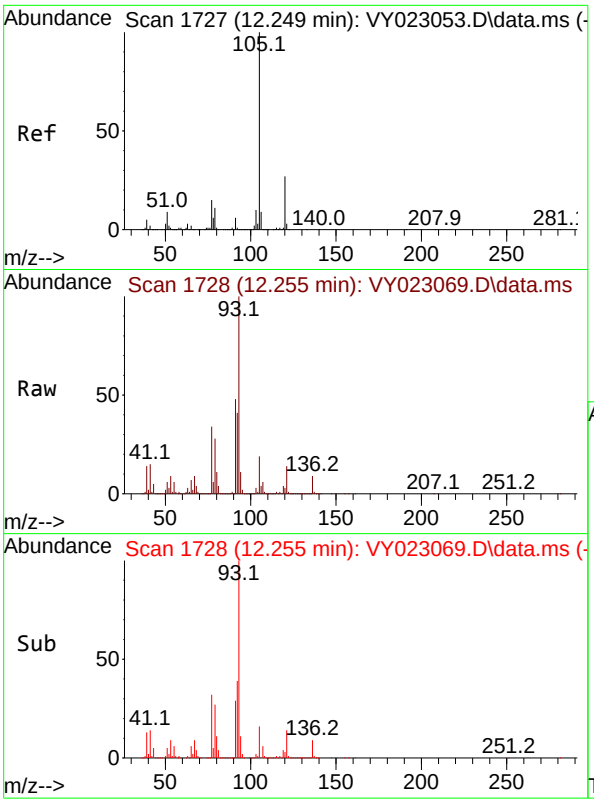




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion:152 Resp: 339290

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 0.0 | 28.2 | 84.6# |
| 150 | 157.3 | 0.0 | 348.0 |



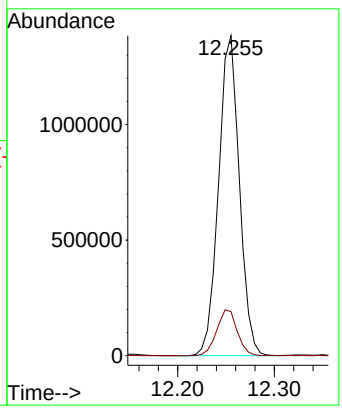


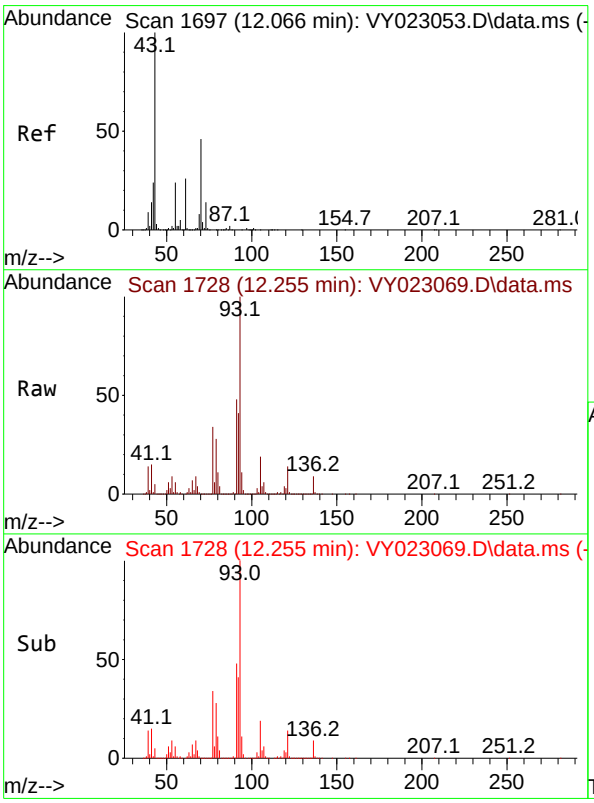

#73
Isopropylbenzene
Concen: 86.285 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

Tgt Ion:105 Resp: 2066252

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 14.2 | 13.4 | 40.2 |

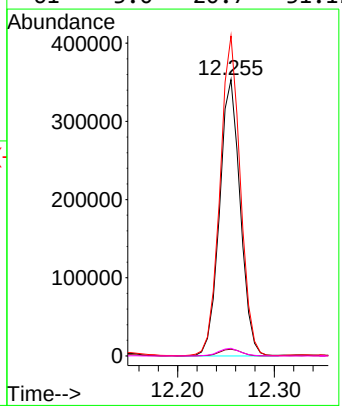


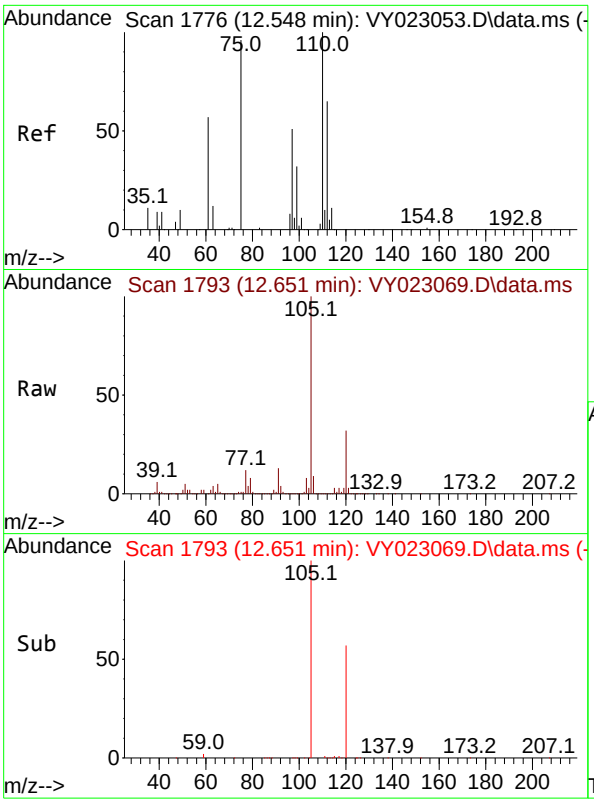




#74
N-amyl acetate
Concen: 103.160 ug/l
RT: 12.255 min Scan# 1728
Delta R.T. 0.189 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 43 Resp: 523882

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 2.6 | 37.5 | 56.3# |
| 55 | 113.6 | 20.7 | 31.1# |
| 61 | 3.0 | 20.7 | 31.1# |



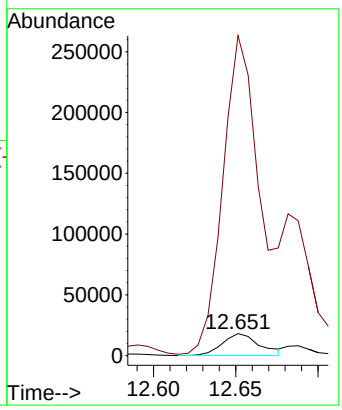


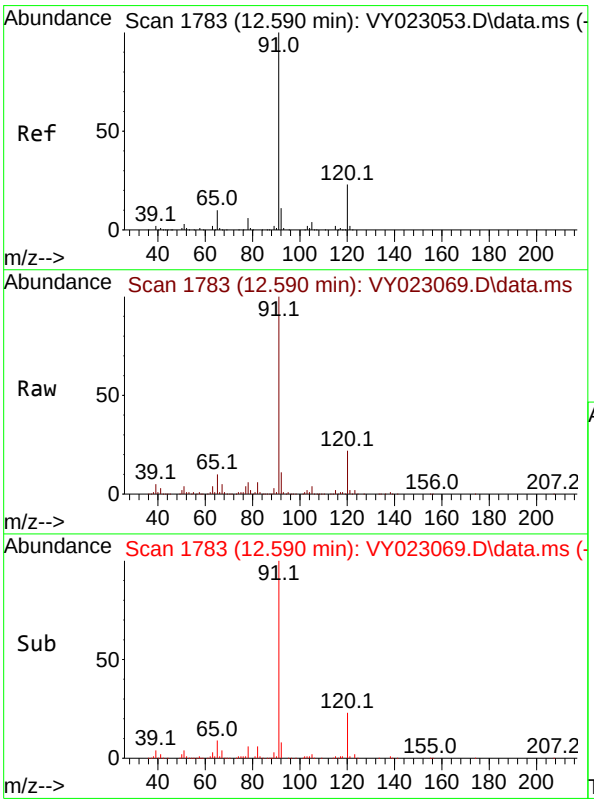

#76
1,2,3-Trichloropropane
Concen: 8.559 ug/l
RT: 12.651 min Scan# 1
Delta R.T. 0.104 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

Tgt Ion: 75 Resp: 28026

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 1481.7 | 0.0 | 0.0# |

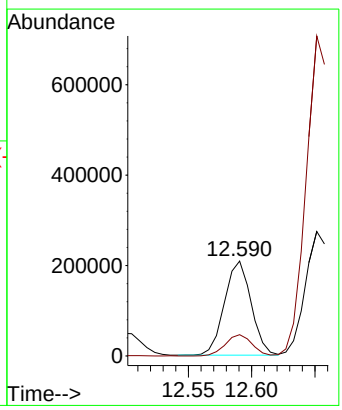


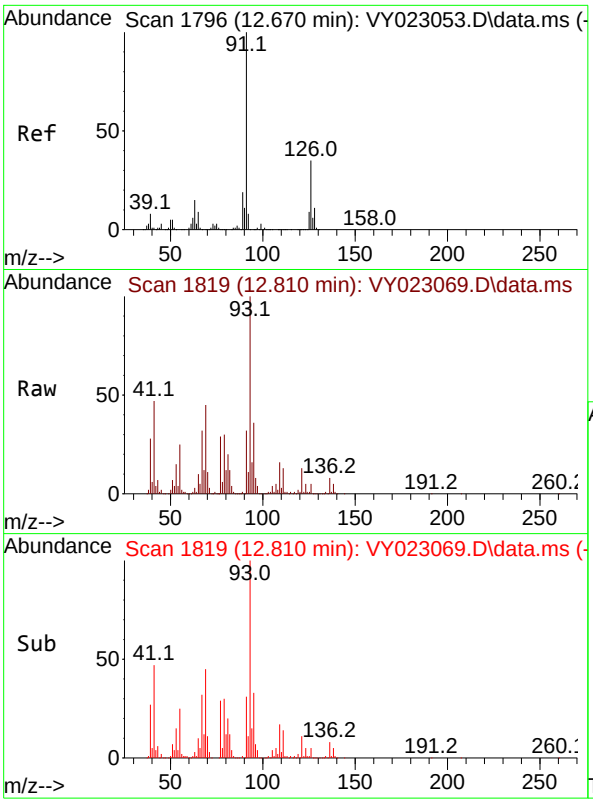




#78
n-propylbenzene
Concen: 10.697 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 91 Resp: 304969

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.8 | 11.5 | 34.5 |



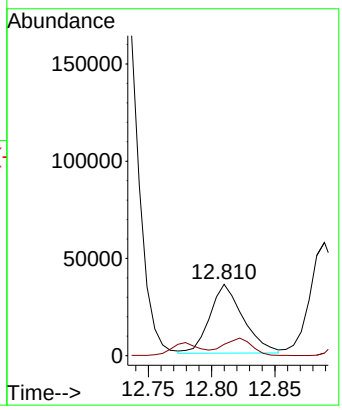


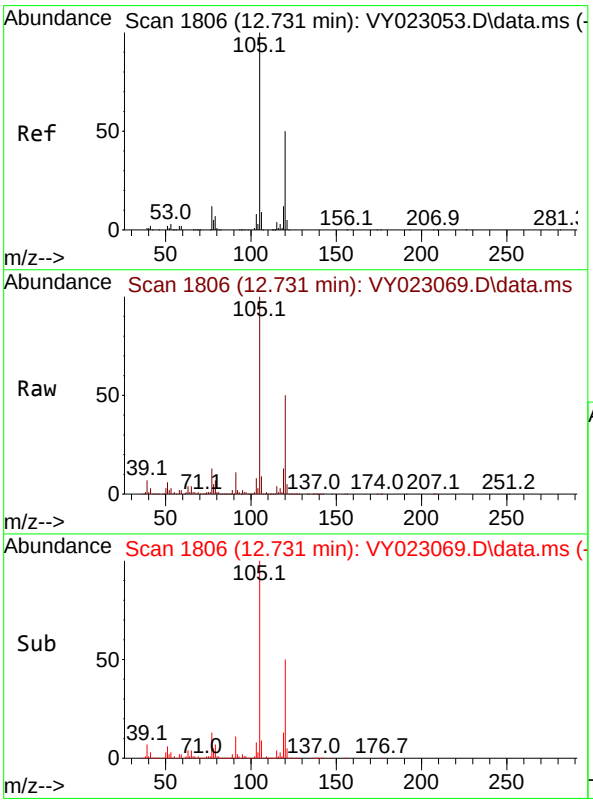

#79
2-Chlorotoluene
Concen: 3.978 ug/l
RT: 12.810 min Scan# 1
Delta R.T. 0.140 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

Tgt Ion: 91 Resp: 64981

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 21.3 | 17.4 | 52.3 |

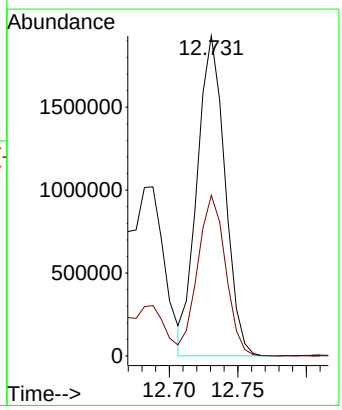


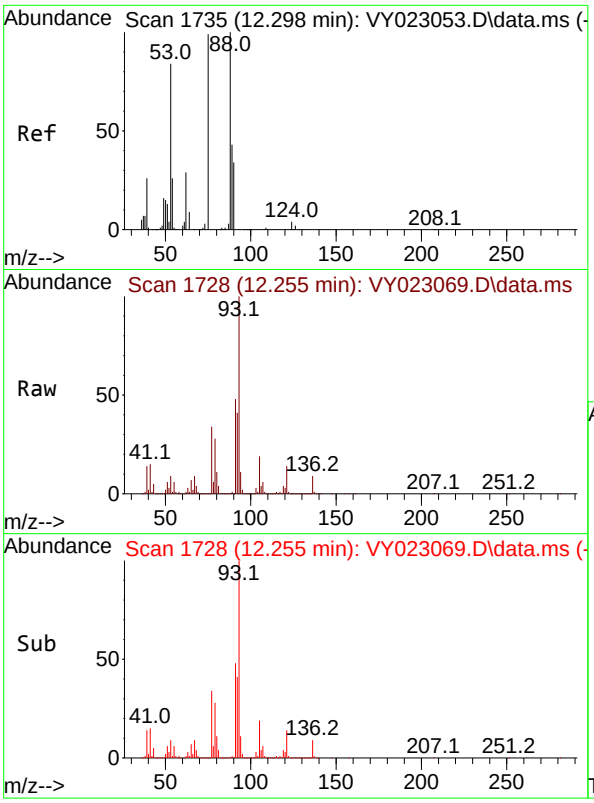




#80
1,3,5-Trimethylbenzene
Concen: 140.425 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion:105 Resp: 2717714

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 50.5 | 24.8 | 74.4 |



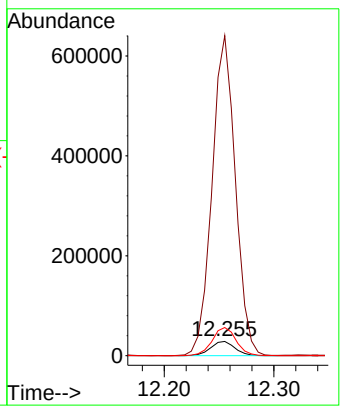


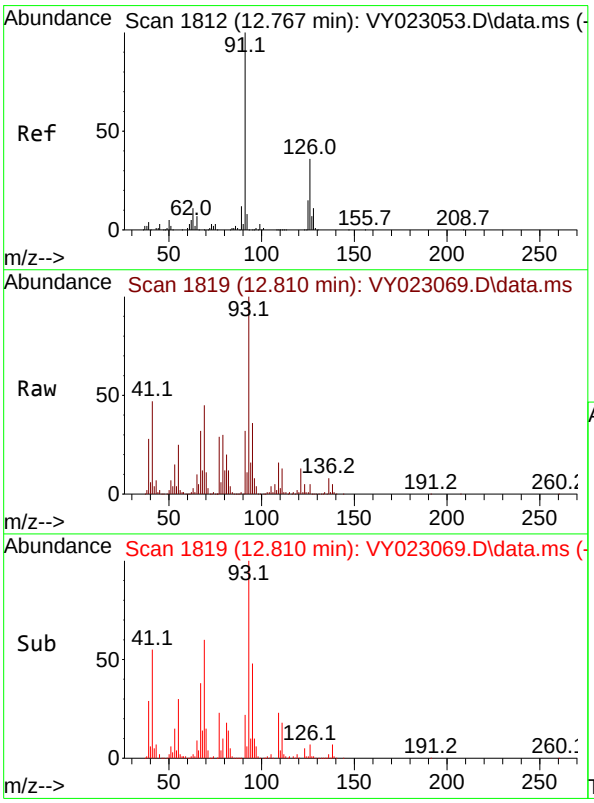

#81
trans-1,4-Dichloro-2-butene
Concen: 32.599 ug/l
RT: 12.255 min Scan# 1
Delta R.T. -0.043 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

Tgt Ion: 75 Resp: 44097

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 2150.2 | 70.8 | 106.2# |
| 89 | 195.1 | 38.1 | 57.1# |

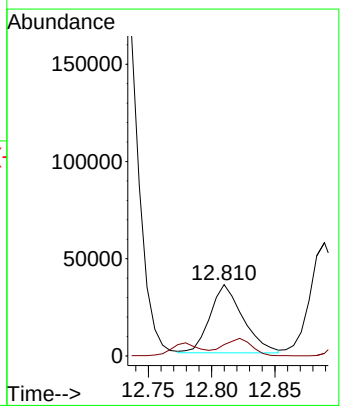


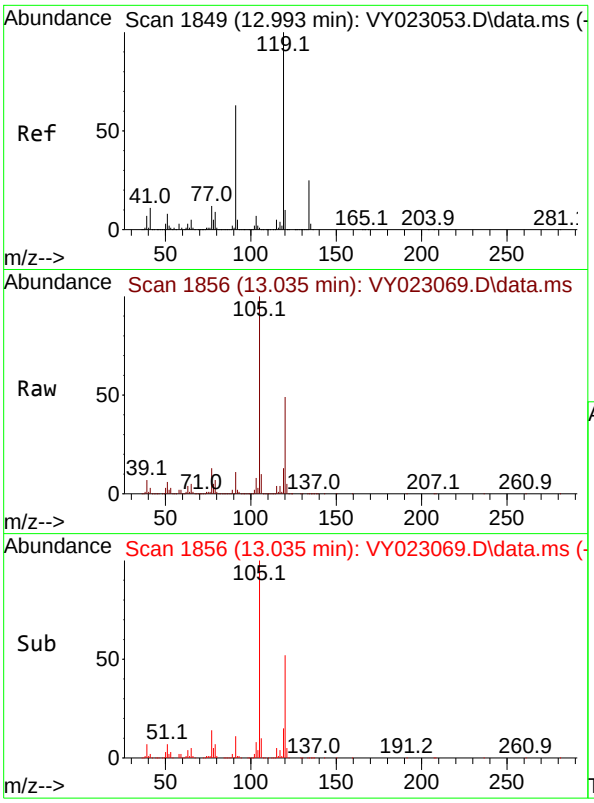




#82
4-Chlorotoluene
Concen: 3.755 ug/l
RT: 12.810 min Scan# 1819
Delta R.T. 0.043 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 91 Resp: 63624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 21.7 | 17.3 | 52.0 |



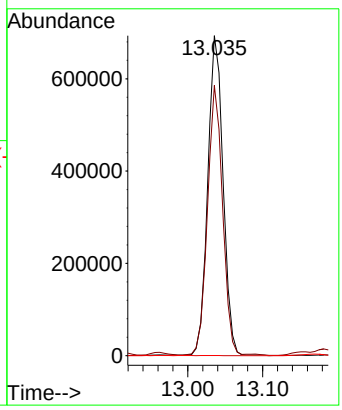


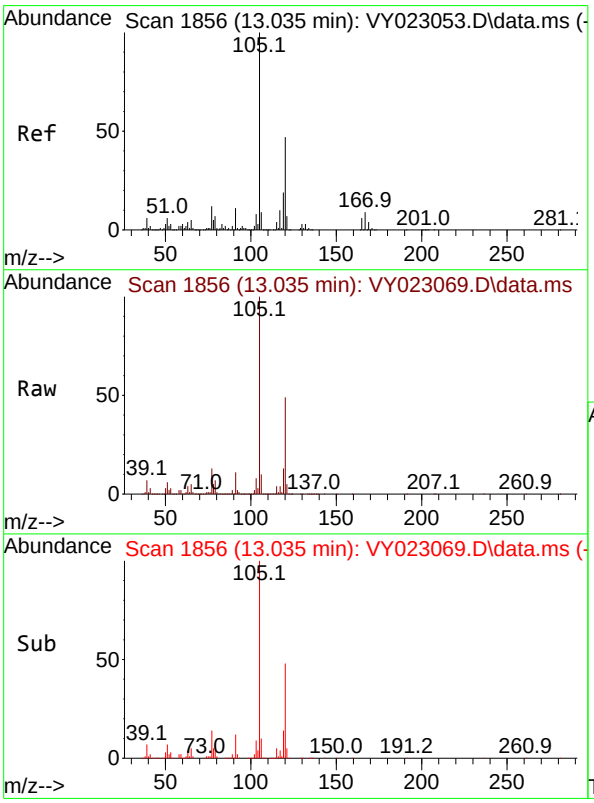

#83
tert-Butylbenzene
Concen: 56.369 ug/l
RT: 13.035 min Scan# 1
Delta R.T. 0.043 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

Tgt Ion:119 Resp: 985298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 82.8 | 31.6 | 94.8 |
| 134 | 0.0 | 12.9 | 38.7# |

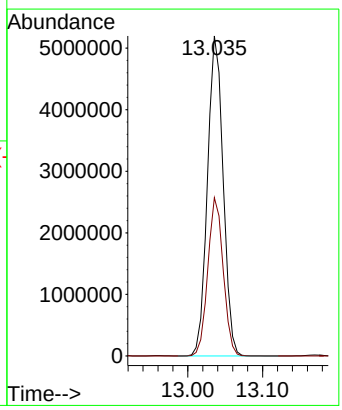


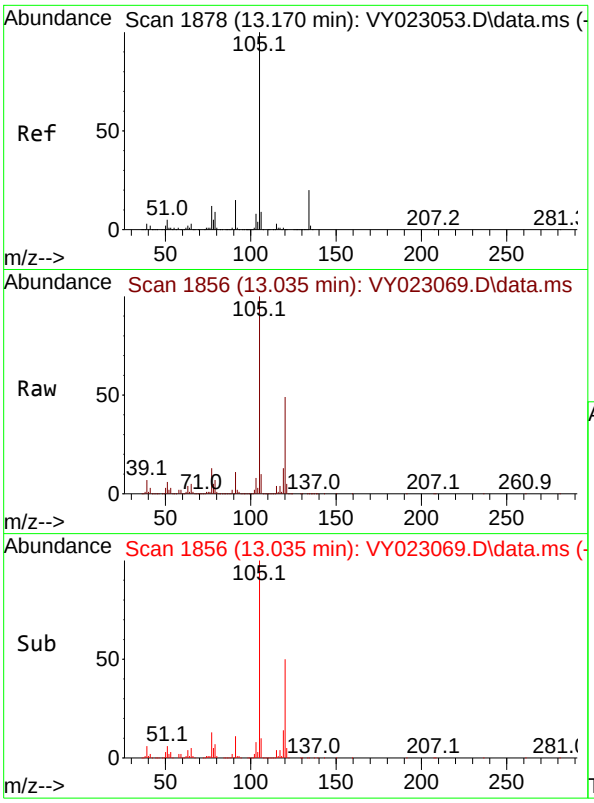




#84
1,2,4-Trimethylbenzene
Concen: 392.581 ug/l
RT: 13.035 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion:105 Resp: 7563336

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.4 | 23.0 | 69.0 |



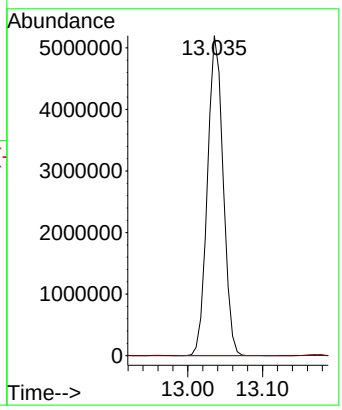


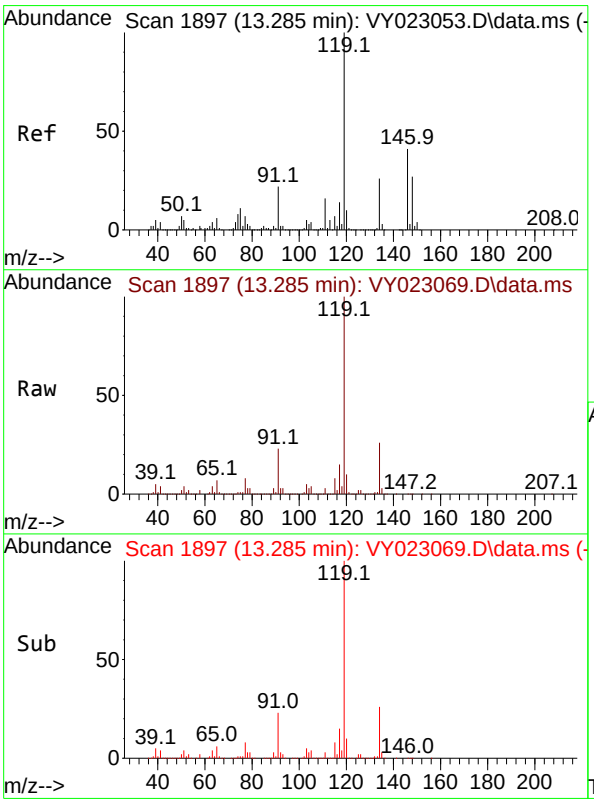

#85
sec-Butylbenzene
Concen: 294.557 ug/l
RT: 13.035 min Scan# 1
Delta R.T. -0.134 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

Tgt Ion:105 Resp: 7563336

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 0.0 | 10.2 | 30.4# |

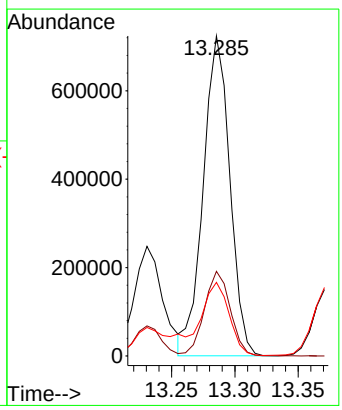


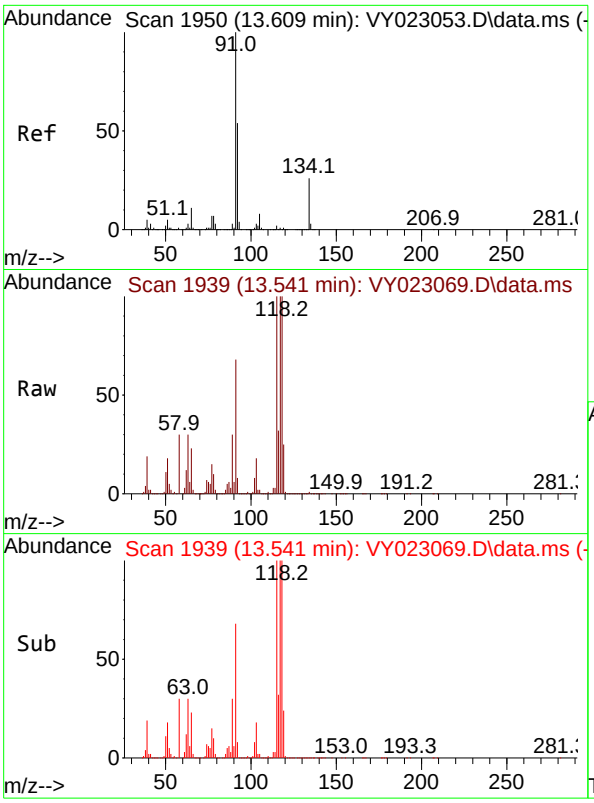




#86
p-Isopropyltoluene
Concen: 49.669 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion:119 Resp: 1058617

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.8 | 13.2 | 39.6 |
| 91 | 0.0 | 11.3 | 33.8# |



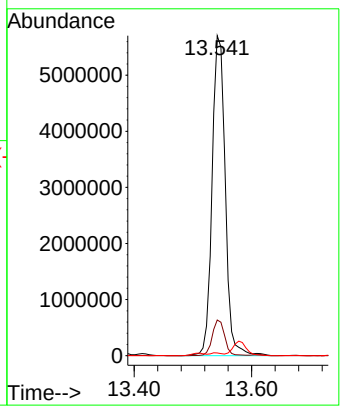


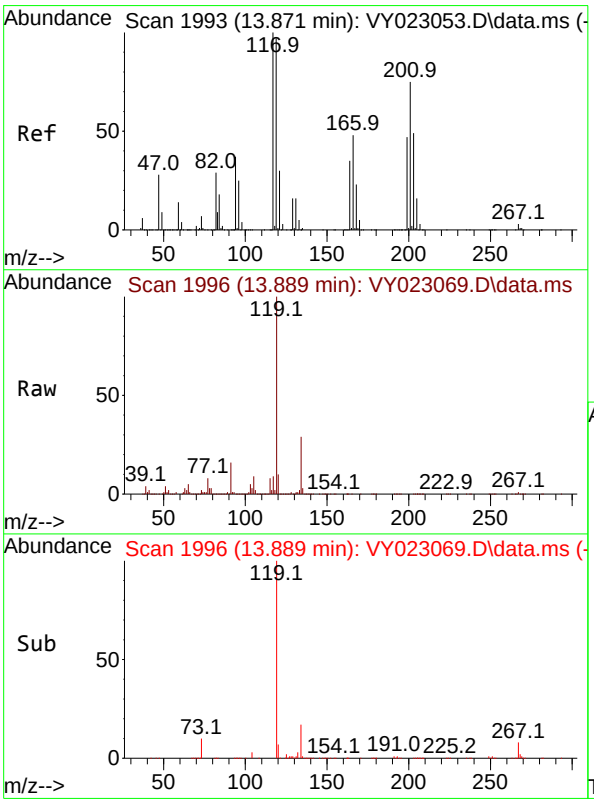

#89
n-Butylbenzene
Concen: 453.226 ug/l
RT: 13.541 min Scan# 1
Delta R.T. -0.067 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

Tgt Ion: 91 Resp: 8872019

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 10.6 | 26.9 | 80.7# |
| 134 | 0.8 | 13.2 | 39.5# |

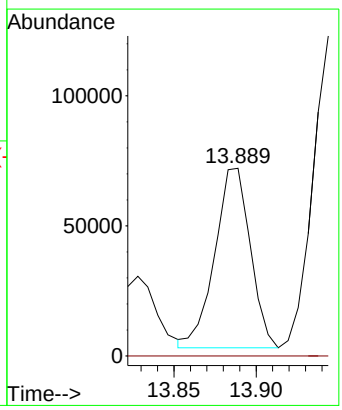


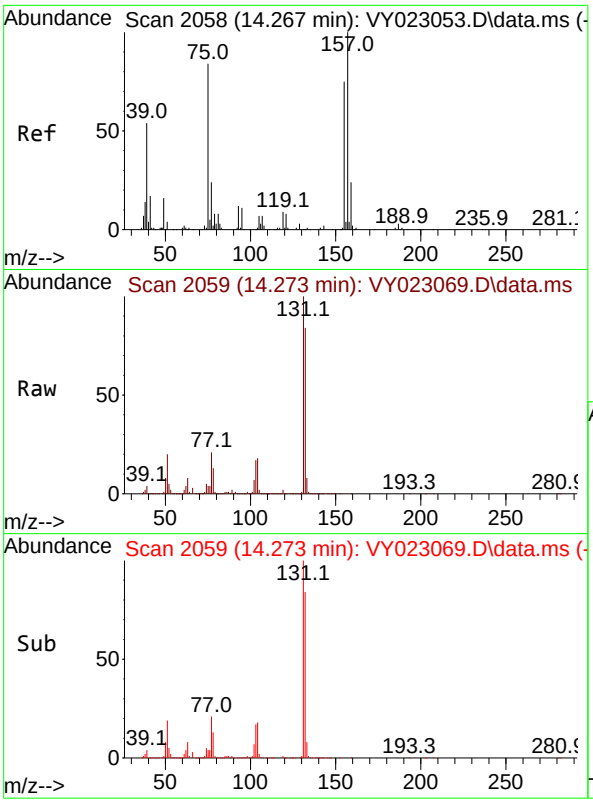




#90
Hexachloroethane
Concen: 23.774 ug/l
RT: 13.889 min Scan# 1996
Delta R.T. 0.018 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion:117 Resp: 103728

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 0.0 | 38.4 | 115.1# |



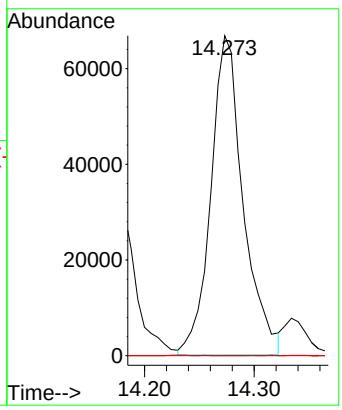



#92
1,2-Dibromo-3-Chloropropane
Concen: 214.601 ug/l
RT: 14.273 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

**Instrument :**
MSVOA_Y
**ClientSampleId :**
11M-N

Tgt Ion: 75 Resp: 136619

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 0.0 | 43.9 | 131.6# |
| 157 | 0.0 | 57.2 | 171.6# |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023082.D
Acq On : 13 Aug 2025 20:00
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Quant Time: Aug 14 03:01:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 442938 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.609 | 114 | 730611 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 653170 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 337955 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 217167 | 51.443 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 102.880% | | | |
| 35) Dibromofluoromethane | 7.628 | 113 | 218038 | 49.874 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 99.740% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 848458 | 49.680 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 99.360% | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 277110 | 50.453 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 100.900% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 141385 | 39.105 | ug/l | 97 |
| 3) Chloromethane | 2.068 | 50 | 301762 | 51.531 | ug/l | 97 |
| 4) Vinyl Chloride | 2.202 | 62 | 376058 | 51.951 | ug/l | 98 |
| 5) Bromomethane | 2.592 | 94 | 302117 | 55.884 | ug/l | 99 |
| 6) Chloroethane | 2.732 | 64 | 263860 | 54.827 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.049 | 101 | 418963 | 47.599 | ug/l | 98 |
| 8) Diethyl Ether | 3.458 | 74 | 110091 | 47.275 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 3.811 | 101 | 201980 | 46.513 | ug/l | 100 |
| 10) Methyl Iodide | 4.000 | 142 | 222876 | 47.564 | ug/l | 98 |
| 11) Tert butyl alcohol | 4.860 | 59 | 63163 | 218.366 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 201251 | 47.150 | ug/l | 96 |
| 13) Acrolein | 3.653 | 56 | 74262 | 175.306 | ug/l | 96 |
| 14) Allyl chloride | 4.378 | 41 | 299858 | 47.744 | ug/l | 99 |
| 15) Acrylonitrile | 5.055 | 53 | 229299 | 242.199 | ug/l | 99 |
| 16) Acetone | 3.872 | 43 | 181474 | 198.426 | ug/l | 95 |
| 17) Carbon Disulfide | 4.104 | 76 | 659370 | 47.377 | ug/l | 98 |
| 18) Methyl Acetate | 4.385 | 43 | 144547 | 53.111 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 540452 | 48.863 | ug/l | 98 |
| 20) Methylene Chloride | 4.610 | 84 | 245813 | 51.824 | ug/l | 99 |
| 21) trans-1,2-Dichloroethene | 5.110 | 96 | 239199 | 49.867 | ug/l | 98 |
| 22) Diisopropyl ether | 6.018 | 45 | 695381 | 50.952 | ug/l | 98 |
| 23) Vinyl Acetate | 5.957 | 43 | 1789905 | 237.183 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.909 | 63 | 424330 | 50.854 | ug/l | 100 |
| 25) 2-Butanone | 6.890 | 43 | 279864 | 224.999 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 314878 | 43.733 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 280376 | 50.561 | ug/l | 98 |
| 28) Bromochloromethane | 7.244 | 49 | 174333 | 52.662 | ug/l | 97 |
| 29) Tetrahydrofuran | 7.256 | 42 | 183892 | 238.509 | ug/l | 98 |
| 30) Chloroform | 7.421 | 83 | 441927 | 51.354 | ug/l | 98 |
| 31) Cyclohexane | 7.701 | 56 | 356707 | 45.365 | ug/l | 100 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 376634 | 49.325 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 308332 | 47.457 | ug/l | 99 |
| 37) Ethyl Acetate | 6.982 | 43 | 121535 | 44.531 | ug/l | 100 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 333012 | 47.191 | ug/l | 98 |
| 39) Methylcyclohexane | 9.103 | 83 | 397504 | 46.461 | ug/l | 99 |
| 40) Benzene | 8.079 | 78 | 984401 | 49.159 | ug/l | 98 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023082.D
Acq On : 13 Aug 2025 20:00
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Quant Time: Aug 14 03:01:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.219 | 41 | 68628 | 43.571 | ug/l | | 91 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 256723 | 49.294 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.195 | 43 | 254100 | 46.064 | ug/l | | 98 |
| 44) Trichloroethene | 8.859 | 130 | 247693 | 47.865 | ug/l | | 98 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 231080 | 50.153 | ug/l | | 100 |
| 46) Dibromomethane | 9.225 | 93 | 131895 | 49.874 | ug/l | | 96 |
| 47) Bromodichloromethane | 9.420 | 83 | 337254 | 49.561 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.219 | 41 | 122447 | 46.388 | ug/l | | 96 |
| 49) 1,4-Dioxane | 9.225 | 88 | 29363 | 946.941 | ug/l | | 95 |
| 51) 4-Methyl-2-Pentanone | 9.993 | 43 | 670681 | 235.707 | ug/l | | 99 |
| 52) Toluene | 10.164 | 92 | 634517 | 49.890 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 292128 | 47.408 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 348886 | 47.881 | ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 10.566 | 97 | 171270 | 48.399 | ug/l | | 99 |
| 56) Ethyl methacrylate | 10.438 | 69 | 218091 | 48.164 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 294300 | 49.039 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 563277 | 263.718 | ug/l | | 100 |
| 59) 2-Hexanone | 10.755 | 43 | 444743 | 229.542 | ug/l | | 99 |
| 60) Dibromochloromethane | 10.908 | 129 | 228588 | 48.956 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.011 | 107 | 162363 | 48.817 | ug/l | | 98 |
| 64) Tetrachloroethene | 10.646 | 164 | 288562 | 49.476 | ug/l | | 99 |
| 65) Chlorobenzene | 11.438 | 112 | 684648 | 48.595 | ug/l | | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 11.511 | 131 | 232459 | 48.615 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.517 | 91 | 1179134 | 48.633 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 928592 | 98.062 | ug/l | | 99 |
| 69) o-Xylene | 11.950 | 106 | 437649 | 49.346 | ug/l | | 98 |
| 70) Styrene | 11.962 | 104 | 741269 | 51.107 | ug/l | | 99 |
| 71) Bromoform | 12.127 | 173 | 128021 | 45.809 | ug/l | # | 97 |
| 73) Isopropylbenzene | 12.249 | 105 | 1120808 | 46.989 | ug/l | | 99 |
| 74) N-amyl acetate | 12.066 | 43 | 227982 | 45.070 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.499 | 83 | 181898 | 44.662 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.548 | 75 | 243249 | 74.579 | ug/l | # | 100 |
| 77) Bromobenzene | 12.523 | 156 | 261080 | 45.880 | ug/l | | 98 |
| 78) n-propylbenzene | 12.590 | 91 | 1351965 | 47.608 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 768315 | 47.220 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.731 | 105 | 925355 | 48.002 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.298 | 75 | 55874 | 41.468 | ug/l | | 99 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 801214 | 47.468 | ug/l | | 100 |
| 83) tert-Butylbenzene | 12.993 | 119 | 810256 | 46.538 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.035 | 105 | 927586 | 48.337 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.170 | 105 | 1204282 | 47.086 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.285 | 119 | 1019726 | 48.033 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.279 | 146 | 527390 | 46.997 | ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 13.359 | 146 | 517037 | 46.447 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.615 | 91 | 926009 | 47.492 | ug/l | | 99 |
| 90) Hexachloroethane | 13.877 | 117 | 207292 | 47.698 | ug/l | | 97 |
| 91) 1,2-Dichlorobenzene | 13.651 | 146 | 460225 | 46.764 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.267 | 75 | 28670 | 45.213 | ug/l | | 95 |
| 93) 1,2,4-Trichlorobenzene | 14.913 | 180 | 253171 | 43.501 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.017 | 225 | 143600 | 41.989 | ug/l | | 98 |
| 95) Naphthalene | 15.139 | 128 | 459045 | 46.256 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.322 | 180 | 216348 | 43.140 | ug/l | | 99 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023082.D
Acq On : 13 Aug 2025 20:00
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Quant Time: Aug 14 03:01:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

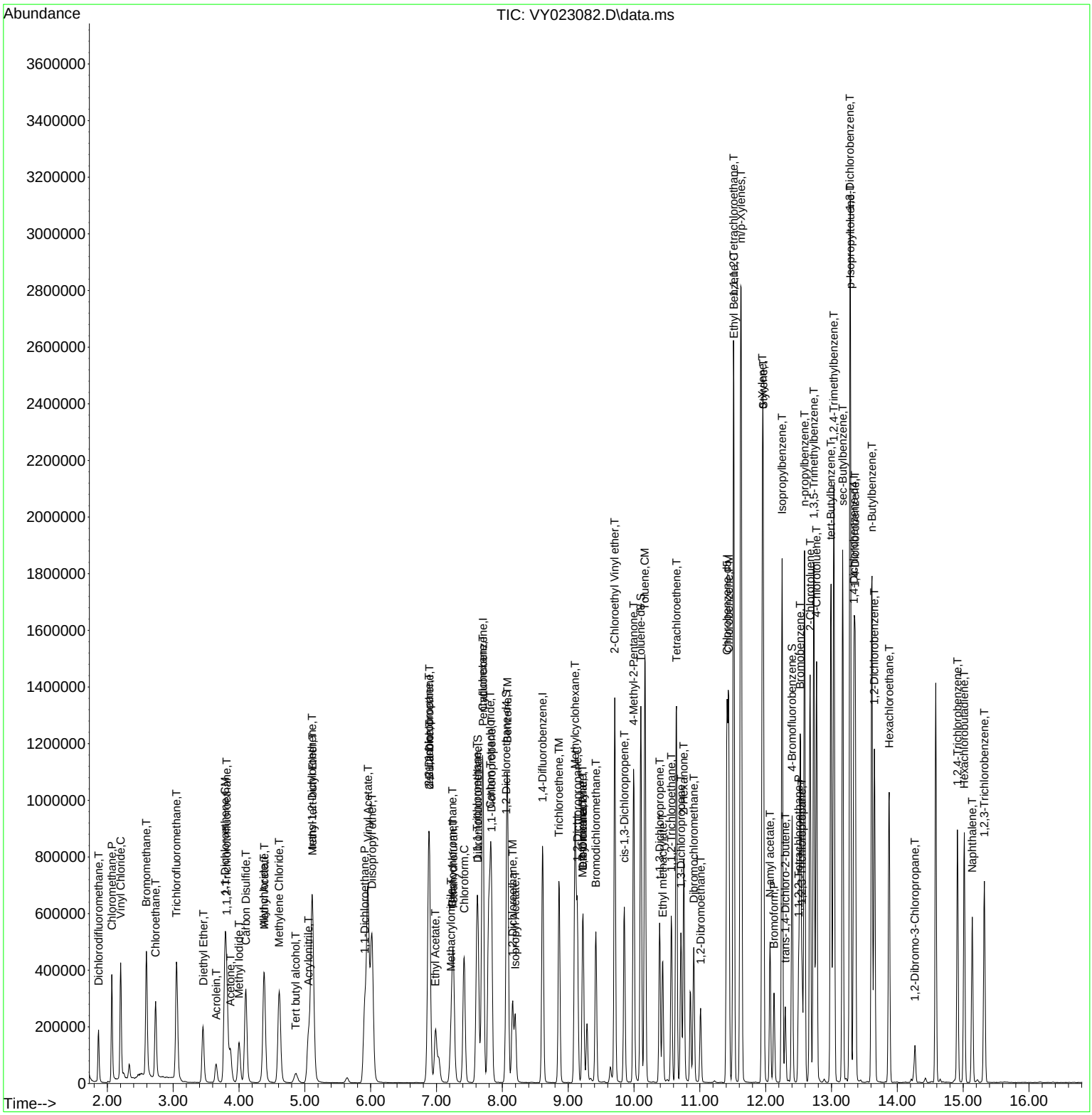
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

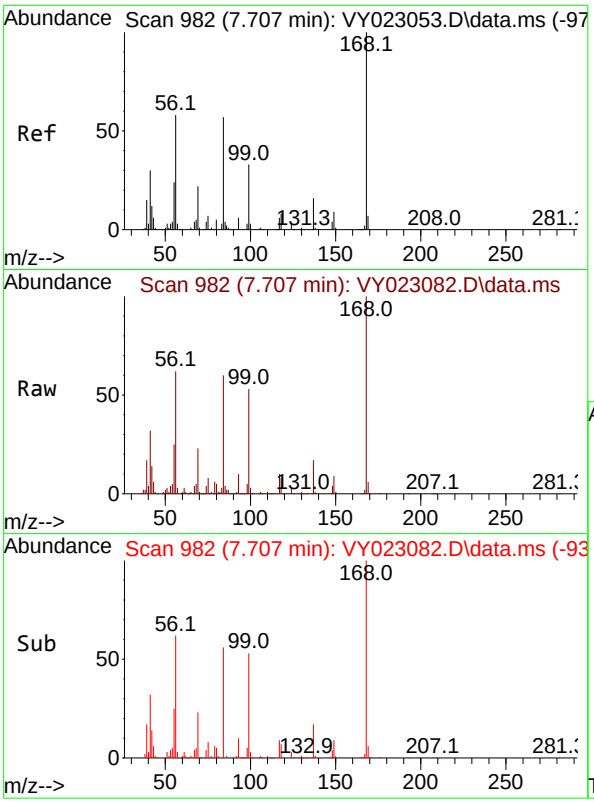
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023082.D
Acq On : 13 Aug 2025 20:00
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Quant Time: Aug 14 03:01:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



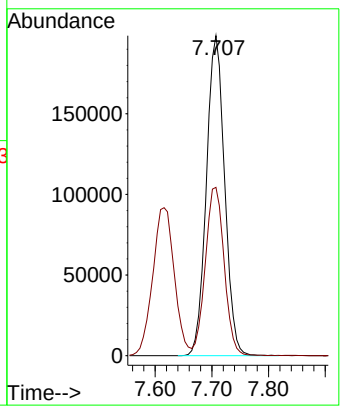


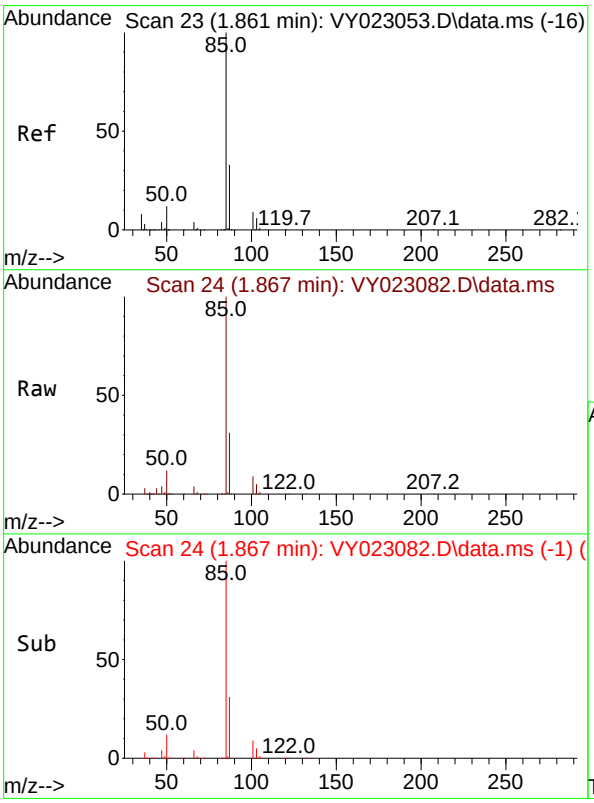

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:168 Resp: 442938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 52.5 | 42.8 | 64.2 |

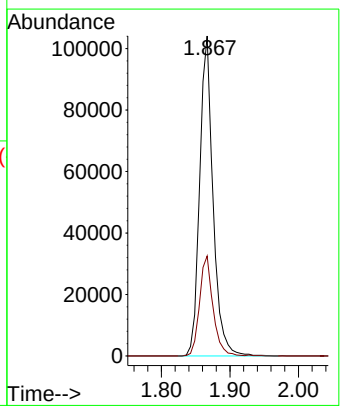


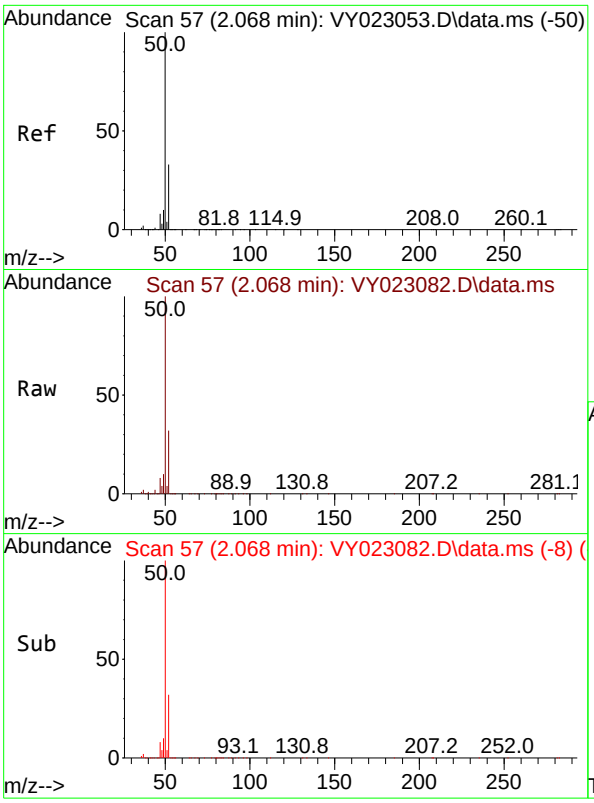




#2
Dichlorodifluoromethane
Concen: 39.105 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 85 Resp: 141385

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.3 | 16.6 | 49.8 |



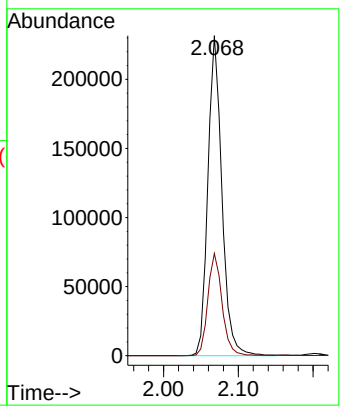


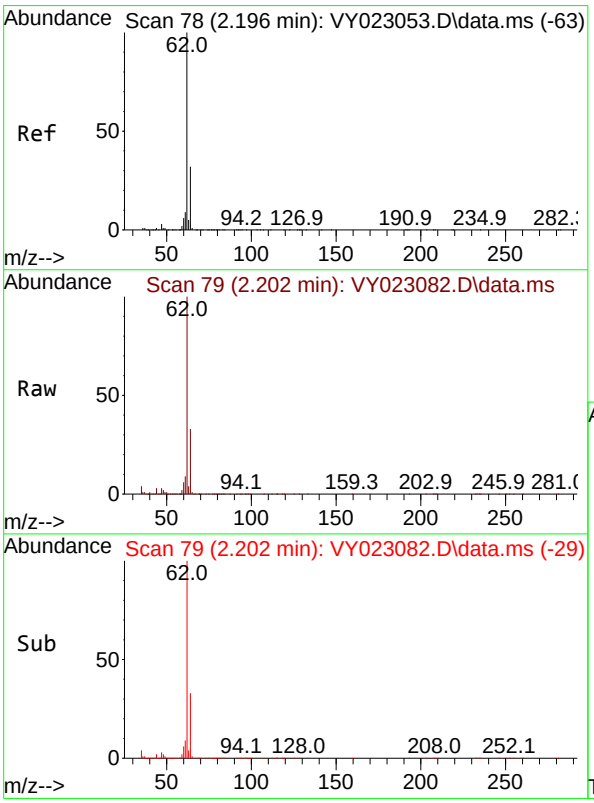

#3
Chloromethane
Concen: 51.531 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 50 Resp: 301762

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.0 | 26.7 | 40.1 |

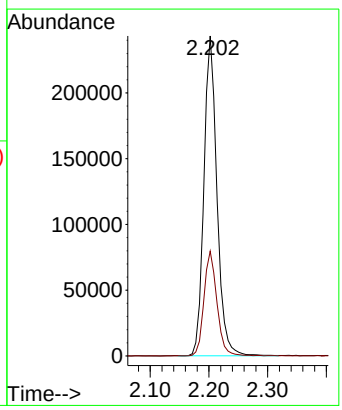


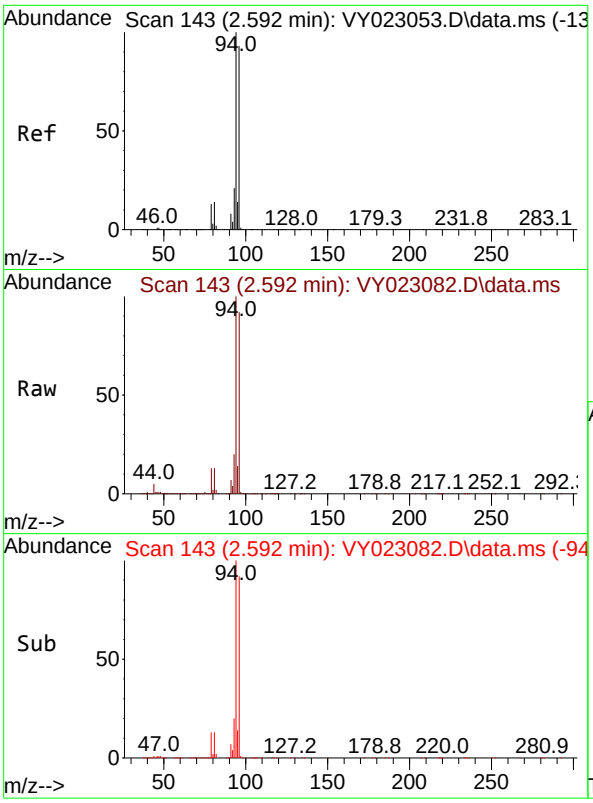




#4
Vinyl Chloride
Concen: 51.951 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 62 Resp: 376058

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.7 | 25.4 | 38.0 |



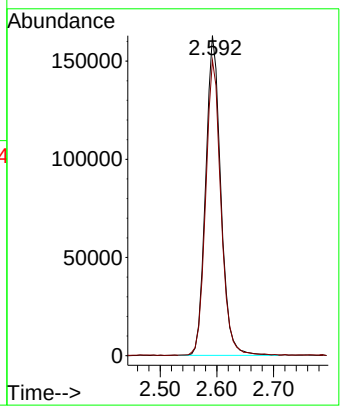


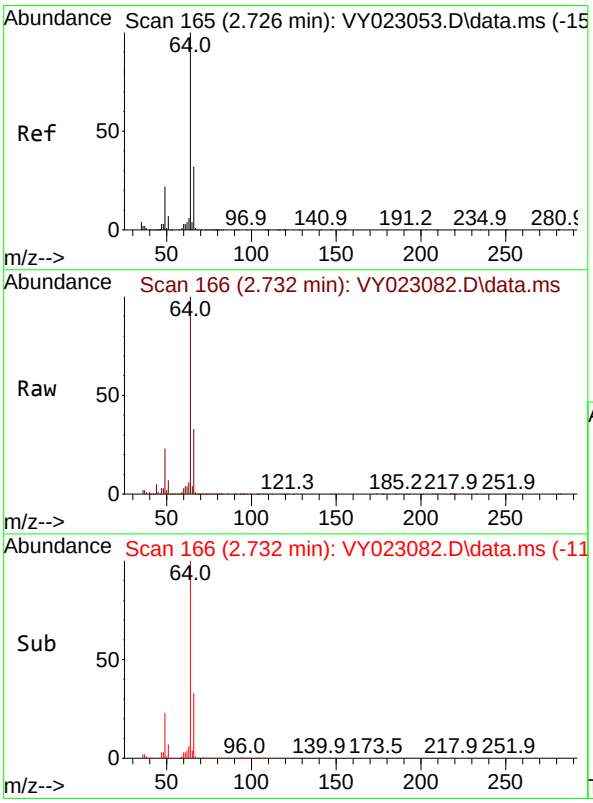

#5
Bromomethane
Concen: 55.884 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 94 Resp: 302117

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 92.2 | 74.6 | 112.0 |

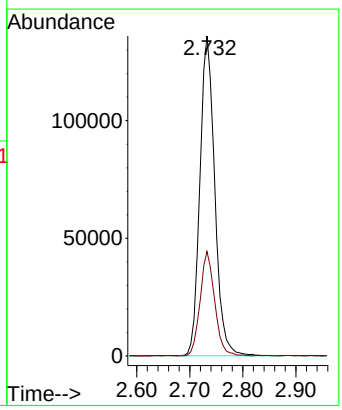


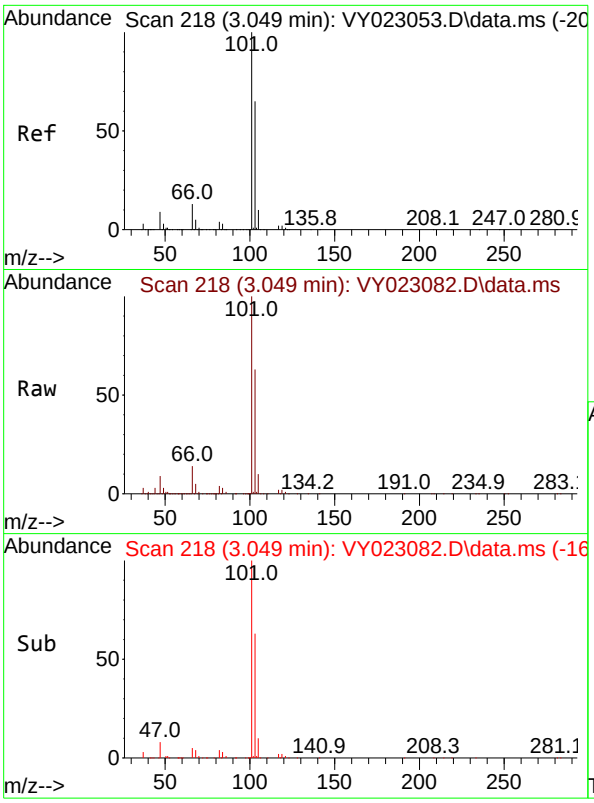




#6
Chloroethane
Concen: 54.827 ug/l
RT: 2.732 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 64 Resp: 263860

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.6 | 25.8 | 38.6 |



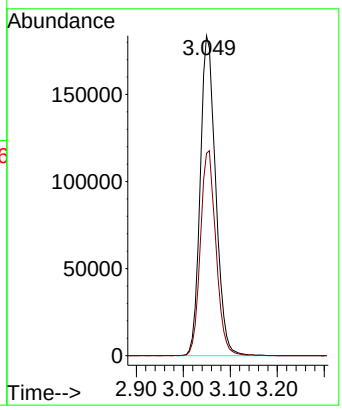


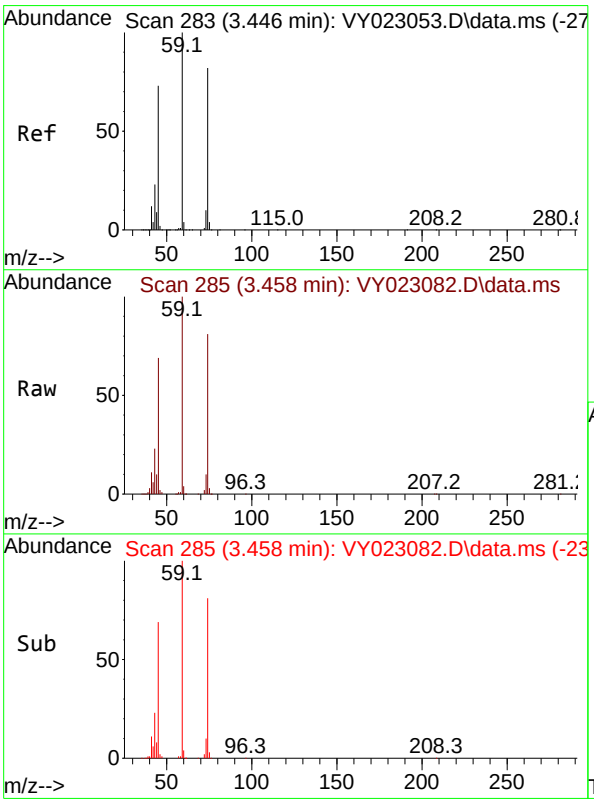

#7
Trichlorofluoromethane
Concen: 47.599 ug/l
RT: 3.049 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:101 Resp: 418963

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.3 | 51.9 | 77.9 |

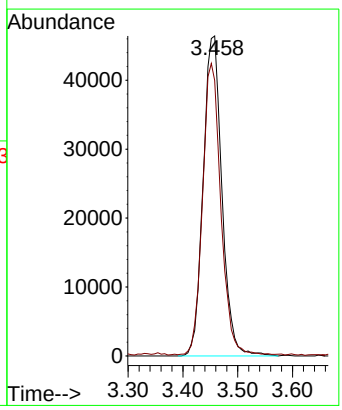


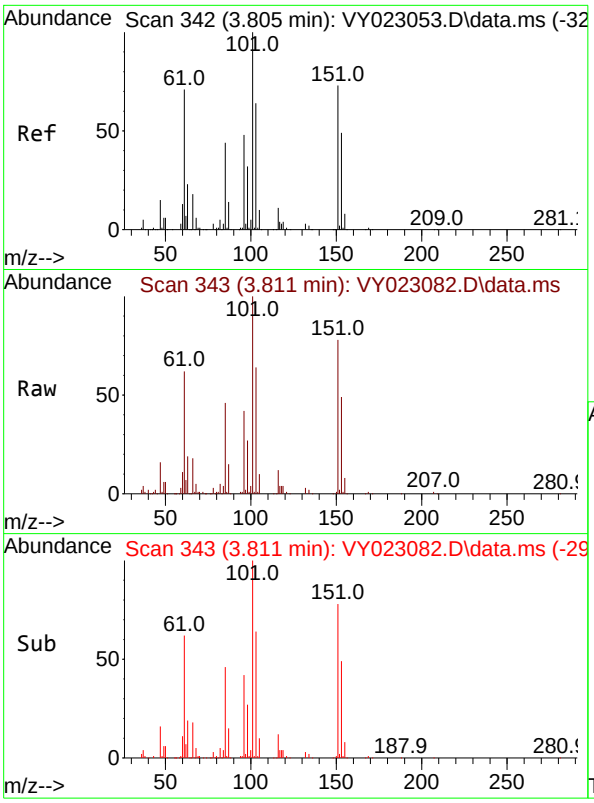




#8
Diethyl Ether
Concen: 47.275 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.012 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 74 Resp: 110091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 88.4 | 44.4 | 133.2 |



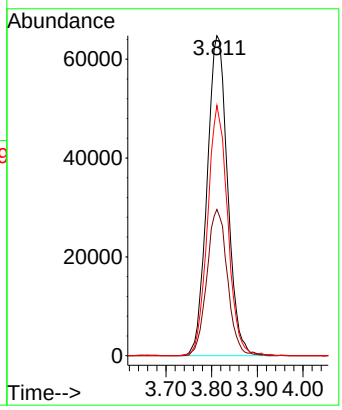


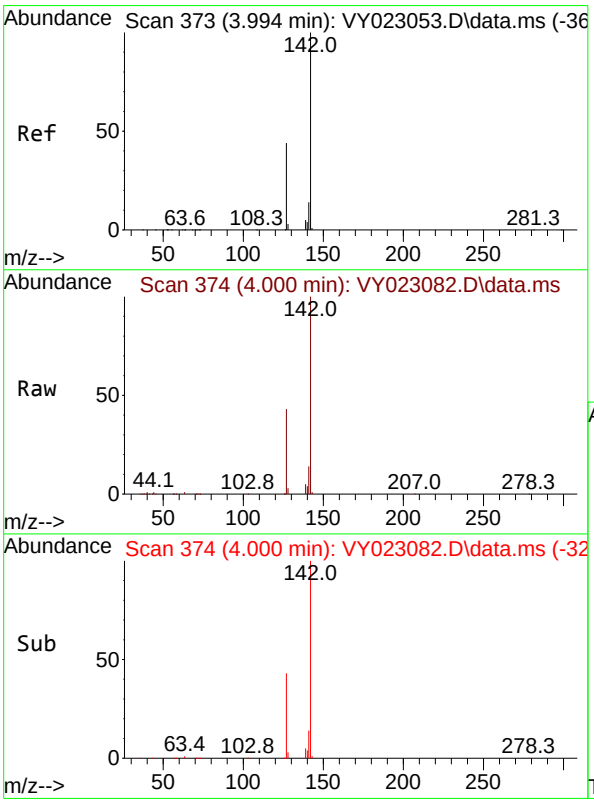

#9
1,1,2-Trichlorotrifluoroethane
Concen: 46.513 ug/l
RT: 3.811 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:101 Resp: 201980

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 45.8 | 36.3 | 54.5 |
| 151 | 76.7 | 61.5 | 92.3 |

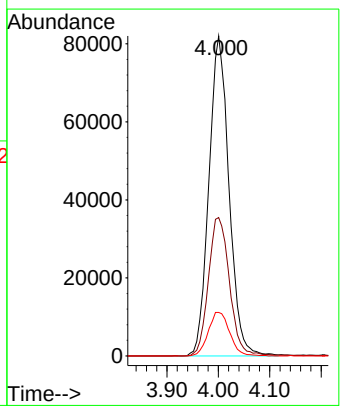


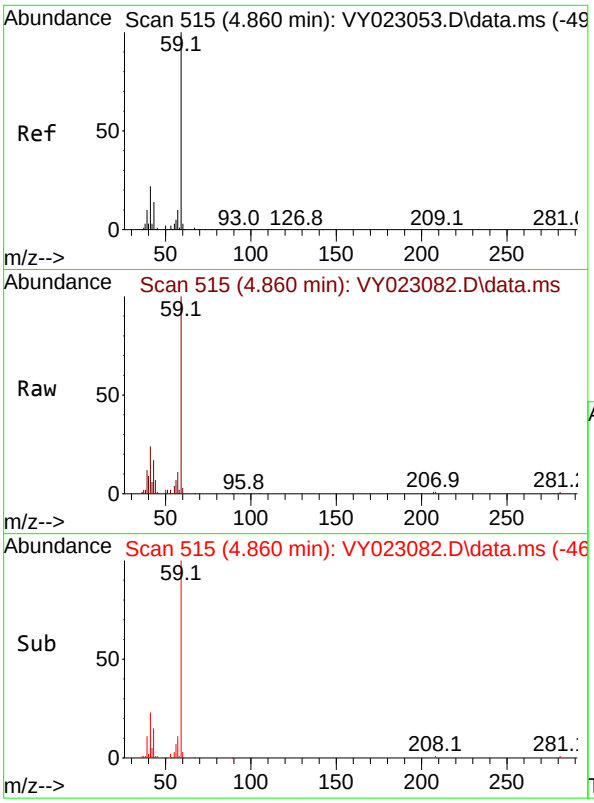




#10
Methyl Iodide
Concen: 47.564 ug/l
RT: 4.000 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:142 Resp: 222876

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 45.4 | 34.9 | 52.3 |
| 141 | 14.6 | 11.3 | 16.9 |



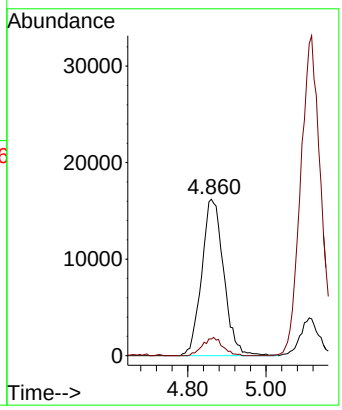


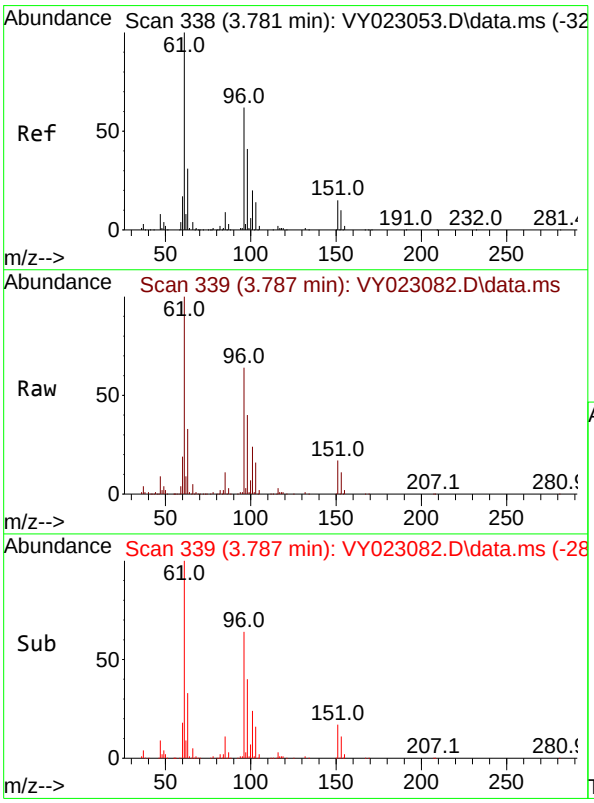

#11
Tert butyl alcohol
Concen: 218.366 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 59 Resp: 63163

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.6 | 8.6 | 13.0 |

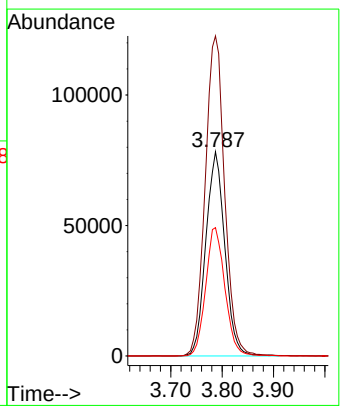


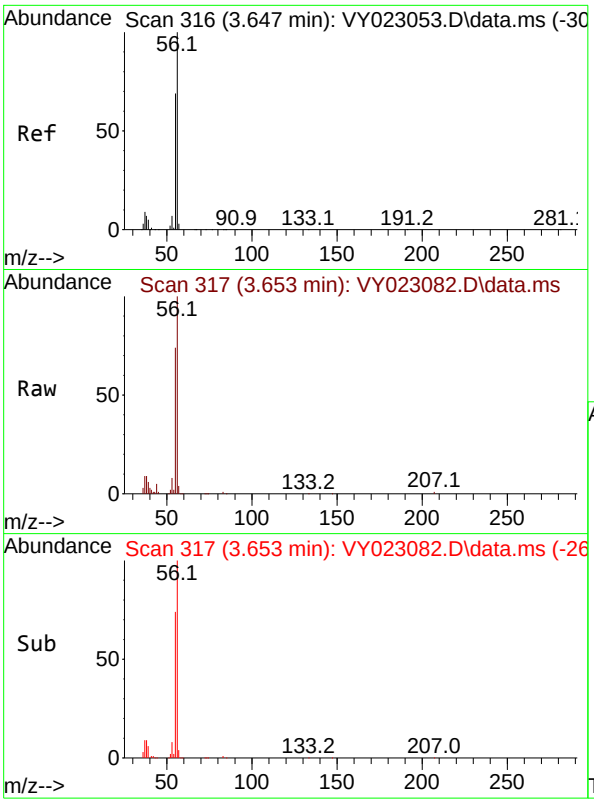




#12
1,1-Dichloroethene
Concen: 47.150 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 96 Resp: 201251

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 156.7 | 129.4 | 194.2 |
| 98 | 62.9 | 52.8 | 79.2 |



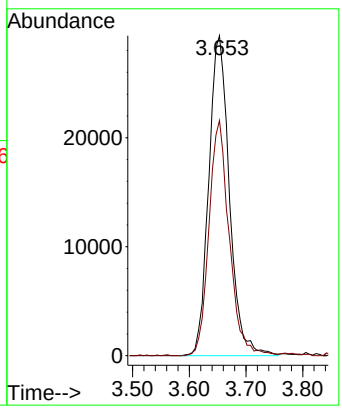


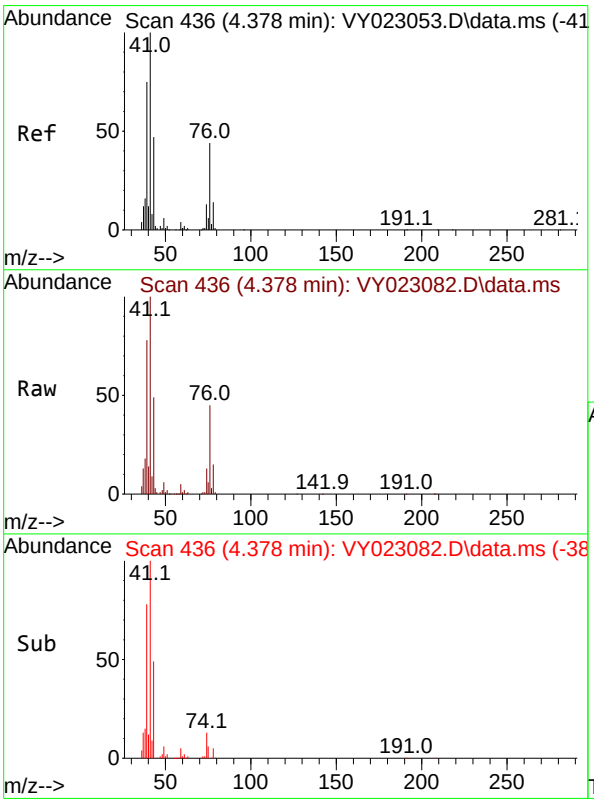

#13
Acrolein
Concen: 175.306 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 56 Resp: 74262

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 72.1 | 55.2 | 82.8 |

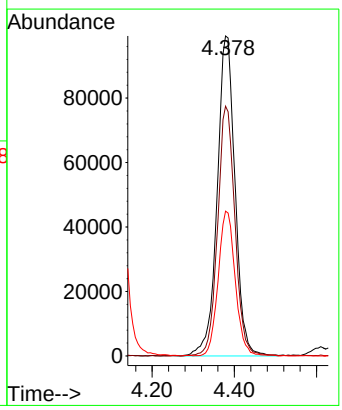


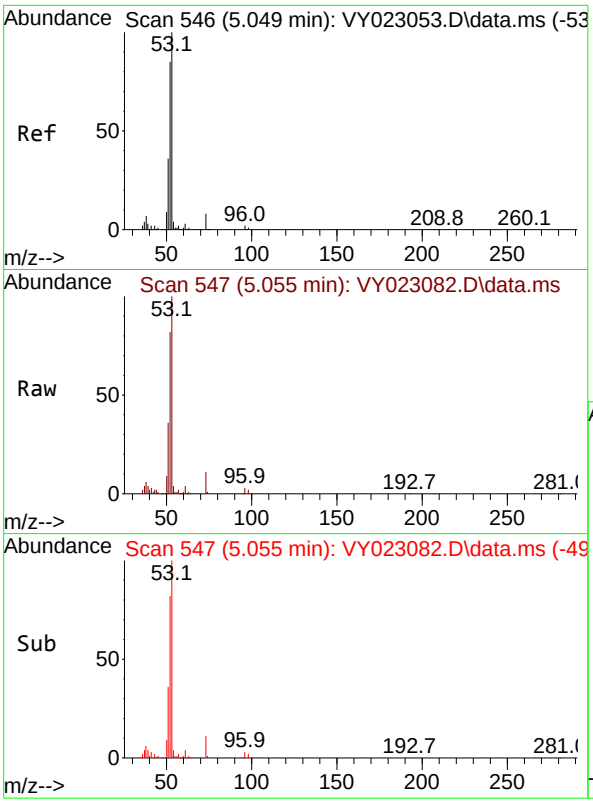




#14
Allyl chloride
Concen: 47.744 ug/l
RT: 4.378 min Scan# 436
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 41 Resp: 299858

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 75.7 | 59.8 | 89.6 |
| 76 | 43.3 | 33.7 | 50.5 |



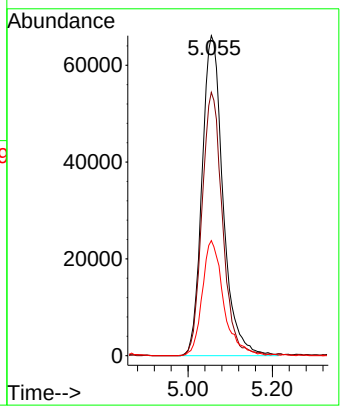


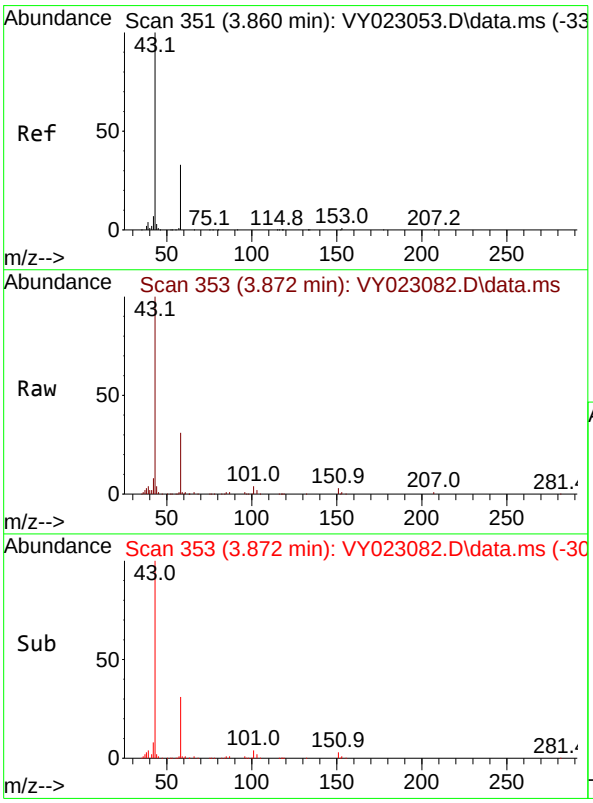

#15
Acrylonitrile
Concen: 242.199 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 53 Resp: 229299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 80.1 | 65.3 | 97.9 |
| 51 | 36.6 | 29.5 | 44.3 |

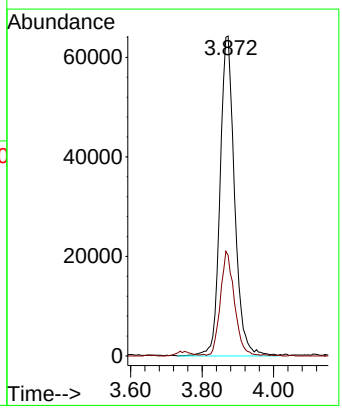


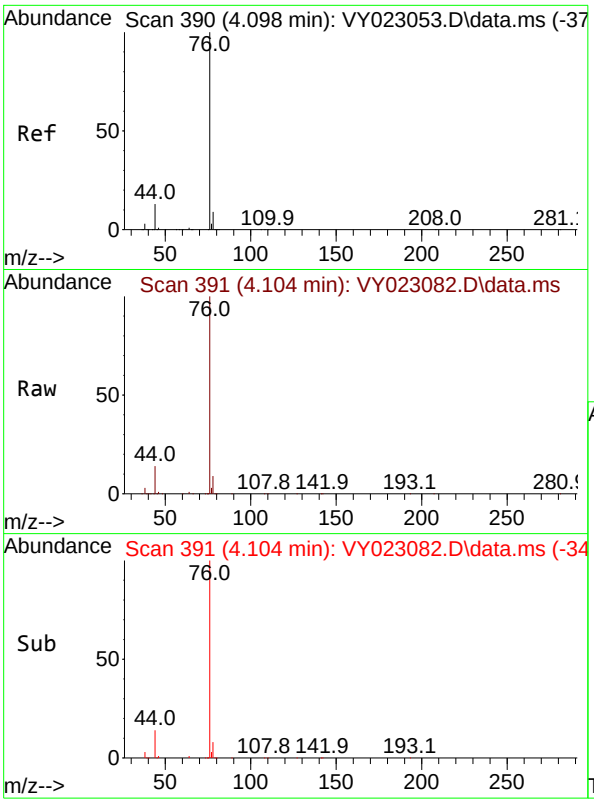




#16
Acetone
Concen: 198.426 ug/l
RT: 3.872 min Scan# 353
Delta R.T. 0.012 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 43 Resp: 181474

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.2 | 27.1 | 40.7 |



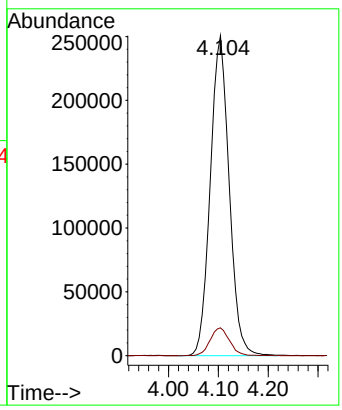


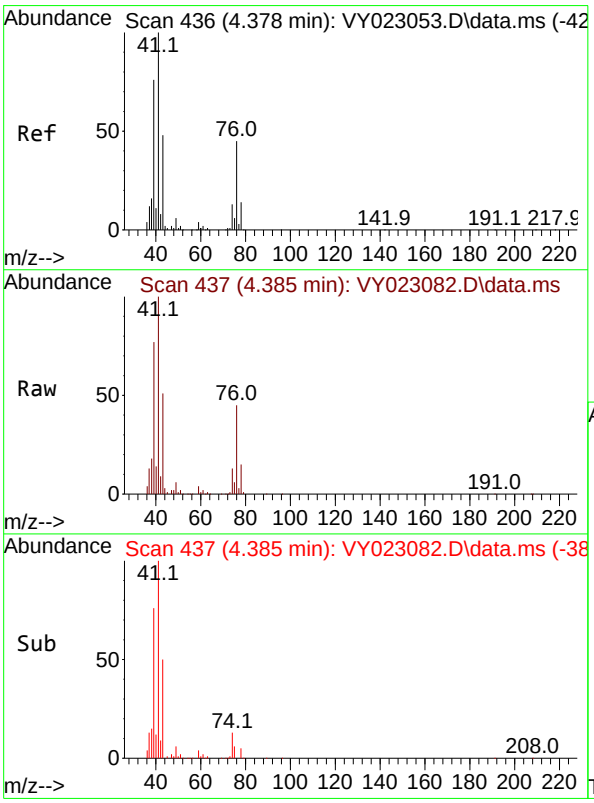

#17
Carbon Disulfide
Concen: 47.377 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 76 Resp: 659370

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.7 | 7.4 | 11.2 |

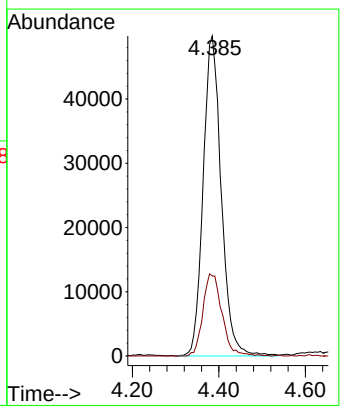


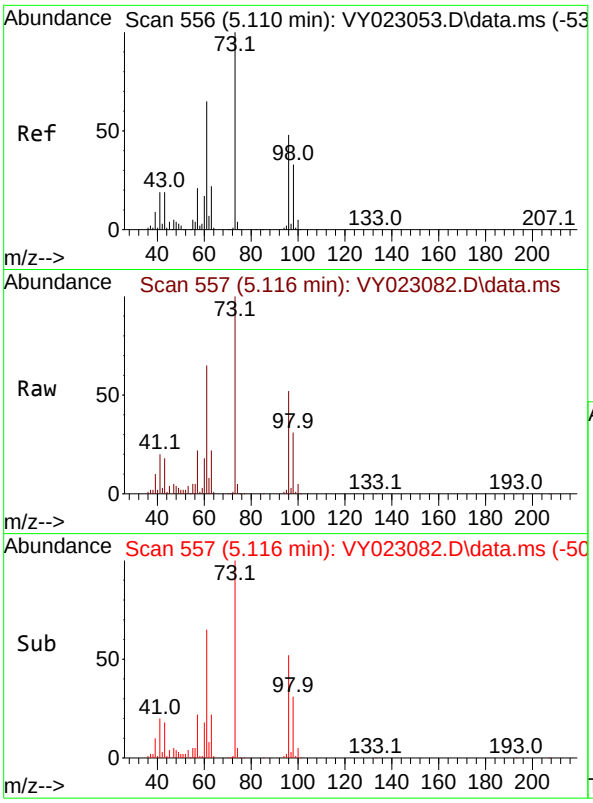




#18
Methyl Acetate
Concen: 53.111 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 43 Resp: 144547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 26.9 | 21.2 | 31.8 |



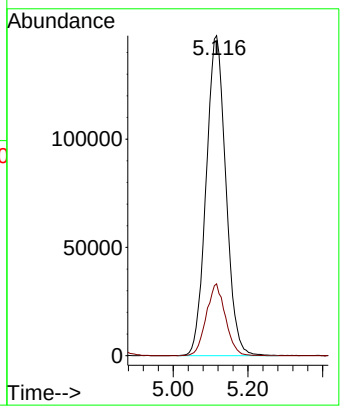


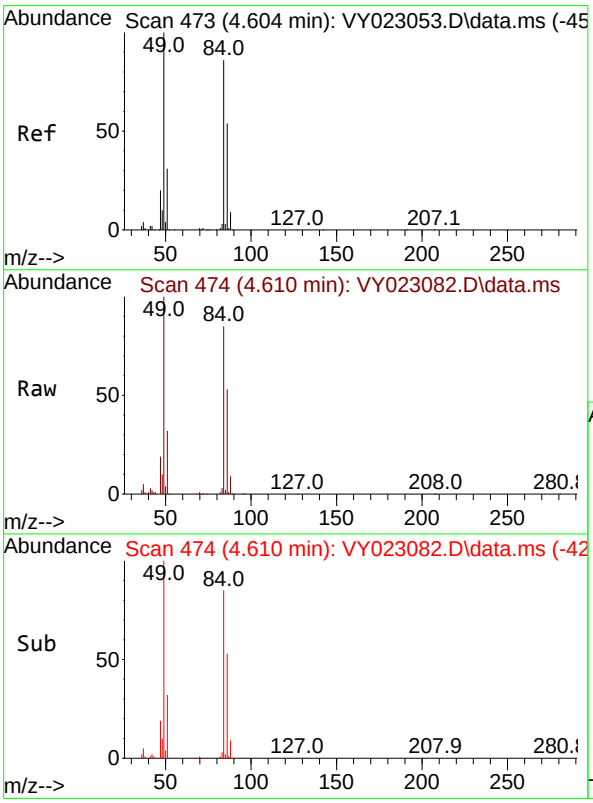

#19
Methyl tert-butyl Ether
Concen: 48.863 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 73 Resp: 540452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.4 | 17.1 | 25.7 |

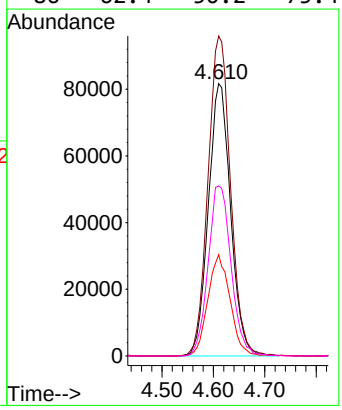


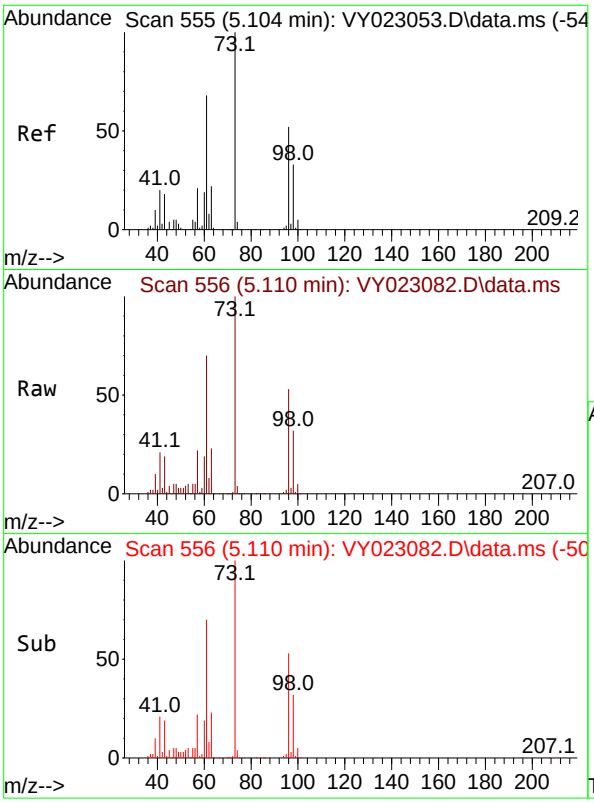




#20
Methylene Chloride
Concen: 51.824 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 84 Resp: 245813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 117.4 | 93.0 | 139.6 |
| 51 | 37.1 | 29.0 | 43.4 |
| 86 | 62.4 | 50.2 | 75.4 |



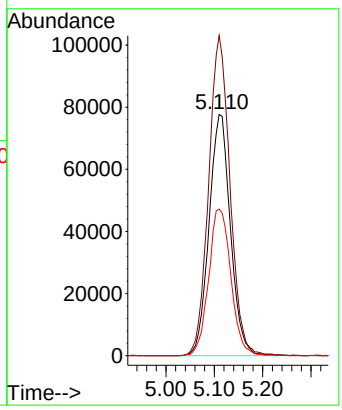


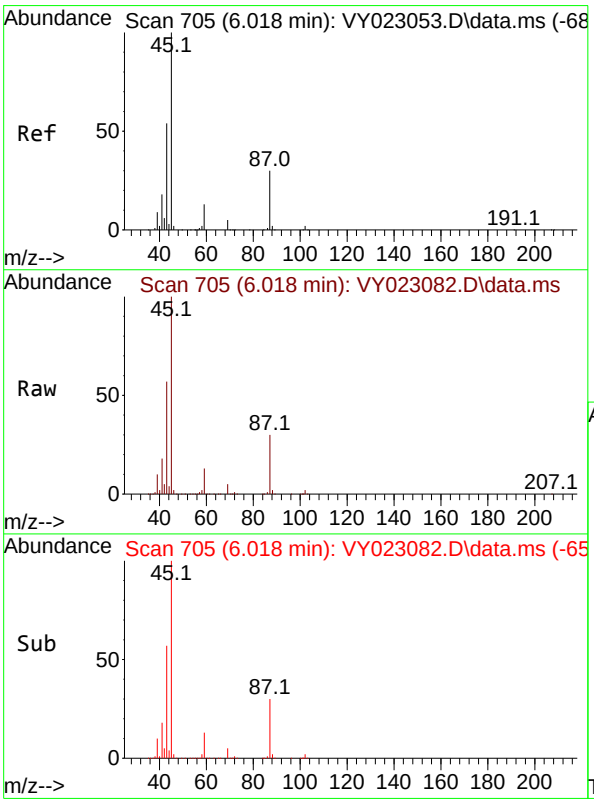

#21
trans-1,2-Dichloroethene
Concen: 49.867 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 96 Resp: 239199

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 132.6 | 104.8 | 157.2 |
| 98 | 60.7 | 50.1 | 75.1 |

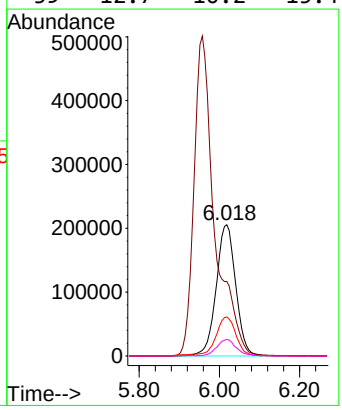


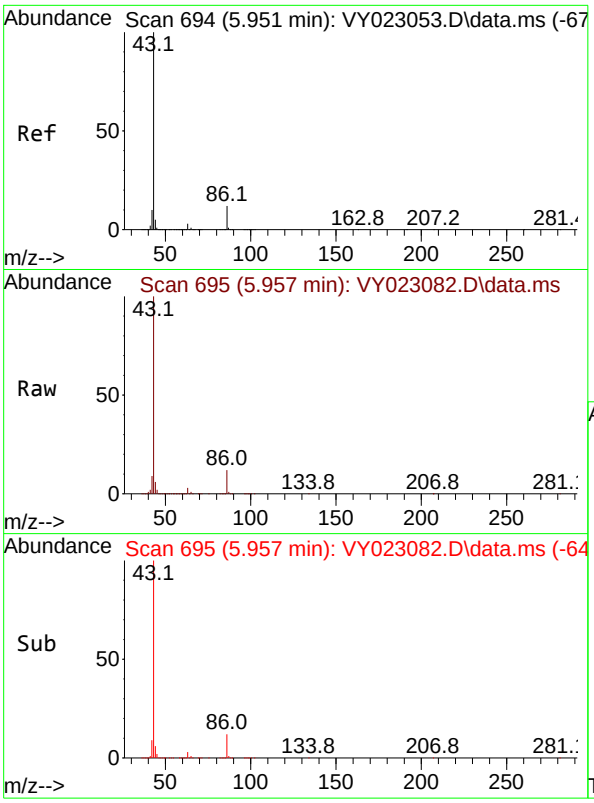




#22
Diisopropyl ether
Concen: 50.952 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 45 Resp: 695381

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 56.4 | 43.4 | 65.0 |
| 87 | 29.7 | 24.4 | 36.6 |
| 59 | 12.7 | 10.2 | 15.4 |



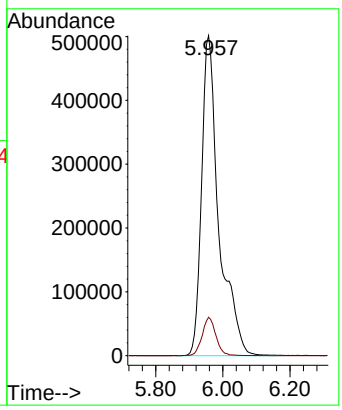


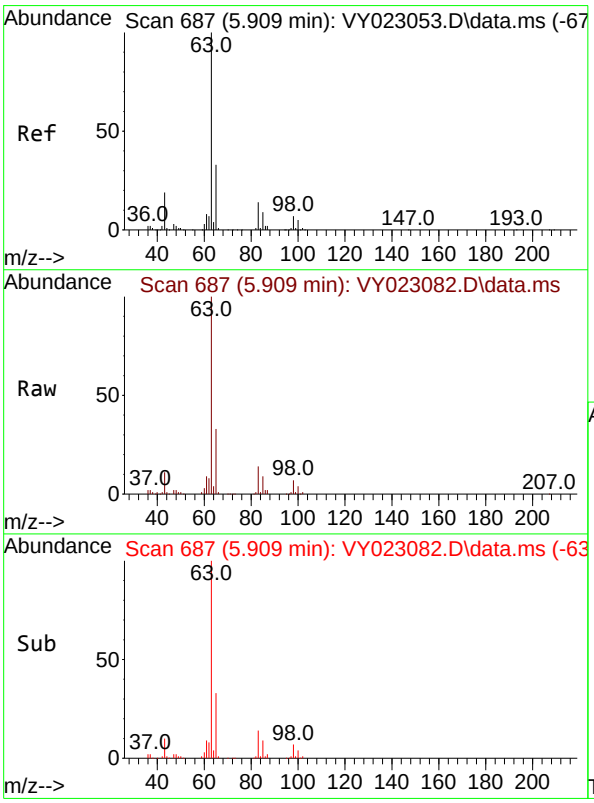

#23
Vinyl Acetate
Concen: 237.183 ug/l
RT: 5.957 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 43 Resp: 1789905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 12.0 | 9.6 | 14.4 |

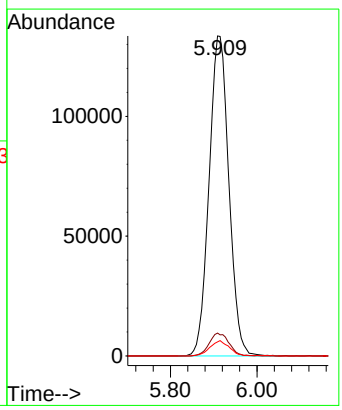


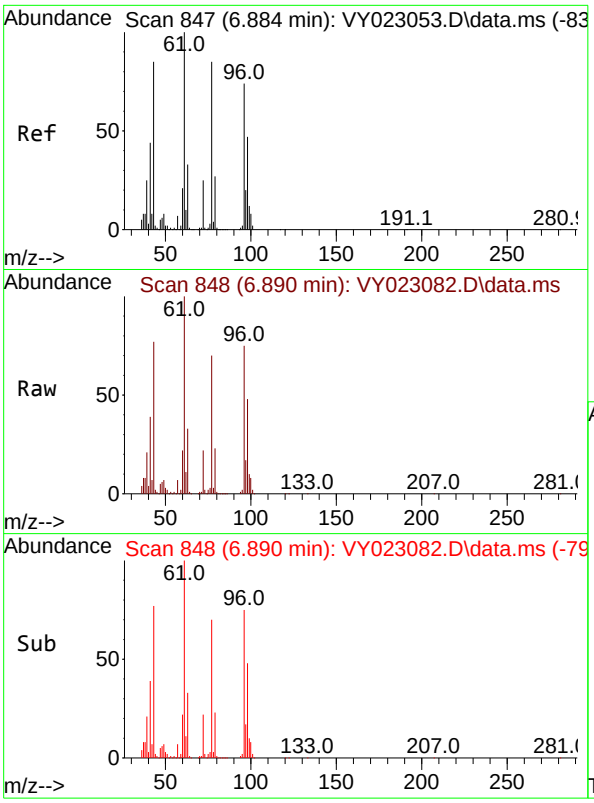




#24
1,1-Dichloroethane
Concen: 50.854 ug/l
RT: 5.909 min Scan# 687
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 63 Resp: 424330

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.1 | 3.5 | 10.6 |
| 100 | 4.4 | 2.4 | 7.1 |



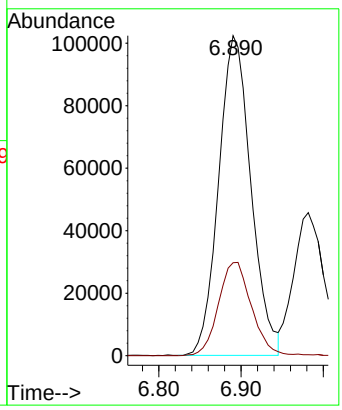


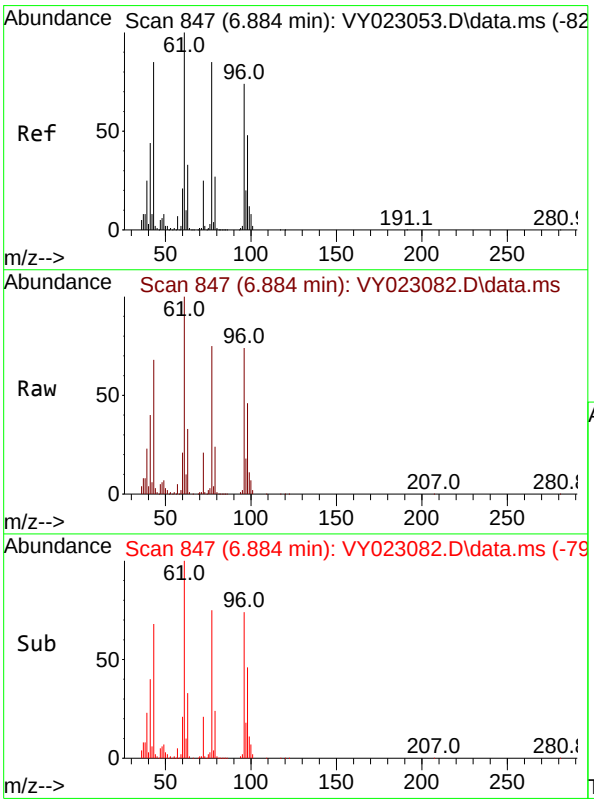

#25
2-Butanone
Concen: 224.999 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 43 Resp: 279864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 29.1 | 23.5 | 35.3 |

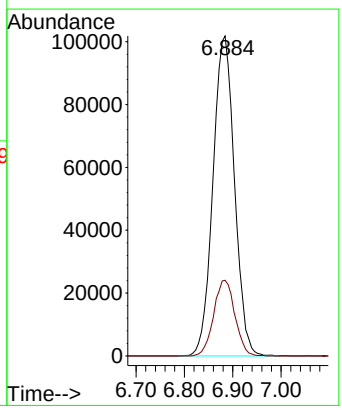


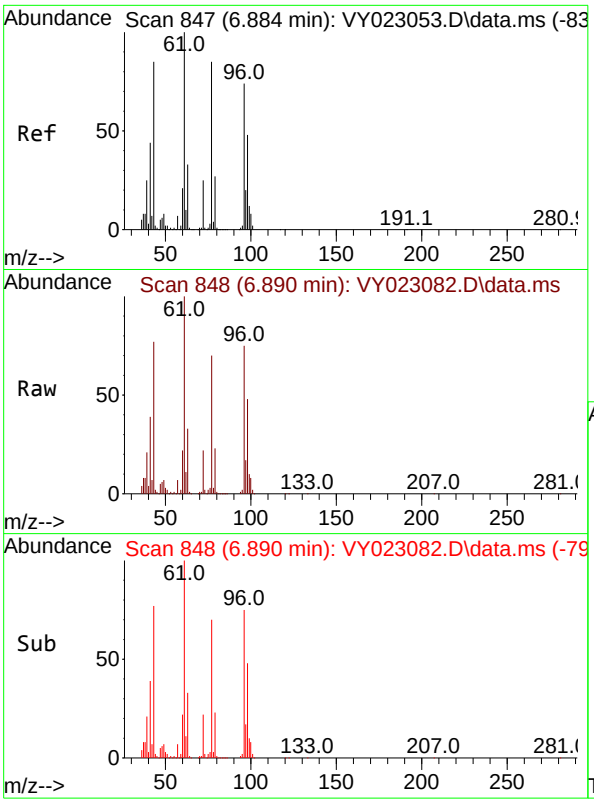




#26
2,2-Dichloropropane
Concen: 43.733 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 77 Resp: 314878

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.3 | 11.6 | 34.8 |



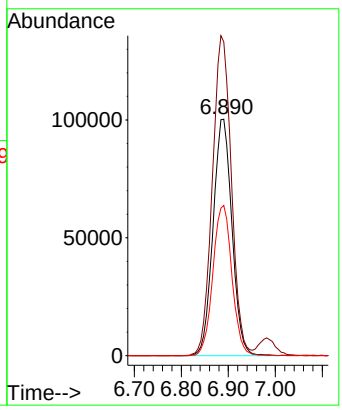


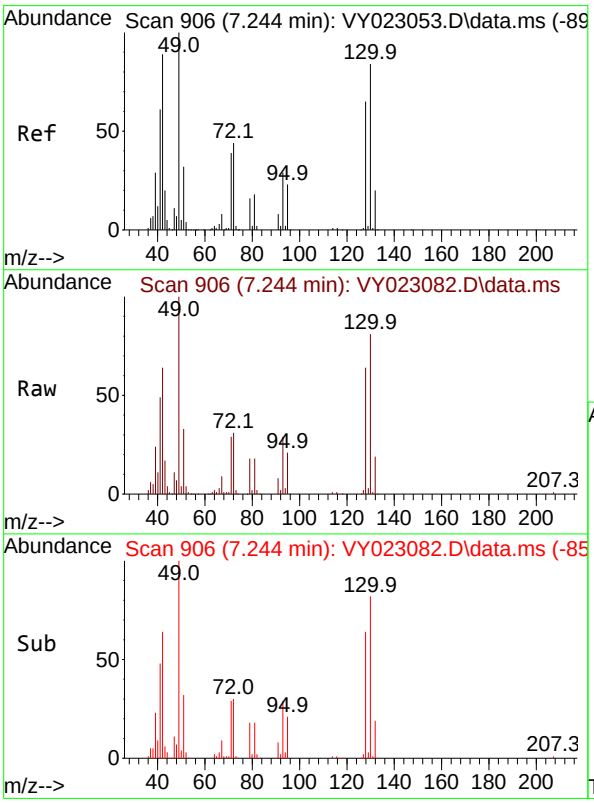

#27
cis-1,2-Dichloroethene
Concen: 50.561 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 96 Resp: 280376

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 135.8 | 0.0 | 278.6 |
| 98 | 63.9 | 0.0 | 130.4 |

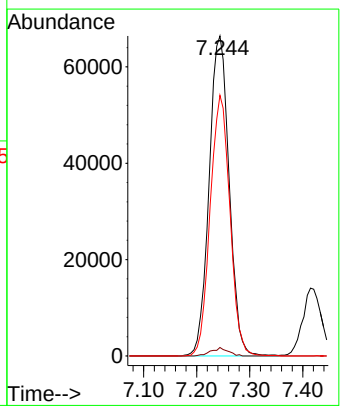


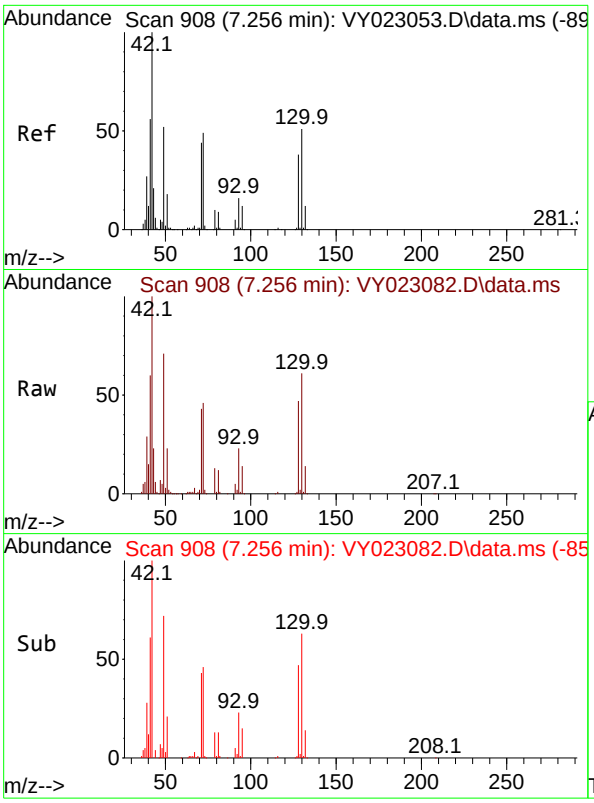




#28
Bromochloromethane
Concen: 52.662 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 49 Resp: 174333

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.2 | 0.0 | 4.2 |
| 130 | 80.2 | 66.4 | 99.6 |



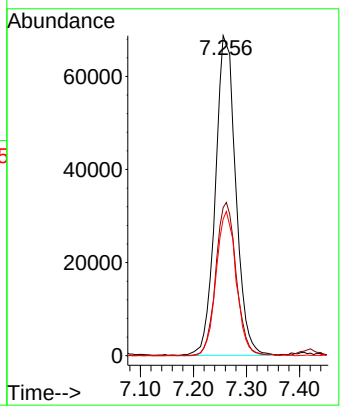


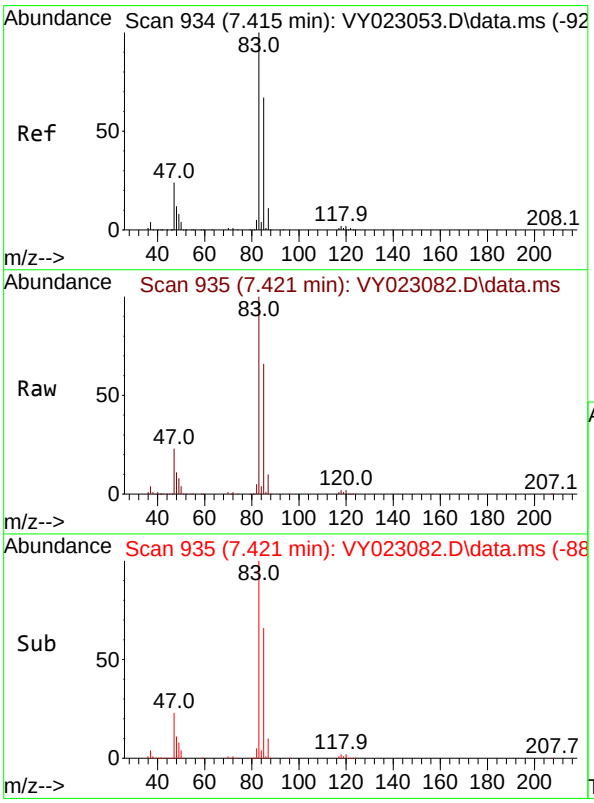

#29
Tetrahydrofuran
Concen: 238.509 ug/l
RT: 7.256 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 42 Resp: 183892

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 47.8 | 39.4 | 59.2 |
| 71 | 44.6 | 36.5 | 54.7 |

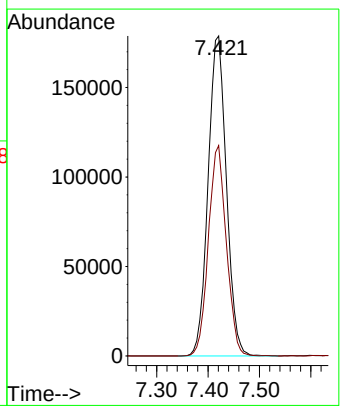


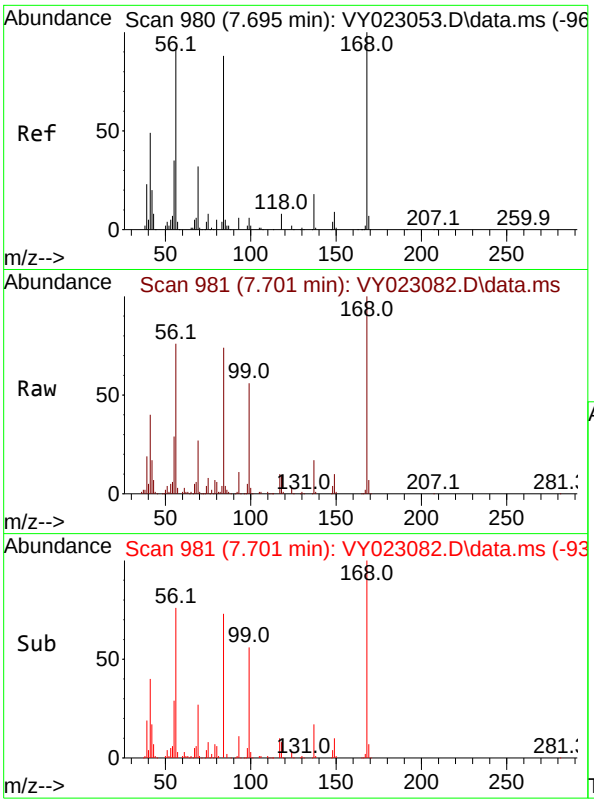




#30
Chloroform
Concen: 51.354 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 83 Resp: 441927

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.7 | 53.8 | 80.8 |



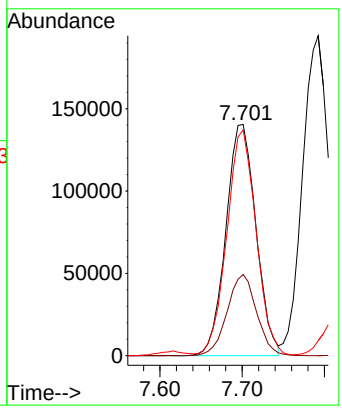


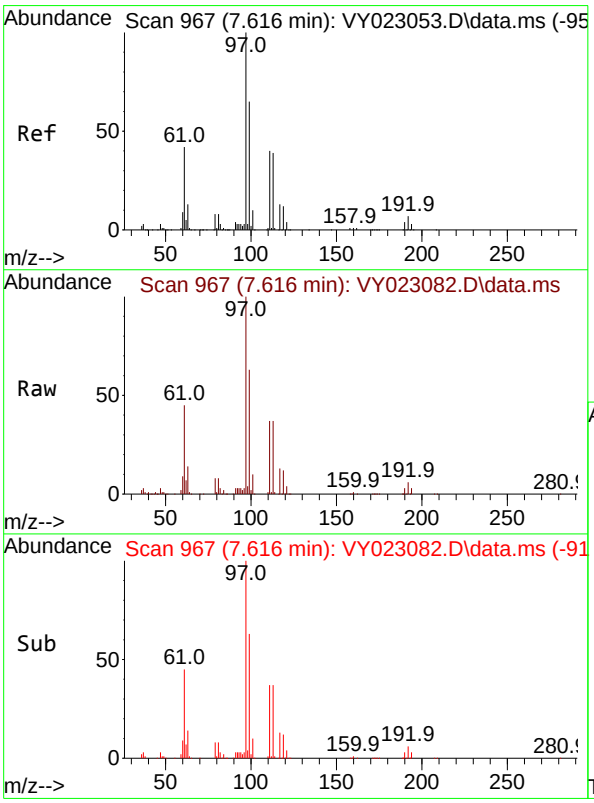

#31
Cyclohexane
Concen: 45.365 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 56 Resp: 356707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 35.1 | 28.2 | 42.2 |
| 84 | 96.1 | 76.6 | 114.8 |

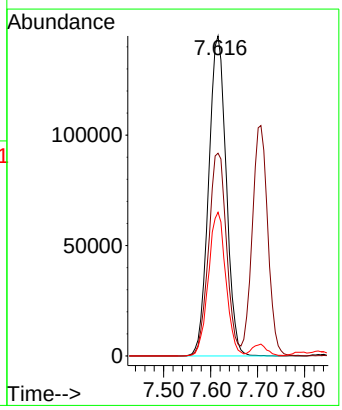


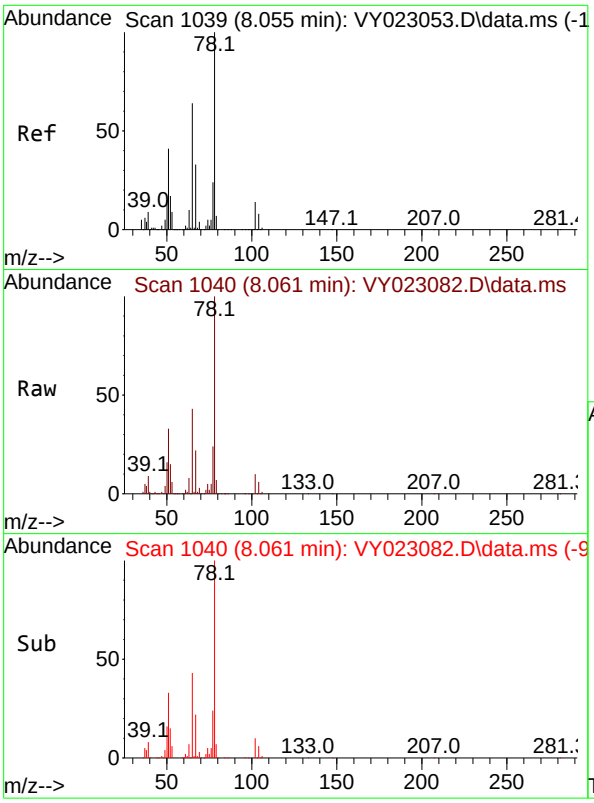




#32
1,1,1-Trichloroethane
Concen: 49.325 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 97 Resp: 376634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.8 | 51.6 | 77.4 |
| 61 | 44.6 | 34.2 | 51.2 |



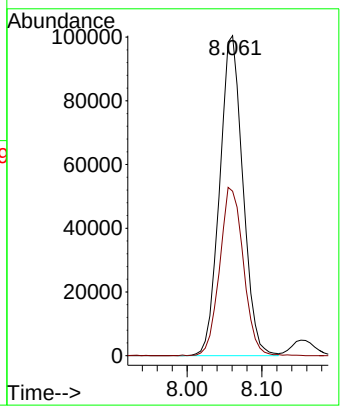


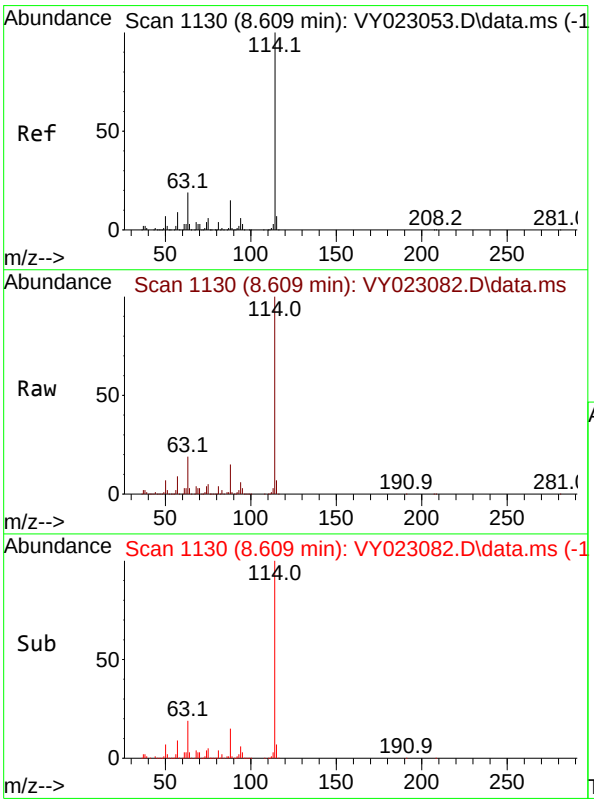

#33
1,2-Dichloroethane-d4
Concen: 51.443 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 65 Resp: 217167

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.7 | 0.0 | 106.8 |

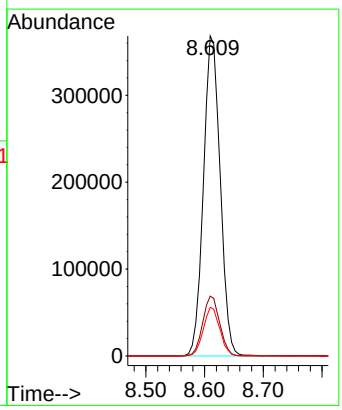


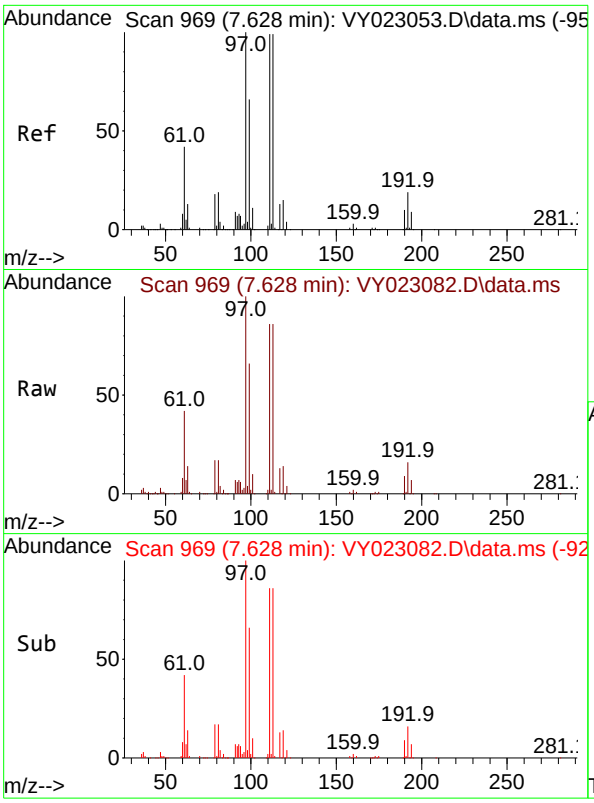




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:114 Resp: 730611

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.7 | 0.0 | 38.4 |
| 88 | 15.2 | 0.0 | 30.0 |



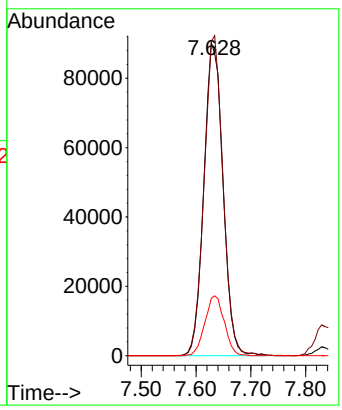


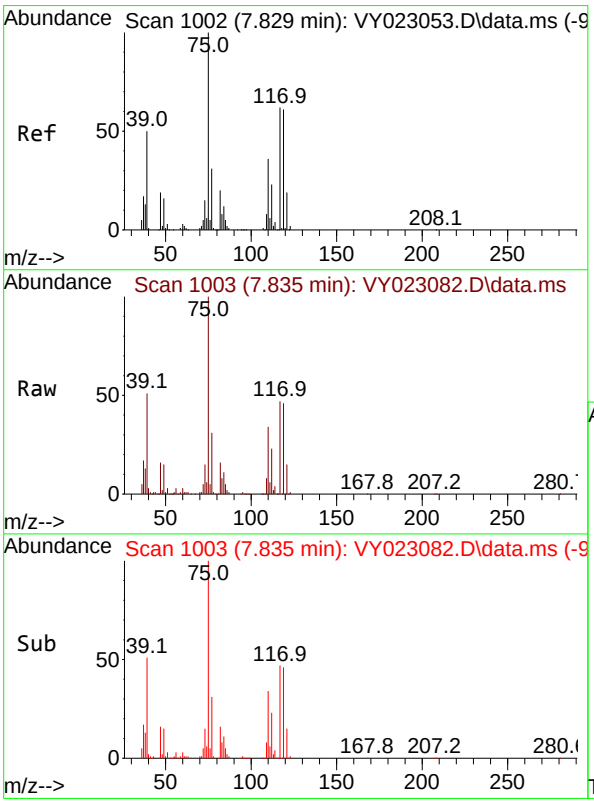

#35
Dibromofluoromethane
Concen: 49.874 ug/l
RT: 7.628 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:113 Resp: 218038

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.4 | 81.1 | 121.7 |
| 192 | 19.4 | 16.2 | 24.4 |

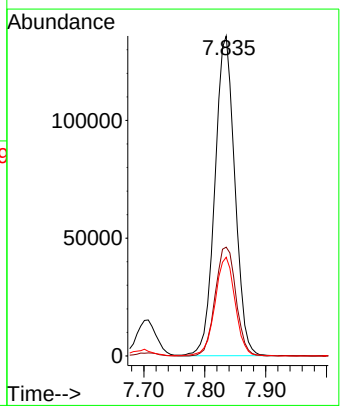


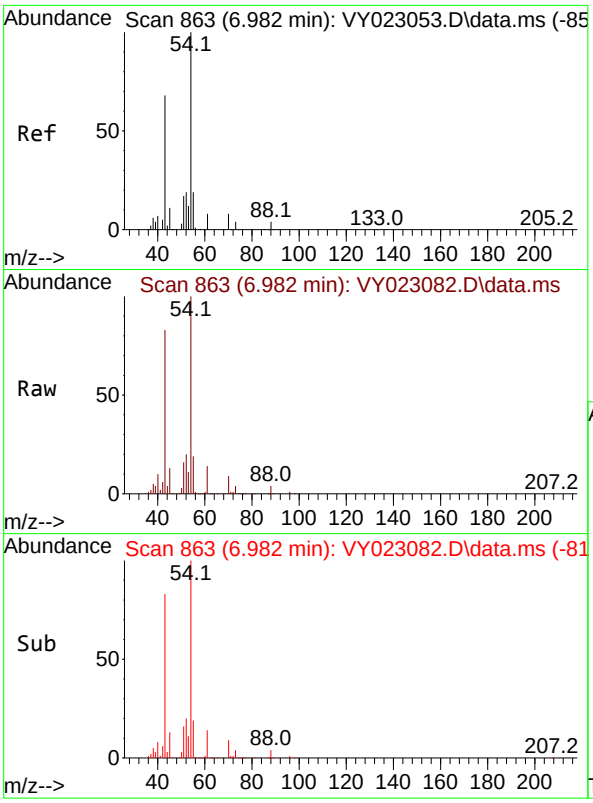




#36
1,1-Dichloropropene
Concen: 47.457 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 75 Resp: 308332

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.6 | 18.1 | 54.4 |
| 77 | 31.3 | 24.6 | 37.0 |



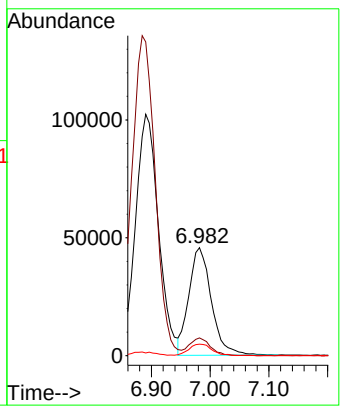


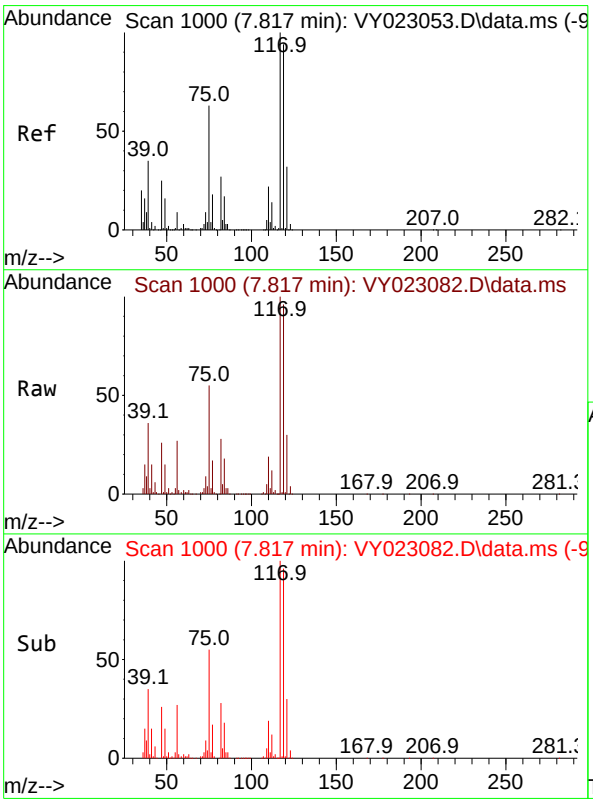

#37
Ethyl Acetate
Concen: 44.531 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 43 Resp: 121535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.8 | 11.9 | 17.9 |
| 70 | 11.1 | 8.8 | 13.2 |

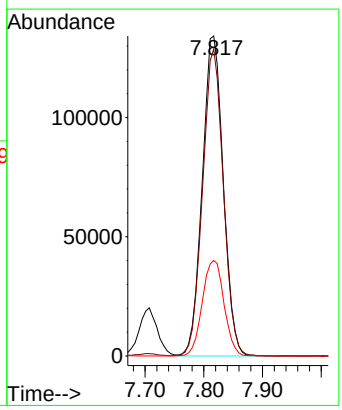


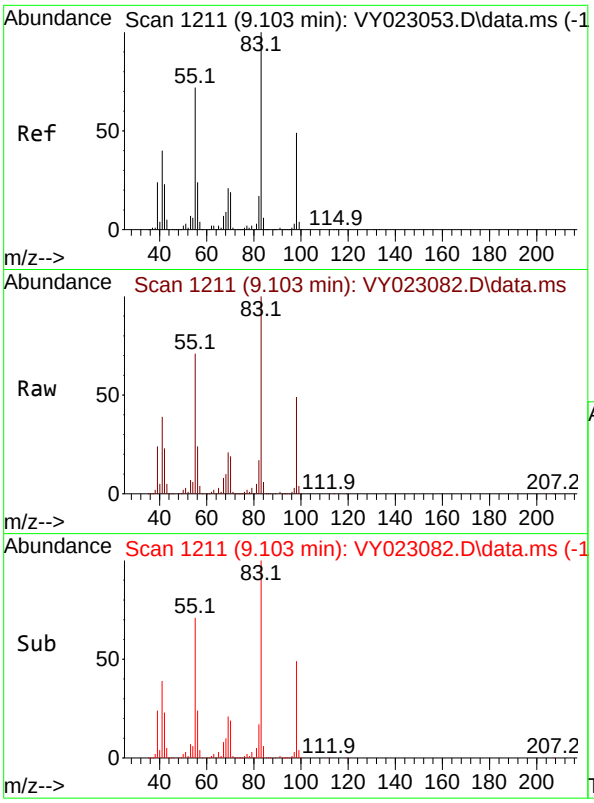




#38
Carbon Tetrachloride
Concen: 47.191 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:117 Resp: 333012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.9 | 75.6 | 113.4 |
| 121 | 29.9 | 25.8 | 38.8 |



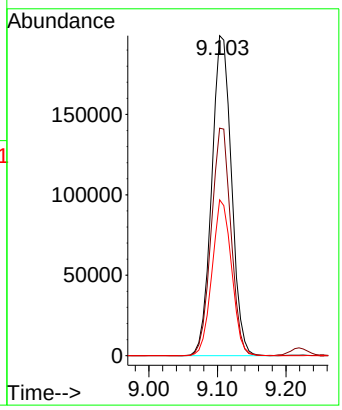


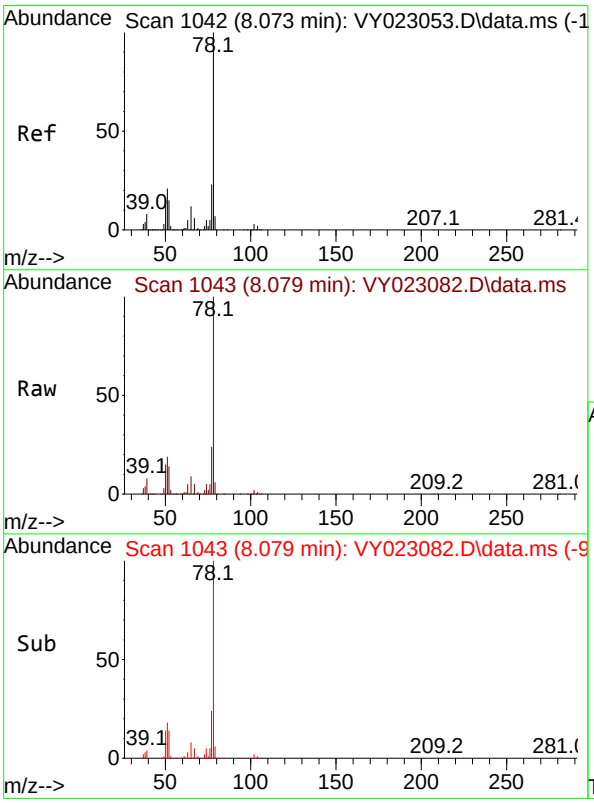

#39
Methylcyclohexane
Concen: 46.461 ug/l
RT: 9.103 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 83 Resp: 397504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 71.1 | 57.6 | 86.4 |
| 98 | 48.7 | 39.2 | 58.8 |

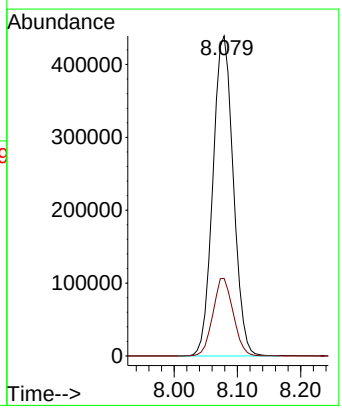


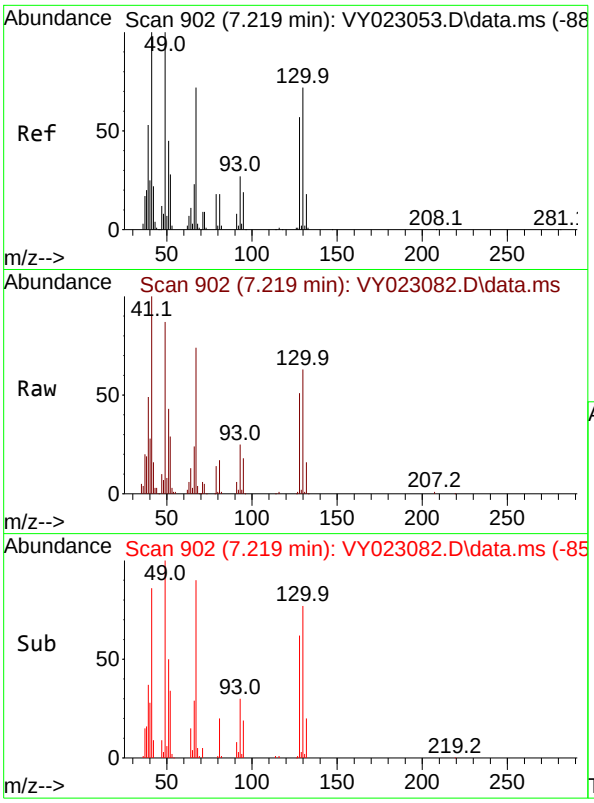




#40
Benzene
Concen: 49.159 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 78 Resp: 984401

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.3 | 18.6 | 28.0 |



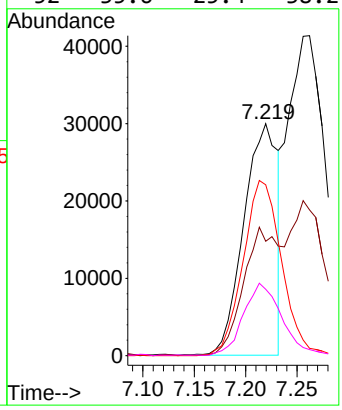


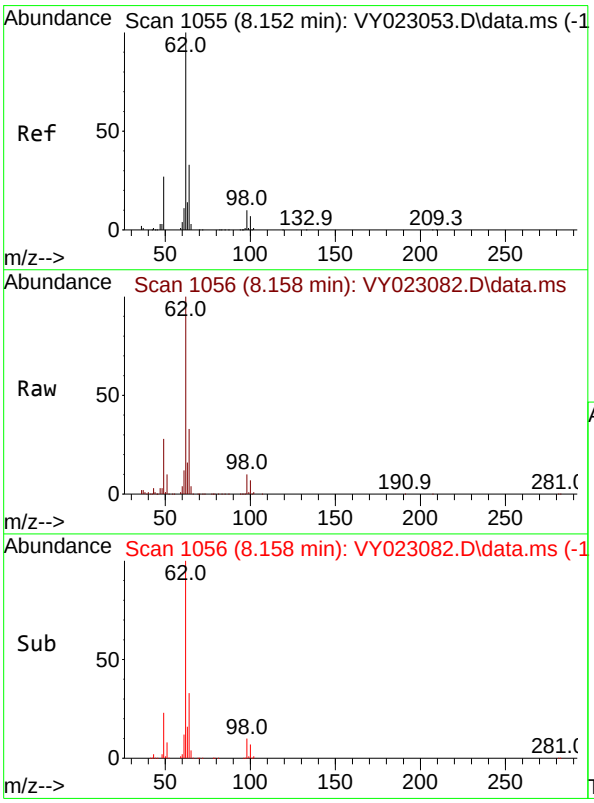

#41
Methacrylonitrile
Concen: 43.571 ug/l
RT: 7.219 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 41 Resp: 68628

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 62.4 | 43.4 | 65.2 |
| 67 | 86.2 | 63.6 | 95.4 |
| 52 | 35.6 | 25.4 | 38.2 |

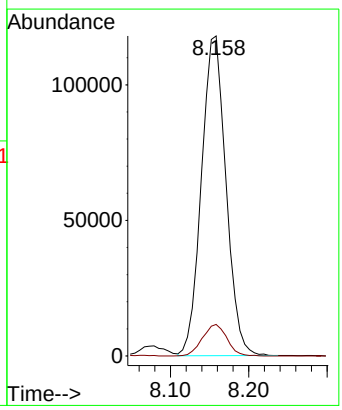


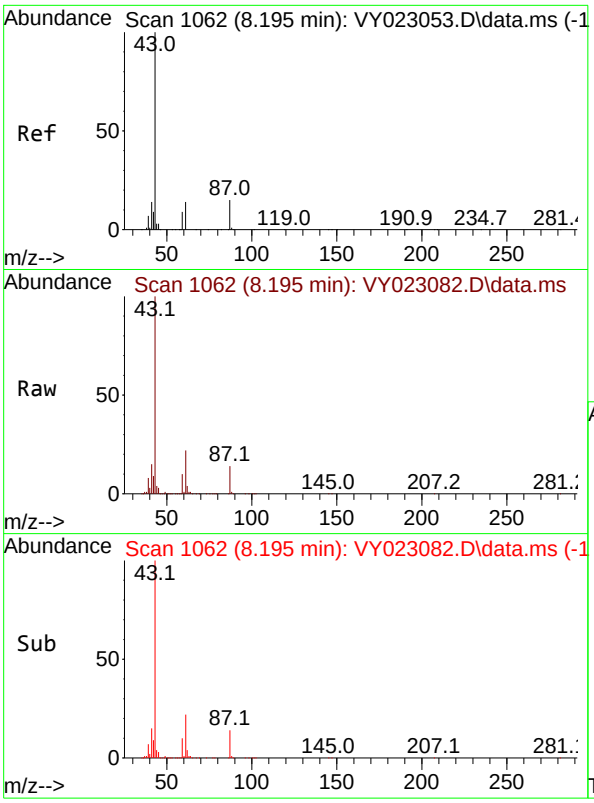




#42
1,2-Dichloroethane
Concen: 49.294 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 62 Resp: 256723

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.8 | 0.0 | 20.6 |



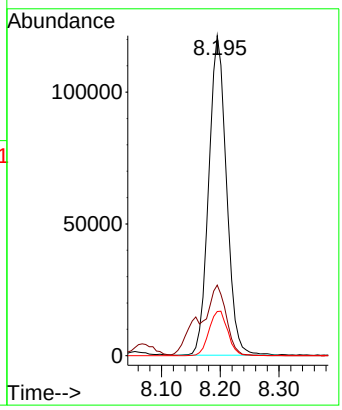


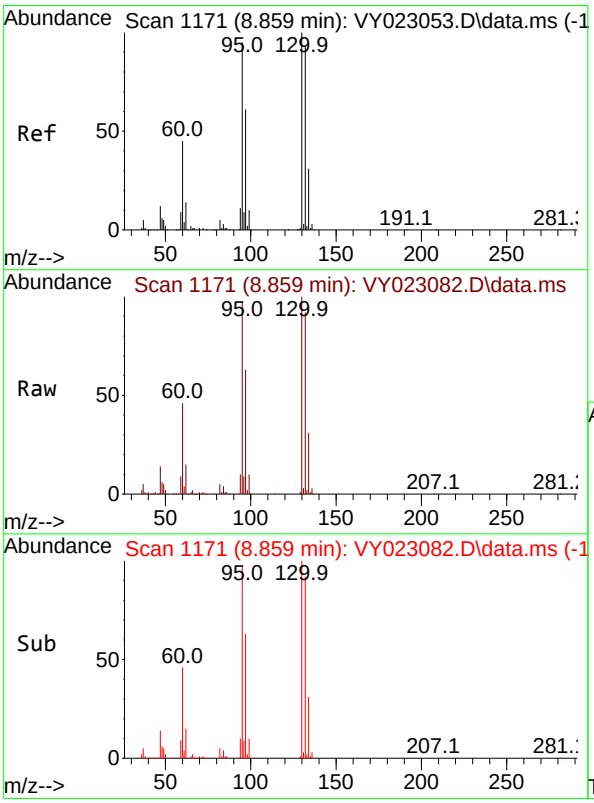

#43
Isopropyl Acetate
Concen: 46.064 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 43 Resp: 254100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 21.8 | 16.4 | 24.6 |
| 87 | 14.7 | 11.8 | 17.6 |

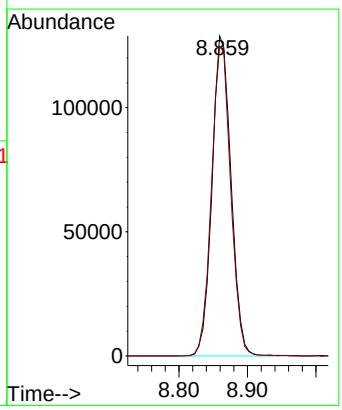


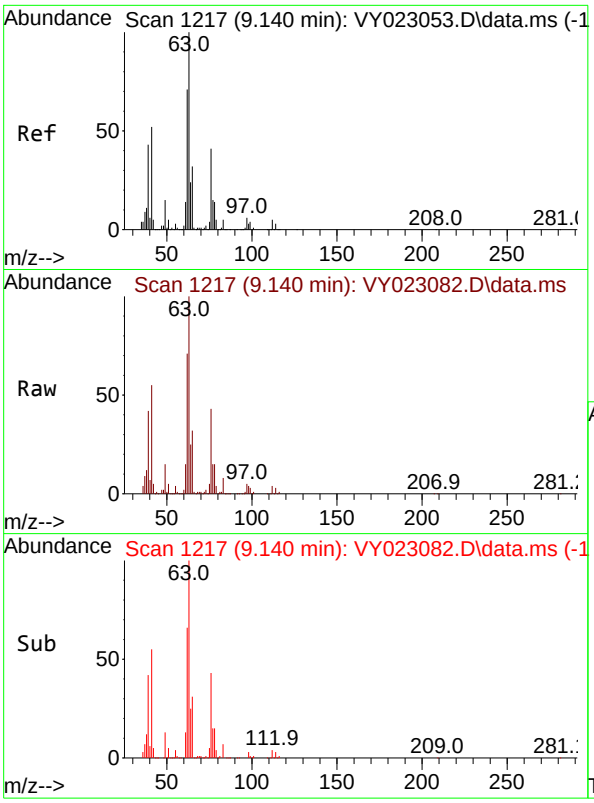




#44
Trichloroethene
Concen: 47.865 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:130 Resp: 247693

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 96.7 | 0.0 | 190.2 |



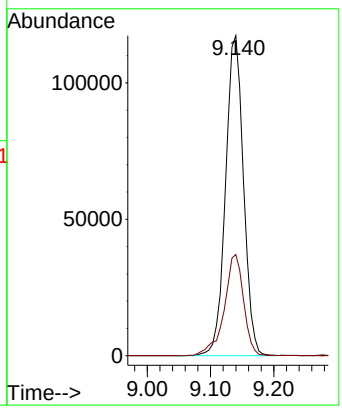


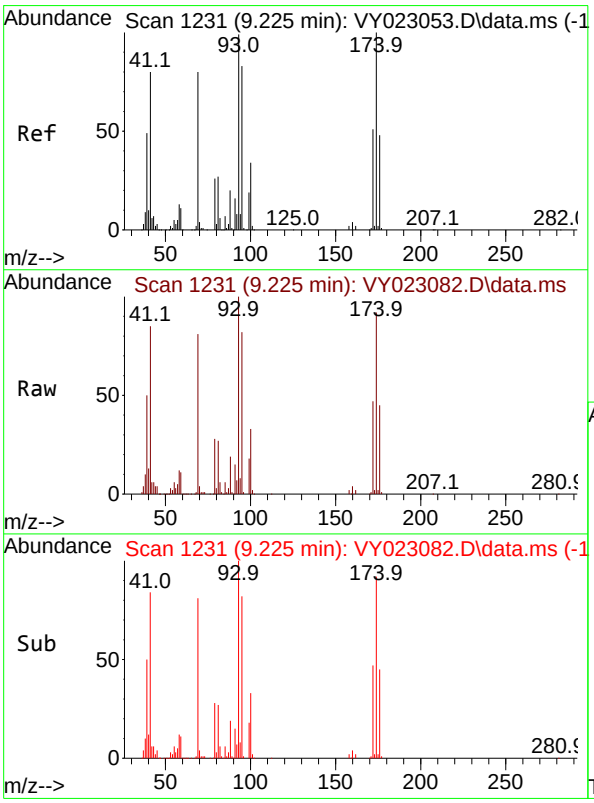

#45
1,2-Dichloropropane
Concen: 50.153 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 63 Resp: 231080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.6 | 25.3 | 37.9 |

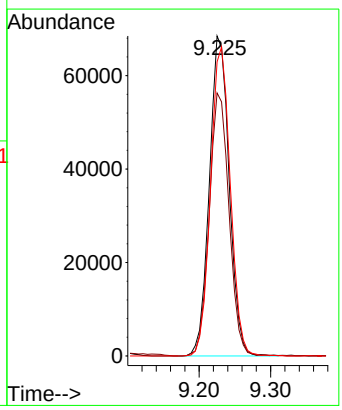


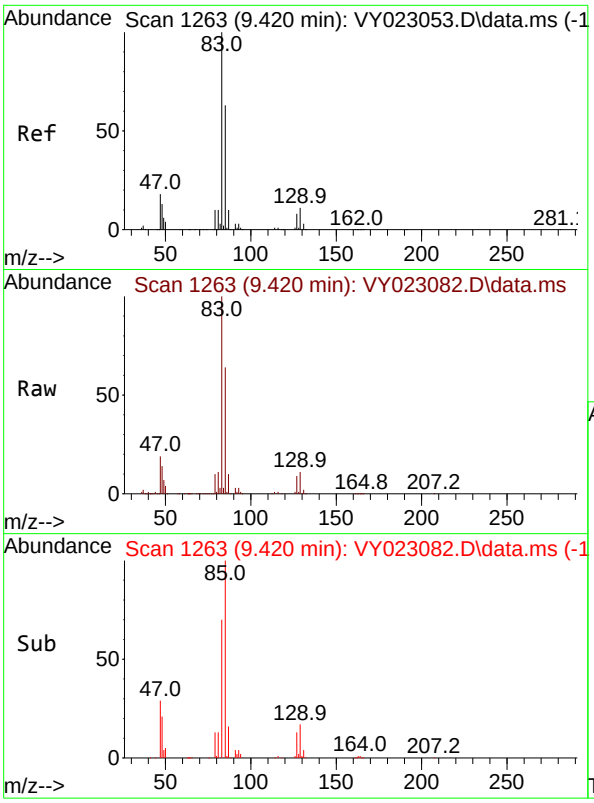




#46
Dibromomethane
Concen: 49.874 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 93 Resp: 131895

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 81.9 | 66.5 | 99.7 |
| 174 | 96.5 | 81.8 | 122.8 |



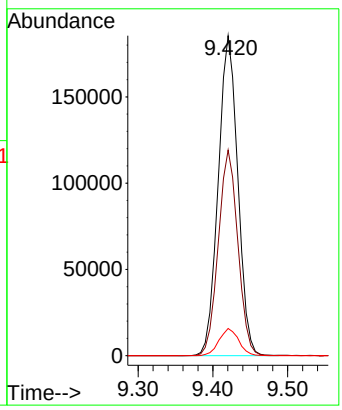


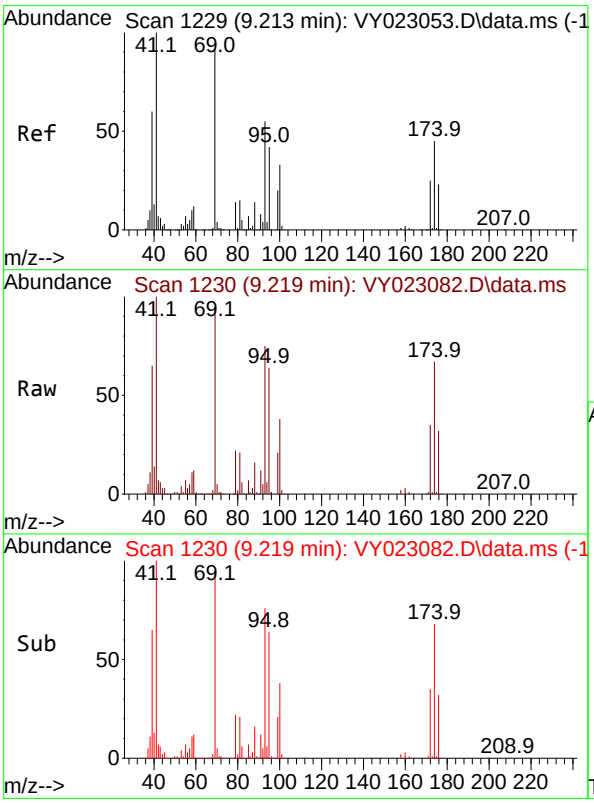

#47
Bromodichloromethane
Concen: 49.561 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 83 Resp: 337254

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.3 | 50.2 | 75.4 |
| 127 | 8.5 | 6.6 | 10.0 |

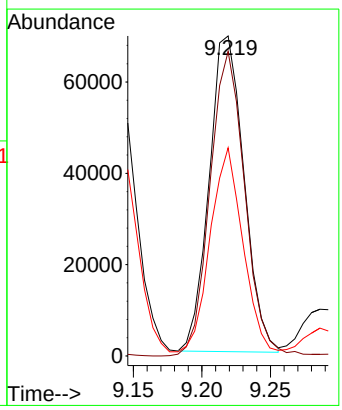


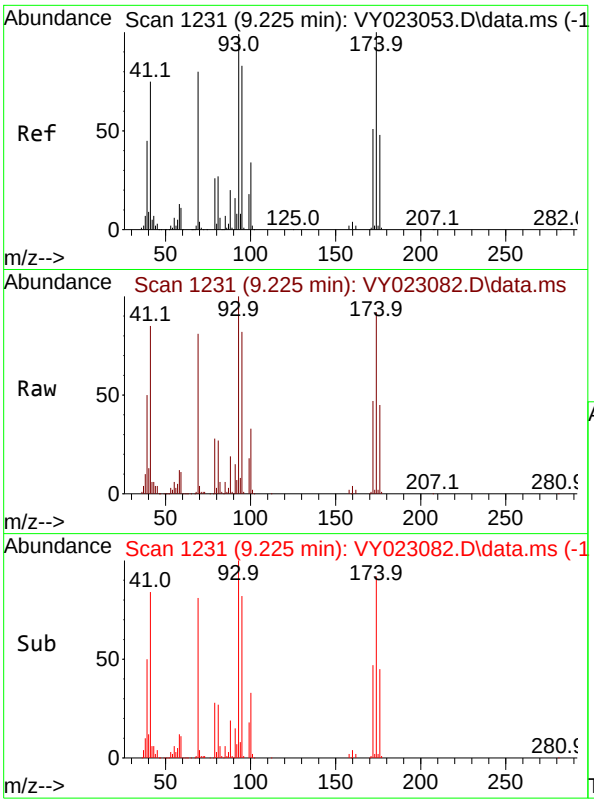




#48
Methyl methacrylate
Concen: 46.388 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 41 Resp: 122447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 96.6 | 73.2 | 109.8 |
| 39 | 60.4 | 47.0 | 70.4 |



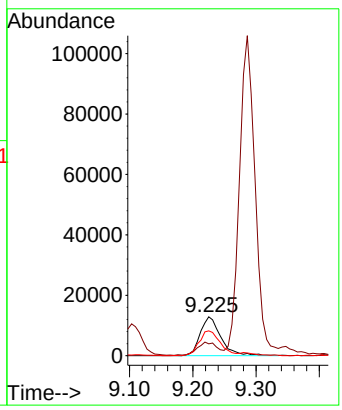


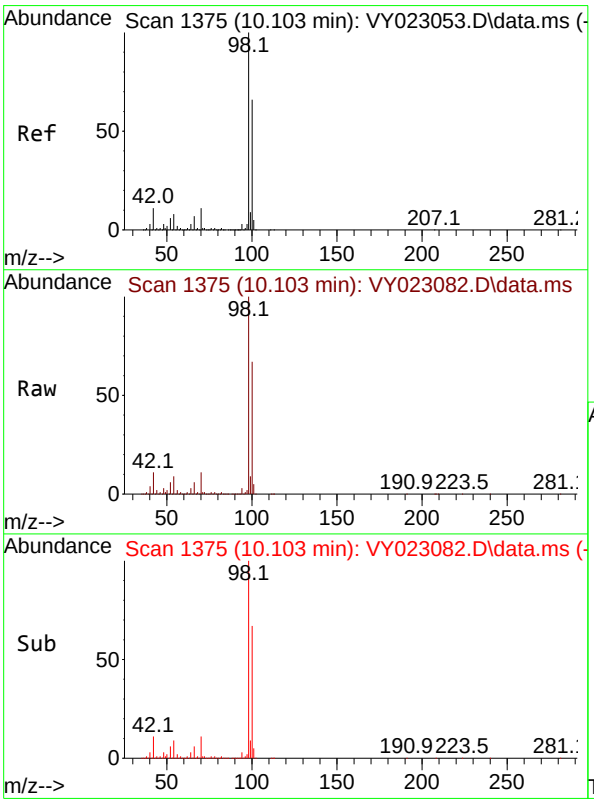

#49
1,4-Dioxane
Concen: 946.941 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 88 Resp: 29363

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 33.1 | 24.3 | 36.5 |
| 58 | 64.7 | 55.4 | 83.0 |

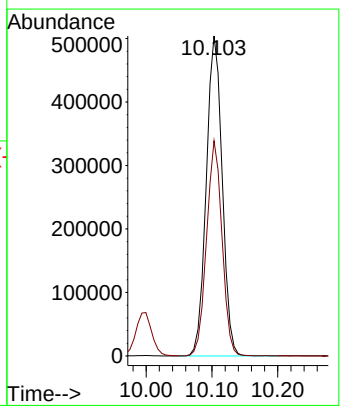


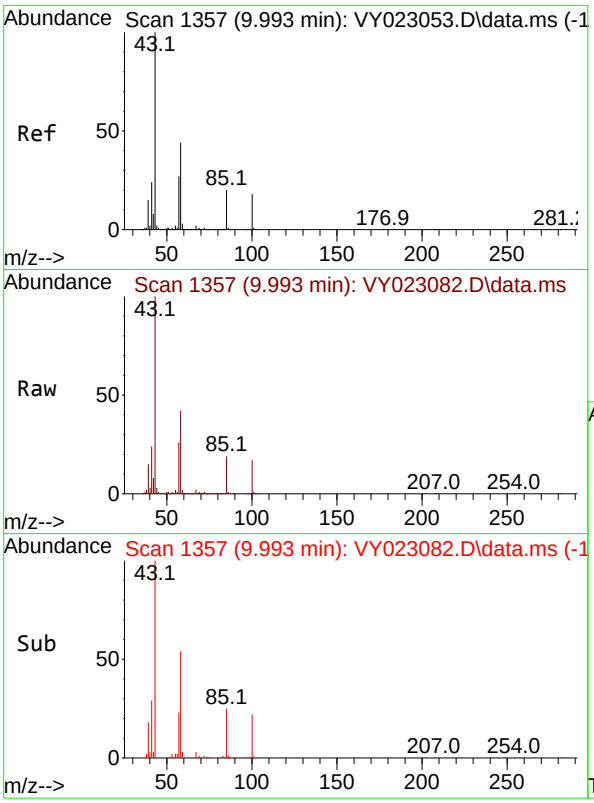




#50
Toluene-d8
Concen: 49.680 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 98 Resp: 848458

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.1 | 52.3 | 78.5 |



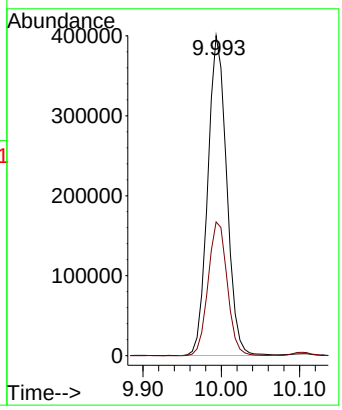


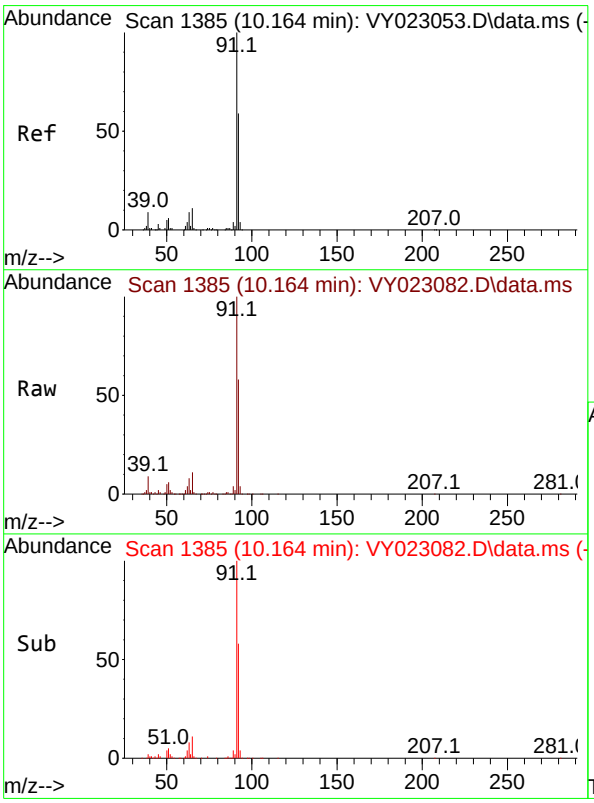

#51
4-Methyl-2-Pentanone
Concen: 235.707 ug/l
RT: 9.993 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 43 Resp: 670681

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 42.4 | 33.5 | 50.3 |

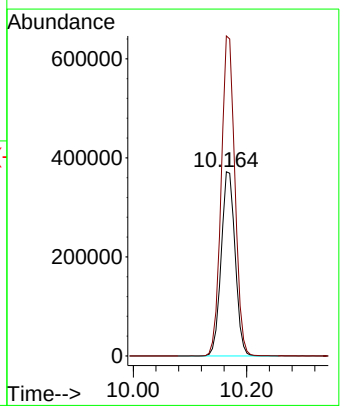


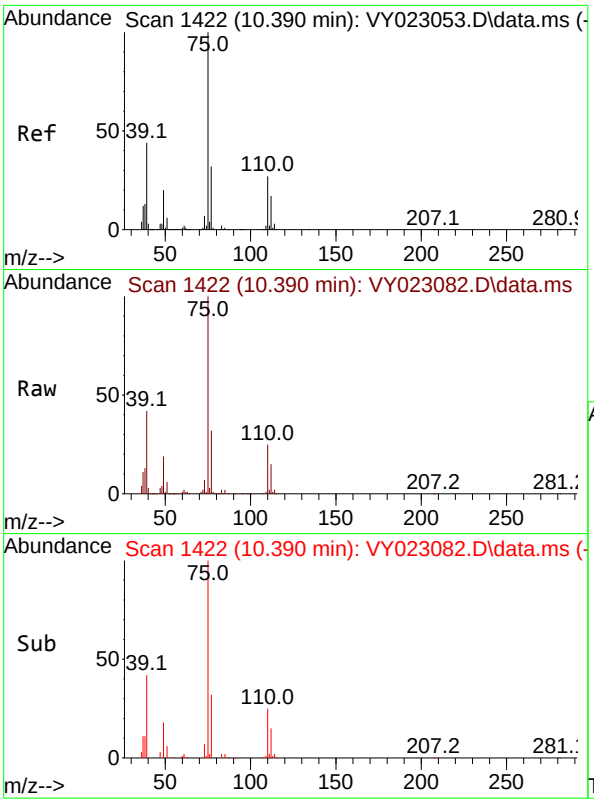




#52
Toluene
Concen: 49.890 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 92 Resp: 634517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 171.1 | 136.4 | 204.6 |



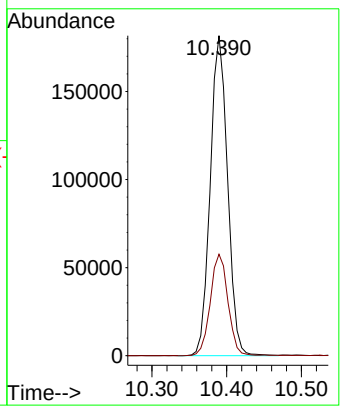


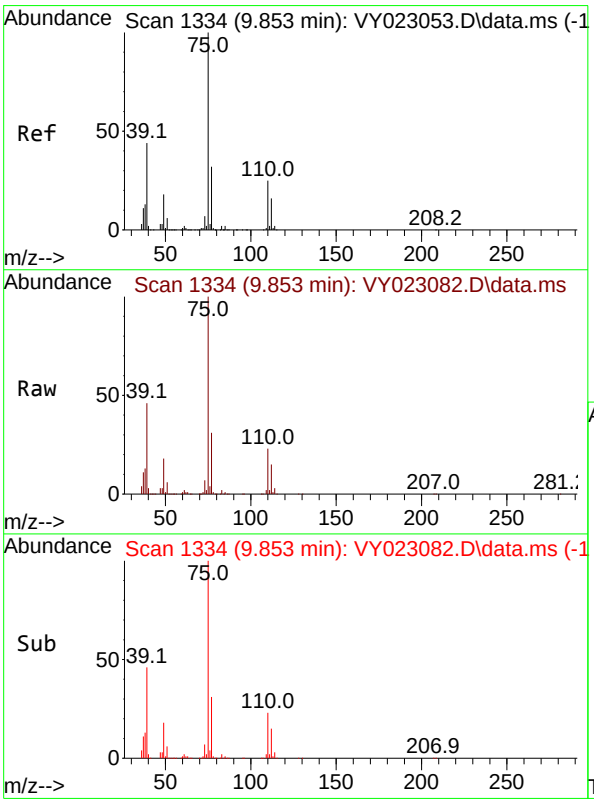

#53
t-1,3-Dichloropropene
Concen: 47.408 ug/l
RT: 10.390 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 75 Resp: 292128

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.7 | 25.7 | 38.5 |

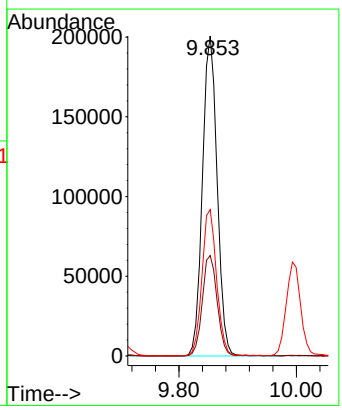


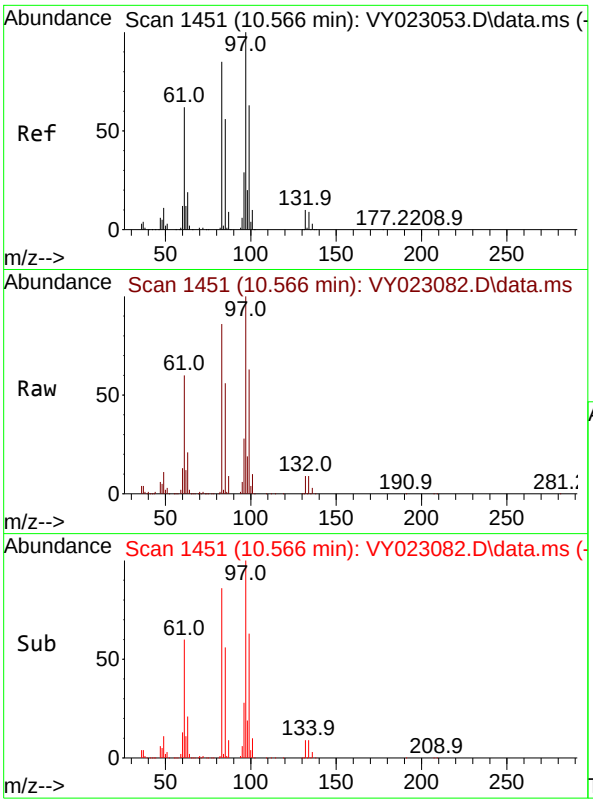




#54
cis-1,3-Dichloropropene
Concen: 47.881 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 75 Resp: 348886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.4 | 25.4 | 38.0 |
| 39 | 45.7 | 35.6 | 53.4 |



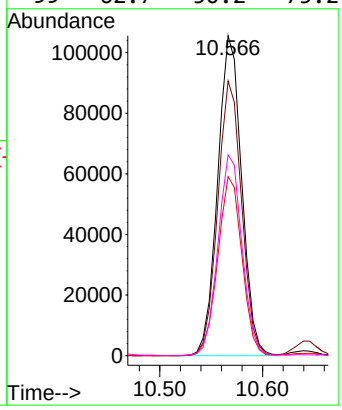


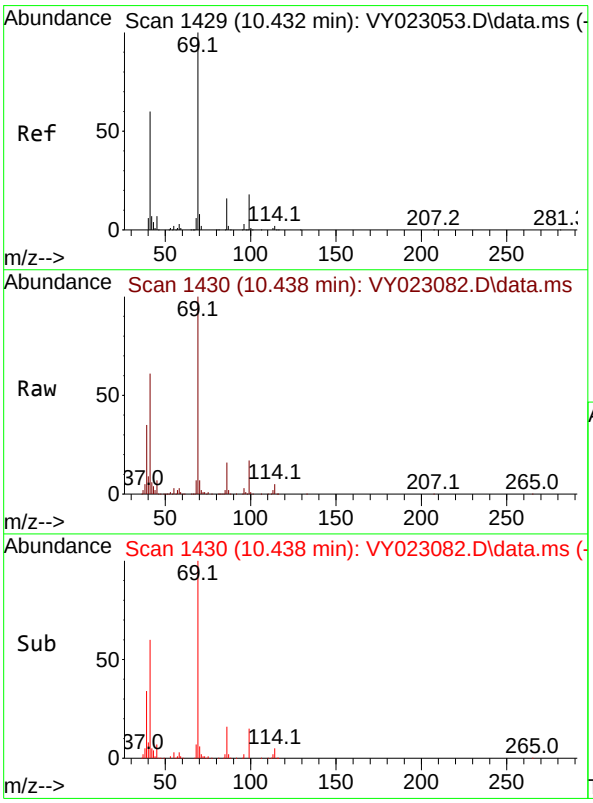

#55
1,1,2-Trichloroethane
Concen: 48.399 ug/l
RT: 10.566 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 97 Resp: 171270

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 85.9 | 67.7 | 101.5 |
| 85 | 55.9 | 44.5 | 66.7 |
| 99 | 62.7 | 50.2 | 75.2 |

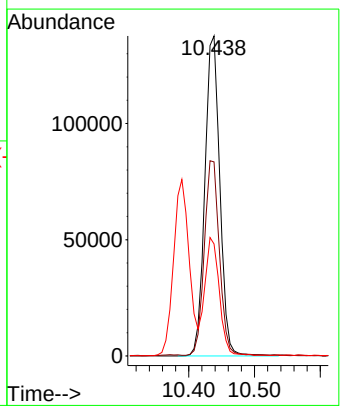


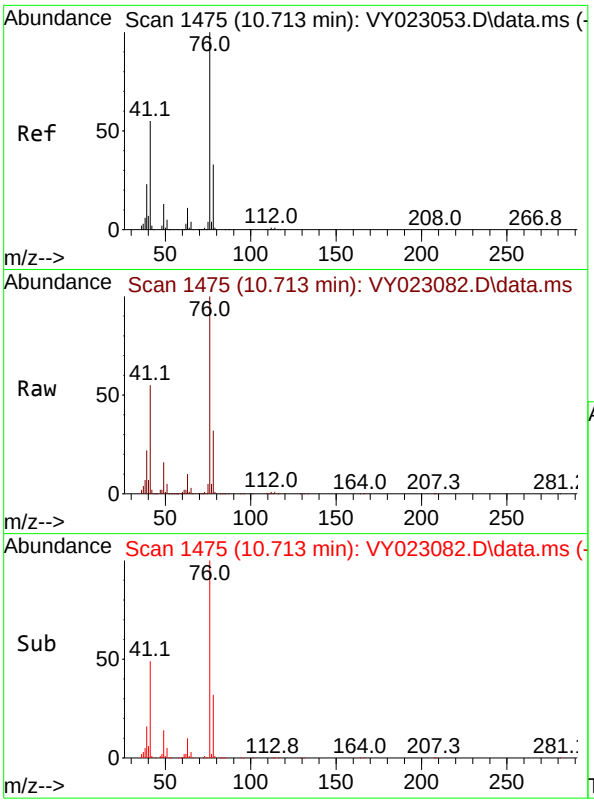




#56
Ethyl methacrylate
Concen: 48.164 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 69 Resp: 218091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 61.3 | 48.6 | 72.8 |
| 39 | 35.8 | 27.0 | 40.4 |



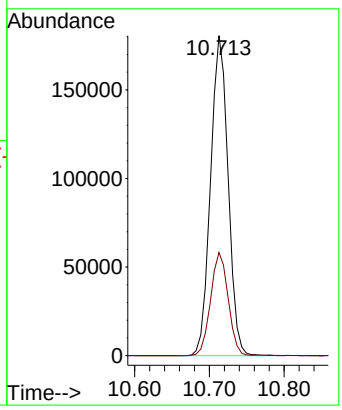


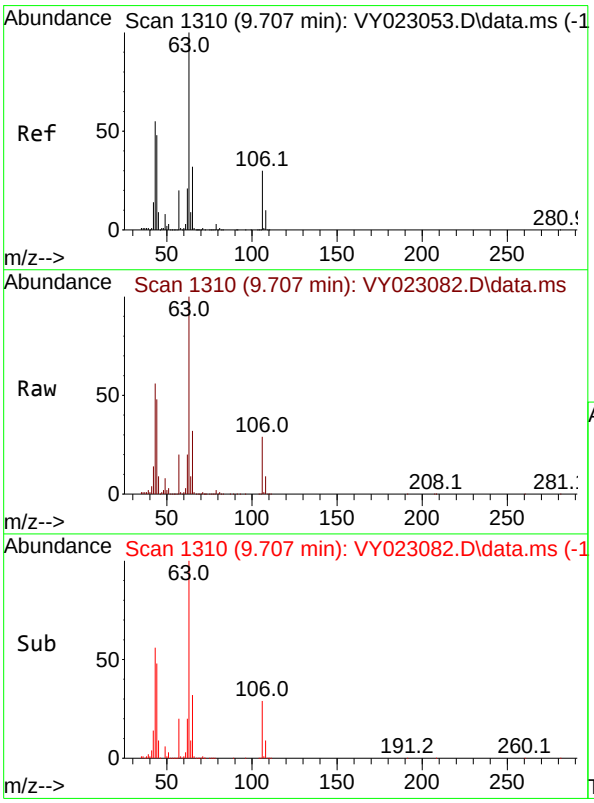

#57
1,3-Dichloropropane
Concen: 49.039 ug/l
RT: 10.713 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 76 Resp: 294300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.4 | 26.0 | 39.0 |

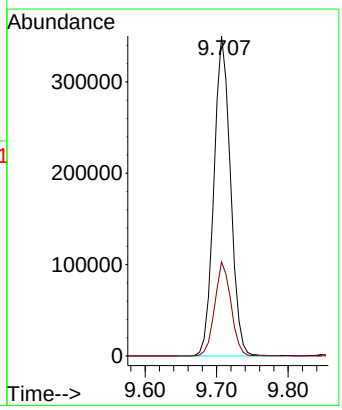


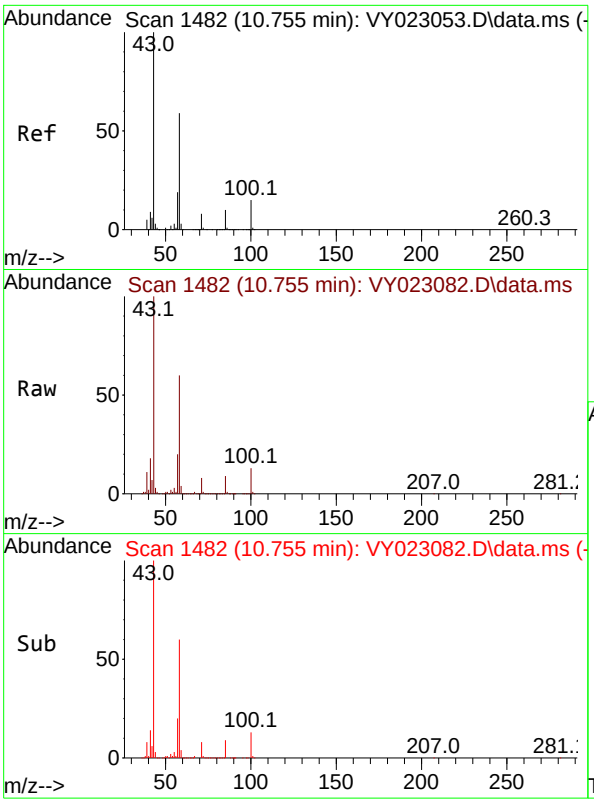




#58
2-Chloroethyl Vinyl ether
Concen: 263.718 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 63 Resp: 563277

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 28.8 | 23.2 | 34.8 |



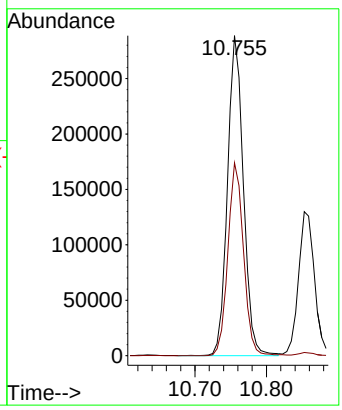


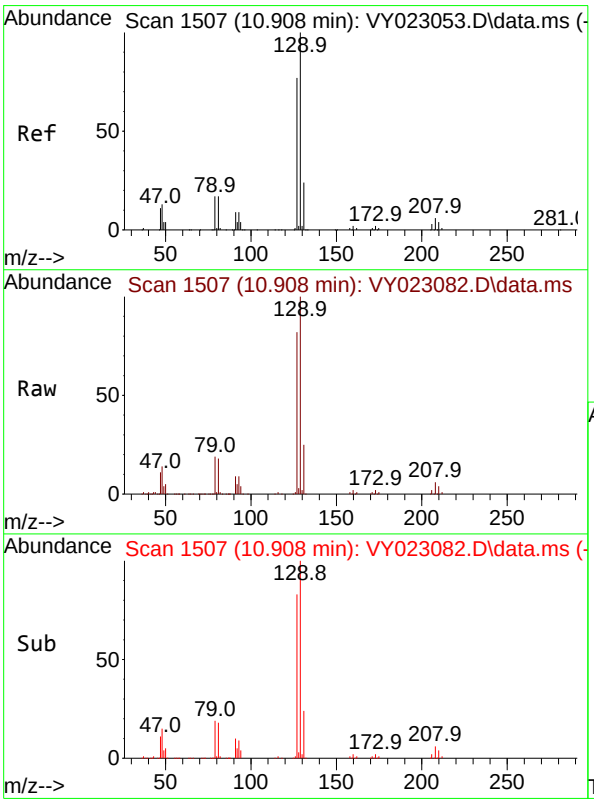

#59
2-Hexanone
Concen: 229.542 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 43 Resp: 444743

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 59.4 | 29.5 | 88.5 |

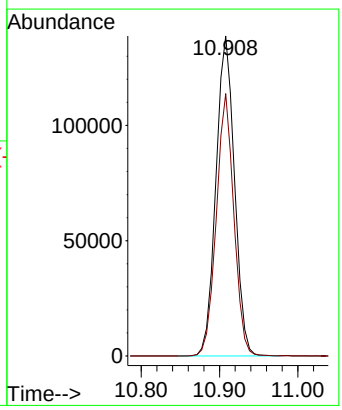


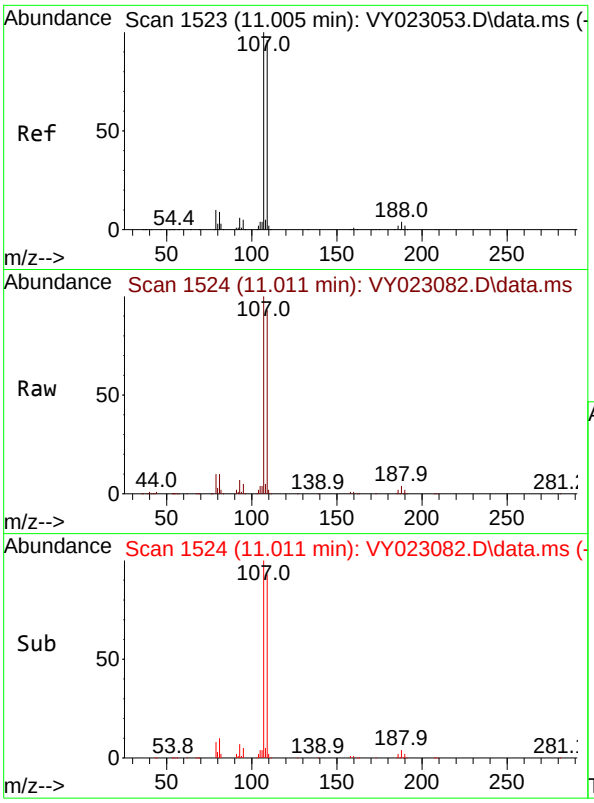




#60
Dibromochloromethane
Concen: 48.956 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:129 Resp: 228588

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.7 | 38.5 | 115.5 |



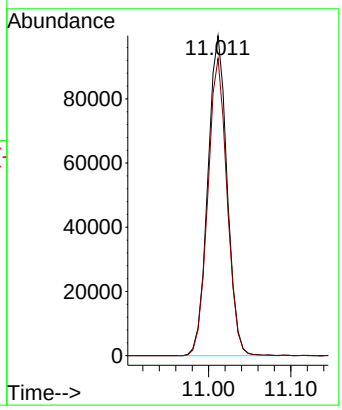


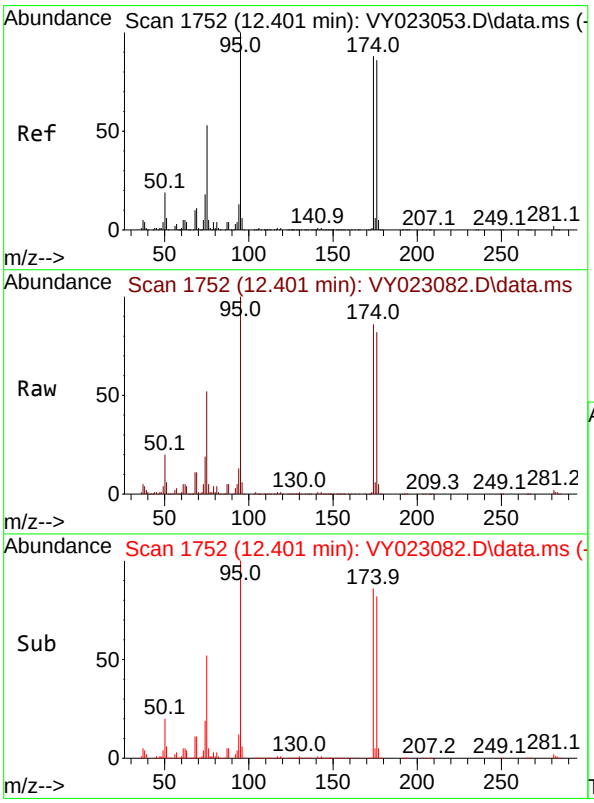

#61
1,2-Dibromoethane
Concen: 48.817 ug/l
RT: 11.011 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:107 Resp: 162363

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 92.4 | 75.6 | 113.4 |

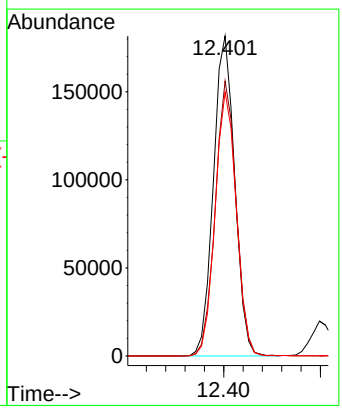


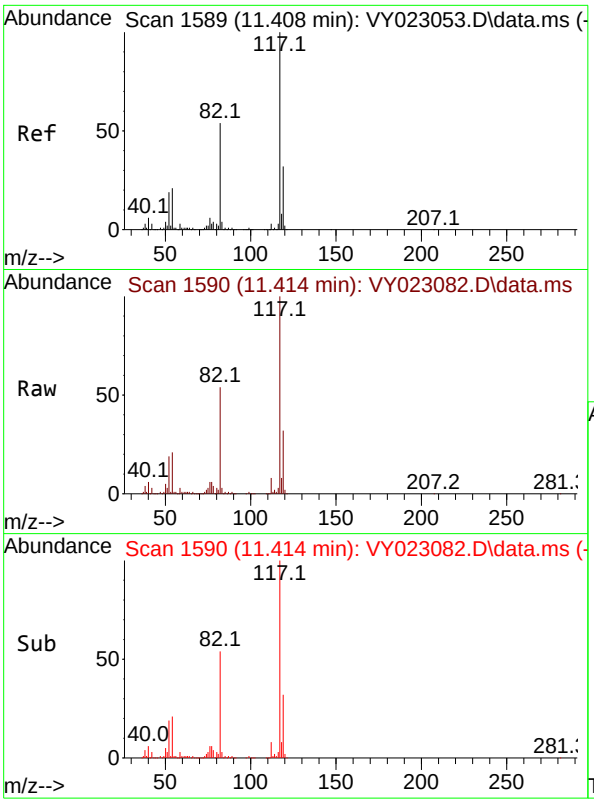




#62
4-Bromofluorobenzene
Concen: 50.453 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 95 Resp: 277110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 84.6 | 0.0 | 171.6 |
| 176 | 82.0 | 0.0 | 167.6 |



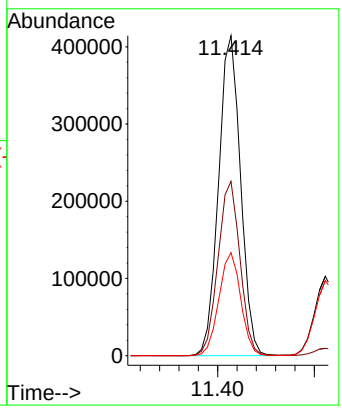


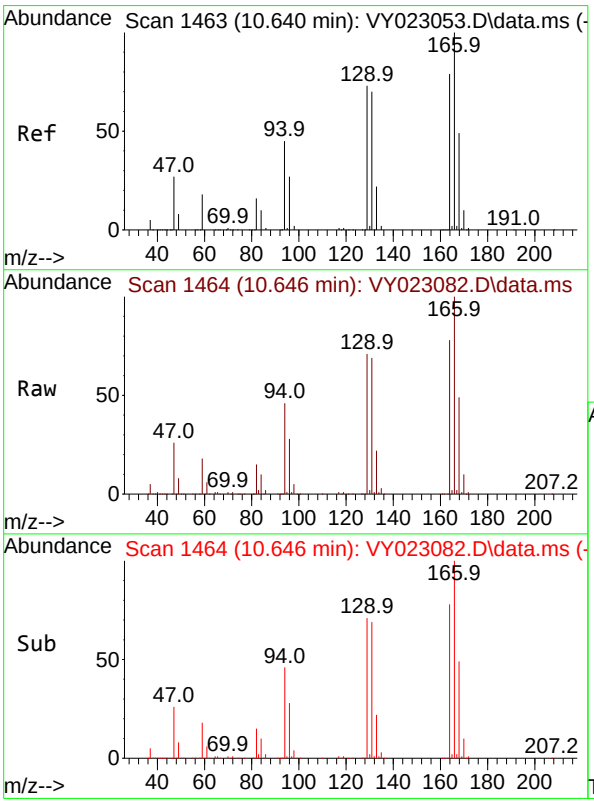

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:117 Resp: 653170

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.4 | 43.4 | 65.0 |
| 119 | 32.2 | 25.6 | 38.4 |

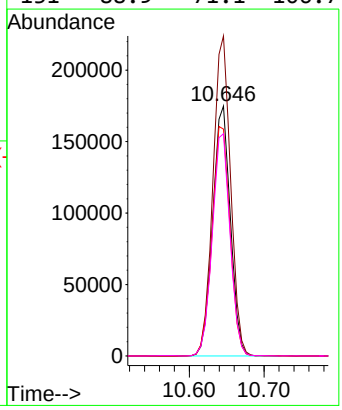


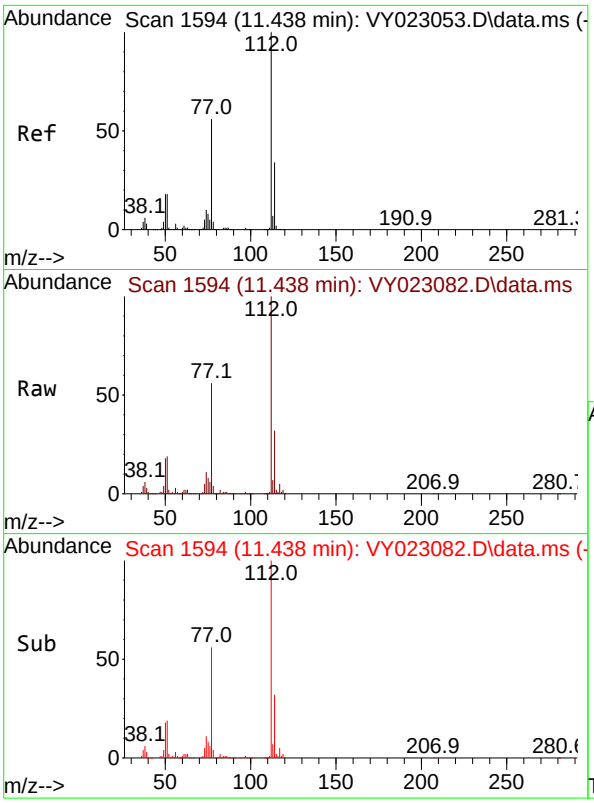




#64
Tetrachloroethene
Concen: 49.476 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:164 Resp: 288562

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 128.1 | 101.1 | 151.7 |
| 129 | 90.8 | 74.0 | 111.0 |
| 131 | 88.9 | 71.1 | 106.7 |



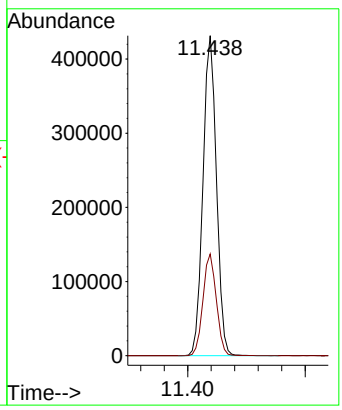


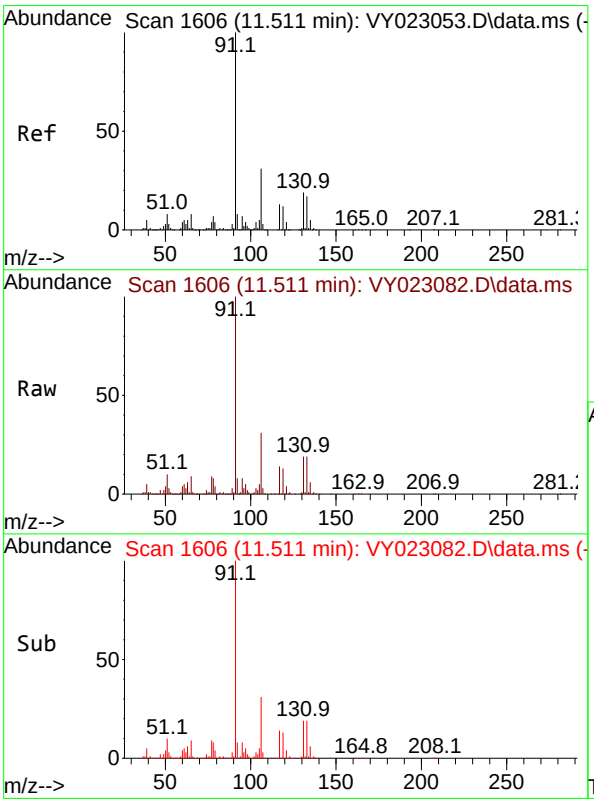

#65
Chlorobenzene
Concen: 48.595 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:112 Resp: 684648

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.8 | 27.0 | 40.4 |

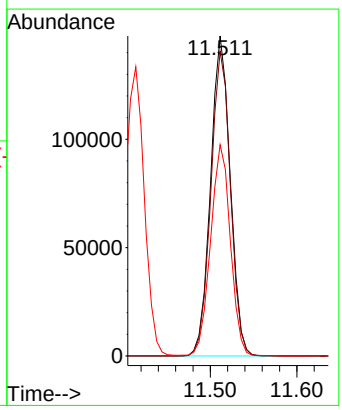


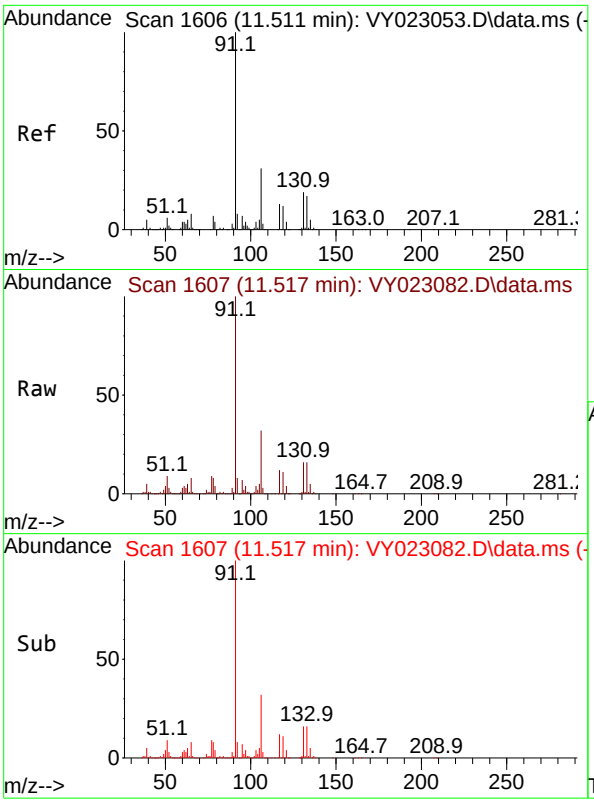




#66
1,1,1,2-Tetrachloroethane
Concen: 48.615 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:131 Resp: 232459

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.0 | 46.9 | 140.6 |
| 119 | 66.7 | 33.2 | 99.6 |



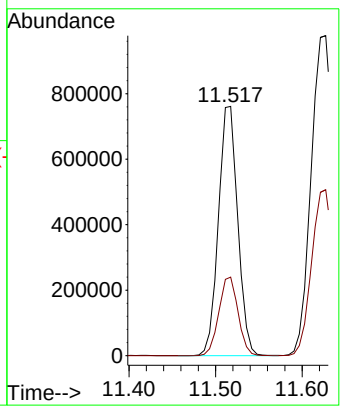


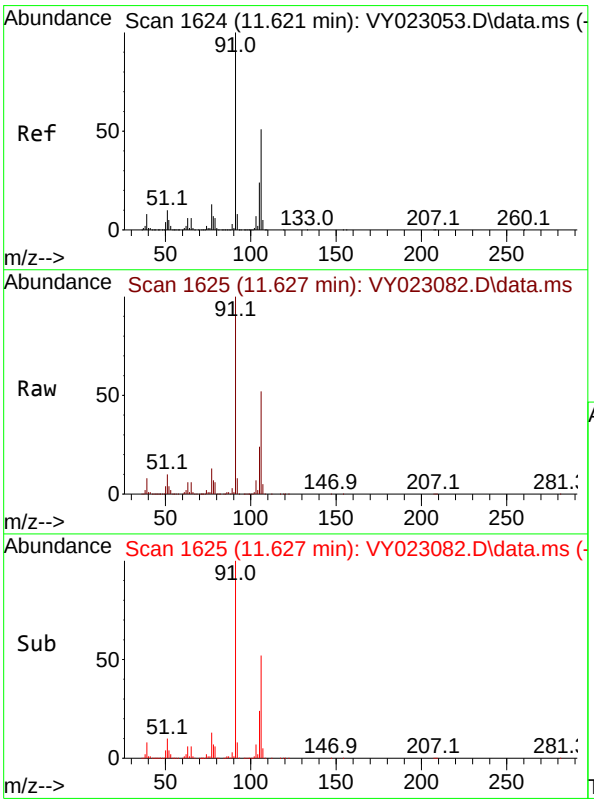

#67
Ethyl Benzene
Concen: 48.633 ug/l
RT: 11.517 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 91 Resp: 1179134

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.5 | 25.0 | 37.4 |

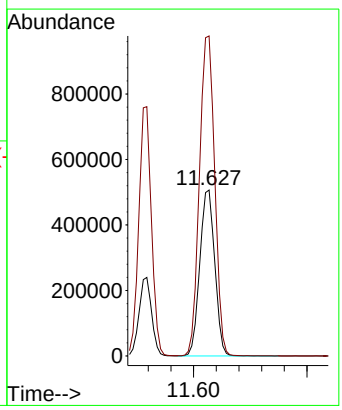


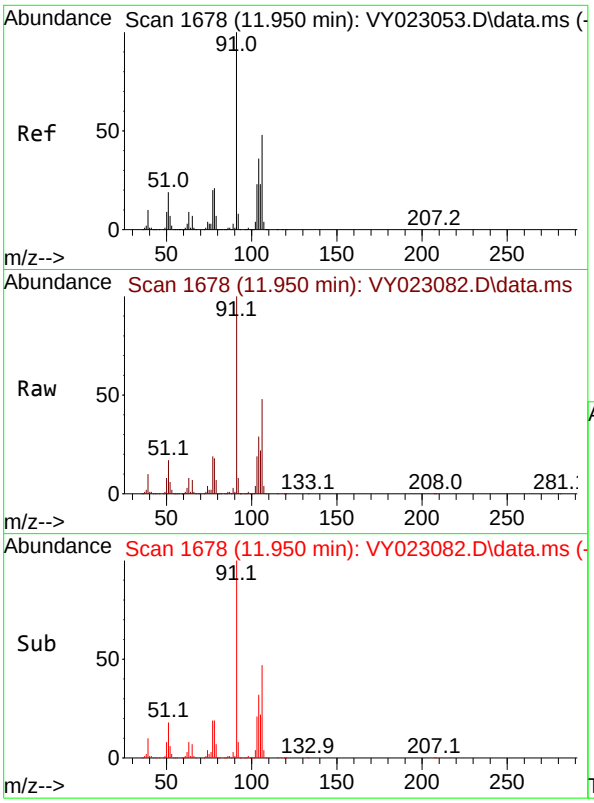




#68
m/p-Xylenes
Concen: 98.062 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:106 Resp: 928592

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 197.0 | 158.6 | 238.0 |



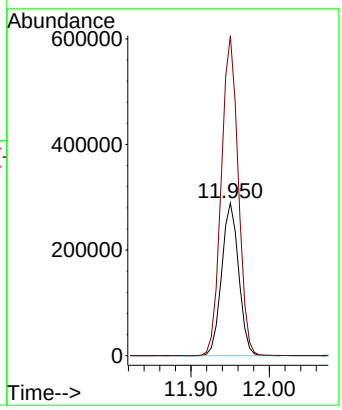


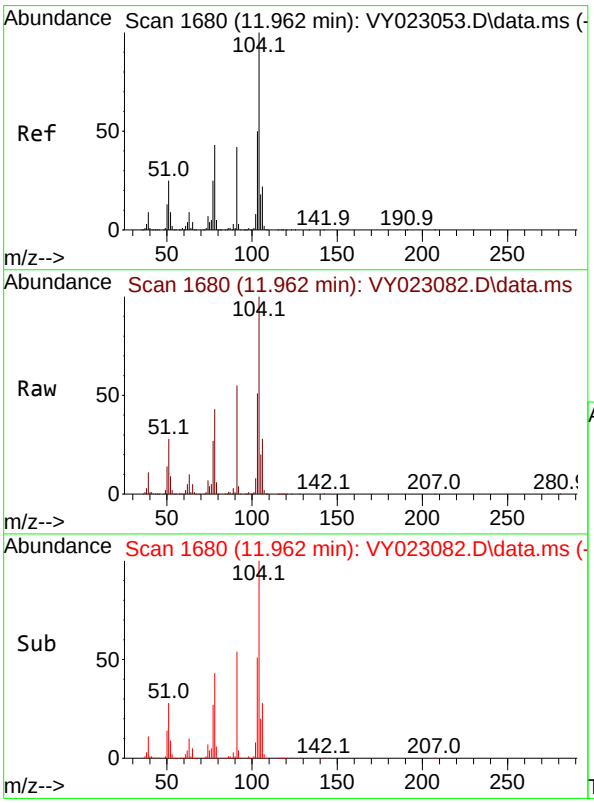

#69
o-Xylene
Concen: 49.346 ug/l
RT: 11.950 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:106 Resp: 437649

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 209.1 | 103.2 | 309.4 |

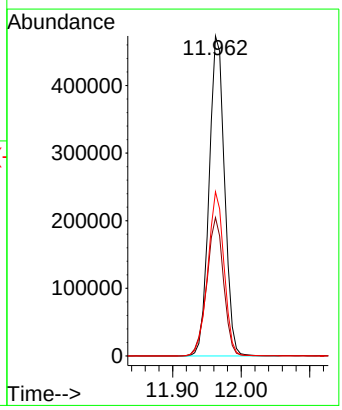


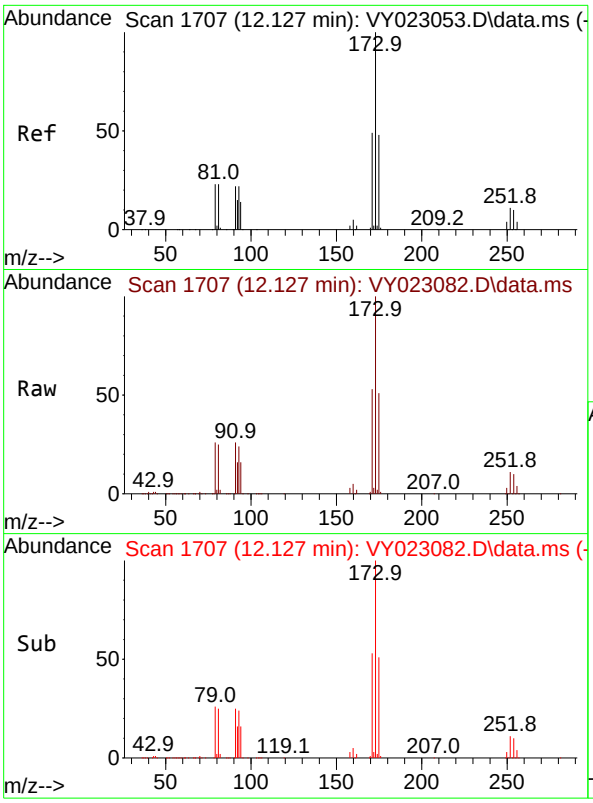




#70
Styrene
Concen: 51.107 ug/l
RT: 11.962 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:104 Resp: 741269

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 46.9 | 38.5 | 57.7 |
| 103 | 54.1 | 43.7 | 65.5 |



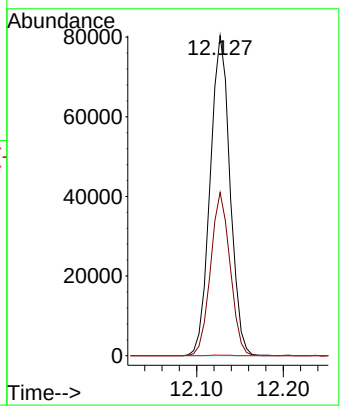


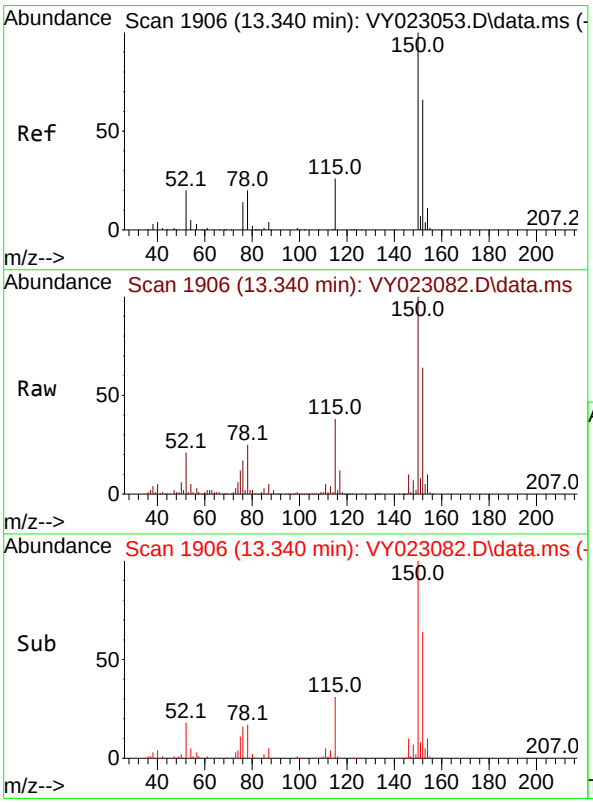

#71
Bromoform
Concen: 45.809 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:173 Resp: 128021

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 50.0 | 23.9 | 71.7 |
| 254 | 0.2 | 0.1 | 0.1# |

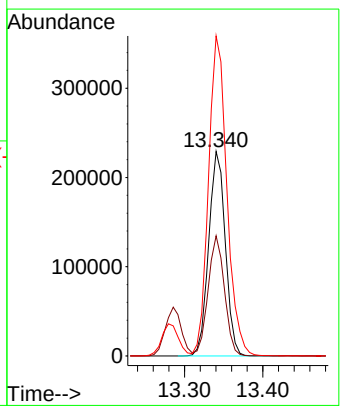


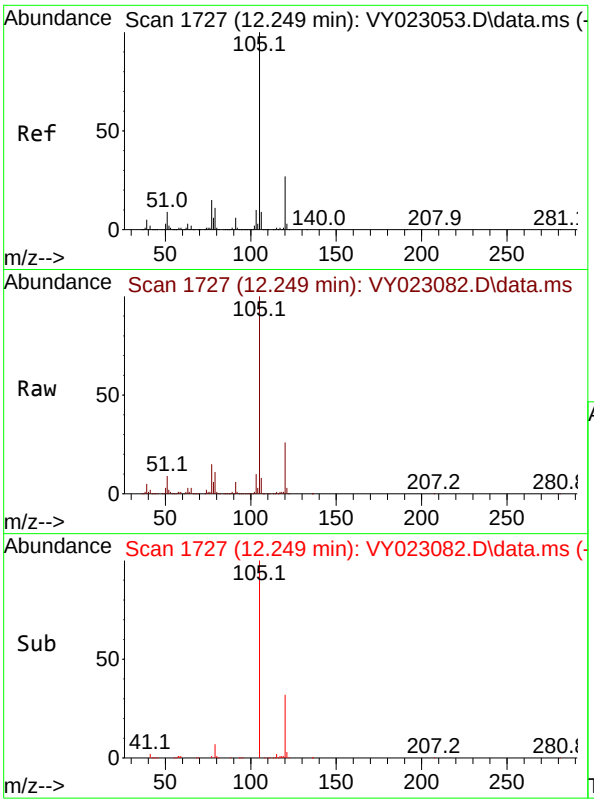




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:152 Resp: 337955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.6 | 28.2 | 84.6 |
| 150 | 172.7 | 0.0 | 348.0 |



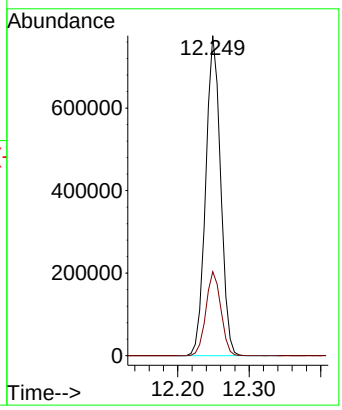


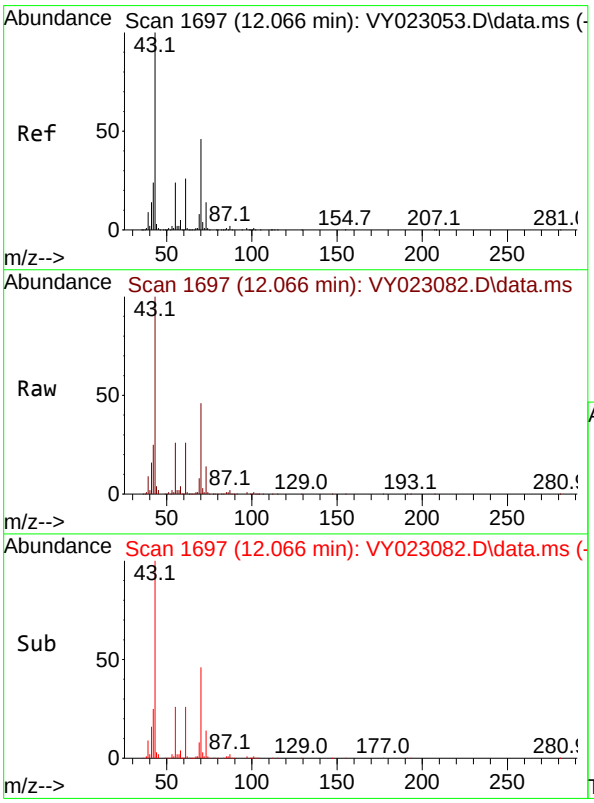

#73
Isopropylbenzene
Concen: 46.989 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:105 Resp: 1120808

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.4 | 13.4 | 40.2 |

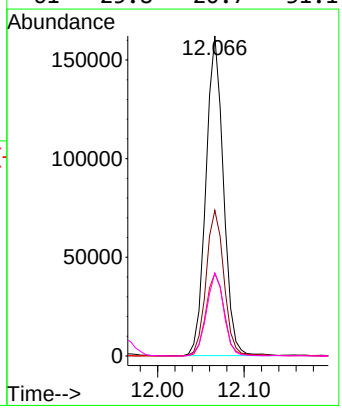


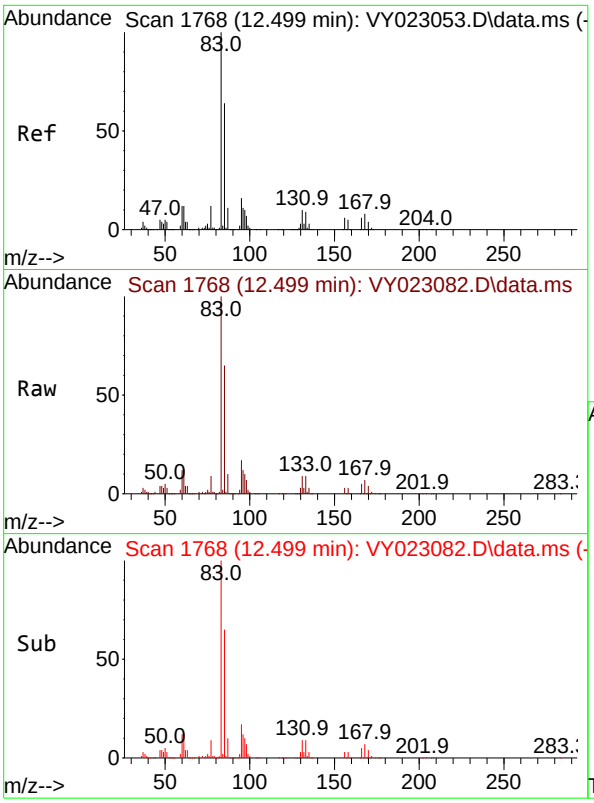




#74
N-amyl acetate
Concen: 45.070 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 43 Resp: 227982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 46.7 | 37.5 | 56.3 |
| 55 | 27.0 | 20.7 | 31.1 |
| 61 | 25.8 | 20.7 | 31.1 |



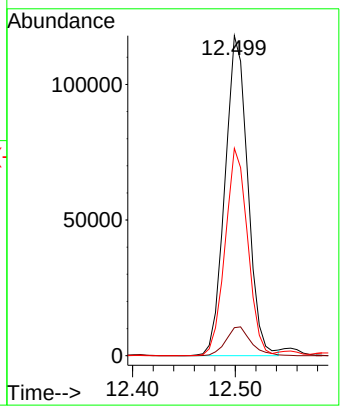


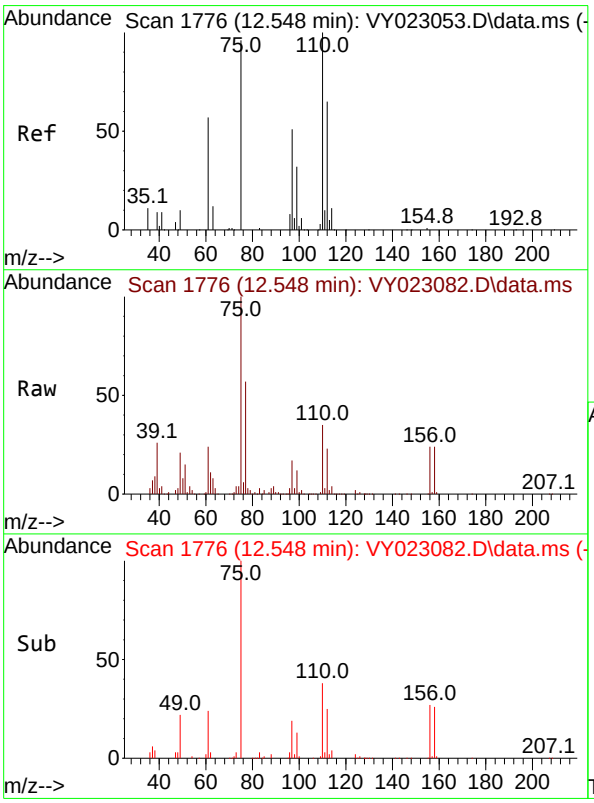

#75
1,1,2,2-Tetrachloroethane
Concen: 44.662 ug/l
RT: 12.499 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 83 Resp: 181898

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.9 | 5.1 | 15.3 |
| 85 | 64.0 | 31.8 | 95.3 |

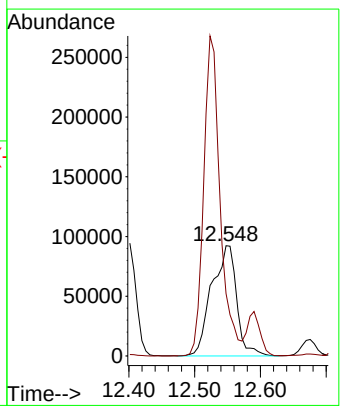


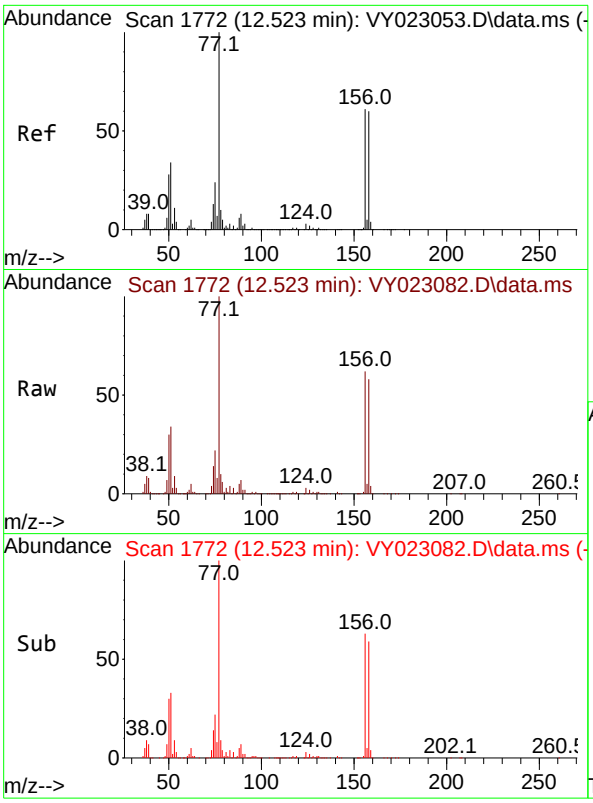




#76
1,2,3-Trichloropropane
Concen: 74.579 ug/l
RT: 12.548 min Scan# 1776
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 75 Resp: 243249

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |



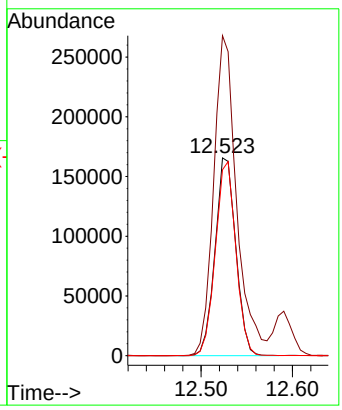


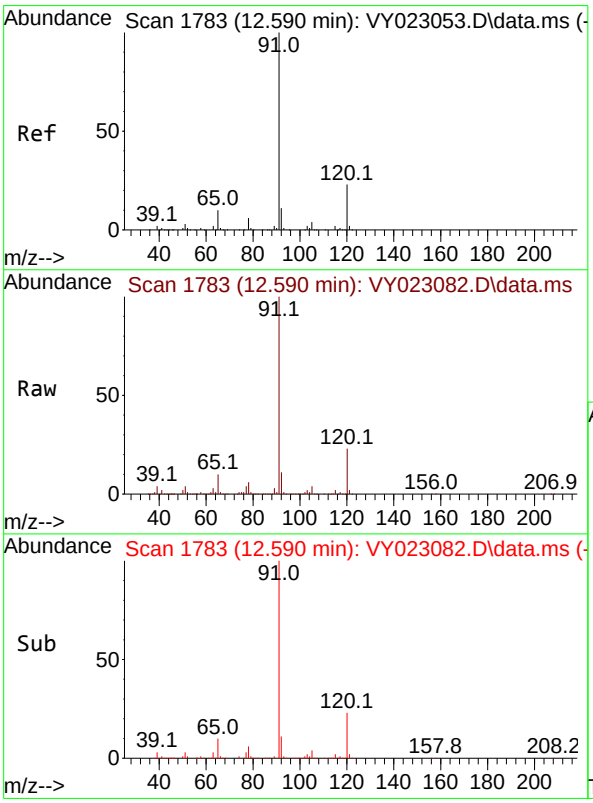

#77
Bromobenzene
Concen: 45.880 ug/l
RT: 12.523 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:156 Resp: 261080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 179.7 | 88.1 | 264.4 |
| 158 | 97.1 | 48.0 | 144.0 |

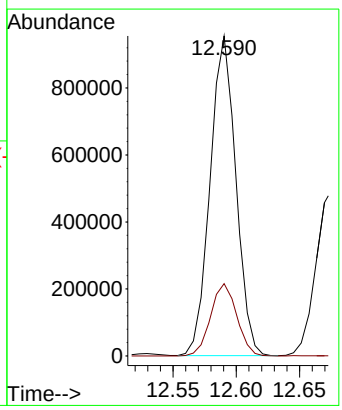


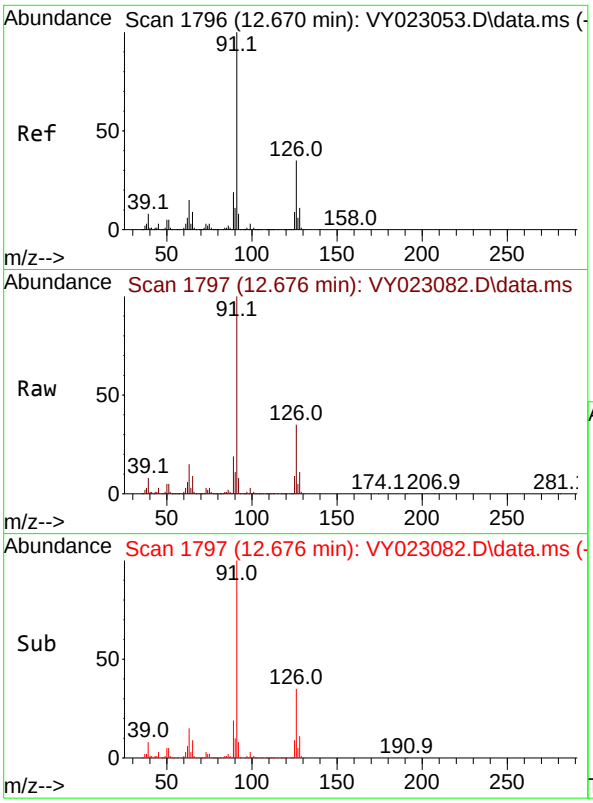




#78
n-propylbenzene
Concen: 47.608 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 91 Resp: 1351965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.9 | 11.5 | 34.5 |



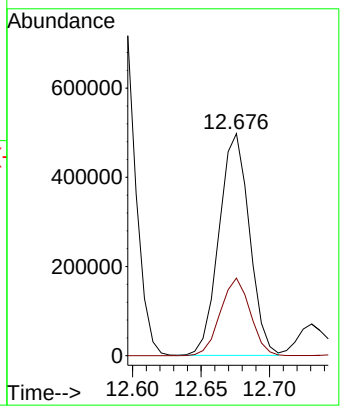


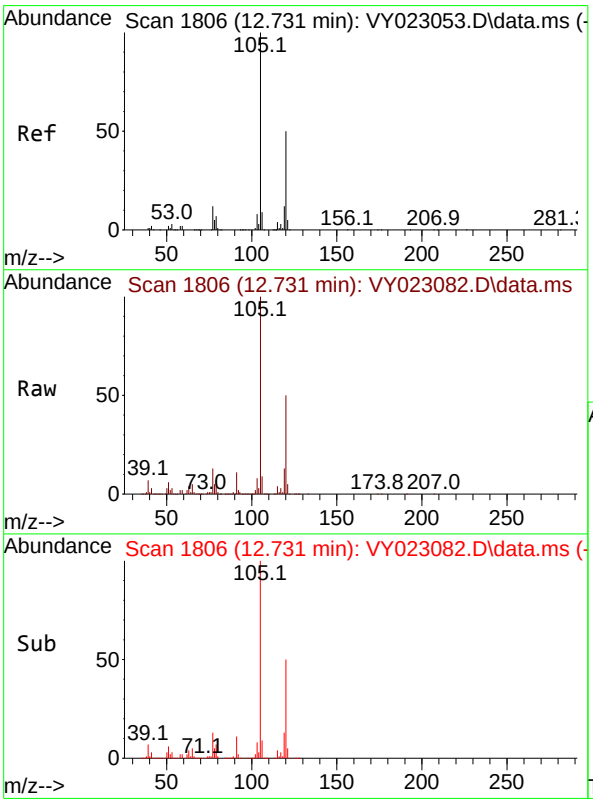

#79
2-Chlorotoluene
Concen: 47.220 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 91 Resp: 768315

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.4 | 17.4 | 52.3 |

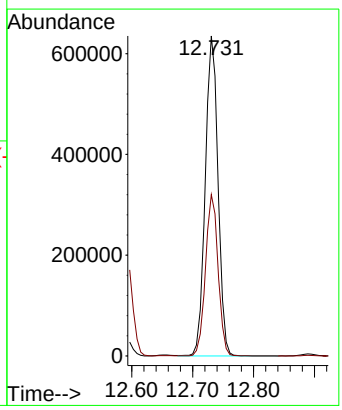


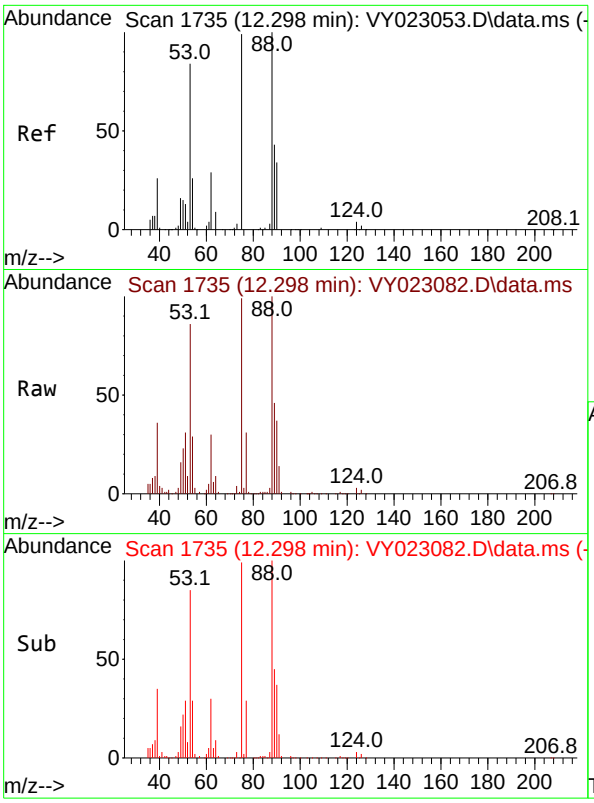




#80
1,3,5-Trimethylbenzene
Concen: 48.002 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:105 Resp: 925355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.9 | 24.8 | 74.4 |



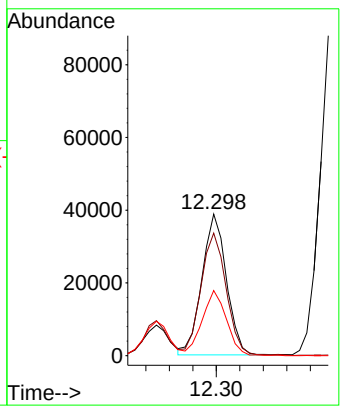


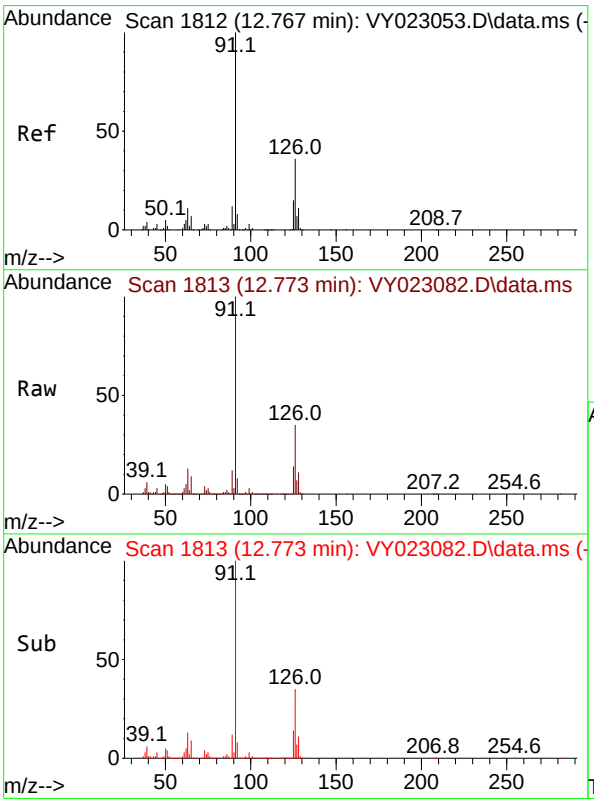

#81
trans-1,4-Dichloro-2-butene
Concen: 41.468 ug/l
RT: 12.298 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 75 Resp: 55874

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 89.1 | 70.8 | 106.2 |
| 89 | 46.0 | 38.1 | 57.1 |

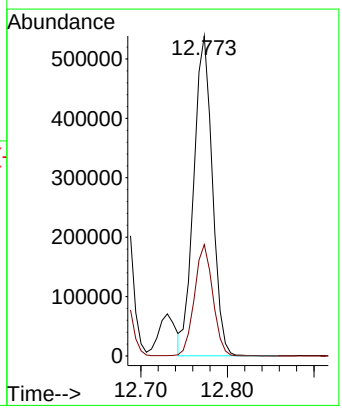


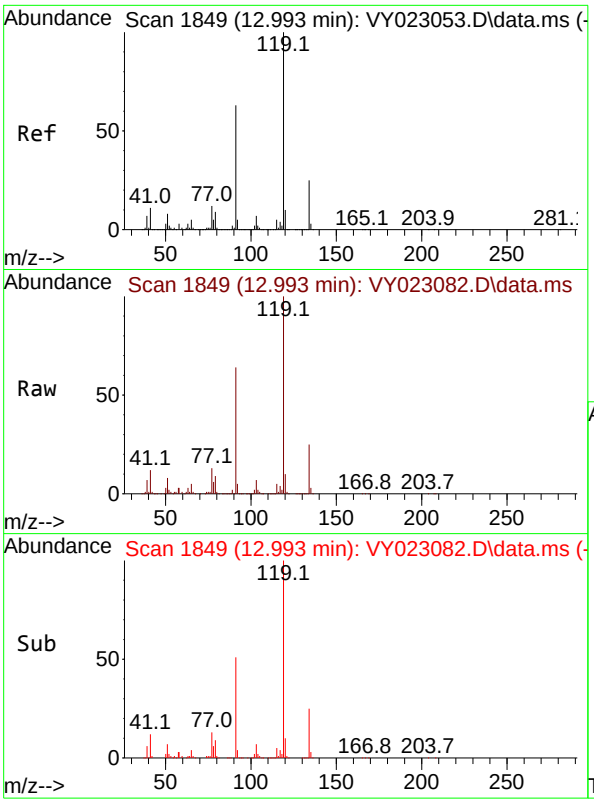




#82
4-Chlorotoluene
Concen: 47.468 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 91 Resp: 801214

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.4 | 17.3 | 52.0 |



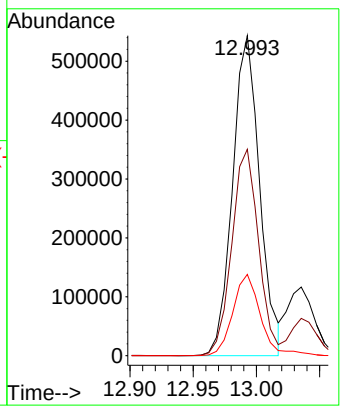


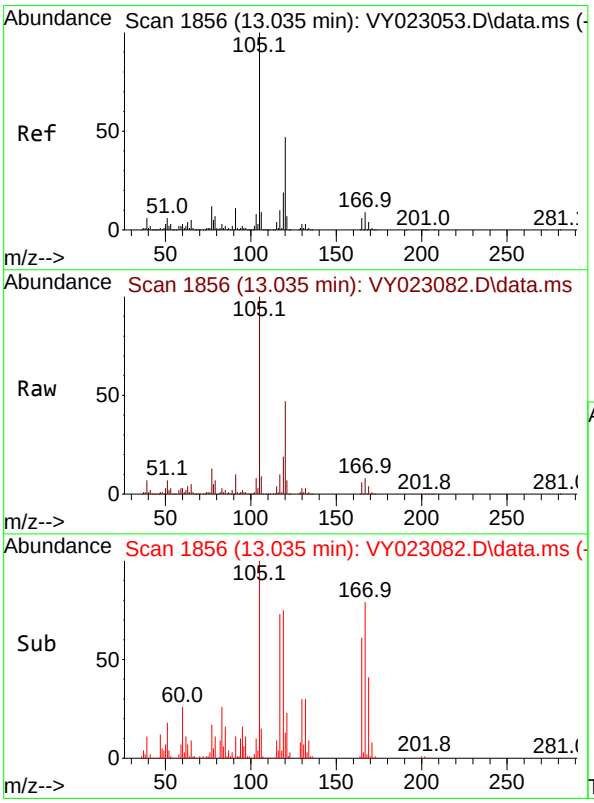

#83
tert-Butylbenzene
Concen: 46.538 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:119 Resp: 810256

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 63.8 | 31.6 | 94.8 |
| 134 | 26.0 | 12.9 | 38.7 |

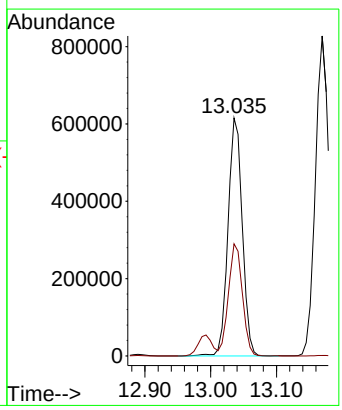


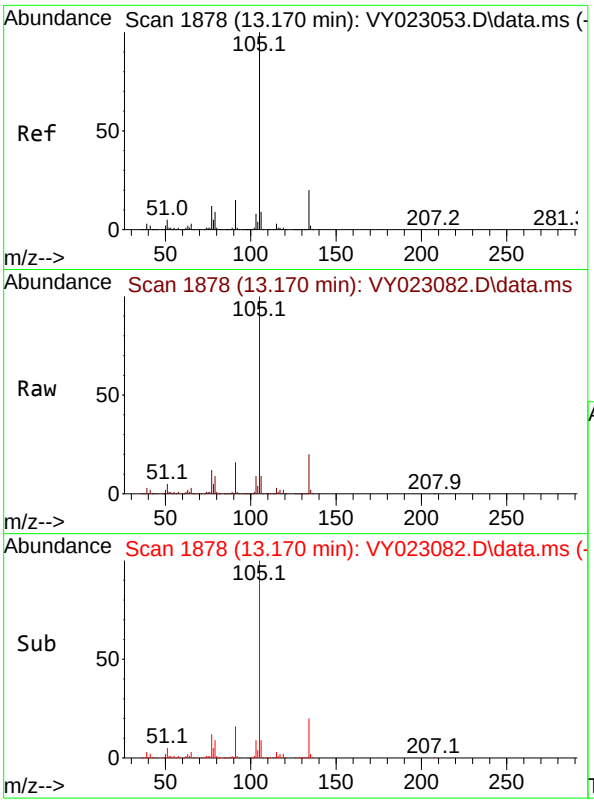




#84
1,2,4-Trimethylbenzene
Concen: 48.337 ug/l
RT: 13.035 min Scan# 1856
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:105 Resp: 927586

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.2 | 23.0 | 69.0 |



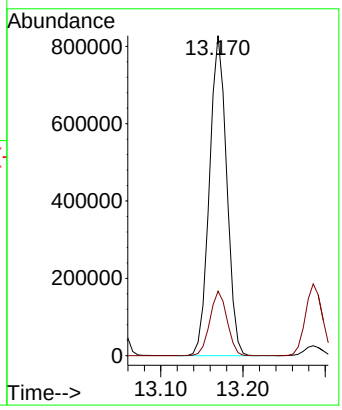


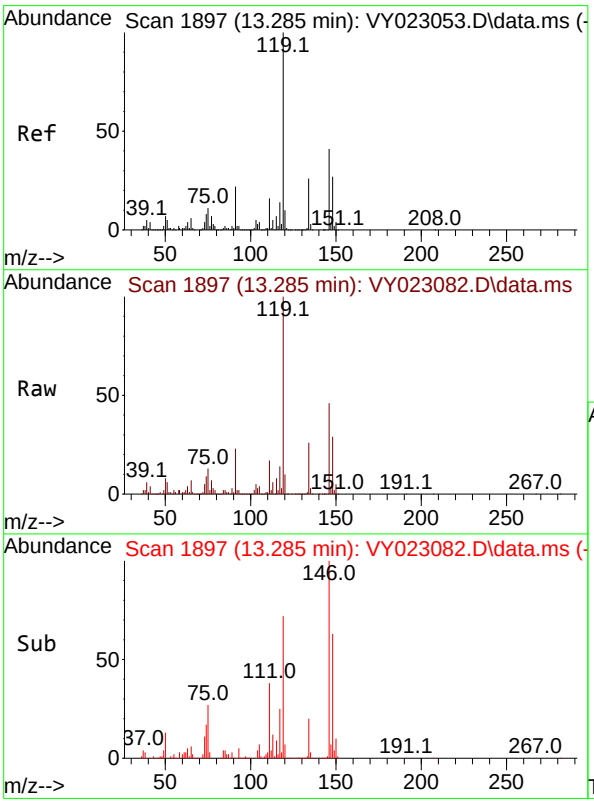

#85
sec-Butylbenzene
Concen: 47.086 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:105 Resp: 1204282

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.1 | 10.2 | 30.4 |

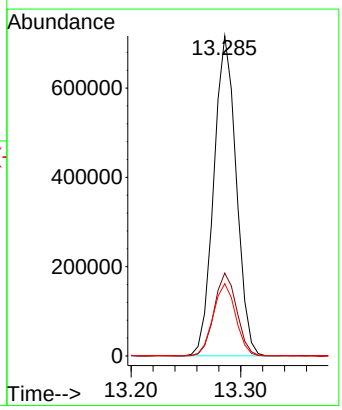


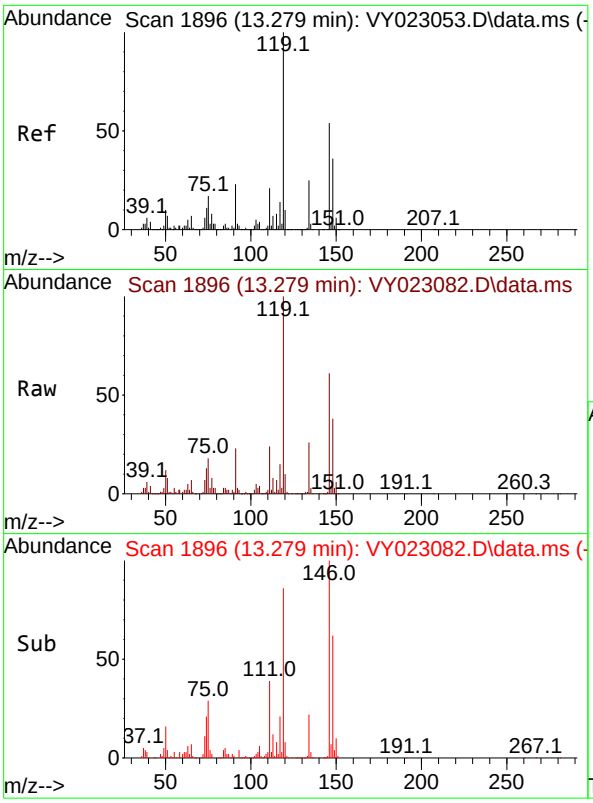




#86
p-Isopropyltoluene
Concen: 48.033 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:119 Resp: 1019726

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.0 | 13.2 | 39.6 |
| 91 | 22.7 | 11.3 | 33.8 |



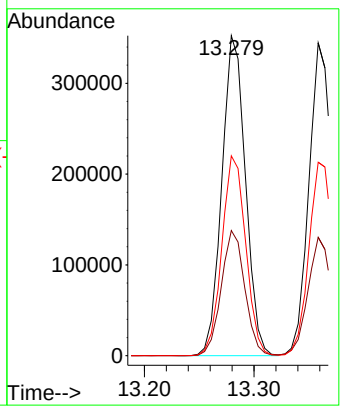


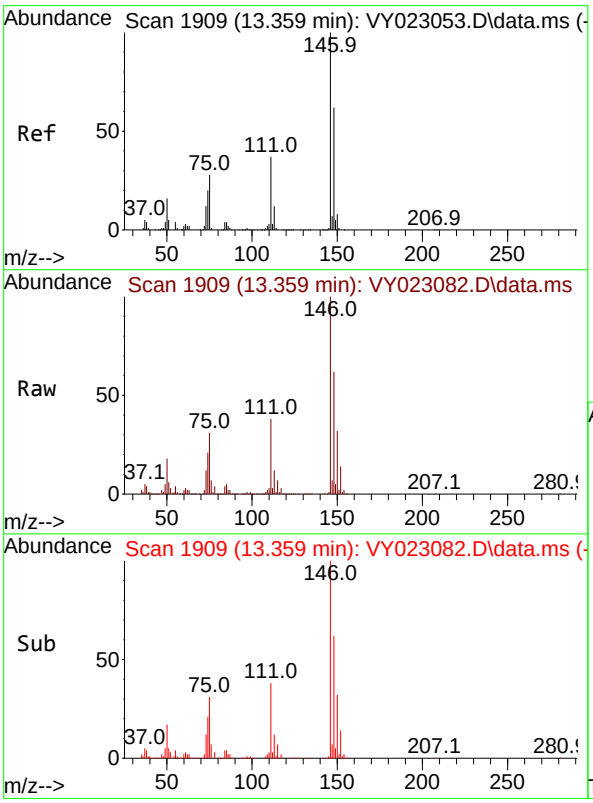

#87
1,3-Dichlorobenzene
Concen: 46.997 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:146 Resp: 527390

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.0 | 19.6 | 58.7 |
| 148 | 63.1 | 32.5 | 97.5 |

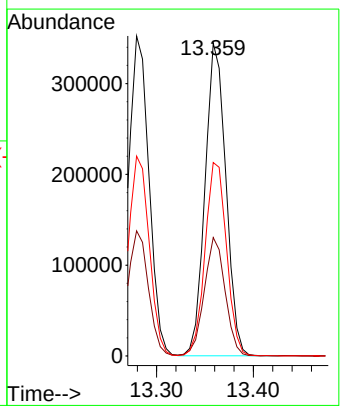


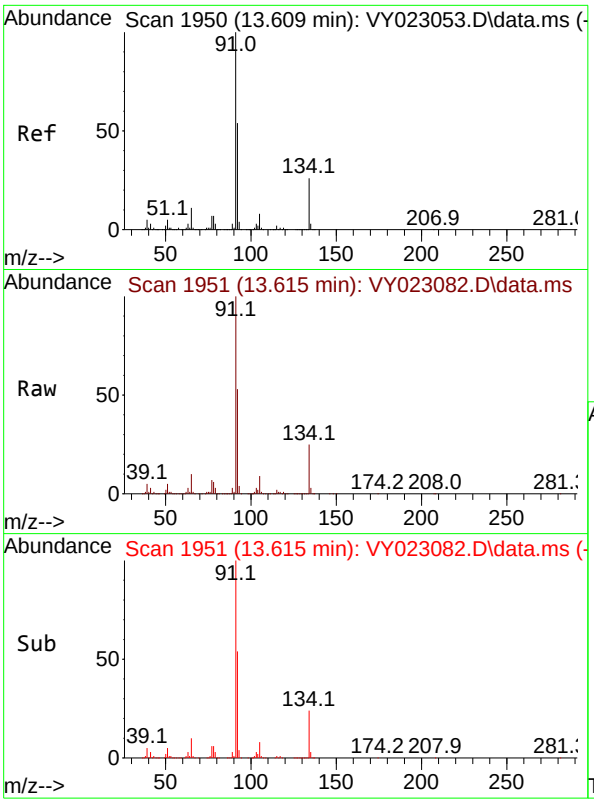




#88
1,4-Dichlorobenzene
Concen: 46.447 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:146 Resp: 517037

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 37.9 | 19.1 | 57.1 |
| 148 | 63.9 | 31.6 | 94.7 |



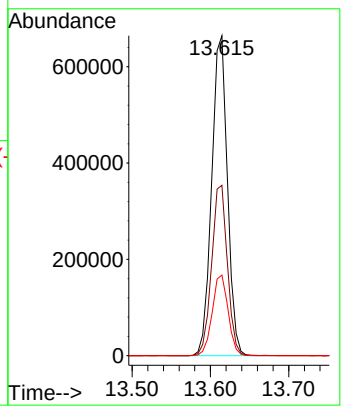


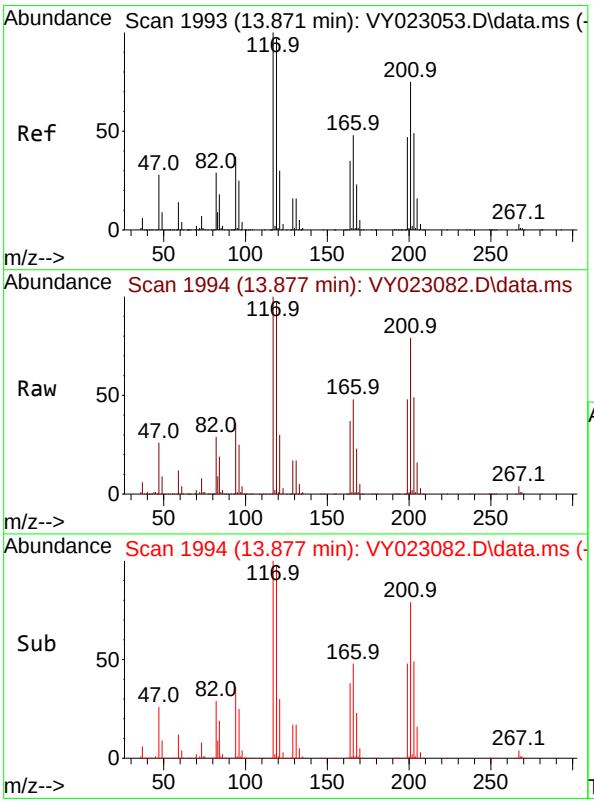

#89
n-Butylbenzene
Concen: 47.492 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 91 Resp: 926009

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.3 | 26.9 | 80.7 |
| 134 | 25.5 | 13.2 | 39.5 |

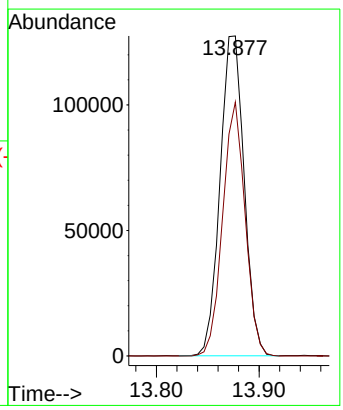


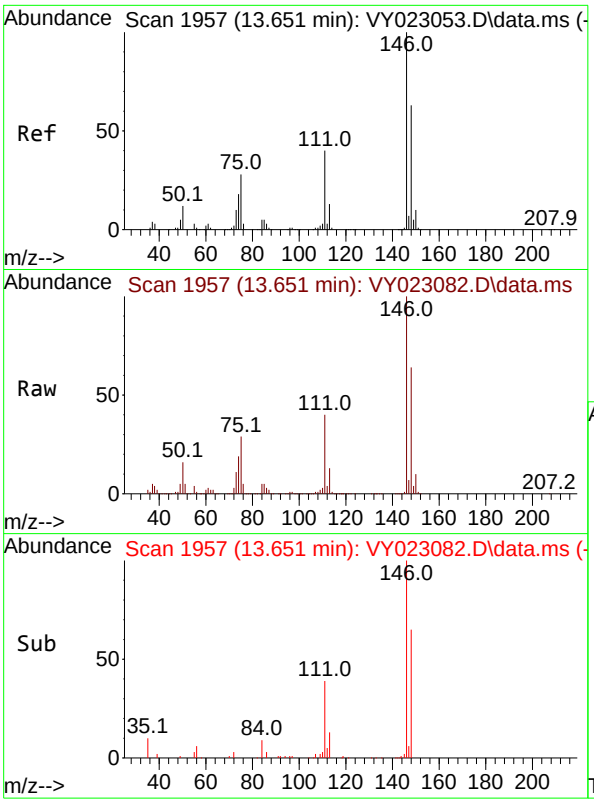




#90
Hexachloroethane
Concen: 47.698 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:117 Resp: 207292

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 73.9 | 38.4 | 115.1 |



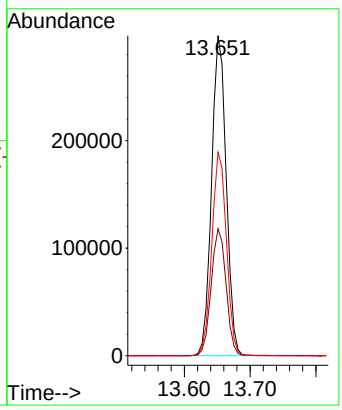


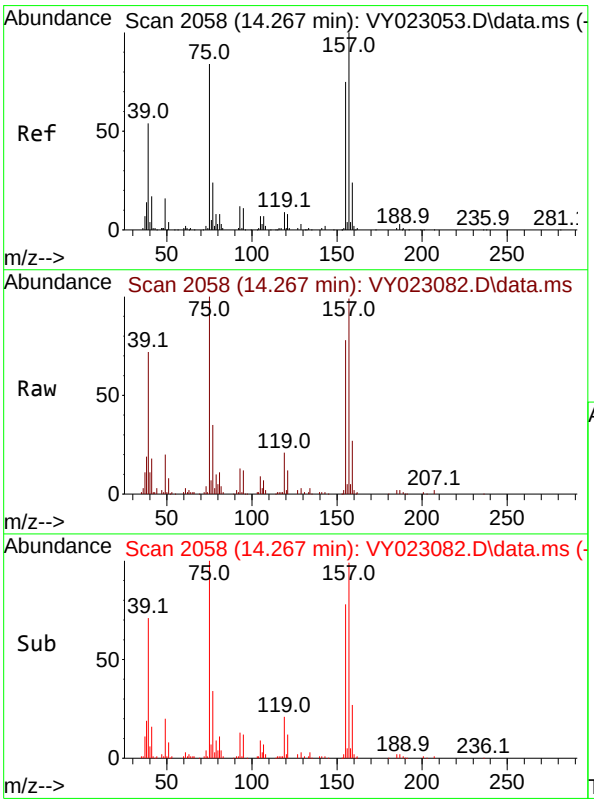

#91
1,2-Dichlorobenzene
Concen: 46.764 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:146 Resp: 460225

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.3 | 20.3 | 60.8 |
| 148 | 63.8 | 32.2 | 96.6 |

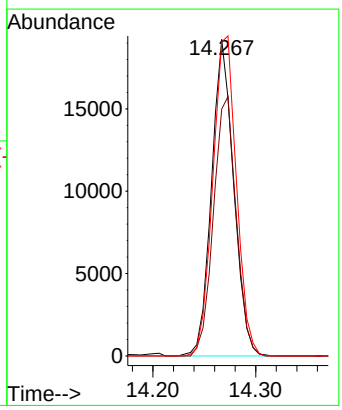


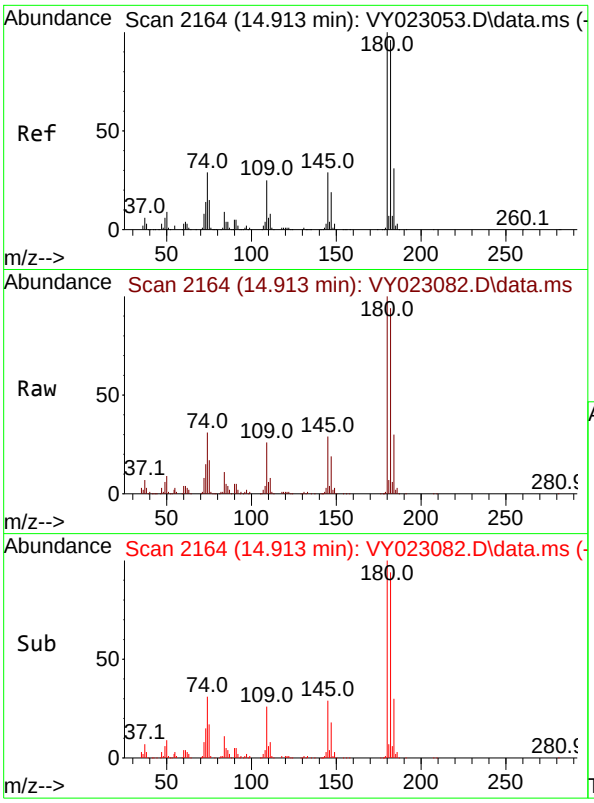




#92
1,2-Dibromo-3-Chloropropane
Concen: 45.213 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion: 75 Resp: 28670

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 84.2 | 43.9 | 131.6 |
| 157 | 107.8 | 57.2 | 171.6 |



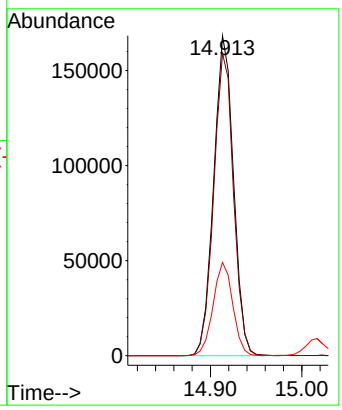


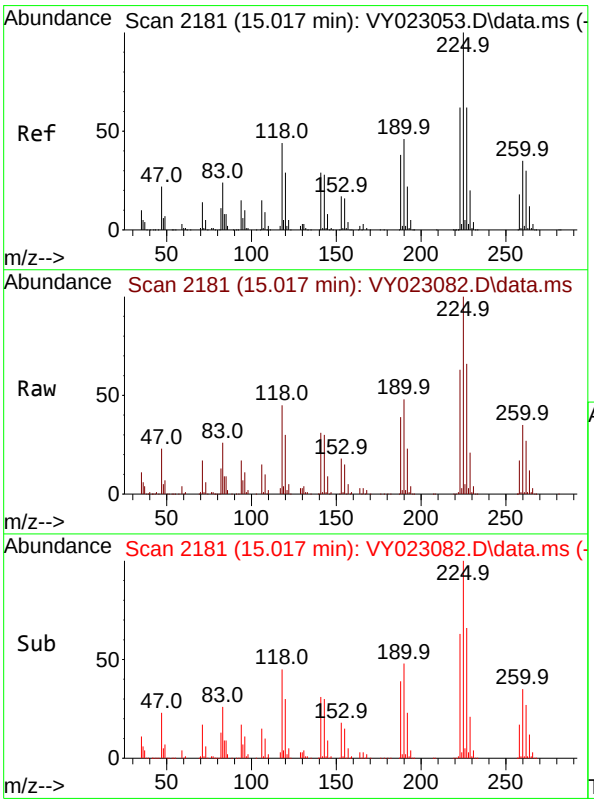

#93
1,2,4-Trichlorobenzene
Concen: 43.501 ug/l
RT: 14.913 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:180 Resp: 253171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.4 | 46.8 | 140.4 |
| 145 | 29.0 | 14.4 | 43.4 |

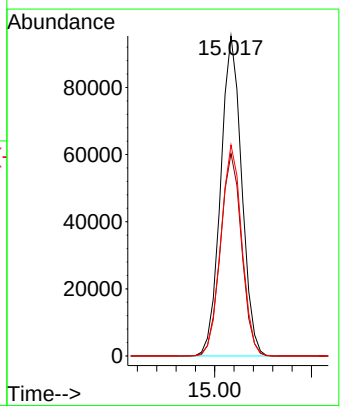


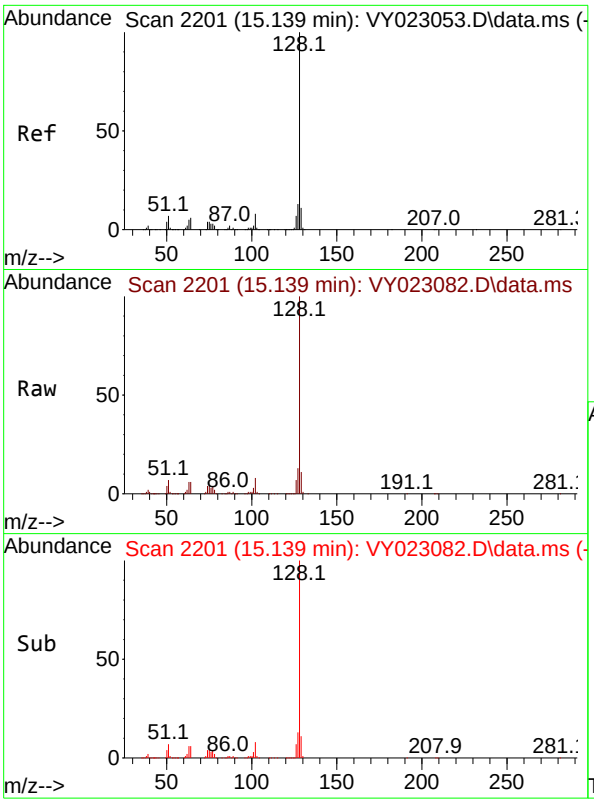




#94
Hexachlorobutadiene
Concen: 41.989 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:225 Resp: 143600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.4 | 31.3 | 93.8 |
| 227 | 65.6 | 31.5 | 94.5 |



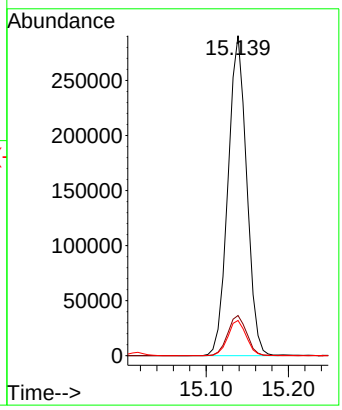


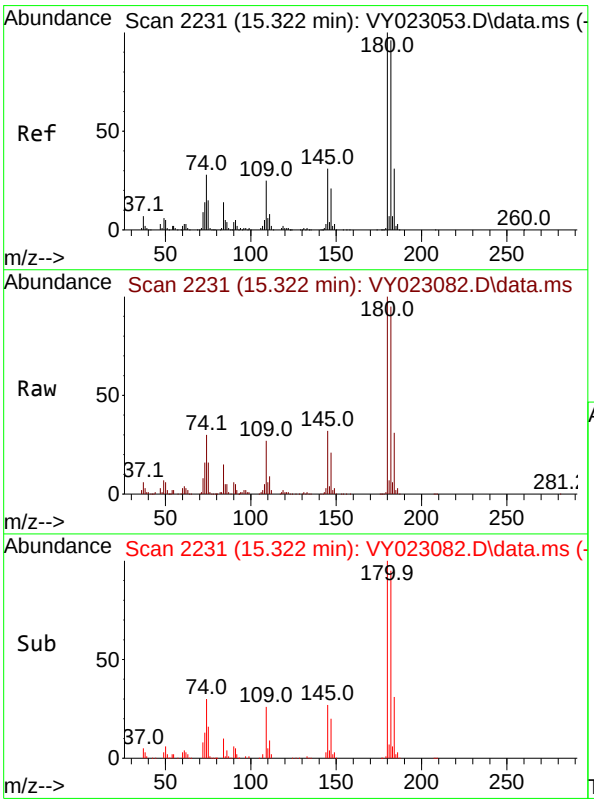

#95
Naphthalene
Concen: 46.256 ug/l
RT: 15.139 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:128 Resp: 459045

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.8 | 10.4 | 15.6 |
| 129 | 10.9 | 9.0 | 13.4 |

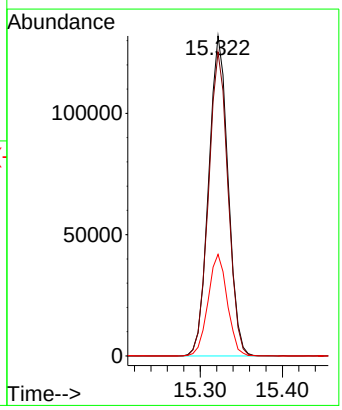



#96
1,2,3-Trichlorobenzene
Concen: 43.140 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023082.D
Acq: 13 Aug 2025 20:00

Tgt Ion:180 Resp: 216348

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.1 | 47.9 | 143.7 |
| 145 | 31.4 | 15.9 | 47.7 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023084.D
Acq On : 14 Aug 2025 10:17
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Quant Time: Aug 14 14:46:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 410930 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 647551 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 582049 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 290049 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 221987 | 56.681 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 113.360% | | | |
| 35) Dibromofluoromethane | 7.628 | 113 | 223080 | 57.573 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 115.140% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 875441 | 57.835 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 115.660% | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 276611 | 56.822 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 113.640% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.861 | 85 | 151094 | 45.046 | ug/l | 100 |
| 3) Chloromethane | 2.068 | 50 | 303228 | 55.814 | ug/l | 96 |
| 4) Vinyl Chloride | 2.202 | 62 | 388943 | 57.916 | ug/l | 98 |
| 5) Bromomethane | 2.592 | 94 | 288079 | 57.438 | ug/l | 99 |
| 6) Chloroethane | 2.732 | 64 | 273182 | 61.186 | ug/l | 98 |
| 7) Trichlorofluoromethane | 3.050 | 101 | 438280 | 53.672 | ug/l | 97 |
| 8) Diethyl Ether | 3.452 | 74 | 108282 | 50.120 | ug/l | 98 |
| 9) 1,1,2-Trichlorotrifluo... | 3.812 | 101 | 217833 | 54.071 | ug/l | 99 |
| 10) Methyl Iodide | 4.001 | 142 | 268014 | 61.652 | ug/l | 98 |
| 11) Tert butyl alcohol | 4.854 | 59 | 58207 | 216.906 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 210368 | 53.125 | ug/l | 99 |
| 13) Acrolein | 3.647 | 56 | 70939 | 180.505 | ug/l | 95 |
| 14) Allyl chloride | 4.379 | 41 | 309516 | 53.120 | ug/l | 98 |
| 15) Acrylonitrile | 5.055 | 53 | 225862 | 257.151 | ug/l | 99 |
| 16) Acetone | 3.860 | 43 | 217392 | 256.214 | ug/l | 96 |
| 17) Carbon Disulfide | 4.104 | 76 | 693545 | 53.714 | ug/l | 99 |
| 18) Methyl Acetate | 4.379 | 43 | 127782 | 50.608 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.110 | 73 | 525251 | 51.188 | ug/l | 99 |
| 20) Methylene Chloride | 4.610 | 84 | 249658 | 57.006 | ug/l | 98 |
| 21) trans-1,2-Dichloroethene | 5.110 | 96 | 245991 | 55.278 | ug/l | 98 |
| 22) Diisopropyl ether | 6.012 | 45 | 701401 | 55.396 | ug/l | 97 |
| 23) Vinyl Acetate | 5.958 | 43 | 1858955 | 265.520 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 5.909 | 63 | 437716 | 56.544 | ug/l | 100 |
| 25) 2-Butanone | 6.890 | 43 | 291161 | 252.314 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 369032 | 55.247 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.884 | 96 | 282758 | 54.962 | ug/l | 99 |
| 28) Bromochloromethane | 7.244 | 49 | 180624 | 58.812 | ug/l | 97 |
| 29) Tetrahydrofuran | 7.262 | 42 | 176218 | 246.358 | ug/l | 99 |
| 30) Chloroform | 7.415 | 83 | 452700 | 56.703 | ug/l | 92 |
| 31) Cyclohexane | 7.695 | 56 | 369548 | 50.659 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 395153 | 55.782 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 324519 | 56.356 | ug/l | 99 |
| 37) Ethyl Acetate | 6.982 | 43 | 127399 | 52.667 | ug/l | 98 |
| 38) Carbon Tetrachloride | 7.811 | 117 | 351380 | 56.181 | ug/l | 98 |
| 39) Methylcyclohexane | 9.109 | 83 | 412645 | 54.417 | ug/l | 99 |
| 40) Benzene | 8.079 | 78 | 1015204 | 57.200 | ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023084.D
Acq On : 14 Aug 2025 10:17
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Quant Time: Aug 14 14:46:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.213 | 41 | 60193 | 43.117 ug/l # | 84 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 257953 | 55.883 ug/l | 98 |
| 43) Isopropyl Acetate | 8.195 | 43 | 247901 | 50.705 ug/l | 99 |
| 44) Trichloroethene | 8.866 | 130 | 256850 | 56.001 ug/l | 98 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 236969 | 58.028 ug/l | 98 |
| 46) Dibromomethane | 9.231 | 93 | 132779 | 56.649 ug/l | 98 |
| 47) Bromodichloromethane | 9.420 | 83 | 344511 | 57.122 ug/l | 98 |
| 48) Methyl methacrylate | 9.219 | 41 | 123024 | 52.585 ug/l | 99 |
| 49) 1,4-Dioxane | 9.225 | 88 | 28396 | 1033.218 ug/l | 95 |
| 51) 4-Methyl-2-Pentanone | 9.993 | 43 | 657357 | 260.657 ug/l | 99 |
| 52) Toluene | 10.170 | 92 | 647492 | 57.441 ug/l | 98 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 301282 | 55.165 ug/l | 98 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 360945 | 55.890 ug/l | 97 |
| 55) 1,1,2-Trichloroethane | 10.566 | 97 | 173079 | 55.184 ug/l | 96 |
| 56) Ethyl methacrylate | 10.438 | 69 | 213481 | 53.193 ug/l | 97 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 292765 | 55.040 ug/l | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 530251 | 280.099 ug/l | 100 |
| 59) 2-Hexanone | 10.755 | 43 | 442922 | 257.924 ug/l | 98 |
| 60) Dibromochloromethane | 10.908 | 129 | 231534 | 55.947 ug/l | 100 |
| 61) 1,2-Dibromoethane | 11.012 | 107 | 159967 | 54.265 ug/l | 99 |
| 64) Tetrachloroethene | 10.646 | 164 | 288037 | 55.420 ug/l | 99 |
| 65) Chlorobenzene | 11.438 | 112 | 693789 | 55.261 ug/l | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 11.511 | 131 | 237008 | 55.623 ug/l | 99 |
| 67) Ethyl Benzene | 11.518 | 91 | 1213079 | 56.146 ug/l | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 959256 | 113.678 ug/l | 100 |
| 69) o-Xylene | 11.950 | 106 | 445491 | 56.368 ug/l | 99 |
| 70) Styrene | 11.969 | 104 | 755359 | 58.442 ug/l | 99 |
| 71) Bromoform | 12.127 | 173 | 128615 | 51.645 ug/l # | 98 |
| 73) Isopropylbenzene | 12.249 | 105 | 1153144 | 56.330 ug/l | 100 |
| 74) N-amyl acetate | 12.066 | 43 | 224404 | 51.690 ug/l | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 180470 | 51.630 ug/l | 99 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 244310 | 87.276 ug/l # | 100 |
| 77) Bromobenzene | 12.530 | 156 | 264791 | 54.218 ug/l | 99 |
| 78) n-propylbenzene | 12.590 | 91 | 1411858 | 57.928 ug/l | 100 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 778755 | 55.767 ug/l | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.731 | 105 | 950021 | 57.421 ug/l | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.298 | 75 | 56963 | 49.259 ug/l | 96 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 813961 | 56.188 ug/l | 100 |
| 83) tert-Butylbenzene | 12.993 | 119 | 830094 | 55.552 ug/l | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 956285 | 58.063 ug/l | 100 |
| 85) sec-Butylbenzene | 13.170 | 105 | 1262155 | 57.500 ug/l | 99 |
| 86) p-Isopropyltoluene | 13.285 | 119 | 1062415 | 58.310 ug/l | 100 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 540543 | 56.125 ug/l | 99 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 526660 | 55.125 ug/l | 100 |
| 89) n-Butylbenzene | 13.615 | 91 | 968977 | 57.904 ug/l | 100 |
| 90) Hexachloroethane | 13.877 | 117 | 210671 | 56.482 ug/l | 98 |
| 91) 1,2-Dichlorobenzene | 13.651 | 146 | 469762 | 55.616 ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.267 | 75 | 28212 | 51.839 ug/l | 92 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 258580 | 51.769 ug/l | 99 |
| 94) Hexachlorobutadiene | 15.017 | 225 | 158788 | 54.099 ug/l | 99 |
| 95) Naphthalene | 15.139 | 128 | 433775 | 50.929 ug/l | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.322 | 180 | 220135 | 51.145 ug/l | 99 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023084.D
Acq On : 14 Aug 2025 10:17
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Quant Time: Aug 14 14:46:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

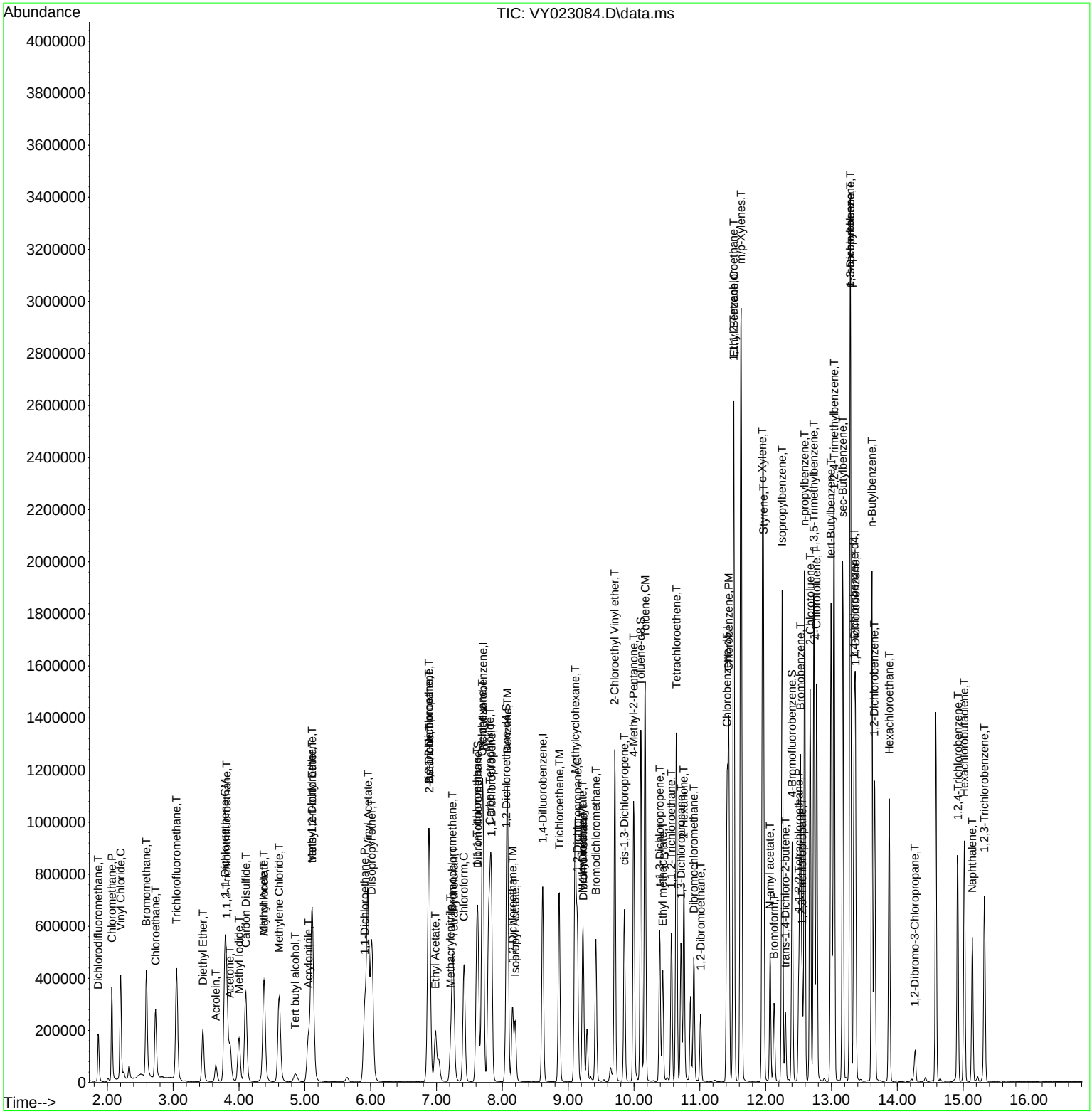
(#) = qualifier out of range (m) = manual integration (+) = signals summed

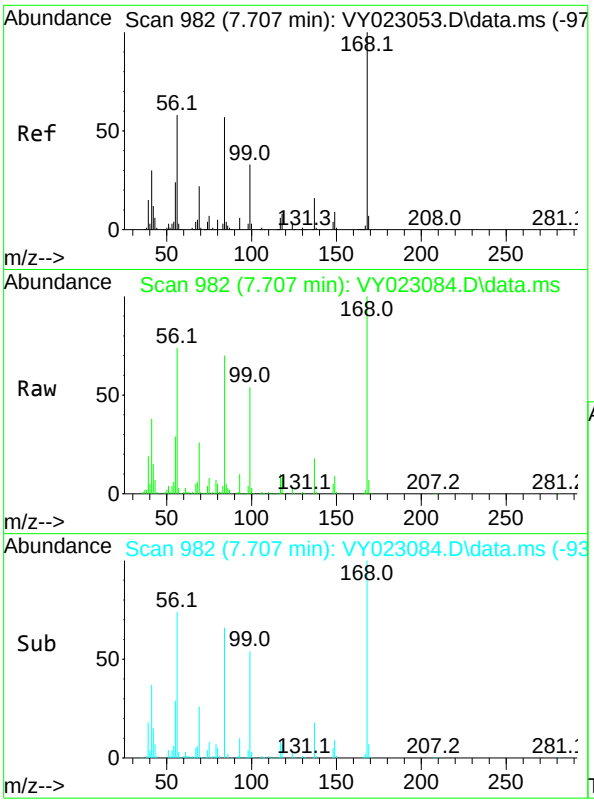
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023084.D
Acq On : 14 Aug 2025 10:17
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Quant Time: Aug 14 14:46:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



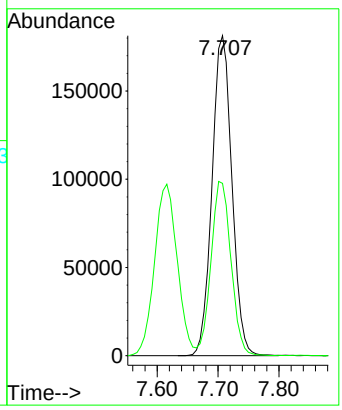


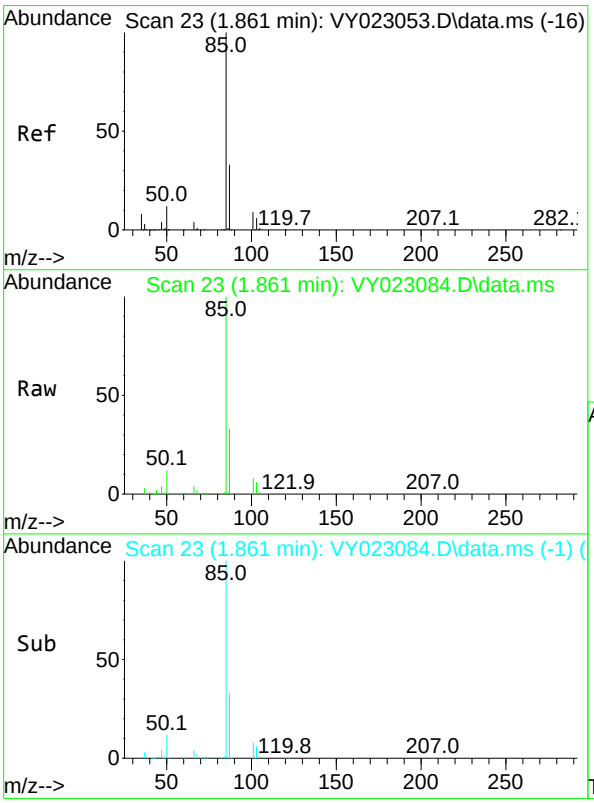

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:168 Resp: 410930

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 53.7 | 42.8 | 64.2 |

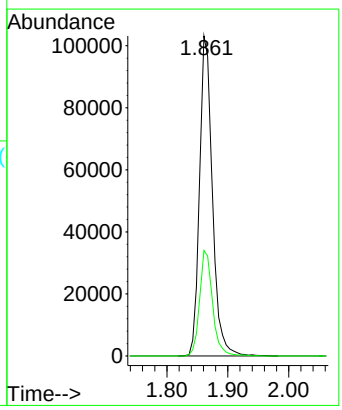


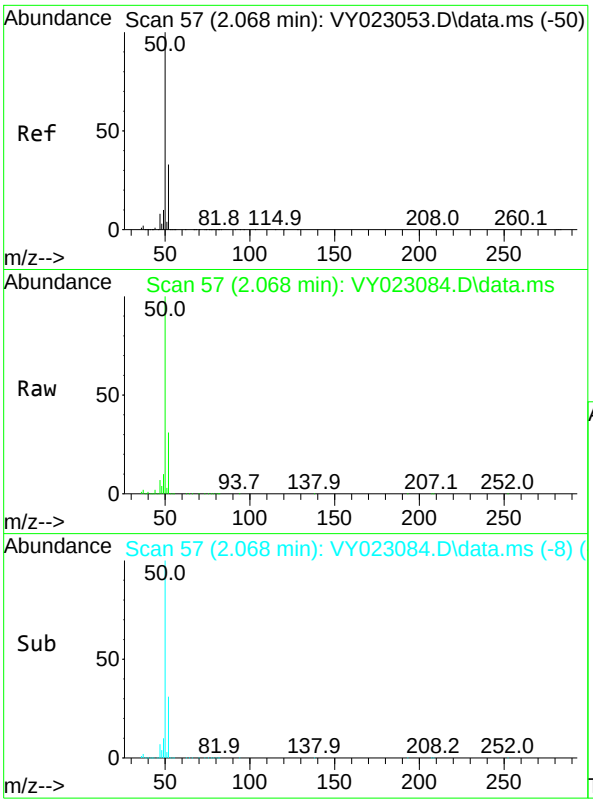




#2
Dichlorodifluoromethane
Concen: 45.046 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 85 Resp: 151094

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.9 | 16.6 | 49.8 |



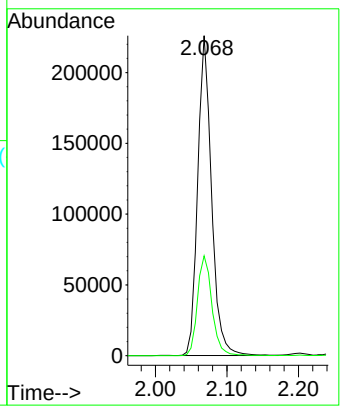


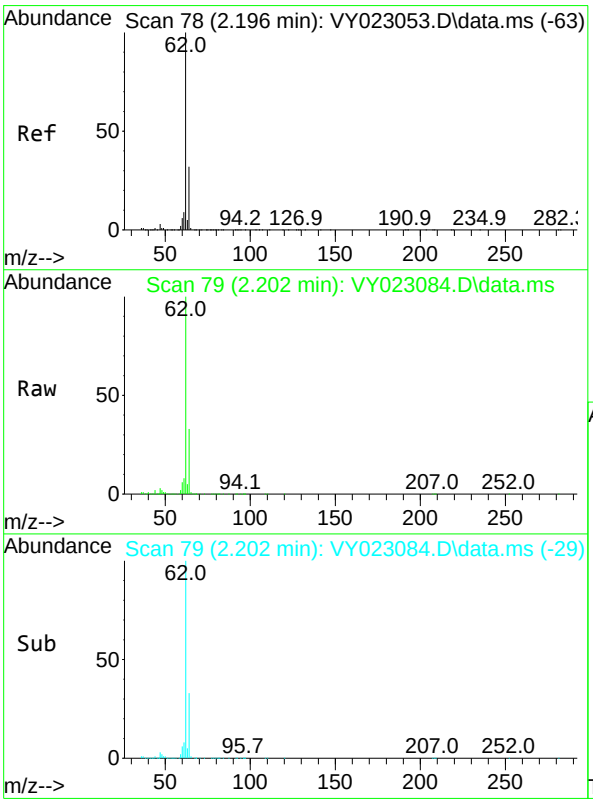

#3
Chloromethane
Concen: 55.814 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 50 Resp: 303228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.2 | 26.7 | 40.1 |

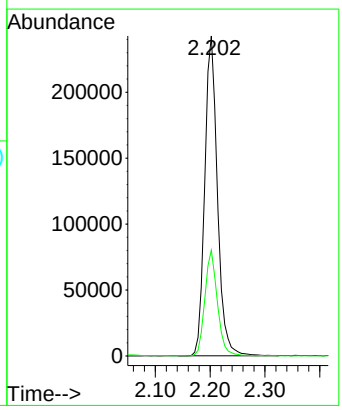


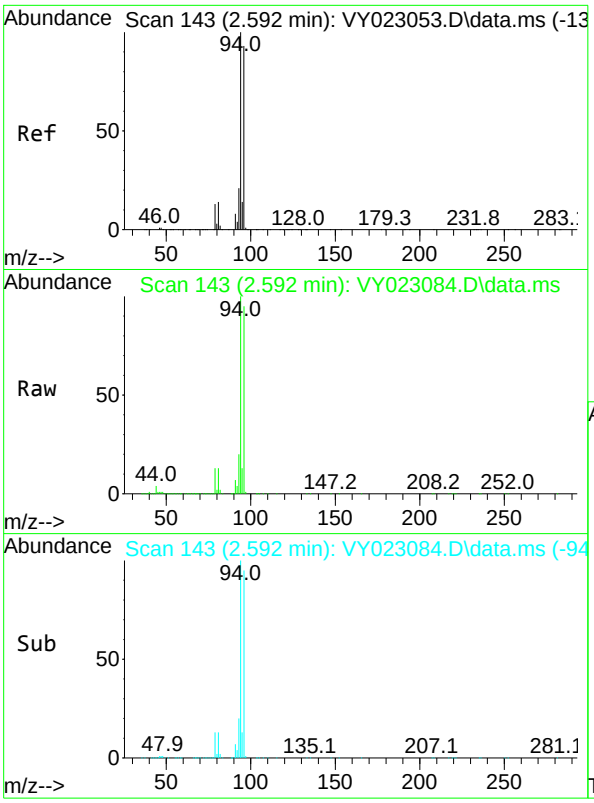




#4
Vinyl Chloride
Concen: 57.916 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 62 Resp: 388943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 33.0 | 25.4 | 38.0 |



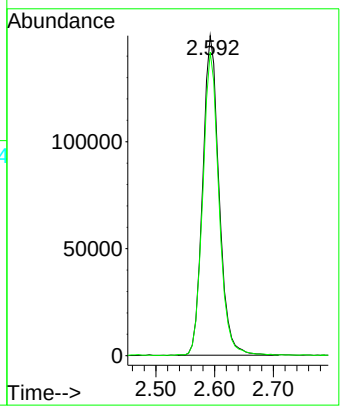


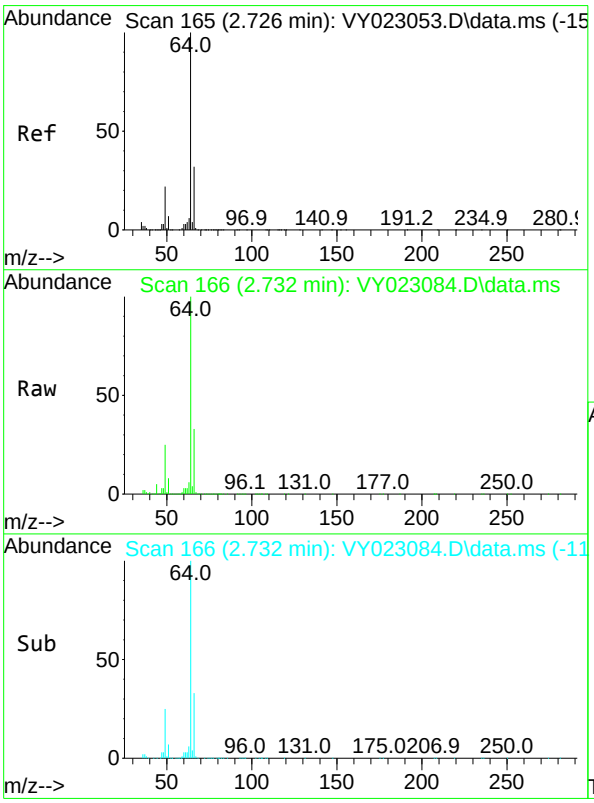

#5
Bromomethane
Concen: 57.438 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 94 Resp: 288079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 94.7 | 74.6 | 112.0 |

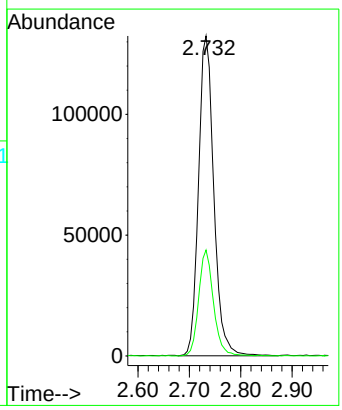


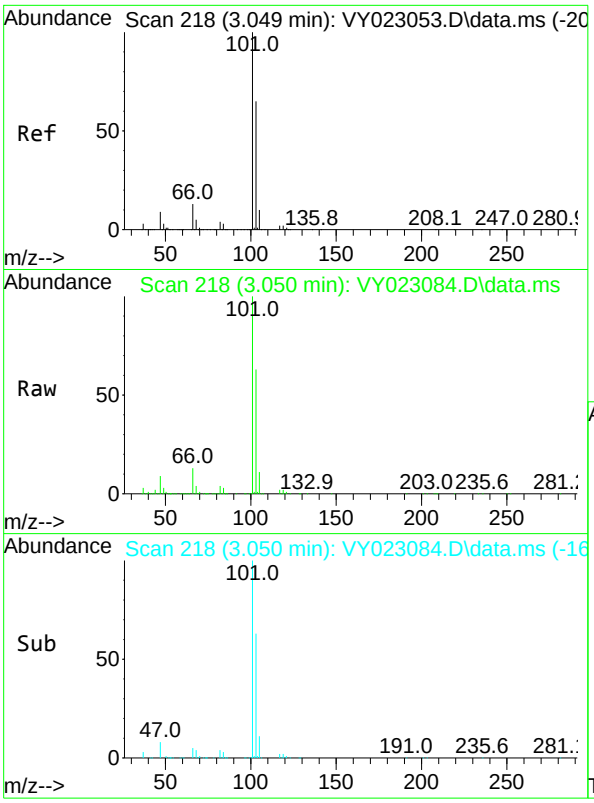




#6
Chloroethane
Concen: 61.186 ug/l
RT: 2.732 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 64 Resp: 273182

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 33.1 | 25.8 | 38.6 |



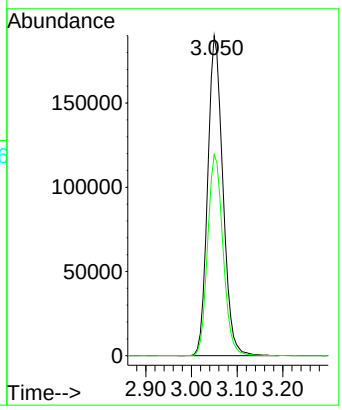


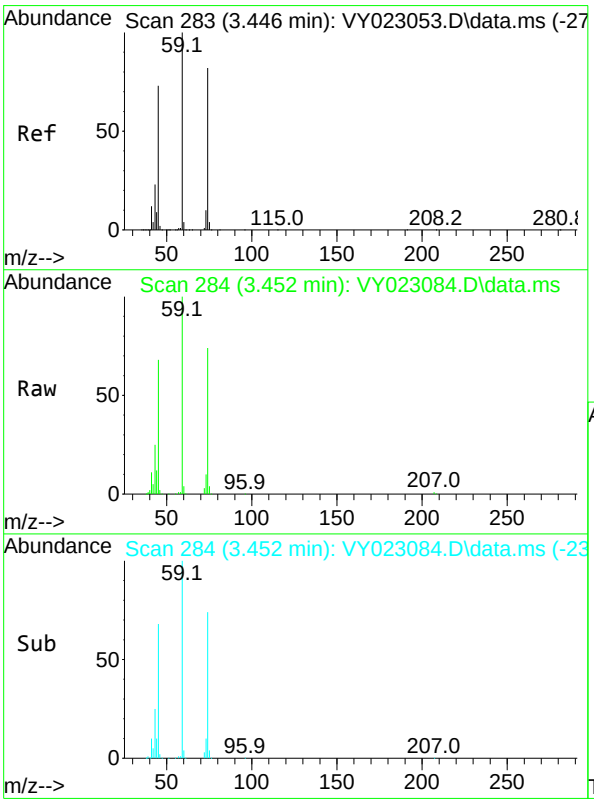

#7
Trichlorofluoromethane
Concen: 53.672 ug/l
RT: 3.050 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:101 Resp: 438280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 62.9 | 51.9 | 77.9 |

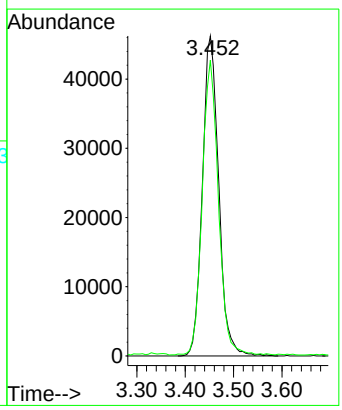


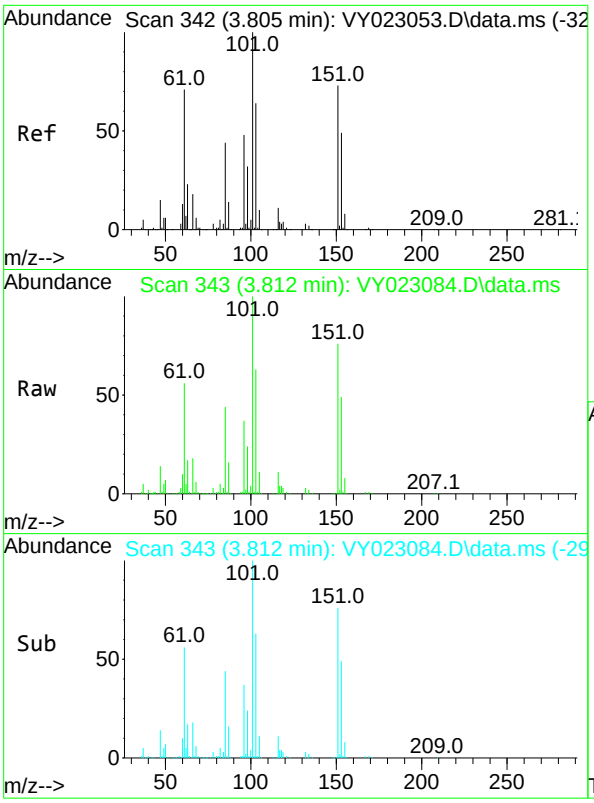




#8
Diethyl Ether
Concen: 50.120 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 74 Resp: 108282

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 91.1 | 44.4 | 133.2 |



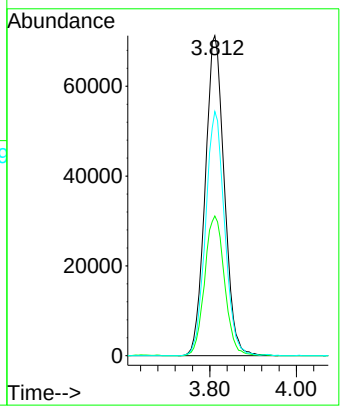


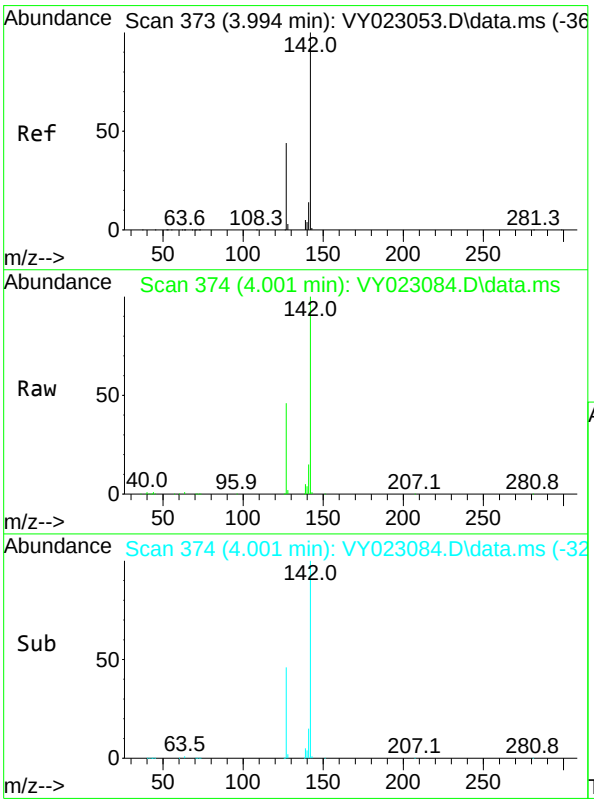

#9
1,1,2-Trichlorotrifluoroethane
Concen: 54.071 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:101 Resp: 217833

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 45.5 | 36.3 | 54.5 |
| 151 | 76.2 | 61.5 | 92.3 |

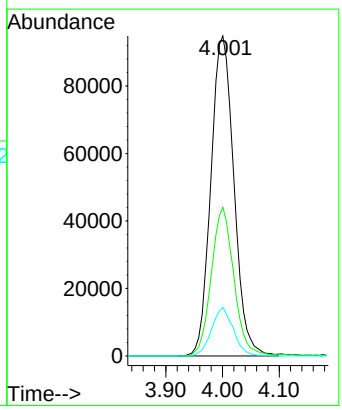


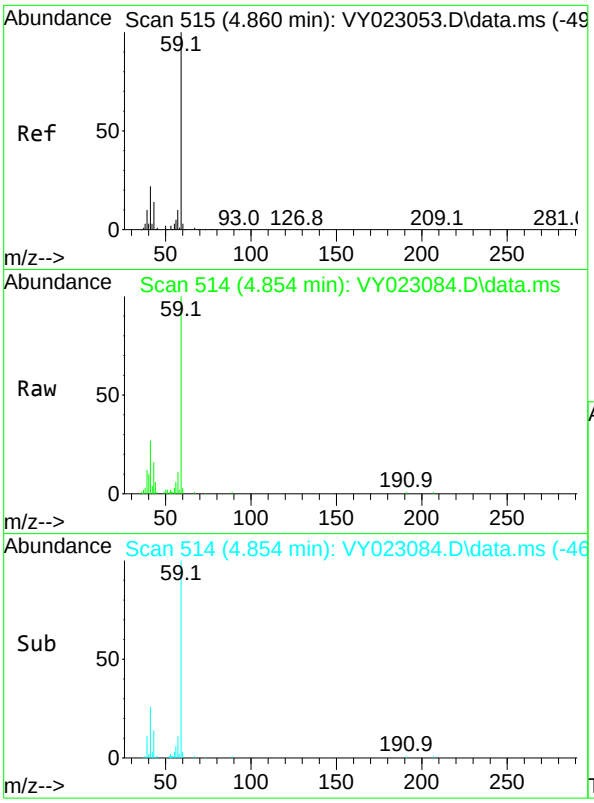




#10
Methyl Iodide
Concen: 61.652 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:142 Resp: 268014

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 45.4 | 34.9 | 52.3 |
| 141 | 14.4 | 11.3 | 16.9 |



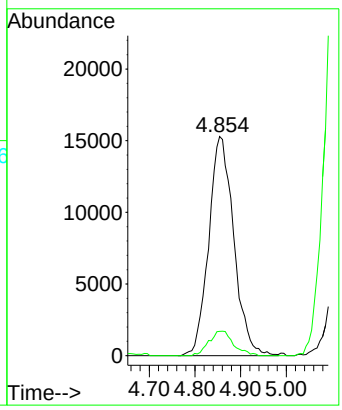


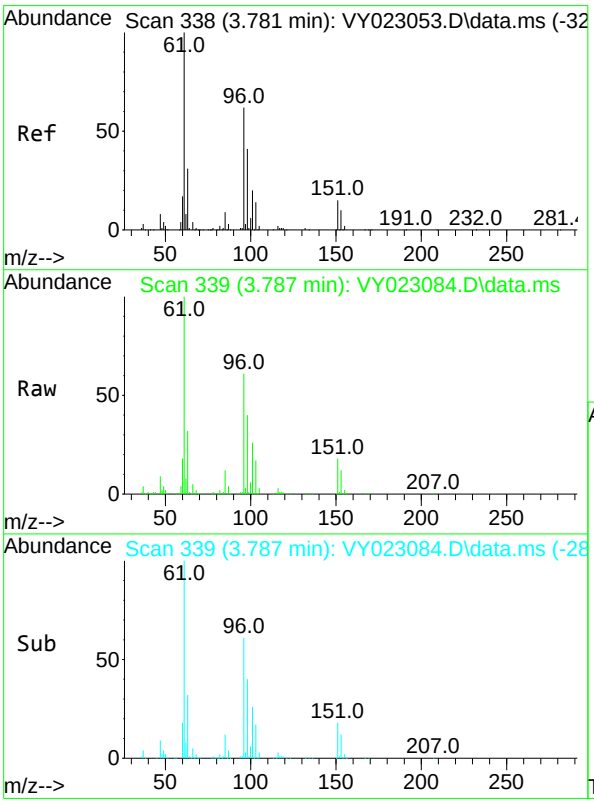

#11
Tert butyl alcohol
Concen: 216.906 ug/l
RT: 4.854 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 59 Resp: 58207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 11.0 | 8.6 | 13.0 |

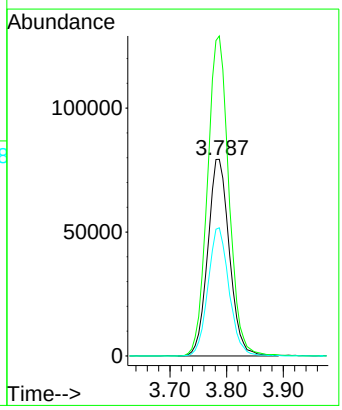


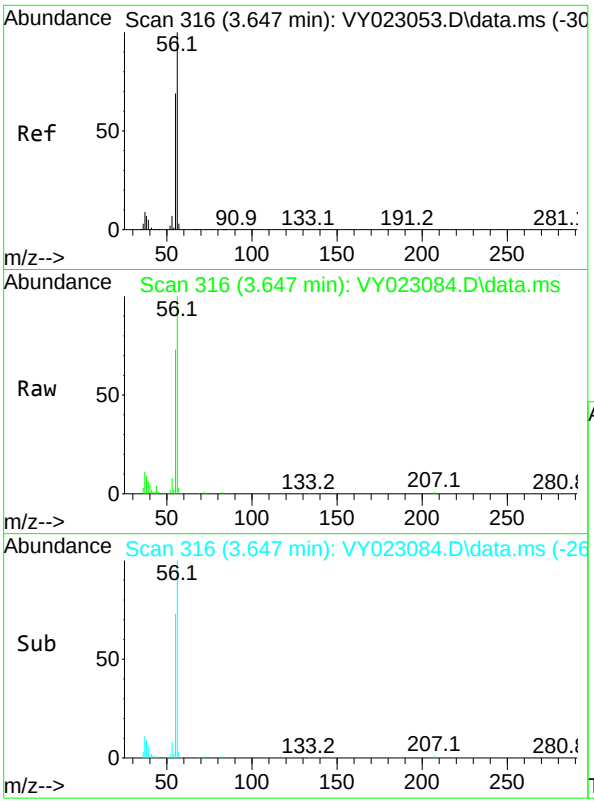




#12
1,1-Dichloroethene
Concen: 53.125 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 96 Resp: 210368

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 162.8 | 129.4 | 194.2 |
| 98 | 65.2 | 52.8 | 79.2 |



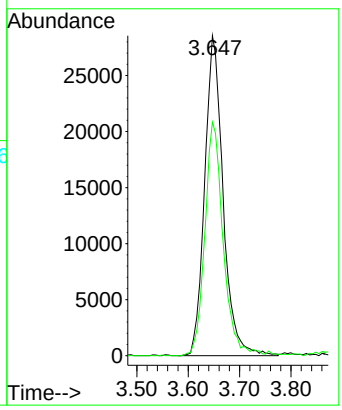


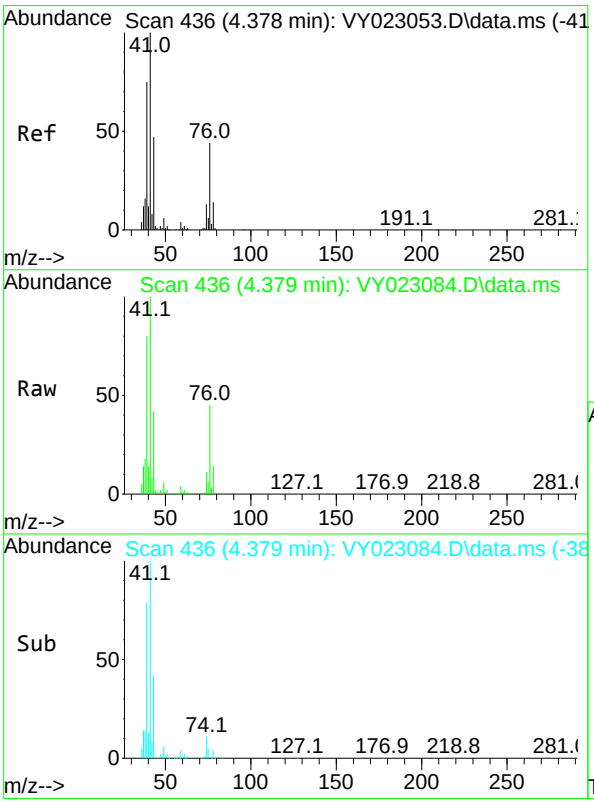

#13
Acrolein
Concen: 180.505 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 56 Resp: 70939

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 72.8 | 55.2 | 82.8 |

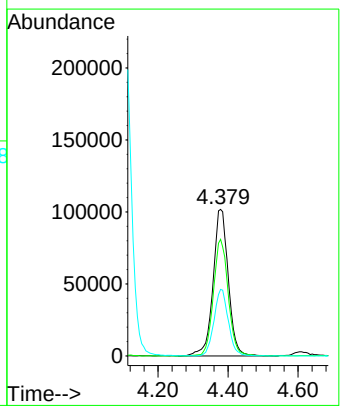


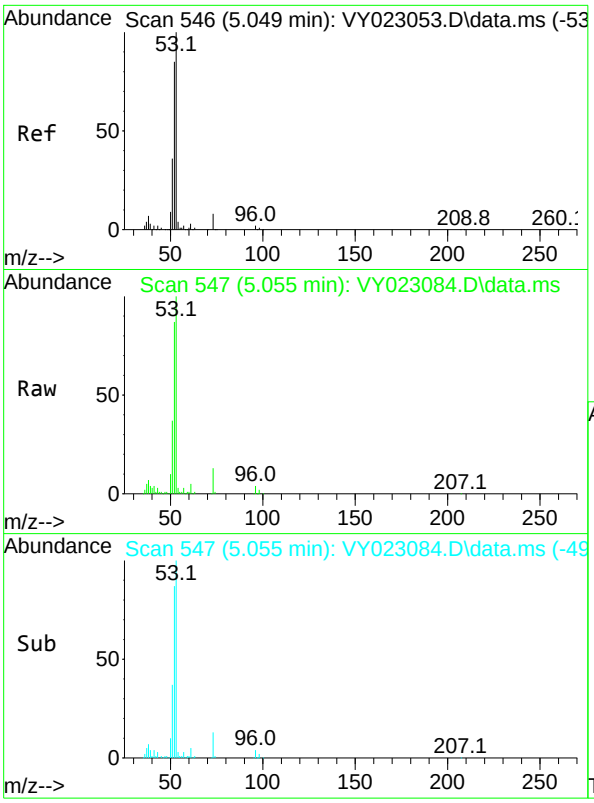




#14
Allyl chloride
Concen: 53.120 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 41 Resp: 309516

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 77.3 | 59.8 | 89.6 |
| 76 | 42.3 | 33.7 | 50.5 |



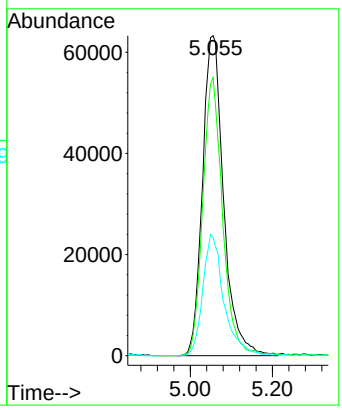


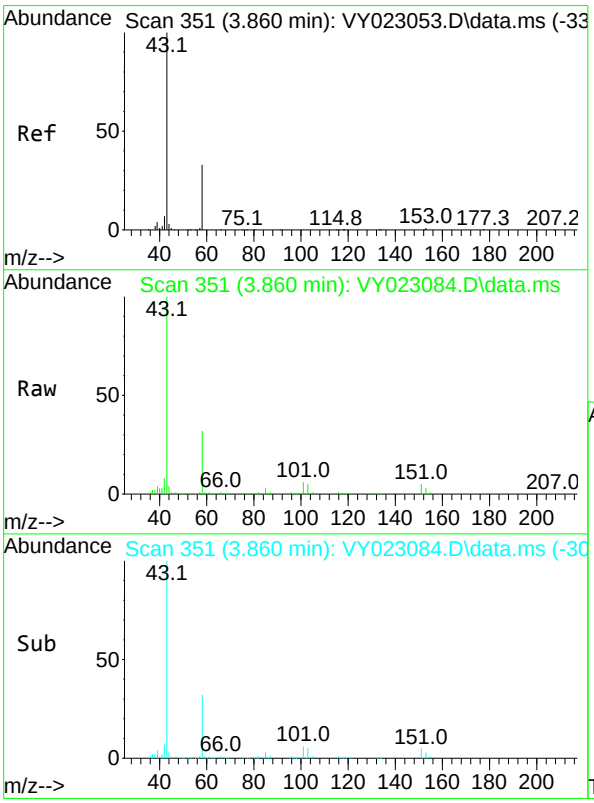

#15
Acrylonitrile
Concen: 257.151 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 53 Resp: 225862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.1 | 65.3 | 97.9 |
| 51 | 37.6 | 29.5 | 44.3 |

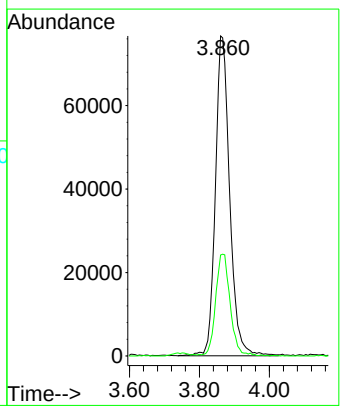


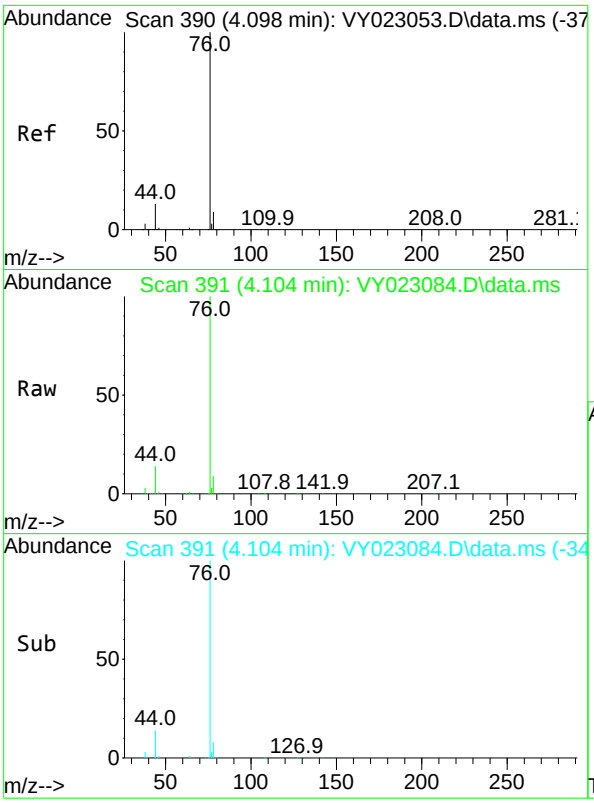




#16
Acetone
Concen: 256.214 ug/l
RT: 3.860 min Scan# 351
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 43 Resp: 217392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.5 | 27.1 | 40.7 |



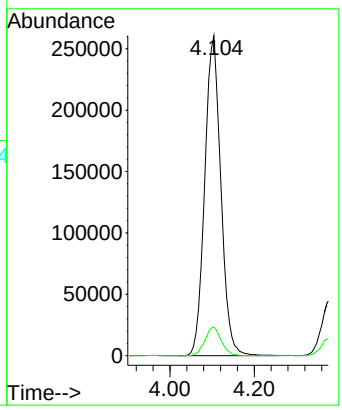


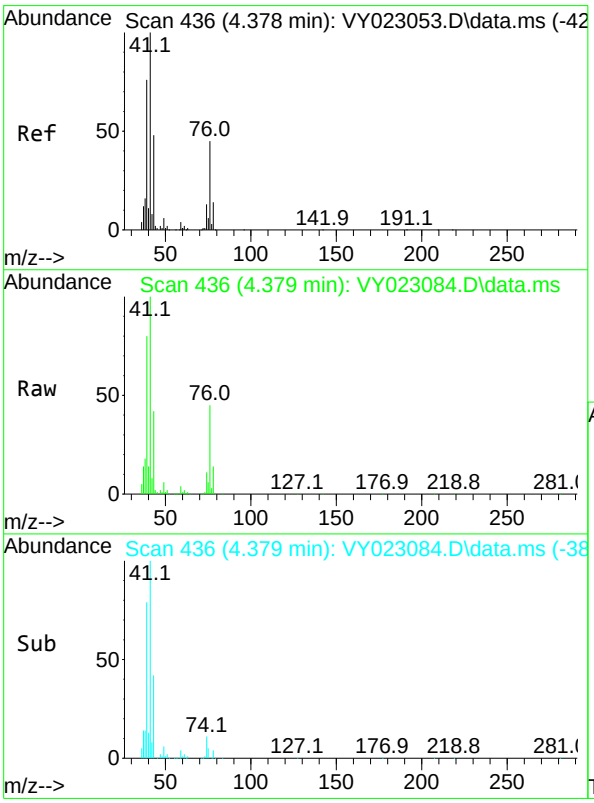

#17
Carbon Disulfide
Concen: 53.714 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 76 Resp: 693545

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.9 | 7.4 | 11.2 |

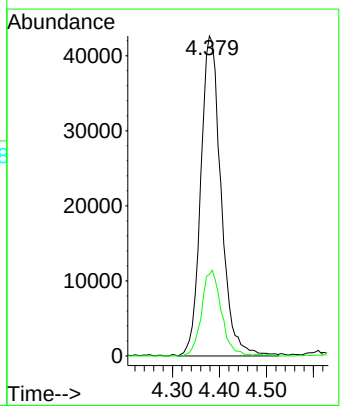


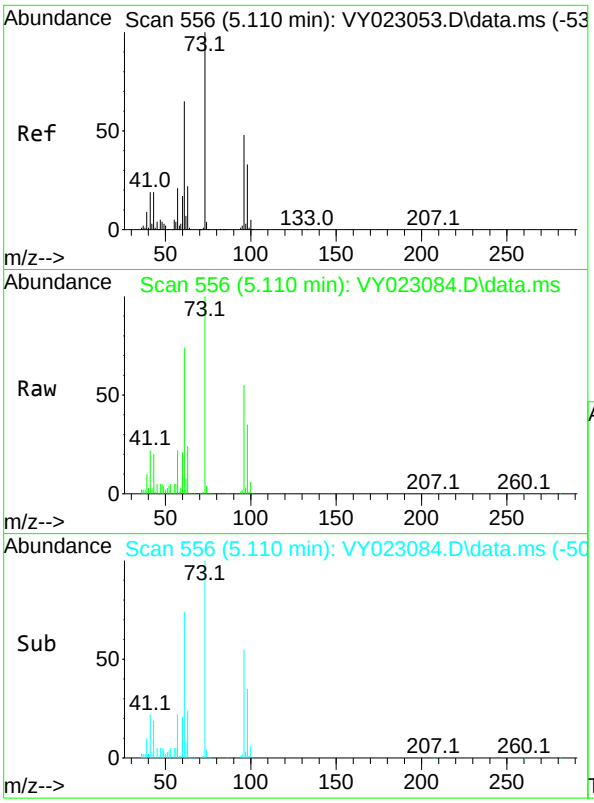




#18
Methyl Acetate
Concen: 50.608 ug/l
RT: 4.379 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 43 Resp: 127782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 26.0 | 21.2 | 31.8 |



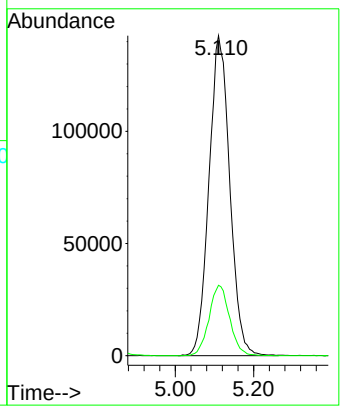


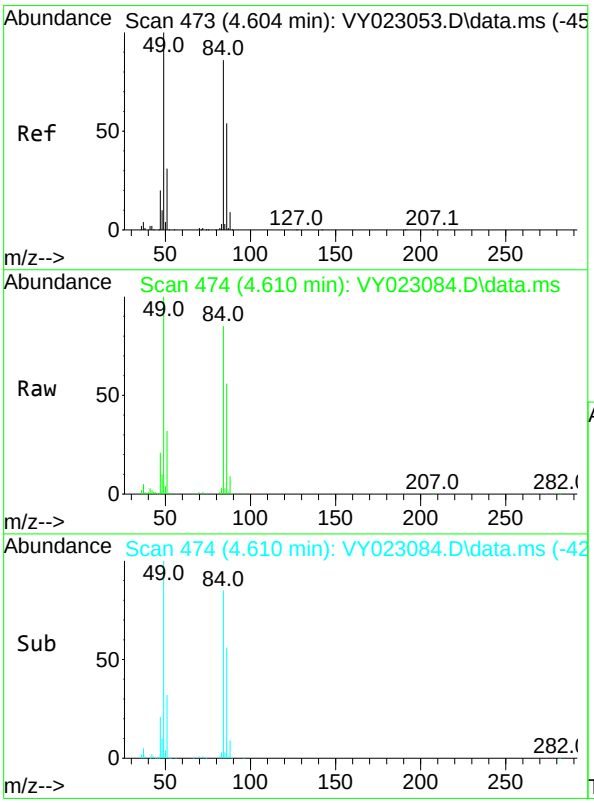

#19
Methyl tert-butyl Ether
Concen: 51.188 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 73 Resp: 525251

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.0 | 17.1 | 25.7 |

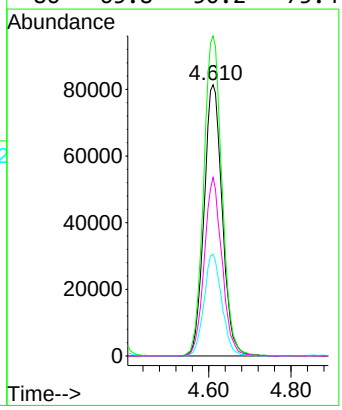


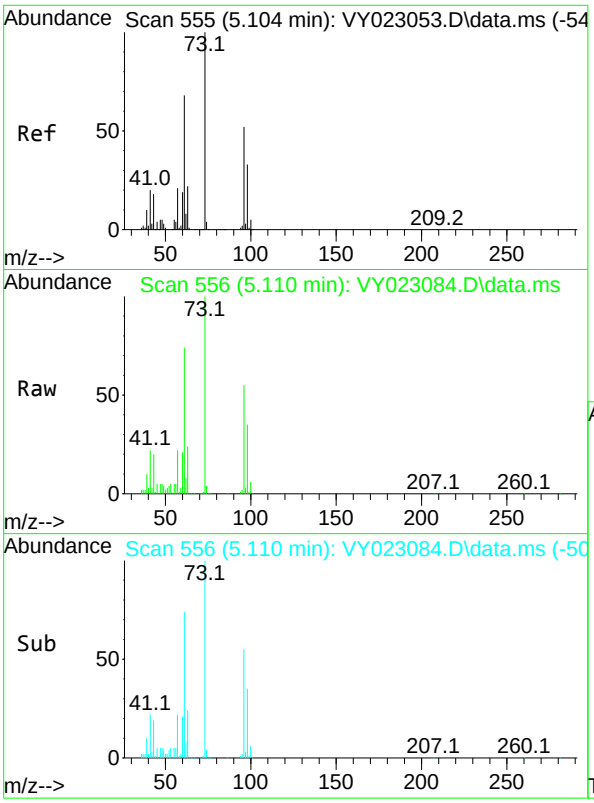




#20
Methylene Chloride
Concen: 57.006 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 84 Resp: 249658

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 117.9 | 93.0 | 139.6 |
| 51 | 37.5 | 29.0 | 43.4 |
| 86 | 65.8 | 50.2 | 75.4 |



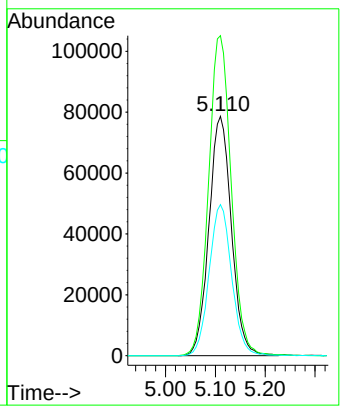


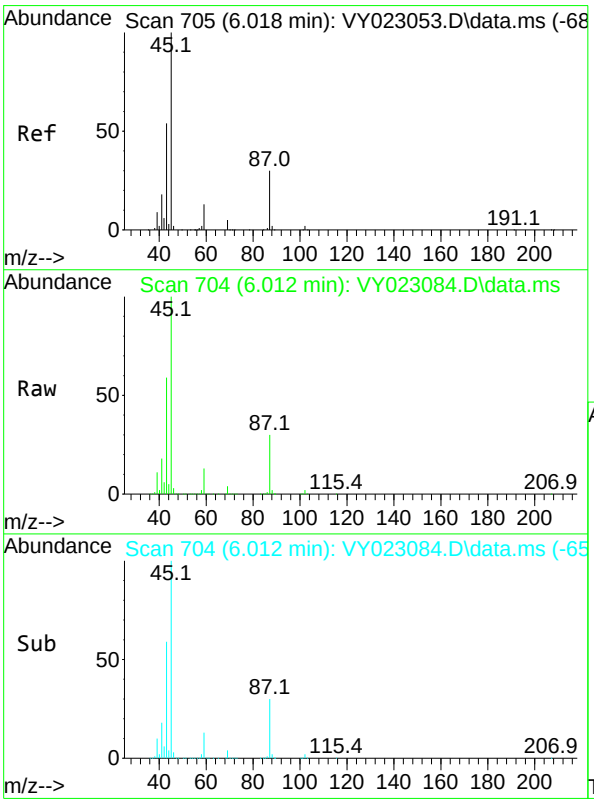

#21
trans-1,2-Dichloroethene
Concen: 55.278 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 96 Resp: 245991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 133.6 | 104.8 | 157.2 |
| 98 | 63.1 | 50.1 | 75.1 |

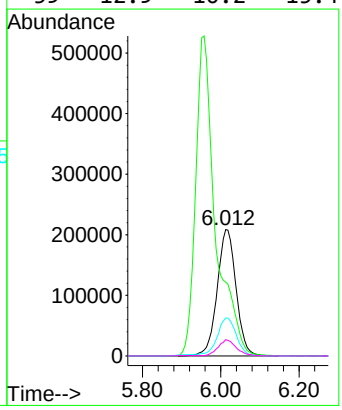


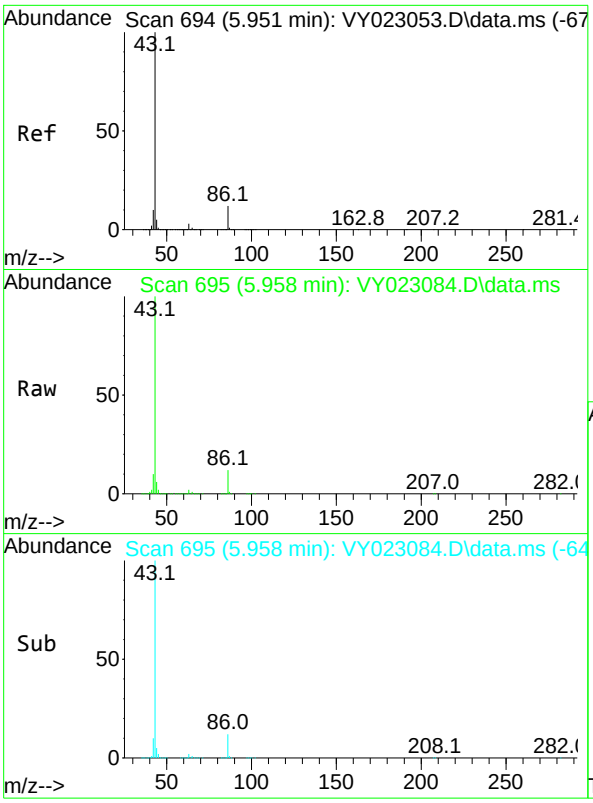




#22
Diisopropyl ether
Concen: 55.396 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 45 Resp: 701401

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 58.3 | 43.4 | 65.0 |
| 87 | 29.9 | 24.4 | 36.6 |
| 59 | 12.9 | 10.2 | 15.4 |



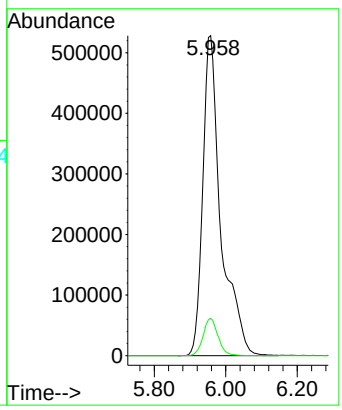


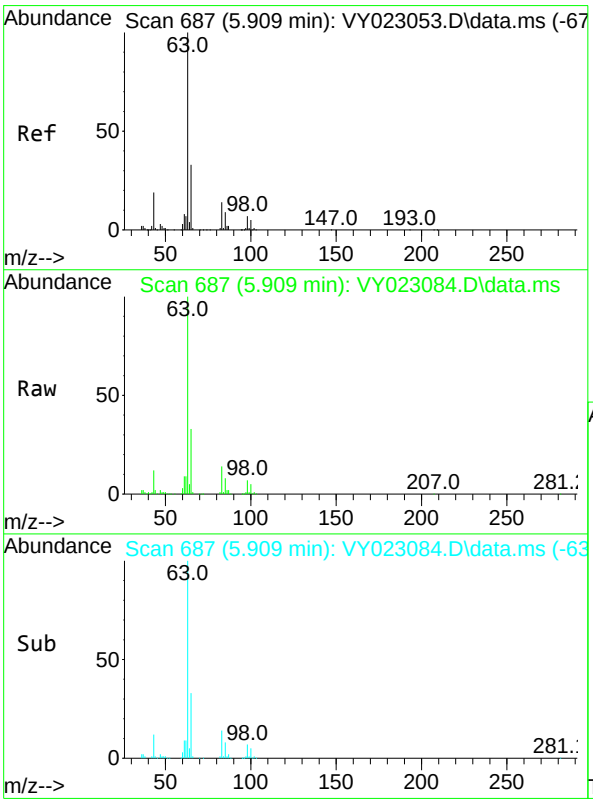

#23
Vinyl Acetate
Concen: 265.520 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 1858955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.7 | 9.6 | 14.4 |

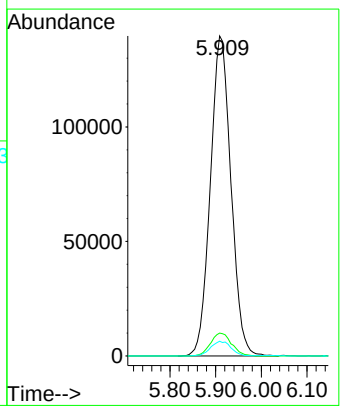


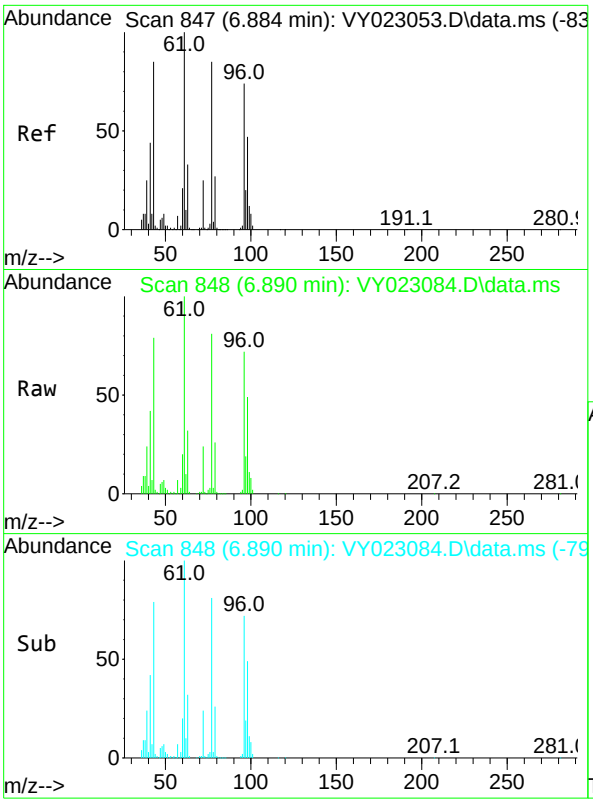




#24
1,1-Dichloroethane
Concen: 56.544 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 63 Resp: 437716

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.1 | 3.5 | 10.6 |
| 100 | 4.6 | 2.4 | 7.1 |



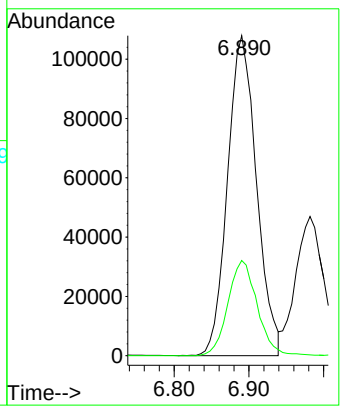


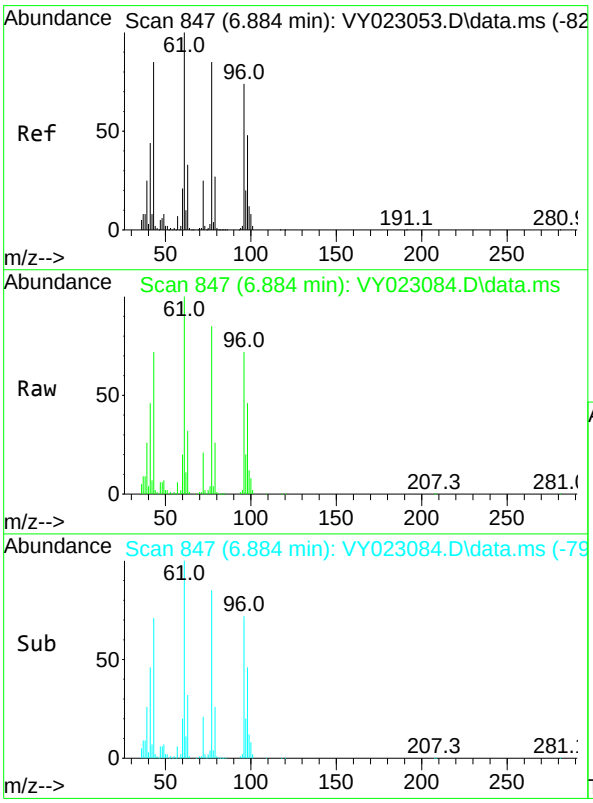

#25
2-Butanone
Concen: 252.314 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 291161

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 29.8 | 23.5 | 35.3 |

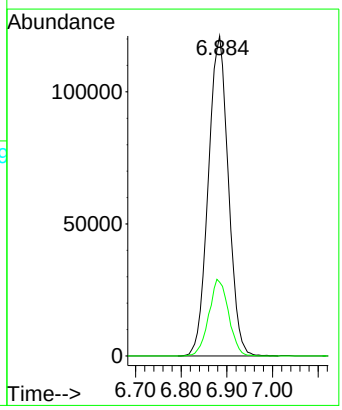


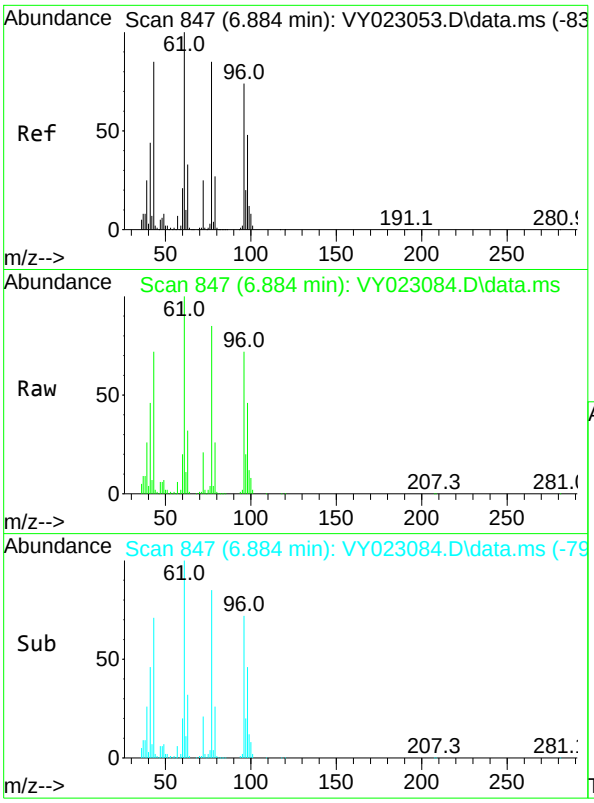




#26
2,2-Dichloropropane
Concen: 55.247 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 77 Resp: 369032

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.6 | 11.6 | 34.8 |



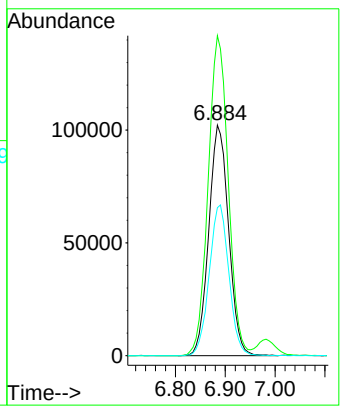


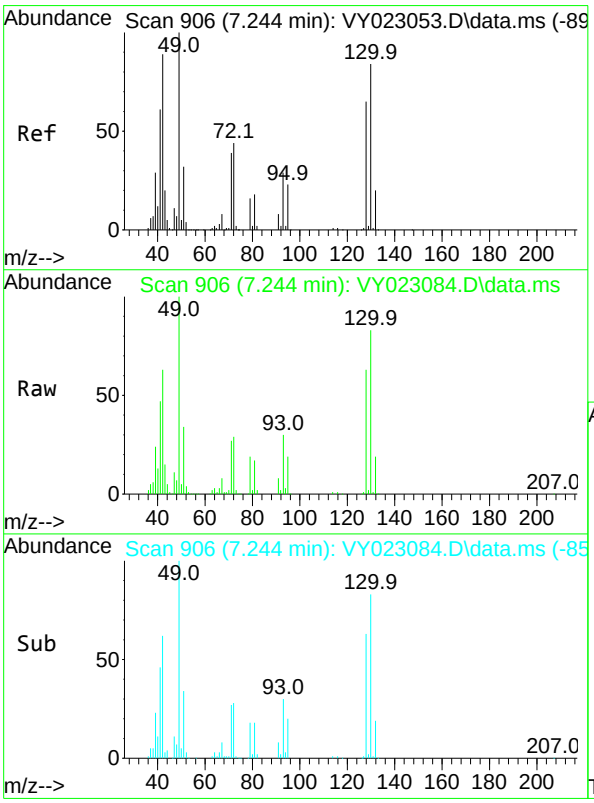

#27
cis-1,2-Dichloroethene
Concen: 54.962 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 96 Resp: 282758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 140.4 | 0.0 | 278.6 |
| 98 | 64.9 | 0.0 | 130.4 |

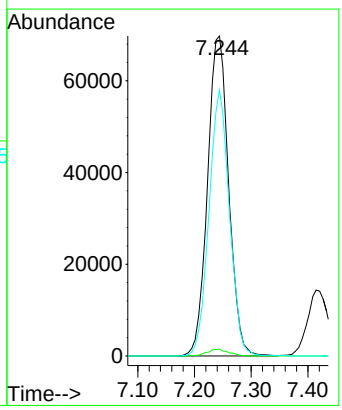


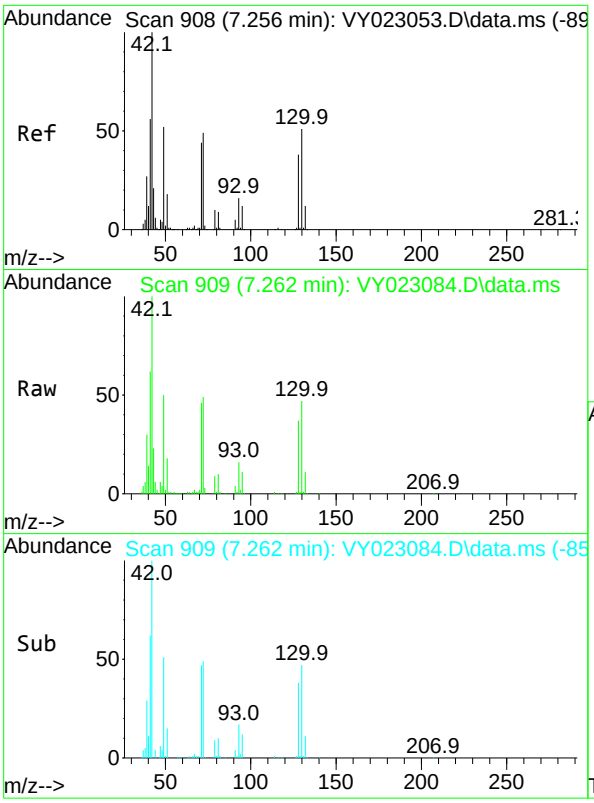




#28
Bromochloromethane
Concen: 58.812 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 49 Resp: 180624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.2 | 0.0 | 4.2 |
| 130 | 80.4 | 66.4 | 99.6 |



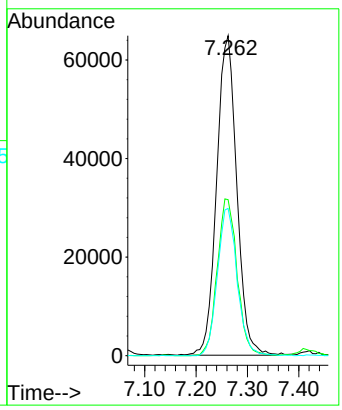


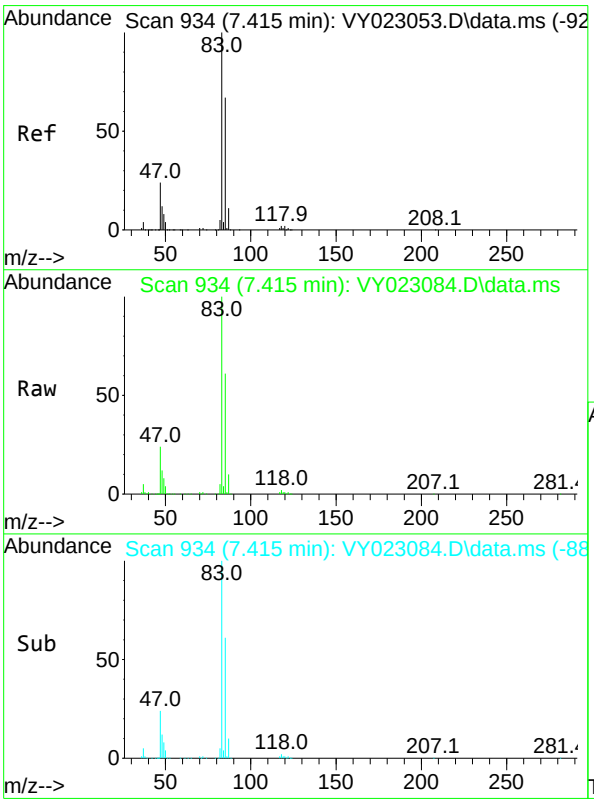

#29
Tetrahydrofuran
Concen: 246.358 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 42 Resp: 176218

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 48.6 | 39.4 | 59.2 |
| 71 | 45.4 | 36.5 | 54.7 |

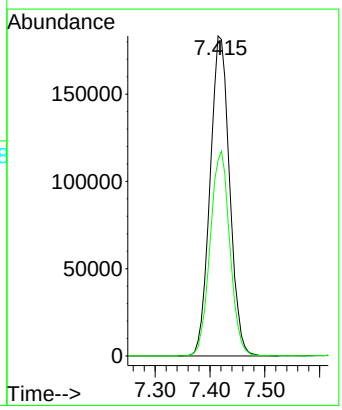


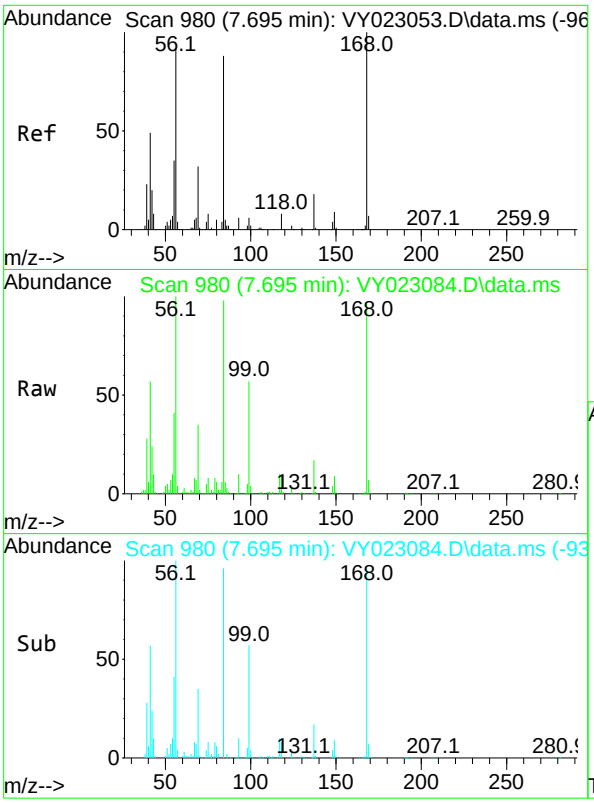




#30
Chloroform
Concen: 56.703 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 83 Resp: 452700

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 61.1 | 53.8 | 80.8 |



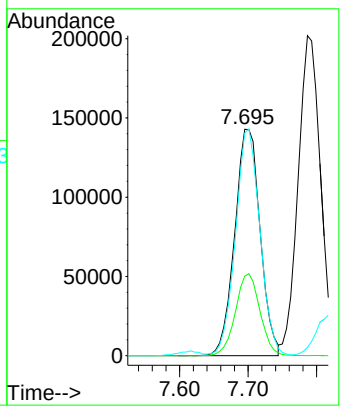


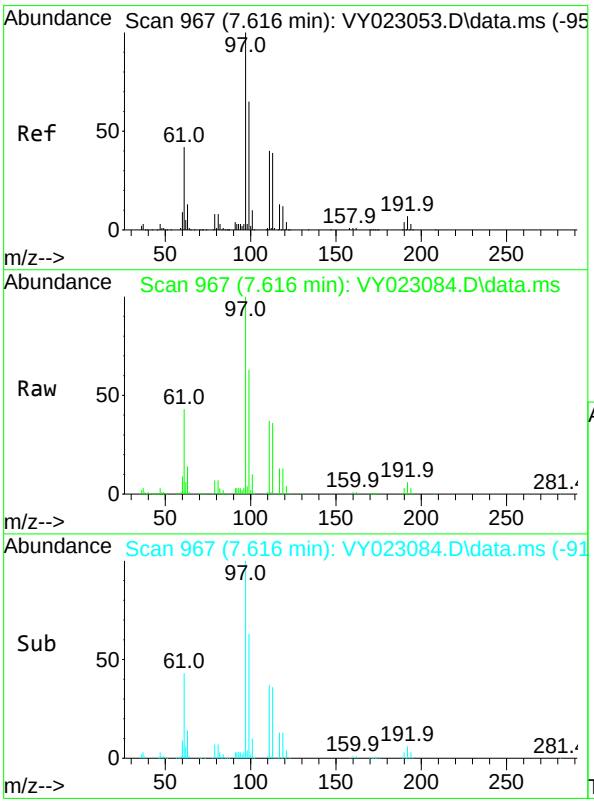

#31
Cyclohexane
Concen: 50.659 ug/l
RT: 7.695 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 56 Resp: 369548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 35.1 | 28.2 | 42.2 |
| 84 | 97.3 | 76.6 | 114.8 |

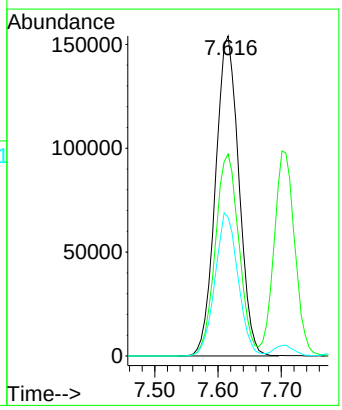


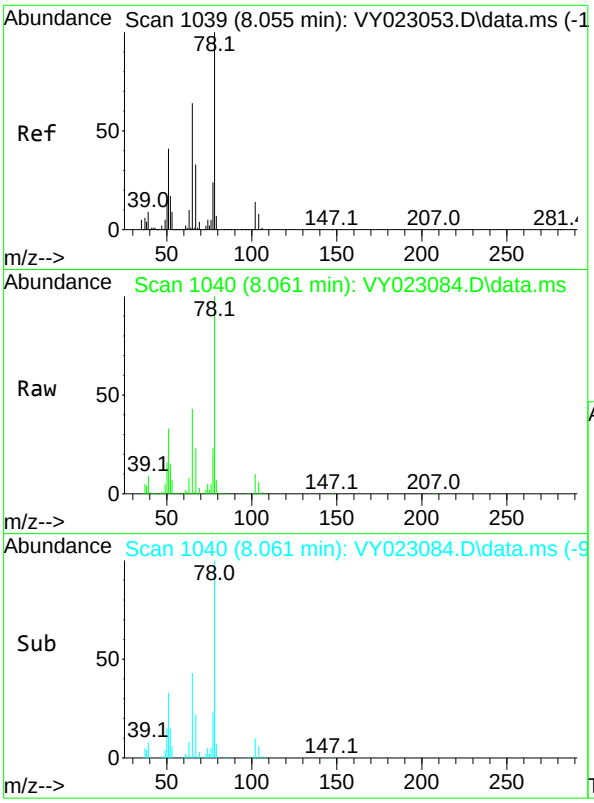




#32
1,1,1-Trichloroethane
Concen: 55.782 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 97 Resp: 395153

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.9 | 51.6 | 77.4 |
| 61 | 44.1 | 34.2 | 51.2 |



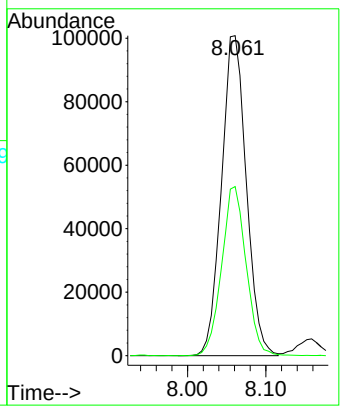


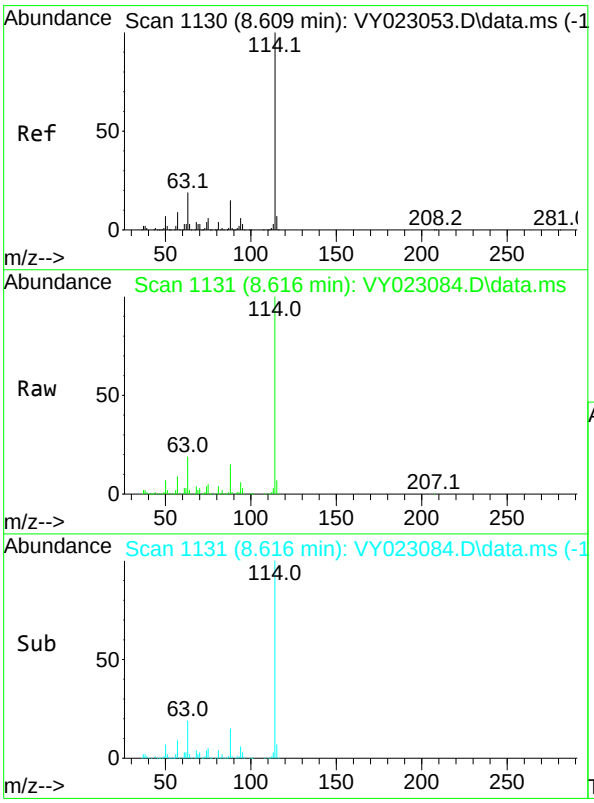

#33
1,2-Dichloroethane-d4
Concen: 56.681 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 65 Resp: 221987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.2 | 0.0 | 106.8 |

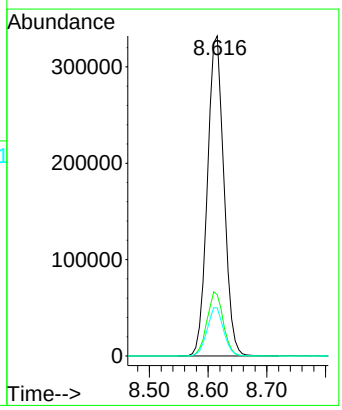


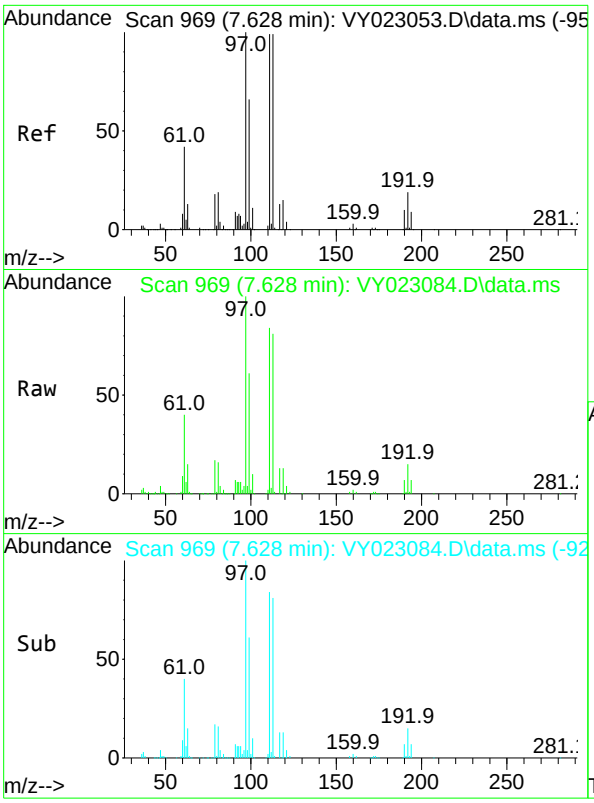




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:114 Resp: 647551

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.1 | 0.0 | 38.4 |
| 88 | 15.0 | 0.0 | 30.0 |



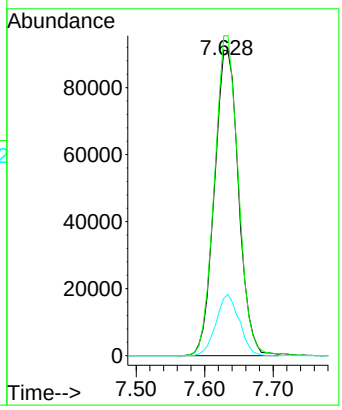


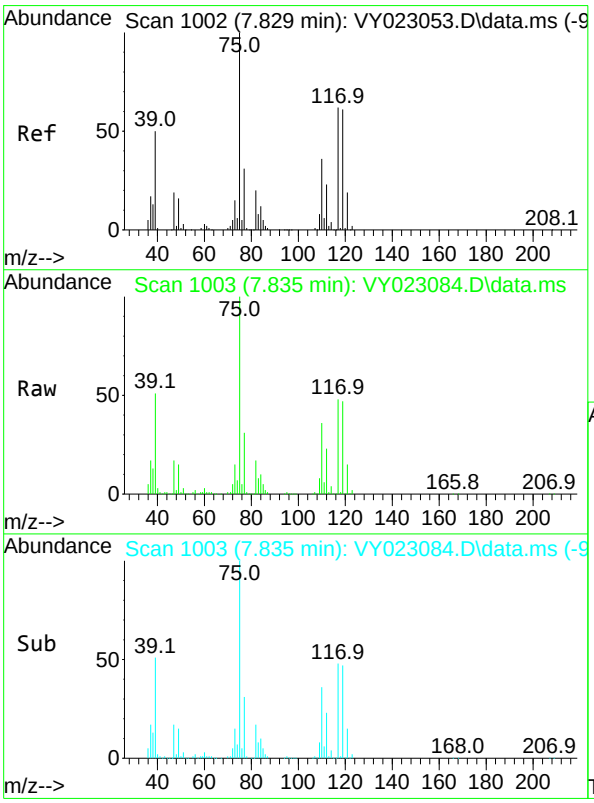

#35
Dibromofluoromethane
Concen: 57.573 ug/l
RT: 7.628 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:113 Resp: 223080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.2 | 81.1 | 121.7 |
| 192 | 19.3 | 16.2 | 24.4 |

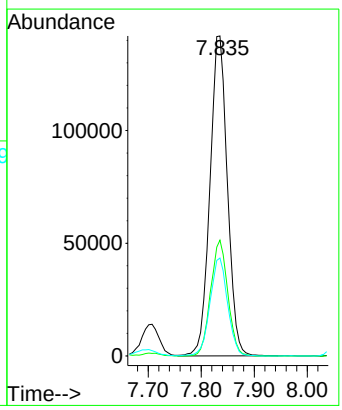


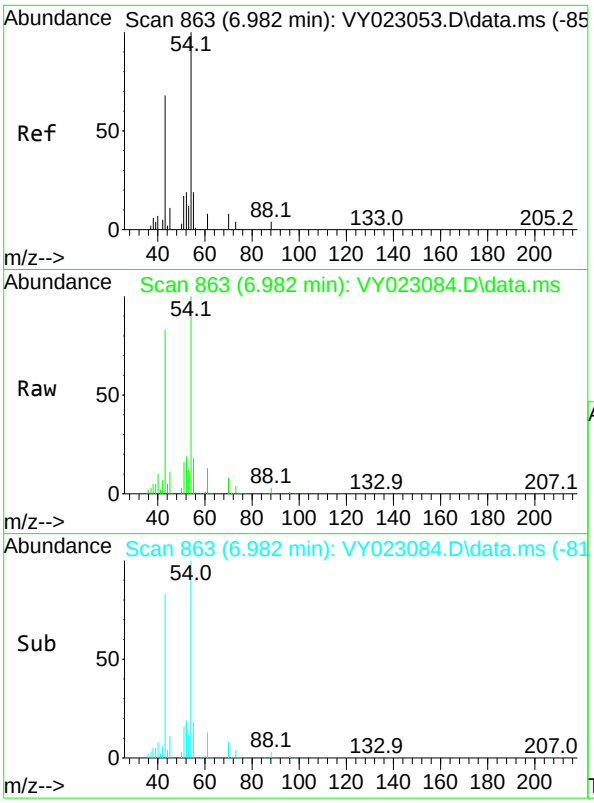




#36
1,1-Dichloropropene
Concen: 56.356 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 75 Resp: 324519

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.6 | 18.1 | 54.4 |
| 77 | 30.9 | 24.6 | 37.0 |



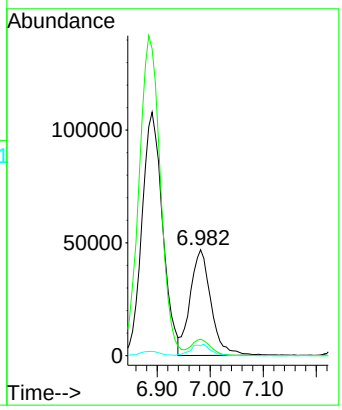


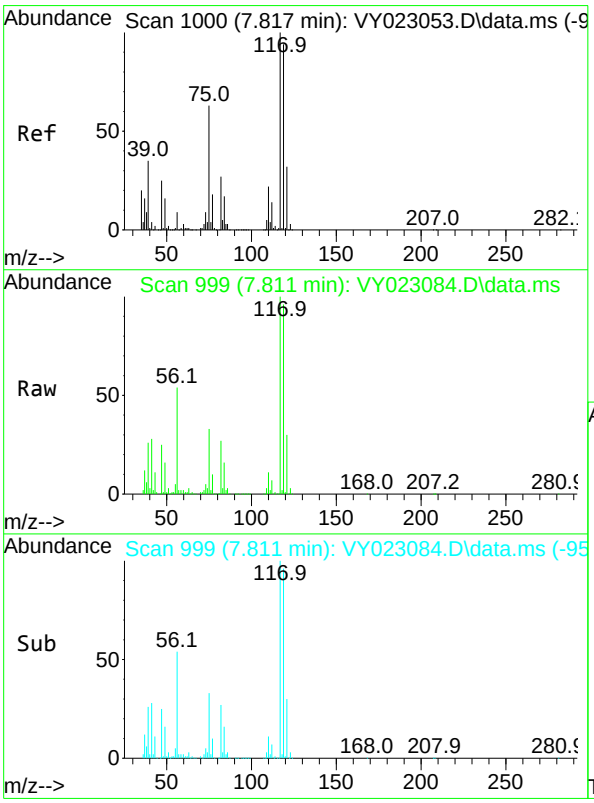

#37
Ethyl Acetate
Concen: 52.667 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 127399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.1 | 11.9 | 17.9 |
| 70 | 10.3 | 8.8 | 13.2 |

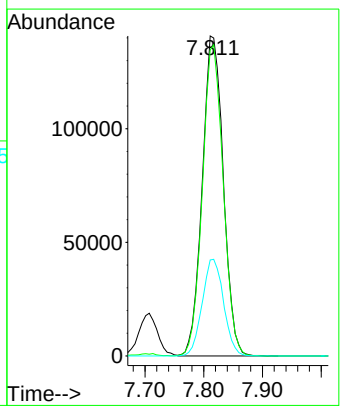


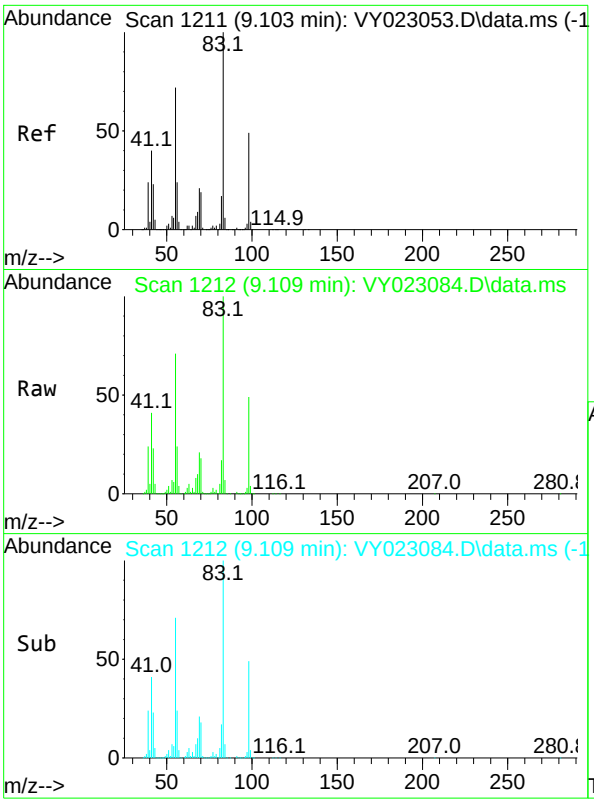




#38
Carbon Tetrachloride
Concen: 56.181 ug/l
RT: 7.811 min Scan# 999
Delta R.T. -0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:117 Resp: 351380

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.6 | 75.6 | 113.4 |
| 121 | 30.0 | 25.8 | 38.8 |



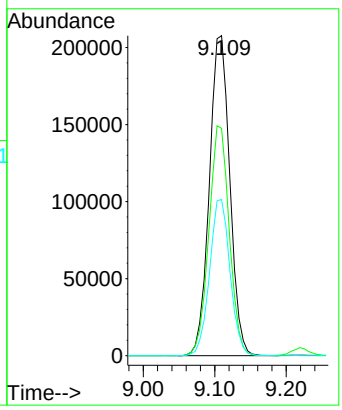


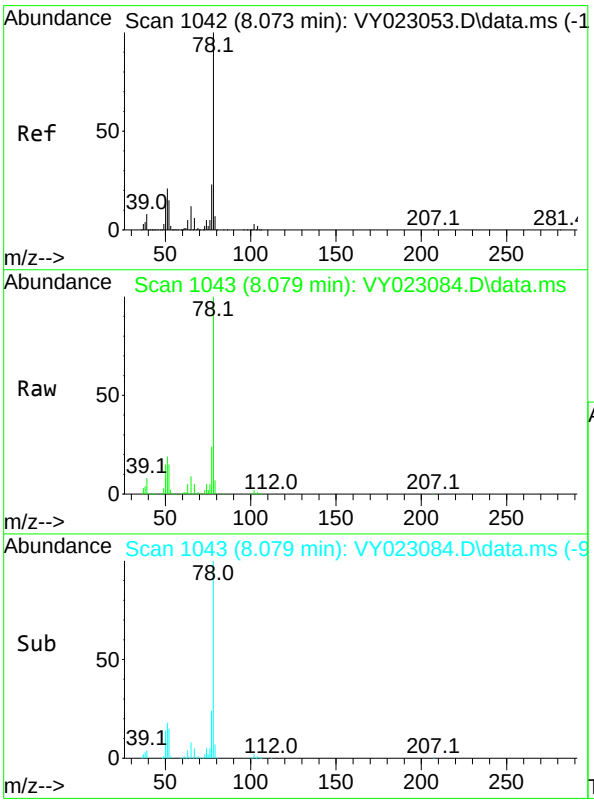

#39
Methylcyclohexane
Concen: 54.417 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 83 Resp: 412645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 71.0 | 57.6 | 86.4 |
| 98 | 48.8 | 39.2 | 58.8 |

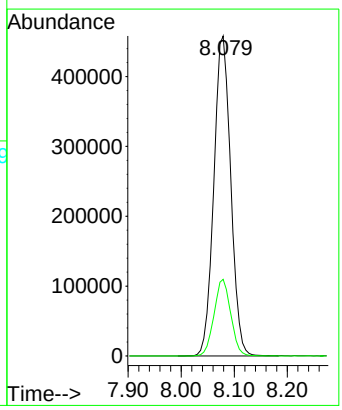


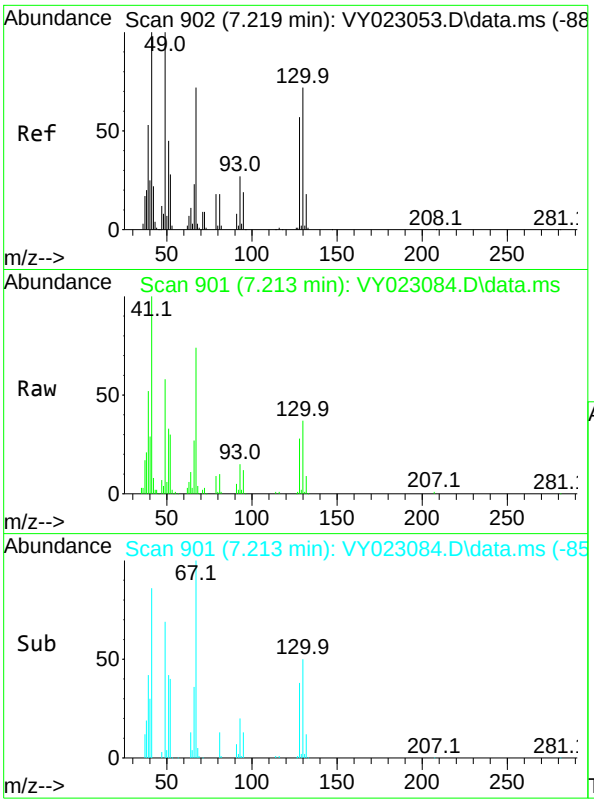




#40
Benzene
Concen: 57.200 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 78 Resp: 1015204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.0 | 18.6 | 28.0 |



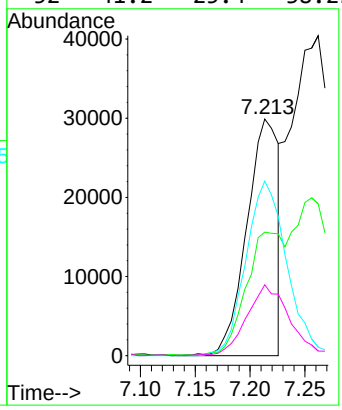


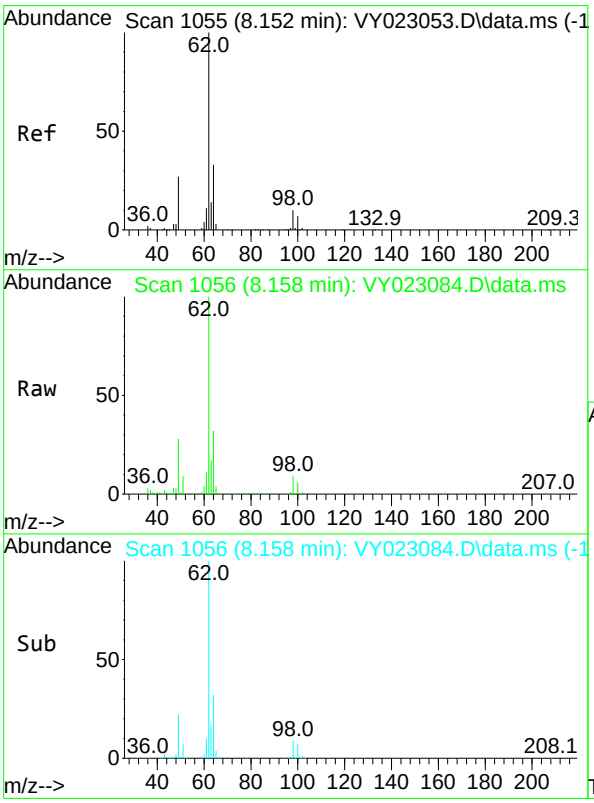

#41
Methacrylonitrile
Concen: 43.117 ug/l
RT: 7.213 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 41 Resp: 60193

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 62.5 | 43.4 | 65.2 |
| 67 | 95.9 | 63.6 | 95.4# |
| 52 | 41.2 | 25.4 | 38.2# |

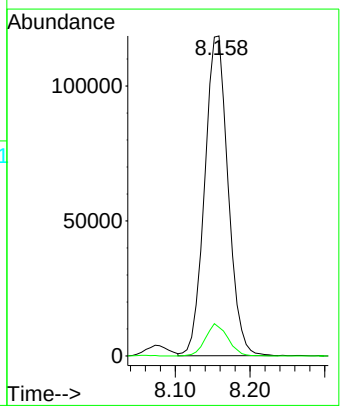


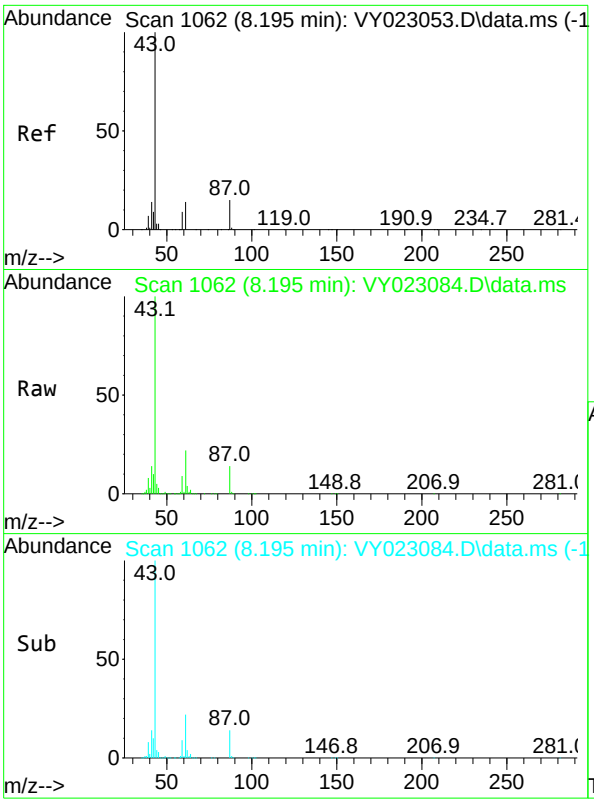




#42
1,2-Dichloroethane
Concen: 55.883 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 62 Resp: 257953

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.6 | 0.0 | 20.6 |



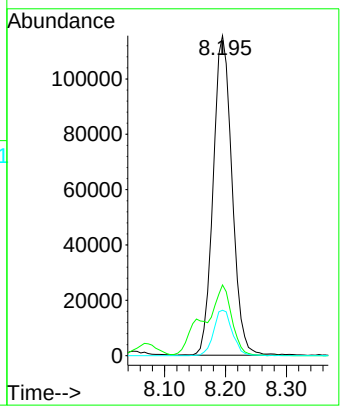


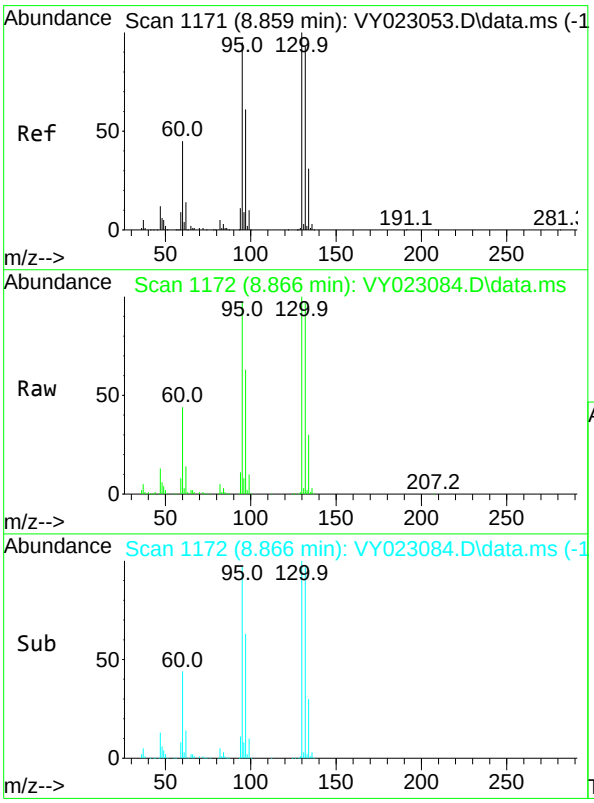

#43
Isopropyl Acetate
Concen: 50.705 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 247901

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 21.2 | 16.4 | 24.6 |
| 87 | 14.2 | 11.8 | 17.6 |

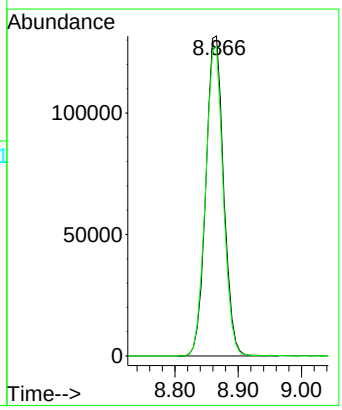


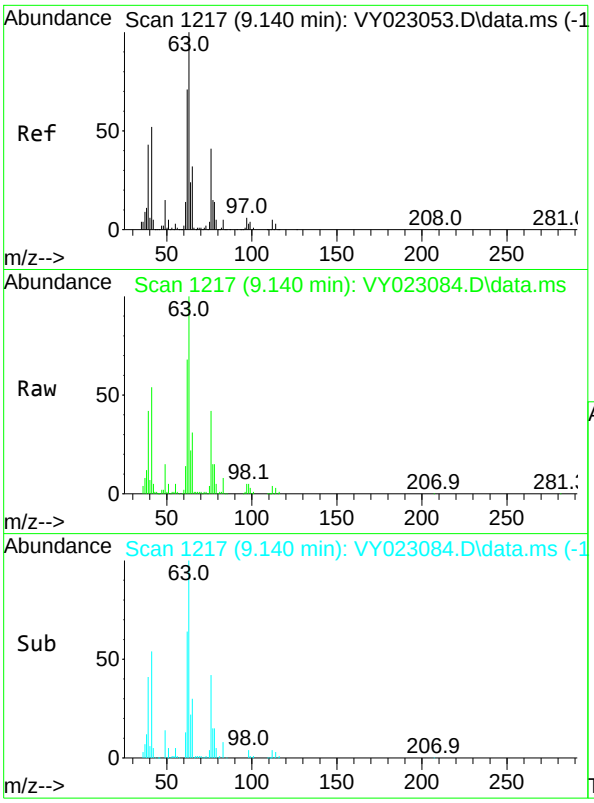




#44
Trichloroethene
Concen: 56.001 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:130 Resp: 256850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 96.7 | 0.0 | 190.2 |



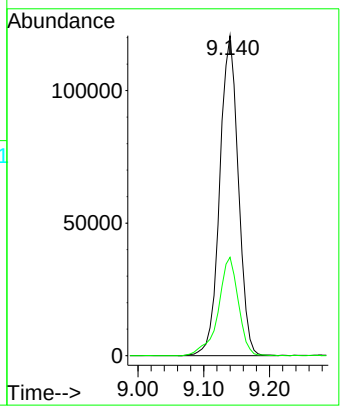


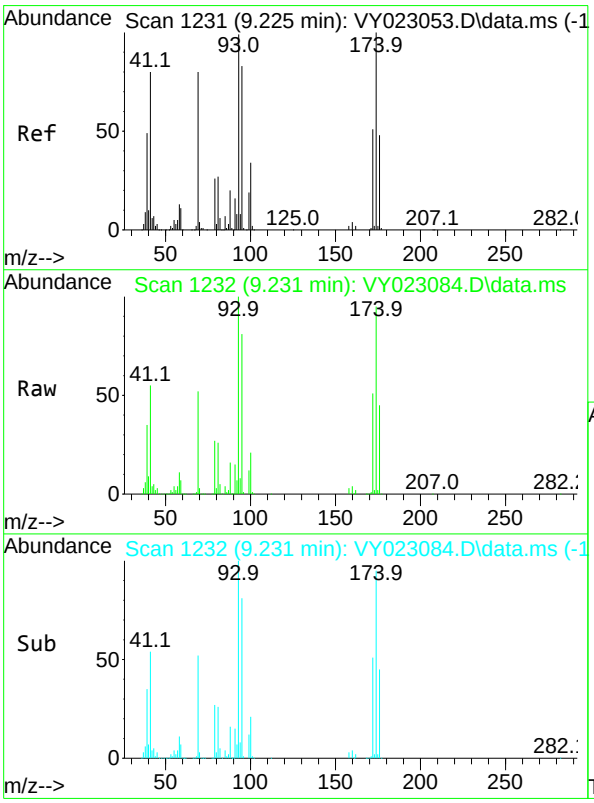

#45
1,2-Dichloropropane
Concen: 58.028 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 63 Resp: 236969

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.7 | 25.3 | 37.9 |

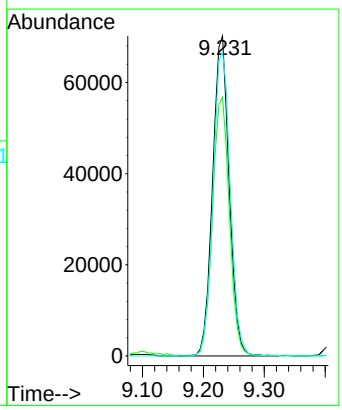


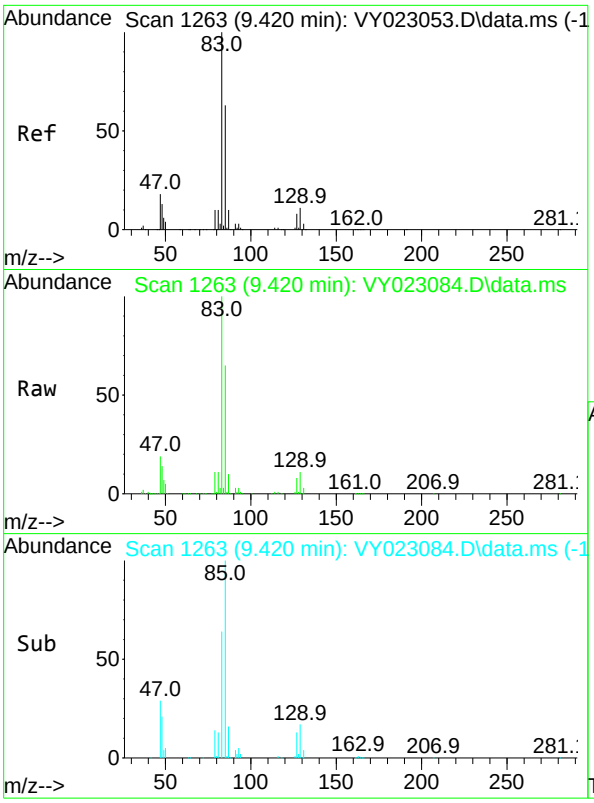




#46
Dibromomethane
Concen: 56.649 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 93 Resp: 132779

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.7 | 66.5 | 99.7 |
| 174 | 98.1 | 81.8 | 122.8 |



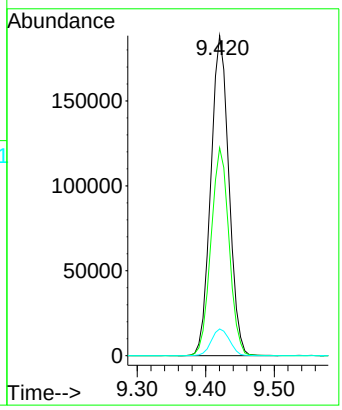


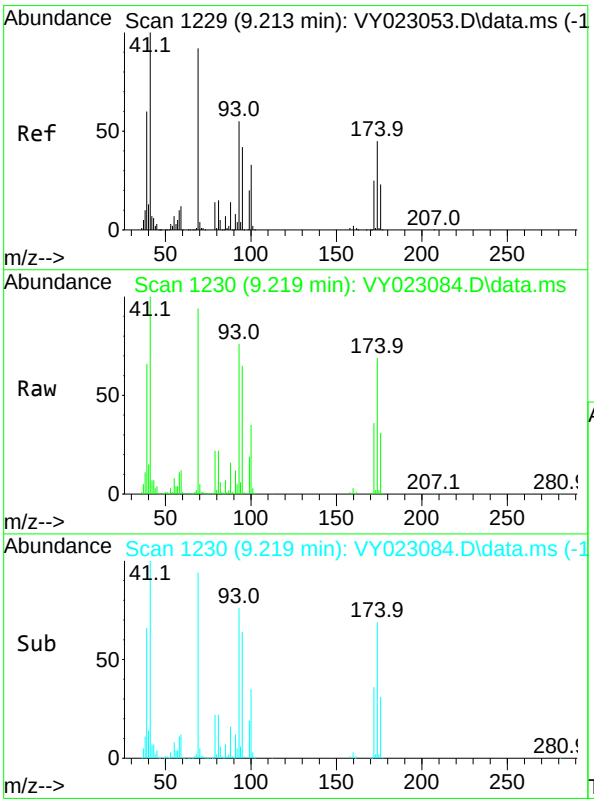

#47
Bromodichloromethane
Concen: 57.122 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 83 Resp: 344511

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.0 | 50.2 | 75.4 |
| 127 | 8.3 | 6.6 | 10.0 |

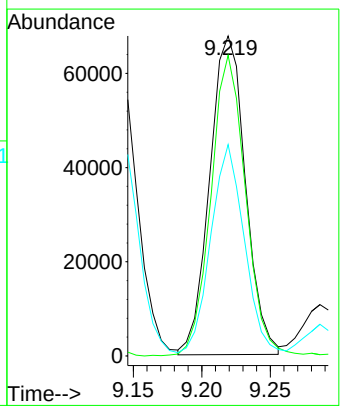


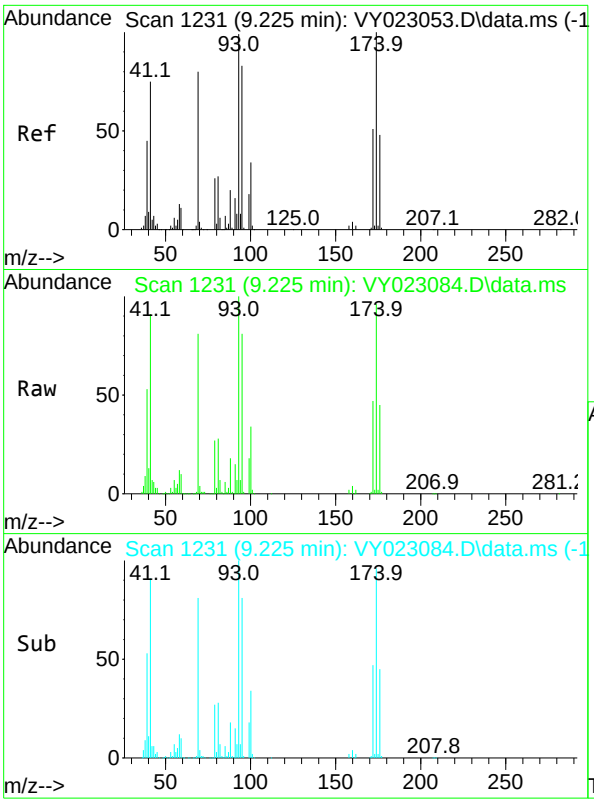




#48
Methyl methacrylate
Concen: 52.585 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 41 Resp: 123024

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 91.9 | 73.2 | 109.8 |
| 39 | 60.6 | 47.0 | 70.4 |



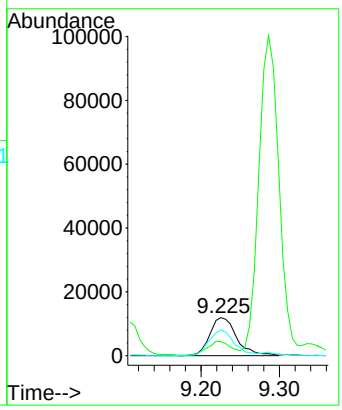


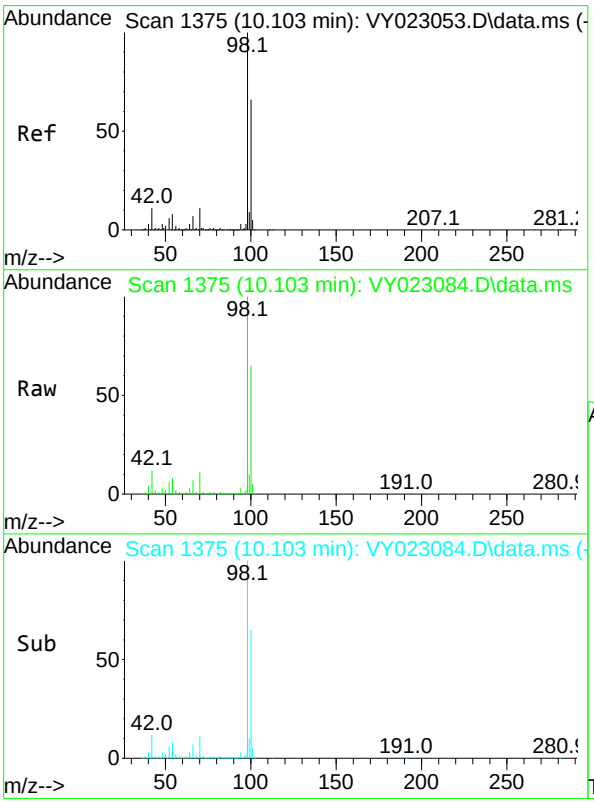

#49
1,4-Dioxane
Concen: 1033.218 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 88 Resp: 28396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 32.2 | 24.3 | 36.5 |
| 58 | 64.3 | 55.4 | 83.0 |

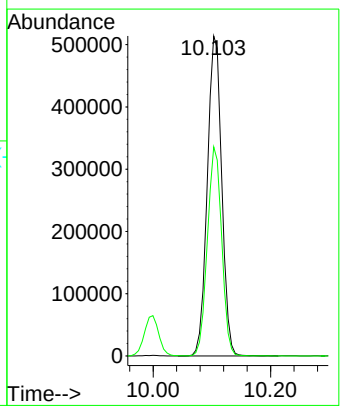


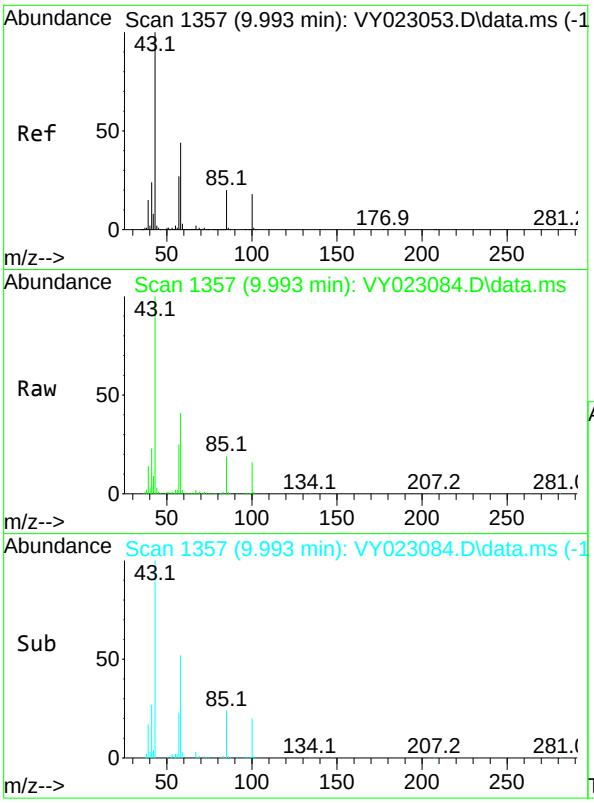




#50
Toluene-d8
Concen: 57.835 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 98 Resp: 875441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.8 | 52.3 | 78.5 |



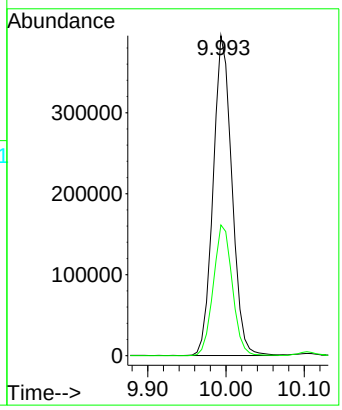


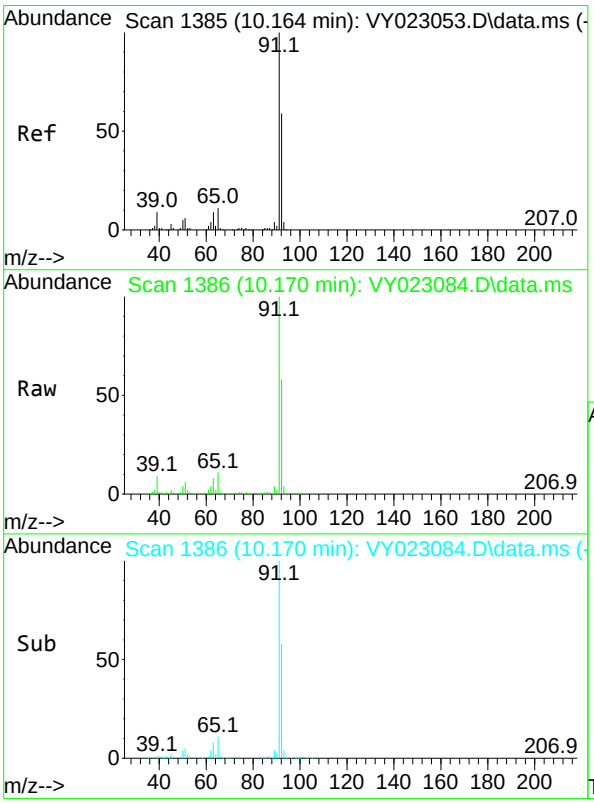

#51
4-Methyl-2-Pentanone
Concen: 260.657 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 657357

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 41.5 | 33.5 | 50.3 |

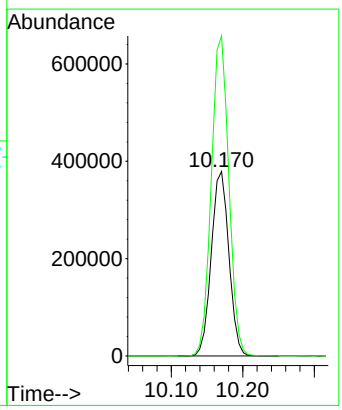


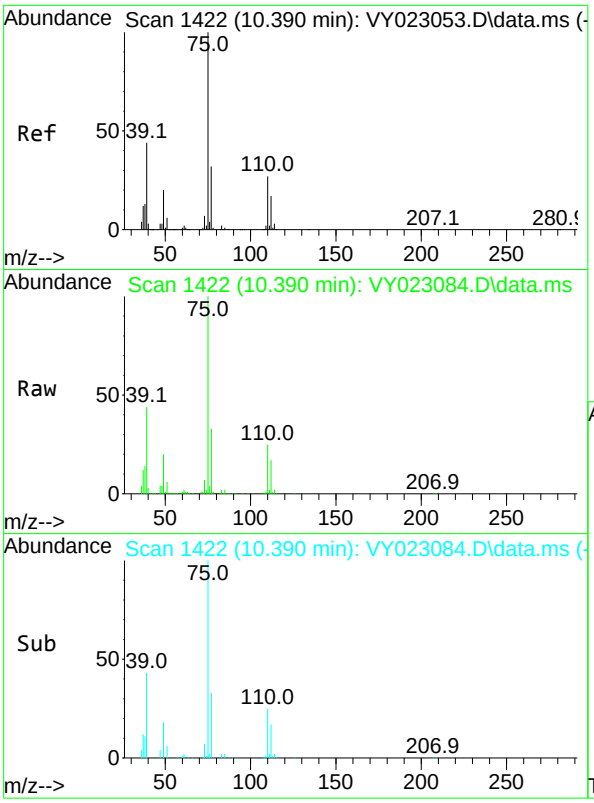




#52
Toluene
Concen: 57.441 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 92 Resp: 647492

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 173.1 | 136.4 | 204.6 |



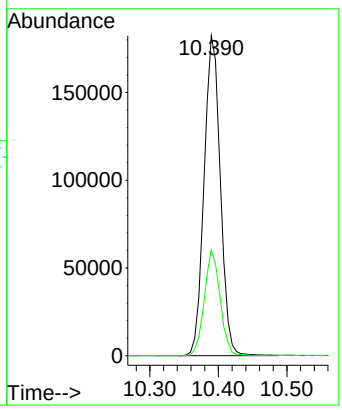


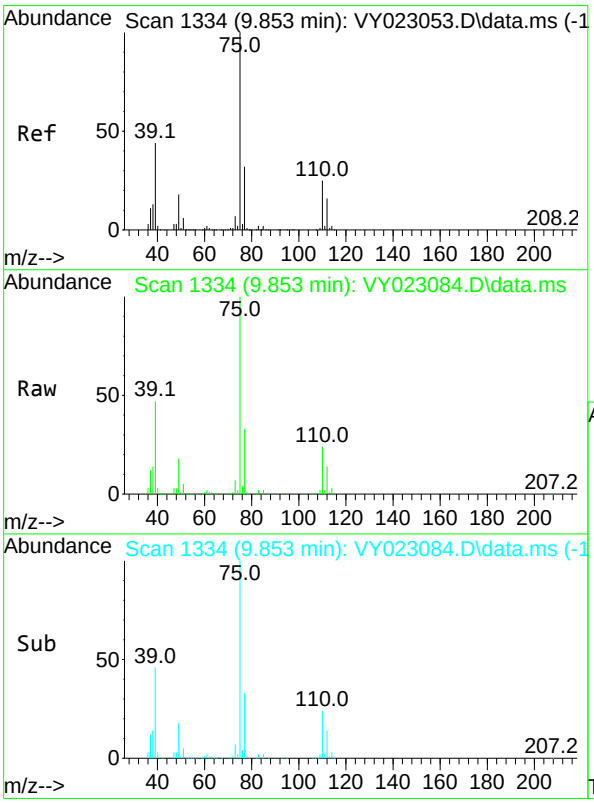

#53
t-1,3-Dichloropropene
Concen: 55.165 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 75 Resp: 301282

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 33.1 | 25.7 | 38.5 |

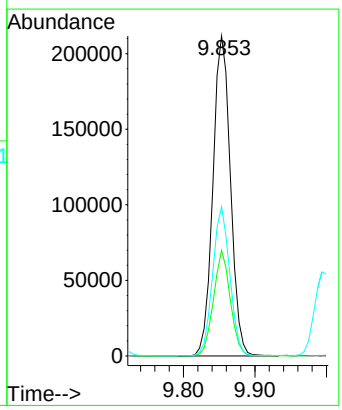


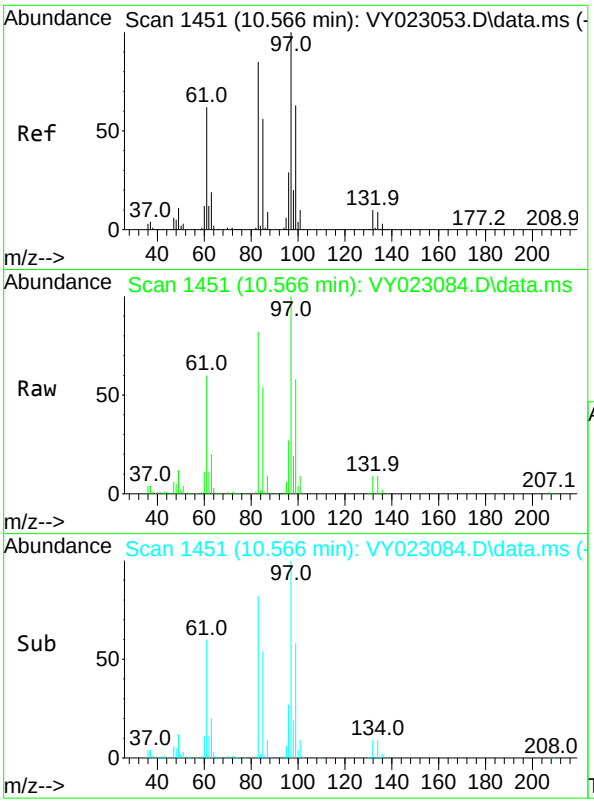




#54
cis-1,3-Dichloropropene
Concen: 55.890 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 75 Resp: 360945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 33.0 | 25.4 | 38.0 |
| 39 | 46.5 | 35.6 | 53.4 |



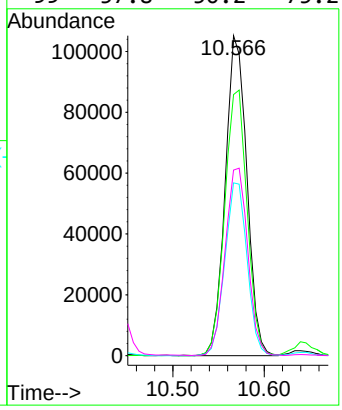


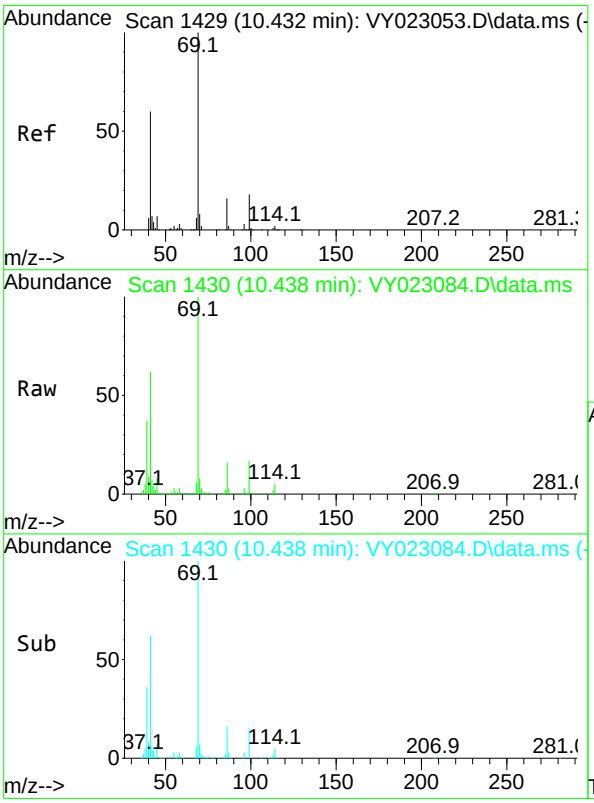

#55
1,1,2-Trichloroethane
Concen: 55.184 ug/l
RT: 10.566 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 97 Resp: 173079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 81.6 | 67.7 | 101.5 |
| 85 | 54.0 | 44.5 | 66.7 |
| 99 | 57.8 | 50.2 | 75.2 |

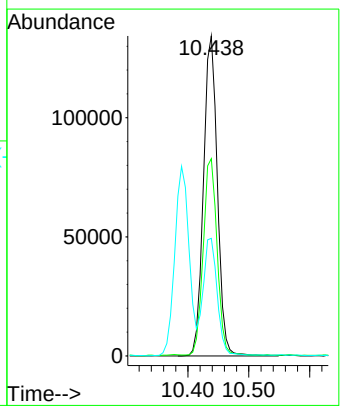


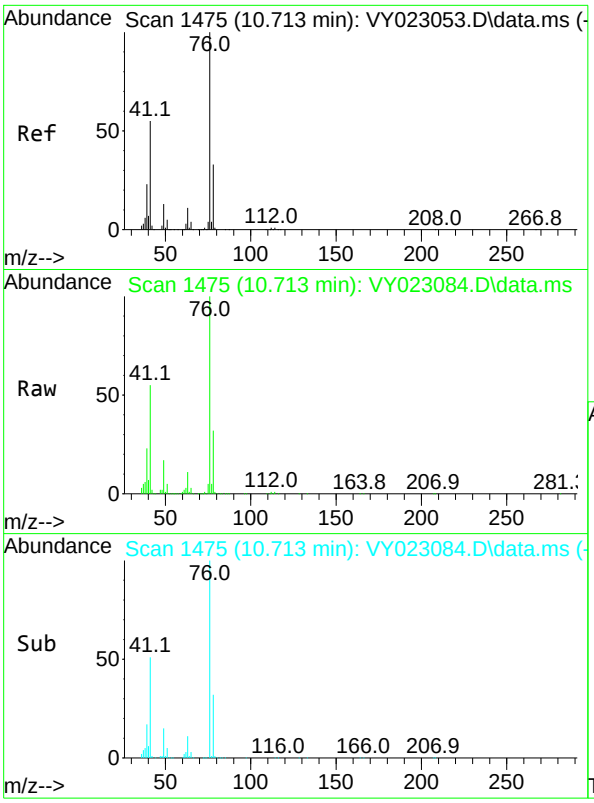




#56
Ethyl methacrylate
Concen: 53.193 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 69 Resp: 213481

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 61.4 | 48.6 | 72.8 |
| 39 | 37.0 | 27.0 | 40.4 |



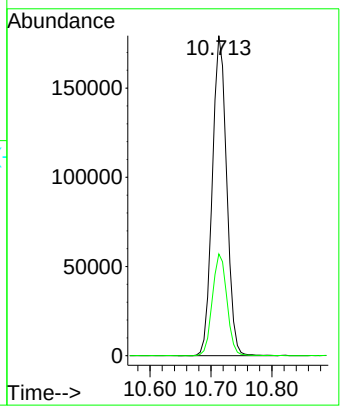


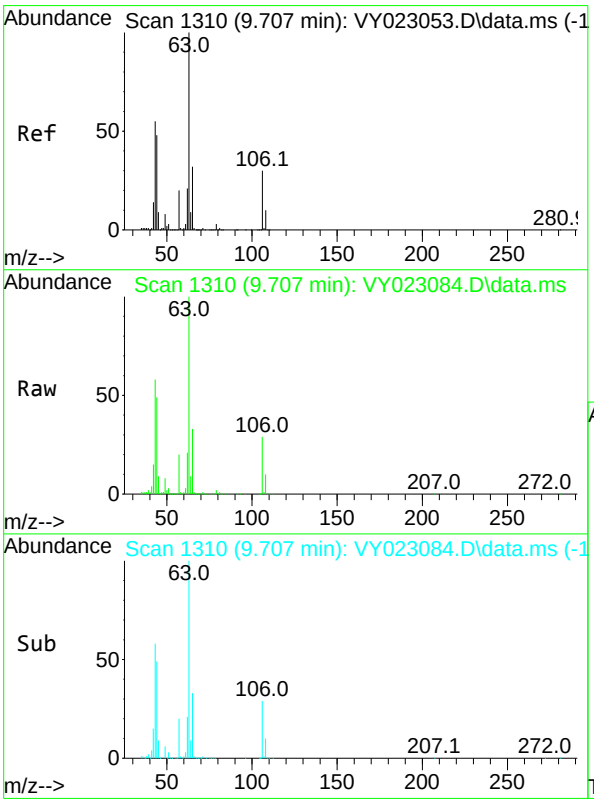

#57
1,3-Dichloropropane
Concen: 55.040 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 76 Resp: 292765

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.4 | 26.0 | 39.0 |

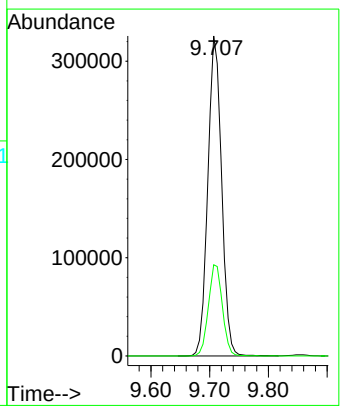


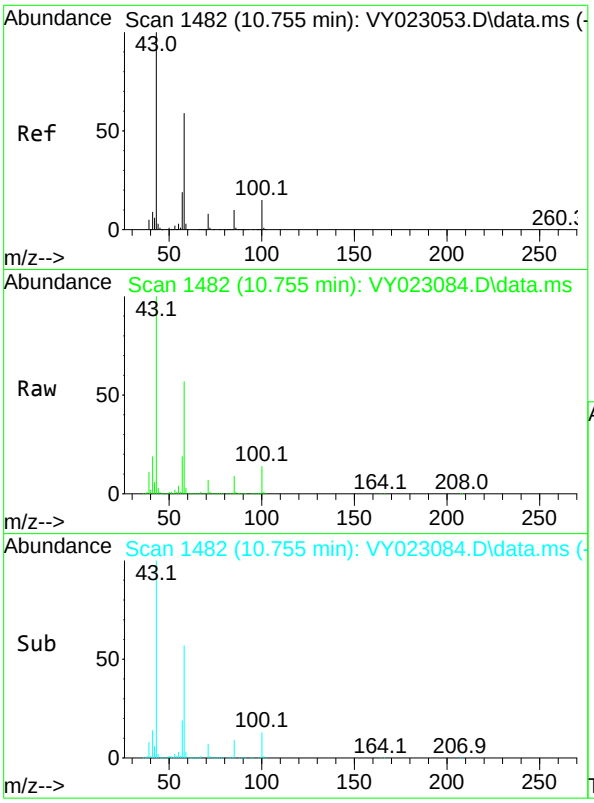




#58
2-Chloroethyl Vinyl ether
Concen: 280.099 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 63 Resp: 530251

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 28.9 | 23.2 | 34.8 |



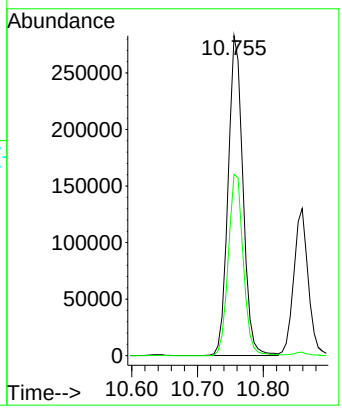


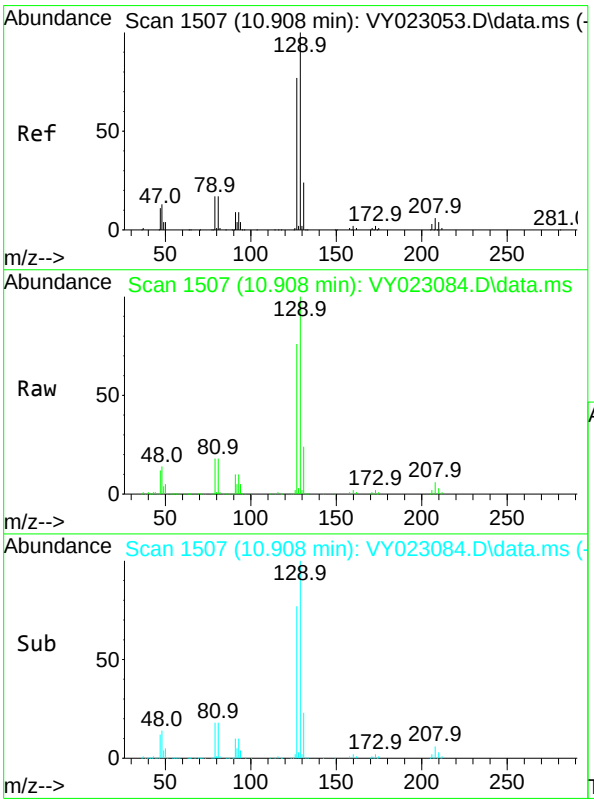

#59
2-Hexanone
Concen: 257.924 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 442922

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 57.4 | 29.5 | 88.5 |

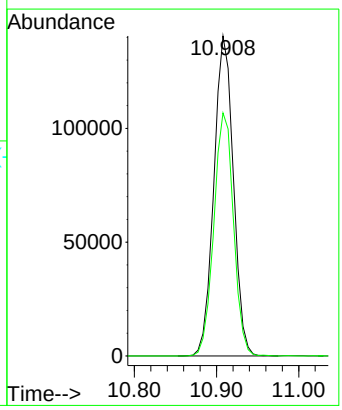


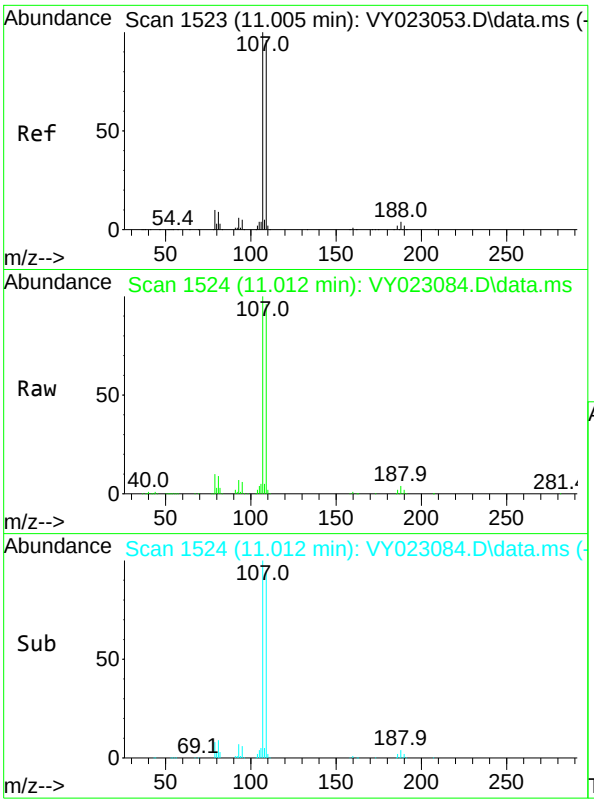




#60
Dibromochloromethane
Concen: 55.947 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:129 Resp: 231534

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 76.7 | 38.5 | 115.5 |



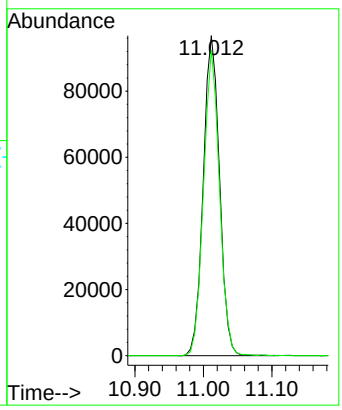


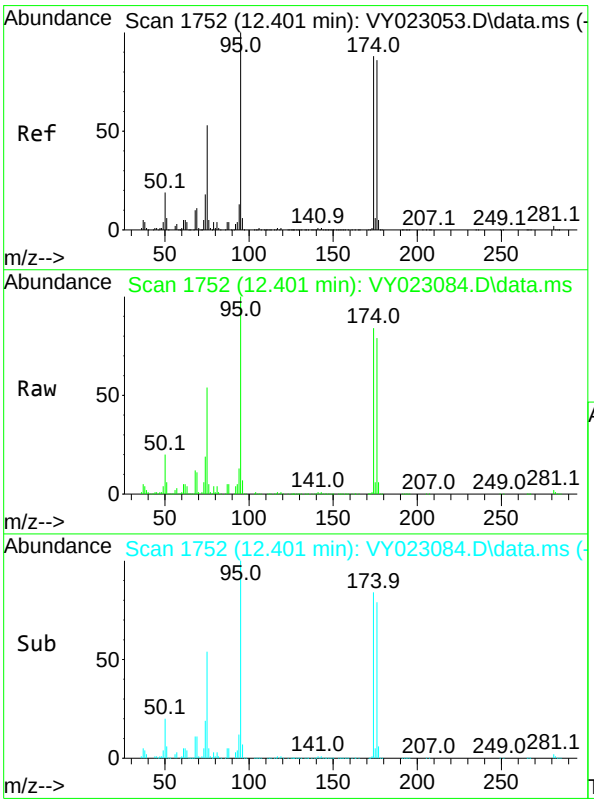

#61
1,2-Dibromoethane
Concen: 54.265 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:107 Resp: 159967

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.4 | 75.6 | 113.4 |

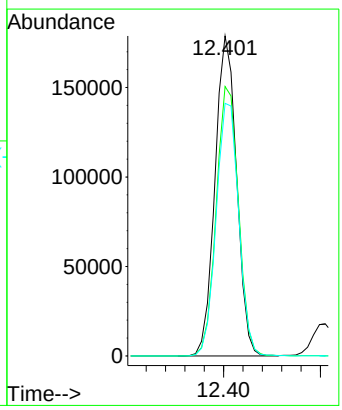


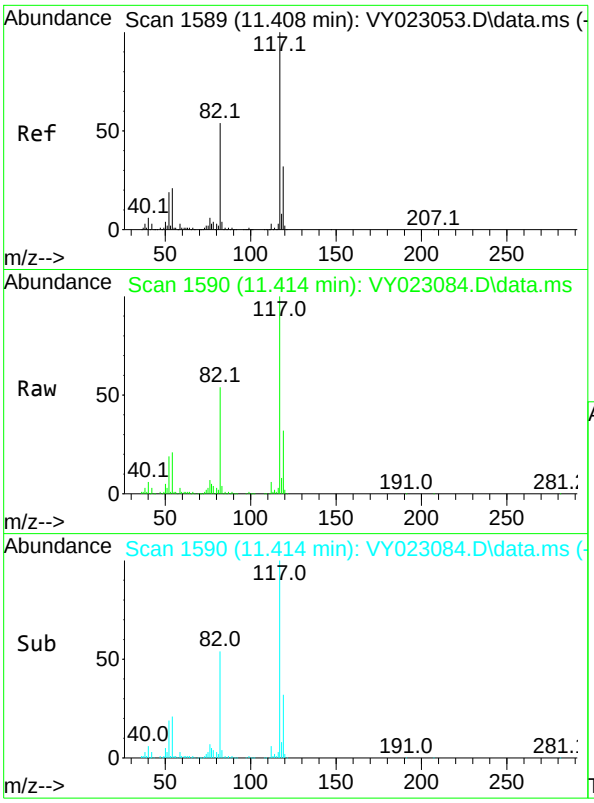




#62
4-Bromofluorobenzene
Concen: 56.822 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 95 Resp: 276611

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 86.6 | 0.0 | 171.6 |
| 176 | 82.3 | 0.0 | 167.6 |



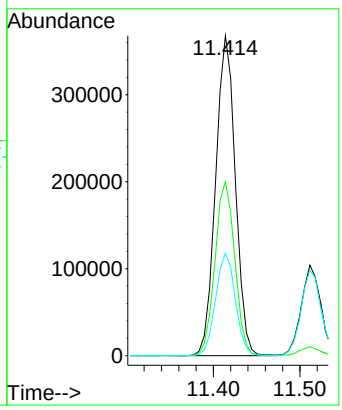


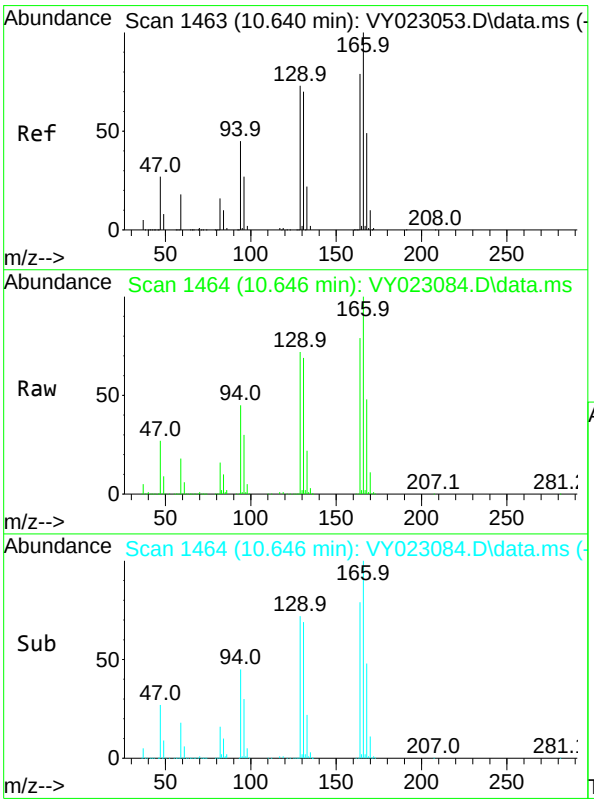

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:117 Resp: 582049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.4 | 43.4 | 65.0 |
| 119 | 32.0 | 25.6 | 38.4 |

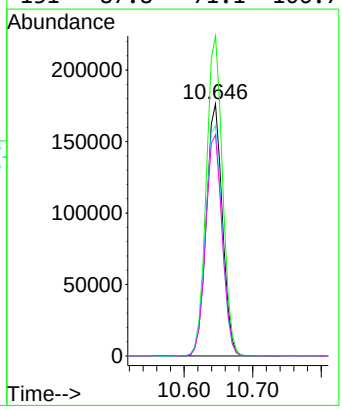


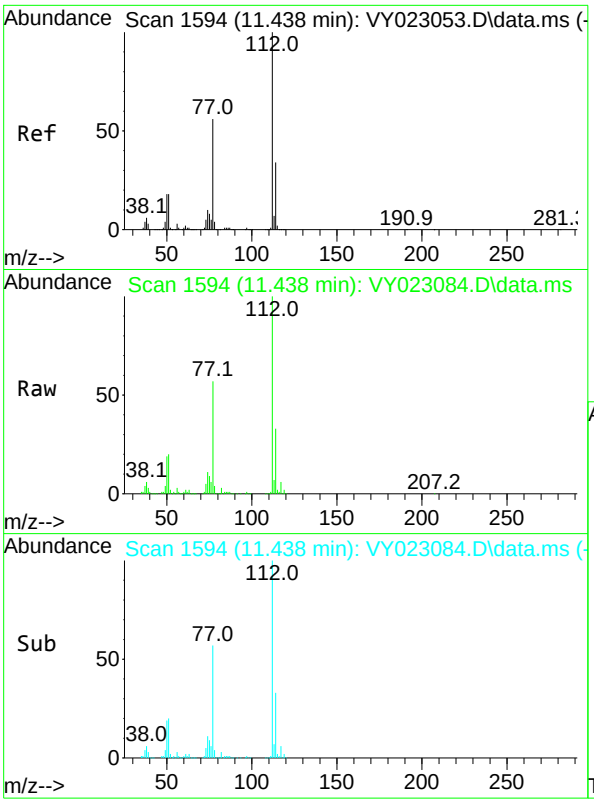




#64
Tetrachloroethene
Concen: 55.420 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:164 Resp: 288037

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 127.0 | 101.1 | 151.7 |
| 129 | 91.4 | 74.0 | 111.0 |
| 131 | 87.8 | 71.1 | 106.7 |



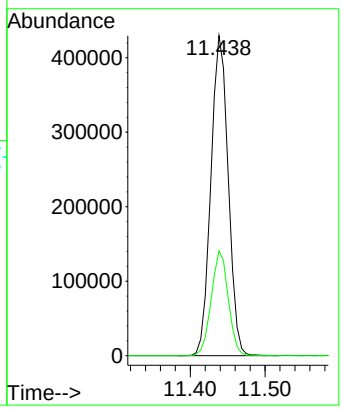


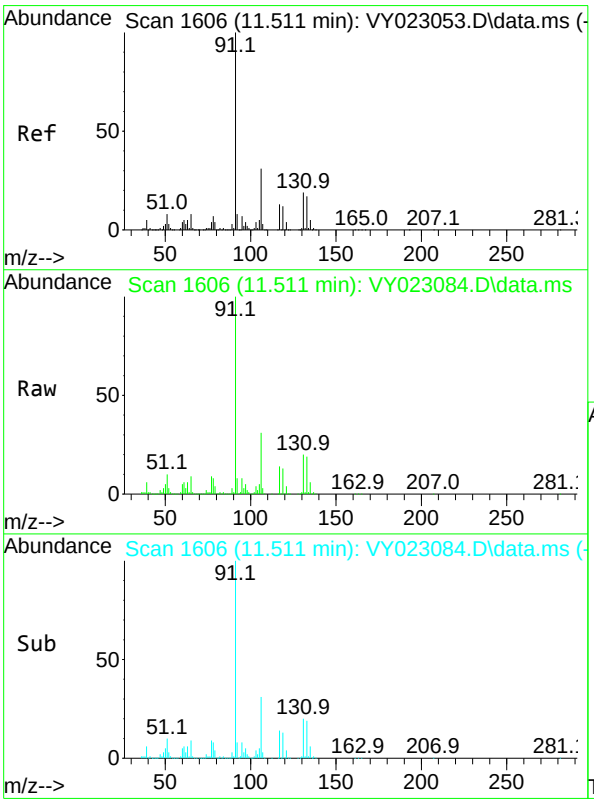

#65
Chlorobenzene
Concen: 55.261 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:112 Resp: 693789

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.7 | 27.0 | 40.4 |

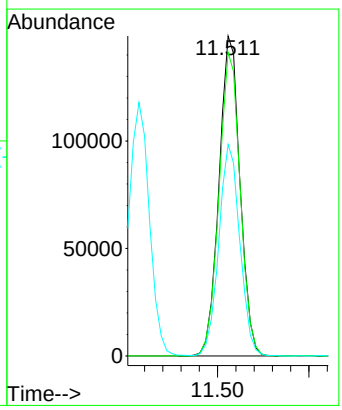


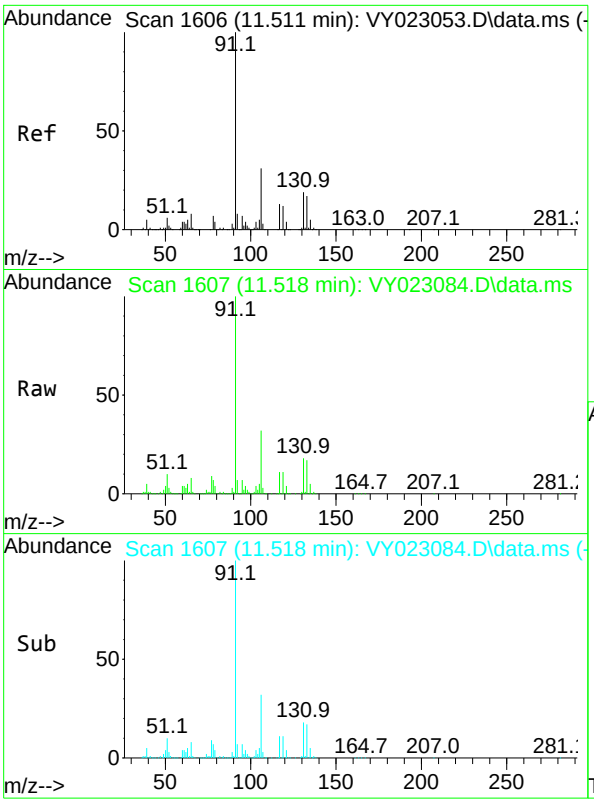




#66
1,1,1,2-Tetrachloroethane
Concen: 55.623 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:131 Resp: 237008

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.6 | 46.9 | 140.6 |
| 119 | 66.3 | 33.2 | 99.6 |



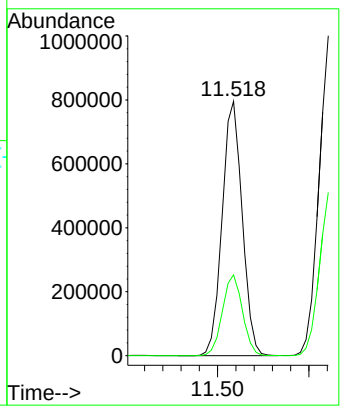


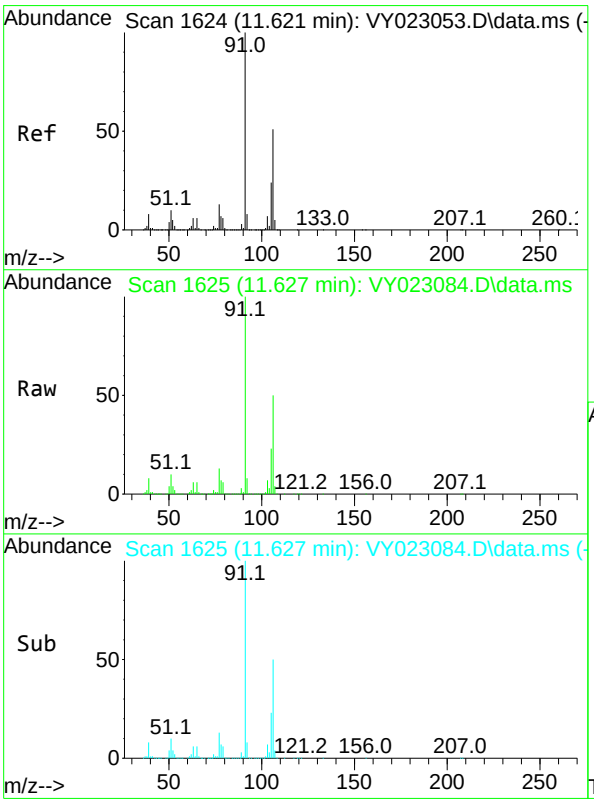

#67
Ethyl Benzene
Concen: 56.146 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 91 Resp: 1213079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.8 | 25.0 | 37.4 |

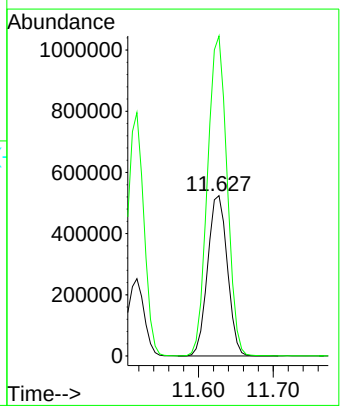


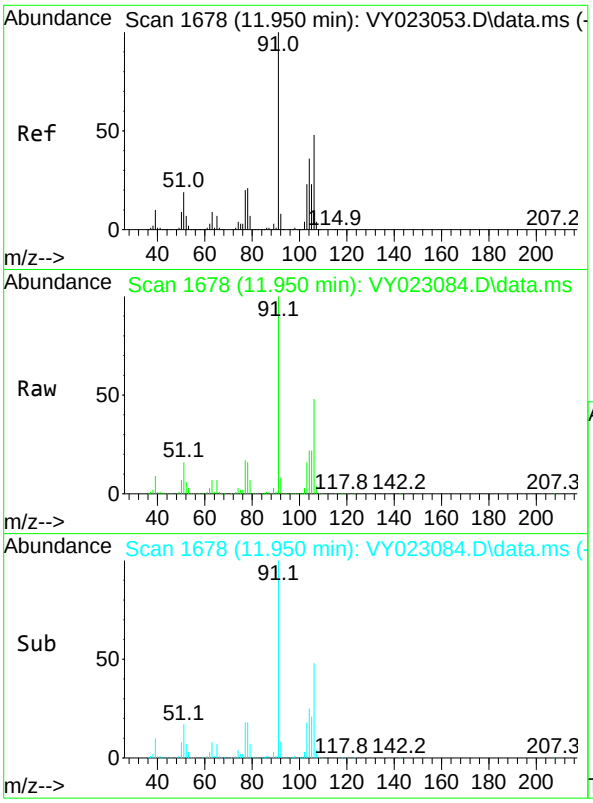




#68
m/p-Xylenes
Concen: 113.678 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:106 Resp: 959256

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 198.3 | 158.6 | 238.0 |



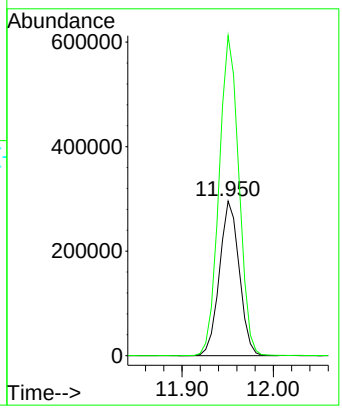


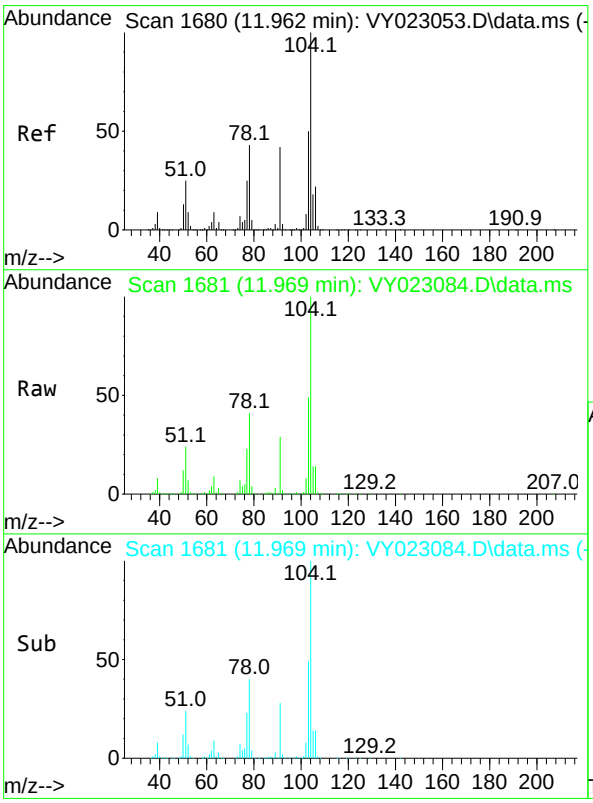

#69
o-Xylene
Concen: 56.368 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:106 Resp: 445491

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 207.9 | 103.2 | 309.4 |

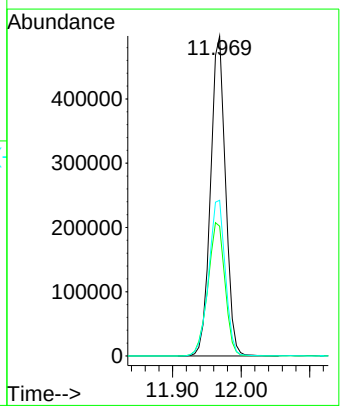


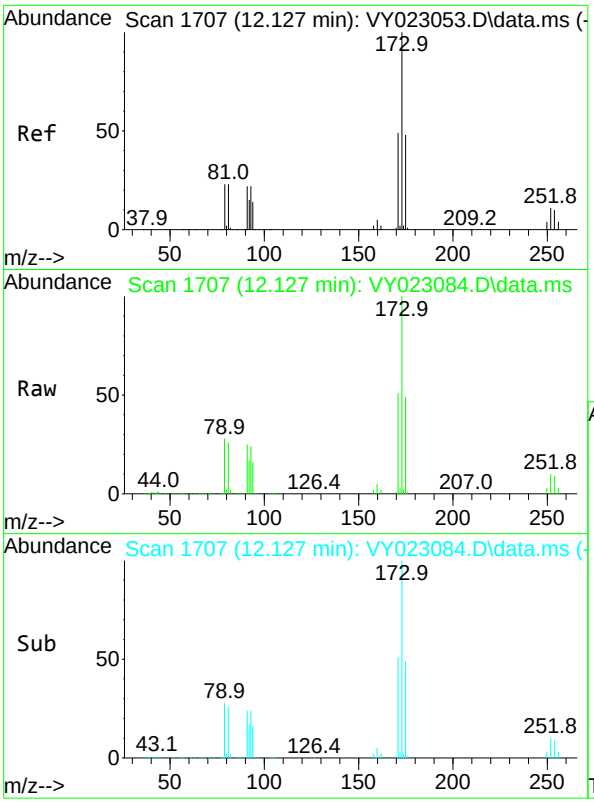




#70
Styrene
Concen: 58.442 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:104 Resp: 755359

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 47.6 | 38.5 | 57.7 |
| 103 | 54.3 | 43.7 | 65.5 |



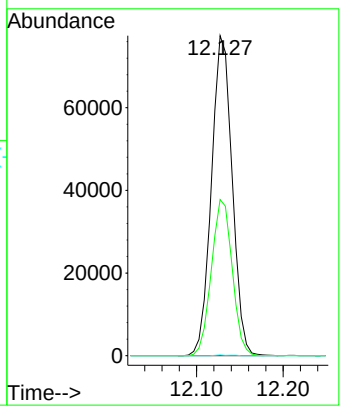


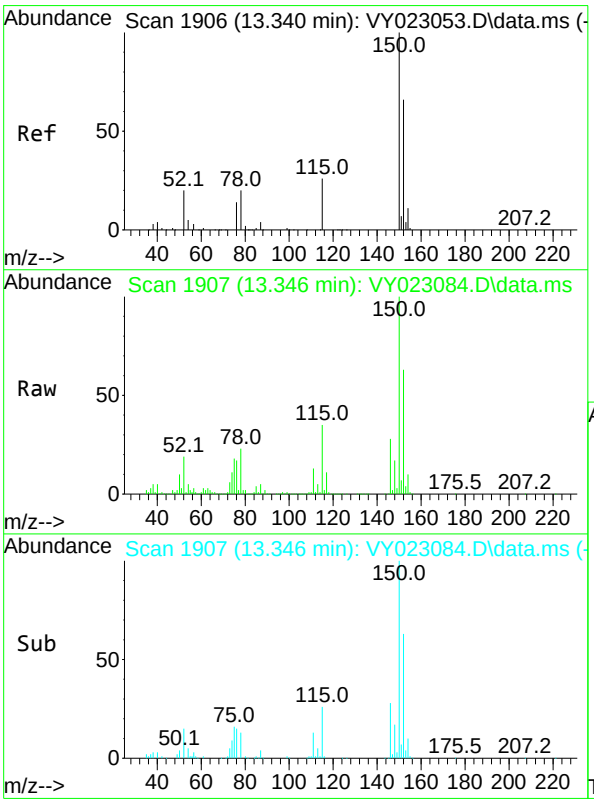

#71
Bromoform
Concen: 51.645 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:173 Resp: 128615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.0 | 23.9 | 71.7 |
| 254 | 0.2 | 0.1 | 0.1# |

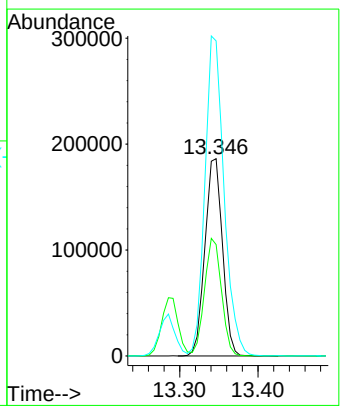


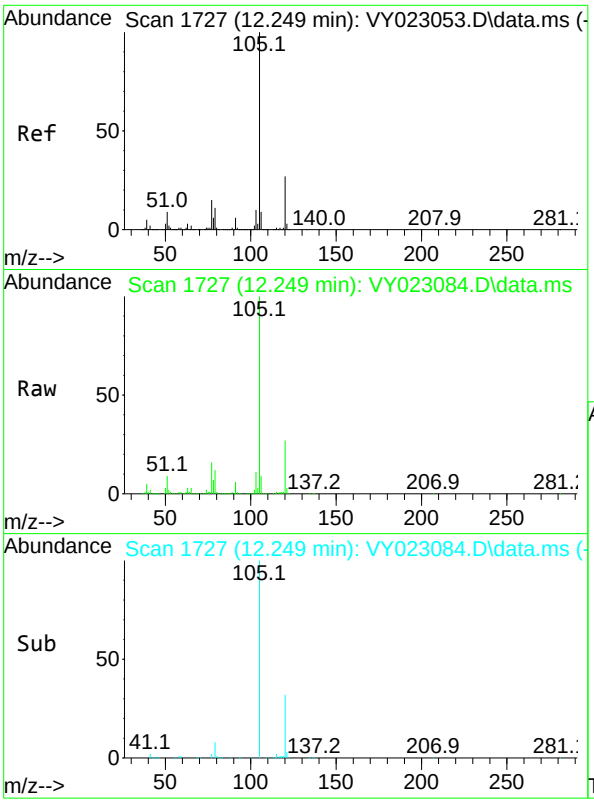




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:152 Resp: 290049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.2 | 28.2 | 84.6 |
| 150 | 176.3 | 0.0 | 348.0 |



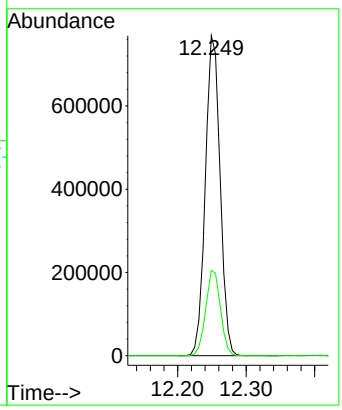


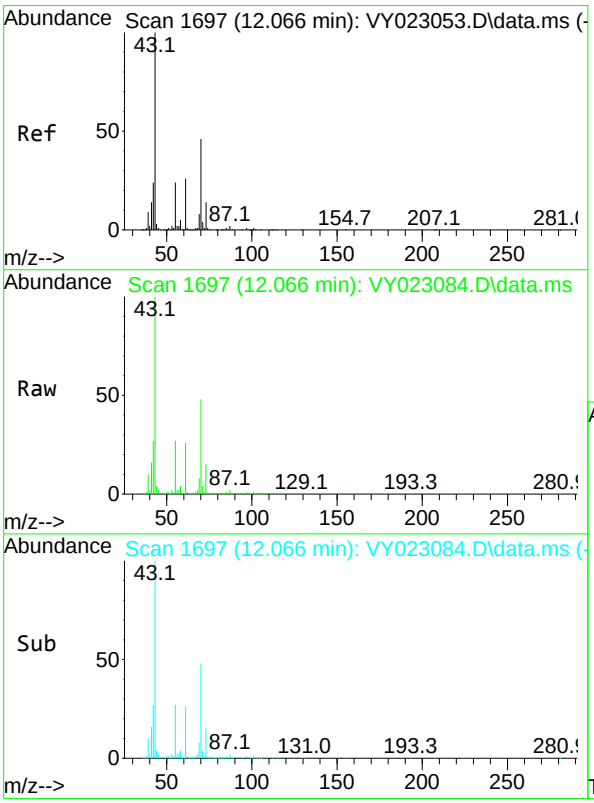

#73
Isopropylbenzene
Concen: 56.330 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:105 Resp: 1153144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.7 | 13.4 | 40.2 |

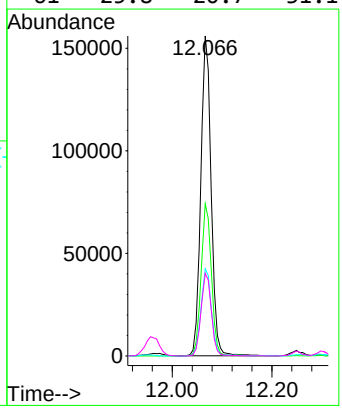


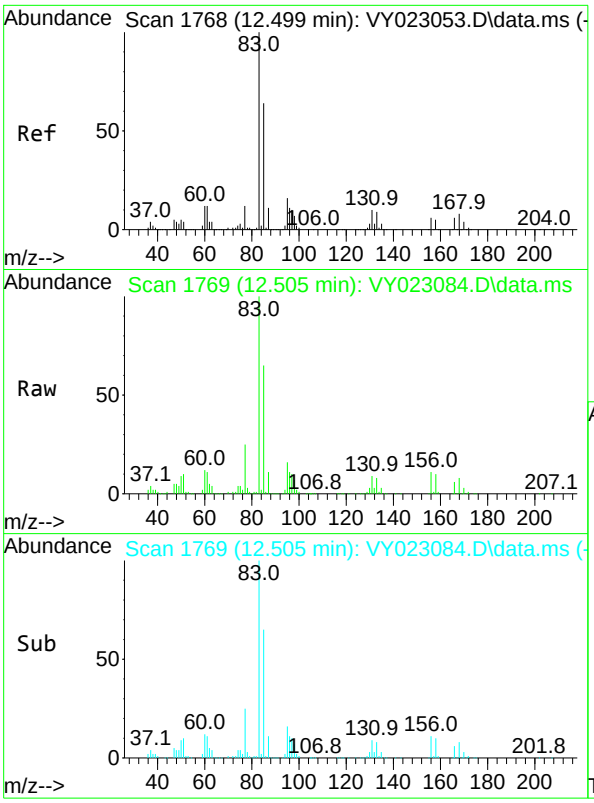




#74
N-amyl acetate
Concen: 51.690 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 43 Resp: 224404

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 47.2 | 37.5 | 56.3 |
| 55 | 27.8 | 20.7 | 31.1 |
| 61 | 25.8 | 20.7 | 31.1 |



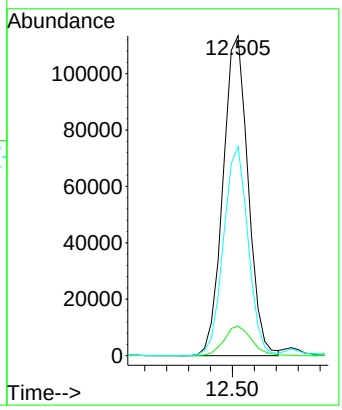


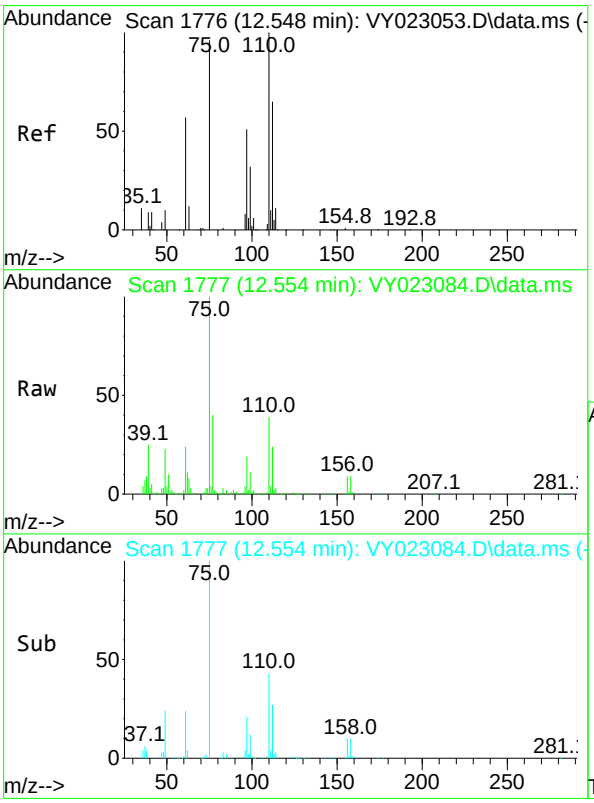

#75
1,1,2,2-Tetrachloroethane
Concen: 51.630 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 83 Resp: 180470

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.2 | 5.1 | 15.3 |
| 85 | 64.0 | 31.8 | 95.3 |

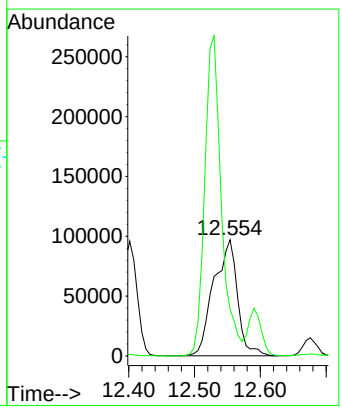


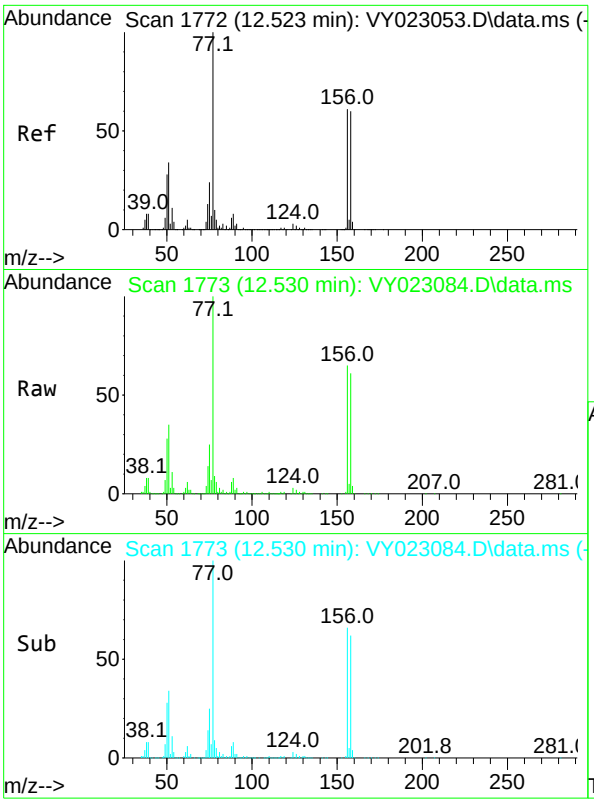




#76
1,2,3-Trichloropropane
Concen: 87.276 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 75 Resp: 244310

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |



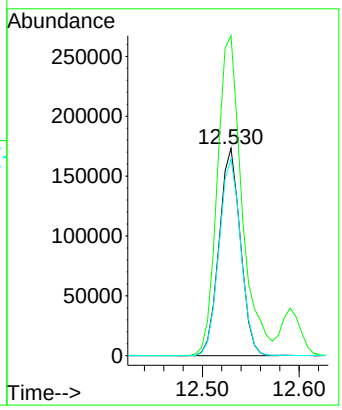


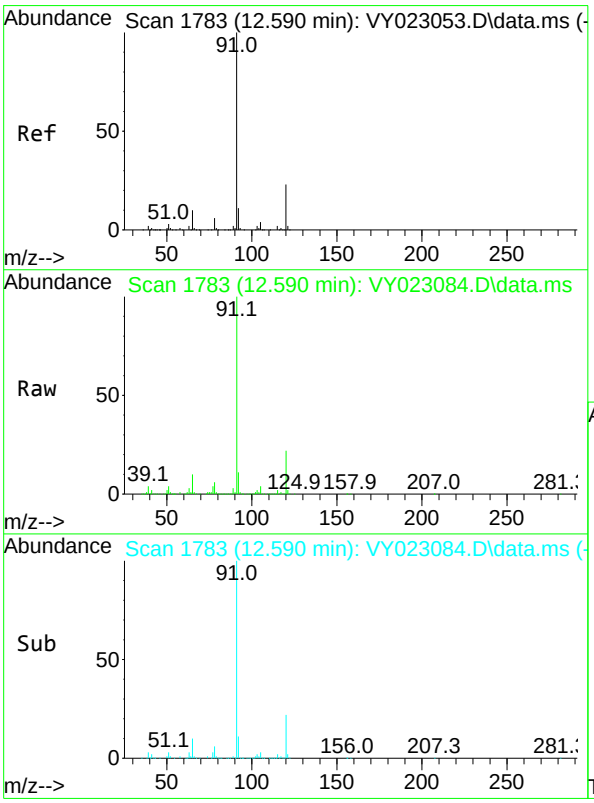

#77
Bromobenzene
Concen: 54.218 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:156 Resp: 264791

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 178.6 | 88.1 | 264.4 |
| 158 | 97.1 | 48.0 | 144.0 |

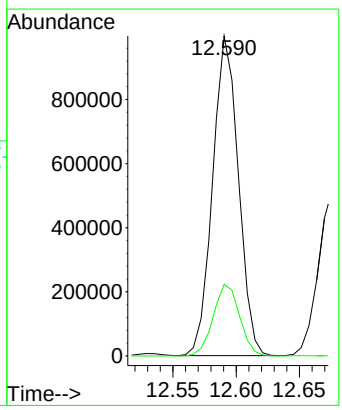


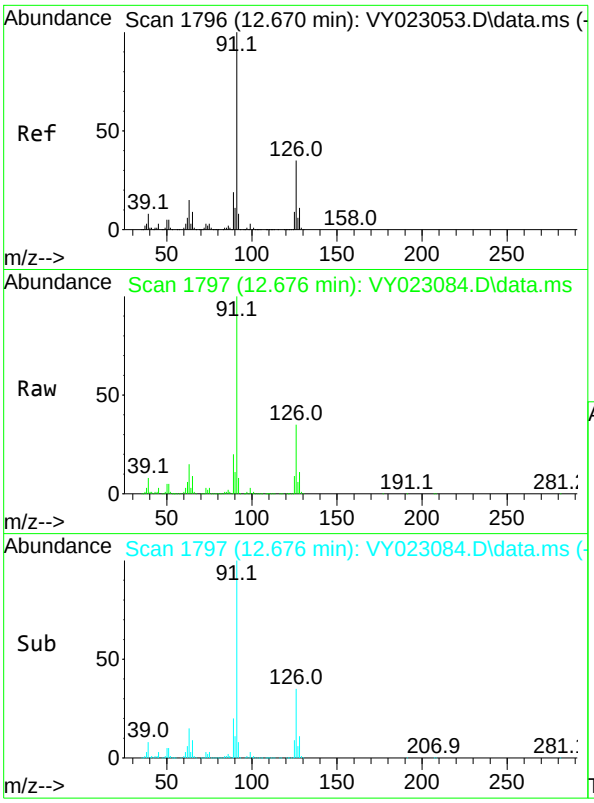




#78
n-propylbenzene
Concen: 57.928 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 91 Resp: 1411858

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.9 | 11.5 | 34.5 |



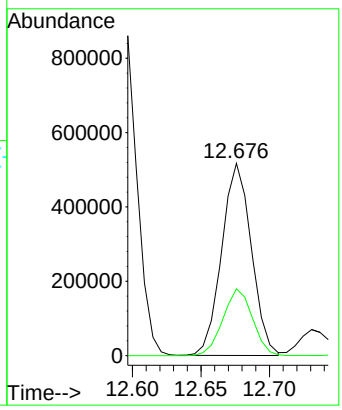


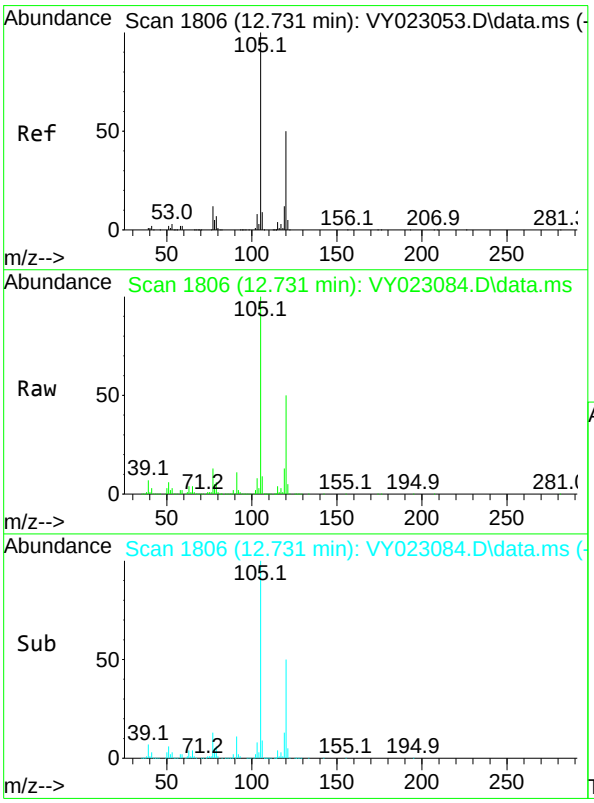

#79
2-Chlorotoluene
Concen: 55.767 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 91 Resp: 778755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.7 | 17.4 | 52.3 |

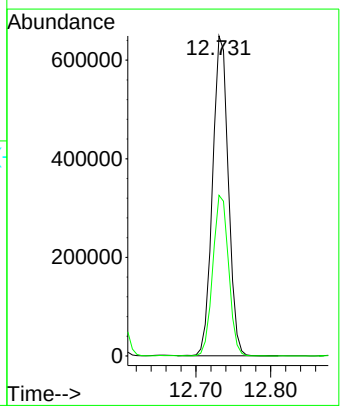


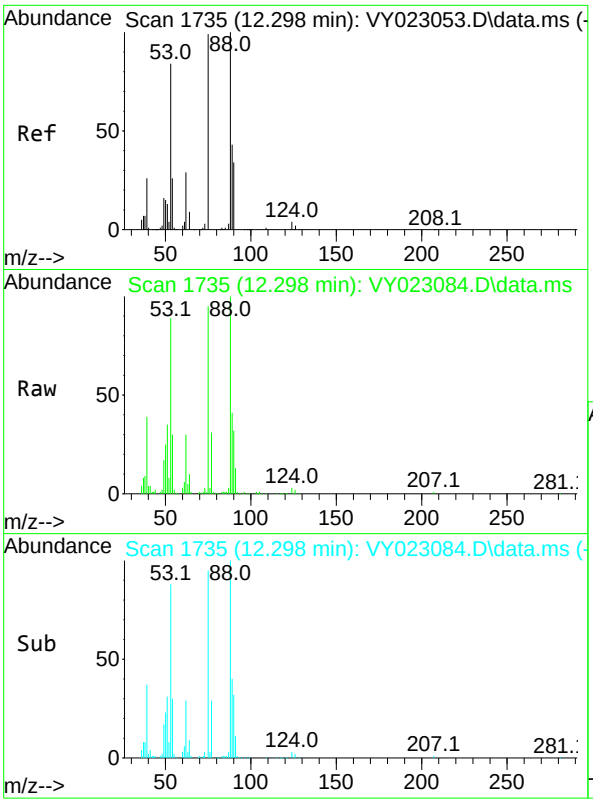




#80
1,3,5-Trimethylbenzene
Concen: 57.421 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:105 Resp: 950021

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 50.3 | 24.8 | 74.4 |



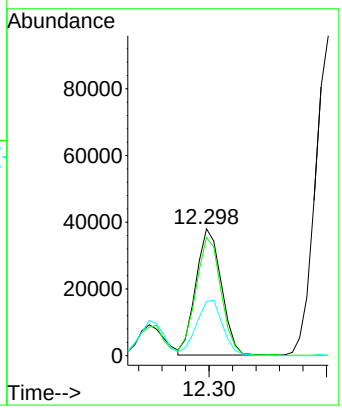


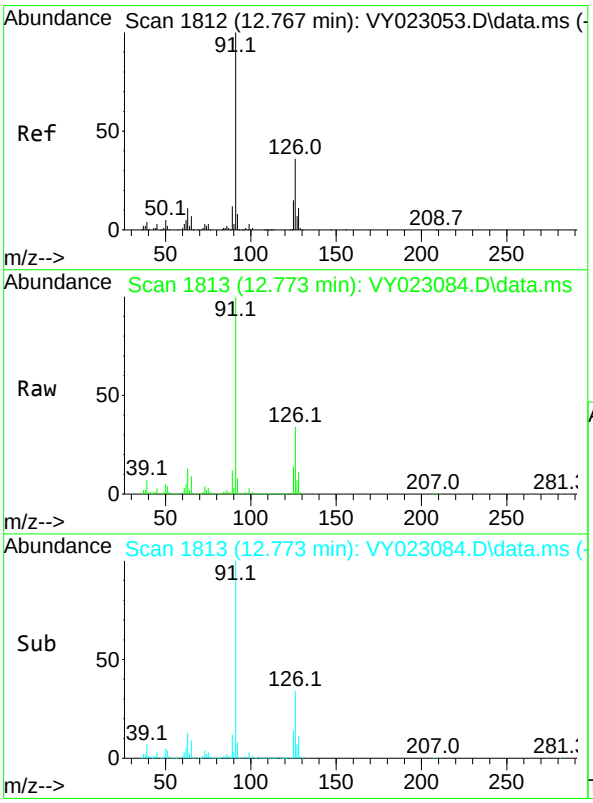

#81
trans-1,4-Dichloro-2-butene
Concen: 49.259 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 75 Resp: 56963

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 92.9 | 70.8 | 106.2 |
| 89 | 45.6 | 38.1 | 57.1 |

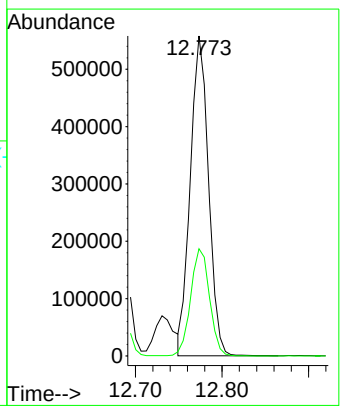


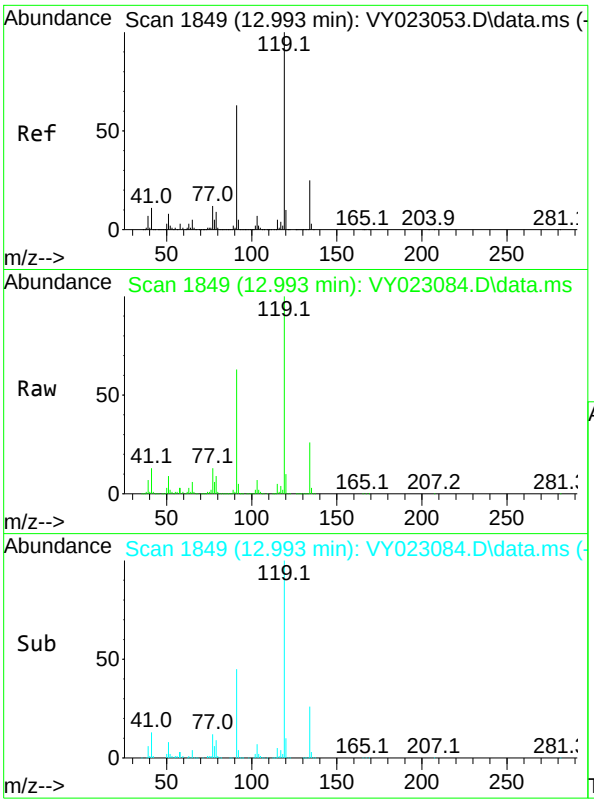




#82
4-Chlorotoluene
Concen: 56.188 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 91 Resp: 813961

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.8 | 17.3 | 52.0 |



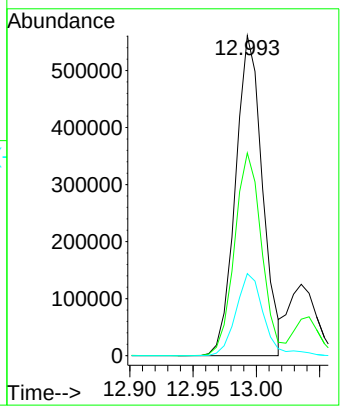


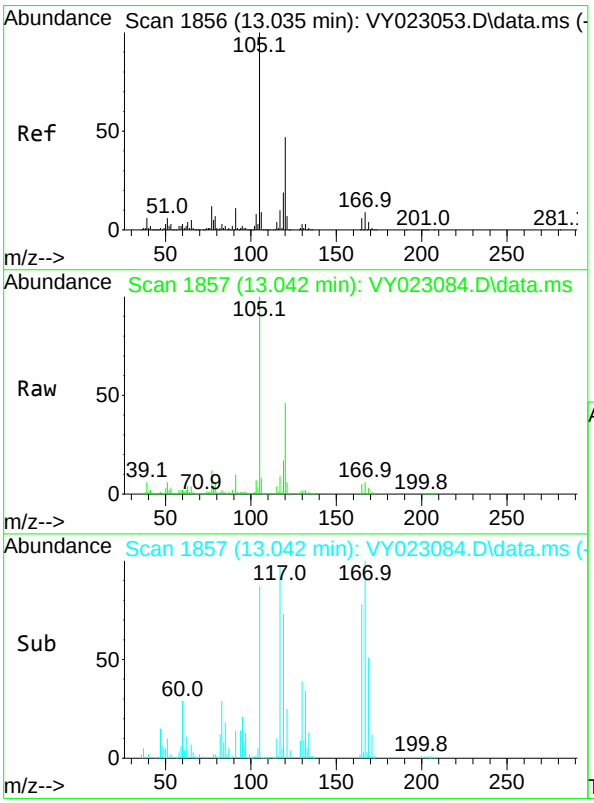

#83
tert-Butylbenzene
Concen: 55.552 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:119 Resp: 830094

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 64.3 | 31.6 | 94.8 |
| 134 | 26.6 | 12.9 | 38.7 |

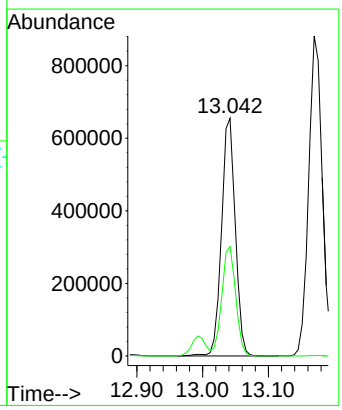


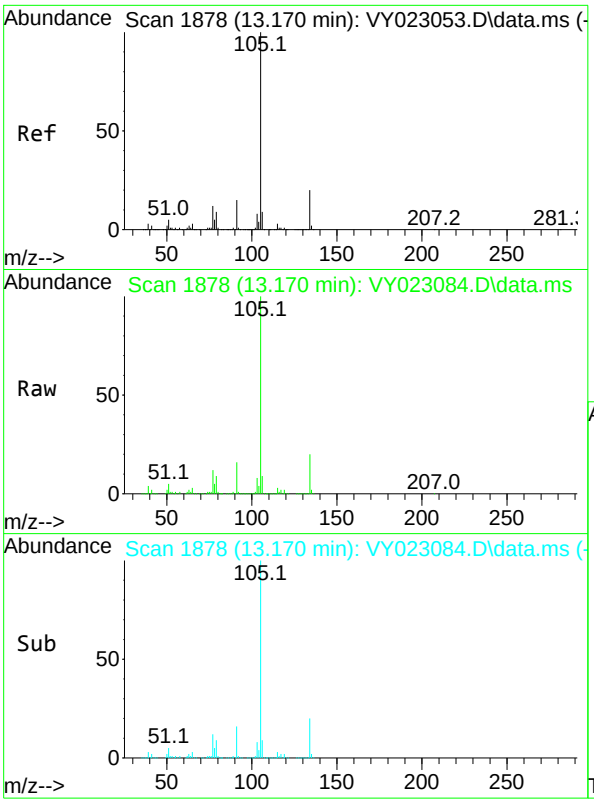




#84
1,2,4-Trimethylbenzene
Concen: 58.063 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:105 Resp: 956285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.3 | 23.0 | 69.0 |



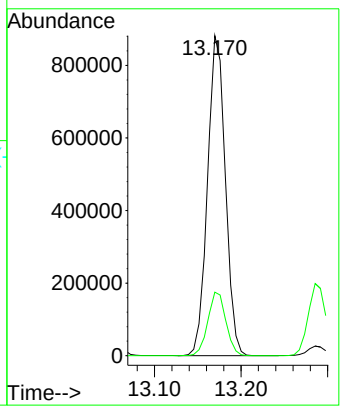


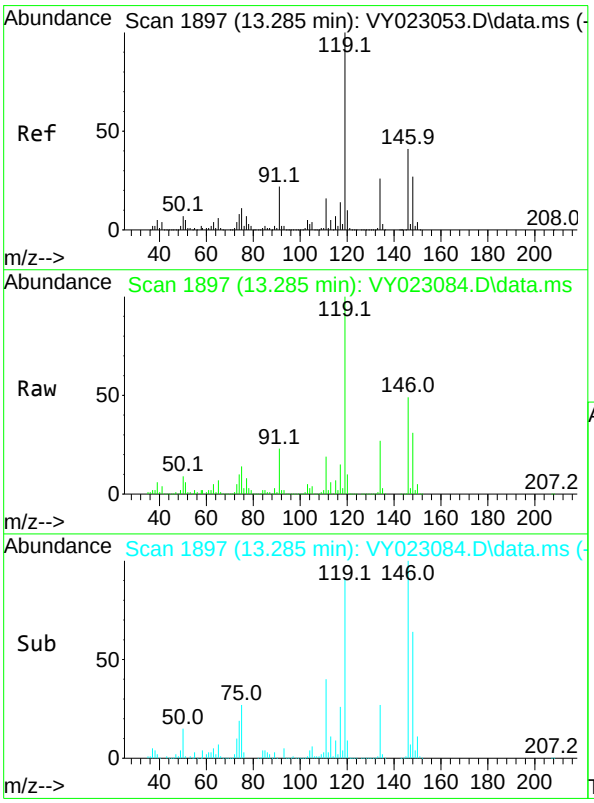

#85
sec-Butylbenzene
Concen: 57.500 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:105 Resp: 1262155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.1 | 10.2 | 30.4 |

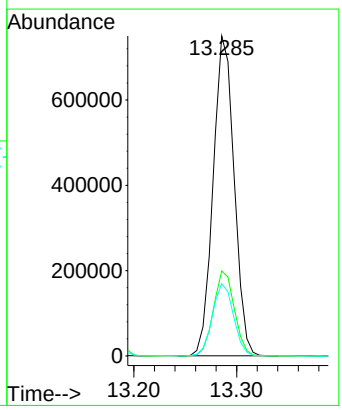


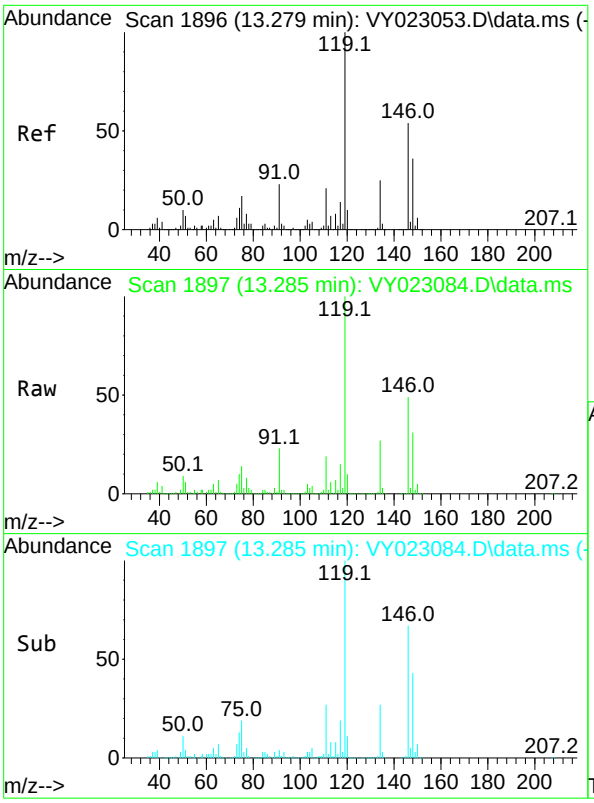




#86
p-Isopropyltoluene
Concen: 58.310 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:119 Resp: 1062415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.5 | 13.2 | 39.6 |
| 91 | 22.6 | 11.3 | 33.8 |



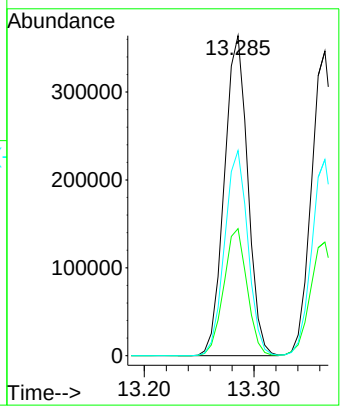


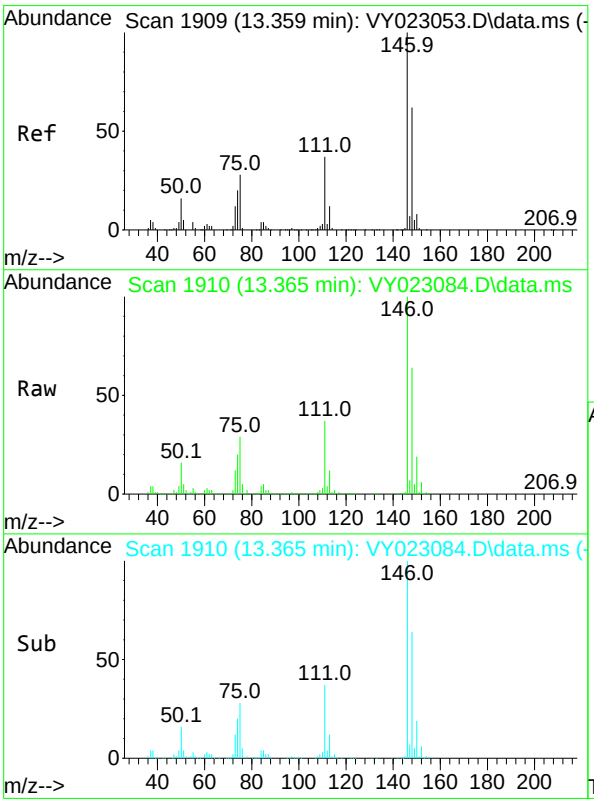

#87
1,3-Dichlorobenzene
Concen: 56.125 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:146 Resp: 540543

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.6 | 19.6 | 58.7 |
| 148 | 63.8 | 32.5 | 97.5 |

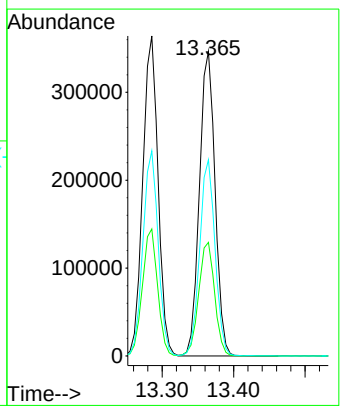


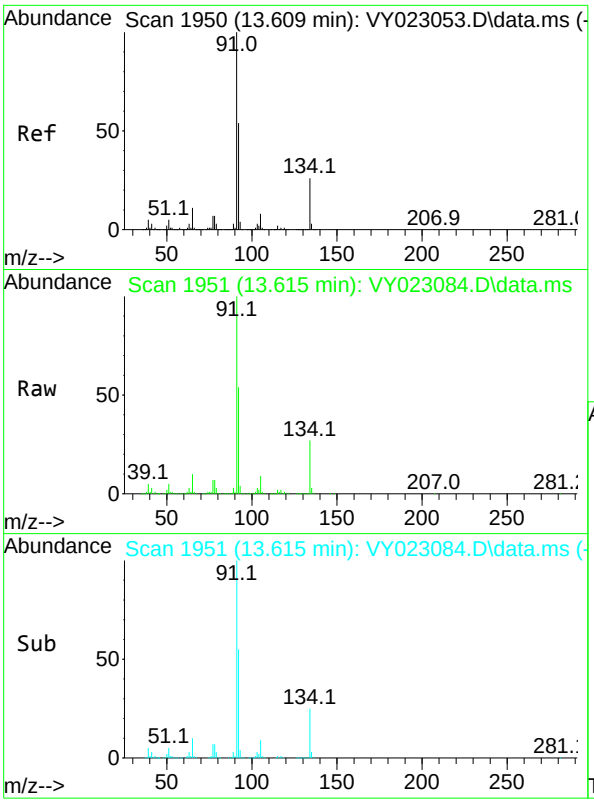




#88
1,4-Dichlorobenzene
Concen: 55.125 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:146 Resp: 526660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.0 | 19.1 | 57.1 |
| 148 | 63.6 | 31.6 | 94.7 |



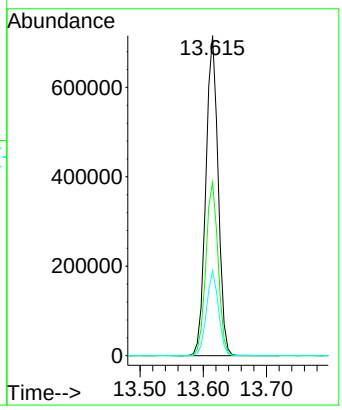


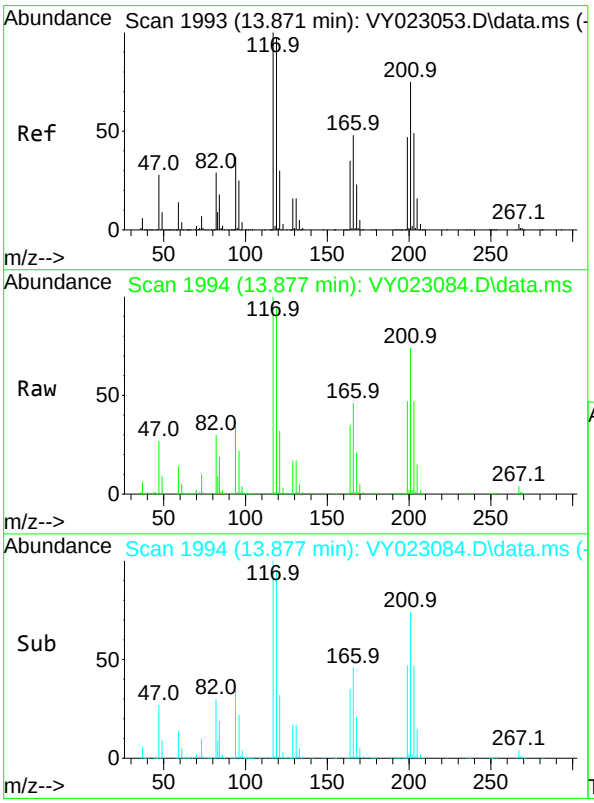

#89
n-Butylbenzene
Concen: 57.904 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 91 Resp: 968977

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.9 | 26.9 | 80.7 |
| 134 | 25.8 | 13.2 | 39.5 |

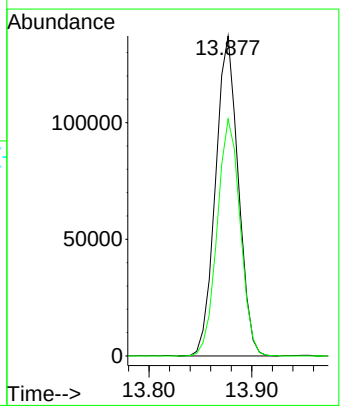


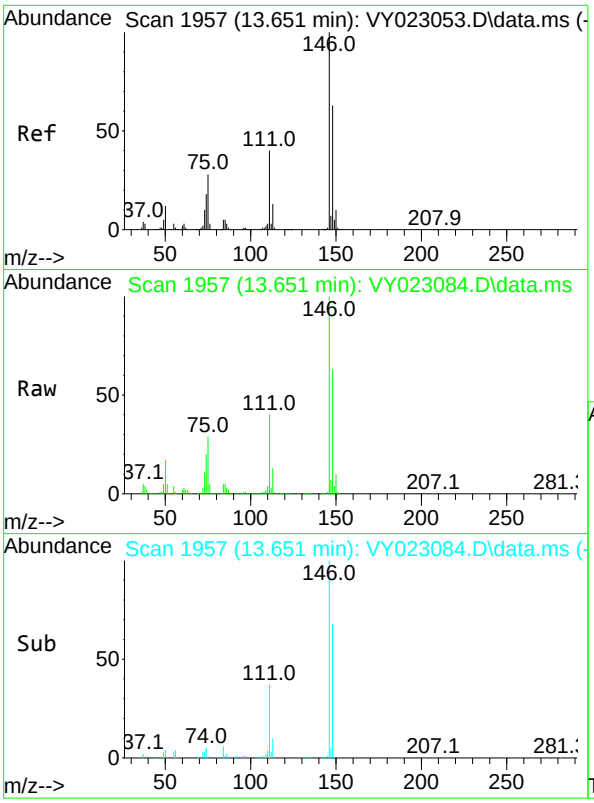




#90
Hexachloroethane
Concen: 56.482 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:117 Resp: 210671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 74.8 | 38.4 | 115.1 |



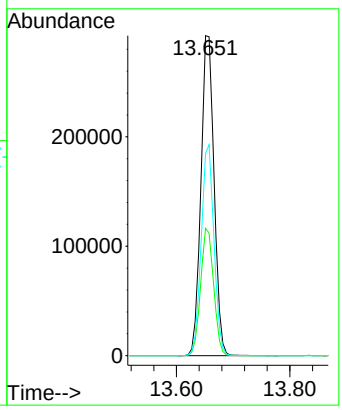


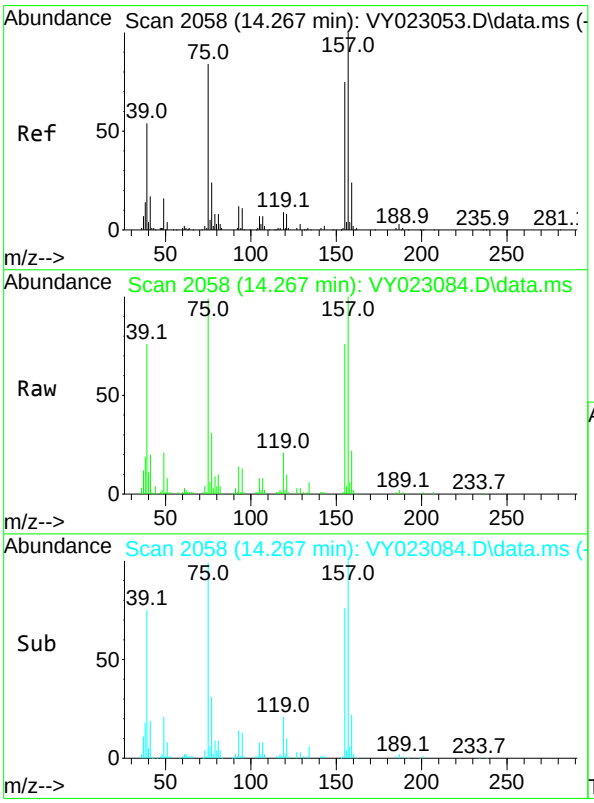

#91
1,2-Dichlorobenzene
Concen: 55.616 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:146 Resp: 469762

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.5 | 20.3 | 60.8 |
| 148 | 64.0 | 32.2 | 96.6 |

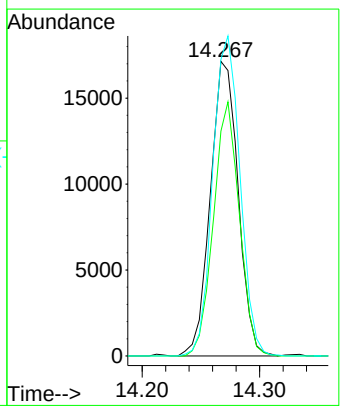


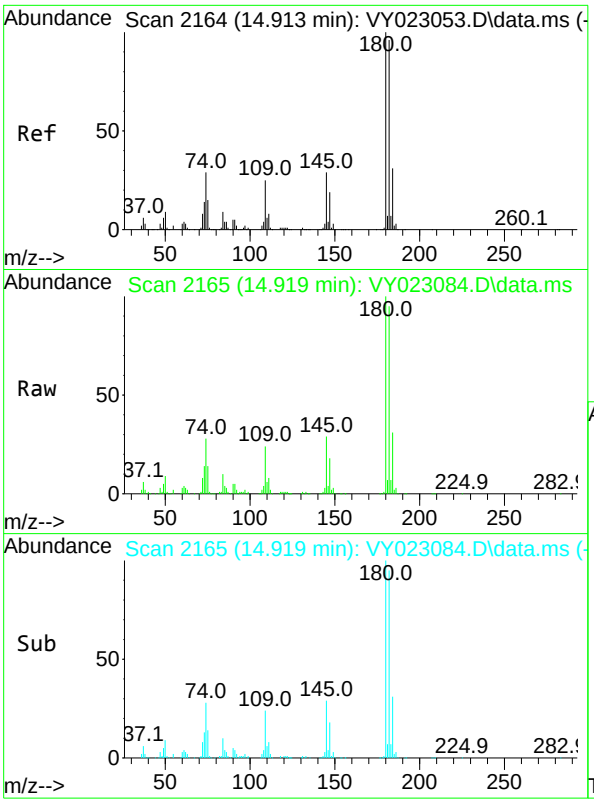




#92
1,2-Dibromo-3-Chloropropane
Concen: 51.839 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion: 75 Resp: 28212

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 80.2 | 43.9 | 131.6 |
| 157 | 106.5 | 57.2 | 171.6 |



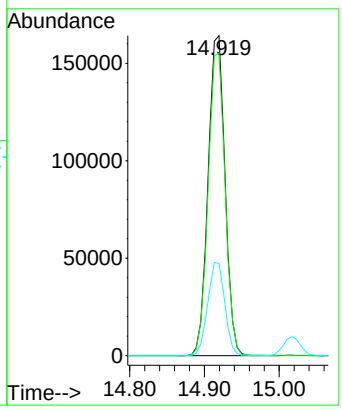


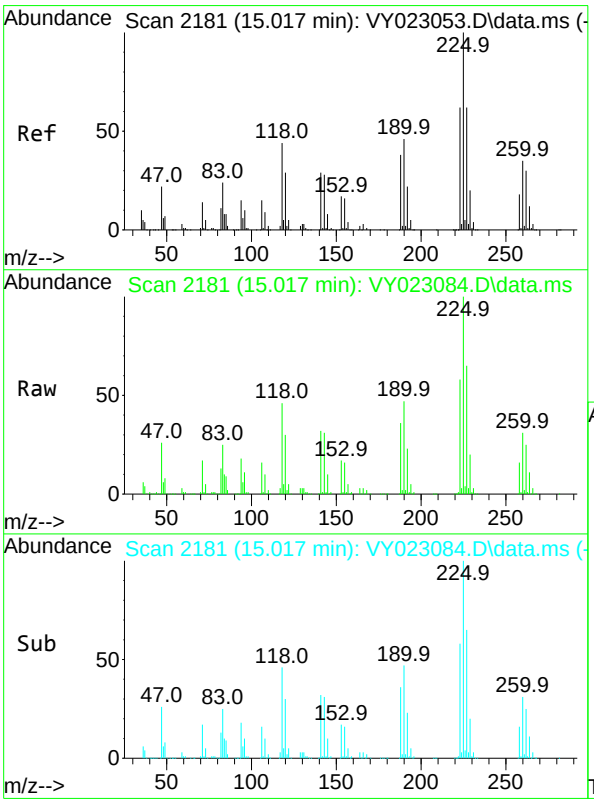

#93
1,2,4-Trichlorobenzene
Concen: 51.769 ug/l
RT: 14.919 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:180 Resp: 258580

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.0 | 46.8 | 140.4 |
| 145 | 29.5 | 14.4 | 43.4 |

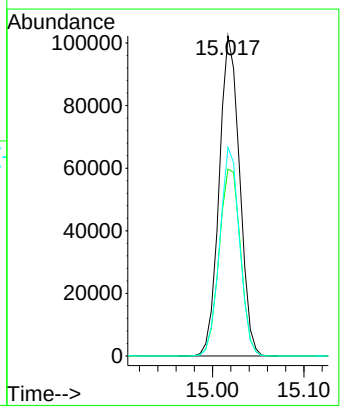


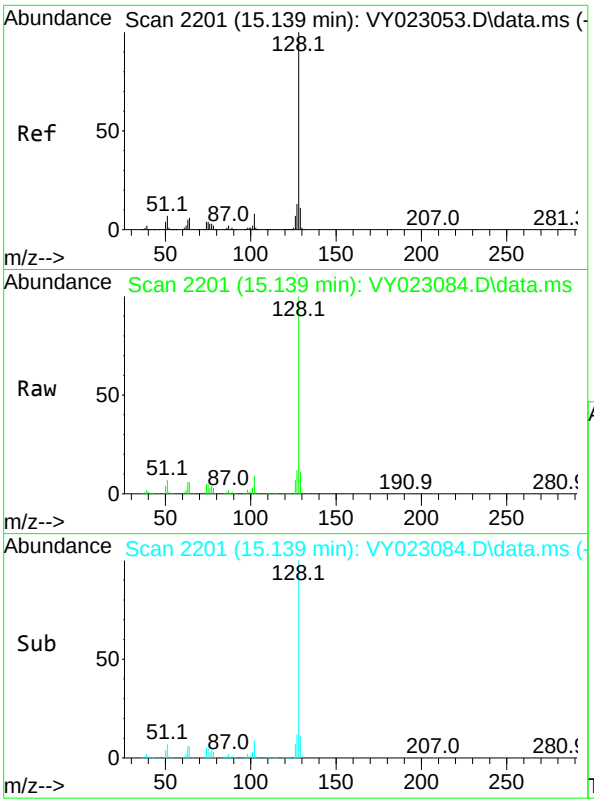




#94
Hexachlorobutadiene
Concen: 54.099 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:225 Resp: 158788

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 61.2 | 31.3 | 93.8 |
| 227 | 63.5 | 31.5 | 94.5 |



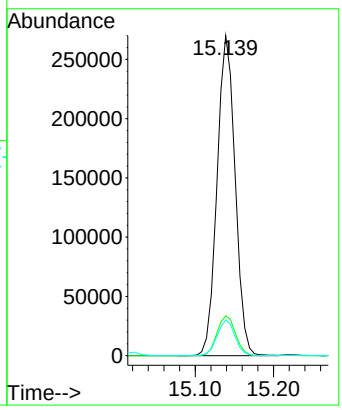


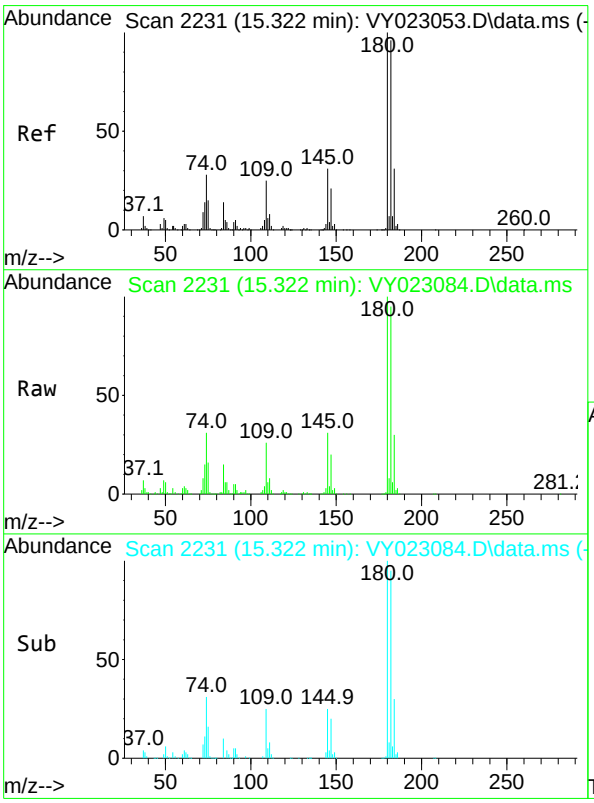

#95
Naphthalene
Concen: 50.929 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:128 Resp: 433775

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.8 | 10.4 | 15.6 |
| 129 | 11.0 | 9.0 | 13.4 |

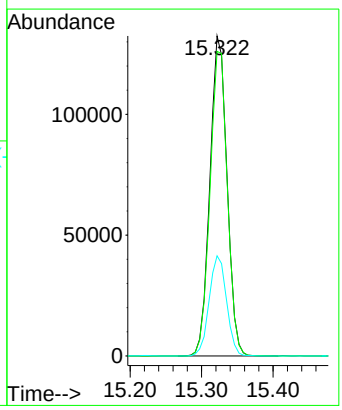



#96
1,2,3-Trichlorobenzene
Concen: 51.145 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023084.D
Acq: 14 Aug 2025 10:17

Tgt Ion:180 Resp: 220135

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.5 | 47.9 | 143.7 |
| 145 | 31.7 | 15.9 | 47.7 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023086.D
Acq On : 14 Aug 2025 11:22
Operator : SY/MD
Sample : VY0814SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Quant Time: Aug 14 14:47:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 455827 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.609 | 114 | 734618 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 641778 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 309825 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 218317 | 50.253 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 100.500% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 220130 | 50.078 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 100.160% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 873299 | 50.855 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 101.720% | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 263190 | 47.657 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 95.320% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.861 | 85 | 74341 | 19.980 | ug/l | 100 |
| 3) Chloromethane | 2.068 | 50 | 139194 | 23.098 | ug/l | 97 |
| 4) Vinyl Chloride | 2.202 | 62 | 172200 | 23.116 | ug/l | 97 |
| 5) Bromomethane | 2.586 | 94 | 129347 | 23.250 | ug/l | 97 |
| 6) Chloroethane | 2.726 | 64 | 116610 | 23.545 | ug/l | 96 |
| 7) Trichlorofluoromethane | 3.049 | 101 | 197599 | 21.815 | ug/l | 99 |
| 8) Diethyl Ether | 3.452 | 74 | 42819 | 17.867 | ug/l | 93 |
| 9) 1,1,2-Trichlorotrifluo... | 3.812 | 101 | 93242 | 20.865 | ug/l | 98 |
| 10) Methyl Iodide | 3.994 | 142 | 103105 | 21.381 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.860 | 59 | 23075 | 77.519 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 3.781 | 96 | 87863 | 20.003 | ug/l | 98 |
| 13) Acrolein | 3.647 | 56 | 34035 | 78.072 | ug/l | 97 |
| 14) Allyl chloride | 4.372 | 41 | 125844 | 19.470 | ug/l | 97 |
| 15) Acrylonitrile | 5.055 | 53 | 87301 | 89.605 | ug/l | 98 |
| 16) Acetone | 3.866 | 43 | 88645 | 94.185 | ug/l | 94 |
| 17) Carbon Disulfide | 4.098 | 76 | 295393 | 20.624 | ug/l | 99 |
| 18) Methyl Acetate | 4.385 | 43 | 49793 | 17.778 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 204114 | 17.932 | ug/l | 99 |
| 20) Methylene Chloride | 4.610 | 84 | 107429 | 20.355 | ug/l | 99 |
| 21) trans-1,2-Dichloroethene | 5.110 | 96 | 99704 | 20.198 | ug/l | 98 |
| 22) Diisopropyl ether | 6.012 | 45 | 279897 | 19.929 | ug/l | 96 |
| 23) Vinyl Acetate | 5.957 | 43 | 703379 | 90.570 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.909 | 63 | 177456 | 20.666 | ug/l | 100 |
| 25) 2-Butanone | 6.890 | 43 | 113667 | 88.799 | ug/l | 95 |
| 26) 2,2-Dichloropropane | 6.878 | 77 | 150616 | 20.328 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 6.884 | 96 | 114706 | 20.100 | ug/l | 99 |
| 28) Bromochloromethane | 7.244 | 49 | 69276 | 20.335 | ug/l | 96 |
| 29) Tetrahydrofuran | 7.262 | 42 | 67731 | 85.363 | ug/l | 95 |
| 30) Chloroform | 7.415 | 83 | 182352 | 20.591 | ug/l | 96 |
| 31) Cyclohexane | 7.695 | 56 | 156917 | 19.392 | ug/l | 97 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 161426 | 20.543 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 7.829 | 75 | 131067 | 20.063 | ug/l | 99 |
| 37) Ethyl Acetate | 6.982 | 43 | 45793 | 16.687 | ug/l | 98 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 142349 | 20.062 | ug/l | 98 |
| 39) Methylcyclohexane | 9.109 | 83 | 160783 | 18.690 | ug/l | 97 |
| 40) Benzene | 8.073 | 78 | 408860 | 20.306 | ug/l | 99 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023086.D
Acq On : 14 Aug 2025 11:22
Operator : SY/MD
Sample : VY0814SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Quant Time: Aug 14 14:47:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.213 | 41 | 23134 | 14.607 ug/l # | 86 |
| 42) 1,2-Dichloroethane | 8.152 | 62 | 104577 | 19.970 ug/l | 98 |
| 43) Isopropyl Acetate | 8.195 | 43 | 95745 | 17.262 ug/l | 98 |
| 44) Trichloroethene | 8.859 | 130 | 106605 | 20.488 ug/l | 98 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 95447 | 20.603 ug/l | 99 |
| 46) Dibromomethane | 9.225 | 93 | 51967 | 19.543 ug/l | 97 |
| 47) Bromodichloromethane | 9.420 | 83 | 137131 | 20.042 ug/l | 98 |
| 48) Methyl methacrylate | 9.219 | 41 | 45987 | 17.327 ug/l | 98 |
| 49) 1,4-Dioxane | 9.225 | 88 | 10785 | 345.913 ug/l # | 94 |
| 51) 4-Methyl-2-Pentanone | 9.993 | 43 | 238881 | 83.495 ug/l | 97 |
| 52) Toluene | 10.164 | 92 | 252944 | 19.780 ug/l | 97 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 114364 | 18.458 ug/l | 100 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 141980 | 19.379 ug/l | 99 |
| 55) 1,1,2-Trichloroethane | 10.566 | 97 | 66658 | 18.734 ug/l | 97 |
| 56) Ethyl methacrylate | 10.438 | 69 | 75122 | 16.500 ug/l | 98 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 114859 | 19.034 ug/l | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 187201 | 87.167 ug/l | 100 |
| 59) 2-Hexanone | 10.755 | 43 | 159619 | 81.934 ug/l | 98 |
| 60) Dibromochloromethane | 10.908 | 129 | 88354 | 18.819 ug/l | 100 |
| 61) 1,2-Dibromoethane | 11.011 | 107 | 61746 | 18.463 ug/l | 100 |
| 64) Tetrachloroethene | 10.646 | 164 | 123429 | 21.538 ug/l | 98 |
| 65) Chlorobenzene | 11.438 | 112 | 272937 | 19.716 ug/l | 95 |
| 66) 1,1,1,2-Tetrachloroethane | 11.511 | 131 | 93115 | 19.819 ug/l | 98 |
| 67) Ethyl Benzene | 11.517 | 91 | 461952 | 19.391 ug/l | 100 |
| 68) m/p-Xylenes | 11.627 | 106 | 362129 | 38.921 ug/l | 98 |
| 69) o-Xylene | 11.950 | 106 | 165485 | 18.990 ug/l | 97 |
| 70) Styrene | 11.963 | 104 | 273749 | 19.209 ug/l | 99 |
| 71) Bromoform | 12.127 | 173 | 49863 | 18.159 ug/l # | 100 |
| 73) Isopropylbenzene | 12.249 | 105 | 423027 | 19.345 ug/l | 99 |
| 74) N-amyl acetate | 12.066 | 43 | 78613 | 16.952 ug/l | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.499 | 83 | 64150 | 17.181 ug/l | 94 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 91421 | 30.574 ug/l # | 100 |
| 77) Bromobenzene | 12.529 | 156 | 100851 | 19.332 ug/l | 98 |
| 78) n-propylbenzene | 12.590 | 91 | 520711 | 20.001 ug/l | 100 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 297769 | 19.962 ug/l | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.731 | 105 | 348710 | 19.731 ug/l | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.298 | 75 | 21491 | 17.398 ug/l | 94 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 312655 | 20.205 ug/l | 98 |
| 83) tert-Butylbenzene | 12.993 | 119 | 303222 | 18.997 ug/l | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.036 | 105 | 351003 | 19.952 ug/l | 99 |
| 85) sec-Butylbenzene | 13.170 | 105 | 458024 | 19.534 ug/l | 99 |
| 86) p-Isopropyltoluene | 13.285 | 119 | 374466 | 19.240 ug/l | 99 |
| 87) 1,3-Dichlorobenzene | 13.279 | 146 | 200869 | 19.525 ug/l | 99 |
| 88) 1,4-Dichlorobenzene | 13.359 | 146 | 200293 | 19.626 ug/l | 98 |
| 89) n-Butylbenzene | 13.615 | 91 | 344791 | 19.289 ug/l | 98 |
| 90) Hexachloroethane | 13.877 | 117 | 80689 | 20.252 ug/l | 97 |
| 91) 1,2-Dichlorobenzene | 13.651 | 146 | 172852 | 19.158 ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.267 | 75 | 9872 | 16.982 ug/l | 95 |
| 93) 1,2,4-Trichlorobenzene | 14.913 | 180 | 93915 | 17.602 ug/l | 99 |
| 94) Hexachlorobutadiene | 15.017 | 225 | 58299 | 18.595 ug/l | 98 |
| 95) Naphthalene | 15.139 | 128 | 142271 | 15.638 ug/l | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.322 | 180 | 79576 | 17.308 ug/l | 98 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023086.D
Acq On : 14 Aug 2025 11:22
Operator : SY/MD
Sample : VY0814SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Quant Time: Aug 14 14:47:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

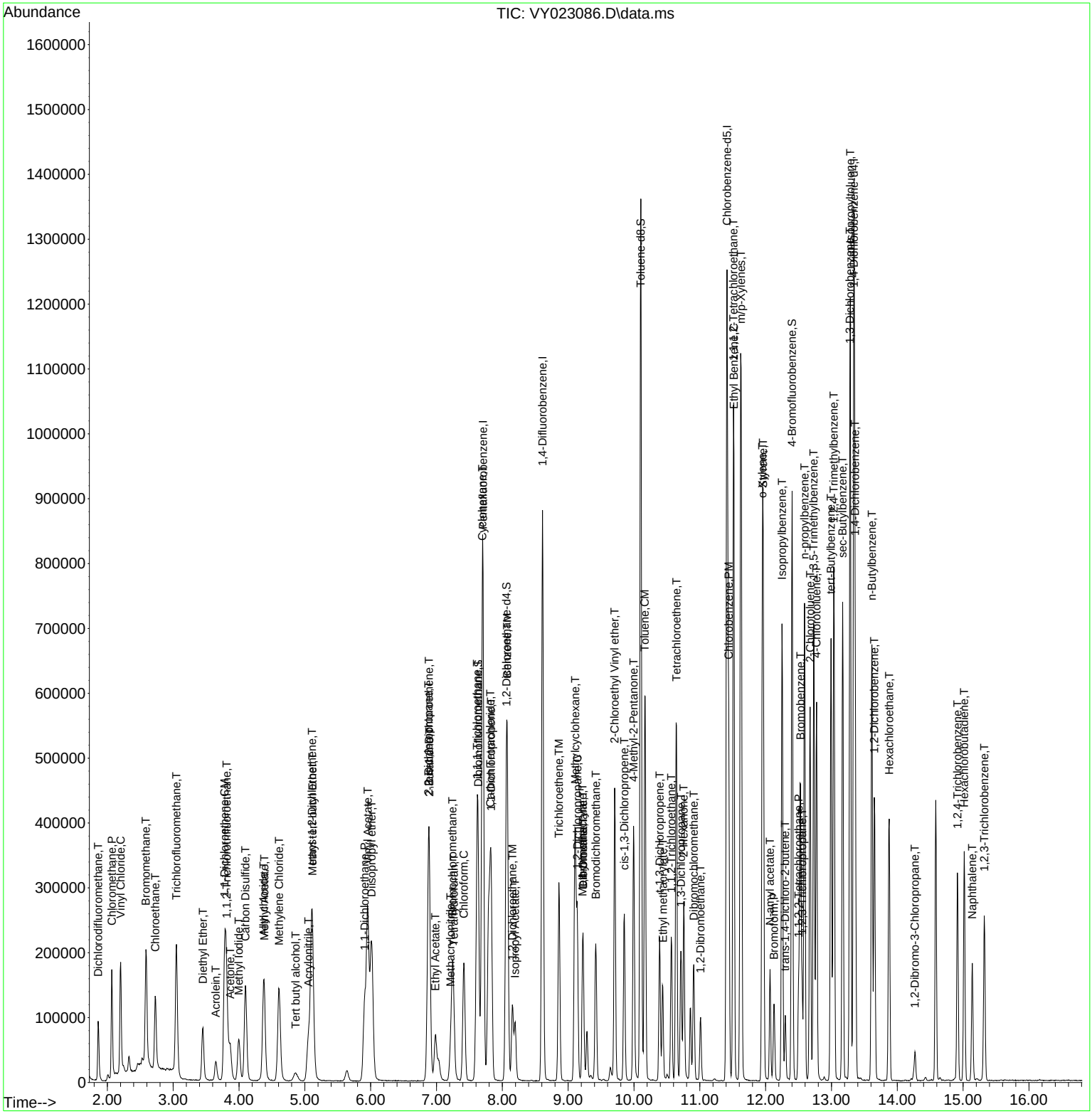
(#) = qualifier out of range (m) = manual integration (+) = signals summed

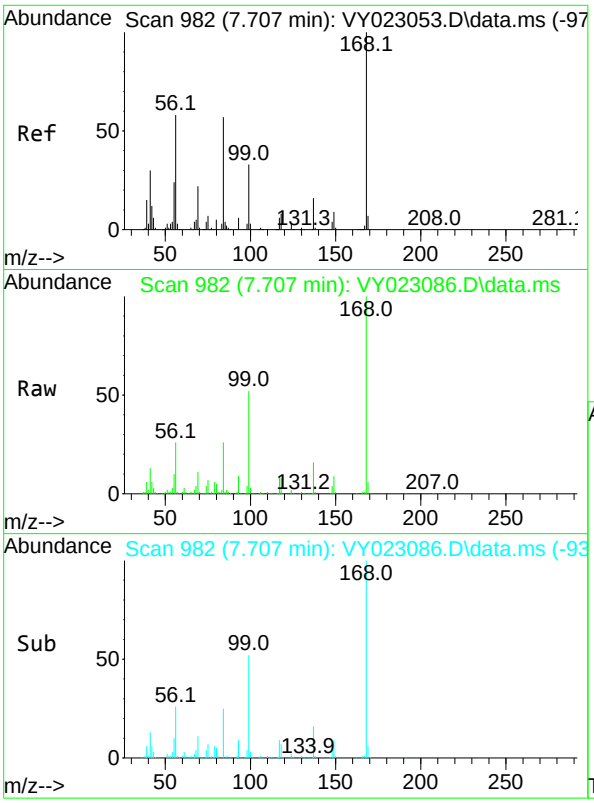
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023086.D
Acq On : 14 Aug 2025 11:22
Operator : SY/MD
Sample : VY0814SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Quant Time: Aug 14 14:47:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



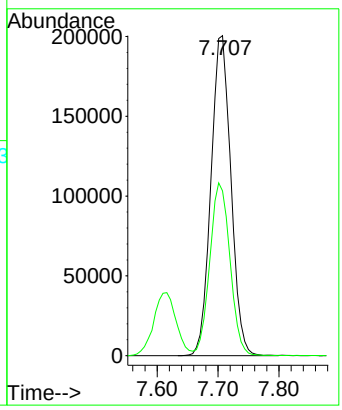


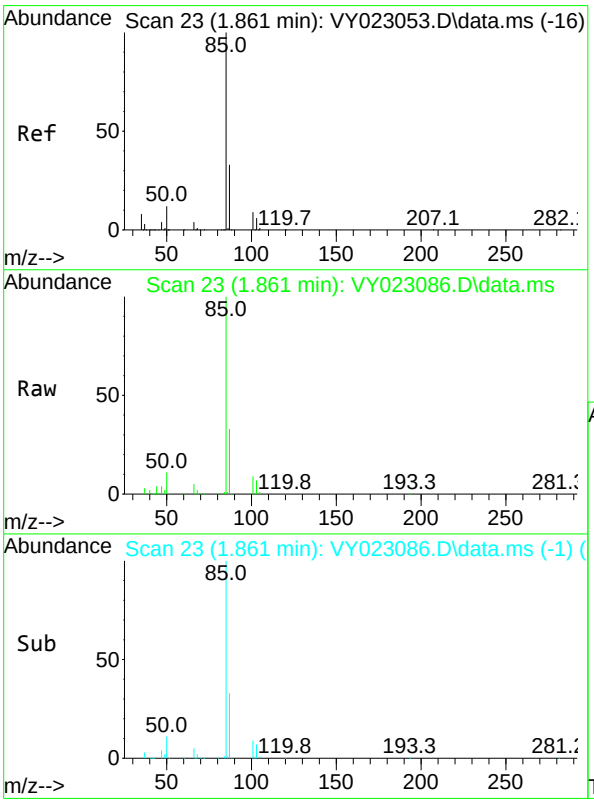

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion:168 Resp: 455827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 51.4 | 42.8 | 64.2 |

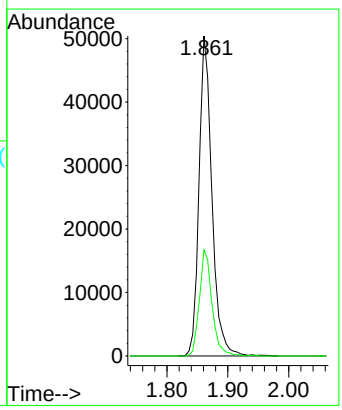


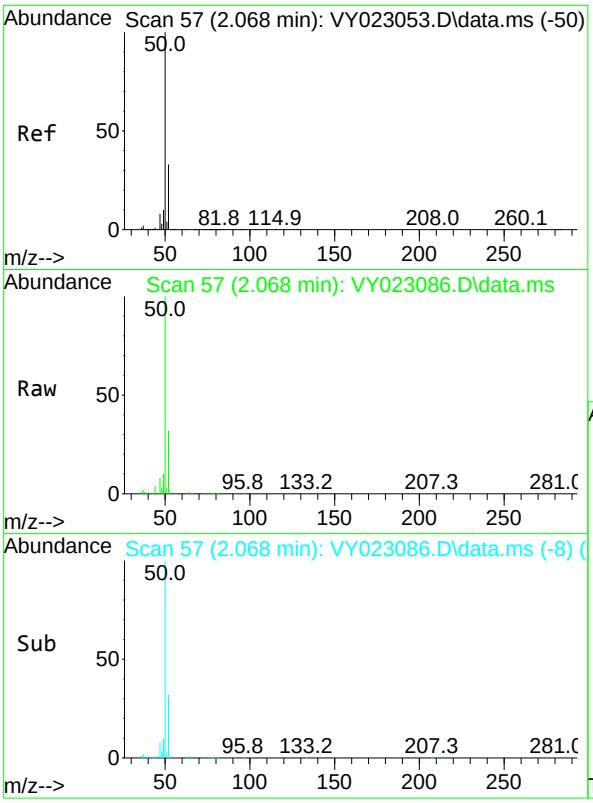




#2
Dichlorodifluoromethane
Concen: 19.980 ug/l
RT: 1.861 min Scan# 23
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 85 Resp: 74341

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.1 | 16.6 | 49.8 |



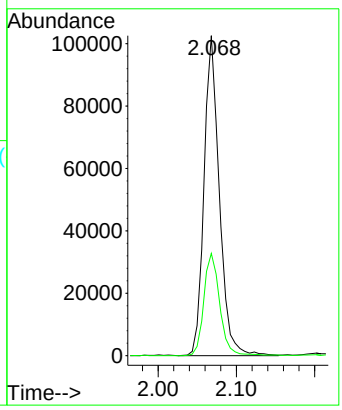


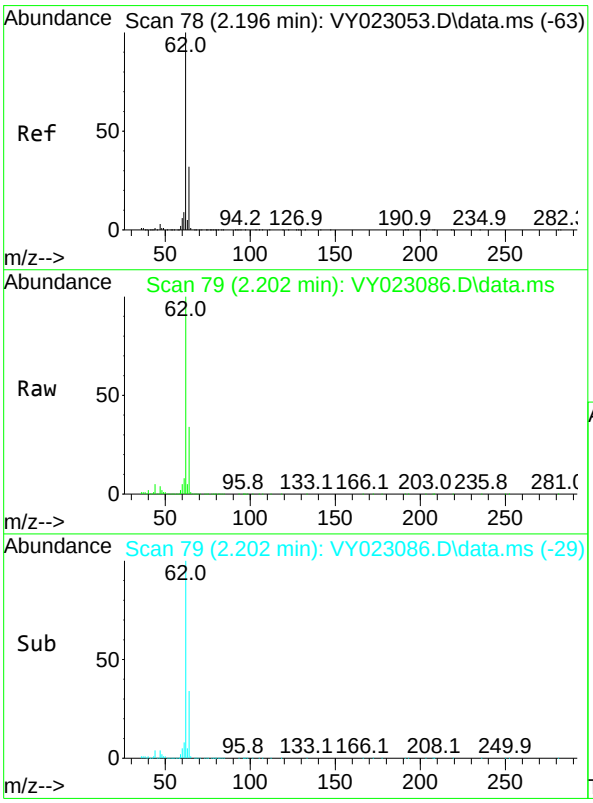

#3
Chloromethane
Concen: 23.098 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion: 50 Resp: 139194

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.0 | 26.7 | 40.1 |

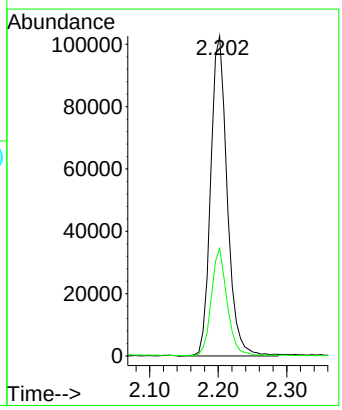


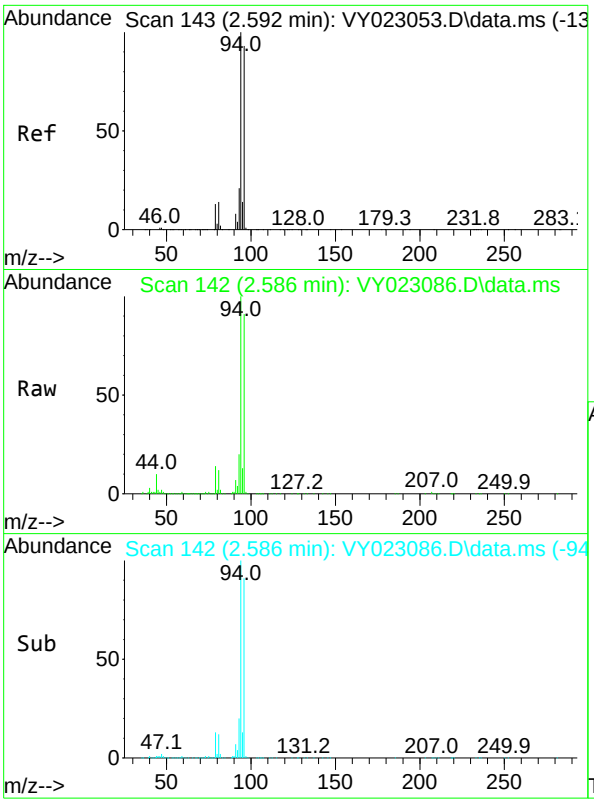




#4
Vinyl Chloride
Concen: 23.116 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 62 Resp: 172200

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 33.4 | 25.4 | 38.0 |



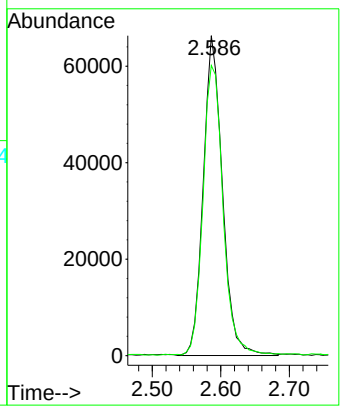


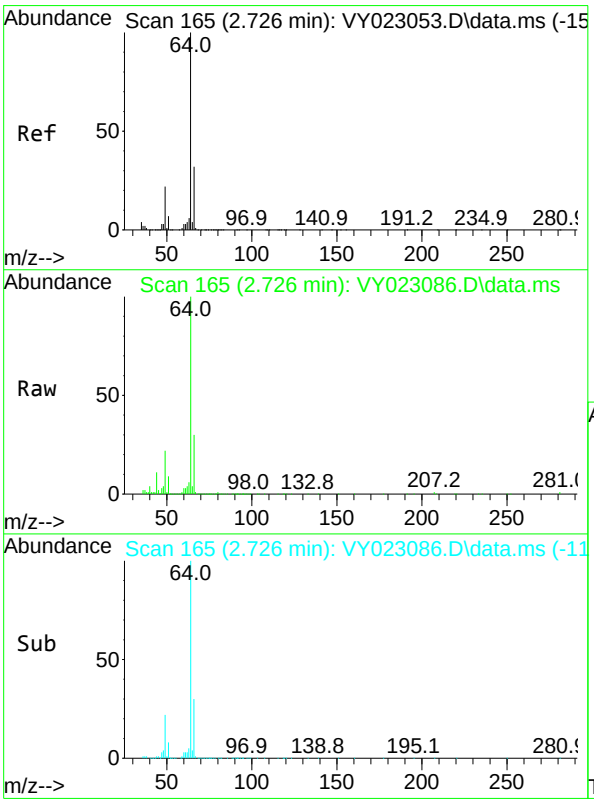

#5
Bromomethane
Concen: 23.250 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion: 94 Resp: 129347

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 90.4 | 74.6 | 112.0 |

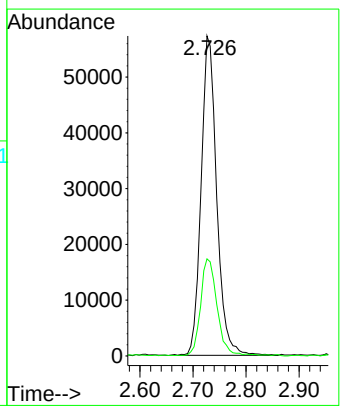


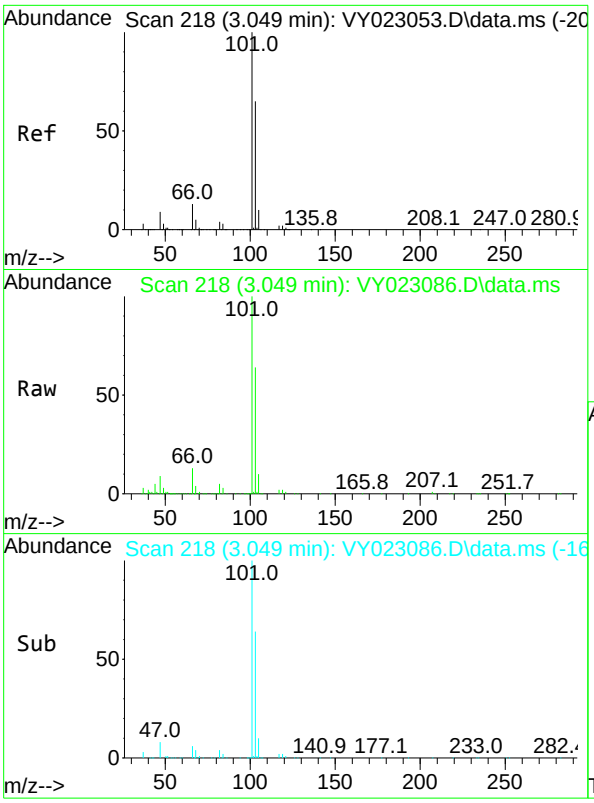




#6
Chloroethane
Concen: 23.545 ug/l
RT: 2.726 min Scan# 165
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 64 Resp: 116610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.2 | 25.8 | 38.6 |



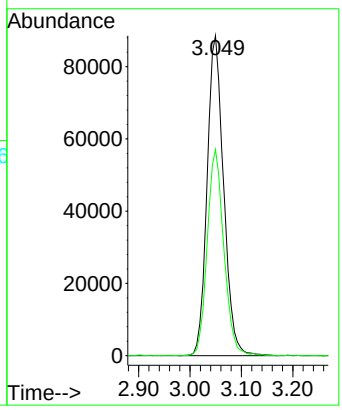


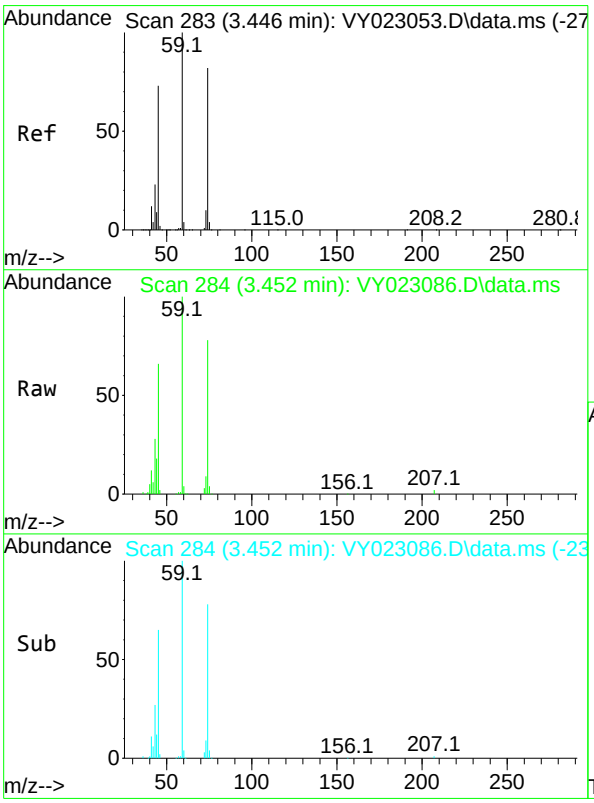

#7
Trichlorofluoromethane
Concen: 21.815 ug/l
RT: 3.049 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion:101 Resp: 197599

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.4 | 51.9 | 77.9 |

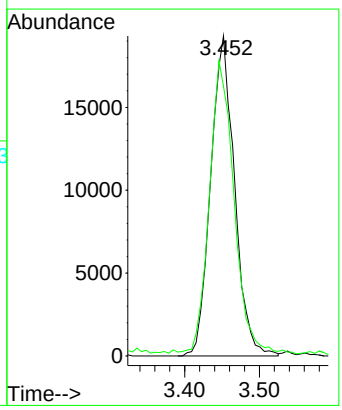


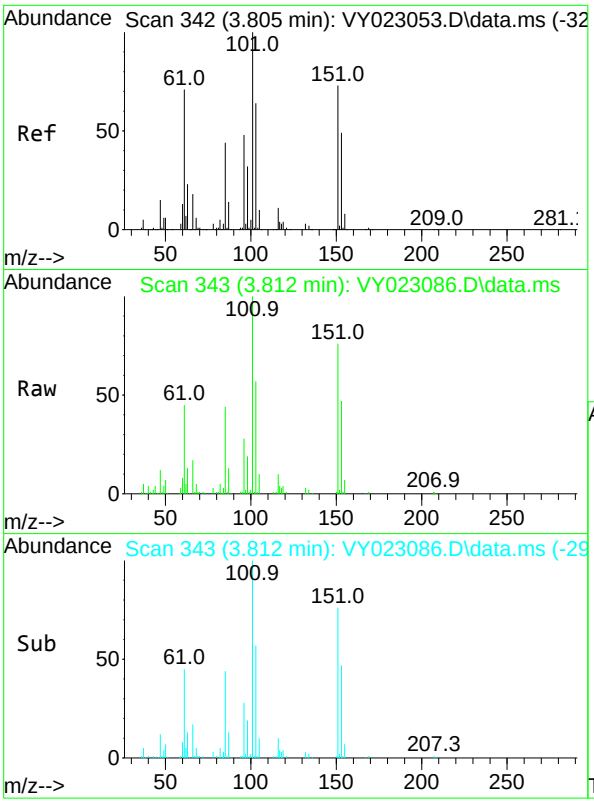




#8
Diethyl Ether
Concen: 17.867 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 74 Resp: 42819

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 94.9 | 44.4 | 133.2 |



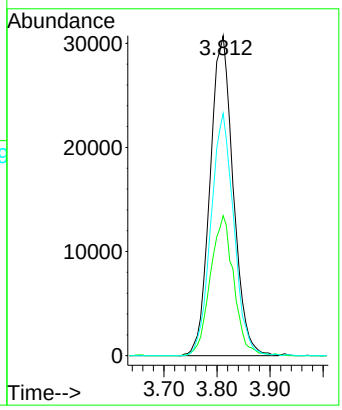


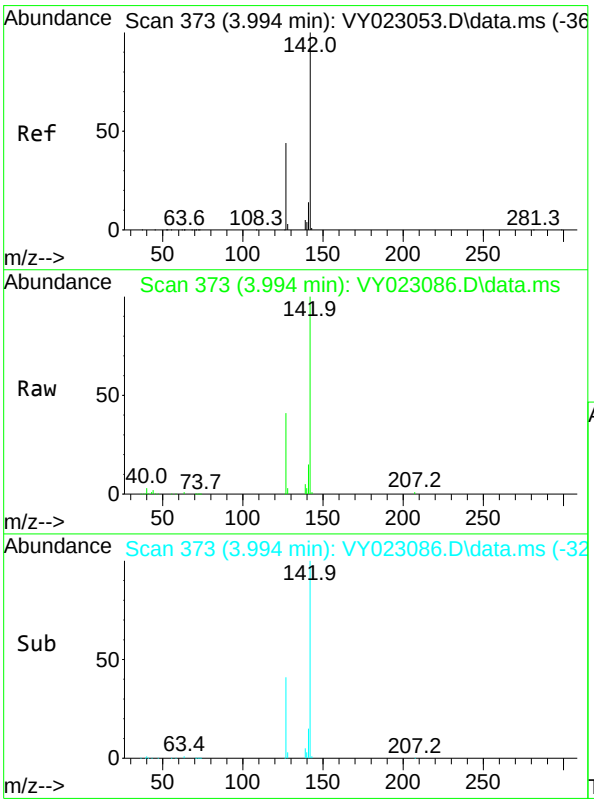

#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.865 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion:101 Resp: 93242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 44.2 | 36.3 | 54.5 |
| 151 | 75.1 | 61.5 | 92.3 |

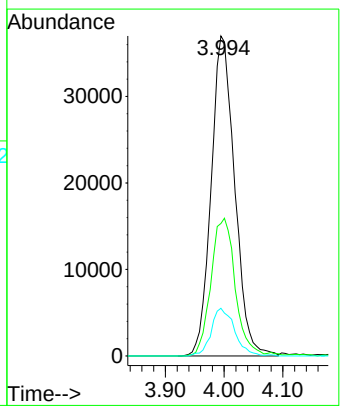


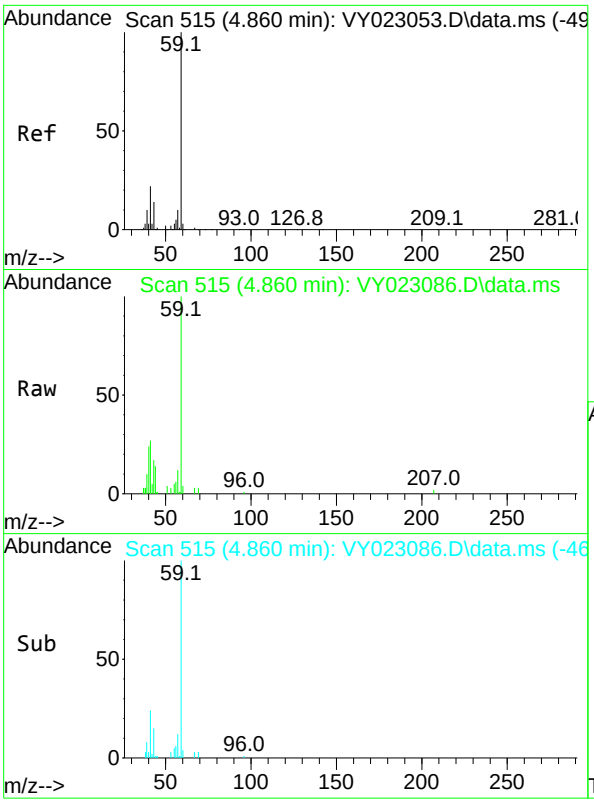




#10
Methyl Iodide
Concen: 21.381 ug/l
RT: 3.994 min Scan# 373
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:142 Resp: 103105

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 44.3 | 34.9 | 52.3 |
| 141 | 14.8 | 11.3 | 16.9 |



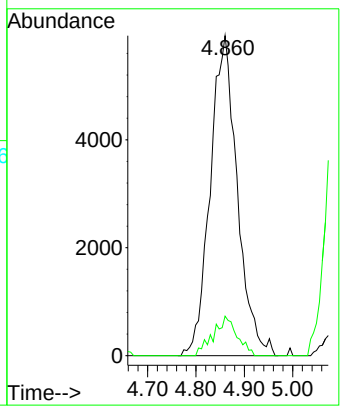


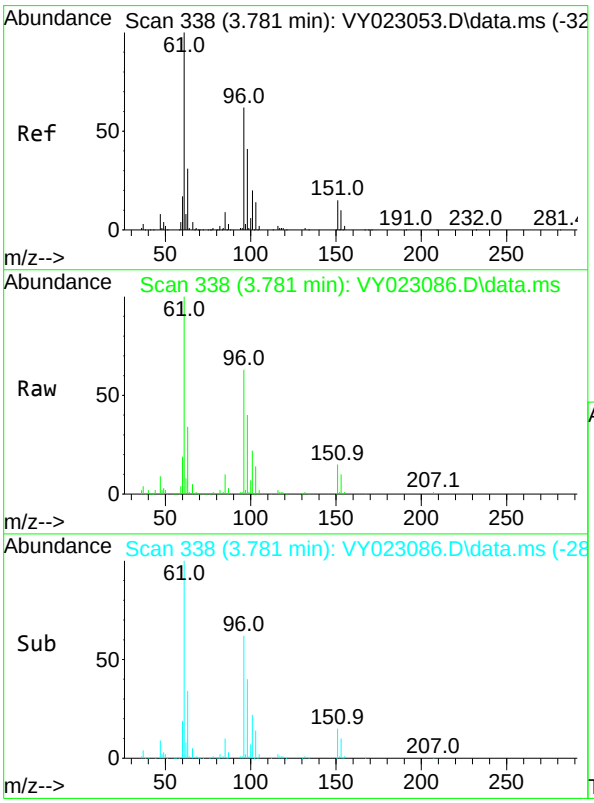

#11
Tert butyl alcohol
Concen: 77.519 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion: 59 Resp: 23075

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.8 | 8.6 | 13.0 |

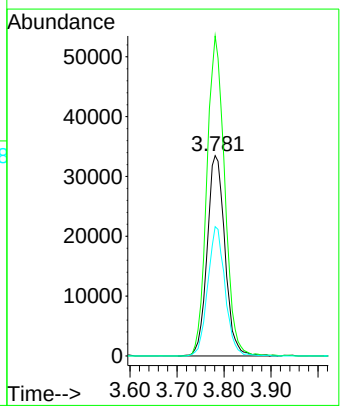


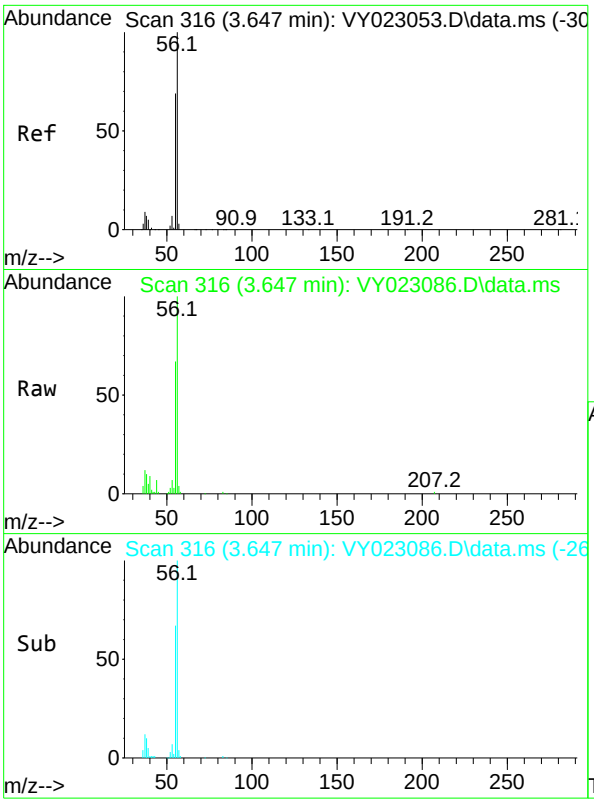




#12
1,1-Dichloroethene
Concen: 20.003 ug/l
RT: 3.781 min Scan# 338
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 96 Resp: 87863

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 159.8 | 129.4 | 194.2 |
| 98 | 64.5 | 52.8 | 79.2 |



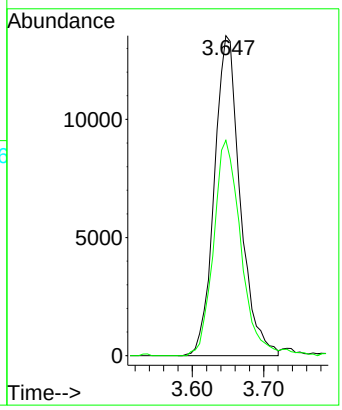


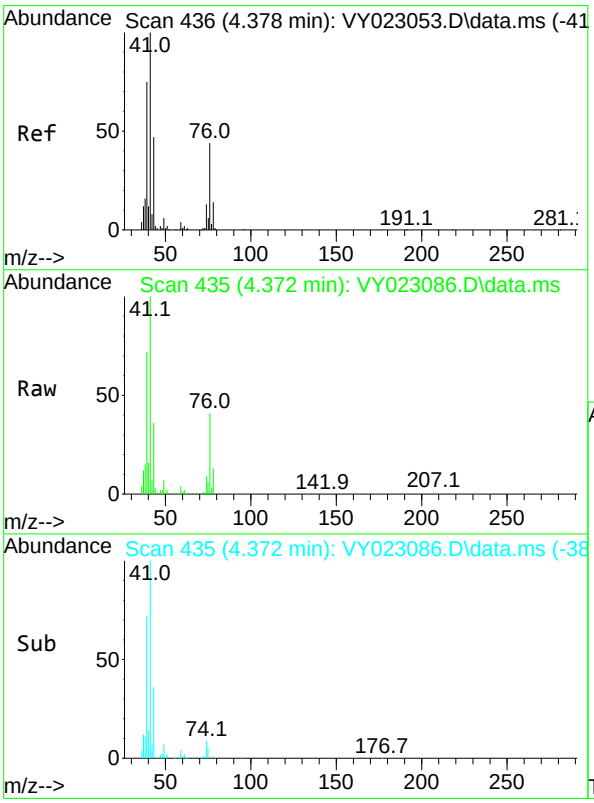

#13
Acrolein
Concen: 78.072 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion: 56 Resp: 34035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 71.6 | 55.2 | 82.8 |

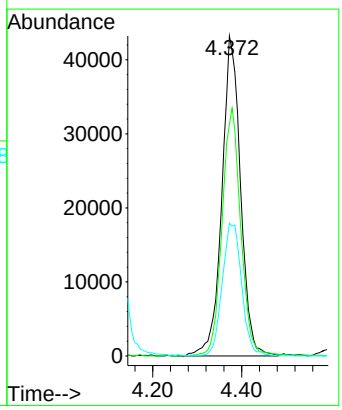


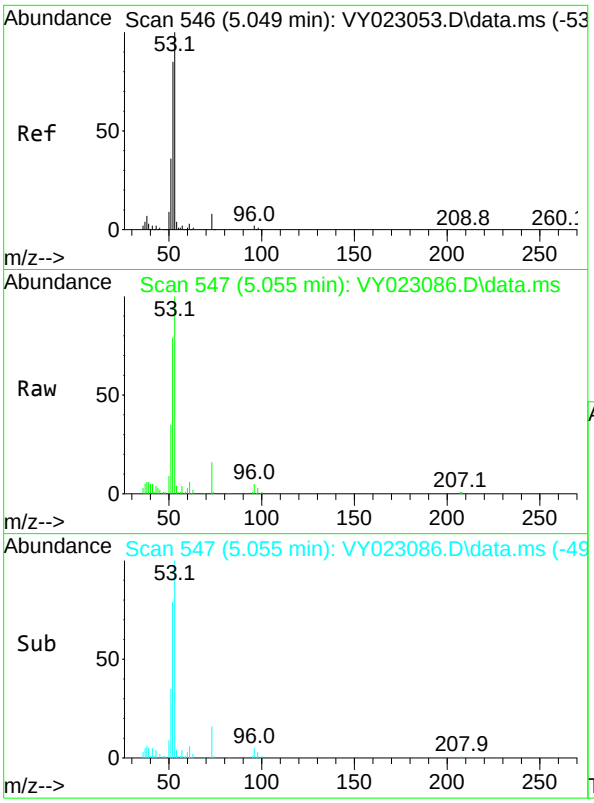




#14
Allyl chloride
Concen: 19.470 ug/l
RT: 4.372 min Scan# 435
Delta R.T. -0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 41 Resp: 125844

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 77.3 | 59.8 | 89.6 |
| 76 | 43.1 | 33.7 | 50.5 |



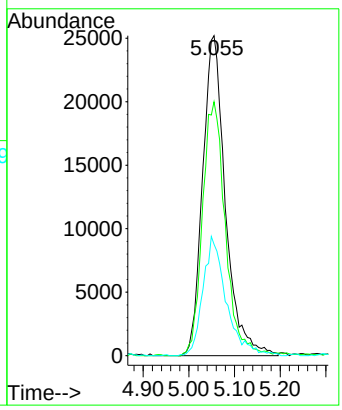


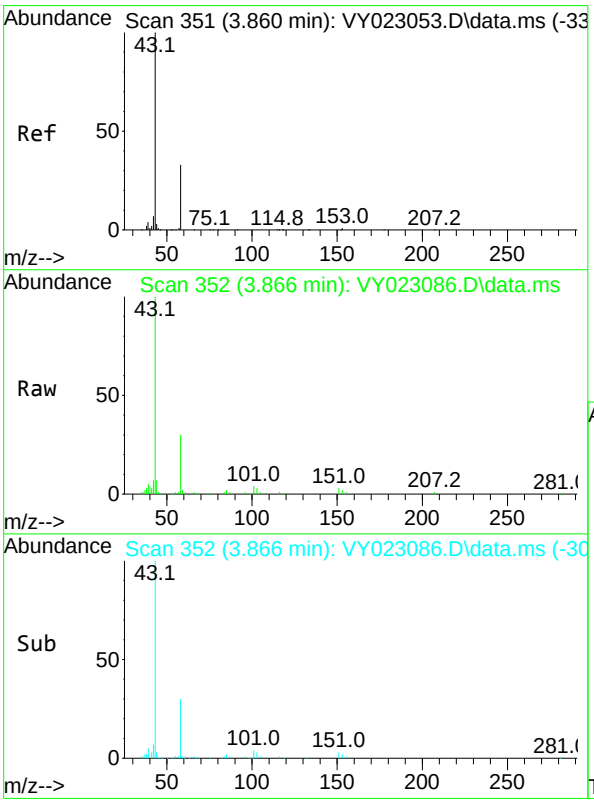

#15
Acrylonitrile
Concen: 89.605 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion: 53 Resp: 87301

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 79.5 | 65.3 | 97.9 |
| 51 | 38.2 | 29.5 | 44.3 |

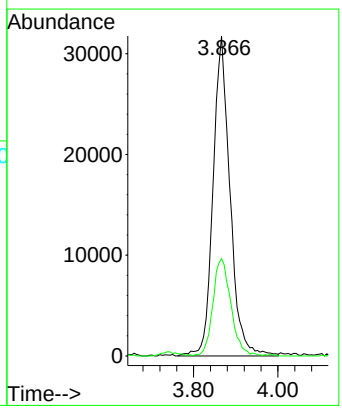


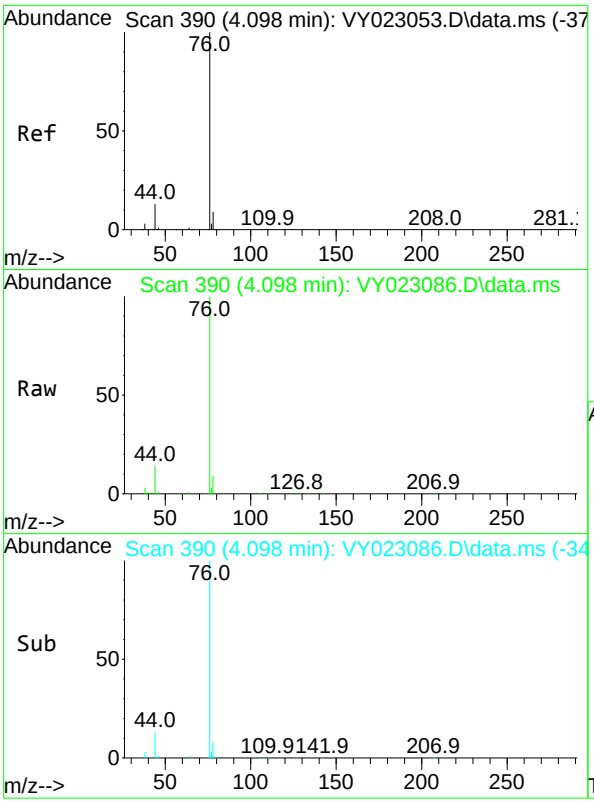




#16
Acetone
Concen: 94.185 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 43 Resp: 88645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 30.4 | 27.1 | 40.7 |



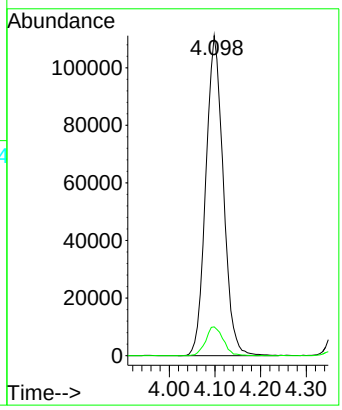


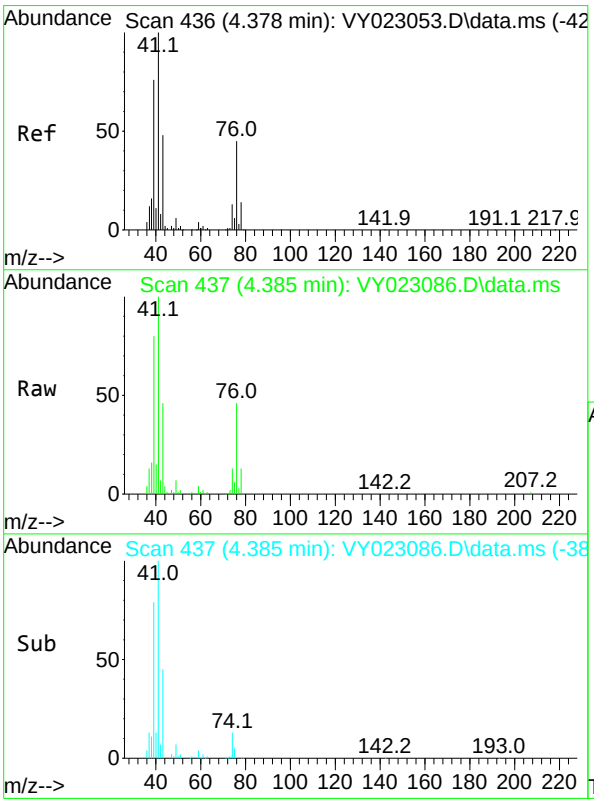

#17
Carbon Disulfide
Concen: 20.624 ug/l
RT: 4.098 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion: 76 Resp: 295393

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.0 | 7.4 | 11.2 |

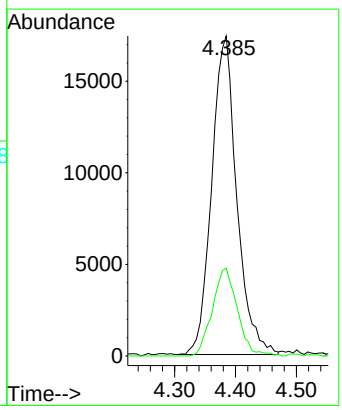


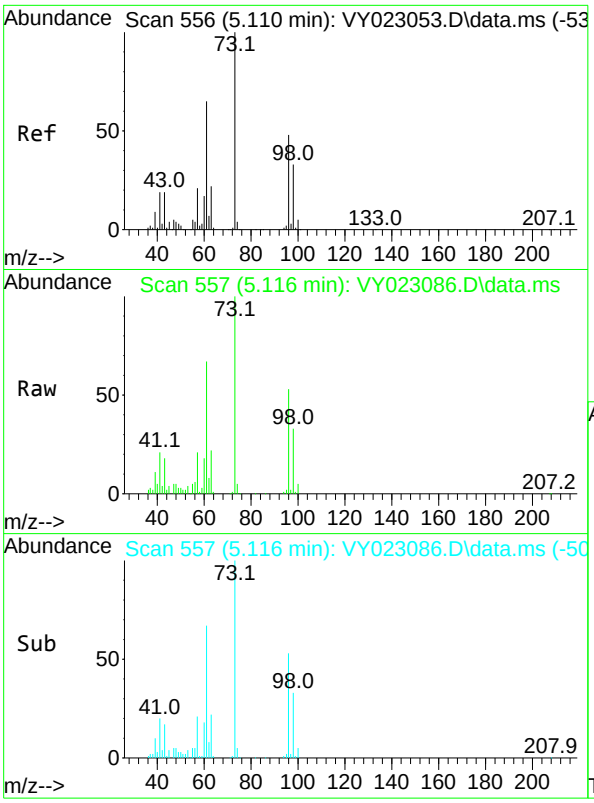




#18
Methyl Acetate
Concen: 17.778 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 43 Resp: 49793

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 27.4 | 21.2 | 31.8 |



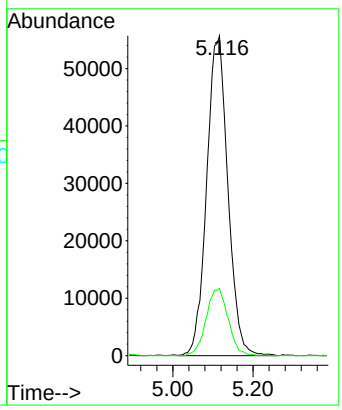


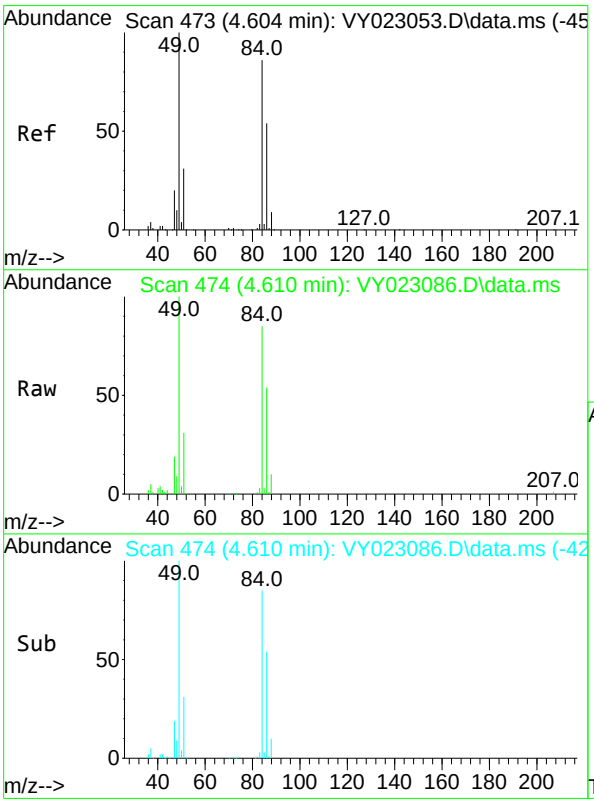

#19
Methyl tert-butyl Ether
Concen: 17.932 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion: 73 Resp: 204114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.1 | 17.1 | 25.7 |

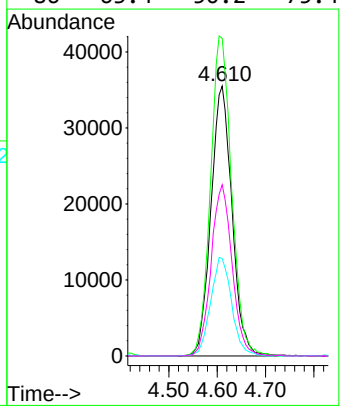


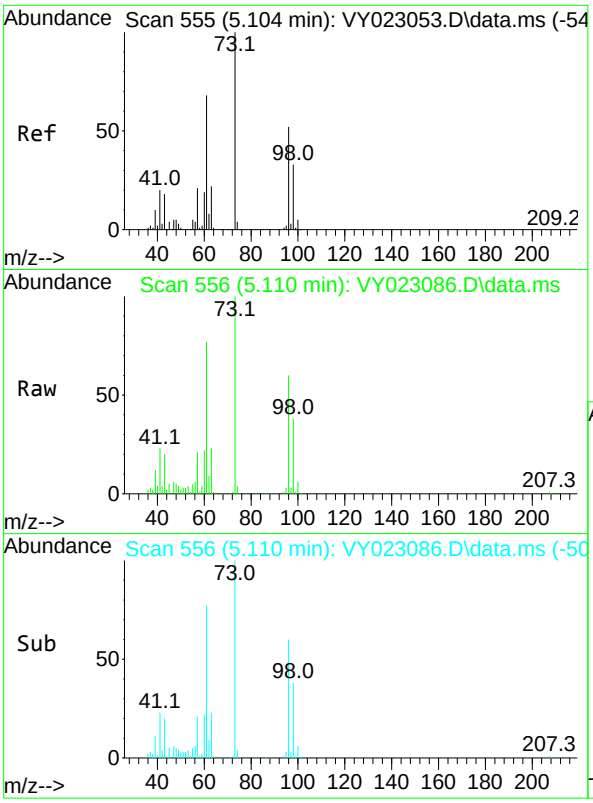




#20
Methylene Chloride
Concen: 20.355 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 84 Resp: 107429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 117.7 | 93.0 | 139.6 |
| 51 | 36.1 | 29.0 | 43.4 |
| 86 | 63.4 | 50.2 | 75.4 |



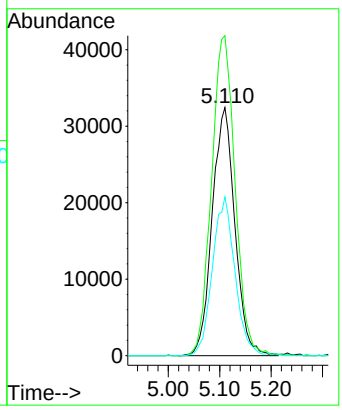


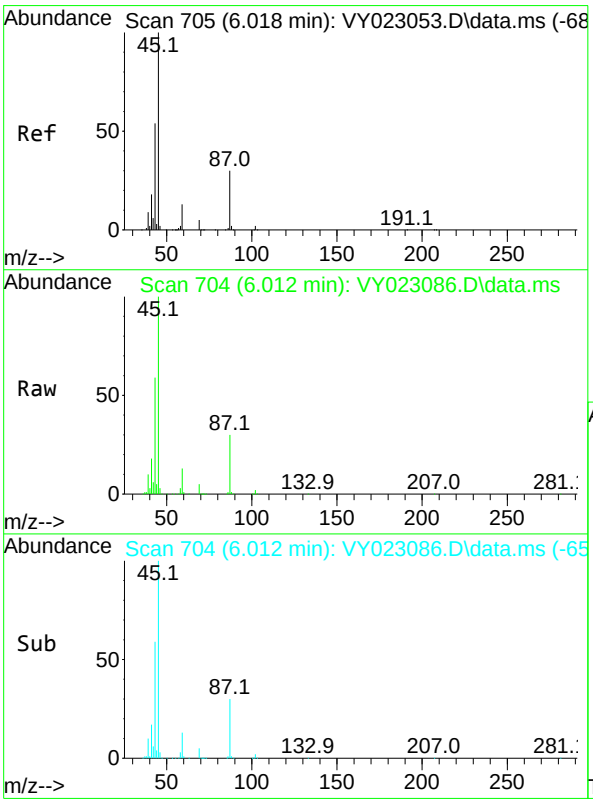

#21
trans-1,2-Dichloroethene
Concen: 20.198 ug/l
RT: 5.110 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion: 96 Resp: 99704

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 128.9 | 104.8 | 157.2 |
| 98 | 64.0 | 50.1 | 75.1 |

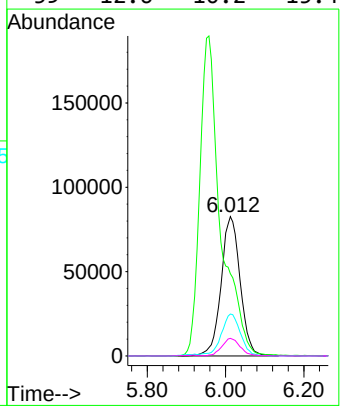


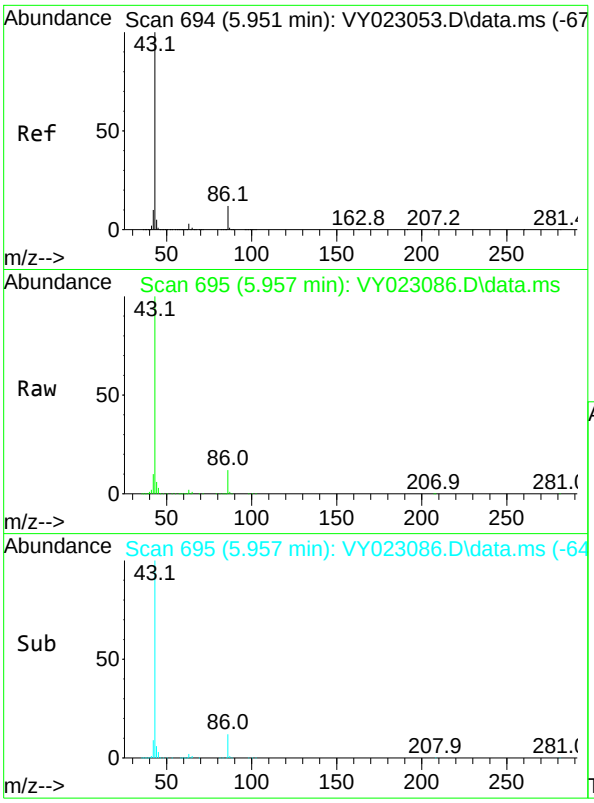




#22
Diisopropyl ether
Concen: 19.929 ug/l
RT: 6.012 min Scan# 704
Delta R.T. -0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 45 Resp: 279897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 59.0 | 43.4 | 65.0 |
| 87 | 30.1 | 24.4 | 36.6 |
| 59 | 12.6 | 10.2 | 15.4 |



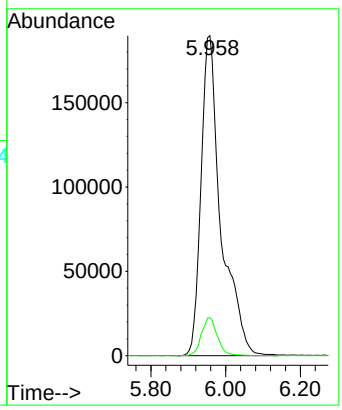


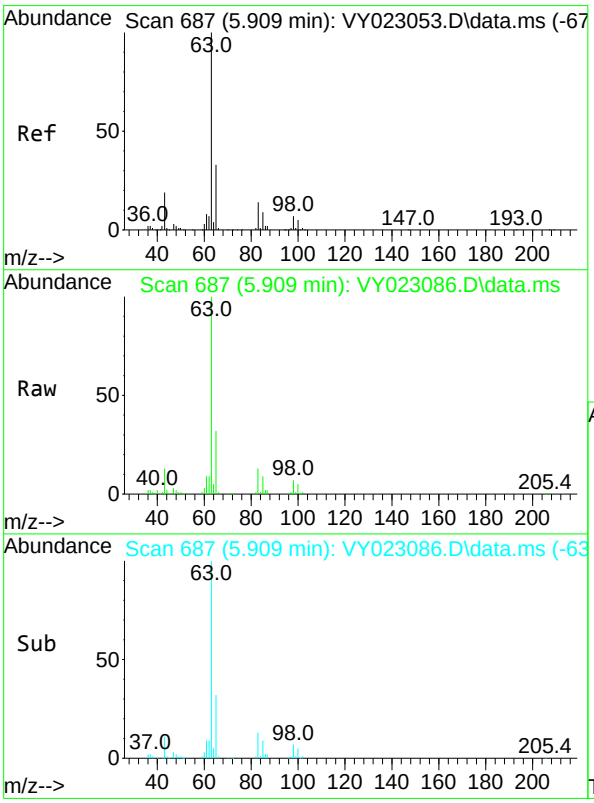

#23
Vinyl Acetate
Concen: 90.570 ug/l
RT: 5.957 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion: 43 Resp: 703379

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.9 | 9.6 | 14.4 |

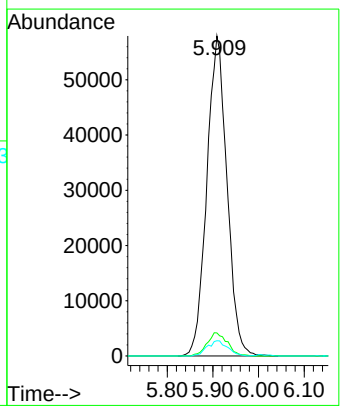


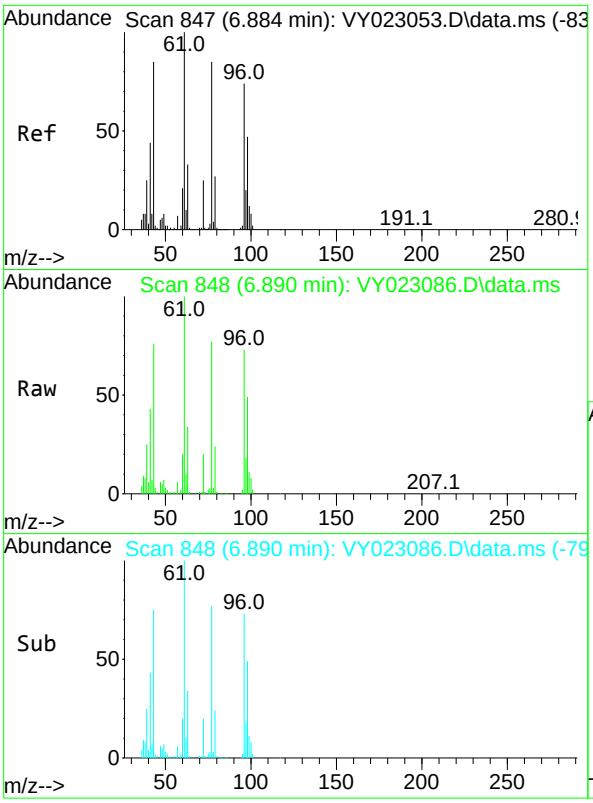




#24
1,1-Dichloroethane
Concen: 20.666 ug/l
RT: 5.909 min Scan# 687
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 63 Resp: 177456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.2 | 3.5 | 10.6 |
| 100 | 4.7 | 2.4 | 7.1 |



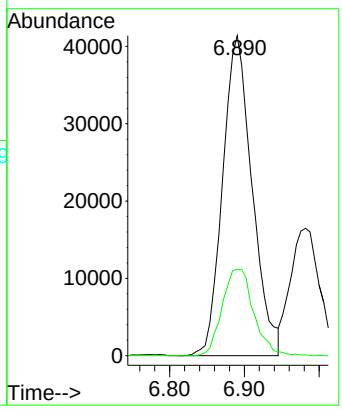


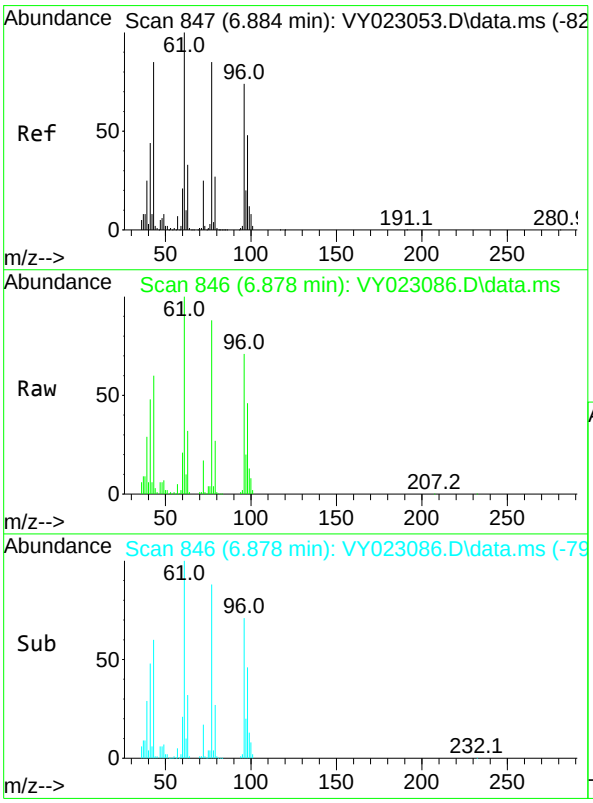

#25
2-Butanone
Concen: 88.799 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion: 43 Resp: 113667

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 26.8 | 23.5 | 35.3 |

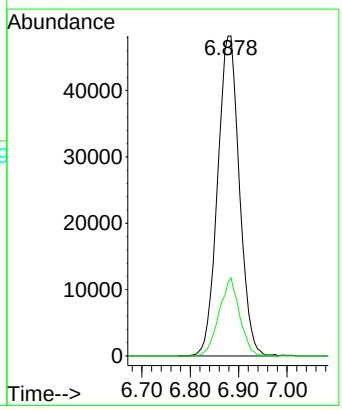


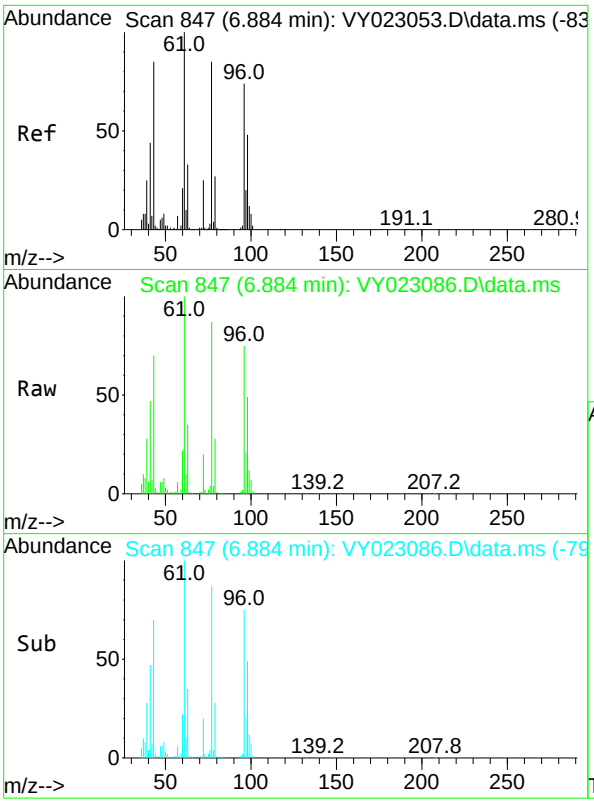




#26
2,2-Dichloropropane
Concen: 20.328 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 77 Resp: 150616

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.0 | 11.6 | 34.8 |



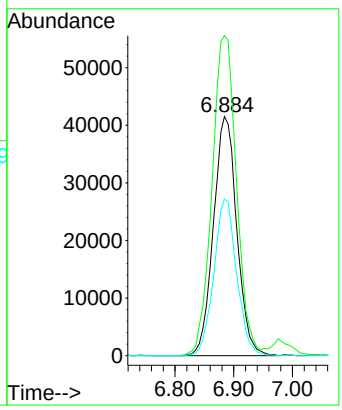


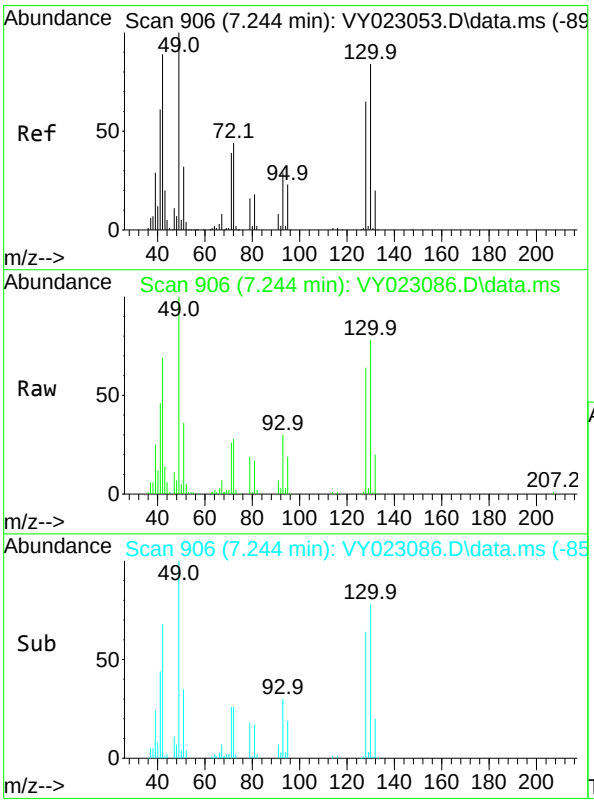

#27
cis-1,2-Dichloroethene
Concen: 20.100 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion: 96 Resp: 114706

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 139.9 | 0.0 | 278.6 |
| 98 | 64.0 | 0.0 | 130.4 |

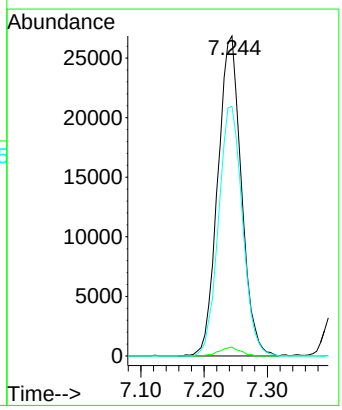


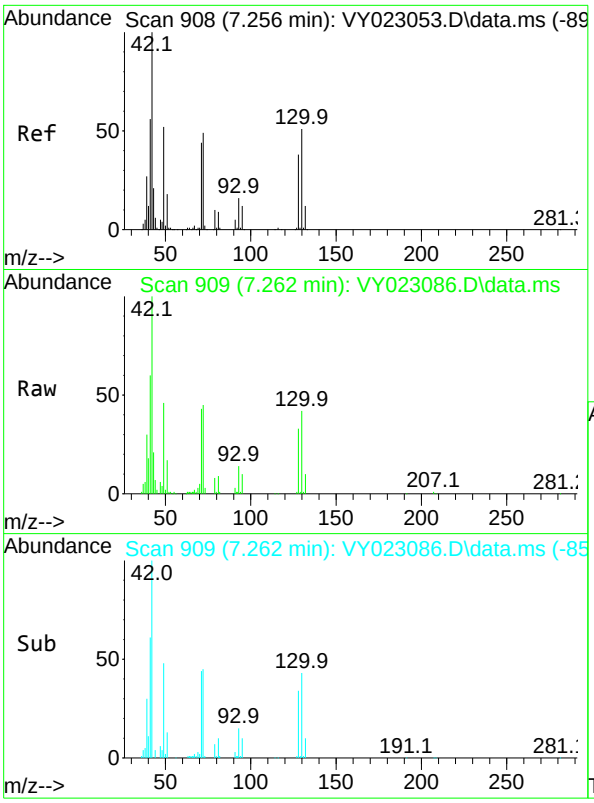




#28
Bromochloromethane
Concen: 20.335 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 49 Resp: 69276

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.4 | 0.0 | 4.2 |
| 130 | 79.4 | 66.4 | 99.6 |



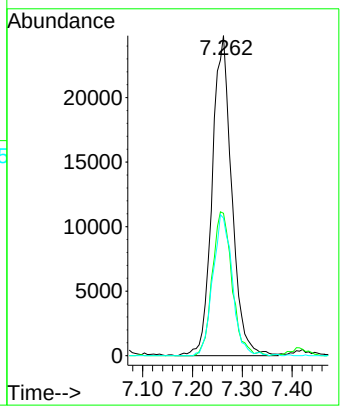


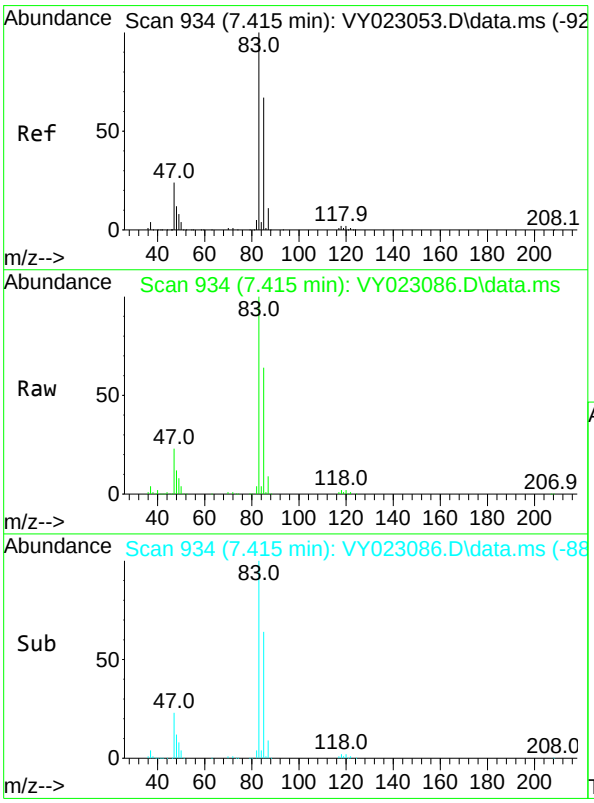

#29
Tetrahydrofuran
Concen: 85.363 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion: 42 Resp: 67731

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 45.3 | 39.4 | 59.2 |
| 71 | 43.6 | 36.5 | 54.7 |

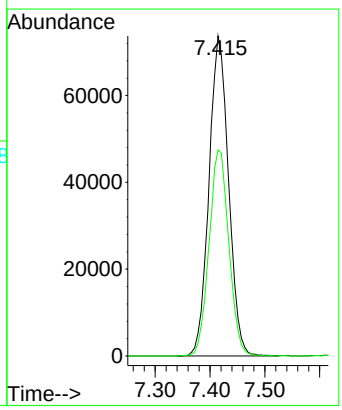


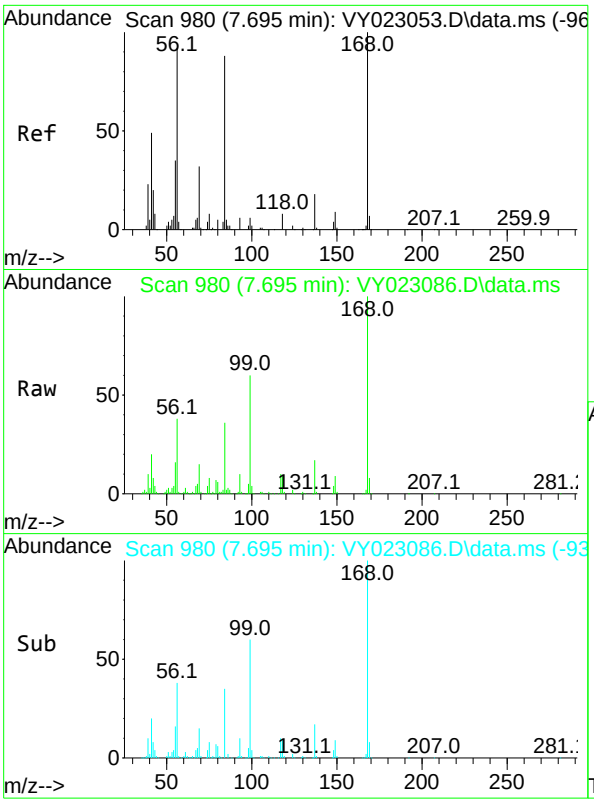




#30
Chloroform
Concen: 20.591 ug/l
RT: 7.415 min Scan# 934
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 83 Resp: 182352

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.4 | 53.8 | 80.8 |



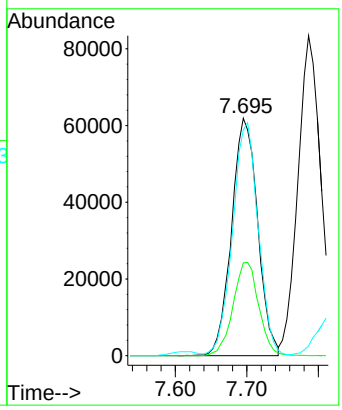


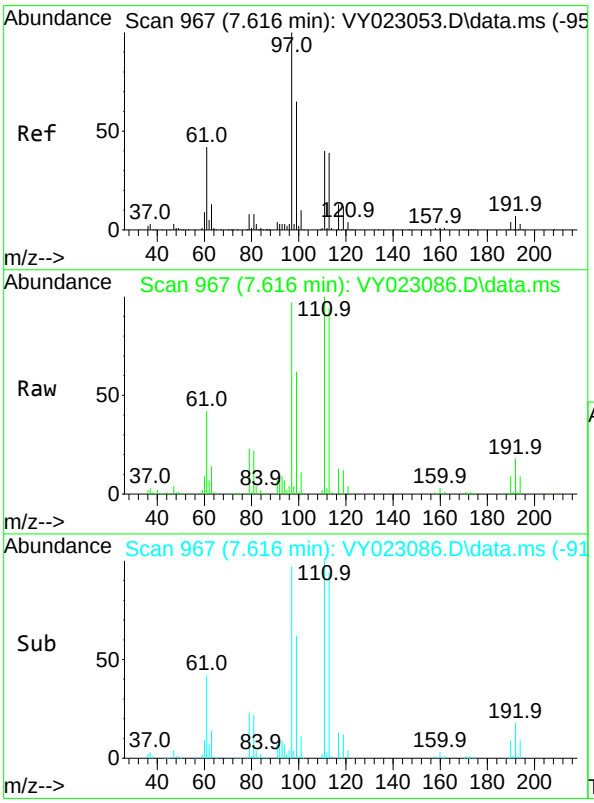

#31
Cyclohexane
Concen: 19.392 ug/l
RT: 7.695 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion: 56 Resp: 156917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 39.1 | 28.2 | 42.2 |
| 84 | 93.6 | 76.6 | 114.8 |

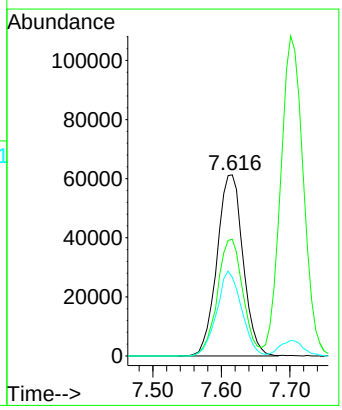


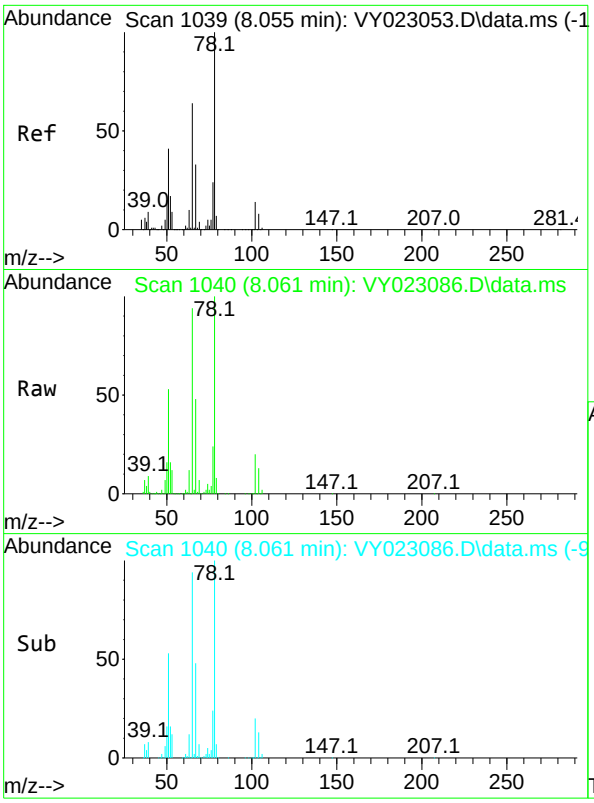




#32
1,1,1-Trichloroethane
Concen: 20.543 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 97 Resp: 161426

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.4 | 51.6 | 77.4 |
| 61 | 44.8 | 34.2 | 51.2 |



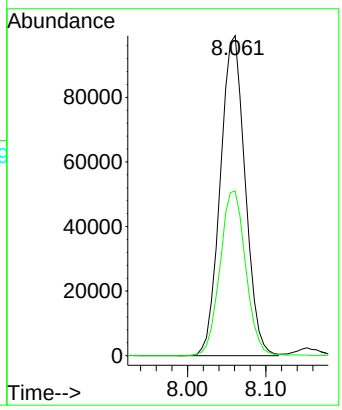


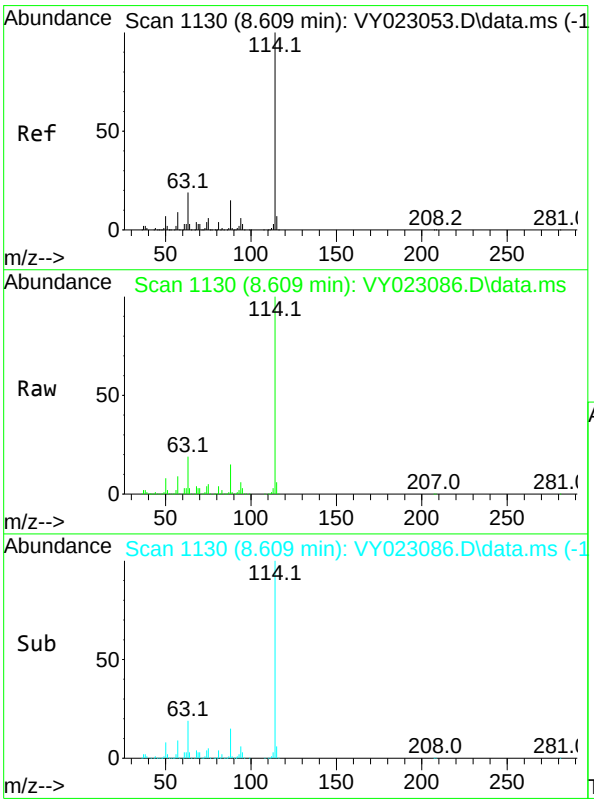

#33
1,2-Dichloroethane-d4
Concen: 50.253 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion: 65 Resp: 218317

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.1 | 0.0 | 106.8 |

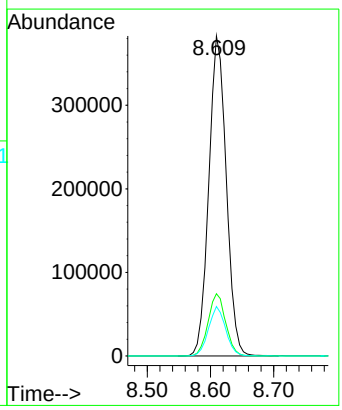


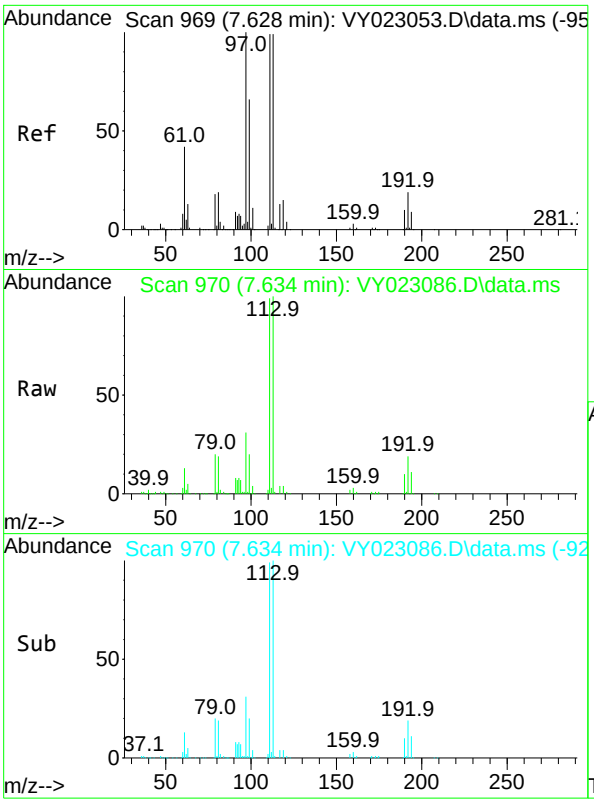




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:114 Resp: 734618

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.5 | 0.0 | 38.4 |
| 88 | 15.4 | 0.0 | 30.0 |



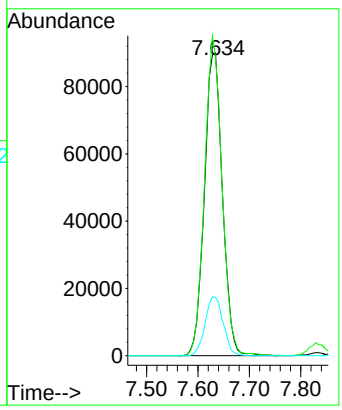


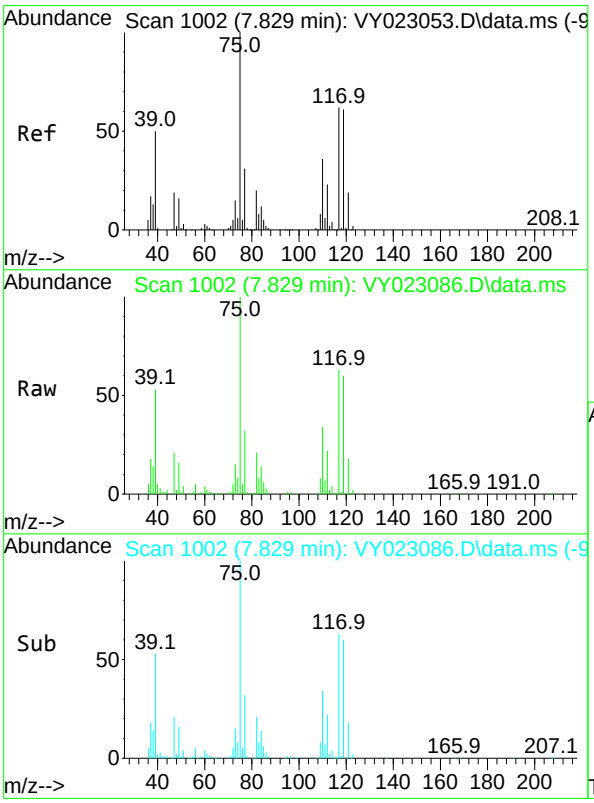

#35
Dibromofluoromethane
Concen: 50.078 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion:113 Resp: 220130

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.0 | 81.1 | 121.7 |
| 192 | 19.4 | 16.2 | 24.4 |

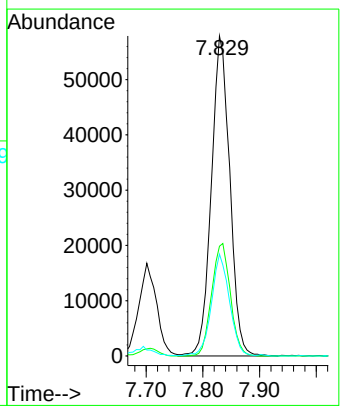


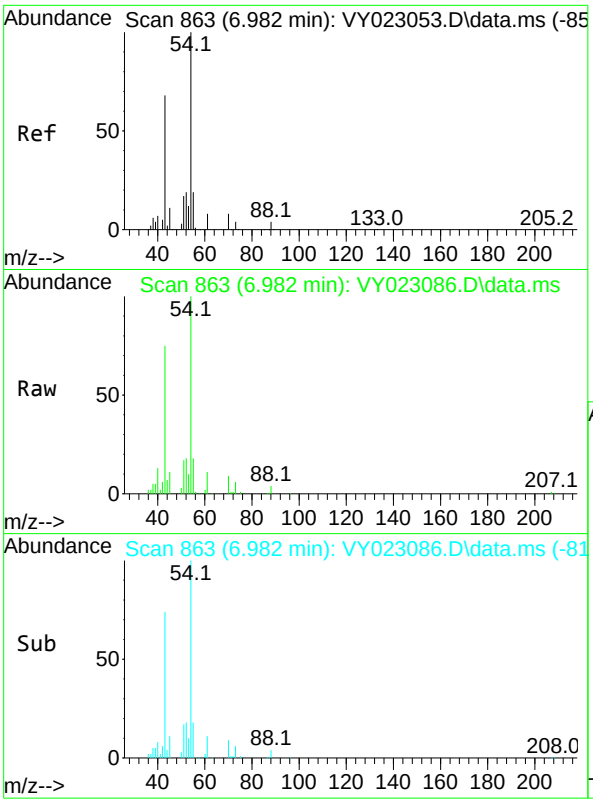




#36
1,1-Dichloropropene
Concen: 20.063 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 75 Resp: 131067

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.5 | 18.1 | 54.4 |
| 77 | 30.8 | 24.6 | 37.0 |



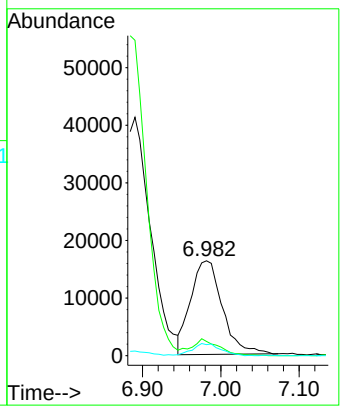


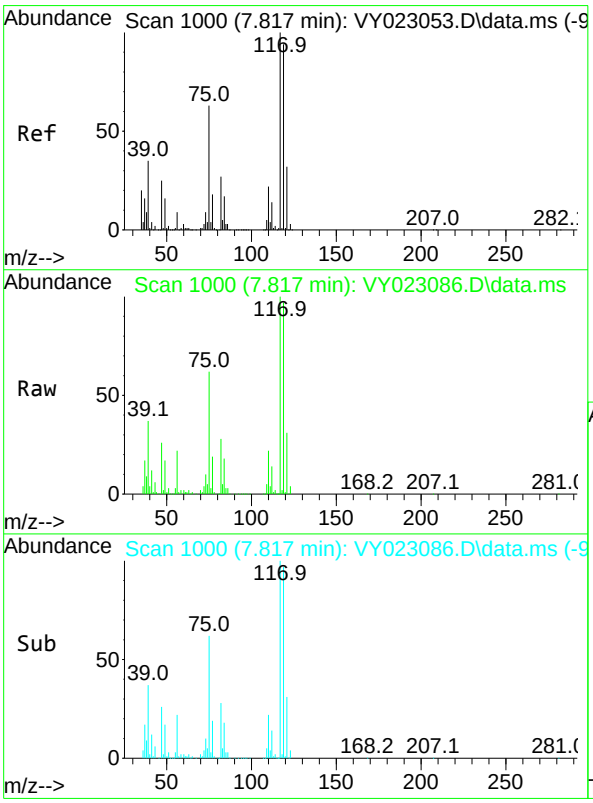

#37
Ethyl Acetate
Concen: 16.687 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion: 43 Resp: 45793

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.7 | 11.9 | 17.9 |
| 70 | 11.4 | 8.8 | 13.2 |

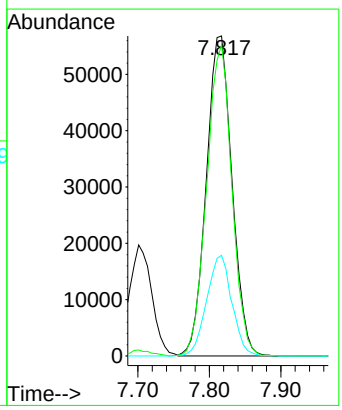


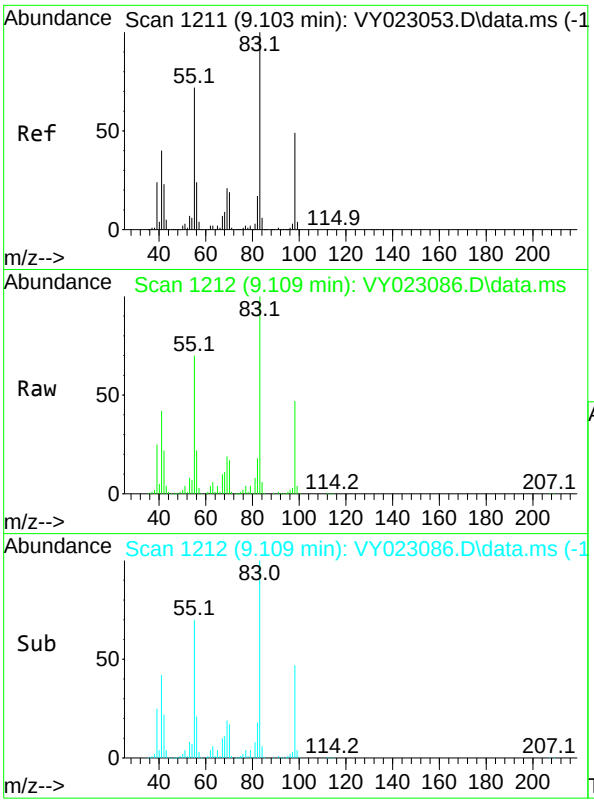




#38
Carbon Tetrachloride
Concen: 20.062 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:117 Resp: 142349

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 97.2 | 75.6 | 113.4 |
| 121 | 31.4 | 25.8 | 38.8 |



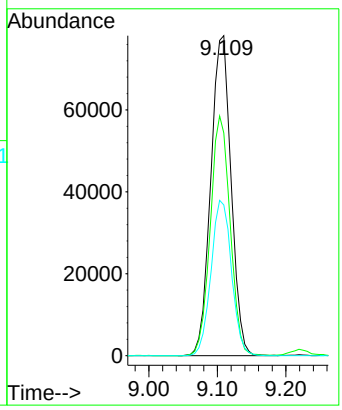


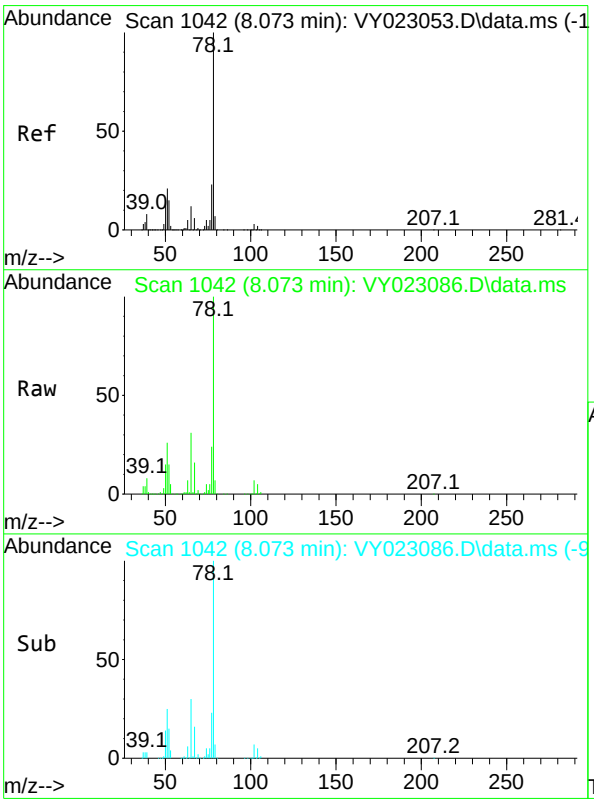

#39
Methylcyclohexane
Concen: 18.690 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion: 83 Resp: 160783

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 69.6 | 57.6 | 86.4 |
| 98 | 47.1 | 39.2 | 58.8 |

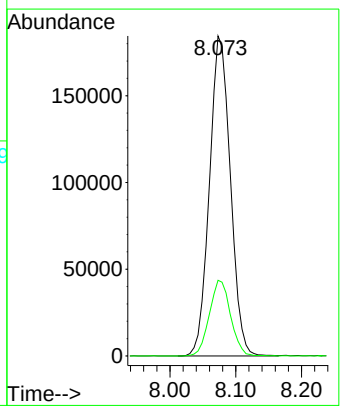


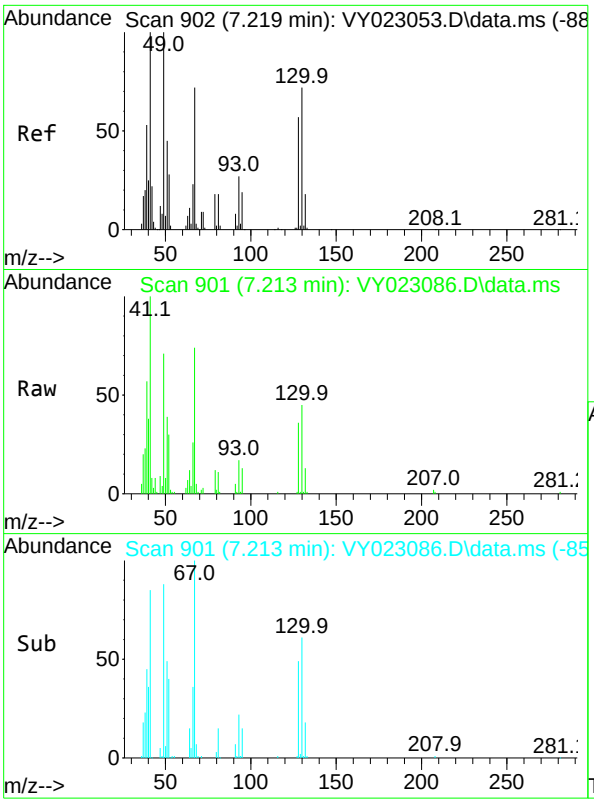




#40
Benzene
Concen: 20.306 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 78 Resp: 408860

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.6 | 18.6 | 28.0 |



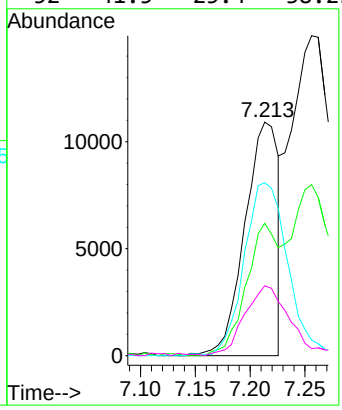


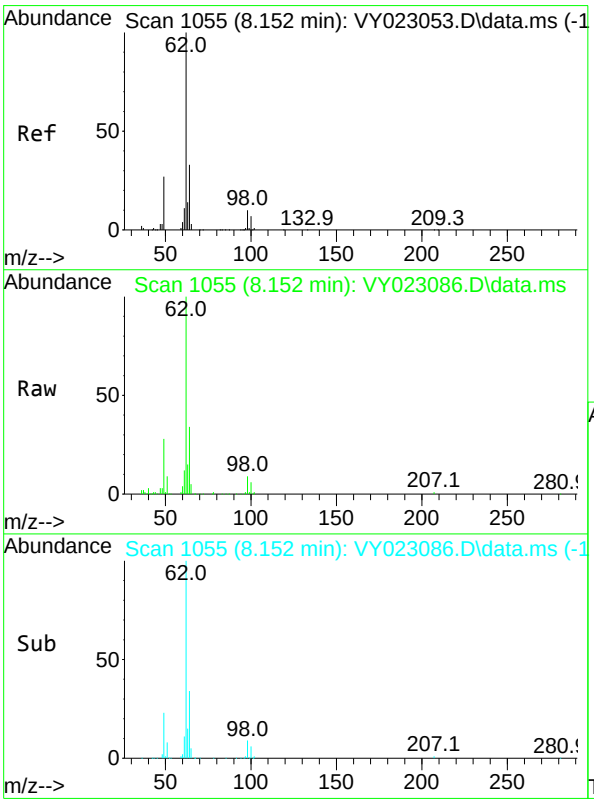

#41
Methacrylonitrile
Concen: 14.607 ug/l
RT: 7.213 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion: 41 Resp: 23134

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 53.2 | 43.4 | 65.2 |
| 67 | 97.5 | 63.6 | 95.4# |
| 52 | 41.5 | 25.4 | 38.2# |

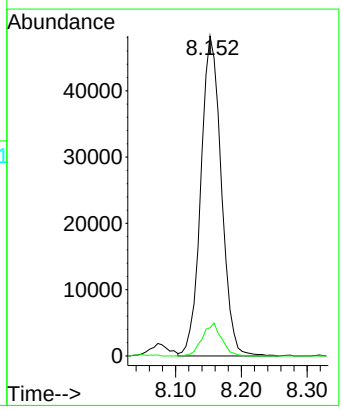


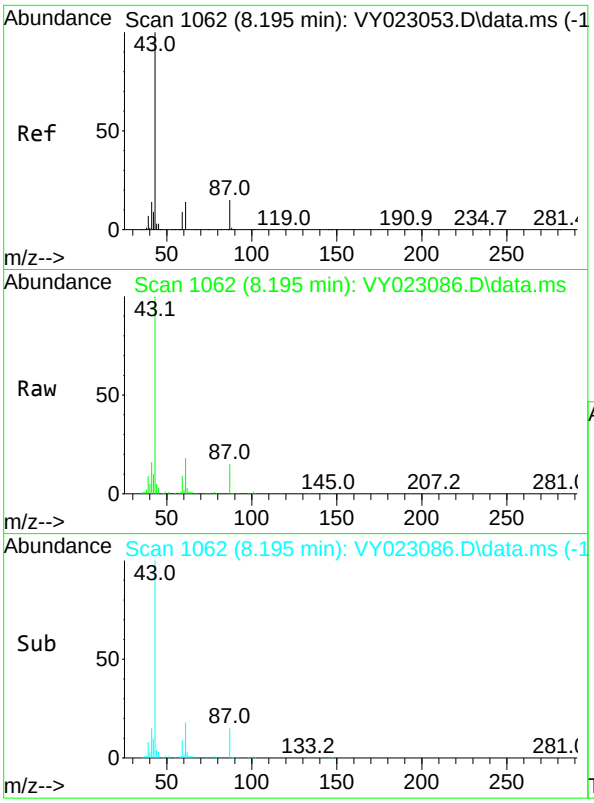




#42
1,2-Dichloroethane
Concen: 19.970 ug/l
RT: 8.152 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 62 Resp: 104577

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.6 | 0.0 | 20.6 |



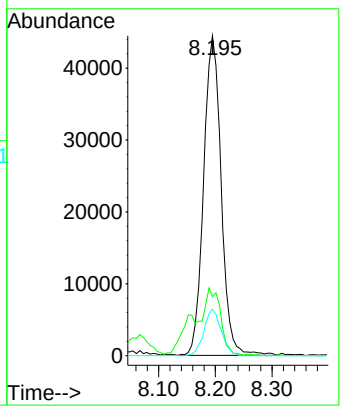


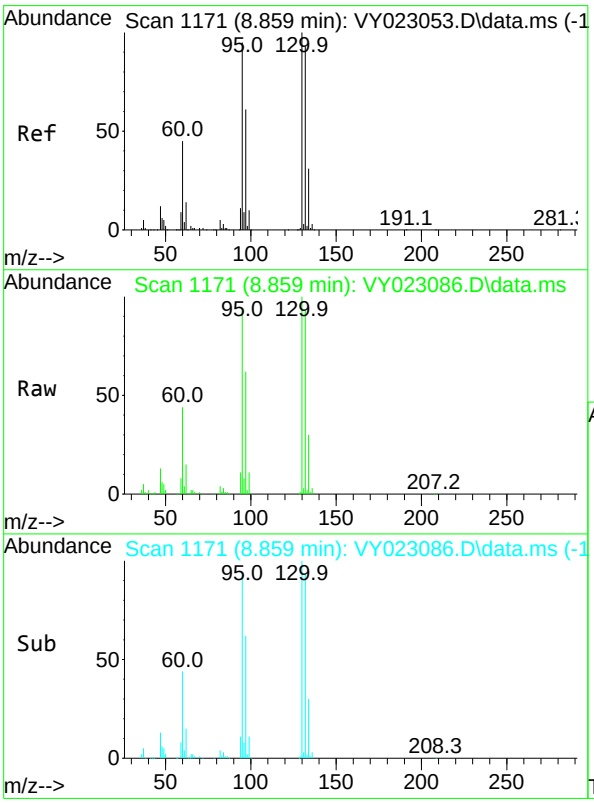

#43
Isopropyl Acetate
Concen: 17.262 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion: 43 Resp: 95745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 19.7 | 16.4 | 24.6 |
| 87 | 14.2 | 11.8 | 17.6 |

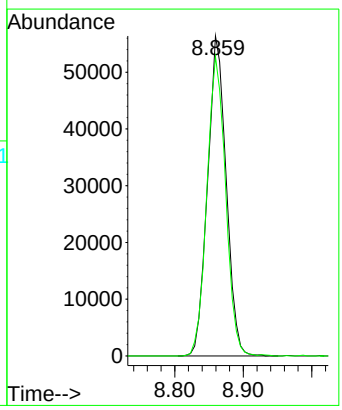


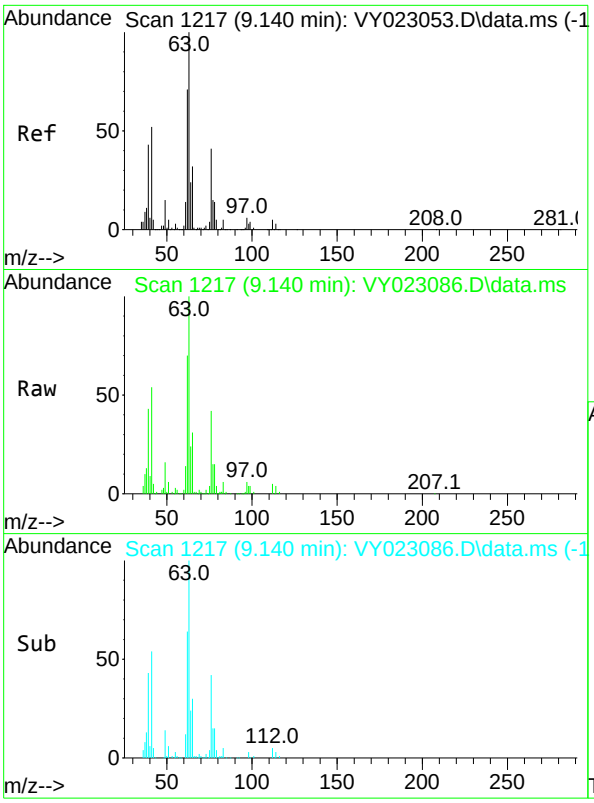




#44
Trichloroethene
Concen: 20.488 ug/l
RT: 8.859 min Scan# 1171
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:130 Resp: 106605

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 93.6 | 0.0 | 190.2 |



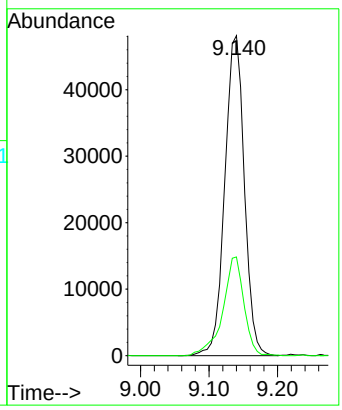


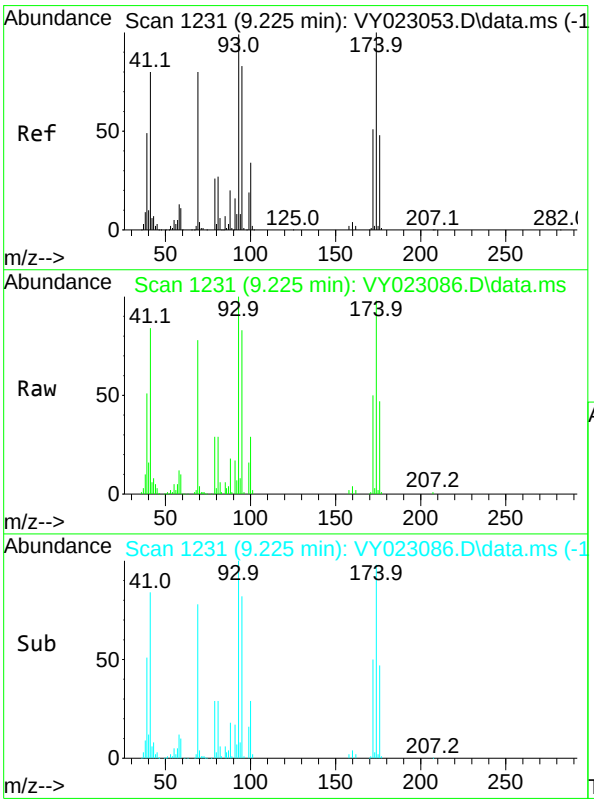

#45
1,2-Dichloropropane
Concen: 20.603 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion: 63 Resp: 95447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.8 | 25.3 | 37.9 |

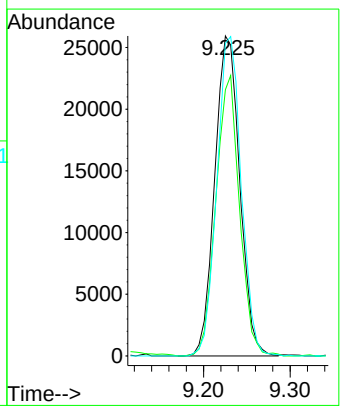


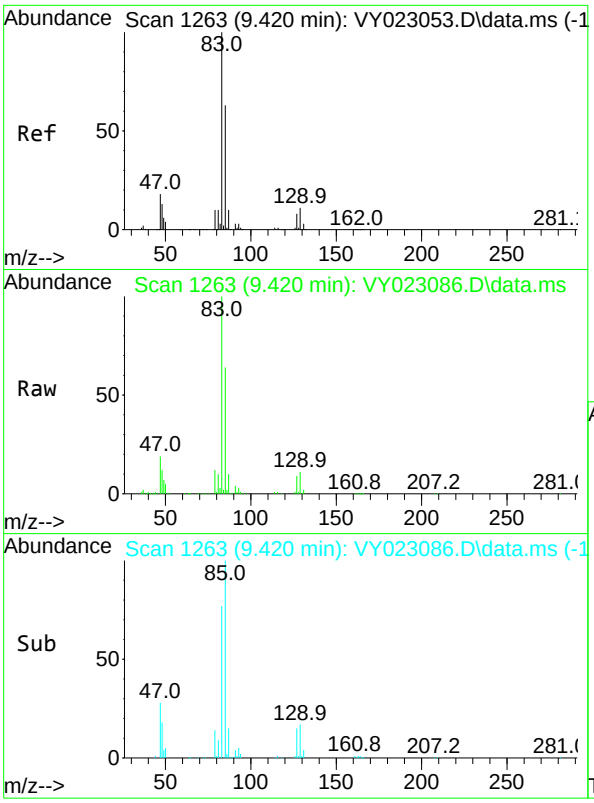




#46
Dibromomethane
Concen: 19.543 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 93 Resp: 51967

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.9 | 66.5 | 99.7 |
| 174 | 97.3 | 81.8 | 122.8 |



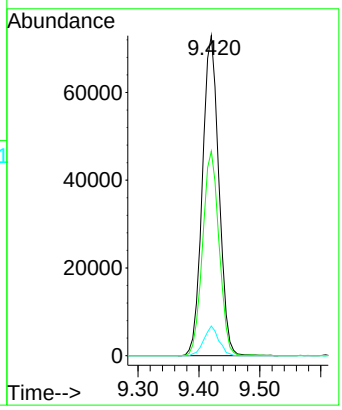


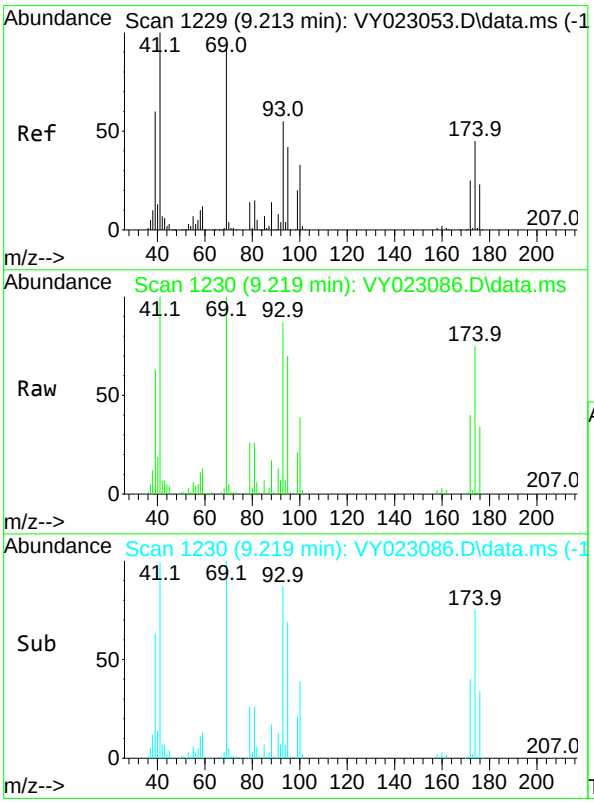

#47
Bromodichloromethane
Concen: 20.042 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion: 83 Resp: 137131

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.9 | 50.2 | 75.4 |
| 127 | 9.2 | 6.6 | 10.0 |

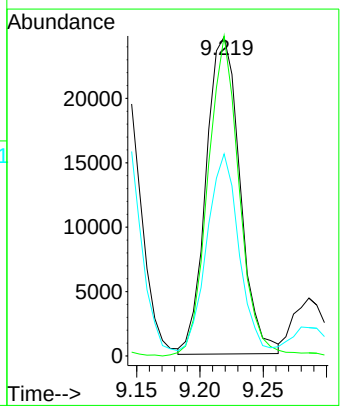


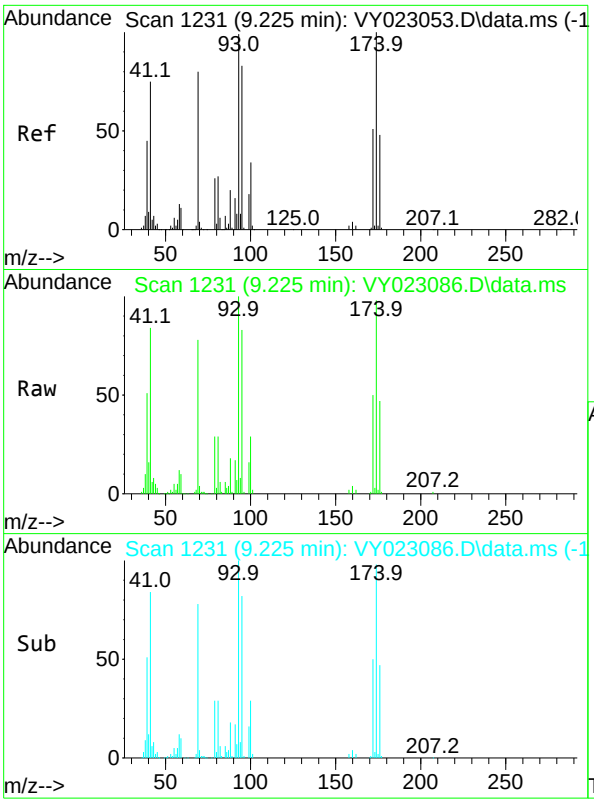




#48
Methyl methacrylate
Concen: 17.327 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 41 Resp: 45987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 93.6 | 73.2 | 109.8 |
| 39 | 58.0 | 47.0 | 70.4 |



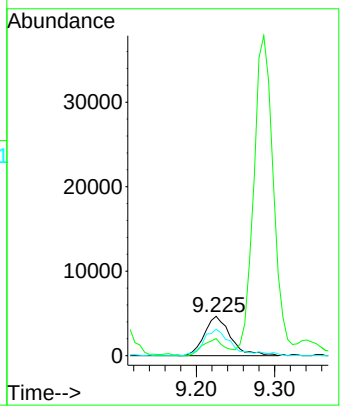


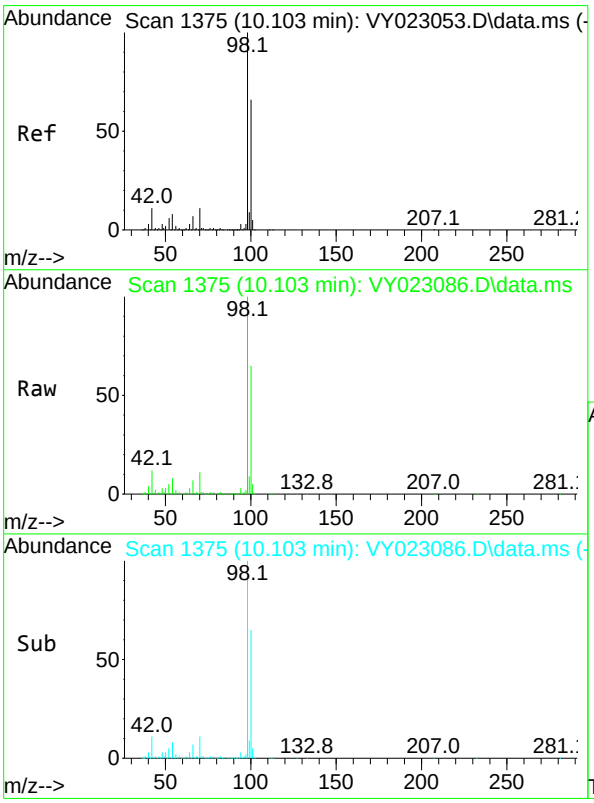

#49
1,4-Dioxane
Concen: 345.913 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion: 88 Resp: 10785

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 37.3 | 24.3 | 36.5# |
| 58 | 67.2 | 55.4 | 83.0 |

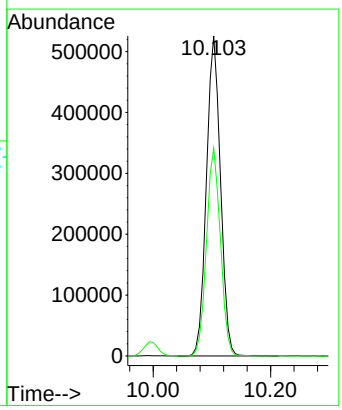


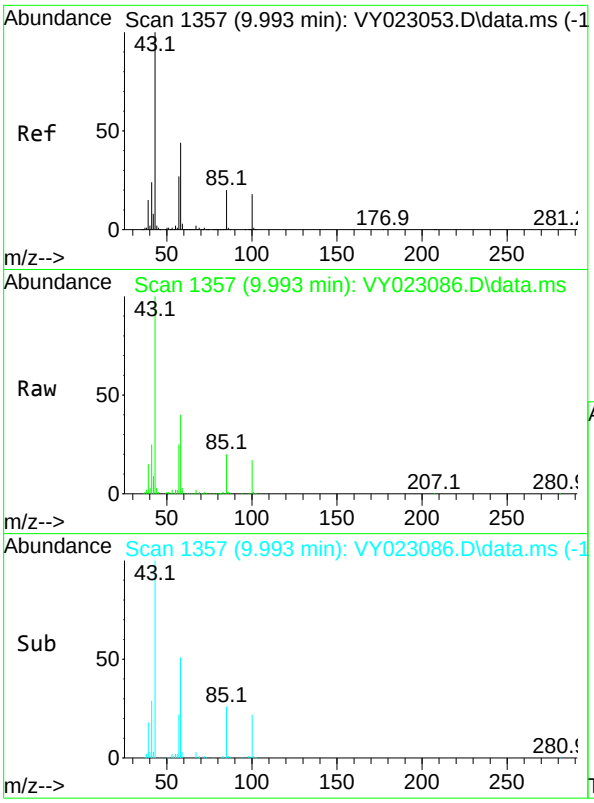




#50
Toluene-d8
Concen: 50.855 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 98 Resp: 873299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.5 | 52.3 | 78.5 |



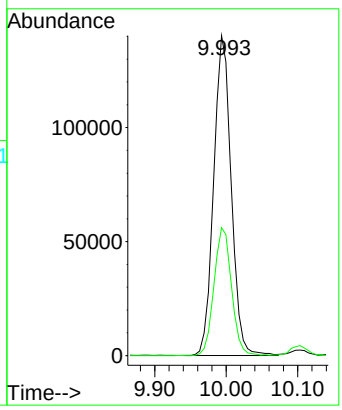


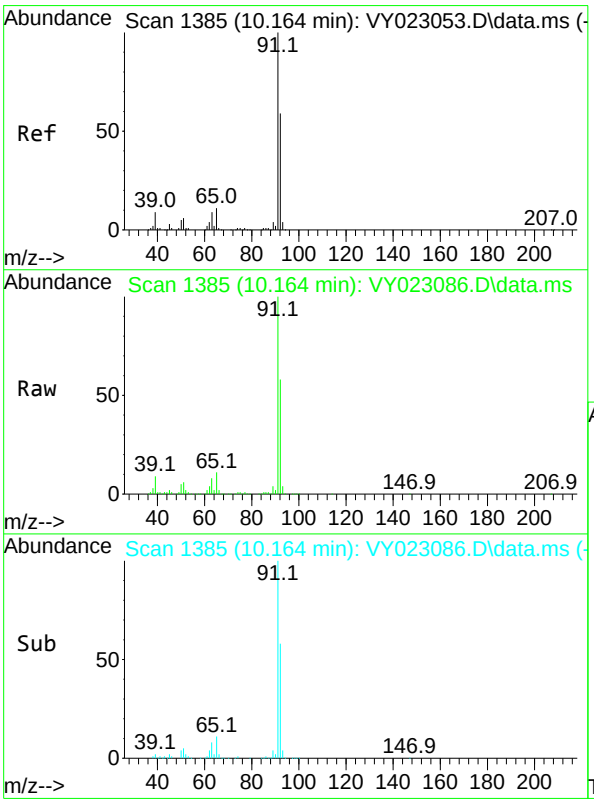

#51
4-Methyl-2-Pentanone
Concen: 83.495 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion: 43 Resp: 238881

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 40.1 | 33.5 | 50.3 |

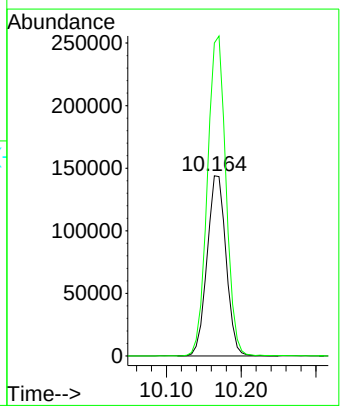


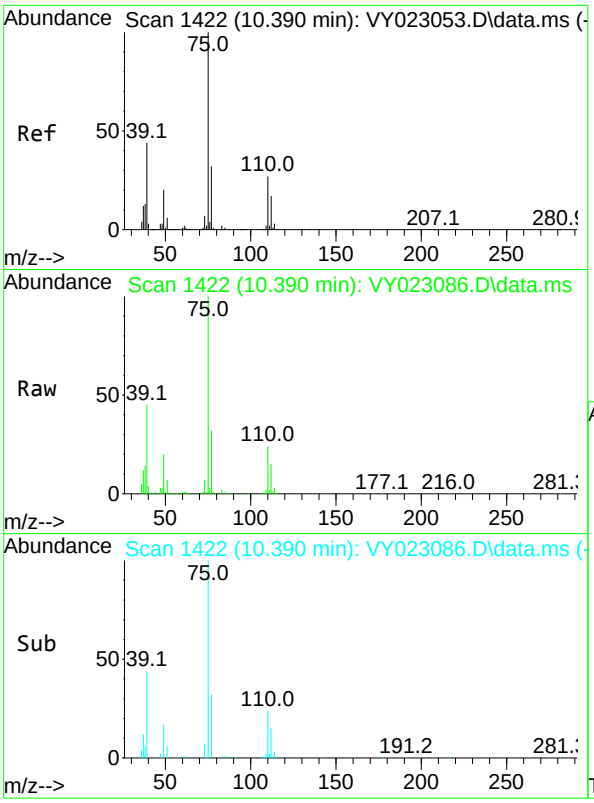




#52
Toluene
Concen: 19.780 ug/l
RT: 10.164 min Scan# 1385
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 92 Resp: 252944

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 174.7 | 136.4 | 204.6 |



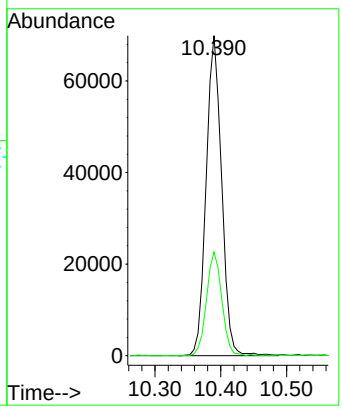


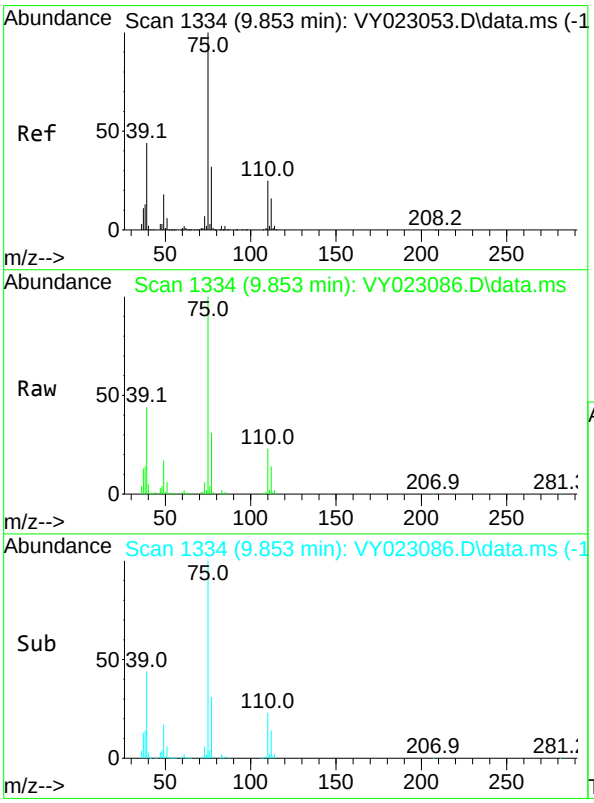

#53
t-1,3-Dichloropropene
Concen: 18.458 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion: 75 Resp: 114364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.3 | 25.7 | 38.5 |

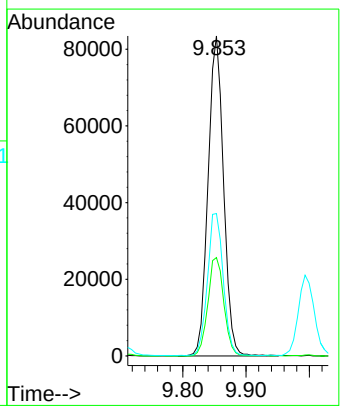


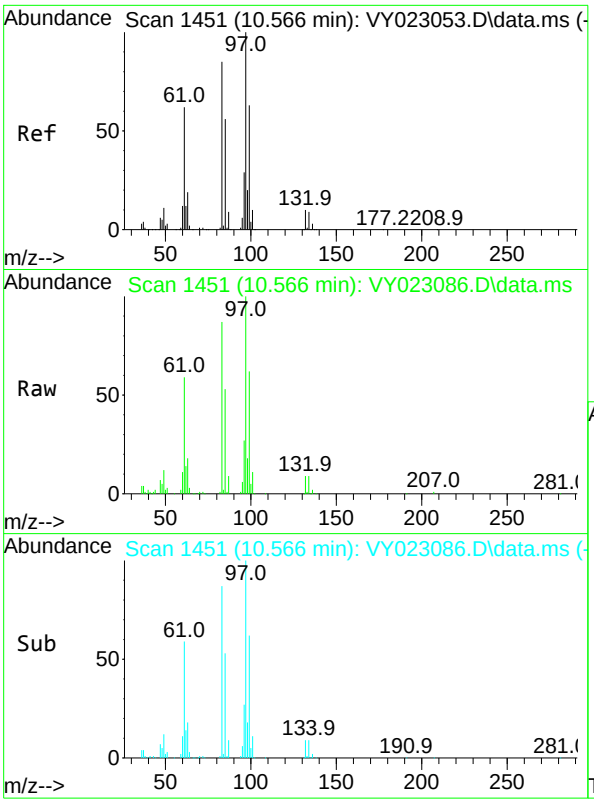




#54
cis-1,3-Dichloropropene
Concen: 19.379 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 75 Resp: 141980

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.7 | 25.4 | 38.0 |
| 39 | 44.3 | 35.6 | 53.4 |



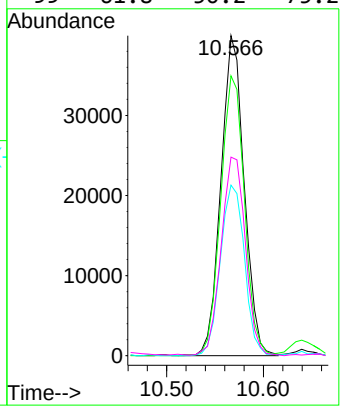


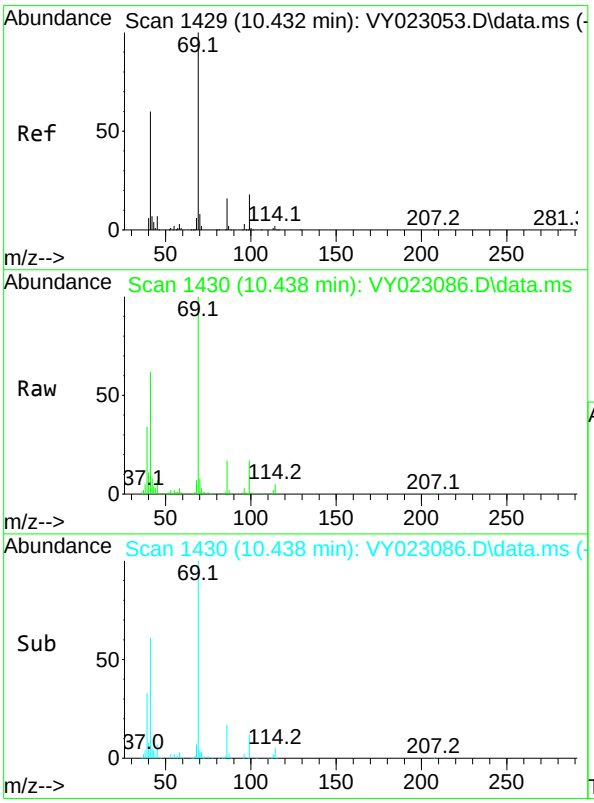

#55
1,1,2-Trichloroethane
Concen: 18.734 ug/l
RT: 10.566 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion: 97 Resp: 66658

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 87.4 | 67.7 | 101.5 |
| 85 | 53.3 | 44.5 | 66.7 |
| 99 | 61.8 | 50.2 | 75.2 |

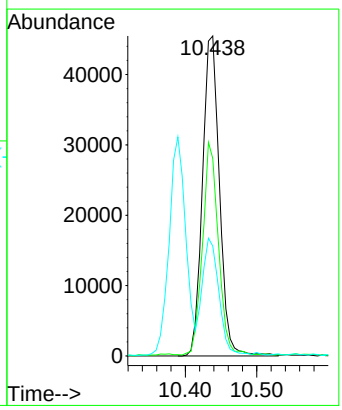


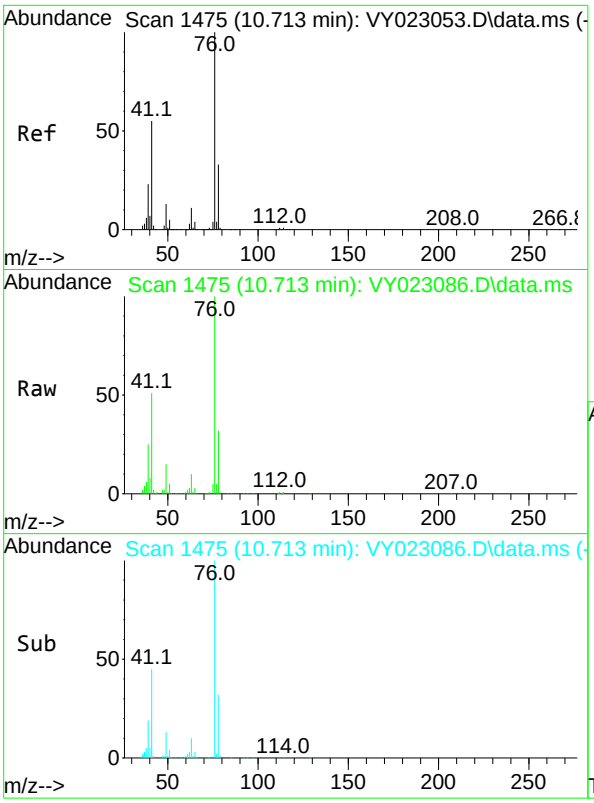




#56
Ethyl methacrylate
Concen: 16.500 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 69 Resp: 75122

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 61.9 | 48.6 | 72.8 |
| 39 | 35.1 | 27.0 | 40.4 |



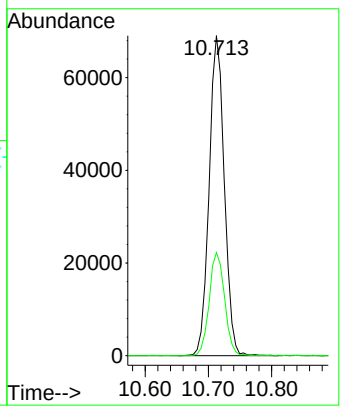


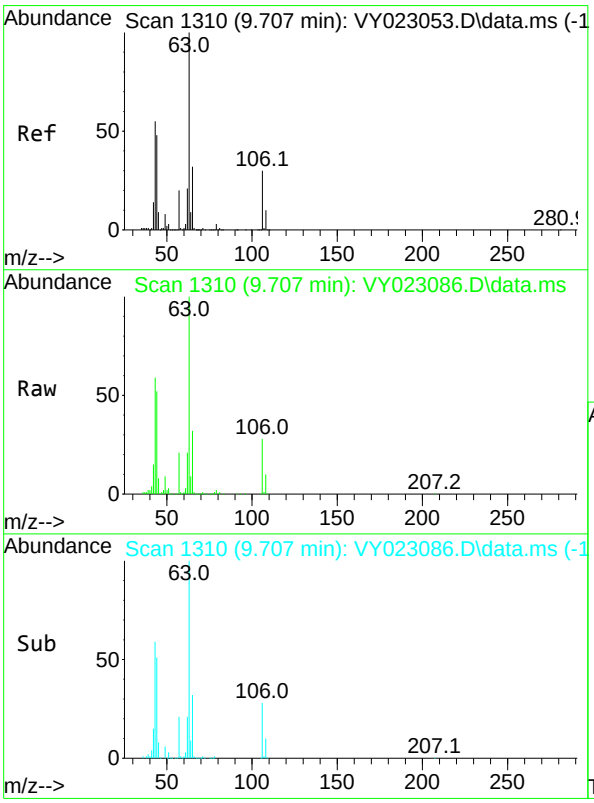

#57
1,3-Dichloropropane
Concen: 19.034 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion: 76 Resp: 114859

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.7 | 26.0 | 39.0 |

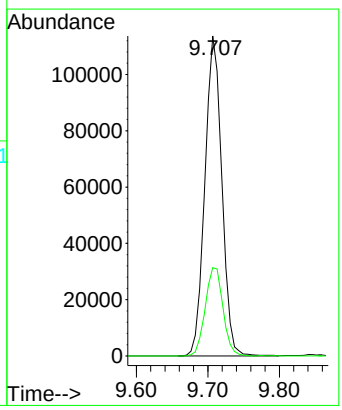


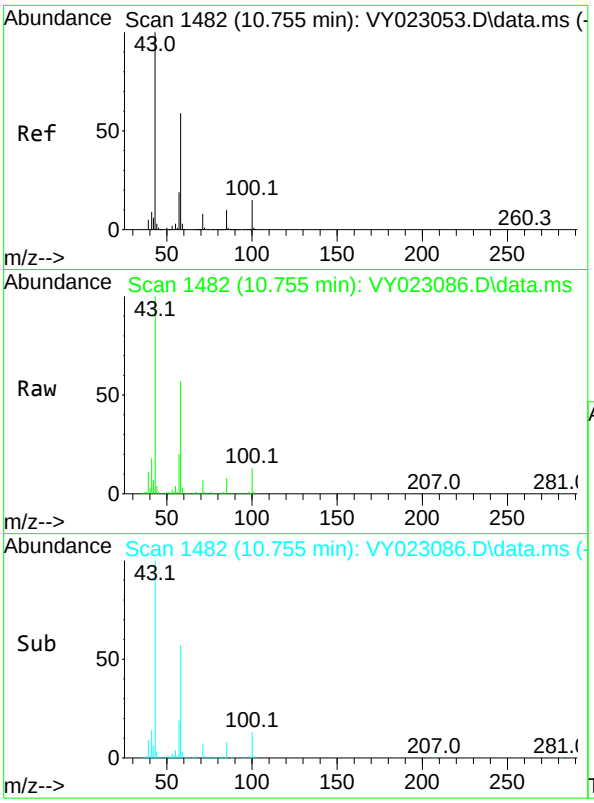




#58
2-Chloroethyl Vinyl ether
Concen: 87.167 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 63 Resp: 187201

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 28.9 | 23.2 | 34.8 |



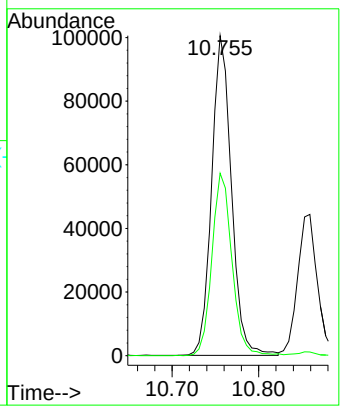


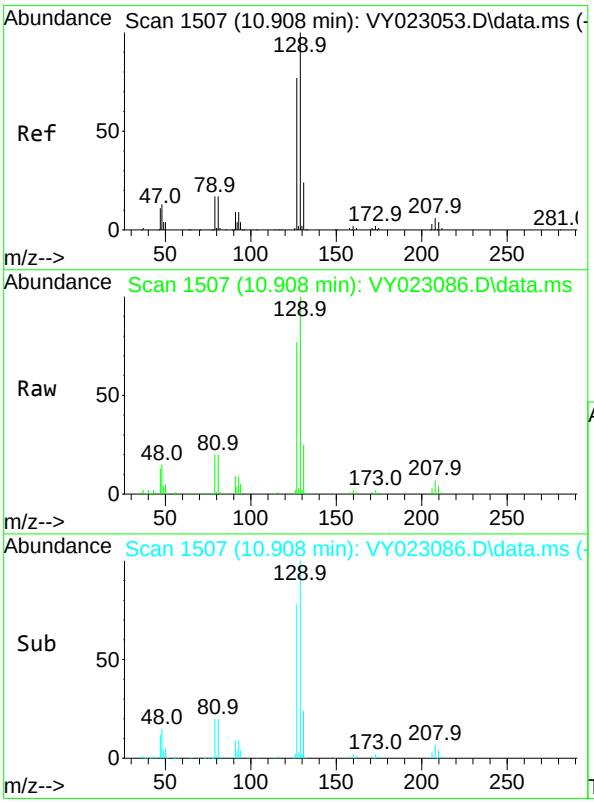

#59
2-Hexanone
Concen: 81.934 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion: 43 Resp: 159619

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 57.8 | 29.5 | 88.5 |

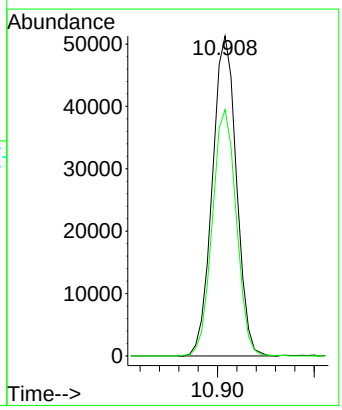


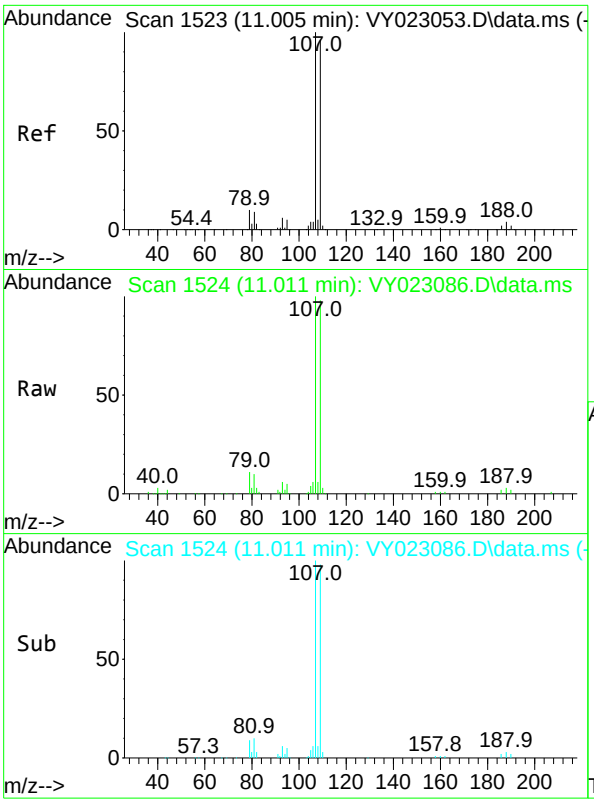




#60
Dibromochloromethane
Concen: 18.819 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:129 Resp: 88354

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 76.8 | 38.5 | 115.5 |



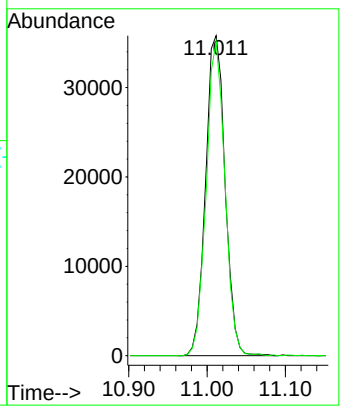


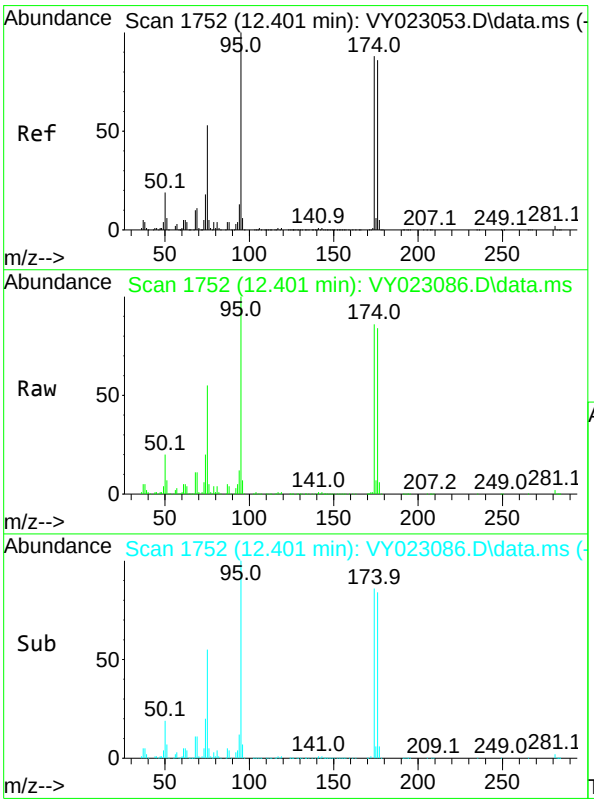

#61
1,2-Dibromoethane
Concen: 18.463 ug/l
RT: 11.011 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion:107 Resp: 61746

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.4 | 75.6 | 113.4 |

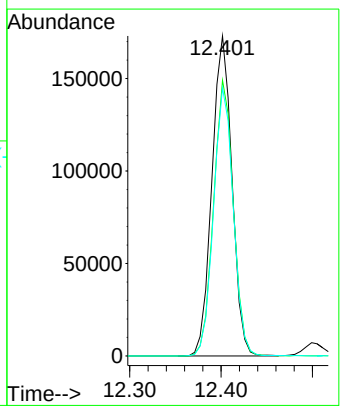


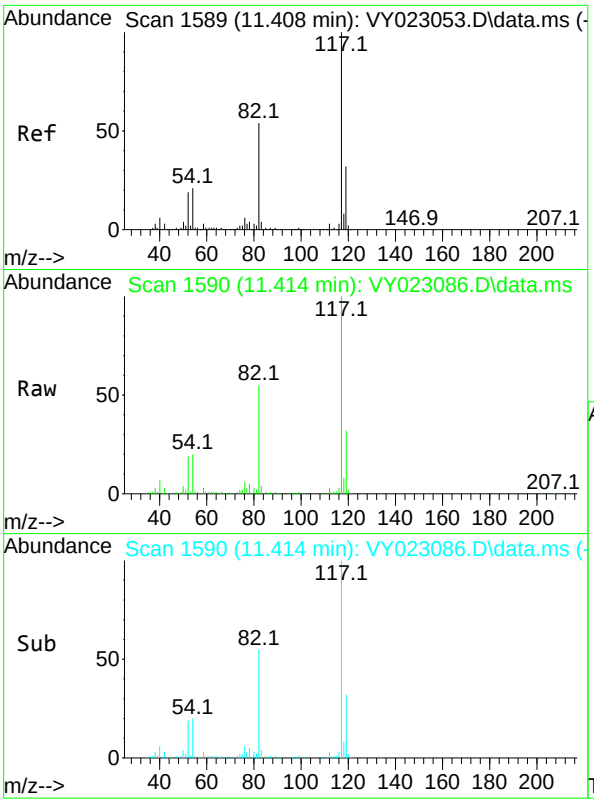




#62
4-Bromofluorobenzene
Concen: 47.657 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 95 Resp: 263190

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 84.7 | 0.0 | 171.6 |
| 176 | 82.8 | 0.0 | 167.6 |



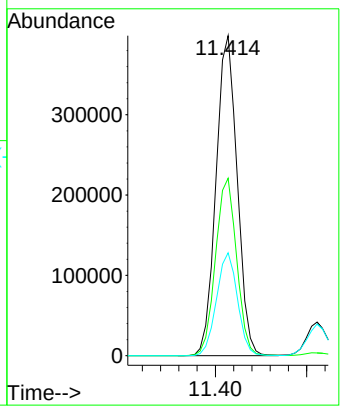


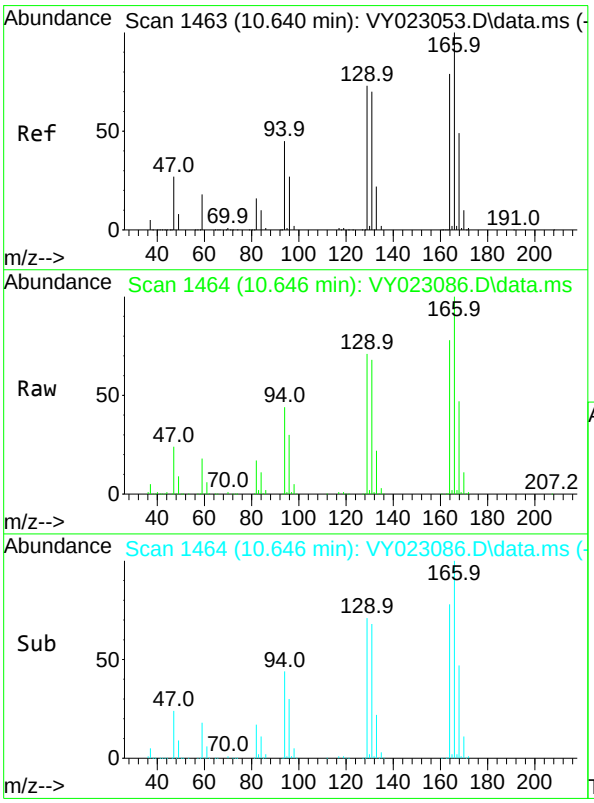

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion:117 Resp: 641778

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 55.5 | 43.4 | 65.0 |
| 119 | 32.2 | 25.6 | 38.4 |

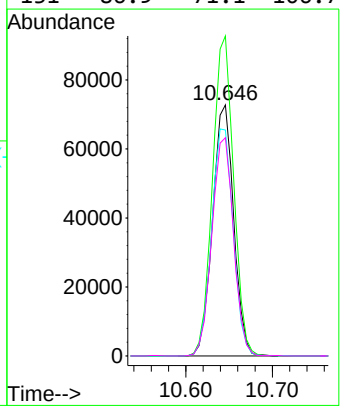


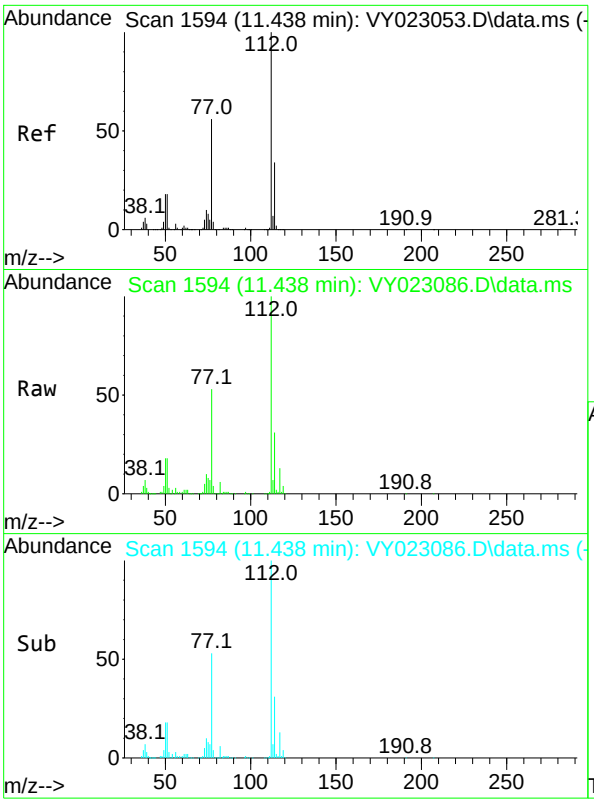




#64
Tetrachloroethene
Concen: 21.538 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:164 Resp: 123429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 127.4 | 101.1 | 151.7 |
| 129 | 90.0 | 74.0 | 111.0 |
| 131 | 86.9 | 71.1 | 106.7 |



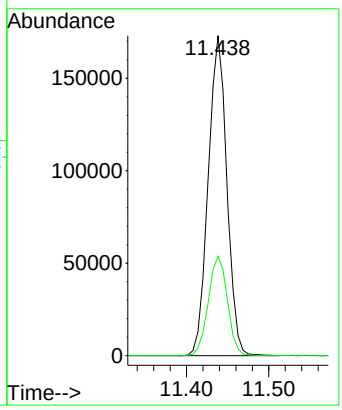


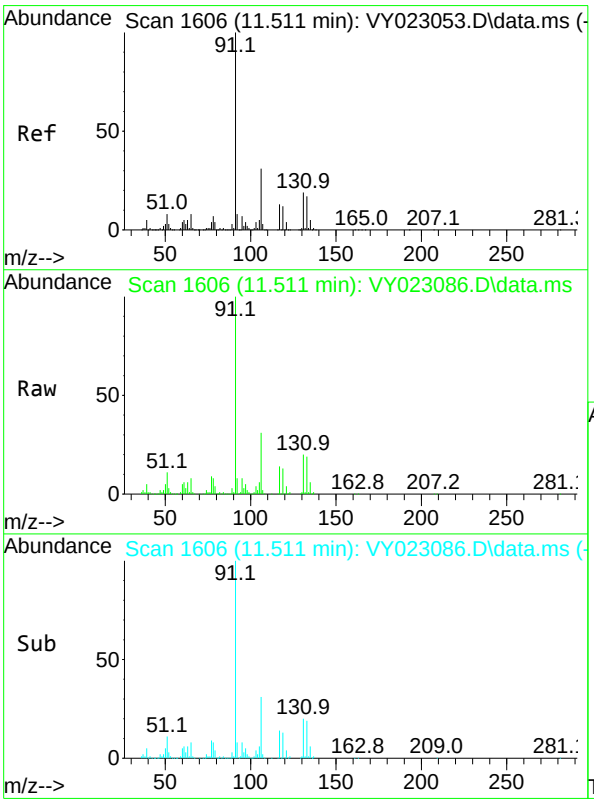

#65
Chlorobenzene
Concen: 19.716 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion:112 Resp: 272937

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.1 | 27.0 | 40.4 |

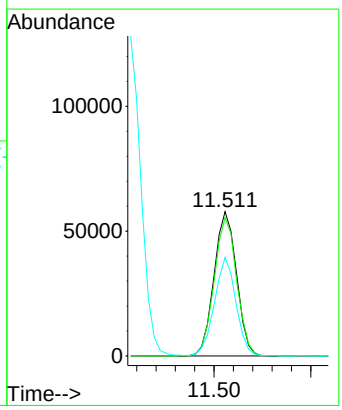


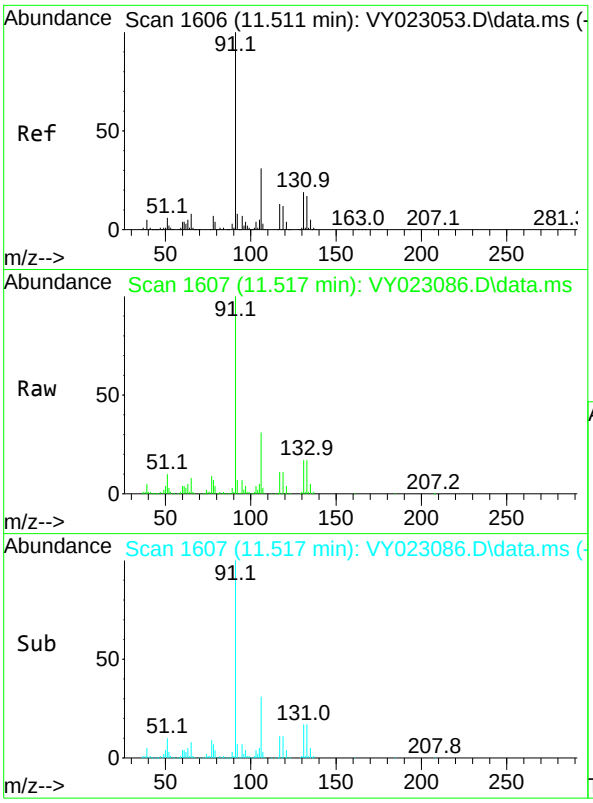




#66
1,1,1,2-Tetrachloroethane
Concen: 19.819 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:131 Resp: 93115

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 96.1 | 46.9 | 140.6 |
| 119 | 65.5 | 33.2 | 99.6 |



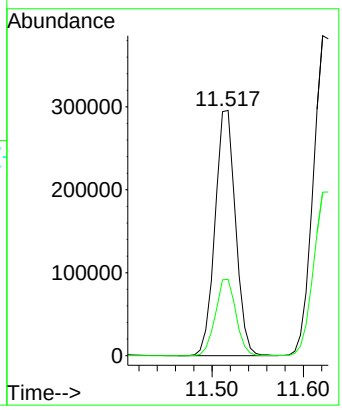


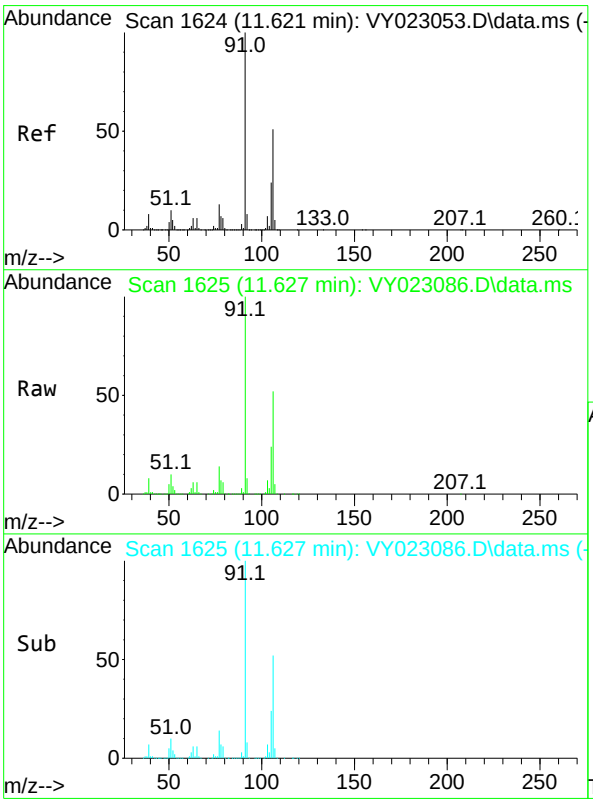

#67
Ethyl Benzene
Concen: 19.391 ug/l
RT: 11.517 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion: 91 Resp: 461952

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.1 | 25.0 | 37.4 |

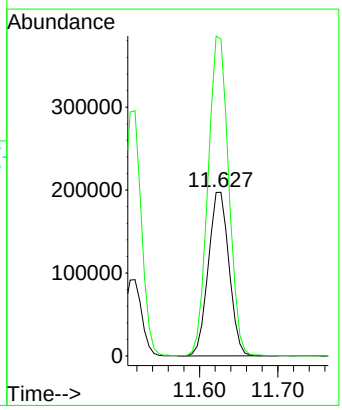


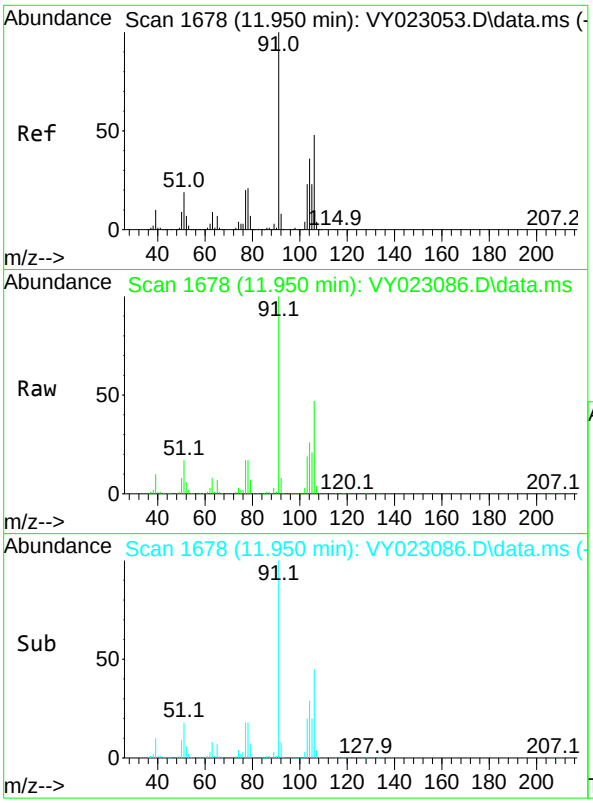




#68
m/p-Xylenes
Concen: 38.921 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:106 Resp: 362129

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 195.1 | 158.6 | 238.0 |



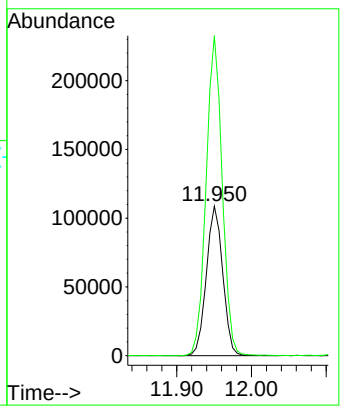


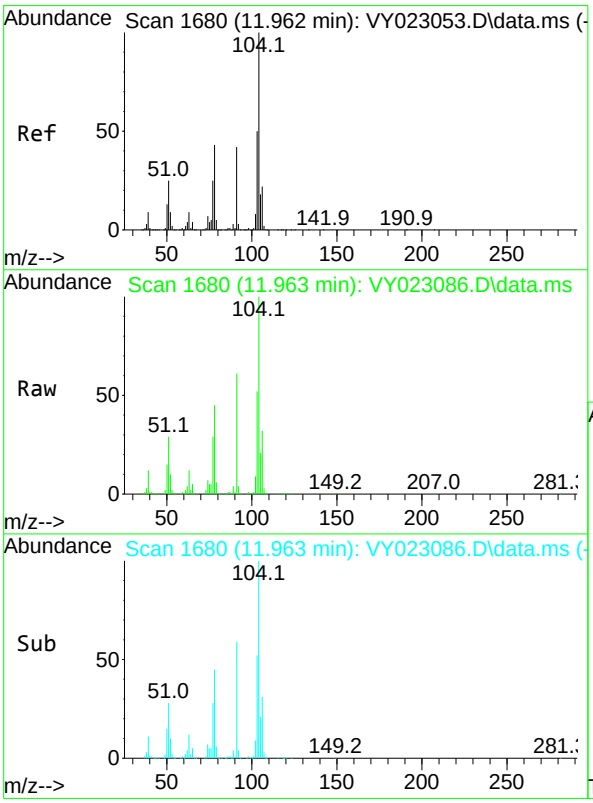

#69
o-Xylene
Concen: 18.990 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion:106 Resp: 165485

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 210.3 | 103.2 | 309.4 |

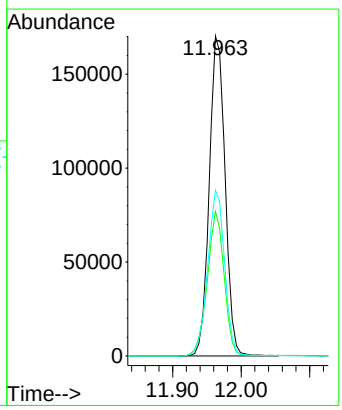


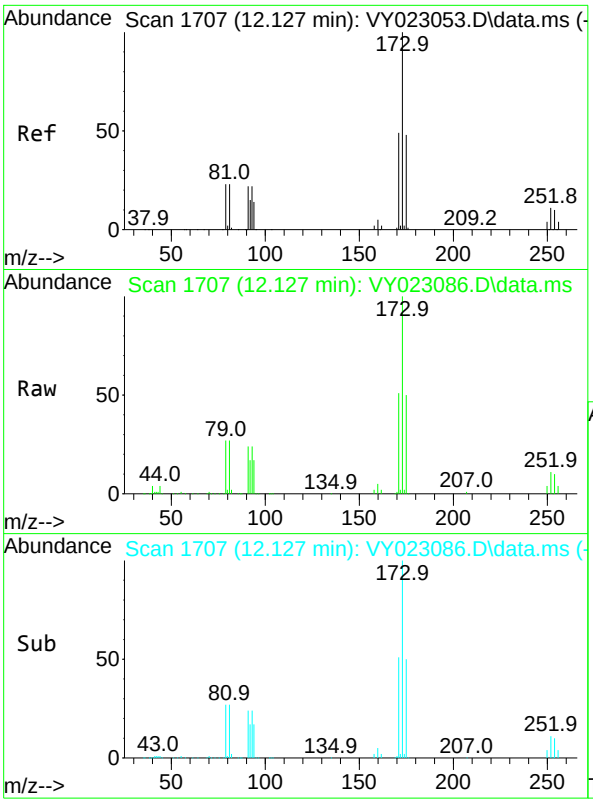




#70
Styrene
Concen: 19.209 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:104 Resp: 273749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 48.1 | 38.5 | 57.7 |
| 103 | 55.5 | 43.7 | 65.5 |



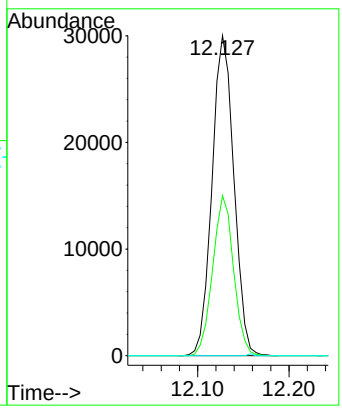


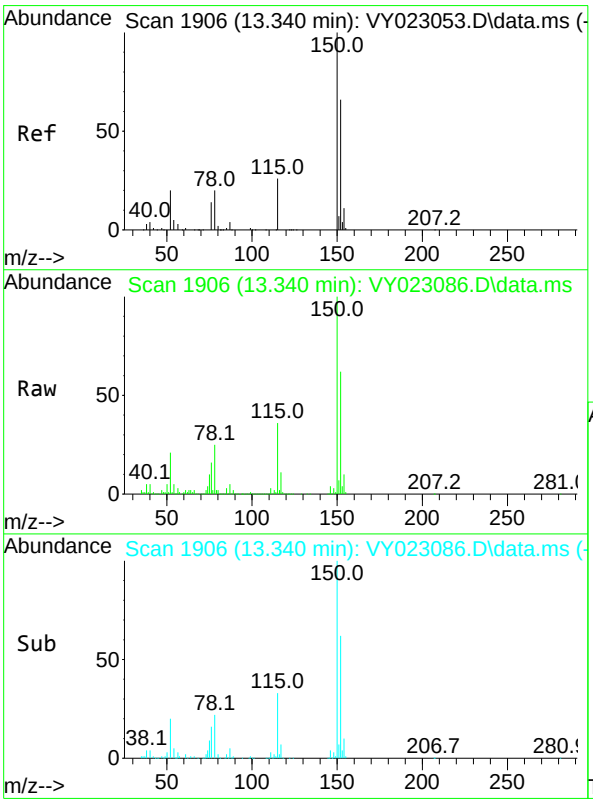

#71
Bromoform
Concen: 18.159 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion:173 Resp: 49863

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.7 | 23.9 | 71.7 |
| 254 | 0.0 | 0.1 | 0.1# |

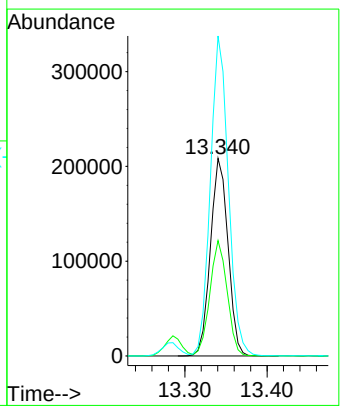


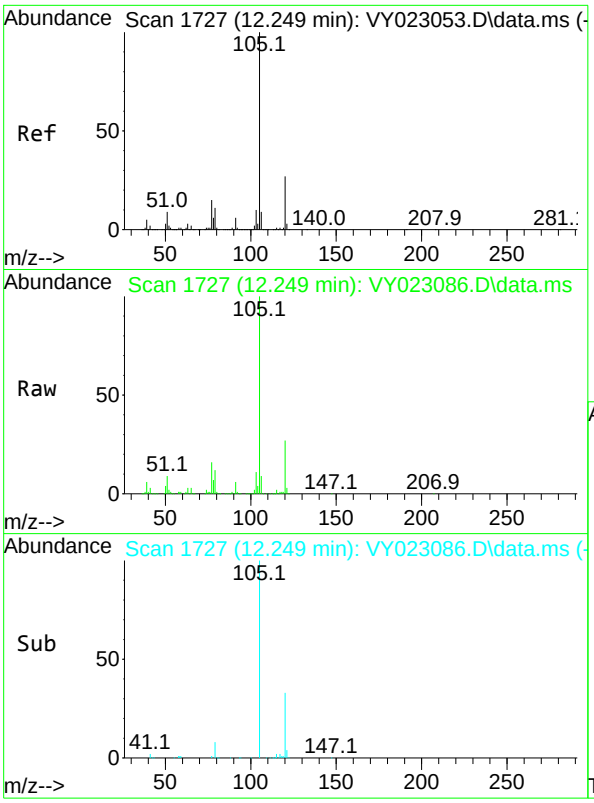




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:152 Resp: 309825

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.4 | 28.2 | 84.6 |
| 150 | 166.2 | 0.0 | 348.0 |



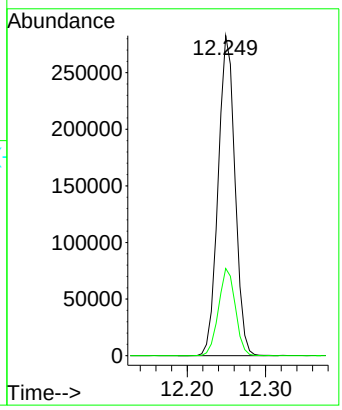


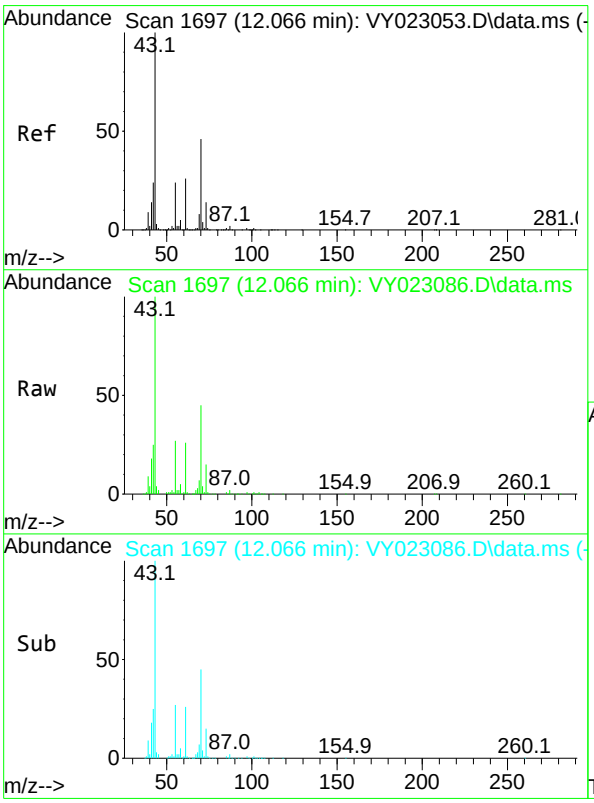

#73
Isopropylbenzene
Concen: 19.345 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion:105 Resp: 423027

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.1 | 13.4 | 40.2 |

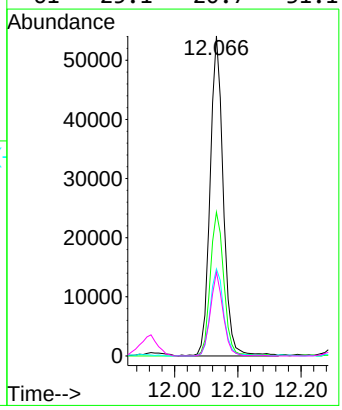


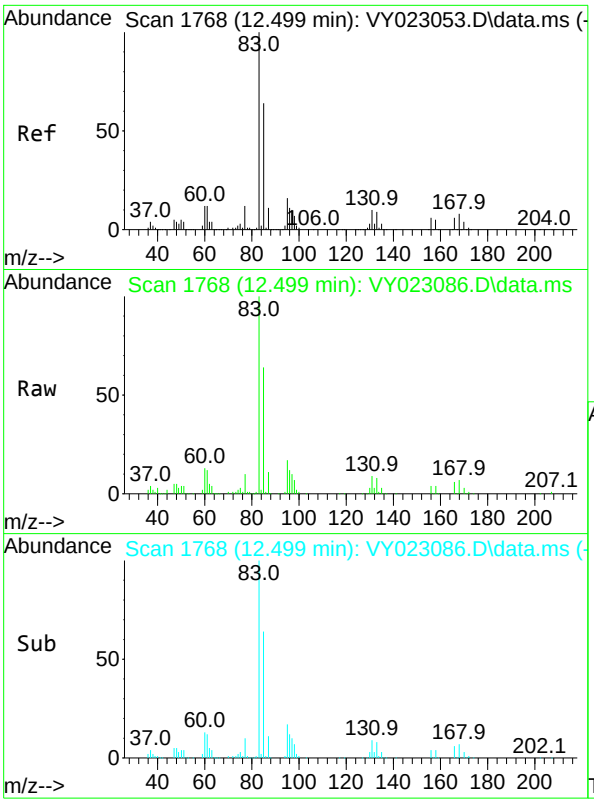




#74
N-amyl acetate
Concen: 16.952 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 43 Resp: 78613

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 46.5 | 37.5 | 56.3 |
| 55 | 28.0 | 20.7 | 31.1 |
| 61 | 25.1 | 20.7 | 31.1 |



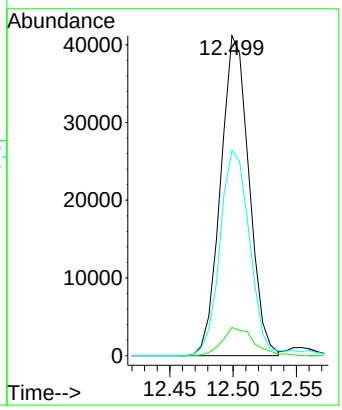


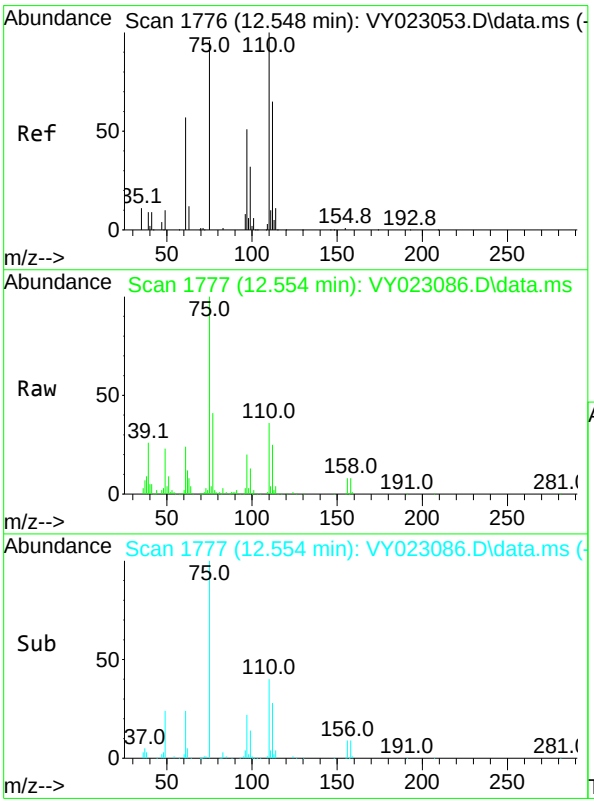

#75
1,1,2,2-Tetrachloroethane
Concen: 17.181 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion: 83 Resp: 64150

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.8 | 5.1 | 15.3 |
| 85 | 68.5 | 31.8 | 95.3 |

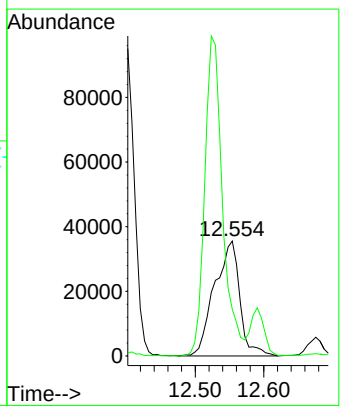


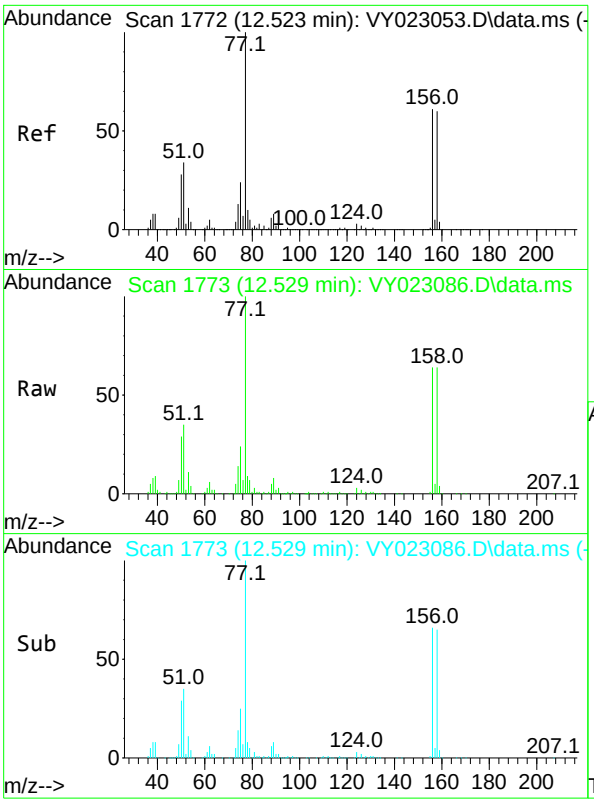




#76
1,2,3-Trichloropropane
Concen: 30.574 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 75 Resp: 91421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |



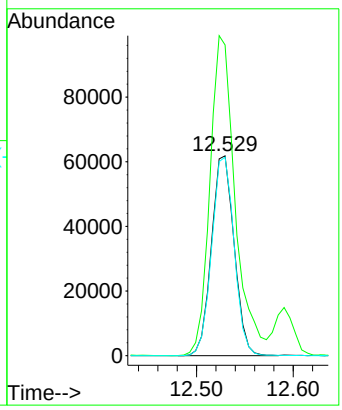


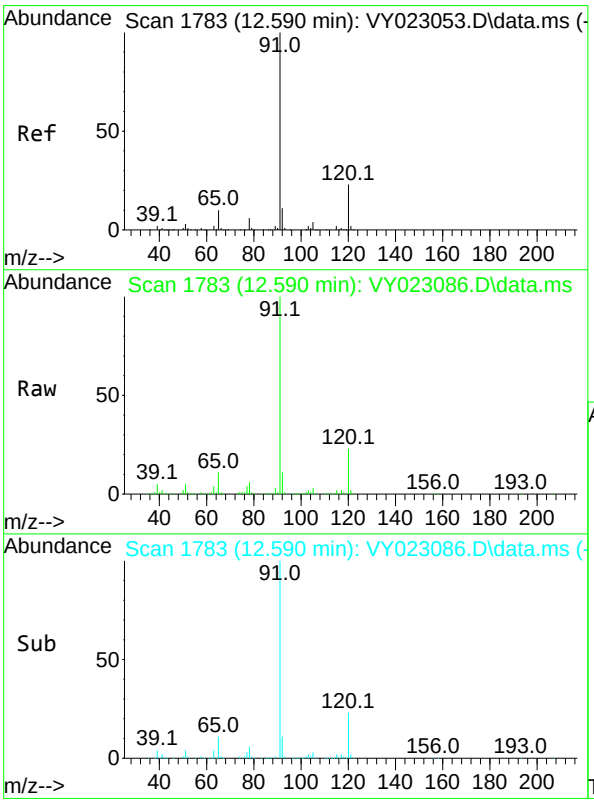

#77
Bromobenzene
Concen: 19.332 ug/l
RT: 12.529 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion:156 Resp: 100851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 178.0 | 88.1 | 264.4 |
| 158 | 98.1 | 48.0 | 144.0 |

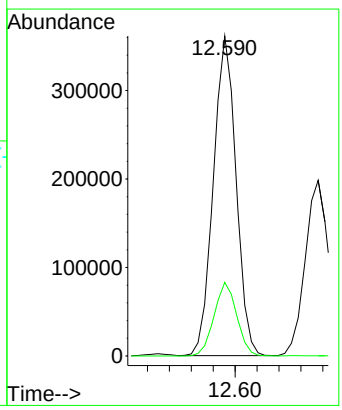


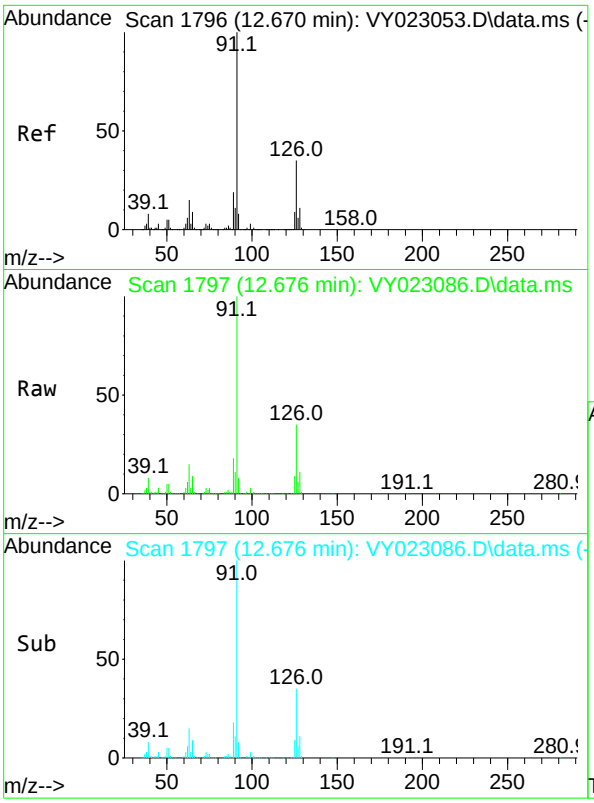




#78
n-propylbenzene
Concen: 20.001 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 91 Resp: 520711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.9 | 11.5 | 34.5 |



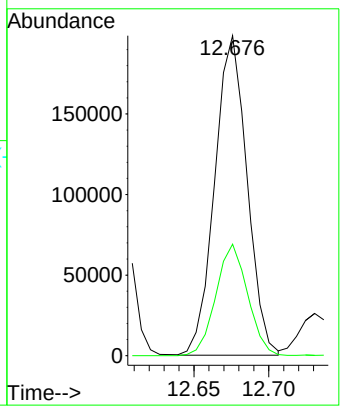


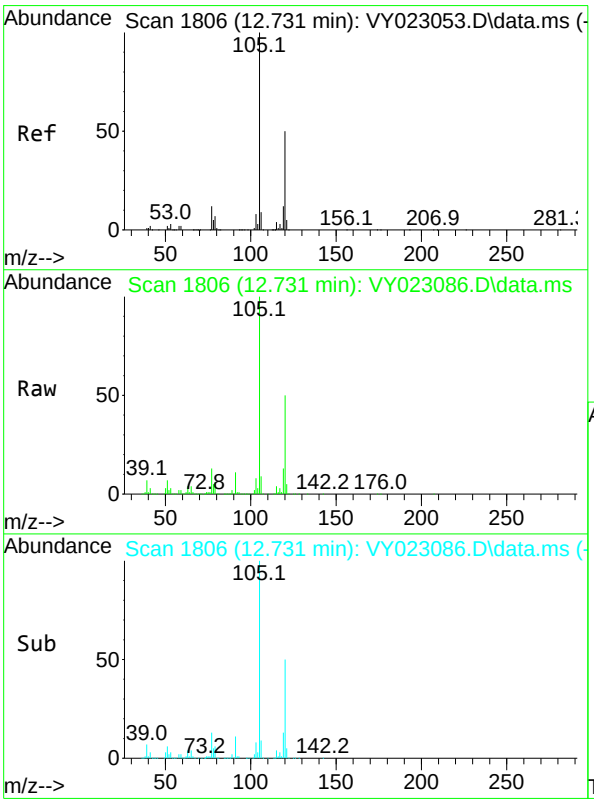

#79
2-Chlorotoluene
Concen: 19.962 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion: 91 Resp: 297769

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.3 | 17.4 | 52.3 |

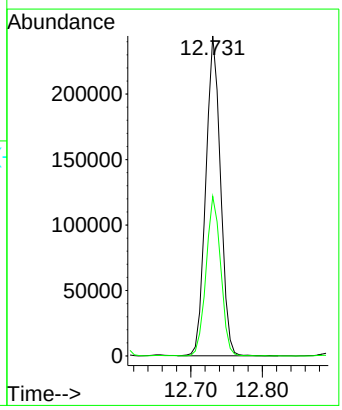


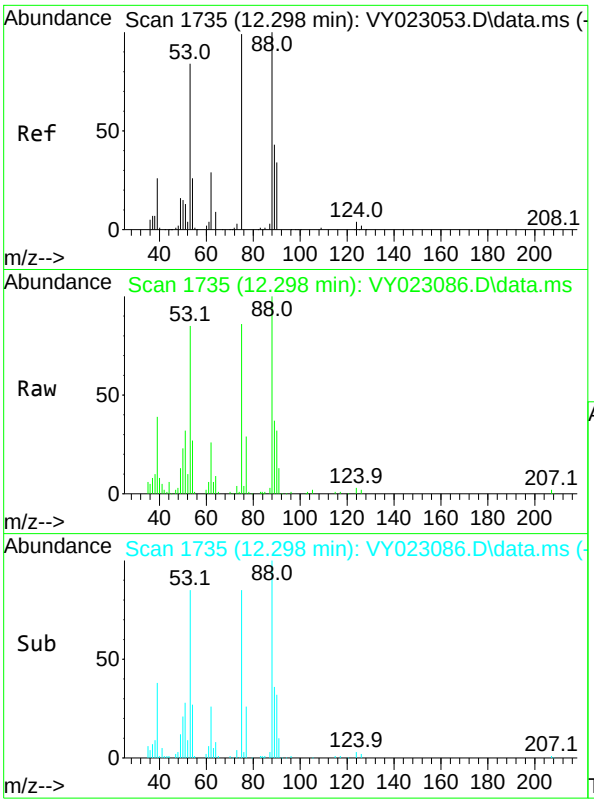




#80
1,3,5-Trimethylbenzene
Concen: 19.731 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:105 Resp: 348710

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.6 | 24.8 | 74.4 |



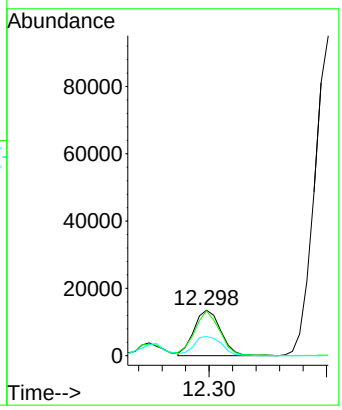


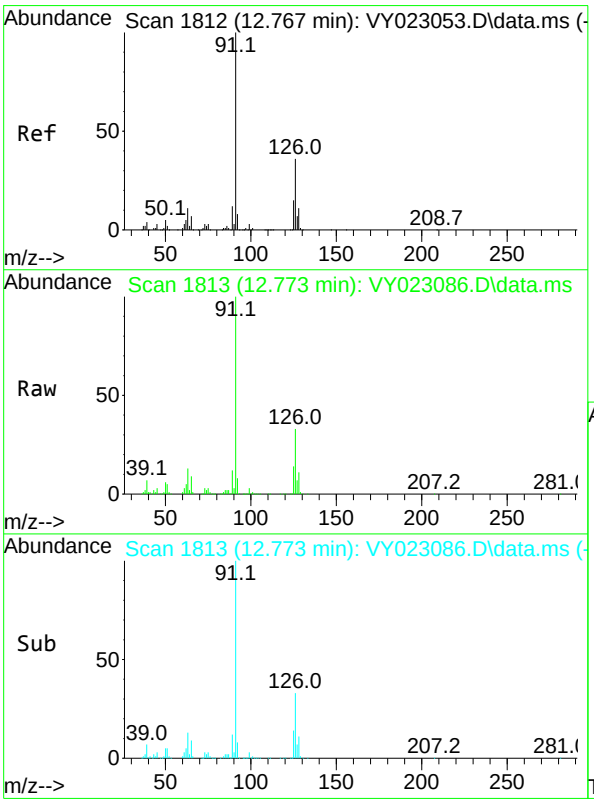

#81
trans-1,4-Dichloro-2-butene
Concen: 17.398 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion: 75 Resp: 21491

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 93.8 | 70.8 | 106.2 |
| 89 | 43.7 | 38.1 | 57.1 |

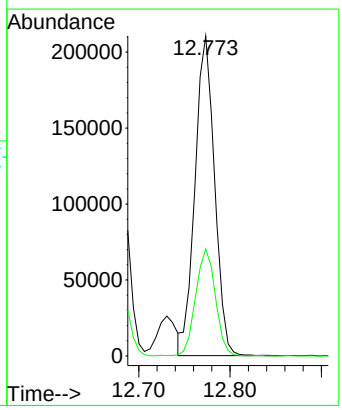


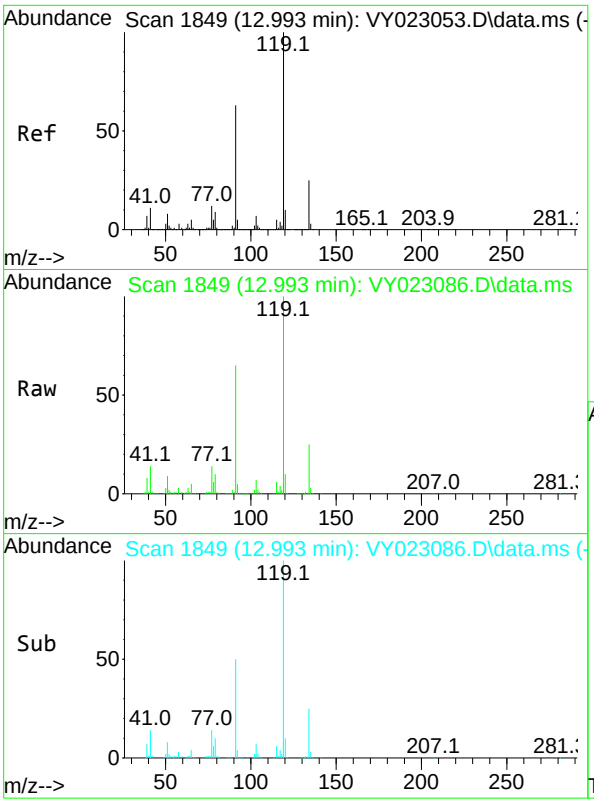




#82
4-Chlorotoluene
Concen: 20.205 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 91 Resp: 312655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.7 | 17.3 | 52.0 |



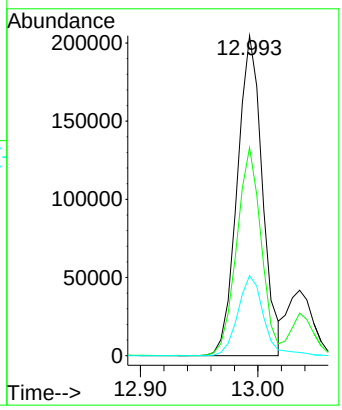


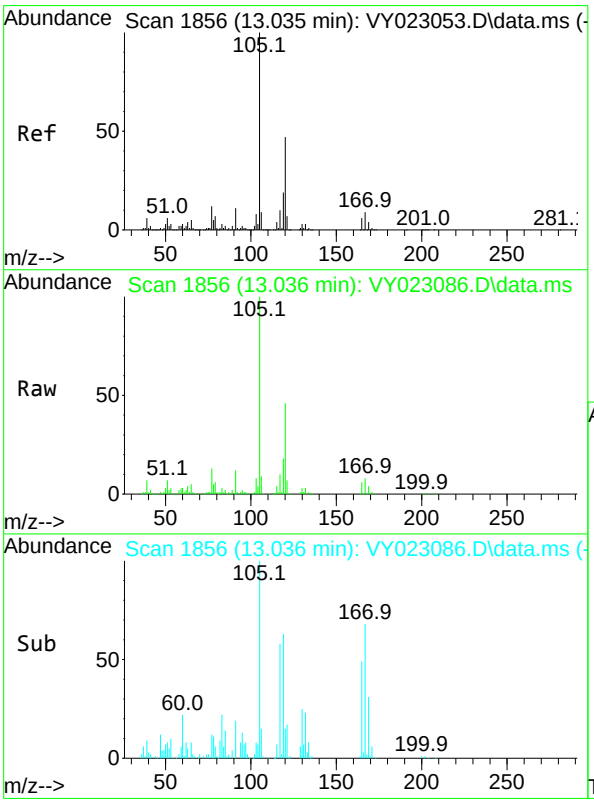

#83
tert-Butylbenzene
Concen: 18.997 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion:119 Resp: 303222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 63.5 | 31.6 | 94.8 |
| 134 | 25.8 | 12.9 | 38.7 |

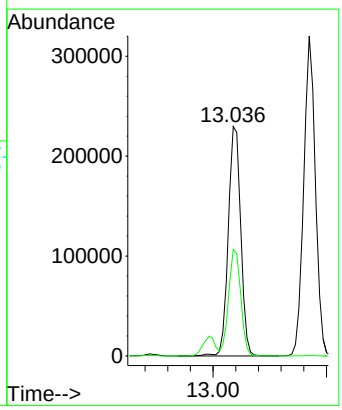


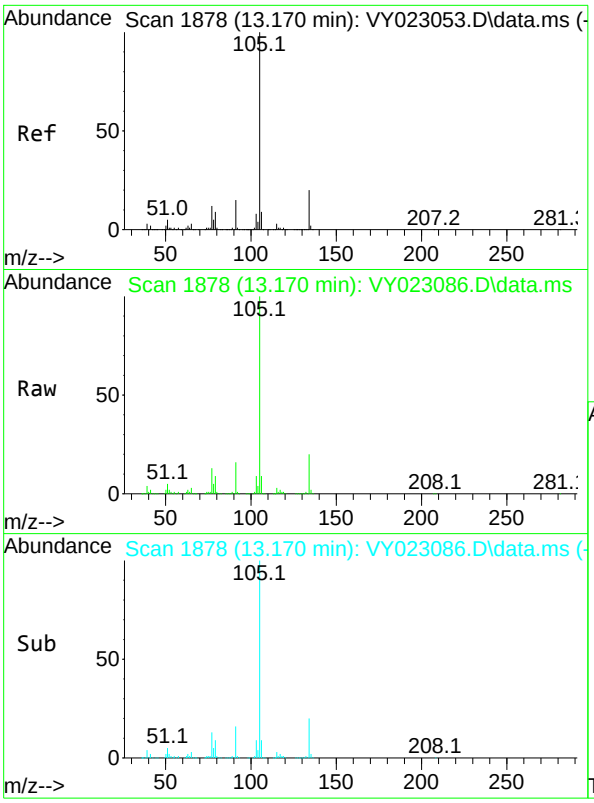




#84
1,2,4-Trimethylbenzene
Concen: 19.952 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:105 Resp: 351003

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.2 | 23.0 | 69.0 |



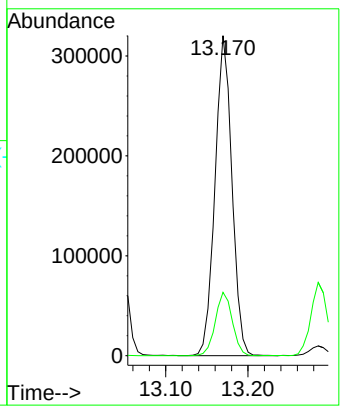


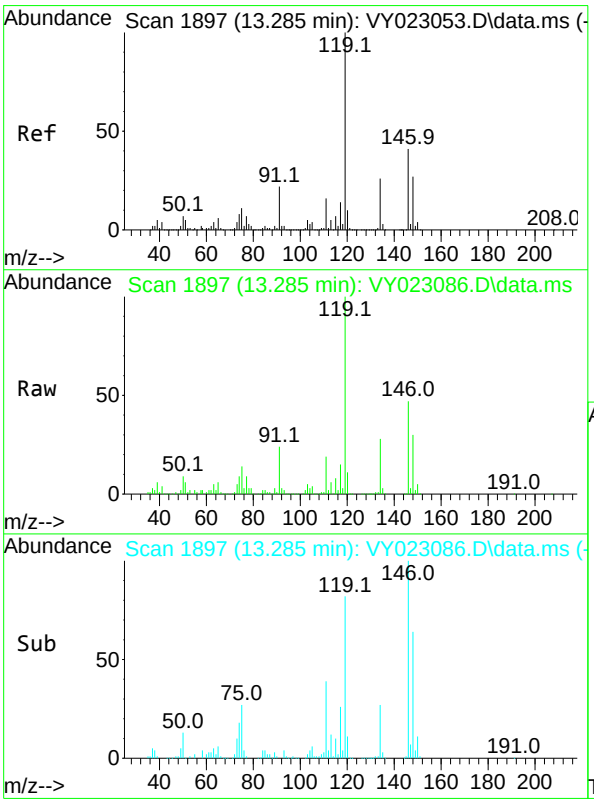

#85
sec-Butylbenzene
Concen: 19.534 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion:105 Resp: 458024

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.9 | 10.2 | 30.4 |

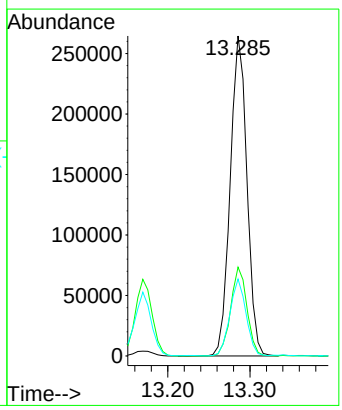


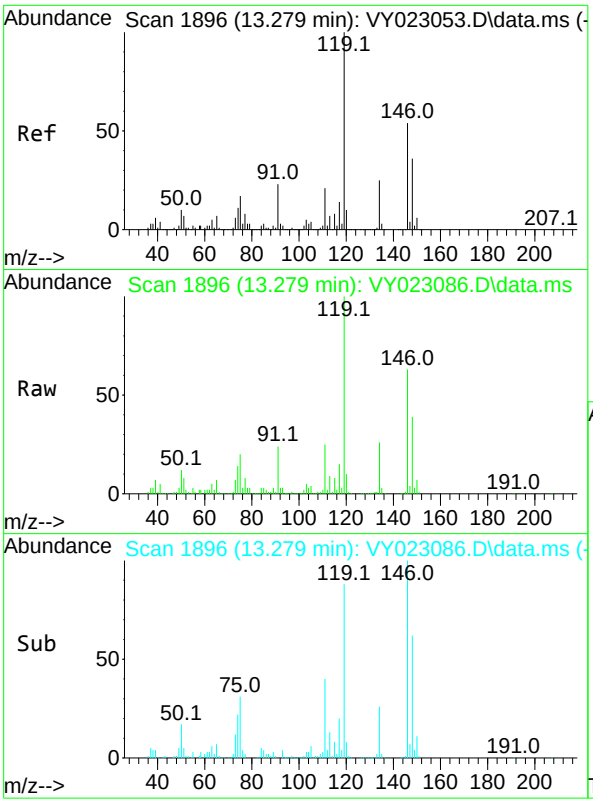




#86
p-Isopropyltoluene
Concen: 19.240 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:119 Resp: 374466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.9 | 13.2 | 39.6 |
| 91 | 23.1 | 11.3 | 33.8 |



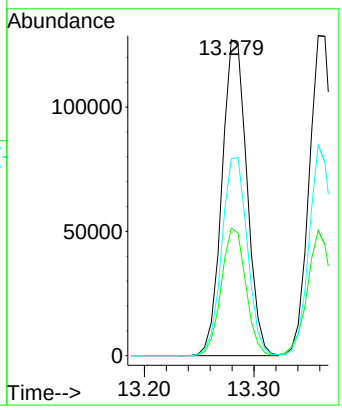


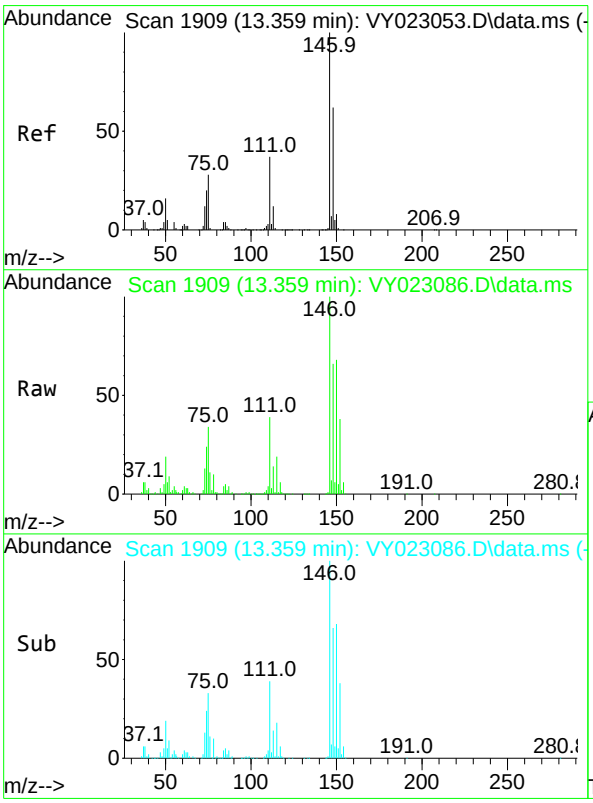

#87
1,3-Dichlorobenzene
Concen: 19.525 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion:146 Resp: 200869

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.8 | 19.6 | 58.7 |
| 148 | 64.2 | 32.5 | 97.5 |

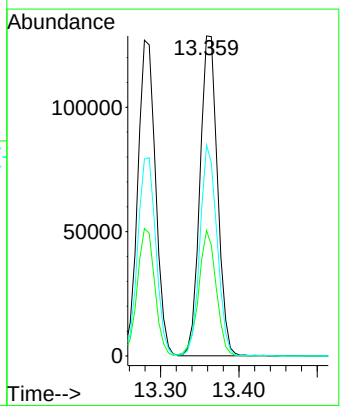


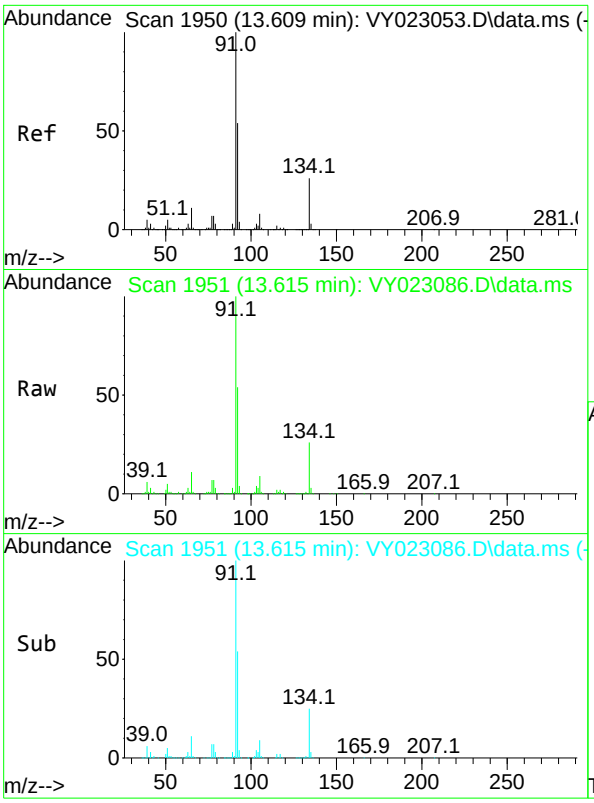




#88
1,4-Dichlorobenzene
Concen: 19.626 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:146 Resp: 200293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.2 | 19.1 | 57.1 |
| 148 | 64.3 | 31.6 | 94.7 |



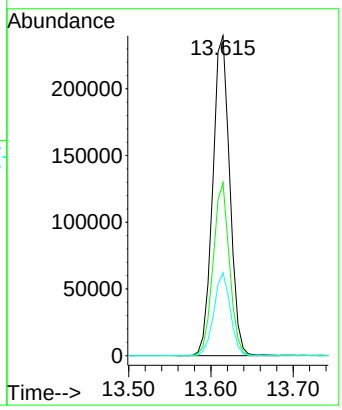


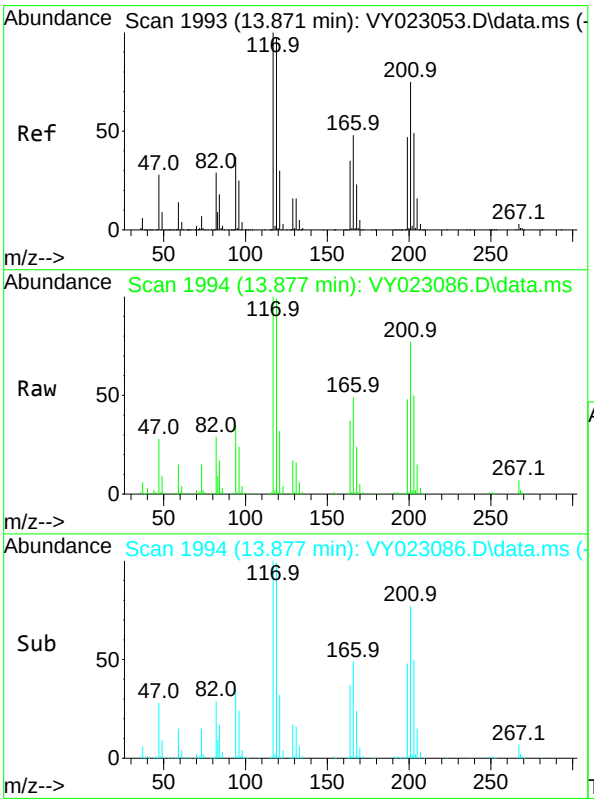

#89
n-Butylbenzene
Concen: 19.289 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion: 91 Resp: 344791

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.1 | 26.9 | 80.7 |
| 134 | 25.1 | 13.2 | 39.5 |

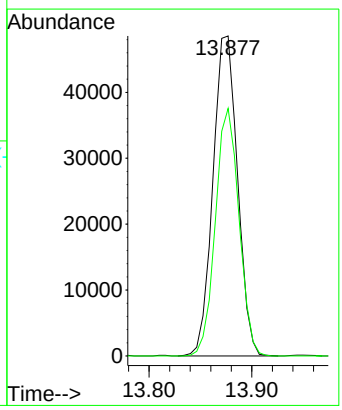


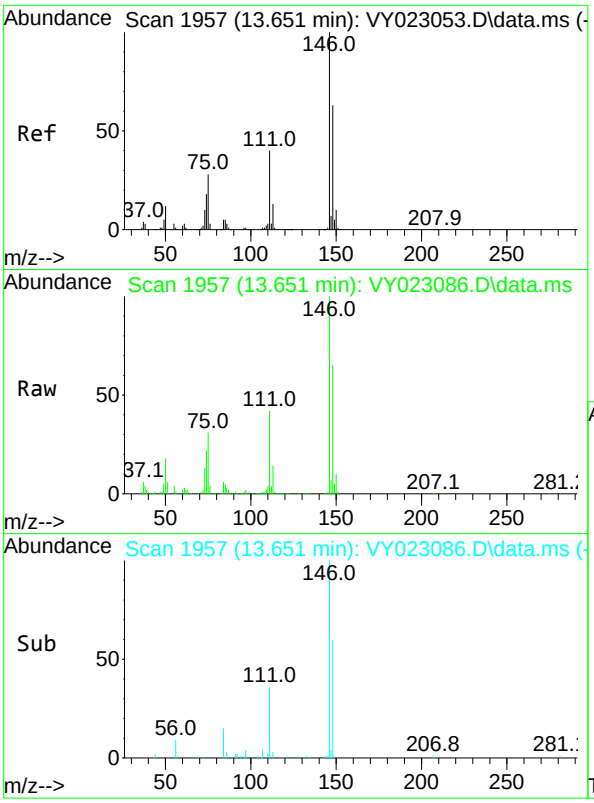




#90
Hexachloroethane
Concen: 20.252 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:117 Resp: 80689

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 74.1 | 38.4 | 115.1 |



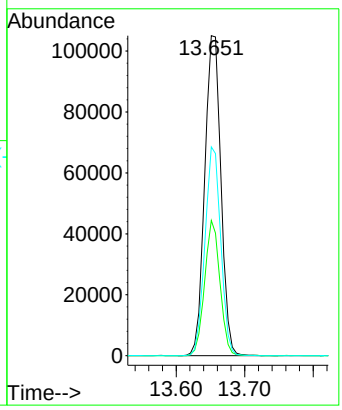


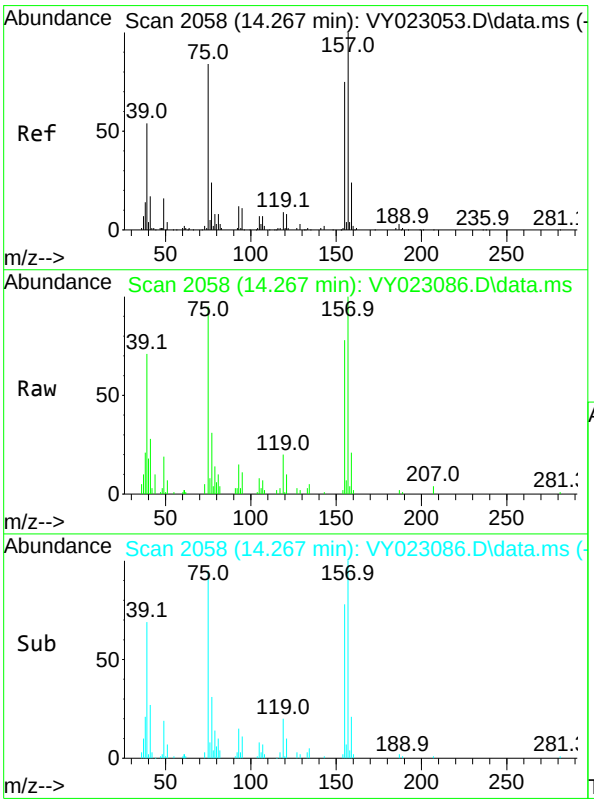

#91
1,2-Dichlorobenzene
Concen: 19.158 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion:146 Resp: 172852

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.0 | 20.3 | 60.8 |
| 148 | 63.6 | 32.2 | 96.6 |

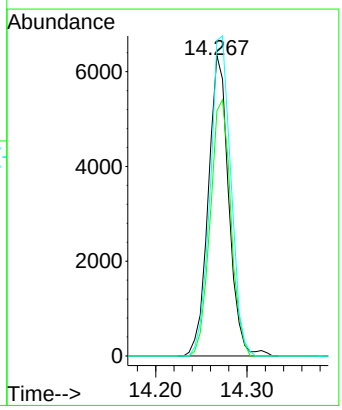


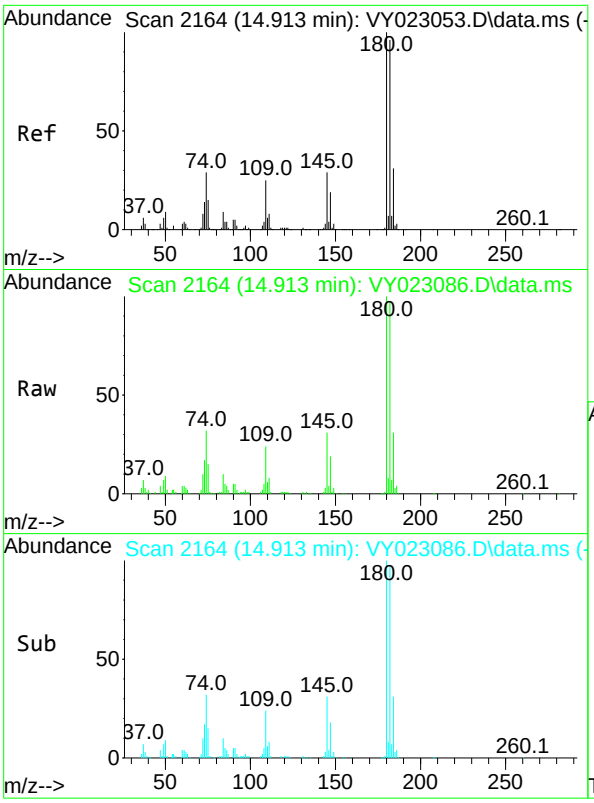




#92
1,2-Dibromo-3-Chloropropane
Concen: 16.982 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion: 75 Resp: 9872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 85.7 | 43.9 | 131.6 |
| 157 | 107.5 | 57.2 | 171.6 |



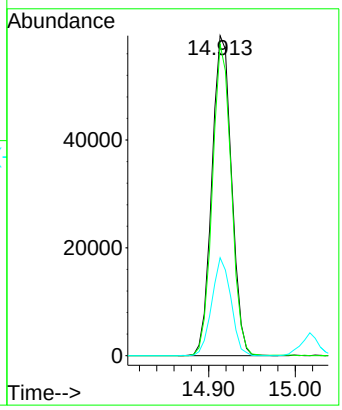


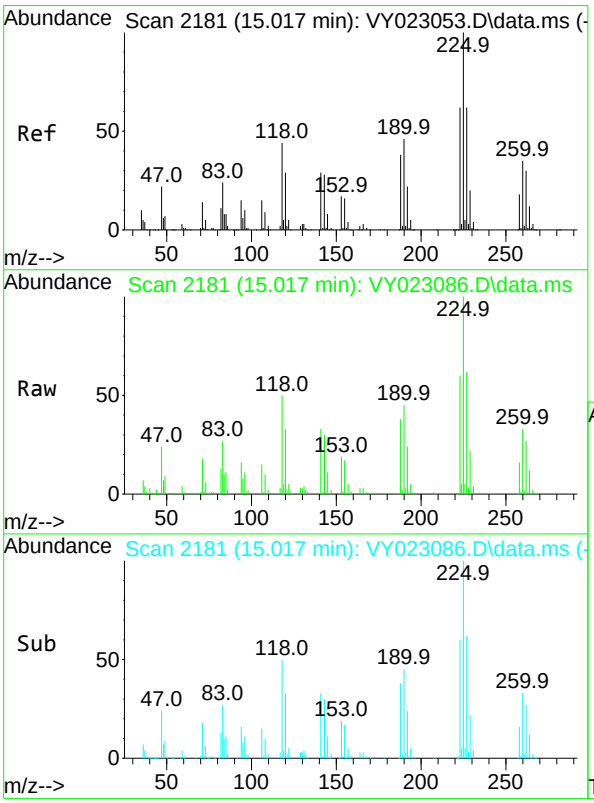

#93
1,2,4-Trichlorobenzene
Concen: 17.602 ug/l
RT: 14.913 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion:180 Resp: 93915

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.2 | 46.8 | 140.4 |
| 145 | 29.7 | 14.4 | 43.4 |

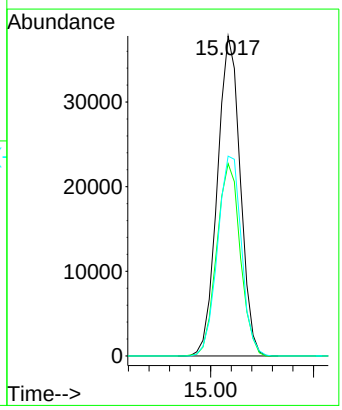


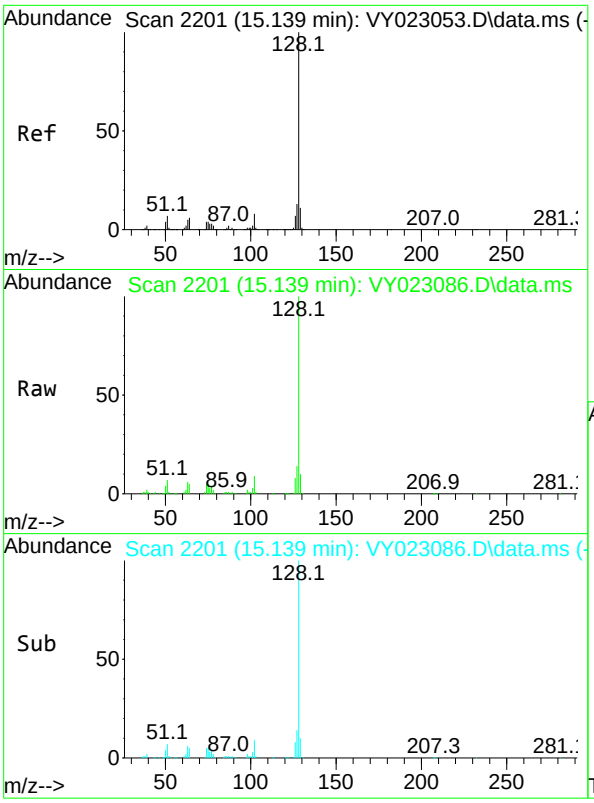




#94
Hexachlorobutadiene
Concen: 18.595 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:225 Resp: 58299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 61.8 | 31.3 | 93.8 |
| 227 | 65.2 | 31.5 | 94.5 |



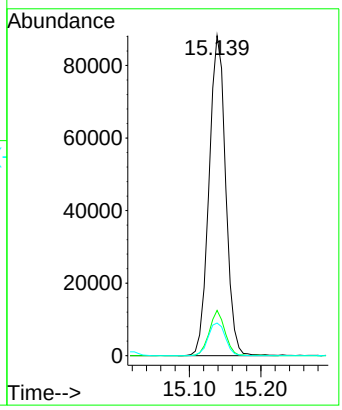


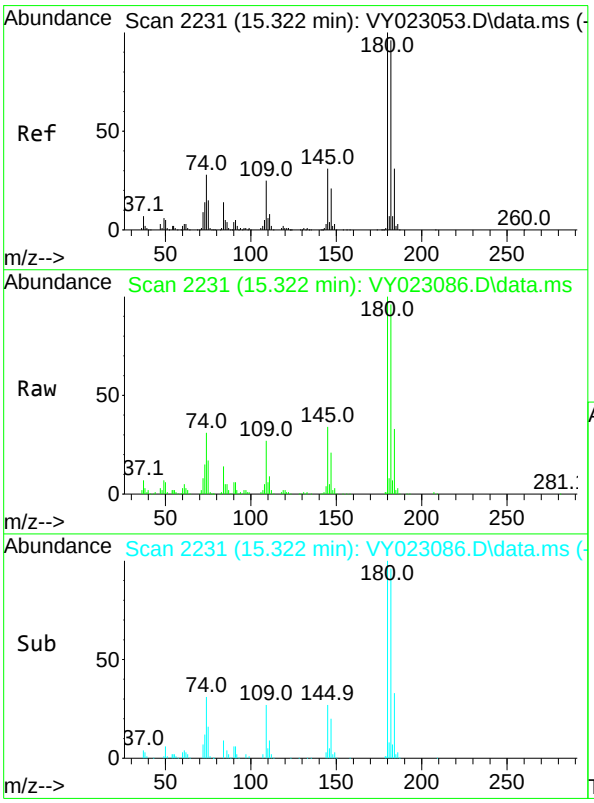

#95
Naphthalene
Concen: 15.638 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0814SBS01

Tgt Ion:128 Resp: 142271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.3 | 10.4 | 15.6 |
| 129 | 10.7 | 9.0 | 13.4 |

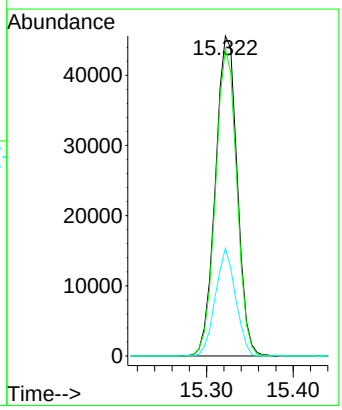



#96
1,2,3-Trichlorobenzene
Concen: 17.308 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023086.D
Acq: 14 Aug 2025 11:22

Tgt Ion:180 Resp: 79576

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.6 | 47.9 | 143.7 |
| 145 | 31.2 | 15.9 | 47.7 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023109.D
Acq On : 14 Aug 2025 20:38
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 27 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Quant Time: Aug 18 01:32:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 416366 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 692312 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 629047 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.340 | 152 | 327747 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 213894 | 53.901 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 107.800% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 209862 | 50.660 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 101.320% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 824760 | 50.964 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 101.920% | | | |
| 62) 4-Bromofluorobenzene | 12.402 | 95 | 268864 | 51.660 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 103.320% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 127230 | 37.436 | ug/l | 98 |
| 3) Chloromethane | 2.068 | 50 | 278602 | 50.612 | ug/l | 100 |
| 4) Vinyl Chloride | 2.202 | 62 | 362671 | 53.299 | ug/l | 100 |
| 5) Bromomethane | 2.592 | 94 | 284864 | 56.056 | ug/l | 100 |
| 6) Chloroethane | 2.733 | 64 | 256493 | 56.698 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.050 | 101 | 393227 | 47.526 | ug/l | 98 |
| 8) Diethyl Ether | 3.458 | 74 | 102502 | 46.826 | ug/l | 98 |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 185323 | 45.401 | ug/l | 99 |
| 10) Methyl Iodide | 4.001 | 142 | 230343 | 52.294 | ug/l | 98 |
| 11) Tert butyl alcohol | 4.866 | 59 | 59656 | 219.404 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 186960 | 46.597 | ug/l | 97 |
| 13) Acrolein | 3.653 | 56 | 59794 | 150.160 | ug/l | 99 |
| 14) Allyl chloride | 4.385 | 41 | 270891 | 45.884 | ug/l | 97 |
| 15) Acrylonitrile | 5.055 | 53 | 214746 | 241.303 | ug/l | 99 |
| 16) Acetone | 3.873 | 43 | 156746 | 182.326 | ug/l | 98 |
| 17) Carbon Disulfide | 4.104 | 76 | 605160 | 46.257 | ug/l | 99 |
| 18) Methyl Acetate | 4.385 | 43 | 132078 | 51.627 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 513333 | 49.373 | ug/l | 100 |
| 20) Methylene Chloride | 4.616 | 84 | 226871 | 50.830 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 219760 | 48.739 | ug/l | 100 |
| 22) Diisopropyl ether | 6.019 | 45 | 647978 | 50.509 | ug/l | 98 |
| 23) Vinyl Acetate | 5.958 | 43 | 1688350 | 238.003 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 397112 | 50.629 | ug/l | 99 |
| 25) 2-Butanone | 6.896 | 43 | 257717 | 220.416 | ug/l | 98 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 282620 | 41.758 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 262868 | 50.429 | ug/l | 99 |
| 28) Bromochloromethane | 7.244 | 49 | 156731 | 50.366 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.262 | 42 | 170771 | 235.626 | ug/l | 99 |
| 30) Chloroform | 7.421 | 83 | 420476 | 51.980 | ug/l | 96 |
| 31) Cyclohexane | 7.701 | 56 | 325108 | 43.985 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 359591 | 50.099 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 290479 | 47.183 | ug/l | 99 |
| 37) Ethyl Acetate | 6.982 | 43 | 118629 | 45.871 | ug/l | 98 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 315347 | 47.160 | ug/l | 97 |
| 39) Methylcyclohexane | 9.109 | 83 | 372844 | 45.989 | ug/l | 98 |
| 40) Benzene | 8.079 | 78 | 942603 | 49.676 | ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023109.D
Acq On : 14 Aug 2025 20:38
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 27 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Quant Time: Aug 18 01:32:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.220 | 41 | 63879 | 42.799 | ug/l | | 93 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 245917 | 49.831 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.195 | 43 | 245206 | 46.911 | ug/l | | 100 |
| 44) Trichloroethene | 8.866 | 130 | 232571 | 47.429 | ug/l | | 99 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 219128 | 50.190 | ug/l | | 98 |
| 46) Dibromomethane | 9.231 | 93 | 125840 | 50.217 | ug/l | | 97 |
| 47) Bromodichloromethane | 9.420 | 83 | 330836 | 51.308 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.219 | 41 | 116562 | 46.602 | ug/l | | 95 |
| 49) 1,4-Dioxane | 9.225 | 88 | 28202 | 959.813 | ug/l | | 93 |
| 51) 4-Methyl-2-Pentanone | 9.993 | 43 | 648196 | 240.407 | ug/l | | 100 |
| 52) Toluene | 10.170 | 92 | 608495 | 50.491 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 280629 | 48.061 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 333217 | 48.260 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 10.567 | 97 | 164684 | 49.113 | ug/l | | 97 |
| 56) Ethyl methacrylate | 10.438 | 69 | 211730 | 49.346 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 280123 | 49.259 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 522597 | 258.207 | ug/l | | 100 |
| 59) 2-Hexanone | 10.756 | 43 | 429008 | 233.670 | ug/l | | 99 |
| 60) Dibromochloromethane | 10.908 | 129 | 220549 | 49.847 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.012 | 107 | 154512 | 49.026 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.646 | 164 | 264997 | 47.178 | ug/l | | 98 |
| 65) Chlorobenzene | 11.438 | 112 | 655836 | 48.335 | ug/l | | 96 |
| 66) 1,1,1,2-Tetrachloroethane | 11.511 | 131 | 226496 | 49.184 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.518 | 91 | 1138907 | 48.775 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 910415 | 99.829 | ug/l | | 99 |
| 69) o-Xylene | 11.950 | 106 | 431382 | 50.504 | ug/l | | 99 |
| 70) Styrene | 11.963 | 104 | 723332 | 51.783 | ug/l | | 99 |
| 71) Bromoform | 12.127 | 173 | 127183 | 47.255 | ug/l | | 98 |
| 73) Isopropylbenzene | 12.249 | 105 | 1085768 | 46.938 | ug/l | | 100 |
| 74) N-amyl acetate | 12.066 | 43 | 218818 | 44.606 | ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.499 | 83 | 180905 | 45.802 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.548 | 75 | 236792 | 74.861 | ug/l | # | 100 |
| 77) Bromobenzene | 12.530 | 156 | 254766 | 46.165 | ug/l | | 98 |
| 78) n-propylbenzene | 12.591 | 91 | 1321560 | 47.987 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 749983 | 47.529 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.731 | 105 | 901239 | 48.207 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.298 | 75 | 51968 | 39.770 | ug/l | | 94 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 794254 | 48.521 | ug/l | | 99 |
| 83) tert-Butylbenzene | 12.993 | 119 | 794810 | 47.072 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.036 | 105 | 915823 | 49.211 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.170 | 105 | 1185899 | 47.812 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.286 | 119 | 997638 | 48.457 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.279 | 146 | 521768 | 47.944 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 506066 | 46.877 | ug/l | | 100 |
| 89) n-Butylbenzene | 13.615 | 91 | 922027 | 48.761 | ug/l | | 98 |
| 90) Hexachloroethane | 13.877 | 117 | 202066 | 47.944 | ug/l | | 97 |
| 91) 1,2-Dichlorobenzene | 13.651 | 146 | 449904 | 47.139 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.267 | 75 | 27986 | 45.509 | ug/l | | 94 |
| 93) 1,2,4-Trichlorobenzene | 14.913 | 180 | 252540 | 44.744 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 15.017 | 225 | 143621 | 43.304 | ug/l | | 99 |
| 95) Naphthalene | 15.139 | 128 | 443360 | 46.067 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.322 | 180 | 218352 | 44.896 | ug/l | | 99 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023109.D
Acq On : 14 Aug 2025 20:38
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 27 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Quant Time: Aug 18 01:32:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

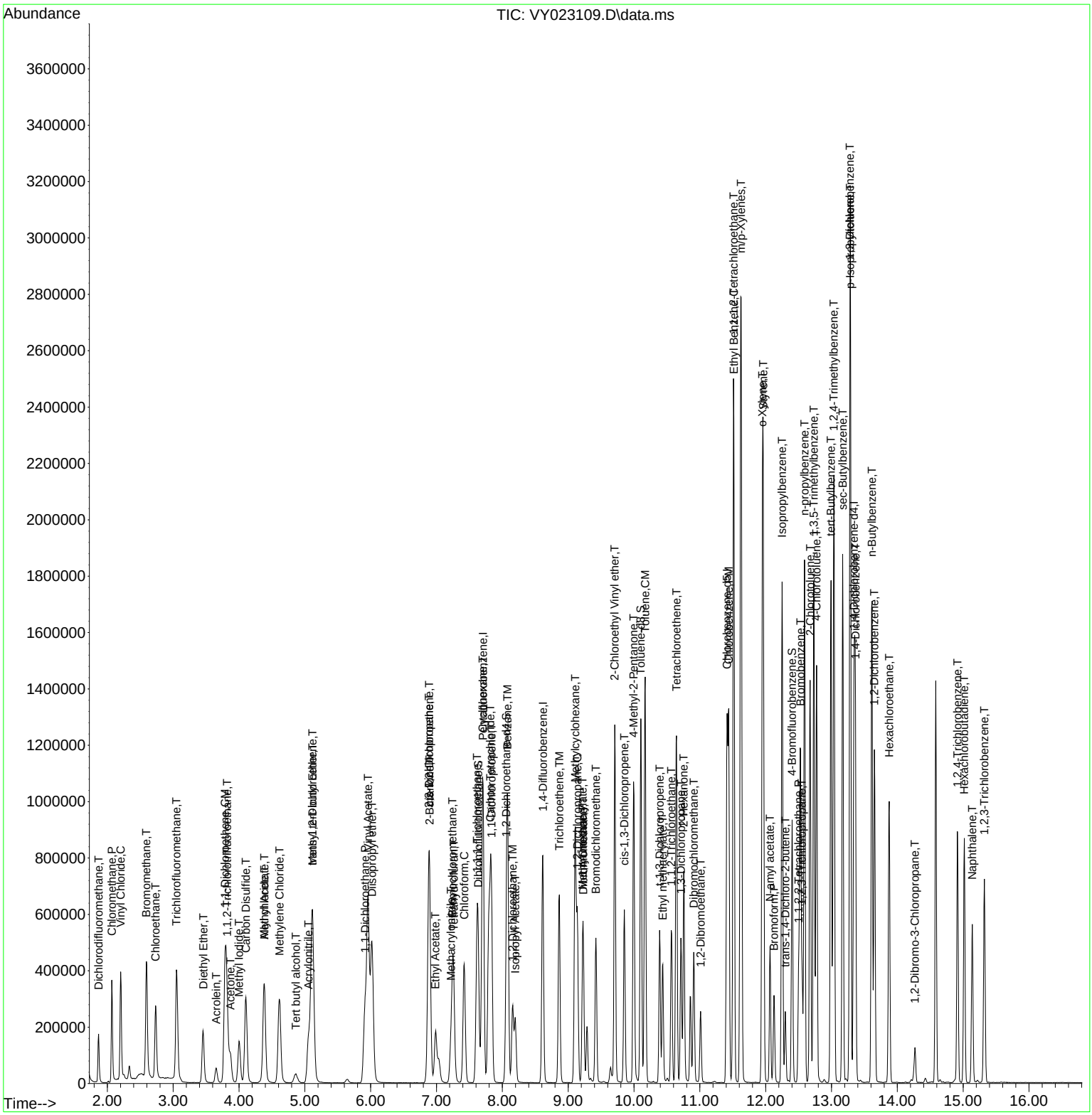
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

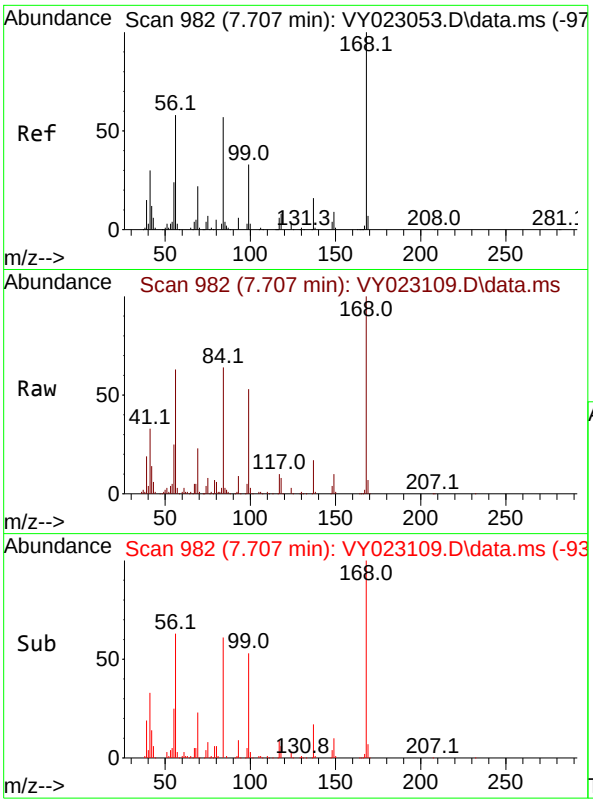
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081425\
Data File : VY023109.D
Acq On : 14 Aug 2025 20:38
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 27 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Quant Time: Aug 18 01:32:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



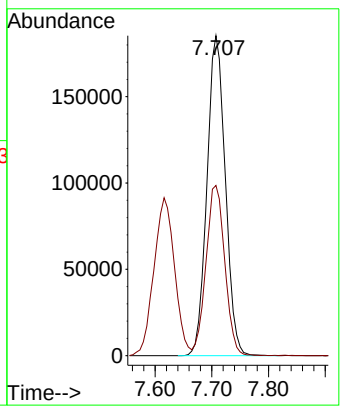


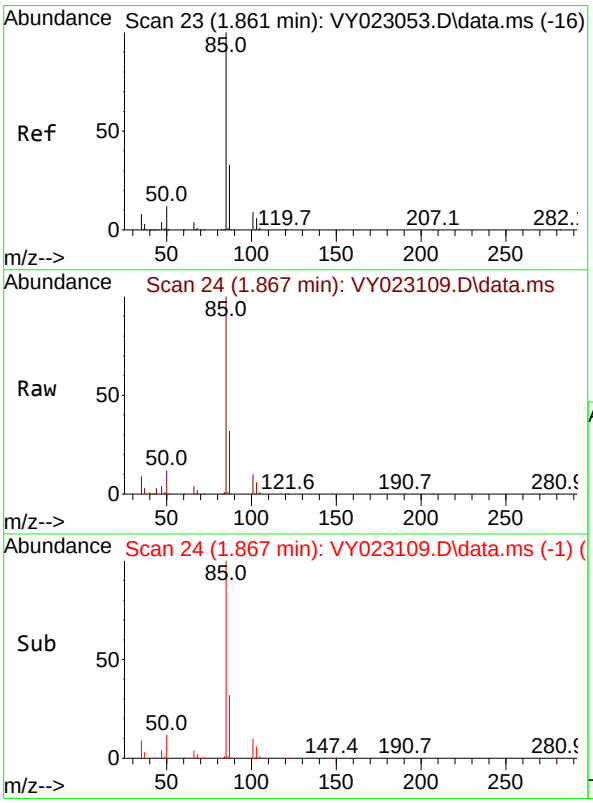

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:168 Resp: 416366

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 53.2 | 42.8 | 64.2 |

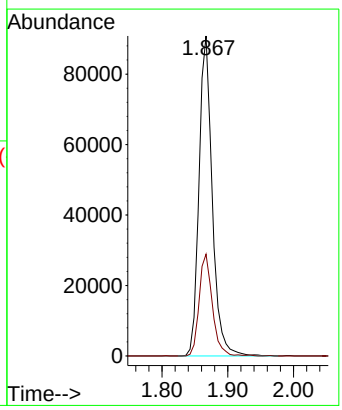


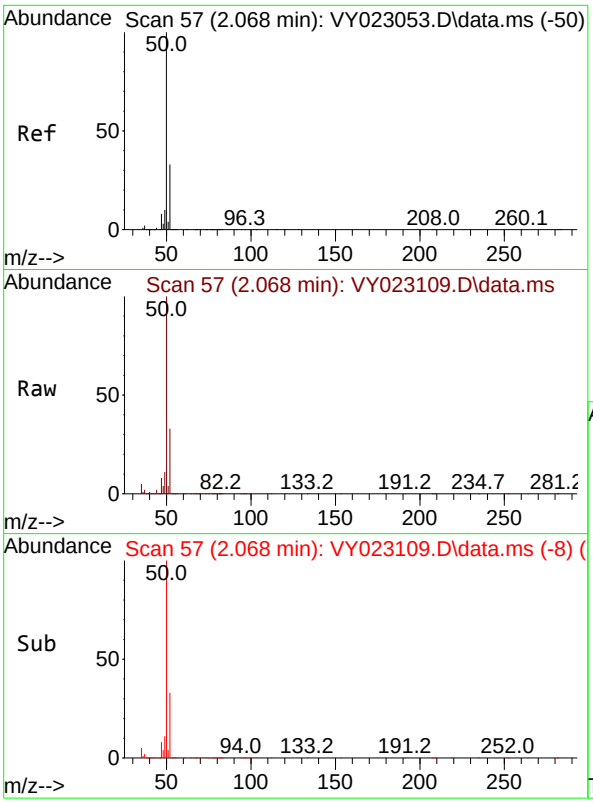




#2
Dichlorodifluoromethane
Concen: 37.436 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 85 Resp: 127230

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.8 | 16.6 | 49.8 |



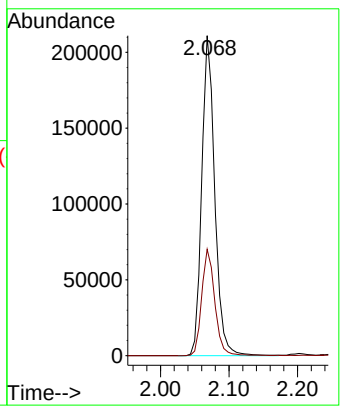


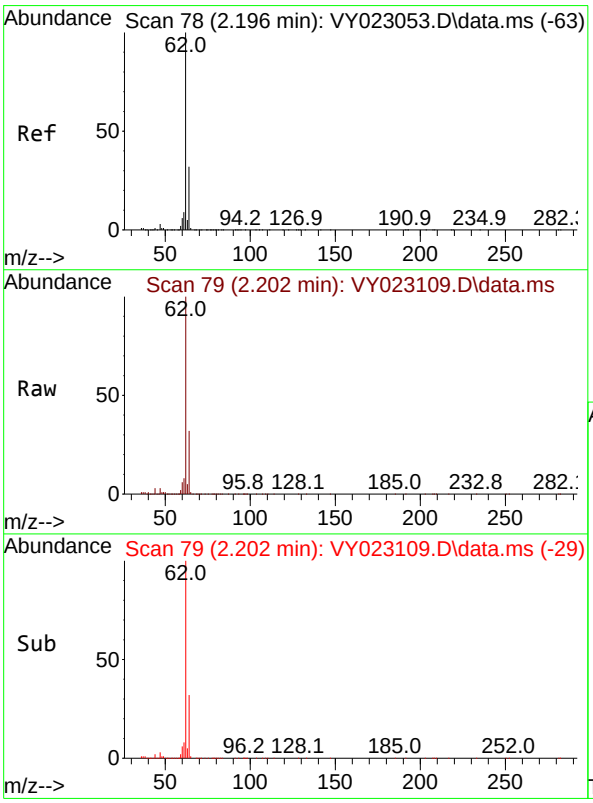

#3
Chloromethane
Concen: 50.612 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 50 Resp: 278602

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.3 | 26.7 | 40.1 |

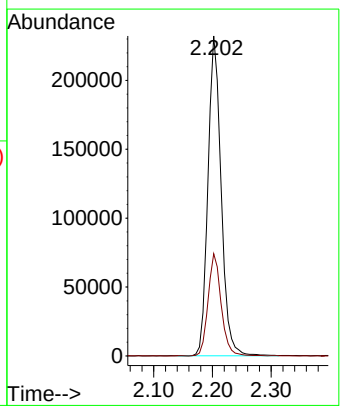


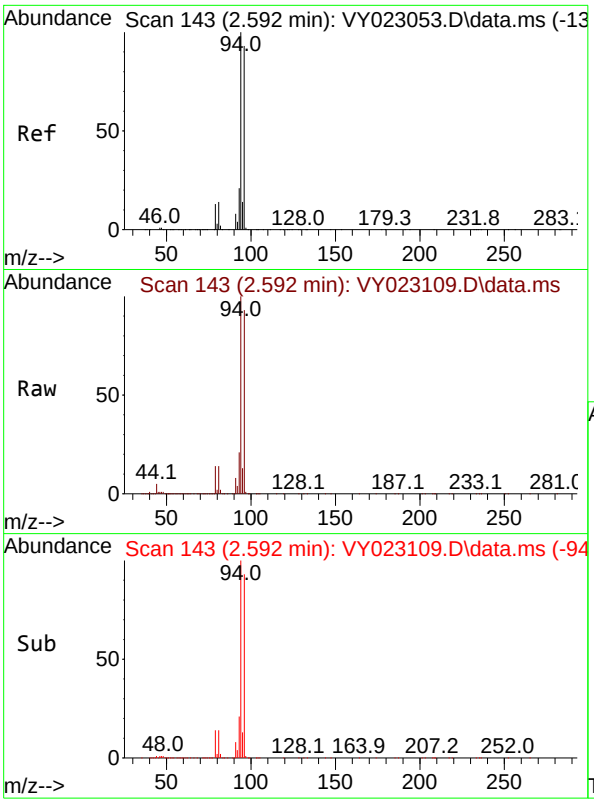




#4
Vinyl Chloride
Concen: 53.299 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 62 Resp: 362671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.9 | 25.4 | 38.0 |



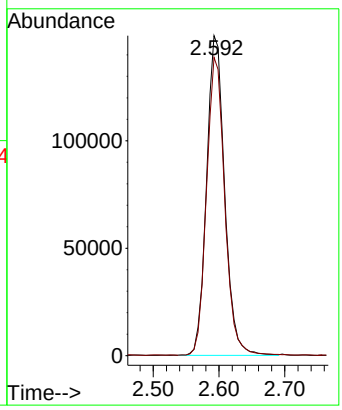


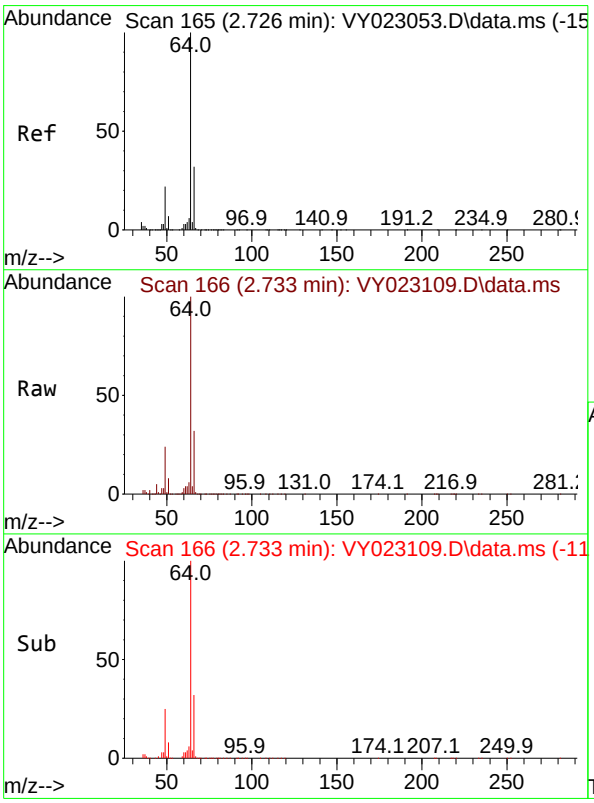

#5
Bromomethane
Concen: 56.056 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 94 Resp: 284864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 93.2 | 74.6 | 112.0 |

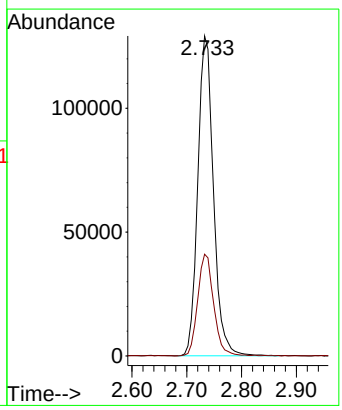


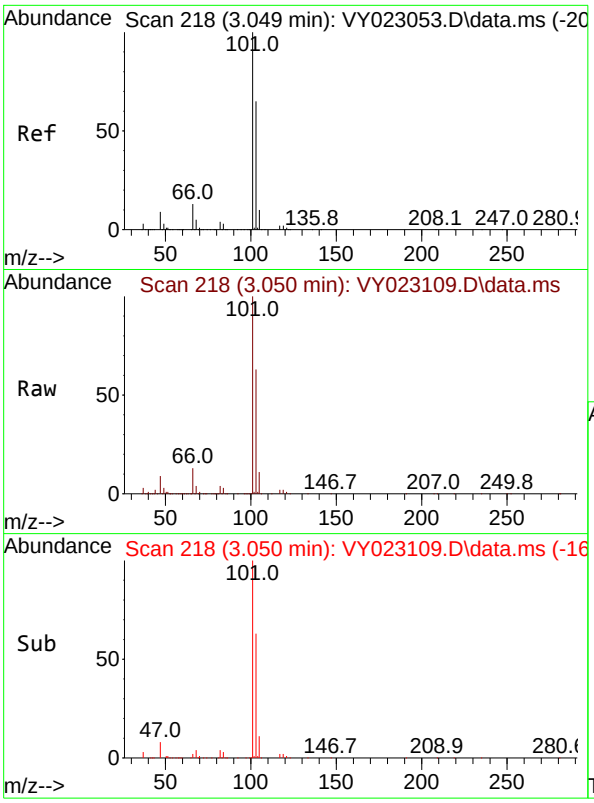




#6
Chloroethane
Concen: 56.698 ug/l
RT: 2.733 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 64 Resp: 256493

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.8 | 25.8 | 38.6 |



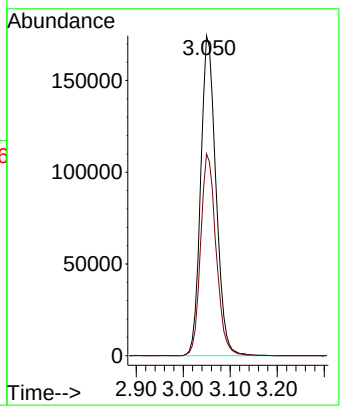


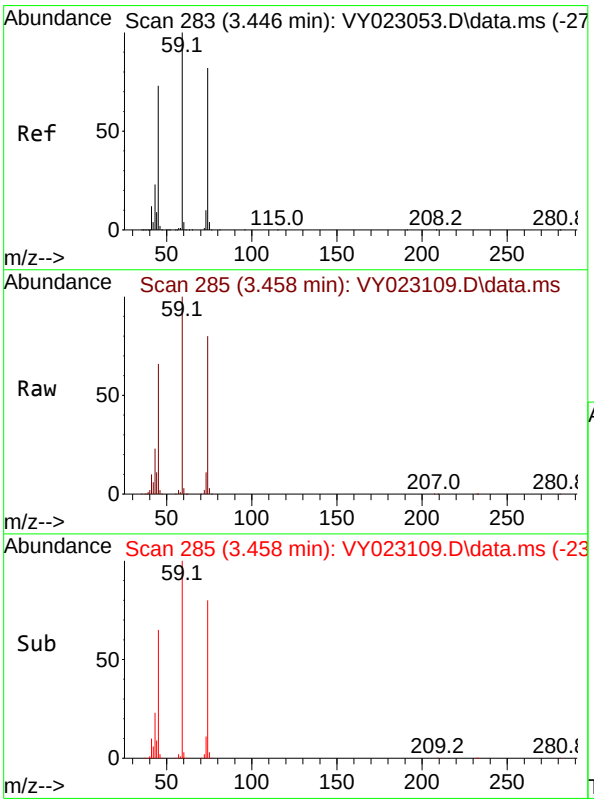

#7
Trichlorofluoromethane
Concen: 47.526 ug/l
RT: 3.050 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:101 Resp: 393227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.0 | 51.9 | 77.9 |

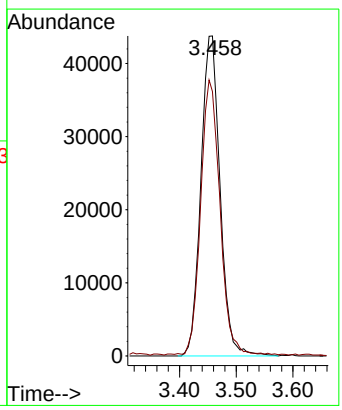


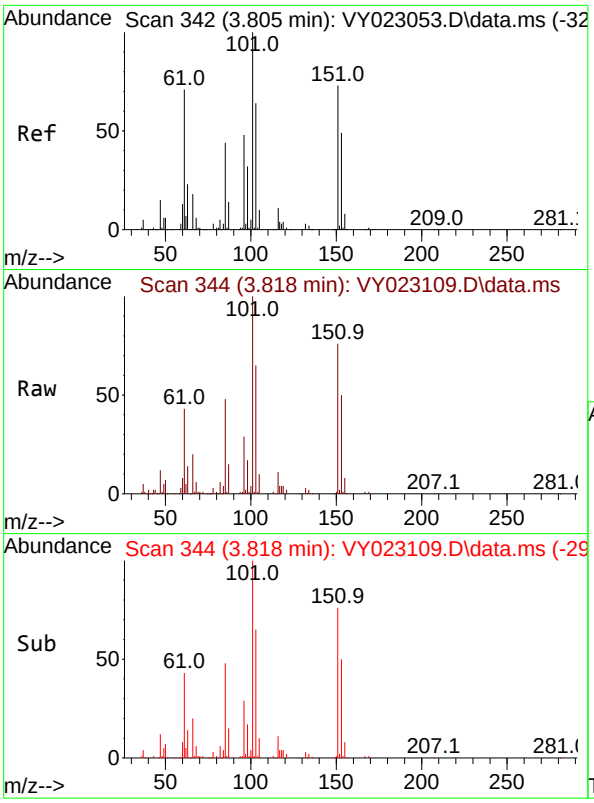




#8
Diethyl Ether
Concen: 46.826 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.012 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 74 Resp: 102502

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 86.7 | 44.4 | 133.2 |



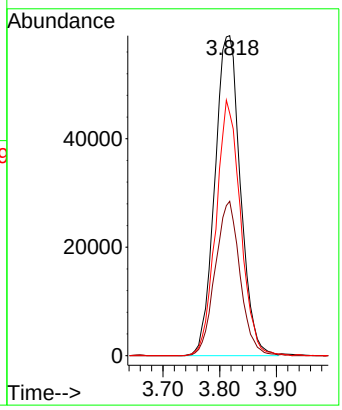


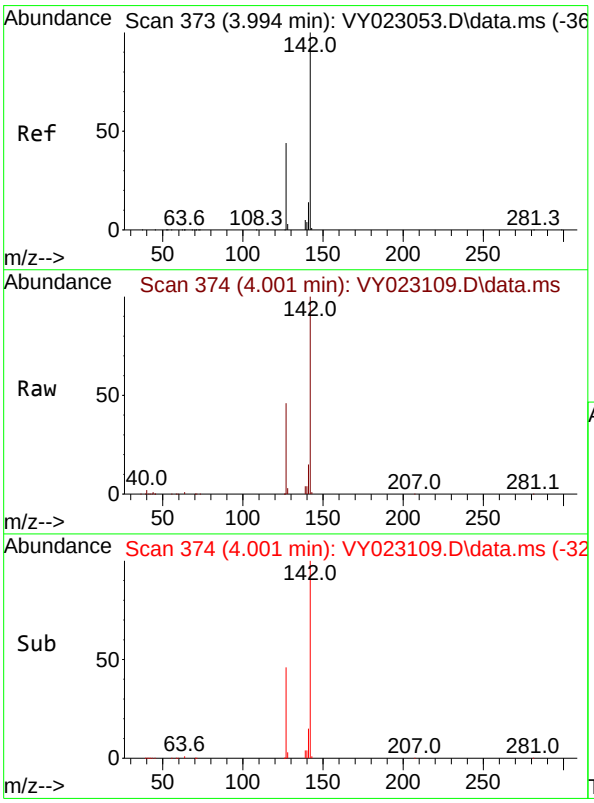

#9
1,1,2-Trichlorotrifluoroethane
Concen: 45.401 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.012 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:101 Resp: 185323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 47.0 | 36.3 | 54.5 |
| 151 | 76.6 | 61.5 | 92.3 |

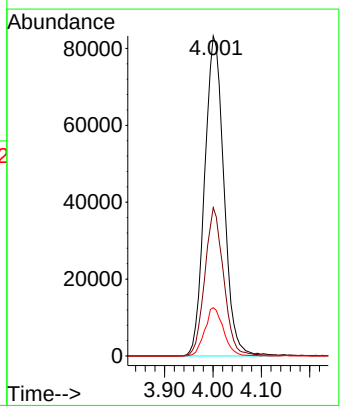


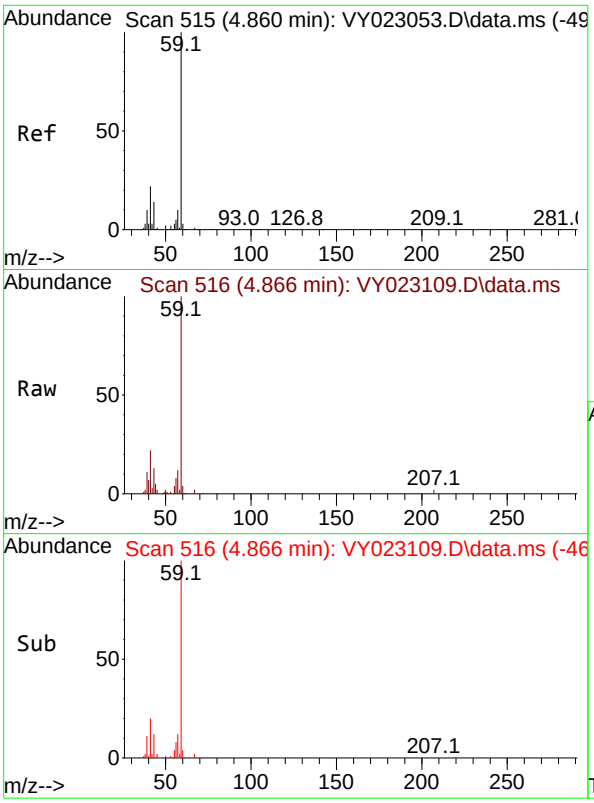




#10
Methyl Iodide
Concen: 52.294 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:142 Resp: 230343

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 45.3 | 34.9 | 52.3 |
| 141 | 14.7 | 11.3 | 16.9 |



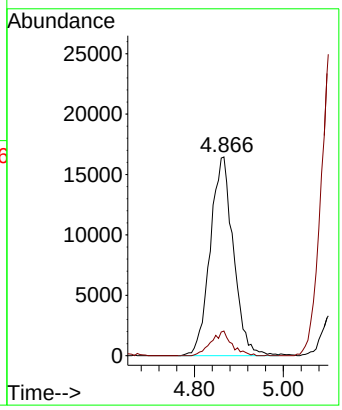


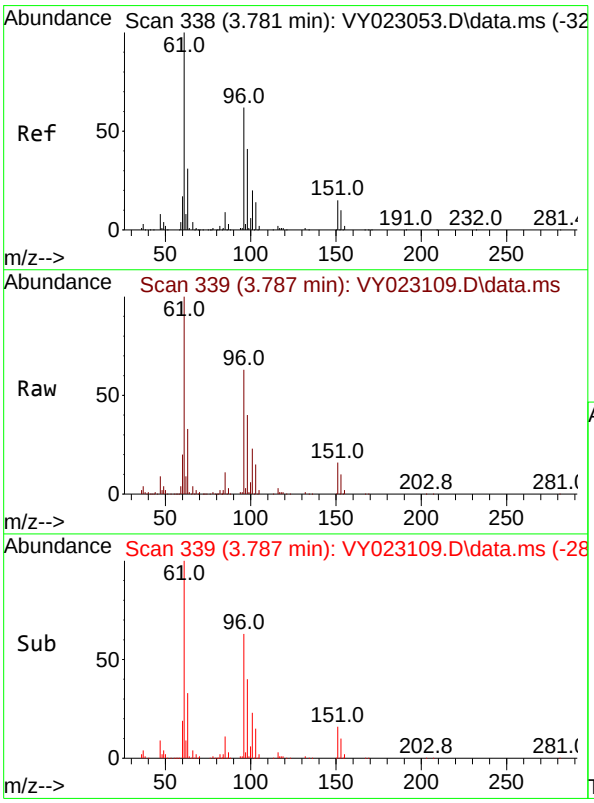

#11
Tert butyl alcohol
Concen: 219.404 ug/l
RT: 4.866 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 59 Resp: 59656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 11.0 | 8.6 | 13.0 |

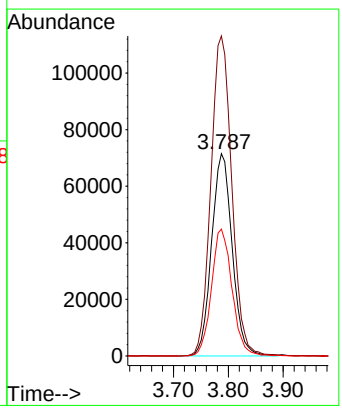


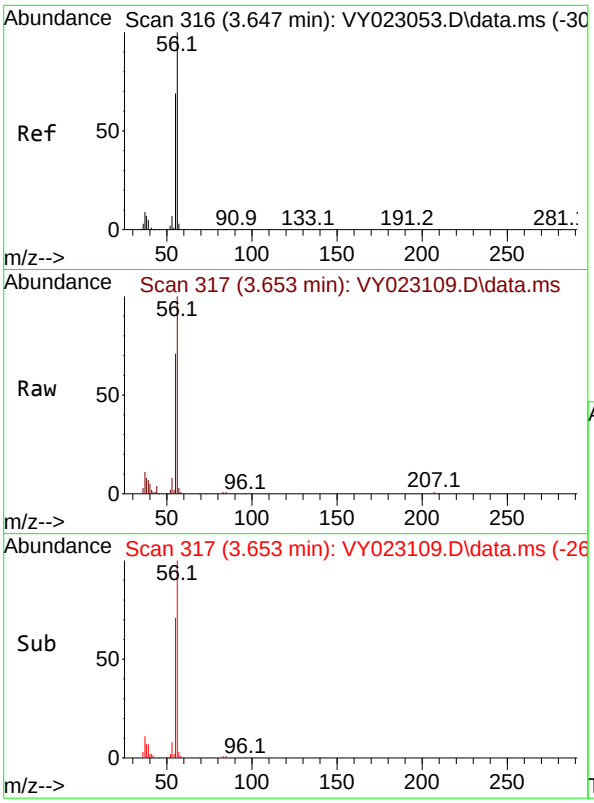




#12
1,1-Dichloroethene
Concen: 46.597 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 96 Resp: 186960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 158.3 | 129.4 | 194.2 |
| 98 | 62.7 | 52.8 | 79.2 |



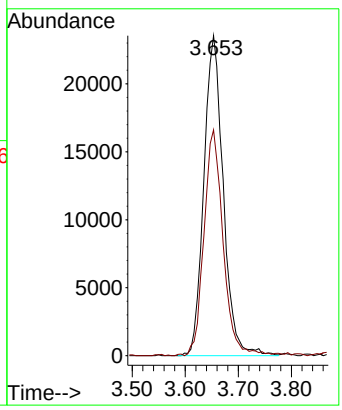


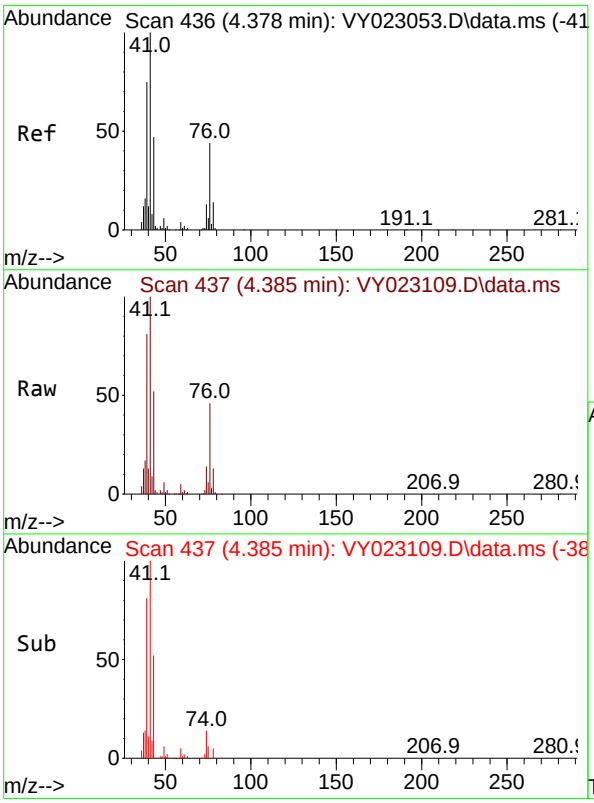

#13
Acrolein
Concen: 150.160 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 56 Resp: 59794

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 69.6 | 55.2 | 82.8 |

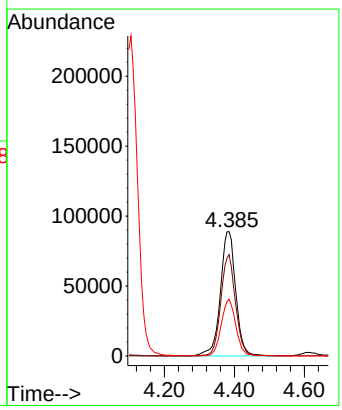


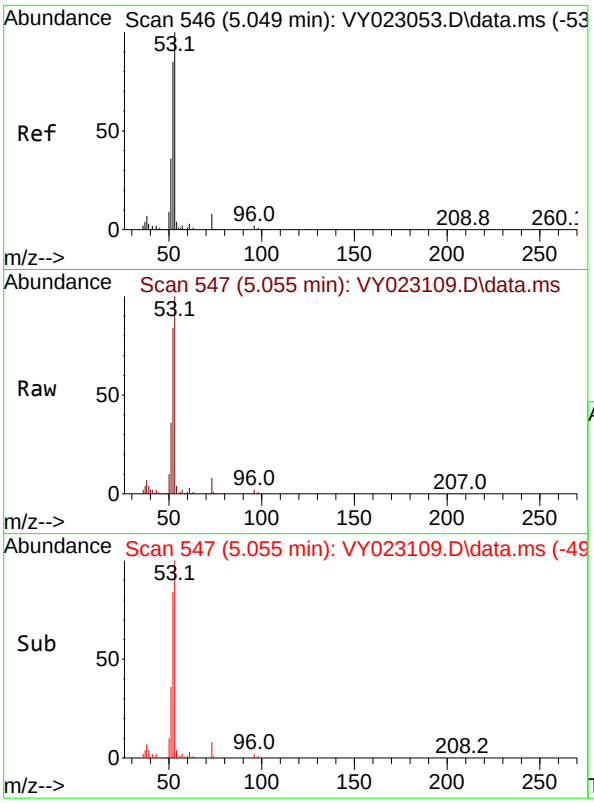




#14
Allyl chloride
Concen: 45.884 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 41 Resp: 270891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 78.0 | 59.8 | 89.6 |
| 76 | 43.3 | 33.7 | 50.5 |



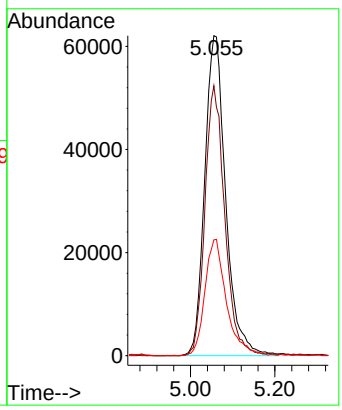


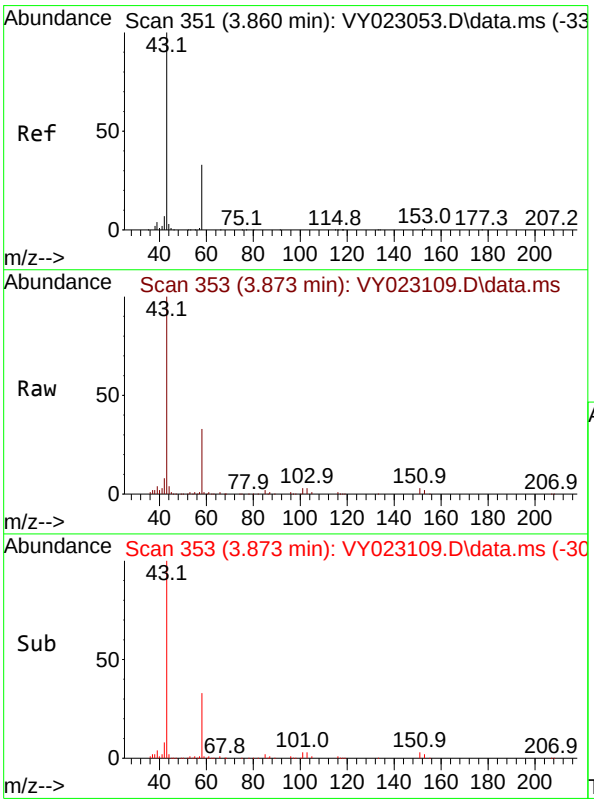

#15
Acrylonitrile
Concen: 241.303 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 53 Resp: 214746

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 80.1 | 65.3 | 97.9 |
| 51 | 37.3 | 29.5 | 44.3 |

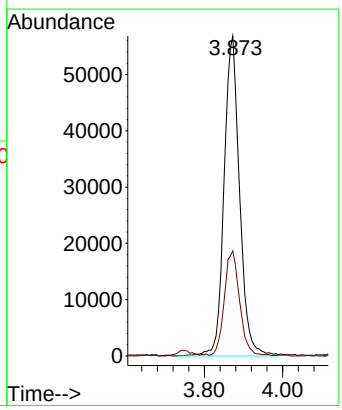


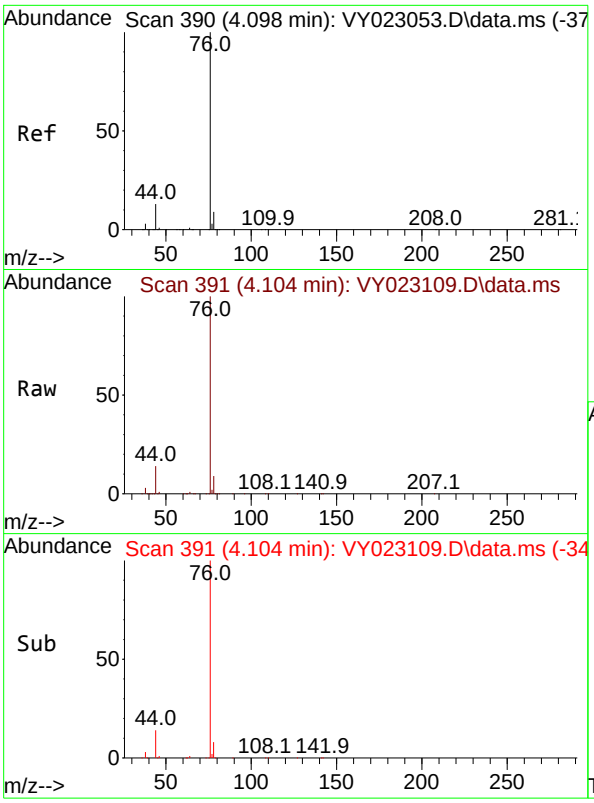




#16
Acetone
Concen: 182.326 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.012 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 43 Resp: 156746

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.6 | 27.1 | 40.7 |



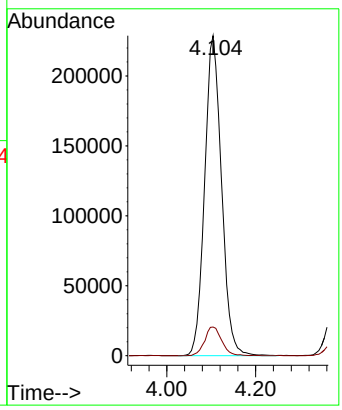


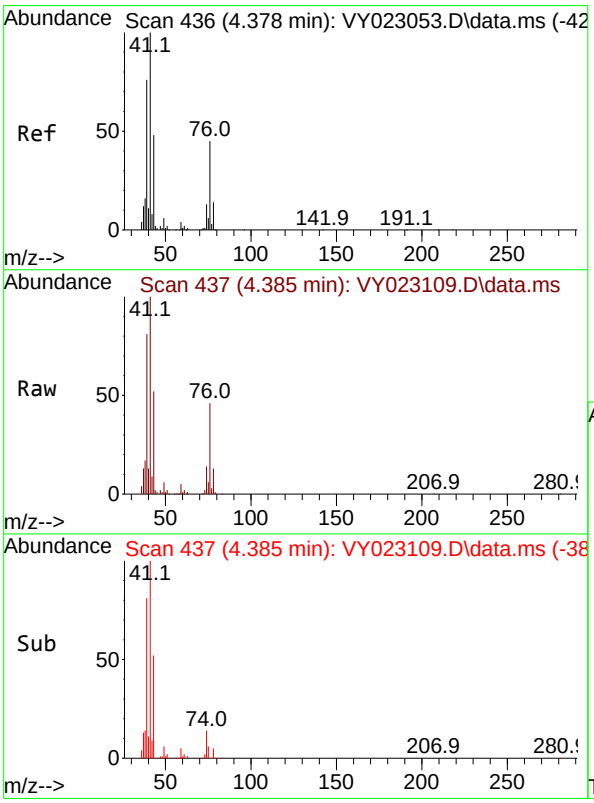

#17
Carbon Disulfide
Concen: 46.257 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 76 Resp: 605160

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.0 | 7.4 | 11.2 |

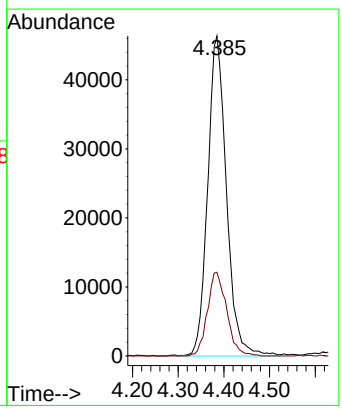


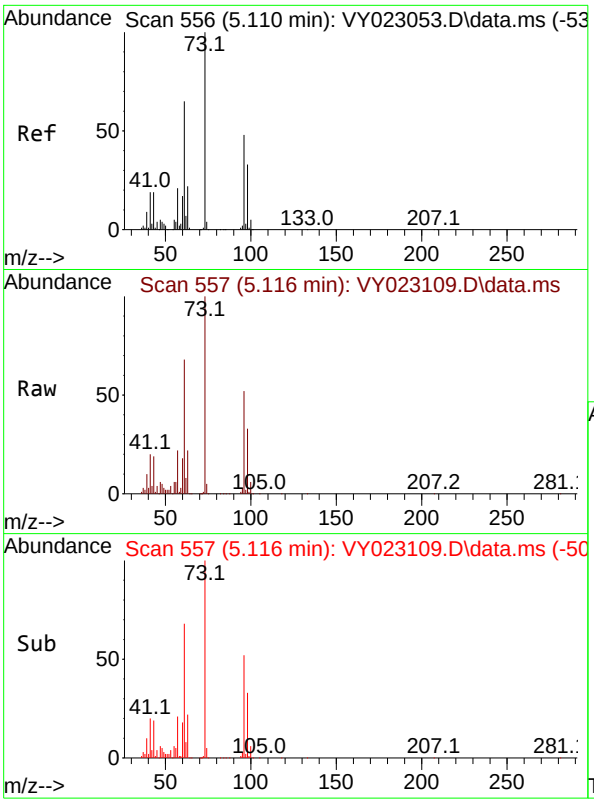




#18
Methyl Acetate
Concen: 51.627 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 43 Resp: 132078

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 26.9 | 21.2 | 31.8 |



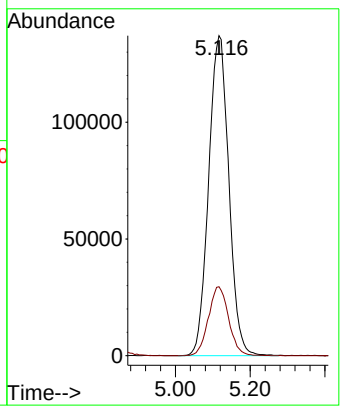


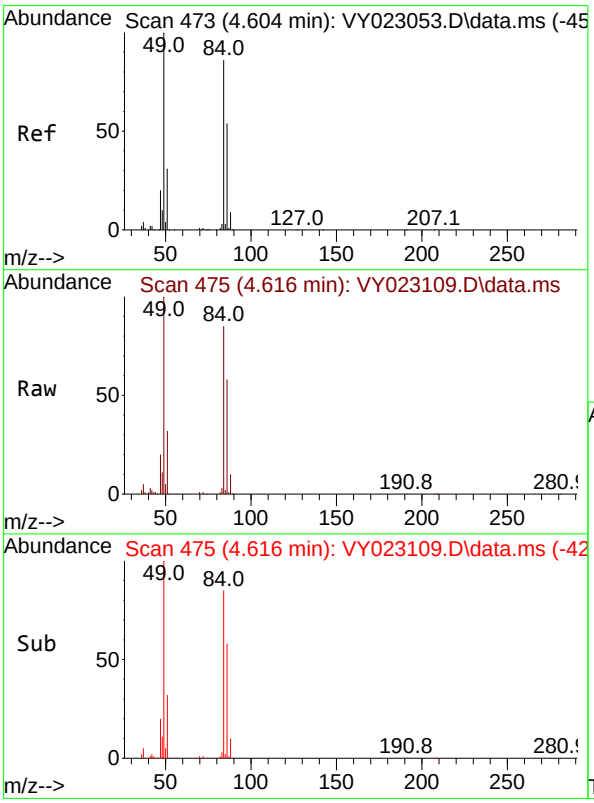

#19
Methyl tert-butyl Ether
Concen: 49.373 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 73 Resp: 513333

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.5 | 17.1 | 25.7 |

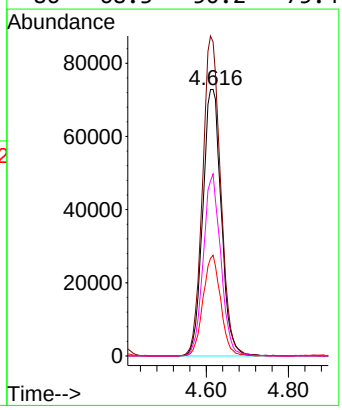


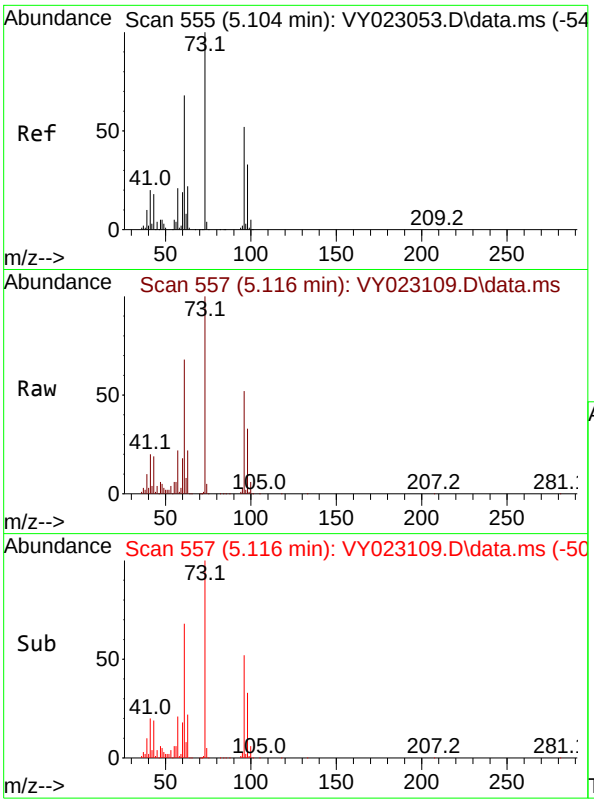




#20
Methylene Chloride
Concen: 50.830 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.012 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 84 Resp: 226871

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 117.8 | 93.0 | 139.6 |
| 51 | 37.9 | 29.0 | 43.4 |
| 86 | 68.3 | 50.2 | 75.4 |



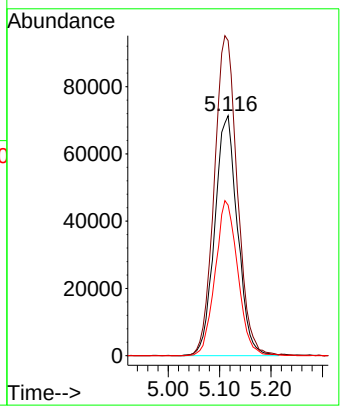


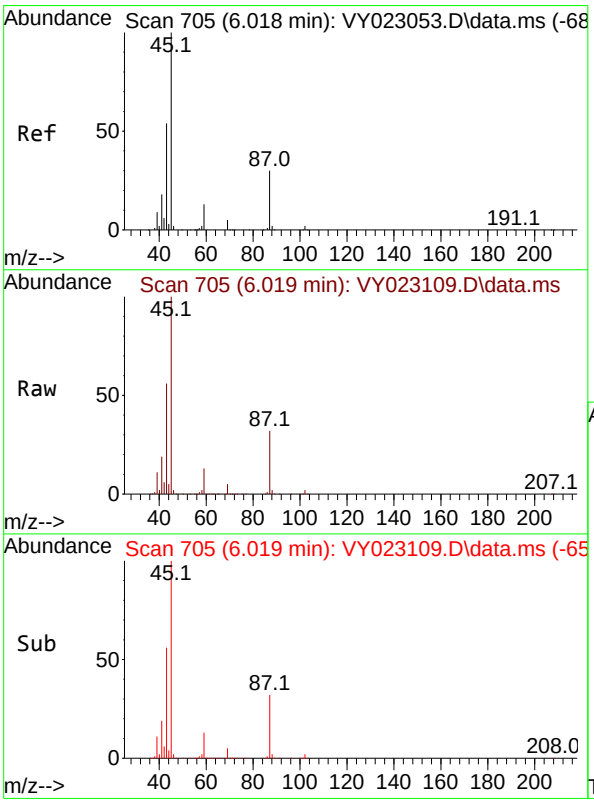

#21
trans-1,2-Dichloroethene
Concen: 48.739 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 96 Resp: 219760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 131.3 | 104.8 | 157.2 |
| 98 | 62.7 | 50.1 | 75.1 |

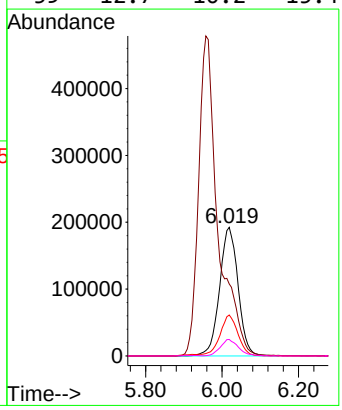


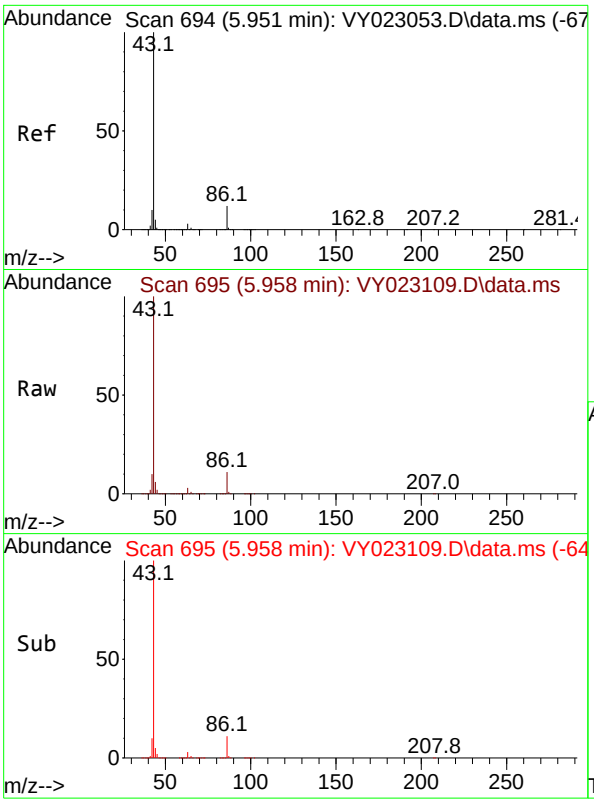




#22
Diisopropyl ether
Concen: 50.509 ug/l
RT: 6.019 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 45 Resp: 647978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 56.0 | 43.4 | 65.0 |
| 87 | 31.9 | 24.4 | 36.6 |
| 59 | 12.7 | 10.2 | 15.4 |



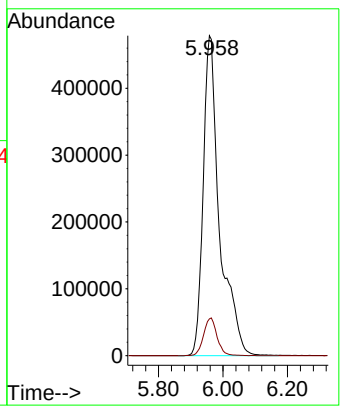


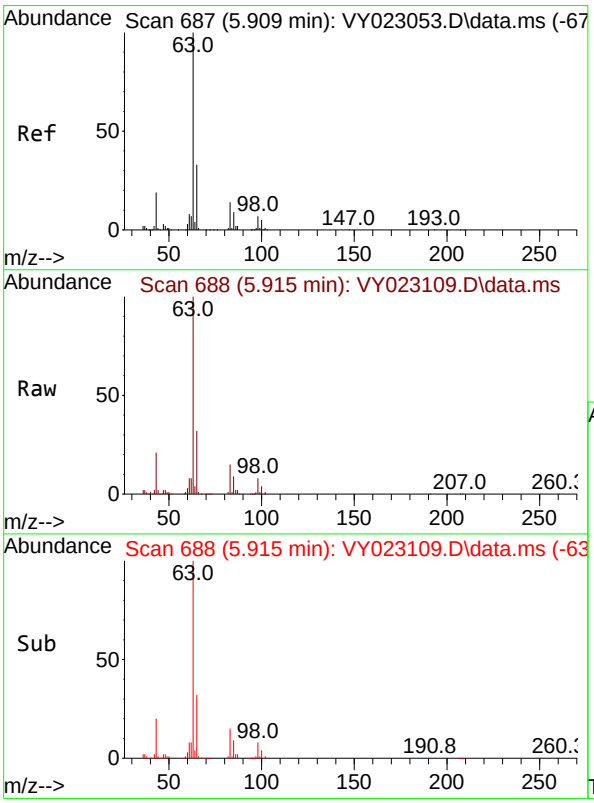

#23
Vinyl Acetate
Concen: 238.003 ug/l
RT: 5.958 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 43 Resp: 1688350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.5 | 9.6 | 14.4 |

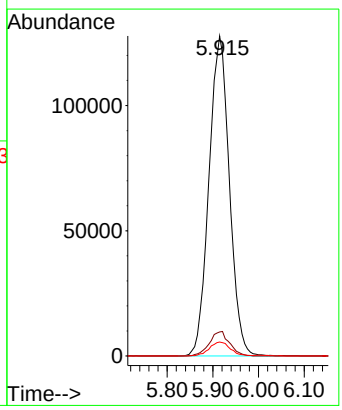


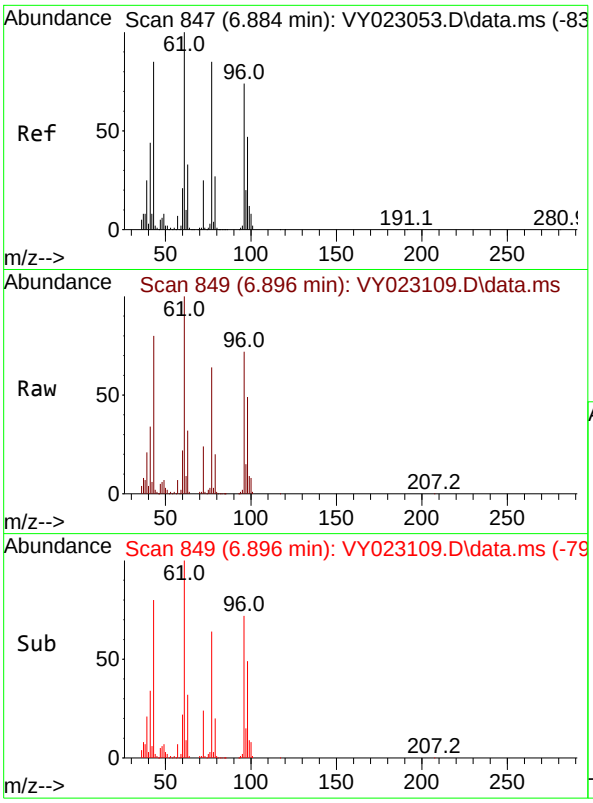




#24
1,1-Dichloroethane
Concen: 50.629 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 63 Resp: 397112

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.5 | 3.5 | 10.6 |
| 100 | 4.4 | 2.4 | 7.1 |



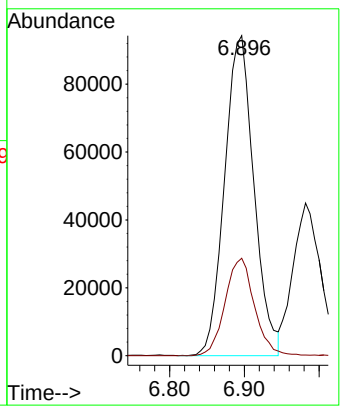


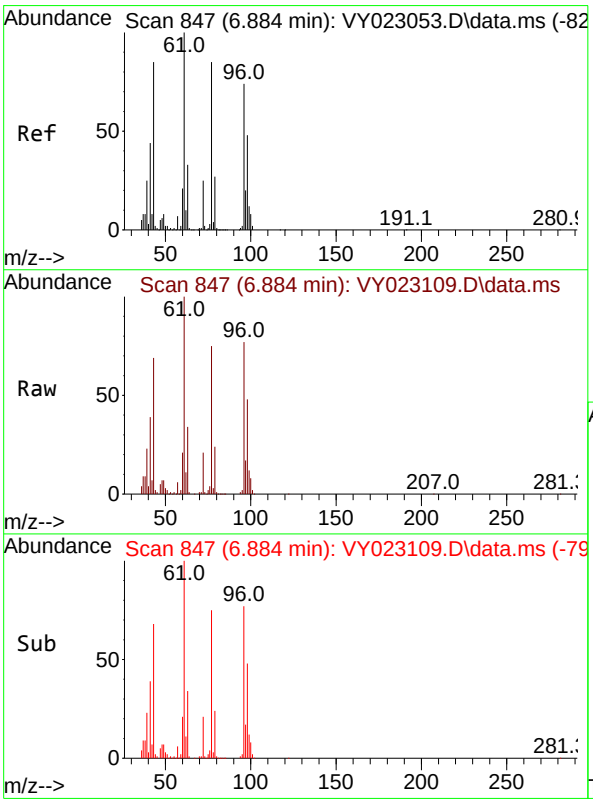

#25
2-Butanone
Concen: 220.416 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.012 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 43 Resp: 257717

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 30.4 | 23.5 | 35.3 |

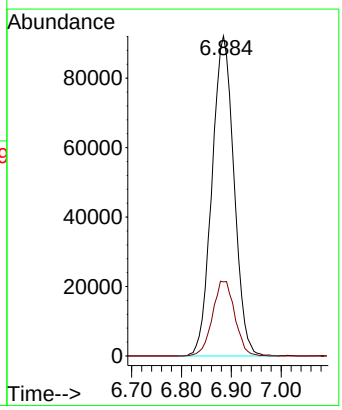


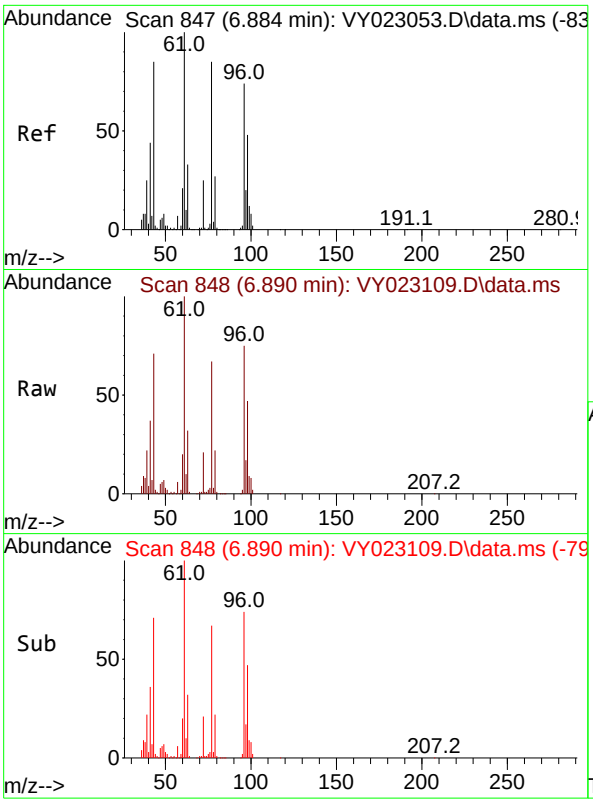




#26
2,2-Dichloropropane
Concen: 41.758 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 77 Resp: 282620

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.7 | 11.6 | 34.8 |



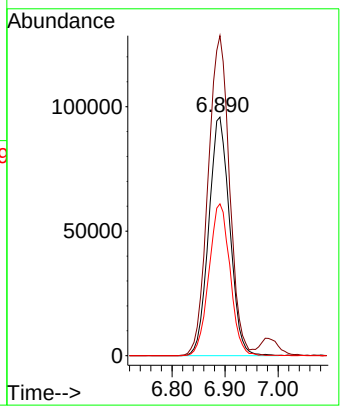


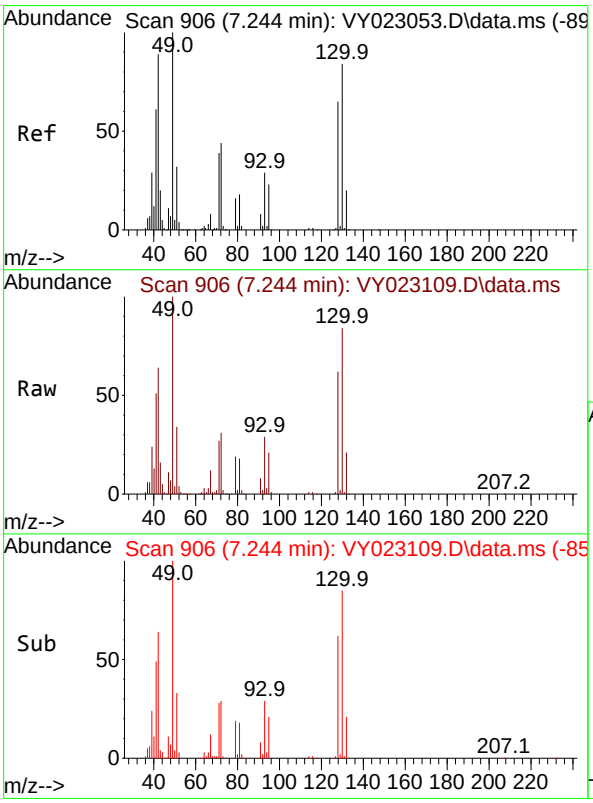

#27
cis-1,2-Dichloroethene
Concen: 50.429 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 96 Resp: 262868

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 137.3 | 0.0 | 278.6 |
| 98 | 64.3 | 0.0 | 130.4 |

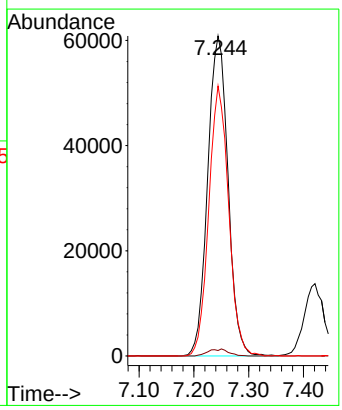


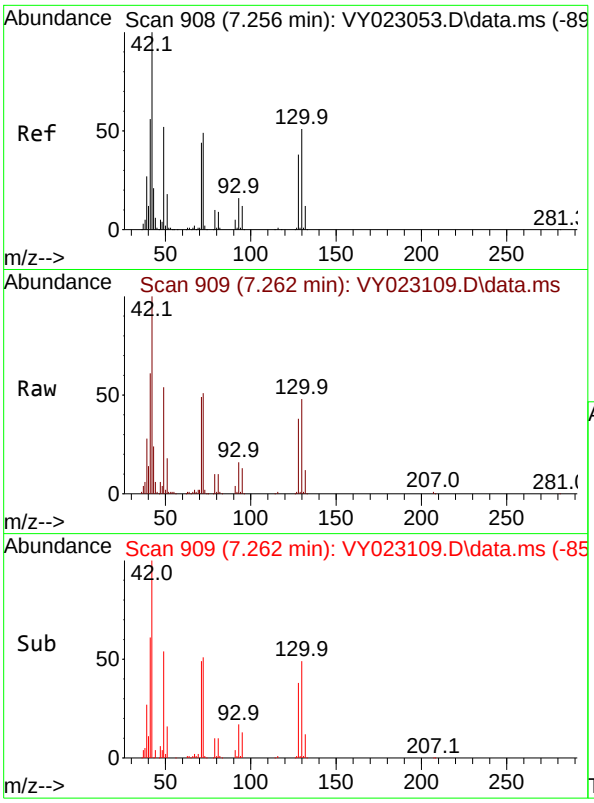




#28
Bromochloromethane
Concen: 50.366 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 49 Resp: 156731

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.2 | 0.0 | 4.2 |
| 130 | 82.2 | 66.4 | 99.6 |



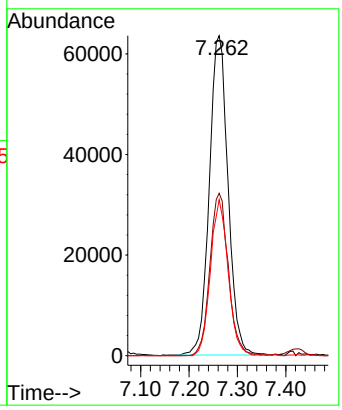


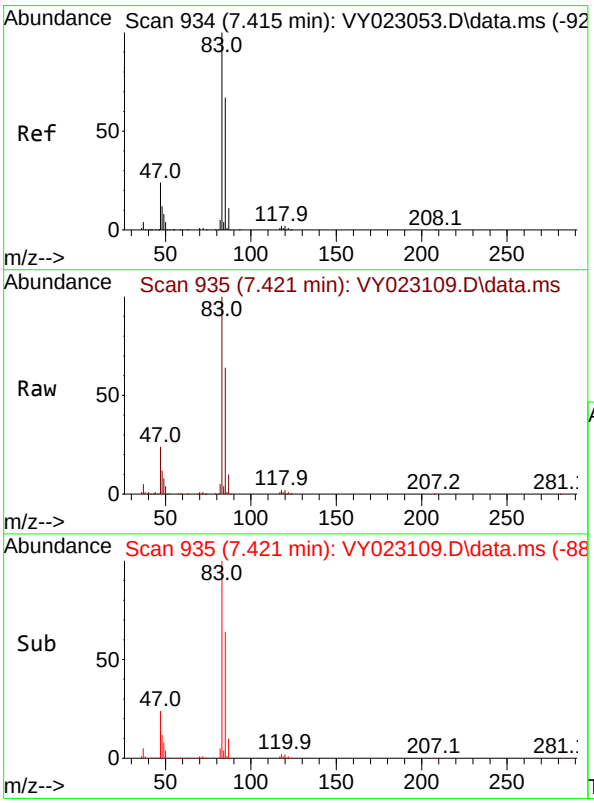

#29
Tetrahydrofuran
Concen: 235.626 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 42 Resp: 170771

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 50.1 | 39.4 | 59.2 |
| 71 | 46.1 | 36.5 | 54.7 |

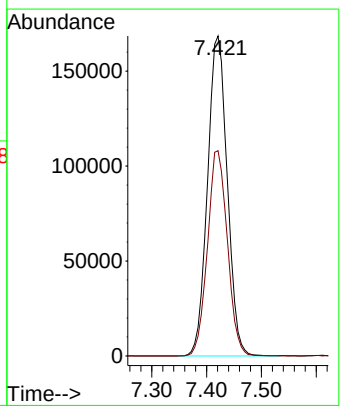


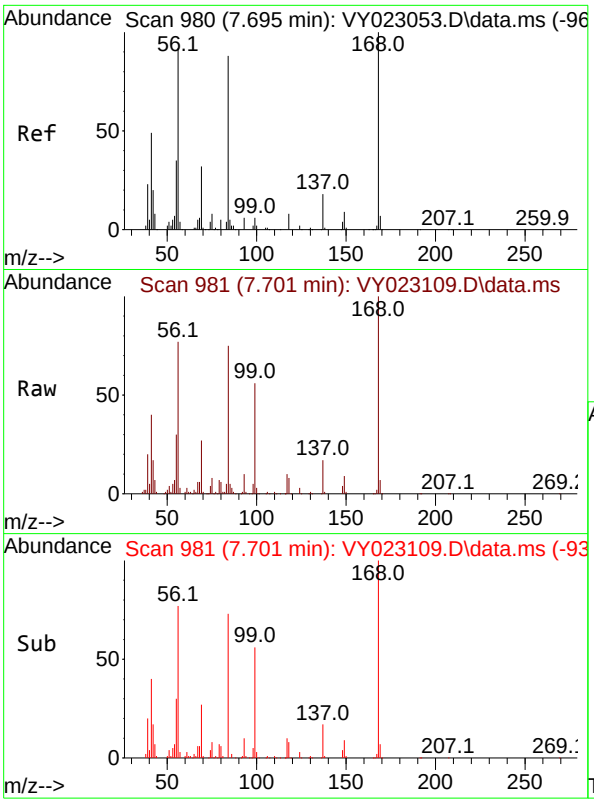




#30
Chloroform
Concen: 51.980 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 83 Resp: 420476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.2 | 53.8 | 80.8 |



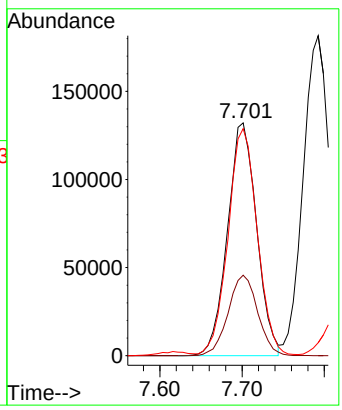


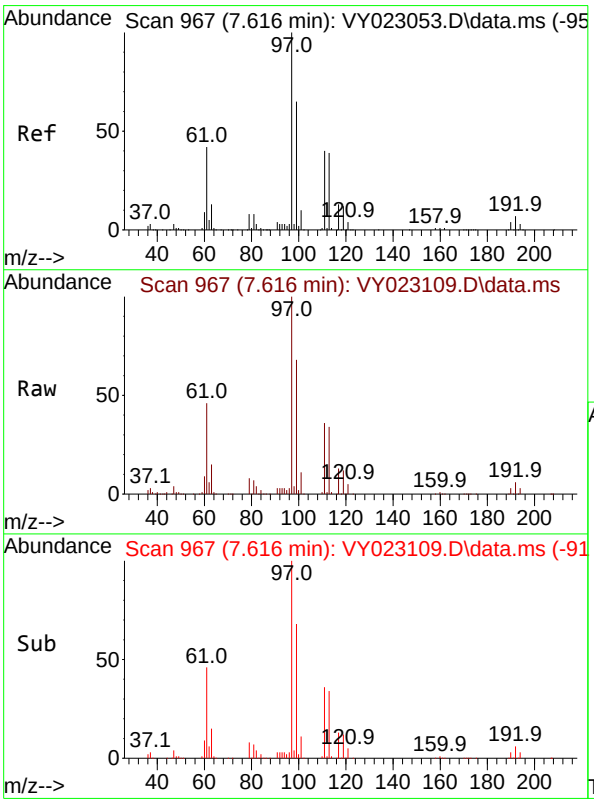

#31
Cyclohexane
Concen: 43.985 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 56 Resp: 325108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 34.6 | 28.2 | 42.2 |
| 84 | 96.0 | 76.6 | 114.8 |

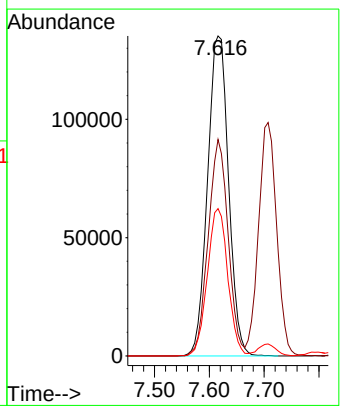


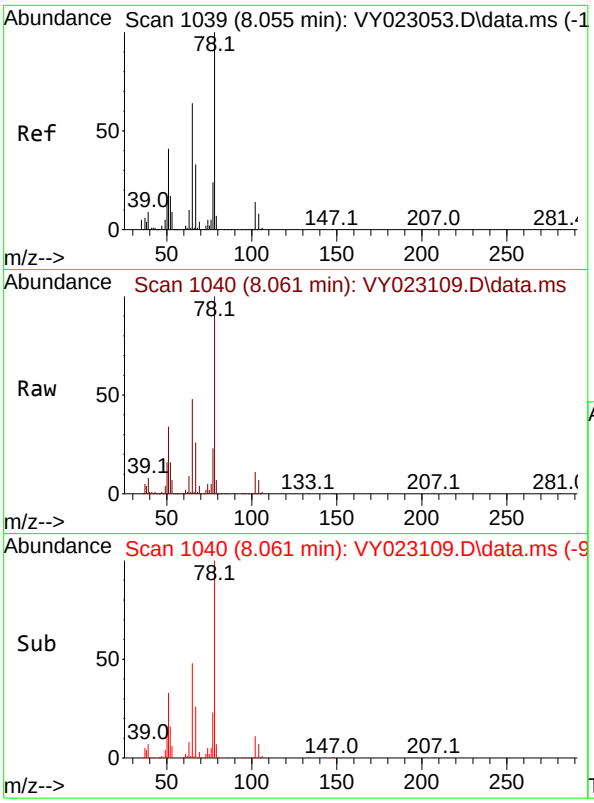




#32
1,1,1-Trichloroethane
Concen: 50.099 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 97 Resp: 359591

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.4 | 51.6 | 77.4 |
| 61 | 45.0 | 34.2 | 51.2 |



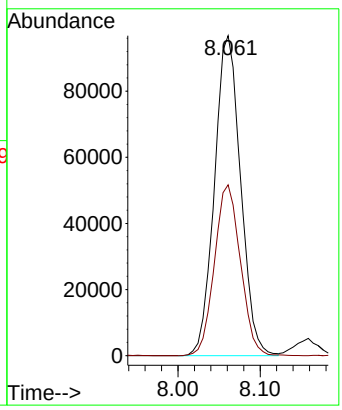


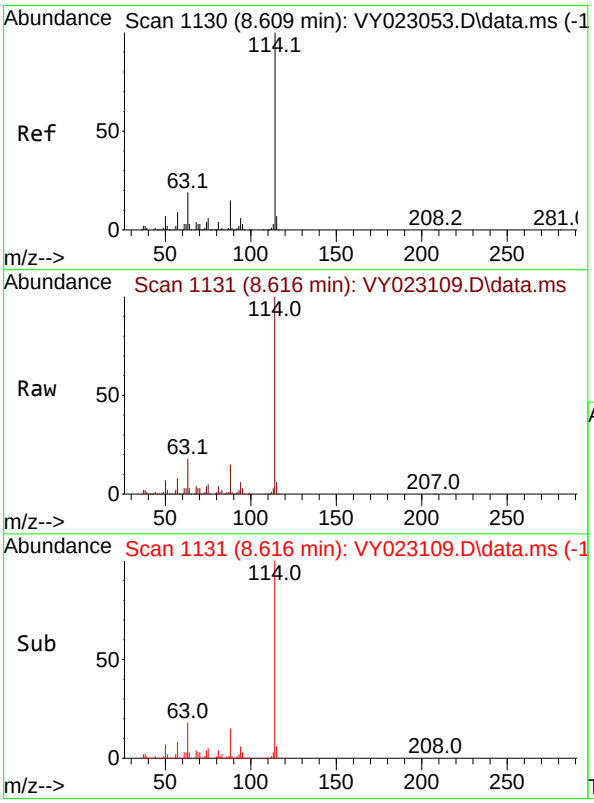

#33
1,2-Dichloroethane-d4
Concen: 53.901 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 65 Resp: 213894

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.0 | 0.0 | 106.8 |

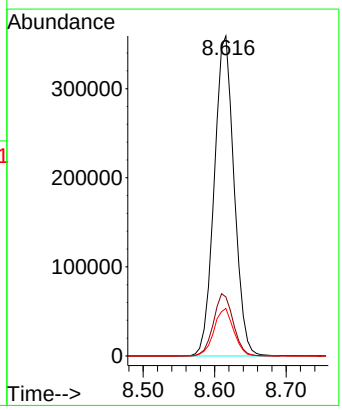


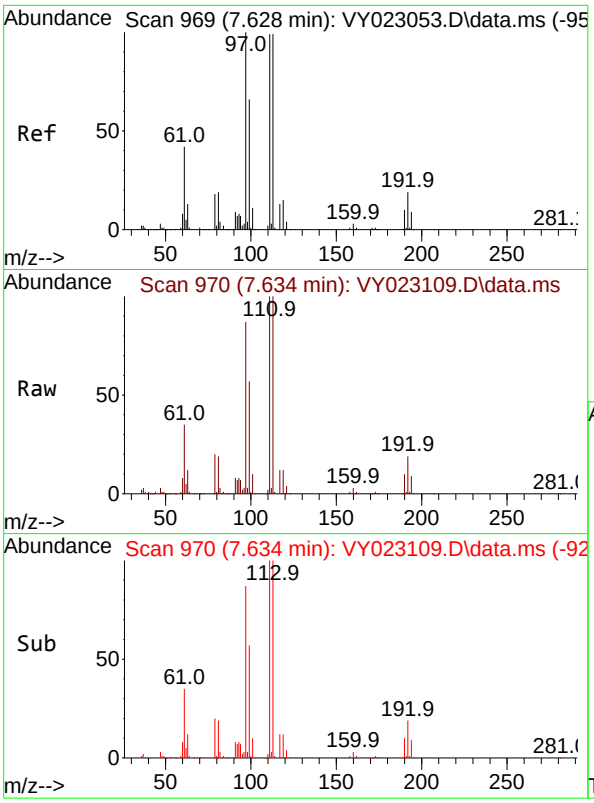




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:114 Resp: 692312

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.5 | 0.0 | 38.4 |
| 88 | 14.9 | 0.0 | 30.0 |



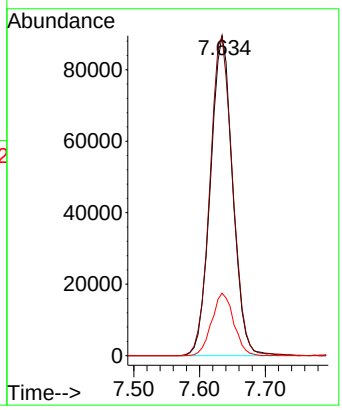


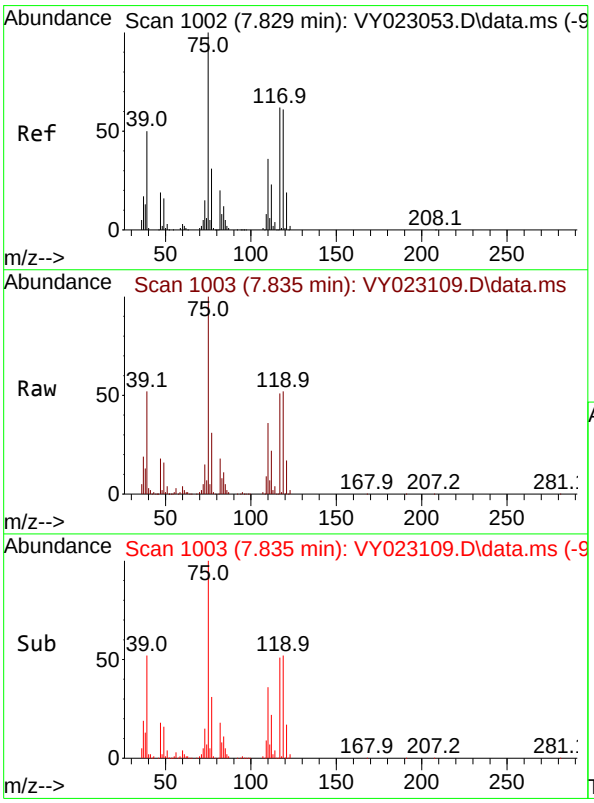

#35
Dibromofluoromethane
Concen: 50.660 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:113 Resp: 209862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.3 | 81.1 | 121.7 |
| 192 | 19.4 | 16.2 | 24.4 |

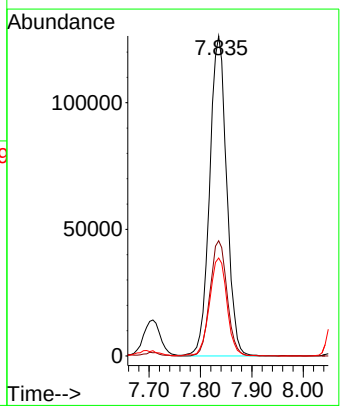


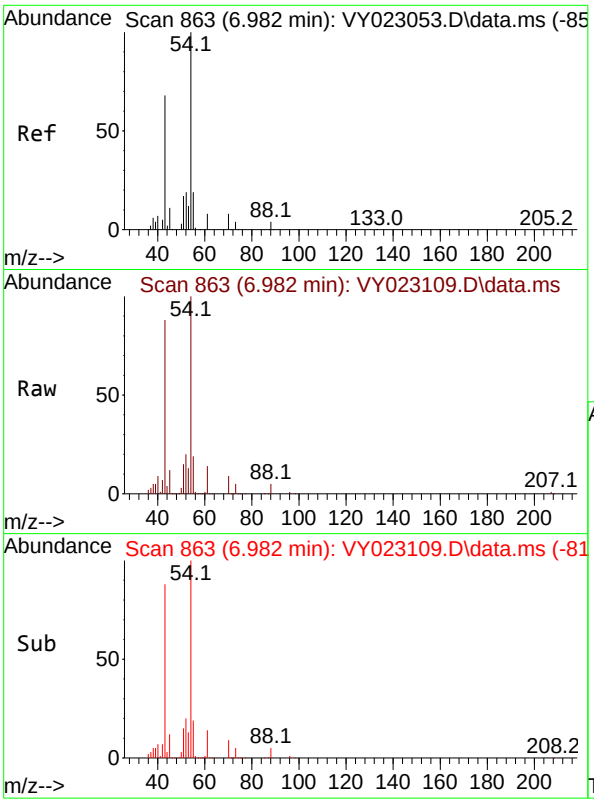




#36
1,1-Dichloropropene
Concen: 47.183 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 75 Resp: 290479

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 36.0 | 18.1 | 54.4 |
| 77 | 31.4 | 24.6 | 37.0 |



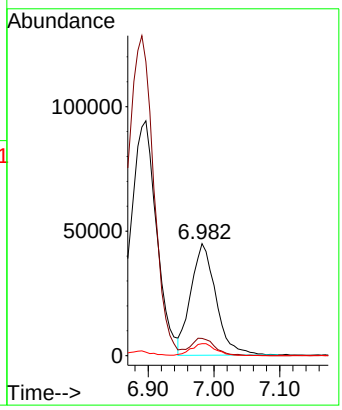


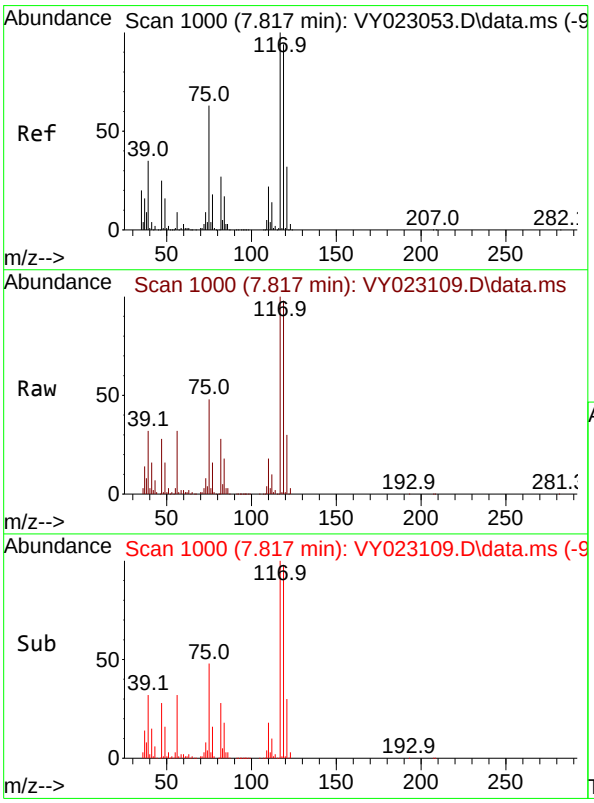

#37
Ethyl Acetate
Concen: 45.871 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 43 Resp: 118629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.9 | 11.9 | 17.9 |
| 70 | 10.4 | 8.8 | 13.2 |

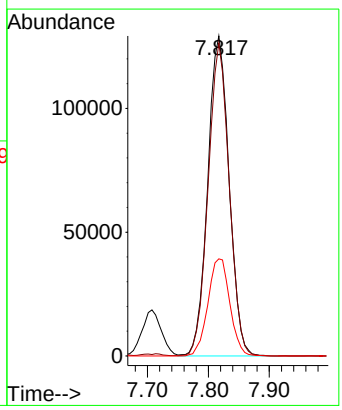


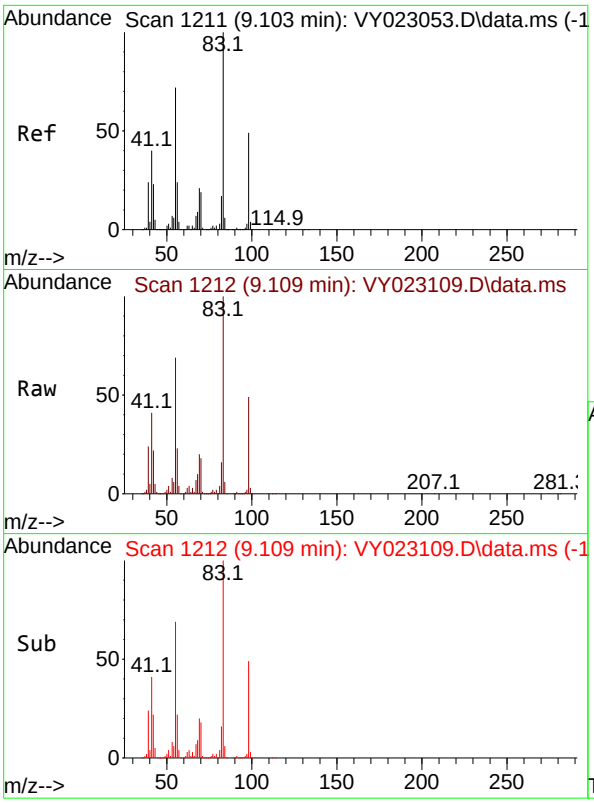




#38
Carbon Tetrachloride
Concen: 47.160 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:117 Resp: 315347

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 97.8 | 75.6 | 113.4 |
| 121 | 30.4 | 25.8 | 38.8 |



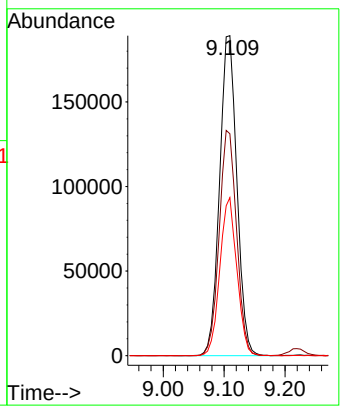


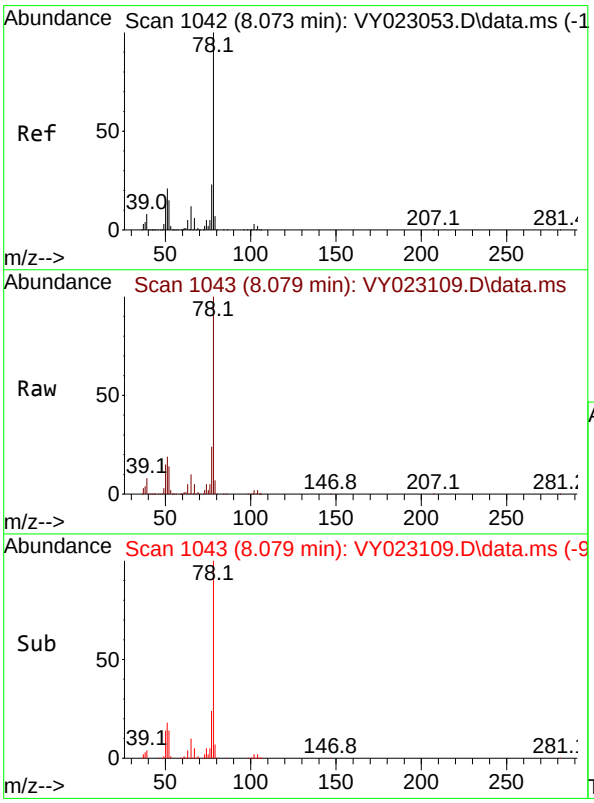

#39
Methylcyclohexane
Concen: 45.989 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 83 Resp: 372844

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 69.4 | 57.6 | 86.4 |
| 98 | 49.4 | 39.2 | 58.8 |

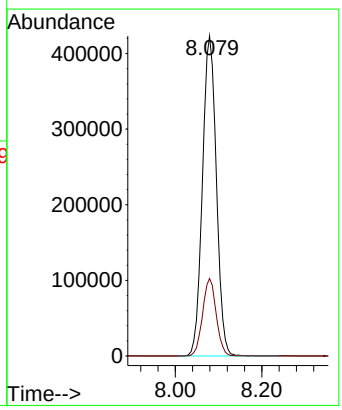


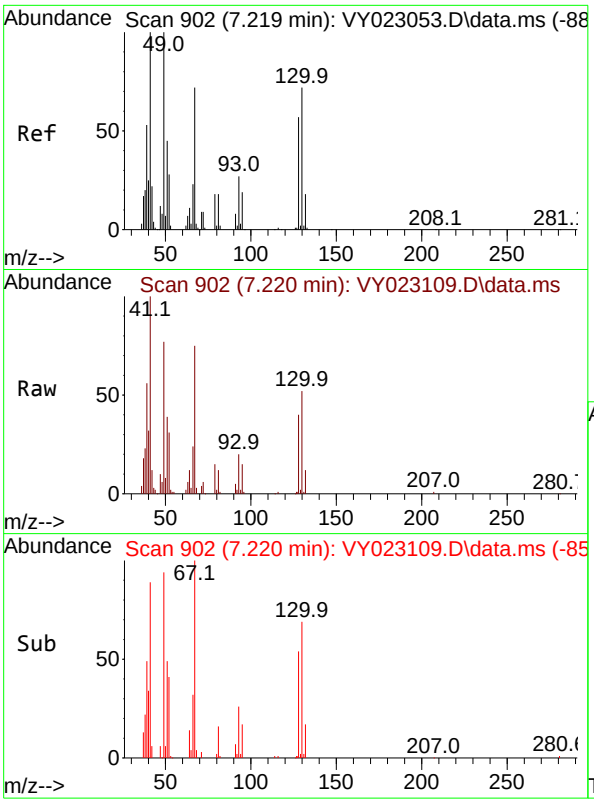




#40
Benzene
Concen: 49.676 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 78 Resp: 942603

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.2 | 18.6 | 28.0 |



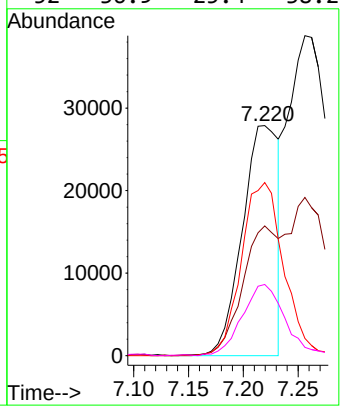


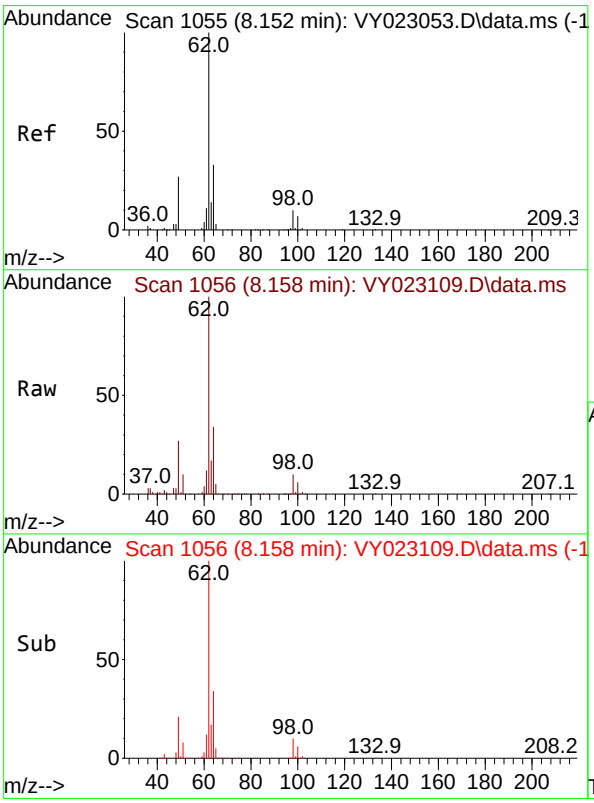

#41
Methacrylonitrile
Concen: 42.799 ug/l
RT: 7.220 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 41 Resp: 63879

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 55.6 | 43.4 | 65.2 |
| 67 | 88.2 | 63.6 | 95.4 |
| 52 | 36.9 | 25.4 | 38.2 |

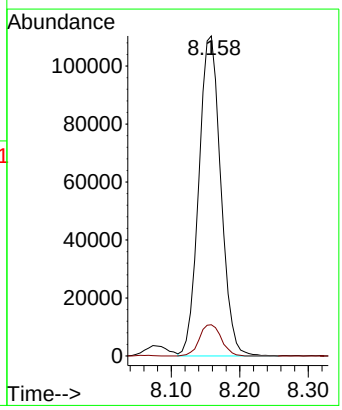


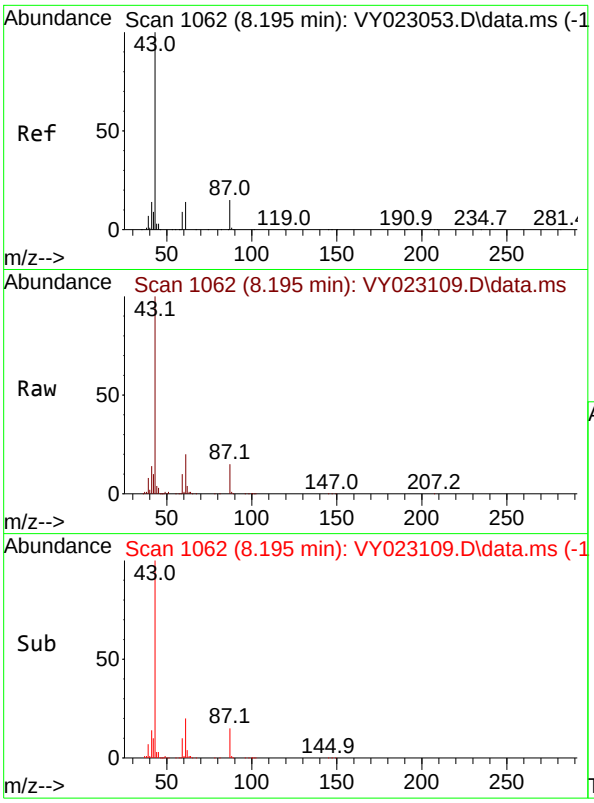




#42
1,2-Dichloroethane
Concen: 49.831 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 62 Resp: 245917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.8 | 0.0 | 20.6 |



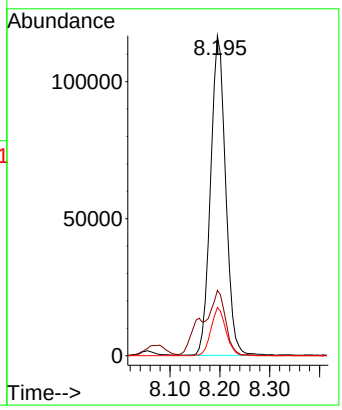


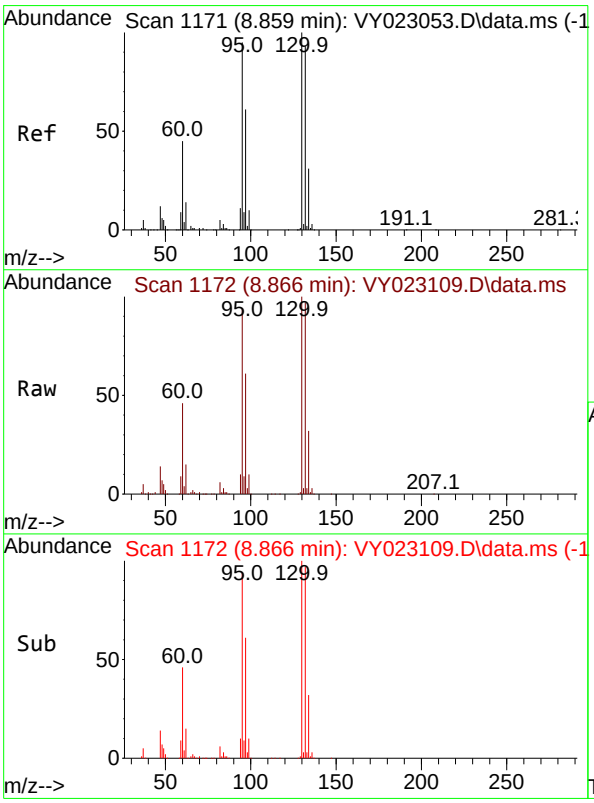

#43
Isopropyl Acetate
Concen: 46.911 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 43 Resp: 245206

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 20.6 | 16.4 | 24.6 |
| 87 | 14.9 | 11.8 | 17.6 |

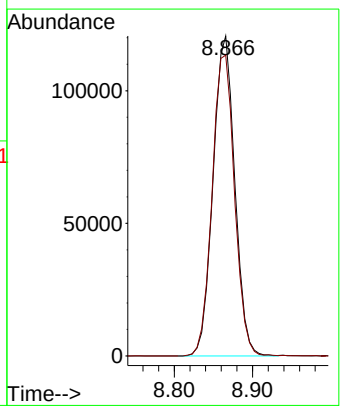


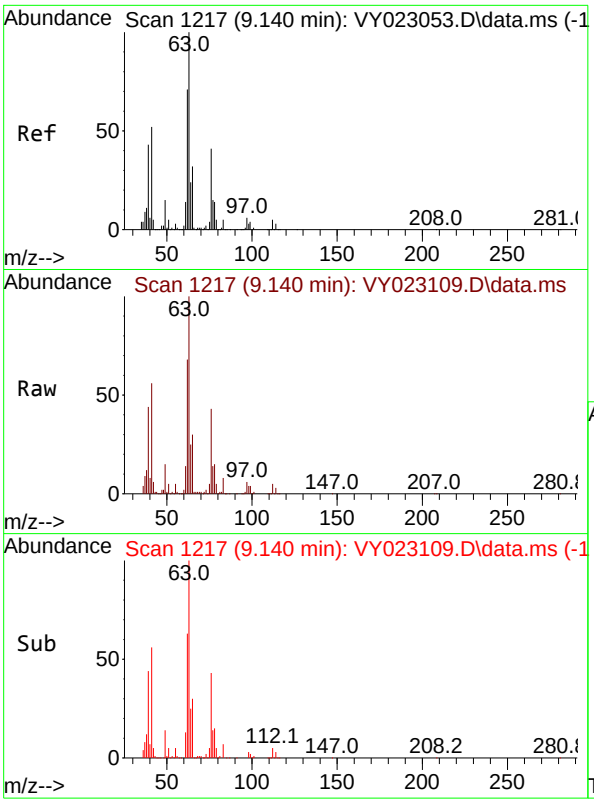




#44
Trichloroethene
Concen: 47.429 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:130 Resp: 232571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 94.0 | 0.0 | 190.2 |



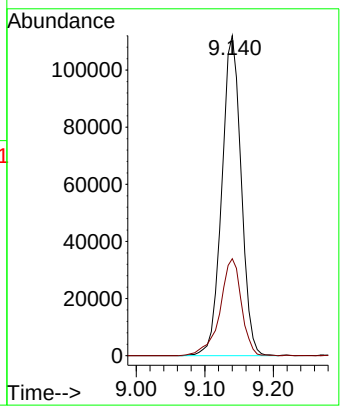


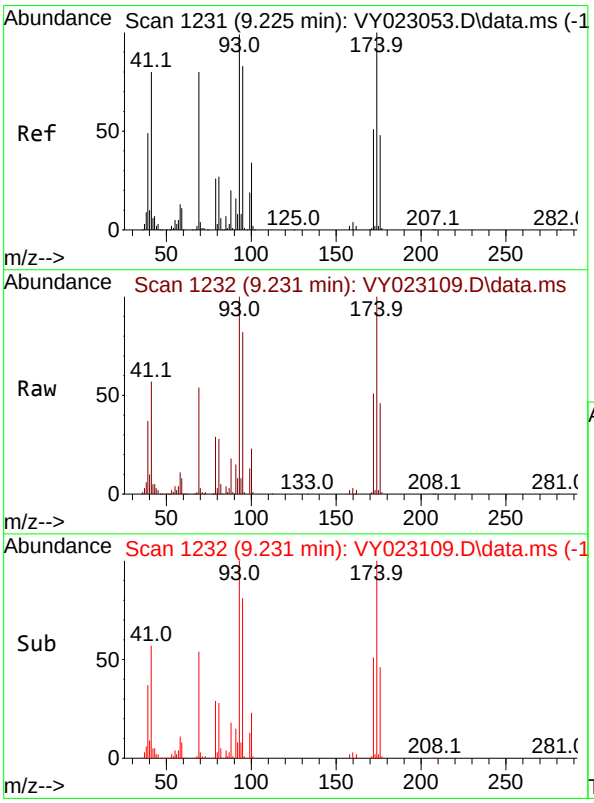

#45
1,2-Dichloropropane
Concen: 50.190 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 63 Resp: 219128

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.3 | 25.3 | 37.9 |

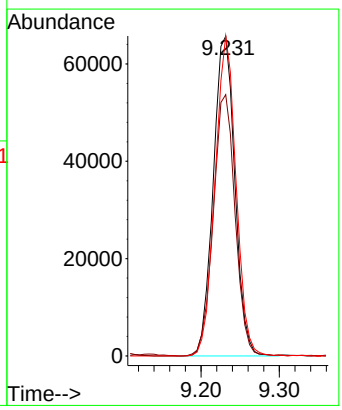


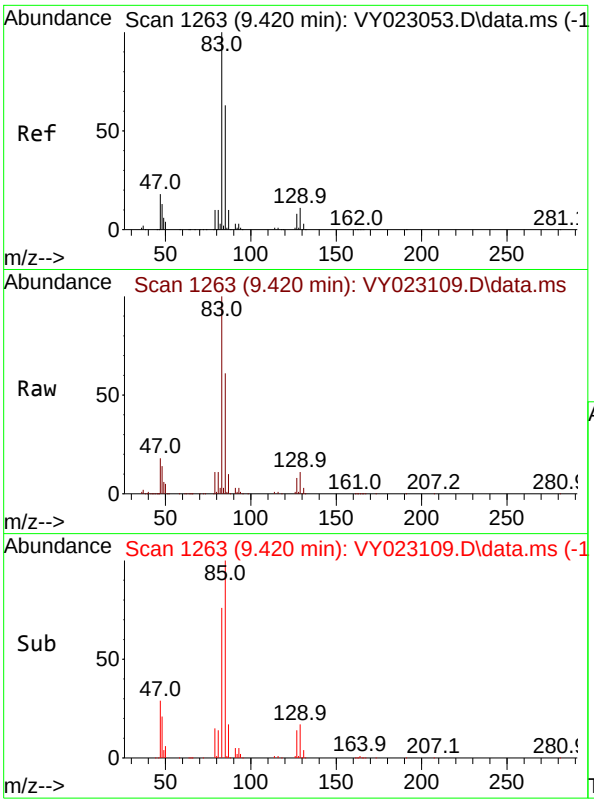




#46
Dibromomethane
Concen: 50.217 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 93 Resp: 125840

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.7 | 66.5 | 99.7 |
| 174 | 97.4 | 81.8 | 122.8 |



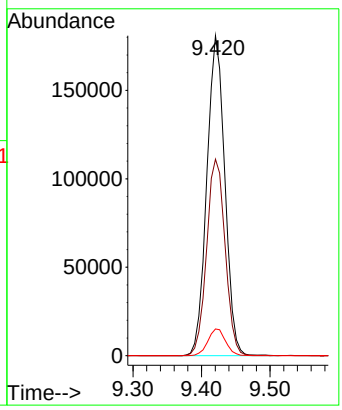


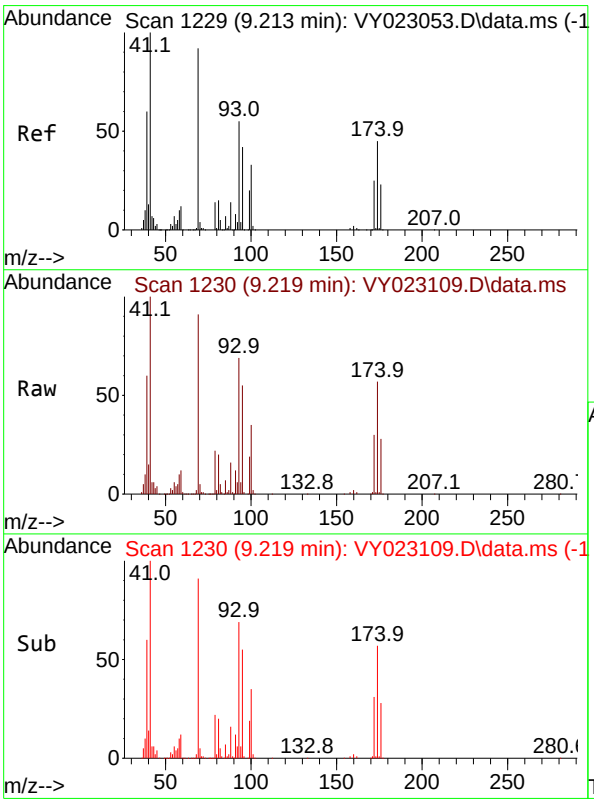

#47
Bromodichloromethane
Concen: 51.308 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 83 Resp: 330836

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 61.4 | 50.2 | 75.4 |
| 127 | 8.3 | 6.6 | 10.0 |

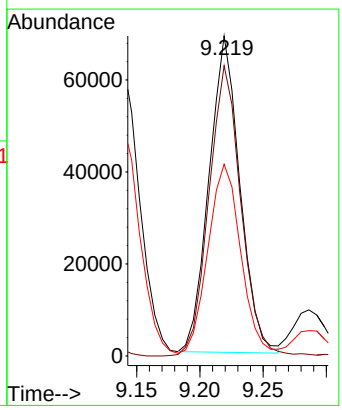


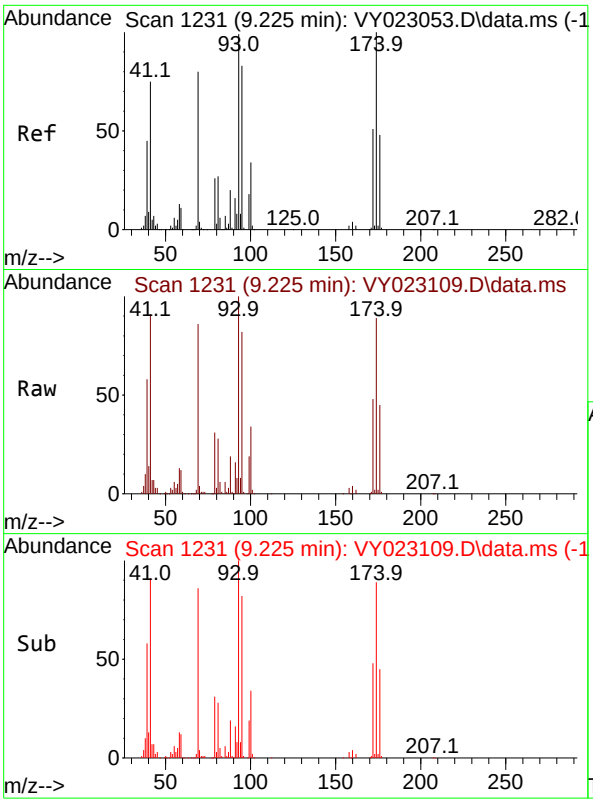




#48
Methyl methacrylate
Concen: 46.602 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 41 Resp: 116562

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 95.4 | 73.2 | 109.8 |
| 39 | 63.1 | 47.0 | 70.4 |



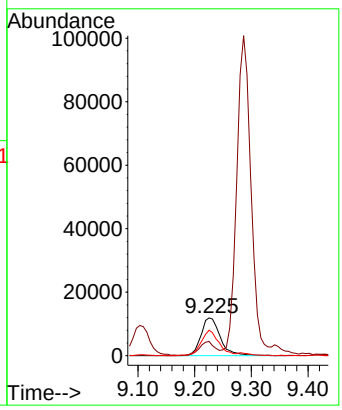


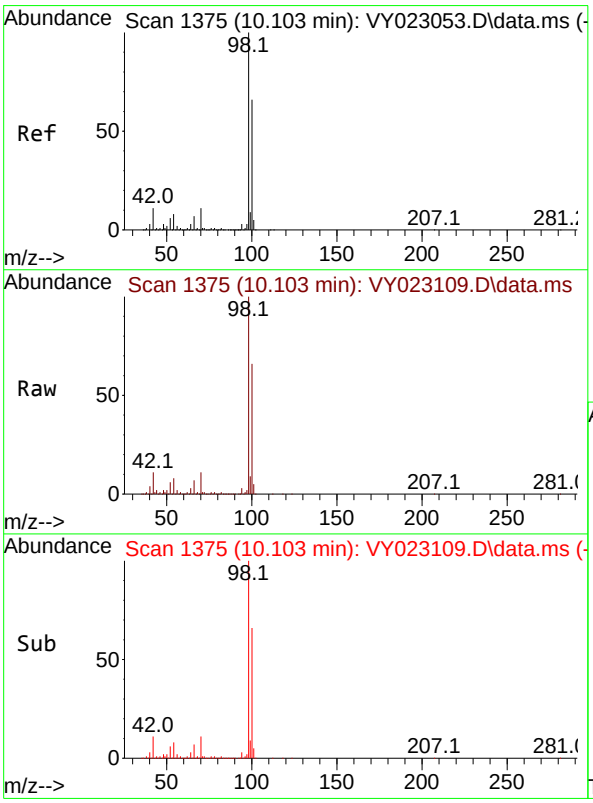

#49
1,4-Dioxane
Concen: 959.813 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 88 Resp: 28202

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 28.7 | 24.3 | 36.5 |
| 58 | 62.1 | 55.4 | 83.0 |

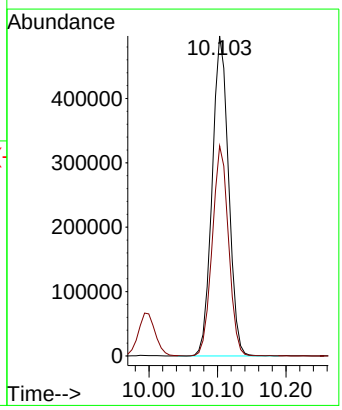


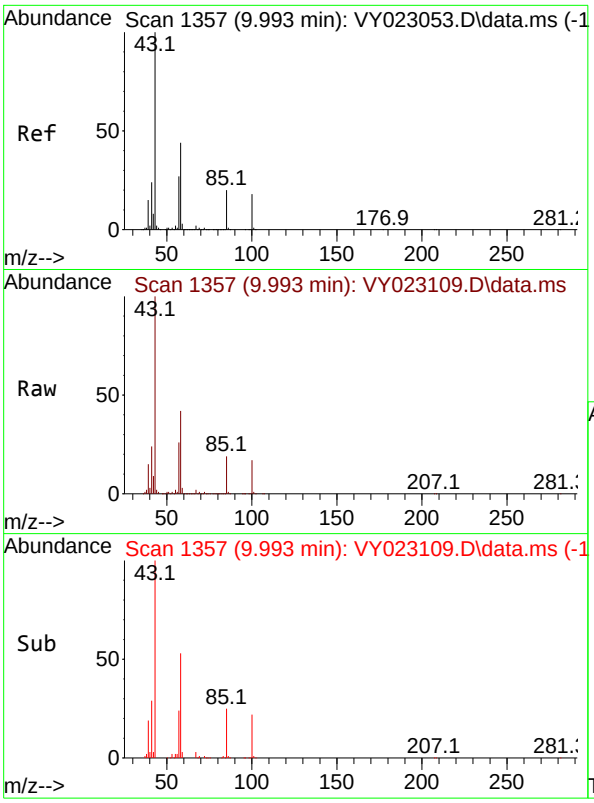




#50
Toluene-d8
Concen: 50.964 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 98 Resp: 824760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.2 | 52.3 | 78.5 |



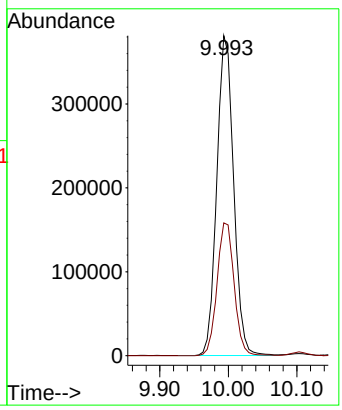


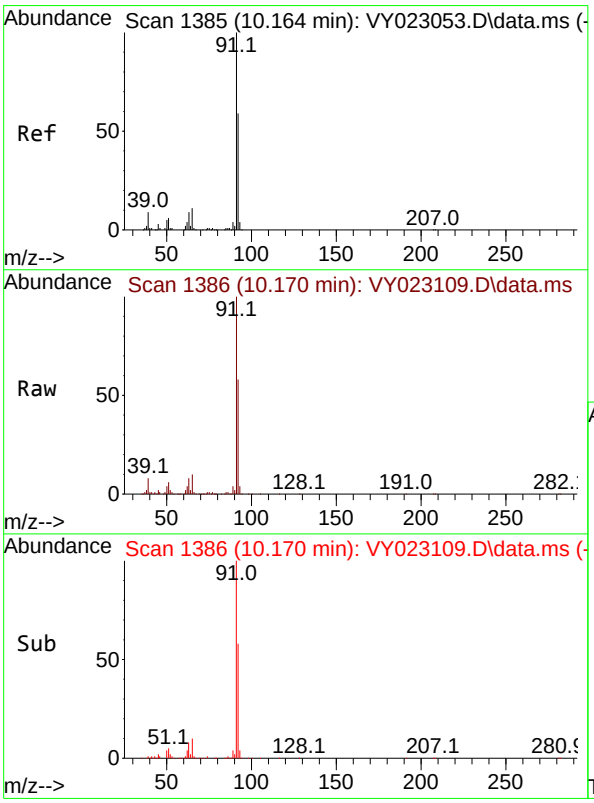

#51
4-Methyl-2-Pentanone
Concen: 240.407 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 43 Resp: 648196

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 42.2 | 33.5 | 50.3 |

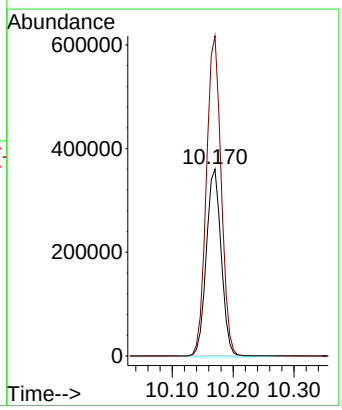


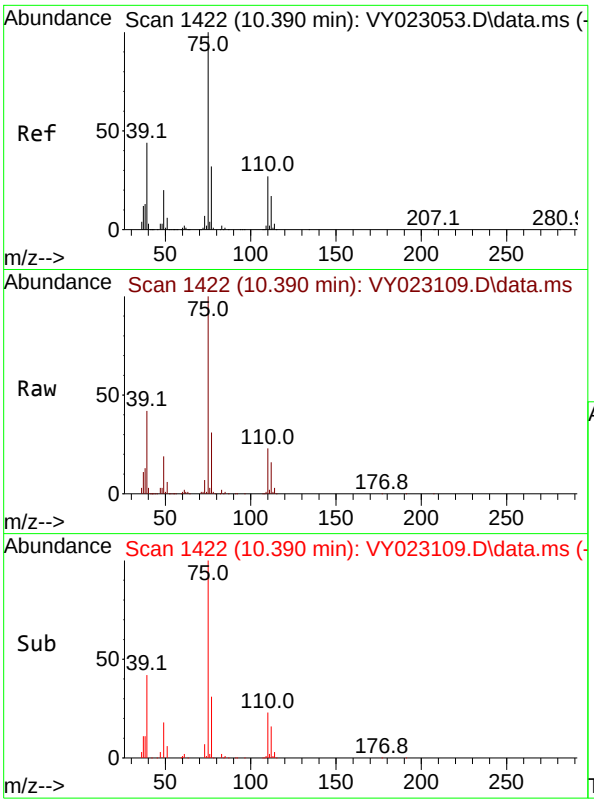




#52
Toluene
Concen: 50.491 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 92 Resp: 608495

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 171.0 | 136.4 | 204.6 |



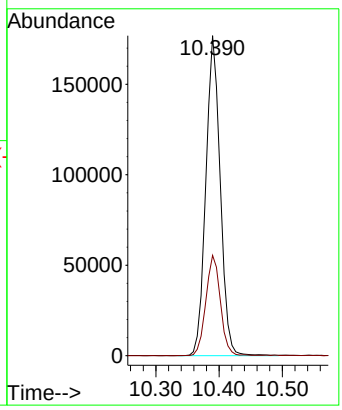


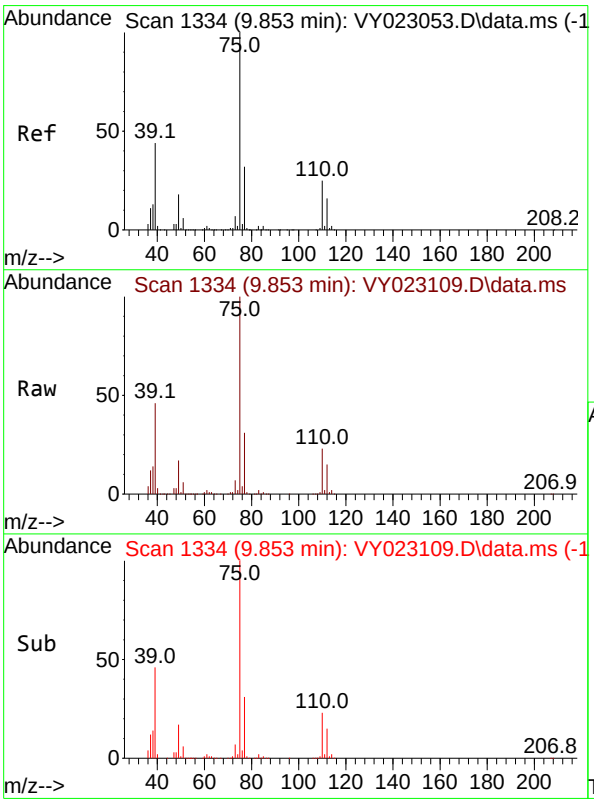

#53
t-1,3-Dichloropropene
Concen: 48.061 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 75 Resp: 280629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.3 | 25.7 | 38.5 |

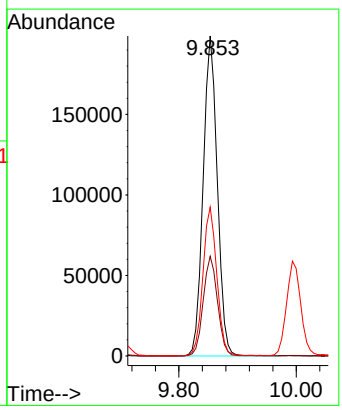


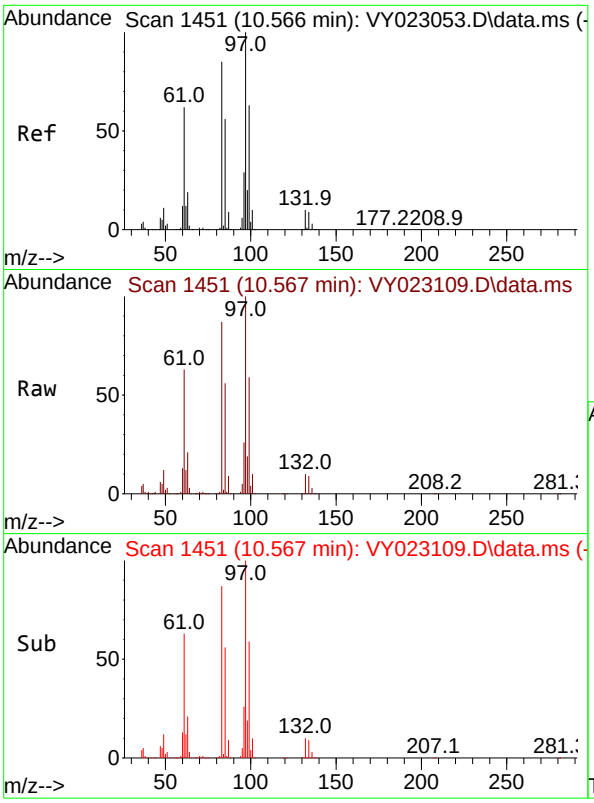




#54
cis-1,3-Dichloropropene
Concen: 48.260 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 75 Resp: 333217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.1 | 25.4 | 38.0 |
| 39 | 46.4 | 35.6 | 53.4 |



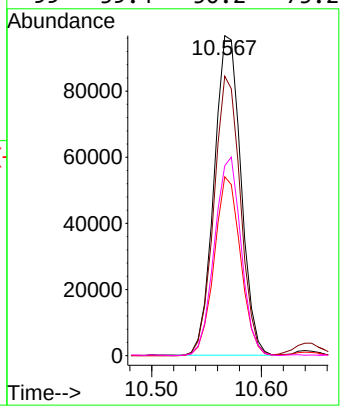


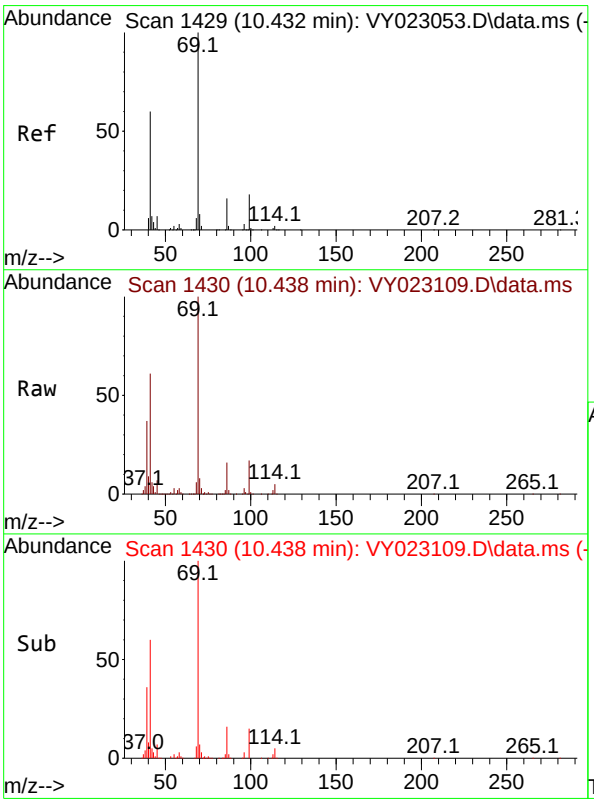

#55
1,1,2-Trichloroethane
Concen: 49.113 ug/l
RT: 10.567 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 97 Resp: 164684

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 87.5 | 67.7 | 101.5 |
| 85 | 56.0 | 44.5 | 66.7 |
| 99 | 59.4 | 50.2 | 75.2 |

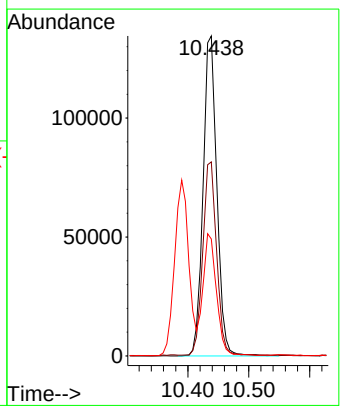


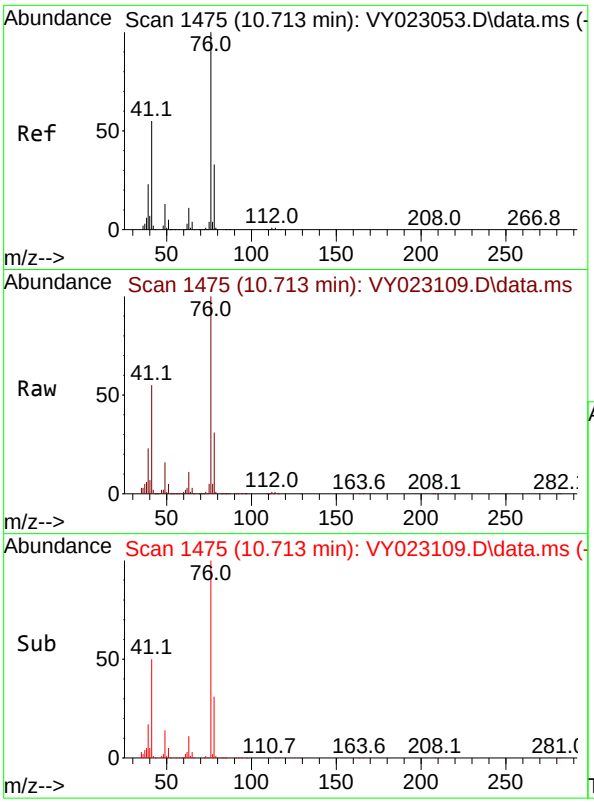




#56
Ethyl methacrylate
Concen: 49.346 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 69 Resp: 211730

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 60.3 | 48.6 | 72.8 |
| 39 | 37.1 | 27.0 | 40.4 |



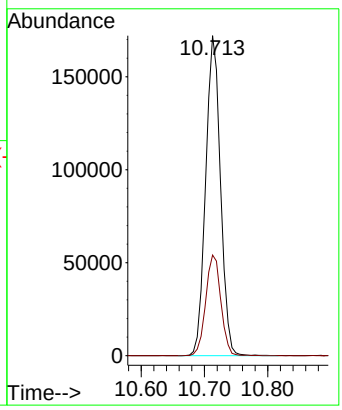


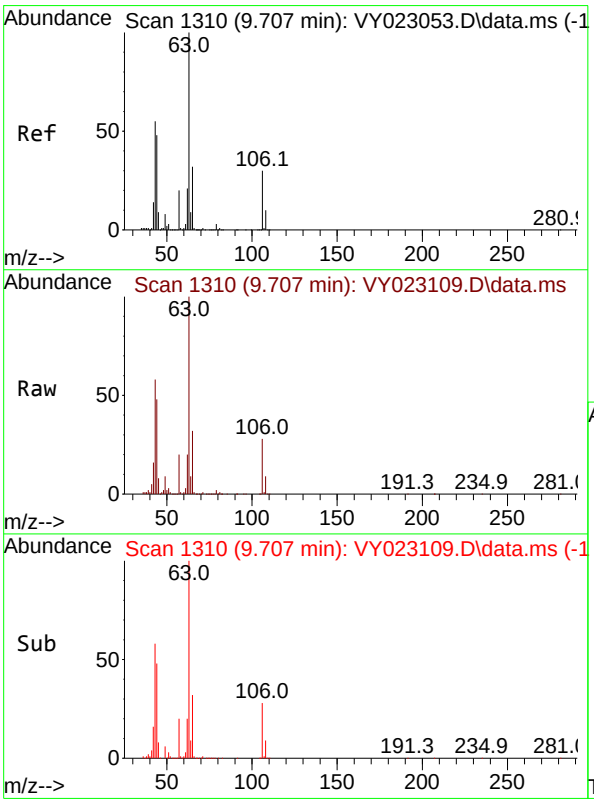

#57
1,3-Dichloropropane
Concen: 49.259 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 76 Resp: 280123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.2 | 26.0 | 39.0 |

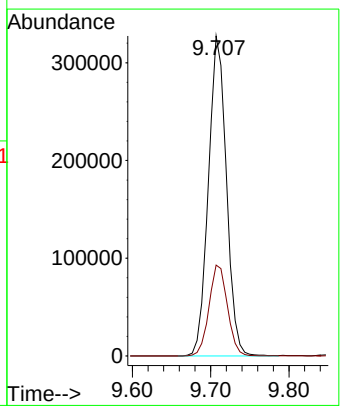


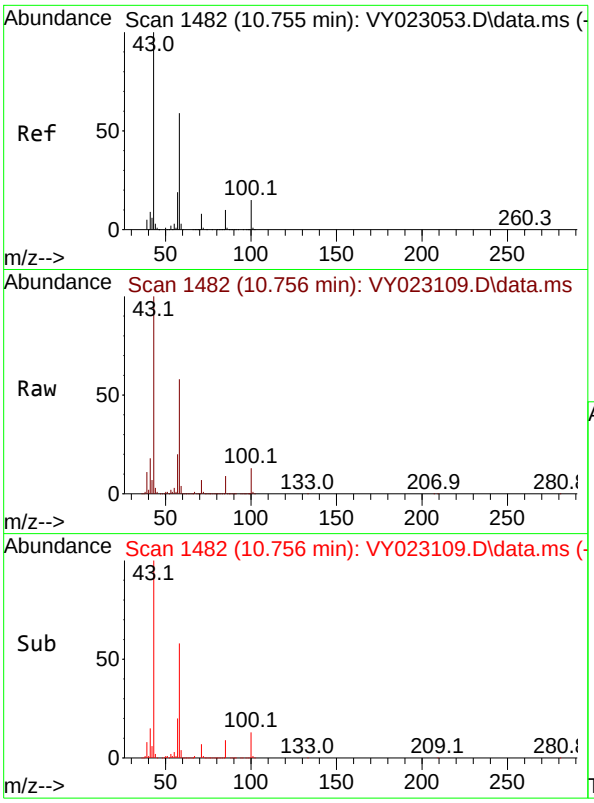




#58
2-Chloroethyl Vinyl ether
Concen: 258.207 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 63 Resp: 522597

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 29.1 | 23.2 | 34.8 |



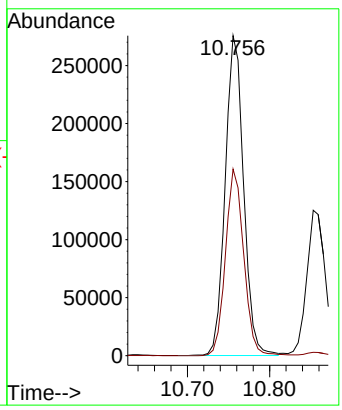


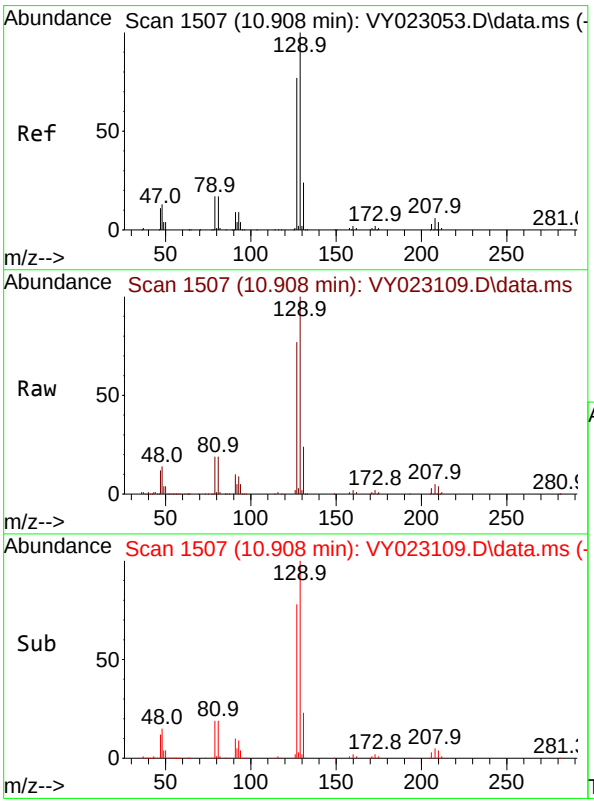

#59
2-Hexanone
Concen: 233.670 ug/l
RT: 10.756 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 43 Resp: 429008

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 58.2 | 29.5 | 88.5 |

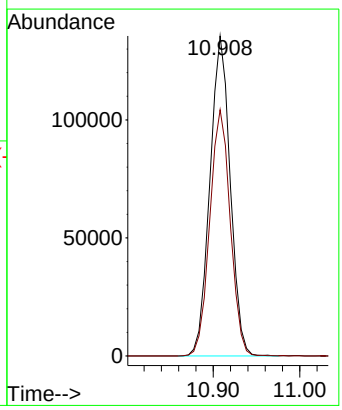


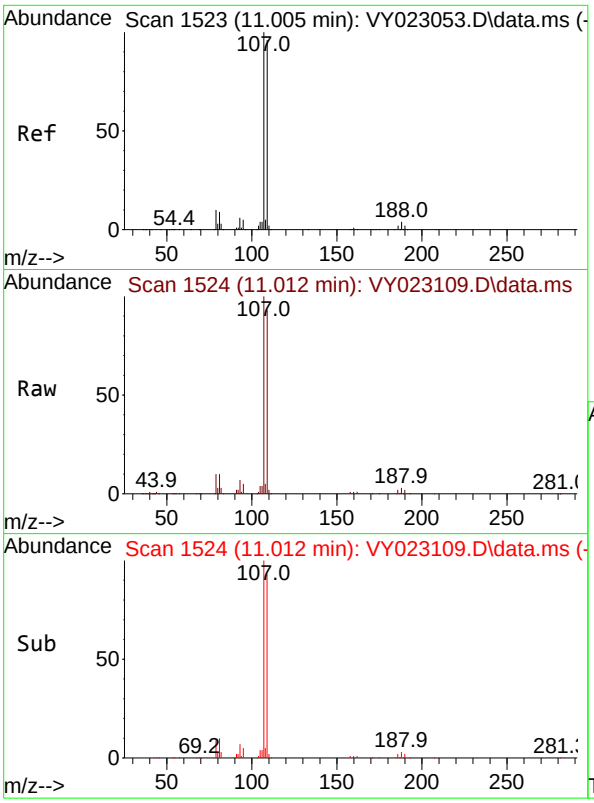




#60
Dibromochloromethane
Concen: 49.847 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:129 Resp: 220549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.7 | 38.5 | 115.5 |



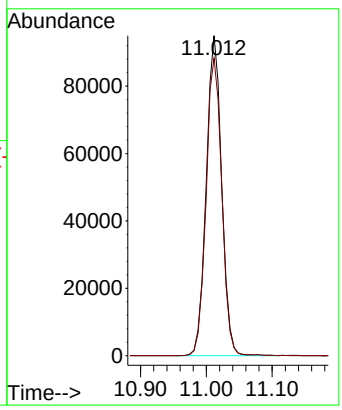


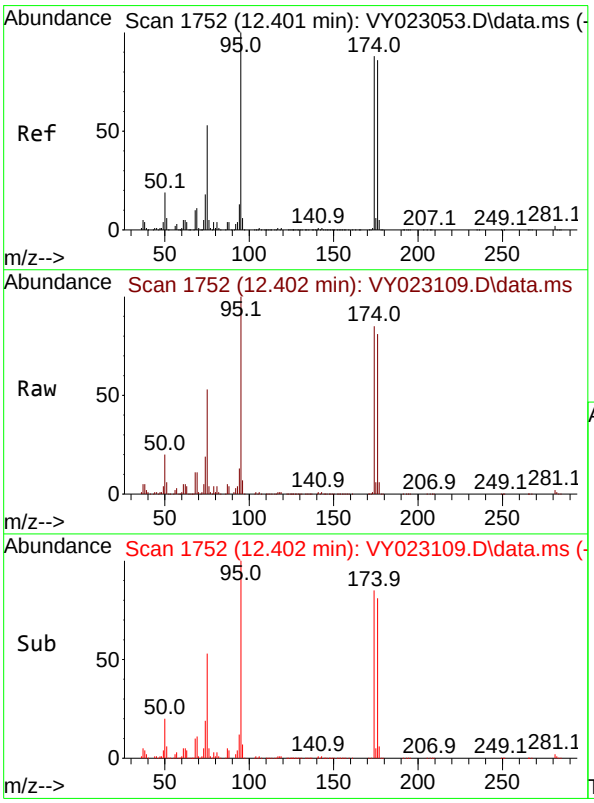

#61
1,2-Dibromoethane
Concen: 49.026 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:107 Resp: 154512

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.7 | 75.6 | 113.4 |

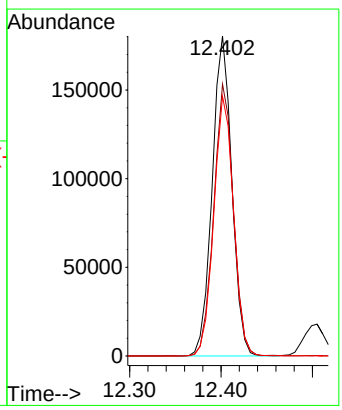


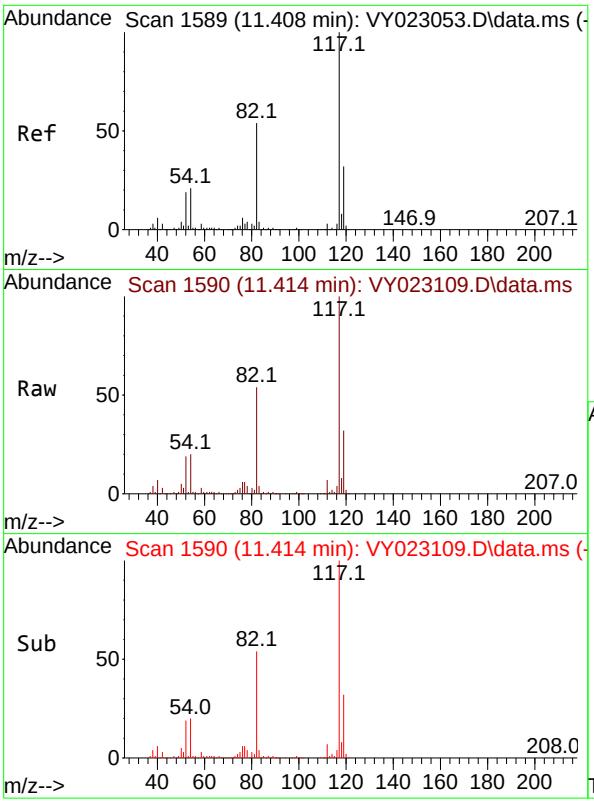




#62
4-Bromofluorobenzene
Concen: 51.660 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 95 Resp: 268864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 85.1 | 0.0 | 171.6 |
| 176 | 81.8 | 0.0 | 167.6 |



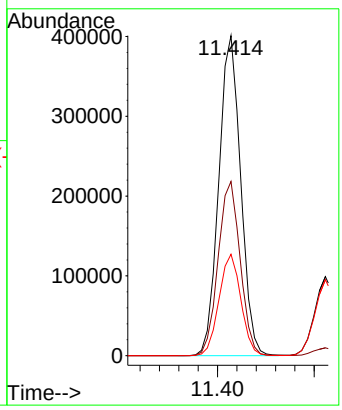


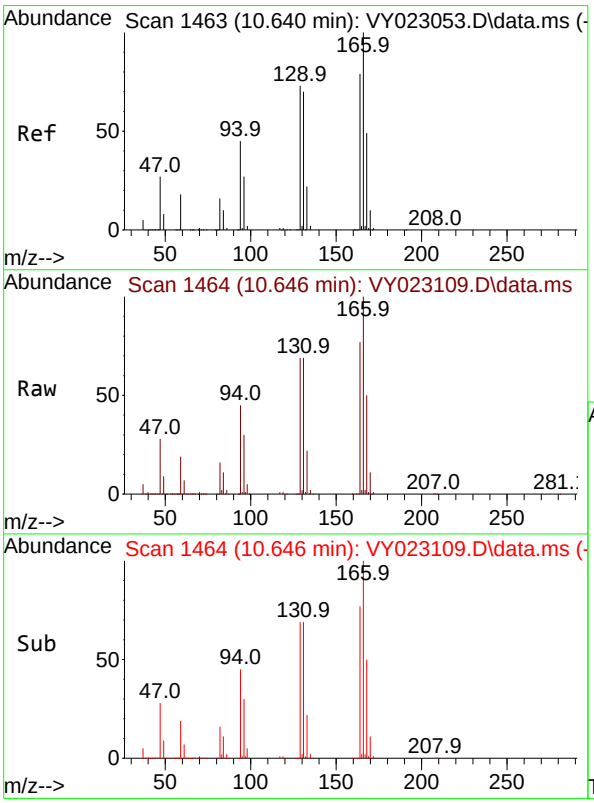

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:117 Resp: 629047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.4 | 43.4 | 65.0 |
| 119 | 31.7 | 25.6 | 38.4 |

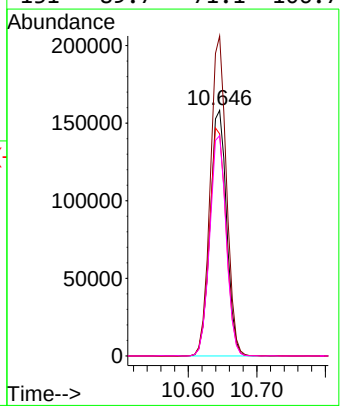


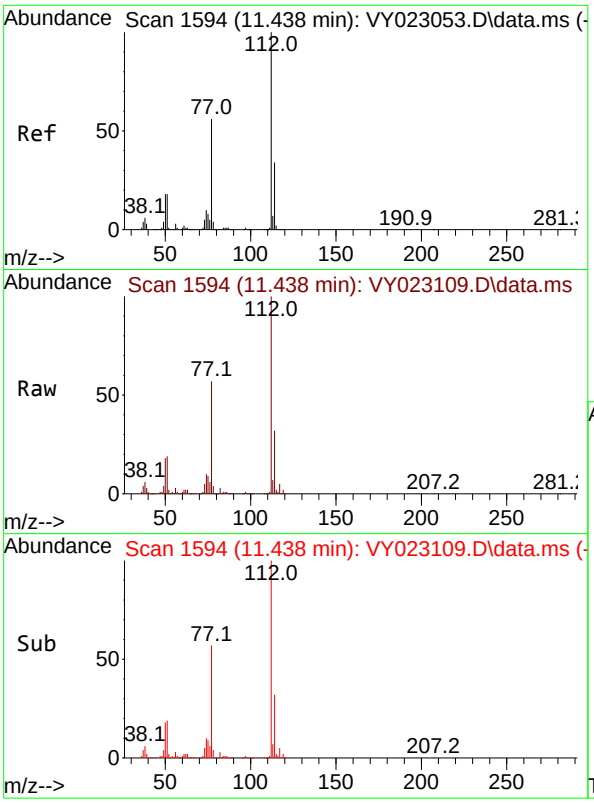




#64
Tetrachloroethene
Concen: 47.178 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:164 Resp: 264997

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 130.3 | 101.1 | 151.7 |
| 129 | 90.4 | 74.0 | 111.0 |
| 131 | 89.7 | 71.1 | 106.7 |



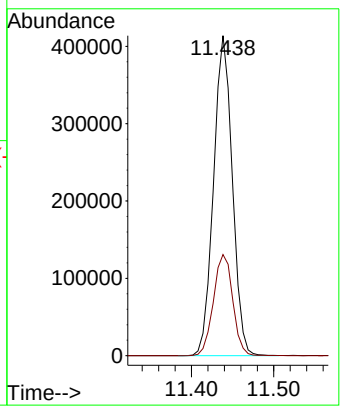


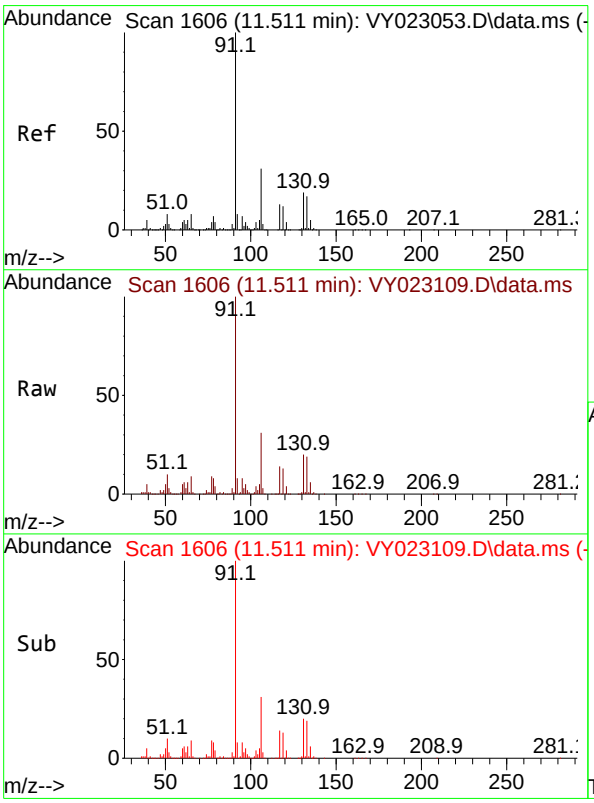

#65
Chlorobenzene
Concen: 48.335 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:112 Resp: 655836

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.6 | 27.0 | 40.4 |

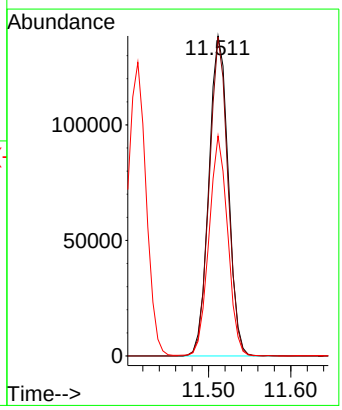


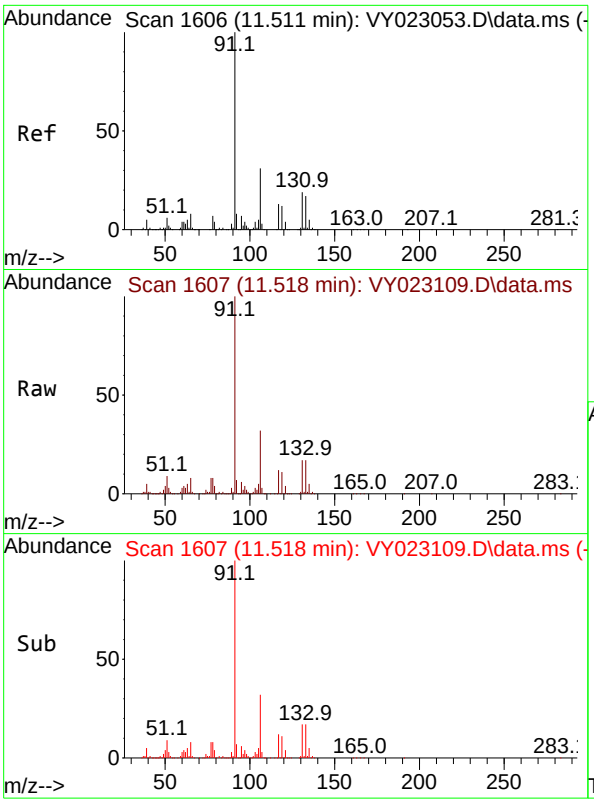




#66
1,1,1,2-Tetrachloroethane
Concen: 49.184 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:131 Resp: 226496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 96.0 | 46.9 | 140.6 |
| 119 | 66.5 | 33.2 | 99.6 |



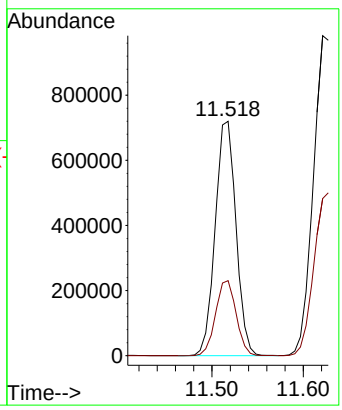


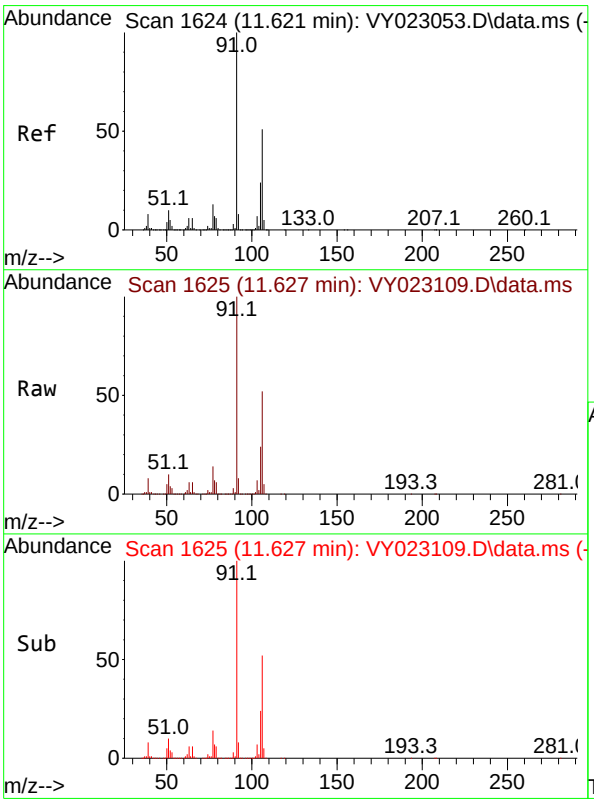

#67
Ethyl Benzene
Concen: 48.775 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 91 Resp: 1138907

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 32.0 | 25.0 | 37.4 |

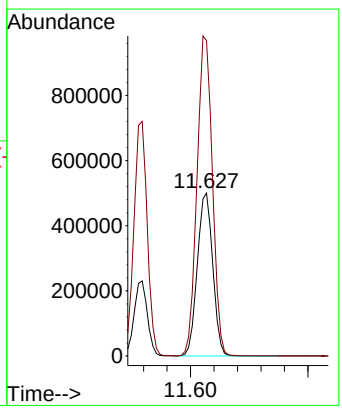


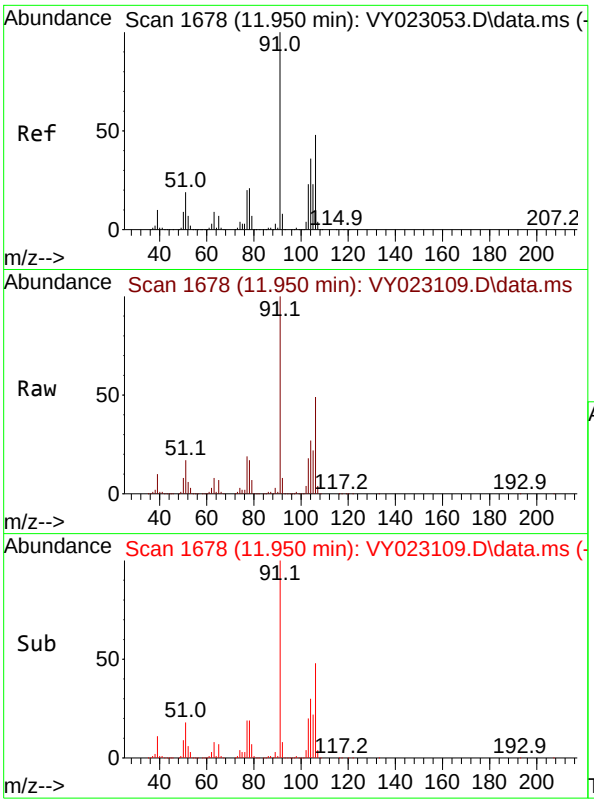




#68
m/p-Xylenes
Concen: 99.829 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:106 Resp: 910415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 196.9 | 158.6 | 238.0 |



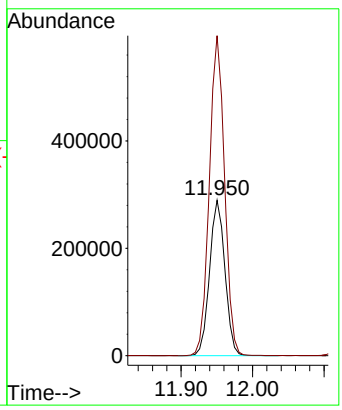


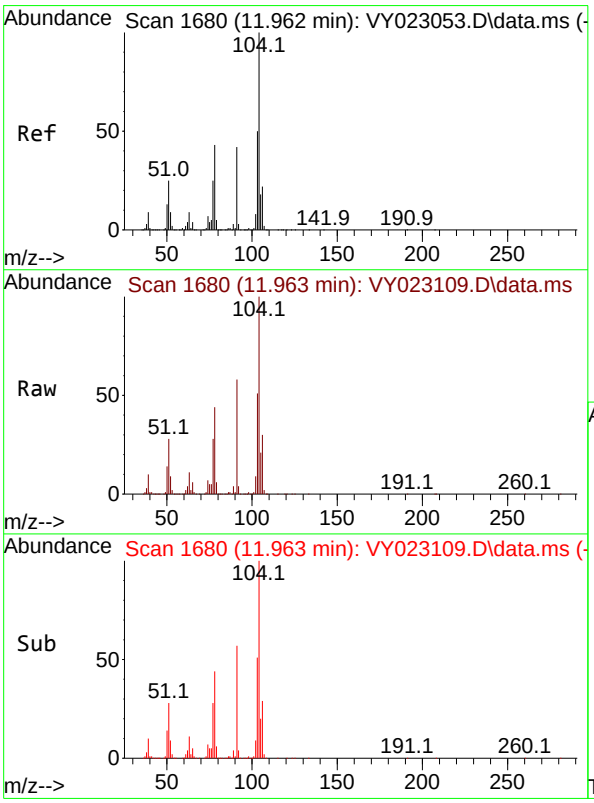

#69
o-Xylene
Concen: 50.504 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:106 Resp: 431382

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 204.3 | 103.2 | 309.4 |

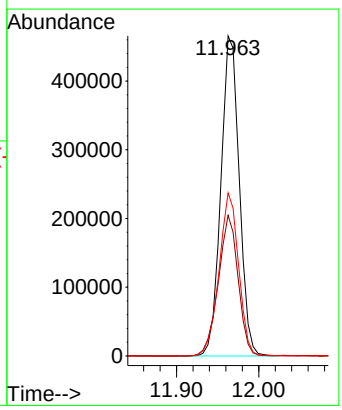


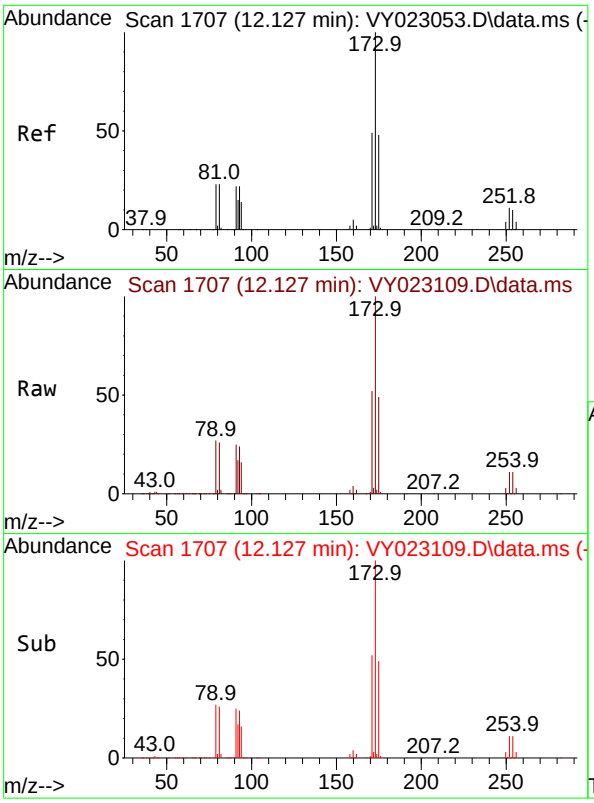




#70
Styrene
Concen: 51.783 ug/l
RT: 11.963 min Scan# 1680
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:104 Resp: 723332

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 47.3 | 38.5 | 57.7 |
| 103 | 54.1 | 43.7 | 65.5 |



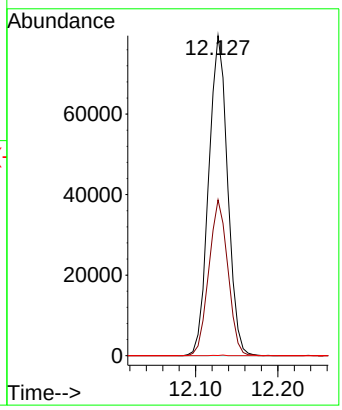


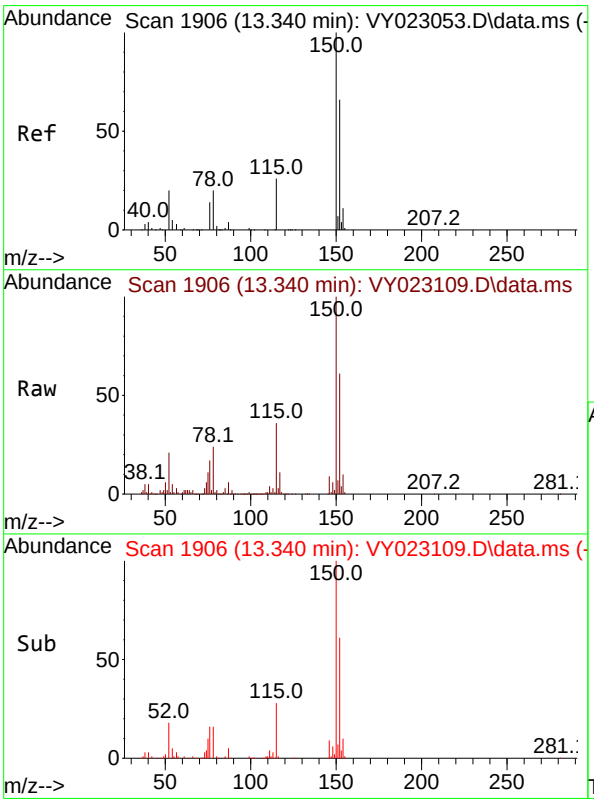

#71
Bromoform
Concen: 47.255 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:173 Resp: 127183

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.9 | 23.9 | 71.7 |
| 254 | 0.1 | 0.1 | 0.1 |

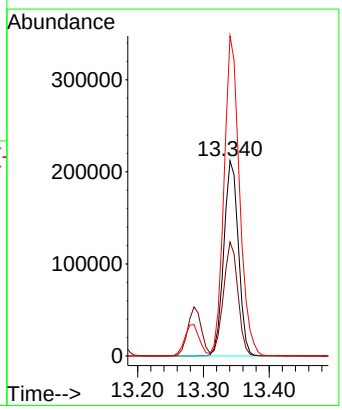


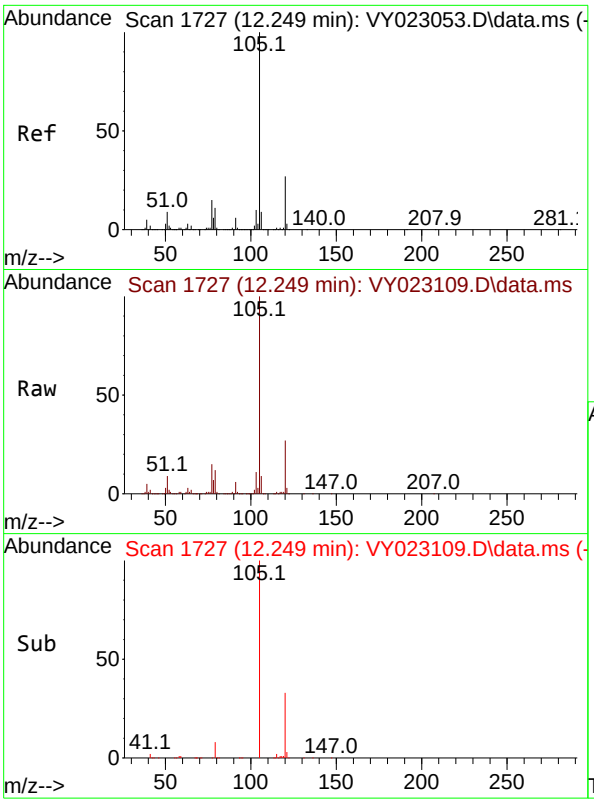




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:152 Resp: 327747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.7 | 28.2 | 84.6 |
| 150 | 173.7 | 0.0 | 348.0 |



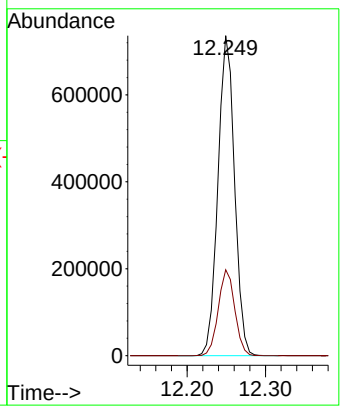


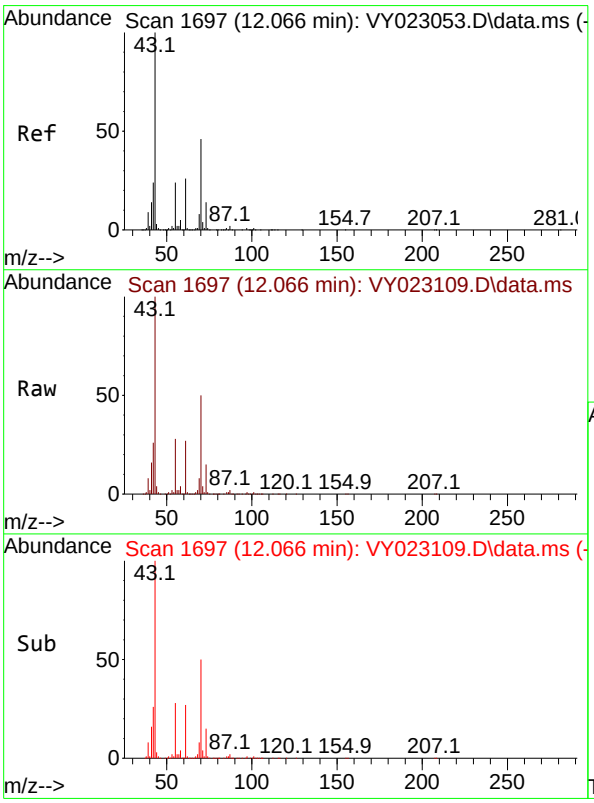

#73
Isopropylbenzene
Concen: 46.938 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:105 Resp: 1085768

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.6 | 13.4 | 40.2 |

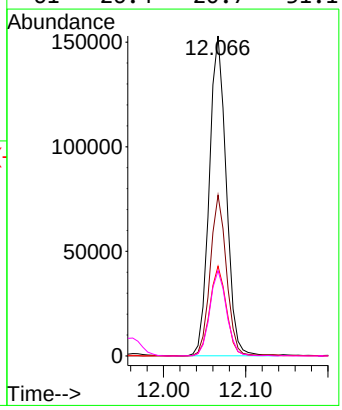


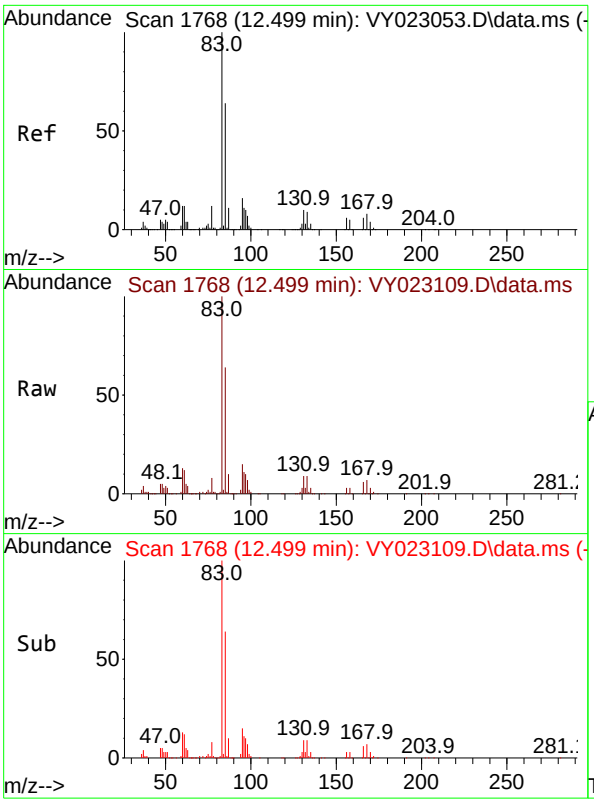




#74
N-amyl acetate
Concen: 44.606 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 43 Resp: 218818

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 48.4 | 37.5 | 56.3 |
| 55 | 27.2 | 20.7 | 31.1 |
| 61 | 26.4 | 20.7 | 31.1 |



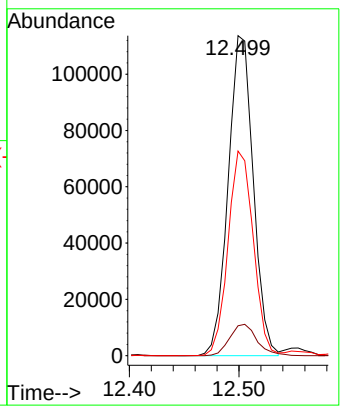


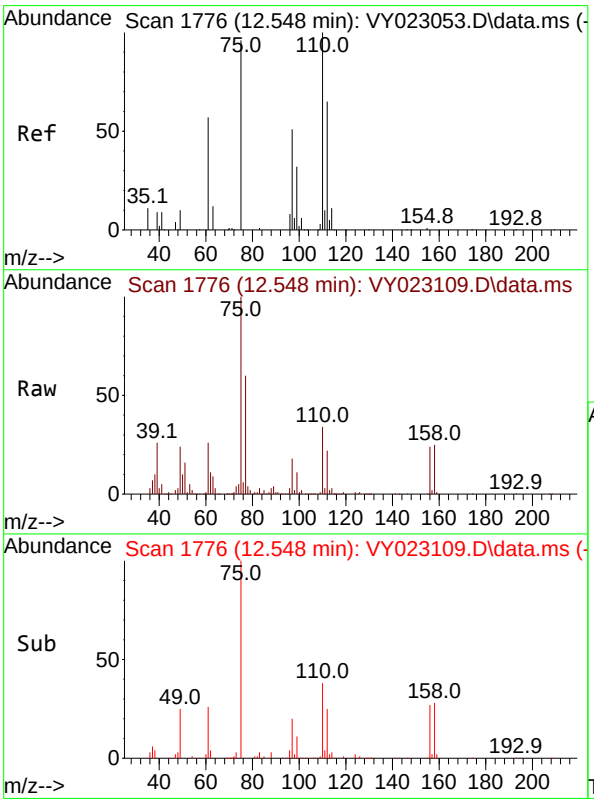

#75
1,1,2,2-Tetrachloroethane
Concen: 45.802 ug/l
RT: 12.499 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 83 Resp: 180905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.6 | 5.1 | 15.3 |
| 85 | 64.5 | 31.8 | 95.3 |

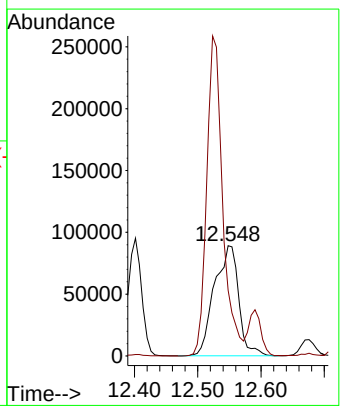


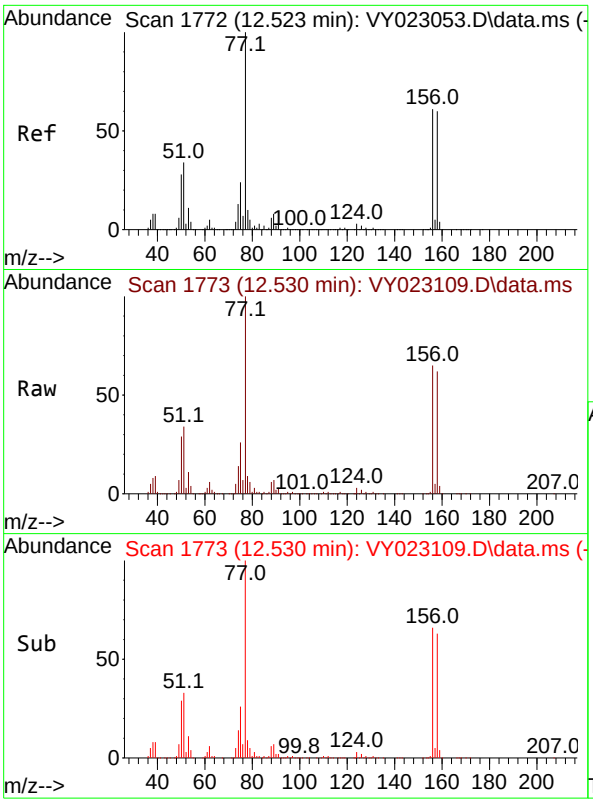




#76
1,2,3-Trichloropropane
Concen: 74.861 ug/l
RT: 12.548 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 75 Resp: 236792

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |



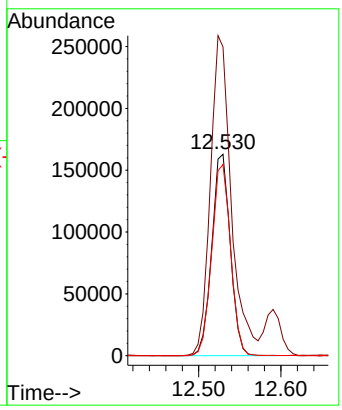


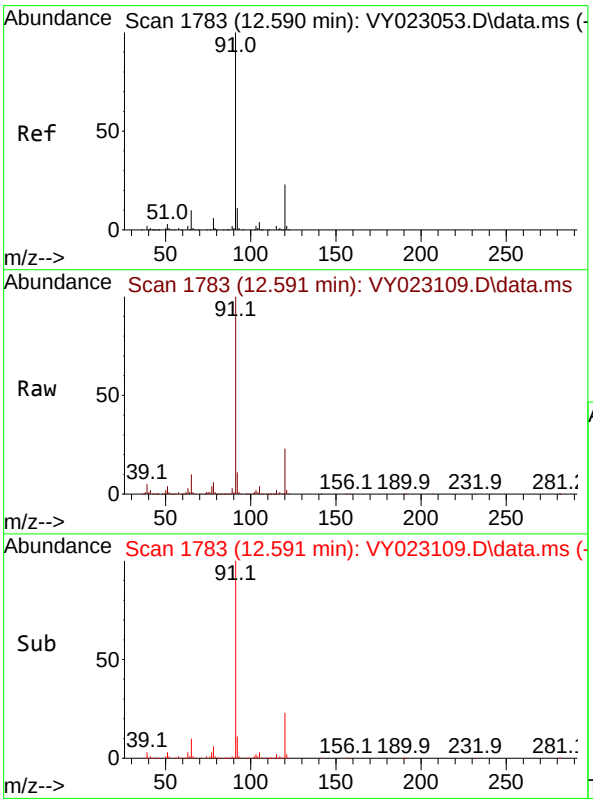

#77
Bromobenzene
Concen: 46.165 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:156 Resp: 254766

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 179.4 | 88.1 | 264.4 |
| 158 | 96.6 | 48.0 | 144.0 |

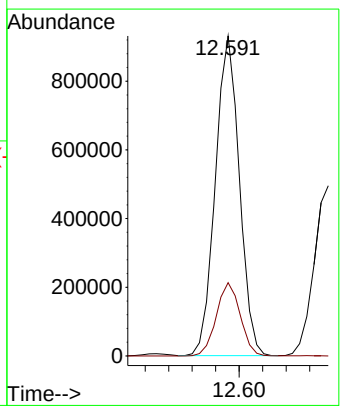


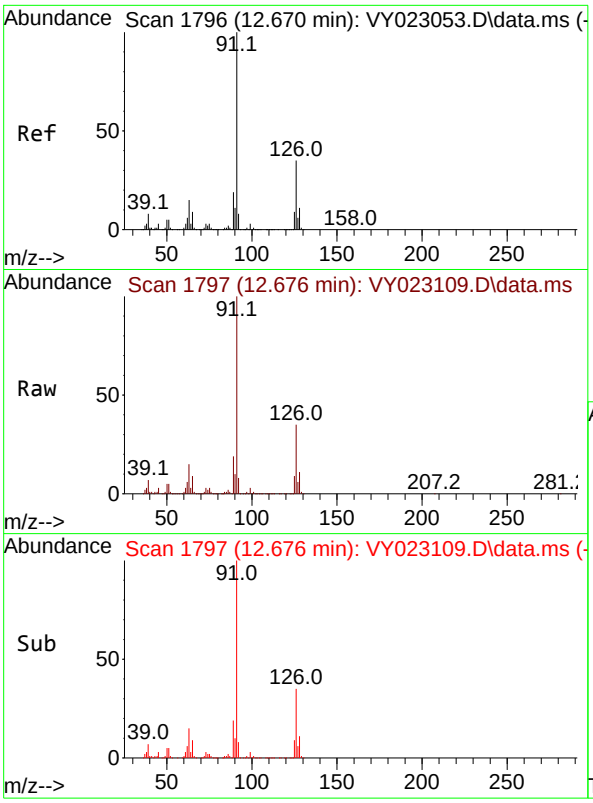




#78
n-propylbenzene
Concen: 47.987 ug/l
RT: 12.591 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 91 Resp: 1321560

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.8 | 11.5 | 34.5 |



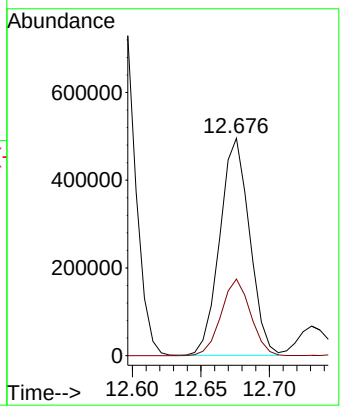


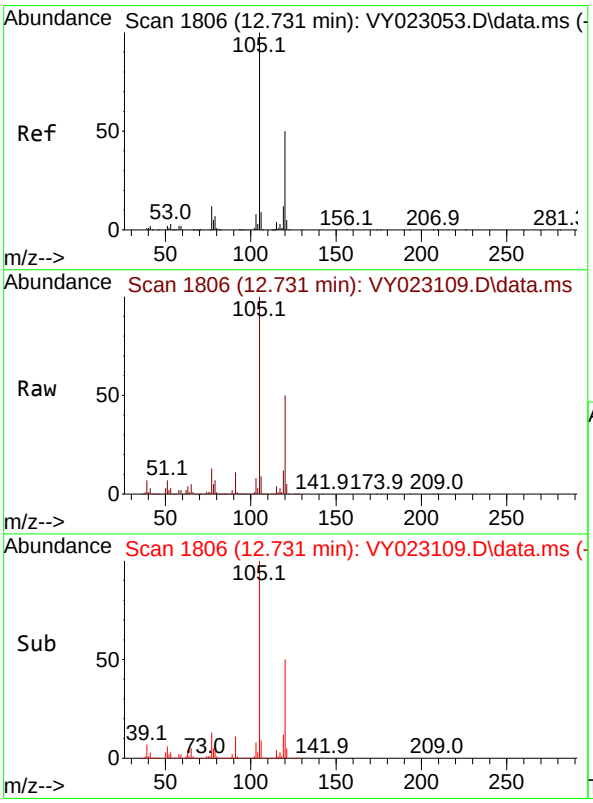

#79
2-Chlorotoluene
Concen: 47.529 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 91 Resp: 749983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.7 | 17.4 | 52.3 |

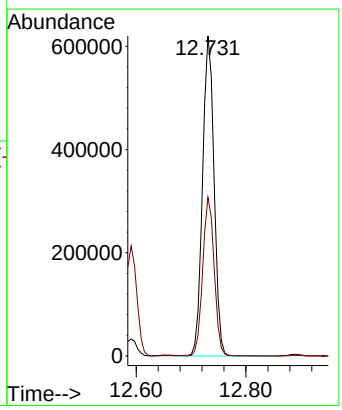


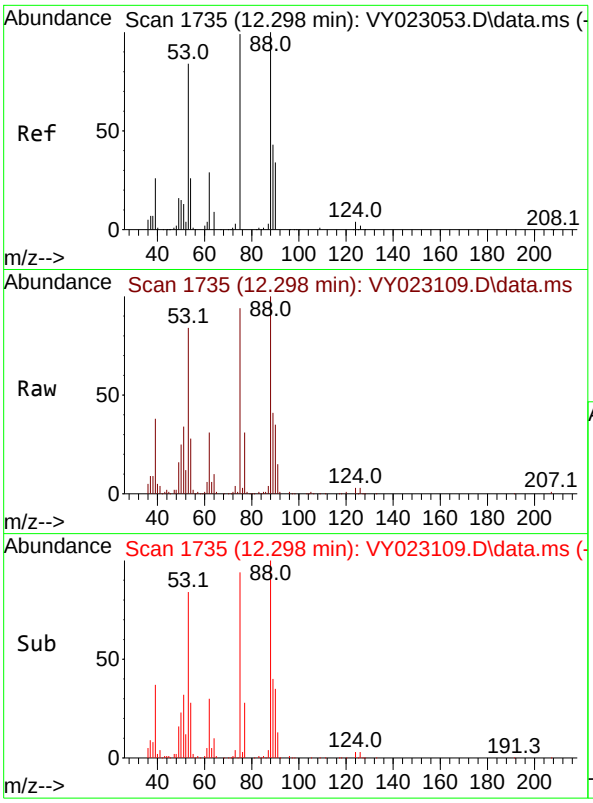




#80
1,3,5-Trimethylbenzene
Concen: 48.207 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:105 Resp: 901239

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.5 | 24.8 | 74.4 |



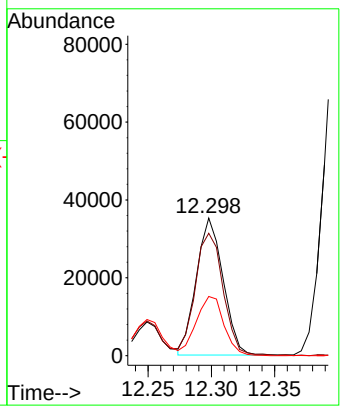


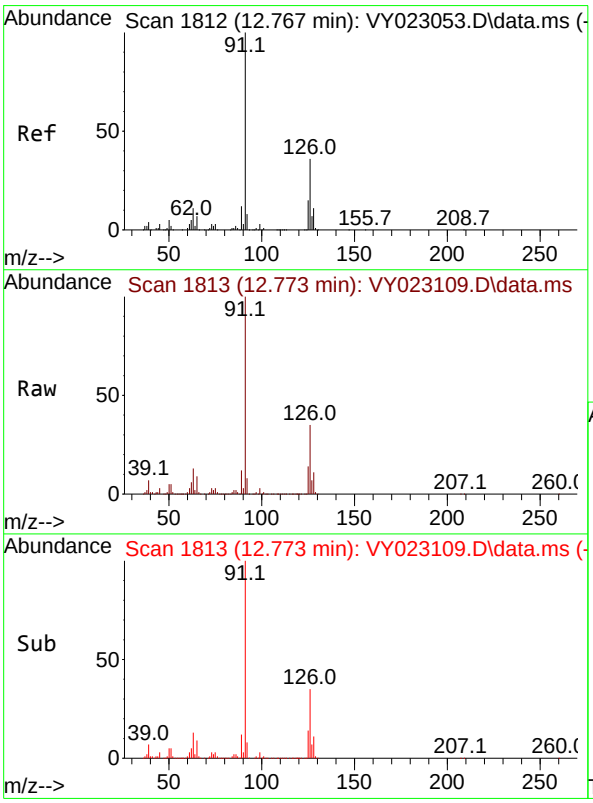

#81
trans-1,4-Dichloro-2-butene
Concen: 39.770 ug/l
RT: 12.298 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 75 Resp: 51968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 94.6 | 70.8 | 106.2 |
| 89 | 44.8 | 38.1 | 57.1 |

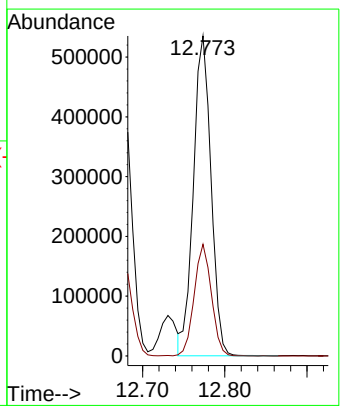


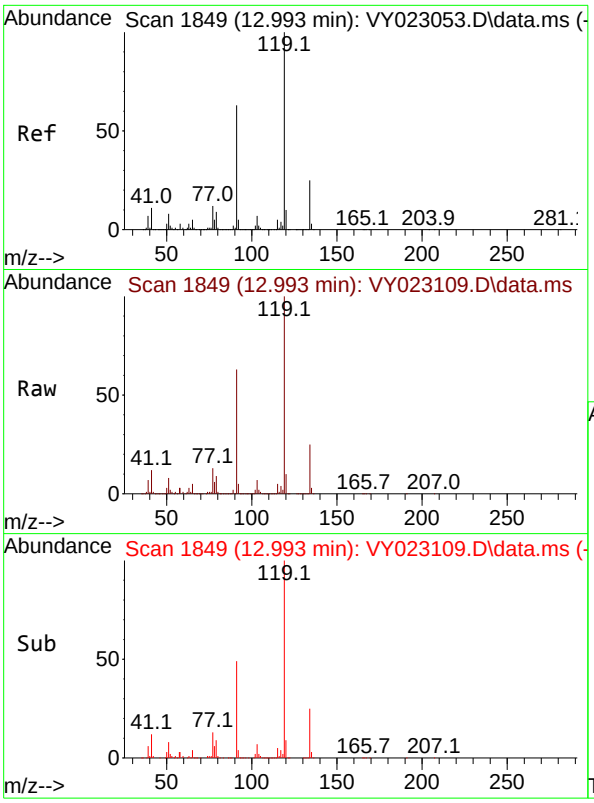




#82
4-Chlorotoluene
Concen: 48.521 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 91 Resp: 794254

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.2 | 17.3 | 52.0 |



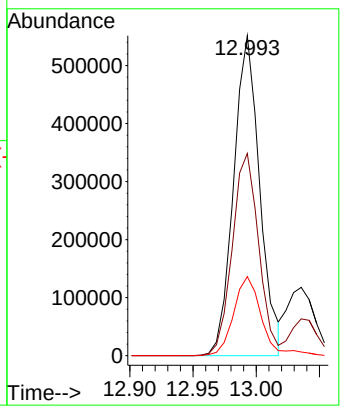


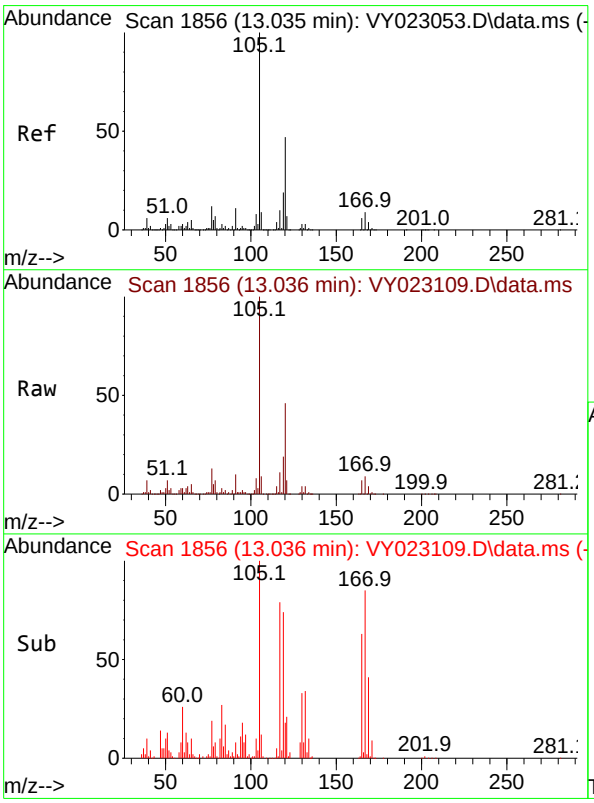

#83
tert-Butylbenzene
Concen: 47.072 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:119 Resp: 794810

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 63.6 | 31.6 | 94.8 |
| 134 | 26.3 | 12.9 | 38.7 |

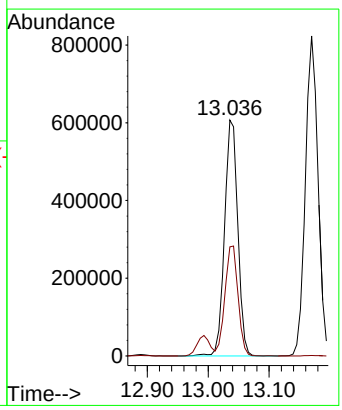


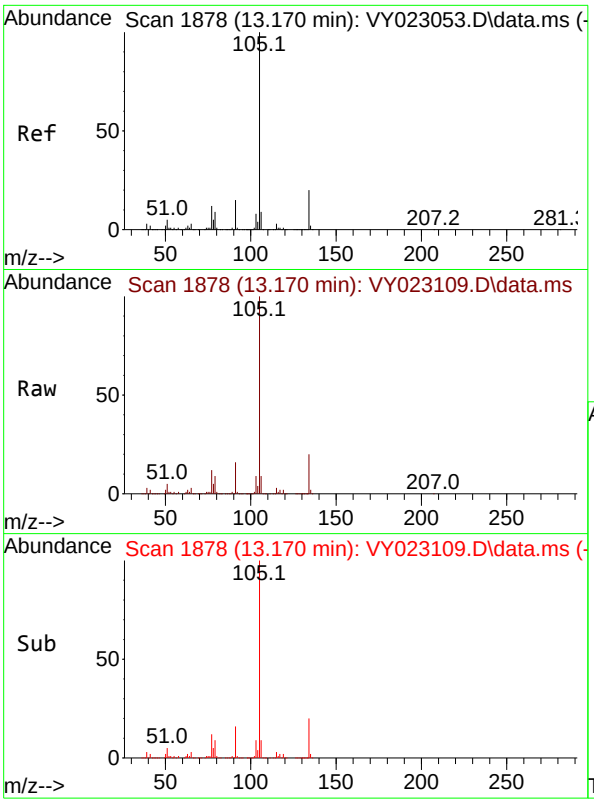




#84
1,2,4-Trimethylbenzene
Concen: 49.211 ug/l
RT: 13.036 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:105 Resp: 915823

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.1 | 23.0 | 69.0 |



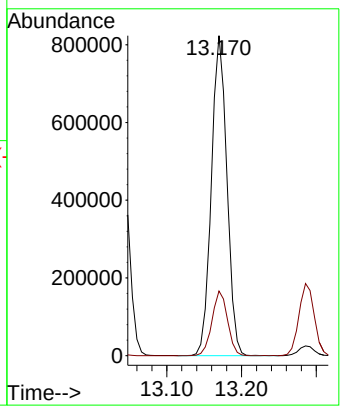


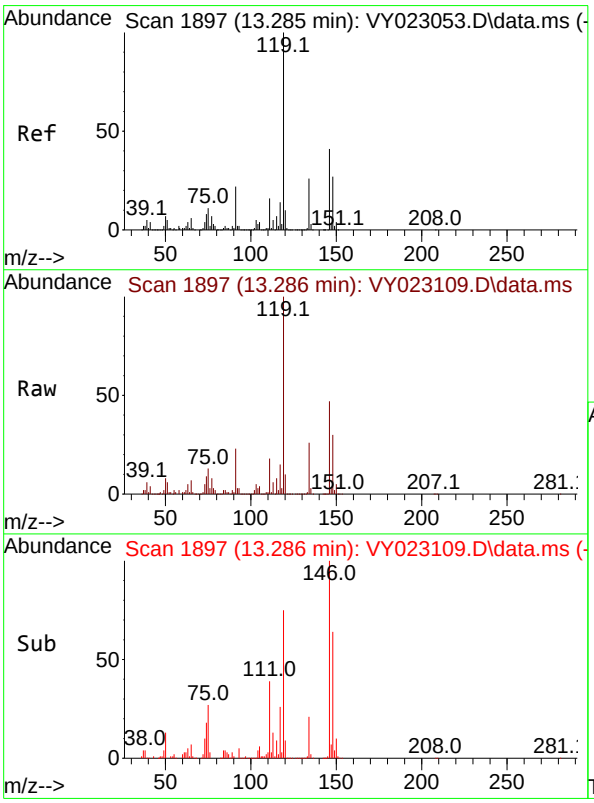

#85
sec-Butylbenzene
Concen: 47.812 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:105 Resp: 1185899

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.2 | 10.2 | 30.4 |

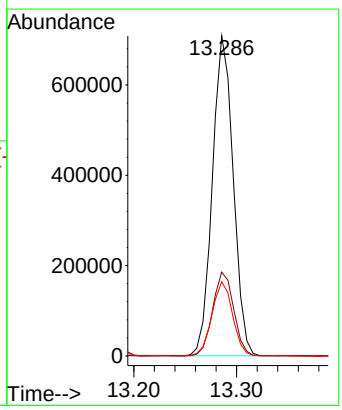


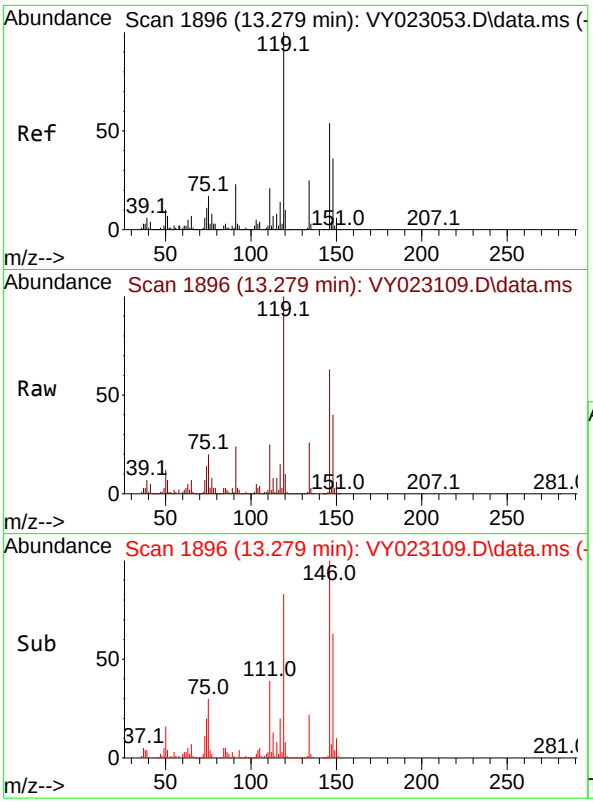




#86
p-Isopropyltoluene
Concen: 48.457 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:119 Resp: 997638

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.5 | 13.2 | 39.6 |
| 91 | 23.0 | 11.3 | 33.8 |



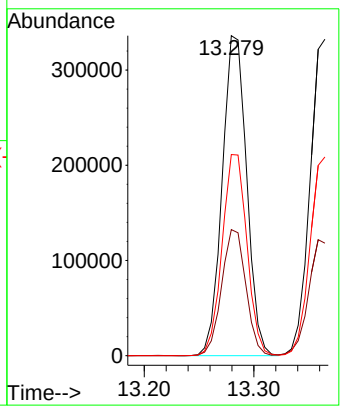


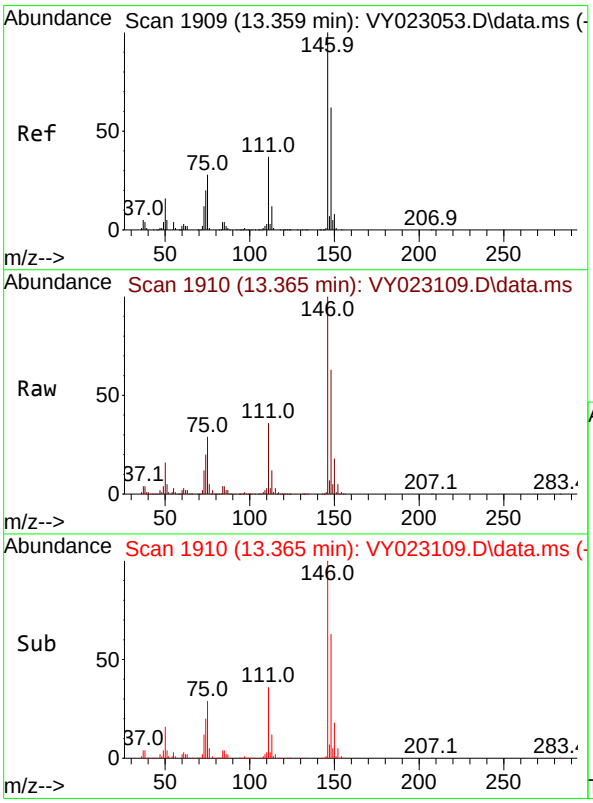

#87
1,3-Dichlorobenzene
Concen: 47.944 ug/l
RT: 13.279 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:146 Resp: 521768

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.1 | 19.6 | 58.7 |
| 148 | 63.8 | 32.5 | 97.5 |

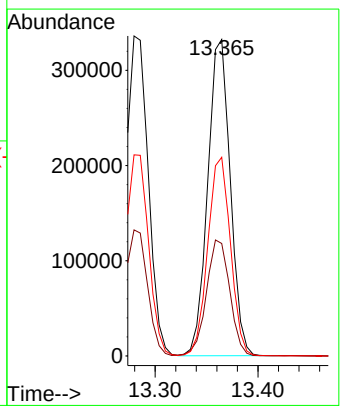


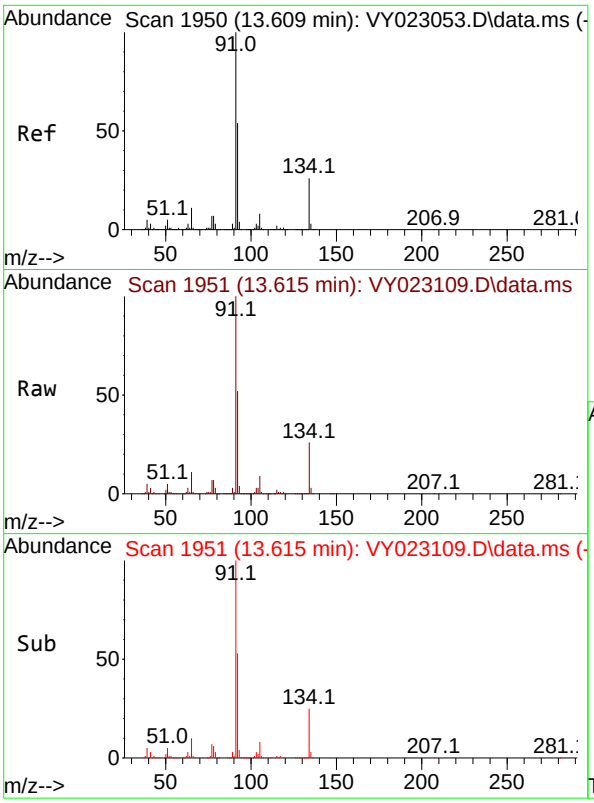




#88
1,4-Dichlorobenzene
Concen: 46.877 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:146 Resp: 506066

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.3 | 19.1 | 57.1 |
| 148 | 63.4 | 31.6 | 94.7 |



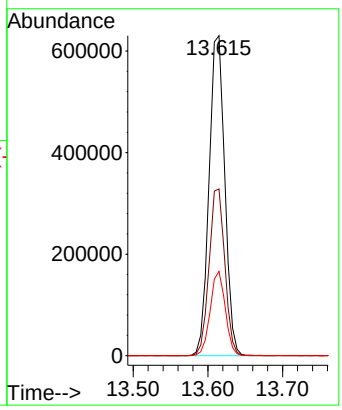


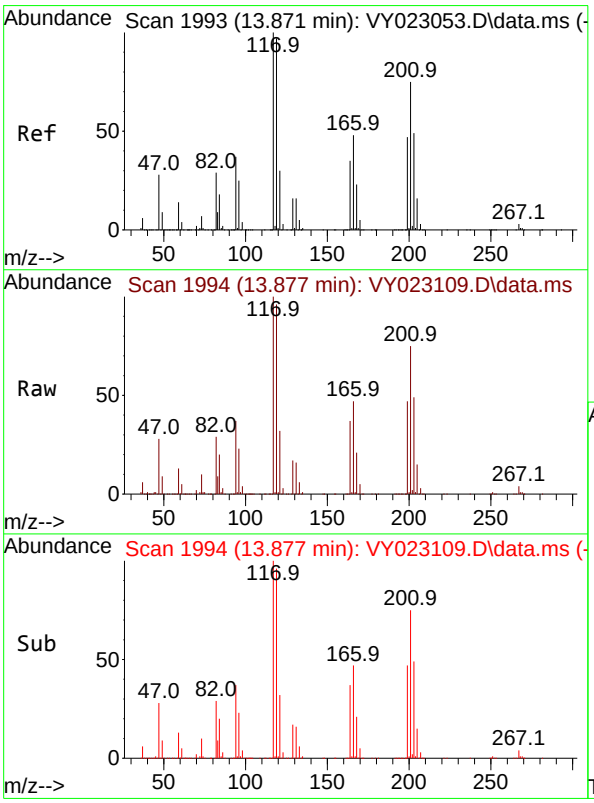

#89
n-Butylbenzene
Concen: 48.761 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 91 Resp: 922027

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.1 | 26.9 | 80.7 |
| 134 | 25.2 | 13.2 | 39.5 |

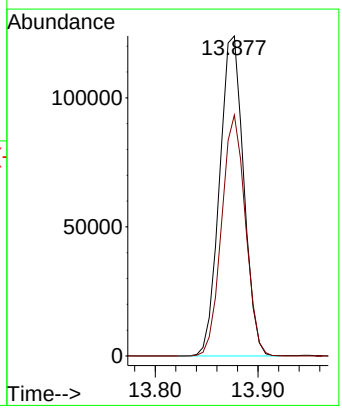


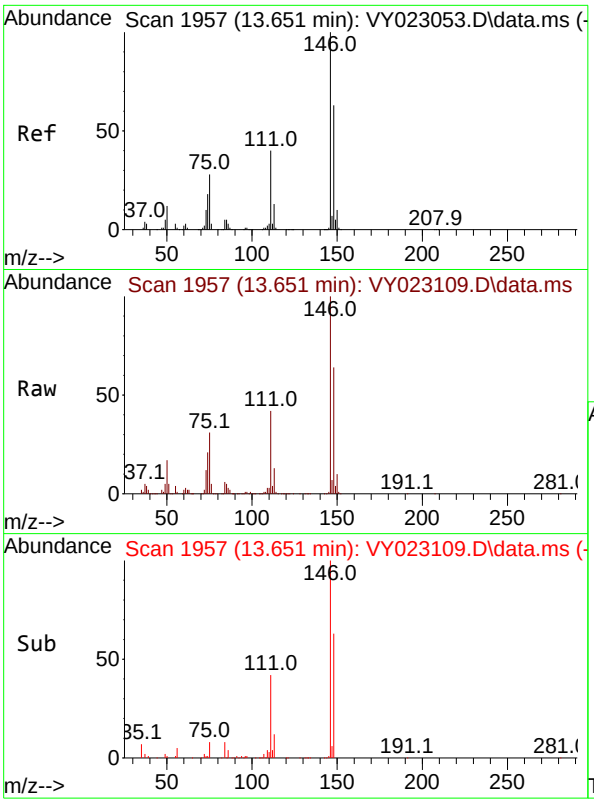




#90
Hexachloroethane
Concen: 47.944 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:117 Resp: 202066

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 74.1 | 38.4 | 115.1 |



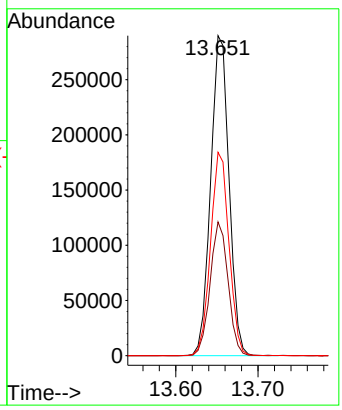


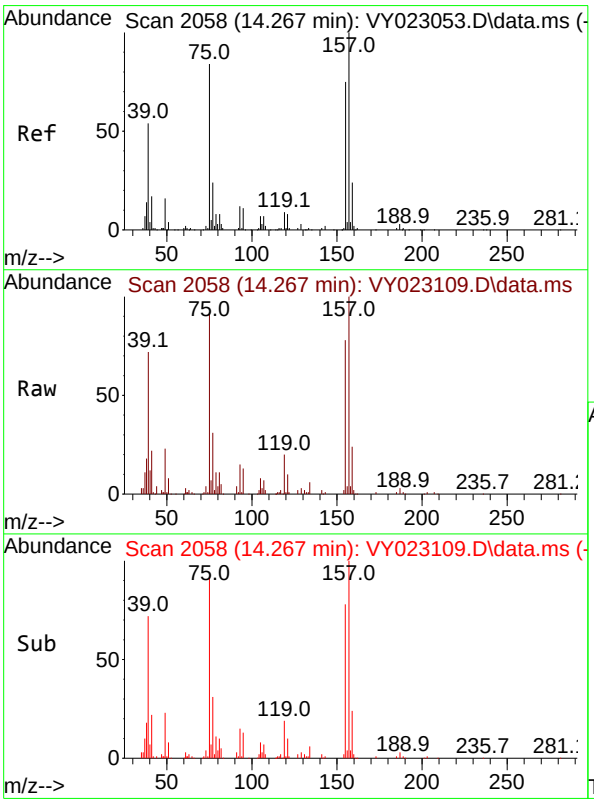

#91
1,2-Dichlorobenzene
Concen: 47.139 ug/l
RT: 13.651 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:146 Resp: 449904

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.9 | 20.3 | 60.8 |
| 148 | 63.8 | 32.2 | 96.6 |

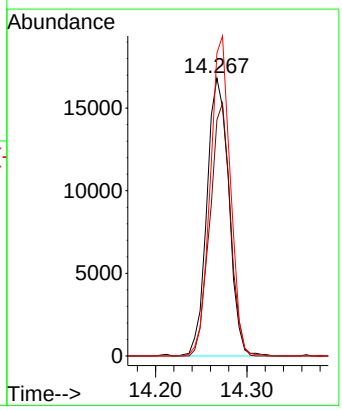


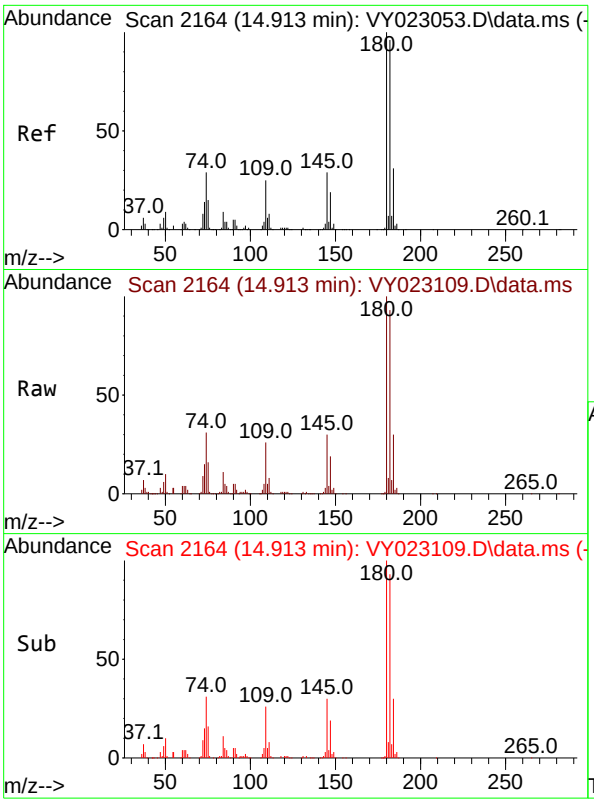




#92
1,2-Dibromo-3-Chloropropane
Concen: 45.509 ug/l
RT: 14.267 min Scan# 2058
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion: 75 Resp: 27986

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 85.1 | 43.9 | 131.6 |
| 157 | 105.7 | 57.2 | 171.6 |



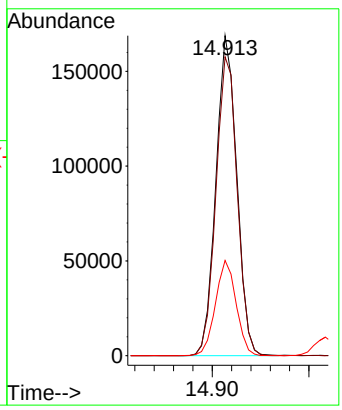


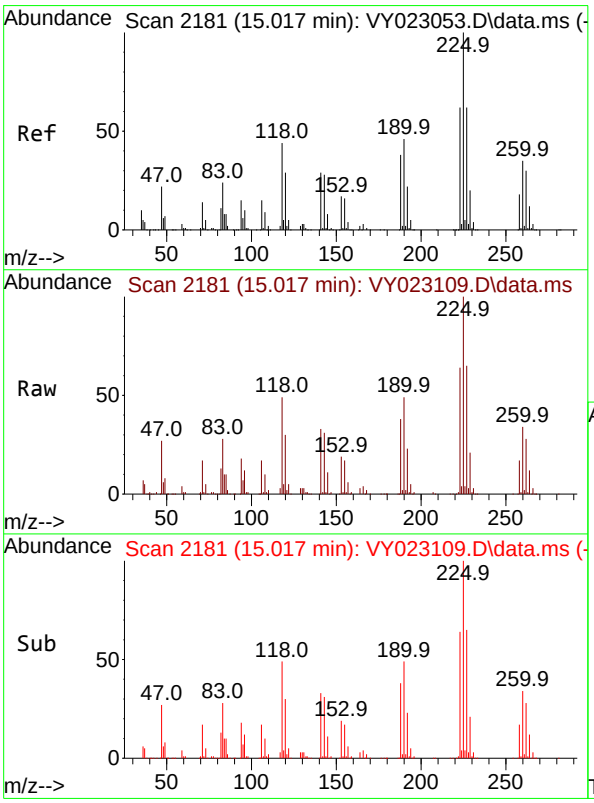

#93
1,2,4-Trichlorobenzene
Concen: 44.744 ug/l
RT: 14.913 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:180 Resp: 252540

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.4 | 46.8 | 140.4 |
| 145 | 29.5 | 14.4 | 43.4 |

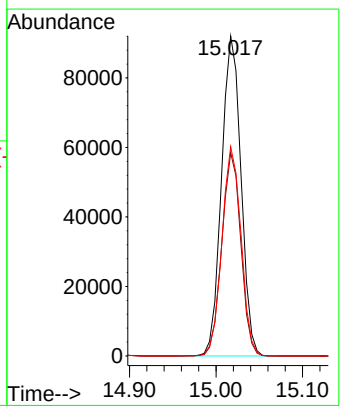


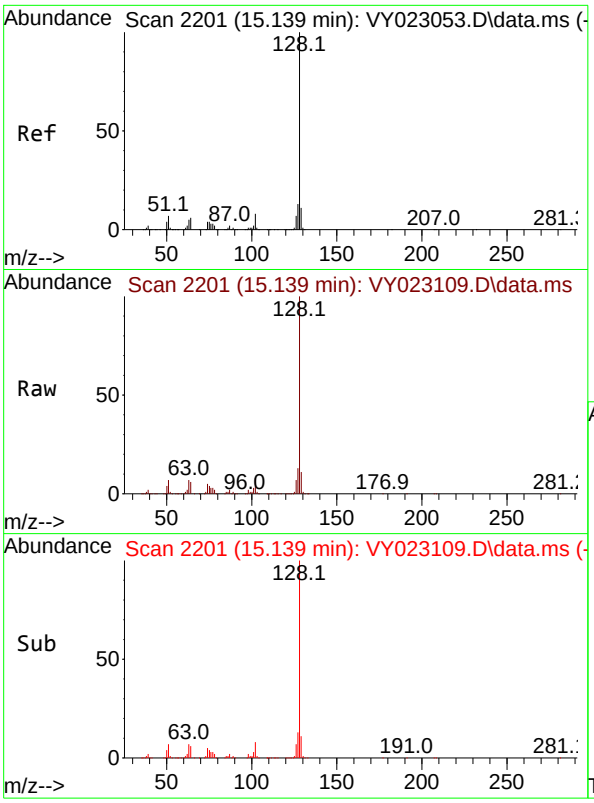




#94
Hexachlorobutadiene
Concen: 43.304 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:225 Resp: 143621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.0 | 31.3 | 93.8 |
| 227 | 64.1 | 31.5 | 94.5 |



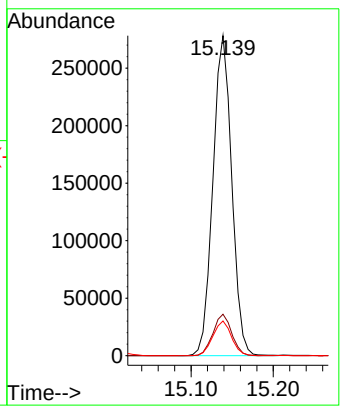


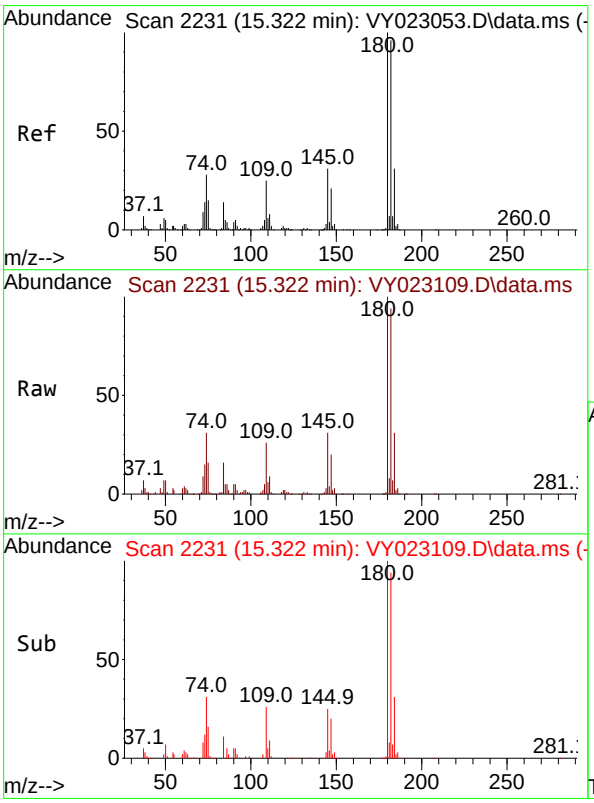

#95
Naphthalene
Concen: 46.067 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:128 Resp: 443360

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.9 | 10.4 | 15.6 |
| 129 | 10.8 | 9.0 | 13.4 |

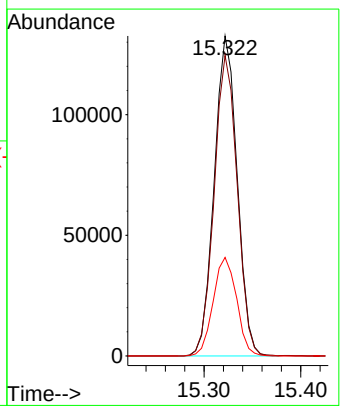



#96
1,2,3-Trichlorobenzene
Concen: 44.896 ug/l
RT: 15.322 min Scan# 2231
Delta R.T. 0.000 min
Lab File: VY023109.D
Acq: 14 Aug 2025 20:38

Tgt Ion:180 Resp: 218352

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.6 | 47.9 | 143.7 |
| 145 | 31.4 | 15.9 | 47.7 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023137.D
Acq On : 19 Aug 2025 09:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Quant Time: Aug 20 01:22:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 560294 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 876189 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 761785 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 392533 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 241668 | 45.256 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 90.520% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 256133 | 48.854 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 97.700% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 1008048 | 49.217 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 98.440% | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 326827 | 49.618 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 99.240% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 190057 | 41.557 | ug/l | 98 |
| 3) Chloromethane | 2.074 | 50 | 316334 | 42.705 | ug/l | 99 |
| 4) Vinyl Chloride | 2.208 | 62 | 416548 | 45.491 | ug/l | 100 |
| 5) Bromomethane | 2.598 | 94 | 324698 | 47.481 | ug/l | 99 |
| 6) Chloroethane | 2.739 | 64 | 284191 | 46.683 | ug/l | 100 |
| 7) Trichlorofluoromethane | 3.056 | 101 | 508922 | 45.708 | ug/l | 100 |
| 8) Diethyl Ether | 3.458 | 74 | 135802 | 46.102 | ug/l | 95 |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 266790 | 48.569 | ug/l | 99 |
| 10) Methyl Iodide | 4.007 | 142 | 325506 | 54.916 | ug/l | 98 |
| 11) Tert butyl alcohol | 4.866 | 59 | 79834 | 218.191 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 3.793 | 96 | 267212 | 49.491 | ug/l | 90 |
| 13) Acrolein | 3.653 | 56 | 60662 | 113.207 | ug/l | 93 |
| 14) Allyl chloride | 4.385 | 41 | 361978 | 45.563 | ug/l | 96 |
| 15) Acrylonitrile | 5.061 | 53 | 279904 | 233.725 | ug/l | 99 |
| 16) Acetone | 3.866 | 43 | 316768 | 273.812 | ug/l | 99 |
| 17) Carbon Disulfide | 4.110 | 76 | 811887 | 46.117 | ug/l | 100 |
| 18) Methyl Acetate | 4.385 | 43 | 147420 | 42.821 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 5.122 | 73 | 679197 | 48.545 | ug/l | 99 |
| 20) Methylene Chloride | 4.616 | 84 | 287656 | 47.727 | ug/l | 95 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 299764 | 49.404 | ug/l | 96 |
| 22) Diisopropyl ether | 6.025 | 45 | 825090 | 47.793 | ug/l | 99 |
| 23) Vinyl Acetate | 5.964 | 43 | 2298296 | 240.761 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.921 | 63 | 508733 | 48.199 | ug/l | 99 |
| 25) 2-Butanone | 6.896 | 43 | 384462 | 244.351 | ug/l | 97 |
| 26) 2,2-Dichloropropane | 6.890 | 77 | 468257 | 51.414 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 351019 | 50.042 | ug/l | 98 |
| 28) Bromochloromethane | 7.244 | 49 | 186381 | 44.509 | ug/l | 95 |
| 29) Tetrahydrofuran | 7.262 | 42 | 221133 | 226.737 | ug/l | 96 |
| 30) Chloroform | 7.421 | 83 | 536519 | 49.287 | ug/l | 95 |
| 31) Cyclohexane | 7.701 | 56 | 460210 | 46.269 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 483961 | 50.106 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 395952 | 50.818 | ug/l | 99 |
| 37) Ethyl Acetate | 6.988 | 43 | 157126 | 48.006 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 436510 | 51.581 | ug/l | 99 |
| 39) Methylcyclohexane | 9.109 | 83 | 531826 | 51.832 | ug/l | 97 |
| 40) Benzene | 8.079 | 78 | 1210380 | 50.401 | ug/l | 100 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023137.D
Acq On : 19 Aug 2025 09:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Quant Time: Aug 20 01:22:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.219 | 41 | 75919 | 40.191 ug/l # | 84 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 300070 | 48.044 ug/l | 100 |
| 43) Isopropyl Acetate | 8.201 | 43 | 308955 | 46.703 ug/l # | 84 |
| 44) Trichloroethene | 8.866 | 130 | 319381 | 51.463 ug/l | 100 |
| 45) 1,2-Dichloropropane | 9.146 | 63 | 276520 | 50.044 ug/l | 97 |
| 46) Dibromomethane | 9.231 | 93 | 157422 | 49.637 ug/l | 99 |
| 47) Bromodichloromethane | 9.426 | 83 | 406246 | 49.781 ug/l | 97 |
| 48) Methyl methacrylate | 9.219 | 41 | 152020 | 48.023 ug/l | 97 |
| 49) 1,4-Dioxane | 9.231 | 88 | 34759 | 934.713 ug/l | 97 |
| 51) 4-Methyl-2-Pentanone | 9.999 | 43 | 822061 | 240.906 ug/l | 98 |
| 52) Toluene | 10.170 | 92 | 788070 | 51.669 ug/l | 100 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 377708 | 51.112 ug/l | 100 |
| 54) cis-1,3-Dichloropropene | 9.859 | 75 | 441435 | 50.516 ug/l | 99 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 213063 | 50.206 ug/l | 97 |
| 56) Ethyl methacrylate | 10.438 | 69 | 276182 | 50.859 ug/l | 99 |
| 57) 1,3-Dichloropropane | 10.719 | 76 | 354628 | 49.273 ug/l | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 622022 | 242.835 ug/l | 97 |
| 59) 2-Hexanone | 10.762 | 43 | 592202 | 254.865 ug/l | 98 |
| 60) Dibromochloromethane | 10.914 | 129 | 285374 | 50.963 ug/l | 99 |
| 61) 1,2-Dibromoethane | 11.018 | 107 | 201073 | 50.411 ug/l | 100 |
| 64) Tetrachloroethene | 10.646 | 164 | 342427 | 50.340 ug/l | 98 |
| 65) Chlorobenzene | 11.444 | 112 | 858367 | 52.238 ug/l | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131 | 295011 | 52.900 ug/l | 99 |
| 67) Ethyl Benzene | 11.517 | 91 | 1494465 | 52.850 ug/l | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 1186104 | 107.397 ug/l | 98 |
| 69) o-Xylene | 11.956 | 106 | 557951 | 53.940 ug/l | 100 |
| 70) Styrene | 11.969 | 104 | 930498 | 55.007 ug/l | 98 |
| 71) Bromoform | 12.133 | 173 | 166298 | 51.022 ug/l | 99 |
| 73) Isopropylbenzene | 12.255 | 105 | 1455261 | 52.528 ug/l | 99 |
| 74) N-amyl acetate | 12.072 | 43 | 285441 | 48.584 ug/l | 97 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 230085 | 48.639 ug/l | 99 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 307699 | 81.222 ug/l # | 100 |
| 77) Bromobenzene | 12.529 | 156 | 336874 | 50.968 ug/l | 97 |
| 78) n-propylbenzene | 12.597 | 91 | 1741756 | 52.806 ug/l | 99 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 975057 | 51.594 ug/l | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 1191826 | 53.229 ug/l | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 77577 | 49.570 ug/l | 98 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 1000547 | 51.036 ug/l | 99 |
| 83) tert-Butylbenzene | 12.993 | 119 | 1091125 | 53.956 ug/l | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 1191535 | 53.459 ug/l | 100 |
| 85) sec-Butylbenzene | 13.176 | 105 | 1594423 | 53.673 ug/l | 100 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 1357746 | 55.063 ug/l | 100 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 680781 | 52.231 ug/l | 99 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 663039 | 51.281 ug/l | 99 |
| 89) n-Butylbenzene | 13.615 | 91 | 1231645 | 54.384 ug/l | 99 |
| 90) Hexachloroethane | 13.877 | 117 | 264268 | 52.354 ug/l | 100 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 588570 | 51.489 ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 34676 | 47.081 ug/l | 97 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 345818 | 51.158 ug/l | 99 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 202124 | 50.885 ug/l | 99 |
| 95) Naphthalene | 15.145 | 128 | 590257 | 51.208 ug/l | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.328 | 180 | 288433 | 49.517 ug/l | 99 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023137.D
Acq On : 19 Aug 2025 09:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Quant Time: Aug 20 01:22:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

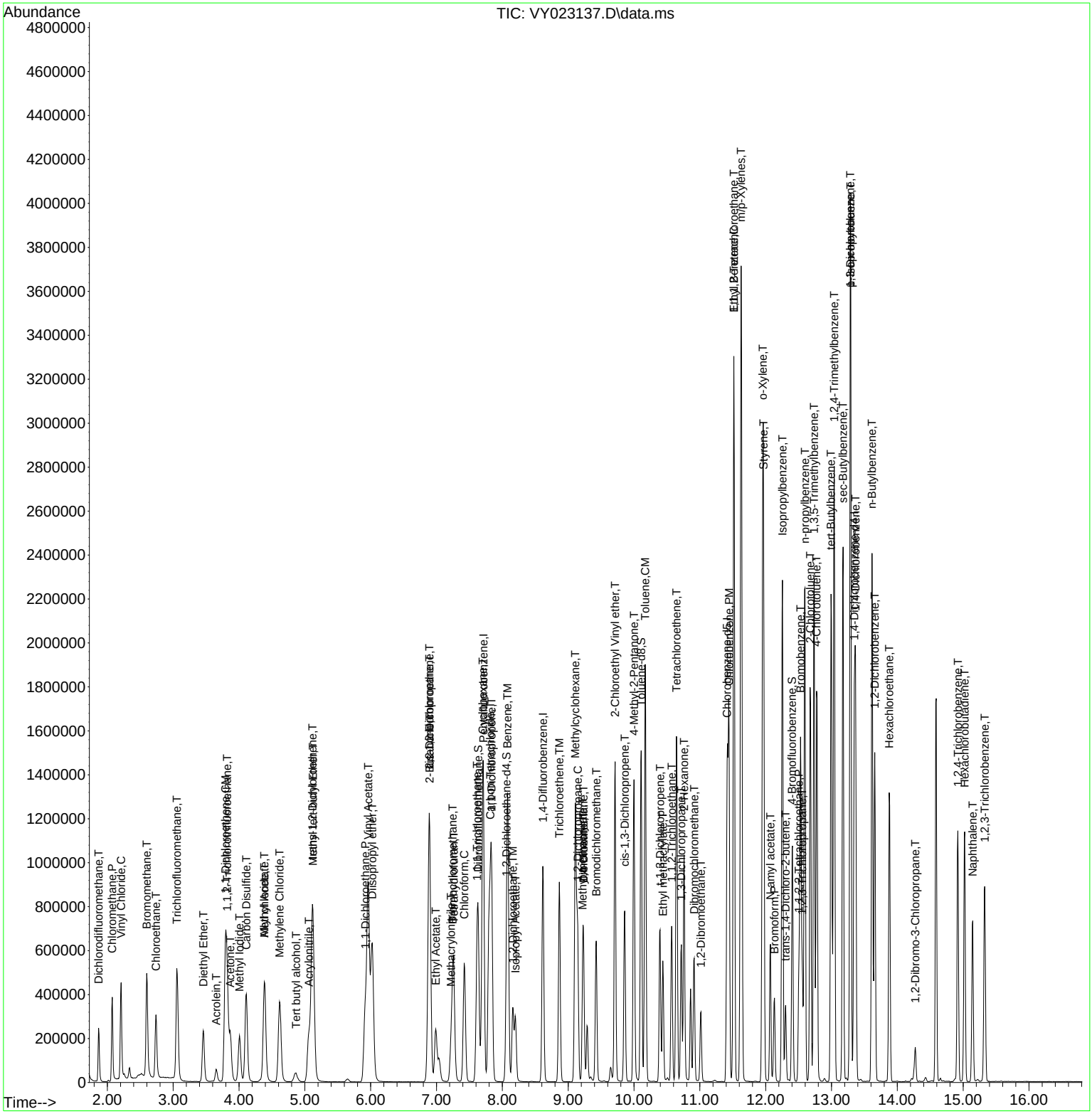
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

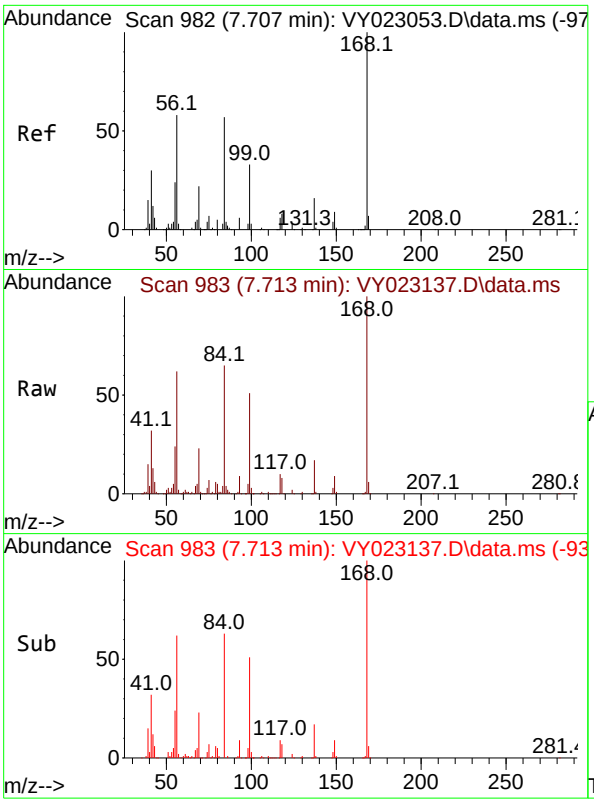
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023137.D
Acq On : 19 Aug 2025 09:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Quant Time: Aug 20 01:22:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



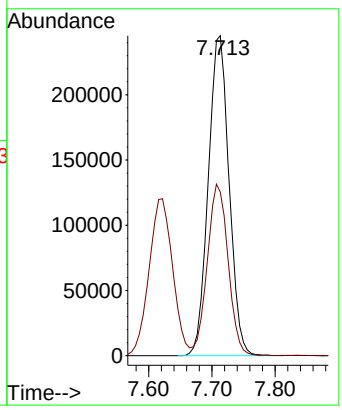


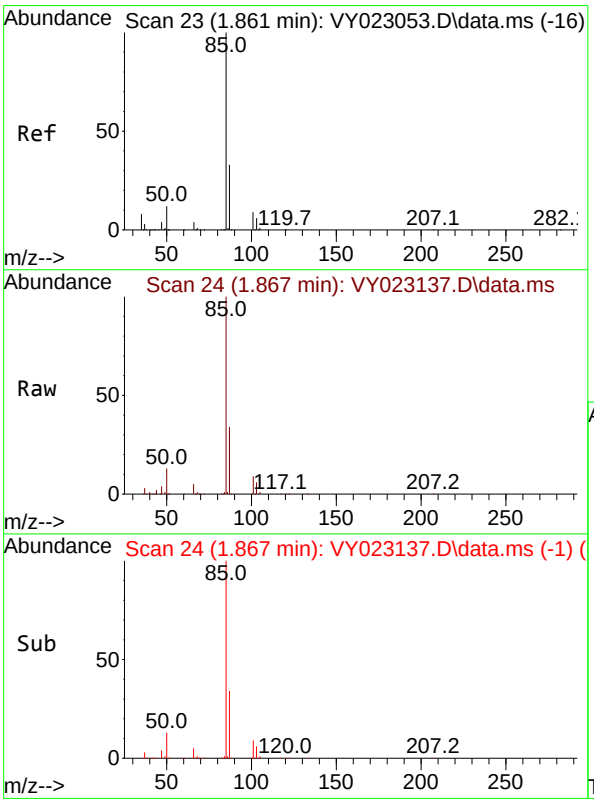

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:168 Resp: 560294

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 51.1 | 42.8 | 64.2 |

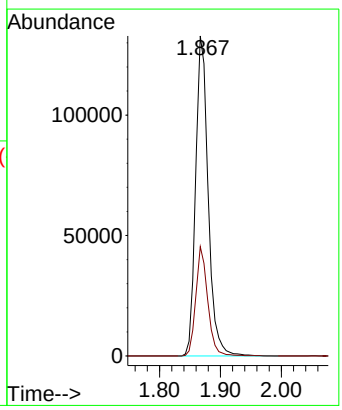


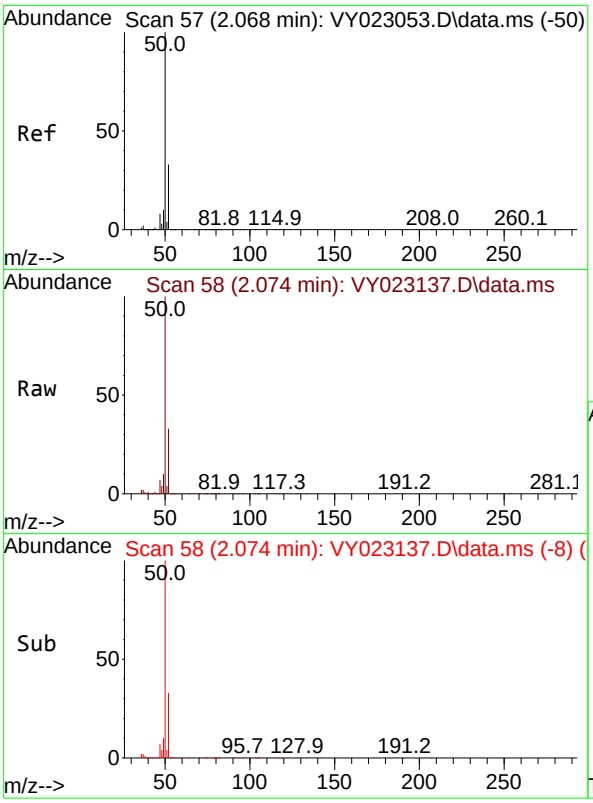




#2
Dichlorodifluoromethane
Concen: 41.557 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 85 Resp: 190057

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 34.2 | 16.6 | 49.8 |



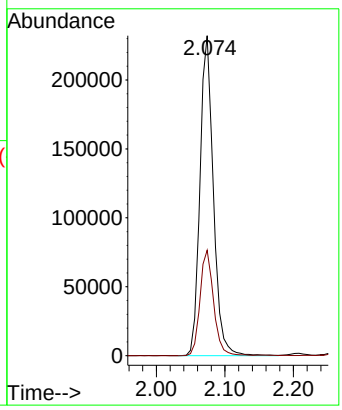


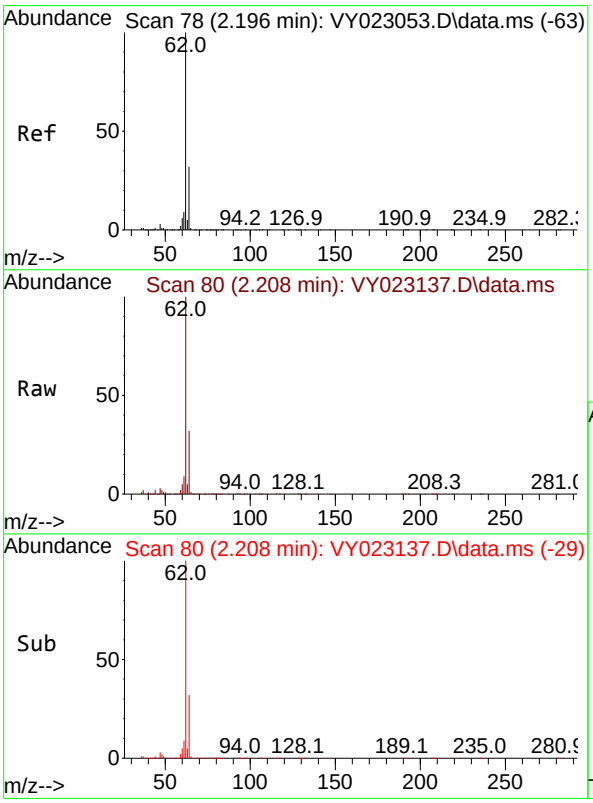

#3
Chloromethane
Concen: 42.705 ug/l
RT: 2.074 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 50 Resp: 316334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.0 | 26.7 | 40.1 |

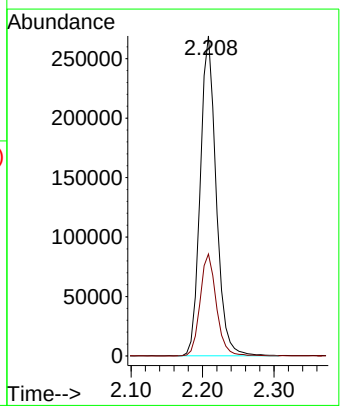


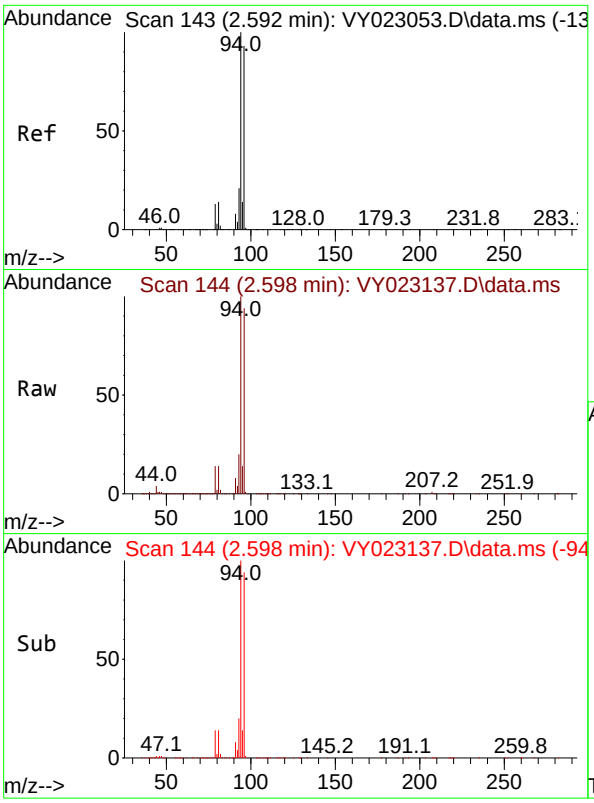




#4
Vinyl Chloride
Concen: 45.491 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 62 Resp: 416548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.8 | 25.4 | 38.0 |



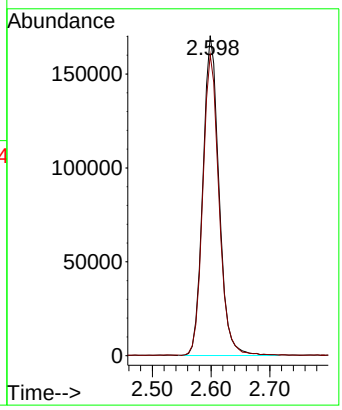


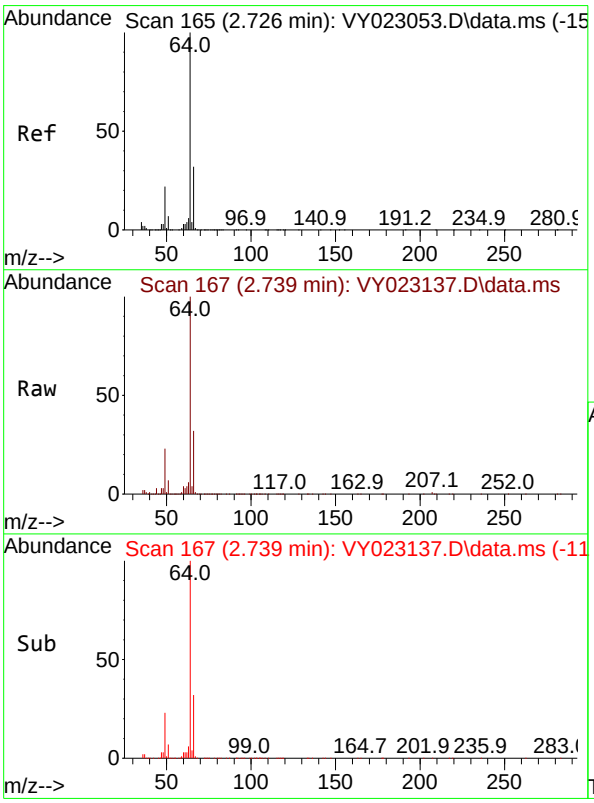

#5
Bromomethane
Concen: 47.481 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 94 Resp: 324698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 94.0 | 74.6 | 112.0 |

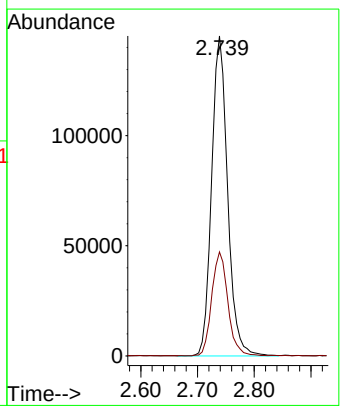


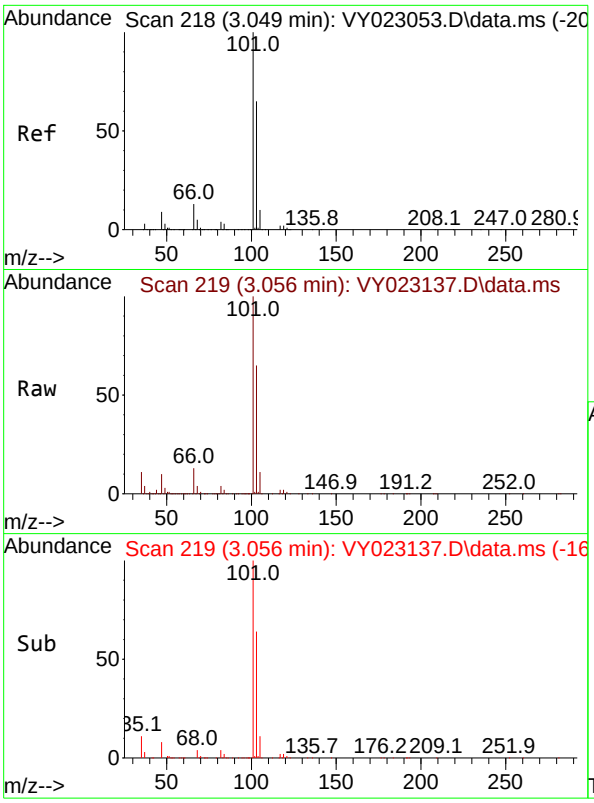




#6
Chloroethane
Concen: 46.683 ug/l
RT: 2.739 min Scan# 167
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 64 Resp: 284191

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.4 | 25.8 | 38.6 |



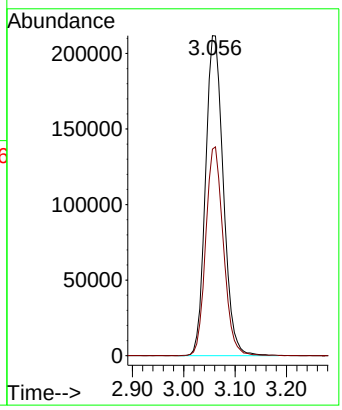


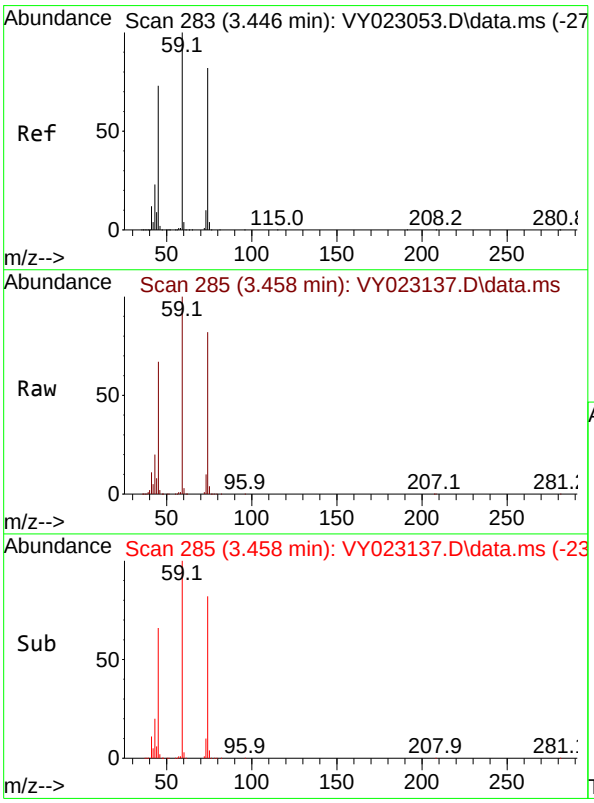

#7
Trichlorofluoromethane
Concen: 45.708 ug/l
RT: 3.056 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:101 Resp: 508922

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.6 | 51.9 | 77.9 |

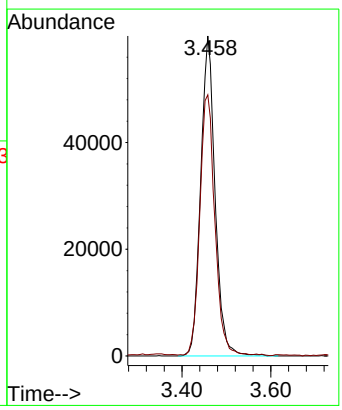


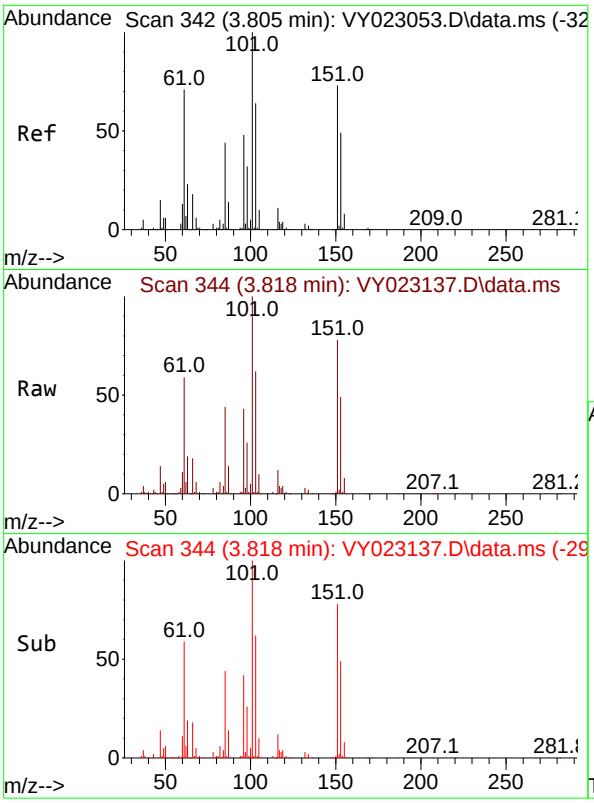




#8
Diethyl Ether
Concen: 46.102 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 74 Resp: 135802

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 84.4 | 44.4 | 133.2 |



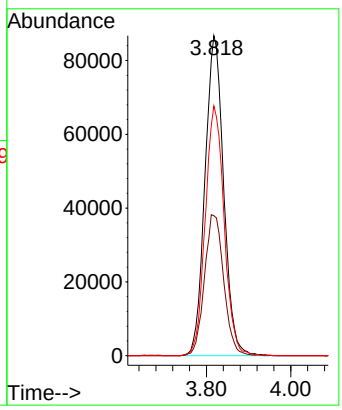


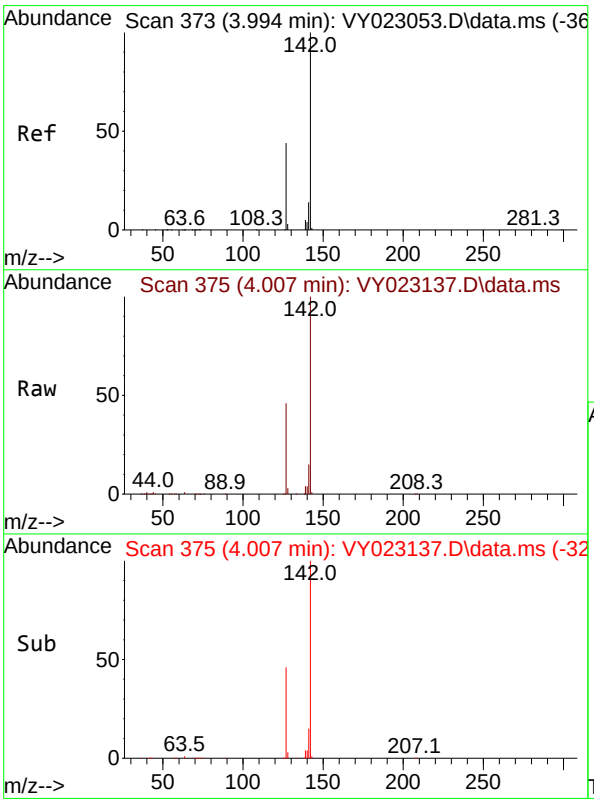

#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.569 ug/l
RT: 3.818 min Scan# 3
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:101 Resp: 266790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 45.5 | 36.3 | 54.5 |
| 151 | 78.8 | 61.5 | 92.3 |

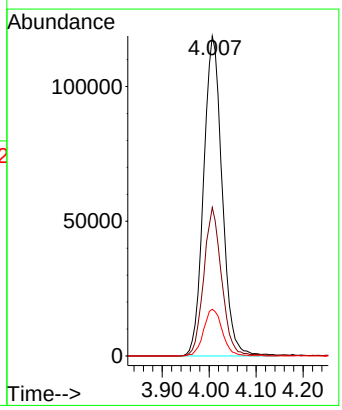


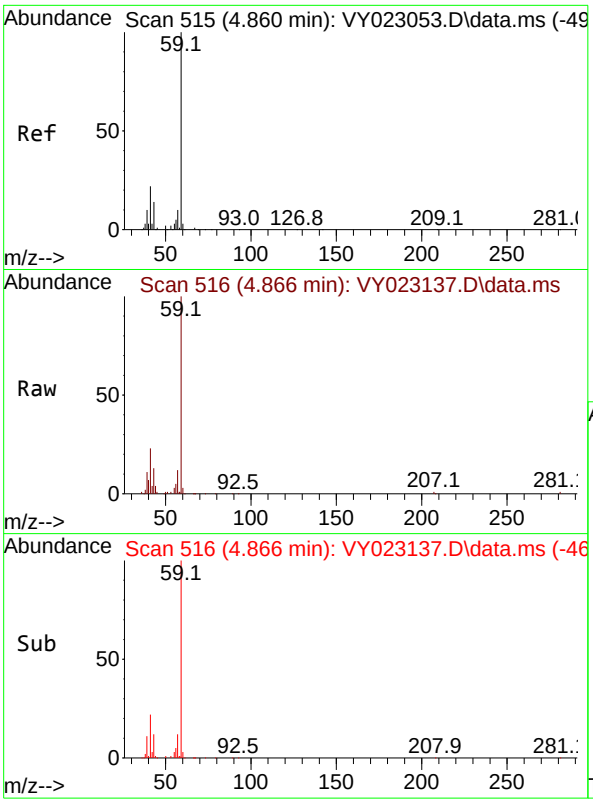




#10
Methyl Iodide
Concen: 54.916 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:142 Resp: 325506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 44.6 | 34.9 | 52.3 |
| 141 | 14.7 | 11.3 | 16.9 |



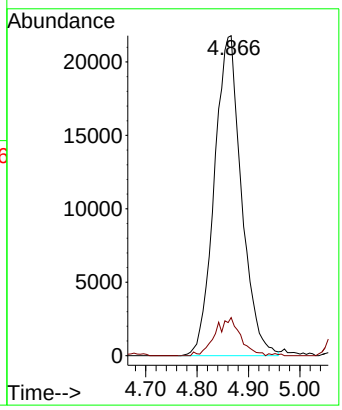


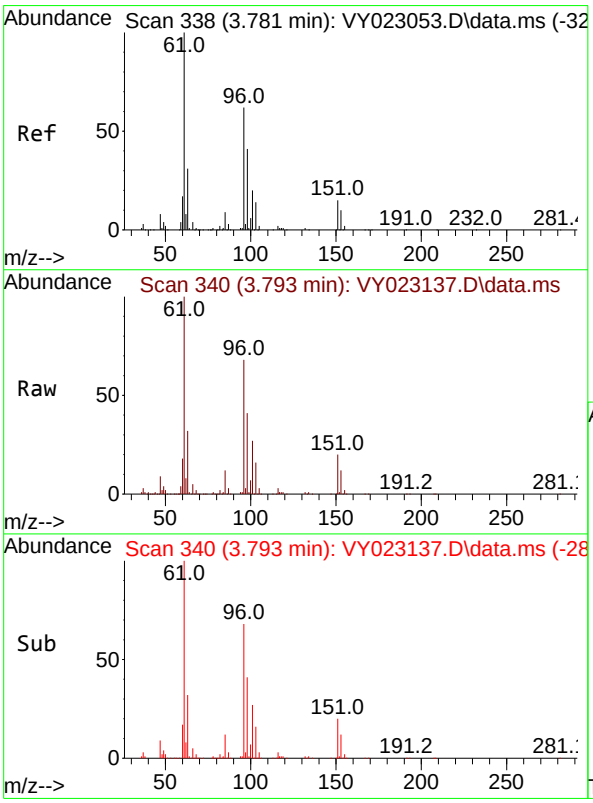

#11
Tert butyl alcohol
Concen: 218.191 ug/l
RT: 4.866 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 59 Resp: 79834

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 11.0 | 8.6 | 13.0 |

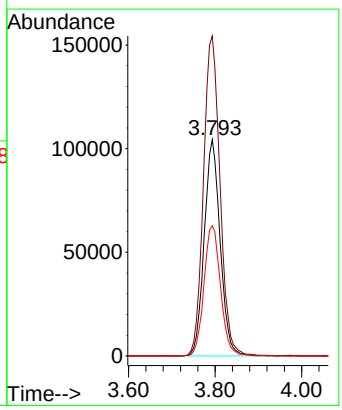


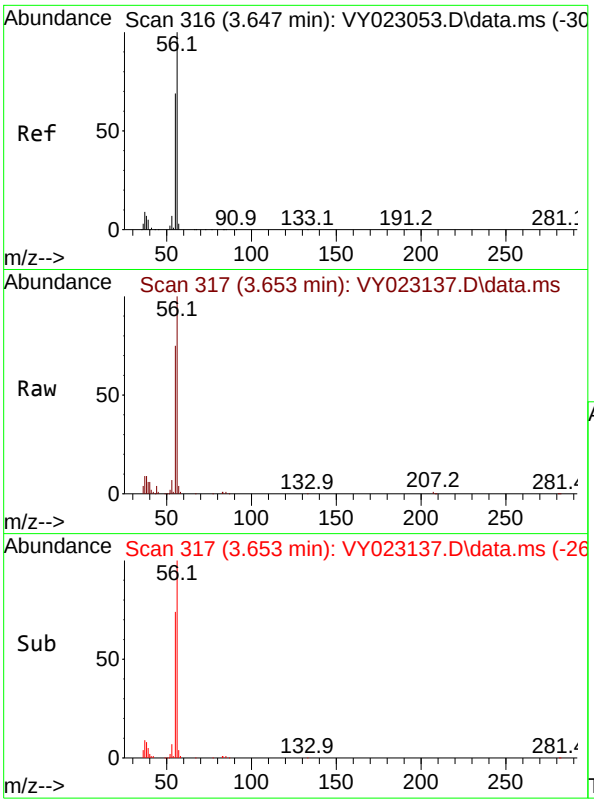




#12
1,1-Dichloroethene
Concen: 49.491 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 96 Resp: 267212

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 148.0 | 129.4 | 194.2 |
| 98 | 60.2 | 52.8 | 79.2 |



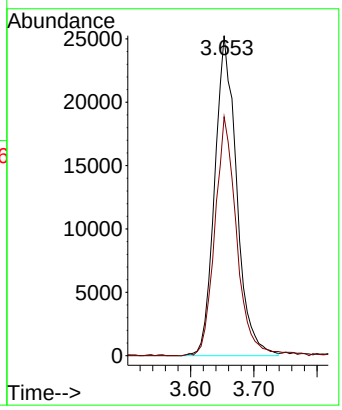


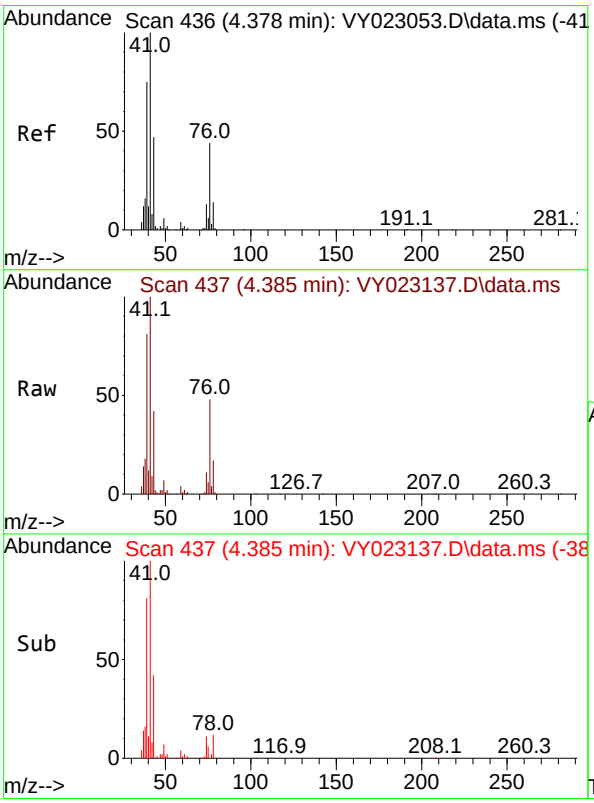

#13
Acrolein
Concen: 113.207 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 56 Resp: 60662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 74.5 | 55.2 | 82.8 |

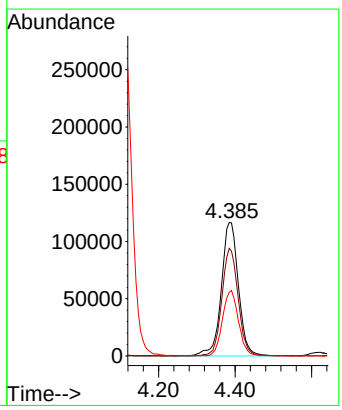


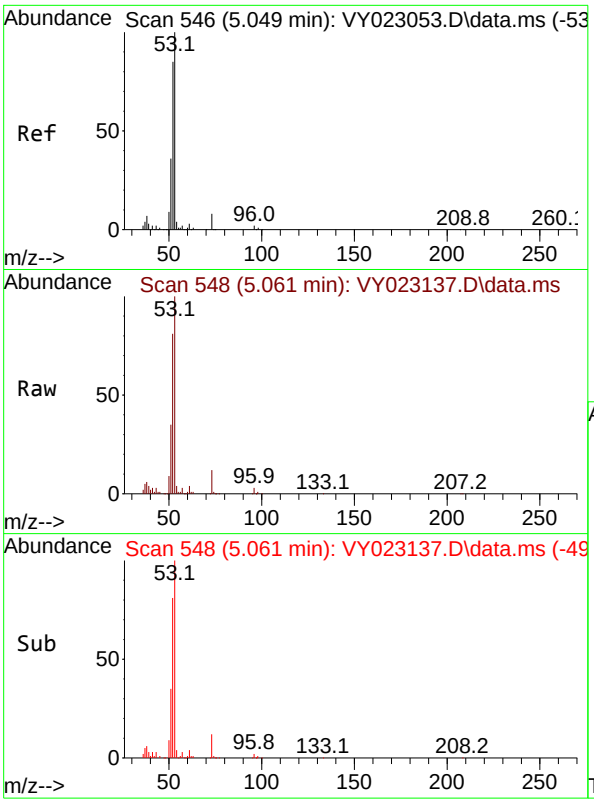




#14
Allyl chloride
Concen: 45.563 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 41 Resp: 361978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 76.6 | 59.8 | 89.6 |
| 76 | 46.0 | 33.7 | 50.5 |



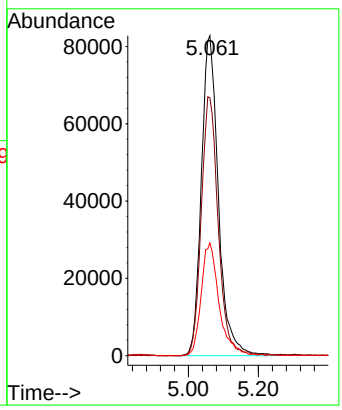


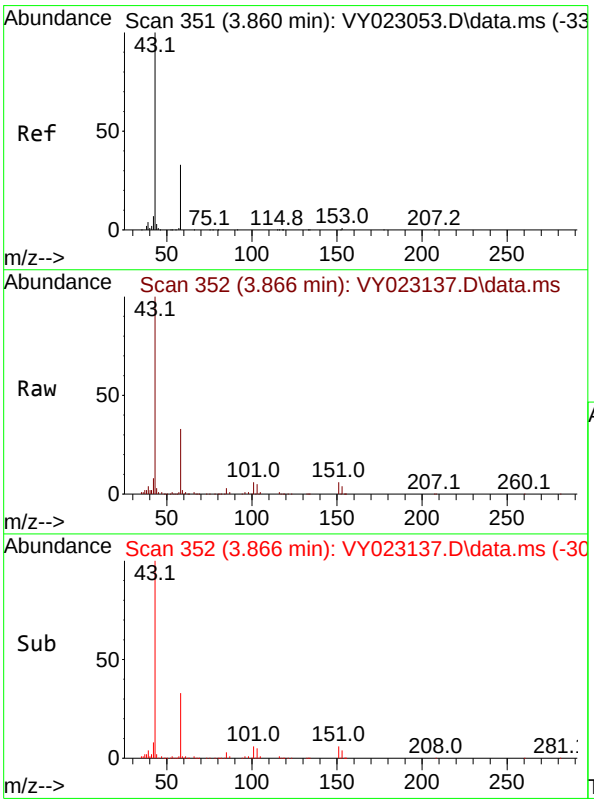

#15
Acrylonitrile
Concen: 233.725 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 53 Resp: 279904

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 80.2 | 65.3 | 97.9 |
| 51 | 36.9 | 29.5 | 44.3 |

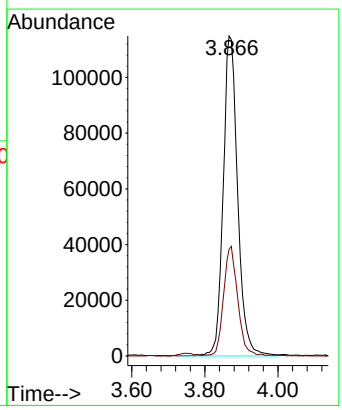


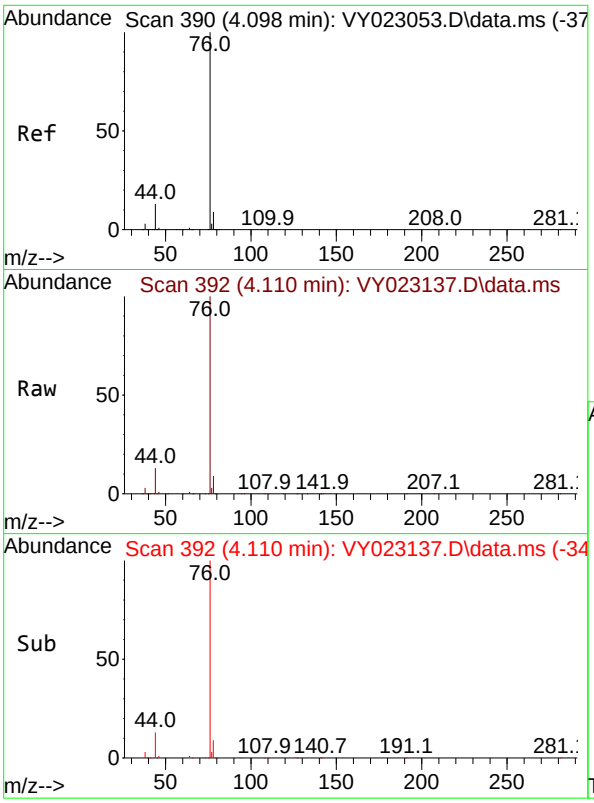




#16
Acetone
Concen: 273.812 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 43 Resp: 316768

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.2 | 27.1 | 40.7 |



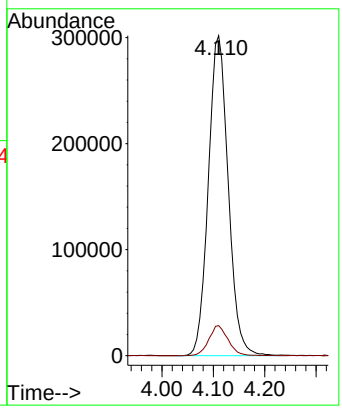


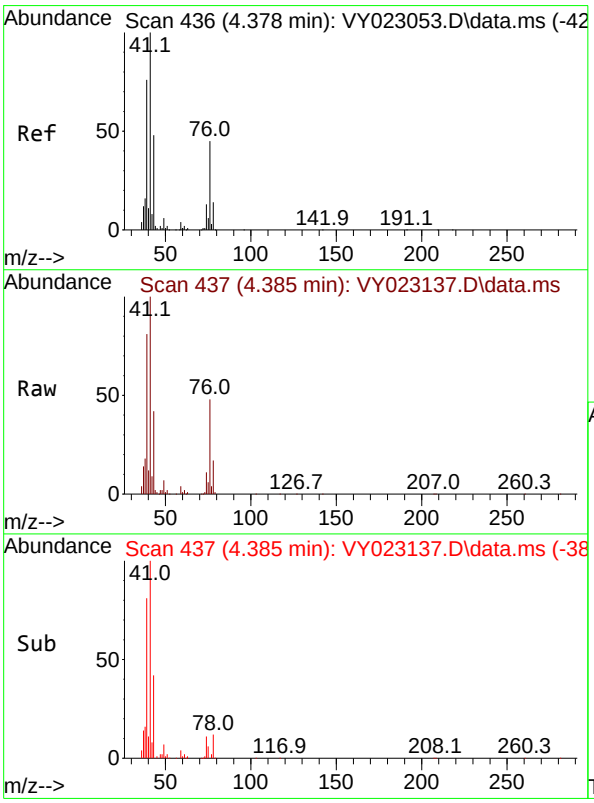

#17
Carbon Disulfide
Concen: 46.117 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 76 Resp: 811887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.4 | 7.4 | 11.2 |

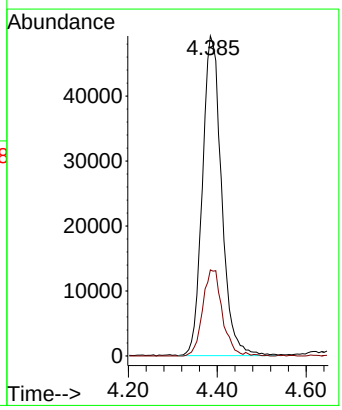


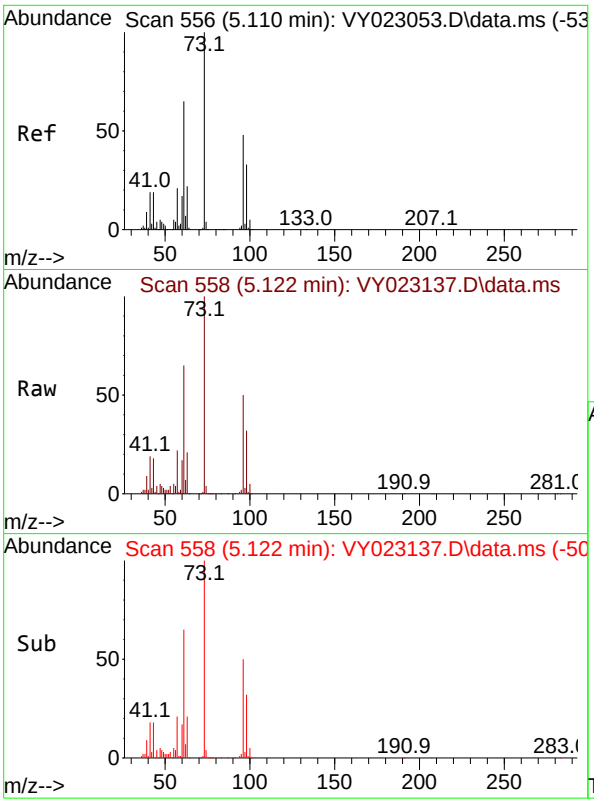




#18
Methyl Acetate
Concen: 42.821 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 43 Resp: 147420

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 27.3 | 21.2 | 31.8 |



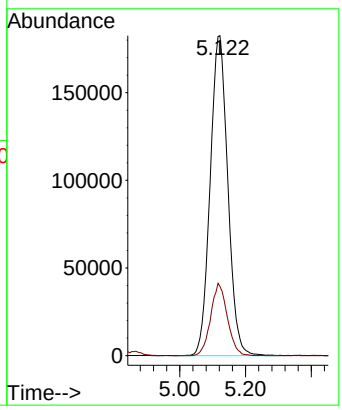


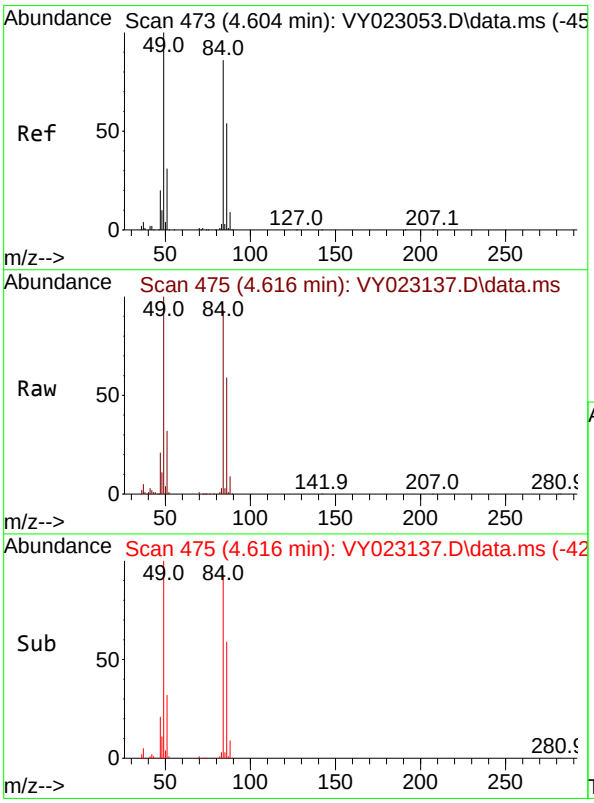

#19
Methyl tert-butyl Ether
Concen: 48.545 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 73 Resp: 679197

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.7 | 17.1 | 25.7 |

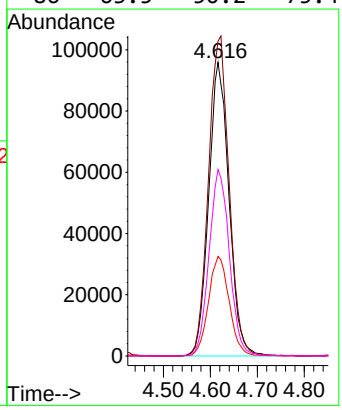


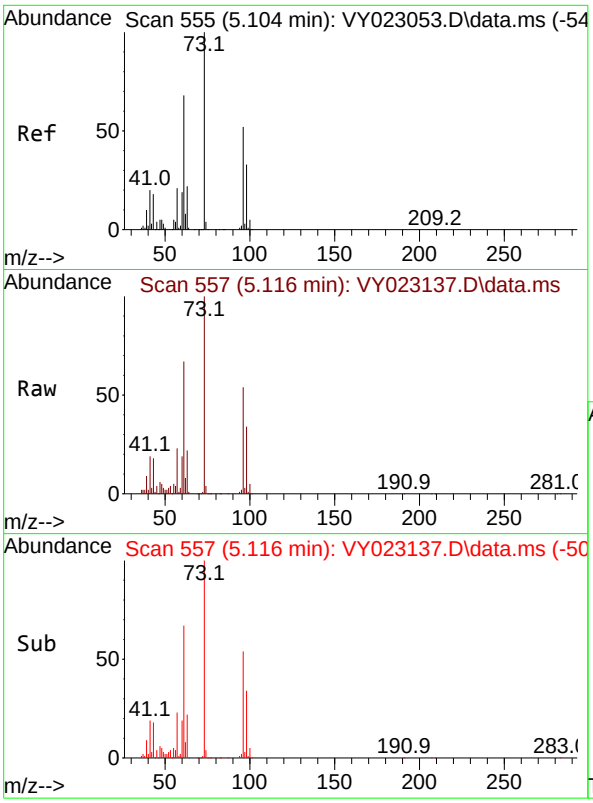




#20
Methylene Chloride
Concen: 47.727 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 84 Resp: 287656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 107.3 | 93.0 | 139.6 |
| 51 | 33.9 | 29.0 | 43.4 |
| 86 | 63.5 | 50.2 | 75.4 |



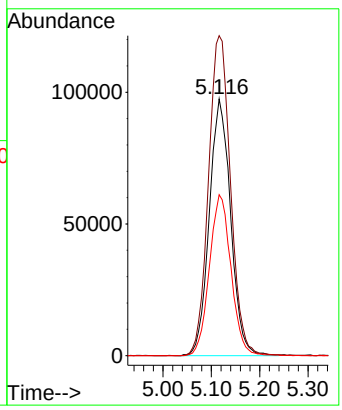


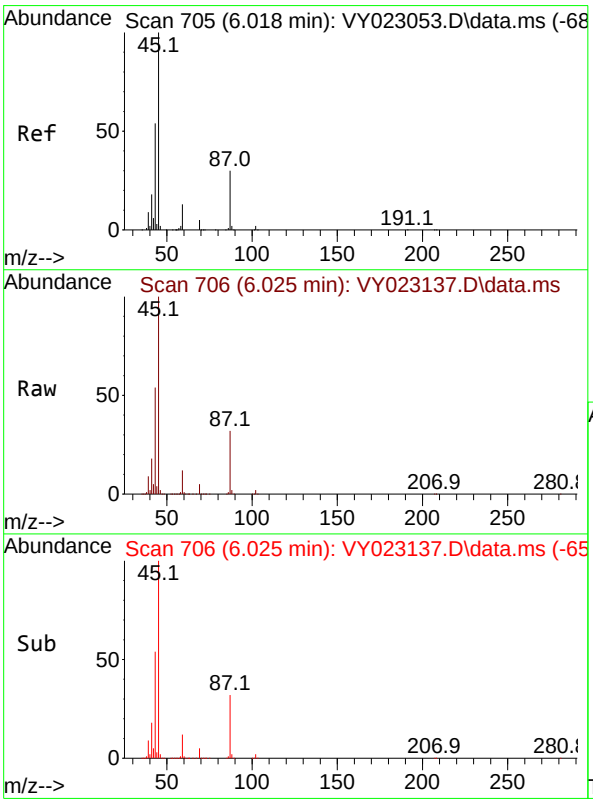

#21
trans-1,2-Dichloroethene
Concen: 49.404 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 96 Resp: 299764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 124.6 | 104.8 | 157.2 |
| 98 | 62.6 | 50.1 | 75.1 |

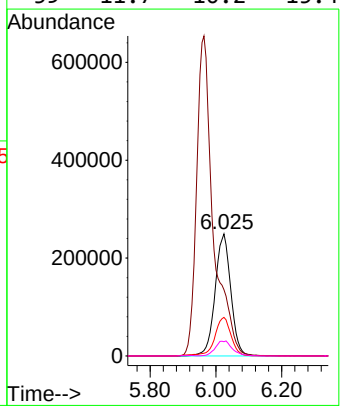


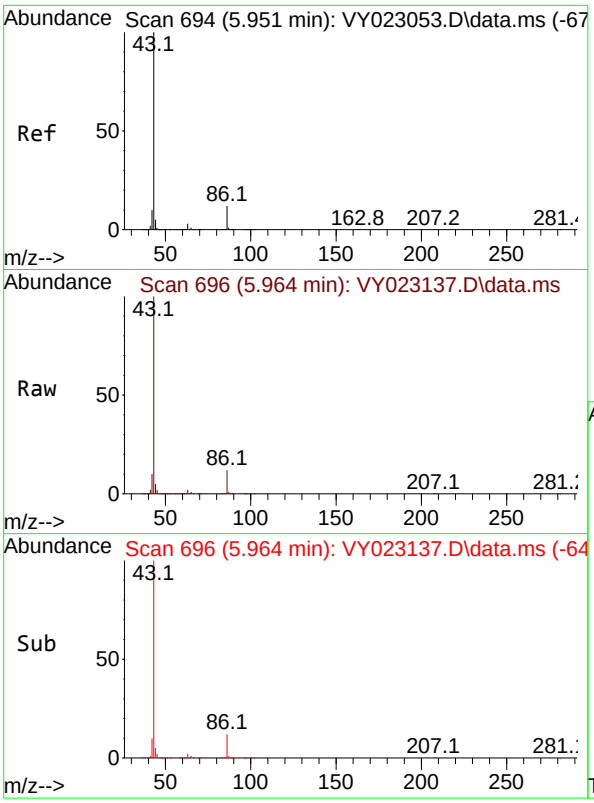




#22
Diisopropyl ether
Concen: 47.793 ug/l
RT: 6.025 min Scan# 706
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 45 Resp: 825090

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 54.3 | 43.4 | 65.0 |
| 87 | 31.6 | 24.4 | 36.6 |
| 59 | 11.7 | 10.2 | 15.4 |



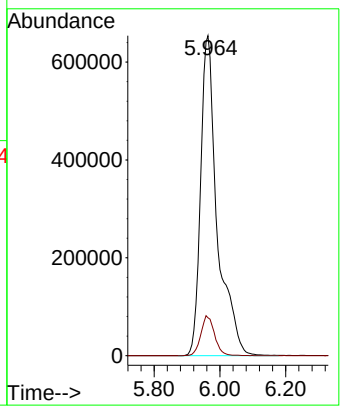


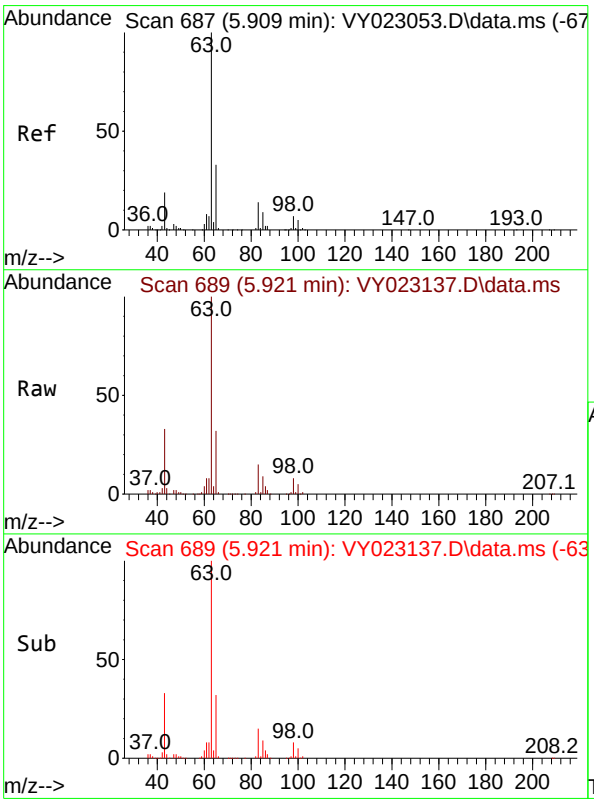

#23
Vinyl Acetate
Concen: 240.761 ug/l
RT: 5.964 min Scan# 6
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 2298296

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.9 | 9.6 | 14.4 |

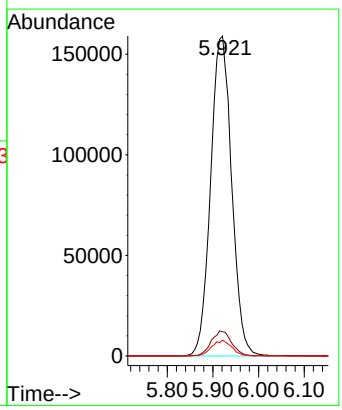


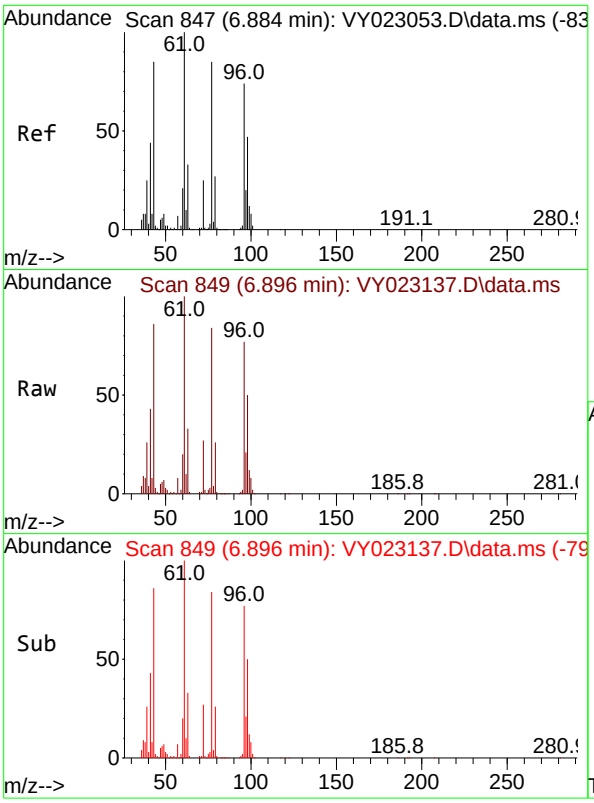




#24
1,1-Dichloroethane
Concen: 48.199 ug/l
RT: 5.921 min Scan# 689
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 63 Resp: 508733

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.6 | 3.5 | 10.6 |
| 100 | 5.0 | 2.4 | 7.1 |



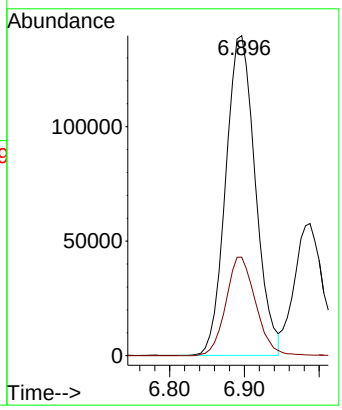


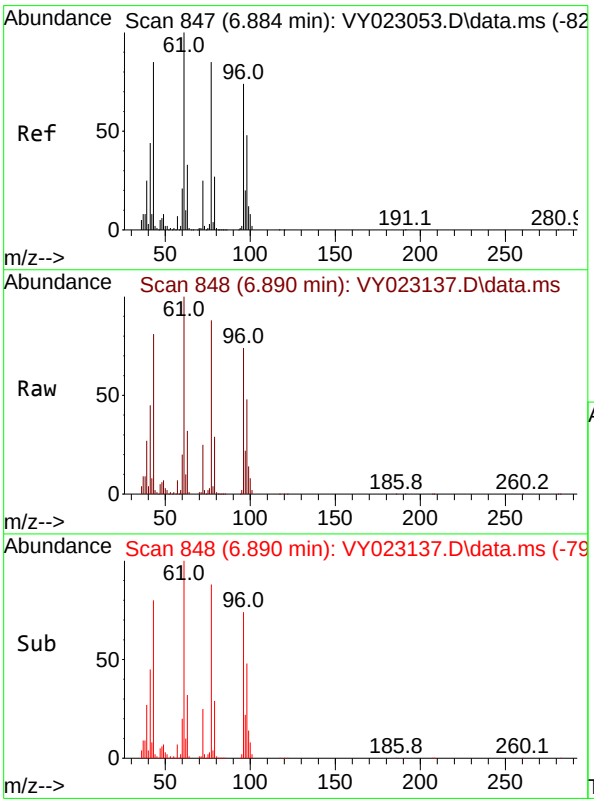

#25
2-Butanone
Concen: 244.351 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 384462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 30.8 | 23.5 | 35.3 |

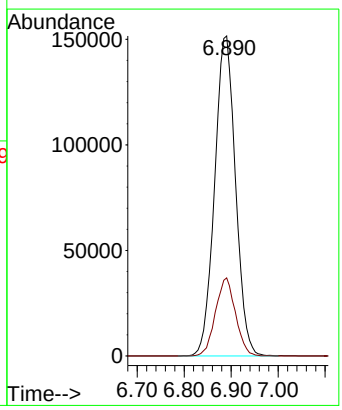


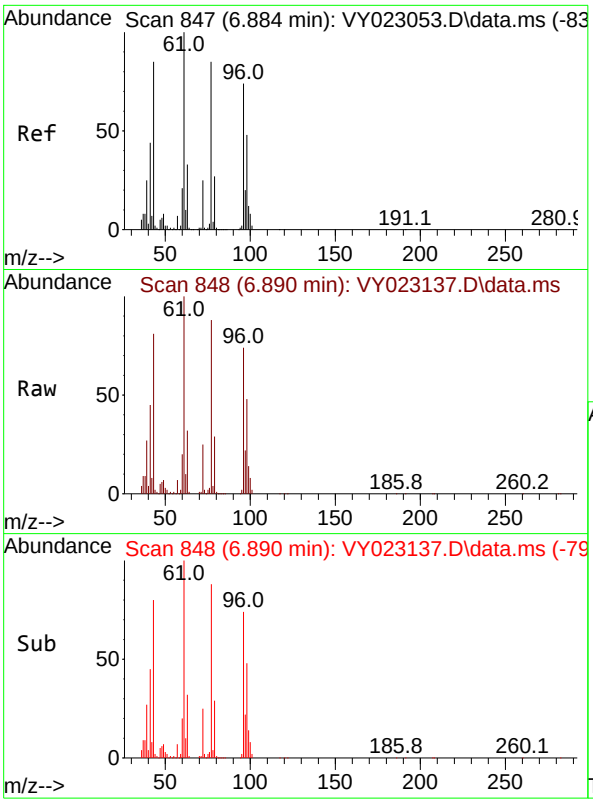




#26
2,2-Dichloropropane
Concen: 51.414 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 77 Resp: 468257

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.4 | 11.6 | 34.8 |



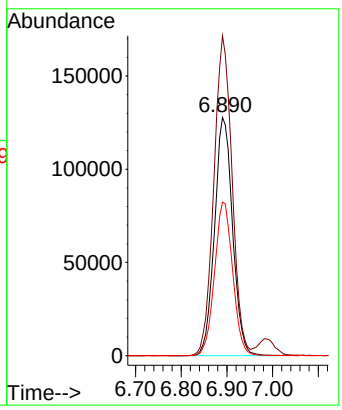


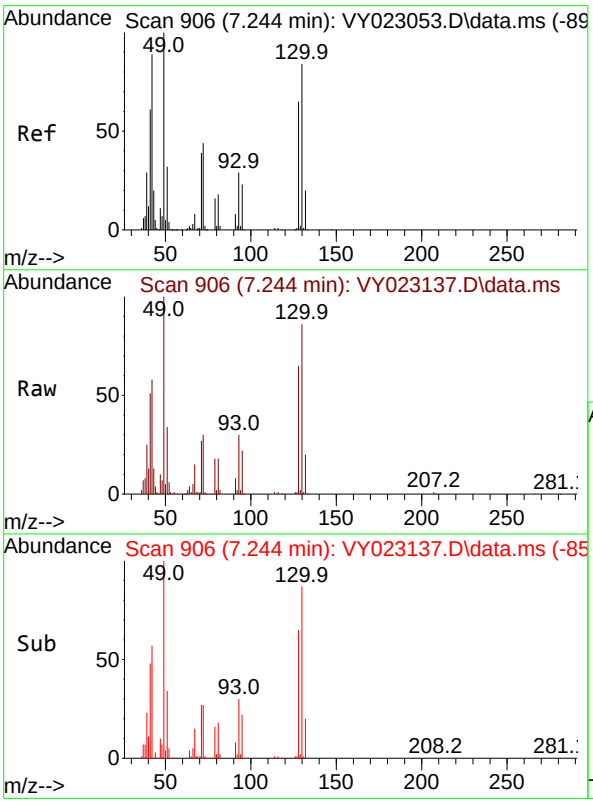

#27
cis-1,2-Dichloroethene
Concen: 50.042 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 96 Resp: 351019

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 135.5 | 0.0 | 278.6 |
| 98 | 64.8 | 0.0 | 130.4 |

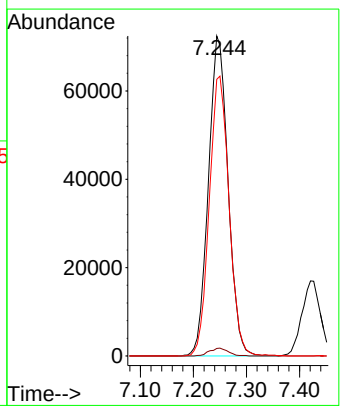


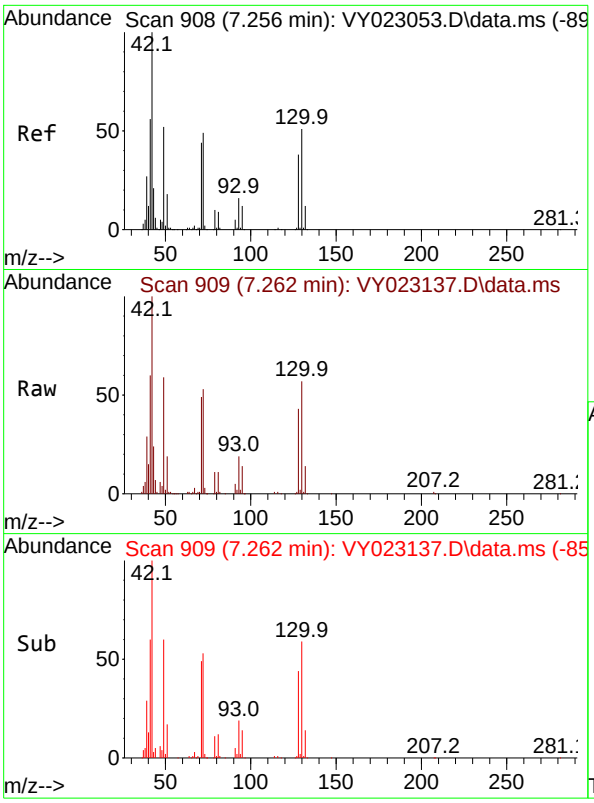




#28
Bromochloromethane
Concen: 44.509 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 49 Resp: 186381

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.3 | 0.0 | 4.2 |
| 130 | 87.8 | 66.4 | 99.6 |



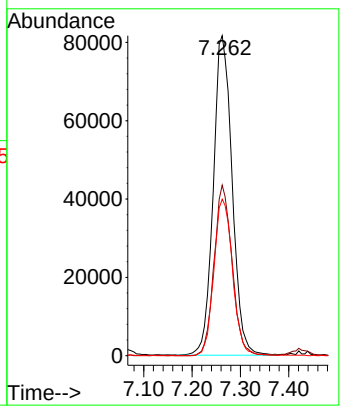


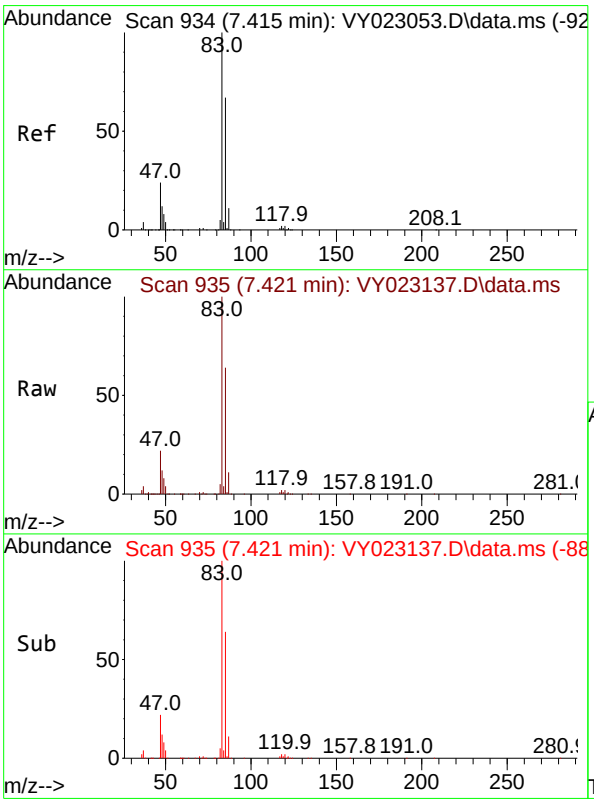

#29
Tetrahydrofuran
Concen: 226.737 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 42 Resp: 221133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 51.1 | 39.4 | 59.2 |
| 71 | 48.6 | 36.5 | 54.7 |

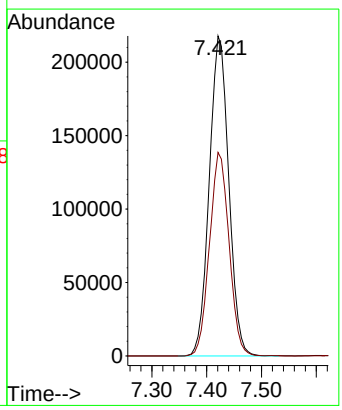


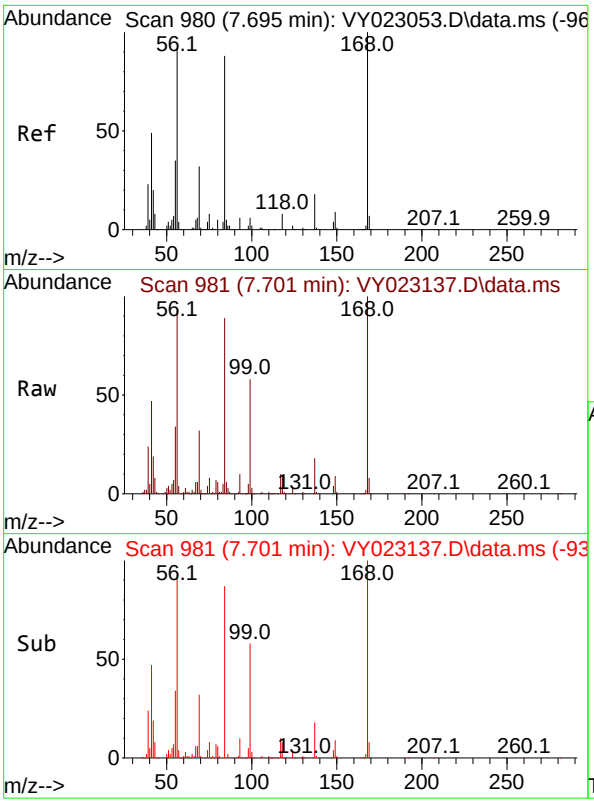




#30
Chloroform
Concen: 49.287 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 83 Resp: 536519

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.6 | 53.8 | 80.8 |



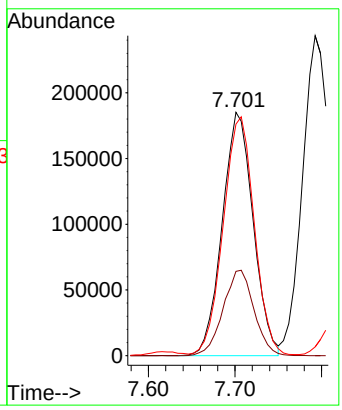


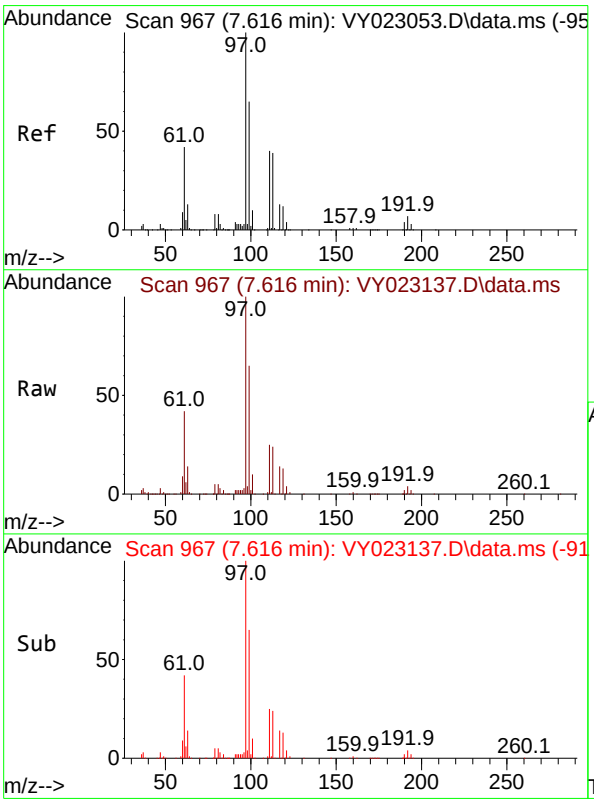

#31
Cyclohexane
Concen: 46.269 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 56 Resp: 460210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 34.6 | 28.2 | 42.2 |
| 84 | 94.2 | 76.6 | 114.8 |

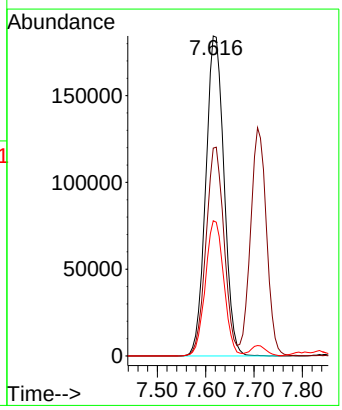


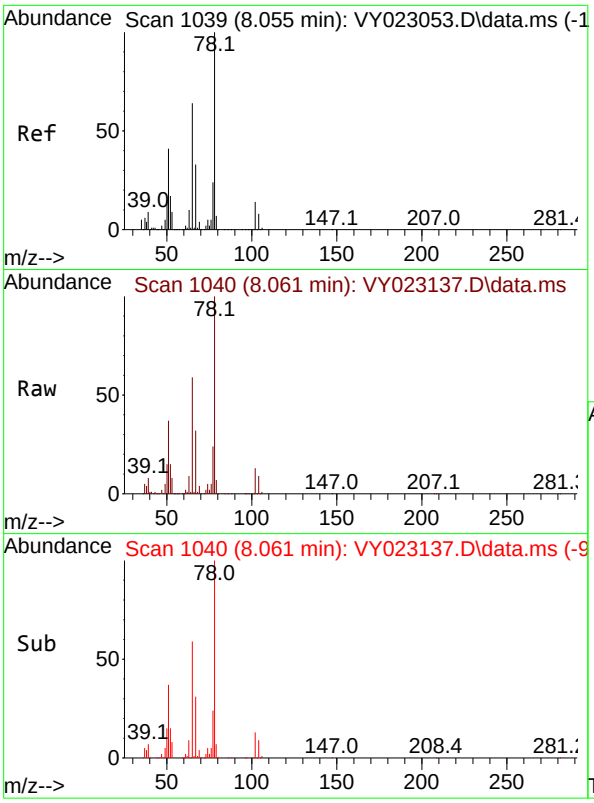




#32
1,1,1-Trichloroethane
Concen: 50.106 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 97 Resp: 483961

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.5 | 51.6 | 77.4 |
| 61 | 42.7 | 34.2 | 51.2 |



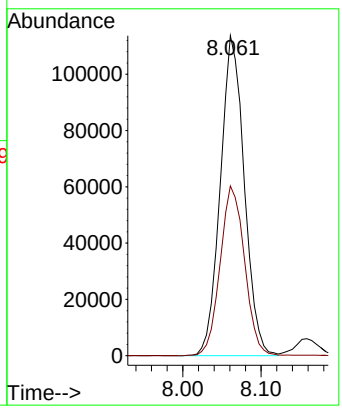


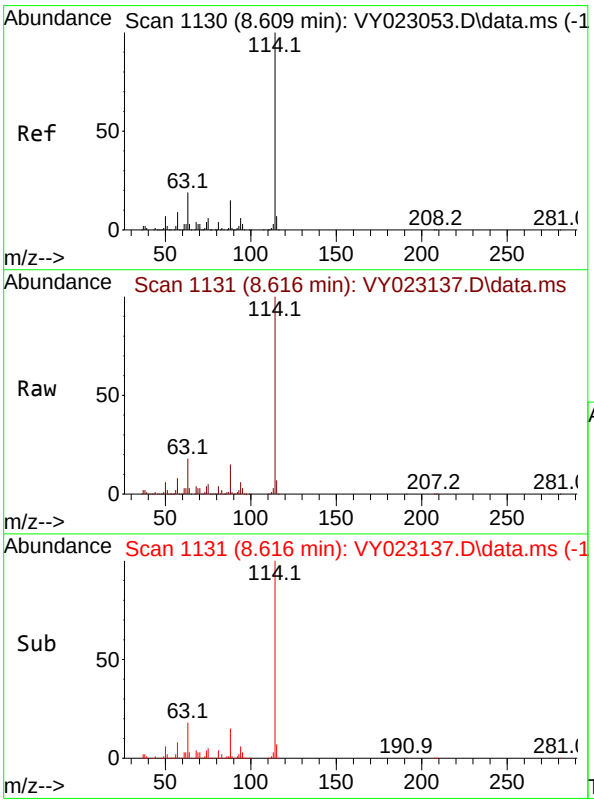

#33
1,2-Dichloroethane-d4
Concen: 45.256 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 65 Resp: 241668

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 54.3 | 0.0 | 106.8 |

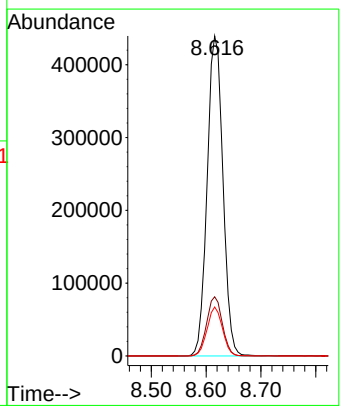


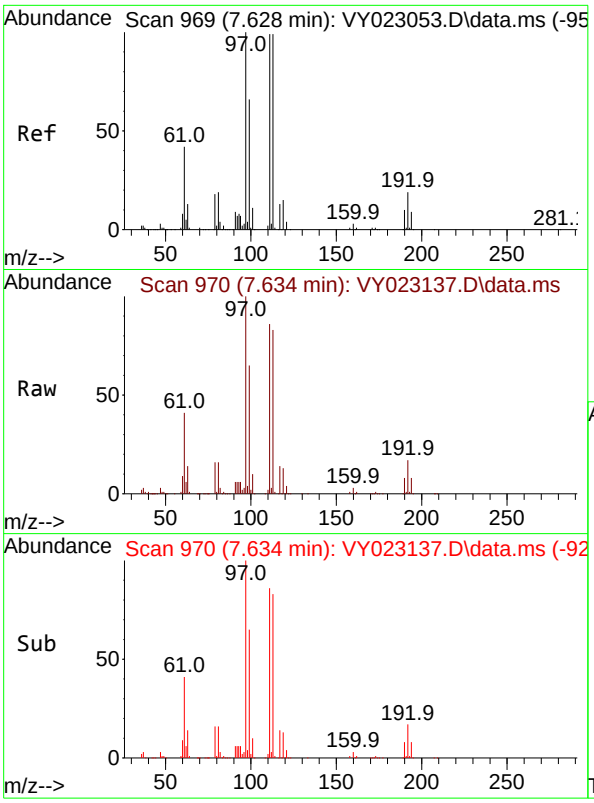




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:114 Resp: 876189

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.5 | 0.0 | 38.4 |
| 88 | 15.3 | 0.0 | 30.0 |



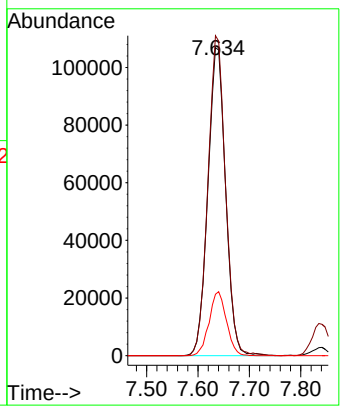


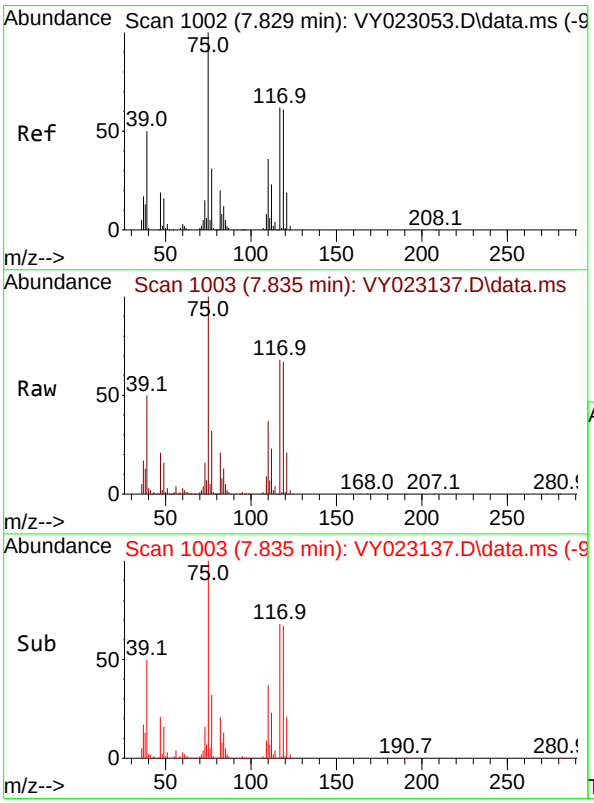

#35
Dibromofluoromethane
Concen: 48.854 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:113 Resp: 256133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.6 | 81.1 | 121.7 |
| 192 | 20.3 | 16.2 | 24.4 |

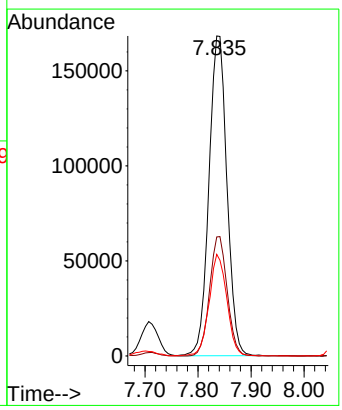


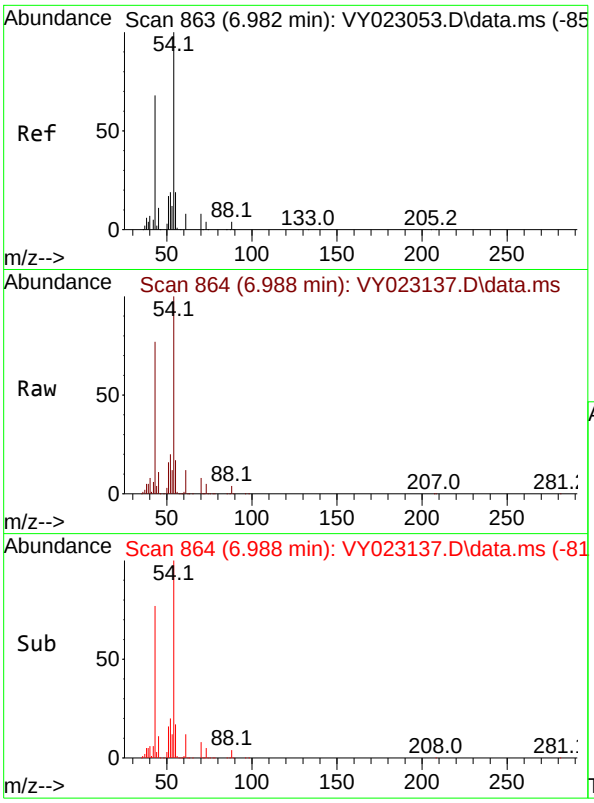




#36
1,1-Dichloropropene
Concen: 50.818 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 75 Resp: 395952

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 36.7 | 18.1 | 54.4 |
| 77 | 31.3 | 24.6 | 37.0 |



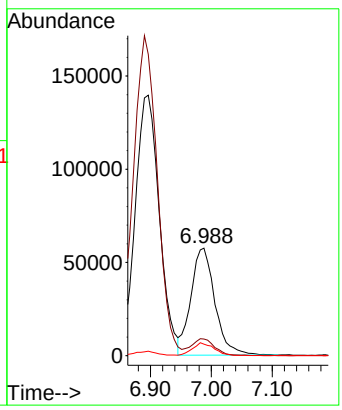


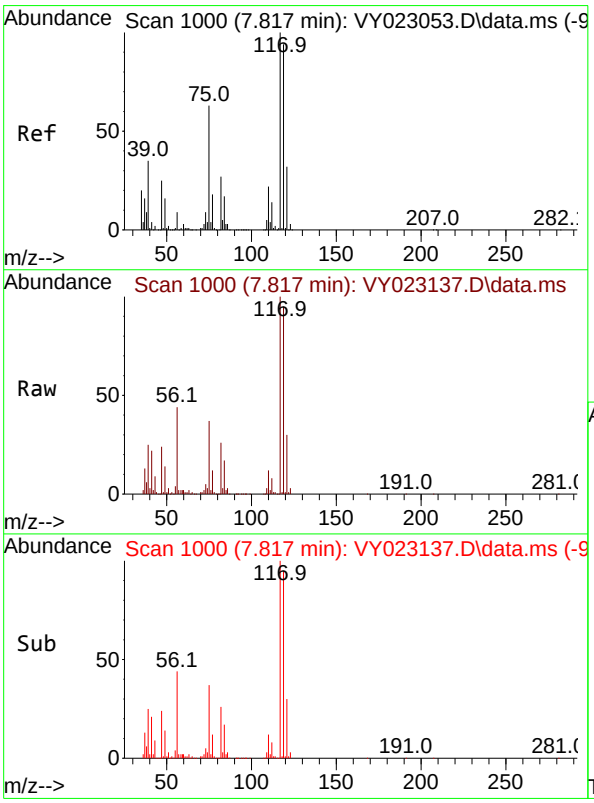

#37
Ethyl Acetate
Concen: 48.006 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 157126

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.5 | 11.9 | 17.9 |
| 70 | 11.1 | 8.8 | 13.2 |

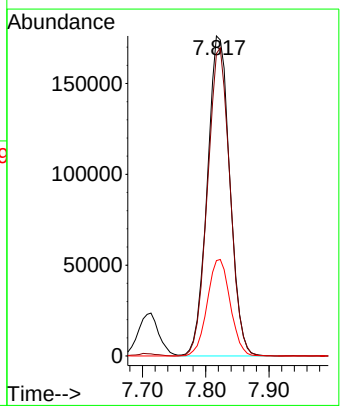


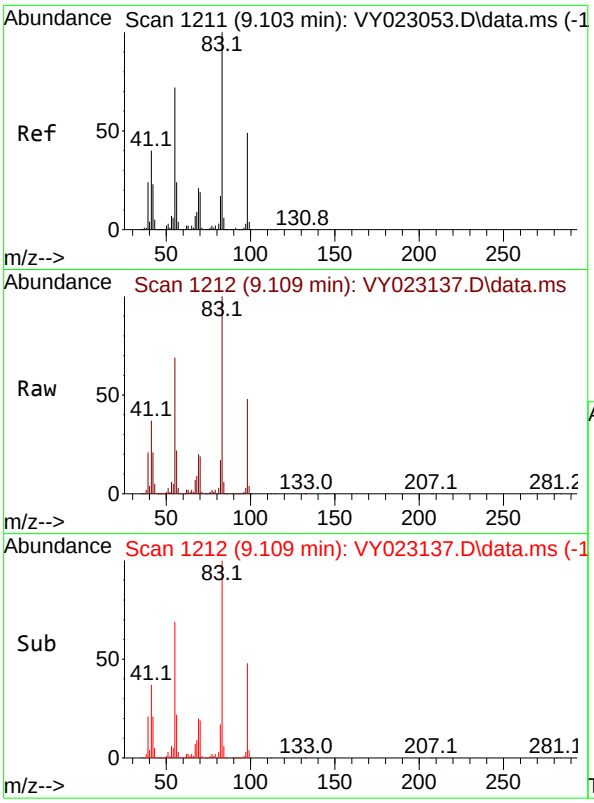




#38
Carbon Tetrachloride
Concen: 51.581 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:117 Resp: 436510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.5 | 75.6 | 113.4 |
| 121 | 29.8 | 25.8 | 38.8 |



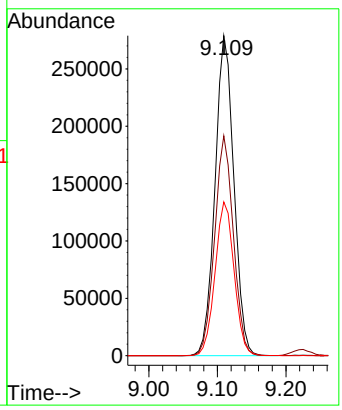


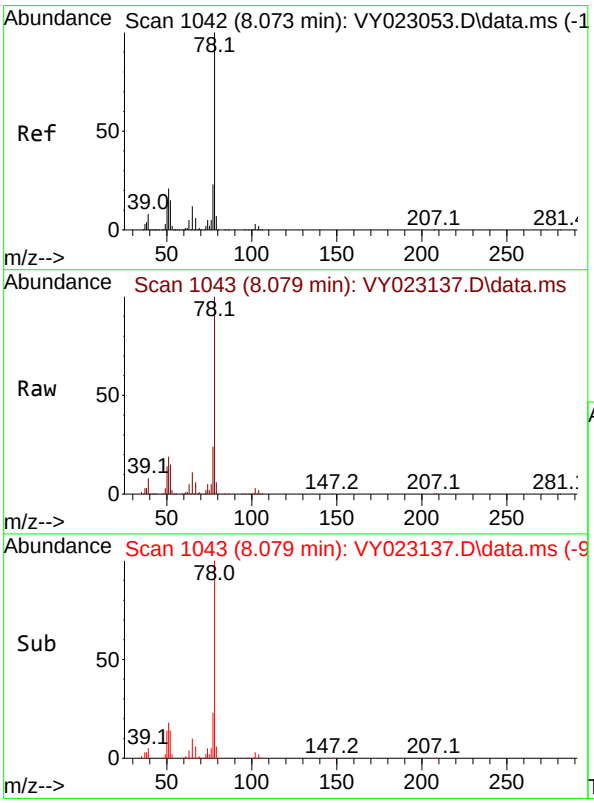

#39
Methylcyclohexane
Concen: 51.832 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 83 Resp: 531826

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 68.7 | 57.6 | 86.4 |
| 98 | 48.0 | 39.2 | 58.8 |

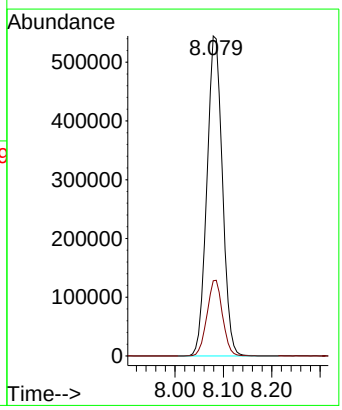


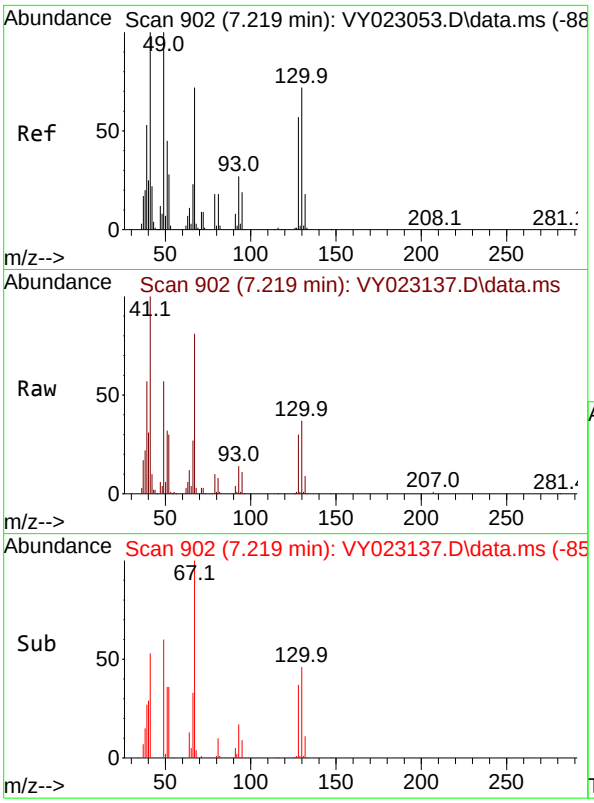




#40
Benzene
Concen: 50.401 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 78 Resp: 1210380

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.5 | 18.6 | 28.0 |



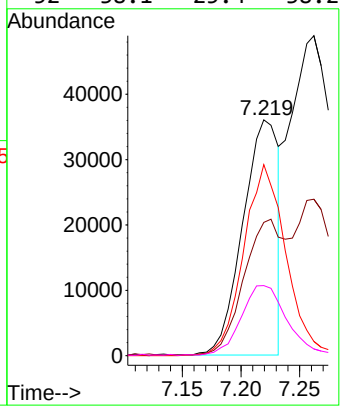


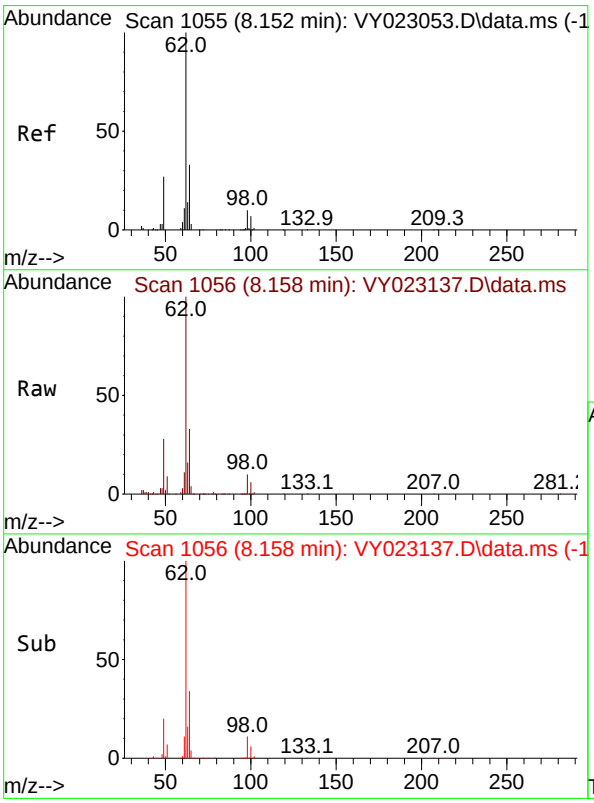

#41
Methacrylonitrile
Concen: 40.191 ug/l
RT: 7.219 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 41 Resp: 75919

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 65.0 | 43.4 | 65.2 |
| 67 | 96.5 | 63.6 | 95.4# |
| 52 | 38.1 | 25.4 | 38.2 |

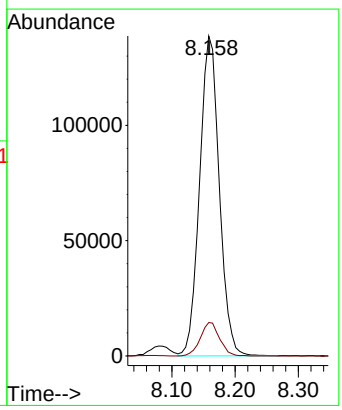


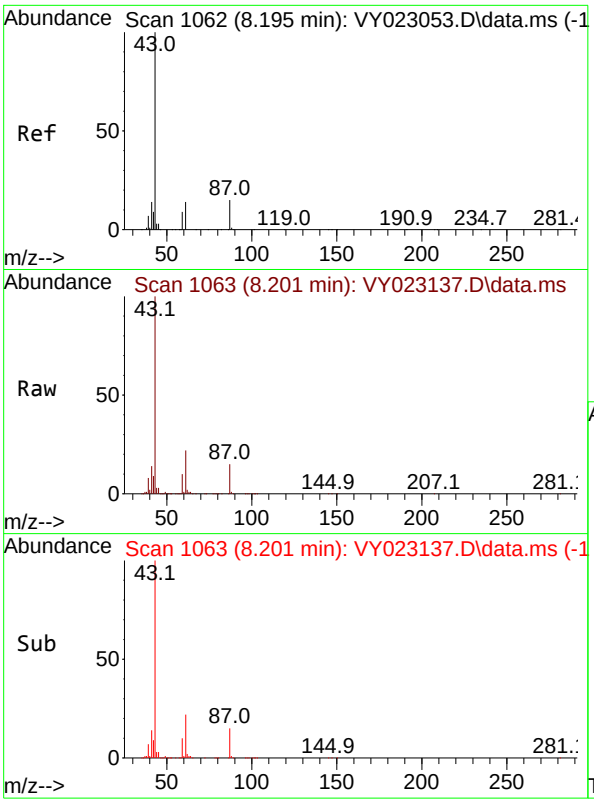




#42
1,2-Dichloroethane
Concen: 48.044 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 62 Resp: 300070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.2 | 0.0 | 20.6 |



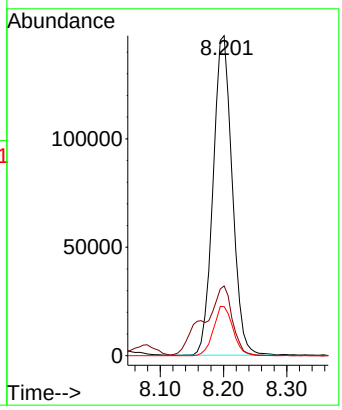


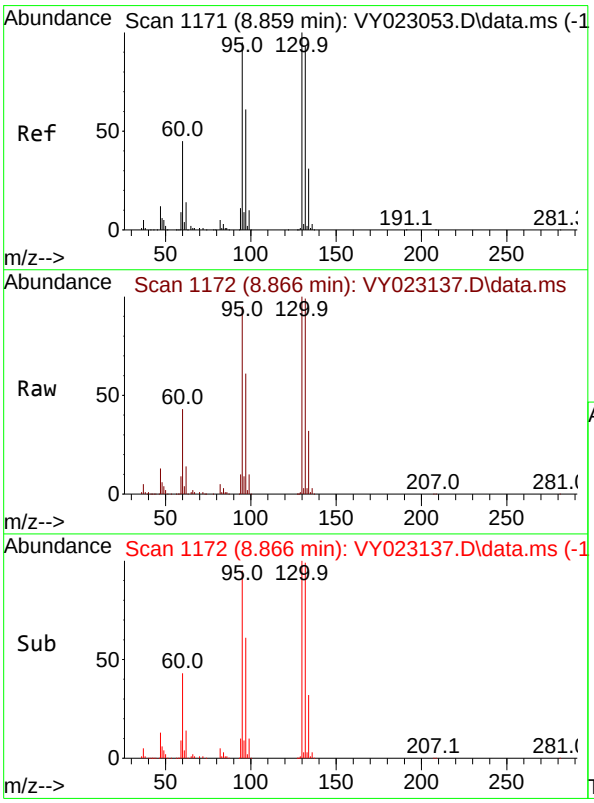

#43
Isopropyl Acetate
Concen: 46.703 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 308955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 32.2 | 16.4 | 24.6# |
| 87 | 15.7 | 11.8 | 17.6 |

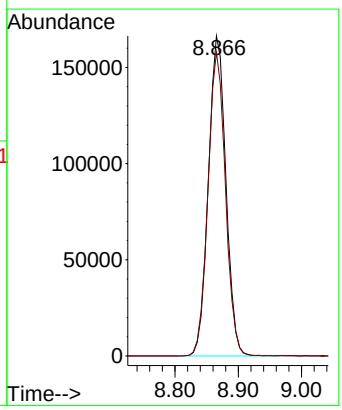


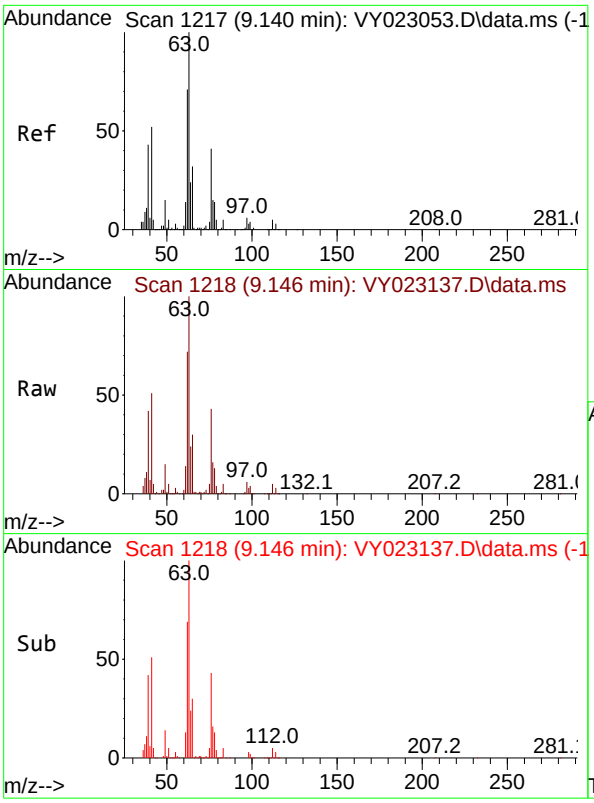




#44
Trichloroethene
Concen: 51.463 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:130 Resp: 319381

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 95.0 | 0.0 | 190.2 |



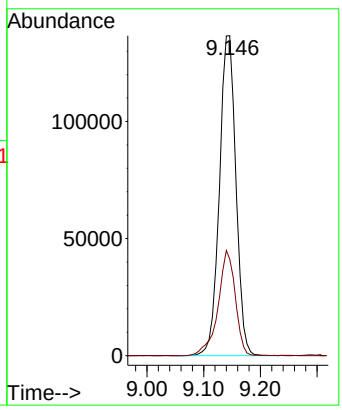


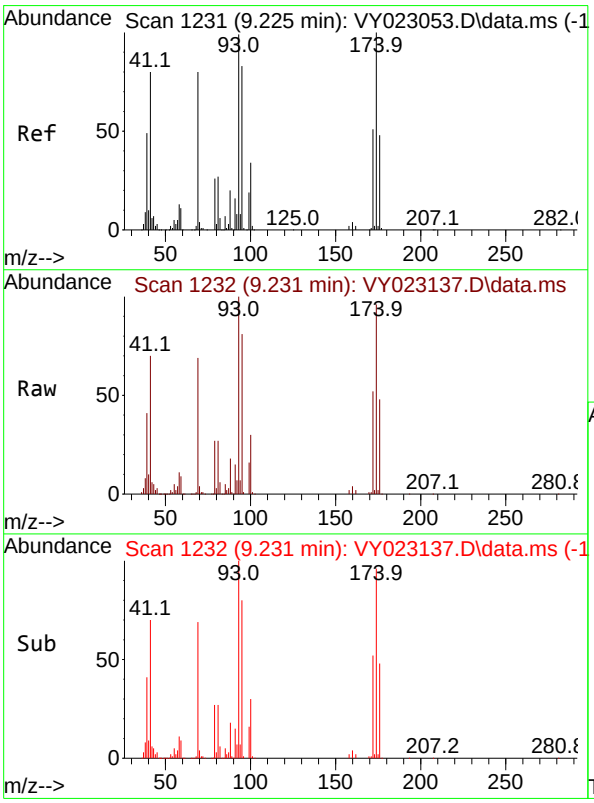

#45
1,2-Dichloropropane
Concen: 50.044 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 63 Resp: 276520

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.2 | 25.3 | 37.9 |

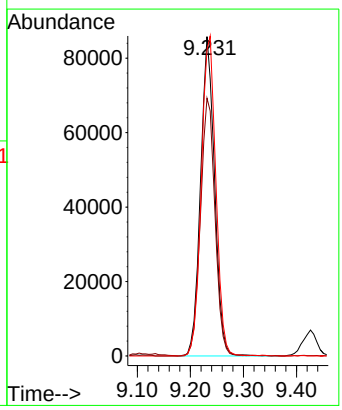


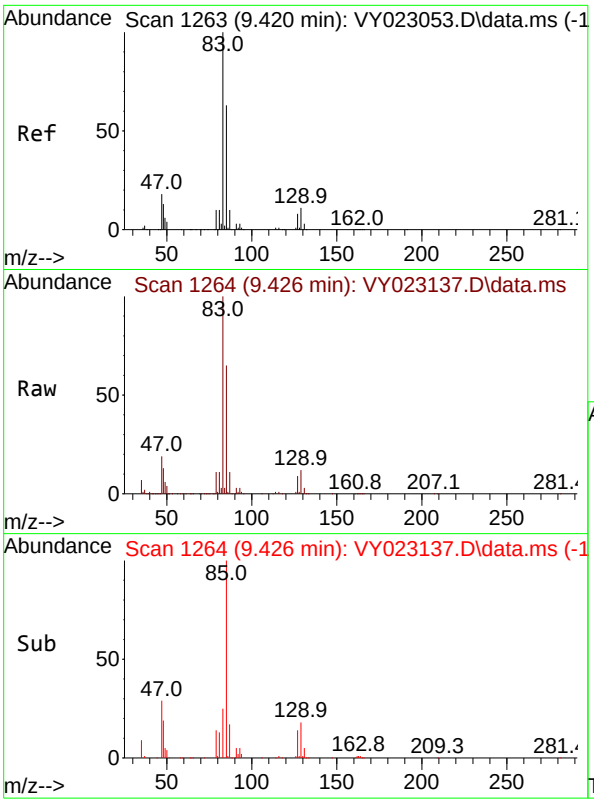




#46
Dibromomethane
Concen: 49.637 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 93 Resp: 157422

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 83.8 | 66.5 | 99.7 |
| 174 | 103.7 | 81.8 | 122.8 |



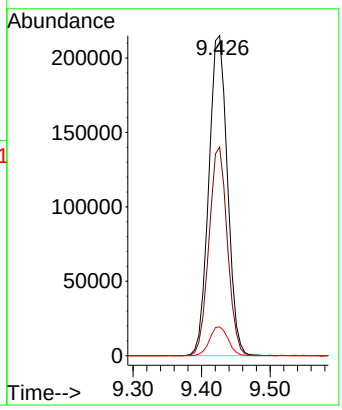


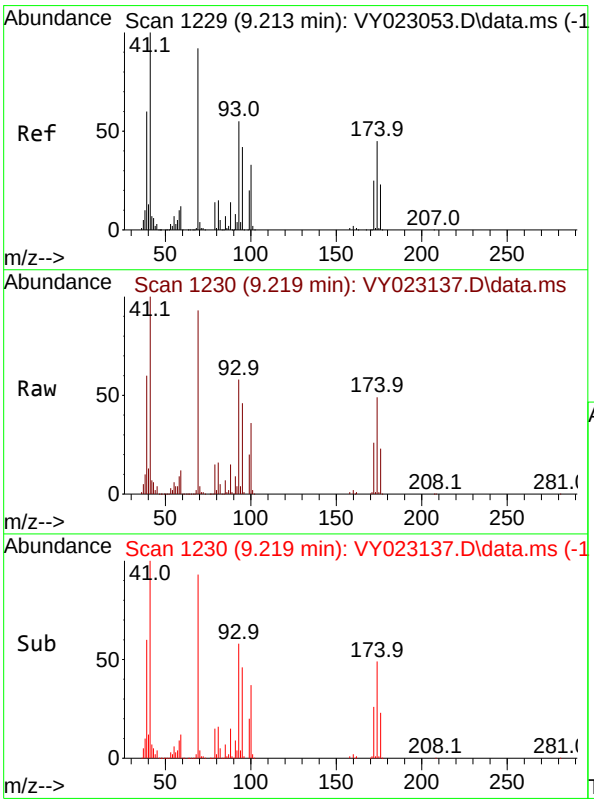

#47
Bromodichloromethane
Concen: 49.781 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 83 Resp: 406246

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.2 | 50.2 | 75.4 |
| 127 | 9.0 | 6.6 | 10.0 |

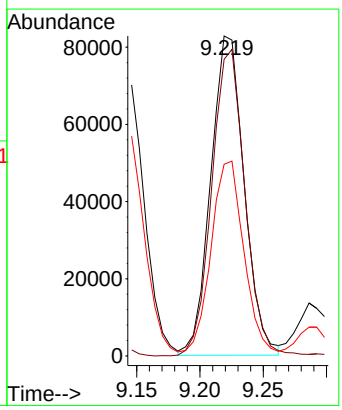


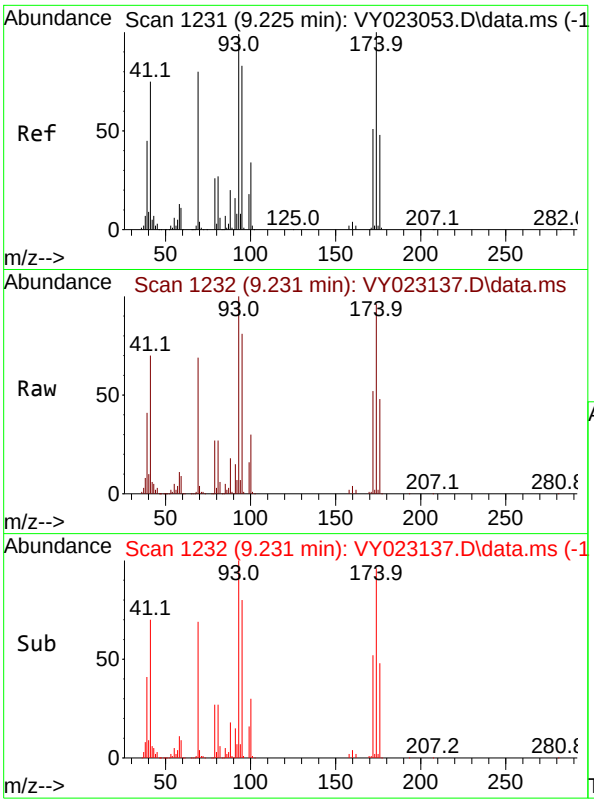




#48
Methyl methacrylate
Concen: 48.023 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 41 Resp: 152020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 95.3 | 73.2 | 109.8 |
| 39 | 58.1 | 47.0 | 70.4 |



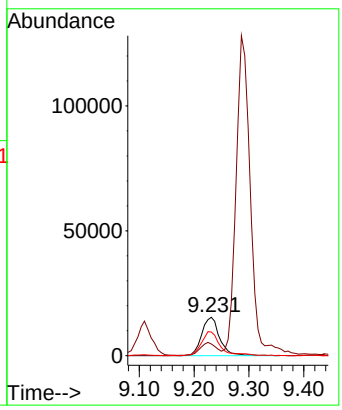


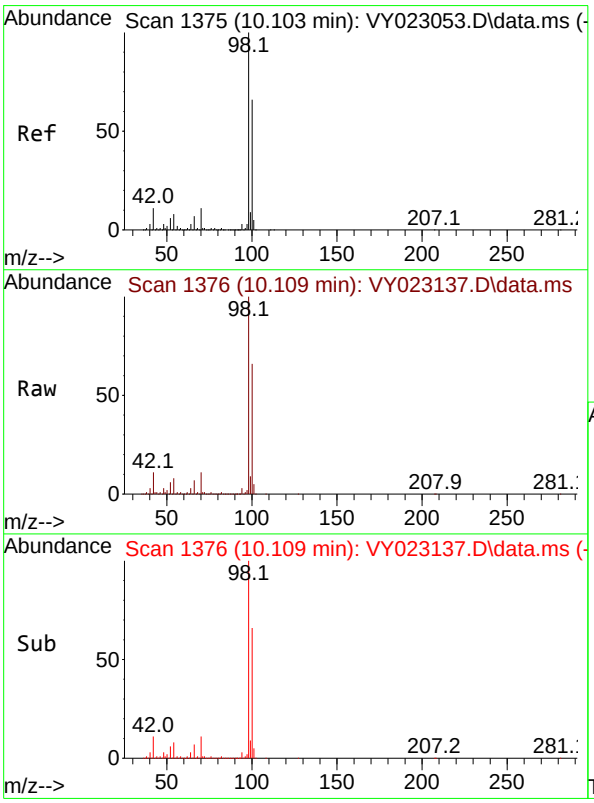

#49
1,4-Dioxane
Concen: 934.713 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 88 Resp: 34759

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 30.0 | 24.3 | 36.5 |
| 58 | 65.6 | 55.4 | 83.0 |

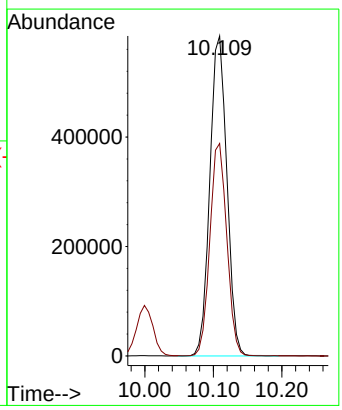


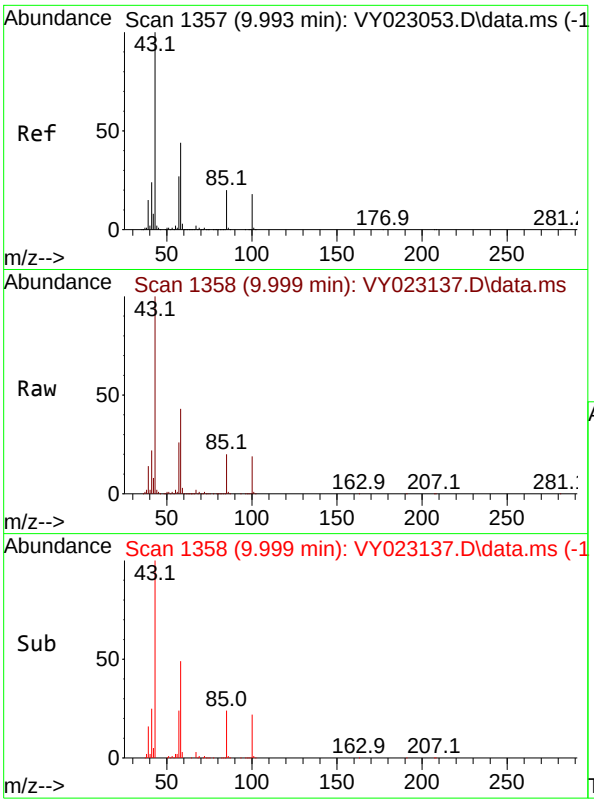




#50
Toluene-d8
Concen: 49.217 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 98 Resp: 1008048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.9 | 52.3 | 78.5 |



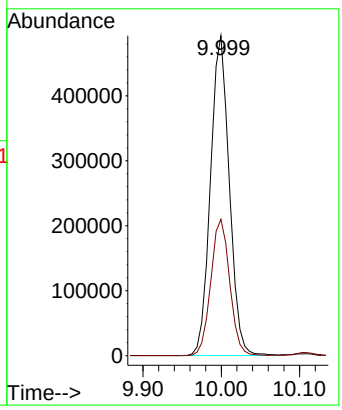


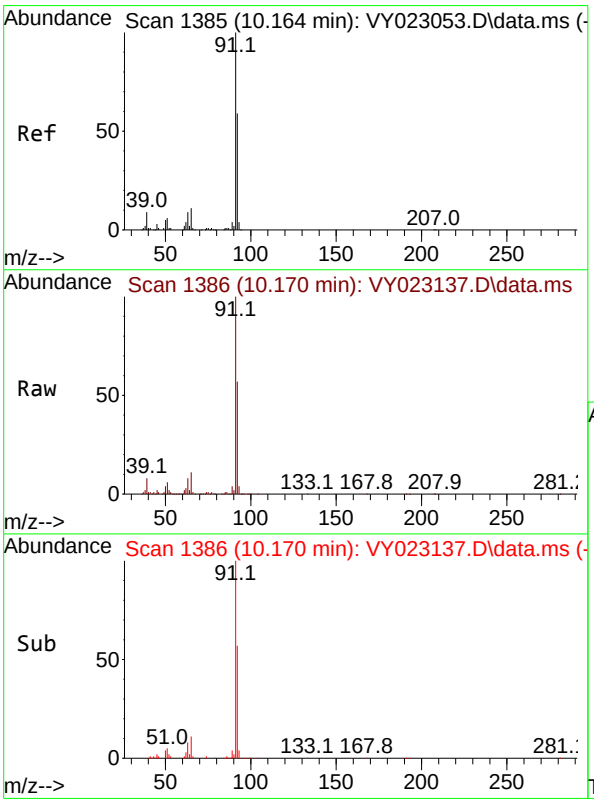

#51
4-Methyl-2-Pentanone
Concen: 240.906 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 822061

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 43.0 | 33.5 | 50.3 |

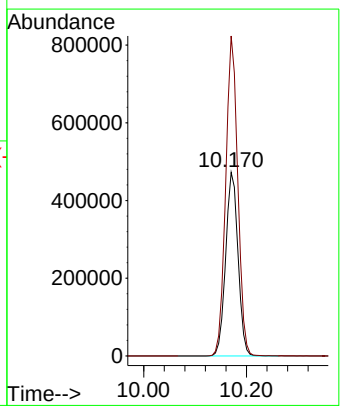


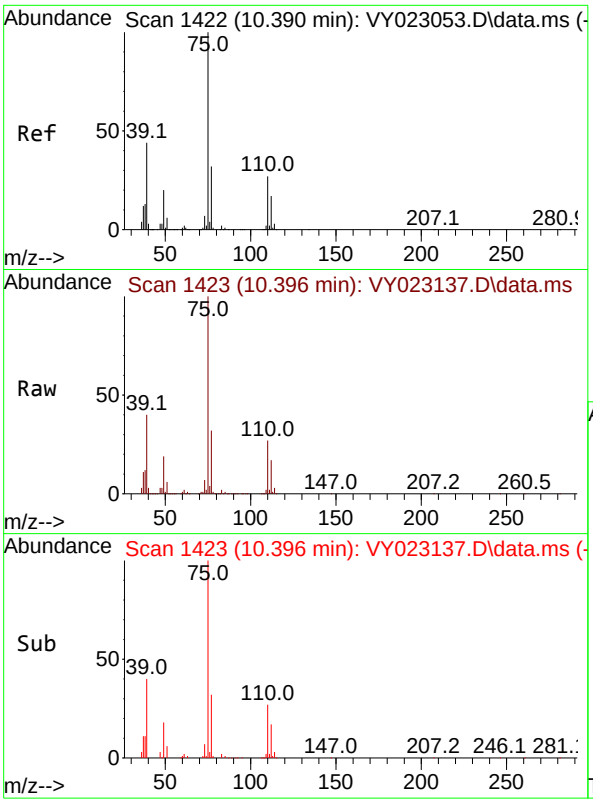




#52
Toluene
Concen: 51.669 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 92 Resp: 788070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 170.0 | 136.4 | 204.6 |



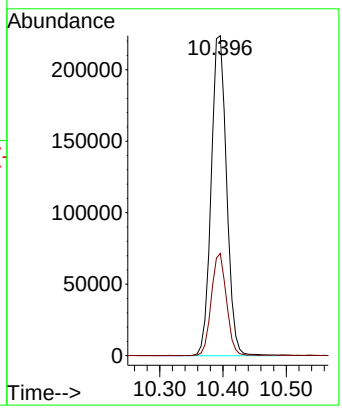


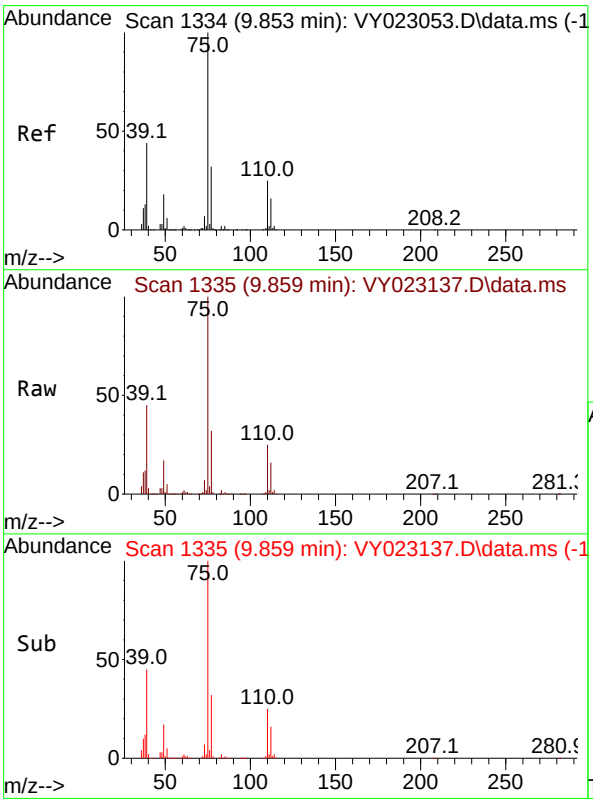

#53
t-1,3-Dichloropropene
Concen: 51.112 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 75 Resp: 377708

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.9 | 25.7 | 38.5 |

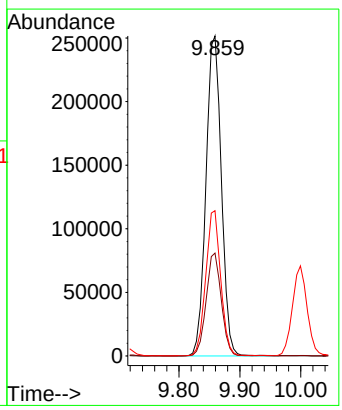


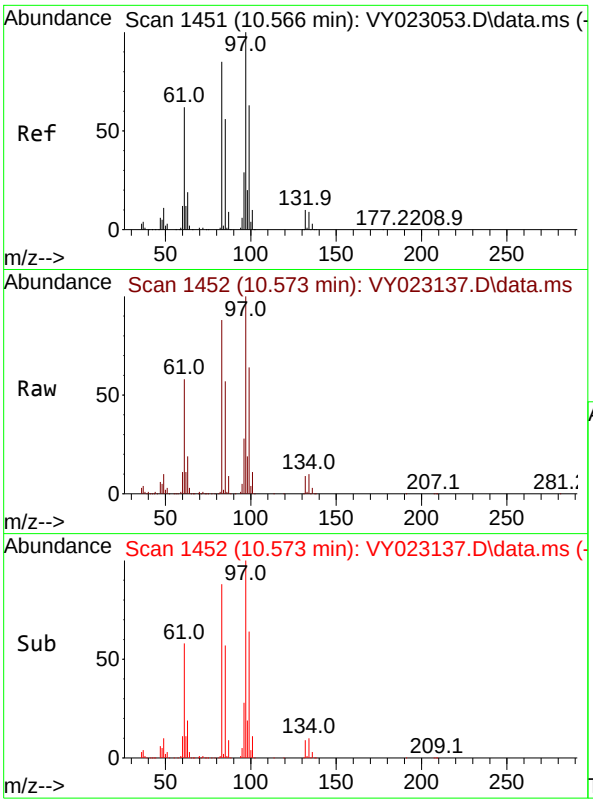




#54
cis-1,3-Dichloropropene
Concen: 50.516 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 75 Resp: 441435

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.1 | 25.4 | 38.0 |
| 39 | 45.3 | 35.6 | 53.4 |



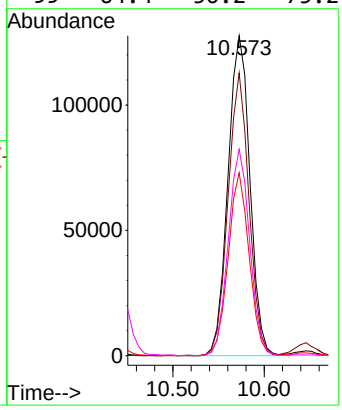


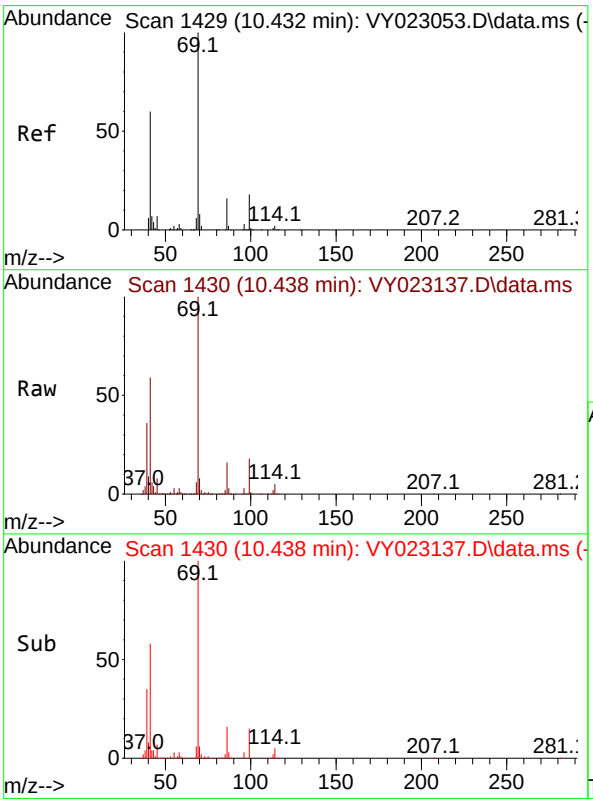

#55
1,1,2-Trichloroethane
Concen: 50.206 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 97 Resp: 213063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 88.4 | 67.7 | 101.5 |
| 85 | 57.1 | 44.5 | 66.7 |
| 99 | 64.4 | 50.2 | 75.2 |

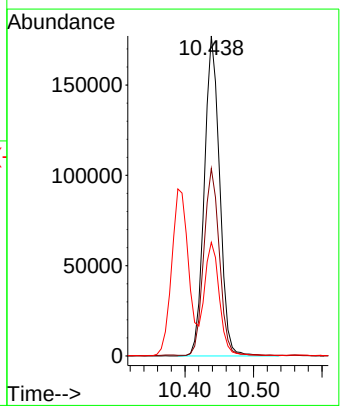


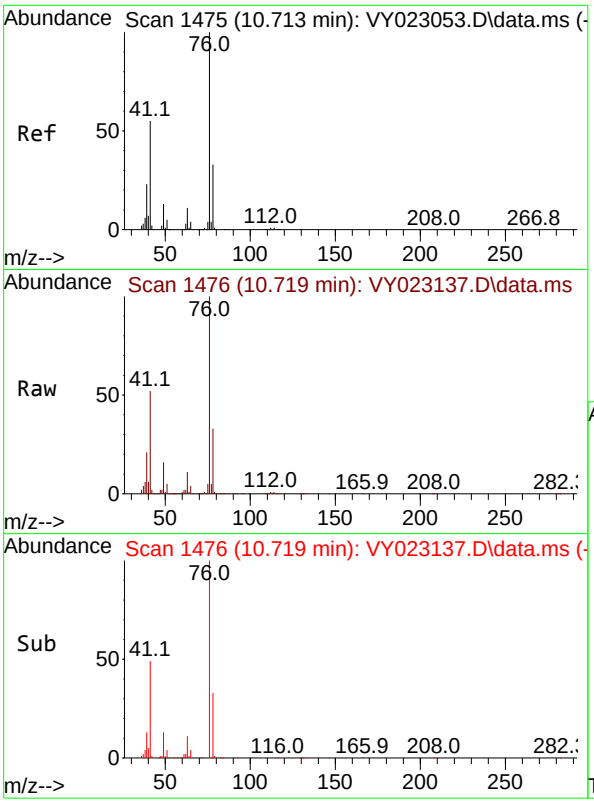




#56
Ethyl methacrylate
Concen: 50.859 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 69 Resp: 276182

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 59.0 | 48.6 | 72.8 |
| 39 | 33.7 | 27.0 | 40.4 |



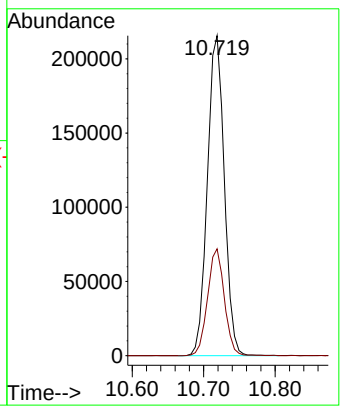


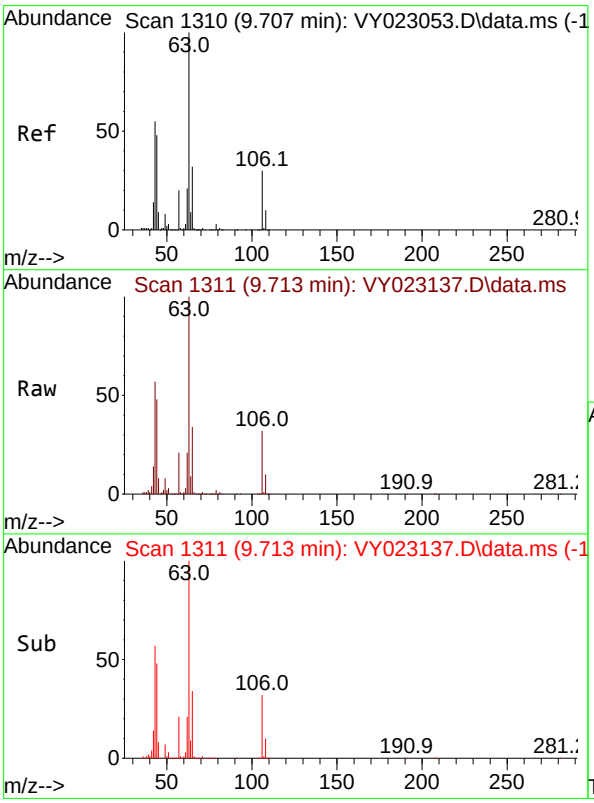

#57
1,3-Dichloropropane
Concen: 49.273 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 76 Resp: 354628

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 33.0 | 26.0 | 39.0 |

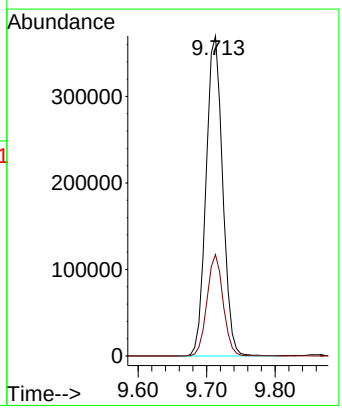


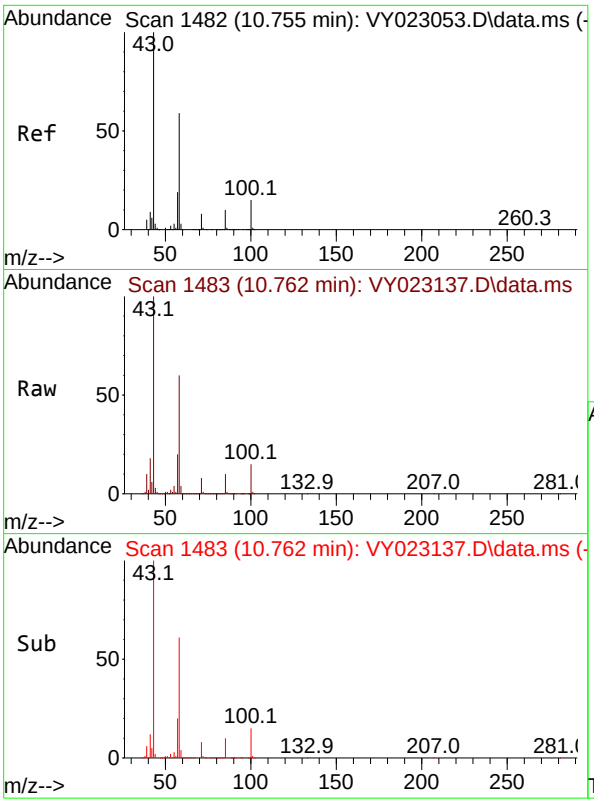




#58
2-Chloroethyl Vinyl ether
Concen: 242.835 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 63 Resp: 622022

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 30.8 | 23.2 | 34.8 |



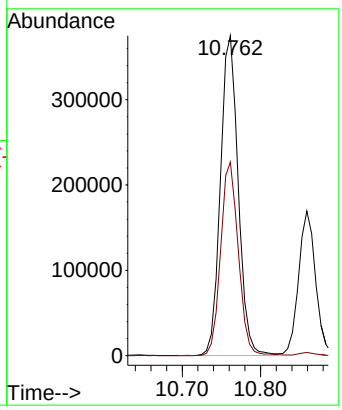


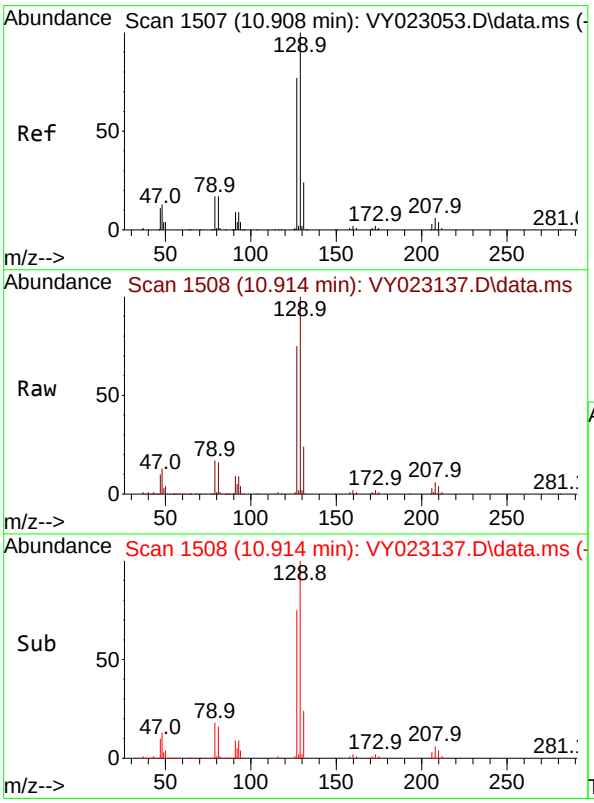

#59
2-Hexanone
Concen: 254.865 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 592202

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 60.2 | 29.5 | 88.5 |

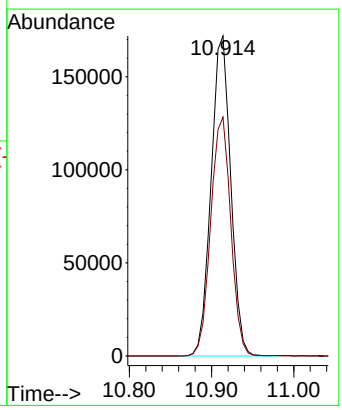


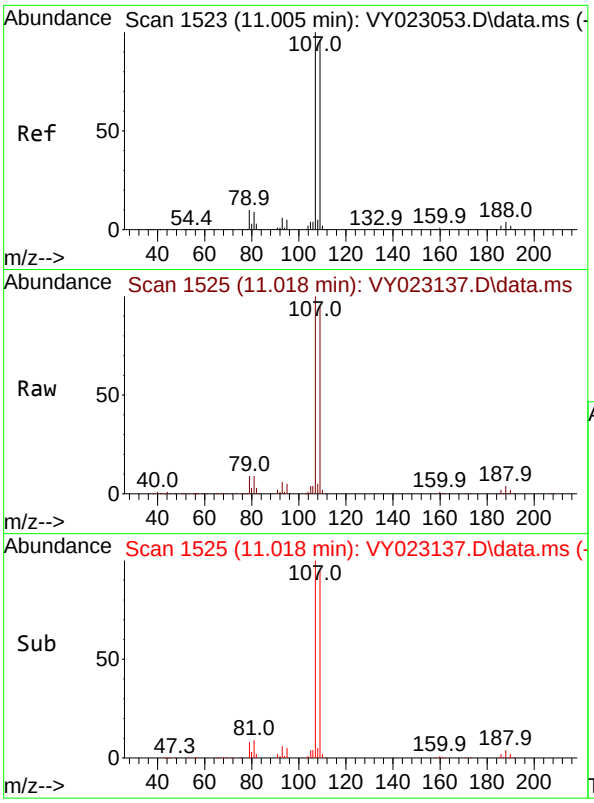




#60
Dibromochloromethane
Concen: 50.963 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:129 Resp: 285374

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 76.2 | 38.5 | 115.5 |



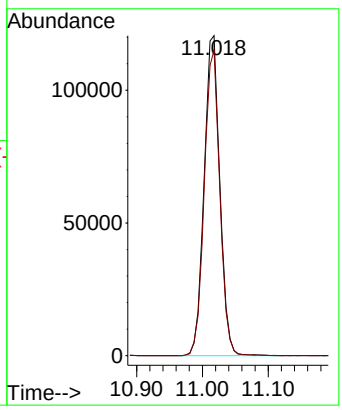


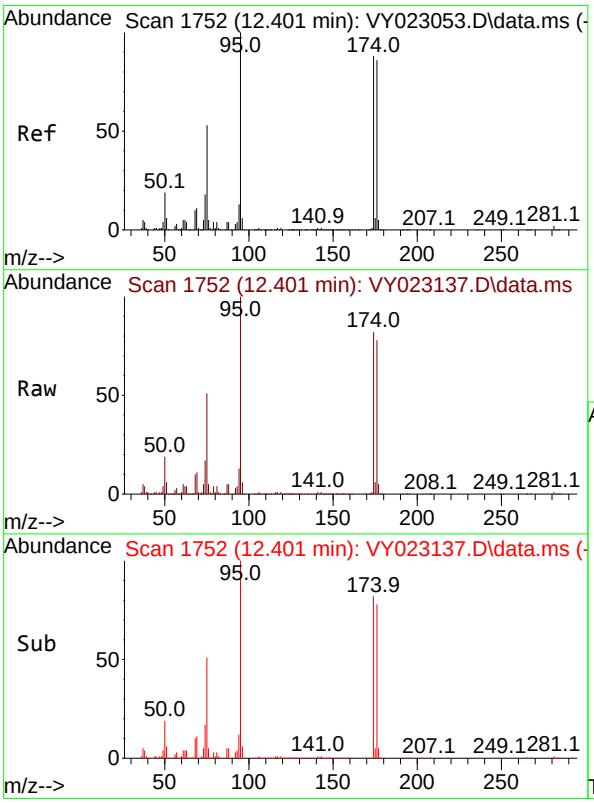

#61
1,2-Dibromoethane
Concen: 50.411 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:107 Resp: 201073

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.2 | 75.6 | 113.4 |

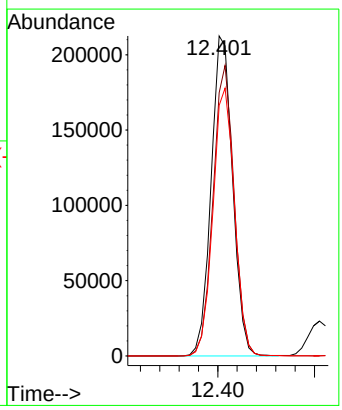


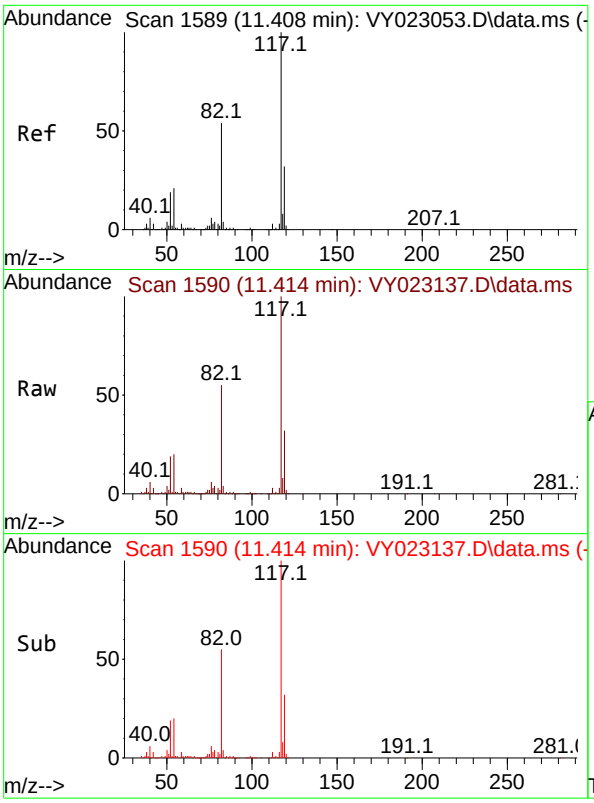




#62
4-Bromofluorobenzene
Concen: 49.618 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 95 Resp: 326827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 89.2 | 0.0 | 171.6 |
| 176 | 84.4 | 0.0 | 167.6 |



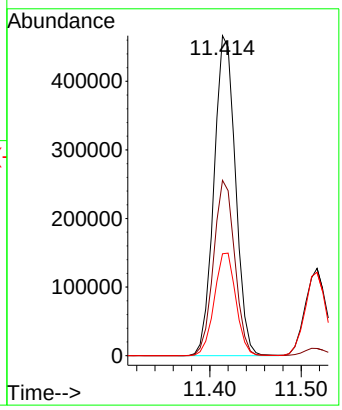


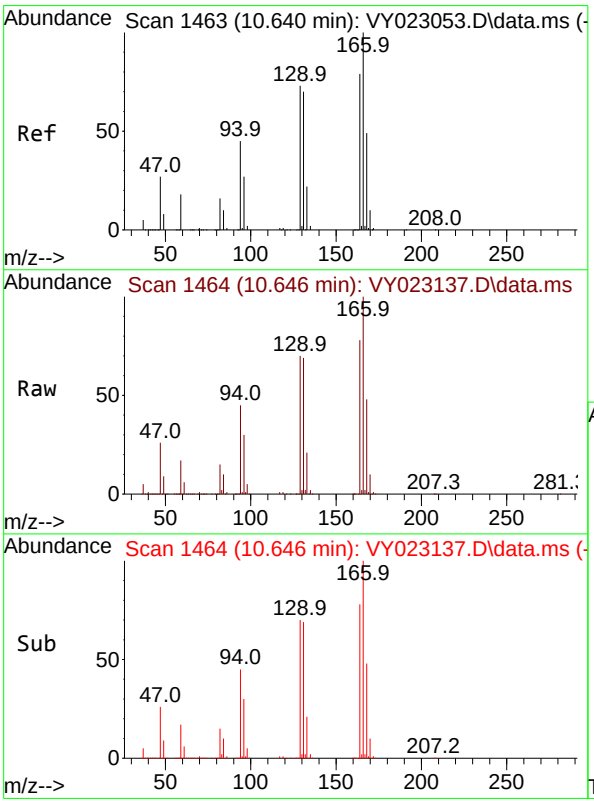

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:117 Resp: 761785

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.8 | 43.4 | 65.0 |
| 119 | 31.8 | 25.6 | 38.4 |

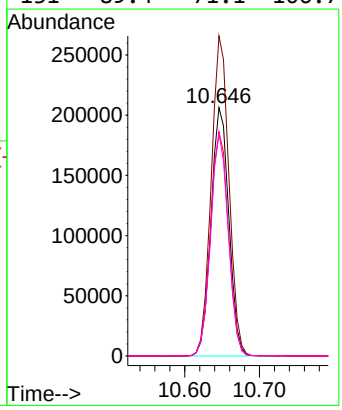


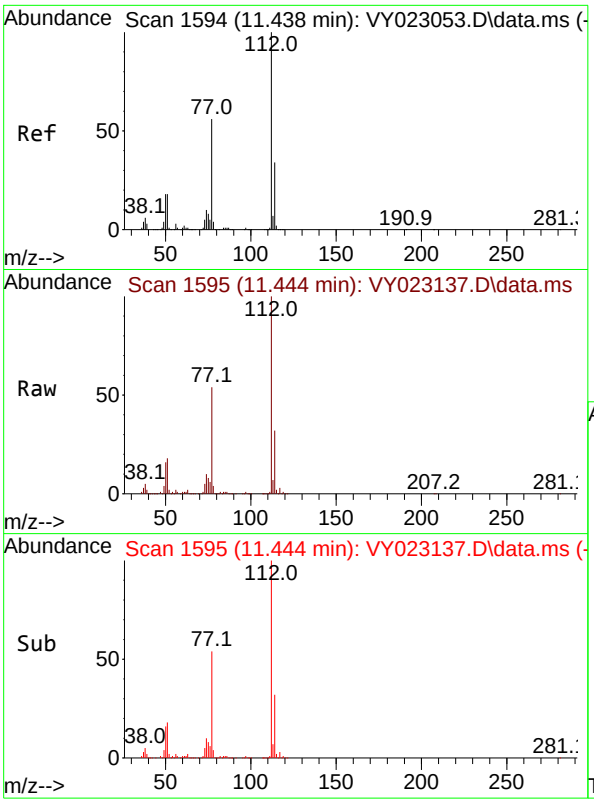




#64
Tetrachloroethene
Concen: 50.340 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:164 Resp: 342427

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 128.9 | 101.1 | 151.7 |
| 129 | 90.3 | 74.0 | 111.0 |
| 131 | 89.4 | 71.1 | 106.7 |



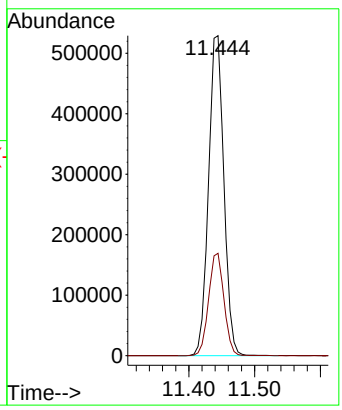


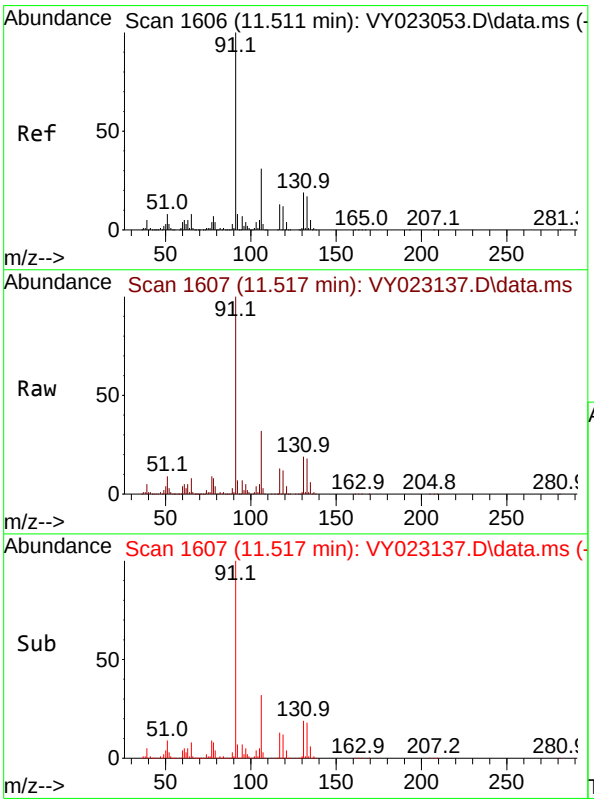

#65
Chlorobenzene
Concen: 52.238 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:112 Resp: 858367

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.0 | 27.0 | 40.4 |

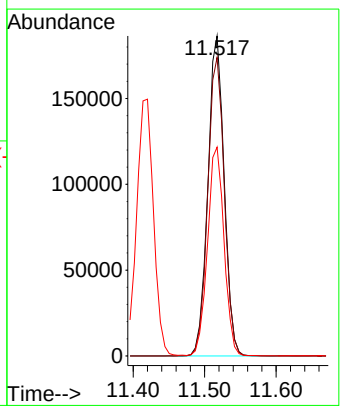


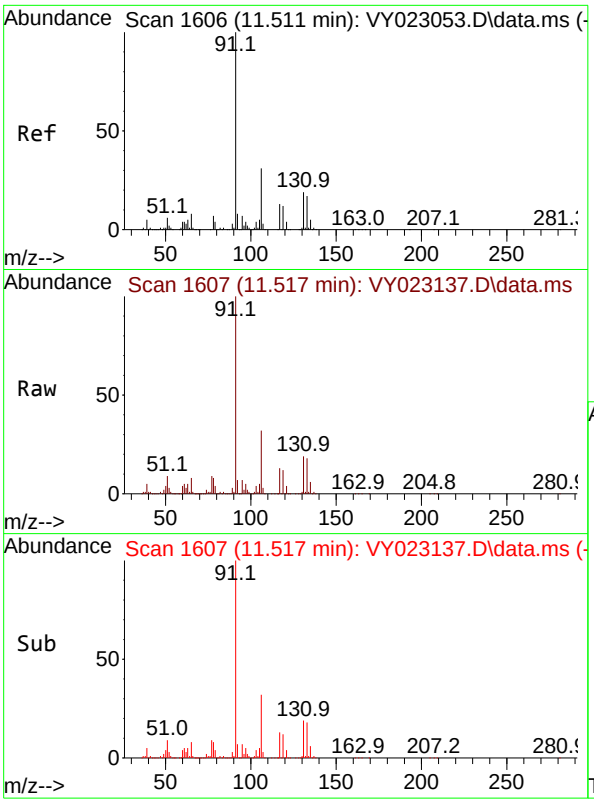




#66
1,1,1,2-Tetrachloroethane
Concen: 52.900 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:131 Resp: 295011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.9 | 46.9 | 140.6 |
| 119 | 66.2 | 33.2 | 99.6 |



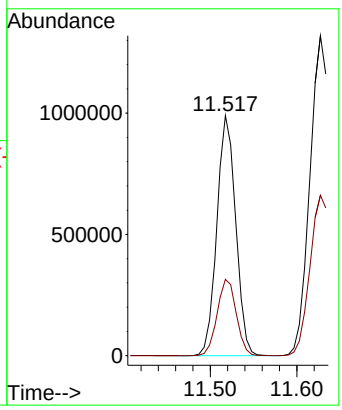


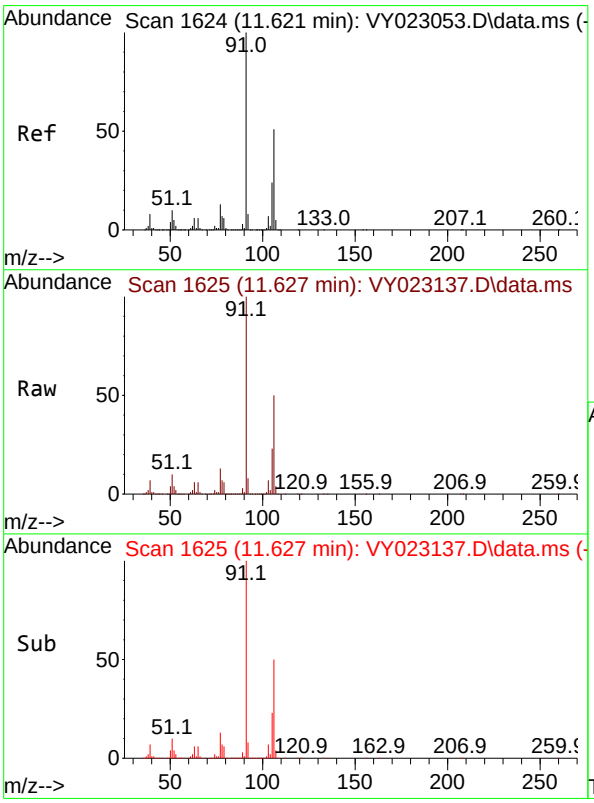

#67
Ethyl Benzene
Concen: 52.850 ug/l
RT: 11.517 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 91 Resp: 1494465

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.8 | 25.0 | 37.4 |

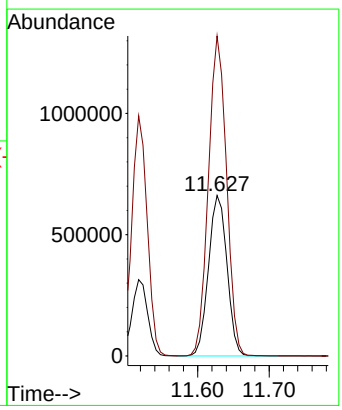


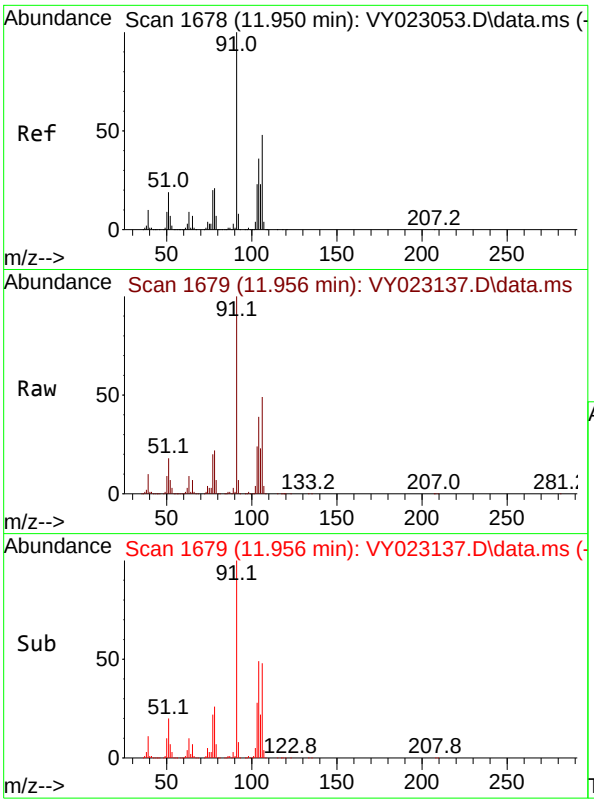




#68
m/p-Xylenes
Concen: 107.397 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:106 Resp: 1186104

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 195.6 | 158.6 | 238.0 |



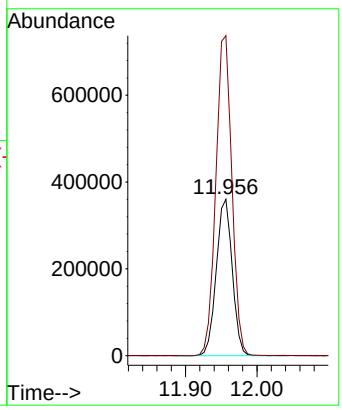


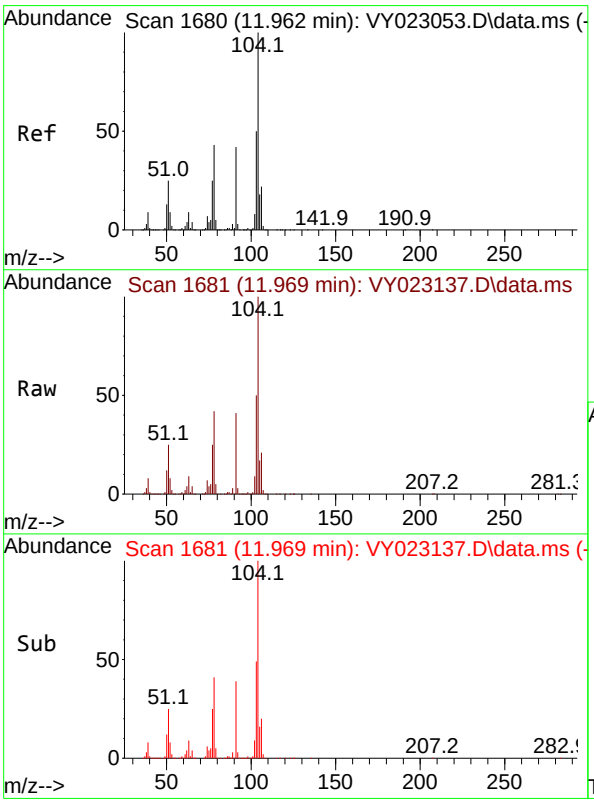

#69
o-Xylene
Concen: 53.940 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:106 Resp: 557951

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 205.8 | 103.2 | 309.4 |

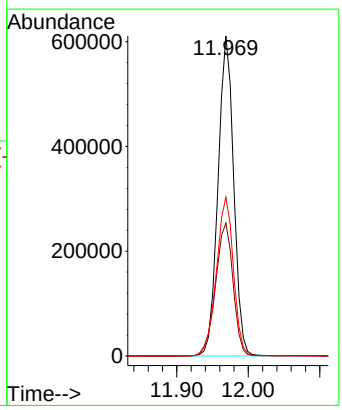


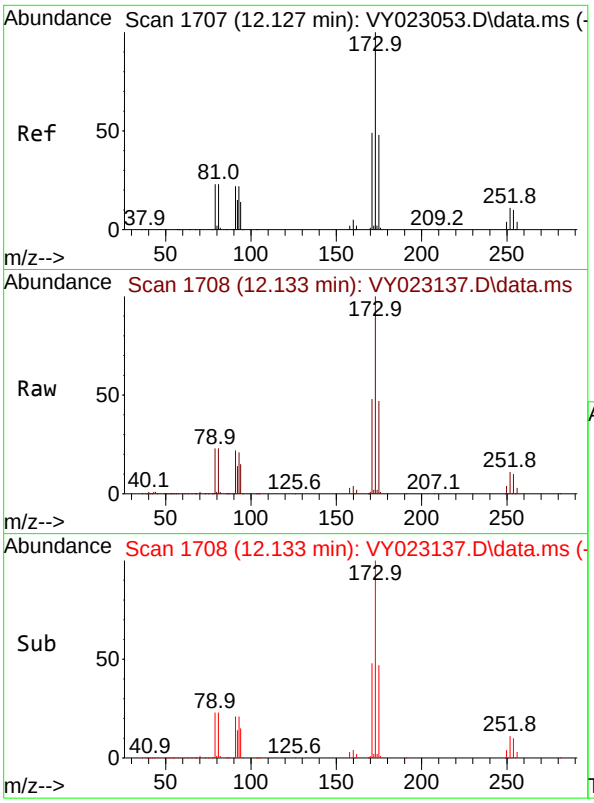




#70
Styrene
Concen: 55.007 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:104 Resp: 930498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 46.3 | 38.5 | 57.7 |
| 103 | 54.0 | 43.7 | 65.5 |



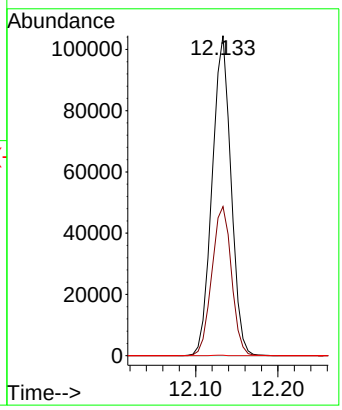


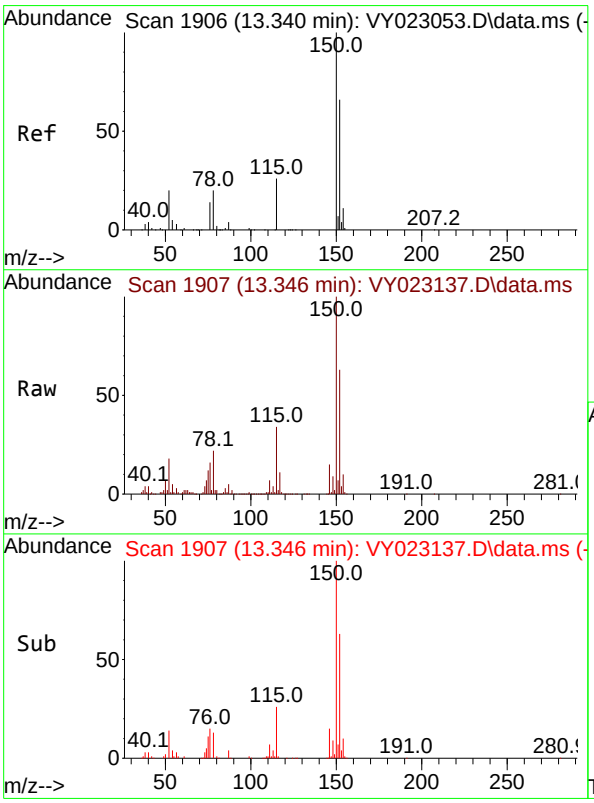

#71
Bromoform
Concen: 51.022 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:173 Resp: 166298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.5 | 23.9 | 71.7 |
| 254 | 0.1 | 0.1 | 0.1 |

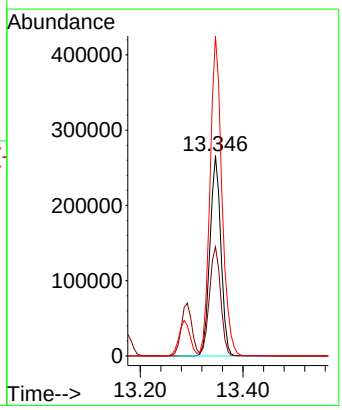


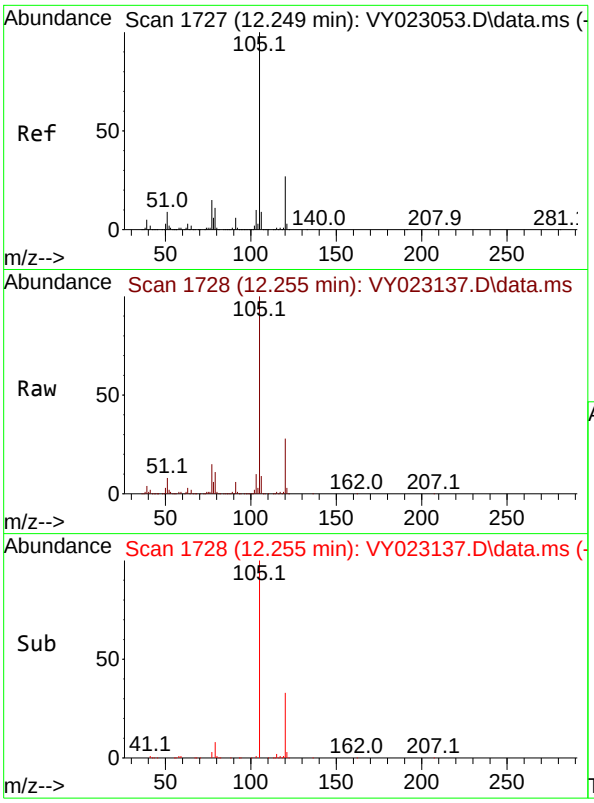




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:152 Resp: 392533

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 55.8 | 28.2 | 84.6 |
| 150 | 173.7 | 0.0 | 348.0 |



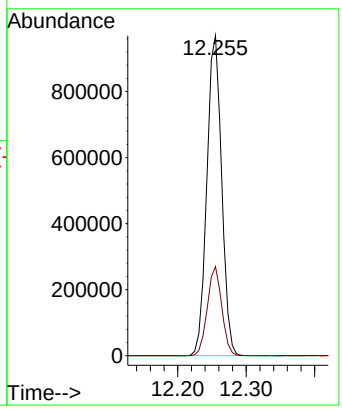


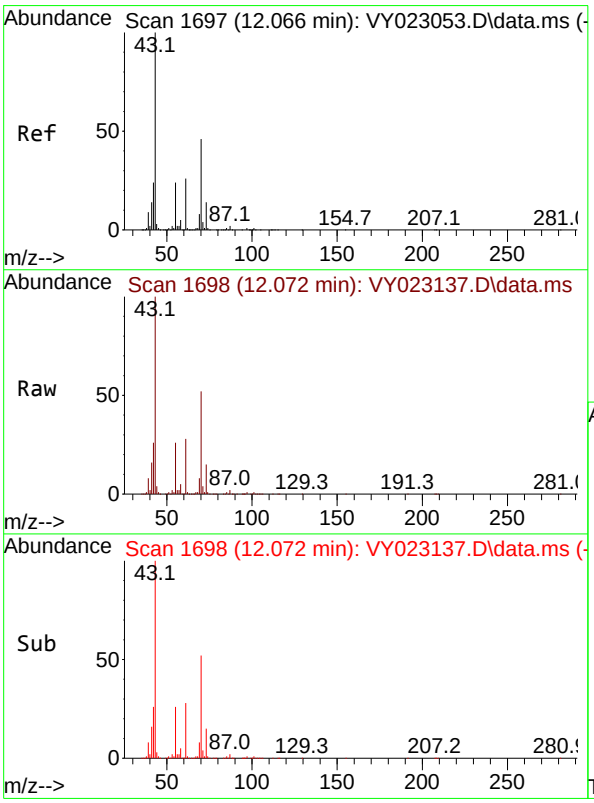

#73
Isopropylbenzene
Concen: 52.528 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:105 Resp: 1455261

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.2 | 13.4 | 40.2 |

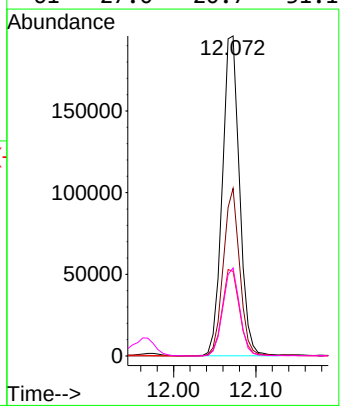


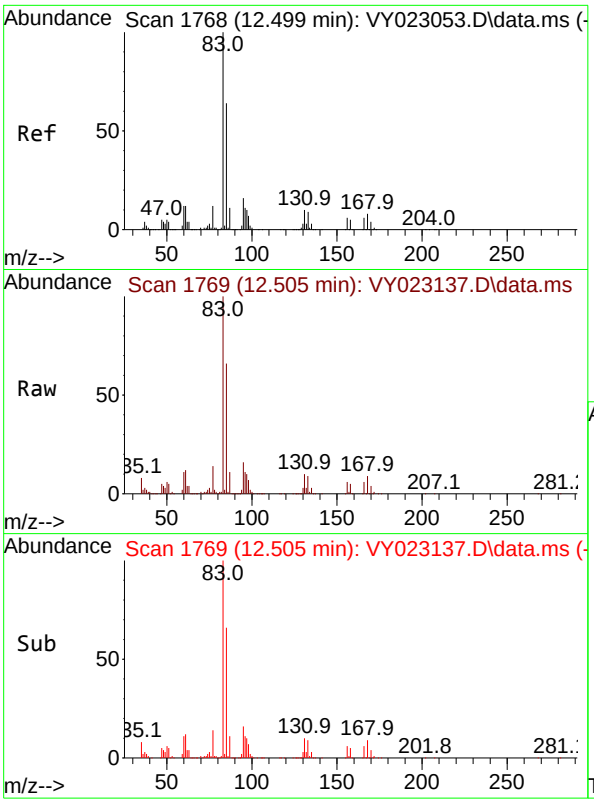




#74
N-amyl acetate
Concen: 48.584 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 43 Resp: 285441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 49.8 | 37.5 | 56.3 |
| 55 | 27.3 | 20.7 | 31.1 |
| 61 | 27.0 | 20.7 | 31.1 |



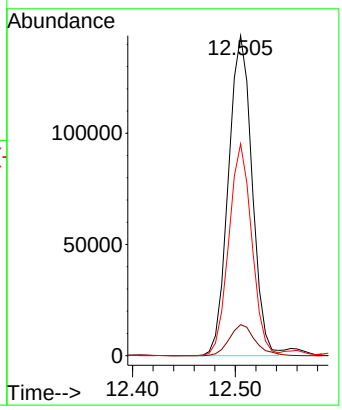


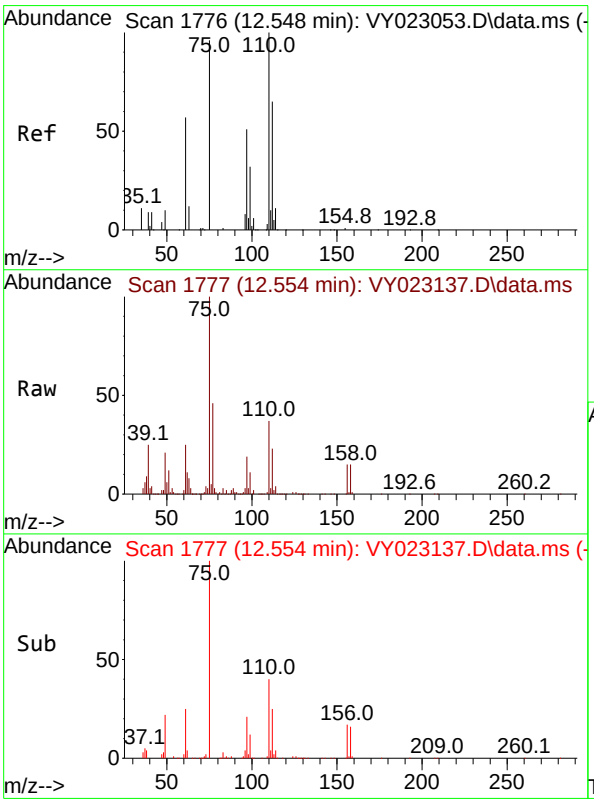

#75
1,1,2,2-Tetrachloroethane
Concen: 48.639 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 83 Resp: 230085

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.6 | 5.1 | 15.3 |
| 85 | 64.3 | 31.8 | 95.3 |

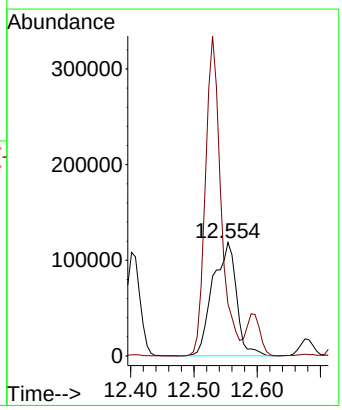


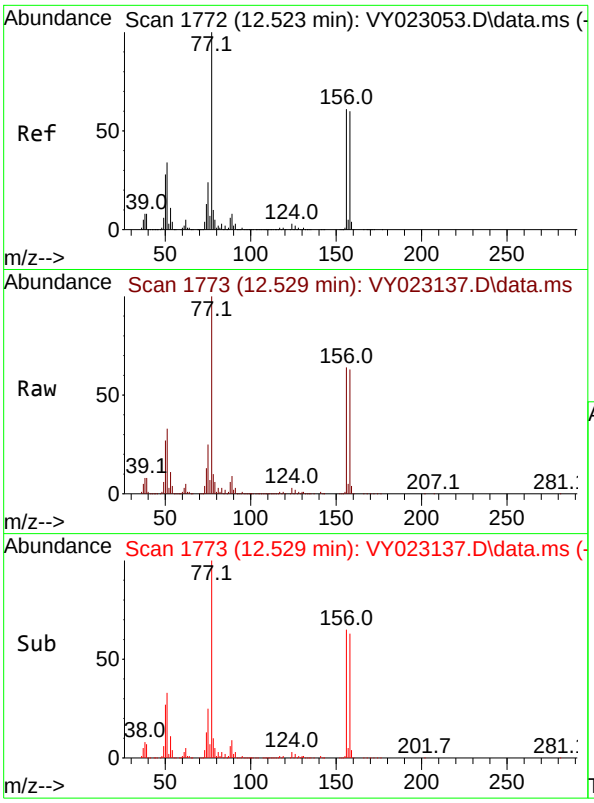




#76
1,2,3-Trichloropropane
Concen: 81.222 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 75 Resp: 307699

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |



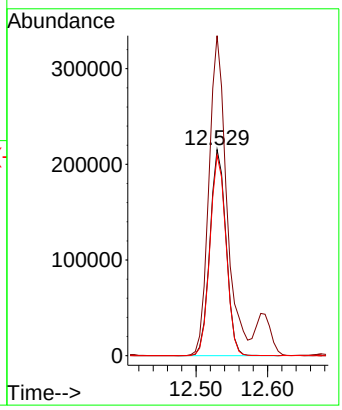


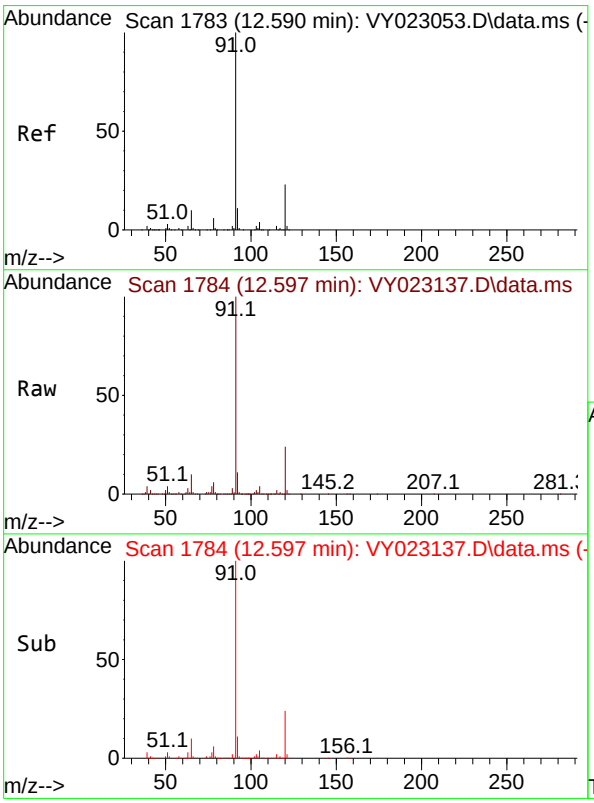

#77
Bromobenzene
Concen: 50.968 ug/l
RT: 12.529 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:156 Resp: 336874

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 170.5 | 88.1 | 264.4 |
| 158 | 97.2 | 48.0 | 144.0 |

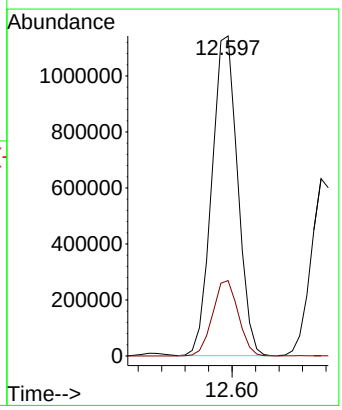


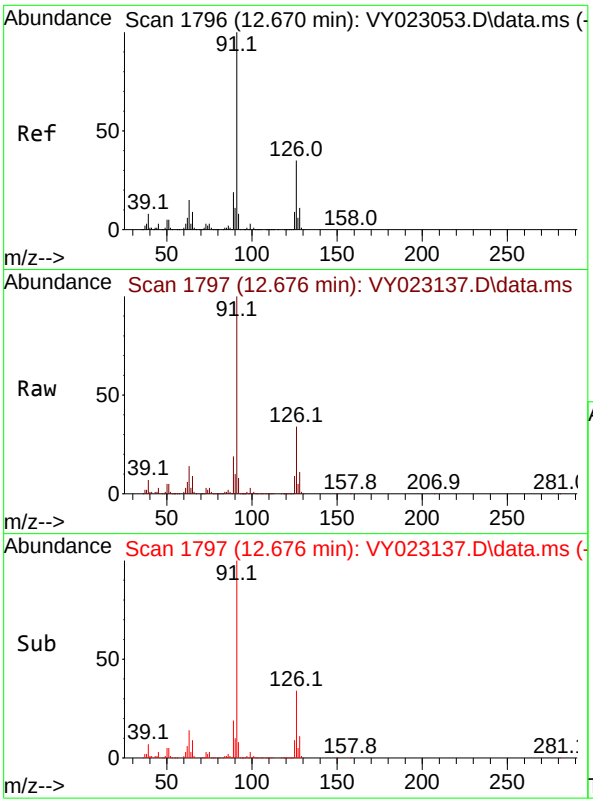




#78
n-propylbenzene
Concen: 52.806 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 91 Resp: 1741756

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 23.5 | 11.5 | 34.5 |



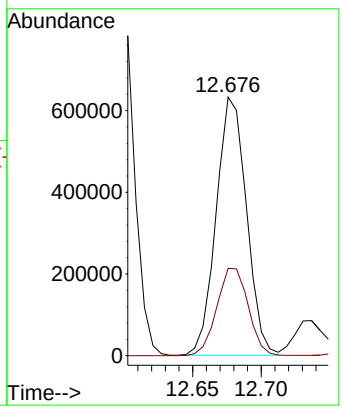


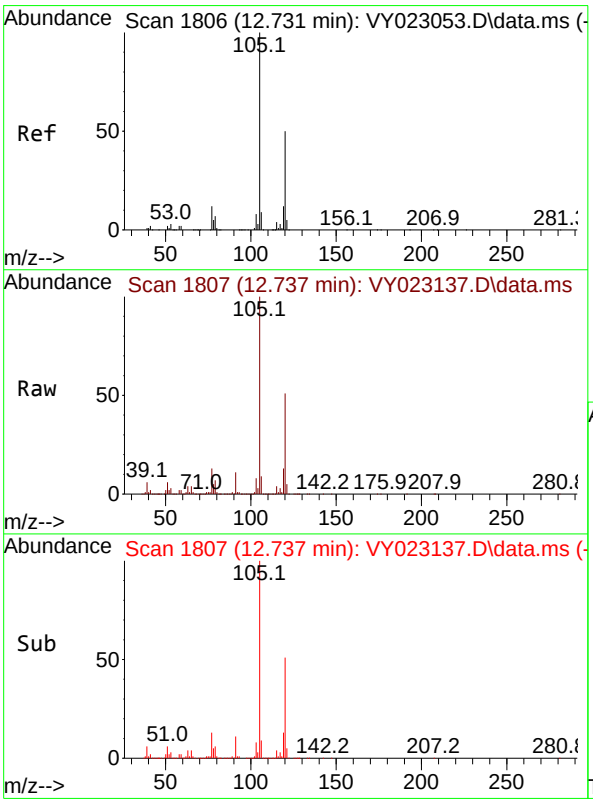

#79
2-Chlorotoluene
Concen: 51.594 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 91 Resp: 975057

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.0 | 17.4 | 52.3 |

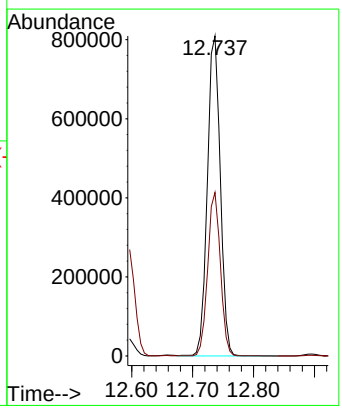


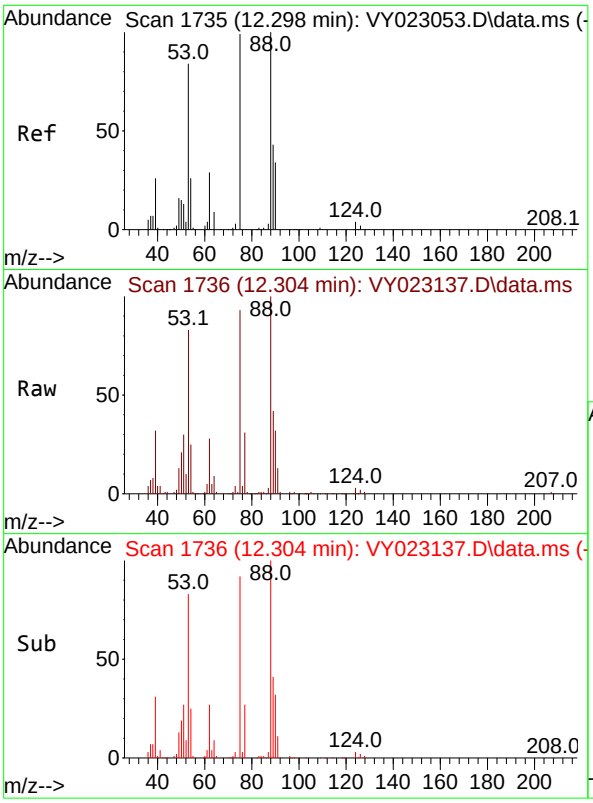




#80
1,3,5-Trimethylbenzene
Concen: 53.229 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:105 Resp: 1191826

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 50.1 | 24.8 | 74.4 |



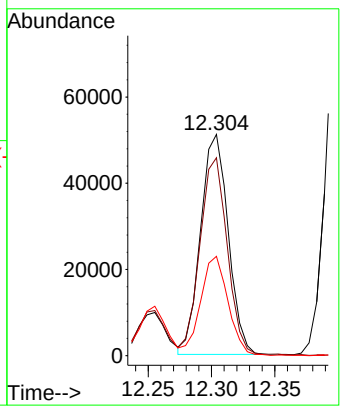


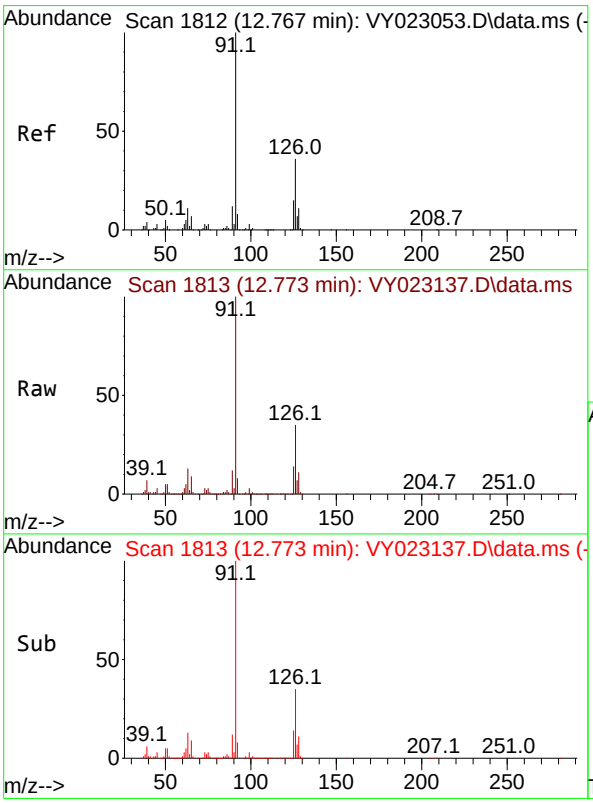

#81
trans-1,4-Dichloro-2-butene
Concen: 49.570 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 75 Resp: 77577

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 89.8 | 70.8 | 106.2 |
| 89 | 45.4 | 38.1 | 57.1 |

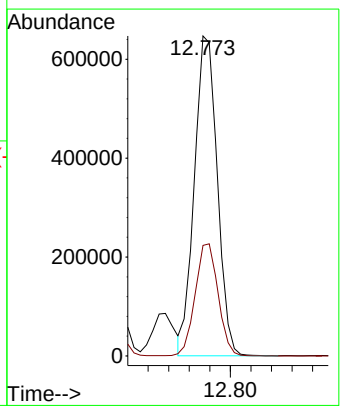


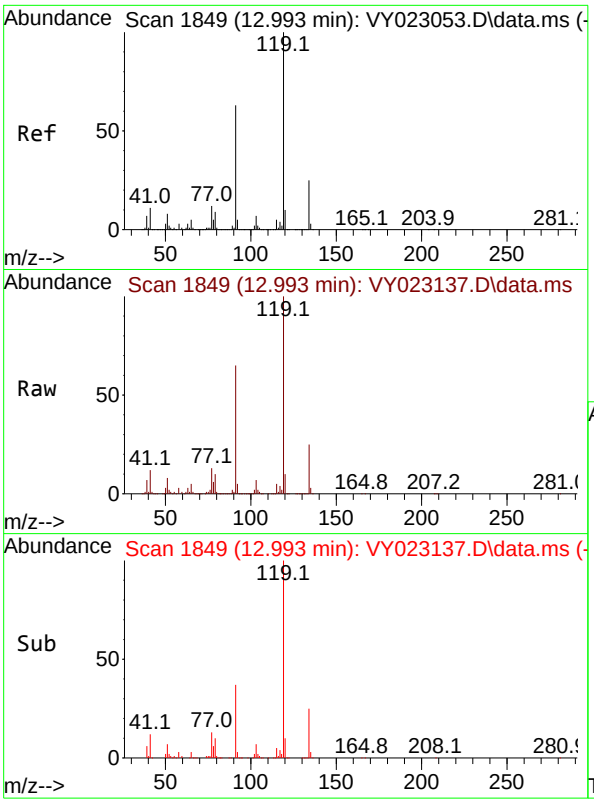




#82
4-Chlorotoluene
Concen: 51.036 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 91 Resp: 1000547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.2 | 17.3 | 52.0 |



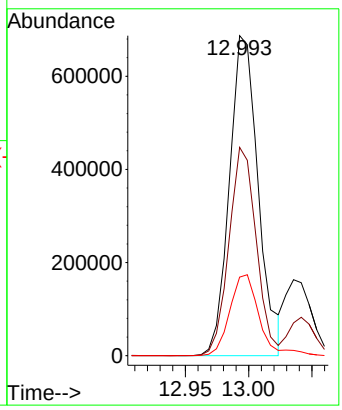


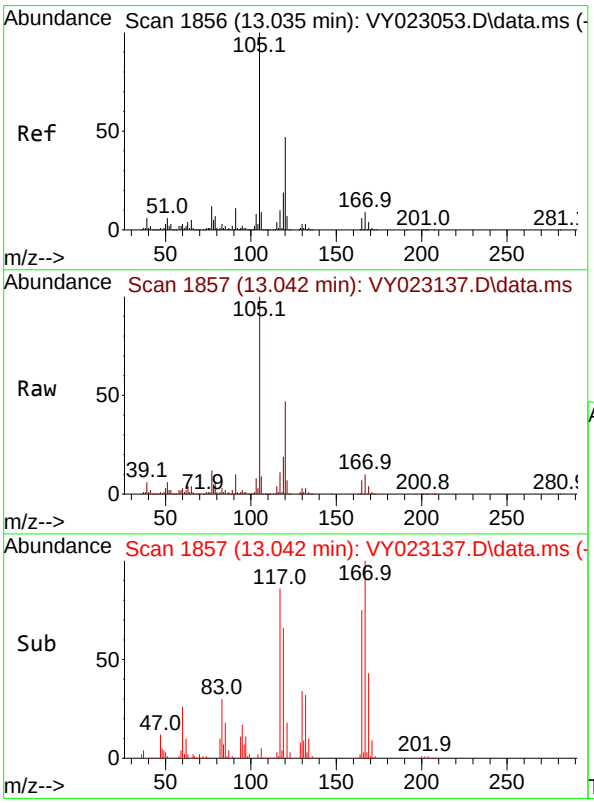

#83
tert-Butylbenzene
Concen: 53.956 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:119 Resp: 1091125

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 61.6 | 31.6 | 94.8 |
| 134 | 25.9 | 12.9 | 38.7 |

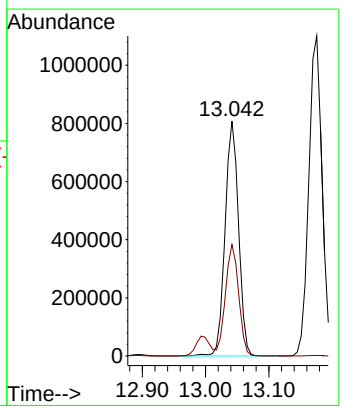


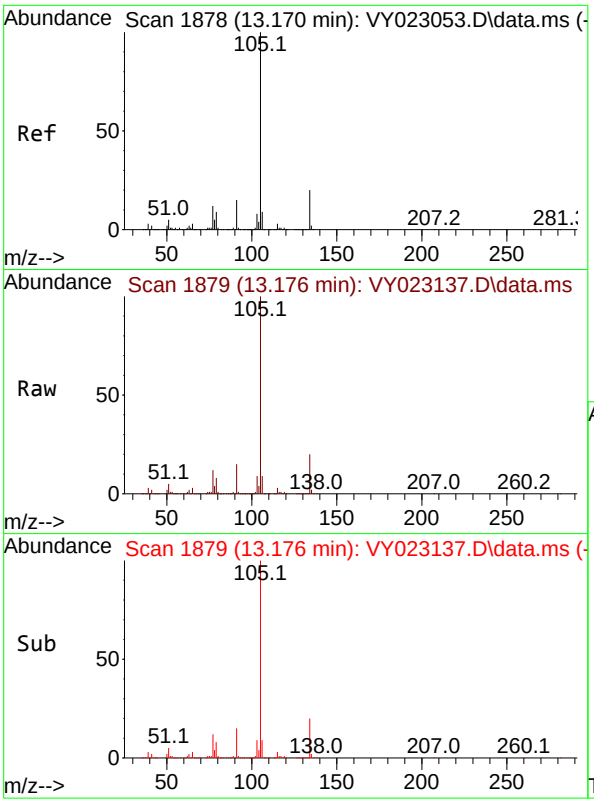




#84
1,2,4-Trimethylbenzene
Concen: 53.459 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:105 Resp: 1191535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.2 | 23.0 | 69.0 |



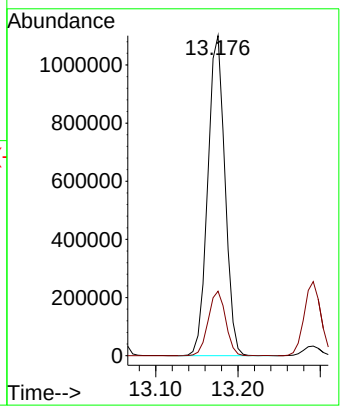


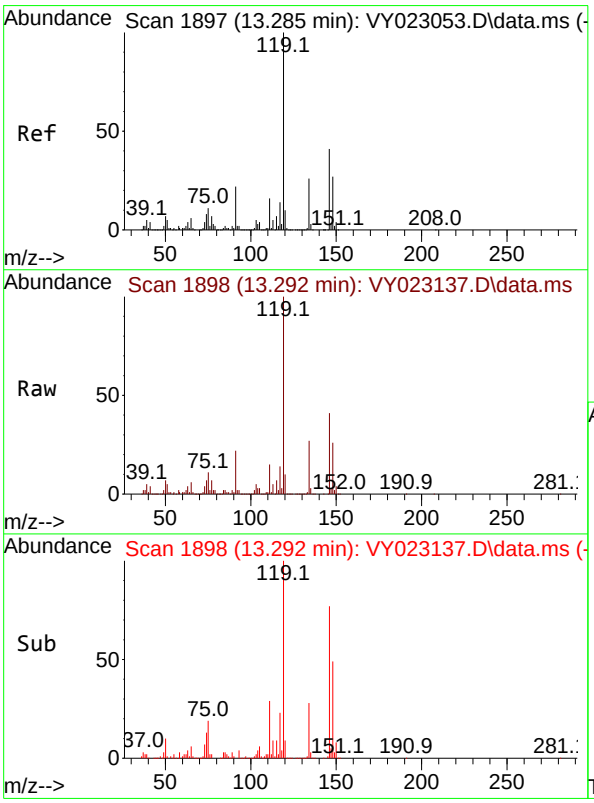

#85
sec-Butylbenzene
Concen: 53.673 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:105 Resp: 1594423

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.4 | 10.2 | 30.4 |

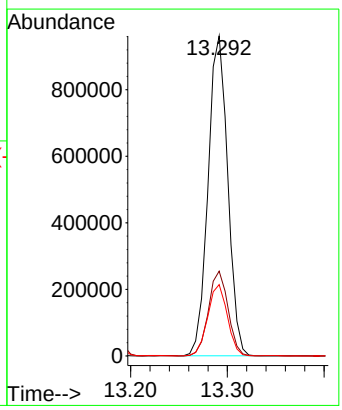


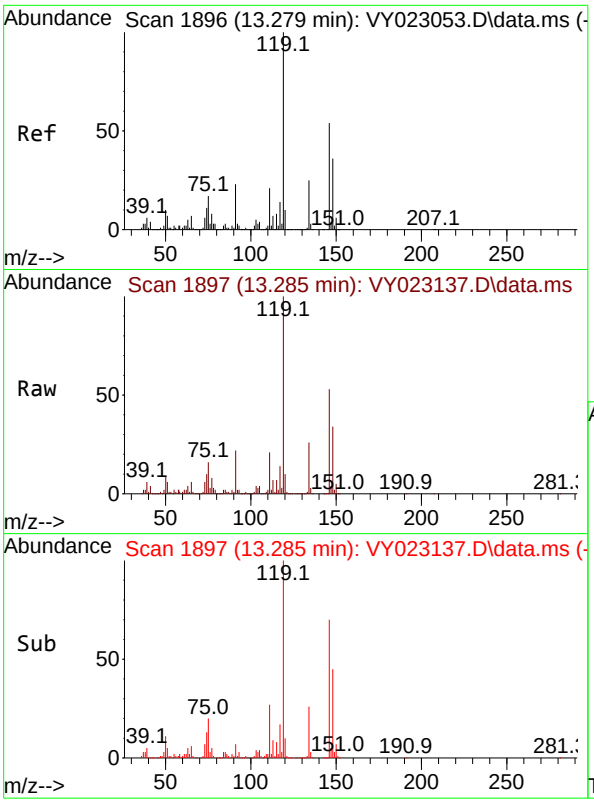




#86
p-Isopropyltoluene
Concen: 55.063 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:119 Resp: 1357746

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.4 | 13.2 | 39.6 |
| 91 | 22.2 | 11.3 | 33.8 |



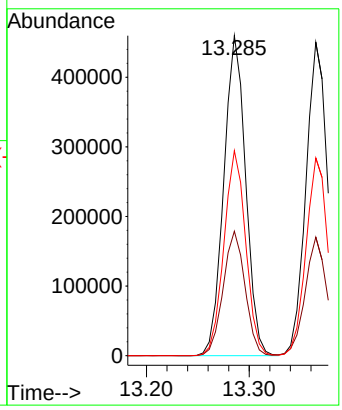


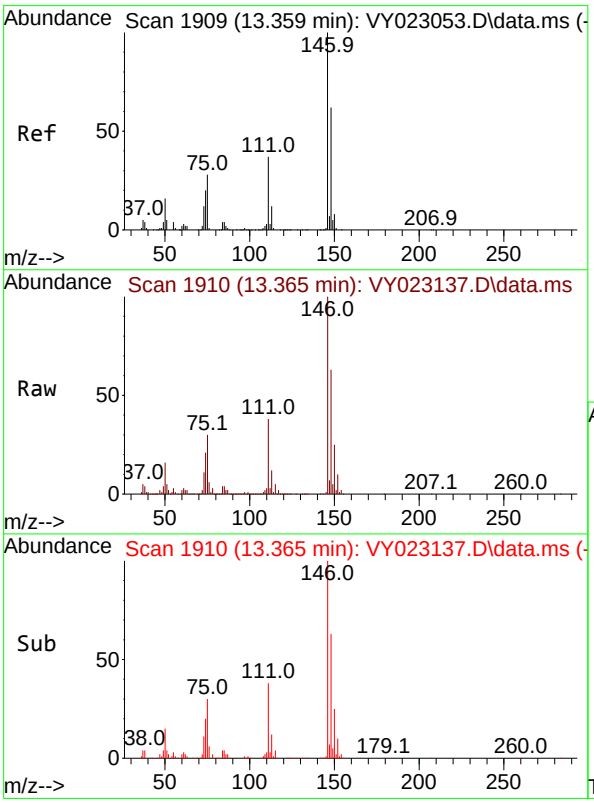

#87
1,3-Dichlorobenzene
Concen: 52.231 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:146 Resp: 680781

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.9 | 19.6 | 58.7 |
| 148 | 63.7 | 32.5 | 97.5 |

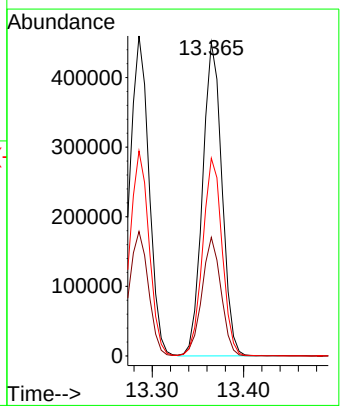


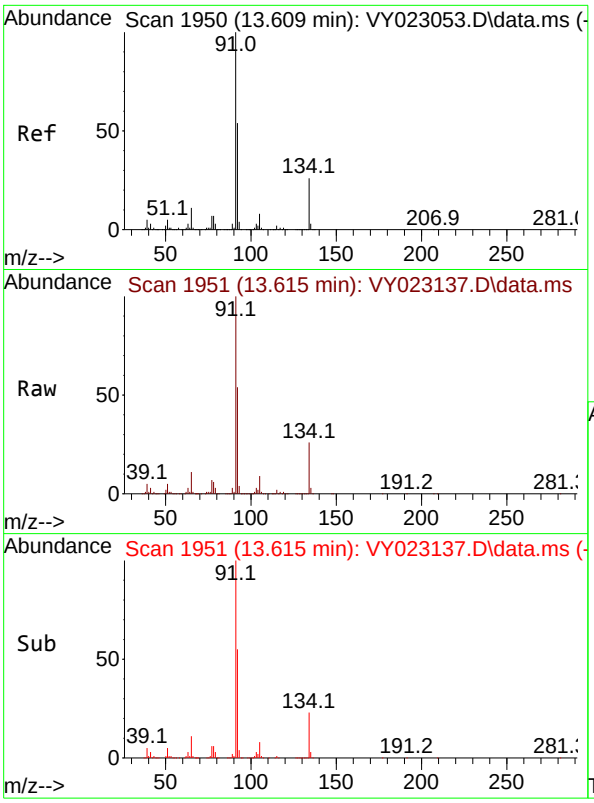




#88
1,4-Dichlorobenzene
Concen: 51.281 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:146 Resp: 663039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 37.4 | 19.1 | 57.1 |
| 148 | 63.4 | 31.6 | 94.7 |



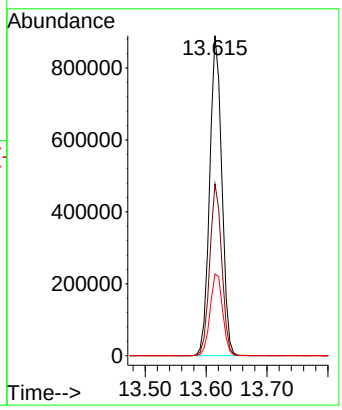


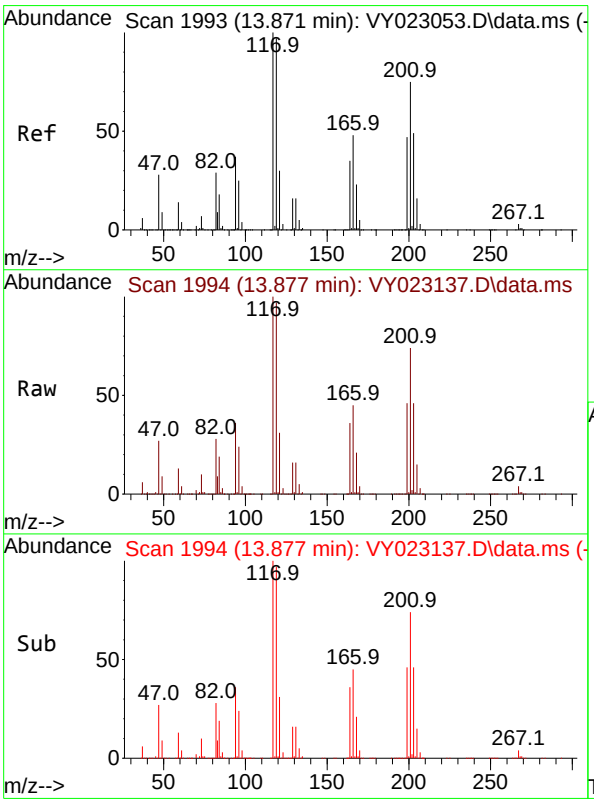

#89
n-Butylbenzene
Concen: 54.384 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 91 Resp: 1231645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.0 | 26.9 | 80.7 |
| 134 | 26.4 | 13.2 | 39.5 |

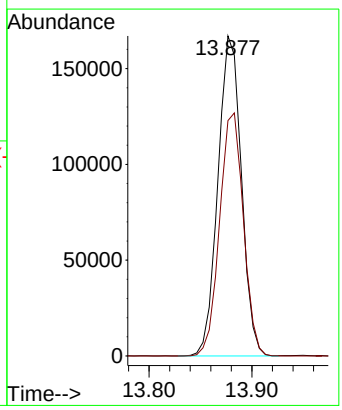


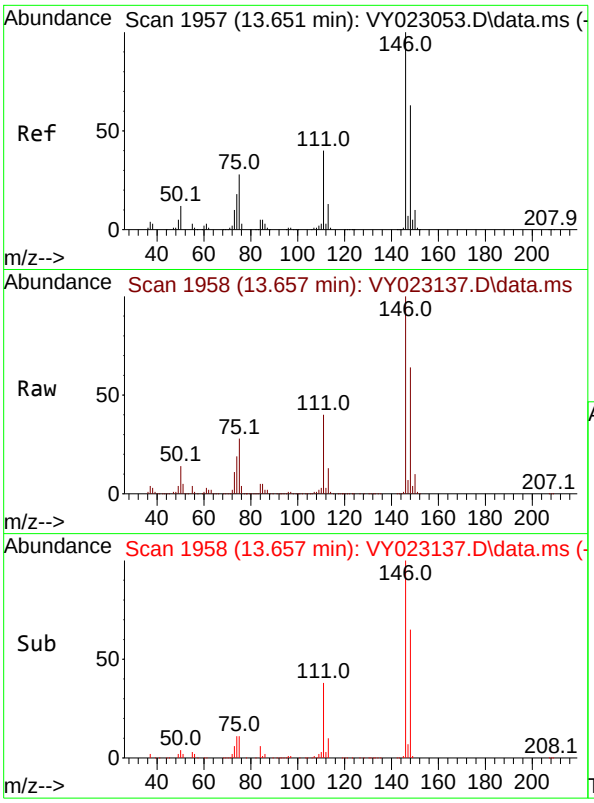




#90
Hexachloroethane
Concen: 52.354 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:117 Resp: 264268

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 77.1 | 38.4 | 115.1 |



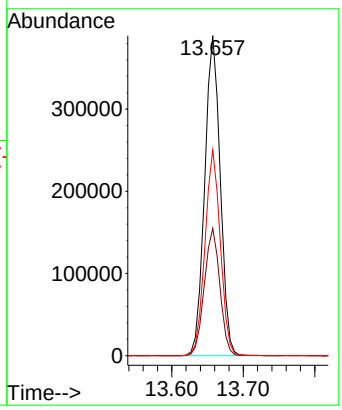


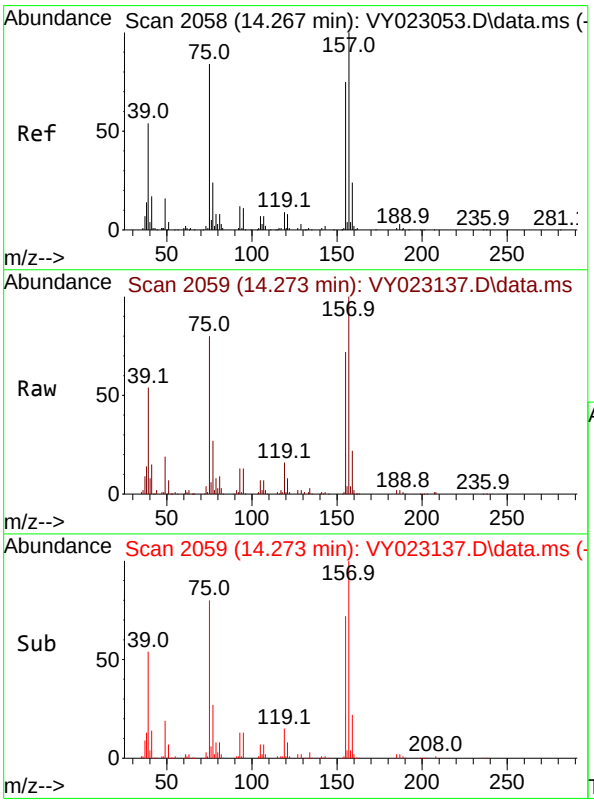

#91
1,2-Dichlorobenzene
Concen: 51.489 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:146 Resp: 588570

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.7 | 20.3 | 60.8 |
| 148 | 63.3 | 32.2 | 96.6 |

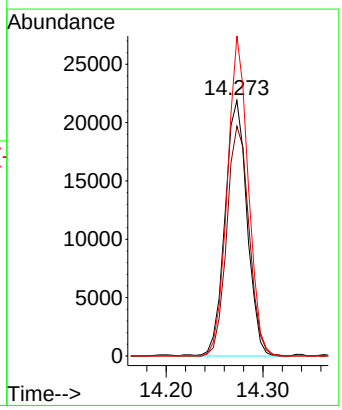


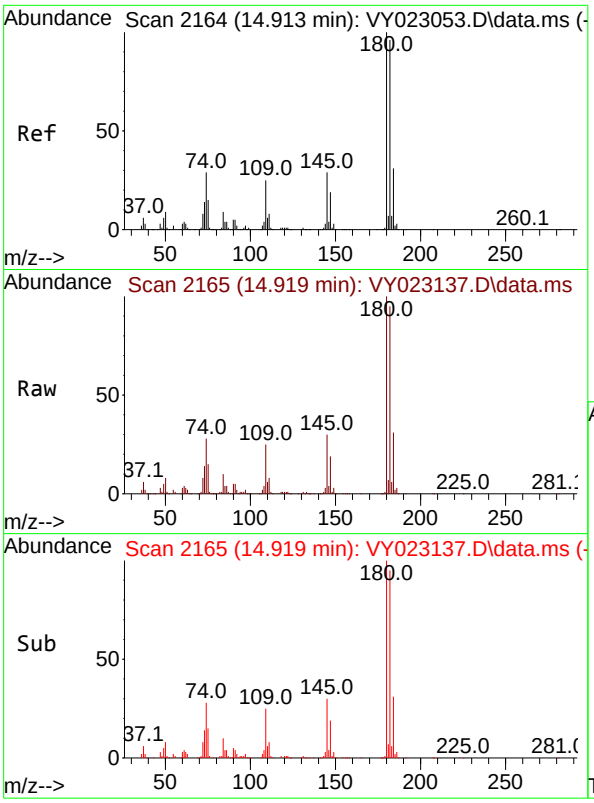




#92
1,2-Dibromo-3-Chloropropane
Concen: 47.081 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion: 75 Resp: 34676

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 90.7 | 43.9 | 131.6 |
| 157 | 118.4 | 57.2 | 171.6 |



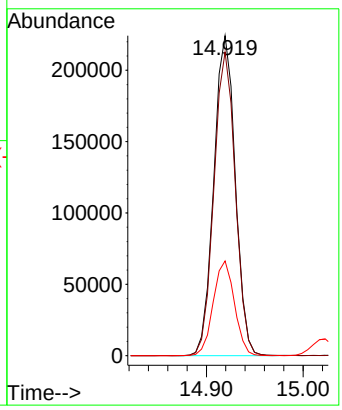


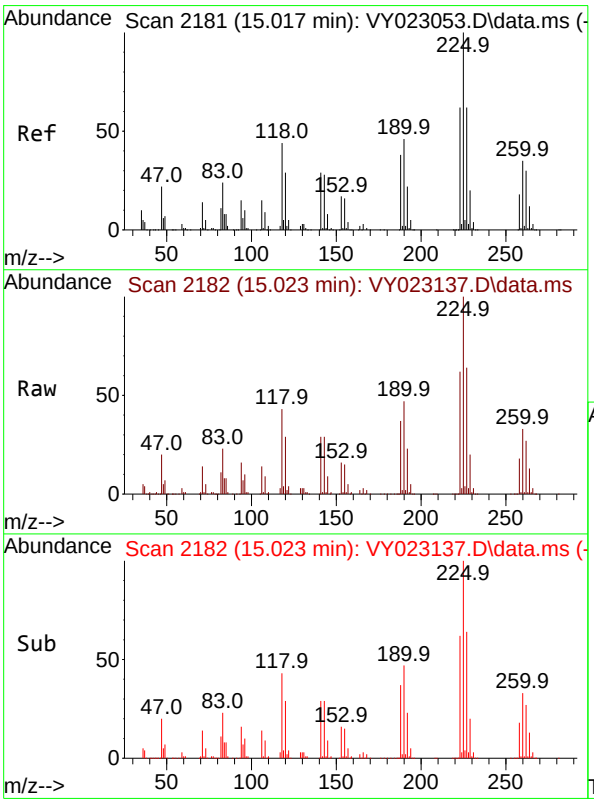

#93
1,2,4-Trichlorobenzene
Concen: 51.158 ug/l
RT: 14.919 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:180 Resp: 345818

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.4 | 46.8 | 140.4 |
| 145 | 29.3 | 14.4 | 43.4 |

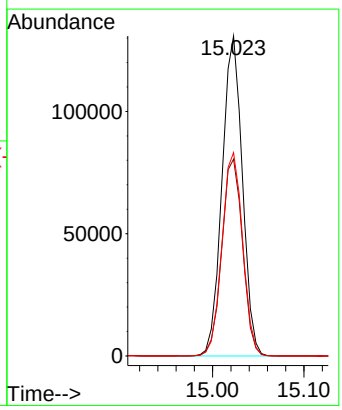


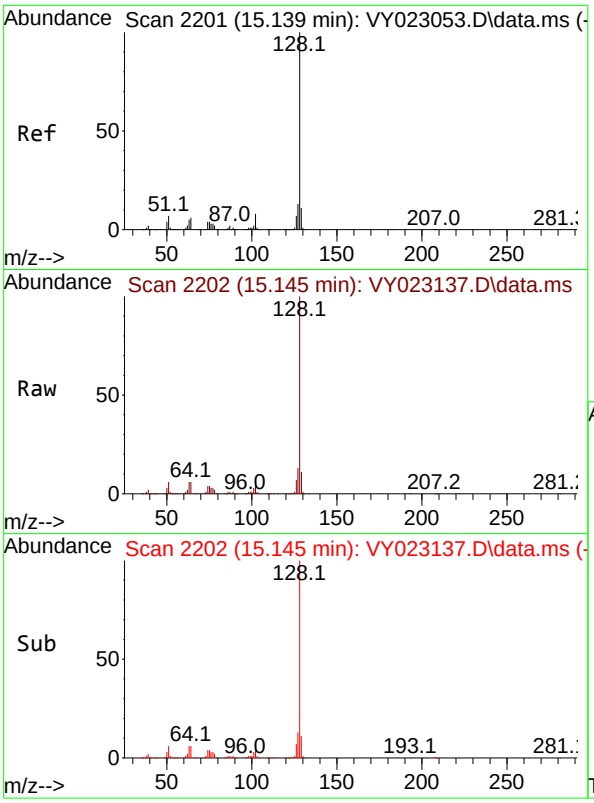




#94
Hexachlorobutadiene
Concen: 50.885 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:225 Resp: 202124

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.8 | 31.3 | 93.8 |
| 227 | 64.8 | 31.5 | 94.5 |



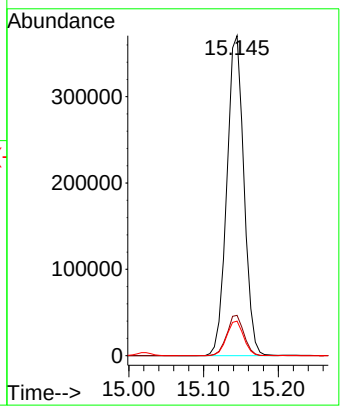


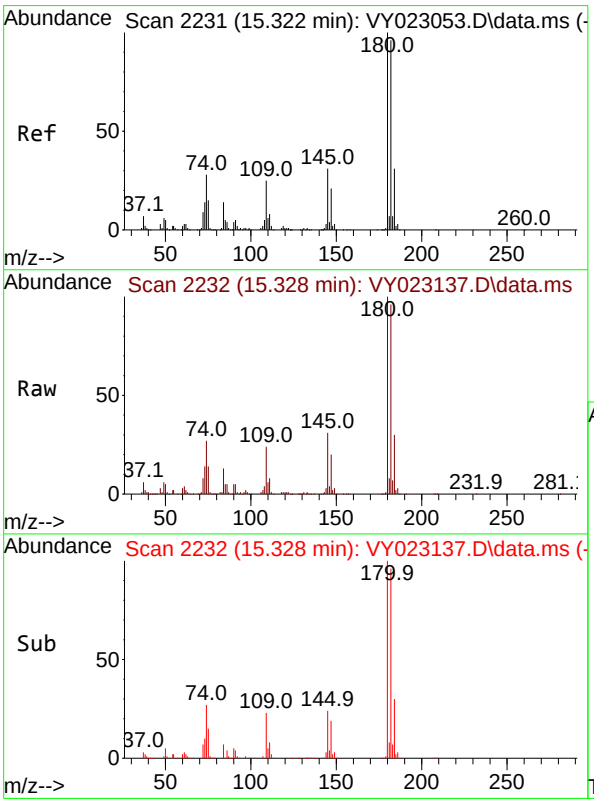

#95
Naphthalene
Concen: 51.208 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:128 Resp: 590257

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.6 | 10.4 | 15.6 |
| 129 | 10.9 | 9.0 | 13.4 |

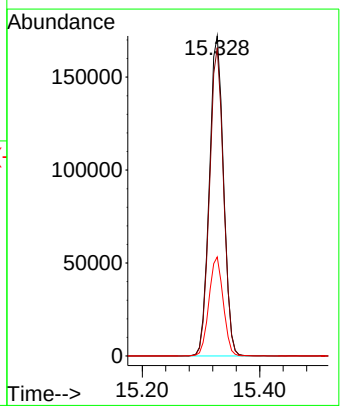



#96
1,2,3-Trichlorobenzene
Concen: 49.517 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.006 min
Lab File: VY023137.D
Acq: 19 Aug 2025 09:11

Tgt Ion:180 Resp: 288433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.5 | 47.9 | 143.7 |
| 145 | 31.1 | 15.9 | 47.7 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023139.D
Acq On : 19 Aug 2025 10:19
Operator : SY/MD
Sample : VY0819SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Quant Time: Aug 20 01:24:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 517532 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.615 | 114 | 816918 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.413 | 117 | 707204 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 352720 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.060 | 65 | 233623 | 47.365 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 94.720% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 237406 | 48.567 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 97.140% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 947313 | 49.608 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 99.220% | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 298119 | 48.544 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 97.080% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.866 | 85 | 87281 | 20.661 | ug/l | 100 |
| 3) Chloromethane | 2.074 | 50 | 138015 | 20.171 | ug/l | 100 |
| 4) Vinyl Chloride | 2.208 | 62 | 173827 | 20.552 | ug/l | 99 |
| 5) Bromomethane | 2.592 | 94 | 146241 | 23.152 | ug/l | 98 |
| 6) Chloroethane | 2.738 | 64 | 116717 | 20.757 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.055 | 101 | 205259 | 19.958 | ug/l | 98 |
| 8) Diethyl Ether | 3.458 | 74 | 54043 | 19.862 | ug/l | 94 |
| 9) 1,1,2-Trichlorotrifluo... | 3.817 | 101 | 109139 | 21.510 | ug/l | 99 |
| 10) Methyl Iodide | 4.006 | 142 | 105447 | 19.260 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.860 | 59 | 29364 | 86.885 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 3.793 | 96 | 103754 | 20.804 | ug/l | 91 |
| 13) Acrolein | 3.653 | 56 | 35491 | 71.706 | ug/l | 96 |
| 14) Allyl chloride | 4.384 | 41 | 138299 | 18.846 | ug/l | 96 |
| 15) Acrylonitrile | 5.055 | 53 | 104521 | 94.488 | ug/l | 98 |
| 16) Acetone | 3.872 | 43 | 120414 | 112.685 | ug/l | 98 |
| 17) Carbon Disulfide | 4.104 | 76 | 323680 | 19.905 | ug/l | 99 |
| 18) Methyl Acetate | 4.384 | 43 | 55412 | 17.426 | ug/l | 97 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 254848 | 19.720 | ug/l | 97 |
| 20) Methylene Chloride | 4.616 | 84 | 114203 | 18.875 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 117658 | 20.993 | ug/l | 96 |
| 22) Diisopropyl ether | 6.018 | 45 | 314582 | 19.728 | ug/l | 95 |
| 23) Vinyl Acetate | 5.963 | 43 | 837107 | 94.938 | ug/l | 97 |
| 24) 1,1-Dichloroethane | 5.921 | 63 | 194782 | 19.979 | ug/l | 100 |
| 25) 2-Butanone | 6.890 | 43 | 146563 | 100.847 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 6.890 | 77 | 179625 | 21.352 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 133354 | 20.582 | ug/l | 97 |
| 28) Bromochloromethane | 7.244 | 49 | 75324 | 19.474 | ug/l | 96 |
| 29) Tetrahydrofuran | 7.262 | 42 | 81427 | 90.389 | ug/l | 98 |
| 30) Chloroform | 7.426 | 83 | 208029 | 20.690 | ug/l | 100 |
| 31) Cyclohexane | 7.701 | 56 | 180441 | 19.640 | ug/l | 94 |
| 32) 1,1,1-Trichloroethane | 7.615 | 97 | 185862 | 20.833 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 149696 | 20.606 | ug/l | 99 |
| 37) Ethyl Acetate | 6.981 | 43 | 56943 | 18.660 | ug/l | 98 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 169089 | 21.430 | ug/l | 99 |
| 39) Methylcyclohexane | 9.109 | 83 | 199011 | 20.803 | ug/l | 99 |
| 40) Benzene | 8.079 | 78 | 471421 | 21.055 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023139.D
Acq On : 19 Aug 2025 10:19
Operator : SY/MD
Sample : VY0819SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Quant Time: Aug 20 01:24:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.219 | 41 | 27802 | 15.786 ug/l # | 85 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 117552 | 20.187 ug/l | 100 |
| 43) Isopropyl Acetate | 8.195 | 43 | 113681 | 18.431 ug/l | 99 |
| 44) Trichloroethene | 8.865 | 130 | 122590 | 21.187 ug/l | 98 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 105641 | 20.506 ug/l | 99 |
| 46) Dibromomethane | 9.231 | 93 | 62014 | 20.972 ug/l | 97 |
| 47) Bromodichloromethane | 9.420 | 83 | 157692 | 20.725 ug/l | 98 |
| 48) Methyl methacrylate | 9.219 | 41 | 54599 | 18.499 ug/l | 93 |
| 49) 1,4-Dioxane | 9.231 | 88 | 13295 | 383.459 ug/l | 96 |
| 51) 4-Methyl-2-Pentanone | 9.999 | 43 | 298177 | 93.721 ug/l | 99 |
| 52) Toluene | 10.170 | 92 | 299030 | 21.028 ug/l | 99 |
| 53) t-1,3-Dichloropropene | 10.395 | 75 | 138793 | 20.144 ug/l | 99 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 166637 | 20.453 ug/l | 98 |
| 55) 1,1,2-Trichloroethane | 10.572 | 97 | 80520 | 20.350 ug/l | 95 |
| 56) Ethyl methacrylate | 10.438 | 69 | 94888 | 18.741 ug/l | 99 |
| 57) 1,3-Dichloropropane | 10.718 | 76 | 138195 | 20.594 ug/l | 98 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 226098 | 94.672 ug/l | 98 |
| 59) 2-Hexanone | 10.761 | 43 | 214547 | 99.034 ug/l | 100 |
| 60) Dibromochloromethane | 10.907 | 129 | 107311 | 20.554 ug/l | 100 |
| 61) 1,2-Dibromoethane | 11.017 | 107 | 75418 | 20.280 ug/l | 100 |
| 64) Tetrachloroethene | 10.645 | 164 | 129655 | 20.532 ug/l | 99 |
| 65) Chlorobenzene | 11.438 | 112 | 325629 | 21.346 ug/l | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131 | 109752 | 21.199 ug/l | 98 |
| 67) Ethyl Benzene | 11.517 | 91 | 545176 | 20.767 ug/l | 98 |
| 68) m/p-Xylenes | 11.627 | 106 | 430120 | 41.951 ug/l | 100 |
| 69) o-Xylene | 11.956 | 106 | 201847 | 21.020 ug/l | 100 |
| 70) Styrene | 11.968 | 104 | 330216 | 21.028 ug/l | 99 |
| 71) Bromoform | 12.127 | 173 | 62105 | 20.525 ug/l # | 99 |
| 73) Isopropylbenzene | 12.255 | 105 | 527385 | 21.185 ug/l | 99 |
| 74) N-amyl acetate | 12.066 | 43 | 98366 | 18.632 ug/l | 97 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 87962 | 20.694 ug/l | 99 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 112742 | 33.119 ug/l # | 100 |
| 77) Bromobenzene | 12.529 | 156 | 122298 | 20.592 ug/l | 99 |
| 78) n-propylbenzene | 12.596 | 91 | 629976 | 21.255 ug/l | 99 |
| 79) 2-Chlorotoluene | 12.675 | 91 | 356441 | 20.990 ug/l | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.736 | 105 | 422945 | 21.022 ug/l | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 27897 | 19.838 ug/l | 98 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 366476 | 20.803 ug/l | 99 |
| 83) tert-Butylbenzene | 12.992 | 119 | 383813 | 21.122 ug/l | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.041 | 105 | 426567 | 21.298 ug/l | 99 |
| 85) sec-Butylbenzene | 13.175 | 105 | 572911 | 21.463 ug/l | 100 |
| 86) p-Isopropyltoluene | 13.291 | 119 | 473600 | 21.375 ug/l | 100 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 245224 | 20.938 ug/l | 98 |
| 88) 1,4-Dichlorobenzene | 13.364 | 146 | 241992 | 20.829 ug/l | 99 |
| 89) n-Butylbenzene | 13.614 | 91 | 427124 | 20.989 ug/l | 99 |
| 90) Hexachloroethane | 13.876 | 117 | 97949 | 21.595 ug/l | 98 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 210816 | 20.524 ug/l | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 12905 | 19.499 ug/l | 98 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 122439 | 20.157 ug/l | 98 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 75487 | 21.149 ug/l | 99 |
| 95) Naphthalene | 15.145 | 128 | 198080 | 19.124 ug/l | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.327 | 180 | 105286 | 20.115 ug/l | 99 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023139.D
Acq On : 19 Aug 2025 10:19
Operator : SY/MD
Sample : VY0819SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Quant Time: Aug 20 01:24:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

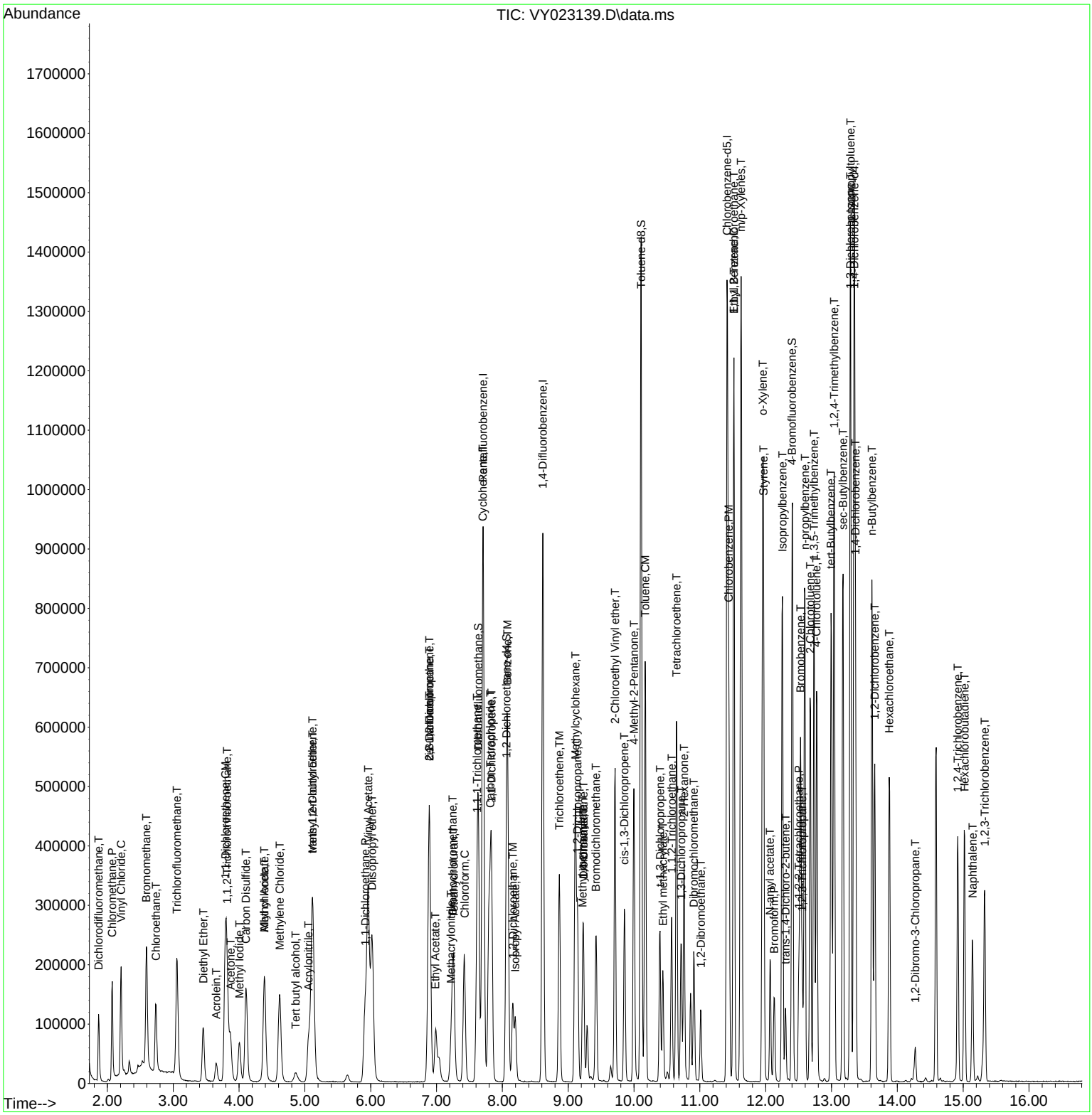
(#) = qualifier out of range (m) = manual integration (+) = signals summed

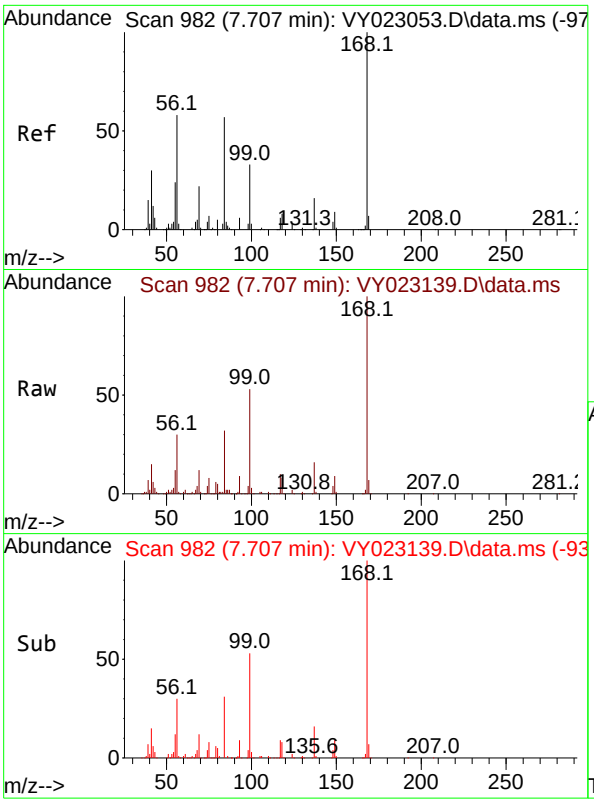
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023139.D
Acq On : 19 Aug 2025 10:19
Operator : SY/MD
Sample : VY0819SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Quant Time: Aug 20 01:24:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



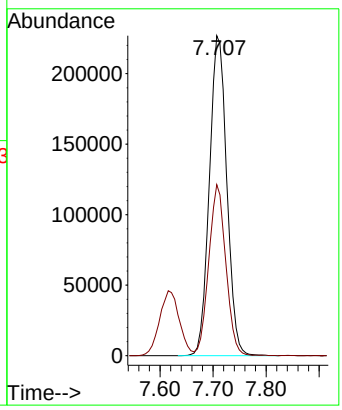


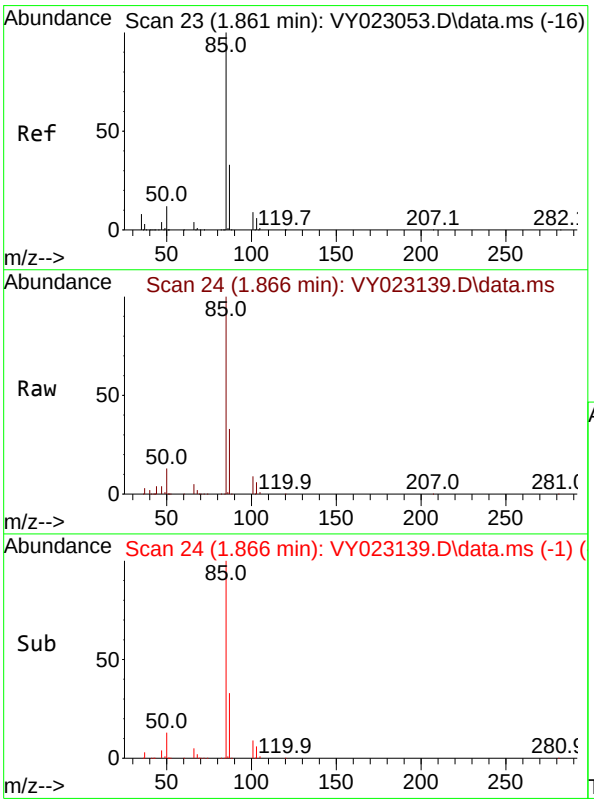

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion:168 Resp: 517532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 53.4 | 42.8 | 64.2 |

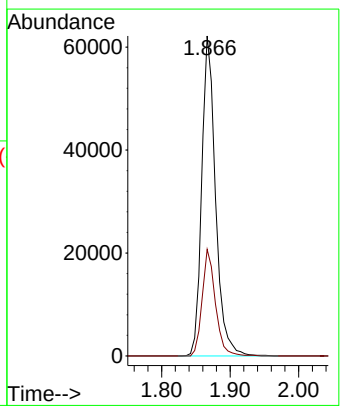


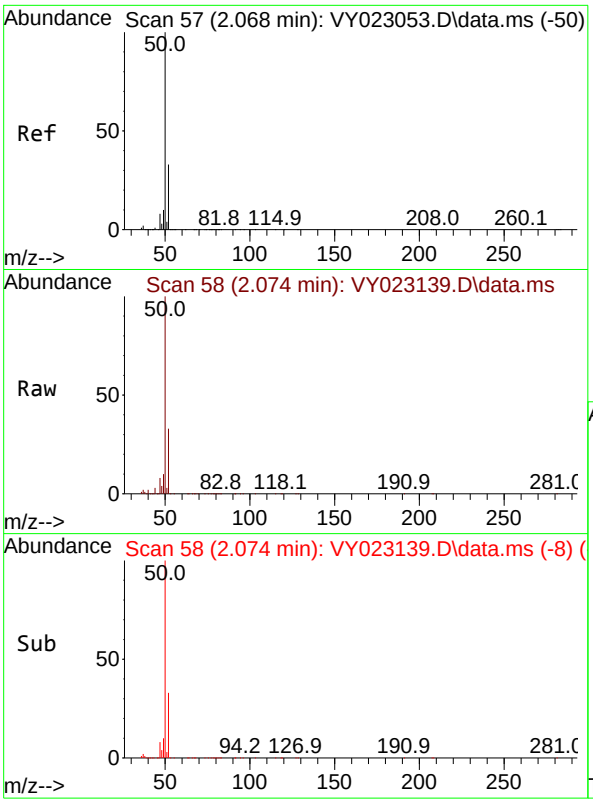




#2
Dichlorodifluoromethane
Concen: 20.661 ug/l
RT: 1.866 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 85 Resp: 87281

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.3 | 16.6 | 49.8 |



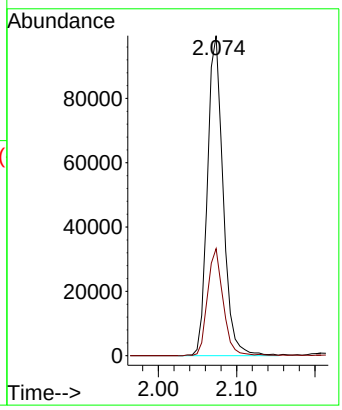


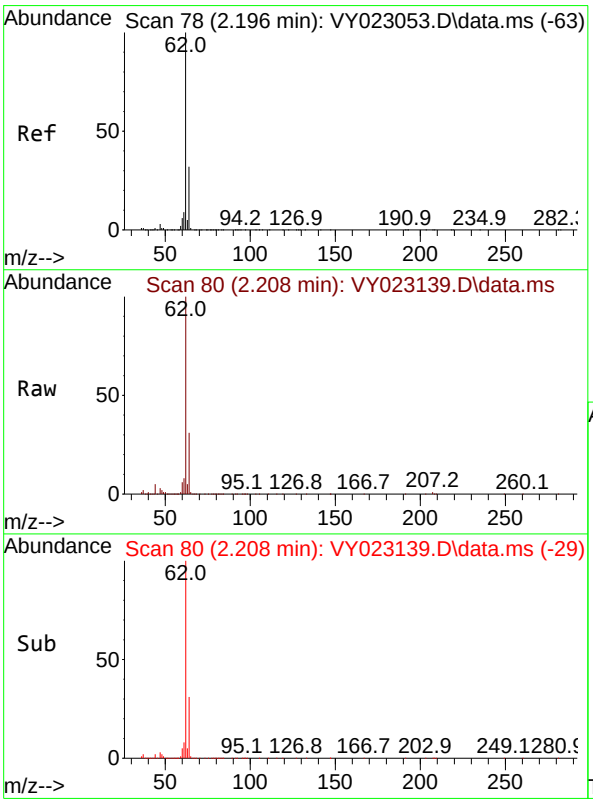

#3
Chloromethane
Concen: 20.171 ug/l
RT: 2.074 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion: 50 Resp: 138015

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.5 | 26.7 | 40.1 |

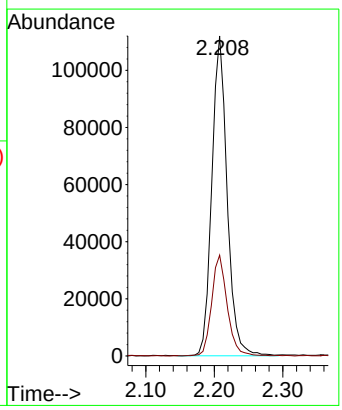


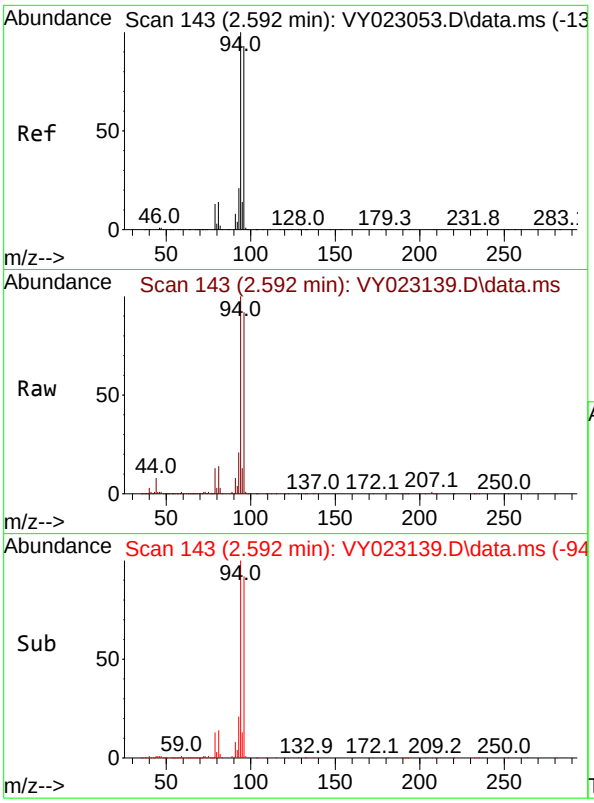




#4
Vinyl Chloride
Concen: 20.552 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 62 Resp: 173827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.4 | 25.4 | 38.0 |



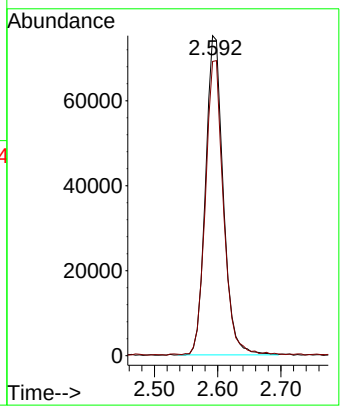


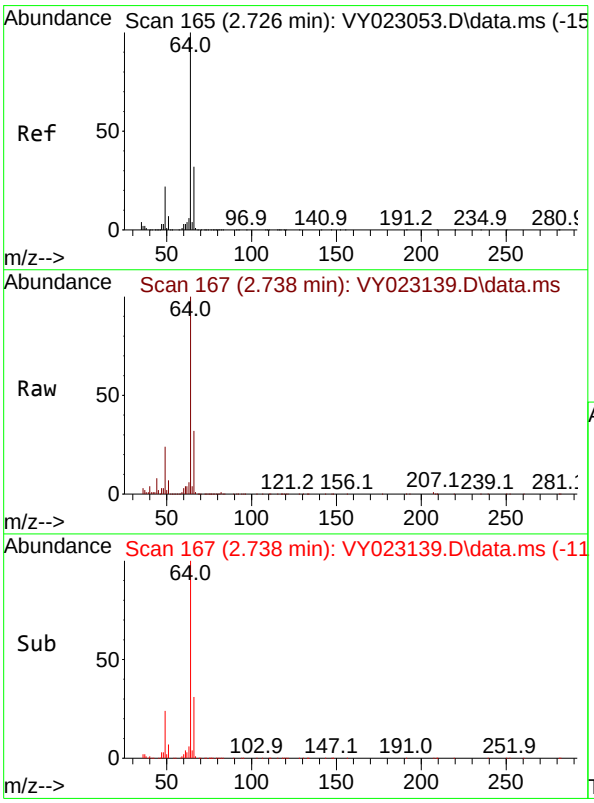

#5
Bromomethane
Concen: 23.152 ug/l
RT: 2.592 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion: 94 Resp: 146241

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 91.7 | 74.6 | 112.0 |

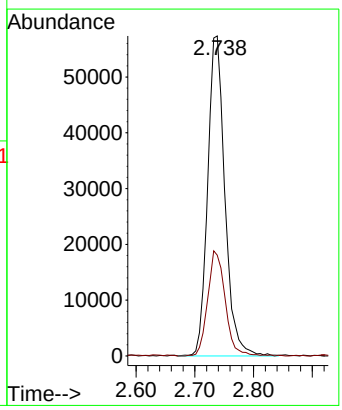


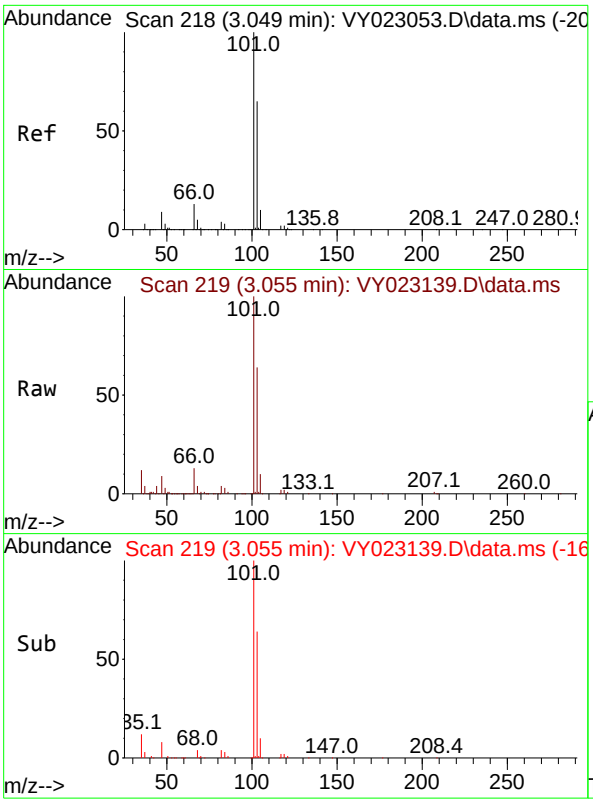




#6
Chloroethane
Concen: 20.757 ug/l
RT: 2.738 min Scan# 167
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 64 Resp: 116717

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.5 | 25.8 | 38.6 |



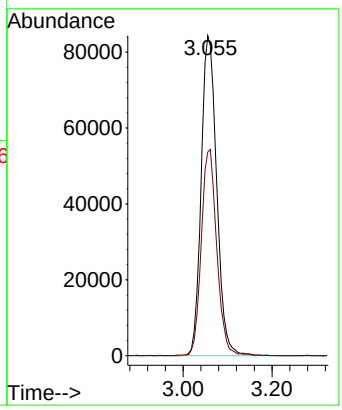


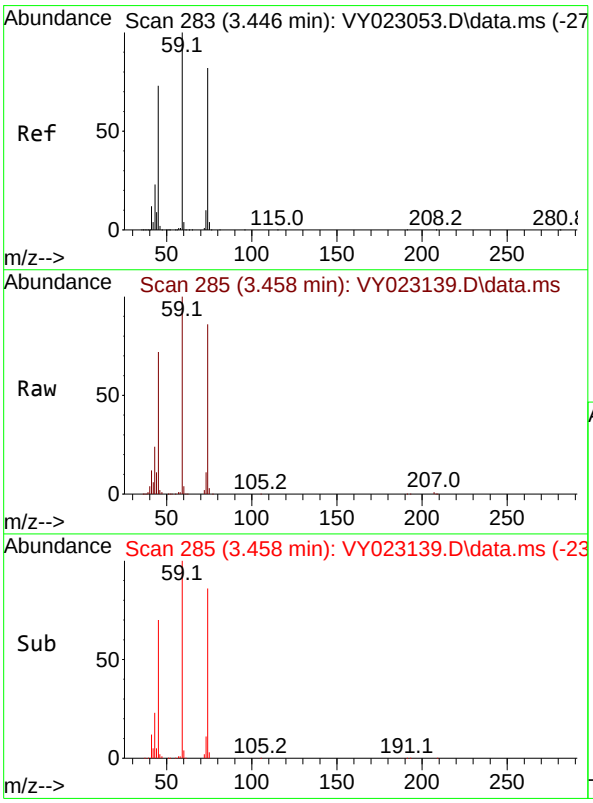

#7
Trichlorofluoromethane
Concen: 19.958 ug/l
RT: 3.055 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion:101 Resp: 205259

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.6 | 51.9 | 77.9 |

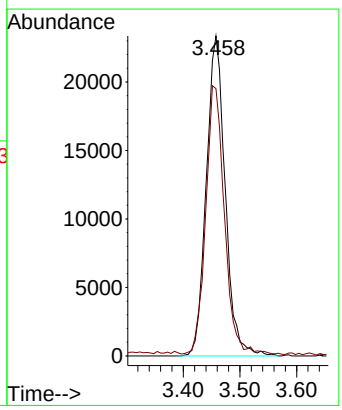


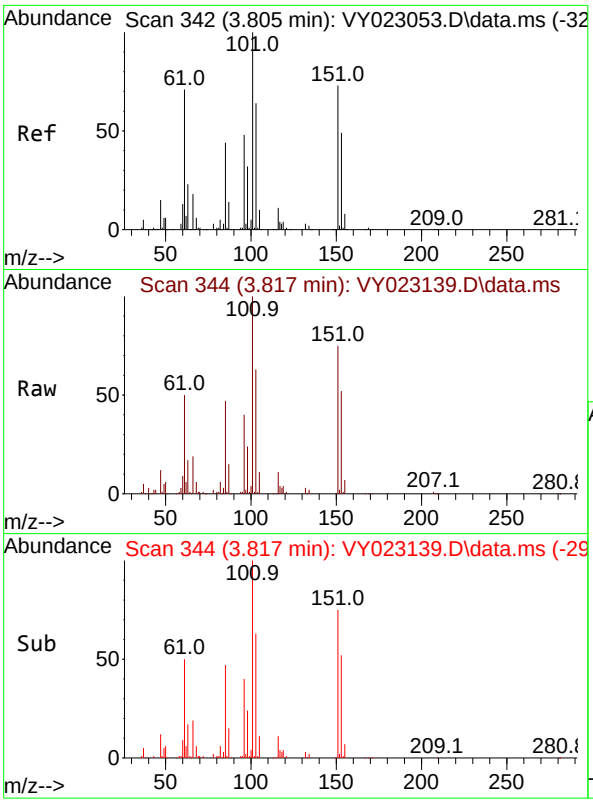




#8
Diethyl Ether
Concen: 19.862 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 74 Resp: 54043

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 83.3 | 44.4 | 133.2 |



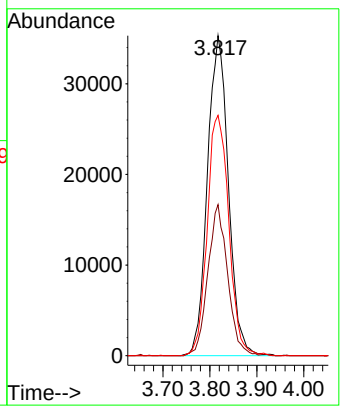


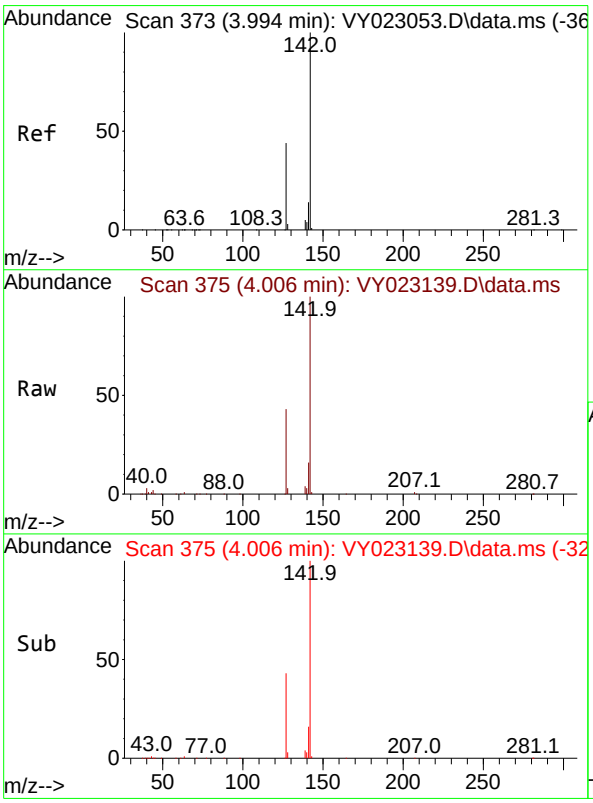

#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.510 ug/l
RT: 3.817 min Scan# 3
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion:101 Resp: 109139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 44.6 | 36.3 | 54.5 |
| 151 | 77.5 | 61.5 | 92.3 |

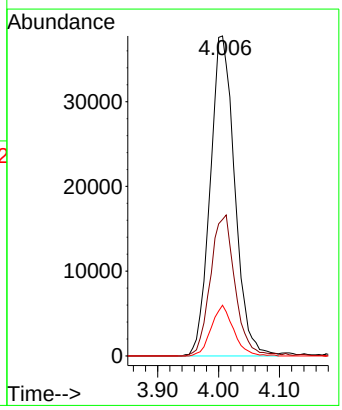


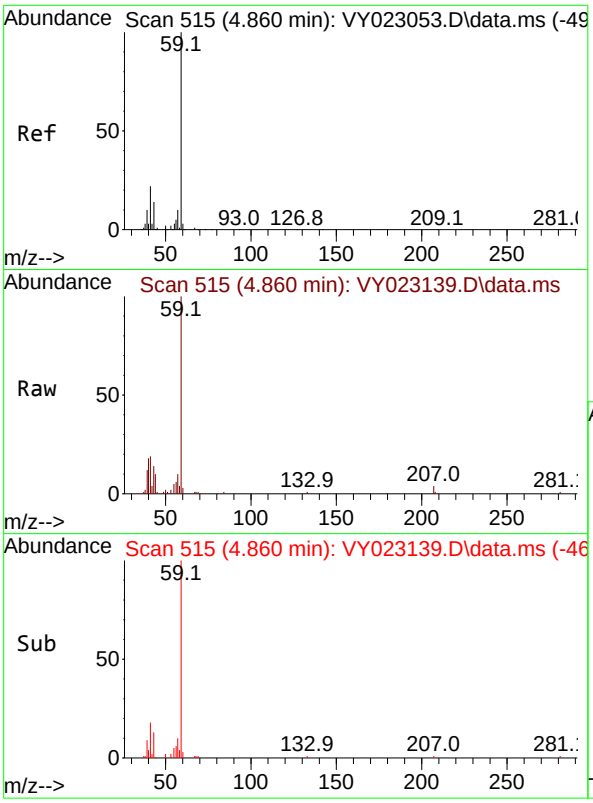




#10
Methyl Iodide
Concen: 19.260 ug/l
RT: 4.006 min Scan# 375
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:142 Resp: 105447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 44.5 | 34.9 | 52.3 |
| 141 | 14.5 | 11.3 | 16.9 |



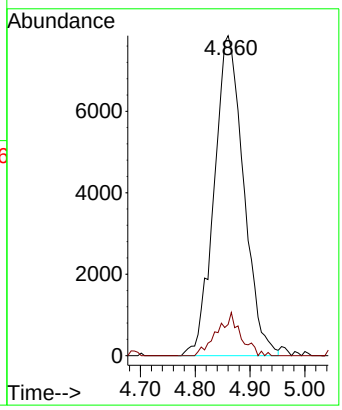


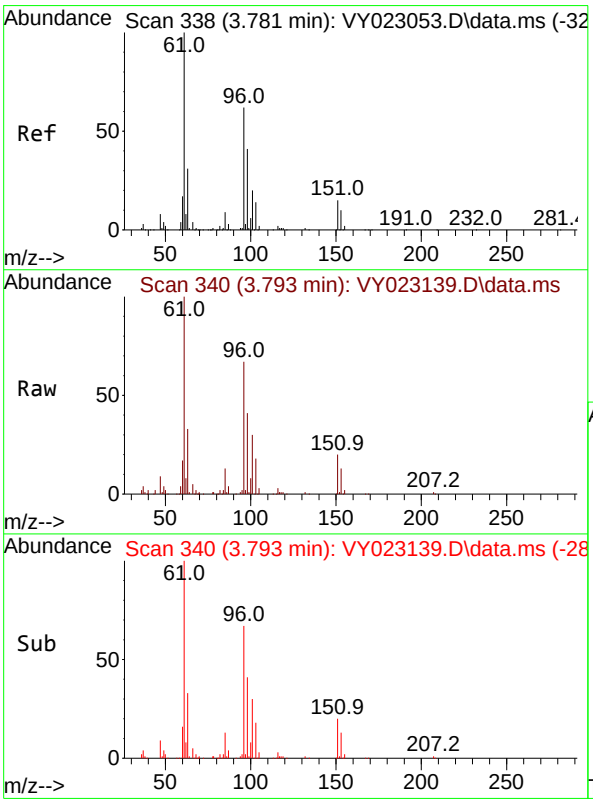

#11
Tert butyl alcohol
Concen: 86.885 ug/l
RT: 4.860 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion: 59 Resp: 29364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.8 | 8.6 | 13.0 |

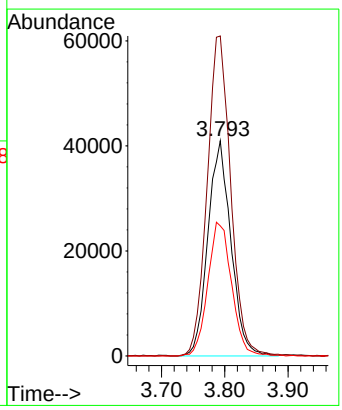


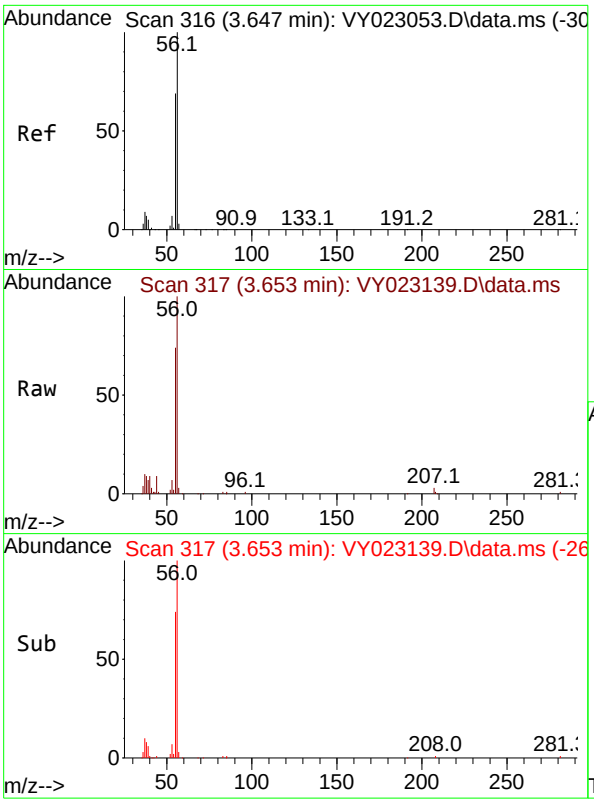




#12
1,1-Dichloroethene
Concen: 20.804 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 96 Resp: 103754

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 148.7 | 129.4 | 194.2 |
| 98 | 60.4 | 52.8 | 79.2 |



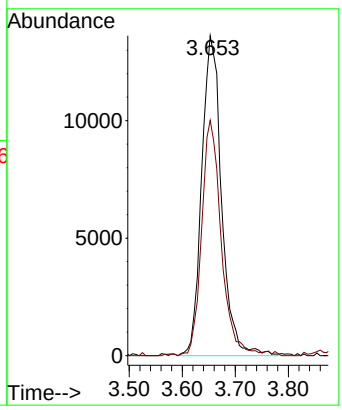


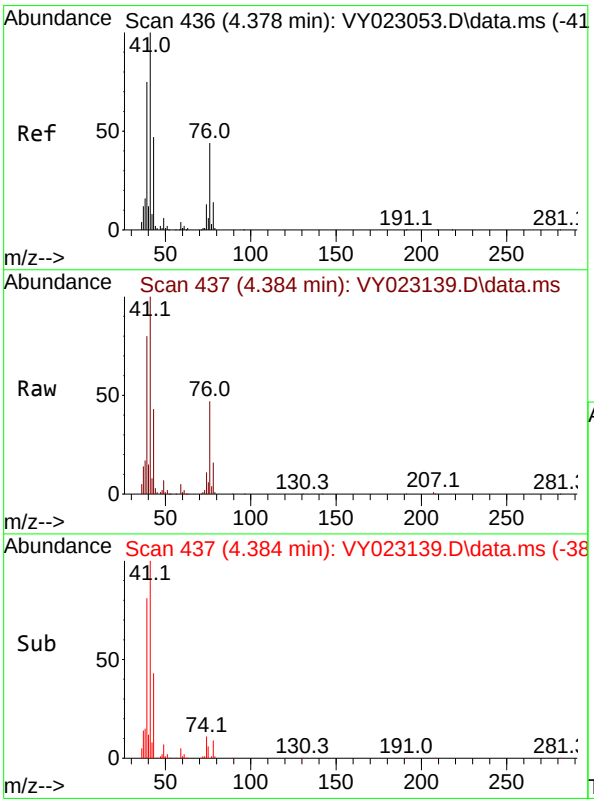

#13
Acrolein
Concen: 71.706 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion: 56 Resp: 35491

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 72.0 | 55.2 | 82.8 |

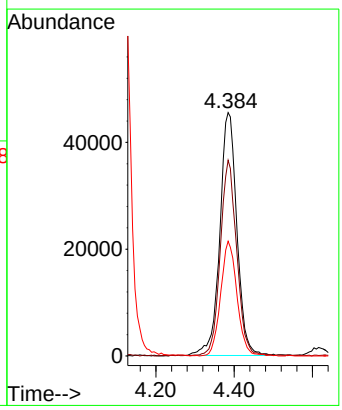


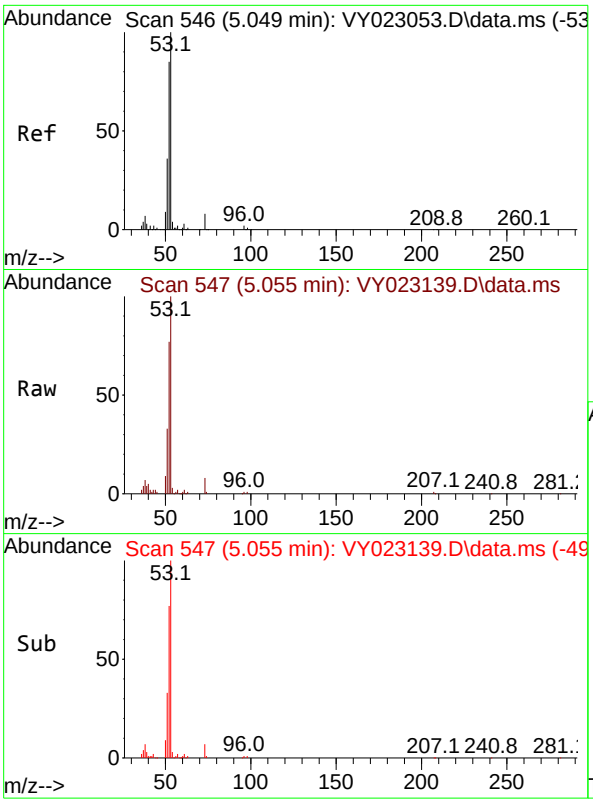




#14
Allyl chloride
Concen: 18.846 ug/l
RT: 4.384 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 41 Resp: 138299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 77.1 | 59.8 | 89.6 |
| 76 | 45.1 | 33.7 | 50.5 |



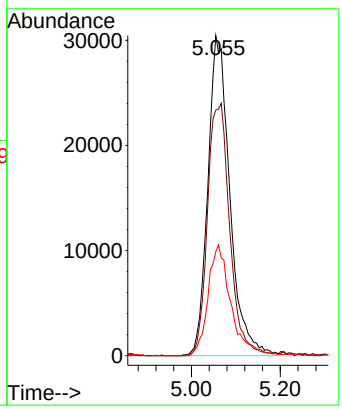


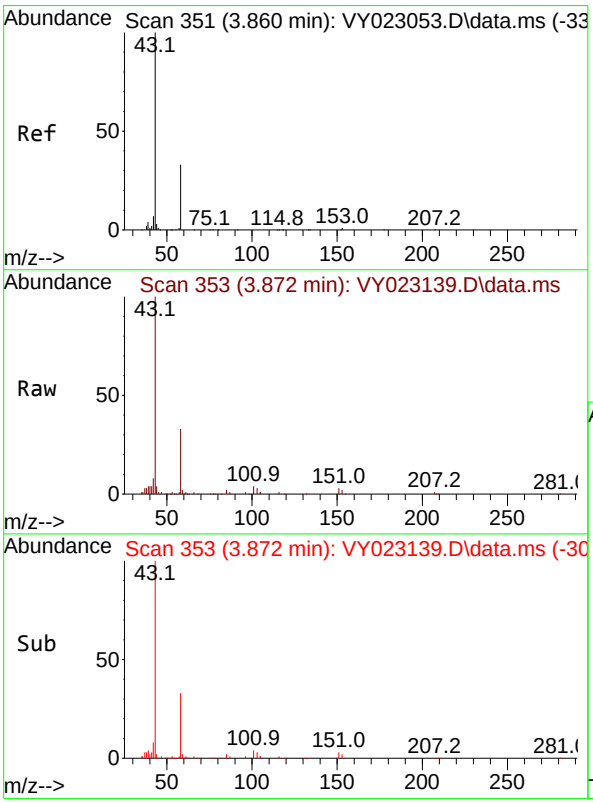

#15
Acrylonitrile
Concen: 94.488 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion: 53 Resp: 104521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 79.8 | 65.3 | 97.9 |
| 51 | 35.9 | 29.5 | 44.3 |

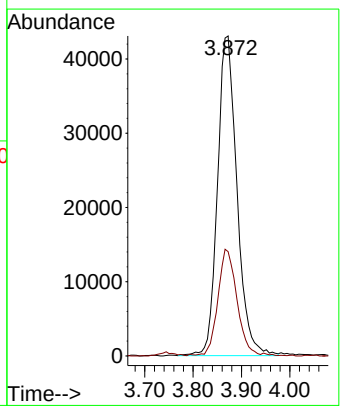


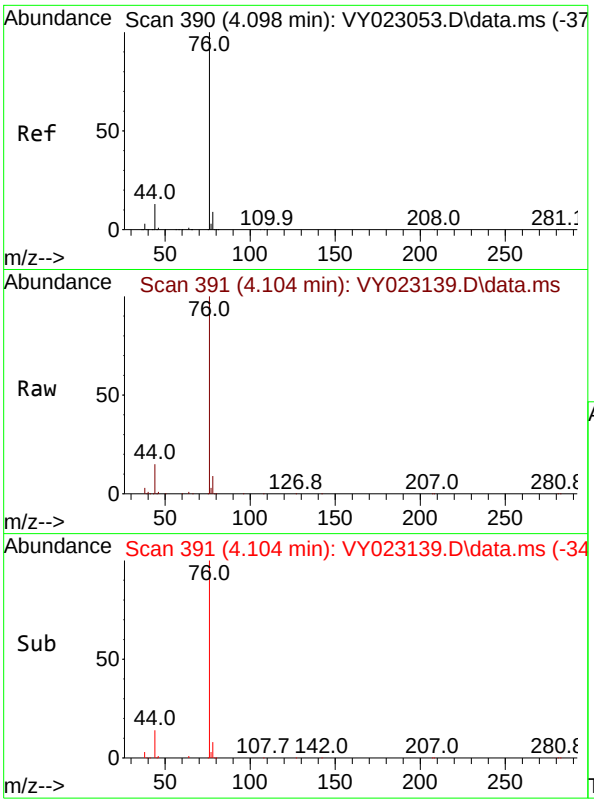




#16
Acetone
Concen: 112.685 ug/l
RT: 3.872 min Scan# 353
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 43 Resp: 120414

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.5 | 27.1 | 40.7 |



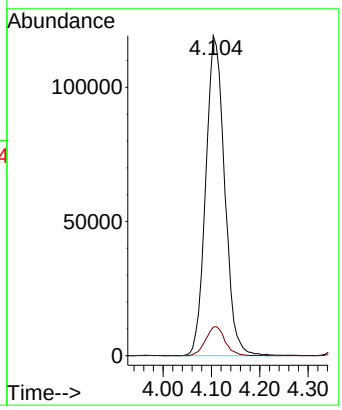


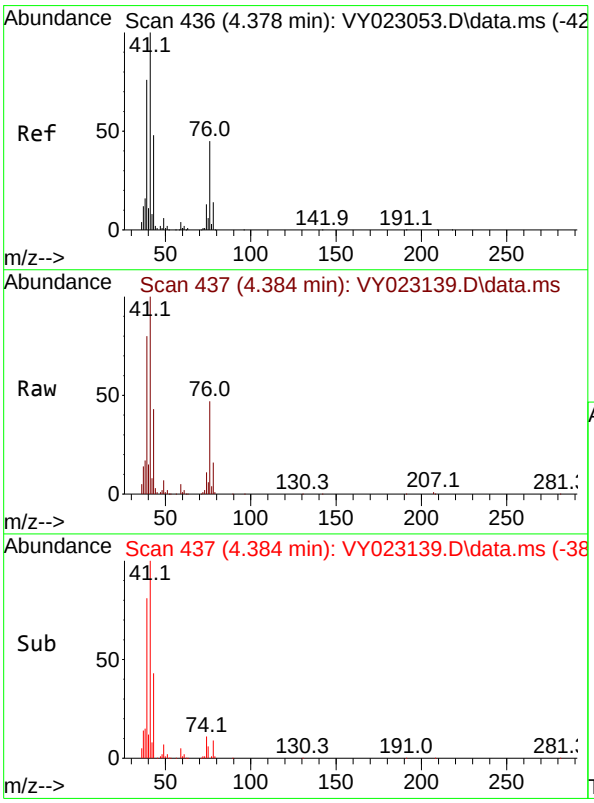

#17
Carbon Disulfide
Concen: 19.905 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion: 76 Resp: 323680

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.9 | 7.4 | 11.2 |

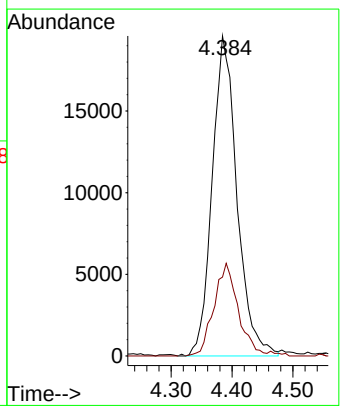


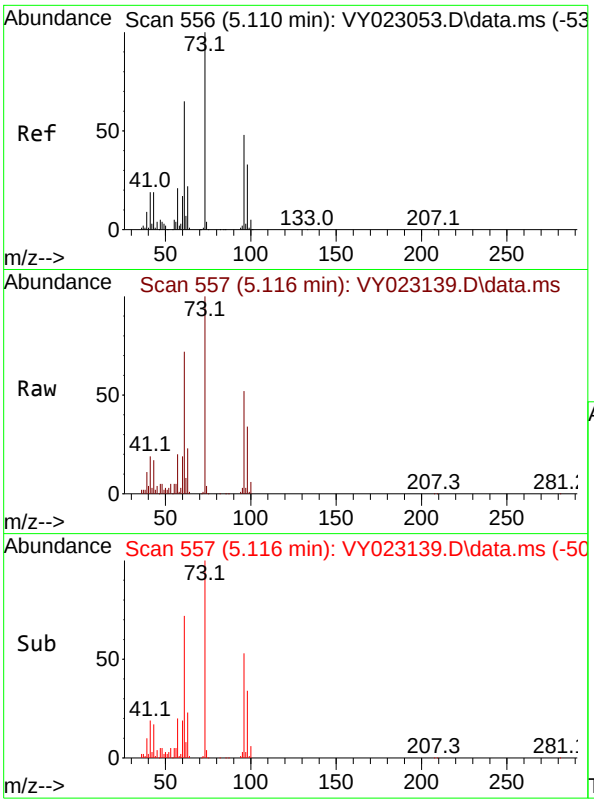




#18
Methyl Acetate
Concen: 17.426 ug/l
RT: 4.384 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 43 Resp: 55412

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 28.3 | 21.2 | 31.8 |



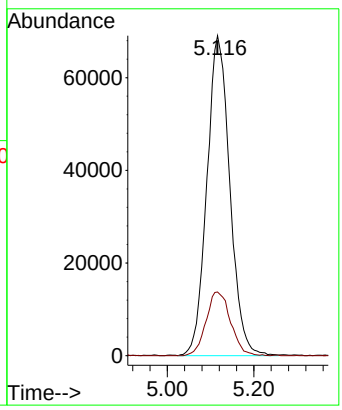


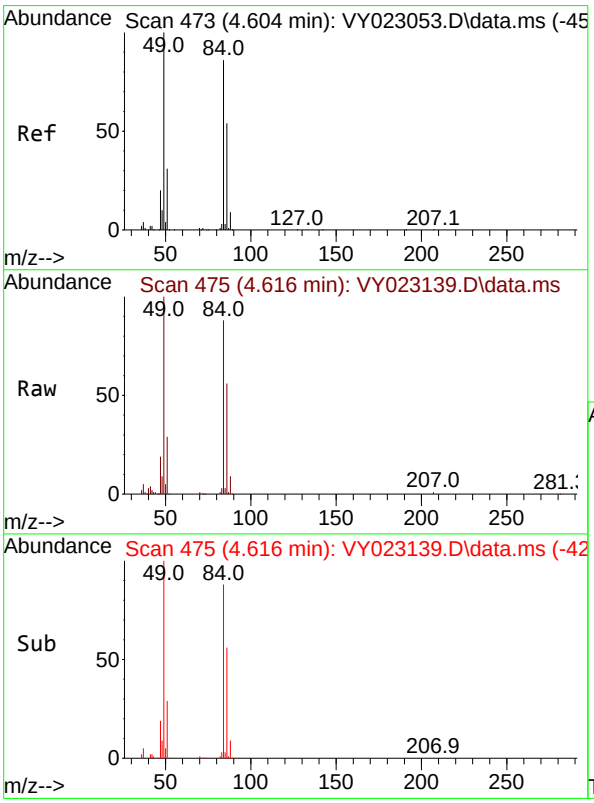

#19
Methyl tert-butyl Ether
Concen: 19.720 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion: 73 Resp: 254848

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 19.9 | 17.1 | 25.7 |

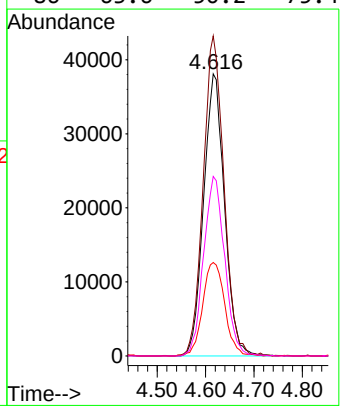


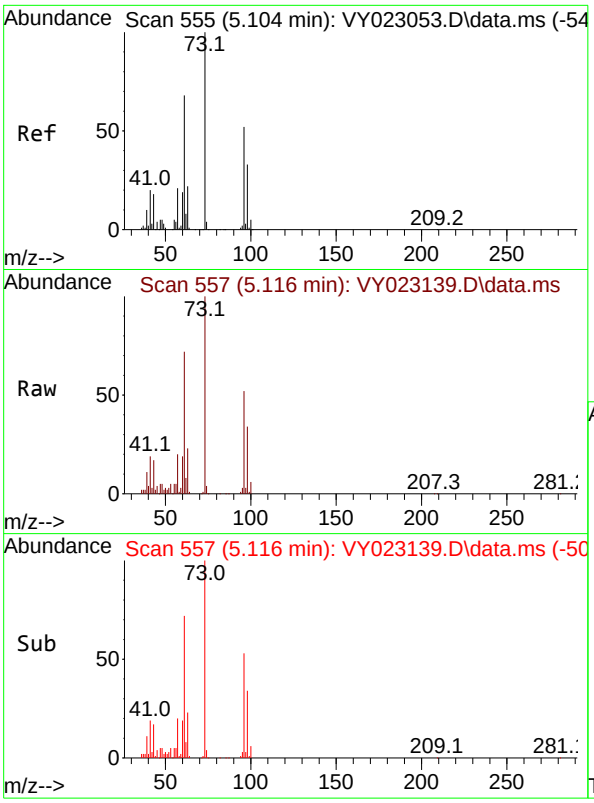




#20
Methylene Chloride
Concen: 18.875 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 84 Resp: 114203

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 113.2 | 93.0 | 139.6 |
| 51 | 33.1 | 29.0 | 43.4 |
| 86 | 63.6 | 50.2 | 75.4 |



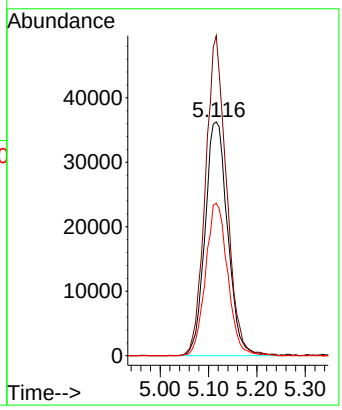


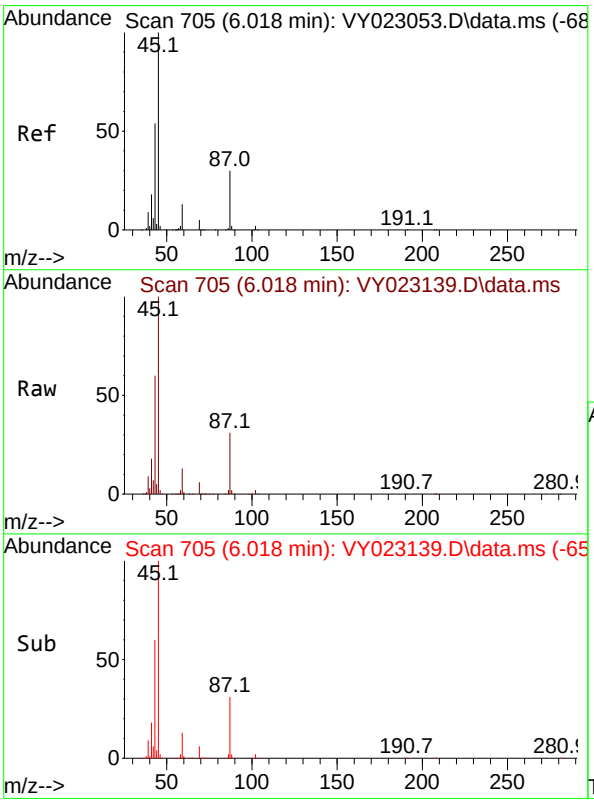

#21
trans-1,2-Dichloroethene
Concen: 20.993 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion: 96 Resp: 117658

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 136.8 | 104.8 | 157.2 |
| 98 | 65.2 | 50.1 | 75.1 |

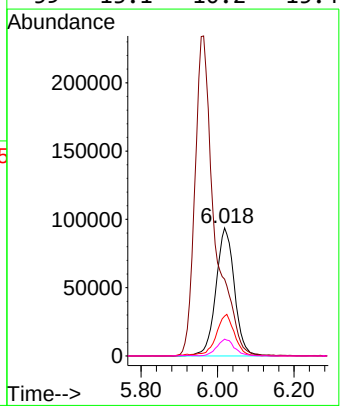


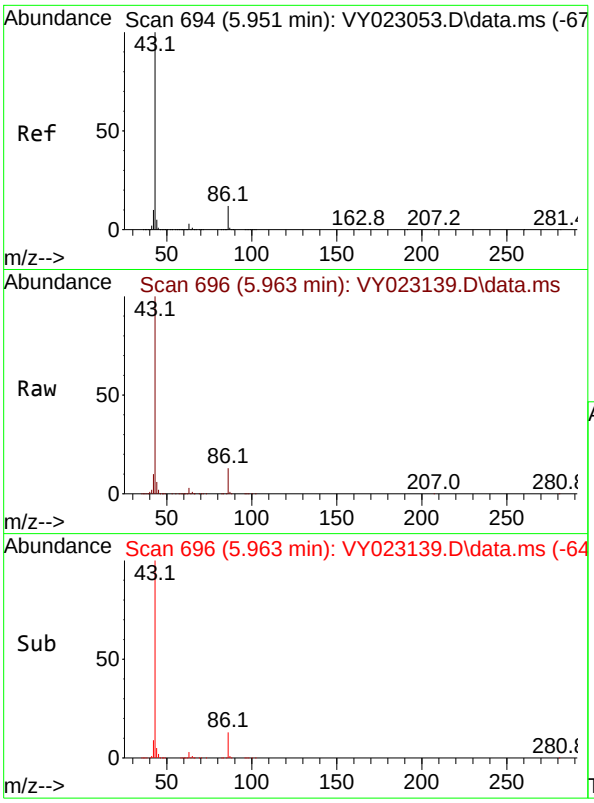




#22
Diisopropyl ether
Concen: 19.728 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 45 Resp: 314582

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 59.6 | 43.4 | 65.0 |
| 87 | 31.1 | 24.4 | 36.6 |
| 59 | 13.1 | 10.2 | 15.4 |



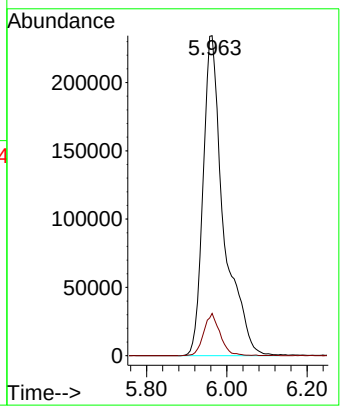


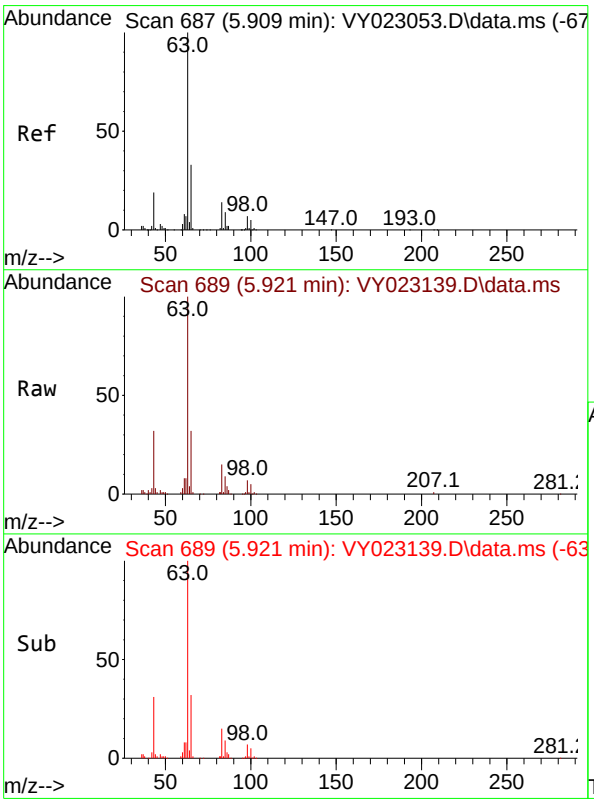

#23
Vinyl Acetate
Concen: 94.938 ug/l
RT: 5.963 min Scan# 6
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion: 43 Resp: 837107

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 13.2 | 9.6 | 14.4 |

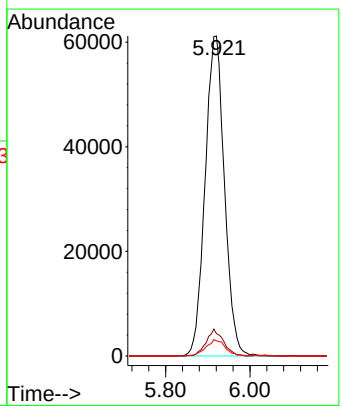


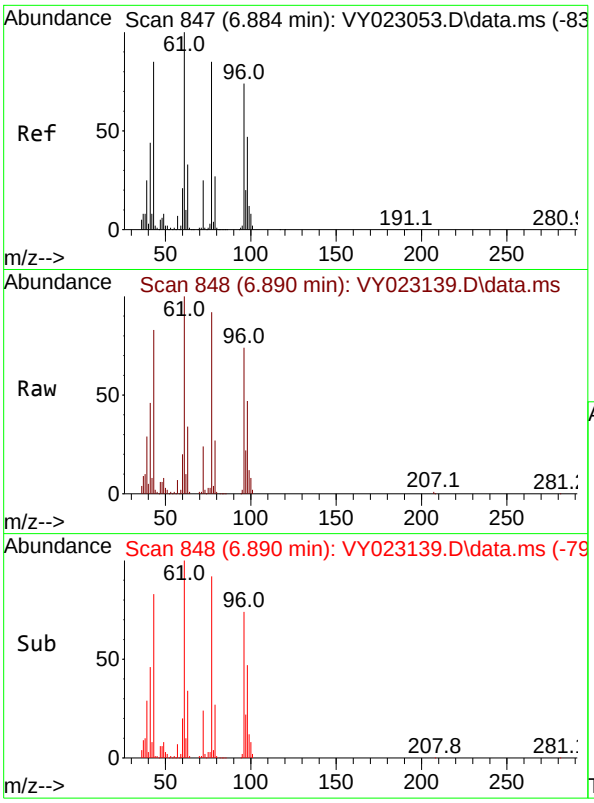




#24
1,1-Dichloroethane
Concen: 19.979 ug/l
RT: 5.921 min Scan# 689
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 63 Resp: 194782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.0 | 3.5 | 10.6 |
| 100 | 4.7 | 2.4 | 7.1 |



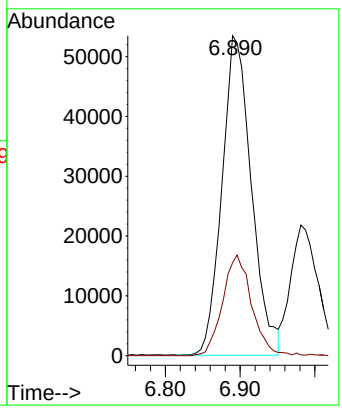


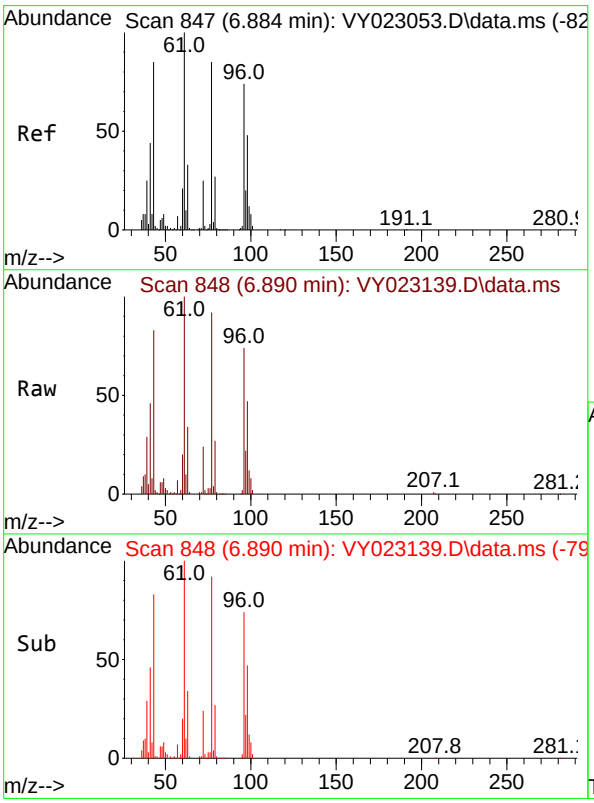

#25
2-Butanone
Concen: 100.847 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion: 43 Resp: 146563

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 29.1 | 23.5 | 35.3 |

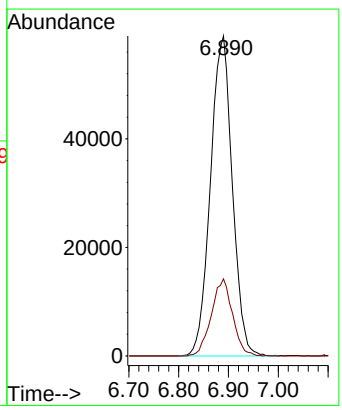


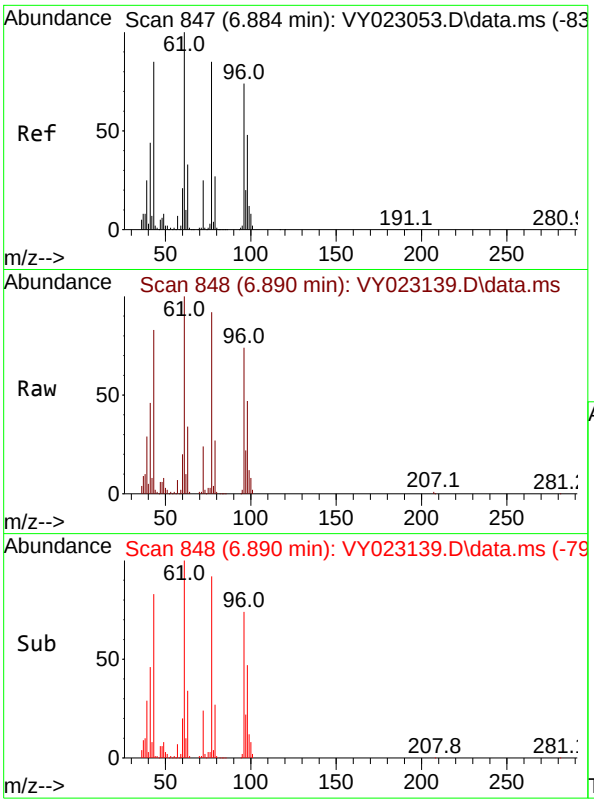




#26
2,2-Dichloropropane
Concen: 21.352 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 77 Resp: 179625

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.3 | 11.6 | 34.8 |



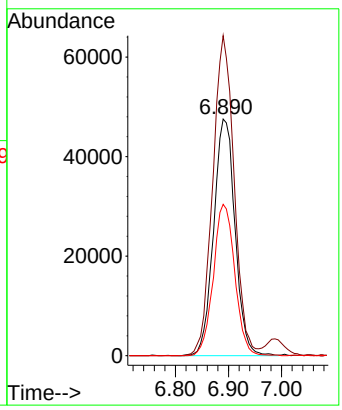


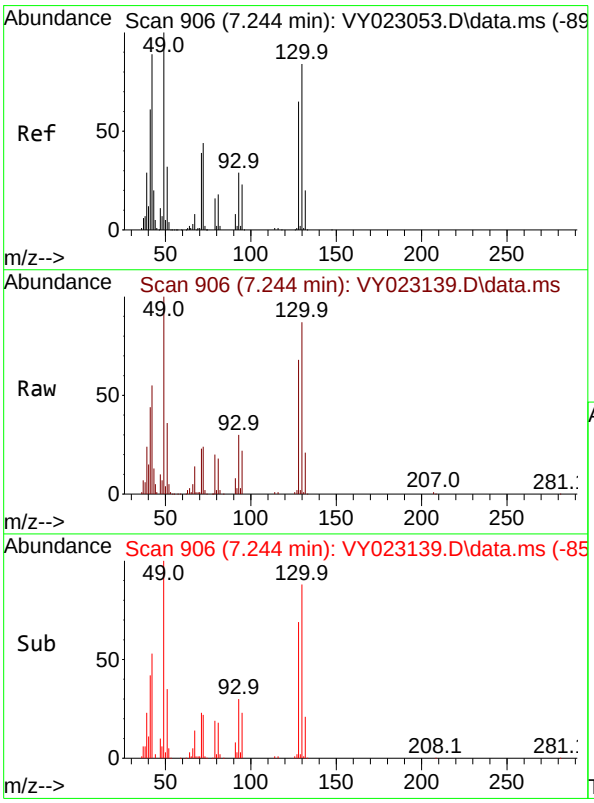

#27
cis-1,2-Dichloroethene
Concen: 20.582 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion: 96 Resp: 133354

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 135.3 | 0.0 | 278.6 |
| 98 | 64.1 | 0.0 | 130.4 |

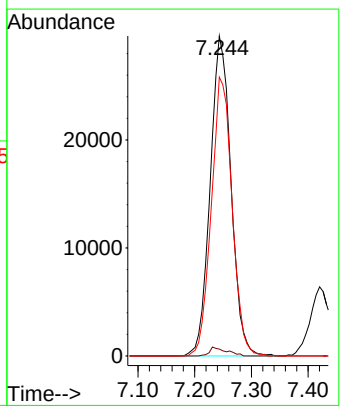


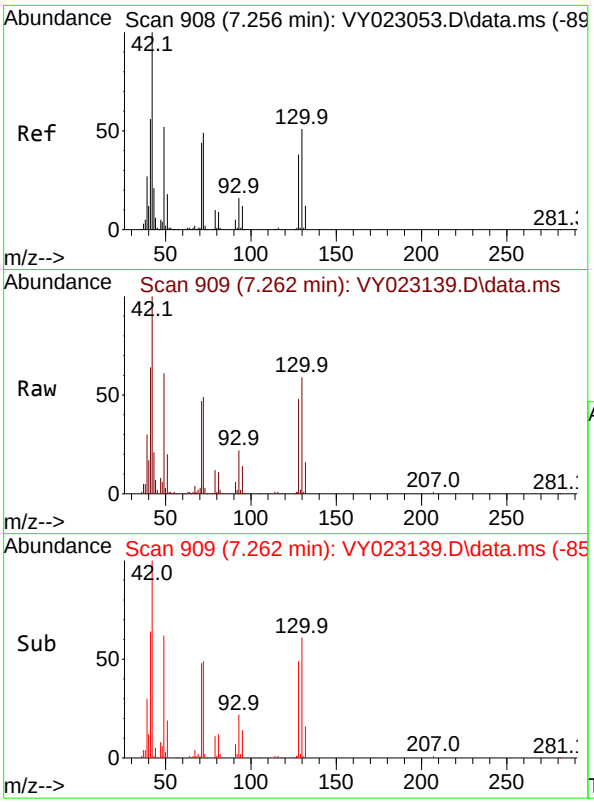




#28
Bromochloromethane
Concen: 19.474 ug/l
RT: 7.244 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 49 Resp: 75324

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.3 | 0.0 | 4.2 |
| 130 | 87.0 | 66.4 | 99.6 |



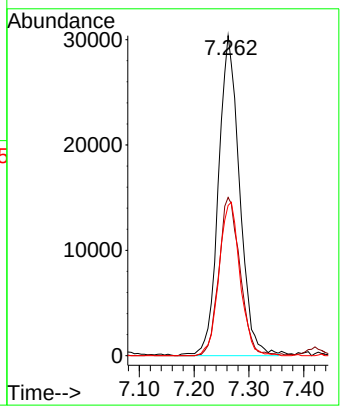


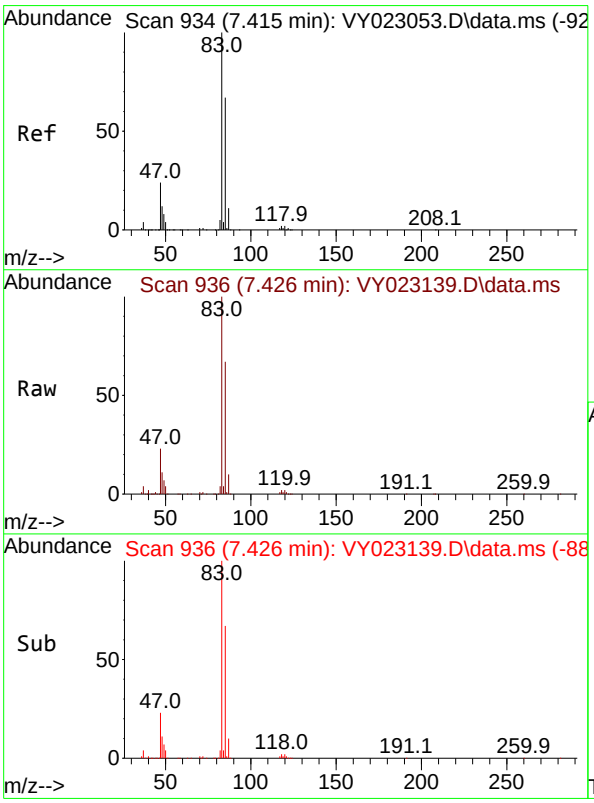

#29
Tetrahydrofuran
Concen: 90.389 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion: 42 Resp: 81427

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 49.9 | 39.4 | 59.2 |
| 71 | 47.8 | 36.5 | 54.7 |

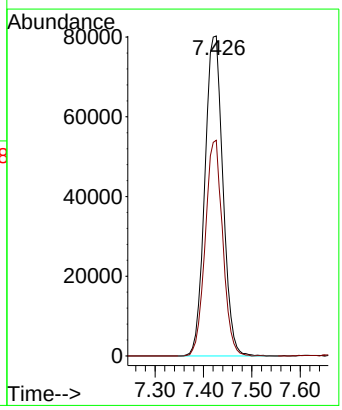


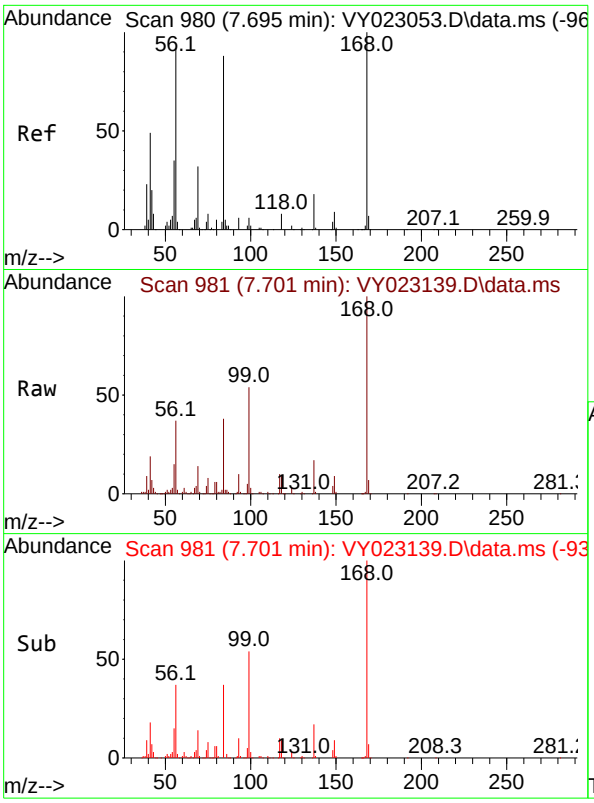




#30
Chloroform
Concen: 20.690 ug/l
RT: 7.426 min Scan# 936
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 83 Resp: 208029

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 67.4 | 53.8 | 80.8 |



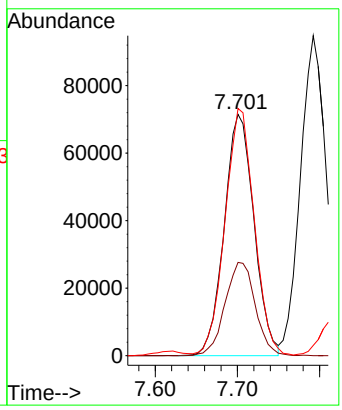


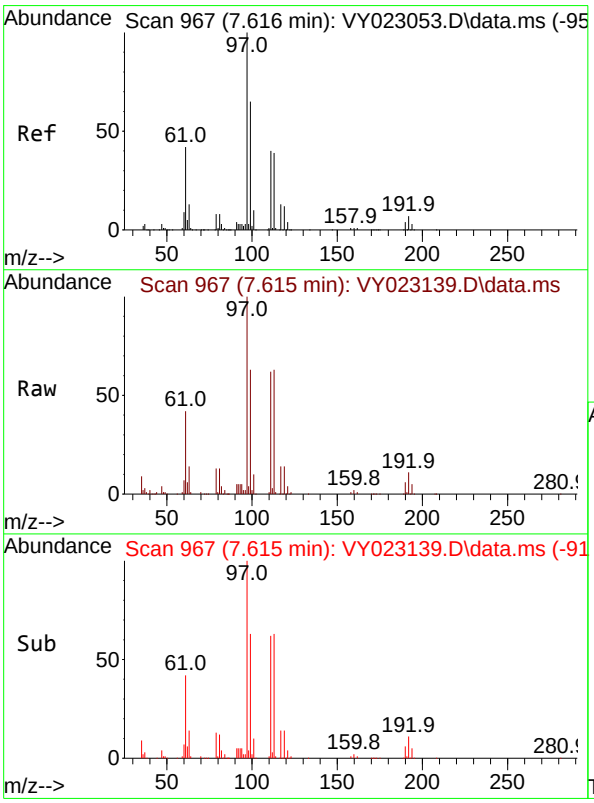

#31
Cyclohexane
Concen: 19.640 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion: 56 Resp: 180441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 38.6 | 28.2 | 42.2 |
| 84 | 101.0 | 76.6 | 114.8 |

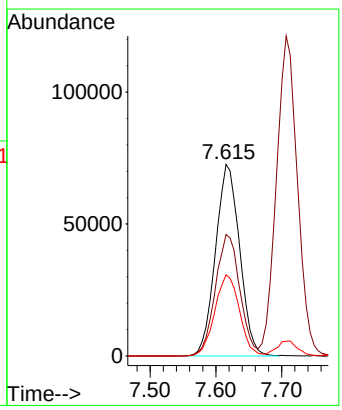


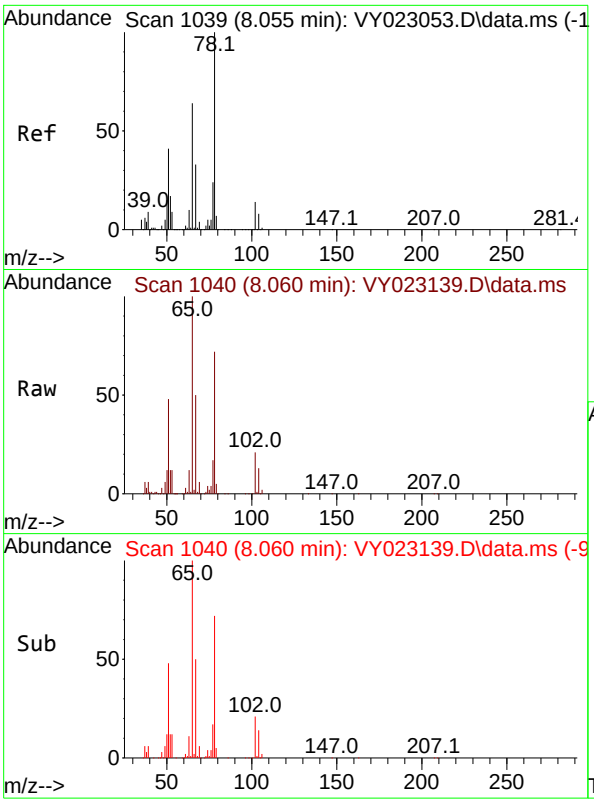




#32
1,1,1-Trichloroethane
Concen: 20.833 ug/l
RT: 7.615 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 97 Resp: 185862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.2 | 51.6 | 77.4 |
| 61 | 43.2 | 34.2 | 51.2 |



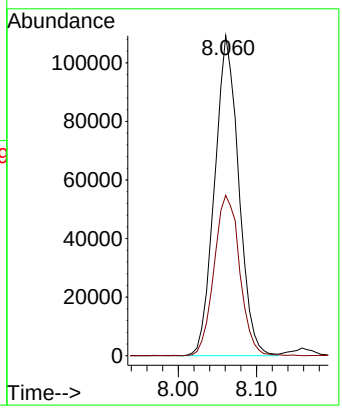


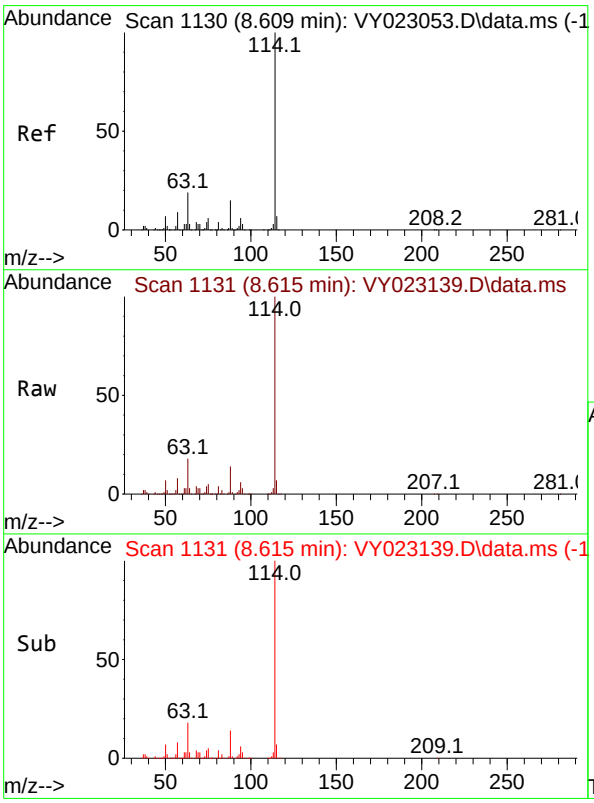

#33
1,2-Dichloroethane-d4
Concen: 47.365 ug/l
RT: 8.060 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion: 65 Resp: 233623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.2 | 0.0 | 106.8 |

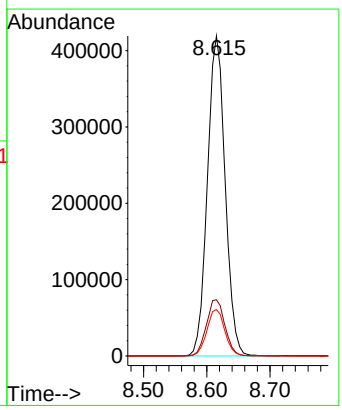


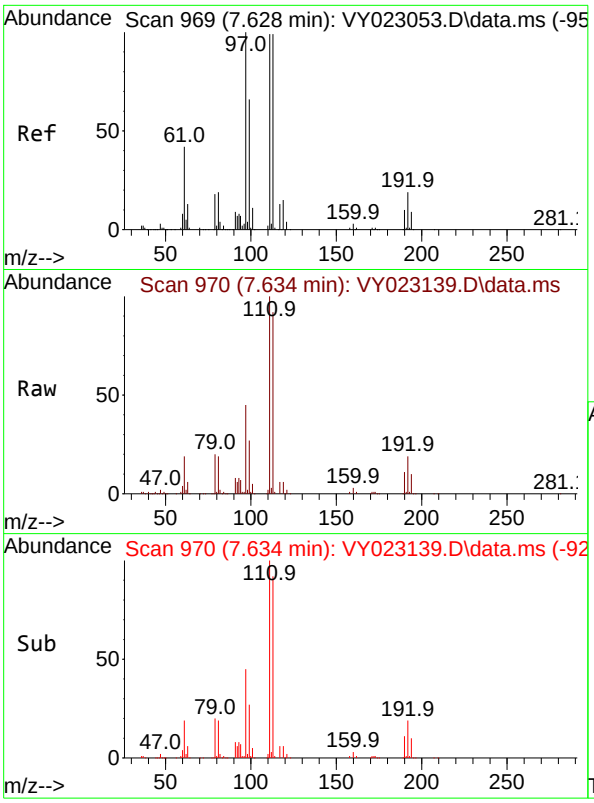




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:114 Resp: 816918

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 17.5 | 0.0 | 38.4 |
| 88 | 14.5 | 0.0 | 30.0 |



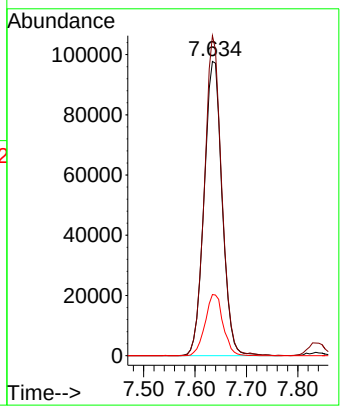


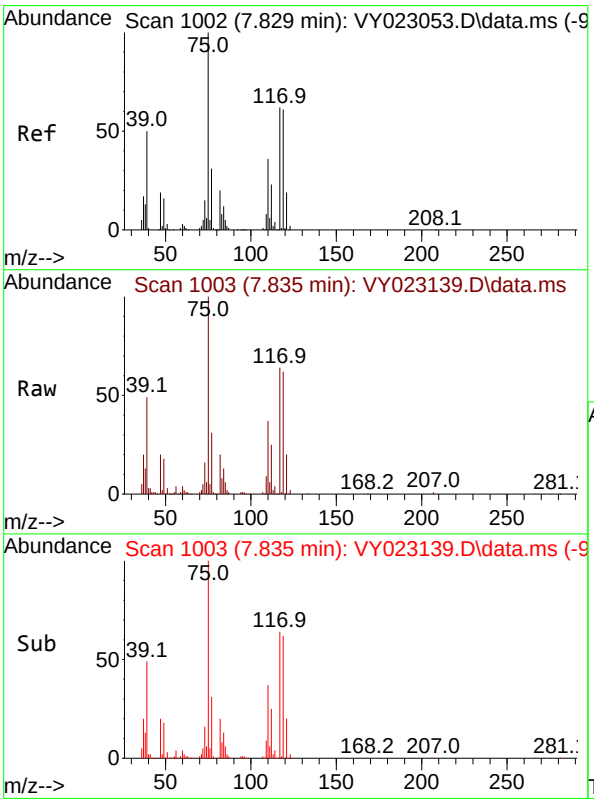

#35
Dibromofluoromethane
Concen: 48.567 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion:113 Resp: 237406

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 104.2 | 81.1 | 121.7 |
| 192 | 20.8 | 16.2 | 24.4 |

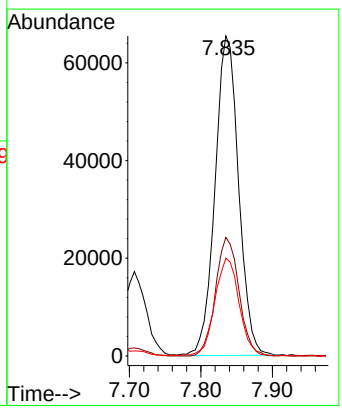


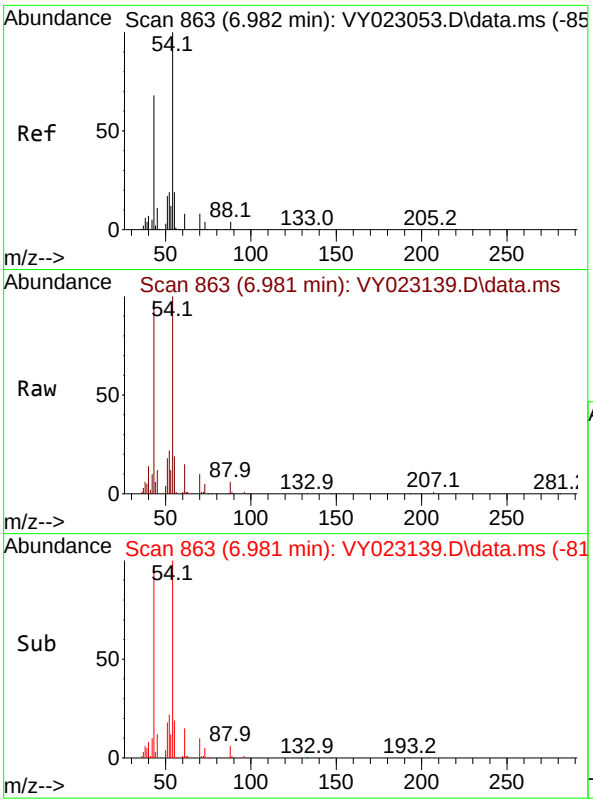




#36
1,1-Dichloropropene
Concen: 20.606 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 75 Resp: 149696

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 37.0 | 18.1 | 54.4 |
| 77 | 31.6 | 24.6 | 37.0 |



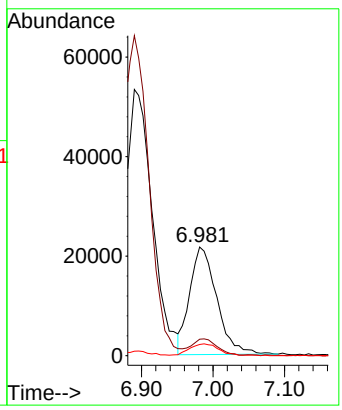


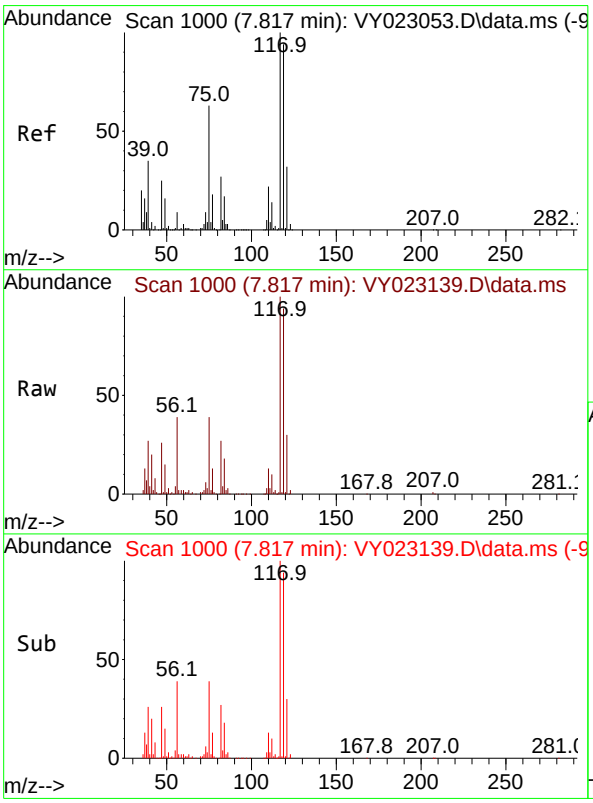

#37
Ethyl Acetate
Concen: 18.660 ug/l
RT: 6.981 min Scan# 8
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion: 43 Resp: 56943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.4 | 11.9 | 17.9 |
| 70 | 12.3 | 8.8 | 13.2 |

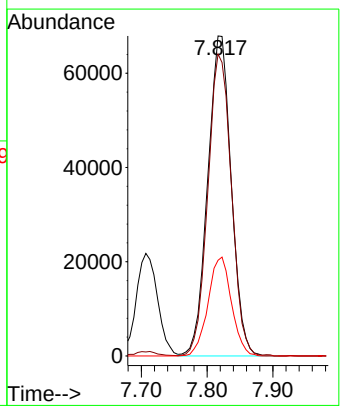


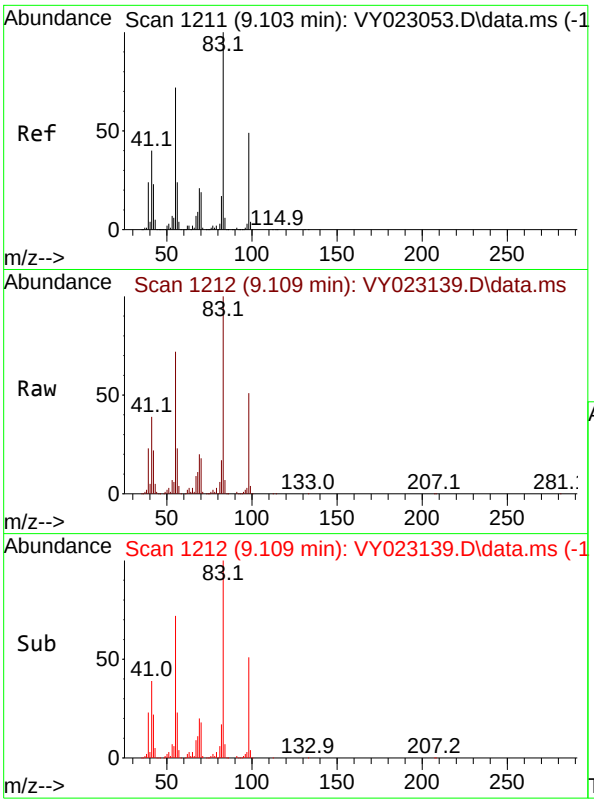




#38
Carbon Tetrachloride
Concen: 21.430 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:117 Resp: 169089

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.3 | 75.6 | 113.4 |
| 121 | 29.9 | 25.8 | 38.8 |



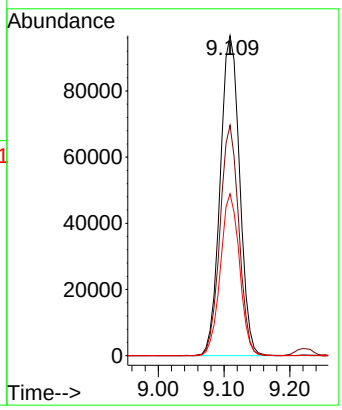


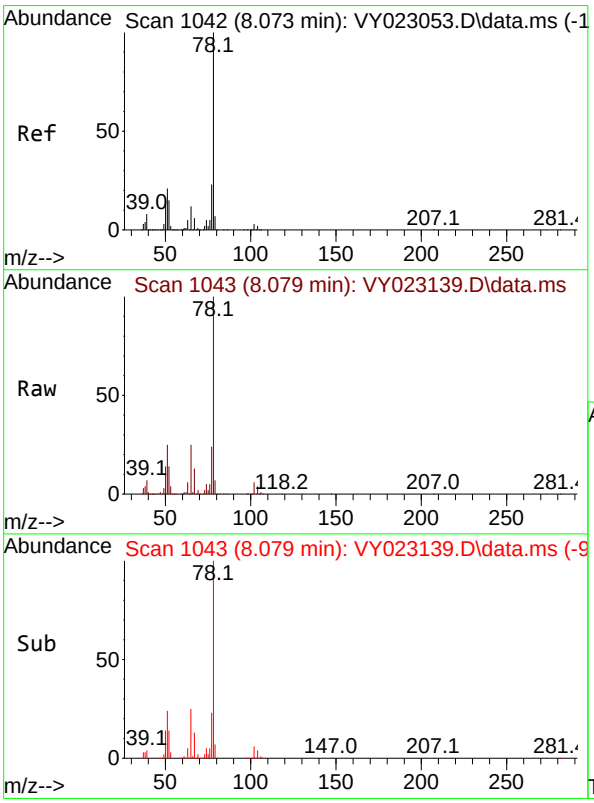

#39
Methylcyclohexane
Concen: 20.803 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion: 83 Resp: 199011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 72.0 | 57.6 | 86.4 |
| 98 | 50.6 | 39.2 | 58.8 |

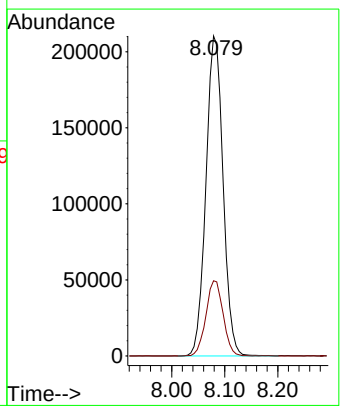


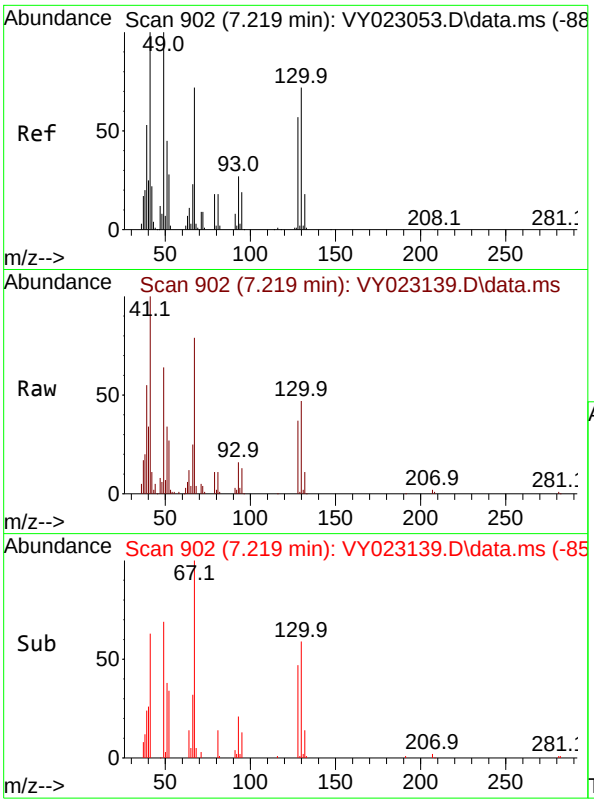




#40
Benzene
Concen: 21.055 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 78 Resp: 471421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.5 | 18.6 | 28.0 |



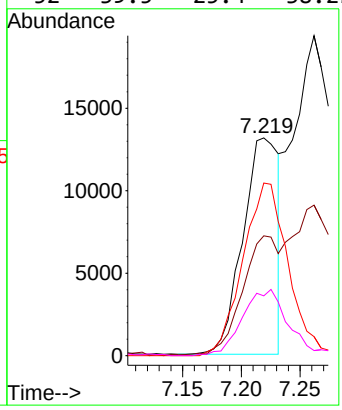


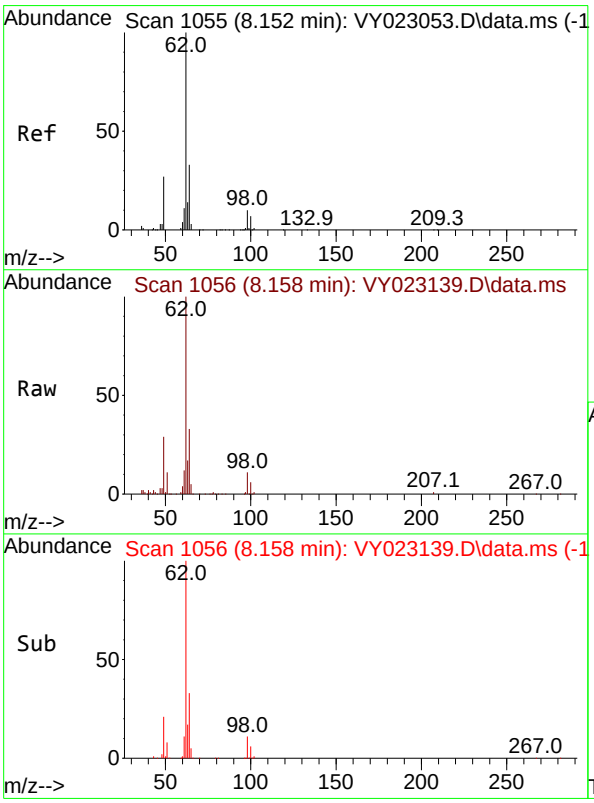

#41
Methacrylonitrile
Concen: 15.786 ug/l
RT: 7.219 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion: 41 Resp: 27802

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 55.8 | 43.4 | 65.2 |
| 67 | 101.3 | 63.6 | 95.4# |
| 52 | 39.5 | 25.4 | 38.2# |

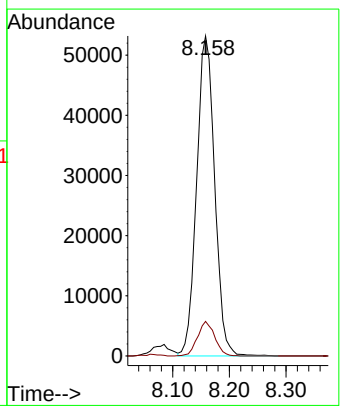


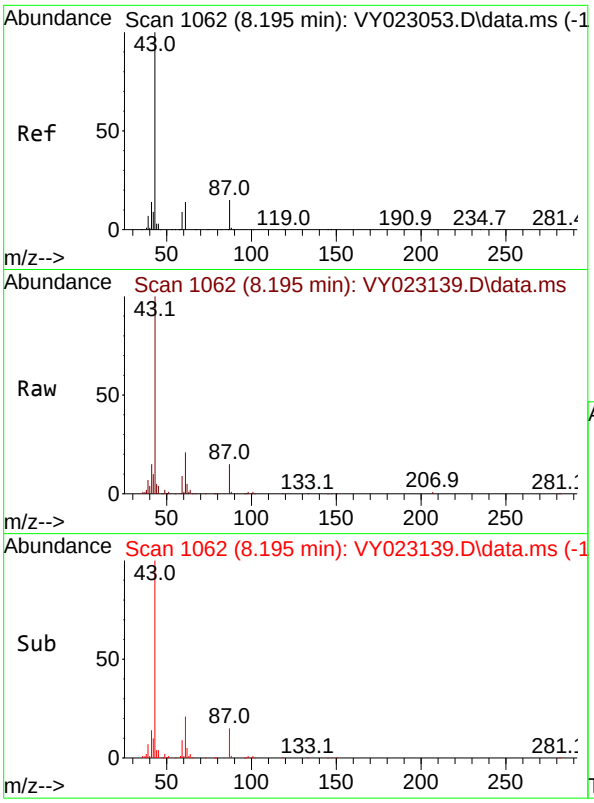




#42
1,2-Dichloroethane
Concen: 20.187 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 62 Resp: 117552

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.4 | 0.0 | 20.6 |



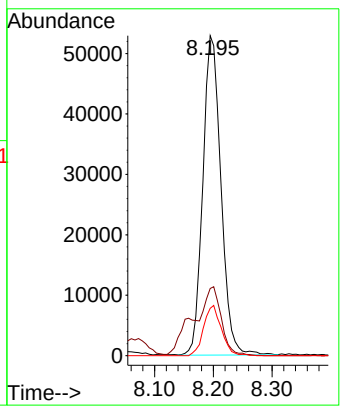


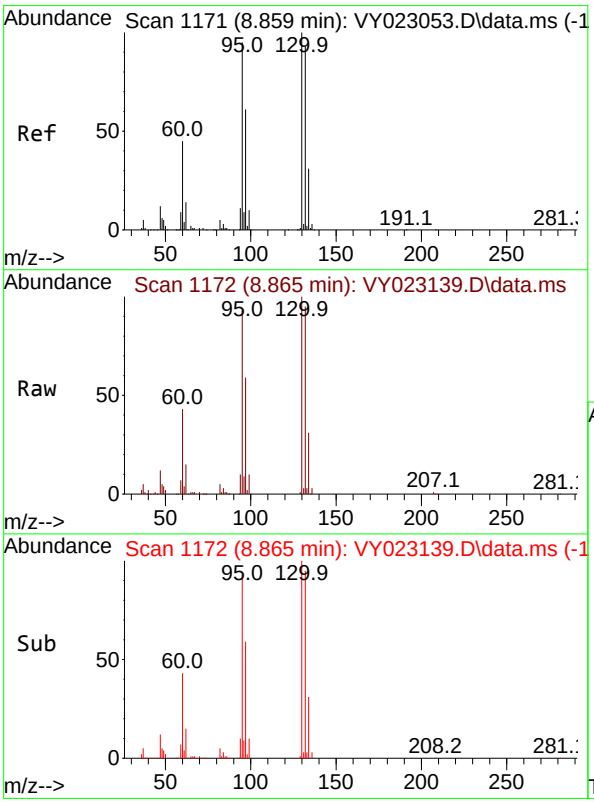

#43
Isopropyl Acetate
Concen: 18.431 ug/l
RT: 8.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion: 43 Resp: 113681

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 20.5 | 16.4 | 24.6 |
| 87 | 15.4 | 11.8 | 17.6 |

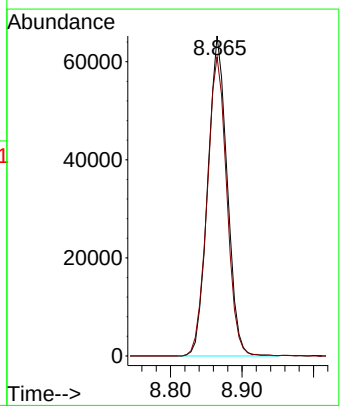


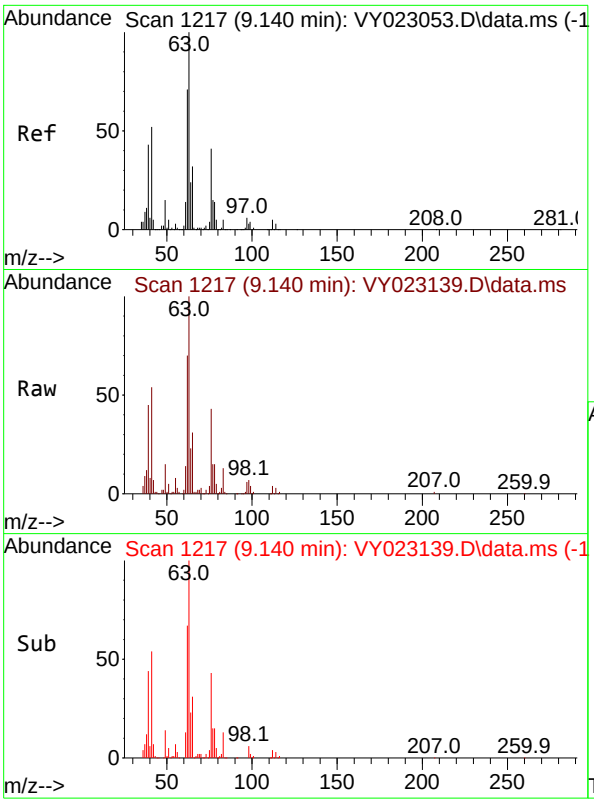




#44
Trichloroethene
Concen: 21.187 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:130 Resp: 122590

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 93.5 | 0.0 | 190.2 |



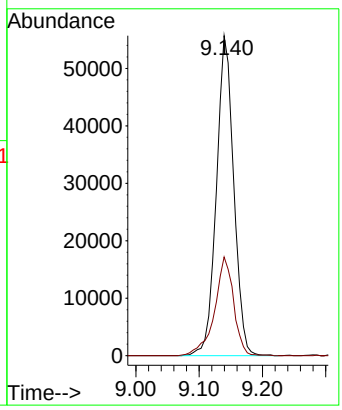


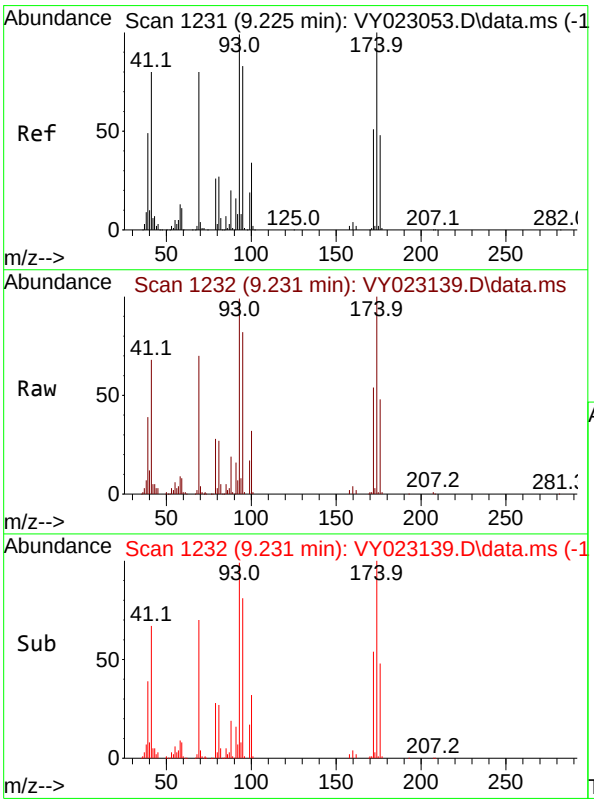

#45
1,2-Dichloropropane
Concen: 20.506 ug/l
RT: 9.140 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion: 63 Resp: 105641

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.9 | 25.3 | 37.9 |

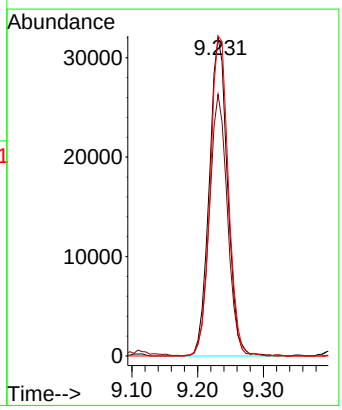


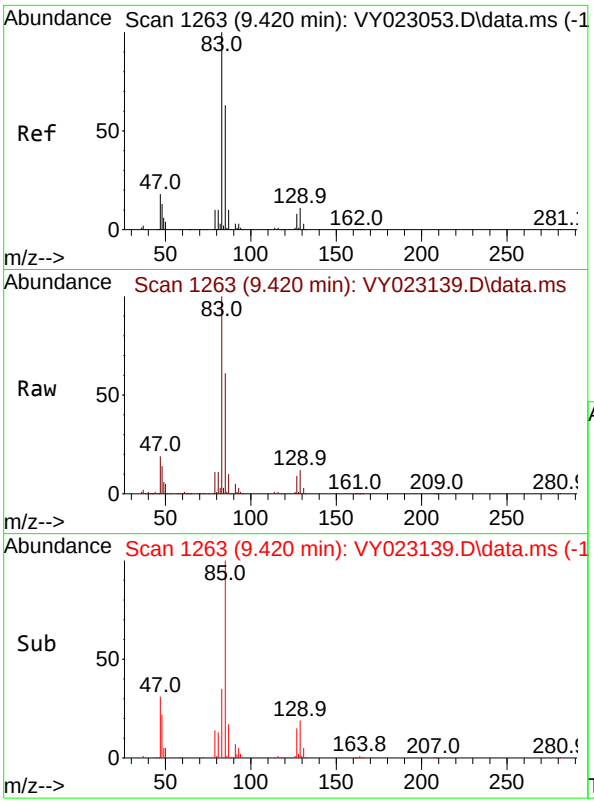




#46
Dibromomethane
Concen: 20.972 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 93 Resp: 62014

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 81.1 | 66.5 | 99.7 |
| 174 | 99.4 | 81.8 | 122.8 |



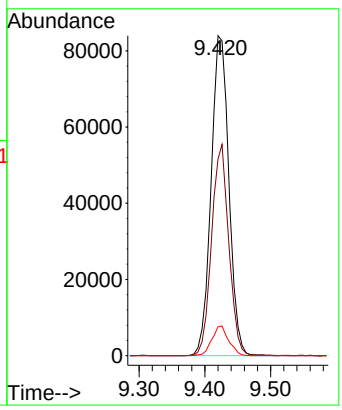


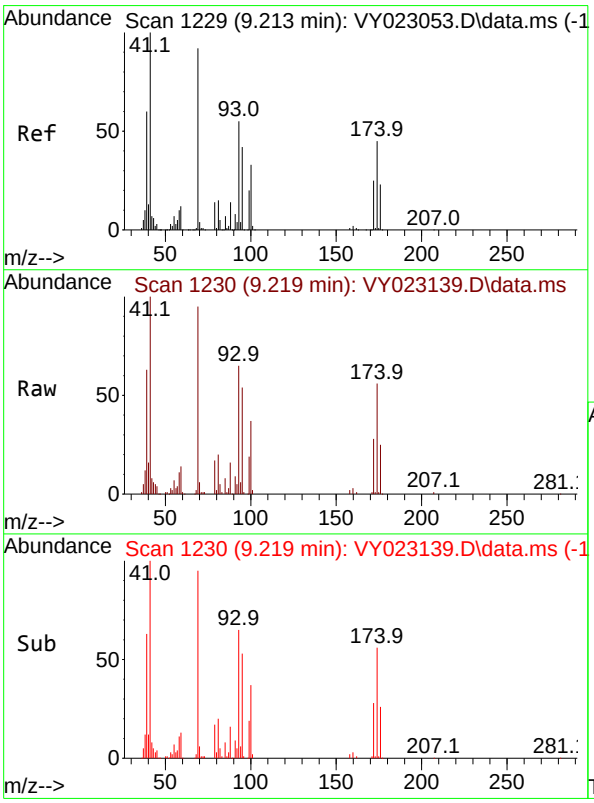

#47
Bromodichloromethane
Concen: 20.725 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion: 83 Resp: 157692

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 61.5 | 50.2 | 75.4 |
| 127 | 9.1 | 6.6 | 10.0 |

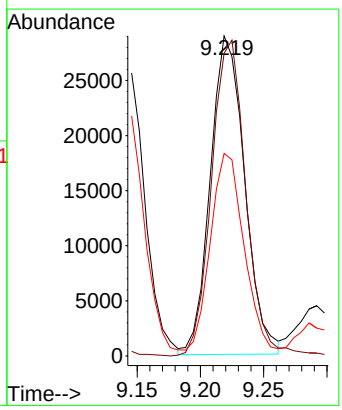


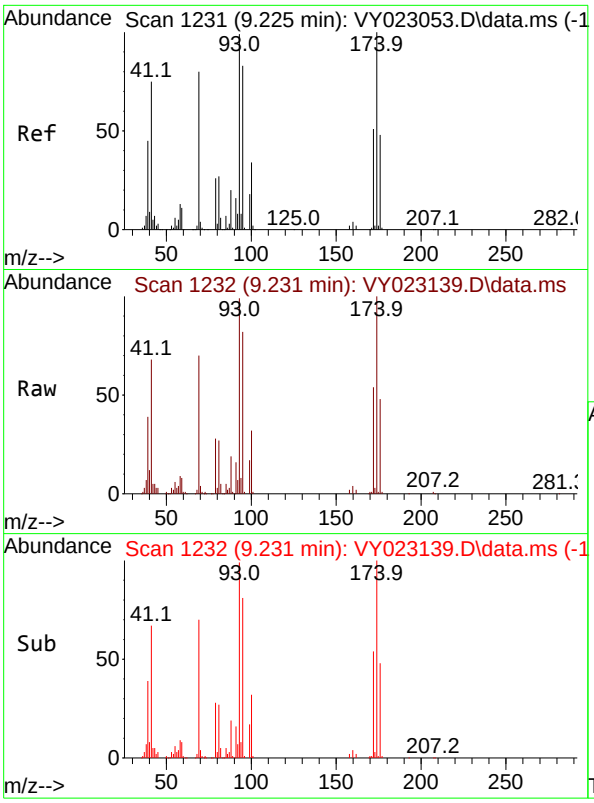




#48
Methyl methacrylate
Concen: 18.499 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 41 Resp: 54599

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 99.3 | 73.2 | 109.8 |
| 39 | 62.8 | 47.0 | 70.4 |



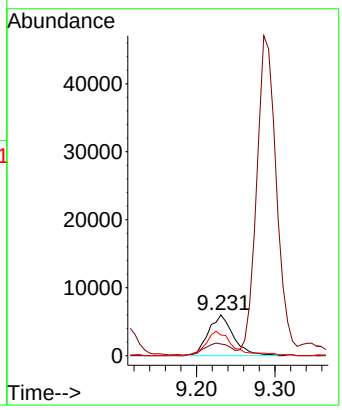


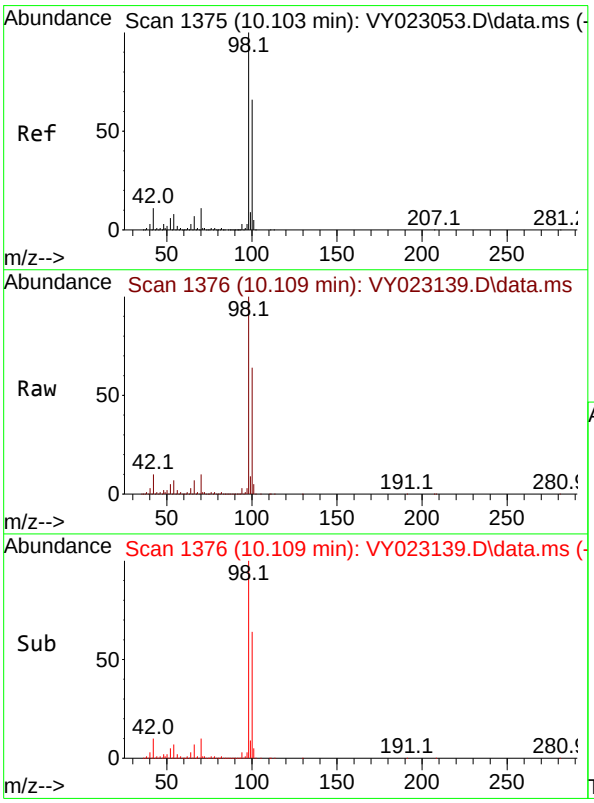

#49
1,4-Dioxane
Concen: 383.459 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion: 88 Resp: 13295

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 29.3 | 24.3 | 36.5 |
| 58 | 65.0 | 55.4 | 83.0 |

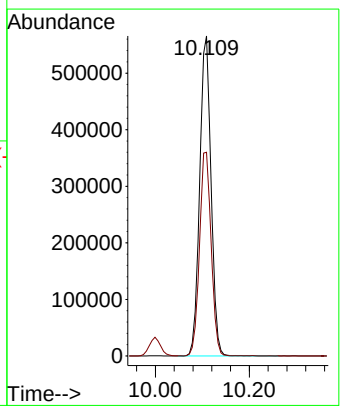


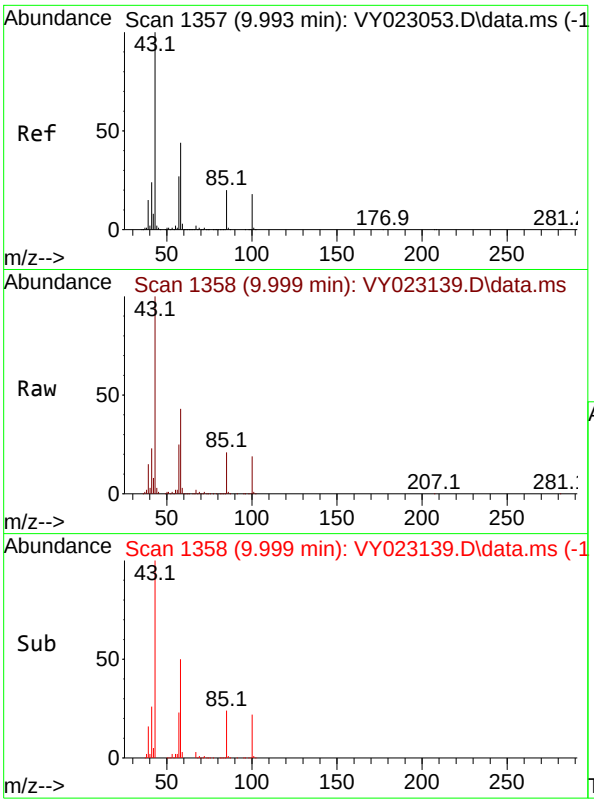




#50
Toluene-d8
Concen: 49.608 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 98 Resp: 947313

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.4 | 52.3 | 78.5 |



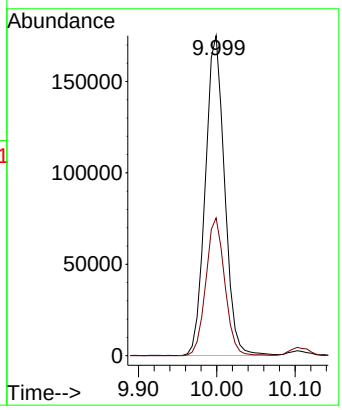


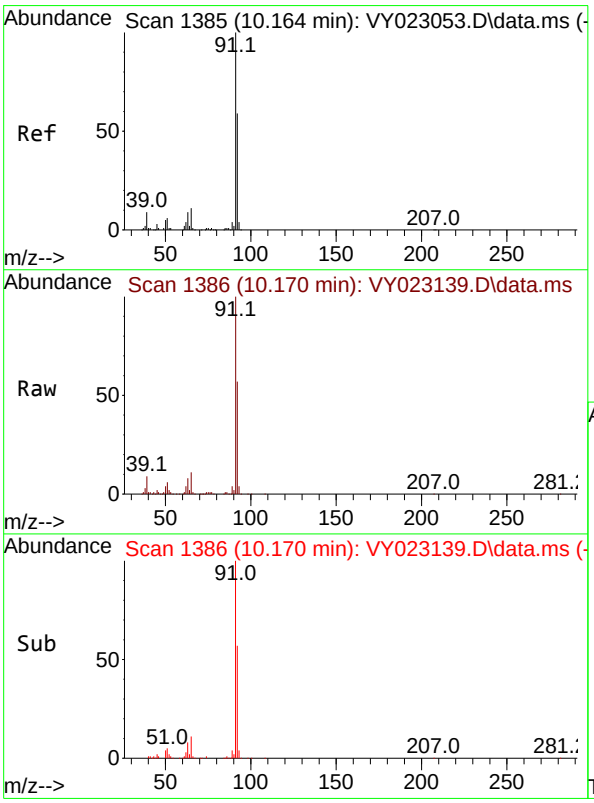

#51
4-Methyl-2-Pentanone
Concen: 93.721 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion: 43 Resp: 298177

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 42.3 | 33.5 | 50.3 |

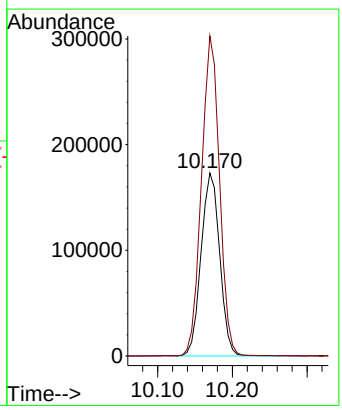


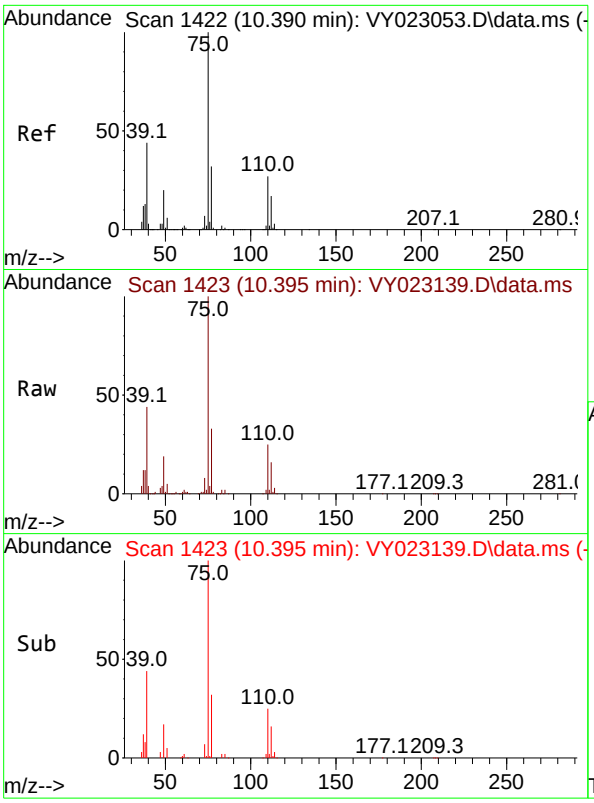




#52
Toluene
Concen: 21.028 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 92 Resp: 299030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 169.8 | 136.4 | 204.6 |



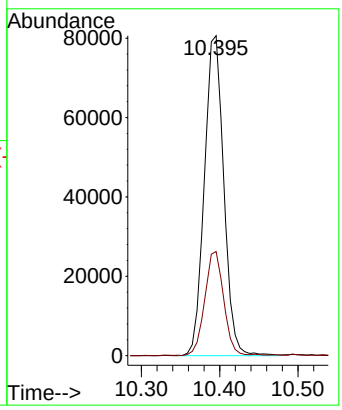


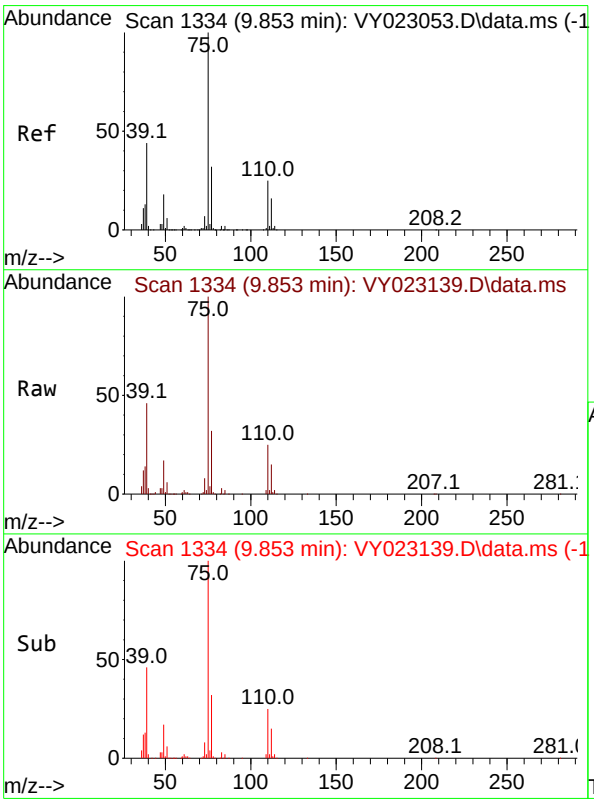

#53
t-1,3-Dichloropropene
Concen: 20.144 ug/l
RT: 10.395 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion: 75 Resp: 138793

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.4 | 25.7 | 38.5 |

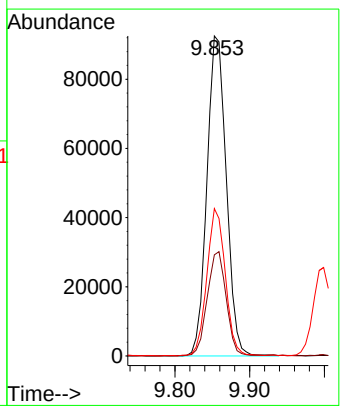


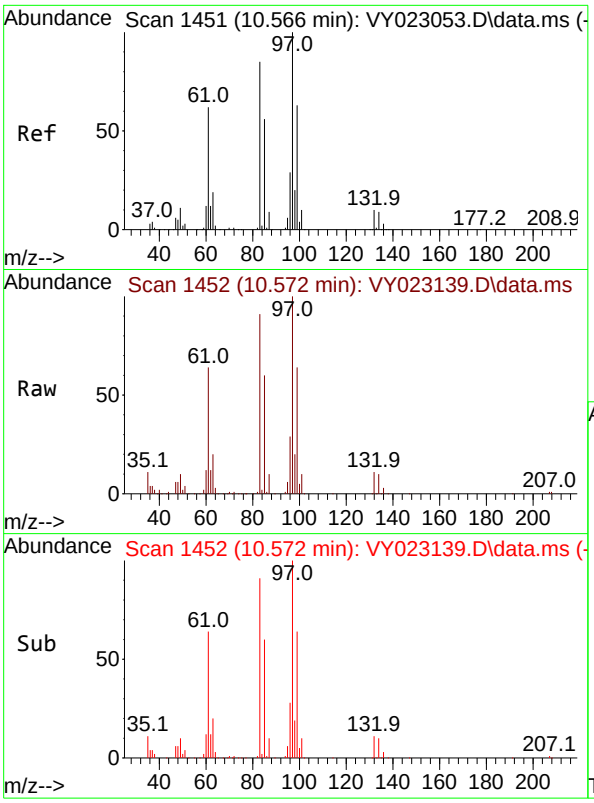




#54
cis-1,3-Dichloropropene
Concen: 20.453 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 75 Resp: 166637

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.5 | 25.4 | 38.0 |
| 39 | 46.0 | 35.6 | 53.4 |



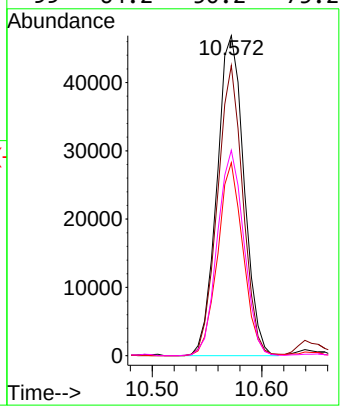


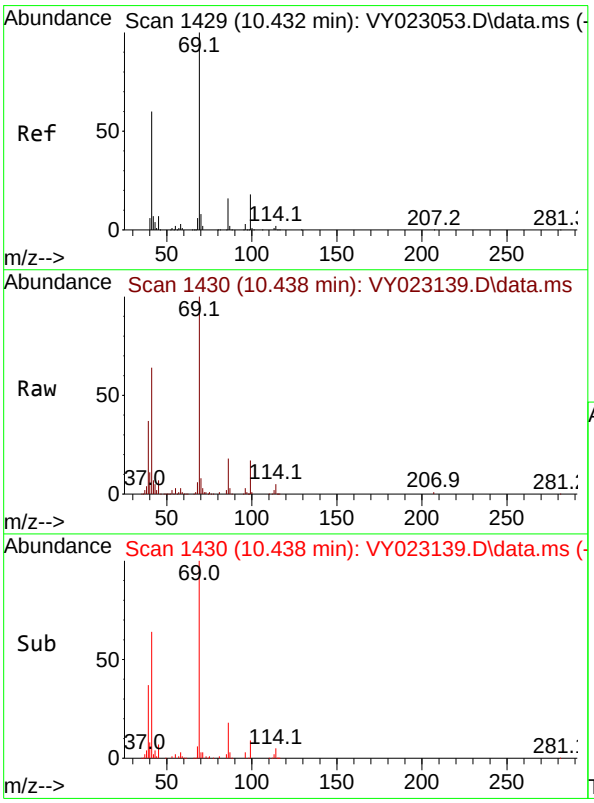

#55
1,1,2-Trichloroethane
Concen: 20.350 ug/l
RT: 10.572 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion: 97 Resp: 80520

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 90.7 | 67.7 | 101.5 |
| 85 | 60.3 | 44.5 | 66.7 |
| 99 | 64.2 | 50.2 | 75.2 |

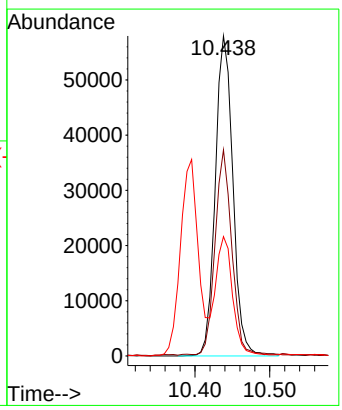


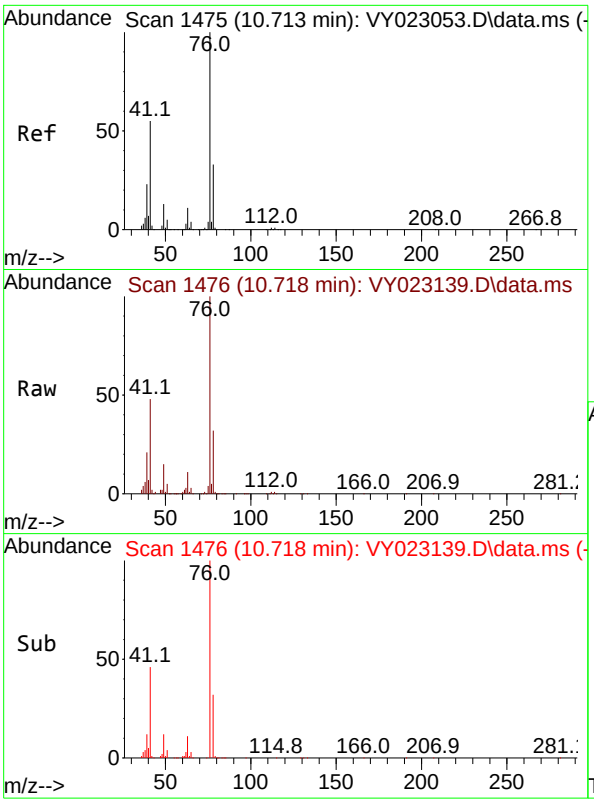




#56
Ethyl methacrylate
Concen: 18.741 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 69 Resp: 94888

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 61.1 | 48.6 | 72.8 |
| 39 | 34.5 | 27.0 | 40.4 |



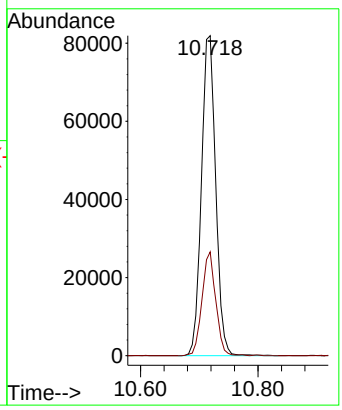


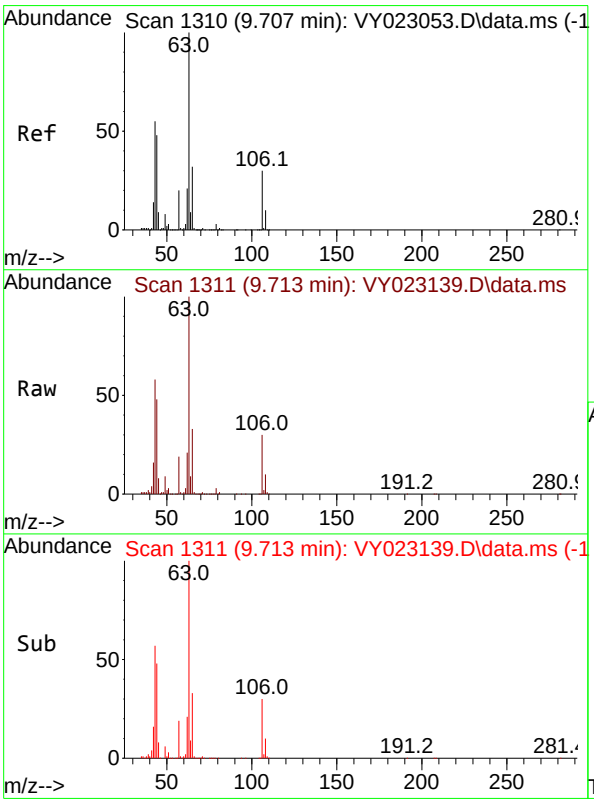

#57
1,3-Dichloropropane
Concen: 20.594 ug/l
RT: 10.718 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion: 76 Resp: 138195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 31.3 | 26.0 | 39.0 |

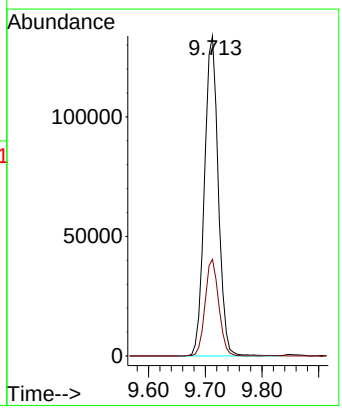


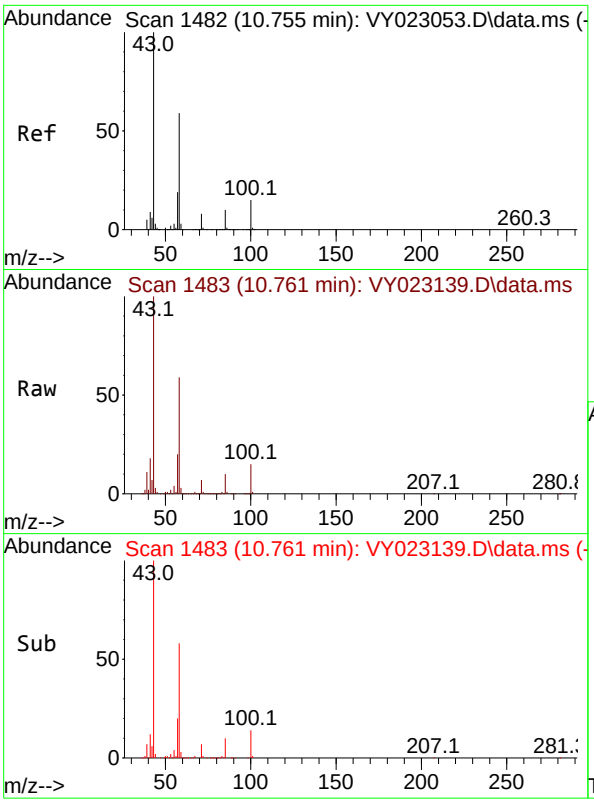




#58
2-Chloroethyl Vinyl ether
Concen: 94.672 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 63 Resp: 226098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 29.8 | 23.2 | 34.8 |



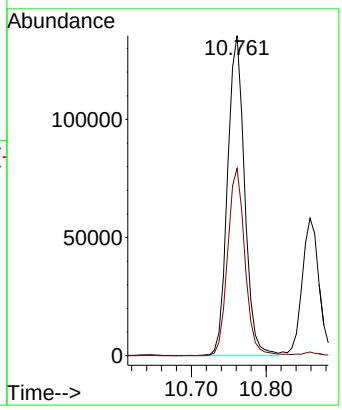


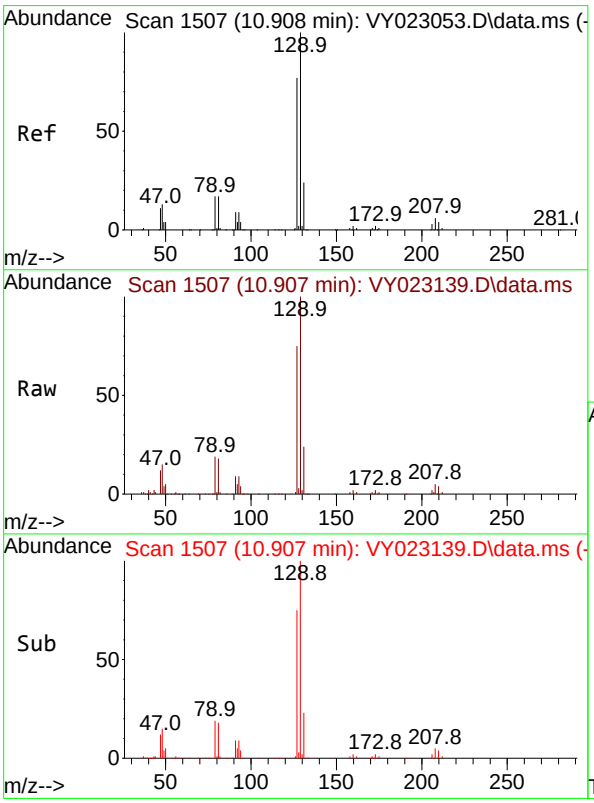

#59
2-Hexanone
Concen: 99.034 ug/l
RT: 10.761 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion: 43 Resp: 214547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 59.3 | 29.5 | 88.5 |

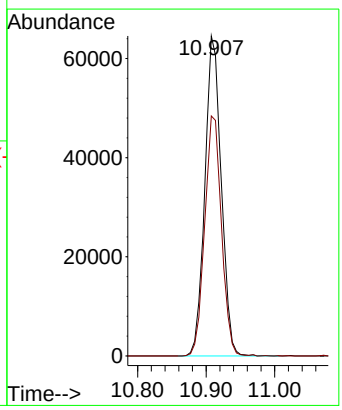


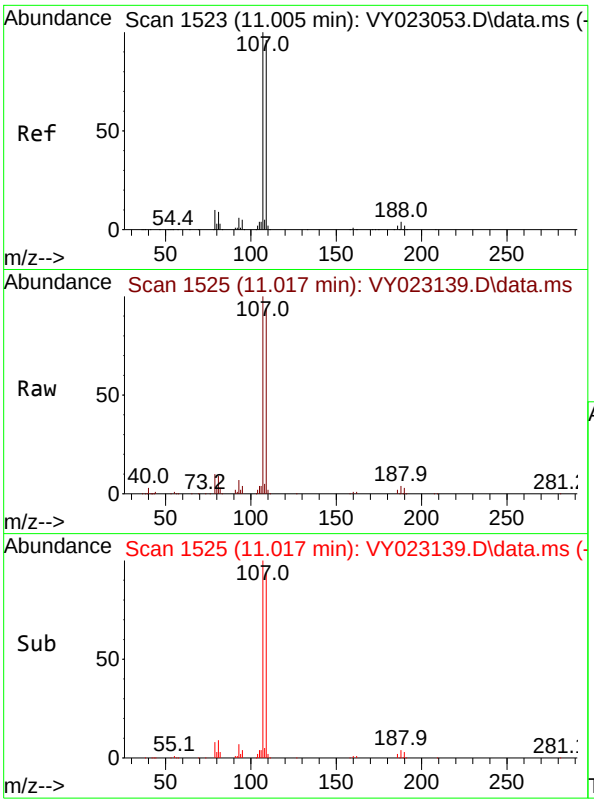




#60
Dibromochloromethane
Concen: 20.554 ug/l
RT: 10.907 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:129 Resp: 107311

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 76.8 | 38.5 | 115.5 |



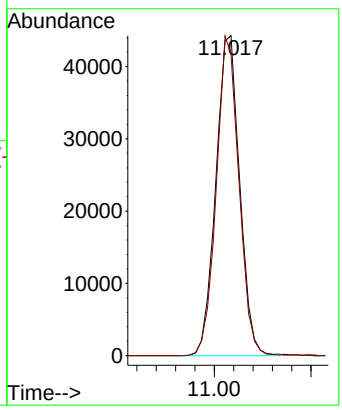


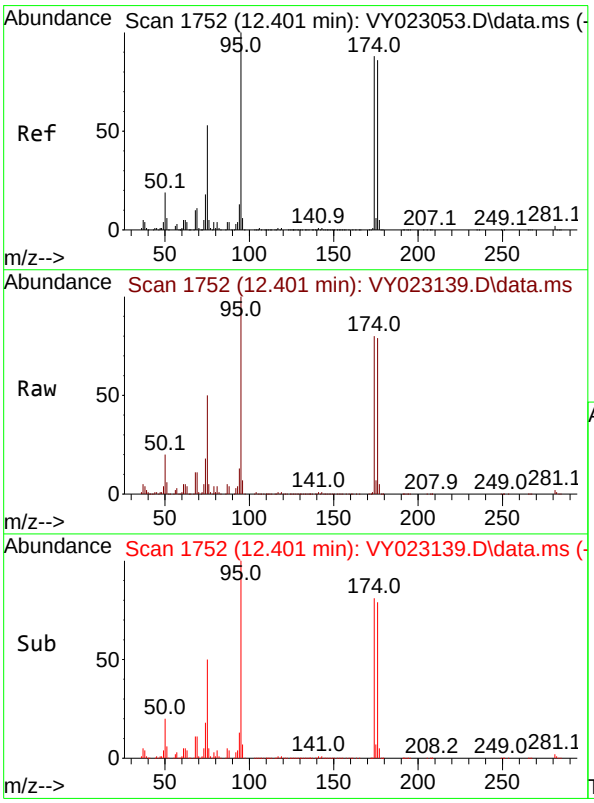

#61
1,2-Dibromoethane
Concen: 20.280 ug/l
RT: 11.017 min Scan# 1
Delta R.T. 0.012 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion:107 Resp: 75418

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.9 | 75.6 | 113.4 |

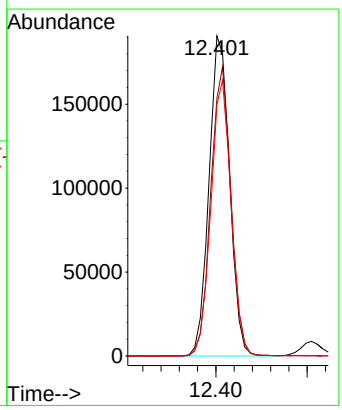


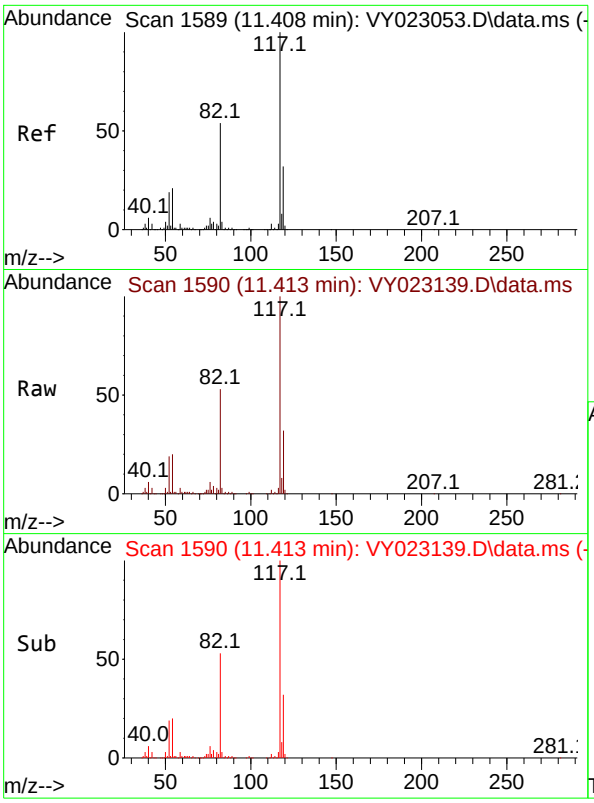




#62
4-Bromofluorobenzene
Concen: 48.544 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 95 Resp: 298119

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 88.9 | 0.0 | 171.6 |
| 176 | 85.0 | 0.0 | 167.6 |



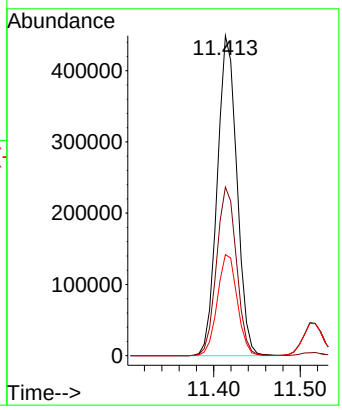


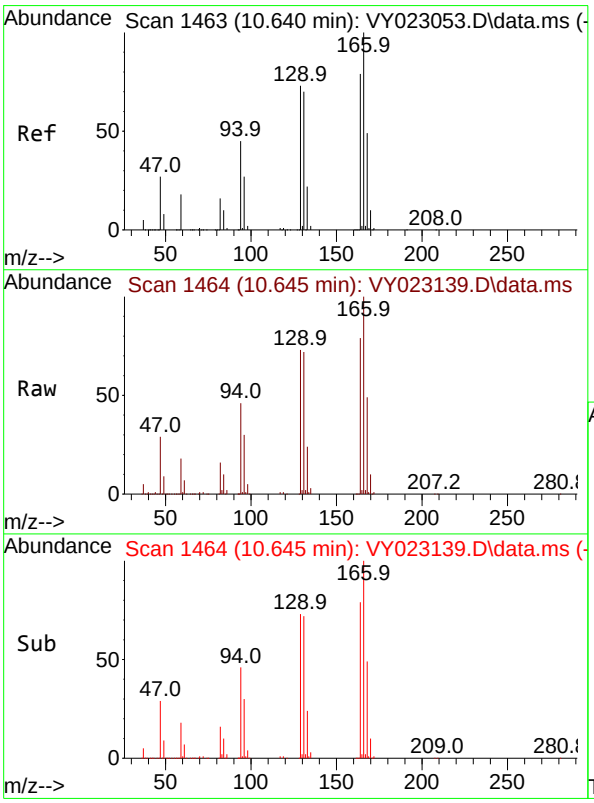

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.413 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion:117 Resp: 707204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 52.7 | 43.4 | 65.0 |
| 119 | 31.6 | 25.6 | 38.4 |

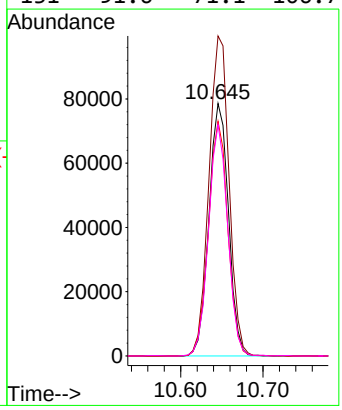


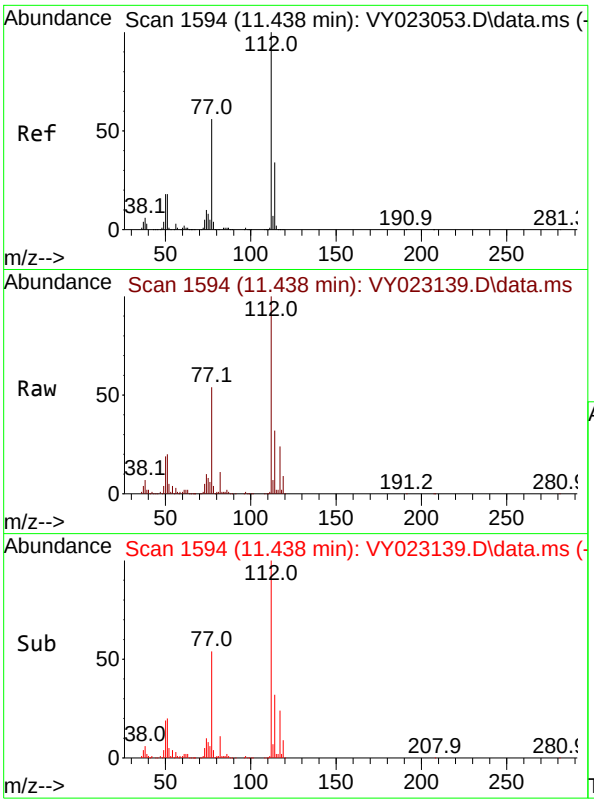




#64
Tetrachloroethene
Concen: 20.532 ug/l
RT: 10.645 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:164 Resp: 129655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 126.7 | 101.1 | 151.7 |
| 129 | 92.9 | 74.0 | 111.0 |
| 131 | 91.6 | 71.1 | 106.7 |



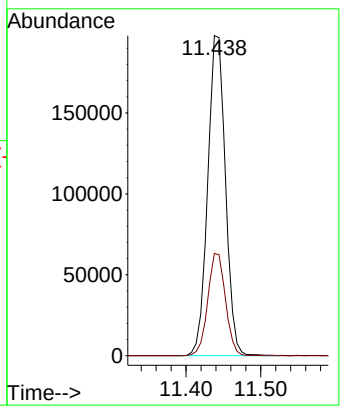


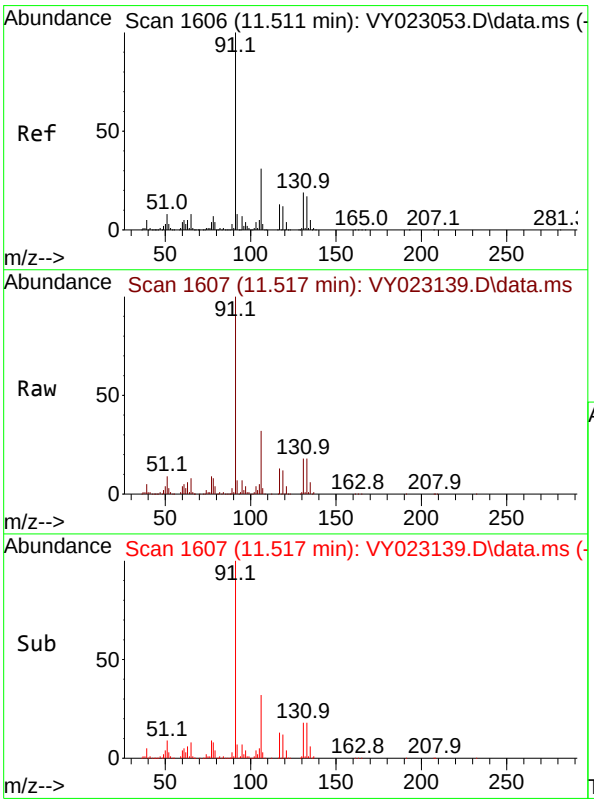

#65
Chlorobenzene
Concen: 21.346 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion:112 Resp: 325629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.9 | 27.0 | 40.4 |

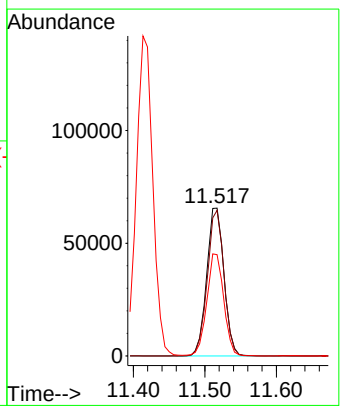


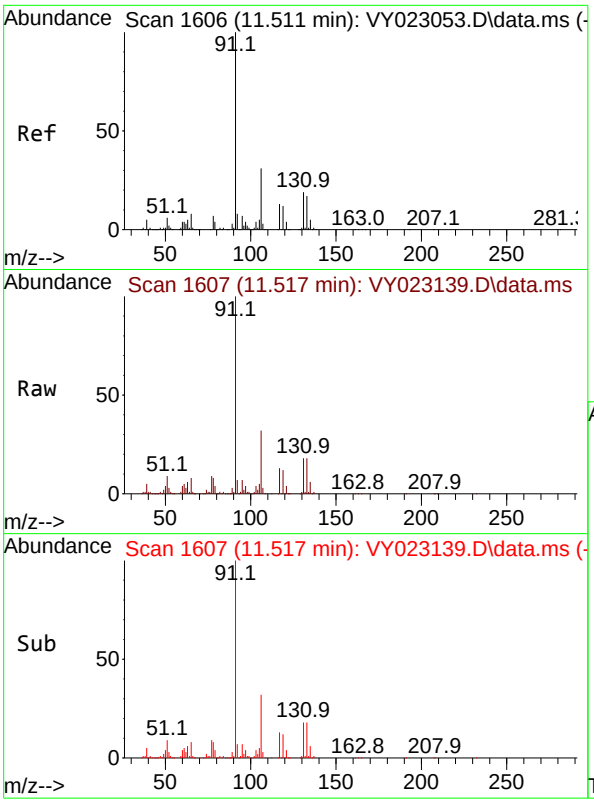




#66
1,1,1,2-Tetrachloroethane
Concen: 21.199 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:131 Resp: 109752

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.3 | 46.9 | 140.6 |
| 119 | 67.9 | 33.2 | 99.6 |



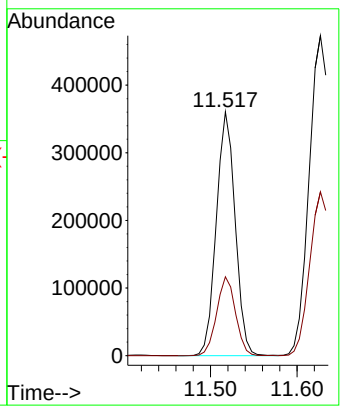


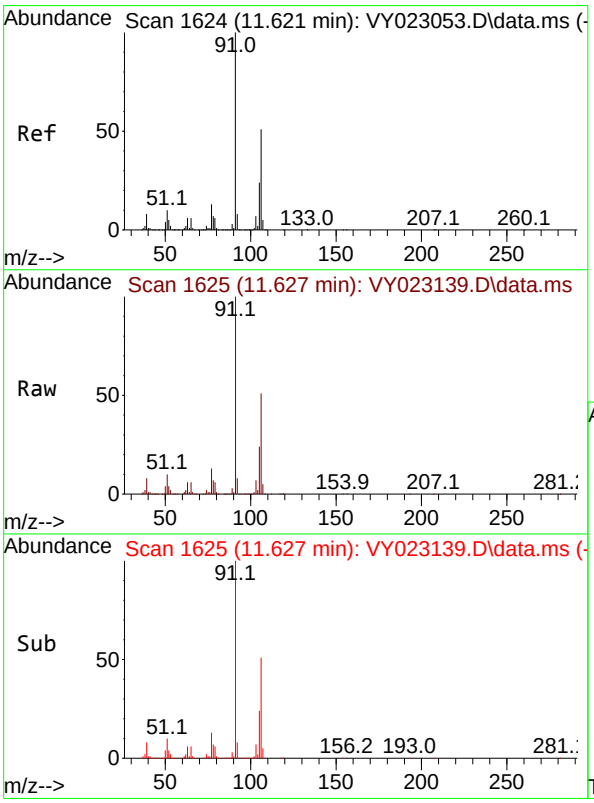

#67
Ethyl Benzene
Concen: 20.767 ug/l
RT: 11.517 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion: 91 Resp: 545176

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 32.4 | 25.0 | 37.4 |

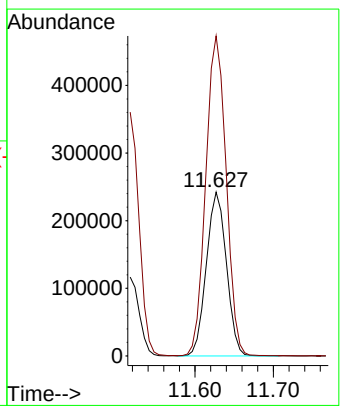


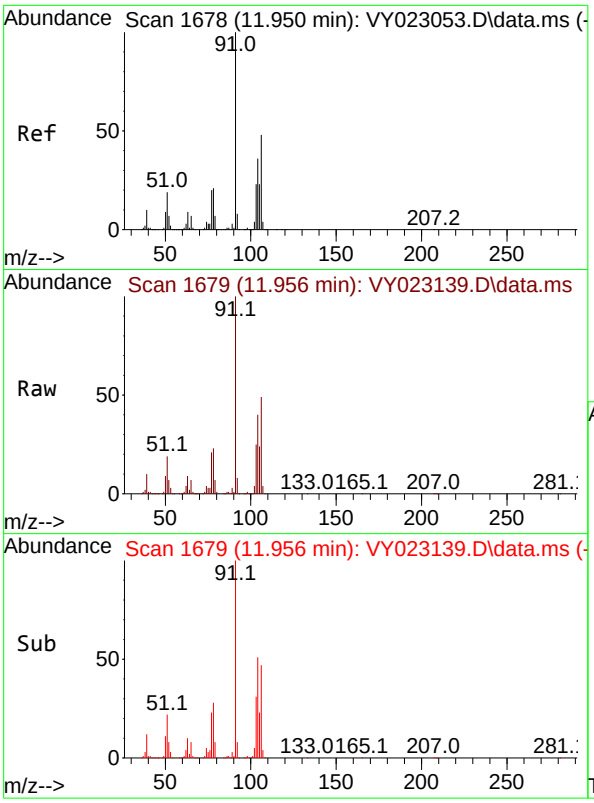




#68
m/p-Xylenes
Concen: 41.951 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:106 Resp: 430120

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 198.8 | 158.6 | 238.0 |



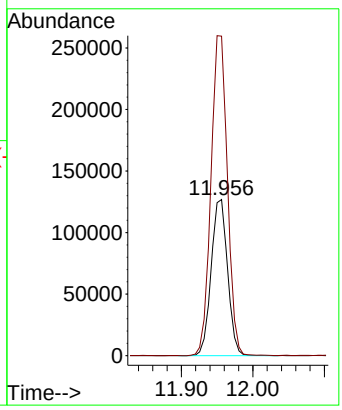


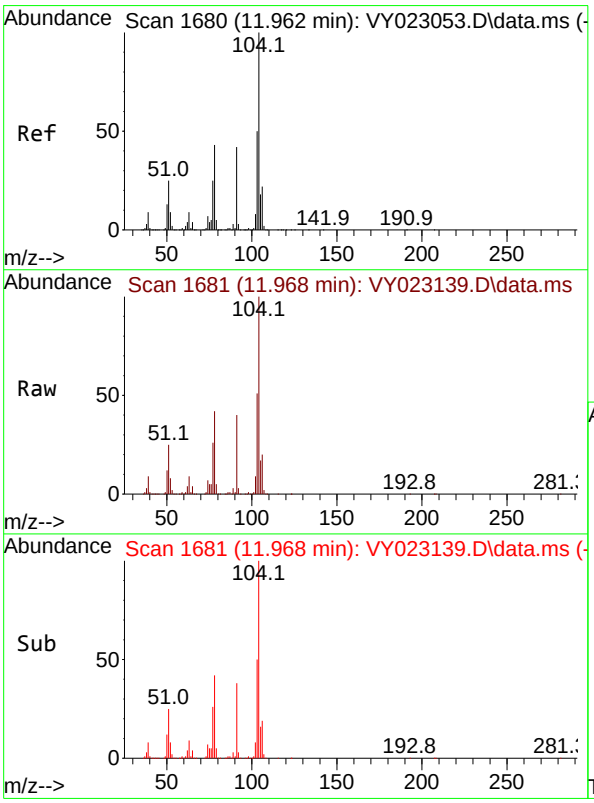

#69
o-Xylene
Concen: 21.020 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion:106 Resp: 201847

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 206.0 | 103.2 | 309.4 |

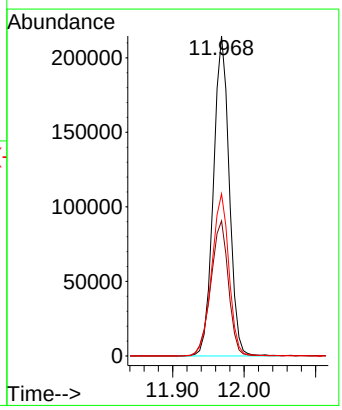


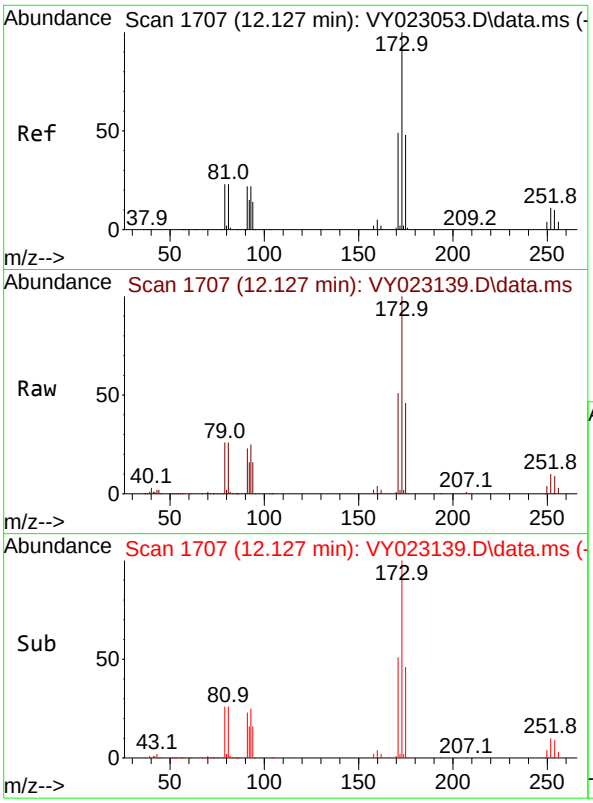




#70
Styrene
Concen: 21.028 ug/l
RT: 11.968 min Scan# 1681
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:104 Resp: 330216

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 46.9 | 38.5 | 57.7 |
| 103 | 55.0 | 43.7 | 65.5 |



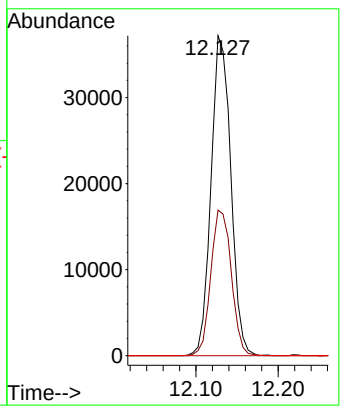


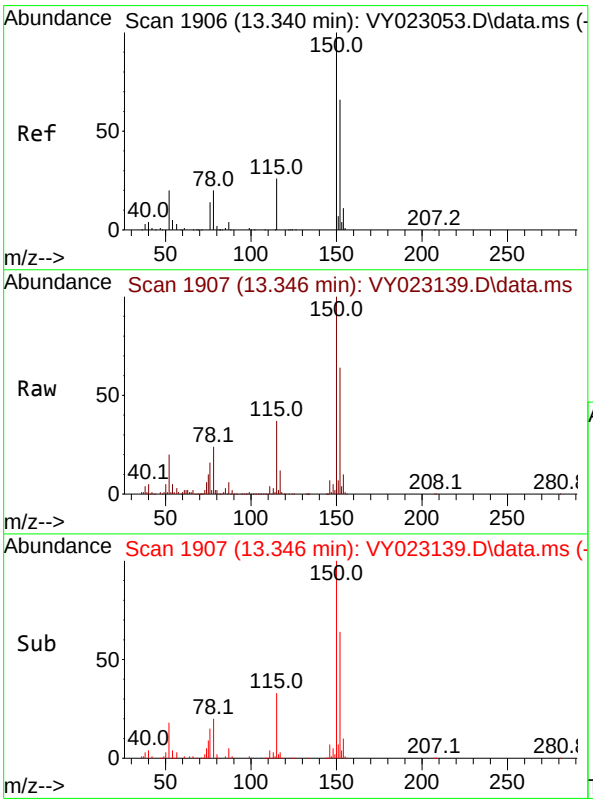

#71
Bromoform
Concen: 20.525 ug/l
RT: 12.127 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion:173 Resp: 62105

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.2 | 23.9 | 71.7 |
| 254 | 0.0 | 0.1 | 0.1# |

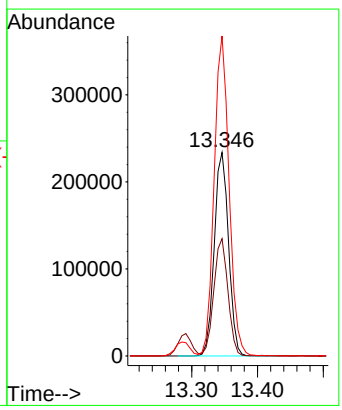


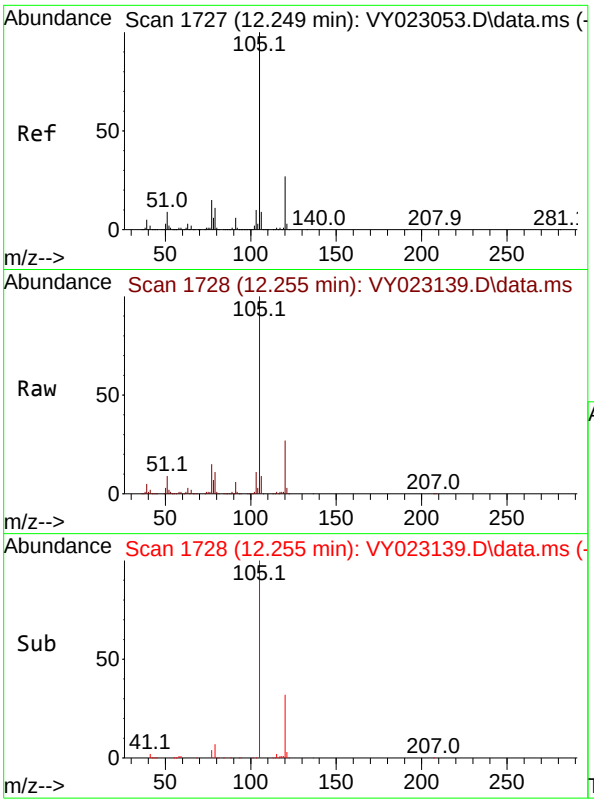




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:152 Resp: 352720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 56.8 | 28.2 | 84.6 |
| 150 | 164.2 | 0.0 | 348.0 |



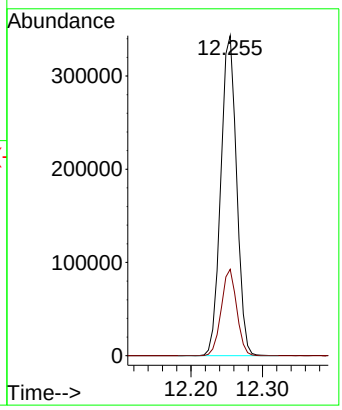


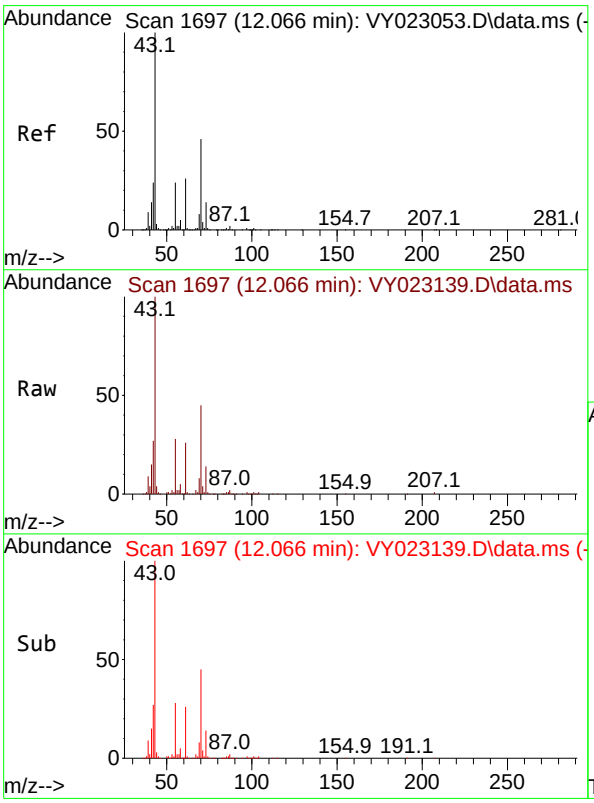

#73
Isopropylbenzene
Concen: 21.185 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion:105 Resp: 527385

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.4 | 13.4 | 40.2 |

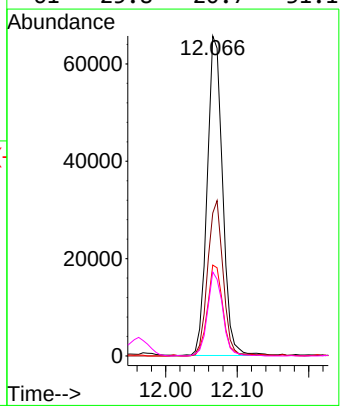


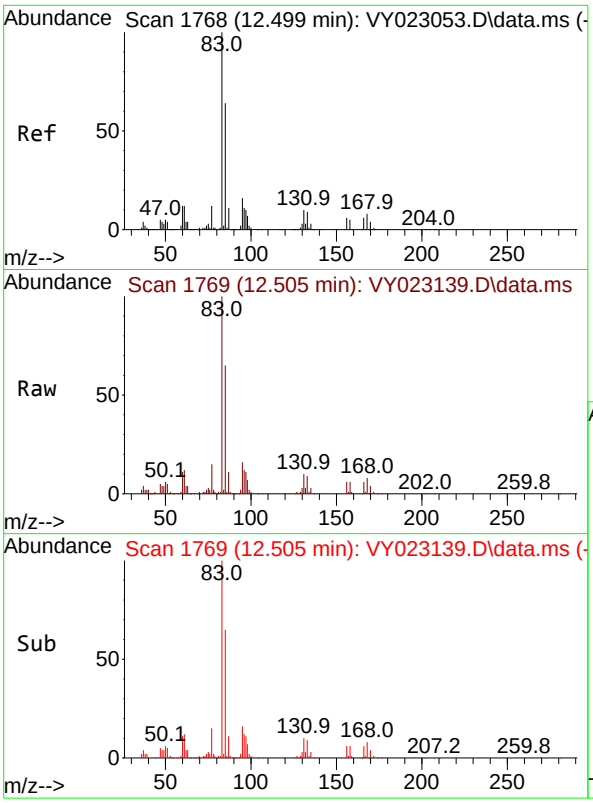




#74
N-amyl acetate
Concen: 18.632 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 43 Resp: 98366

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 48.9 | 37.5 | 56.3 |
| 55 | 28.7 | 20.7 | 31.1 |
| 61 | 25.8 | 20.7 | 31.1 |



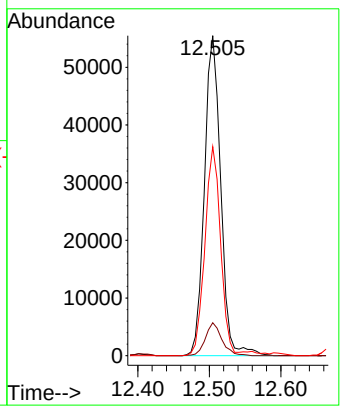


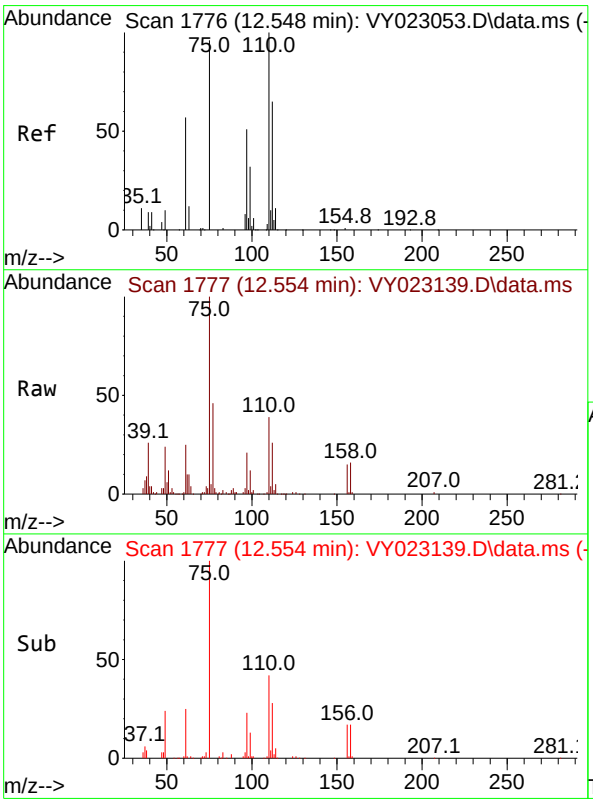

#75
1,1,2,2-Tetrachloroethane
Concen: 20.694 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion: 83 Resp: 87962

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.4 | 5.1 | 15.3 |
| 85 | 62.7 | 31.8 | 95.3 |

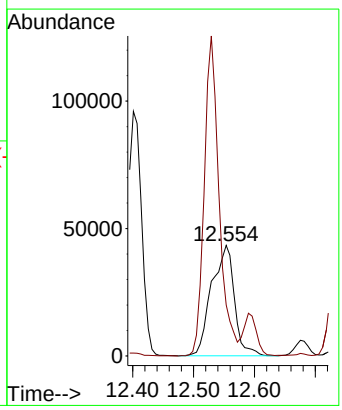


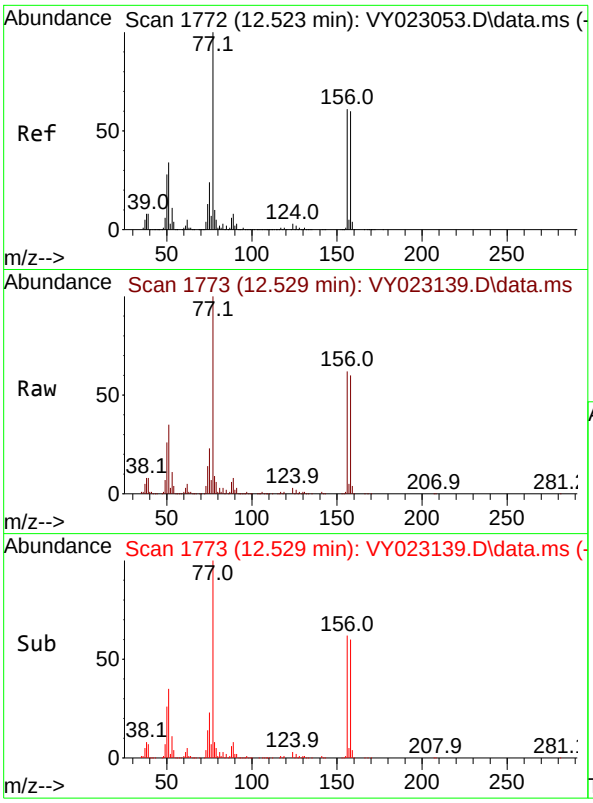




#76
1,2,3-Trichloropropane
Concen: 33.119 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 75 Resp: 112742

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |



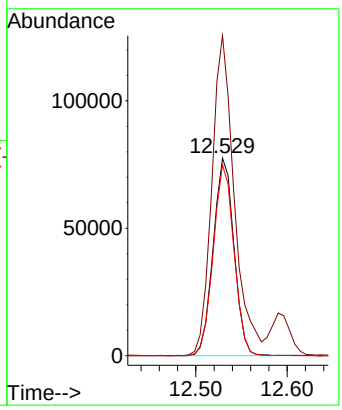


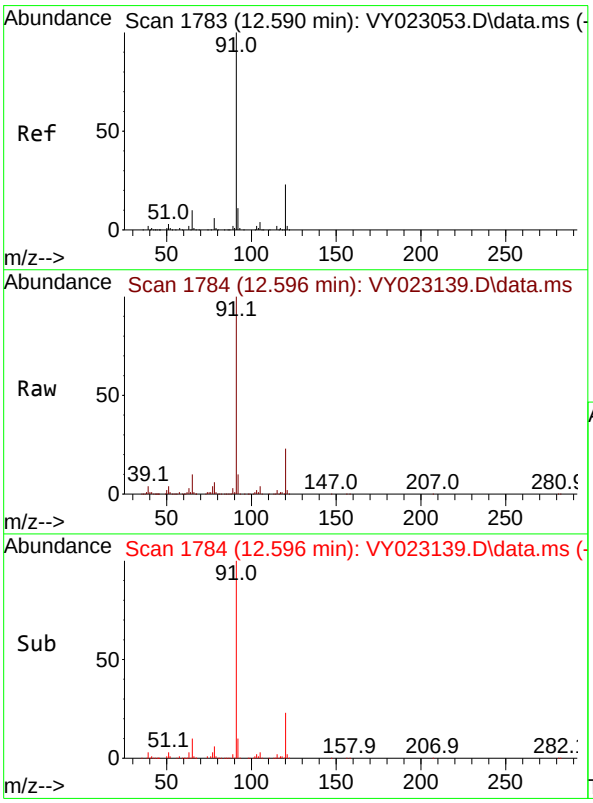

#77
Bromobenzene
Concen: 20.592 ug/l
RT: 12.529 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion:156 Resp: 122298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 174.9 | 88.1 | 264.4 |
| 158 | 96.4 | 48.0 | 144.0 |

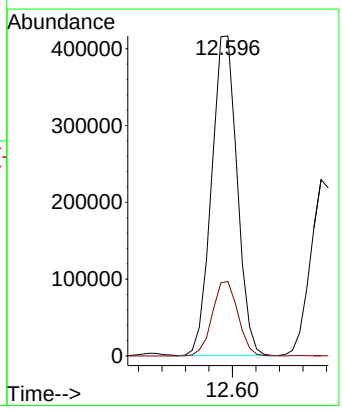


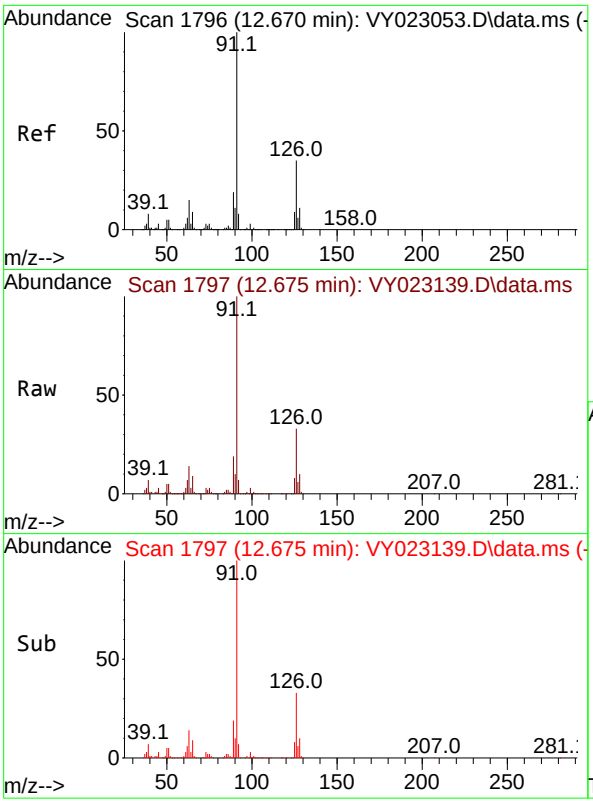




#78
n-propylbenzene
Concen: 21.255 ug/l
RT: 12.596 min Scan# 1784
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 91 Resp: 629976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 23.4 | 11.5 | 34.5 |



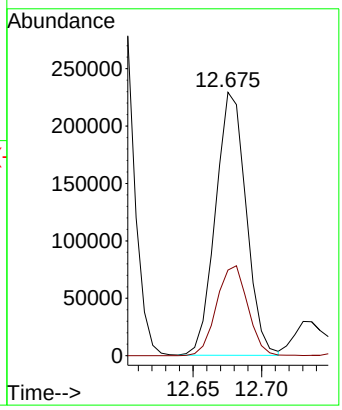


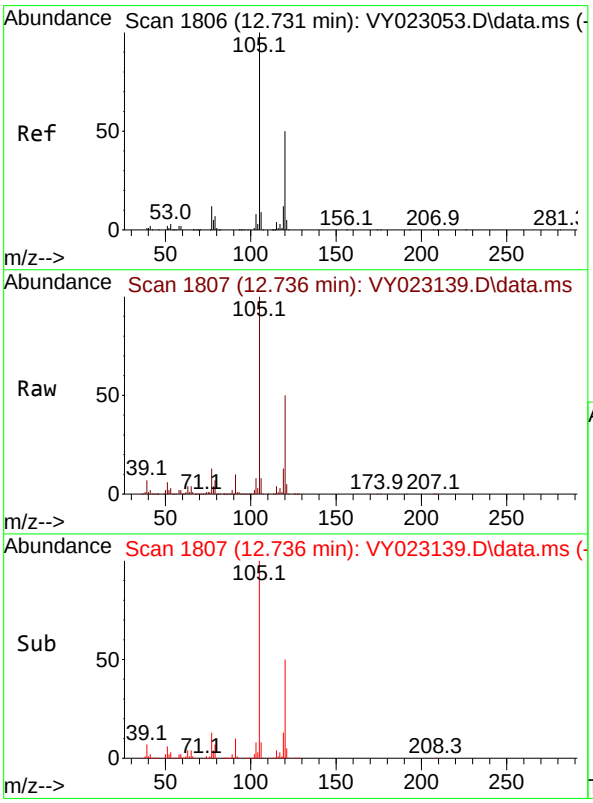

#79
2-Chlorotoluene
Concen: 20.990 ug/l
RT: 12.675 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion: 91 Resp: 356441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.8 | 17.4 | 52.3 |

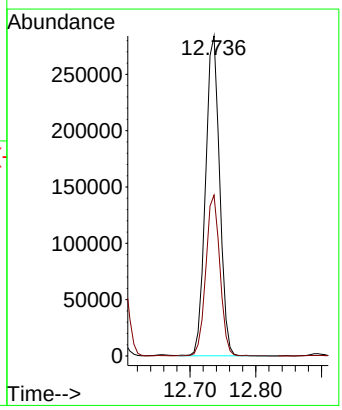


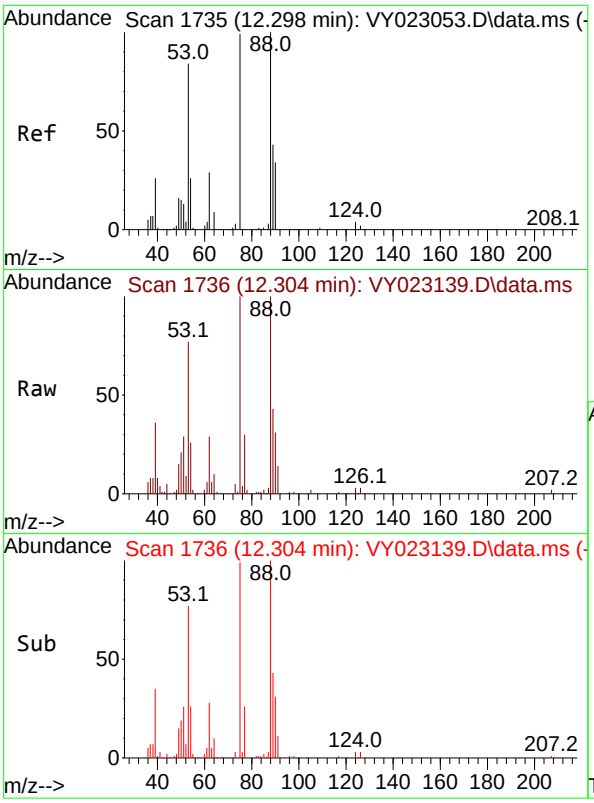




#80
1,3,5-Trimethylbenzene
Concen: 21.022 ug/l
RT: 12.736 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:105 Resp: 422945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 50.1 | 24.8 | 74.4 |



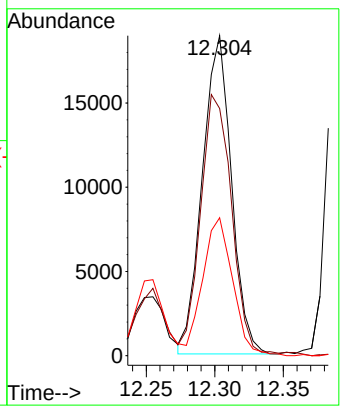


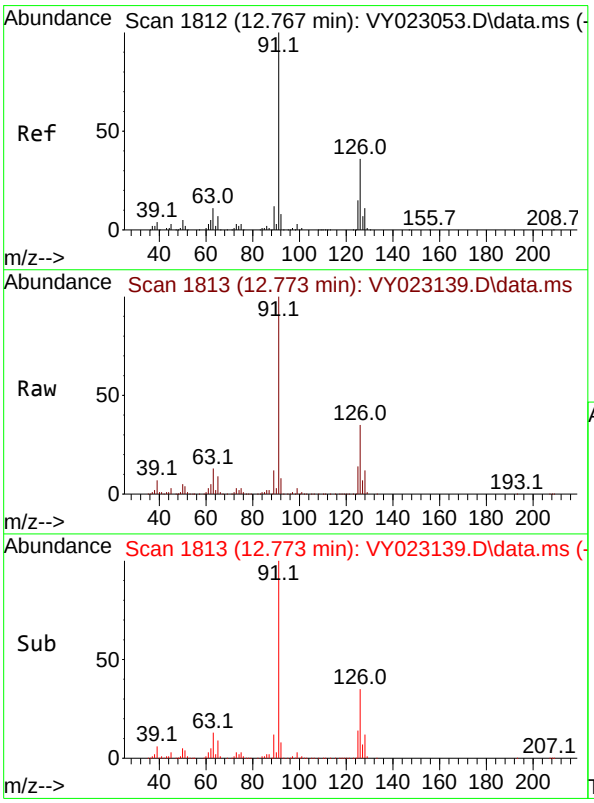

#81
trans-1,4-Dichloro-2-butene
Concen: 19.838 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion: 75 Resp: 27897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 88.5 | 70.8 | 106.2 |
| 89 | 44.3 | 38.1 | 57.1 |

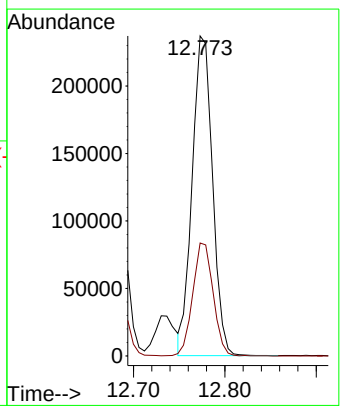


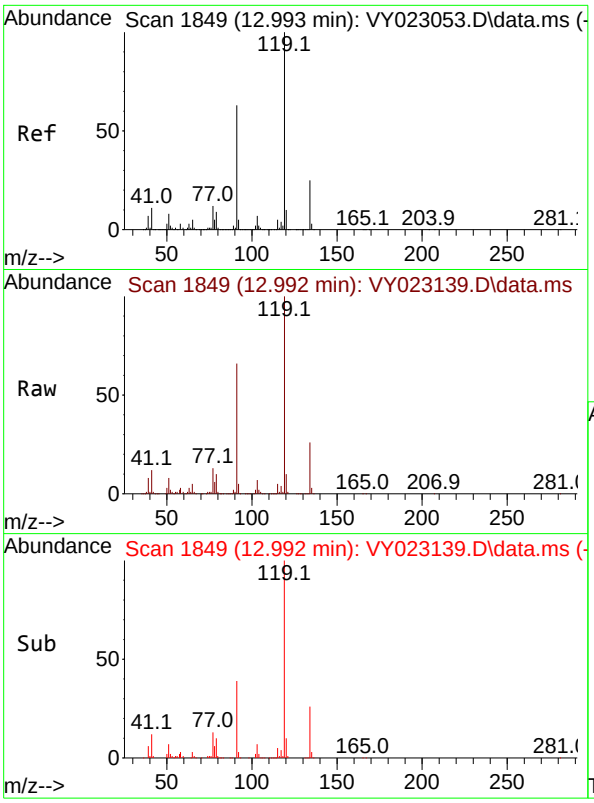




#82
4-Chlorotoluene
Concen: 20.803 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 91 Resp: 366476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.5 | 17.3 | 52.0 |



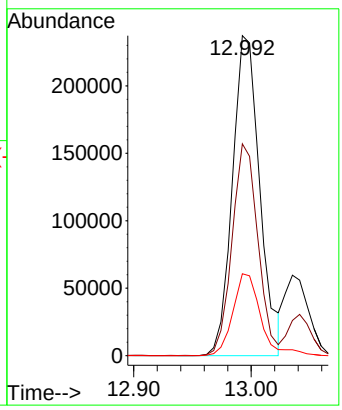


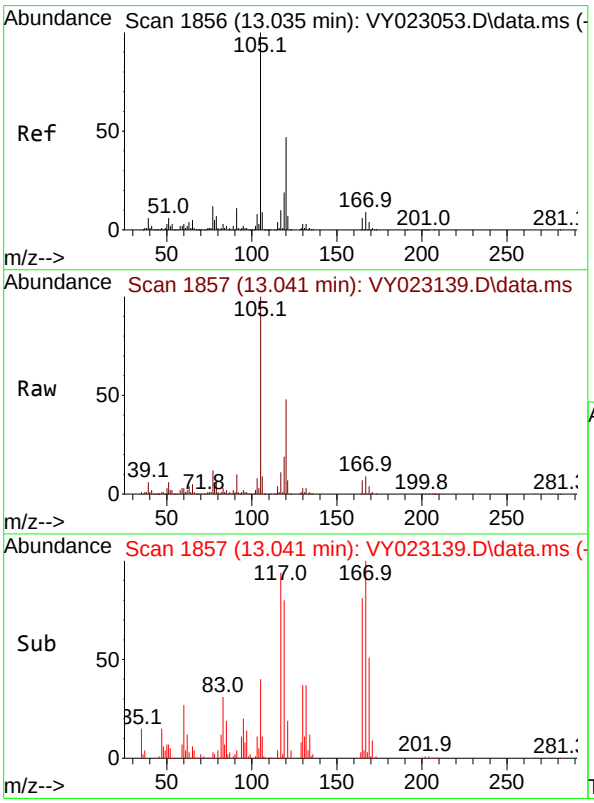

#83
tert-Butylbenzene
Concen: 21.122 ug/l
RT: 12.992 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion:119 Resp: 383813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 62.5 | 31.6 | 94.8 |
| 134 | 26.1 | 12.9 | 38.7 |

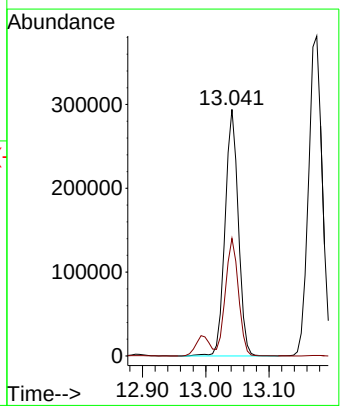


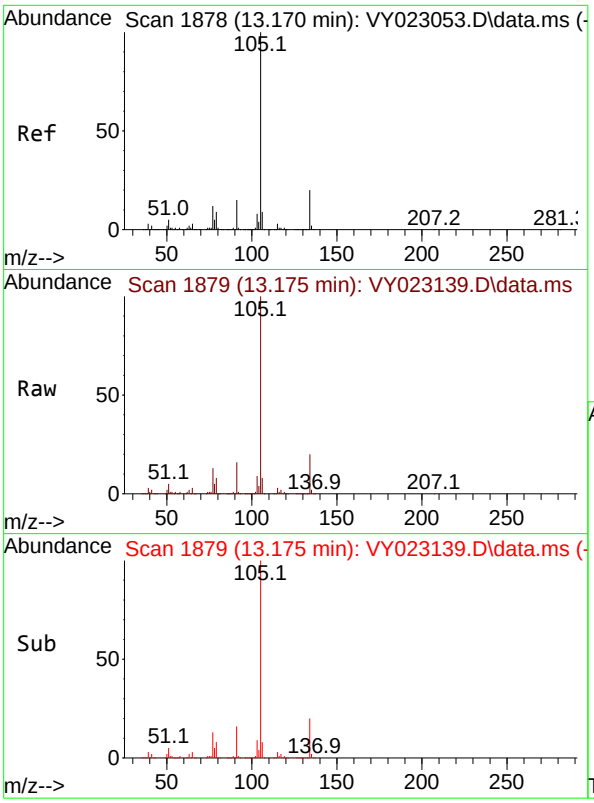




#84
1,2,4-Trimethylbenzene
Concen: 21.298 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:105 Resp: 426567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.5 | 23.0 | 69.0 |



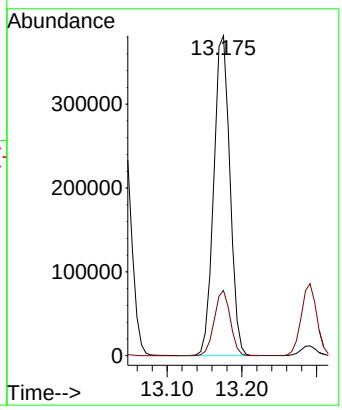


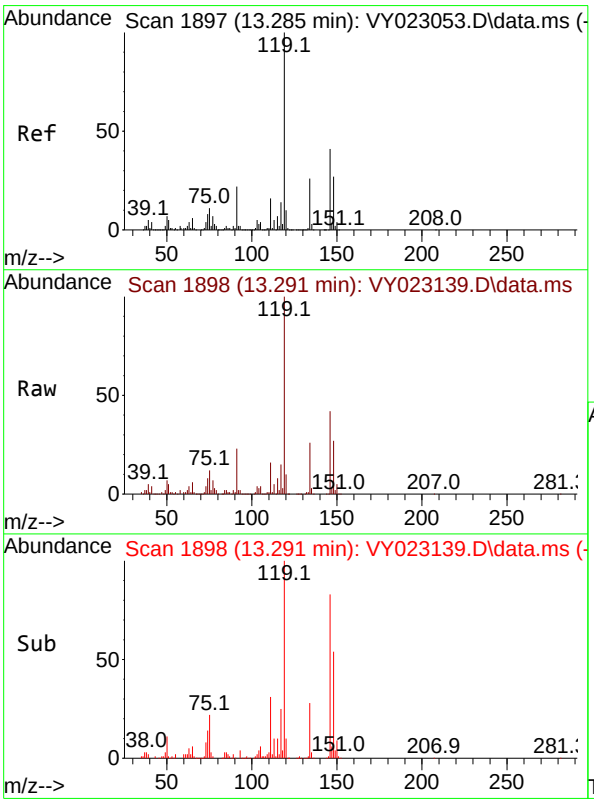

#85
sec-Butylbenzene
Concen: 21.463 ug/l
RT: 13.175 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion:105 Resp: 572911

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.1 | 10.2 | 30.4 |

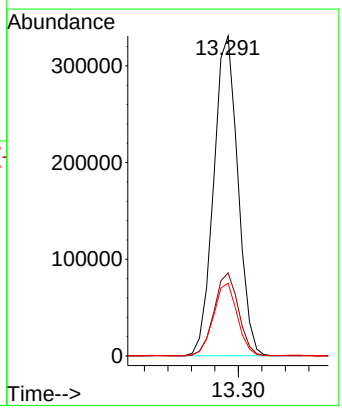


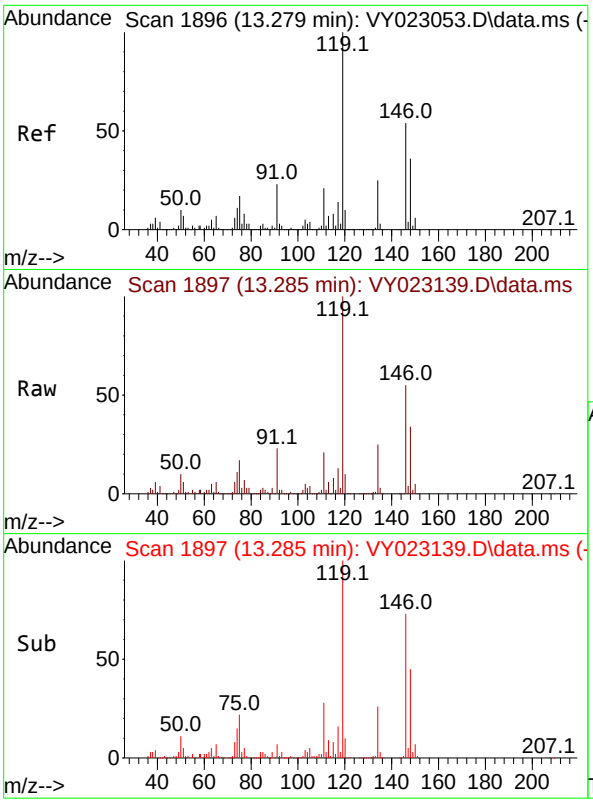




#86
p-Isopropyltoluene
Concen: 21.375 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:119 Resp: 473600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.2 | 13.2 | 39.6 |
| 91 | 22.3 | 11.3 | 33.8 |



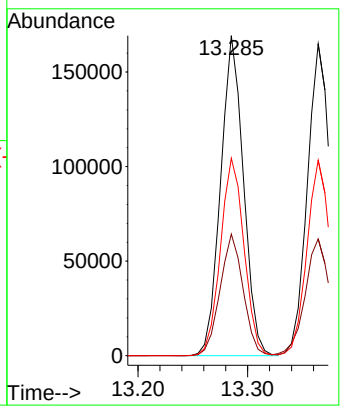


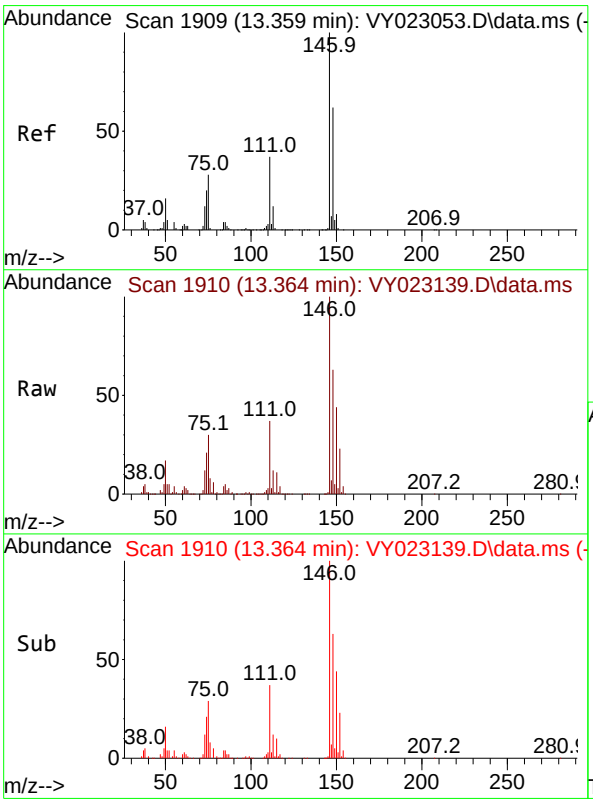

#87
1,3-Dichlorobenzene
Concen: 20.938 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion:146 Resp: 245224

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.4 | 19.6 | 58.7 |
| 148 | 63.6 | 32.5 | 97.5 |

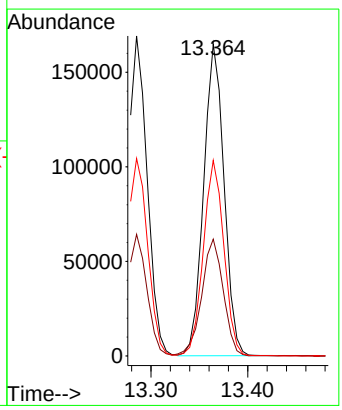


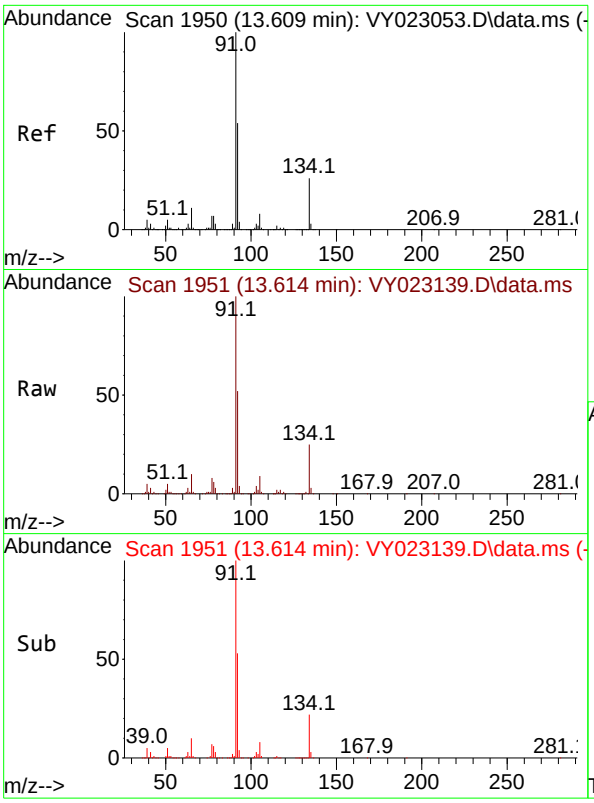




#88
1,4-Dichlorobenzene
Concen: 20.829 ug/l
RT: 13.364 min Scan# 1910
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:146 Resp: 241992

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.9 | 19.1 | 57.1 |
| 148 | 63.2 | 31.6 | 94.7 |



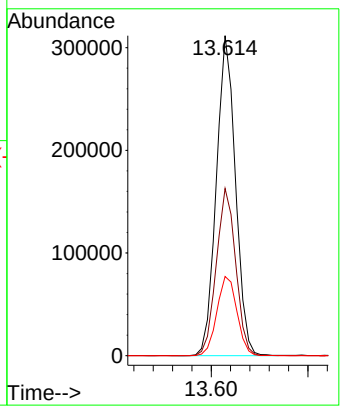


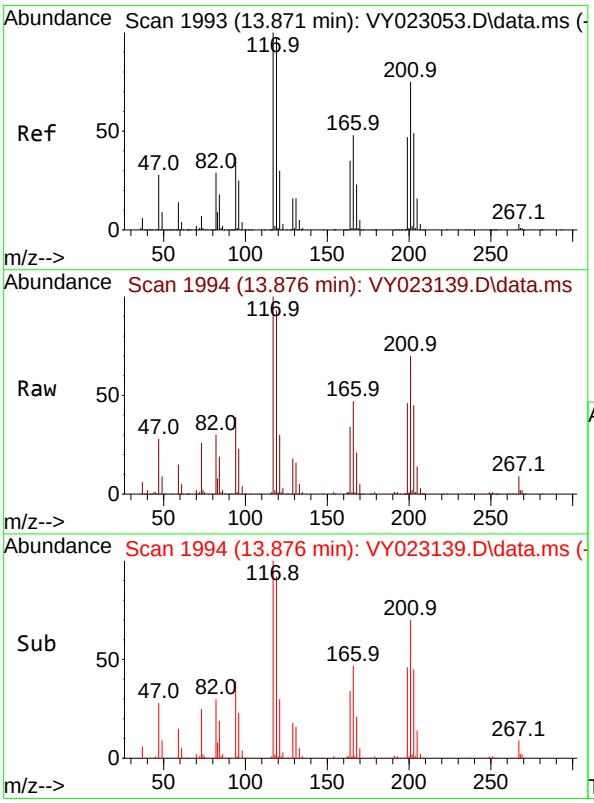

#89
n-Butylbenzene
Concen: 20.989 ug/l
RT: 13.614 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion: 91 Resp: 427124

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.0 | 26.9 | 80.7 |
| 134 | 26.0 | 13.2 | 39.5 |

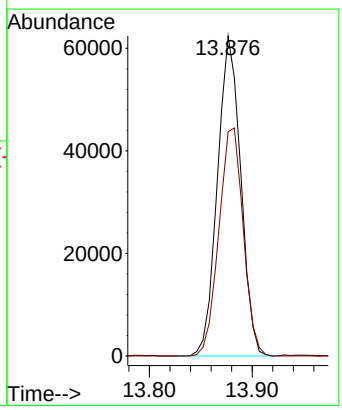


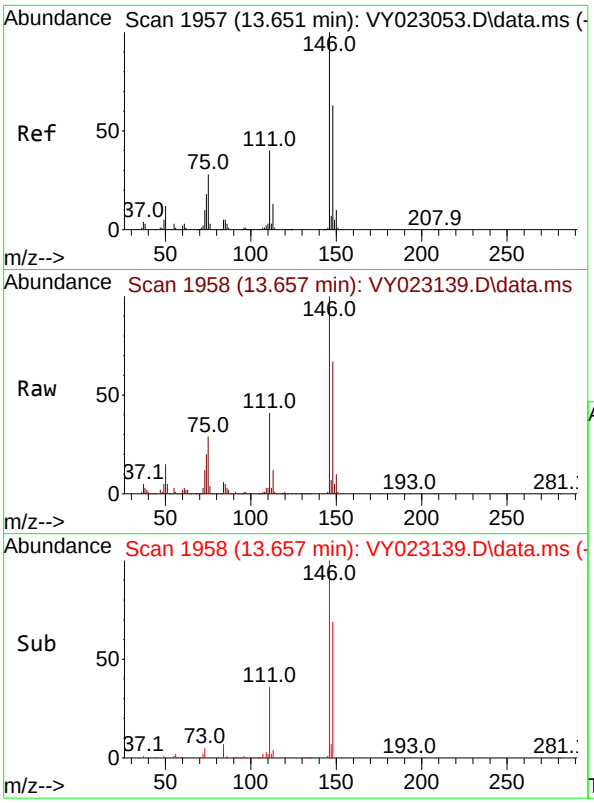




#90
Hexachloroethane
Concen: 21.595 ug/l
RT: 13.876 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:117 Resp: 97949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 74.7 | 38.4 | 115.1 |



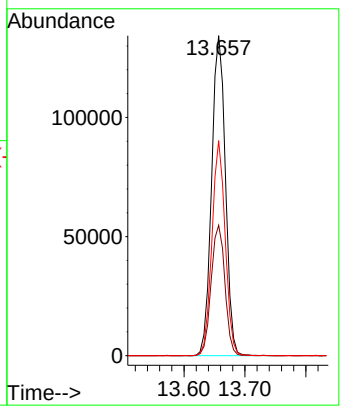


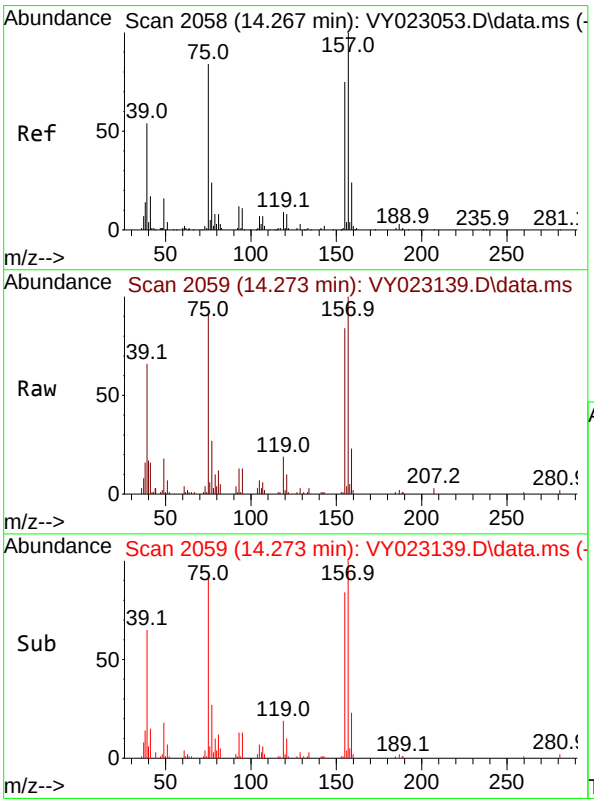

#91
1,2-Dichlorobenzene
Concen: 20.524 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion:146 Resp: 210816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.7 | 20.3 | 60.8 |
| 148 | 64.5 | 32.2 | 96.6 |

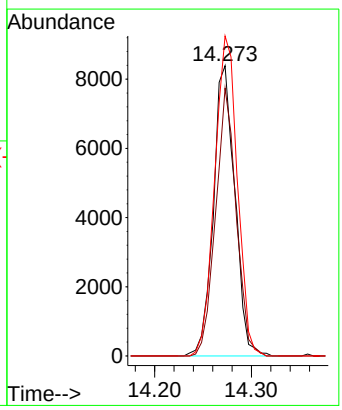


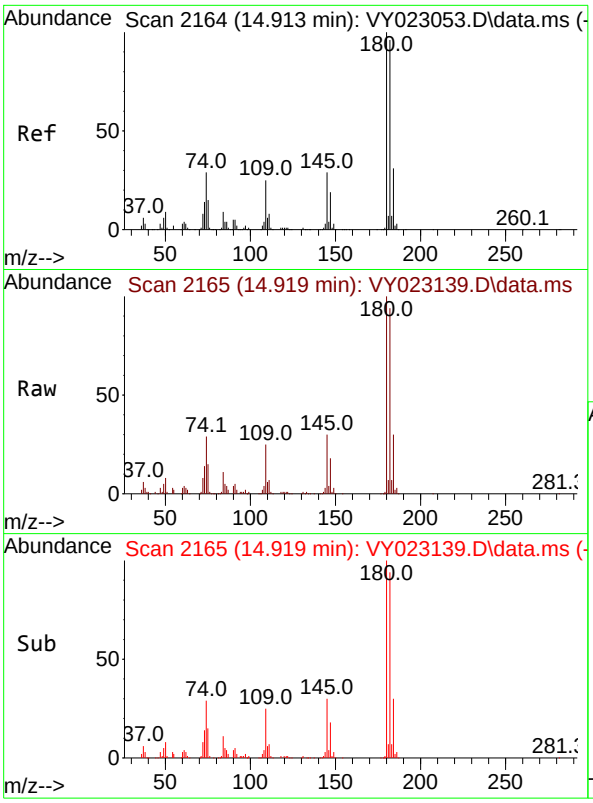




#92
1,2-Dibromo-3-Chloropropane
Concen: 19.499 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion: 75 Resp: 12905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 88.5 | 43.9 | 131.6 |
| 157 | 116.6 | 57.2 | 171.6 |



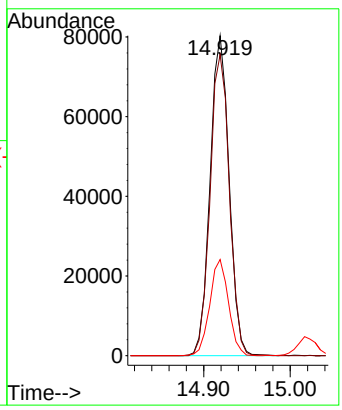


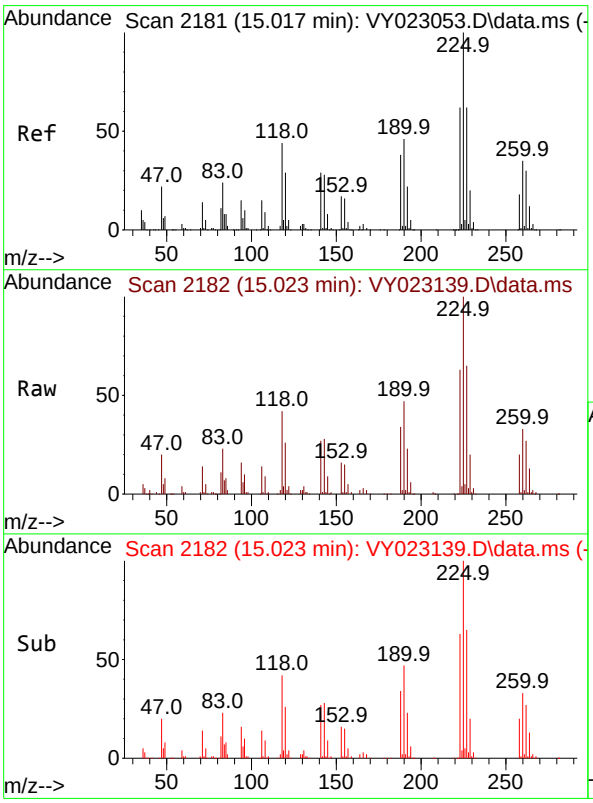

#93
1,2,4-Trichlorobenzene
Concen: 20.157 ug/l
RT: 14.919 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion:180 Resp: 122439

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.5 | 46.8 | 140.4 |
| 145 | 29.7 | 14.4 | 43.4 |

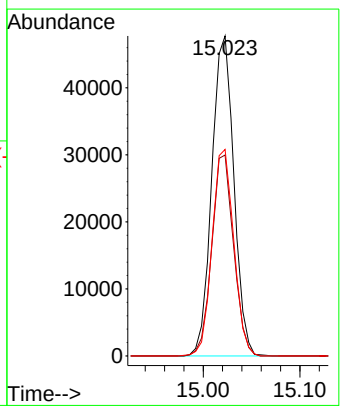


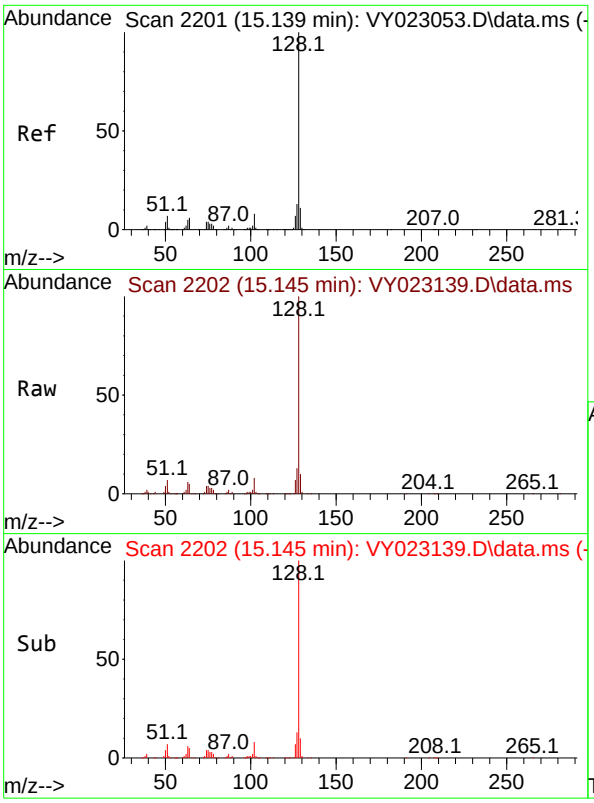




#94
Hexachlorobutadiene
Concen: 21.149 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:225 Resp: 75487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.2 | 31.3 | 93.8 |
| 227 | 63.6 | 31.5 | 94.5 |



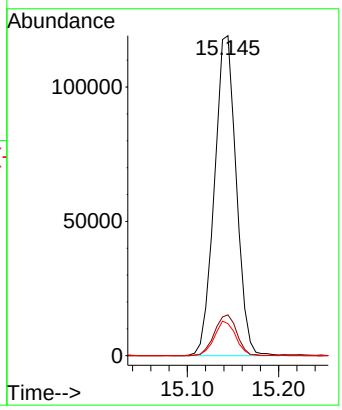


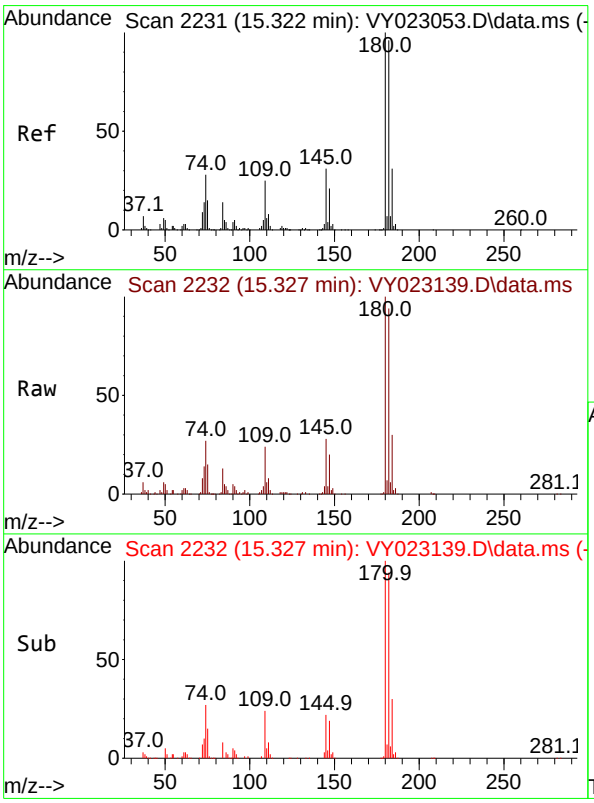

#95
Naphthalene
Concen: 19.124 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY0819SBS01

Tgt Ion:128 Resp: 198080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.1 | 10.4 | 15.6 |
| 129 | 10.6 | 9.0 | 13.4 |

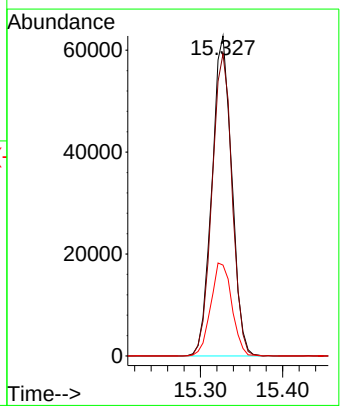



#96
1,2,3-Trichlorobenzene
Concen: 20.115 ug/l
RT: 15.327 min Scan# 2232
Delta R.T. 0.006 min
Lab File: VY023139.D
Acq: 19 Aug 2025 10:19

Tgt Ion:180 Resp: 105286

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.4 | 47.9 | 143.7 |
| 145 | 30.9 | 15.9 | 47.7 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023160.D
Acq On : 19 Aug 2025 19:08
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 3.80g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Quant Time: Aug 20 01:34:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 453917 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 726912 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 647238 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 333557 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 213375 | 49.322 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 98.640% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 217058 | 49.903 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 99.800% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 864097 | 50.853 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 101.700% | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 274917 | 50.308 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 30 - 143 | | Recovery = 100.620% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 145094 | 39.160 | ug/l | 98 |
| 3) Chloromethane | 2.068 | 50 | 276875 | 46.137 | ug/l | 97 |
| 4) Vinyl Chloride | 2.202 | 62 | 354948 | 47.848 | ug/l | 100 |
| 5) Bromomethane | 2.592 | 94 | 278901 | 50.342 | ug/l | 100 |
| 6) Chloroethane | 2.732 | 64 | 250831 | 50.860 | ug/l | 100 |
| 7) Trichlorofluoromethane | 3.049 | 101 | 405455 | 44.950 | ug/l | 99 |
| 8) Diethyl Ether | 3.452 | 74 | 111202 | 46.597 | ug/l | 95 |
| 9) 1,1,2-Trichlorotrifluo... | 3.812 | 101 | 200633 | 45.085 | ug/l | 99 |
| 10) Methyl Iodide | 4.001 | 142 | 263764 | 54.928 | ug/l | 98 |
| 11) Tert butyl alcohol | 4.860 | 59 | 62641 | 211.323 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 206109 | 47.120 | ug/l | 97 |
| 13) Acrolein | 3.647 | 56 | 48005 | 110.581 | ug/l | 97 |
| 14) Allyl chloride | 4.378 | 41 | 288345 | 44.800 | ug/l | 97 |
| 15) Acrylonitrile | 5.049 | 53 | 228651 | 235.673 | ug/l | 98 |
| 16) Acetone | 3.866 | 43 | 175331 | 187.073 | ug/l | 97 |
| 17) Carbon Disulfide | 4.104 | 76 | 657020 | 46.066 | ug/l | 100 |
| 18) Methyl Acetate | 4.385 | 43 | 140261 | 50.290 | ug/l | 97 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 538168 | 47.480 | ug/l | 99 |
| 20) Methylene Chloride | 4.610 | 84 | 244646 | 50.247 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 246365 | 50.119 | ug/l | 99 |
| 22) Diisopropyl ether | 6.018 | 45 | 670200 | 47.919 | ug/l | 99 |
| 23) Vinyl Acetate | 5.957 | 43 | 1726827 | 223.289 | ug/l | 98 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 423462 | 49.522 | ug/l | 99 |
| 25) 2-Butanone | 6.896 | 43 | 268264 | 210.456 | ug/l | 97 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 330025 | 44.729 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 286353 | 50.390 | ug/l | 97 |
| 28) Bromochloromethane | 7.244 | 49 | 168646 | 49.712 | ug/l | 96 |
| 29) Tetrahydrofuran | 7.256 | 42 | 176959 | 223.965 | ug/l | 96 |
| 30) Chloroform | 7.421 | 83 | 447102 | 50.699 | ug/l | 98 |
| 31) Cyclohexane | 7.701 | 56 | 338813 | 42.047 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 386894 | 49.443 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 308640 | 47.746 | ug/l | 99 |
| 37) Ethyl Acetate | 6.982 | 43 | 120682 | 44.444 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 341297 | 48.612 | ug/l | 99 |
| 39) Methylcyclohexane | 9.109 | 83 | 387997 | 45.580 | ug/l | 95 |
| 40) Benzene | 8.079 | 78 | 999546 | 50.170 | ug/l | 99 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023160.D
Acq On : 19 Aug 2025 19:08
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 3.80g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Quant Time: Aug 20 01:34:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.219 | 41 | 65626 | 41.877 | ug/l | | 87 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 253049 | 48.835 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.195 | 43 | 245293 | 44.694 | ug/l | | 97 |
| 44) Trichloroethene | 8.865 | 130 | 266609 | 51.782 | ug/l | | 100 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 228425 | 49.829 | ug/l | | 99 |
| 46) Dibromomethane | 9.231 | 93 | 131481 | 49.971 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.420 | 83 | 343279 | 50.703 | ug/l | | 99 |
| 48) Methyl methacrylate | 9.219 | 41 | 118237 | 45.021 | ug/l | | 95 |
| 49) 1,4-Dioxane | 9.225 | 88 | 29199 | 946.444 | ug/l | | 90 |
| 51) 4-Methyl-2-Pentanone | 9.993 | 43 | 656710 | 231.971 | ug/l | | 98 |
| 52) Toluene | 10.170 | 92 | 647611 | 51.179 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 296104 | 48.297 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 353426 | 48.751 | ug/l | | 97 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 176672 | 50.180 | ug/l | | 98 |
| 56) Ethyl methacrylate | 10.438 | 69 | 217938 | 48.375 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 292293 | 48.952 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 551100 | 259.330 | ug/l | | 98 |
| 59) 2-Hexanone | 10.755 | 43 | 435049 | 225.681 | ug/l | | 100 |
| 60) Dibromochloromethane | 10.908 | 129 | 238623 | 51.365 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 11.011 | 107 | 164095 | 49.588 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.646 | 164 | 323963 | 56.055 | ug/l | | 98 |
| 65) Chlorobenzene | 11.438 | 112 | 704107 | 50.434 | ug/l | | 95 |
| 66) 1,1,1,2-Tetrachloroethane | 11.511 | 131 | 243596 | 51.411 | ug/l | | 100 |
| 67) Ethyl Benzene | 11.517 | 91 | 1222605 | 50.888 | ug/l | | 98 |
| 68) m/p-Xylenes | 11.627 | 106 | 966978 | 103.051 | ug/l | | 98 |
| 69) o-Xylene | 11.950 | 106 | 455236 | 51.799 | ug/l | | 99 |
| 70) Styrene | 11.969 | 104 | 763639 | 53.132 | ug/l | | 98 |
| 71) Bromoform | 12.127 | 173 | 135638 | 48.980 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.249 | 105 | 1161331 | 49.330 | ug/l | | 99 |
| 74) N-amyl acetate | 12.066 | 43 | 217737 | 43.613 | ug/l | | 97 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 172951 | 43.025 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 248637 | 77.236 | ug/l | # | 100 |
| 77) Bromobenzene | 12.529 | 156 | 273466 | 48.690 | ug/l | | 98 |
| 78) n-propylbenzene | 12.590 | 91 | 1387452 | 49.502 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 784149 | 48.829 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.731 | 105 | 954748 | 50.180 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 57362 | 43.134 | ug/l | | 99 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 816232 | 48.995 | ug/l | | 99 |
| 83) tert-Butylbenzene | 12.993 | 119 | 857857 | 49.921 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 956661 | 50.510 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.170 | 105 | 1249164 | 49.485 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.285 | 119 | 1065308 | 50.842 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 549837 | 49.644 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 534086 | 48.611 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.615 | 91 | 957330 | 49.746 | ug/l | | 99 |
| 90) Hexachloroethane | 13.877 | 117 | 214503 | 50.008 | ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 477680 | 49.177 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 28063 | 44.839 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 14.913 | 180 | 261664 | 45.553 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 15.017 | 225 | 153359 | 45.434 | ug/l | | 98 |
| 95) Naphthalene | 15.139 | 128 | 452211 | 46.168 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.328 | 180 | 224276 | 45.311 | ug/l | | 99 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023160.D
Acq On : 19 Aug 2025 19:08
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 3.80g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Quant Time: Aug 20 01:34:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

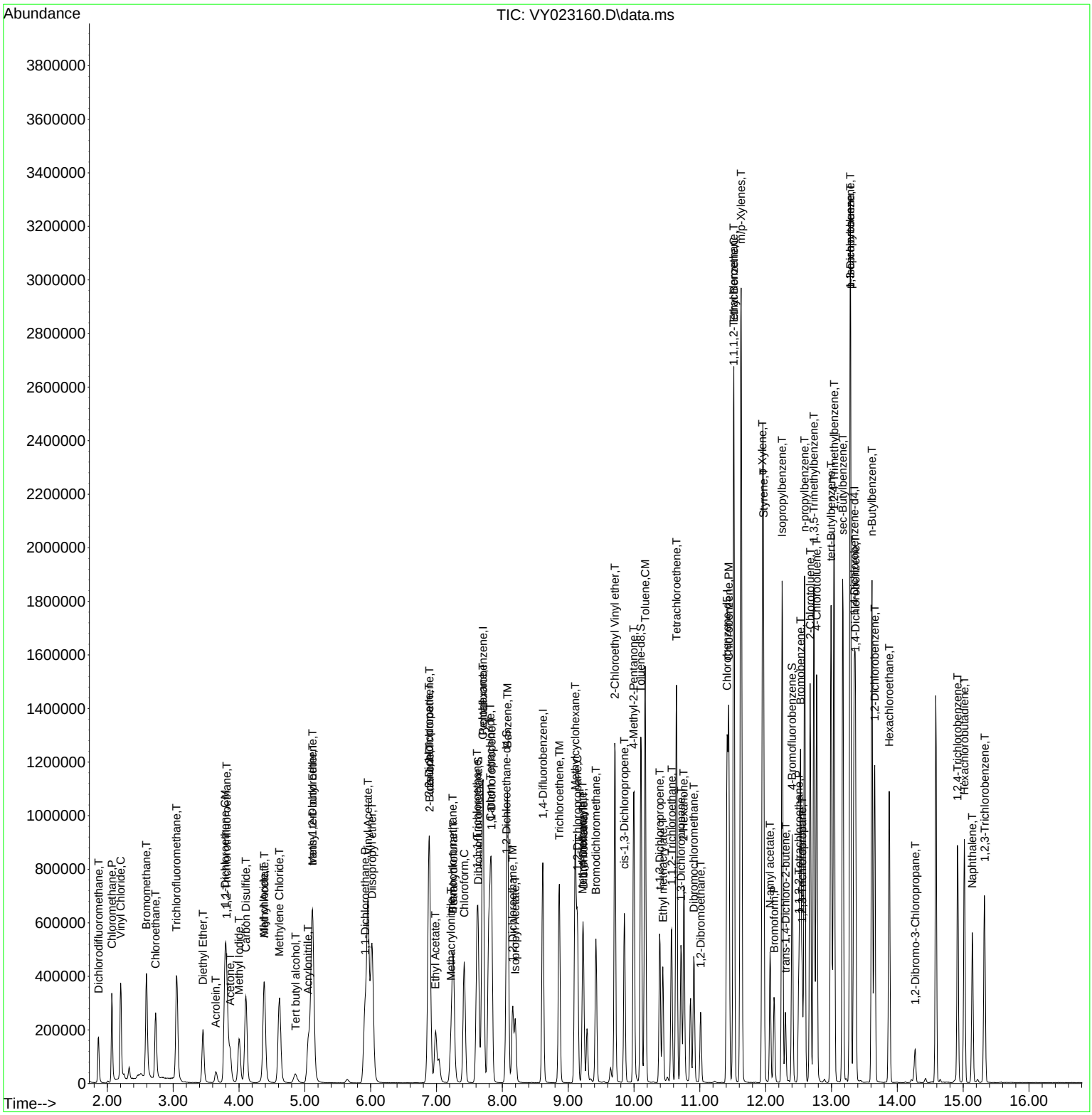
(#) = qualifier out of range (m) = manual integration (+) = signals summed

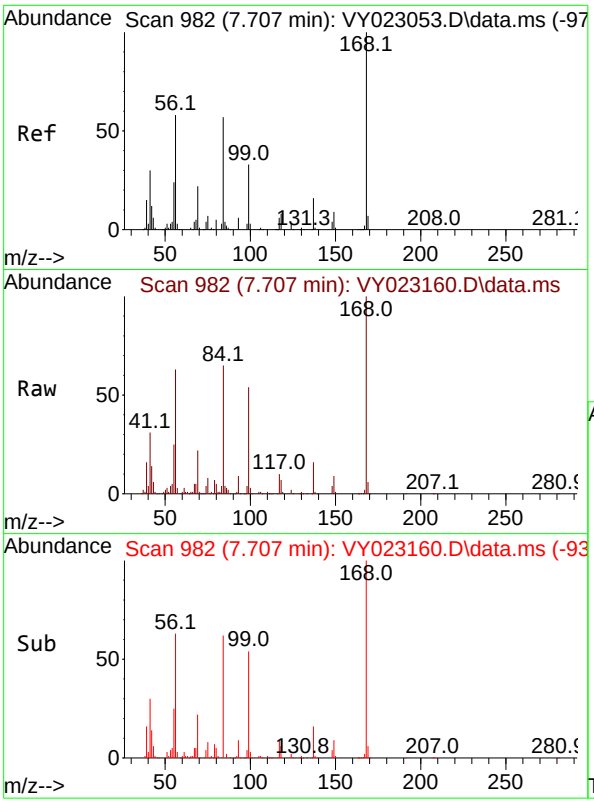
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
Data File : VY023160.D
Acq On : 19 Aug 2025 19:08
Operator : SY/MD
Sample : VSTDCCC050EC
Misc : 3.80g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Quant Time: Aug 20 01:34:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration



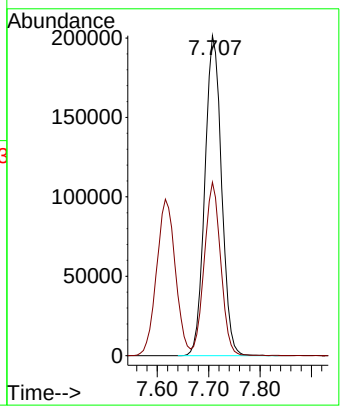


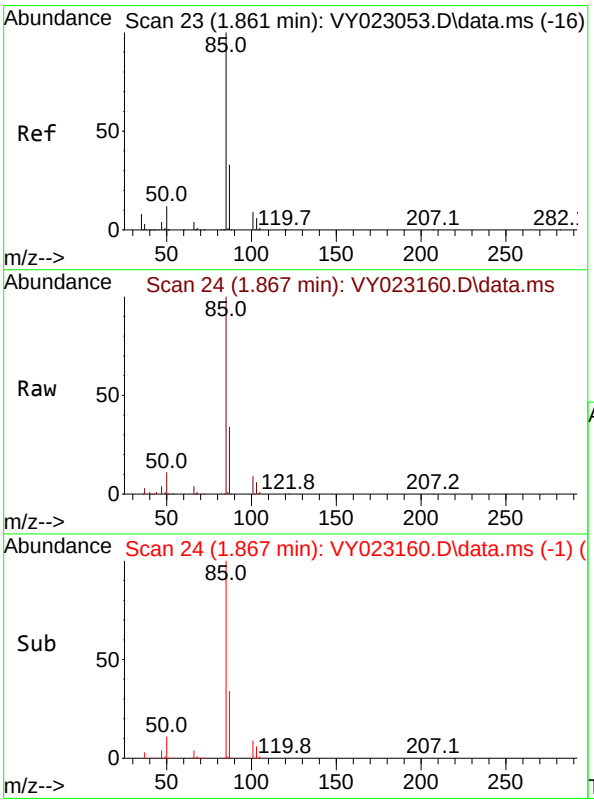

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:168 Resp: 453917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 54.1 | 42.8 | 64.2 |

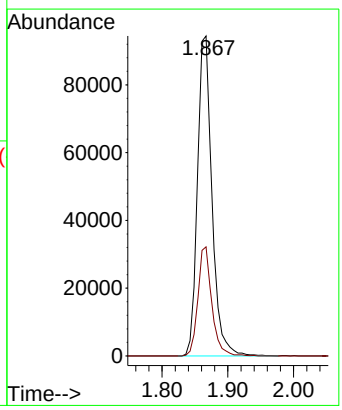


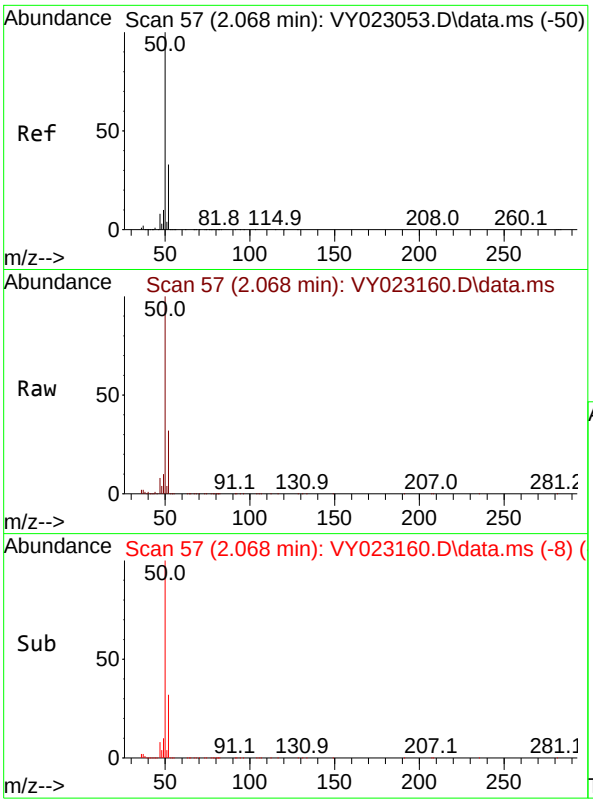




#2
Dichlorodifluoromethane
Concen: 39.160 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 85 Resp: 145094

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 34.1 | 16.6 | 49.8 |



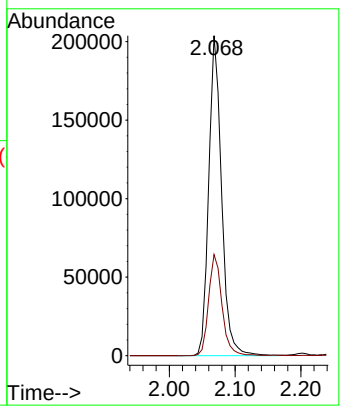


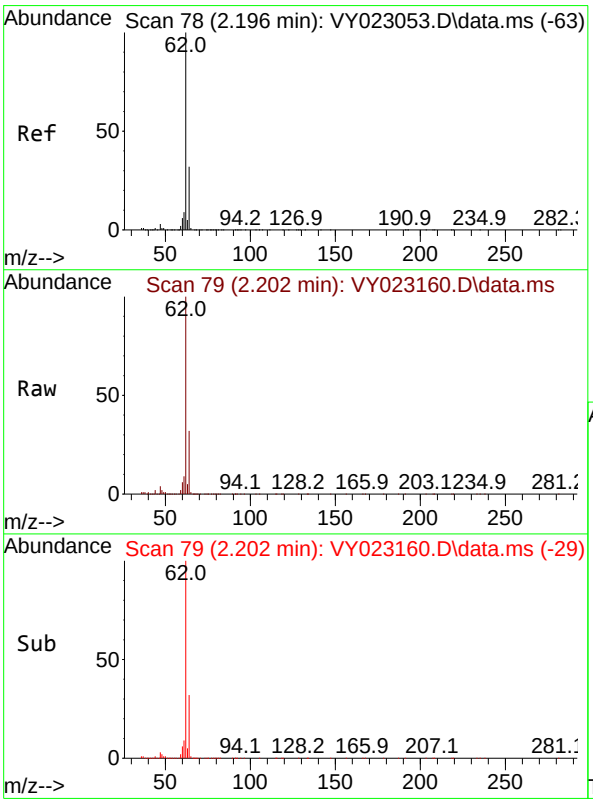

#3
Chloromethane
Concen: 46.137 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 50 Resp: 276875

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.6 | 26.7 | 40.1 |

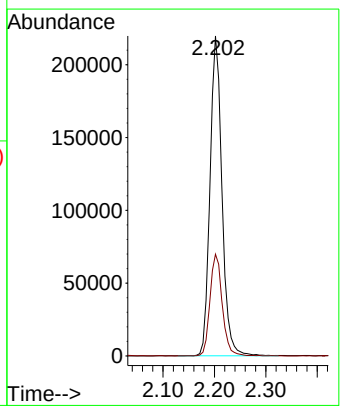


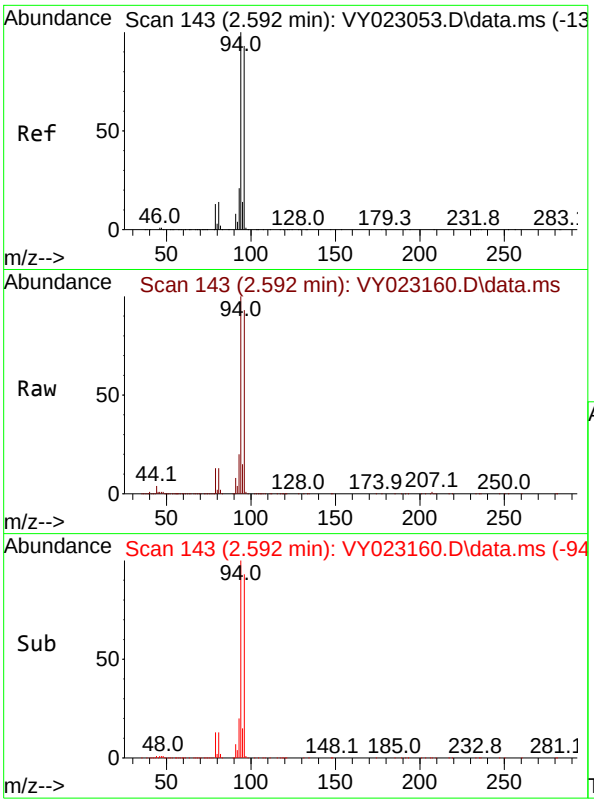




#4
Vinyl Chloride
Concen: 47.848 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 62 Resp: 354948

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.8 | 25.4 | 38.0 |



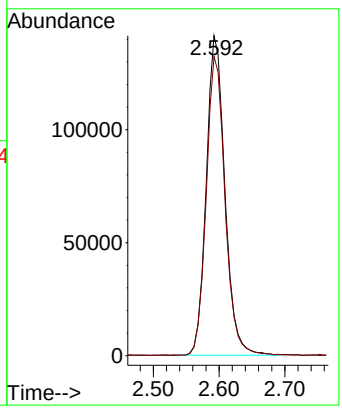


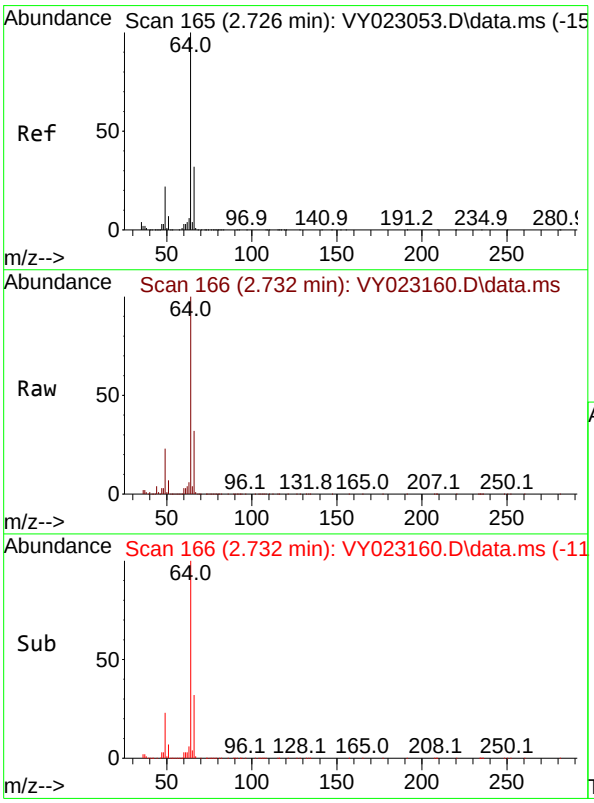

#5
Bromomethane
Concen: 50.342 ug/l
RT: 2.592 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 94 Resp: 278901

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 93.5 | 74.6 | 112.0 |

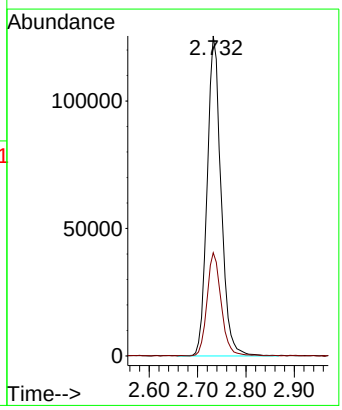


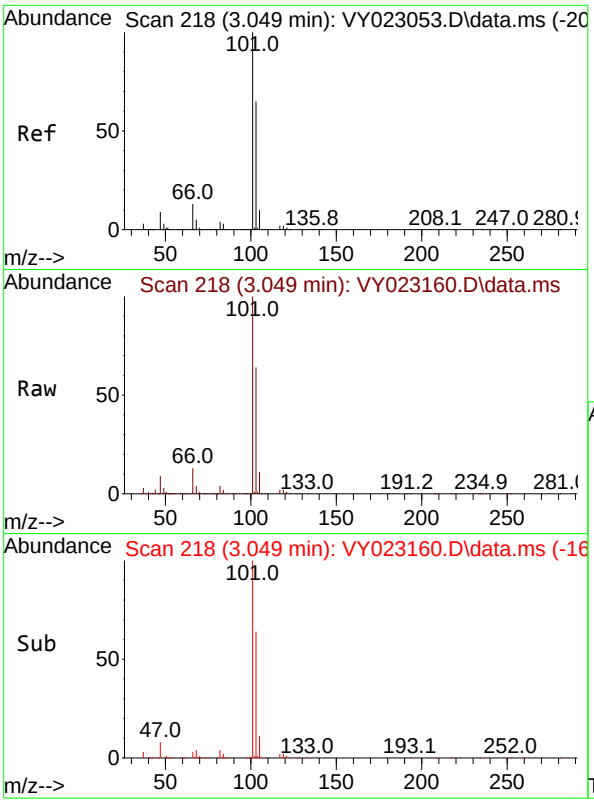




#6
Chloroethane
Concen: 50.860 ug/l
RT: 2.732 min Scan# 166
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 64 Resp: 250831

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.1 | 25.8 | 38.6 |



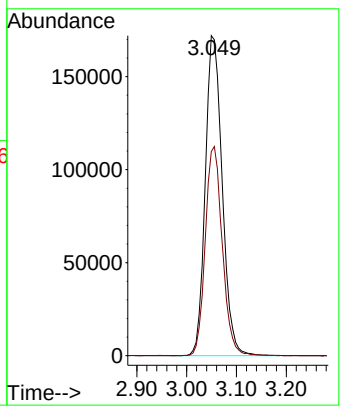


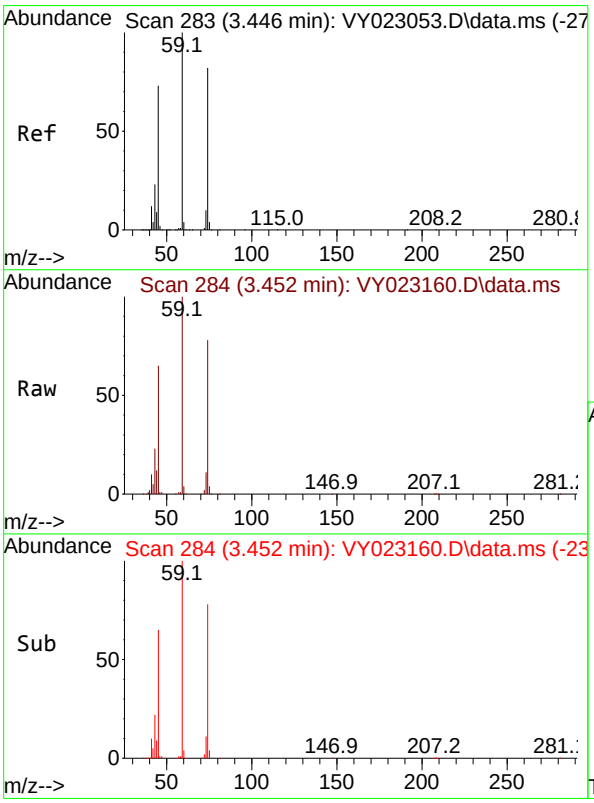

#7
Trichlorofluoromethane
Concen: 44.950 ug/l
RT: 3.049 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:101 Resp: 405455

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.8 | 51.9 | 77.9 |

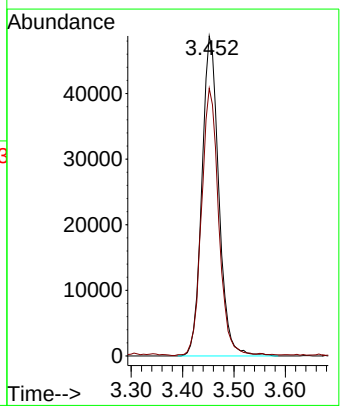


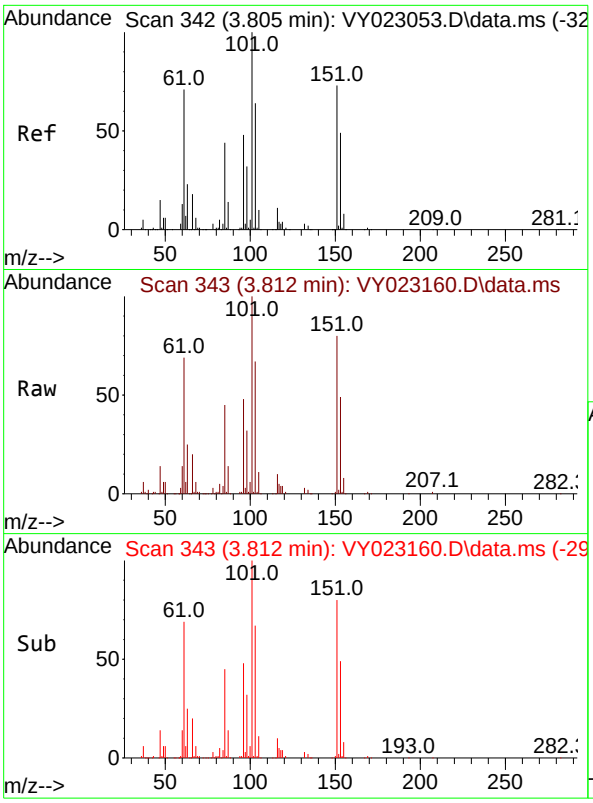




#8
Diethyl Ether
Concen: 46.597 ug/l
RT: 3.452 min Scan# 284
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 74 Resp: 111202

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 84.5 | 44.4 | 133.2 |



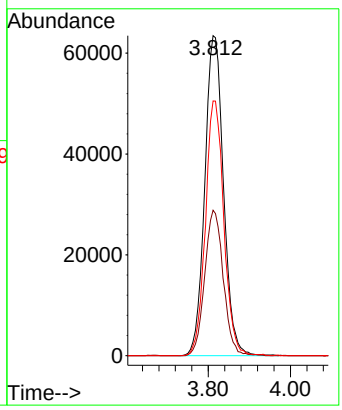


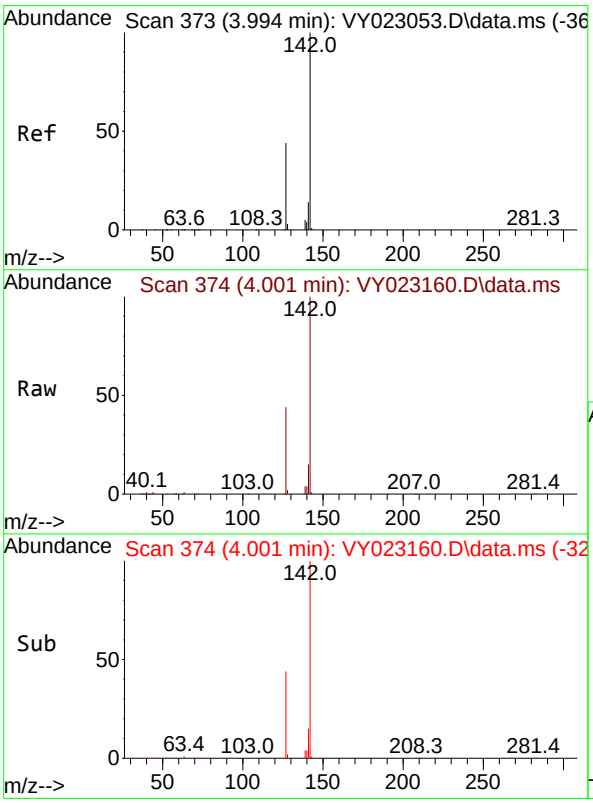

#9
1,1,2-Trichlorotrifluoroethane
Concen: 45.085 ug/l
RT: 3.812 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:101 Resp: 200633

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 45.2 | 36.3 | 54.5 |
| 151 | 78.1 | 61.5 | 92.3 |

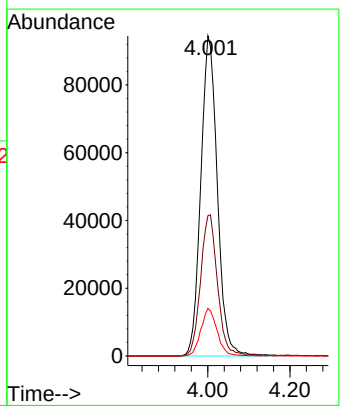


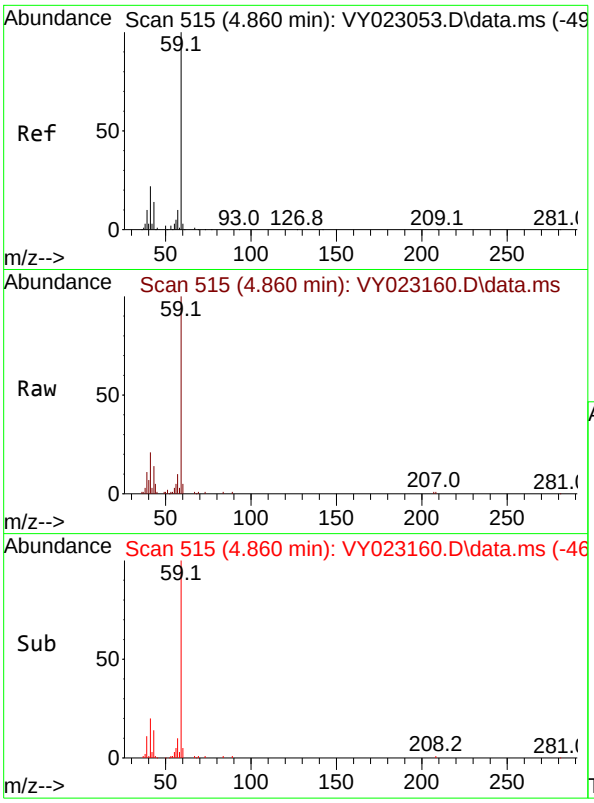




#10
Methyl Iodide
Concen: 54.928 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:142 Resp: 263764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 45.1 | 34.9 | 52.3 |
| 141 | 14.6 | 11.3 | 16.9 |



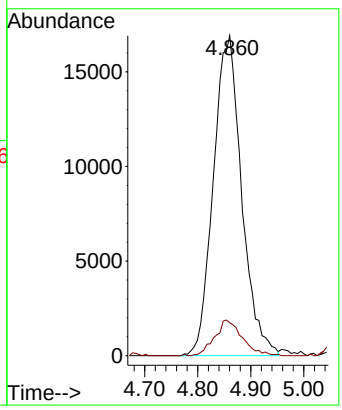


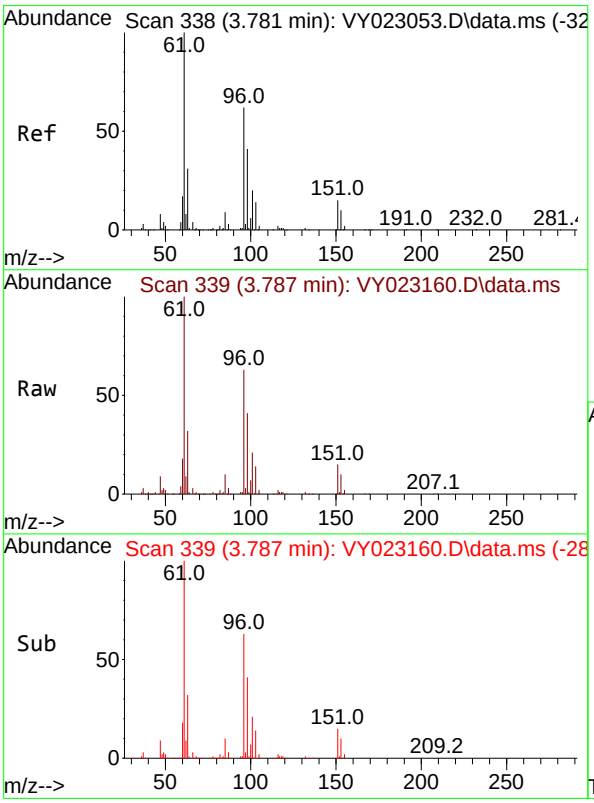

#11
Tert butyl alcohol
Concen: 211.323 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 59 Resp: 62641

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.8 | 8.6 | 13.0 |

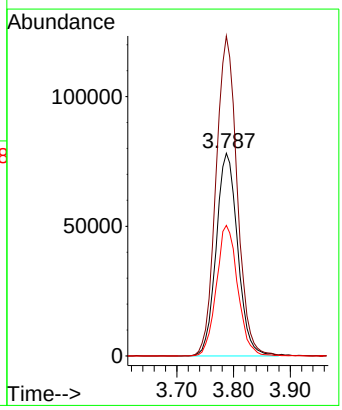


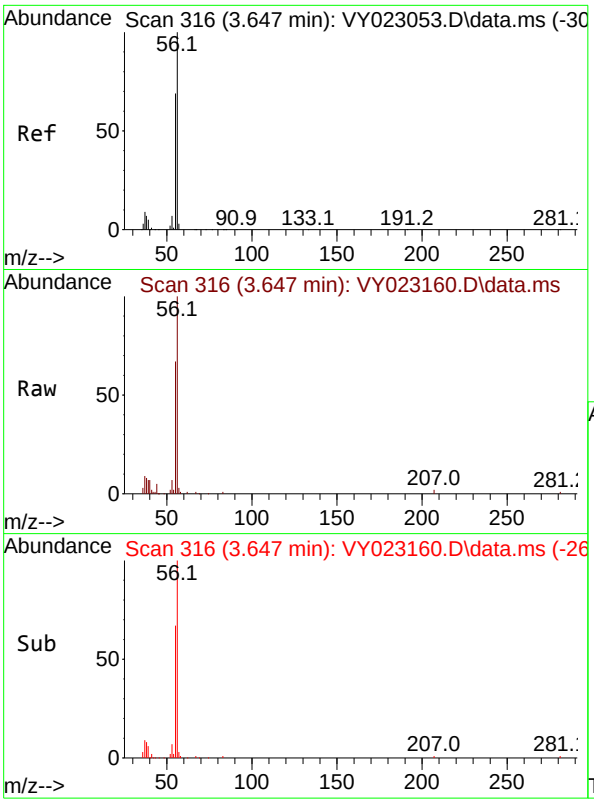




#12
1,1-Dichloroethene
Concen: 47.120 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 96 Resp: 206109

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 157.9 | 129.4 | 194.2 |
| 98 | 64.4 | 52.8 | 79.2 |



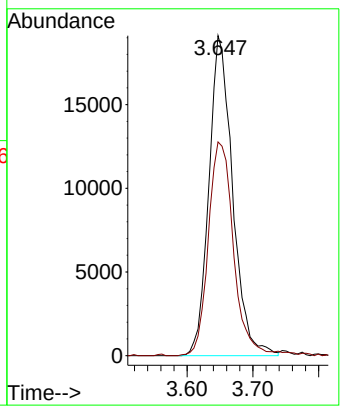


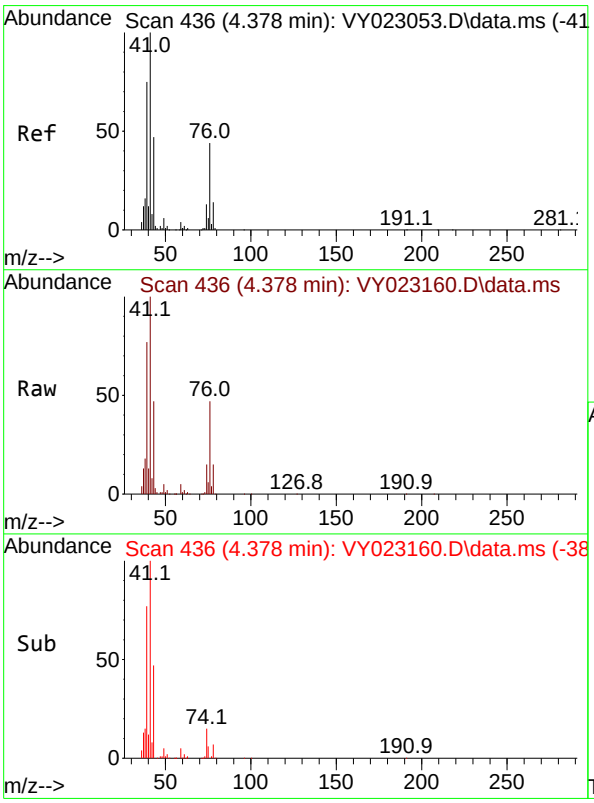

#13
Acrolein
Concen: 110.581 ug/l
RT: 3.647 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 56 Resp: 48005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 71.1 | 55.2 | 82.8 |

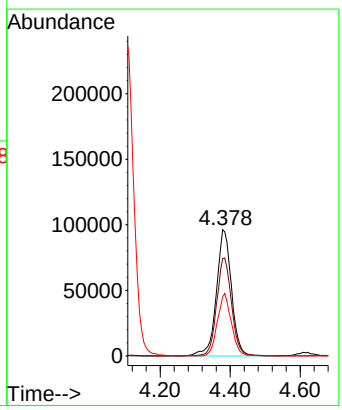


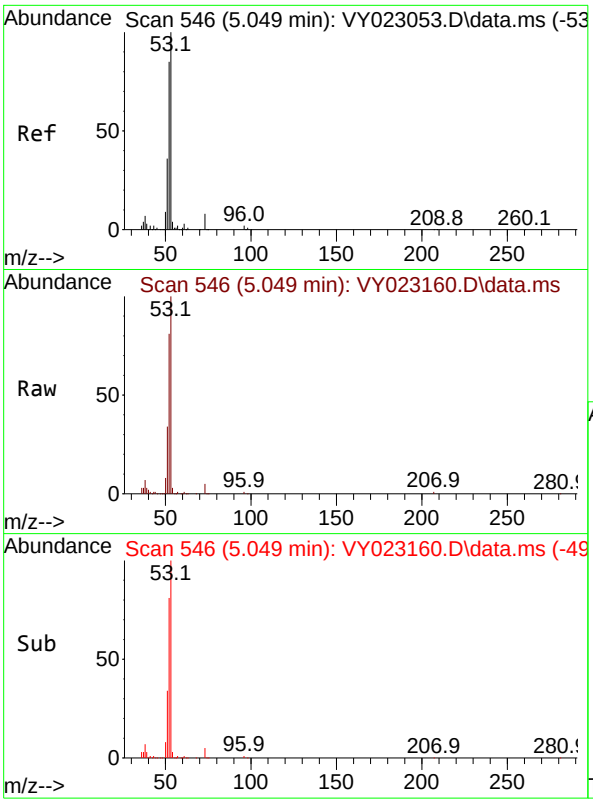




#14
Allyl chloride
Concen: 44.800 ug/l
RT: 4.378 min Scan# 436
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 41 Resp: 288345

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 76.3 | 59.8 | 89.6 |
| 76 | 45.6 | 33.7 | 50.5 |



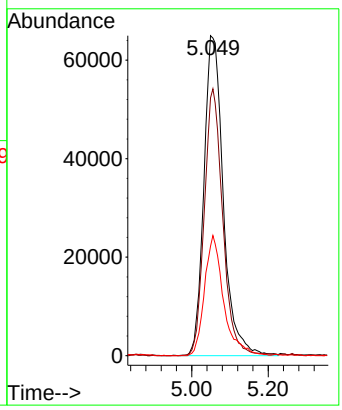


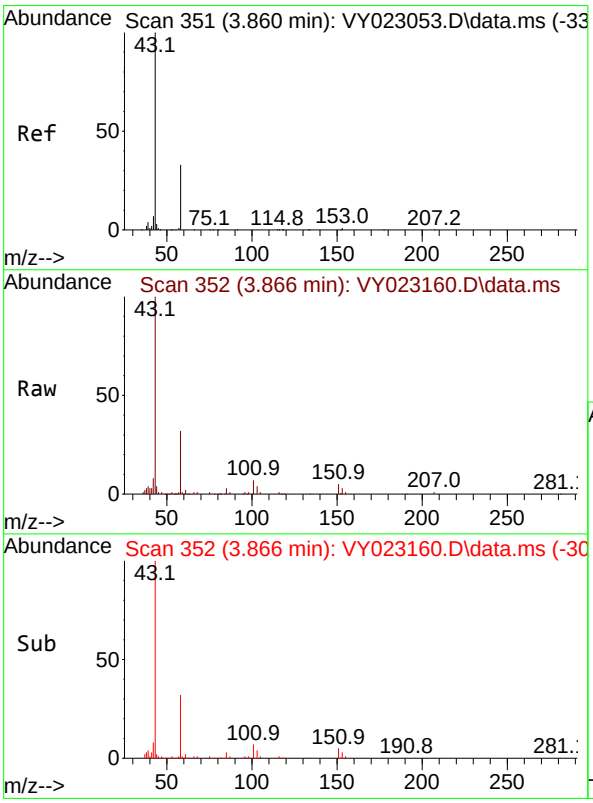

#15
Acrylonitrile
Concen: 235.673 ug/l
RT: 5.049 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 53 Resp: 228651

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 79.4 | 65.3 | 97.9 |
| 51 | 37.0 | 29.5 | 44.3 |

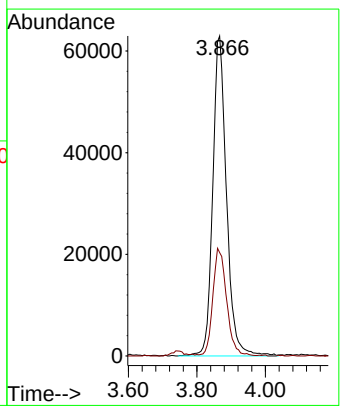


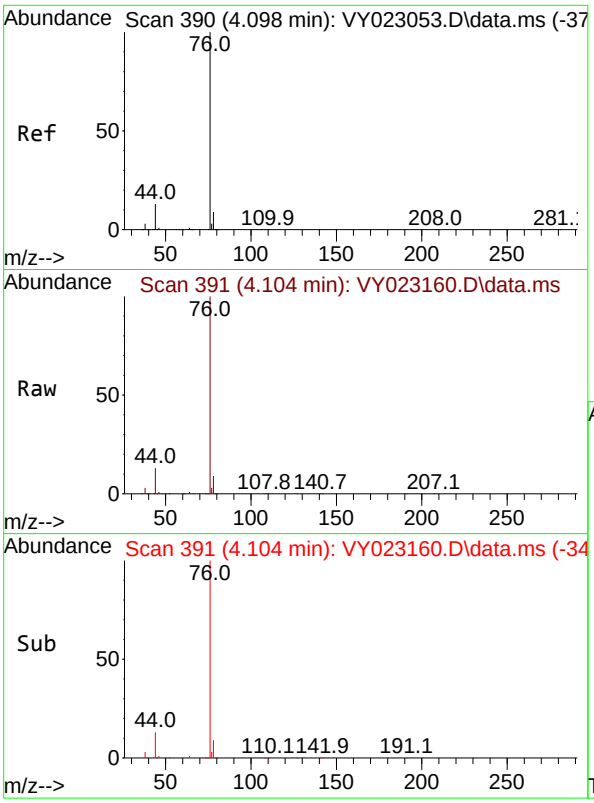




#16
Acetone
Concen: 187.073 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 43 Resp: 175331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.1 | 27.1 | 40.7 |



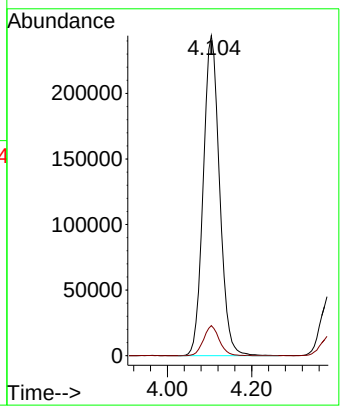


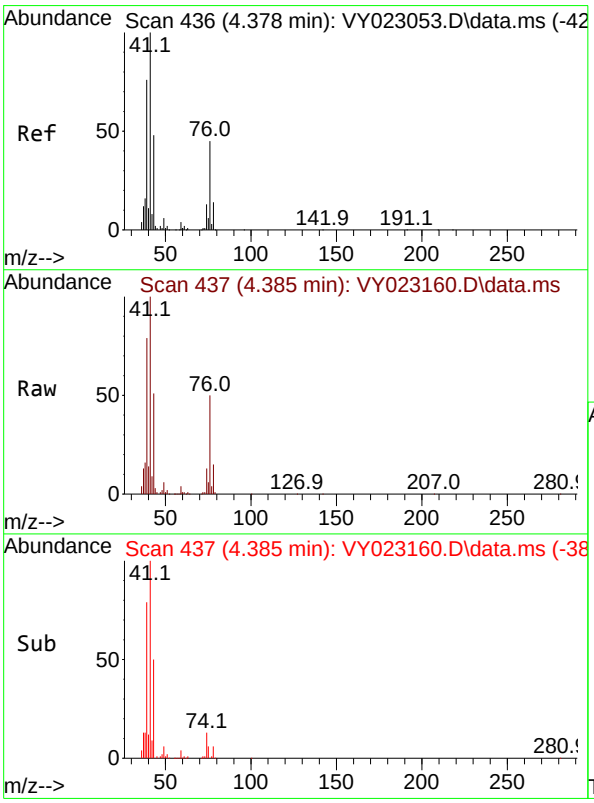

#17
Carbon Disulfide
Concen: 46.066 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 76 Resp: 657020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.4 | 7.4 | 11.2 |

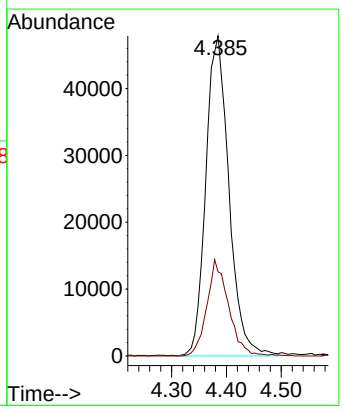


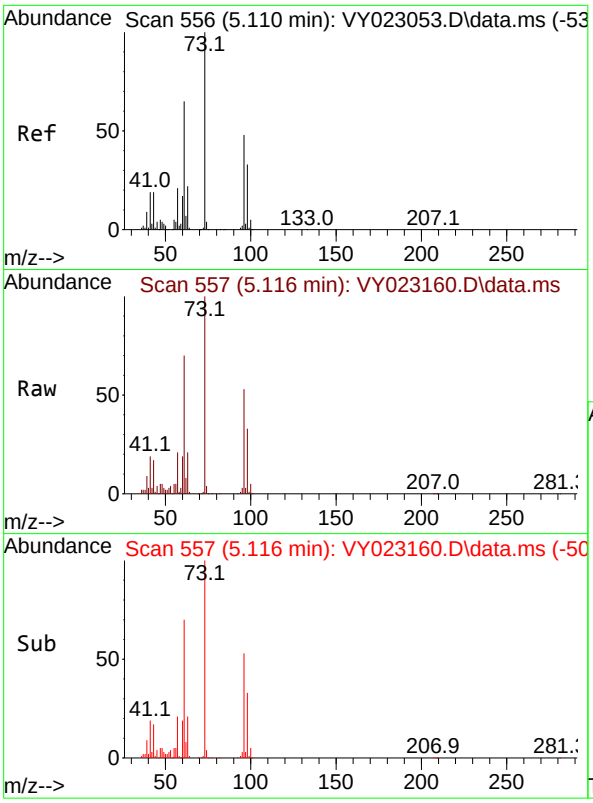




#18
Methyl Acetate
Concen: 50.290 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 43 Resp: 140261

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 28.1 | 21.2 | 31.8 |



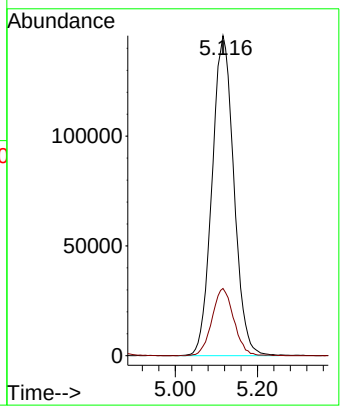


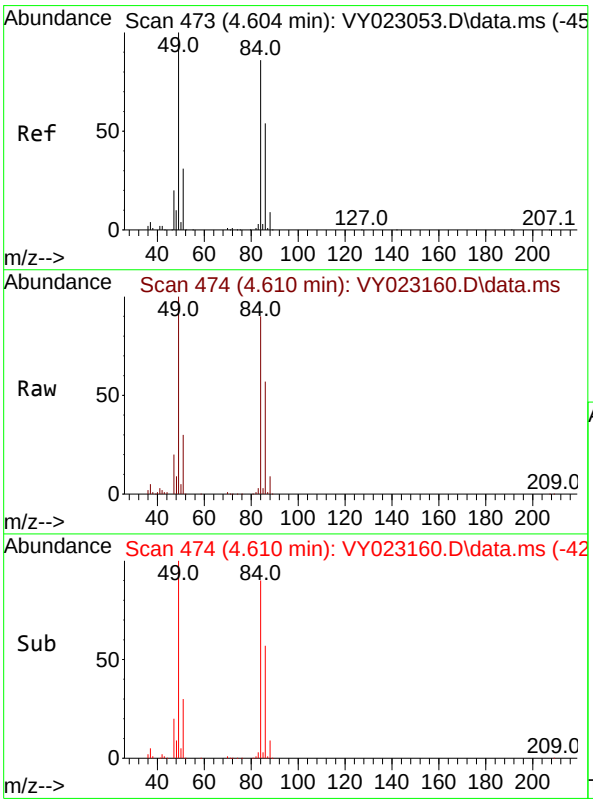

#19
Methyl tert-butyl Ether
Concen: 47.480 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 73 Resp: 538168

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.0 | 17.1 | 25.7 |

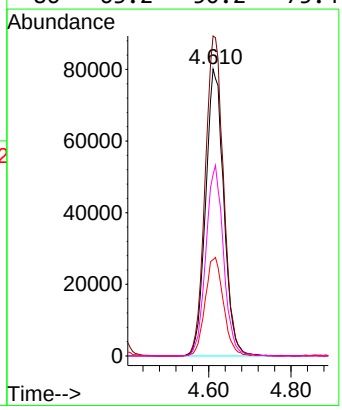


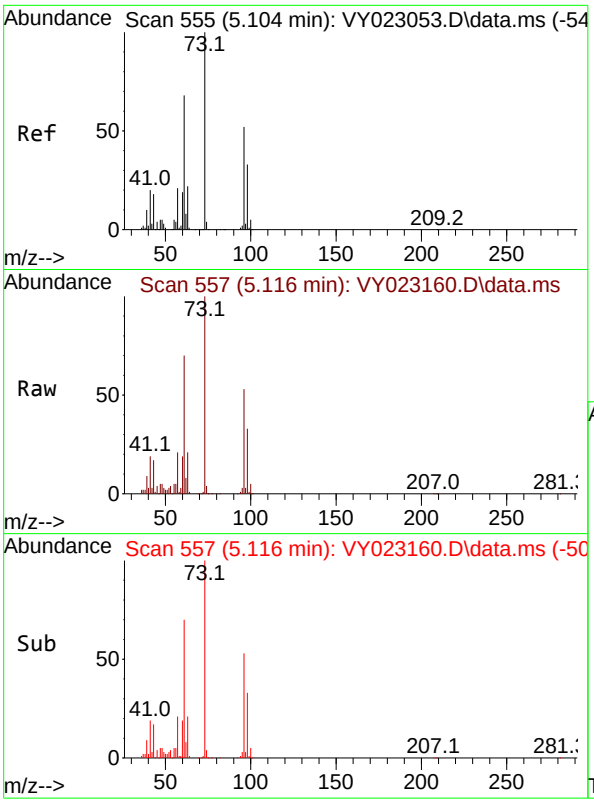




#20
Methylene Chloride
Concen: 50.247 ug/l
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 84 Resp: 244646

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 111.5 | 93.0 | 139.6 |
| 51 | 33.6 | 29.0 | 43.4 |
| 86 | 63.2 | 50.2 | 75.4 |



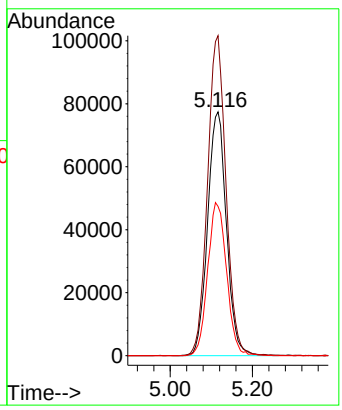


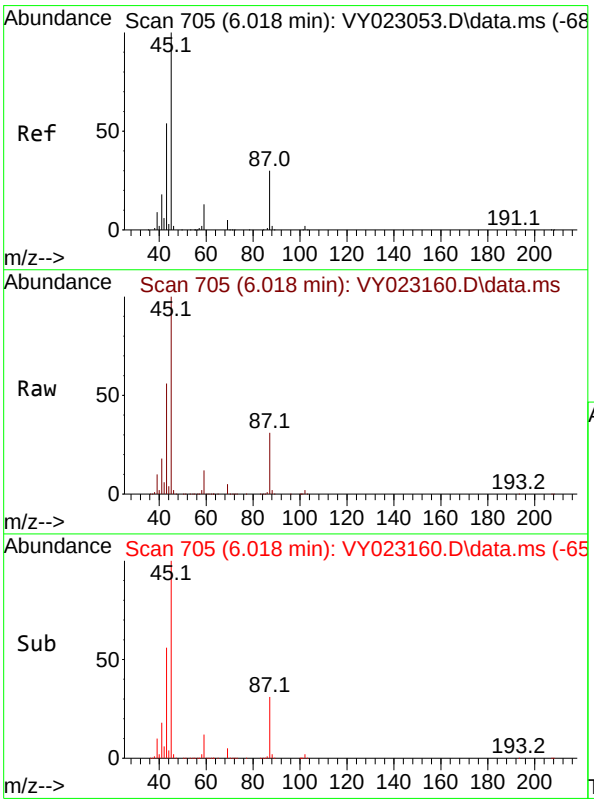

#21
trans-1,2-Dichloroethene
Concen: 50.119 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.012 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 96 Resp: 246365

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 131.2 | 104.8 | 157.2 |
| 98 | 61.2 | 50.1 | 75.1 |

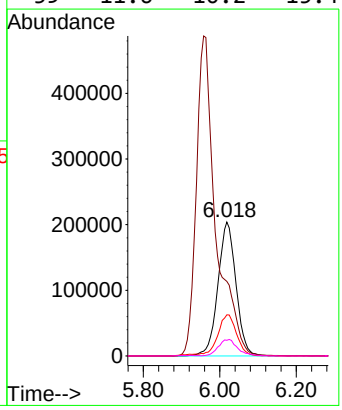


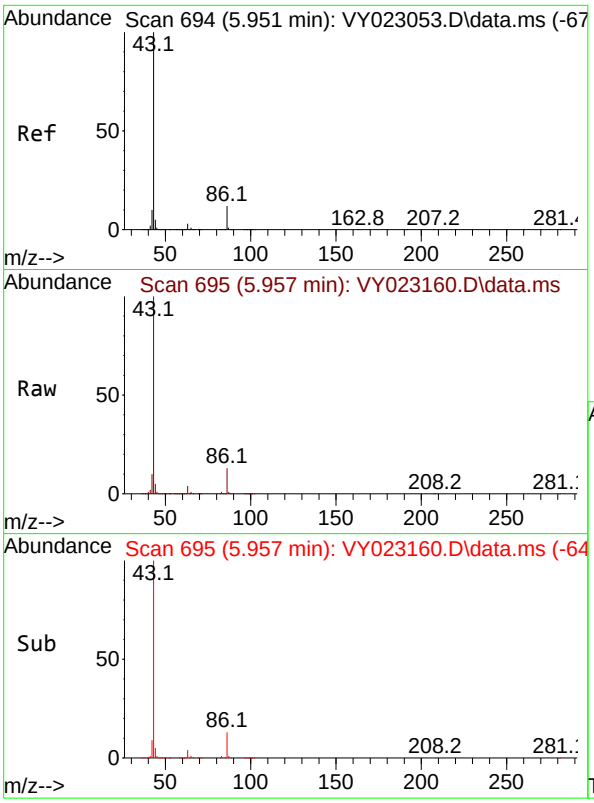




#22
Diisopropyl ether
Concen: 47.919 ug/l
RT: 6.018 min Scan# 705
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 45 Resp: 670200

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 55.5 | 43.4 | 65.0 |
| 87 | 30.7 | 24.4 | 36.6 |
| 59 | 11.6 | 10.2 | 15.4 |



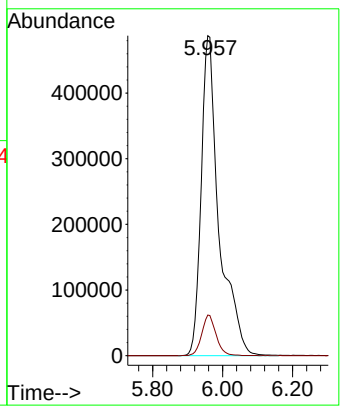


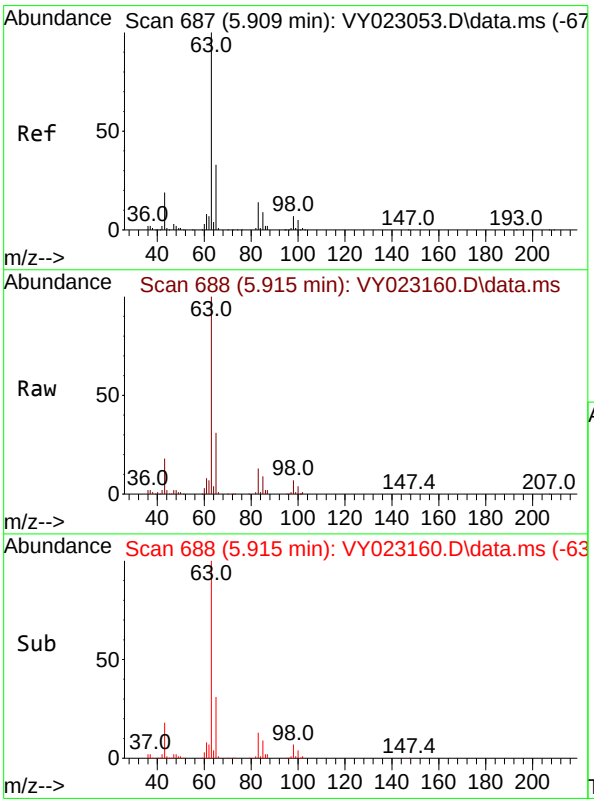

#23
Vinyl Acetate
Concen: 223.289 ug/l
RT: 5.957 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 43 Resp: 1726827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 12.7 | 9.6 | 14.4 |

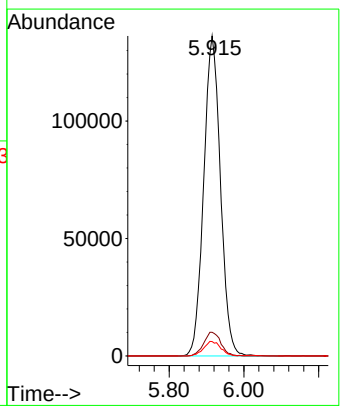


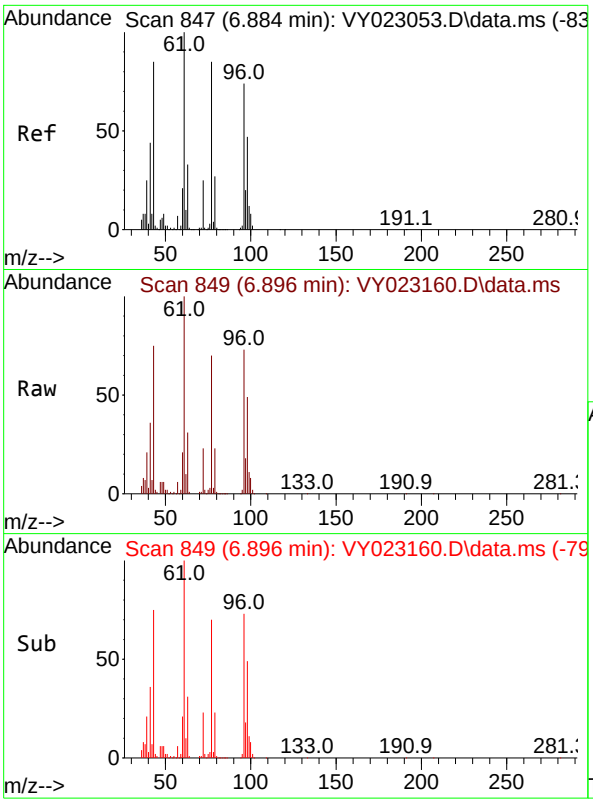




#24
1,1-Dichloroethane
Concen: 49.522 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 63 Resp: 423462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.4 | 3.5 | 10.6 |
| 100 | 4.5 | 2.4 | 7.1 |



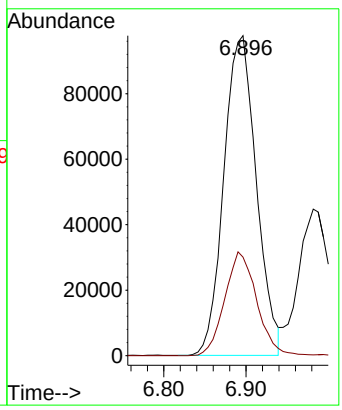


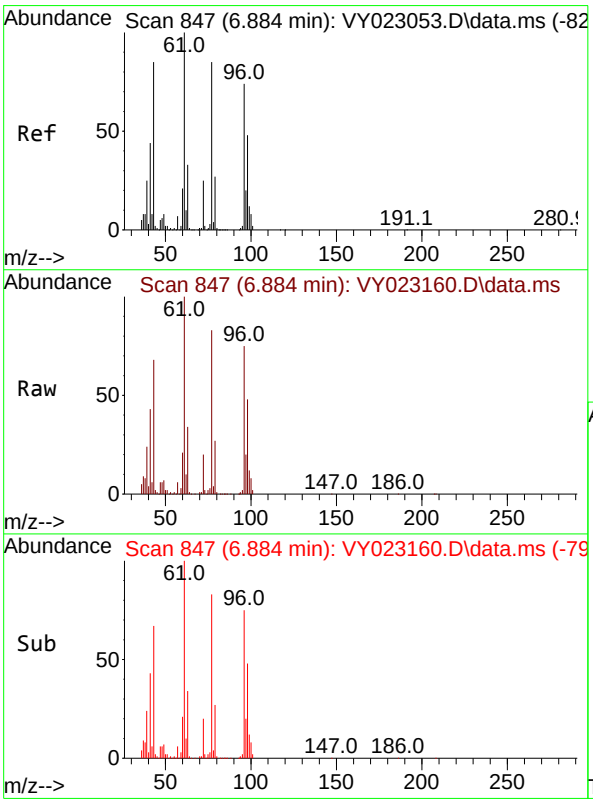

#25
2-Butanone
Concen: 210.456 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.012 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 43 Resp: 268264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 30.8 | 23.5 | 35.3 |

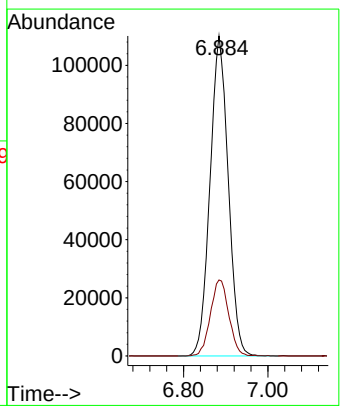


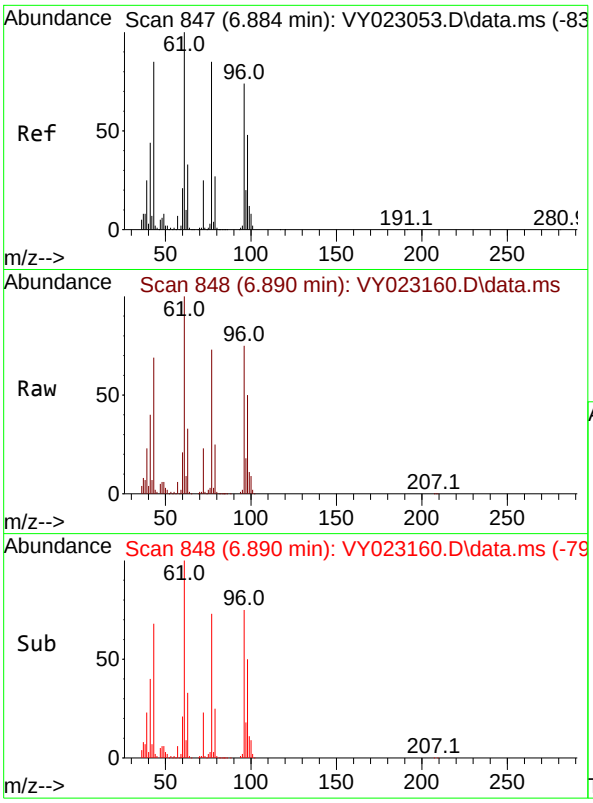




#26
2,2-Dichloropropane
Concen: 44.729 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 77 Resp: 330025

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 24.0 | 11.6 | 34.8 |



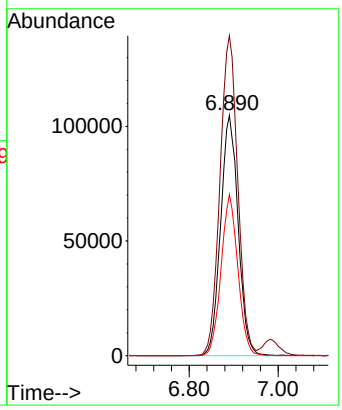


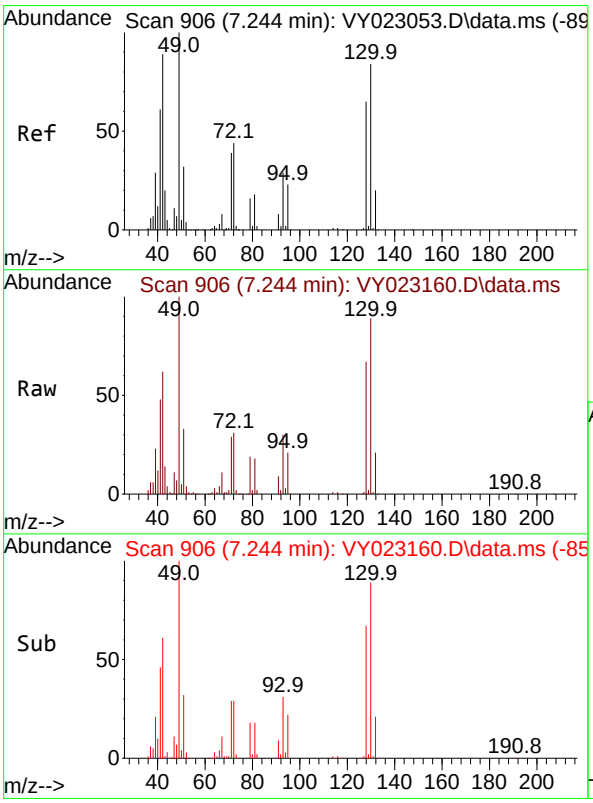

#27
cis-1,2-Dichloroethene
Concen: 50.390 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 96 Resp: 286353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 135.0 | 0.0 | 278.6 |
| 98 | 64.2 | 0.0 | 130.4 |

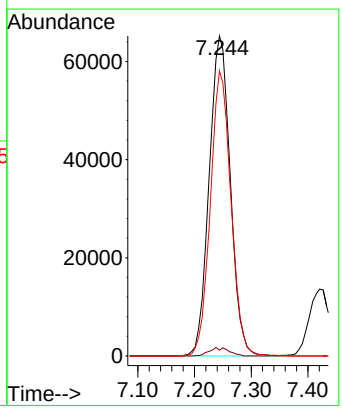


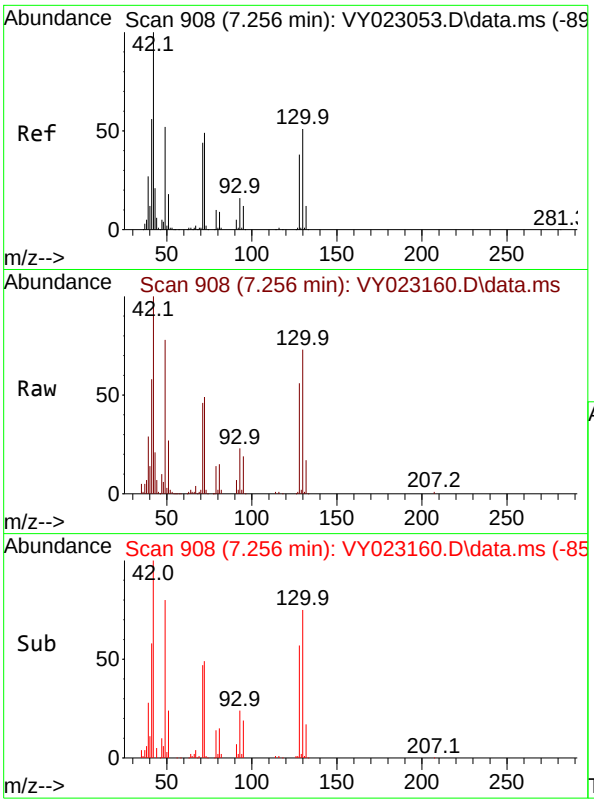




#28
Bromochloromethane
Concen: 49.712 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 49 Resp: 168646

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.5 | 0.0 | 4.2 |
| 130 | 87.0 | 66.4 | 99.6 |



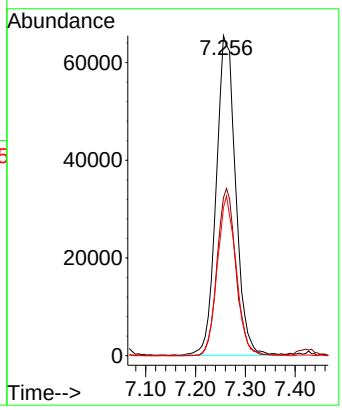


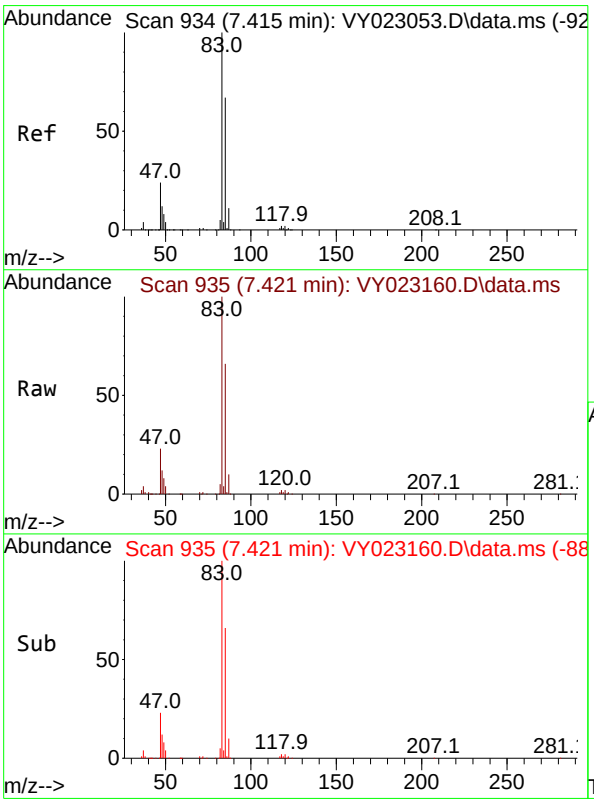

#29
Tetrahydrofuran
Concen: 223.965 ug/l
RT: 7.256 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 42 Resp: 176959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 51.0 | 39.4 | 59.2 |
| 71 | 48.7 | 36.5 | 54.7 |

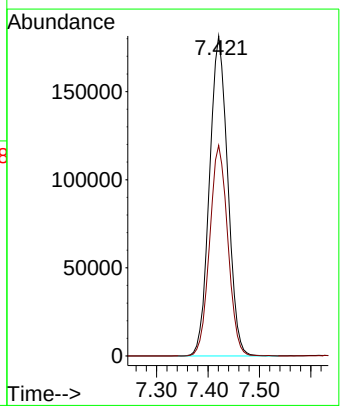


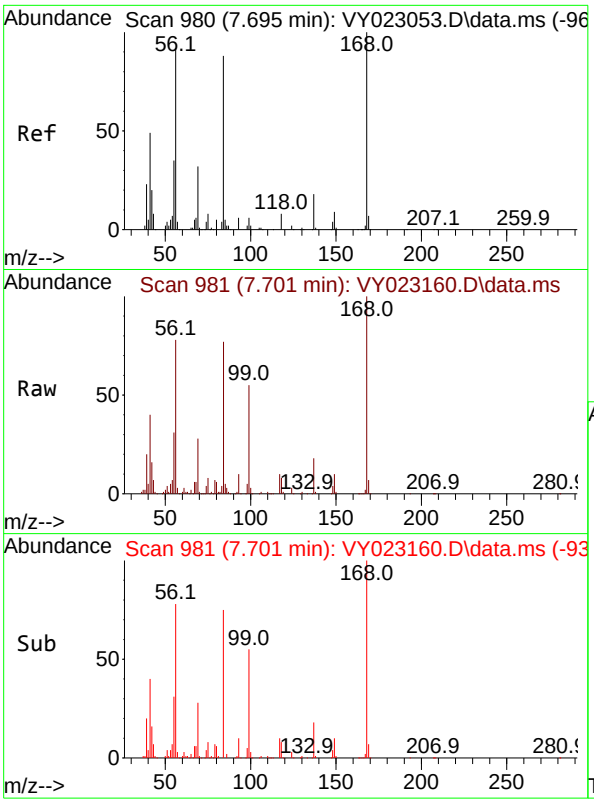




#30
Chloroform
Concen: 50.699 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 83 Resp: 447102

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.8 | 53.8 | 80.8 |



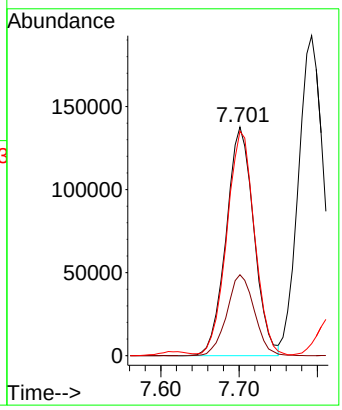


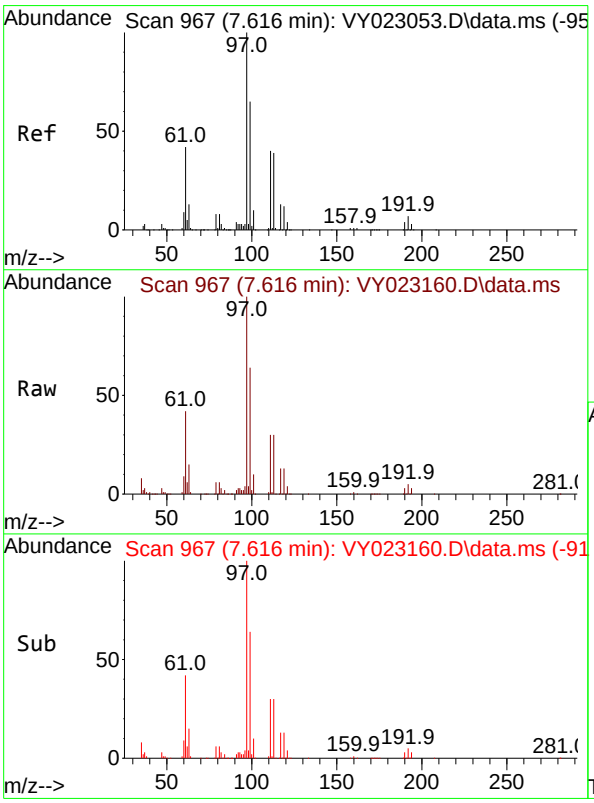

#31
Cyclohexane
Concen: 42.047 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 56 Resp: 338813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 35.4 | 28.2 | 42.2 |
| 84 | 96.4 | 76.6 | 114.8 |

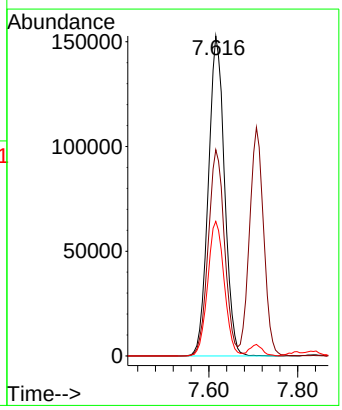


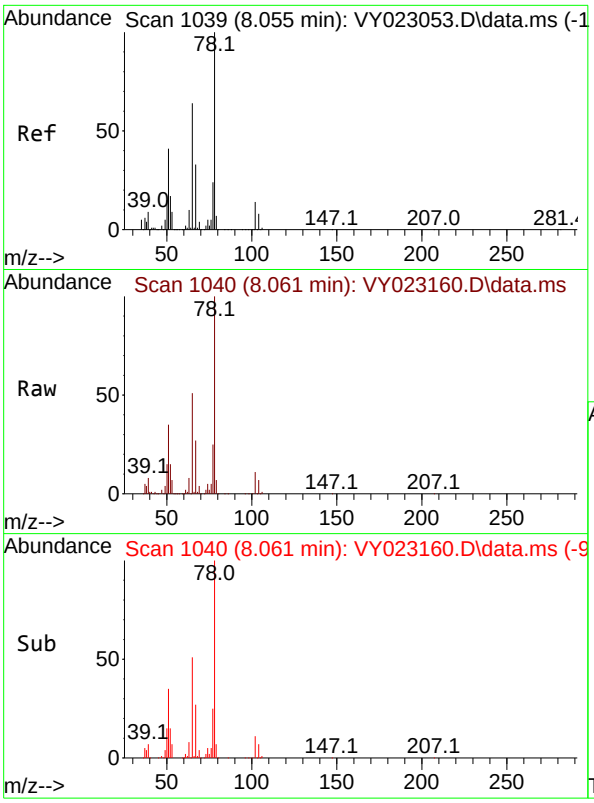




#32
1,1,1-Trichloroethane
Concen: 49.443 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 97 Resp: 386894

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.8 | 51.6 | 77.4 |
| 61 | 42.9 | 34.2 | 51.2 |



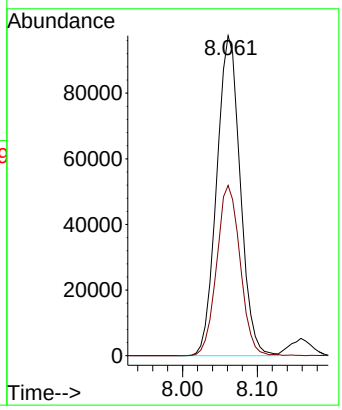


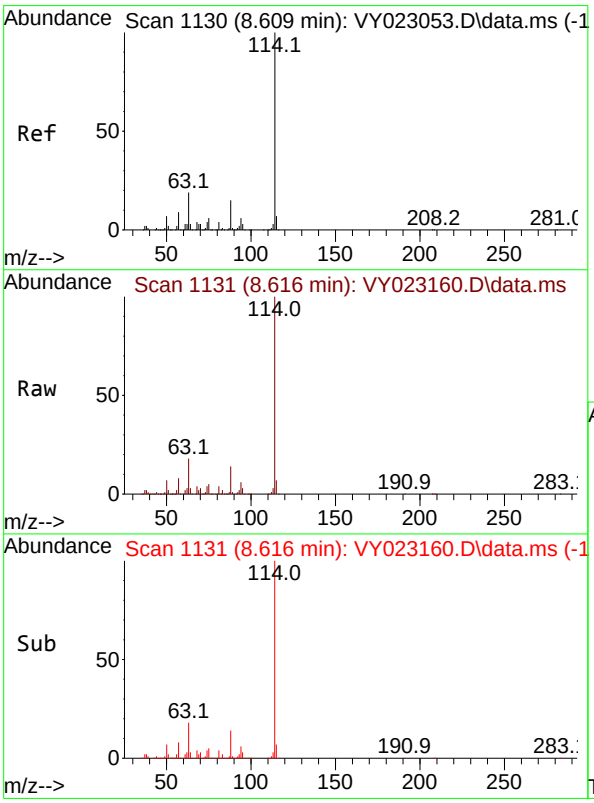

#33
1,2-Dichloroethane-d4
Concen: 49.322 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 65 Resp: 213375

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.0 | 0.0 | 106.8 |

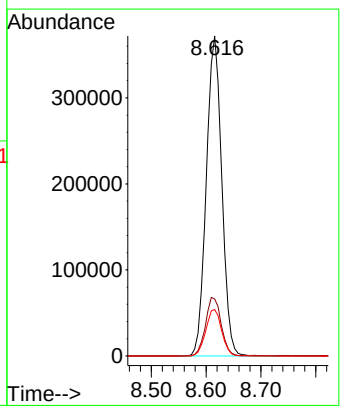


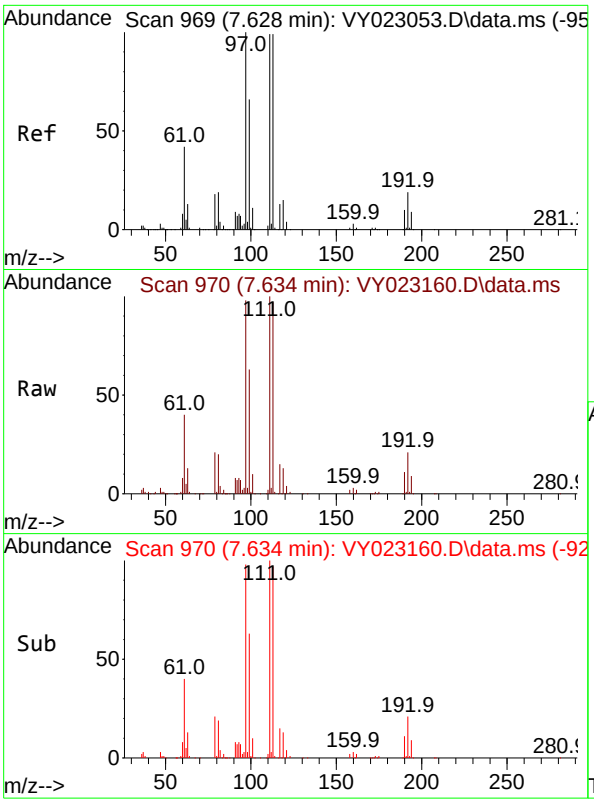




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:114 Resp: 726912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 17.8 | 0.0 | 38.4 |
| 88 | 14.5 | 0.0 | 30.0 |



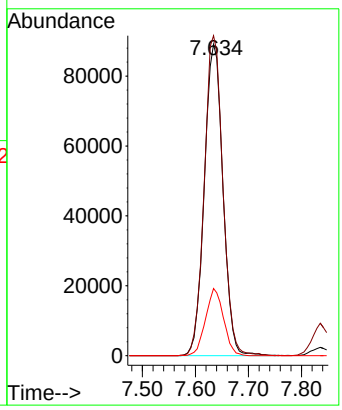


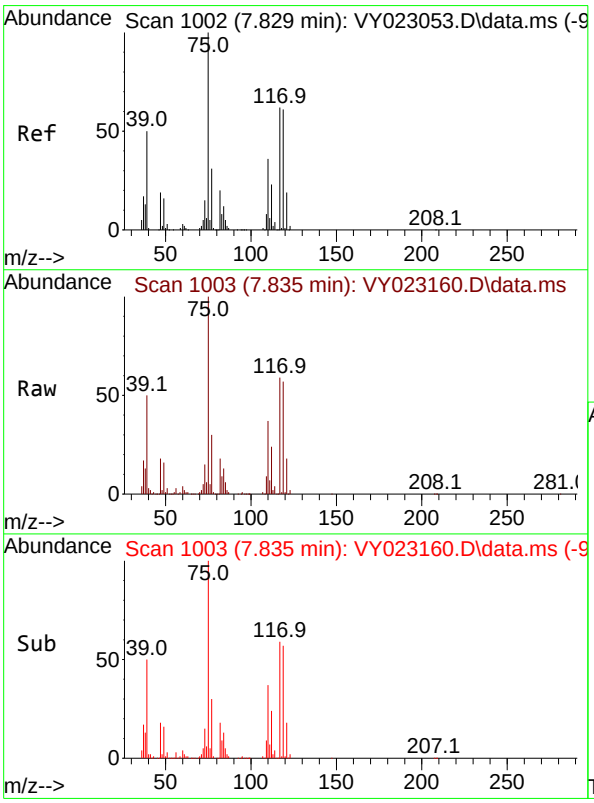

#35
Dibromofluoromethane
Concen: 49.903 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:113 Resp: 217058

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.8 | 81.1 | 121.7 |
| 192 | 20.9 | 16.2 | 24.4 |

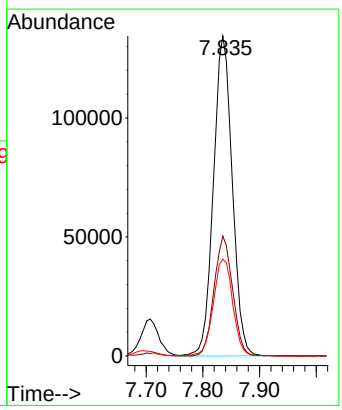


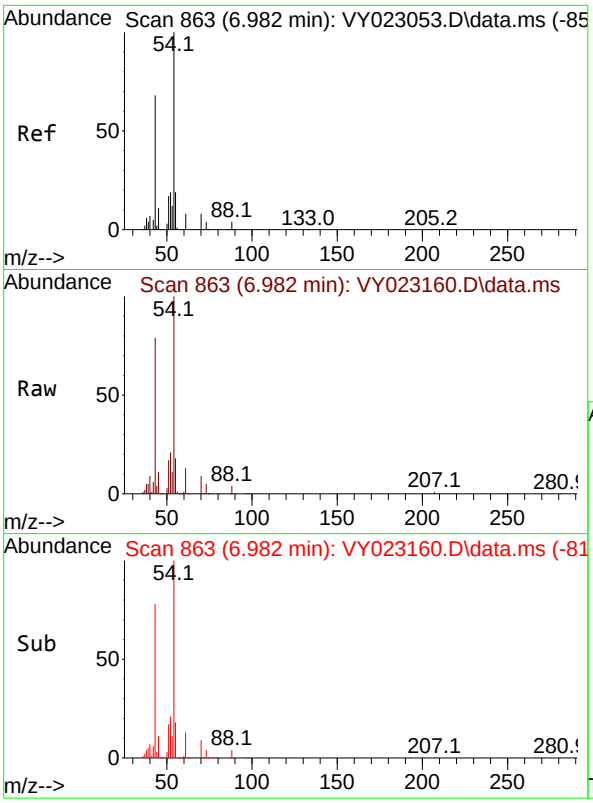




#36
1,1-Dichloropropene
Concen: 47.746 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 75 Resp: 308640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 37.0 | 18.1 | 54.4 |
| 77 | 31.4 | 24.6 | 37.0 |



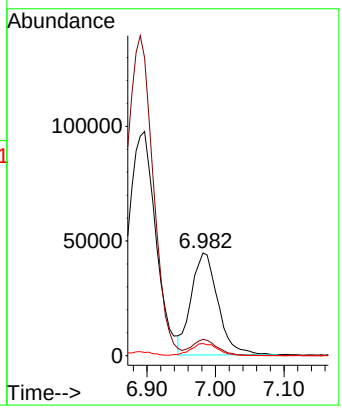


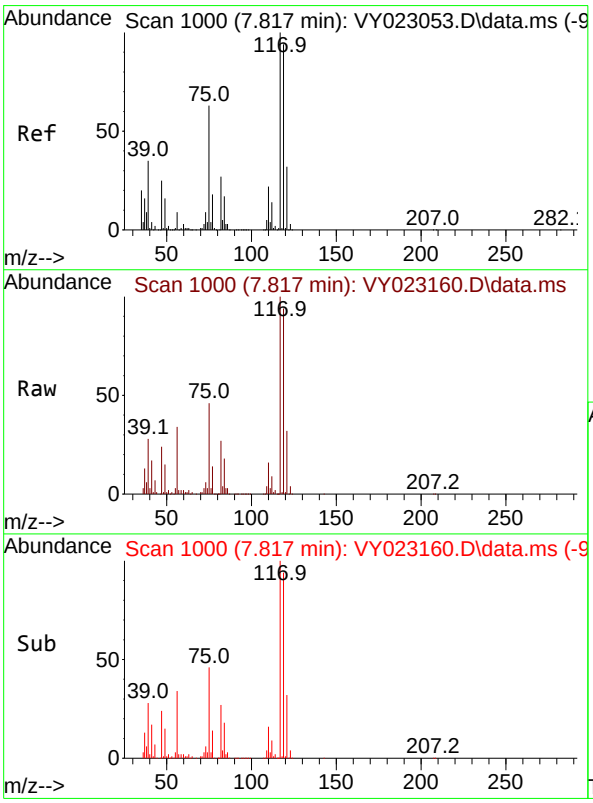

#37
Ethyl Acetate
Concen: 44.444 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 43 Resp: 120682

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.9 | 11.9 | 17.9 |
| 70 | 12.3 | 8.8 | 13.2 |

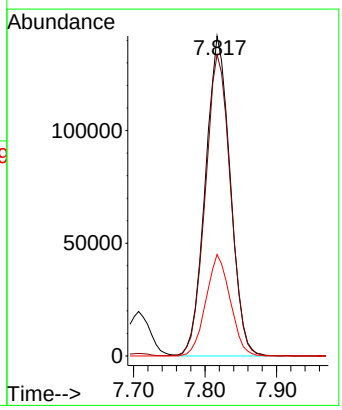


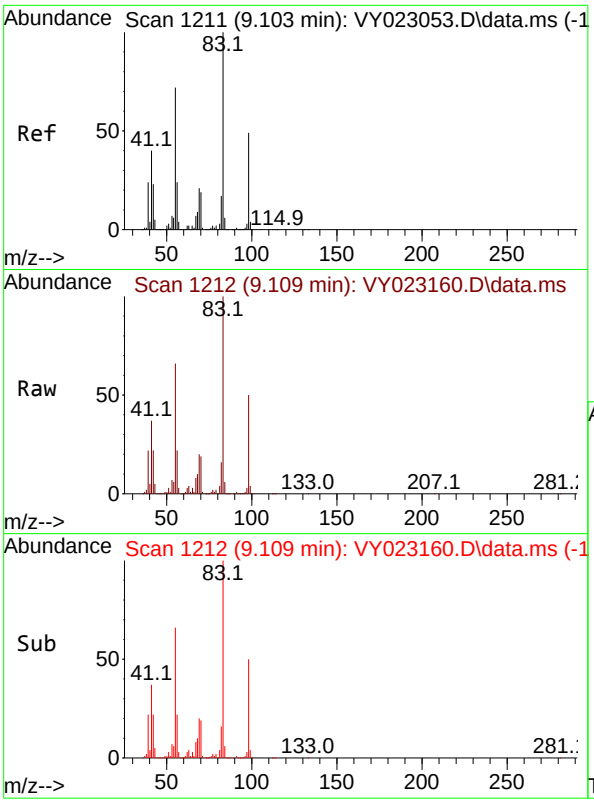




#38
Carbon Tetrachloride
Concen: 48.612 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:117 Resp: 341297

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.1 | 75.6 | 113.4 |
| 121 | 31.7 | 25.8 | 38.8 |



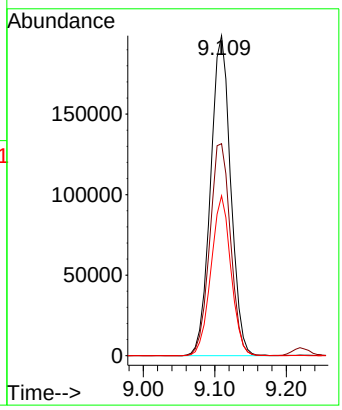


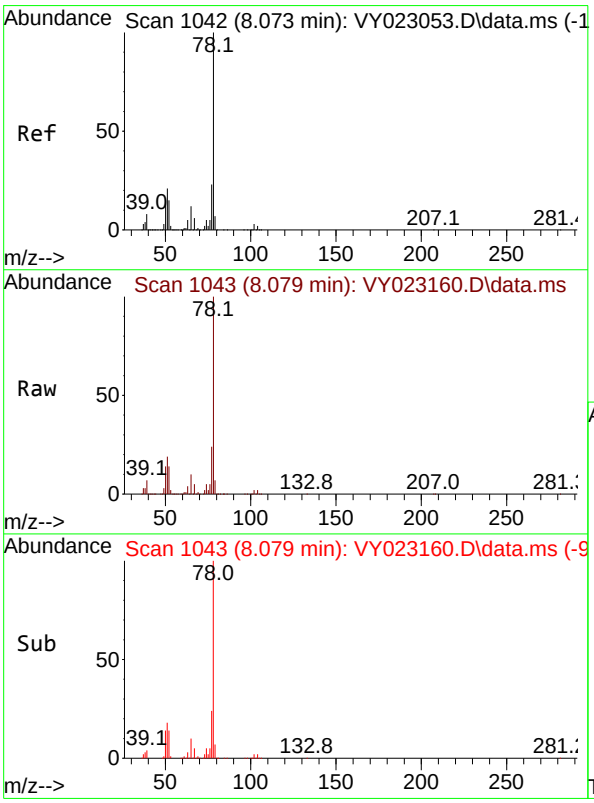

#39
Methylcyclohexane
Concen: 45.580 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 83 Resp: 387997

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 66.2 | 57.6 | 86.4 |
| 98 | 49.9 | 39.2 | 58.8 |

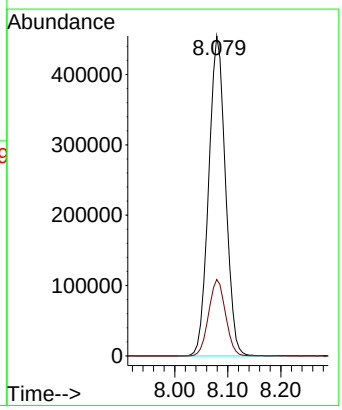


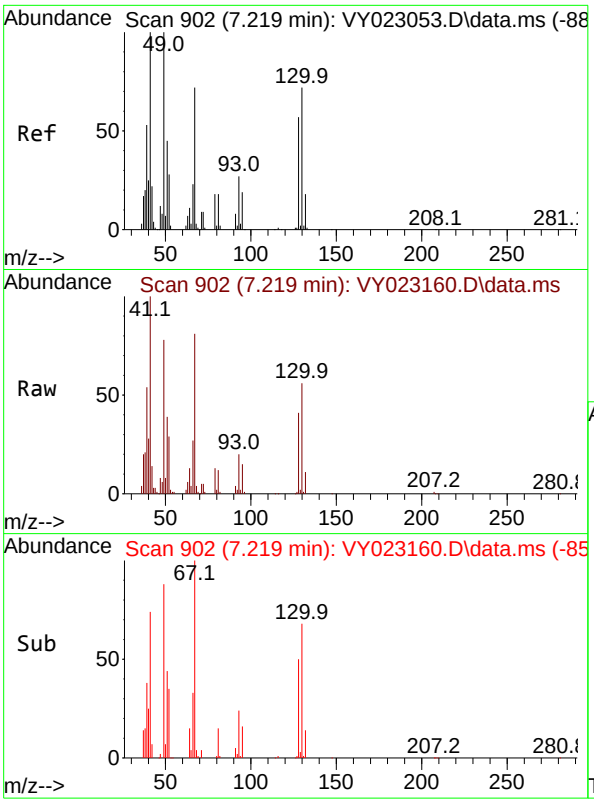




#40
Benzene
Concen: 50.170 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 78 Resp: 999546

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.9 | 18.6 | 28.0 |



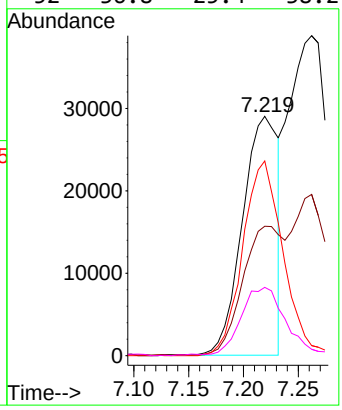


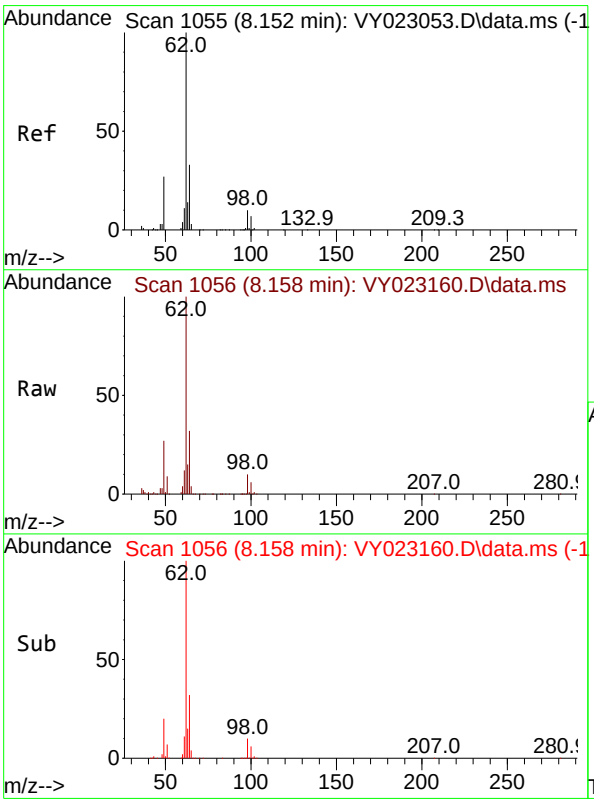

#41
Methacrylonitrile
Concen: 41.877 ug/l
RT: 7.219 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 41 Resp: 65626

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 62.3 | 43.4 | 65.2 |
| 67 | 92.6 | 63.6 | 95.4 |
| 52 | 36.8 | 25.4 | 38.2 |

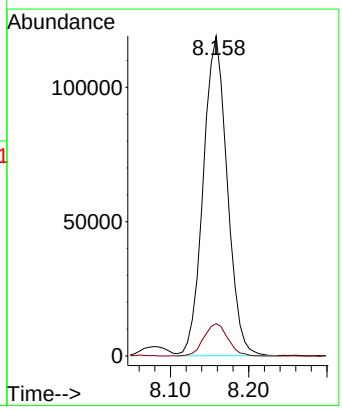


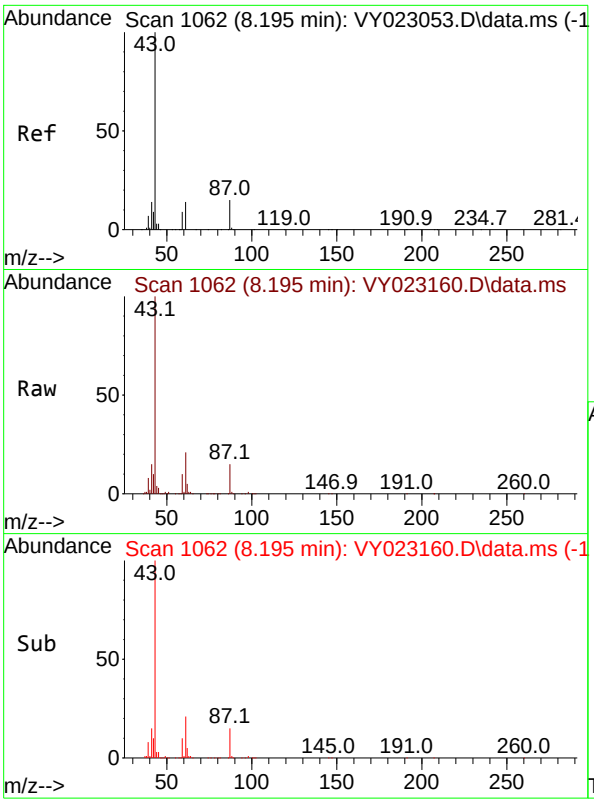




#42
1,2-Dichloroethane
Concen: 48.835 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 62 Resp: 253049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.1 | 0.0 | 20.6 |



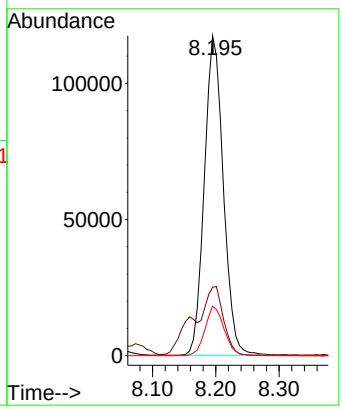


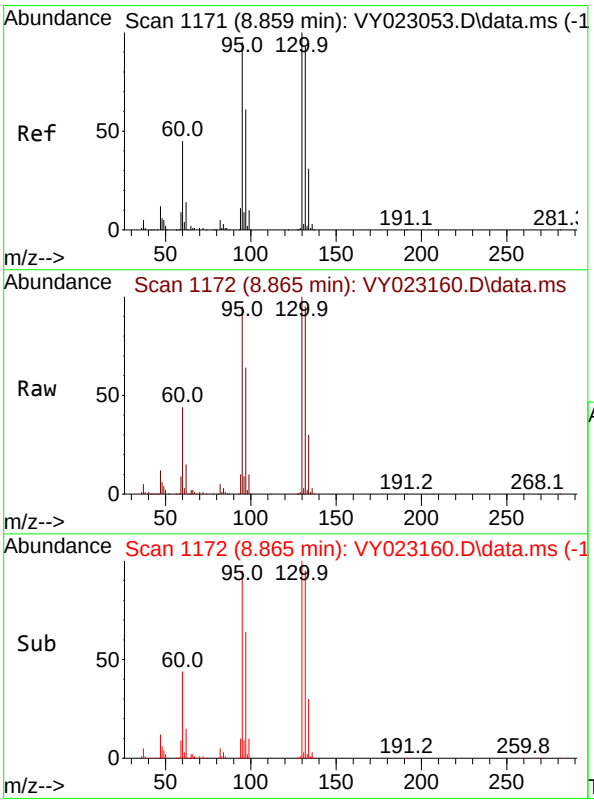

#43
Isopropyl Acetate
Concen: 44.694 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 43 Resp: 245293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 22.2 | 16.4 | 24.6 |
| 87 | 15.5 | 11.8 | 17.6 |

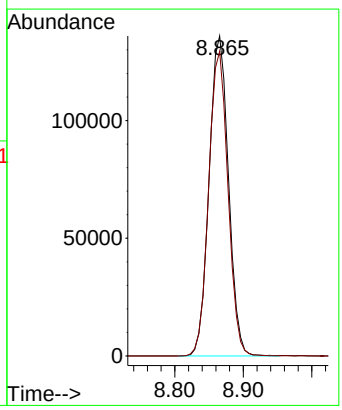


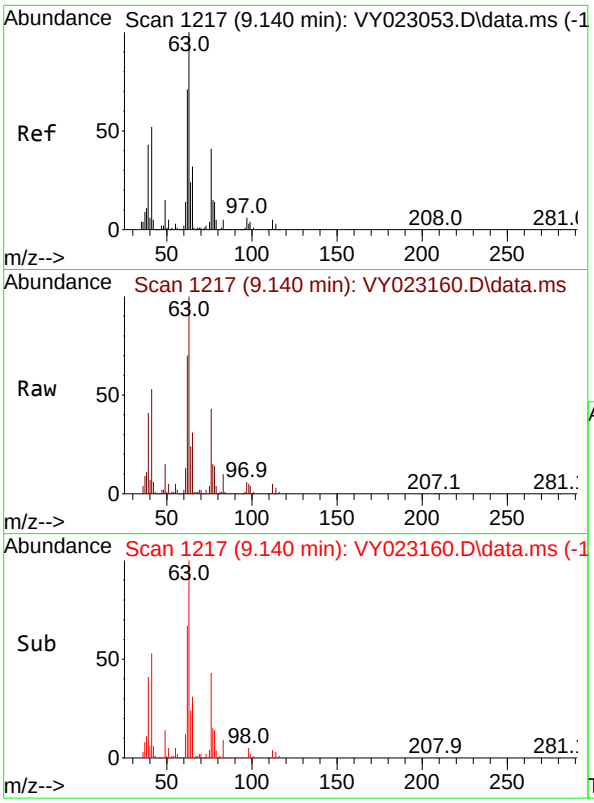




#44
Trichloroethene
Concen: 51.782 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:130 Resp: 266609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 95.2 | 0.0 | 190.2 |



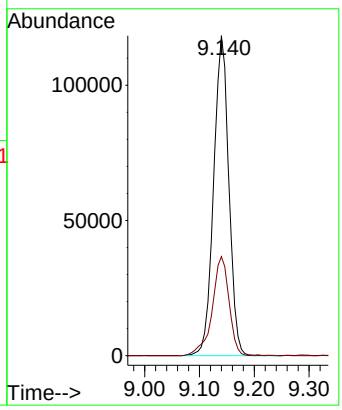


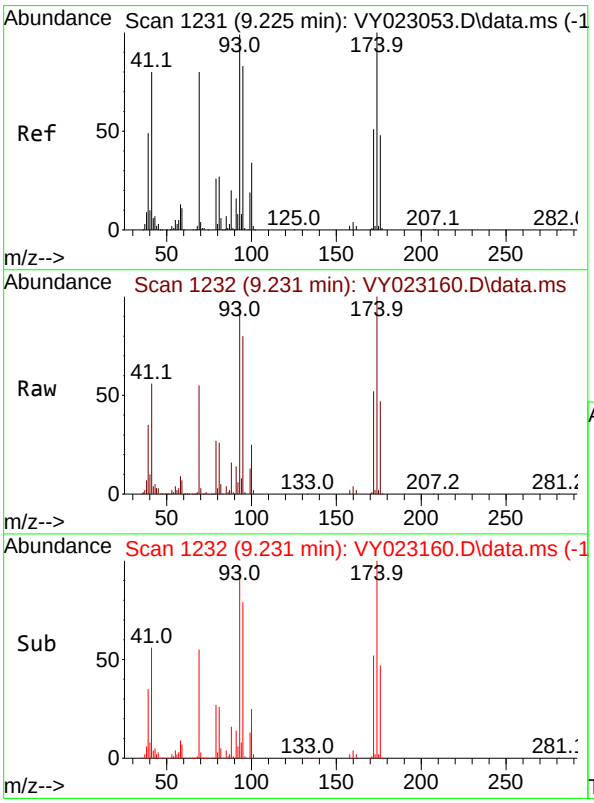

#45
1,2-Dichloropropane
Concen: 49.829 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 63 Resp: 228425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.0 | 25.3 | 37.9 |

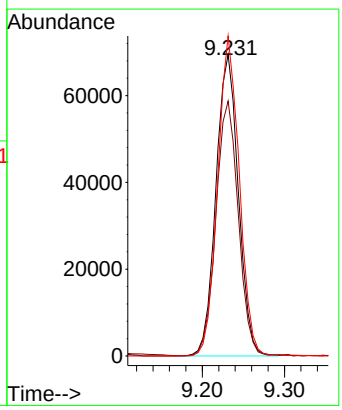


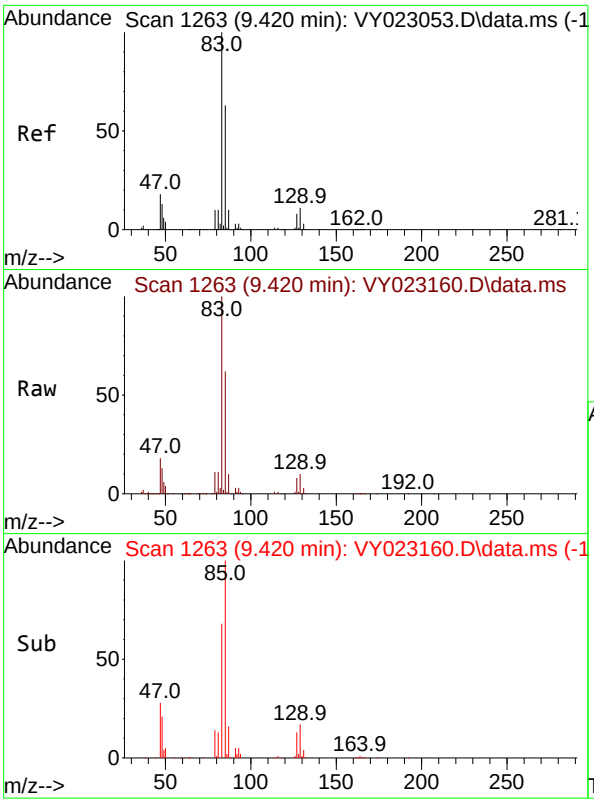




#46
Dibromomethane
Concen: 49.971 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 93 Resp: 131481

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 84.7 | 66.5 | 99.7 |
| 174 | 102.7 | 81.8 | 122.8 |



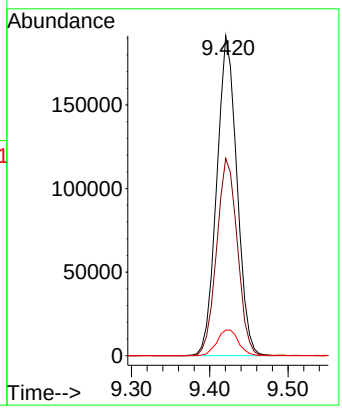


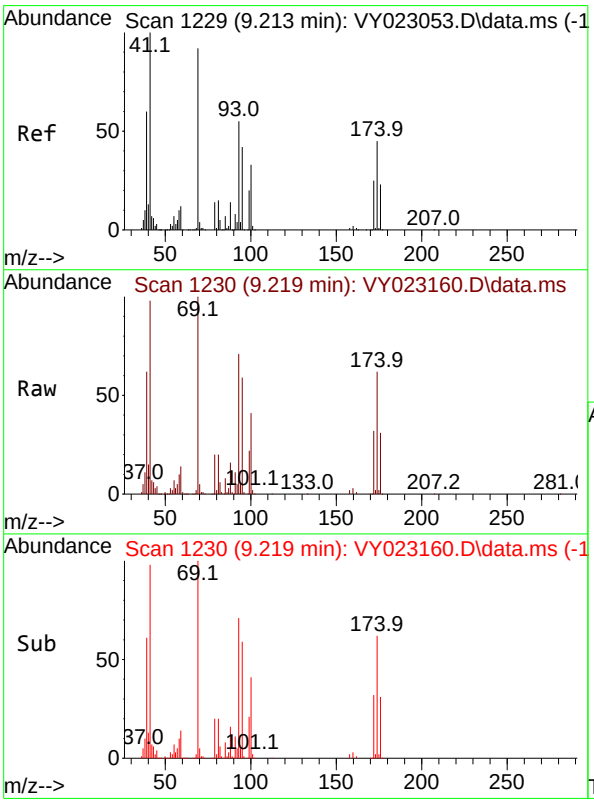

#47
Bromodichloromethane
Concen: 50.703 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 83 Resp: 343279

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 61.6 | 50.2 | 75.4 |
| 127 | 8.0 | 6.6 | 10.0 |

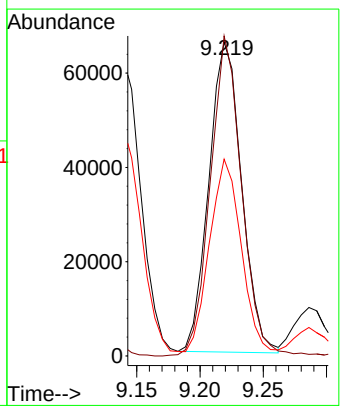


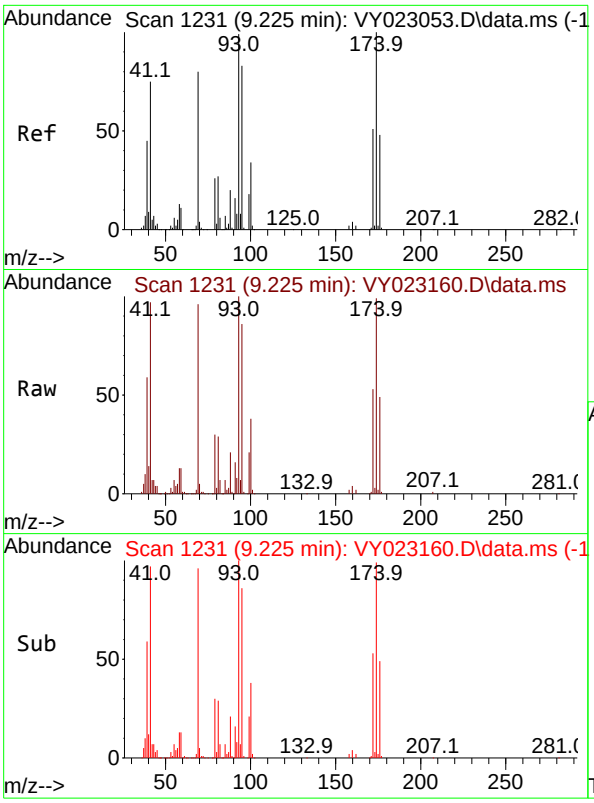




#48
Methyl methacrylate
Concen: 45.021 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 41 Resp: 118237

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 99.0 | 73.2 | 109.8 |
| 39 | 59.8 | 47.0 | 70.4 |



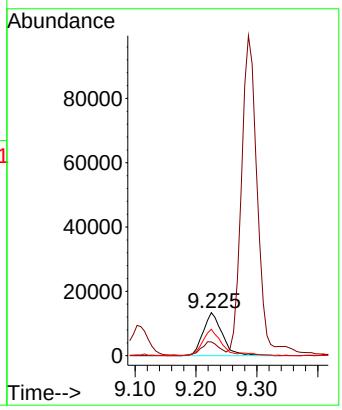


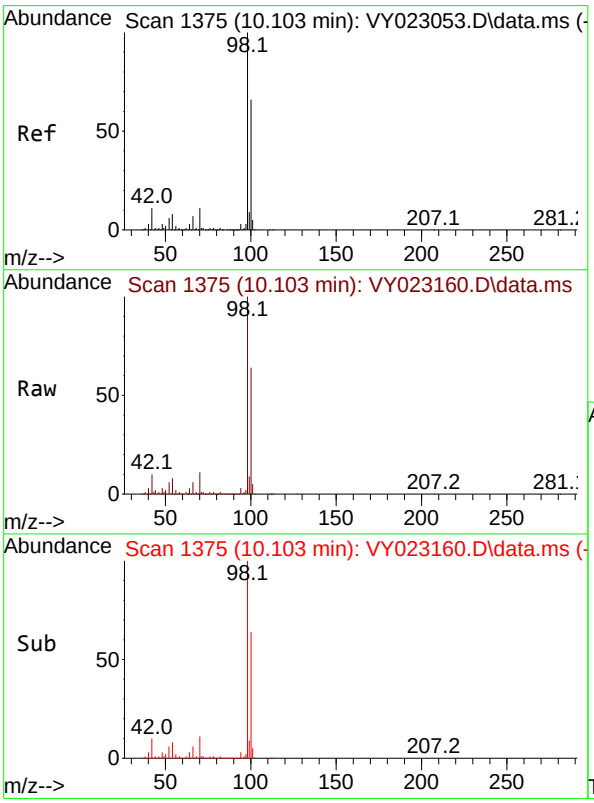

#49
1,4-Dioxane
Concen: 946.444 ug/l
RT: 9.225 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 88 Resp: 29199

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 29.7 | 24.3 | 36.5 |
| 58 | 57.5 | 55.4 | 83.0 |

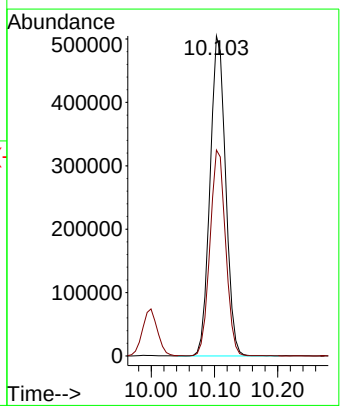


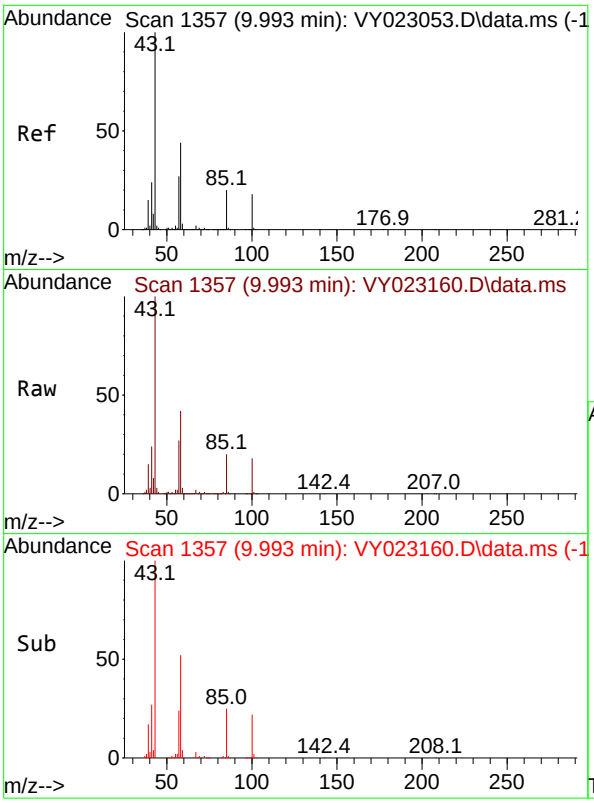




#50
Toluene-d8
Concen: 50.853 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 98 Resp: 864097

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.3 | 52.3 | 78.5 |



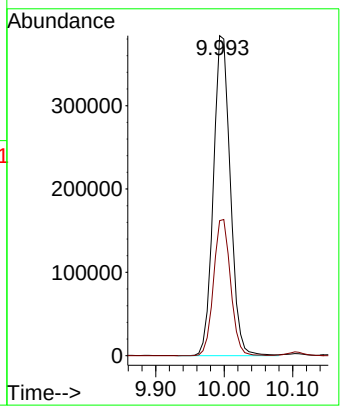


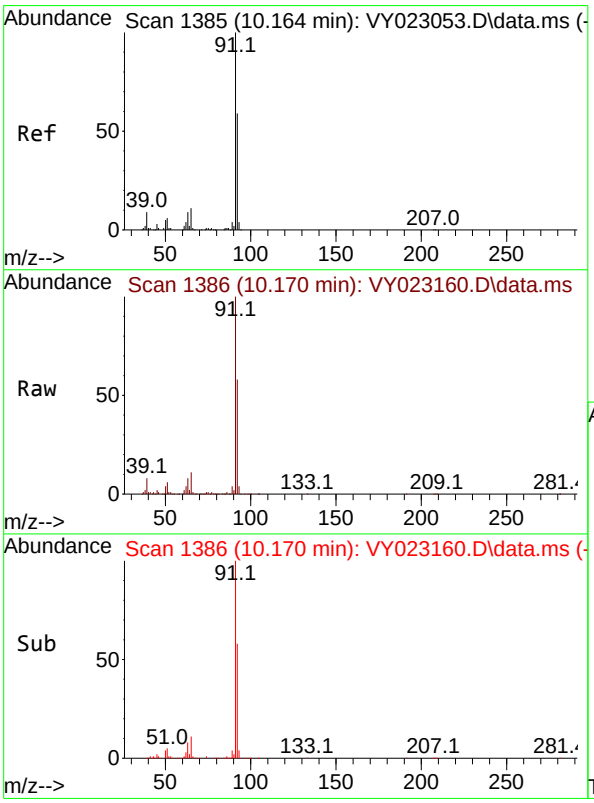

#51
4-Methyl-2-Pentanone
Concen: 231.971 ug/l
RT: 9.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 43 Resp: 656710

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 42.9 | 33.5 | 50.3 |

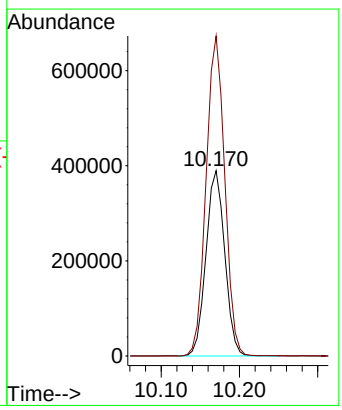


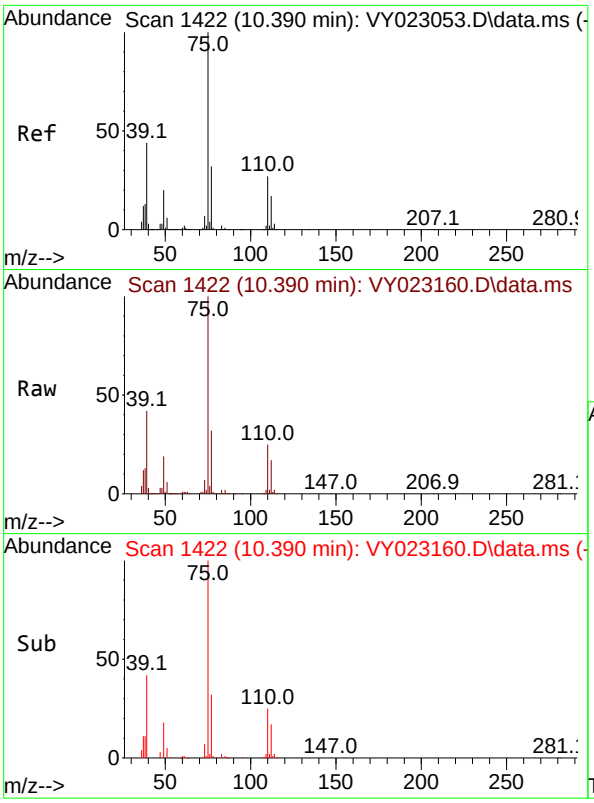




#52
Toluene
Concen: 51.179 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 92 Resp: 647611

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 171.9 | 136.4 | 204.6 |



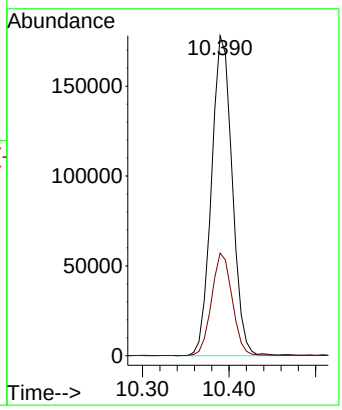


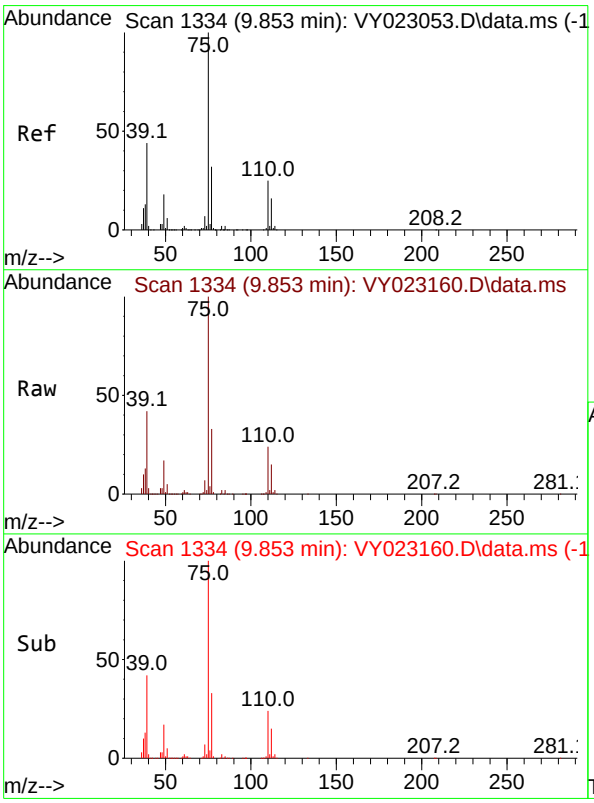

#53
t-1,3-Dichloropropene
Concen: 48.297 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 75 Resp: 296104

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.0 | 25.7 | 38.5 |

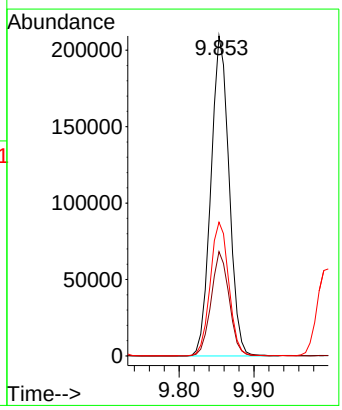


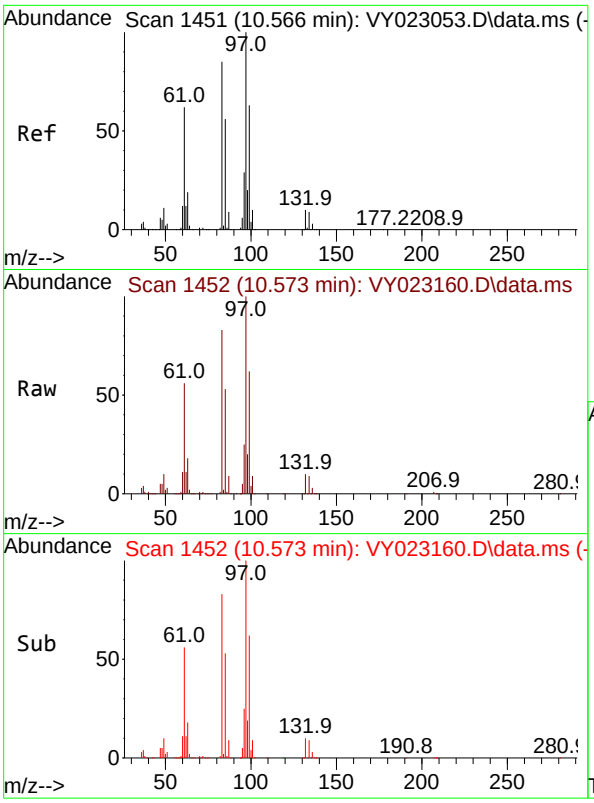




#54
cis-1,3-Dichloropropene
Concen: 48.751 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 75 Resp: 353426

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.6 | 25.4 | 38.0 |
| 39 | 41.7 | 35.6 | 53.4 |



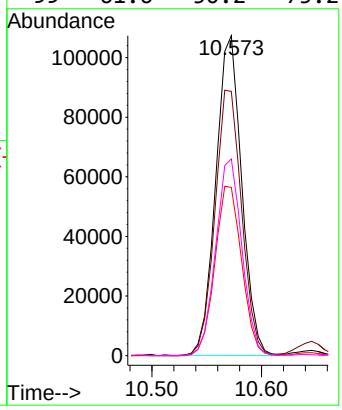


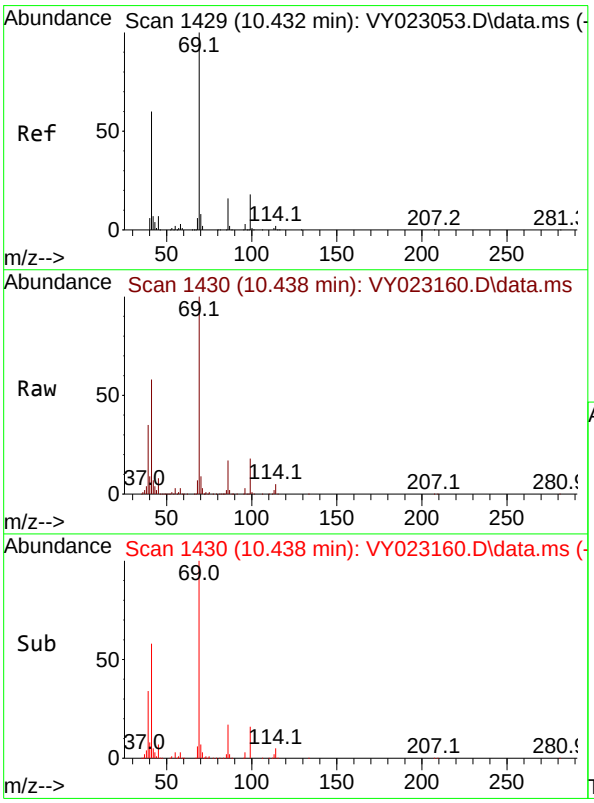

#55
1,1,2-Trichloroethane
Concen: 50.180 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 97 Resp: 176672

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 82.7 | 67.7 | 101.5 |
| 85 | 52.7 | 44.5 | 66.7 |
| 99 | 61.6 | 50.2 | 75.2 |

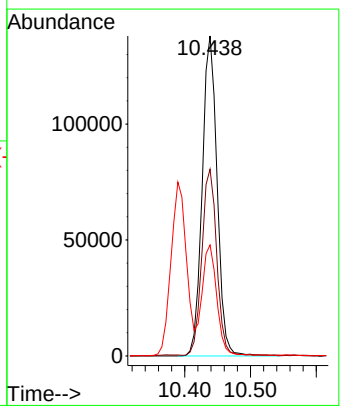


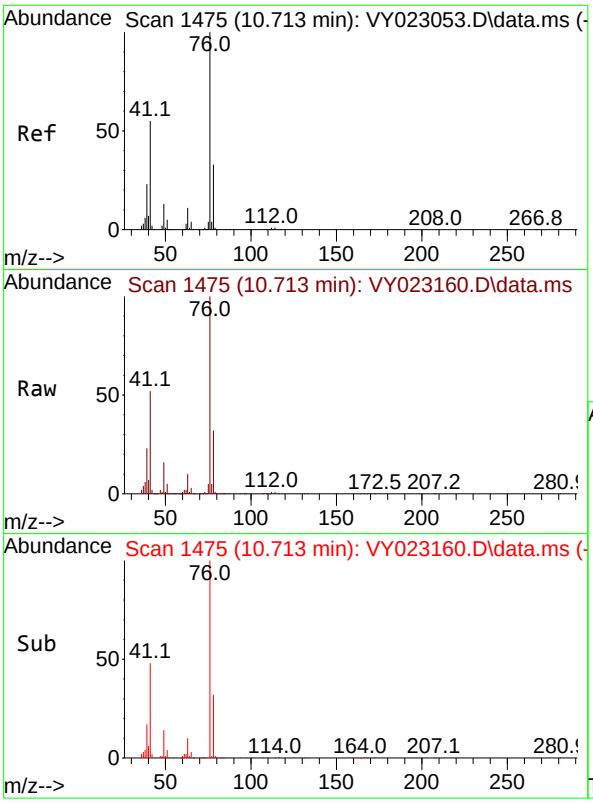




#56
Ethyl methacrylate
Concen: 48.375 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 69 Resp: 217938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 58.3 | 48.6 | 72.8 |
| 39 | 34.0 | 27.0 | 40.4 |



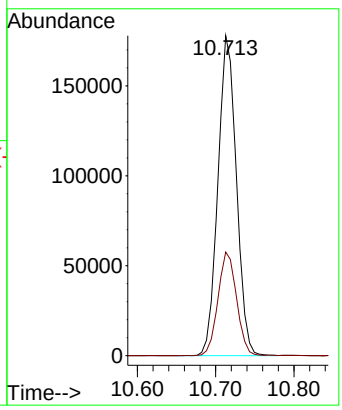


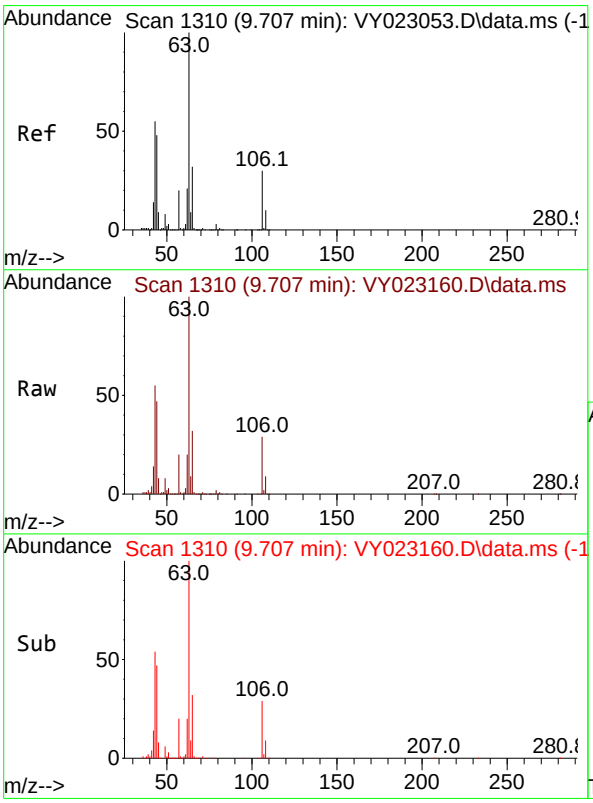

#57
1,3-Dichloropropane
Concen: 48.952 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 76 Resp: 292293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.6 | 26.0 | 39.0 |

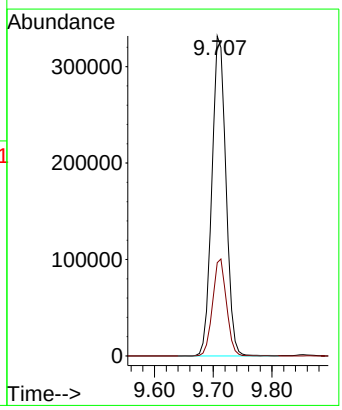


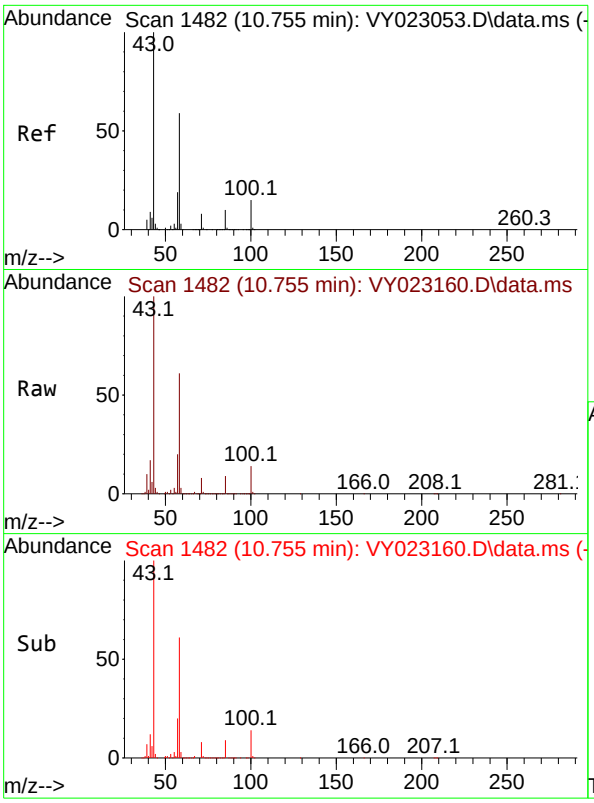




#58
2-Chloroethyl Vinyl ether
Concen: 259.330 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 63 Resp: 551100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 29.9 | 23.2 | 34.8 |



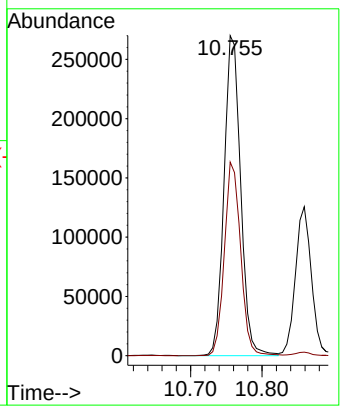


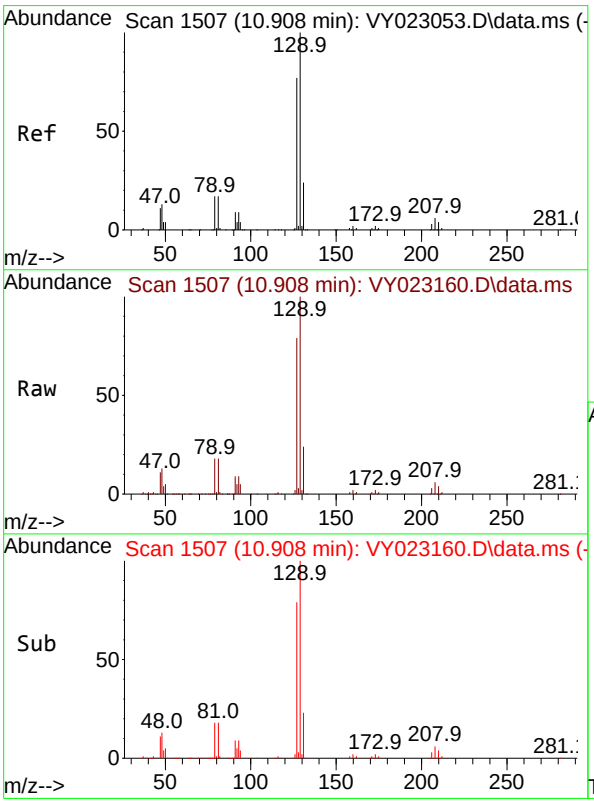

#59
2-Hexanone
Concen: 225.681 ug/l
RT: 10.755 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 43 Resp: 435049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 59.3 | 29.5 | 88.5 |

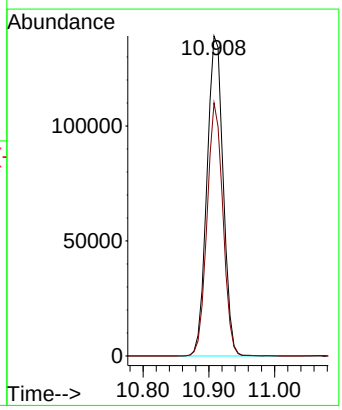


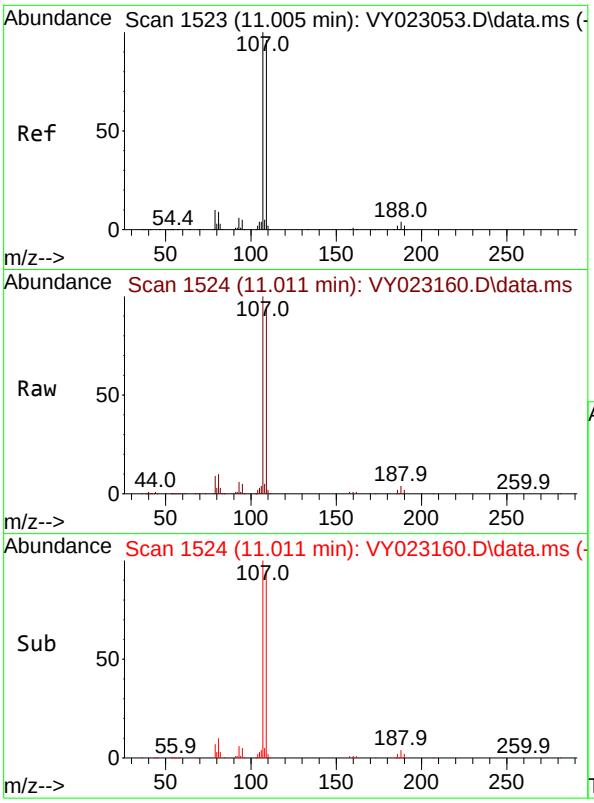




#60
Dibromochloromethane
Concen: 51.365 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:129 Resp: 238623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.3 | 38.5 | 115.5 |



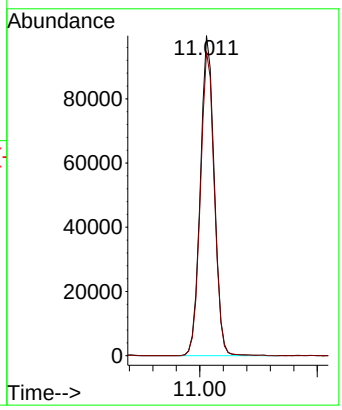


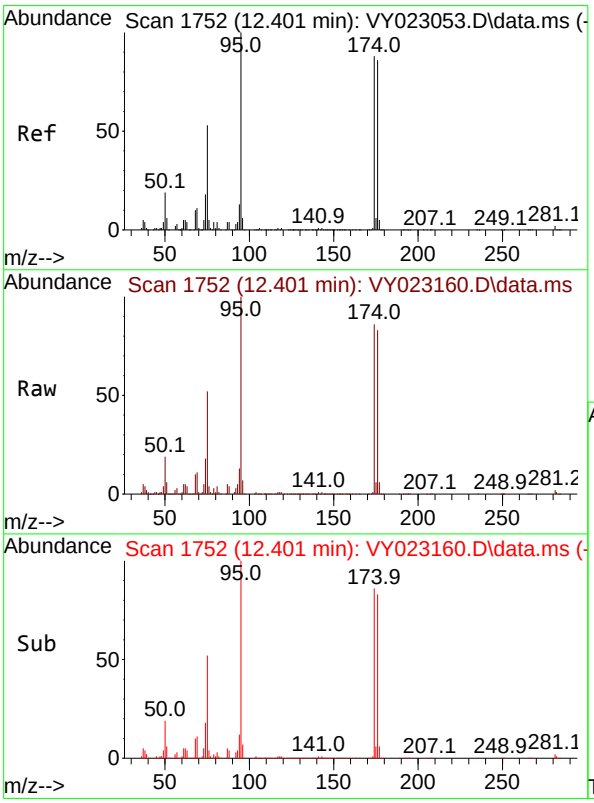

#61
1,2-Dibromoethane
Concen: 49.588 ug/l
RT: 11.011 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:107 Resp: 164095

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 95.0 | 75.6 | 113.4 |

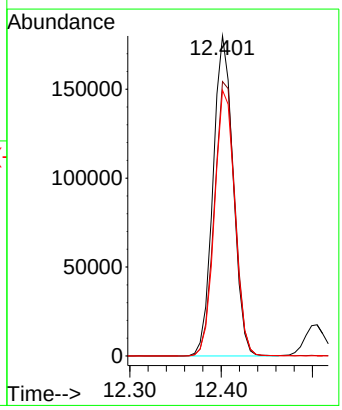


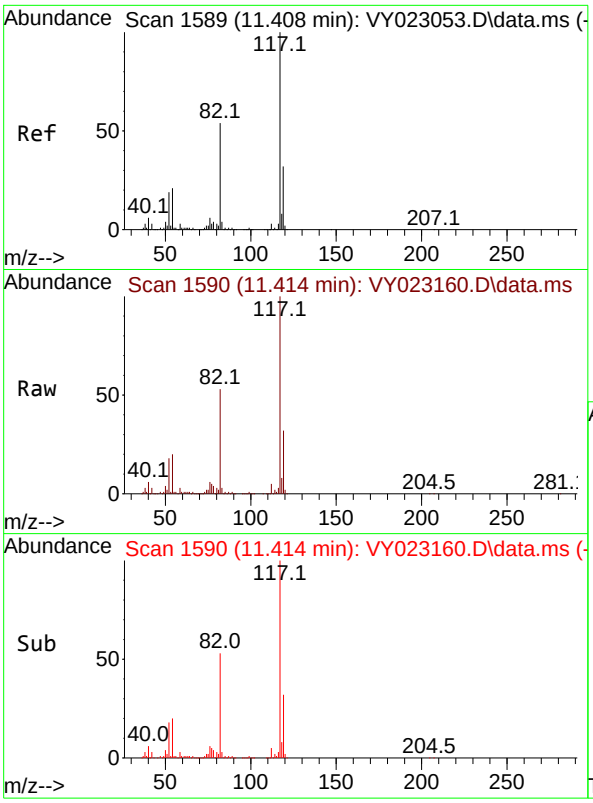




#62
4-Bromofluorobenzene
Concen: 50.308 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 95 Resp: 274917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 87.9 | 0.0 | 171.6 |
| 176 | 84.1 | 0.0 | 167.6 |



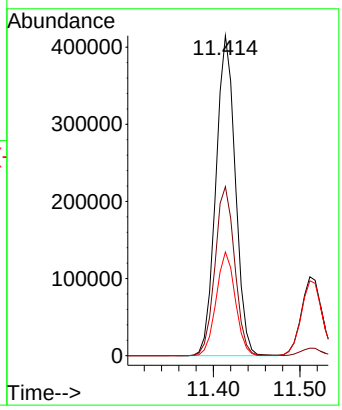


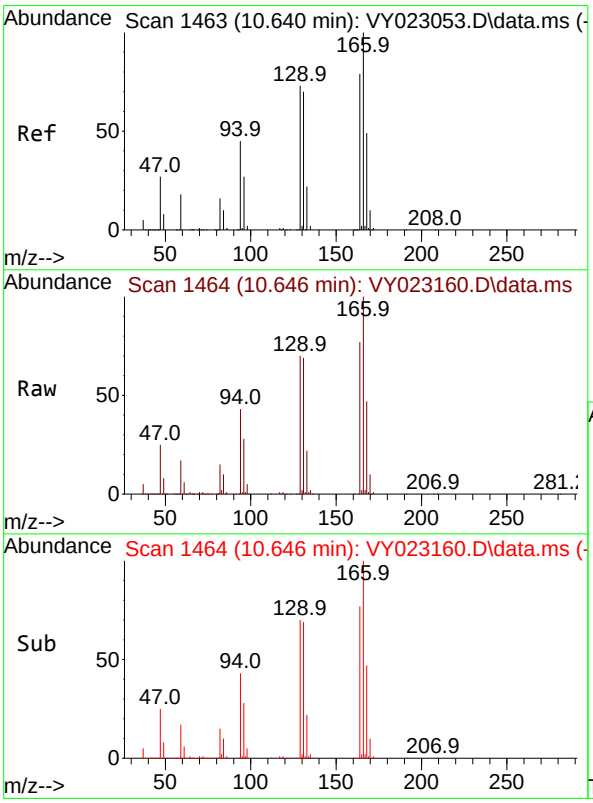

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:117 Resp: 647238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 52.8 | 43.4 | 65.0 |
| 119 | 32.4 | 25.6 | 38.4 |

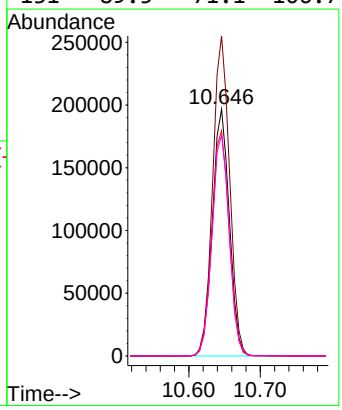


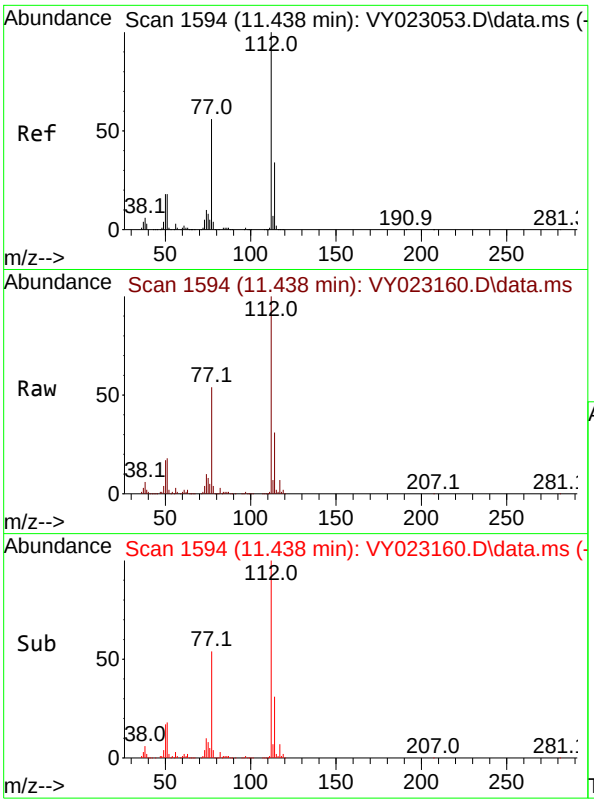




#64
Tetrachloroethene
Concen: 56.055 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:164 Resp: 323963

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 129.7 | 101.1 | 151.7 |
| 129 | 91.3 | 74.0 | 111.0 |
| 131 | 89.5 | 71.1 | 106.7 |



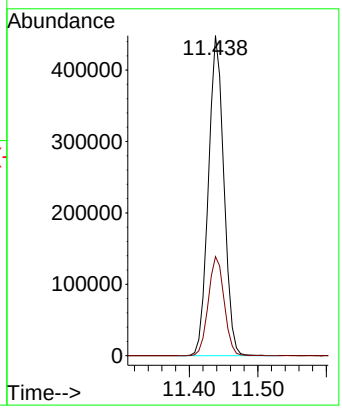


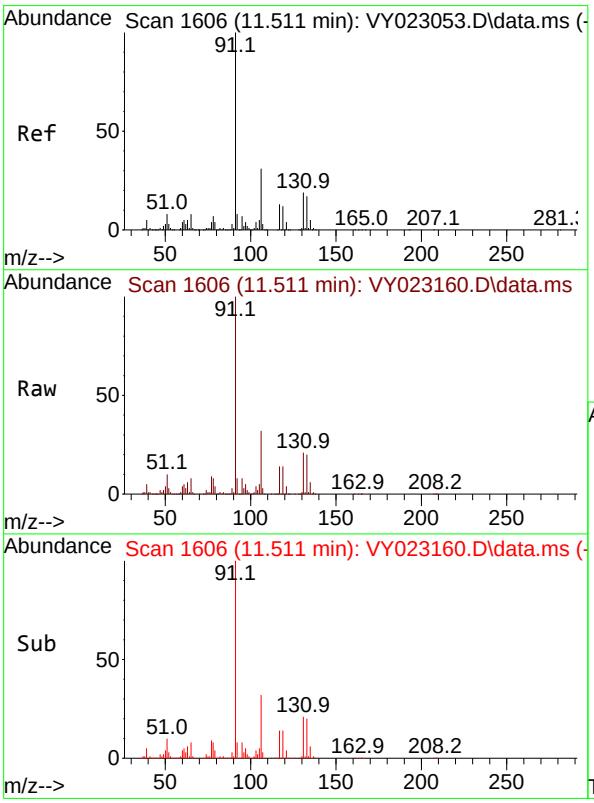

#65
Chlorobenzene
Concen: 50.434 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:112 Resp: 704107

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.0 | 27.0 | 40.4 |

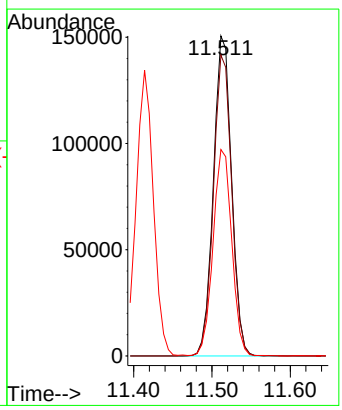


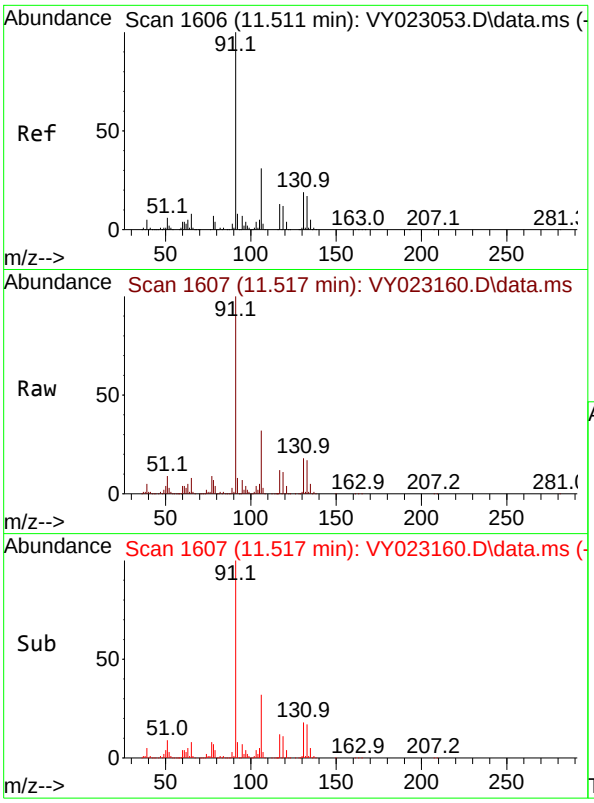




#66
1,1,1,2-Tetrachloroethane
Concen: 51.411 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:131 Resp: 243596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.2 | 46.9 | 140.6 |
| 119 | 66.4 | 33.2 | 99.6 |



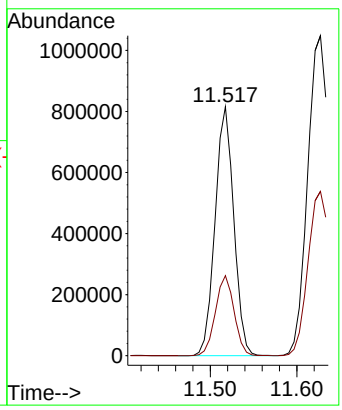


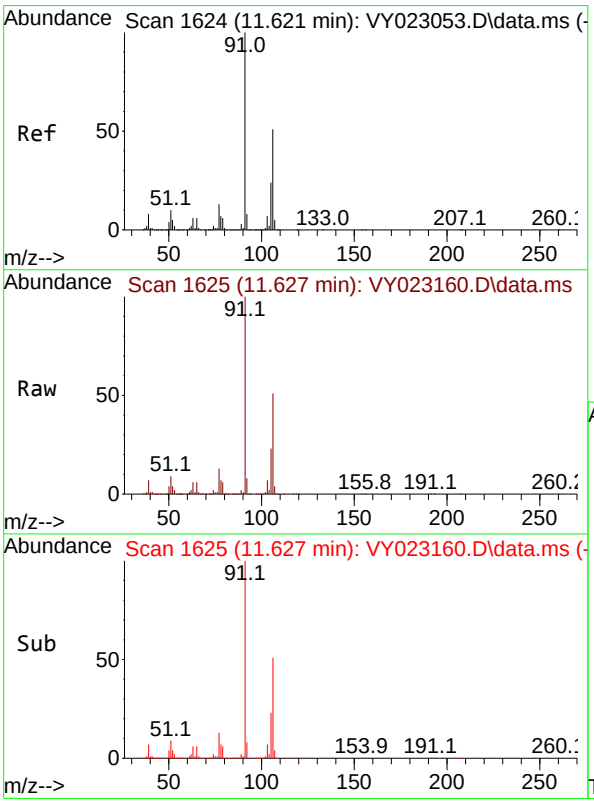

#67
Ethyl Benzene
Concen: 50.888 ug/l
RT: 11.517 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 91 Resp: 1222605

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 32.1 | 25.0 | 37.4 |

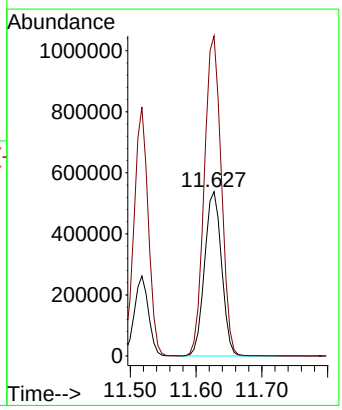


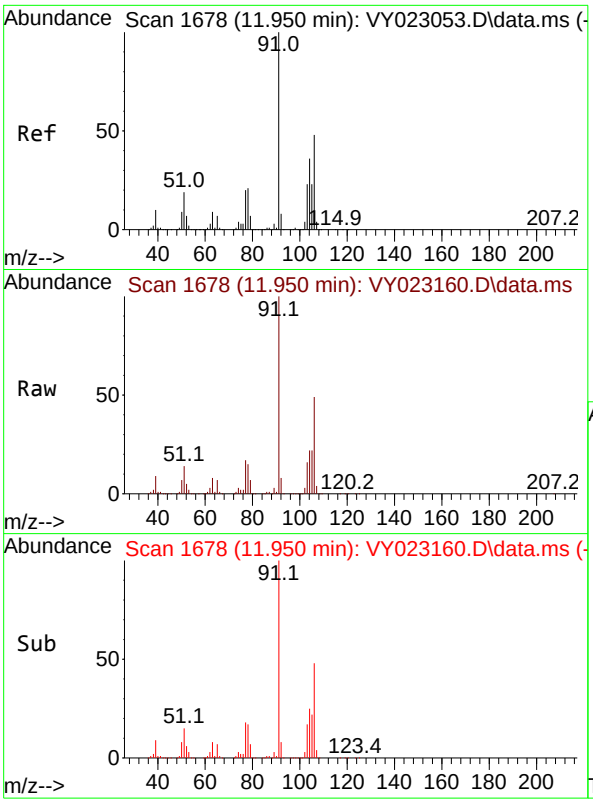




#68
m/p-Xylenes
Concen: 103.051 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:106 Resp: 966978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 194.8 | 158.6 | 238.0 |



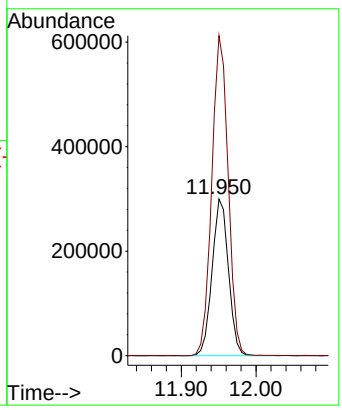


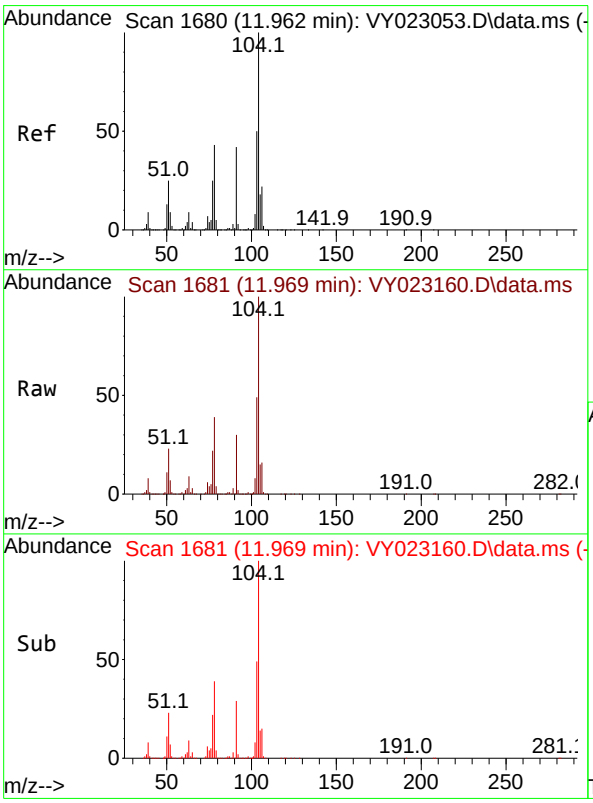

#69
o-Xylene
Concen: 51.799 ug/l
RT: 11.950 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:106 Resp: 455236

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 204.7 | 103.2 | 309.4 |

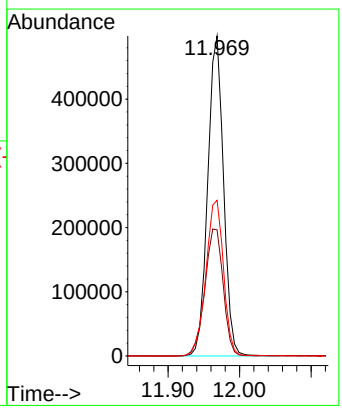


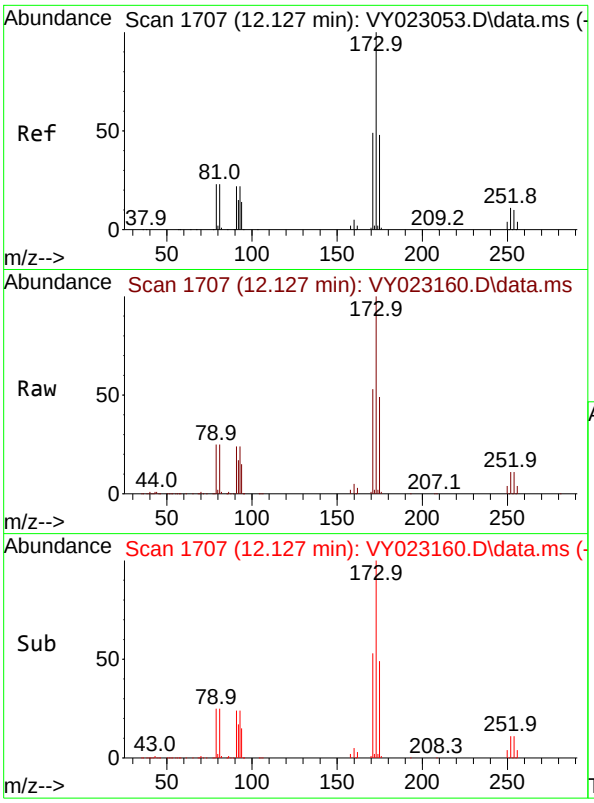




#70
Styrene
Concen: 53.132 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:104 Resp: 763639

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 46.1 | 38.5 | 57.7 |
| 103 | 54.4 | 43.7 | 65.5 |



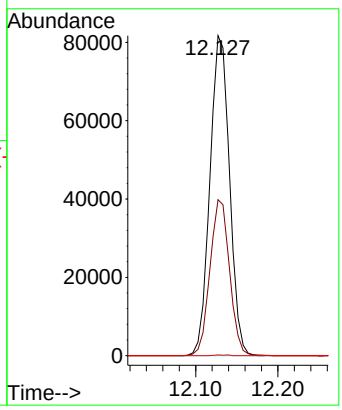


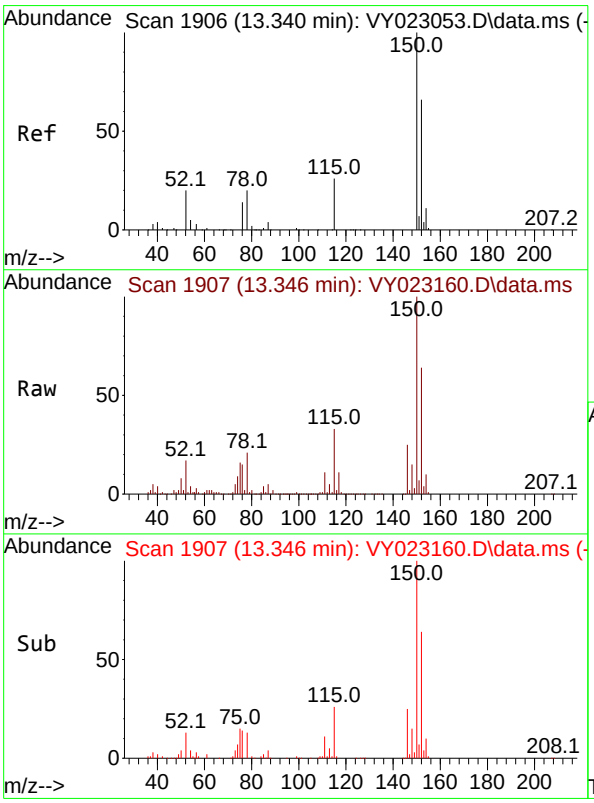

#71
Bromoform
Concen: 48.980 ug/l
RT: 12.127 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:173 Resp: 135638

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.5 | 23.9 | 71.7 |
| 254 | 0.2 | 0.1 | 0.1# |

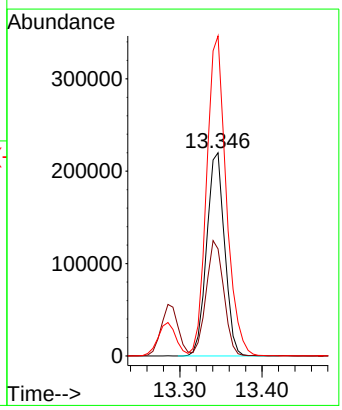


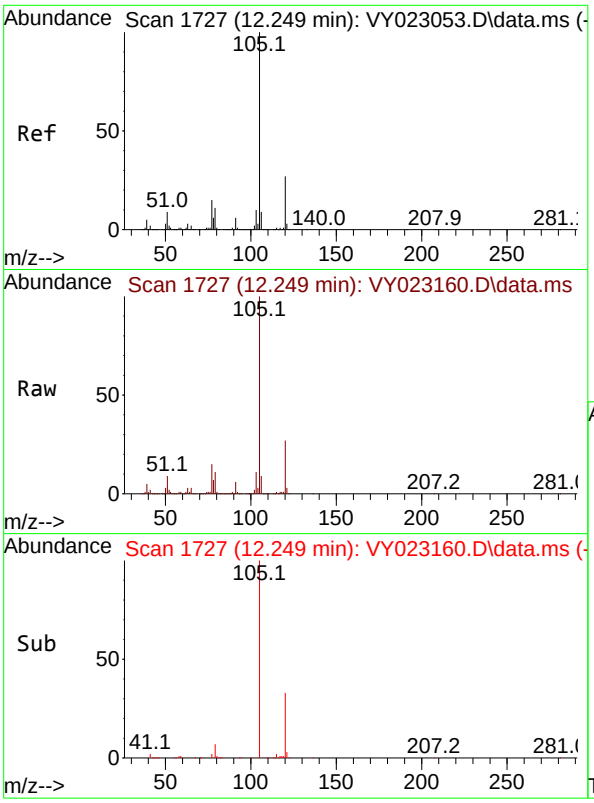




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:152 Resp: 333557

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 55.8 | 28.2 | 84.6 |
| 150 | 171.6 | 0.0 | 348.0 |



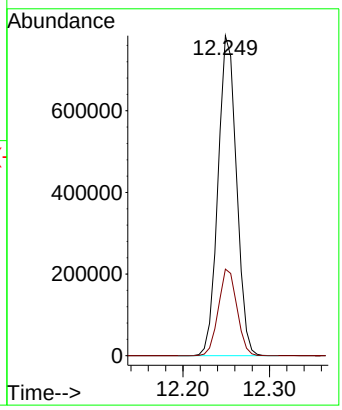


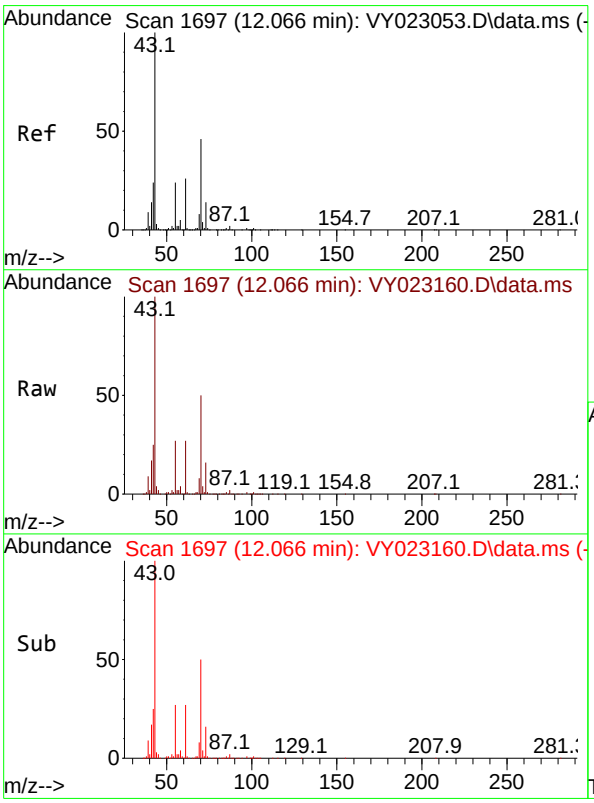

#73
Isopropylbenzene
Concen: 49.330 ug/l
RT: 12.249 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:105 Resp: 1161331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.1 | 13.4 | 40.2 |

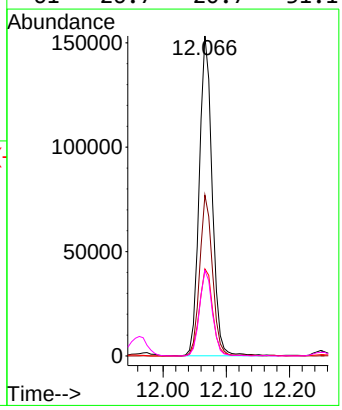


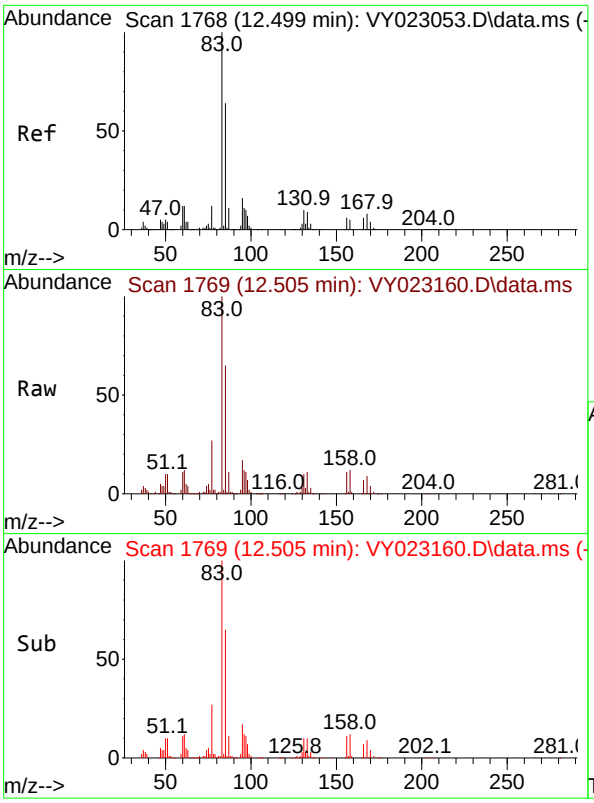




#74
N-amyl acetate
Concen: 43.613 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 43 Resp: 217737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 49.5 | 37.5 | 56.3 |
| 55 | 28.2 | 20.7 | 31.1 |
| 61 | 26.7 | 20.7 | 31.1 |



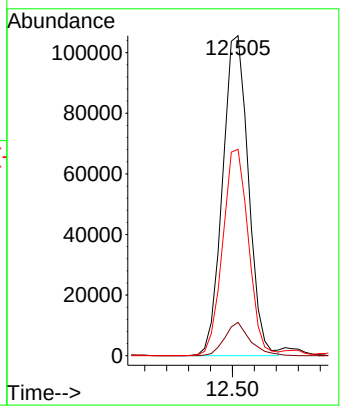


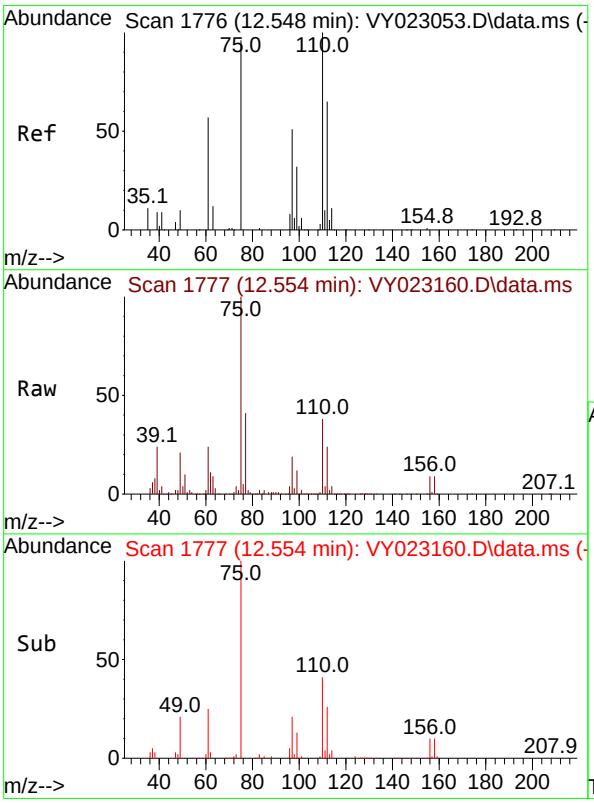

#75
1,1,2,2-Tetrachloroethane
Concen: 43.025 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 83 Resp: 172951

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.2 | 5.1 | 15.3 |
| 85 | 64.4 | 31.8 | 95.3 |

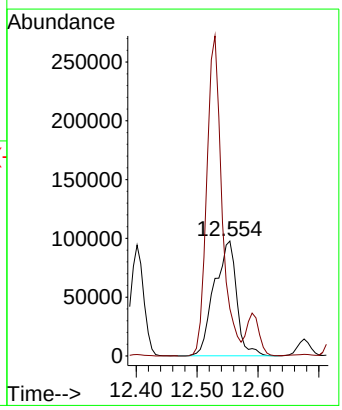


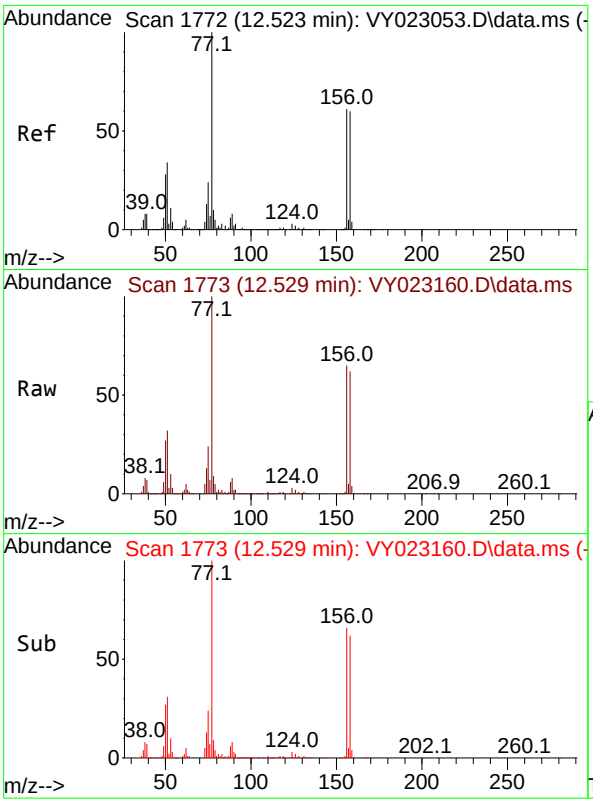




#76
1,2,3-Trichloropropane
Concen: 77.236 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 75 Resp: 248637

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |



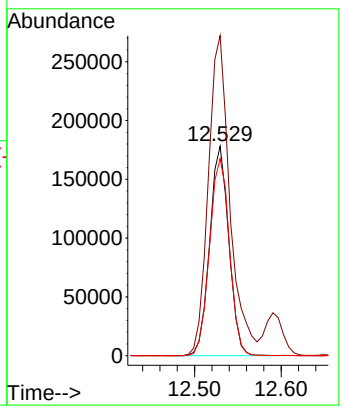


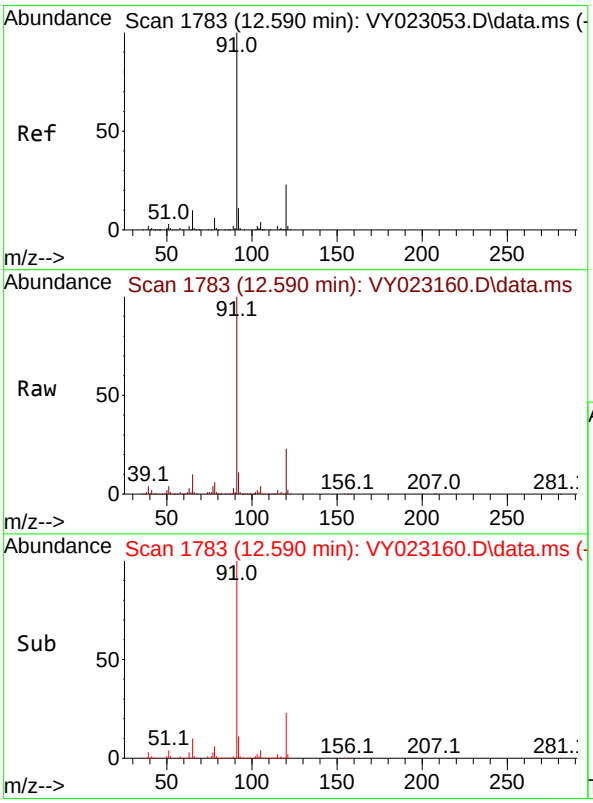

#77
Bromobenzene
Concen: 48.690 ug/l
RT: 12.529 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:156 Resp: 273466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 172.9 | 88.1 | 264.4 |
| 158 | 97.9 | 48.0 | 144.0 |

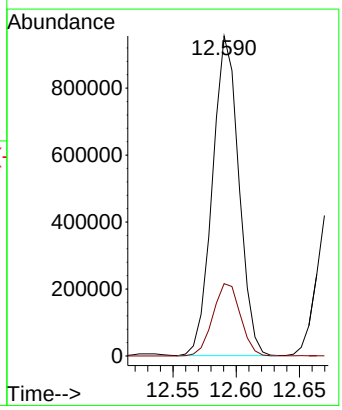


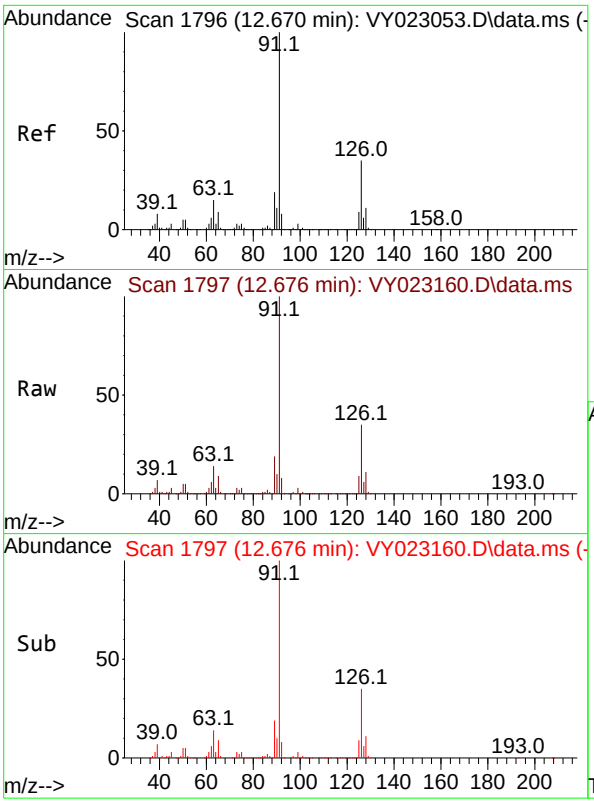




#78
n-propylbenzene
Concen: 49.502 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 91 Resp: 1387452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 23.5 | 11.5 | 34.5 |



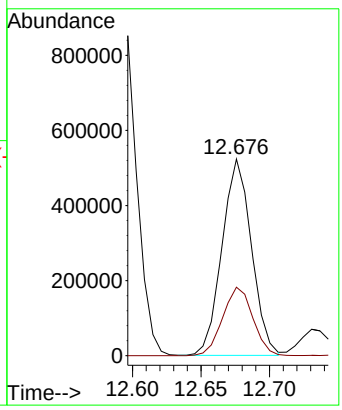


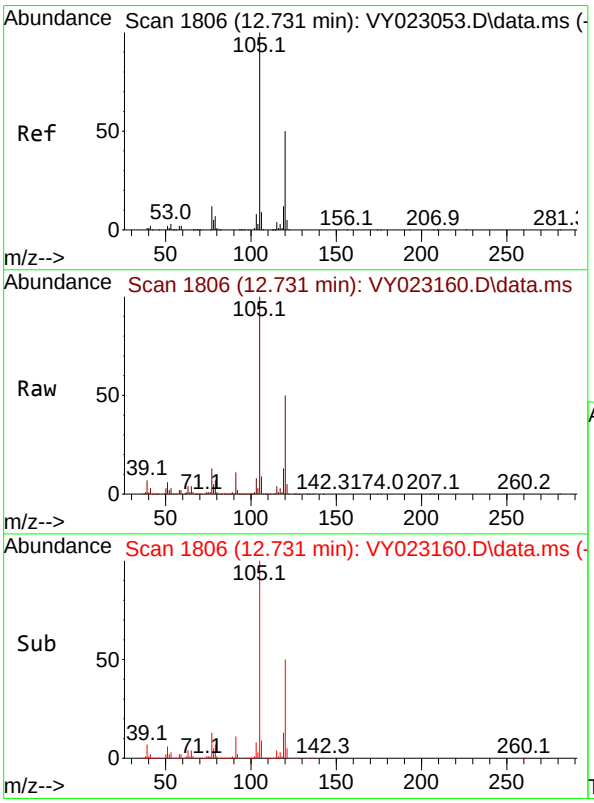

#79
2-Chlorotoluene
Concen: 48.829 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 91 Resp: 784149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.7 | 17.4 | 52.3 |

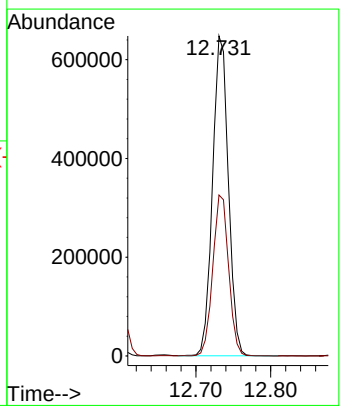


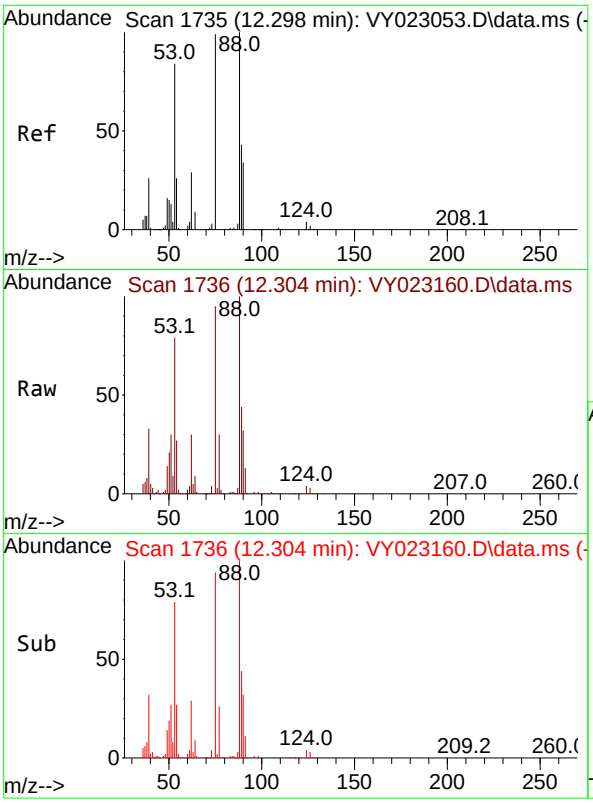




#80
1,3,5-Trimethylbenzene
Concen: 50.180 ug/l
RT: 12.731 min Scan# 1806
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:105 Resp: 954748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 50.5 | 24.8 | 74.4 |



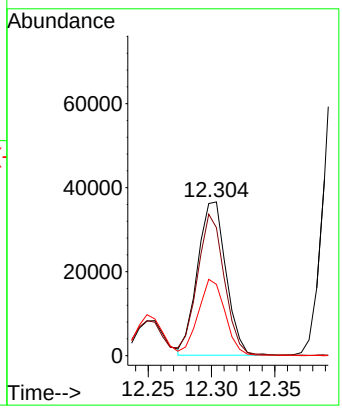


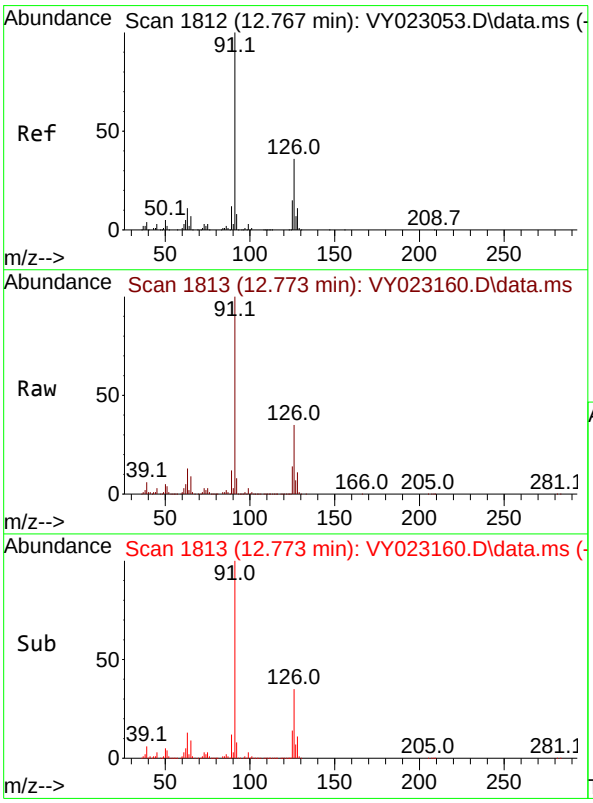

#81
trans-1,4-Dichloro-2-butene
Concen: 43.134 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 75 Resp: 57362

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 87.5 | 70.8 | 106.2 |
| 89 | 47.4 | 38.1 | 57.1 |

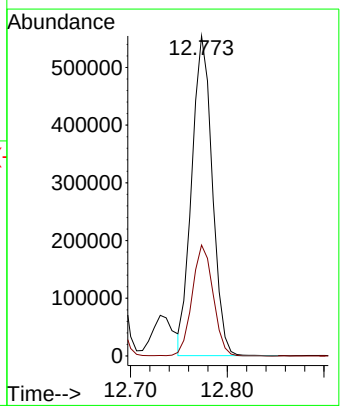


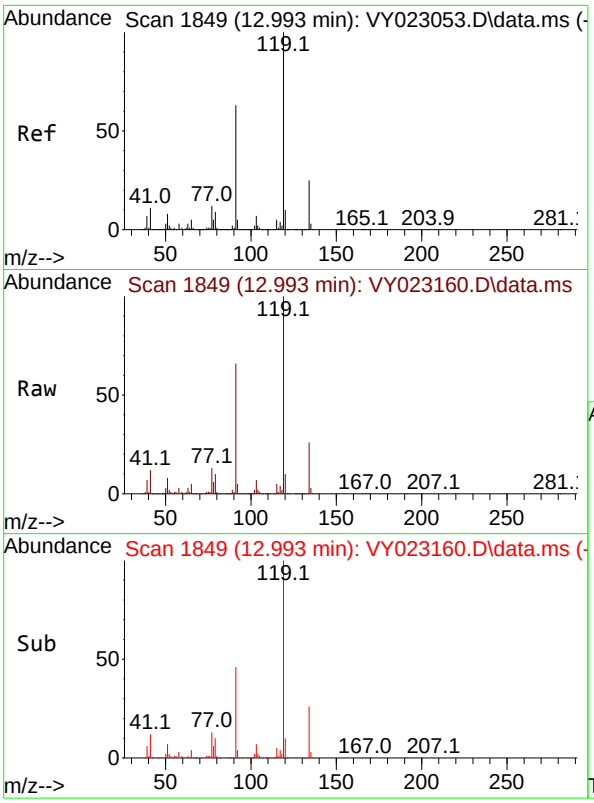




#82
4-Chlorotoluene
Concen: 48.995 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 91 Resp: 816232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.6 | 17.3 | 52.0 |



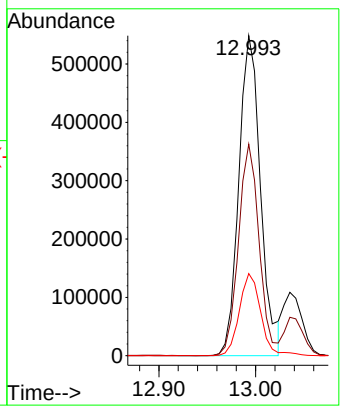


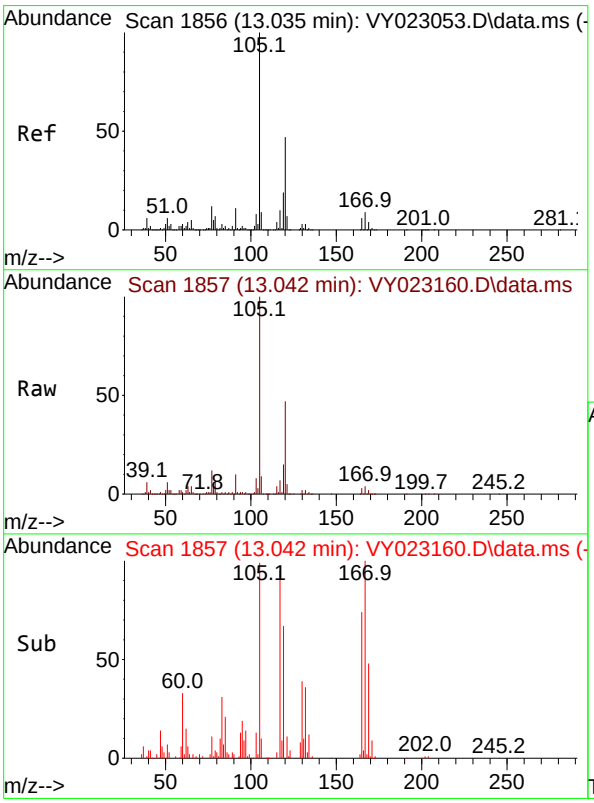

#83
tert-Butylbenzene
Concen: 49.921 ug/l
RT: 12.993 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:119 Resp: 857857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 63.0 | 31.6 | 94.8 |
| 134 | 25.4 | 12.9 | 38.7 |

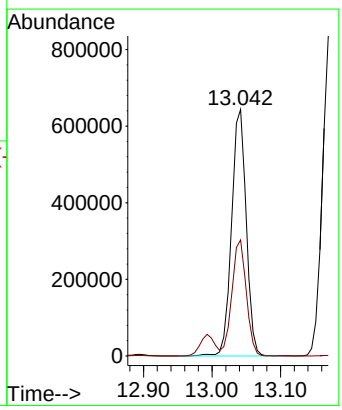


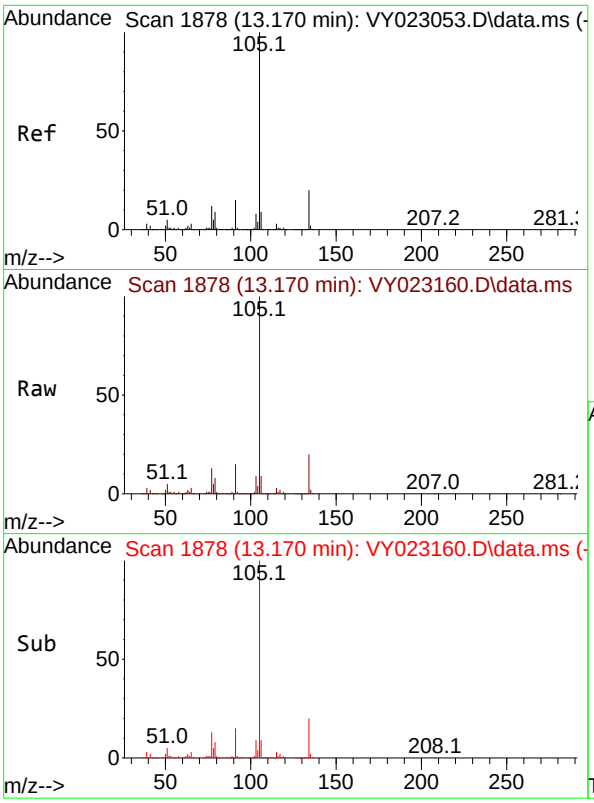




#84
1,2,4-Trimethylbenzene
Concen: 50.510 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:105 Resp: 956661

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.4 | 23.0 | 69.0 |



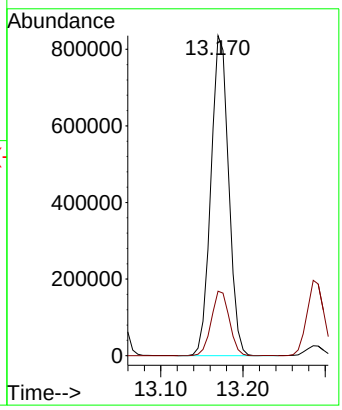


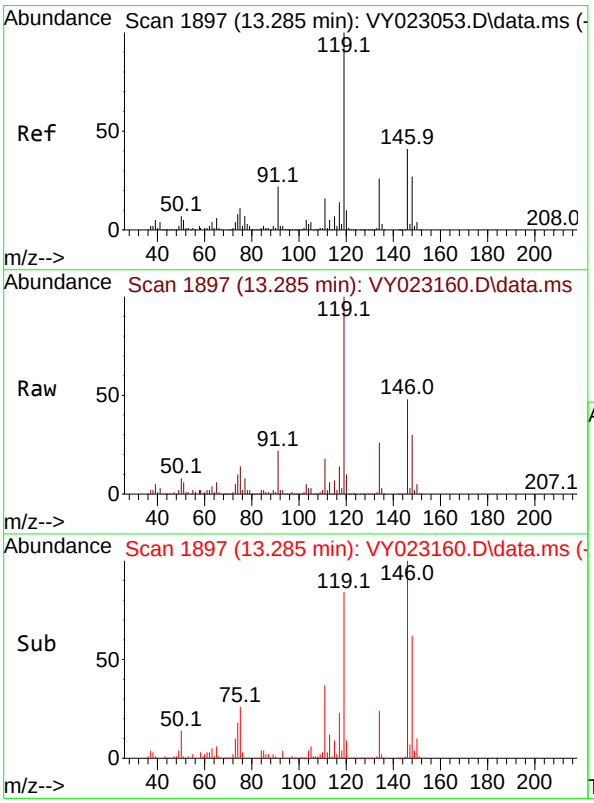

#85
sec-Butylbenzene
Concen: 49.485 ug/l
RT: 13.170 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:105 Resp: 1249164

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.5 | 10.2 | 30.4 |

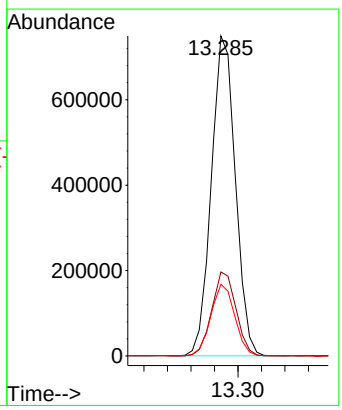


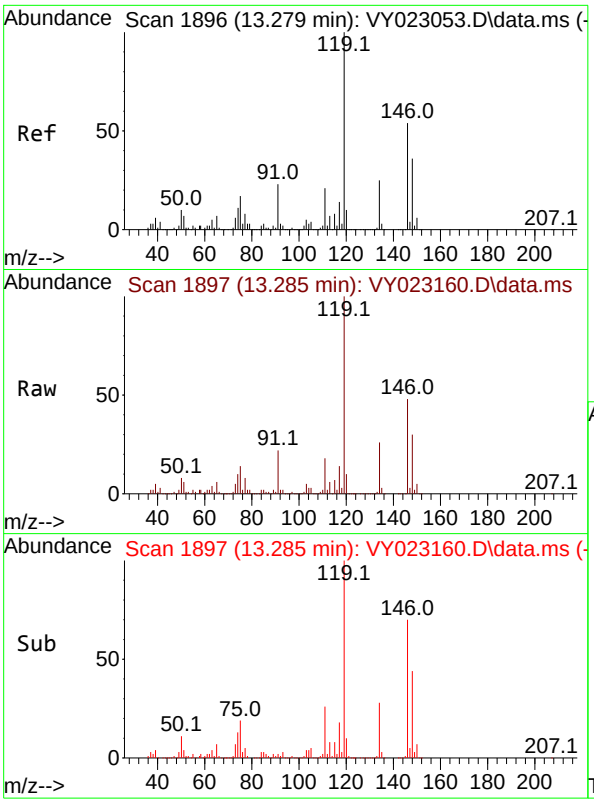




#86
p-Isopropyltoluene
Concen: 50.842 ug/l
RT: 13.285 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:119 Resp: 1065308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.5 | 13.2 | 39.6 |
| 91 | 22.3 | 11.3 | 33.8 |



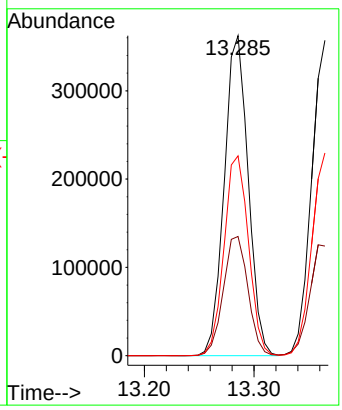


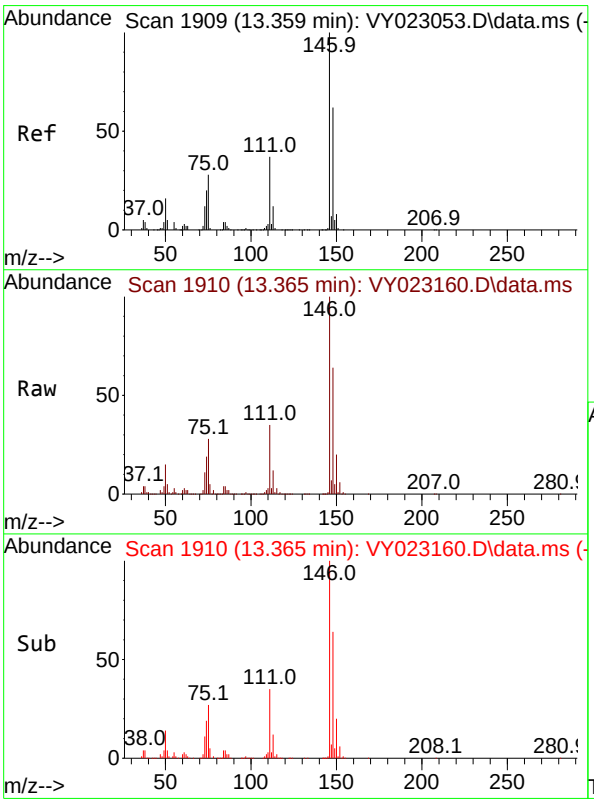

#87
1,3-Dichlorobenzene
Concen: 49.644 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:146 Resp: 549837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.5 | 19.6 | 58.7 |
| 148 | 63.8 | 32.5 | 97.5 |

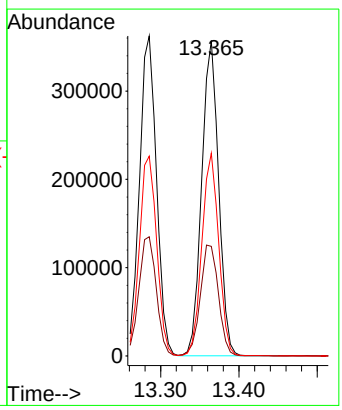


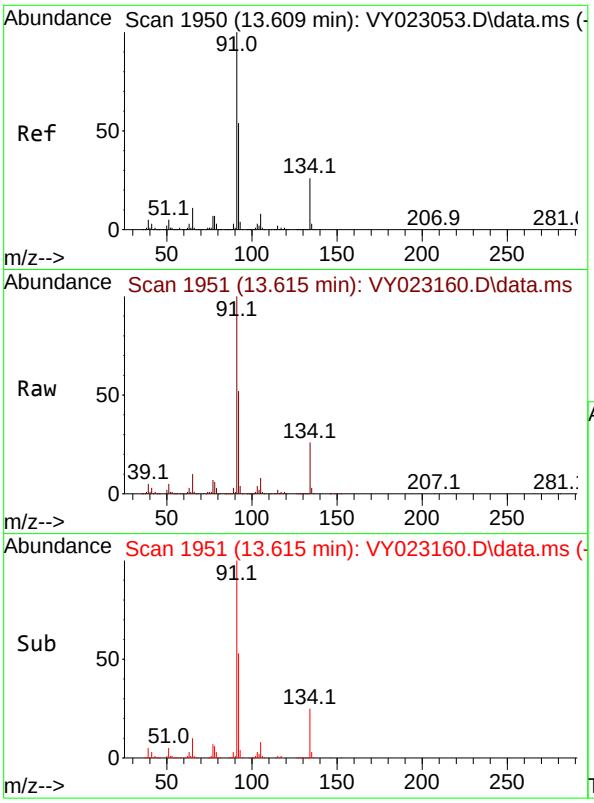




#88
1,4-Dichlorobenzene
Concen: 48.611 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:146 Resp: 534086

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 37.7 | 19.1 | 57.1 |
| 148 | 64.3 | 31.6 | 94.7 |



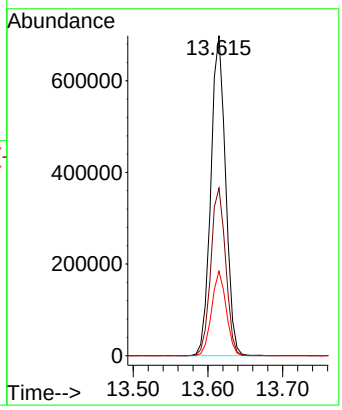


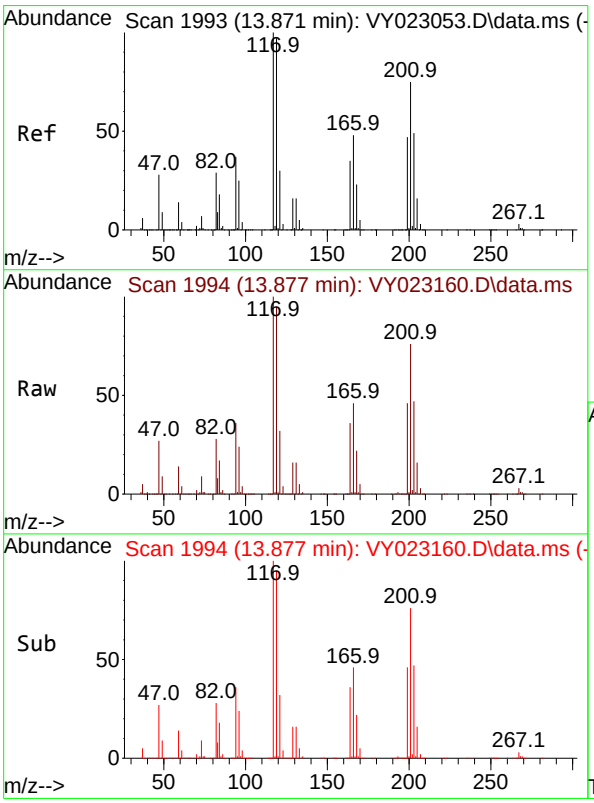

#89
n-Butylbenzene
Concen: 49.746 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 91 Resp: 957330

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.9 | 26.9 | 80.7 |
| 134 | 26.1 | 13.2 | 39.5 |

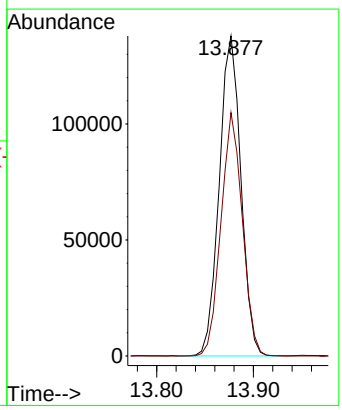


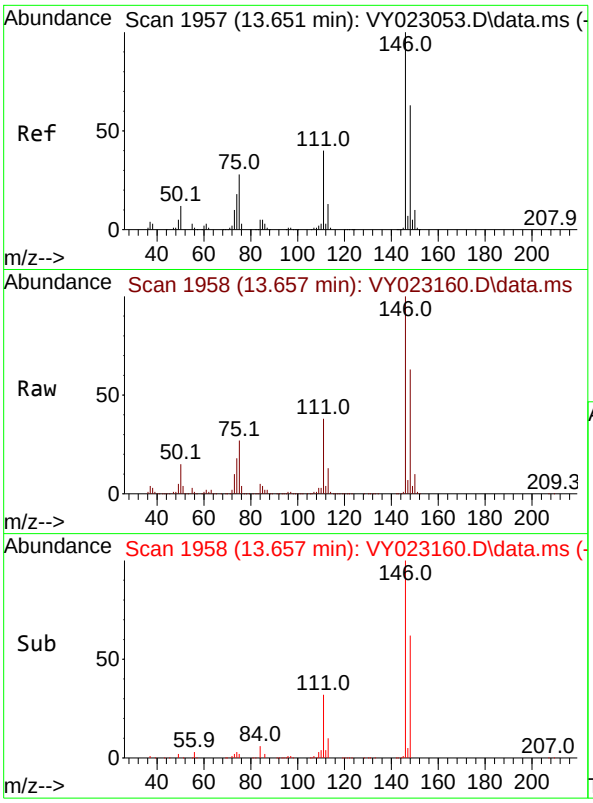




#90
Hexachloroethane
Concen: 50.008 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:117 Resp: 214503

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 75.0 | 38.4 | 115.1 |



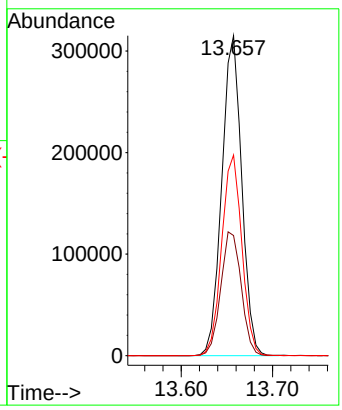


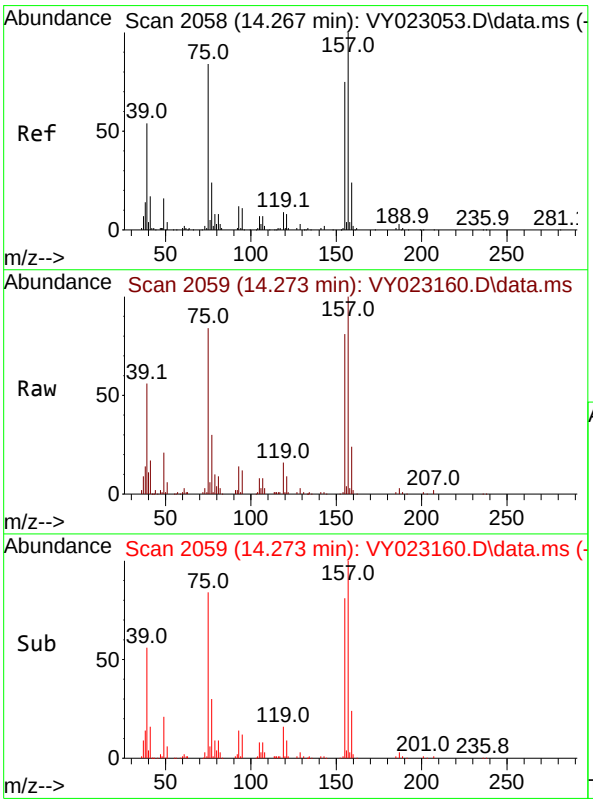

#91
1,2-Dichlorobenzene
Concen: 49.177 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:146 Resp: 477680

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.9 | 20.3 | 60.8 |
| 148 | 63.5 | 32.2 | 96.6 |

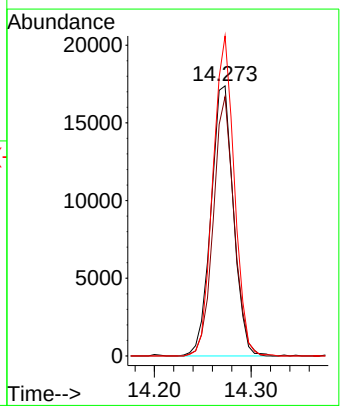


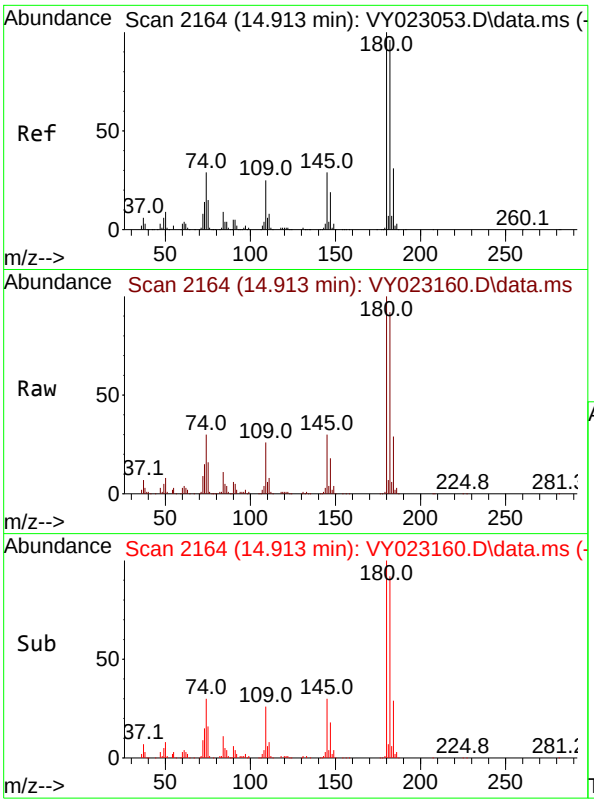




#92
1,2-Dibromo-3-Chloropropane
Concen: 44.839 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion: 75 Resp: 28063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 88.7 | 43.9 | 131.6 |
| 157 | 112.5 | 57.2 | 171.6 |



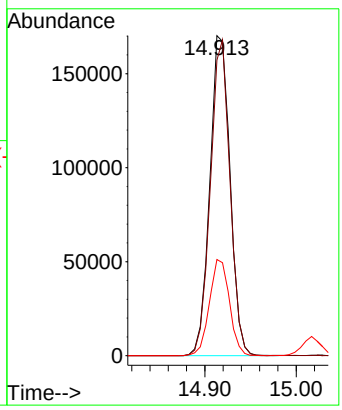


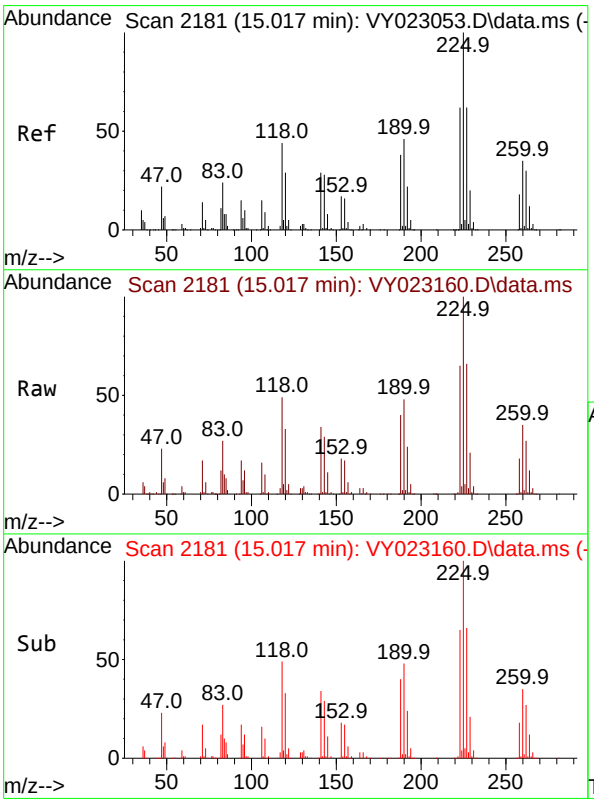

#93
1,2,4-Trichlorobenzene
Concen: 45.553 ug/l
RT: 14.913 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:180 Resp: 261664

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.4 | 46.8 | 140.4 |
| 145 | 29.7 | 14.4 | 43.4 |

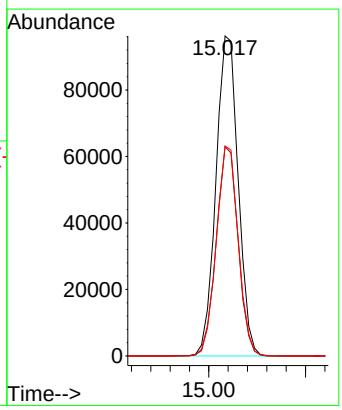


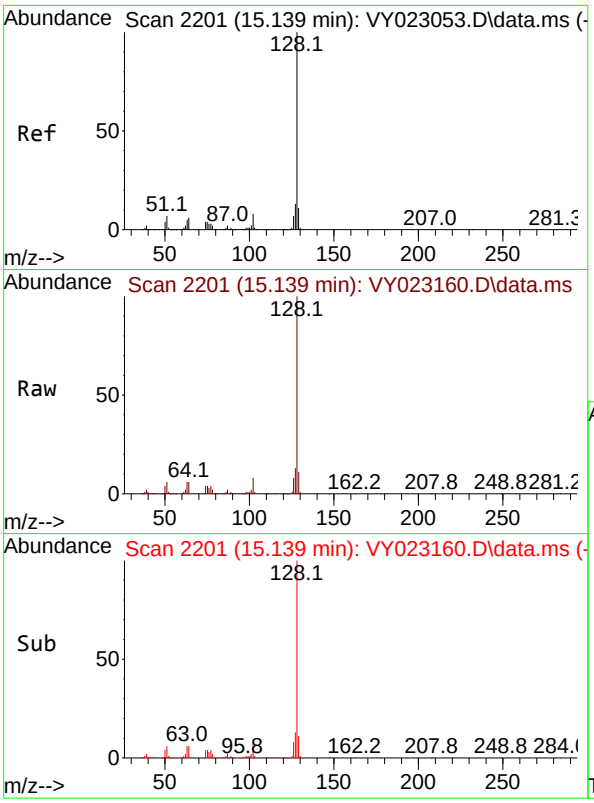




#94
Hexachlorobutadiene
Concen: 45.434 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:225 Resp: 153359

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 64.2 | 31.3 | 93.8 |
| 227 | 64.6 | 31.5 | 94.5 |



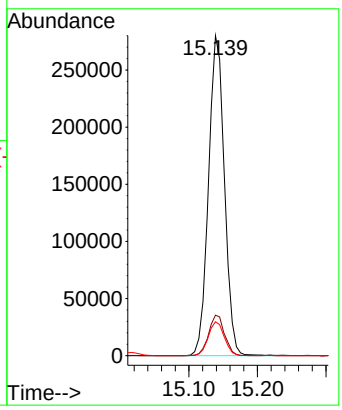


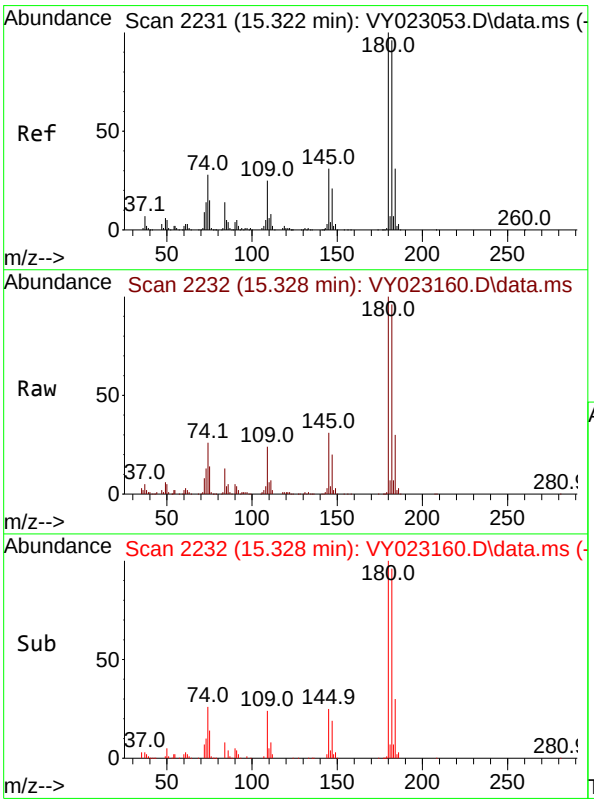

#95
Naphthalene
Concen: 46.168 ug/l
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:128 Resp: 452211

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.8 | 10.4 | 15.6 |
| 129 | 10.7 | 9.0 | 13.4 |




#96
1,2,3-Trichlorobenzene
Concen: 45.311 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. 0.006 min
Lab File: VY023160.D
Acq: 19 Aug 2025 19:08

Tgt Ion:180 Resp: 224276

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.6 | 47.9 | 143.7 |
| 145 | 31.5 | 15.9 | 47.7 |