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

# DATA PACKAGE

## VOLATILE ORGANICS

**PROJECT NAME : REAC COMMODORE**

**TECHLAW CONSULTANTS, INC**

**14840 Conference Center Dr.**

**Suite #200**

**Chantily, VA - 20151**

**Phone No: 703-818-3205**

**ORDER ID : Q3195**

**ATTENTION : Jonathan Dziekan**

**Laboratory Certification ID # 20012**

Table Of Contents for Q3195


1) VOLATILES DATA 2

2) Signature Page 4

3) Case Narrative 5

4) Qualifier Page 7

5) Conformance/Non Conformance 8

6) QA Checklist 10

7) Chronicle 11

8) Hit Summary 14

9) QC Data Summary For VOC-TCLVOA-10 19

- 9.1) Deuterated Monitoring Compound Summary 20
- 9.2) MS/MSD Summary 23
- 9.3) LCS/LCSD Summary 27
- 9.4) Method Blank Summary 33
- 9.5) GS/MS Tune Summary 36
- 9.6) Internal Standard Area and RT Summary 40

10) Sample Data 46

- 10.1) MOS-18-092225 47
- 10.2) MW-1-091725 63
- 10.3) MW-3-091525 80
- 10.4) MW-4-091625 97
- 10.5) MW-6-091625 112
- 10.6) MW-19D-092225 127
- 10.7) MW-19M-092325 143
- 10.8) MW-21M-091925 156
- 10.9) MW-22-091825 170
- 10.10) MW-23-092325 184
- 10.11) MW-24-091925 199
- 10.12) MW-26-091925 215
- 10.13) MW-26-091925-FD 229
- 10.14) MW-29-092325 243
- 10.15) MW-31S-091825 258
- 10.16) MW-31S-091825DL 275
- 10.17) MW-31D-091825 285
- 10.18) MW-31D-091825DL 302
- 10.19) MW-31D-091825-FD 314

10.20) MW-31D-091825-FDDL 331
10.21) MW-32S-091725 342
10.22) MW-33D-091725 356
10.23) RW-1-092425 372
10.24) EB-01-091925 386
10.25) EB-02-092225 399
10.26) FB-01-091925 412
10.27) FB-02-092225 425
10.28) TB-01-091525 438
11) Calibration Data Summary 451
11.1) Initial Calibration Data 452
11.1.1) VV092225 452
11.2) Continued Calibration Data 830
11.2.1) VV039168.D 830
11.2.2) VV039198.D 890
11.2.3) VV039221.D 950
12) QC Sample Data 1010
12.1) Tune Raw Data 1011
12.2) Method Blank Data 1015
12.3) LCS Data 1054
12.4) MS Data 1219
12.5) MSD Data 1274
13) Manual Integration 1329
14) Analytical Runlogs 1334
15) Standard Prep Logs 1347
16) Shipping Document 1437
16.1) Chain Of Custody 1438
16.2) ROC 1441
16.3) Lab Certificate 1442
16.4) Internal COC 1443

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

# Cover Page

**Order ID :** Q3195

**Project ID :** REAC Commodore

**Client :** TechLaw Consultants, Inc

| Lab Sample Number | Client Sample Number |
|---|---|
| Q3195-01 | MOS-18-092225 |
| Q3195-02 | MW-1-091725 |
| Q3195-03 | MW-3-091525 |
| Q3195-04 | MW-4-091625 |
| Q3195-05 | MW-6-091625 |
| Q3195-06 | MW-19D-092225 |
| Q3195-07 | MW-19M-092325 |
| Q3195-08 | MW-21M-091925 |
| Q3195-09 | MW-22-091825 |
| Q3195-10 | MW-23-092325 |
| Q3195-11 | MW-24-091925 |
| Q3195-12 | MW-26-091925 |
| Q3195-13 | MW-26-091925-FD |
| Q3195-14 | MW-29-092325 |
| Q3195-15 | MW-31S-091825 |
| Q3195-16 | MW-31D-091825 |
| Q3195-17 | MW-31D-091825-FD |
| Q3195-18 | MW-32S-091725 |
| Q3195-19 | MW-33D-091725 |
| Q3195-20 | MW-33D-091725MS |
| Q3195-21 | MW-33D-091725MS |
| Q3195-22 | D RW-1-092425 |
| Q3195-23 | EB-01-091925 |
| Q3195-24 | EB-02-092225 |
| Q3195-25 | FB-01-091925 |
| Q3195-26 | FB-02-092225 |
| Q3195-27 | TB-01-091525 |

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

Signature : _____ Date: 10/30/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

# CASE NARRATIVE

**TechLaw Consultants, Inc**
**Project Name: REAC Commodore**
**Project # N/A**
**Order ID # Q3195**
**Test Name: VOC-TCLVOA-10**

**A. Number of Samples and Date of Receipt:**
27 Water samples were received on 09/25/2025.

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

**C. Analytical Techniques:**
The analysis performed on instrument MSVOA_V were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UI. The analysis of VOC-TCLVOA-10 was based on method 8260D.

**D. QA/ QC Samples:**
The Holding Times were met for all analysis.
The Surrogate recoveries were met for all analysis.
The Internal Standards Areas were met for all analysis.
The Retention Times were met for all analysis.

The MS {Q3195-20MS} with File ID: VV039237.D recoveries met the requirements for all compounds except for Toluene[117%] due to matrix interference.

The MSD recoveries met the requirements for all compounds.
The RPD were met for all analysis.

The Blank Spike for {VV0929WBS01} with File ID: VV039224.D met requirements for all compounds except for 1,2-Dibromoethane[111%], 4-Methyl-2-Pentanone[120%], Bromoform[118%], m/p-Xylenes[111%] and Toluene[111%] are is failing high but no positive hit in associate sample therefore no corrective action taken.

The Blank analysis did not indicate the presence of lab contamination.

The %RSD is greater than 20% in the Initial Calibration method (82V092225W.M) for 2-Hexanone passing on Linear regression and Chloroethane, Acetone, Methylene Chloride, Styrene, 1,2-Dibromo-3-Chloropropane are passing on Quadtratic Regression.

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

The Continuous Calibration File ID VV039168.D met the requirements except for Bromomethane is failing marginally low therefore no corrective action taken.

The Continuous Calibration File ID VV039198.D met the requirements except for Acetone is failing high but no positive hit in associate sample therefore no corrective action taken.

The Continuous Calibration File ID VV039221.D met the requirements except for Carbon Disulfide is failing marginally low therefore no corrective action taken.
The Tuning criteria met requirements.

The Tuning criteria met requirements.

Samples MW-4-091625 was diluted due to previous history for high contamination of analytes, so lab has analyzed sample at straight high dilution as a precaution.

Samples MW-31S-091825, MW-31D-091825 and MW-31D-091825-FD were diluted due to high concentrations.

**E. Additional Comments:**
This Data Package has been revised due to Data Package type changed.

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

---

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

Signature_____

284 Sheffield Street, Mountainside NJ 07092 Tel. 908-789-8900 Fax: 908-789-8922



# DATA REPORTING QUALIFIERS- ORGANIC

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

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

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

ORDER ID: Q3195 MATRIX: Water

METHOD: 8260D

| | | NA | NO | YES |
|---|---|---|---|---|
| 1. | Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks) | | | ✓ |
| 2. | GC/MS Tuning Specifications<br>BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ) | | | ✓ |
| 3. | GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series. | | | ✓ |
| 4. | GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series. | | | ✓ |
| 5. | GC/MS Calibration Requirements.<br>The %RSD is greater than 20% in the Initial Calibration method (82V092225W.M) for 2-Hexanone passing on Linear regression and Chloroethane, Acetone ,Methylene Chloride, Styrene, 1,2-Dibromo-3-Chloropropane are passing on Quadtratic Regression.<br><br>The Continuous Calibration File ID VV039168.D met the requirements except for Bromomethane is failing marginally low therefore no corrective action taken.<br><br>The Continuous Calibration File ID VV039198.D met the requirements except for Acetone is failing high but no positive hit in associate sample therefore no corrective action taken.<br><br>The Continuous Calibration File ID VV039221.D met the requirements except for Carbon Disulfide is failing marginally low therefore no corrective action taken. | | ✓ | |
| 6. | Blank Contamination - If yes, list compounds and concentrations in each blank: | | ✓ | |
| 7. | Surrogate Recoveries Meet Criteria<br><br>If not met, list those compounds and their recoveries which fall outside the acceptable ranges. | | | ✓ |

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

| | | NA | NO | YES |
|---|---|---|---|---|
| 8. | Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria | | ✓ | |
| | If not met, list those compounds and their recoveries which fall outside the acceptable range. | | | |
| | The MS {Q3195-20MS} with File ID: VV039237.D recoveries met the requirements for all compounds except for Toluene[117%] due to matrix interference. | | | |
| | The Blank Spike for {VV0929WBS01} with File ID: VV039224.D met requirements for all compounds except for 1,2-Dibromoethane[111%], 4-Methyl-2-Pentanone[120%], Bromoform[118%], m/p-Xylenes[111%] and Toluene[111%] are is failing high but no positive hit in associate sample therefore no corrective action taken. | | | |
| 9. | Internal Standard Area/Retention Time Shift Meet Criteria | | | ✓ |
| | Comments: | | | |
| 10. | Analysis Holding Time Met | | | ✓ |
| | If not met, list number of days exceeded for each sample: | | | |

ADDITIONAL COMMENTS:

This Data Package has been revised due to Data Package type changed.

Samples MW-4-091625 was diluted due to previous history for high contamination of analytes, so lab has analyzed sample at straight high dilution as a precaution.

Samples MW-31S-091825, MW-31D-091825 and MW-31D-091825-FD were diluted due to high concentrations.

_____ _____

QA REVIEW Date

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

## APPENDIX A

## QA REVIEW GENERAL DOCUMENTATION

**Project #:** Q3195

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

**QA Review Signature:** SOHIL JODHANI **Date:** 10/30/2025

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

# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q3195 | **OrderDate:** | 9/25/2025 10:11:00 AM |
| **Client:** | TechLaw Consultants, Inc | **Project:** | REAC Commodore |
| **Contact:** | Jonathan Dziekan | **Location:** | VOA Lab |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q3195-01** | **MOS-18-092225** | **Water** | | | **09/22/25** | | | **09/25/25** |
| | | | VOC-TCLVOA-10 | 8260-Low | | | 09/26/25 | |
| **Q3195-02** | **MW-1-091725** | **Water** | | | **09/17/25** | | | **09/25/25** |
| | | | VOC-TCLVOA-10 | 8260-Low | | | 09/25/25 | |
| **Q3195-03** | **MW-3-091525** | **Water** | | | **09/15/25** | | | **09/25/25** |
| | | | VOC-TCLVOA-10 | 8260-Low | | | 09/26/25 | |
| **Q3195-04** | **MW-4-091625** | **Water** | | | **09/16/25** | | | **09/25/25** |
| | | | VOC-TCLVOA-10 | 8260-Low | | | 09/26/25 | |
| **Q3195-05** | **MW-6-091625** | **Water** | | | **09/16/25** | | | **09/25/25** |
| | | | VOC-TCLVOA-10 | 8260-Low | | | 09/26/25 | |
| **Q3195-06** | **MW-19D-092225** | **Water** | | | **09/22/25** | | | **09/25/25** |
| | | | VOC-TCLVOA-10 | 8260-Low | | | 09/26/25 | |
| **Q3195-07** | **MW-19M-092325** | **Water** | | | **09/23/25** | | | **09/25/25** |
| | | | VOC-TCLVOA-10 | 8260-Low | | | 09/29/25 | |
| **Q3195-08** | **MW-21M-091925** | **Water** | | | **09/19/25** | | | **09/25/25** |
| | | | VOC-TCLVOA-10 | 8260-Low | | | 09/26/25 | |
| **Q3195-09** | **MW-22-091825** | **Water** | | | **09/18/25** | | | **09/25/25** |
| | | | VOC-TCLVOA-10 | 8260-Low | | | 09/25/25 | |
| **Q3195-10** | **MW-23-092325** | **Water** | | | **09/23/25** | | | **09/25/25** |
| | | | VOC-TCLVOA-10 | 8260-Low | | | 09/25/25 | |
| **Q3195-11** | **MW-24-091925** | **Water** | | | **09/19/25** | | | **09/25/25** |
| | | | VOC-TCLVOA-10 | 8260-Low | | | 09/25/25 | |
| **Q3195-12** | **MW-26-091925** | **Water** | | | **09/19/25** | | | **09/25/25** |

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

## LAB CHRONICLE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | VOC-TCLVOA-10 | 8260-Low | | 09/26/25 | |
| **Q3195-13** | **MW-26-091925-FD** | **Water** | | | **09/19/25** | | **09/25/25** |
| | | | VOC-TCLVOA-10 | 8260-Low | | 09/26/25 | |
| **Q3195-14** | **MW-29-092325** | **Water** | | | **09/23/25** | | **09/25/25** |
| | | | VOC-TCLVOA-10 | 8260-Low | | 09/26/25 | |
| **Q3195-15** | **MW-31S-091825** | **Water** | | | **09/18/25** | | **09/25/25** |
| | | | VOC-TCLVOA-10 | 8260-Low | | 09/26/25 | |
| **Q3195-15DL** | **MW-31S-091825DL** | **Water** | | | **09/18/25** | | **09/25/25** |
| | | | VOC-TCLVOA-10 | 8260-Low | | 09/29/25 | |
| **Q3195-16** | **MW-31D-091825** | **Water** | | | **09/18/25** | | **09/25/25** |
| | | | VOC-TCLVOA-10 | 8260-Low | | 09/26/25 | |
| **Q3195-16DL** | **MW-31D-091825DL** | **Water** | | | **09/18/25** | | **09/25/25** |
| | | | VOC-TCLVOA-10 | 8260-Low | | 09/29/25 | |
| **Q3195-17** | **MW-31D-091825-FD** | **Water** | | | **09/18/25** | | **09/25/25** |
| | | | VOC-TCLVOA-10 | 8260-Low | | 09/26/25 | |
| **Q3195-17DL** | **MW-31D-091825-FDDL** | **Water** | | | **09/18/25** | | **09/25/25** |
| | | | VOC-TCLVOA-10 | 8260-Low | | 09/29/25 | |
| **Q3195-18** | **MW-32S-091725** | **Water** | | | **09/17/25** | | **09/25/25** |
| | | | VOC-TCLVOA-10 | 8260-Low | | 09/29/25 | |
| **Q3195-19** | **MW-33D-091725** | **Water** | | | **09/17/25** | | **09/25/25** |
| | | | VOC-TCLVOA-10 | 8260-Low | | 09/29/25 | |
| **Q3195-22** | **RW-1-092425** | **Water** | | | **09/24/25** | | **09/25/25** |
| | | | VOC-TCLVOA-10 | 8260-Low | | 09/25/25 | |
| **Q3195-23** | **EB-01-091925** | **Water** | | | **09/19/25** | | **09/25/25** |
| | | | VOC-TCLVOA-10 | 8260-Low | | 09/25/25 | |
| **Q3195-24** | **EB-02-092225** | **Water** | | | **09/22/25** | | **09/25/25** |
| | | | VOC-TCLVOA-10 | 8260-Low | | 09/26/25 | |
| **Q3195-25** | **FB-01-091925** | **Water** | | | **09/19/25** | | **09/25/25** |

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

## LAB CHRONICLE

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | VOC-TCLVOA-10 | 8260-Low | | 09/25/25 | |
| **Q3195-26** | **FB-02-092225** | **Water** | | | **09/22/25** | | **09/25/25** |
| | | | VOC-TCLVOA-10 | 8260-Low | | 09/25/25 | |
| **Q3195-27** | **TB-01-091525** | **Water** | | | **09/15/25** | | **09/25/25** |
| | | | VOC-TCLVOA-10 | 8260-Low | | 09/25/25 | |

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

# Hit Summary Sheet
**SW-846**

**SDG No.:** Q3195

**Client:** TechLaw Consultants, Inc

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| **Client ID:** | **MOS-18-092225** | | | | | | | |
| Q3195-01 | MOS-18-092225 | Water | Dichlorodifluoromethane | 9.70 | | 0.22 | 1.00 | ug/L |
| Q3195-01 | MOS-18-092225 | Water | Trichlorofluoromethane | 0.49 | J | 0.33 | 1.00 | ug/L |
| Q3195-01 | MOS-18-092225 | Water | 1,1,2-Trichlorotrifluoroethane | 2.50 | | 0.25 | 1.00 | ug/L |
| Q3195-01 | MOS-18-092225 | Water | cis-1,2-Dichloroethene | 2.80 | | 0.19 | 1.00 | ug/L |
| Q3195-01 | MOS-18-092225 | Water | Trichloroethene | 2.20 | | 0.090 | 1.00 | ug/L |
| Q3195-01 | MOS-18-092225 | Water | Tetrachloroethene | 32.7 | | 0.23 | 1.00 | ug/L |
| | | | **Total Voc :** | 50.4 | | | | |
| | | | **Total Concentration:** | 50.4 | | | | |
| **Client ID:** | **MW-1-091725** | | | | | | | |
| Q3195-02 | MW-1-091725 | Water | Vinyl Chloride | 0.26 | J | 0.26 | 1.00 | ug/L |
| Q3195-02 | MW-1-091725 | Water | 1,1,2-Trichlorotrifluoroethane | 0.76 | J | 0.25 | 1.00 | ug/L |
| Q3195-02 | MW-1-091725 | Water | 1,1-Dichloroethene | 5.50 | | 0.23 | 1.00 | ug/L |
| Q3195-02 | MW-1-091725 | Water | 1,1-Dichloroethane | 0.40 | J | 0.23 | 1.00 | ug/L |
| Q3195-02 | MW-1-091725 | Water | cis-1,2-Dichloroethene | 16.2 | | 0.19 | 1.00 | ug/L |
| Q3195-02 | MW-1-091725 | Water | 1,1,1-Trichloroethane | 2.10 | | 0.20 | 1.00 | ug/L |
| Q3195-02 | MW-1-091725 | Water | Trichloroethene | 41.4 | | 0.090 | 1.00 | ug/L |
| | | | **Total Voc :** | 66.6 | | | | |
| | | | **Total Concentration:** | 66.6 | | | | |
| **Client ID:** | **MW-3-091525** | | | | | | | |
| Q3195-03 | MW-3-091525 | Water | Vinyl Chloride | 0.69 | J | 0.26 | 1.00 | ug/L |
| Q3195-03 | MW-3-091525 | Water | 1,1-Dichloroethene | 2.00 | | 0.23 | 1.00 | ug/L |
| Q3195-03 | MW-3-091525 | Water | trans-1,2-Dichloroethene | 0.60 | J | 0.23 | 1.00 | ug/L |
| Q3195-03 | MW-3-091525 | Water | 1,1-Dichloroethane | 0.68 | J | 0.23 | 1.00 | ug/L |
| Q3195-03 | MW-3-091525 | Water | cis-1,2-Dichloroethene | 70.5 | | 0.19 | 1.00 | ug/L |
| Q3195-03 | MW-3-091525 | Water | Trichloroethene | 48.6 | | 0.090 | 1.00 | ug/L |
| | | | **Total Voc :** | 123 | | | | |
| | | | **Total Concentration:** | 123 | | | | |
| **Client ID:** | **MW-4-091625** | | | | | | | |
| Q3195-04 | MW-4-091625 | Water | 1,1-Dichloroethene | 150 | | 23.0 | 100 | ug/L |
| Q3195-04 | MW-4-091625 | Water | cis-1,2-Dichloroethene | 1600 | | 19.0 | 100 | ug/L |
| Q3195-04 | MW-4-091625 | Water | Trichloroethene | 9500 | | 9.30 | 100 | ug/L |
| | | | **Total Voc :** | 11300 | | | | |
| | | | **Total Concentration:** | 11300 | | | | |
| **Client ID:** | **MW-6-091625** | | | | | | | |
| Q3195-05 | MW-6-091625 | Water | 1,1,2-Trichlorotrifluoroethane | 0.43 | J | 0.25 | 1.00 | ug/L |
| Q3195-05 | MW-6-091625 | Water | 1,1-Dichloroethane | 0.62 | J | 0.23 | 1.00 | ug/L |
| Q3195-05 | MW-6-091625 | Water | cis-1,2-Dichloroethene | 12.0 | | 0.19 | 1.00 | ug/L |

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

# Hit Summary Sheet
**SW-846**

**SDG No.:** Q3195

**Client:** TechLaw Consultants, Inc

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| Q3195-05 | MW-6-091625 | Water | Trichloroethene | 6.00 | | 0.090 | 1.00 | ug/L |
| | | | **Total Voc :** | 19.1 | | | | |
| | | | **Total Concentration:** | 19.1 | | | | |
| **Client ID:** | **MW-19D-092225** | | | | | | | |
| Q3195-06 | MW-19D-092225 | Water | Dichlorodifluoromethane | 6.00 | | 0.22 | 1.00 | ug/L |
| Q3195-06 | MW-19D-092225 | Water | 1,1,2-Trichlorotrifluoroethane | 7.70 | | 0.25 | 1.00 | ug/L |
| Q3195-06 | MW-19D-092225 | Water | cis-1,2-Dichloroethene | 0.50 | J | 0.19 | 1.00 | ug/L |
| Q3195-06 | MW-19D-092225 | Water | Chloroform | 0.65 | J | 0.25 | 1.00 | ug/L |
| Q3195-06 | MW-19D-092225 | Water | Trichloroethene | 3.20 | | 0.090 | 1.00 | ug/L |
| Q3195-06 | MW-19D-092225 | Water | Tetrachloroethene | 0.30 | J | 0.23 | 1.00 | ug/L |
| | | | **Total Voc :** | 18.4 | | | | |
| | | | **Total Concentration:** | 18.4 | | | | |
| **Client ID:** | **MW-21M-091925** | | | | | | | |
| Q3195-08 | MW-21M-091925 | Water | cis-1,2-Dichloroethene | 1.80 | | 0.19 | 1.00 | ug/L |
| Q3195-08 | MW-21M-091925 | Water | Trichloroethene | 2.10 | | 0.090 | 1.00 | ug/L |
| | | | **Total Voc :** | 3.90 | | | | |
| | | | **Total Concentration:** | 3.90 | | | | |
| **Client ID:** | **MW-22-091825** | | | | | | | |
| Q3195-09 | MW-22-091825 | Water | Carbon Tetrachloride | 1.80 | | 0.25 | 1.00 | ug/L |
| Q3195-09 | MW-22-091825 | Water | Chloroform | 0.98 | J | 0.25 | 1.00 | ug/L |
| | | | **Total Voc :** | 2.78 | | | | |
| | | | **Total Concentration:** | 2.78 | | | | |
| **Client ID:** | **MW-23-092325** | | | | | | | |
| Q3195-10 | MW-23-092325 | Water | 1,1,2-Trichlorotrifluoroethane | 14.3 | | 0.25 | 1.00 | ug/L |
| Q3195-10 | MW-23-092325 | Water | 1,1-Dichloroethene | 0.63 | J | 0.23 | 1.00 | ug/L |
| Q3195-10 | MW-23-092325 | Water | Trichloroethene | 2.60 | | 0.090 | 1.00 | ug/L |
| | | | **Total Voc :** | 17.5 | | | | |
| Q3195-10 | MW-23-092325 | Water | Ethane, 1,2-dichloro-1,1,2-triflu * | 5.50 | J | 0 | 0 | ug/L |
| | | | **Total Tics :** | 5.50 | | | | |
| | | | **Total Concentration:** | 23.0 | | | | |
| **Client ID:** | **MW-24-091925** | | | | | | | |
| Q3195-11 | MW-24-091925 | Water | Dichlorodifluoromethane | 1.10 | | 0.22 | 1.00 | ug/L |
| Q3195-11 | MW-24-091925 | Water | 1,1,2-Trichlorotrifluoroethane | 1.10 | | 0.25 | 1.00 | ug/L |
| Q3195-11 | MW-24-091925 | Water | Chloroform | 0.35 | J | 0.25 | 1.00 | ug/L |
| Q3195-11 | MW-24-091925 | Water | Trichloroethene | 1.00 | | 0.090 | 1.00 | ug/L |
| Q3195-11 | MW-24-091925 | Water | Tetrachloroethene | 0.34 | J | 0.23 | 1.00 | ug/L |
| | | | **Total Voc :** | 3.89 | | | | |
| | | | **Total Concentration:** | 3.89 | | | | |
| **Client ID:** | **MW-26-091925** | | | | | | | |
| Q3195-12 | MW-26-091925 | Water | Chloroform | 1.20 | | 0.25 | 1.00 | ug/L |

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

# Hit Summary Sheet
**SW-846**

**SDG No.:** Q3195

**Client:** TechLaw Consultants, Inc

| Sample ID | Client ID | Matrix | Parameter | | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| | | | **Total Voc :** | | 1.20 | | | | |
| | | | **Total Concentration:** | | 1.20 | | | | |
| **Client ID:** | **MW-26-091925-FD** | | | | | | | | |
| Q3195-13 | MW-26-091925-FD | Water | Chloroform | | 1.10 | | 0.25 | 1.00 | ug/L |
| | | | **Total Voc :** | | 1.10 | | | | |
| | | | **Total Concentration:** | | 1.10 | | | | |
| **Client ID:** | **MW-29-092325** | | | | | | | | |
| Q3195-14 | MW-29-092325 | Water | 1,1,2-Trichlorotrifluoroethane | | 0.31 | J | 0.25 | 1.00 | ug/L |
| Q3195-14 | MW-29-092325 | Water | 1,1-Dichloroethene | | 0.36 | J | 0.23 | 1.00 | ug/L |
| Q3195-14 | MW-29-092325 | Water | cis-1,2-Dichloroethene | | 1.80 | | 0.19 | 1.00 | ug/L |
| Q3195-14 | MW-29-092325 | Water | Trichloroethene | | 2.90 | | 0.090 | 1.00 | ug/L |
| | | | **Total Voc :** | | 5.37 | | | | |
| | | | **Total Concentration:** | | 5.37 | | | | |
| **Client ID:** | **MW-31S-091825** | | | | | | | | |
| Q3195-15 | MW-31S-091825 | Water | Dichlorodifluoromethane | | 2.00 | | 0.22 | 1.00 | ug/L |
| Q3195-15 | MW-31S-091825 | Water | 1,1,2-Trichlorotrifluoroethane | | 280 | E | 0.25 | 1.00 | ug/L |
| Q3195-15 | MW-31S-091825 | Water | 1,1-Dichloroethene | | 2.40 | | 0.23 | 1.00 | ug/L |
| Q3195-15 | MW-31S-091825 | Water | 1,1-Dichloroethane | | 2.70 | | 0.23 | 1.00 | ug/L |
| Q3195-15 | MW-31S-091825 | Water | 1,1,1-Trichloroethane | | 2.20 | | 0.20 | 1.00 | ug/L |
| Q3195-15 | MW-31S-091825 | Water | Trichloroethene | | 28.3 | | 0.090 | 1.00 | ug/L |
| | | | **Total Voc :** | | 318 | | | | |
| Q3195-15 | MW-31S-091825 | Water | Ethane, 1,2-dichloro-1,1,2-trifl | * | 8.70 | J | 0 | 0 | ug/L |
| Q3195-15 | MW-31S-091825 | Water | 1,4-Dioxane | * | 40.1 | J | 6.90 | 100 | ug/L |
| | | | **Total Tics :** | | 48.8 | | | | |
| | | | **Total Concentration:** | | 366 | | | | |
| **Client ID:** | **MW-31S-091825DL** | | | | | | | | |
| Q3195-15DL | MW-31S-091825DI | Water | 1,1,2-Trichlorotrifluoroethane | | 220 | D | 1.30 | 5.00 | ug/L |
| Q3195-15DL | MW-31S-091825DI | Water | Trichloroethene | | 25.1 | D | 0.47 | 5.00 | ug/L |
| | | | **Total Voc :** | | 245 | | | | |
| | | | **Total Concentration:** | | 245 | | | | |
| **Client ID:** | **MW-31D-091825** | | | | | | | | |
| Q3195-16 | MW-31D-091825 | Water | Dichlorodifluoromethane | | 20.3 | | 0.22 | 1.00 | ug/L |
| Q3195-16 | MW-31D-091825 | Water | 1,1,2-Trichlorotrifluoroethane | | 2300 | E | 0.25 | 1.00 | ug/L |
| Q3195-16 | MW-31D-091825 | Water | 1,1-Dichloroethene | | 17.2 | | 0.23 | 1.00 | ug/L |
| Q3195-16 | MW-31D-091825 | Water | 1,1-Dichloroethane | | 8.90 | | 0.23 | 1.00 | ug/L |
| Q3195-16 | MW-31D-091825 | Water | cis-1,2-Dichloroethene | | 0.79 | J | 0.19 | 1.00 | ug/L |
| Q3195-16 | MW-31D-091825 | Water | 1,1,1-Trichloroethane | | 8.20 | | 0.20 | 1.00 | ug/L |
| Q3195-16 | MW-31D-091825 | Water | Trichloroethene | | 270 | E | 0.090 | 1.00 | ug/L |
| Q3195-16 | MW-31D-091825 | Water | Tetrachloroethene | | 0.25 | J | 0.23 | 1.00 | ug/L |

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

# Hit Summary Sheet
**SW-846**

**SDG No.:** Q3195

**Client:** TechLaw Consultants, Inc

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| | | | **Total Voc :** | 2630 | | | | |
| Q3195-16 | MW-31D-091825 | Water | Ethane, 1,2-dichloro-1,1,2-triflu * | 190 | J | 0 | 0 | ug/L |
| | | | **Total Tics :** | 190 | | | | |
| | | | **Total Concentration:** | 2820 | | | | |
| **Client ID:** | **MW-31D-091825DL** | | | | | | | |
| Q3195-16DL | MW-31D-091825D | Water | Dichlorodifluoromethane | 19.9 | JD | 8.80 | 40.0 | ug/L |
| Q3195-16DL | MW-31D-091825D | Water | 1,1,2-Trichlorotrifluoroethane | 2400 | D | 10.0 | 40.0 | ug/L |
| Q3195-16DL | MW-31D-091825D | Water | 1,1-Dichloroethene | 20.7 | JD | 9.20 | 40.0 | ug/L |
| Q3195-16DL | MW-31D-091825D | Water | 1,1-Dichloroethane | 9.80 | JD | 9.20 | 40.0 | ug/L |
| Q3195-16DL | MW-31D-091825D | Water | Trichloroethene | 250 | D | 3.70 | 40.0 | ug/L |
| | | | **Total Voc :** | 2700 | | | | |
| | | | **Total Concentration:** | 2700 | | | | |
| **Client ID:** | **MW-31D-091825-FD** | | | | | | | |
| Q3195-17 | MW-31D-091825-F | Water | Dichlorodifluoromethane | 31.6 | | 0.22 | 1.00 | ug/L |
| Q3195-17 | MW-31D-091825-F | Water | 1,1,2-Trichlorotrifluoroethane | 3500 | E | 0.25 | 1.00 | ug/L |
| Q3195-17 | MW-31D-091825-F | Water | 1,1-Dichloroethene | 26.8 | | 0.23 | 1.00 | ug/L |
| Q3195-17 | MW-31D-091825-F | Water | 1,1-Dichloroethane | 13.7 | | 0.23 | 1.00 | ug/L |
| Q3195-17 | MW-31D-091825-F | Water | cis-1,2-Dichloroethene | 1.30 | | 0.19 | 1.00 | ug/L |
| Q3195-17 | MW-31D-091825-F | Water | 1,1,1-Trichloroethane | 12.8 | | 0.20 | 1.00 | ug/L |
| Q3195-17 | MW-31D-091825-F | Water | Trichloroethene | 420 | E | 0.090 | 1.00 | ug/L |
| Q3195-17 | MW-31D-091825-F | Water | Tetrachloroethene | 0.41 | J | 0.23 | 1.00 | ug/L |
| | | | **Total Voc :** | 4010 | | | | |
| Q3195-17 | MW-31D-091825-F | Water | Ethane, 1,2-dichloro-1,1,2-triflu * | 310 | J | 0 | 0 | ug/L |
| | | | **Total Tics :** | 310 | | | | |
| | | | **Total Concentration:** | 4320 | | | | |
| **Client ID:** | **MW-31D-091825-FDDL** | | | | | | | |
| Q3195-17DL | MW-31D-091825-F | Water | Dichlorodifluoromethane | 22.6 | JD | 11.0 | 50.0 | ug/L |
| Q3195-17DL | MW-31D-091825-F | Water | 1,1,2-Trichlorotrifluoroethane | 2400 | D | 12.5 | 50.0 | ug/L |
| Q3195-17DL | MW-31D-091825-F | Water | Trichloroethene | 250 | D | 4.70 | 50.0 | ug/L |
| | | | **Total Voc :** | 2670 | | | | |
| | | | **Total Concentration:** | 2670 | | | | |
| **Client ID:** | **MW-32S-091725** | | | | | | | |
| Q3195-18 | MW-32S-091725 | Water | Trichloroethene | 0.52 | J | 0.090 | 1.00 | ug/L |
| Q3195-18 | MW-32S-091725 | Water | Tetrachloroethene | 0.80 | J | 0.23 | 1.00 | ug/L |
| | | | **Total Voc :** | 1.32 | | | | |
| | | | **Total Concentration:** | 1.32 | | | | |
| **Client ID:** | **MW-33D-091725** | | | | | | | |
| Q3195-19 | MW-33D-091725 | Water | Dichlorodifluoromethane | 7.90 | | 0.22 | 1.00 | ug/L |
| Q3195-19 | MW-33D-091725 | Water | 1,1,2-Trichlorotrifluoroethane | 2.10 | | 0.25 | 1.00 | ug/L |

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

# Hit Summary Sheet
**SW-846**

**SDG No.:** Q3195

**Client:** TechLaw Consultants, Inc

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | RDL | Units |
|---|---|---|---|---|---|---|---|---|
| Q3195-19 | MW-33D-091725 | Water | cis-1,2-Dichloroethene | 1.30 | | 0.19 | 1.00 | ug/L |
| Q3195-19 | MW-33D-091725 | Water | Trichloroethene | 5.50 | | 0.090 | 1.00 | ug/L |
| Q3195-19 | MW-33D-091725 | Water | Tetrachloroethene | 1.40 | | 0.23 | 1.00 | ug/L |
| | | | **Total Voc :** | 18.2 | | | | |
| | | | **Total Concentration:** | 18.2 | | | | |
| **Client ID:** | **RW-1-092425** | | | | | | | |
| Q3195-22 | RW-1-092425 | Water | Trichloroethene | 0.64 | J | 0.090 | 1.00 | ug/L |
| | | | **Total Voc :** | 0.64 | | | | |
| | | | **Total Concentration:** | 0.64 | | | | |

# QC SUMMARY

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

## Surrogate Summary

**SDG No.:** Q3195

**Client:** TechLaw Consultants, Inc

**Analytical Method:** SW8260-Low

| Lab Sample ID | Client ID | Parameter | Spike | Result | Recovery (%) | Qual | Limits (%) Low | High |
|---|---|---|---|---|---|---|---|---|
| Q3195-01 | MOS-18-092225 | 1,2-Dichloroethane-d4 | 50 | 59.6 | 119 | | 74 | 125 |
| | | Dibromofluoromethane | 50 | 58.1 | 116 | | 75 | 124 |
| | | Toluene-d8 | 50 | 47.1 | 94 | | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 43.9 | 88 | | 77 | 121 |
| Q3195-02 | MW-1-091725 | 1,2-Dichloroethane-d4 | 50 | 55.1 | 110 | | 74 | 125 |
| | | Dibromofluoromethane | 50 | 51.0 | 102 | | 75 | 124 |
| | | Toluene-d8 | 50 | 46.4 | 93 | | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 44.1 | 88 | | 77 | 121 |
| Q3195-03 | MW-3-091525 | 1,2-Dichloroethane-d4 | 50 | 56.4 | 113 | | 74 | 125 |
| | | Dibromofluoromethane | 50 | 53.0 | 106 | | 75 | 124 |
| | | Toluene-d8 | 50 | 46.8 | 94 | | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 44.5 | 89 | | 77 | 121 |
| Q3195-04 | MW-4-091625 | 1,2-Dichloroethane-d4 | 50 | 56.0 | 112 | | 74 | 125 |
| | | Dibromofluoromethane | 50 | 52.9 | 106 | | 75 | 124 |
| | | Toluene-d8 | 50 | 46.2 | 92 | | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 44.1 | 88 | | 77 | 121 |
| Q3195-05 | MW-6-091625 | 1,2-Dichloroethane-d4 | 50 | 60.5 | 121 | | 74 | 125 |
| | | Dibromofluoromethane | 50 | 56.6 | 113 | | 75 | 124 |
| | | Toluene-d8 | 50 | 46.3 | 93 | | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 43.5 | 87 | | 77 | 121 |
| Q3195-06 | MW-19D-092225 | 1,2-Dichloroethane-d4 | 50 | 61.9 | 124 | | 74 | 125 |
| | | Dibromofluoromethane | 50 | 57.6 | 115 | | 75 | 124 |
| | | Toluene-d8 | 50 | 47.3 | 95 | | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 43.8 | 88 | | 77 | 121 |
| Q3195-07 | MW-19M-092325 | 1,2-Dichloroethane-d4 | 50 | 55.6 | 111 | | 74 | 125 |
| | | Dibromofluoromethane | 50 | 56.2 | 112 | | 75 | 124 |
| | | Toluene-d8 | 50 | 46.0 | 92 | | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 45.0 | 90 | | 77 | 121 |
| Q3195-08 | MW-21M-091925 | 1,2-Dichloroethane-d4 | 50 | 60.9 | 122 | | 74 | 125 |
| | | Dibromofluoromethane | 50 | 55.1 | 110 | | 75 | 124 |
| | | Toluene-d8 | 50 | 47.3 | 95 | | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 43.8 | 88 | | 77 | 121 |
| Q3195-09 | MW-22-091825 | 1,2-Dichloroethane-d4 | 50 | 56.4 | 113 | | 74 | 125 |
| | | Dibromofluoromethane | 50 | 51.0 | 102 | | 75 | 124 |
| | | Toluene-d8 | 50 | 46.5 | 93 | | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 44.3 | 89 | | 77 | 121 |
| Q3195-10 | MW-23-092325 | 1,2-Dichloroethane-d4 | 50 | 55.5 | 111 | | 74 | 125 |
| | | Dibromofluoromethane | 50 | 50.1 | 100 | | 75 | 124 |
| | | Toluene-d8 | 50 | 46.5 | 93 | | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 43.6 | 87 | | 77 | 121 |
| Q3195-11 | MW-24-091925 | 1,2-Dichloroethane-d4 | 50 | 55.6 | 111 | | 74 | 125 |
| | | Dibromofluoromethane | 50 | 51.5 | 103 | | 75 | 124 |
| | | Toluene-d8 | 50 | 46.2 | 92 | | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 44.5 | 89 | | 77 | 121 |
| Q3195-12 | MW-26-091925 | 1,2-Dichloroethane-d4 | 50 | 56.0 | 112 | | 74 | 125 |
| | | Dibromofluoromethane | 50 | 52.7 | 105 | | 75 | 124 |
| | | Toluene-d8 | 50 | 47.0 | 94 | | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 44.9 | 90 | | 77 | 121 |
| Q3195-13 | MW-26-091925-FD | 1,2-Dichloroethane-d4 | 50 | 60.7 | 121 | | 74 | 125 |
| | | Dibromofluoromethane | 50 | 56.1 | 112 | | 75 | 124 |

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

## Surrogate Summary

**SDG No.:** Q3195

**Client:** TechLaw Consultants, Inc

**Analytical Method:** SW8260-Low

| Lab Sample ID | Client ID | Parameter | Spike | Result | Recovery (%) | Qual | Limits (%) Low | High |
|---|---|---|---|---|---|---|---|---|
| Q3195-13 | MW-26-091925-FD | Toluene-d8 | 50 | 47.7 | 95 | | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 44.3 | 89 | | 77 | 121 |
| Q3195-14 | MW-29-092325 | 1,2-Dichloroethane-d4 | 50 | 61.8 | 124 | | 74 | 125 |
| | | Dibromofluoromethane | 50 | 56.0 | 112 | | 75 | 124 |
| | | Toluene-d8 | 50 | 46.3 | 93 | | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 43.7 | 87 | | 77 | 121 |
| Q3195-15 | MW-31S-091825 | 1,2-Dichloroethane-d4 | 50 | 62.3 | 125 | | 74 | 125 |
| | | Dibromofluoromethane | 50 | 57.3 | 115 | | 75 | 124 |
| | | Toluene-d8 | 50 | 48.4 | 97 | | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 44.4 | 89 | | 77 | 121 |
| Q3195-15DL | MW-31S-091825DL | 1,2-Dichloroethane-d4 | 50 | 51.6 | 103 | | 74 | 125 |
| | | Dibromofluoromethane | 50 | 52.3 | 105 | | 75 | 124 |
| | | Toluene-d8 | 50 | 45.0 | 90 | | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 44.6 | 89 | | 77 | 121 |
| Q3195-16 | MW-31D-091825 | 1,2-Dichloroethane-d4 | 50 | 59.0 | 118 | | 74 | 125 |
| | | Dibromofluoromethane | 50 | 54.7 | 109 | | 75 | 124 |
| | | Toluene-d8 | 50 | 48.2 | 96 | | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 43.9 | 88 | | 77 | 121 |
| Q3195-16DL | MW-31D-091825DL | 1,2-Dichloroethane-d4 | 50 | 56.9 | 114 | | 74 | 125 |
| | | Dibromofluoromethane | 50 | 55.8 | 112 | | 75 | 124 |
| | | Toluene-d8 | 50 | 45.2 | 90 | | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 44.8 | 90 | | 77 | 121 |
| Q3195-17 | MW-31D-091825-FD | 1,2-Dichloroethane-d4 | 50 | 61.6 | 123 | | 74 | 125 |
| | | Dibromofluoromethane | 50 | 58.4 | 117 | | 75 | 124 |
| | | Toluene-d8 | 50 | 49.2 | 98 | | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 43.3 | 87 | | 77 | 121 |
| Q3195-17DL | MW-31D-091825-FDDL | 1,2-Dichloroethane-d4 | 50 | 56.8 | 113 | | 74 | 125 |
| | | Dibromofluoromethane | 50 | 56.6 | 113 | | 75 | 124 |
| | | Toluene-d8 | 50 | 45.8 | 92 | | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 45.2 | 90 | | 77 | 121 |
| Q3195-18 | MW-32S-091725 | 1,2-Dichloroethane-d4 | 50 | 54.0 | 108 | | 74 | 125 |
| | | Dibromofluoromethane | 50 | 54.6 | 109 | | 75 | 124 |
| | | Toluene-d8 | 50 | 45.7 | 91 | | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 45.8 | 92 | | 77 | 121 |
| Q3195-19 | MW-33D-091725 | 1,2-Dichloroethane-d4 | 50 | 55.5 | 111 | | 74 | 125 |
| | | Dibromofluoromethane | 50 | 54.2 | 108 | | 75 | 124 |
| | | Toluene-d8 | 50 | 45.4 | 91 | | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 44.9 | 90 | | 77 | 121 |
| Q3195-20MS | MW-33D-091725MS | 1,2-Dichloroethane-d4 | 50 | 41.7 | 83 | | 74 | 125 |
| | | Dibromofluoromethane | 50 | 51.7 | 103 | | 75 | 124 |
| | | Toluene-d8 | 50 | 49.3 | 99 | | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 57.1 | 114 | | 77 | 121 |
| Q3195-21MSD | MW-33D-091725MSD | 1,2-Dichloroethane-d4 | 50 | 43.2 | 86 | | 74 | 125 |
| | | Dibromofluoromethane | 50 | 51.2 | 102 | | 75 | 124 |
| | | Toluene-d8 | 50 | 48.8 | 98 | | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 56.8 | 114 | | 77 | 121 |
| Q3195-22 | RW-1-092425 | 1,2-Dichloroethane-d4 | 50 | 55.5 | 111 | | 74 | 125 |
| | | Dibromofluoromethane | 50 | 49.4 | 99 | | 75 | 124 |
| | | Toluene-d8 | 50 | 45.5 | 91 | | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 42.8 | 86 | | 77 | 121 |

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

## Surrogate Summary

**SDG No.:** Q3195

**Client:** TechLaw Consultants, Inc

**Analytical Method:** SW8260-Low

| Lab Sample ID | Client ID | Parameter | Spike | Result | Recovery (%) | Qual | Limits (%) Low | Limits (%) High |
|---|---|---|---|---|---|---|---|---|
| Q3195-23 | EB-01-091925 | 1,2-Dichloroethane-d4 | 50 | 53.5 | 107 | | 74 | 125 |
| | | Dibromofluoromethane | 50 | 50.7 | 101 | | 75 | 124 |
| | | Toluene-d8 | 50 | 45.3 | 91 | | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 43.7 | 87 | | 77 | 121 |
| Q3195-24 | EB-02-092225 | 1,2-Dichloroethane-d4 | 50 | 54.6 | 109 | | 74 | 125 |
| | | Dibromofluoromethane | 50 | 50.9 | 102 | | 75 | 124 |
| | | Toluene-d8 | 50 | 45.7 | 91 | | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 44.5 | 89 | | 77 | 121 |
| Q3195-25 | FB-01-091925 | 1,2-Dichloroethane-d4 | 50 | 54.0 | 108 | | 74 | 125 |
| | | Dibromofluoromethane | 50 | 50.0 | 100 | | 75 | 124 |
| | | Toluene-d8 | 50 | 46.1 | 92 | | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 45.0 | 90 | | 77 | 121 |
| Q3195-26 | FB-02-092225 | 1,2-Dichloroethane-d4 | 50 | 54.1 | 108 | | 74 | 125 |
| | | Dibromofluoromethane | 50 | 49.9 | 100 | | 75 | 124 |
| | | Toluene-d8 | 50 | 46.0 | 92 | | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 43.9 | 88 | | 77 | 121 |
| Q3195-27 | TB-01-091525 | 1,2-Dichloroethane-d4 | 50 | 54.5 | 109 | | 74 | 125 |
| | | Dibromofluoromethane | 50 | 50.8 | 102 | | 75 | 124 |
| | | Toluene-d8 | 50 | 45.8 | 92 | | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 44.0 | 88 | | 77 | 121 |
| VV0925WBL01 | VV0925WBL01 | 1,2-Dichloroethane-d4 | 50 | 60.1 | 120 | | 74 | 125 |
| | | Dibromofluoromethane | 50 | 53.3 | 107 | | 75 | 124 |
| | | Toluene-d8 | 50 | 47.3 | 95 | | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 44.1 | 88 | | 77 | 121 |
| VV0925WBS01 | VV0925WBS01 | 1,2-Dichloroethane-d4 | 50 | 45.1 | 90 | | 74 | 125 |
| | | Dibromofluoromethane | 50 | 47.8 | 96 | | 75 | 124 |
| | | Toluene-d8 | 50 | 47.9 | 96 | | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 51.2 | 102 | | 77 | 121 |
| VV0926WBL01 | VV0926WBL01 | 1,2-Dichloroethane-d4 | 50 | 56.4 | 113 | | 74 | 125 |
| | | Dibromofluoromethane | 50 | 51.0 | 102 | | 75 | 124 |
| | | Toluene-d8 | 50 | 46.3 | 93 | | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 45.7 | 91 | | 77 | 121 |
| VV0926WBS01 | VV0926WBS01 | 1,2-Dichloroethane-d4 | 50 | 46.9 | 94 | | 74 | 125 |
| | | Dibromofluoromethane | 50 | 52.3 | 105 | | 75 | 124 |
| | | Toluene-d8 | 50 | 50.2 | 100 | | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 55.4 | 111 | | 77 | 121 |
| VV0929WBL01 | VV0929WBL01 | 1,2-Dichloroethane-d4 | 50 | 54.8 | 110 | | 74 | 125 |
| | | Dibromofluoromethane | 50 | 54.5 | 109 | | 75 | 124 |
| | | Toluene-d8 | 50 | 45.7 | 91 | | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 45.6 | 91 | | 77 | 121 |
| VV0929WBS01 | VV0929WBS01 | 1,2-Dichloroethane-d4 | 50 | 42.8 | 86 | | 74 | 125 |
| | | Dibromofluoromethane | 50 | 50.2 | 100 | | 75 | 124 |
| | | Toluene-d8 | 50 | 47.1 | 94 | | 86 | 113 |
| | | 4-Bromofluorobenzene | 50 | 52.7 | 105 | | 77 | 121 |

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

## Matrix Spike/Matrix Spike Duplicate Summary

### SW-846

**SDG No.:** Q3195 **Analytical Method:** SW8260-Low

**Client:** TechLaw Consultants, Inc **Datafile :** VV039237.D

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID : Q3195-20MS** | | **Client Sample ID : MW-33D-091725MS** | | | | | | | | | |
| Dichlorodifluoromethane | 50 | 7.90 | 49.4 | ug/L | 83 | | | | 73 | 120 | |
| Chloromethane | 50 | 0 | 43.1 | ug/L | 86 | | | | 58 | 133 | |
| Vinyl chloride | 50 | 0 | 45.0 | ug/L | 90 | | | | 69 | 125 | |
| Bromomethane | 50 | 0 | 44.9 | ug/L | 90 | | | | 28 | 165 | |
| Chloroethane | 50 | 0 | 49.0 | ug/L | 98 | | | | 70 | 141 | |
| Trichlorofluoromethane | 50 | 0 | 47.9 | ug/L | 96 | | | | 72 | 124 | |
| 1,1,2-Trichlorotrifluoroethane | 50 | 2.10 | 49.5 | ug/L | 95 | | | | 75 | 117 | |
| 1,1-Dichloroethene | 50 | 0 | 48.7 | ug/L | 97 | | | | 53 | 162 | |
| Acetone | 250 | 0 | 200 | ug/L | 80 | | | | 44 | 150 | |
| Carbon disulfide | 50 | 0 | 42.1 | ug/L | 84 | | | | 44 | 135 | |
| Methyl tert-butyl Ether | 50 | 0 | 49.8 | ug/L | 100 | | | | 82 | 133 | |
| Methyl Acetate | 50 | 0 | 52.5 | ug/L | 105 | | | | 76 | 138 | |
| Methylene Chloride | 50 | 0 | 54.1 | ug/L | 108 | | | | 79 | 115 | |
| trans-1,2-Dichloroethene | 50 | 0 | 48.3 | ug/L | 97 | | | | 76 | 118 | |
| 1,1-Dichloroethane | 50 | 0 | 46.1 | ug/L | 92 | | | | 78 | 122 | |
| Cyclohexane | 50 | 0 | 40.7 | ug/L | 81 | | | | 71 | 119 | |
| 2-Butanone | 250 | 0 | 240 | ug/L | 96 | | | | 67 | 137 | |
| Carbon Tetrachloride | 50 | 0 | 52.3 | ug/L | 105 | | | | 66 | 133 | |
| cis-1,2-Dichloroethene | 50 | 1.30 | 50.1 | ug/L | 98 | | | | 82 | 124 | |
| Bromochloromethane | 50 | 0 | 47.9 | ug/L | 96 | | | | 72 | 130 | |
| Chloroform | 50 | 0 | 46.4 | ug/L | 93 | | | | 83 | 119 | |
| 1,1,1-Trichloroethane | 50 | 0 | 46.6 | ug/L | 93 | | | | 83 | 117 | |
| Methylcyclohexane | 50 | 0 | 49.1 | ug/L | 98 | | | | 64 | 120 | |
| Benzene | 50 | 0 | 53.2 | ug/L | 106 | | | | 81 | 128 | |
| 1,2-Dichloroethane | 50 | 0 | 51.6 | ug/L | 103 | | | | 76 | 120 | |
| Trichloroethene | 50 | 5.50 | 63.2 | ug/L | 115 | | | | 28 | 175 | |
| 1,2-Dichloropropane | 50 | 0 | 55.8 | ug/L | 112 | | | | 85 | 116 | |
| Bromodichloromethane | 50 | 0 | 53.4 | ug/L | 107 | | | | 54 | 157 | |
| 4-Methyl-2-Pentanone | 250 | 0 | 300 | ug/L | 120 | | | | 72 | 137 | |
| Toluene | 50 | 0 | 58.6 | ug/L | 117 | * | | | 85 | 115 | |
| t-1,3-Dichloropropene | 50 | 0 | 57.0 | ug/L | 114 | | | | 60 | 141 | |
| cis-1,3-Dichloropropene | 50 | 0 | 51.7 | ug/L | 103 | | | | 36 | 161 | |
| 1,1,2-Trichloroethane | 50 | 0 | 55.7 | ug/L | 111 | | | | 27 | 175 | |
| 2-Hexanone | 250 | 0 | 280 | ug/L | 112 | | | | 75 | 131 | |
| Dibromochloromethane | 50 | 0 | 57.6 | ug/L | 115 | | | | 59 | 164 | |
| 1,2-Dibromoethane | 50 | 0 | 58.7 | ug/L | 117 | | | | 85 | 119 | |
| Tetrachloroethene | 50 | 1.40 | 55.4 | ug/L | 108 | | | | 48 | 153 | |
| Chlorobenzene | 50 | 0 | 53.6 | ug/L | 107 | | | | 85 | 114 | |
| Ethyl Benzene | 50 | 0 | 58.4 | ug/L | 117 | | | | 81 | 128 | |
| m/p-Xylenes | 100 | 0 | 120 | ug/L | 120 | | | | 69 | 129 | |
| o-Xylene | 50 | 0 | 62.1 | ug/L | 124 | | | | 75 | 127 | |
| Styrene | 50 | 0 | 55.9 | ug/L | 112 | | | | 84 | 128 | |
| Bromoform | 50 | 0 | 60.7 | ug/L | 121 | | | | 73 | 147 | |
| Isopropylbenzene | 50 | 0 | 52.4 | ug/L | 105 | | | | 76 | 121 | |
| 1,1,2,2-Tetrachloroethane | 50 | 0 | 46.5 | ug/L | 93 | | | | 81 | 131 | |

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

## Matrix Spike/Matrix Spike Duplicate Summary

### SW-846

**SDG No.:** Q3195 **Analytical Method:** SW8260-Low

**Client:** TechLaw Consultants, Inc **Datafile :** VV039237.D

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 50 | 0 | 51.3 | ug/L | 103 | | | | 84 | 110 | |
| 1,4-Dichlorobenzene | 50 | 0 | 49.3 | ug/L | 99 | | | | 81 | 111 | |
| 1,2-Dichlorobenzene | 50 | 0 | 50.9 | ug/L | 102 | | | | 82 | 113 | |
| 1,2-Dibromo-3-Chloropropane | 50 | 0 | 53.6 | ug/L | 107 | | | | 79 | 137 | |
| 1,2,4-Trichlorobenzene | 50 | 0 | 52.8 | ug/L | 106 | | | | 73 | 120 | |
| 1,2,3-Trichlorobenzene | 50 | 0 | 53.4 | ug/L | 107 | | | | 75 | 119 | |

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

## Matrix Spike/Matrix Spike Duplicate Summary

### SW-846

**SDG No.:** Q3195 **Analytical Method:** SW8260-Low

**Client:** TechLaw Consultants, Inc **Datafile :** VV039238.D

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Lab Sample ID : Q3195-21MSD** | | **Client Sample ID : MW-33D-091725MSD** | | | | | | | | | |
| Dichlorodifluoromethane | 50 | 7.90 | 47.8 | ug/L | 80 | | 4 | | 73 | 120 | 20 |
| Chloromethane | 50 | 0 | 40.7 | ug/L | 81 | | 6 | | 58 | 133 | 20 |
| Vinyl chloride | 50 | 0 | 43.1 | ug/L | 86 | | 4 | | 69 | 125 | 20 |
| Bromomethane | 50 | 0 | 44.7 | ug/L | 89 | | 0 | | 28 | 165 | 20 |
| Chloroethane | 50 | 0 | 46.0 | ug/L | 92 | | 6 | | 70 | 141 | 20 |
| Trichlorofluoromethane | 50 | 0 | 44.9 | ug/L | 90 | | 6 | | 72 | 124 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 50 | 2.10 | 47.3 | ug/L | 90 | | 5 | | 75 | 117 | 20 |
| 1,1-Dichloroethene | 50 | 0 | 45.7 | ug/L | 91 | | 6 | | 53 | 162 | 20 |
| Acetone | 250 | 0 | 190 | ug/L | 76 | | 5 | | 44 | 150 | 20 |
| Carbon disulfide | 50 | 0 | 39.6 | ug/L | 79 | | 6 | | 44 | 135 | 20 |
| Methyl tert-butyl Ether | 50 | 0 | 47.3 | ug/L | 95 | | 5 | | 82 | 133 | 20 |
| Methyl Acetate | 50 | 0 | 47.9 | ug/L | 96 | | 9 | | 76 | 138 | 20 |
| Methylene Chloride | 50 | 0 | 50.1 | ug/L | 100 | | 8 | | 79 | 115 | 20 |
| trans-1,2-Dichloroethene | 50 | 0 | 45.7 | ug/L | 91 | | 6 | | 76 | 118 | 20 |
| 1,1-Dichloroethane | 50 | 0 | 43.2 | ug/L | 86 | | 6 | | 78 | 122 | 20 |
| Cyclohexane | 50 | 0 | 38.8 | ug/L | 78 | | 5 | | 71 | 119 | 20 |
| 2-Butanone | 250 | 0 | 220 | ug/L | 88 | | 9 | | 67 | 137 | 20 |
| Carbon Tetrachloride | 50 | 0 | 47.4 | ug/L | 95 | | 10 | | 66 | 133 | 20 |
| cis-1,2-Dichloroethene | 50 | 1.30 | 47.9 | ug/L | 93 | | 5 | | 82 | 124 | 20 |
| Bromochloromethane | 50 | 0 | 45.1 | ug/L | 90 | | 6 | | 72 | 130 | 20 |
| Chloroform | 50 | 0 | 43.0 | ug/L | 86 | | 8 | | 83 | 119 | 20 |
| 1,1,1-Trichloroethane | 50 | 0 | 43.6 | ug/L | 87 | | 7 | | 83 | 117 | 20 |
| Methylcyclohexane | 50 | 0 | 45.7 | ug/L | 91 | | 7 | | 64 | 120 | 20 |
| Benzene | 50 | 0 | 49.1 | ug/L | 98 | | 8 | | 81 | 128 | 20 |
| 1,2-Dichloroethane | 50 | 0 | 47.1 | ug/L | 94 | | 9 | | 76 | 120 | 20 |
| Trichloroethene | 50 | 5.50 | 58.2 | ug/L | 105 | | 9 | | 28 | 175 | 20 |
| 1,2-Dichloropropane | 50 | 0 | 50.6 | ug/L | 101 | | 10 | | 85 | 116 | 20 |
| Bromodichloromethane | 50 | 0 | 48.4 | ug/L | 97 | | 10 | | 54 | 157 | 20 |
| 4-Methyl-2-Pentanone | 250 | 0 | 270 | ug/L | 108 | | 11 | | 72 | 137 | 20 |
| Toluene | 50 | 0 | 53.7 | ug/L | 107 | | 9 | | 85 | 115 | 20 |
| t-1,3-Dichloropropene | 50 | 0 | 53.0 | ug/L | 106 | | 7 | | 60 | 141 | 20 |
| cis-1,3-Dichloropropene | 50 | 0 | 48.2 | ug/L | 96 | | 7 | | 36 | 161 | 20 |
| 1,1,2-Trichloroethane | 50 | 0 | 51.5 | ug/L | 103 | | 8 | | 27 | 175 | 20 |
| 2-Hexanone | 250 | 0 | 250 | ug/L | 100 | | 11 | | 75 | 131 | 20 |
| Dibromochloromethane | 50 | 0 | 52.6 | ug/L | 105 | | 9 | | 59 | 164 | 20 |
| 1,2-Dibromoethane | 50 | 0 | 53.1 | ug/L | 106 | | 10 | | 85 | 119 | 20 |
| Tetrachloroethene | 50 | 1.40 | 51.7 | ug/L | 101 | | 7 | | 48 | 153 | 20 |
| Chlorobenzene | 50 | 0 | 50.3 | ug/L | 101 | | 6 | | 85 | 114 | 20 |
| Ethyl Benzene | 50 | 0 | 55.1 | ug/L | 110 | | 6 | | 81 | 128 | 20 |
| m/p-Xylenes | 100 | 0 | 120 | ug/L | 120 | | 0 | | 69 | 129 | 20 |
| o-Xylene | 50 | 0 | 58.2 | ug/L | 116 | | 6 | | 75 | 127 | 20 |
| Styrene | 50 | 0 | 52.1 | ug/L | 104 | | 7 | | 84 | 128 | 20 |
| Bromoform | 50 | 0 | 57.1 | ug/L | 114 | | 6 | | 73 | 147 | 20 |
| Isopropylbenzene | 50 | 0 | 49.8 | ug/L | 100 | | 5 | | 76 | 121 | 20 |
| 1,1,2,2-Tetrachloroethane | 50 | 0 | 43.4 | ug/L | 87 | | 7 | | 81 | 131 | 20 |

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

## Matrix Spike/Matrix Spike Duplicate Summary

### SW-846

**SDG No.:** Q3195 **Analytical Method:** SW8260-Low

**Client:** TechLaw Consultants, Inc **Datafile :** VV039238.D

| Parameter | Spike | Sample Result | Result | Units | Rec | Rec Qual | RPD | RPD Qual | Limits Low | Limits High | Limits RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,3-Dichlorobenzene | 50 | 0 | 48.3 | ug/L | 97 | | 6 | | 84 | 110 | 20 |
| 1,4-Dichlorobenzene | 50 | 0 | 45.8 | ug/L | 92 | | 7 | | 81 | 111 | 20 |
| 1,2-Dichlorobenzene | 50 | 0 | 48.3 | ug/L | 97 | | 5 | | 82 | 113 | 20 |
| 1,2-Dibromo-3-Chloropropane | 50 | 0 | 50.9 | ug/L | 102 | | 5 | | 79 | 137 | 20 |
| 1,2,4-Trichlorobenzene | 50 | 0 | 50.0 | ug/L | 100 | | 5 | | 73 | 120 | 20 |
| 1,2,3-Trichlorobenzene | 50 | 0 | 50.7 | ug/L | 101 | | 5 | | 75 | 119 | 20 |

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

## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

| | | | |
|---|---|---|---|
| **SDG No.:** | **Q3195** | **Analytical Method:** | **SW8260-Low** |
| **Client:** | **TechLaw Consultants, Inc** | **Datafile :** | VV039171.D |

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VV0925WBS01 | Dichlorodifluoromethane | 20 | 18.2 | ug/L | 91 | | | 69 | 116 | |
| | Chloromethane | 20 | 19.1 | ug/L | 96 | | | 65 | 116 | |
| | Vinyl chloride | 20 | 19.4 | ug/L | 97 | | | 65 | 117 | |
| | Bromomethane | 20 | 18.7 | ug/L | 94 | | | 58 | 125 | |
| | Chloroethane | 20 | 19.3 | ug/L | 97 | | | 56 | 128 | |
| | Trichlorofluoromethane | 20 | 19.4 | ug/L | 97 | | | 73 | 115 | |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 20.0 | ug/L | 100 | | | 80 | 112 | |
| | 1,1-Dichloroethene | 20 | 19.9 | ug/L | 100 | | | 74 | 110 | |
| | Acetone | 100 | 89.0 | ug/L | 89 | | | 60 | 125 | |
| | Carbon disulfide | 20 | 19.0 | ug/L | 95 | | | 64 | 112 | |
| | Methyl tert-butyl Ether | 20 | 20.0 | ug/L | 100 | | | 78 | 114 | |
| | Methyl Acetate | 20 | 21.2 | ug/L | 106 | | | 67 | 125 | |
| | Methylene Chloride | 20 | 20.6 | ug/L | 103 | | | 72 | 114 | |
| | trans-1,2-Dichloroethene | 20 | 19.7 | ug/L | 99 | | | 75 | 108 | |
| | 1,1-Dichloroethane | 20 | 19.3 | ug/L | 97 | | | 78 | 112 | |
| | Cyclohexane | 20 | 18.2 | ug/L | 91 | | | 75 | 110 | |
| | 2-Butanone | 100 | 97.1 | ug/L | 97 | | | 65 | 122 | |
| | Carbon Tetrachloride | 20 | 19.4 | ug/L | 97 | | | 77 | 113 | |
| | cis-1,2-Dichloroethene | 20 | 19.5 | ug/L | 98 | | | 77 | 110 | |
| | Bromochloromethane | 20 | 20.5 | ug/L | 103 | | | 70 | 124 | |
| | Chloroform | 20 | 19.2 | ug/L | 96 | | | 79 | 113 | |
| | 1,1,1-Trichloroethane | 20 | 19.0 | ug/L | 95 | | | 80 | 108 | |
| | Methylcyclohexane | 20 | 19.2 | ug/L | 96 | | | 72 | 115 | |
| | Benzene | 20 | 19.9 | ug/L | 100 | | | 82 | 109 | |
| | 1,2-Dichloroethane | 20 | 19.6 | ug/L | 98 | | | 80 | 115 | |
| | Trichloroethene | 20 | 20.4 | ug/L | 102 | | | 77 | 113 | |
| | 1,2-Dichloropropane | 20 | 20.5 | ug/L | 103 | | | 83 | 111 | |
| | Bromodichloromethane | 20 | 19.3 | ug/L | 97 | | | 83 | 110 | |
| | 4-Methyl-2-Pentanone | 100 | 110 | ug/L | 110 | | | 74 | 118 | |
| | Toluene | 20 | 21.5 | ug/L | 108 | | | 82 | 110 | |
| | t-1,3-Dichloropropene | 20 | 20.1 | ug/L | 101 | | | 79 | 110 | |
| | cis-1,3-Dichloropropene | 20 | 20.2 | ug/L | 101 | | | 82 | 110 | |
| | 1,1,2-Trichloroethane | 20 | 20.0 | ug/L | 100 | | | 83 | 112 | |
| | 2-Hexanone | 100 | 99.6 | ug/L | 100 | | | 73 | 117 | |
| | Dibromochloromethane | 20 | 20.2 | ug/L | 101 | | | 82 | 110 | |
| | 1,2-Dibromoethane | 20 | 20.6 | ug/L | 103 | | | 81 | 110 | |
| | Tetrachloroethene | 20 | 20.2 | ug/L | 101 | | | 67 | 123 | |
| | Chlorobenzene | 20 | 20.1 | ug/L | 101 | | | 82 | 109 | |
| | Ethyl Benzene | 20 | 20.0 | ug/L | 100 | | | 83 | 109 | |
| | m/p-Xylenes | 40 | 43.1 | ug/L | 108 | | | 82 | 110 | |
| | o-Xylene | 20 | 21.0 | ug/L | 105 | | | 83 | 109 | |
| | Styrene | 20 | 19.3 | ug/L | 97 | | | 80 | 111 | |
| | Bromoform | 20 | 20.5 | ug/L | 103 | | | 79 | 109 | |
| | Isopropylbenzene | 20 | 20.6 | ug/L | 103 | | | 83 | 112 | |
| | 1,1,2,2-Tetrachloroethane | 20 | 19.4 | ug/L | 97 | | | 76 | 118 | |
| | 1,3-Dichlorobenzene | 20 | 19.6 | ug/L | 98 | | | 82 | 108 | |
| | 1,4-Dichlorobenzene | 20 | 18.9 | ug/L | 95 | | | 82 | 107 | |
| | 1,2-Dichlorobenzene | 20 | 19.8 | ug/L | 99 | | | 82 | 109 | |

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

## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

| | | | |
|---|---|---|---|
| **SDG No.:** | **Q3195** | **Analytical Method:** | **SW8260-Low** |
| **Client:** | **TechLaw Consultants, Inc** | **Datafile :** | VV039171.D |

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| **VV0925WBS01** | 1,2-Dibromo-3-Chloropropane | 20 | 22.1 | ug/L | 111 | | | 68 | 112 | |
| | 1,2,4-Trichlorobenzene | 20 | 19.2 | ug/L | 96 | | | 75 | 113 | |
| | 1,2,3-Trichlorobenzene | 20 | 19.9 | ug/L | 100 | | | 76 | 114 | |

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

## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q3195 **Analytical Method:** SW8260-Low

**Client:** TechLaw Consultants, Inc **Datafile :** VV039201.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VV0926WBS01 | Dichlorodifluoromethane | 20 | 17.8 | ug/L | 89 | | | 69 | 116 | |
| | Chloromethane | 20 | 17.6 | ug/L | 88 | | | 65 | 116 | |
| | Vinyl chloride | 20 | 18.7 | ug/L | 94 | | | 65 | 117 | |
| | Bromomethane | 20 | 18.5 | ug/L | 93 | | | 58 | 125 | |
| | Chloroethane | 20 | 19.3 | ug/L | 97 | | | 56 | 128 | |
| | Trichlorofluoromethane | 20 | 19.0 | ug/L | 95 | | | 73 | 115 | |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 18.8 | ug/L | 94 | | | 80 | 112 | |
| | 1,1-Dichloroethene | 20 | 19.2 | ug/L | 96 | | | 74 | 110 | |
| | Acetone | 100 | 86.4 | ug/L | 86 | | | 60 | 125 | |
| | Carbon disulfide | 20 | 17.9 | ug/L | 90 | | | 64 | 112 | |
| | Methyl tert-butyl Ether | 20 | 19.2 | ug/L | 96 | | | 78 | 114 | |
| | Methyl Acetate | 20 | 19.9 | ug/L | 100 | | | 67 | 125 | |
| | Methylene Chloride | 20 | 19.9 | ug/L | 100 | | | 72 | 114 | |
| | trans-1,2-Dichloroethene | 20 | 19.2 | ug/L | 96 | | | 75 | 108 | |
| | 1,1-Dichloroethane | 20 | 18.5 | ug/L | 93 | | | 78 | 112 | |
| | Cyclohexane | 20 | 16.7 | ug/L | 84 | | | 75 | 110 | |
| | 2-Butanone | 100 | 90.9 | ug/L | 91 | | | 65 | 122 | |
| | Carbon Tetrachloride | 20 | 18.0 | ug/L | 90 | | | 77 | 113 | |
| | cis-1,2-Dichloroethene | 20 | 18.7 | ug/L | 94 | | | 77 | 110 | |
| | Bromochloromethane | 20 | 19.1 | ug/L | 96 | | | 70 | 124 | |
| | Chloroform | 20 | 18.4 | ug/L | 92 | | | 79 | 113 | |
| | 1,1,1-Trichloroethane | 20 | 17.8 | ug/L | 89 | | | 80 | 108 | |
| | Methylcyclohexane | 20 | 17.0 | ug/L | 85 | | | 72 | 115 | |
| | Benzene | 20 | 19.0 | ug/L | 95 | | | 82 | 109 | |
| | 1,2-Dichloroethane | 20 | 18.5 | ug/L | 93 | | | 80 | 115 | |
| | Trichloroethene | 20 | 20.1 | ug/L | 101 | | | 77 | 113 | |
| | 1,2-Dichloropropane | 20 | 19.7 | ug/L | 99 | | | 83 | 111 | |
| | Bromodichloromethane | 20 | 18.9 | ug/L | 95 | | | 83 | 110 | |
| | 4-Methyl-2-Pentanone | 100 | 100 | ug/L | 100 | | | 74 | 118 | |
| | Toluene | 20 | 20.3 | ug/L | 102 | | | 82 | 110 | |
| | t-1,3-Dichloropropene | 20 | 20.1 | ug/L | 101 | | | 79 | 110 | |
| | cis-1,3-Dichloropropene | 20 | 20.7 | ug/L | 104 | | | 82 | 110 | |
| | 1,1,2-Trichloroethane | 20 | 19.3 | ug/L | 97 | | | 83 | 112 | |
| | 2-Hexanone | 100 | 92.5 | ug/L | 93 | | | 73 | 117 | |
| | Dibromochloromethane | 20 | 19.5 | ug/L | 98 | | | 82 | 110 | |
| | 1,2-Dibromoethane | 20 | 20.2 | ug/L | 101 | | | 81 | 110 | |
| | Tetrachloroethene | 20 | 19.5 | ug/L | 98 | | | 67 | 123 | |
| | Chlorobenzene | 20 | 19.3 | ug/L | 97 | | | 82 | 109 | |
| | Ethyl Benzene | 20 | 19.4 | ug/L | 97 | | | 83 | 109 | |
| | m/p-Xylenes | 40 | 41.8 | ug/L | 104 | | | 82 | 110 | |
| | o-Xylene | 20 | 20.2 | ug/L | 101 | | | 83 | 109 | |
| | Styrene | 20 | 18.8 | ug/L | 94 | | | 80 | 111 | |
| | Bromoform | 20 | 20.4 | ug/L | 102 | | | 79 | 109 | |
| | Isopropylbenzene | 20 | 19.0 | ug/L | 95 | | | 83 | 112 | |
| | 1,1,2,2-Tetrachloroethane | 20 | 18.1 | ug/L | 91 | | | 76 | 118 | |
| | 1,3-Dichlorobenzene | 20 | 19.2 | ug/L | 96 | | | 82 | 108 | |
| | 1,4-Dichlorobenzene | 20 | 18.3 | ug/L | 92 | | | 82 | 107 | |
| | 1,2-Dichlorobenzene | 20 | 18.9 | ug/L | 95 | | | 82 | 109 | |

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

## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

| | | | |
|---|---|---|---|
| **SDG No.:** | **Q3195** | **Analytical Method:** | **SW8260-Low** |
| **Client:** | **TechLaw Consultants, Inc** | **Datafile :** | VV039201.D |

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| **VV0926WBS01** | 1,2-Dibromo-3-Chloropropane | 20 | 21.5 | ug/L | 108 | | | 68 | 112 | |
| | 1,2,4-Trichlorobenzene | 20 | 18.3 | ug/L | 92 | | | 75 | 113 | |
| | 1,2,3-Trichlorobenzene | 20 | 18.4 | ug/L | 92 | | | 76 | 114 | |

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

## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

| | | | |
|---|---|---|---|
| **SDG No.:** | **Q3195** | **Analytical Method:** | **SW8260-Low** |
| **Client:** | **TechLaw Consultants, Inc** | **Datafile :** | VV039224.D |

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VV0929WBS01 | Dichlorodifluoromethane | 20 | 18.5 | ug/L | 93 | | | 69 | 116 | |
| | Chloromethane | 20 | 18.5 | ug/L | 93 | | | 65 | 116 | |
| | Vinyl chloride | 20 | 18.5 | ug/L | 93 | | | 65 | 117 | |
| | Bromomethane | 20 | 19.4 | ug/L | 97 | | | 58 | 125 | |
| | Chloroethane | 20 | 19.3 | ug/L | 97 | | | 56 | 128 | |
| | Trichlorofluoromethane | 20 | 19.9 | ug/L | 100 | | | 73 | 115 | |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 19.7 | ug/L | 99 | | | 80 | 112 | |
| | 1,1-Dichloroethene | 20 | 19.9 | ug/L | 100 | | | 74 | 110 | |
| | Acetone | 100 | 84.9 | ug/L | 85 | | | 60 | 125 | |
| | Carbon disulfide | 20 | 17.5 | ug/L | 88 | | | 64 | 112 | |
| | Methyl tert-butyl Ether | 20 | 20.6 | ug/L | 103 | | | 78 | 114 | |
| | Methyl Acetate | 20 | 23.1 | ug/L | 116 | | | 67 | 125 | |
| | Methylene Chloride | 20 | 20.5 | ug/L | 103 | | | 72 | 114 | |
| | trans-1,2-Dichloroethene | 20 | 19.8 | ug/L | 99 | | | 75 | 108 | |
| | 1,1-Dichloroethane | 20 | 19.1 | ug/L | 96 | | | 78 | 112 | |
| | Cyclohexane | 20 | 16.8 | ug/L | 84 | | | 75 | 110 | |
| | 2-Butanone | 100 | 98.5 | ug/L | 99 | | | 65 | 122 | |
| | Carbon Tetrachloride | 20 | 20.7 | ug/L | 104 | | | 77 | 113 | |
| | cis-1,2-Dichloroethene | 20 | 19.5 | ug/L | 98 | | | 77 | 110 | |
| | Bromochloromethane | 20 | 20.5 | ug/L | 103 | | | 70 | 124 | |
| | Chloroform | 20 | 19.3 | ug/L | 97 | | | 79 | 113 | |
| | 1,1,1-Trichloroethane | 20 | 19.2 | ug/L | 96 | | | 80 | 108 | |
| | Methylcyclohexane | 20 | 17.7 | ug/L | 89 | | | 72 | 115 | |
| | Benzene | 20 | 20.6 | ug/L | 103 | | | 82 | 109 | |
| | 1,2-Dichloroethane | 20 | 20.5 | ug/L | 103 | | | 80 | 115 | |
| | Trichloroethene | 20 | 22.1 | ug/L | 111 | | | 77 | 113 | |
| | 1,2-Dichloropropane | 20 | 20.4 | ug/L | 102 | | | 83 | 111 | |
| | Bromodichloromethane | 20 | 20.8 | ug/L | 104 | | | 83 | 110 | |
| | 4-Methyl-2-Pentanone | 100 | 120 | ug/L | 120 | | * | 74 | 118 | |
| | Toluene | 20 | 22.1 | ug/L | 111 | | * | 82 | 110 | |
| | t-1,3-Dichloropropene | 20 | 21.3 | ug/L | 106 | | | 79 | 110 | |
| | cis-1,3-Dichloropropene | 20 | 21.6 | ug/L | 108 | | | 82 | 110 | |
| | 1,1,2-Trichloroethane | 20 | 22.1 | ug/L | 111 | | | 83 | 112 | |
| | 2-Hexanone | 100 | 110 | ug/L | 110 | | | 73 | 117 | |
| | Dibromochloromethane | 20 | 22.0 | ug/L | 110 | | | 82 | 110 | |
| | 1,2-Dibromoethane | 20 | 22.1 | ug/L | 111 | | * | 81 | 110 | |
| | Tetrachloroethene | 20 | 22.0 | ug/L | 110 | | | 67 | 123 | |
| | Chlorobenzene | 20 | 20.6 | ug/L | 103 | | | 82 | 109 | |
| | Ethyl Benzene | 20 | 20.7 | ug/L | 104 | | | 83 | 109 | |
| | m/p-Xylenes | 40 | 44.5 | ug/L | 111 | | * | 82 | 110 | |
| | o-Xylene | 20 | 21.5 | ug/L | 108 | | | 83 | 109 | |
| | Styrene | 20 | 20.4 | ug/L | 102 | | | 80 | 111 | |
| | Bromoform | 20 | 23.6 | ug/L | 118 | | * | 79 | 109 | |
| | Isopropylbenzene | 20 | 19.4 | ug/L | 97 | | | 83 | 112 | |
| | 1,1,2,2-Tetrachloroethane | 20 | 18.9 | ug/L | 95 | | | 76 | 118 | |
| | 1,3-Dichlorobenzene | 20 | 20.2 | ug/L | 101 | | | 82 | 108 | |
| | 1,4-Dichlorobenzene | 20 | 19.6 | ug/L | 98 | | | 82 | 107 | |
| | 1,2-Dichlorobenzene | 20 | 19.7 | ug/L | 99 | | | 82 | 109 | |

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

## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

| | | | |
|---|---|---|---|
| **SDG No.:** | **Q3195** | **Analytical Method:** | **SW8260-Low** |
| **Client:** | **TechLaw Consultants, Inc** | **Datafile :** | VV039224.D |

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| **VV0929WBS01** | 1,2-Dibromo-3-Chloropropane | 20 | 22.3 | ug/L | 112 | | | 68 | 112 | |
| | 1,2,4-Trichlorobenzene | 20 | 20.0 | ug/L | 100 | | | 75 | 113 | |
| | 1,2,3-Trichlorobenzene | 20 | 20.6 | ug/L | 103 | | | 76 | 114 | |

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

# VOLATILE METHOD BLANK SUMMARY

Client ID: VV0925WBL01

Lab Name: Alliance Contract: TECH05

Lab Code: ACE SDG NO.: Q3195

Lab File ID: VV039170.D Lab Sample ID: VV0925WBL01

Date Analyzed: 09/25/2025 Time Analyzed: 11:01

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_V

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| VV0925WBS01 | VV0925WBS01 | VV039171.D | 09/25/2025 |
| RW-1-092425 | Q3195-22 | VV039186.D | 09/25/2025 |
| EB-01-091925 | Q3195-23 | VV039187.D | 09/25/2025 |
| FB-01-091925 | Q3195-25 | VV039189.D | 09/25/2025 |
| FB-02-092225 | Q3195-26 | VV039190.D | 09/25/2025 |
| TB-01-091525 | Q3195-27 | VV039191.D | 09/25/2025 |
| MW-1-091725 | Q3195-02 | VV039192.D | 09/25/2025 |
| MW-22-091825 | Q3195-09 | VV039193.D | 09/25/2025 |
| MW-23-092325 | Q3195-10 | VV039194.D | 09/25/2025 |
| MW-24-091925 | Q3195-11 | VV039195.D | 09/25/2025 |

COMMENTS:

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

# VOLATILE METHOD BLANK SUMMARY

Client ID: VV0926WBL01

Lab Name: Alliance Contract: TECH05

Lab Code: ACE SDG NO.: Q3195

Lab File ID: VV039200.D Lab Sample ID: VV0926WBL01

Date Analyzed: 09/26/2025 Time Analyzed: 10:23

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_V

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| VV0926WBS01 | VV0926WBS01 | VV039201.D | 09/26/2025 |
| EB-02-092225 | Q3195-24 | VV039203.D | 09/26/2025 |
| MW-26-091925 | Q3195-12 | VV039204.D | 09/26/2025 |
| MW-4-091625 | Q3195-04 | VV039205.D | 09/26/2025 |
| MOS-18-092225 | Q3195-01 | VV039206.D | 09/26/2025 |
| MW-3-091525 | Q3195-03 | VV039207.D | 09/26/2025 |
| MW-6-091625 | Q3195-05 | VV039208.D | 09/26/2025 |
| MW-19D-092225 | Q3195-06 | VV039209.D | 09/26/2025 |
| MW-21M-091925 | Q3195-08 | VV039211.D | 09/26/2025 |
| MW-26-091925-FD | Q3195-13 | VV039212.D | 09/26/2025 |
| MW-29-092325 | Q3195-14 | VV039213.D | 09/26/2025 |
| MW-31S-091825 | Q3195-15 | VV039214.D | 09/26/2025 |
| MW-31D-091825 | Q3195-16 | VV039215.D | 09/26/2025 |
| MW-31D-091825-FD | Q3195-17 | VV039216.D | 09/26/2025 |

COMMENTS:

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

# VOLATILE METHOD BLANK SUMMARY

Client ID: VV0929WBL01

Lab Name: Alliance Contract: TECH05

Lab Code: ACE SDG NO.: Q3195

Lab File ID: VV039223.D Lab Sample ID: VV0929WBL01

Date Analyzed: 09/29/2025 Time Analyzed: 12:00

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_V

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| VV0929WBS01 | VV0929WBS01 | VV039224.D | 09/29/2025 |
| MW-31S-091825DL | Q3195-15DL | VV039226.D | 09/29/2025 |
| MW-32S-091725 | Q3195-18 | VV039227.D | 09/29/2025 |
| MW-33D-091725 | Q3195-19 | VV039228.D | 09/29/2025 |
| MW-19M-092325 | Q3195-07 | VV039229.D | 09/29/2025 |
| MW-31D-091825DL | Q3195-16DL | VV039230.D | 09/29/2025 |
| MW-31D-091825-FDDL | Q3195-17DL | VV039231.D | 09/29/2025 |
| MW-33D-091725MS | Q3195-20MS | VV039237.D | 09/29/2025 |
| MW-33D-091725MSD | Q3195-21MSD | VV039238.D | 09/29/2025 |

COMMENTS:

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

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

Lab Name: Alliance | Contract: TECH05

Lab Code: ACE | SDG NO.: Q3195

Lab File ID: VV039134.D | BFB Injection Date: 09/22/2025

Instrument ID: MSVOA_V | BFB Injection Time: 10:15

GC Column: DB-624UI ID: 0.18 (mm) | Heated Purge: Y/N N

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 19.6 |
| 75 | 30.0 - 60.0% of mass 95 | 51.9 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 7.1 |
| 173 | Less than 2.0% of mass 174 | 1.1 ( 1.6 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 73.3 |
| 175 | 5.0 - 9.0% of mass 174 | 5.5 ( 7.5 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 70.4 ( 96 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.4 ( 6.3 ) 2 |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDICC010 | VSTDICC010 | VV039137.D | 09/22/2025 | 12:26 |
| VSTDICC020 | VSTDICC020 | VV039138.D | 09/22/2025 | 12:48 |
| VSTDICCC050 | VSTDICCC050 | VV039139.D | 09/22/2025 | 13:26 |
| VSTDICC100 | VSTDICC100 | VV039140.D | 09/22/2025 | 13:49 |
| VSTDICC005 | VSTDICC005 | VV039142.D | 09/22/2025 | 15:37 |
| VSTDICC001 | VSTDICC001 | VV039143.D | 09/22/2025 | 16:35 |

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

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

Lab Name: Alliance
Contract: TECH05
Lab Code: ACE
SDG NO.: Q3195
Lab File ID: VV039167.D
BFB Injection Date: 09/25/2025
Instrument ID: MSVOA_V
BFB Injection Time: 09:14
GC Column: DB-624UI ID: 0.18 (mm)
Heated Purge: Y/N N

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 16.2 |
| 75 | 30.0 - 60.0% of mass 95 | 49.9 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.3 |
| 173 | Less than 2.0% of mass 174 | 1.3 ( 1.7 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 72.3 |
| 175 | 5.0 - 9.0% of mass 174 | 5.7 ( 7.9 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 69.9 ( 96.6 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.4 ( 6.3 ) 2 |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC050 | VSTDCCC050 | VV039168.D | 09/25/2025 | 09:59 |
| VV0925WBL01 | VV0925WBL01 | VV039170.D | 09/25/2025 | 11:01 |
| VV0925WBS01 | VV0925WBS01 | VV039171.D | 09/25/2025 | 11:24 |
| RW-1-092425 | Q3195-22 | VV039186.D | 09/25/2025 | 17:03 |
| EB-01-091925 | Q3195-23 | VV039187.D | 09/25/2025 | 17:25 |
| FB-01-091925 | Q3195-25 | VV039189.D | 09/25/2025 | 18:10 |
| FB-02-092225 | Q3195-26 | VV039190.D | 09/25/2025 | 18:32 |
| TB-01-091525 | Q3195-27 | VV039191.D | 09/25/2025 | 18:55 |
| MW-1-091725 | Q3195-02 | VV039192.D | 09/25/2025 | 19:17 |
| MW-22-091825 | Q3195-09 | VV039193.D | 09/25/2025 | 19:40 |
| MW-23-092325 | Q3195-10 | VV039194.D | 09/25/2025 | 20:02 |
| MW-24-091925 | Q3195-11 | VV039195.D | 09/25/2025 | 20:25 |

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

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

Lab Name: Alliance | Contract: TECH05

Lab Code: ACE | SDG NO.: Q3195

Lab File ID: VV039197.D | BFB Injection Date: 09/26/2025

Instrument ID: MSVOA_V | BFB Injection Time: 08:14

GC Column: DB-624UI ID: 0.18 (mm) | Heated Purge: Y/N N

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 16.9 |
| 75 | 30.0 - 60.0% of mass 95 | 48.7 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.4 |
| 173 | Less than 2.0% of mass 174 | 1 ( 1.4 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 73.6 |
| 175 | 5.0 - 9.0% of mass 174 | 6.5 ( 8.8 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 71.7 ( 97.4 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.9 ( 6.8 ) 2 |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC050 | VSTDCCC050 | VV039198.D | 09/26/2025 | 09:20 |
| VV0926WBL01 | VV0926WBL01 | VV039200.D | 09/26/2025 | 10:23 |
| VV0926WBS01 | VV0926WBS01 | VV039201.D | 09/26/2025 | 10:49 |
| EB-02-092225 | Q3195-24 | VV039203.D | 09/26/2025 | 11:36 |
| MW-26-091925 | Q3195-12 | VV039204.D | 09/26/2025 | 11:58 |
| MW-4-091625 | Q3195-04 | VV039205.D | 09/26/2025 | 12:21 |
| MOS-18-092225 | Q3195-01 | VV039206.D | 09/26/2025 | 12:43 |
| MW-3-091525 | Q3195-03 | VV039207.D | 09/26/2025 | 13:06 |
| MW-6-091625 | Q3195-05 | VV039208.D | 09/26/2025 | 13:28 |
| MW-19D-092225 | Q3195-06 | VV039209.D | 09/26/2025 | 13:51 |
| MW-21M-091925 | Q3195-08 | VV039211.D | 09/26/2025 | 14:36 |
| MW-26-091925-FD | Q3195-13 | VV039212.D | 09/26/2025 | 14:58 |
| MW-29-092325 | Q3195-14 | VV039213.D | 09/26/2025 | 15:20 |
| MW-31S-091825 | Q3195-15 | VV039214.D | 09/26/2025 | 15:43 |
| MW-31D-091825 | Q3195-16 | VV039215.D | 09/26/2025 | 16:05 |
| MW-31D-091825-FD | Q3195-17 | VV039216.D | 09/26/2025 | 16:28 |

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

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

Lab Name: Alliance | Contract: TECH05

Lab Code: ACE | SDG NO.: Q3195

Lab File ID: VV039220.D | BFB Injection Date: 09/29/2025

Instrument ID: MSVOA_V | BFB Injection Time: 09:48

GC Column: DB-624UI ID: 0.18 (mm) | Heated Purge: Y/N N

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 16.6 |
| 75 | 30.0 - 60.0% of mass 95 | 46.3 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6 |
| 173 | Less than 2.0% of mass 174 | 1.3 ( 1.7 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 75.5 |
| 175 | 5.0 - 9.0% of mass 174 | 6.3 ( 8.3 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 72.5 ( 96.1 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.5 ( 6.2 ) 2 |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC050 | VSTDCCC050 | VV039221.D | 09/29/2025 | 11:11 |
| VV0929WBL01 | VV0929WBL01 | VV039223.D | 09/29/2025 | 12:00 |
| VV0929WBS01 | VV0929WBS01 | VV039224.D | 09/29/2025 | 12:23 |
| MW-31S-091825DL | Q3195-15DL | VV039226.D | 09/29/2025 | 13:08 |
| MW-32S-091725 | Q3195-18 | VV039227.D | 09/29/2025 | 13:31 |
| MW-33D-091725 | Q3195-19 | VV039228.D | 09/29/2025 | 13:53 |
| MW-19M-092325 | Q3195-07 | VV039229.D | 09/29/2025 | 14:16 |
| MW-31D-091825DL | Q3195-16DL | VV039230.D | 09/29/2025 | 14:38 |
| MW-31D-091825-FDDL | Q3195-17DL | VV039231.D | 09/29/2025 | 15:01 |
| MW-33D-091725MS | Q3195-20MS | VV039237.D | 09/29/2025 | 17:15 |
| MW-33D-091725MSD | Q3195-21MSD | VV039238.D | 09/29/2025 | 17:38 |

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

## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: TECH05

Lab Code: ACE SDG NO.: Q3195

Lab File ID: VV039168.D Date Analyzed: 09/25/2025

Instrument ID: MSVOA_V Time Analyzed: 09:59

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

| | IS1 AREA # | RT # | IS2 AREA # | RT # | IS3 AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 605297 | 4.60 | 933338 | 5.53 | 901987 | 8.77 |
| UPPER LIMIT | 1210590 | 5.096 | 1866680 | 6.029 | 1803970 | 9.273 |
| LOWER LIMIT | 302649 | 4.096 | 466669 | 5.029 | 450994 | 8.273 |
| EPA SAMPLE NO. | | | | | | |
| MW-1-091725 | 535790 | 4.60 | 971101 | 5.53 | 956100 | 8.78 |
| MW-22-091825 | 525270 | 4.60 | 956838 | 5.54 | 943207 | 8.78 |
| MW-23-092325 | 518728 | 4.60 | 934521 | 5.54 | 917520 | 8.78 |
| MW-24-091925 | 515327 | 4.60 | 928629 | 5.54 | 925762 | 8.78 |
| RW-1-092425 | 349429 | 4.60 | 628697 | 5.54 | 611801 | 8.78 |
| EB-01-091925 | 360957 | 4.60 | 632244 | 5.54 | 624309 | 8.78 |
| FB-01-091925 | 562300 | 4.60 | 1002078 | 5.54 | 977857 | 8.78 |
| FB-02-092225 | 557526 | 4.60 | 1004933 | 5.53 | 984426 | 8.78 |
| TB-01-091525 | 466916 | 4.60 | 828915 | 5.54 | 809498 | 8.78 |
| VV0925WBL01 | 480047 | 4.60 | 864912 | 5.53 | 870930 | 8.78 |
| VV0925WBS01 | 557017 | 4.60 | 898902 | 5.54 | 871912 | 8.78 |

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

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

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

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

## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: TECH05

Lab Code: ACE SDG NO.: Q3195

Lab File ID: VV039168.D Date Analyzed: 09/25/2025

Instrument ID: MSVOA_V Time Analyzed: 09:59

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

| | IS4 AREA # | RT # | | | | |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 535710 | 11.172 | | | | |
| UPPER LIMIT | 1071420 | 11.672 | | | | |
| LOWER LIMIT | 267855 | 10.672 | | | | |
| EPA SAMPLE NO. | | | | | | |
| MW-1-091725 | 458217 | 11.17 | | | | |
| MW-22-091825 | 451495 | 11.18 | | | | |
| MW-23-092325 | 439919 | 11.17 | | | | |
| MW-24-091925 | 442595 | 11.17 | | | | |
| RW-1-092425 | 288234 | 11.18 | | | | |
| EB-01-091925 | 293380 | 11.18 | | | | |
| FB-01-091925 | 478832 | 11.18 | | | | |
| FB-02-092225 | 478455 | 11.18 | | | | |
| TB-01-091525 | 384637 | 11.18 | | | | |
| VV0925WBL01 | 413592 | 11.18 | | | | |
| VV0925WBS01 | 508947 | 11.17 | | | | |

IS4 = 1,4-Dichlorobenzene-d4

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

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

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

## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: TECH05

Lab Code: ACE SDG NO.: Q3195

Lab File ID: VV039198.D Date Analyzed: 09/26/2025

Instrument ID: MSVOA_V Time Analyzed: 09:20

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

| | IS1 AREA # | RT # | IS2 AREA # | RT # | IS3 AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 568268 | 4.60 | 890856 | 5.53 | 851107 | 8.77 |
| UPPER LIMIT | 1136540 | 5.097 | 1781710 | 6.029 | 1702210 | 9.273 |
| LOWER LIMIT | 284134 | 4.097 | 445428 | 5.029 | 425554 | 8.273 |
| EPA SAMPLE NO. | | | | | | |
| MOS-18-092225 | 335184 | 4.60 | 584917 | 5.54 | 609610 | 8.78 |
| MW-3-091525 | 599898 | 4.60 | 1062714 | 5.53 | 1062408 | 8.78 |
| MW-4-091625 | 513652 | 4.60 | 924164 | 5.54 | 911885 | 8.78 |
| MW-6-091625 | 374514 | 4.60 | 660135 | 5.54 | 675751 | 8.78 |
| MW-19D-092225 | 344932 | 4.60 | 614959 | 5.54 | 627934 | 8.78 |
| MW-21M-091925 | 513487 | 4.60 | 944501 | 5.54 | 957014 | 8.78 |
| MW-26-091925 | 486629 | 4.60 | 867427 | 5.54 | 873266 | 8.78 |
| MW-26-091925-FD | 454191 | 4.60 | 813227 | 5.54 | 842320 | 8.78 |
| MW-29-092325 | 450640 | 4.60 | 819940 | 5.54 | 841715 | 8.78 |
| MW-31S-091825 | 444783 | 4.60 | 811223 | 5.54 | 838423 | 8.78 |
| MW-31D-091825 | 523421 | 4.60 | 967034 | 5.54 | 980974 | 8.78 |
| MW-31D-091825-FD | 333282 | 4.60 | 591720 | 5.54 | 612863 | 8.78 |
| EB-02-092225 | 509169 | 4.60 | 912297 | 5.54 | 888919 | 8.78 |
| VV0926WBL01 | 488972 | 4.60 | 870889 | 5.54 | 870759 | 8.78 |
| VV0926WBS01 | 545170 | 4.60 | 871681 | 5.53 | 834845 | 8.78 |

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

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

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

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

## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: TECH05

Lab Code: ACE SDG NO.: Q3195

Lab File ID: VV039198.D Date Analyzed: 09/26/2025

Instrument ID: MSVOA_V Time Analyzed: 09:20

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

| | IS4 AREA # | RT # | | | | |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 503461 | 11.172 | | | | |
| UPPER LIMIT | 1006920 | 11.672 | | | | |
| LOWER LIMIT | 251731 | 10.672 | | | | |
| EPA SAMPLE NO. | | | | | | |
| MOS-18-092225 | 284053 | 11.18 | | | | |
| MW-3-091525 | 512995 | 11.18 | | | | |
| MW-4-091625 | 438479 | 11.17 | | | | |
| MW-6-091625 | 313063 | 11.18 | | | | |
| MW-19D-092225 | 291769 | 11.18 | | | | |
| MW-21M-091925 | 451121 | 11.18 | | | | |
| MW-26-091925 | 420754 | 11.18 | | | | |
| MW-26-091925-FD | 398907 | 11.17 | | | | |
| MW-29-092325 | 391674 | 11.18 | | | | |
| MW-31S-091825 | 399971 | 11.17 | | | | |
| MW-31D-091825 | 469900 | 11.18 | | | | |
| MW-31D-091825-FD | 282611 | 11.17 | | | | |
| EB-02-092225 | 432706 | 11.17 | | | | |
| VV0926WBL01 | 422120 | 11.18 | | | | |
| VV0926WBS01 | 490803 | 11.17 | | | | |

IS4 = 1,4-Dichlorobenzene-d4

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

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

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

## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: TECH05

Lab Code: ACE SDG NO.: Q3195

Lab File ID: VV039221.D Date Analyzed: 09/29/2025

Instrument ID: MSVOA_V Time Analyzed: 11:11

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

| | IS1 AREA # | RT # | IS2 AREA # | RT # | IS3 AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 564484 | 4.60 | 842301 | 5.53 | 811375 | 8.77 |
| UPPER LIMIT | 1128970 | 5.096 | 1684600 | 6.032 | 1622750 | 9.273 |
| LOWER LIMIT | 282242 | 4.096 | 421151 | 5.032 | 405688 | 8.273 |
| EPA SAMPLE NO. | | | | | | |
| MW-19M-092325 | 435615 | 4.60 | 743567 | 5.54 | 762813 | 8.78 |
| MW-31S-091825DL | 520194 | 4.60 | 885532 | 5.54 | 868036 | 8.78 |
| MW-31D-091825DL | 458405 | 4.60 | 805402 | 5.54 | 812071 | 8.78 |
| MW-31D-091825-FDDL | 456320 | 4.60 | 803964 | 5.54 | 819993 | 8.78 |
| MW-32S-091725 | 474559 | 4.60 | 811077 | 5.54 | 824686 | 8.78 |
| MW-33D-091725 | 463190 | 4.60 | 796521 | 5.54 | 800959 | 8.78 |
| MW-33D-091725MS | 494074 | 4.60 | 722914 | 5.53 | 717971 | 8.78 |
| MW-33D-091725MSD | 540727 | 4.60 | 801849 | 5.53 | 776445 | 8.78 |
| VV0929WBL01 | 463653 | 4.60 | 797576 | 5.54 | 809645 | 8.78 |
| VV0929WBS01 | 516454 | 4.60 | 792956 | 5.54 | 778611 | 8.78 |

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

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

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

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

## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: TECH05

Lab Code: ACE SDG NO.: Q3195

Lab File ID: VV039221.D Date Analyzed: 09/29/2025

Instrument ID: MSVOA_V Time Analyzed: 11:11

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

| | IS4 AREA # | RT # | | | | |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 505725 | 11.172 | | | | |
| UPPER LIMIT | 1011450 | 11.672 | | | | |
| LOWER LIMIT | 252863 | 10.672 | | | | |
| EPA SAMPLE NO. | | | | | | |
| MW-19M-092325 | 378816 | 11.18 | | | | |
| MW-31S-091825DL | 445110 | 11.18 | | | | |
| MW-31D-091825DL | 405371 | 11.17 | | | | |
| MW-31D-091825-FDDL | 404883 | 11.18 | | | | |
| MW-32S-091725 | 412882 | 11.18 | | | | |
| MW-33D-091725 | 398638 | 11.18 | | | | |
| MW-33D-091725MS | 463779 | 11.17 | | | | |
| MW-33D-091725MSD | 497049 | 11.17 | | | | |
| VV0929WBL01 | 403956 | 11.18 | | | | |
| VV0929WBS01 | 484149 | 11.17 | | | | |

IS4 = 1,4-Dichlorobenzene-d4

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

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

# SAMPLE DATA

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/22/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MOS-18-092225 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039206.D | 1 | 09/26/25 12:43 | VV092625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 9.70 | | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.49 | J | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 2.50 | | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 1.50 | U | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 0.27 | U | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 1.50 | U | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 2.80 | | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.25 | U | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.16 | U | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 2.20 | | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | U | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.14 | U | 0.14 | 1.00 | ug/L |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/22/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MOS-18-092225 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039206.D | 1 | 09/26/25 12:43 | VV092625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.15 | U | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 32.7 | | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | U | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | U | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.53 | U | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 59.6 | | 74 - 125 | 119% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 58.1 | | 75 - 124 | 116% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 47.1 | | 86 - 113 | 94% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 43.9 | | 77 - 121 | 88% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 335000 | 4.6 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 585000 | 5.535 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 610000 | 8.777 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 284000 | 11.175 | | | |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/22/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MOS-18-092225 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039206.D | 1 | 09/26/25 12:43 | VV092625 |

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039206.D
Acq On : 26 Sep 2025 12:43
Operator : SY/MD
Sample : Q3195-01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MOS-18-092225

Quant Time: Sep 27 02:54:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

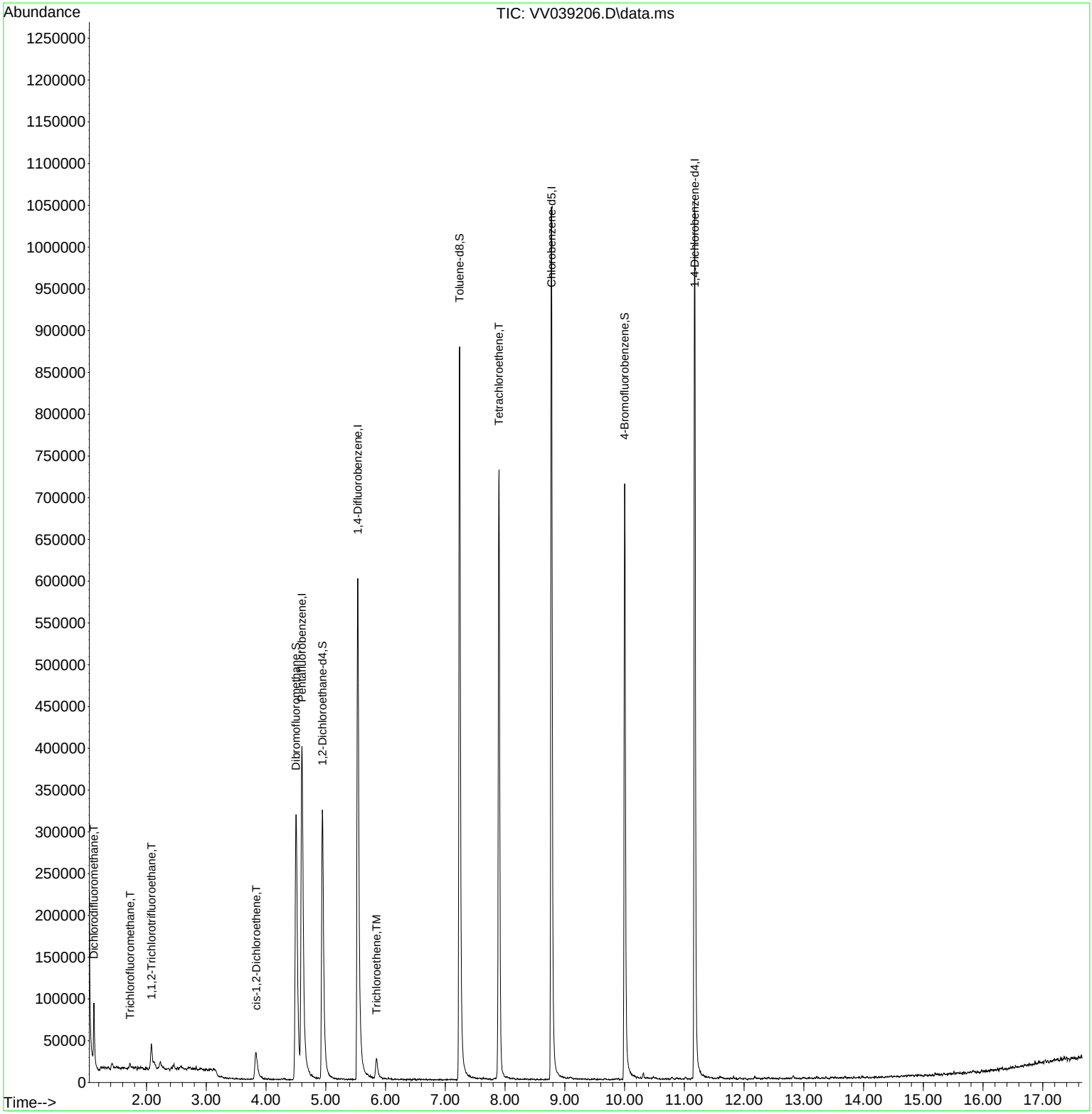
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.600 | 168 | 335184 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.535 | 114 | 584917 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.777 | 117 | 609610 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.175 | 152 | 284053 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.944 | 65 | 289205 | 59.616 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 119.240%# | | | |
| 35) Dibromofluoromethane | 4.503 | 113 | 273170 | 58.093 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 116.180% | | | |
| 50) Toluene-d8 | 7.240 | 98 | 651040 | 47.141 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 94.280% | | | |
| 62) 4-Bromofluorobenzene | 10.002 | 95 | 249742 | 43.927 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 87.860% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.121 | 85 | 51494 | 9.705 | ug/l | 99 |
| 7) Trichlorofluoromethane | 1.725 | 101 | 4326 | 0.490 | ug/l # | 71 |
| 9) 1,1,2-Trichlorotrifluo... | 2.082 | 101 | 12904 | 2.456 | ug/l | 92 |
| 27) cis-1,2-Dichloroethene | 3.838 | 96 | 16894 | 2.847 | ug/l | 90 |
| 44) Trichloroethene | 5.851 | 130 | 11568 | 2.165 | ug/l | 80 |
| 64) Tetrachloroethene | 7.899 | 164 | 166907 | 32.688 | ug/l | 99 |

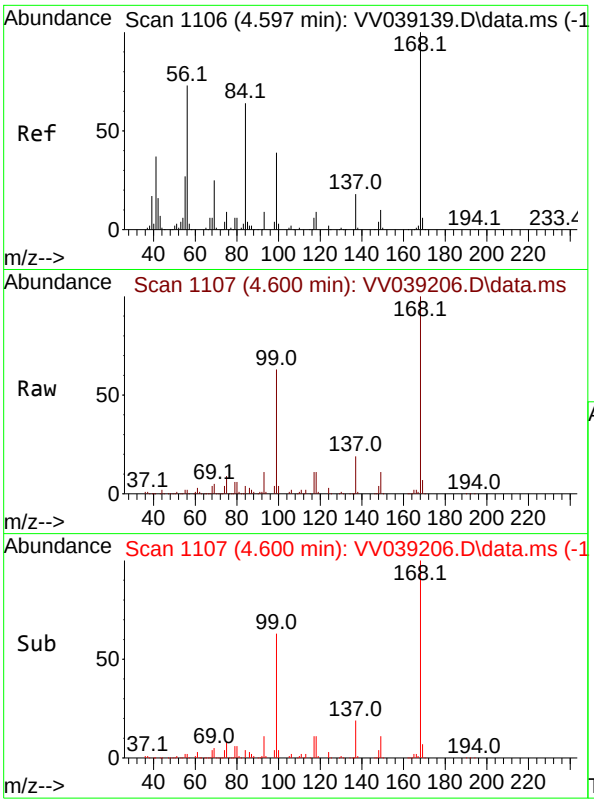
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039206.D
Acq On : 26 Sep 2025 12:43
Operator : SY/MD
Sample : Q3195-01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MOS-18-092225

Quant Time: Sep 27 02:54:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



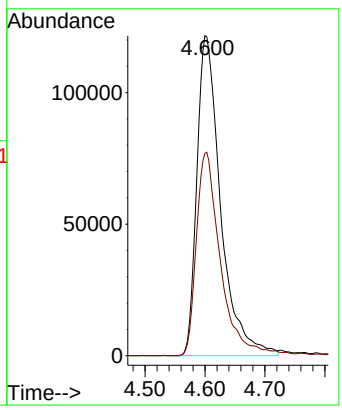


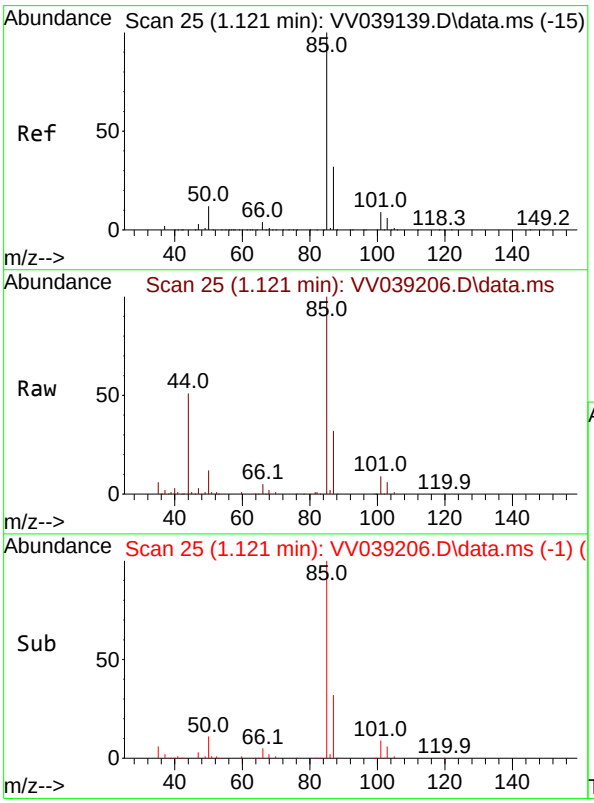

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039206.D
Acq: 26 Sep 2025 12:43

**Instrument :**
MSVOA_V
**ClientSampleId :**
MOS-18-092225

Tgt Ion:168 Resp: 335184

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 63.2 | 49.6 | 74.4 |

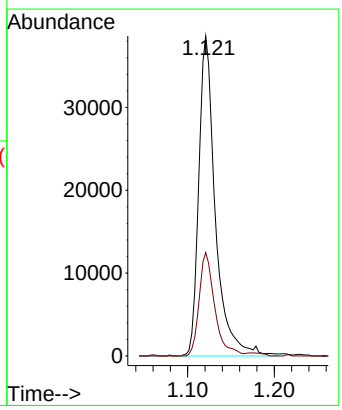


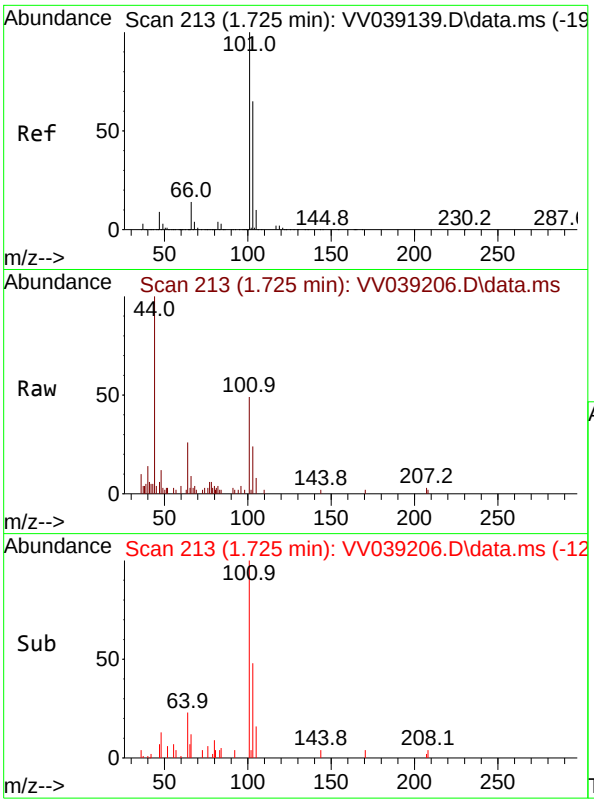




#2
Dichlorodifluoromethane
Concen: 9.705 ug/l
RT: 1.121 min Scan# 25
Delta R.T. 0.000 min
Lab File: VV039206.D
Acq: 26 Sep 2025 12:43

Tgt Ion: 85 Resp: 51494

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.3 | 16.0 | 47.9 |



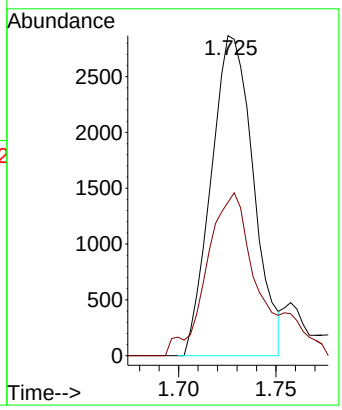


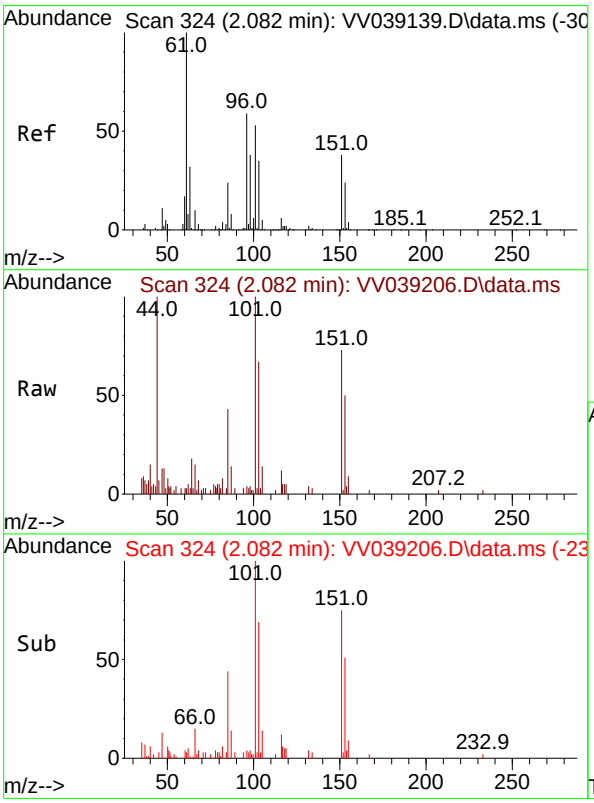

#7
Trichlorofluoromethane
Concen: 0.490 ug/l
RT: 1.725 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV039206.D
Acq: 26 Sep 2025 12:43

**Instrument :**
MSVOA_V
**ClientSampleId :**
MOS-18-092225

Tgt Ion:101 Resp: 4326

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 42.1 | 52.0 | 78.0# |

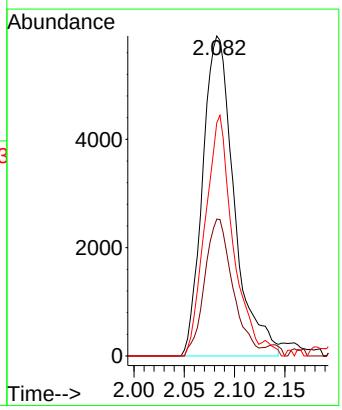


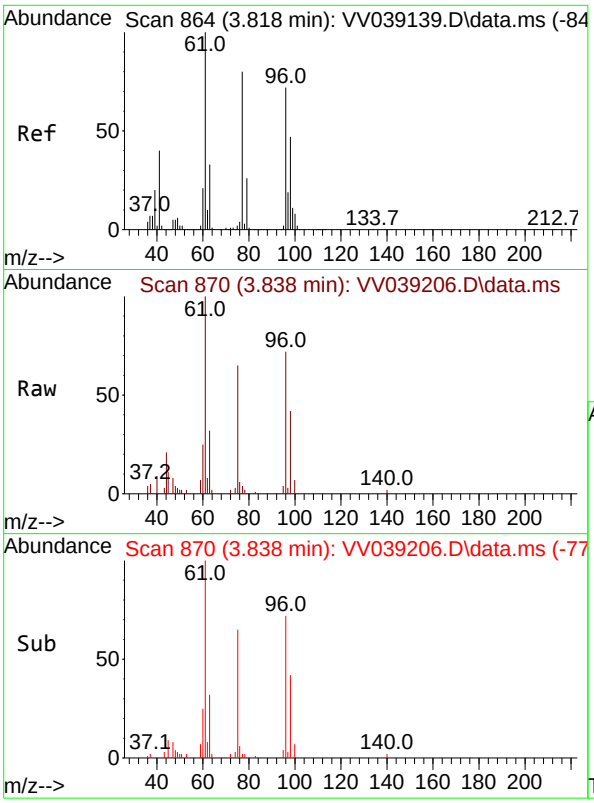




#9
1,1,2-Trichlorotrifluoroethane
Concen: 2.456 ug/l
RT: 2.082 min Scan# 324
Delta R.T. 0.000 min
Lab File: VV039206.D
Acq: 26 Sep 2025 12:43

Tgt Ion:101 Resp: 12904

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 38.4 | 36.2 | 54.2 |
| 151 | 65.7 | 56.3 | 84.5 |



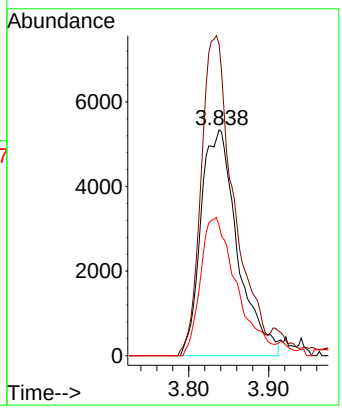


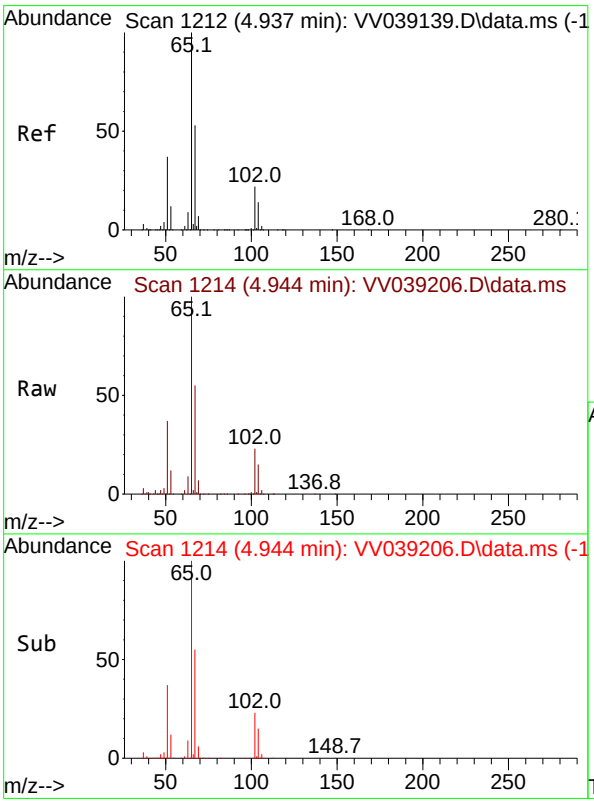

#27
cis-1,2-Dichloroethene
Concen: 2.847 ug/l
RT: 3.838 min Scan# 8
Delta R.T. 0.019 min
Lab File: VV039206.D
Acq: 26 Sep 2025 12:43

**Instrument :**
MSVOA_V
**ClientSampleId :**
MOS-18-092225

Tgt Ion: 96 Resp: 16894

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 127.1 | 0.0 | 286.4 |
| 98 | 60.9 | 0.0 | 126.6 |

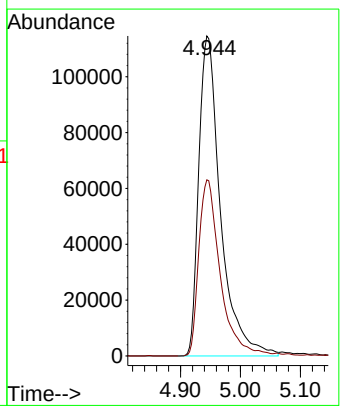


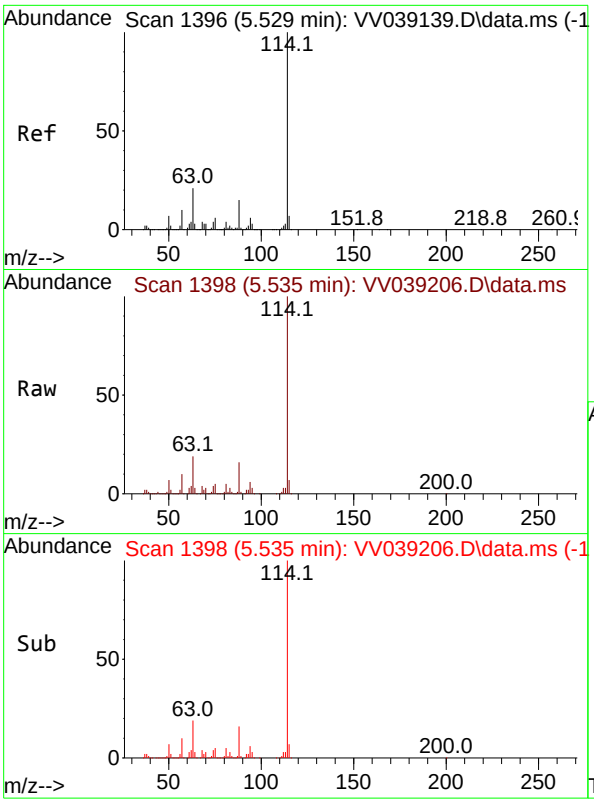




#33
1,2-Dichloroethane-d4
Concen: 59.616 ug/l
RT: 4.944 min Scan# 1214
Delta R.T. 0.007 min
Lab File: VV039206.D
Acq: 26 Sep 2025 12:43

Tgt Ion: 65 Resp: 289205

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 54.3 | 0.0 | 107.0 |



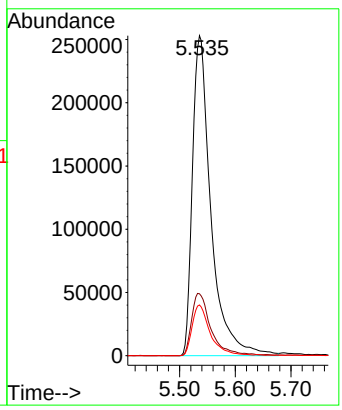


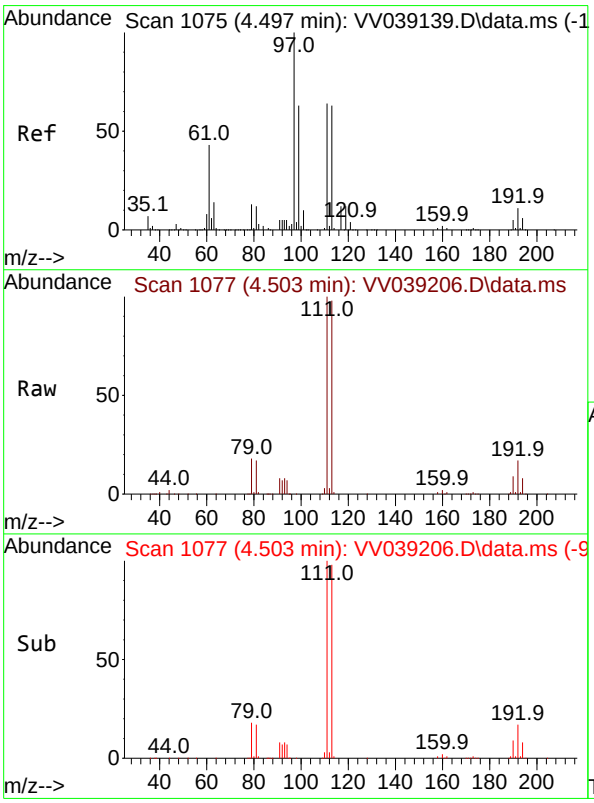

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039206.D
Acq: 26 Sep 2025 12:43

**Instrument :**
MSVOA_V
**ClientSampleId :**
MOS-18-092225

Tgt Ion:114 Resp: 584917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.4 | 0.0 | 42.6 |
| 88 | 15.8 | 0.0 | 30.8 |

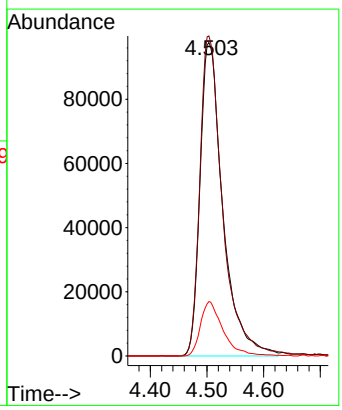


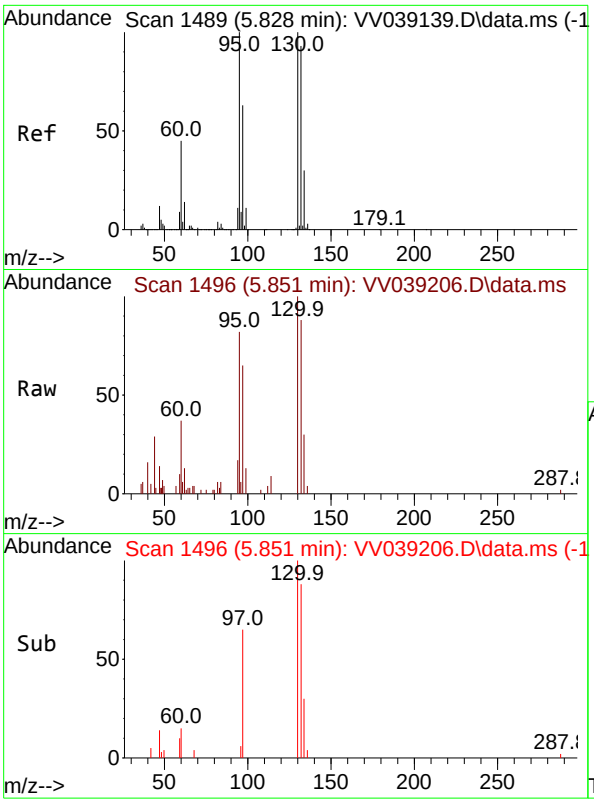




#35
Dibromofluoromethane
Concen: 58.093 ug/l
RT: 4.503 min Scan# 1077
Delta R.T. 0.007 min
Lab File: VV039206.D
Acq: 26 Sep 2025 12:43

Tgt Ion:113 Resp: 273170

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.7 | 82.4 | 123.6 |
| 192 | 17.1 | 13.8 | 20.8 |



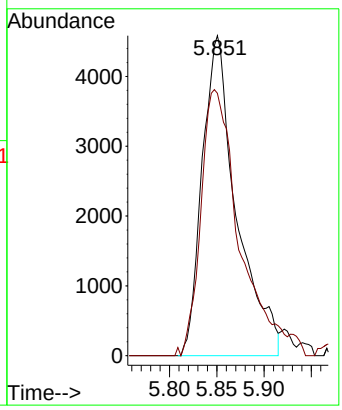


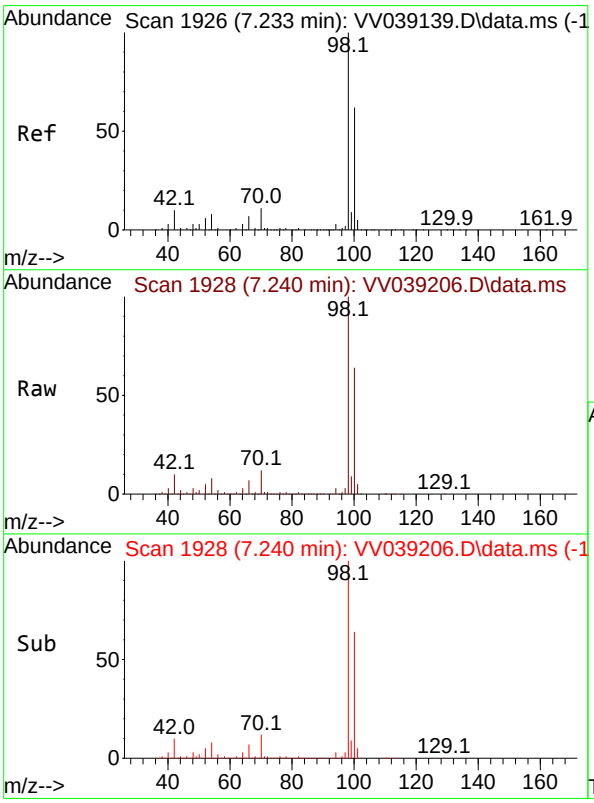

#44
Trichloroethene
Concen: 2.165 ug/l
RT: 5.851 min Scan# 14
Delta R.T. 0.023 min
Lab File: VV039206.D
Acq: 26 Sep 2025 12:43

**Instrument :**
MSVOA_V
**ClientSampleId :**
MOS-18-092225

Tgt Ion:130 Resp: 11568

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 79.5 | 0.0 | 199.2 |

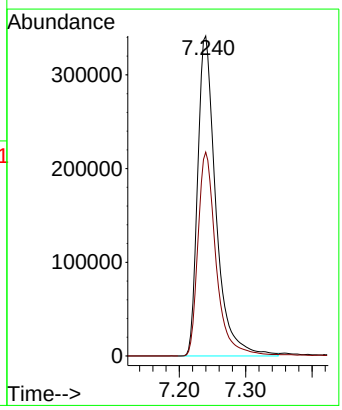


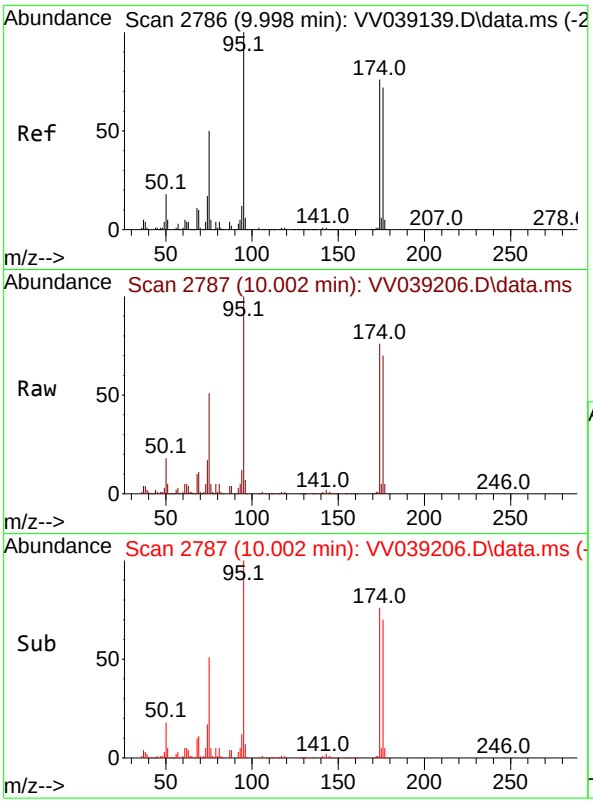




#50
Toluene-d8
Concen: 47.141 ug/l
RT: 7.240 min Scan# 1928
Delta R.T. 0.007 min
Lab File: VV039206.D
Acq: 26 Sep 2025 12:43

Tgt Ion: 98 Resp: 651040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.5 | 52.2 | 78.2 |



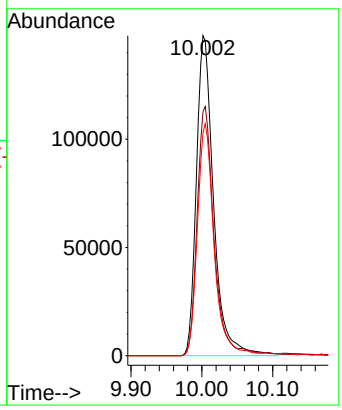


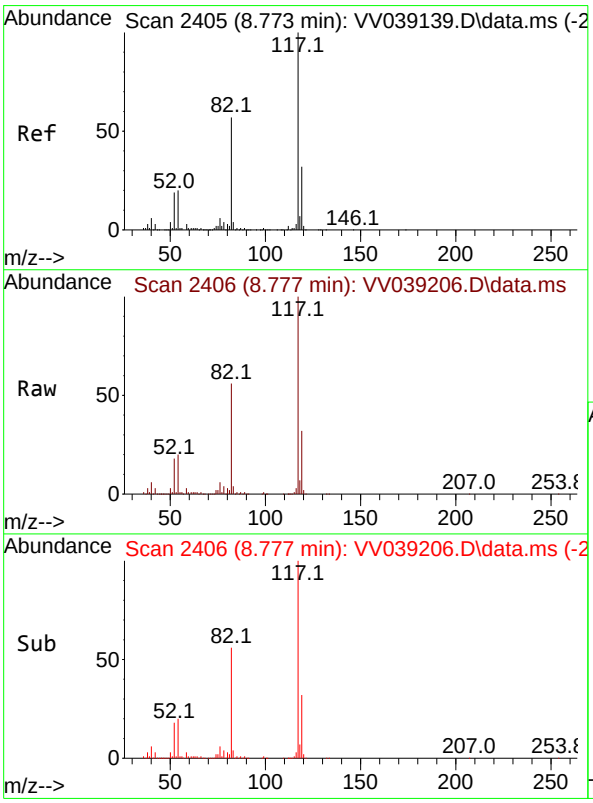

#62
4-Bromofluorobenzene
Concen: 43.927 ug/l
RT: 10.002 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039206.D
Acq: 26 Sep 2025 12:43

**Instrument :**
MSVOA_V
**ClientSampleId :**
MOS-18-092225

Tgt Ion: 95 Resp: 249742

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 77.2 | 0.0 | 150.4 |
| 176 | 70.3 | 0.0 | 144.2 |

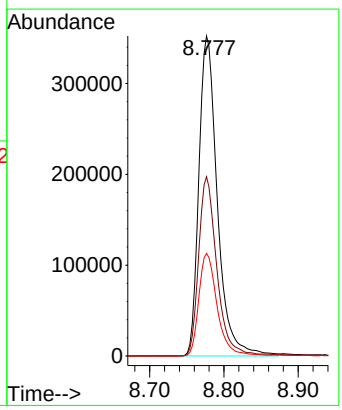


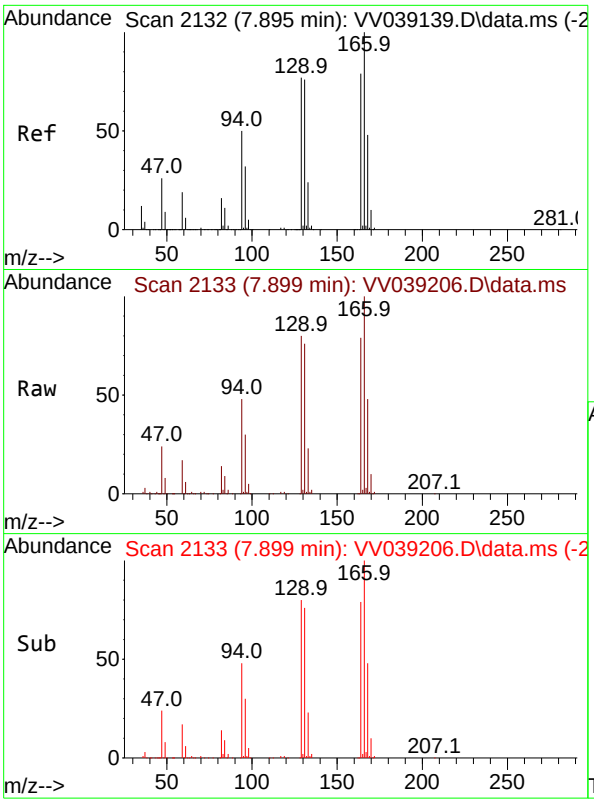




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.777 min Scan# 2406
Delta R.T. 0.004 min
Lab File: VV039206.D
Acq: 26 Sep 2025 12:43

Tgt Ion:117 Resp: 609610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 56.0 | 45.4 | 68.2 |
| 119 | 32.1 | 25.6 | 38.4 |



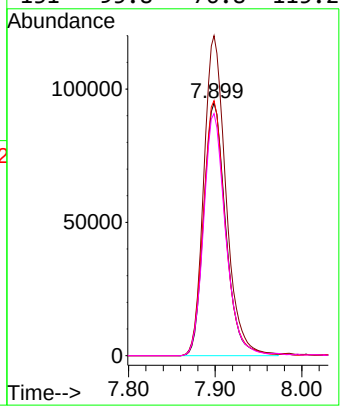


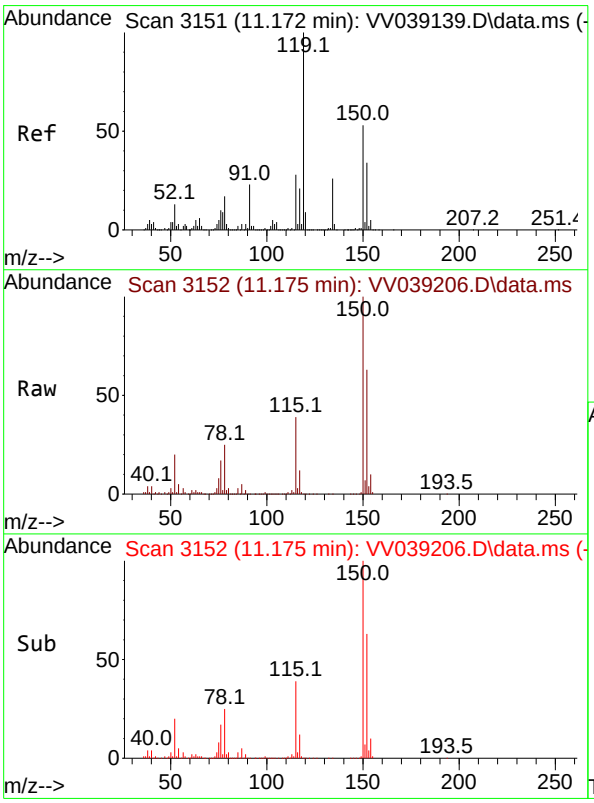

#64
Tetrachloroethene
Concen: 32.688 ug/l
RT: 7.899 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039206.D
Acq: 26 Sep 2025 12:43

**Instrument :**
MSVOA_V
**ClientSampleId :**
MOS-18-092225

Tgt Ion:164 Resp: 166907

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 126.6 | 101.6 | 152.4 |
| 129 | 100.9 | 78.5 | 117.7 |
| 131 | 95.8 | 76.8 | 115.2 |

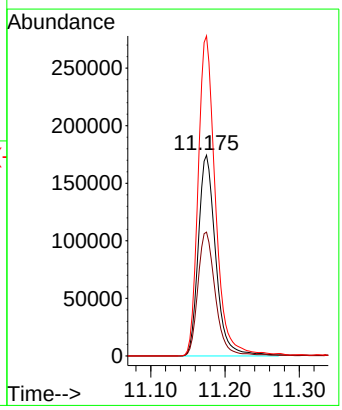



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039206.D
Acq: 26 Sep 2025 12:43

Tgt Ion:152 Resp: 284053

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 61.8 | 44.8 | 134.4 |
| 150 | 158.2 | 0.0 | 353.8 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039206.D
Acq On : 26 Sep 2025 12:43
Operator : SY/MD
Sample : Q3195-01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MOS-18-092225

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039206.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.121 | 19 | 25 | 49 | rVB | 80911 | 121667 | 6.59% | 0.986% |
| 2 | 2.082 | 314 | 324 | 332 | rBV3 | 29053 | 53693 | 2.91% | 0.435% |
| 3 | 3.831 | 855 | 868 | 889 | rBV3 | 31358 | 96917 | 5.25% | 0.785% |
| 4 | 4.503 | 1059 | 1077 | 1096 | rBV | 317838 | 847996 | 45.91% | 6.871% |
| 5 | 4.600 | 1096 | 1107 | 1147 | rVB | 392513 | 1084497 | 58.72% | 8.788% |
| 6 | 4.944 | 1199 | 1214 | 1246 | rBV | 322030 | 816841 | 44.22% | 6.619% |
| 7 | 5.535 | 1387 | 1398 | 1444 | rBV | 599915 | 1428164 | 77.32% | 11.572% |
| 8 | 5.851 | 1483 | 1496 | 1517 | rBV6 | 23792 | 62674 | 3.39% | 0.508% |
| 9 | 7.240 | 1913 | 1928 | 1962 | rBV | 878473 | 1710697 | 92.62% | 13.862% |
| 10 | 7.899 | 2117 | 2133 | 2162 | rBV | 729232 | 1310094 | 70.93% | 10.616% |
| 11 | 8.777 | 2395 | 2406 | 2451 | rBV | 1044591 | 1847018 | 100.00% | 14.966% |
| 12 | 10.005 | 2777 | 2788 | 2817 | rBV2 | 713170 | 1222723 | 66.20% | 9.908% |
| 13 | 11.175 | 3141 | 3152 | 3180 | rBV | 1053232 | 1738350 | 94.12% | 14.086% |

Sum of corrected areas: 12341331

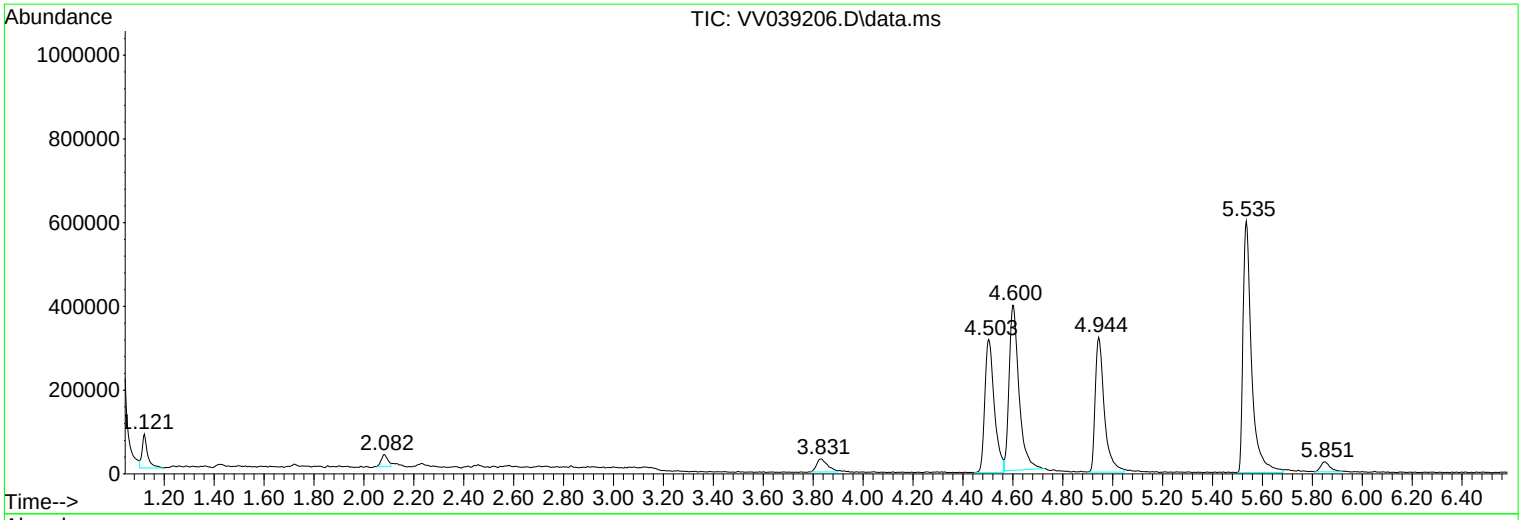
Sample Results: **VV039206.D**

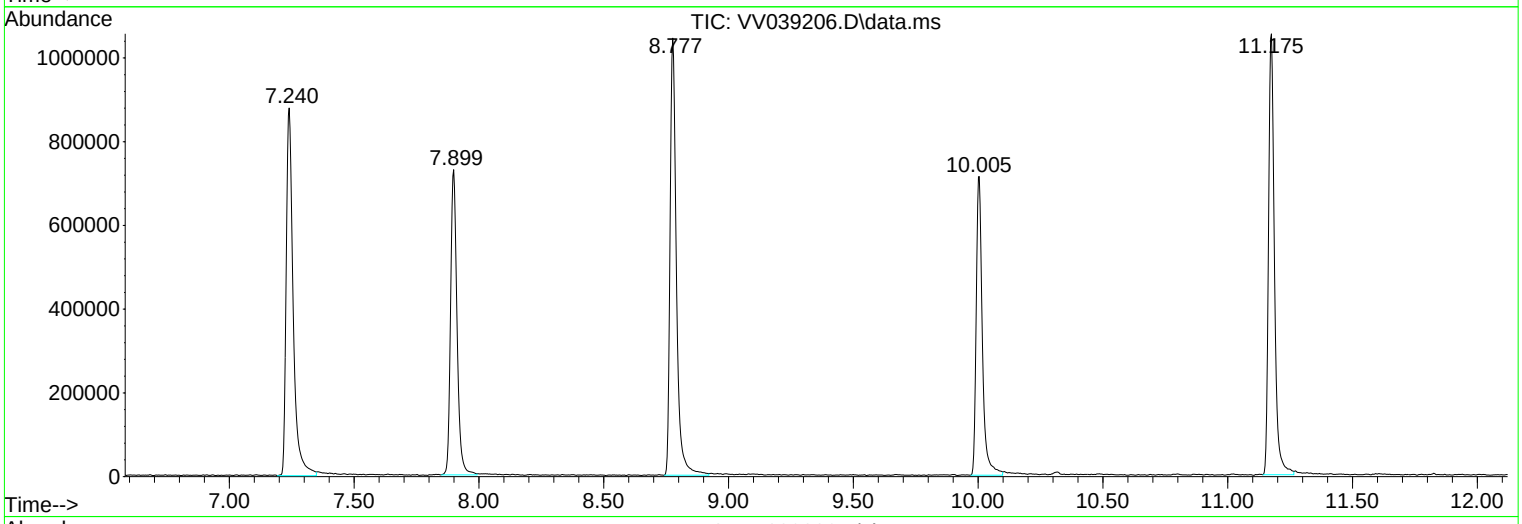
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039206.D
Acq On : 26 Sep 2025 12:43
Operator : SY/MD
Sample : Q3195-01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 10 Sample Multiplier: 1

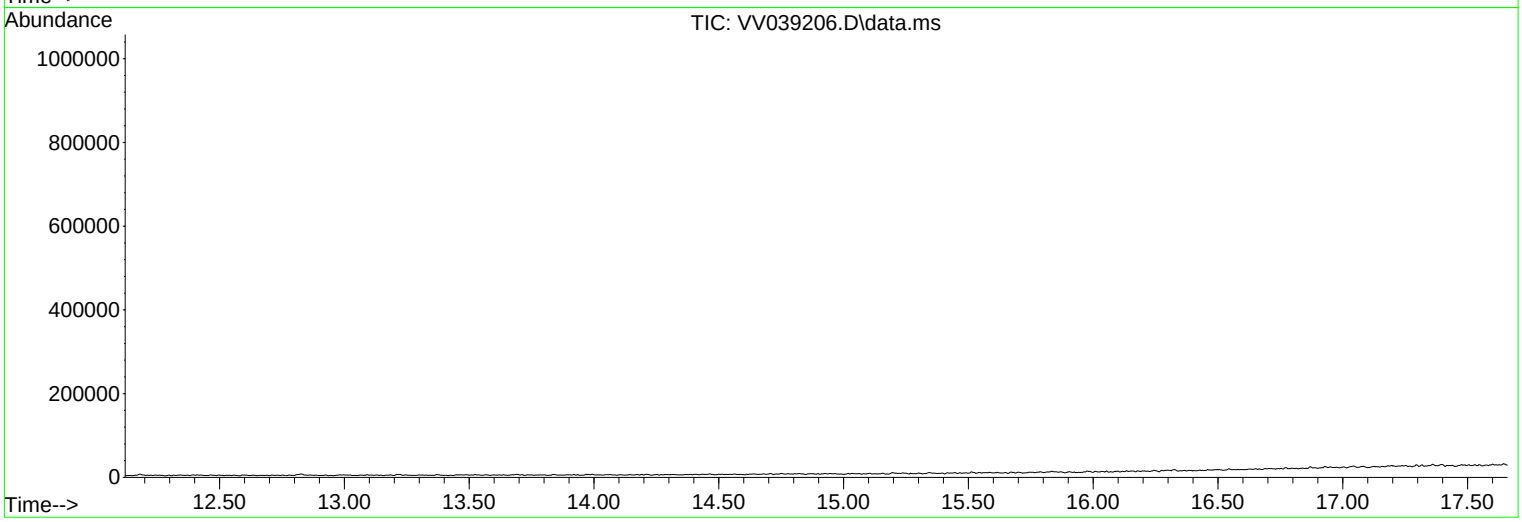
**Instrument :**
MSVOA_V
**ClientSampleId :**
MOS-18-092225

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039206.D
Acq On : 26 Sep 2025 12:43
Operator : SY/MD
Sample : Q3195-01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MOS-18-092225

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039206.D
Acq On : 26 Sep 2025 12:43
Operator : SY/MD
Sample : Q3195-01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MOS-18-092225

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/17/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-1-091725 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-02 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039192.D | 1 | 09/25/25 19:17 | VV092525 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.26 | J | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.33 | U | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.76 | J | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 5.50 | | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 1.50 | U | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 0.27 | U | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.40 | J | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 1.50 | U | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 16.2 | | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.25 | U | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 2.10 | | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.16 | U | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 41.4 | | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | U | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.14 | U | 0.14 | 1.00 | ug/L |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/17/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-1-091725 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-02 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039192.D | 1 | 09/25/25 19:17 | VV092525 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.15 | U | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | U | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | U | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.53 | U | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 55.2 | | 74 - 125 | 110% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 51.0 | | 75 - 124 | 102% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 46.4 | | 86 - 113 | 93% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 44.1 | | 77 - 121 | 88% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 536000 | 4.6 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 971000 | 5.532 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 956000 | 8.776 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 458000 | 11.172 | | | |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/17/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-1-091725 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-02 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039192.D | 1 | 09/25/25 19:17 | VV092525 |

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039192.D
Acq On : 25 Sep 2025 19:17
Operator : SY/MD
Sample : Q3195-02
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-1-091725

Quant Time: Sep 26 01:37:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

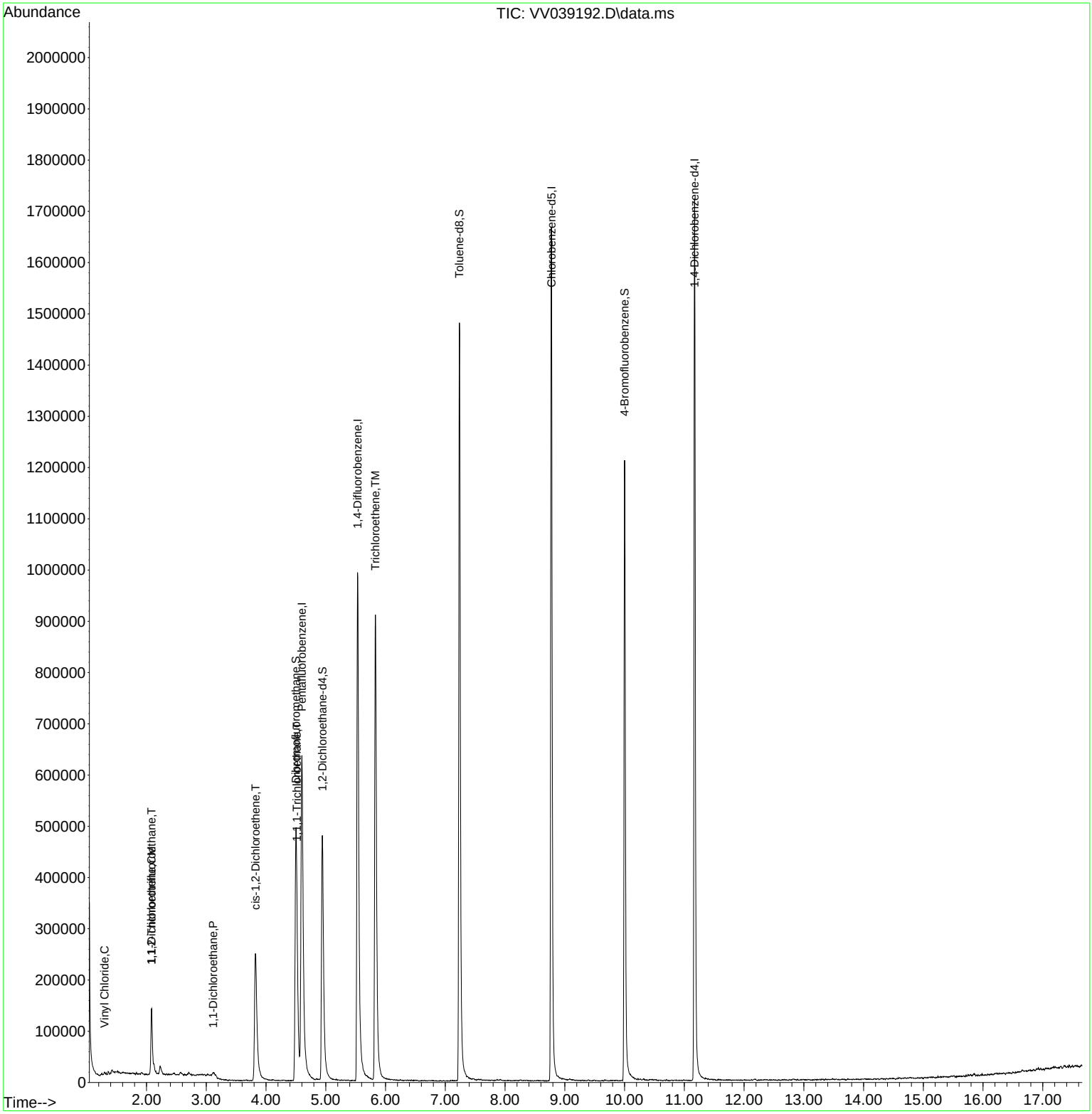
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.600 | 168 | 535790 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.532 | 114 | 971101 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.776 | 117 | 956100 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.172 | 152 | 458217 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.944 | 65 | 427676 | 55.152 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 110.300% | | | |
| 35) Dibromofluoromethane | 4.503 | 113 | 398238 | 51.011 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 102.020% | | | |
| 50) Toluene-d8 | 7.236 | 98 | 1062986 | 46.360 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 92.720% | | | |
| 62) 4-Bromofluorobenzene | 10.001 | 95 | 416581 | 44.133 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 88.260% | | | |
| Target Compounds | | | | | | Qvalue |
| 4) Vinyl Chloride | 1.298 | 62 | 2528 | 0.259 | ug/l # | 84 |
| 9) 1,1,2-Trichlorotrifluo... | 2.082 | 101 | 6382 | 0.760 | ug/l | 97 |
| 12) 1,1-Dichloroethene | 2.085 | 96 | 44339 | 5.489 | ug/l | 95 |
| 24) 1,1-Dichloroethane | 3.117 | 63 | 6814 | 0.404 | ug/l # | 92 |
| 27) cis-1,2-Dichloroethene | 3.825 | 96 | 154086 | 16.246 | ug/l | 88 |
| 32) 1,1,1-Trichloroethane | 4.516 | 97 | 32296 | 2.116 | ug/l | 97 |
| 44) Trichloroethene | 5.831 | 130 | 367152 | 41.396 | ug/l | 100 |

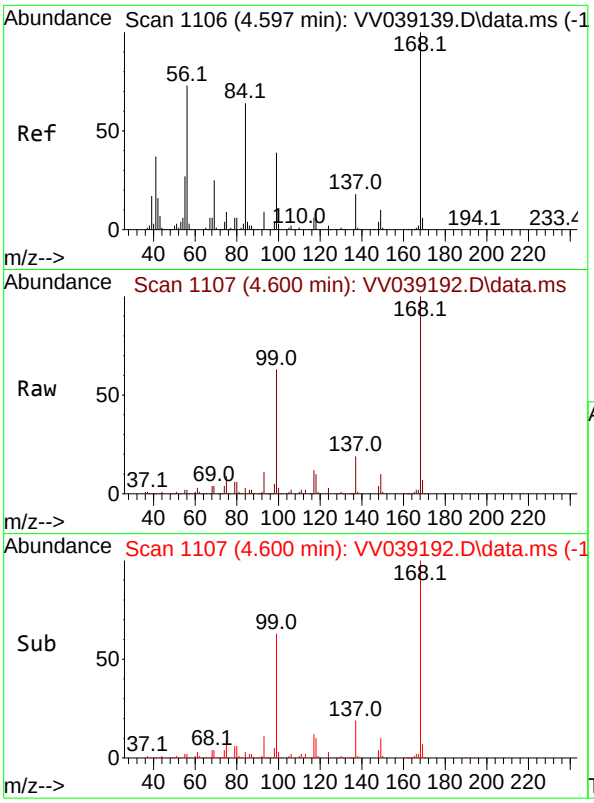
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039192.D
Acq On : 25 Sep 2025 19:17
Operator : SY/MD
Sample : Q3195-02
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-1-091725

Quant Time: Sep 26 01:37:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



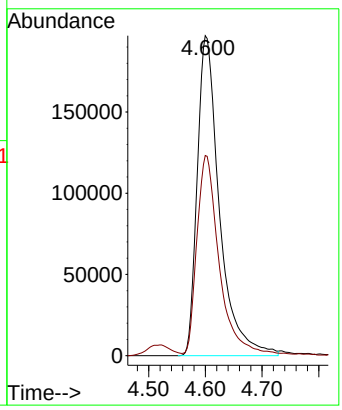


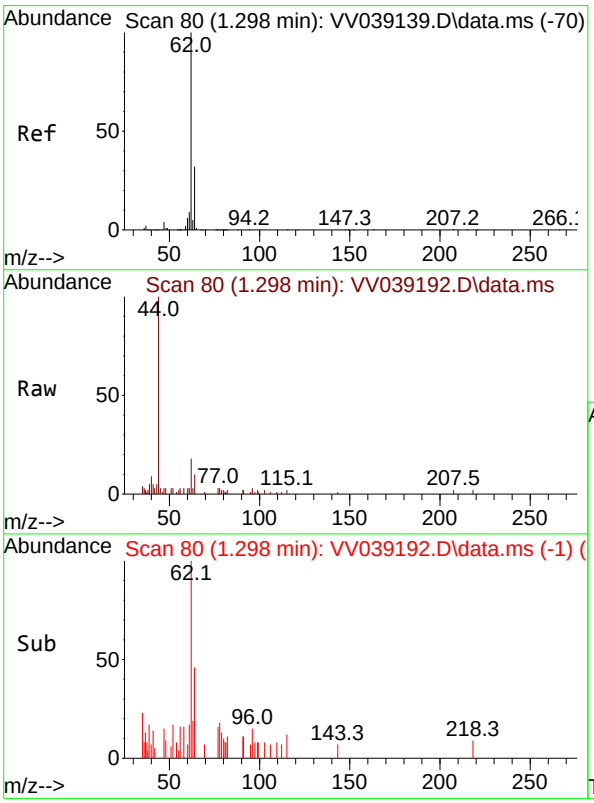

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-1-091725

Tgt Ion:168 Resp: 535790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 61.8 | 49.6 | 74.4 |

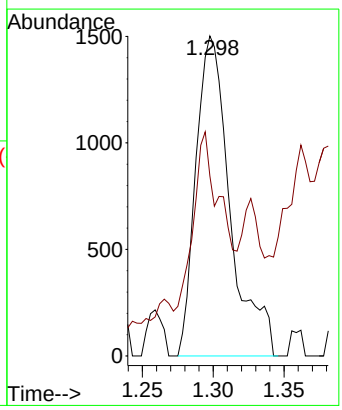


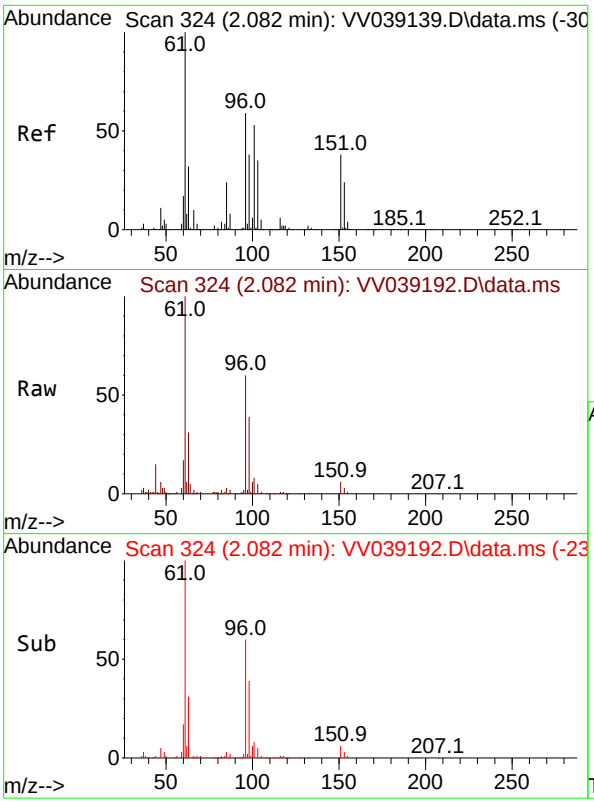




#4
Vinyl Chloride
Concen: 0.259 ug/l
RT: 1.298 min Scan# 80
Delta R.T. -0.000 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

Tgt Ion: 62 Resp: 2528

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 40.7 | 25.6 | 38.4# |



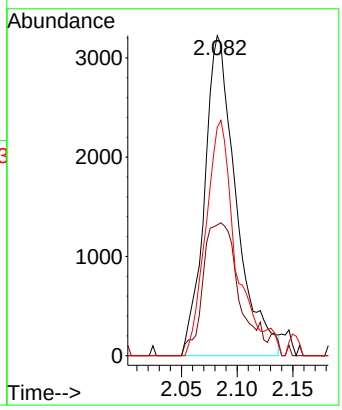


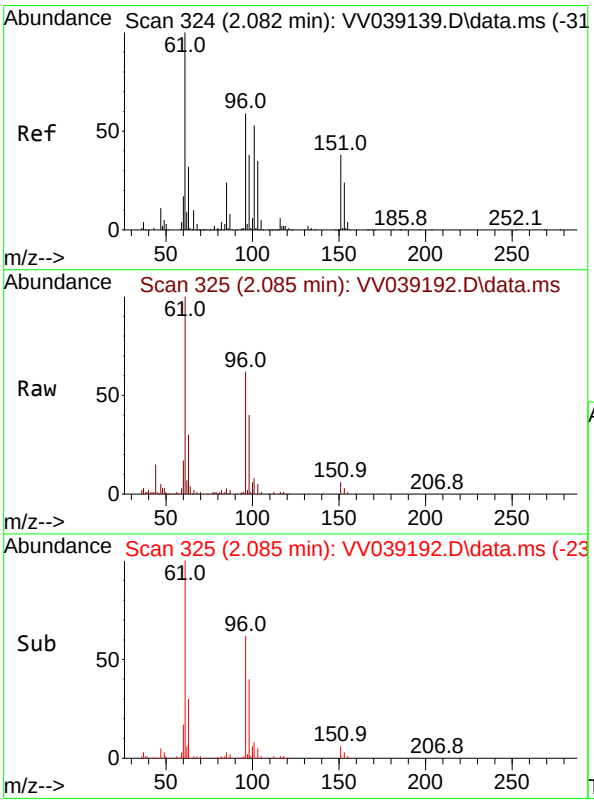

#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.760 ug/l
RT: 2.082 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-1-091725

Tgt Ion:101 Resp: 6382

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 47.1 | 36.2 | 54.2 |
| 151 | 67.7 | 56.3 | 84.5 |

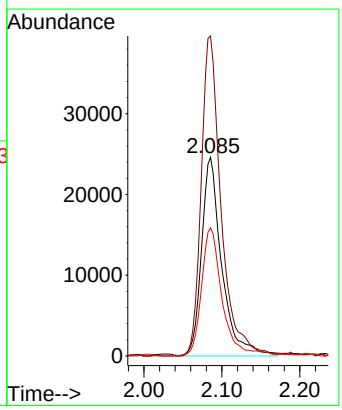


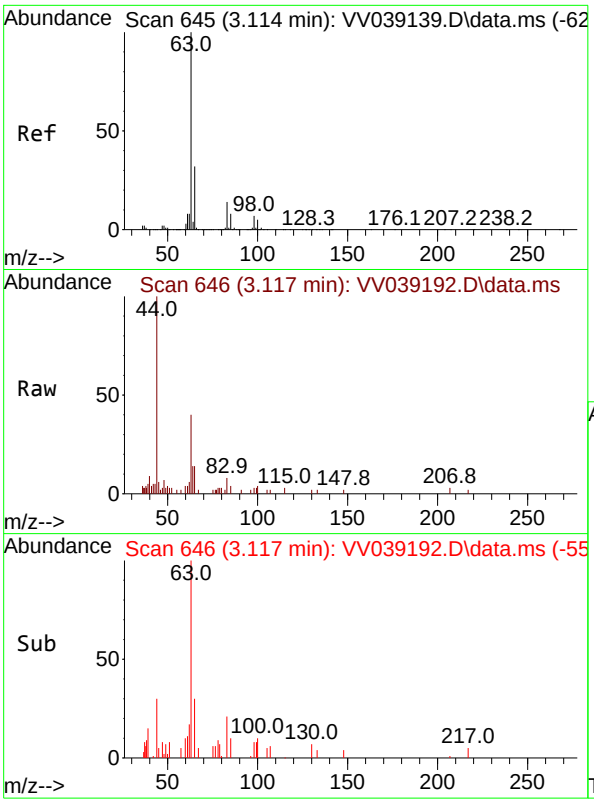




#12
1,1-Dichloroethene
Concen: 5.489 ug/l
RT: 2.085 min Scan# 325
Delta R.T. 0.003 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

Tgt Ion: 96 Resp: 44339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 161.2 | 136.0 | 204.0 |
| 98 | 64.6 | 51.0 | 76.6 |



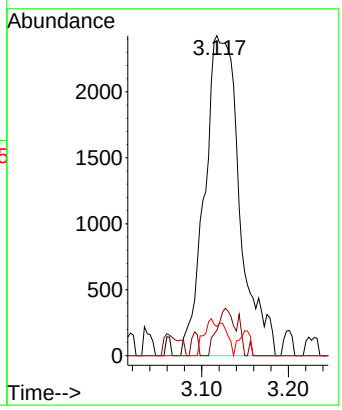


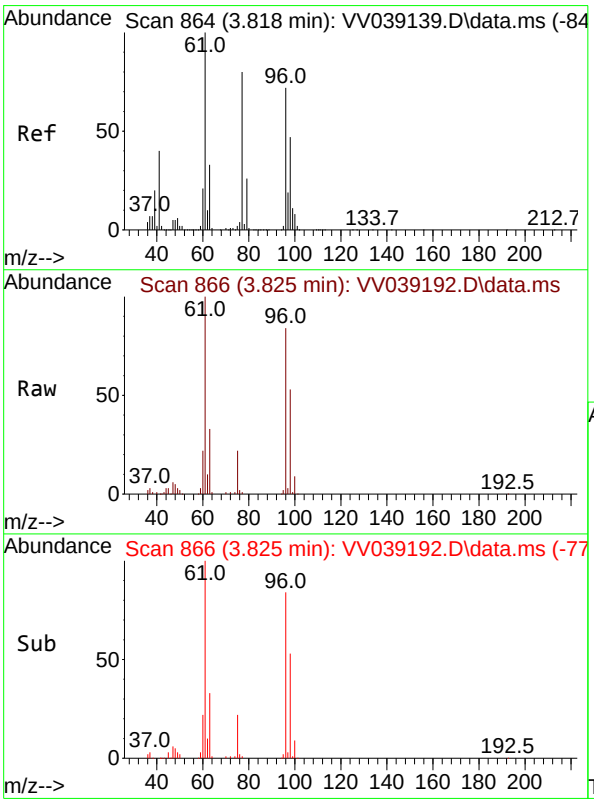

#24
1,1-Dichloroethane
Concen: 0.404 ug/l
RT: 3.117 min Scan# 64
Delta R.T. 0.003 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-1-091725

Tgt Ion: 63 Resp: 6814

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 8.0 | 3.4 | 10.2 |
| 100 | 9.1 | 2.2 | 6.6# |

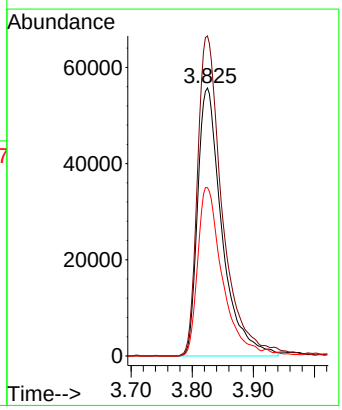


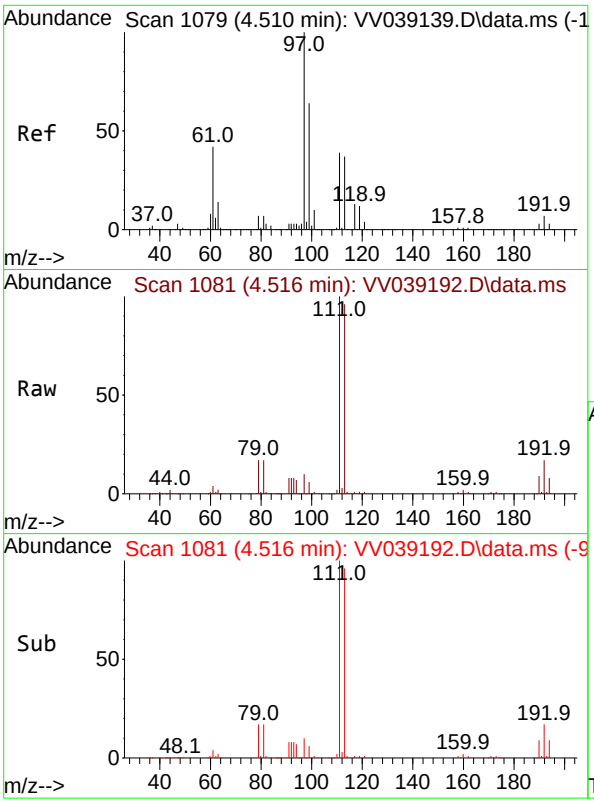




#27
cis-1,2-Dichloroethene
Concen: 16.246 ug/l
RT: 3.825 min Scan# 866
Delta R.T. 0.006 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

Tgt Ion: 96 Resp: 154086

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 122.8 | 0.0 | 286.4 |
| 98 | 62.9 | 0.0 | 126.6 |



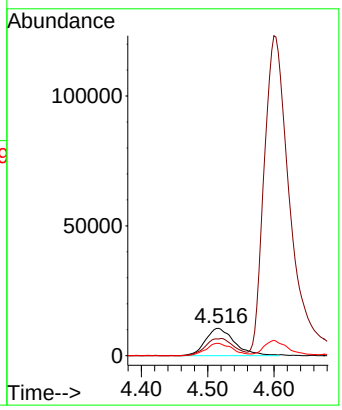


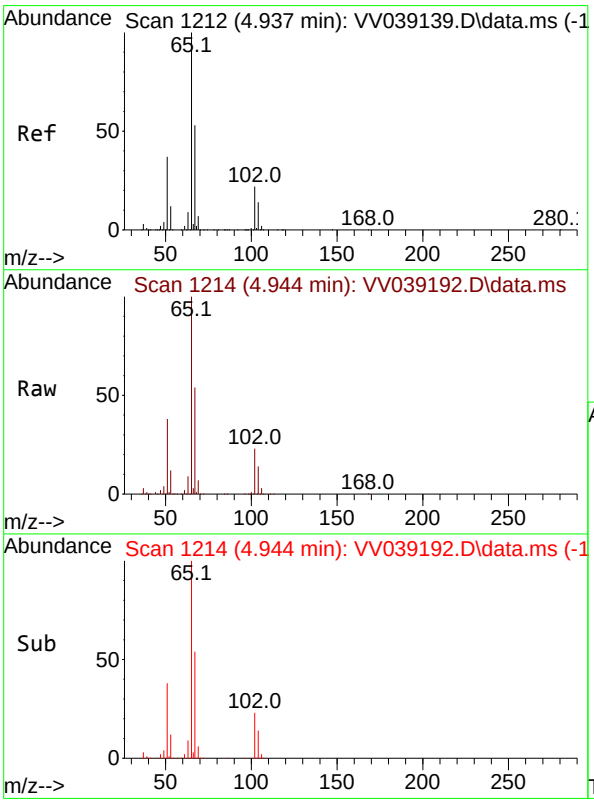

#32
1,1,1-Trichloroethane
Concen: 2.116 ug/l
RT: 4.516 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-1-091725

Tgt Ion: 97 Resp: 32296

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 60.3 | 49.6 | 74.4 |
| 61 | 40.8 | 34.5 | 51.7 |

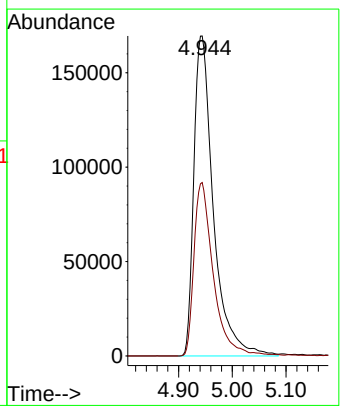


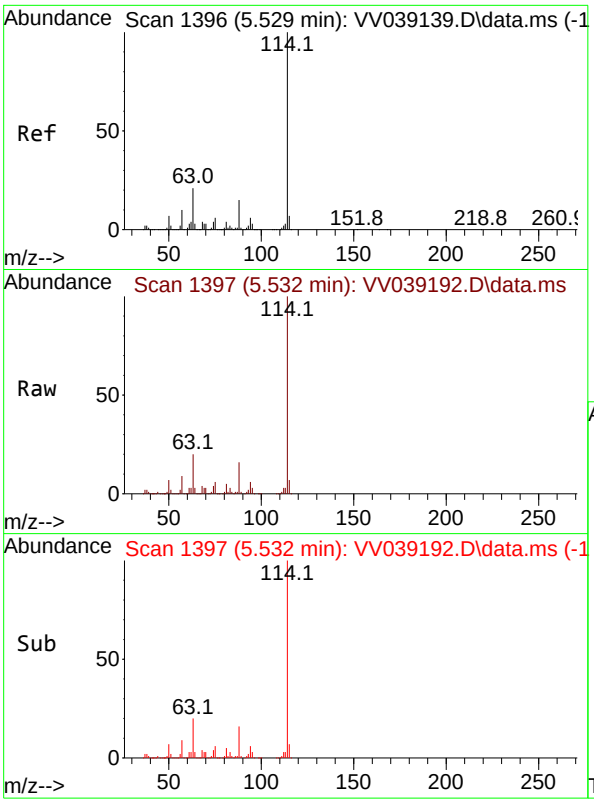




#33
1,2-Dichloroethane-d4
Concen: 55.152 ug/l
RT: 4.944 min Scan# 1214
Delta R.T. 0.006 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

Tgt Ion: 65 Resp: 427676

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.9 | 0.0 | 107.0 |



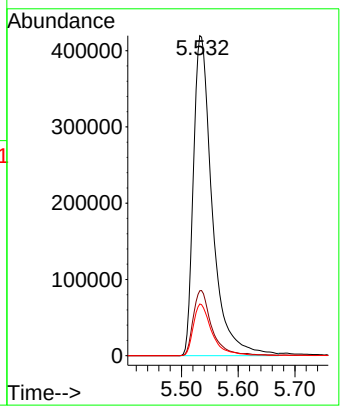


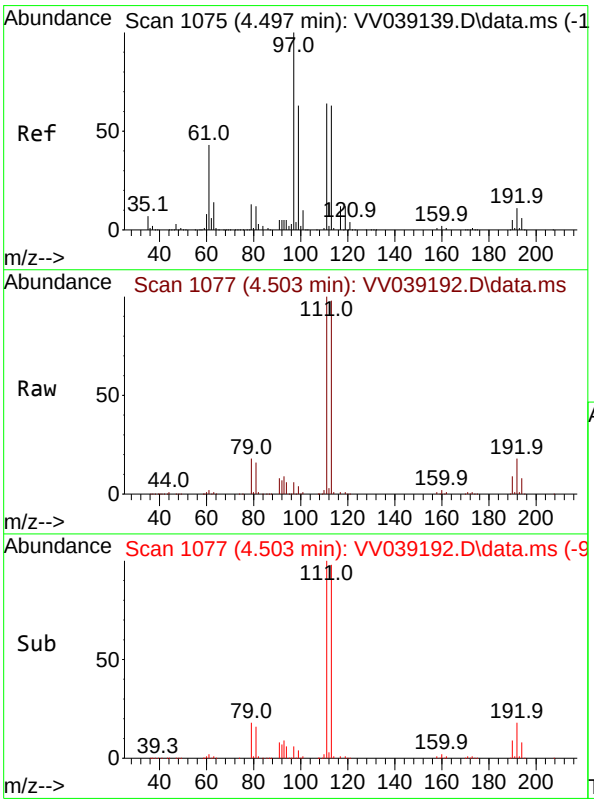

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-1-091725

Tgt Ion:114 Resp: 971101

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.3 | 0.0 | 42.6 |
| 88 | 16.1 | 0.0 | 30.8 |

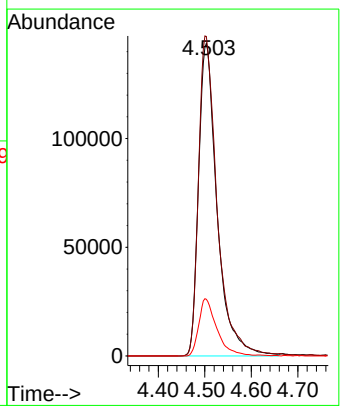


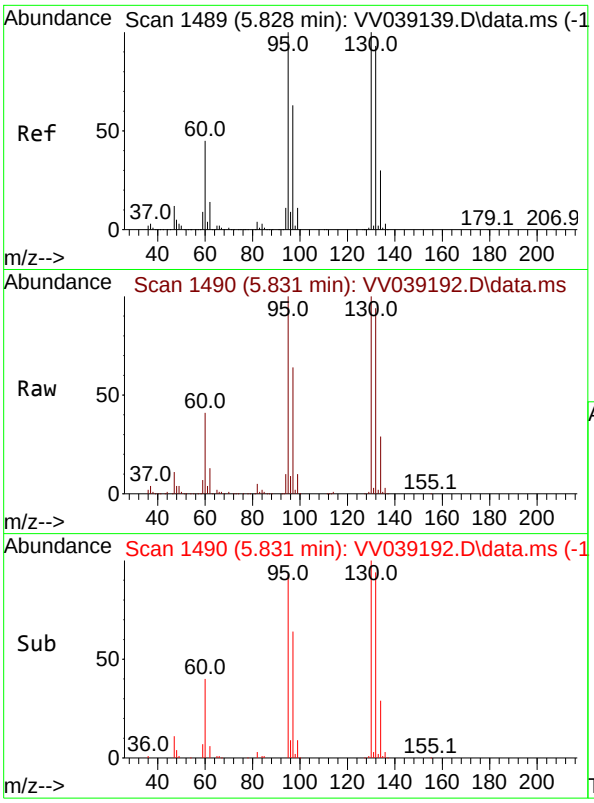




#35
Dibromofluoromethane
Concen: 51.011 ug/l
RT: 4.503 min Scan# 1077
Delta R.T. 0.006 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

Tgt Ion:113 Resp: 398238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.5 | 82.4 | 123.6 |
| 192 | 17.8 | 13.8 | 20.8 |



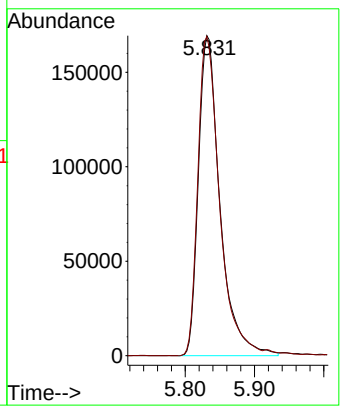


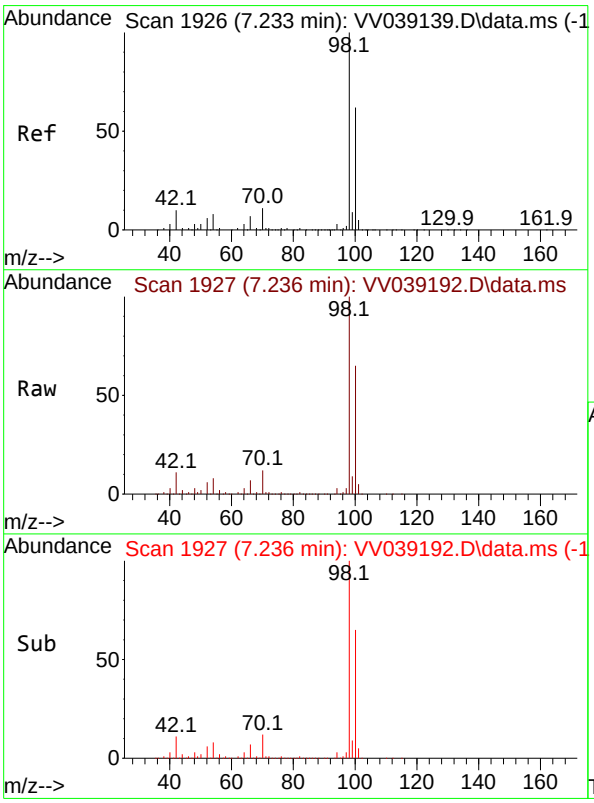

#44
Trichloroethene
Concen: 41.396 ug/l
RT: 5.831 min Scan# 14
Delta R.T. 0.003 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-1-091725

Tgt Ion:130 Resp: 367152

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 99.7 | 0.0 | 199.2 |

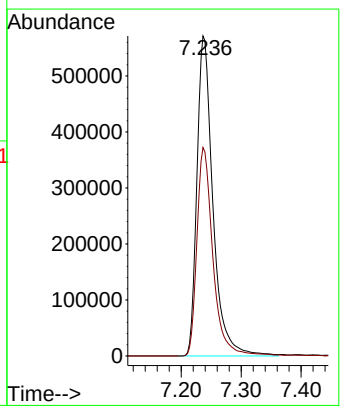


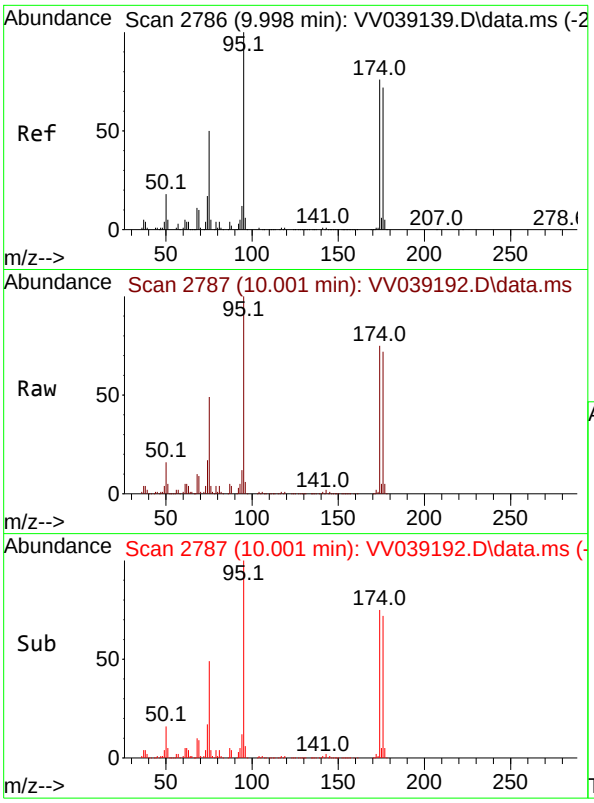




#50
Toluene-d8
Concen: 46.360 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.003 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

Tgt Ion: 98 Resp: 1062986

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.1 | 52.2 | 78.2 |



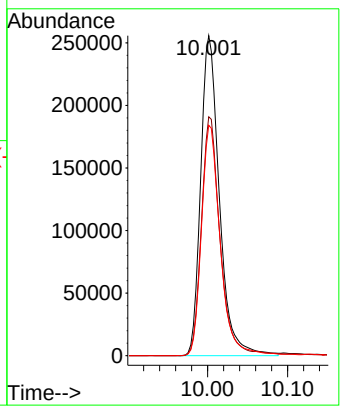


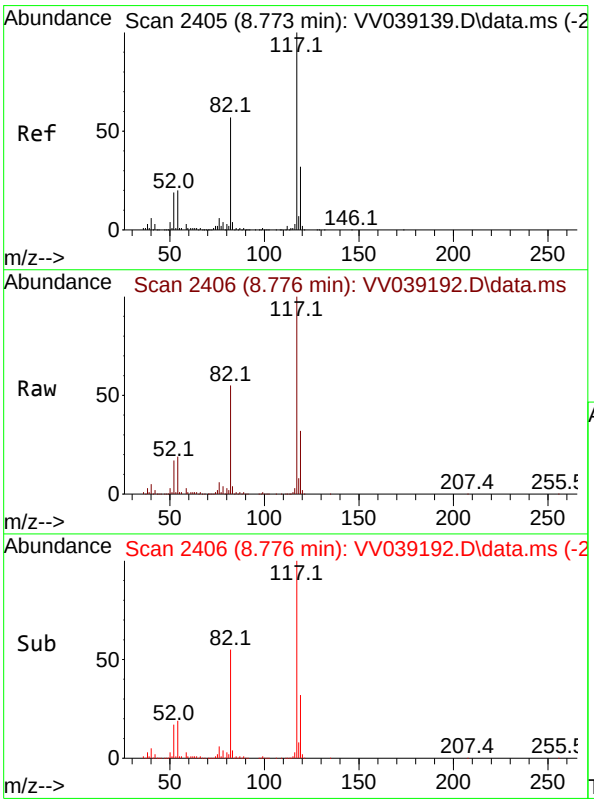

#62
4-Bromofluorobenzene
Concen: 44.133 ug/l
RT: 10.001 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-1-091725

Tgt Ion: 95 Resp: 416581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 74.8 | 0.0 | 150.4 |
| 176 | 72.5 | 0.0 | 144.2 |

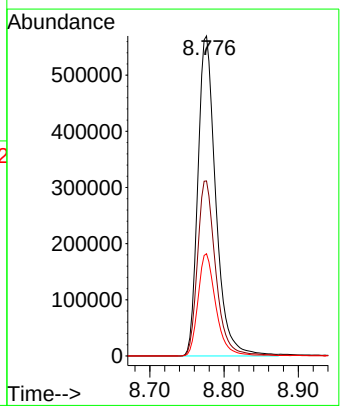


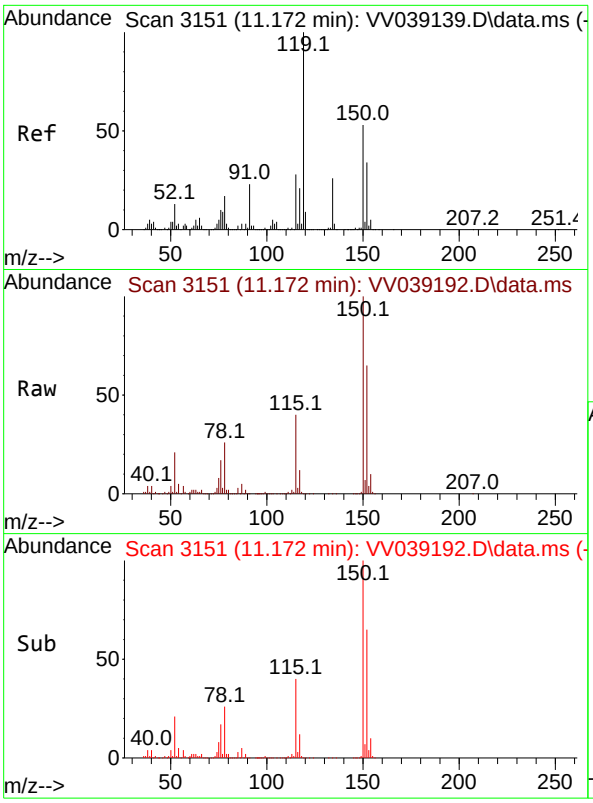




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

Tgt Ion:117 Resp: 956100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.7 | 45.4 | 68.2 |
| 119 | 31.9 | 25.6 | 38.4 |



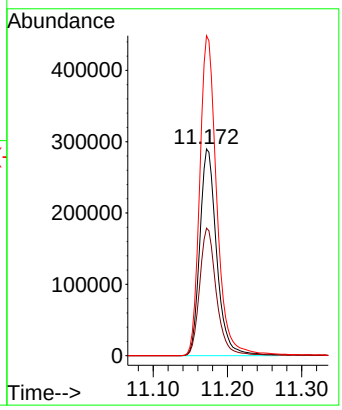



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039192.D
Acq: 25 Sep 2025 19:17

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-1-091725

Tgt Ion:152 Resp: 458217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 61.7 | 44.8 | 134.4 |
| 150 | 156.4 | 0.0 | 353.8 |



Sample Results: **VV039192.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039192.D
Acq On : 25 Sep 2025 19:17
Operator : SY/MD
Sample : Q3195-02
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-1-091725

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039192.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.085 | 314 | 325 | 335 | rBV | 128019 | 225524 | 7.91% | 1.133% |
| 2 | 2.227 | 363 | 369 | 384 | rVB3 | 16157 | 33672 | 1.18% | 0.169% |
| 3 | 3.822 | 849 | 865 | 899 | rBV | 247957 | 725433 | 25.44% | 3.644% |
| 4 | 4.503 | 1062 | 1077 | 1095 | rBV | 494015 | 1330653 | 46.66% | 6.684% |
| 5 | 4.600 | 1096 | 1107 | 1147 | rVB | 626950 | 1702119 | 59.69% | 8.550% |
| 6 | 4.944 | 1200 | 1214 | 1257 | rBV | 476575 | 1199116 | 42.05% | 6.023% |
| 7 | 5.532 | 1386 | 1397 | 1439 | rBV | 991999 | 2302347 | 80.74% | 11.565% |
| 8 | 5.831 | 1477 | 1490 | 1520 | rBV2 | 906370 | 1985486 | 69.63% | 9.973% |
| 9 | 7.236 | 1915 | 1927 | 1964 | rBV | 1479566 | 2788348 | 97.78% | 14.006% |
| 10 | 8.776 | 2394 | 2406 | 2435 | rBV | 1665656 | 2851540 | 100.00% | 14.324% |
| 11 | 10.001 | 2777 | 2787 | 2815 | rBV | 1210554 | 1994389 | 69.94% | 10.018% |
| 12 | 11.172 | 3137 | 3151 | 3188 | rBV | 1720463 | 2769495 | 97.12% | 13.911% |

Sum of corrected areas: 19908122

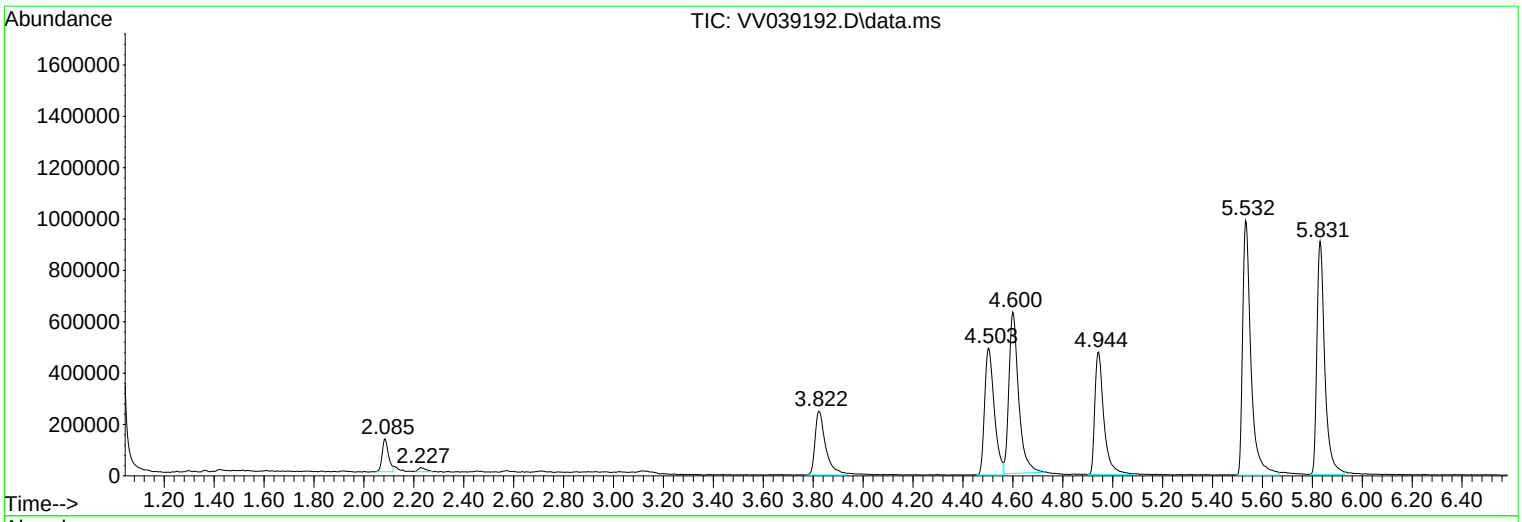
Sample Results: **VV039192.D**

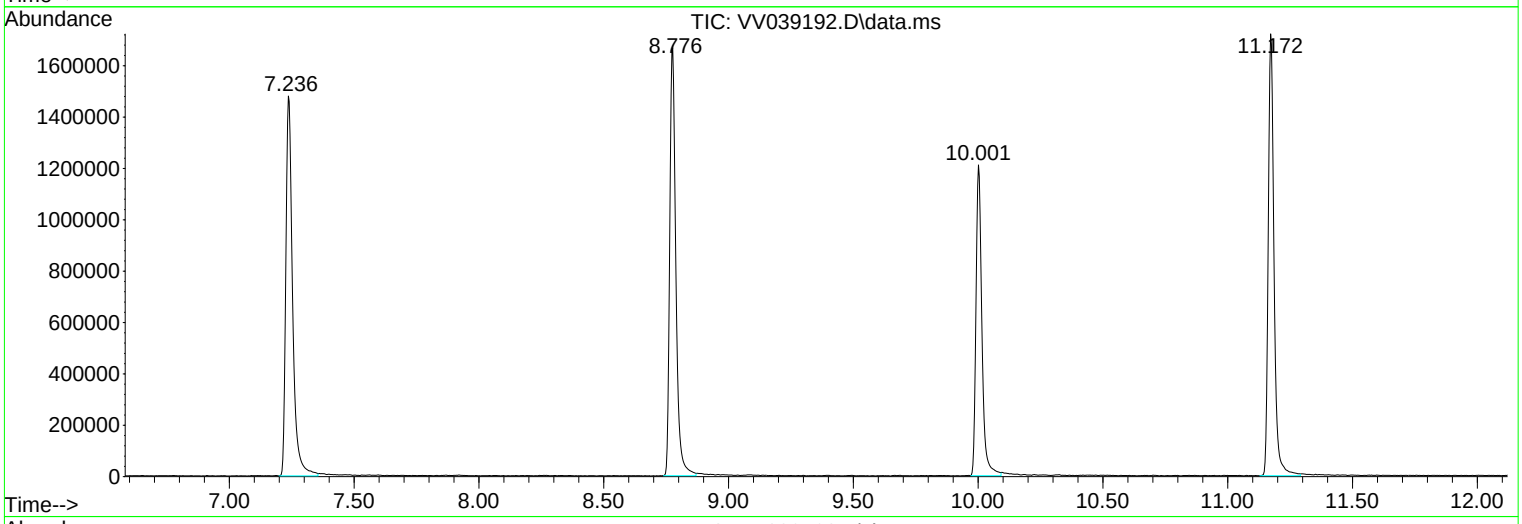
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039192.D
Acq On : 25 Sep 2025 19:17
Operator : SY/MD
Sample : Q3195-02
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 26 Sample Multiplier: 1

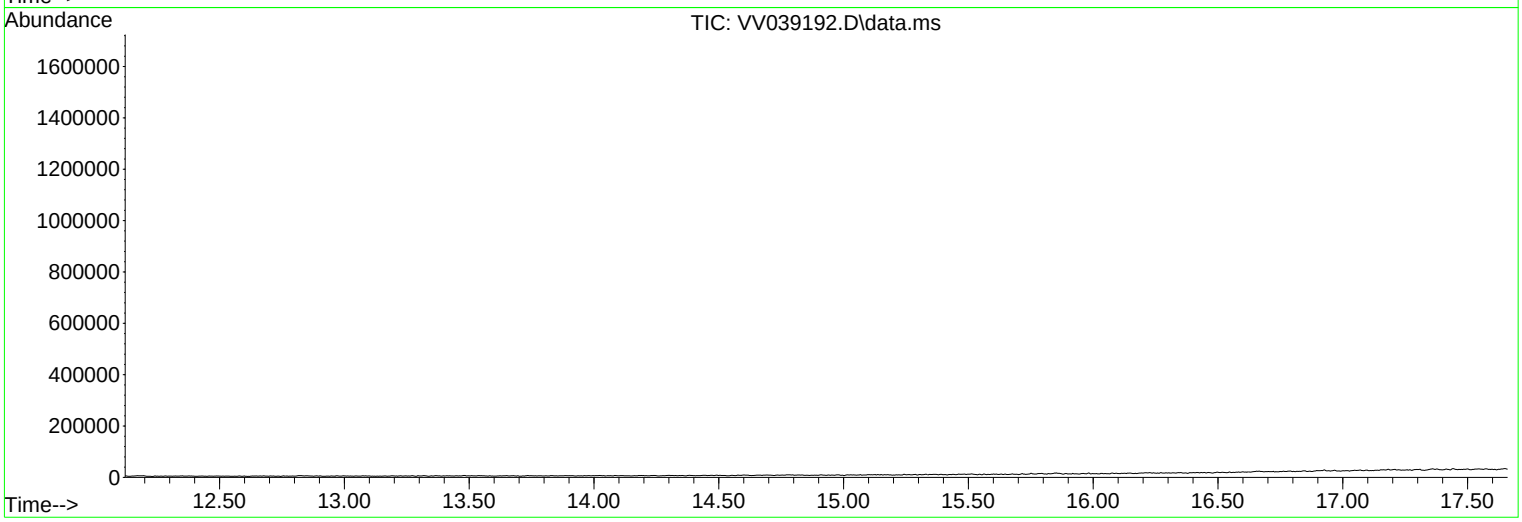
**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-1-091725

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039192.D
Acq On : 25 Sep 2025 19:17
Operator : SY/MD
Sample : Q3195-02
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-1-091725

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039192.D
Acq On : 25 Sep 2025 19:17
Operator : SY/MD
Sample : Q3195-02
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-1-091725

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/15/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-3-091525 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-03 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039207.D | 1 | 09/26/25 13:06 | VV092625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.69 | J | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.33 | U | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.25 | U | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 2.00 | | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 1.50 | U | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 0.27 | U | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.60 | J | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.68 | J | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 1.50 | U | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 70.5 | | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.25 | U | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.16 | U | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 48.6 | | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | U | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.14 | U | 0.14 | 1.00 | ug/L |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/15/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-3-091525 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-03 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039207.D | 1 | 09/26/25 13:06 | VV092625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.15 | U | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | U | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | U | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.53 | U | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 56.4 | | 74 - 125 | 113% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 53.0 | | 75 - 124 | 106% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 46.8 | | 86 - 113 | 94% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 44.5 | | 77 - 121 | 89% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 600000 | 4.6 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 1060000 | 5.532 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 1060000 | 8.776 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 513000 | 11.175 | | | |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/15/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-3-091525 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-03 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039207.D | 1 | 09/26/25 13:06 | VV092625 |

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039207.D
Acq On : 26 Sep 2025 13:06
Operator : SY/MD
Sample : Q3195-03
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-3-091525

Quant Time: Sep 27 02:54:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

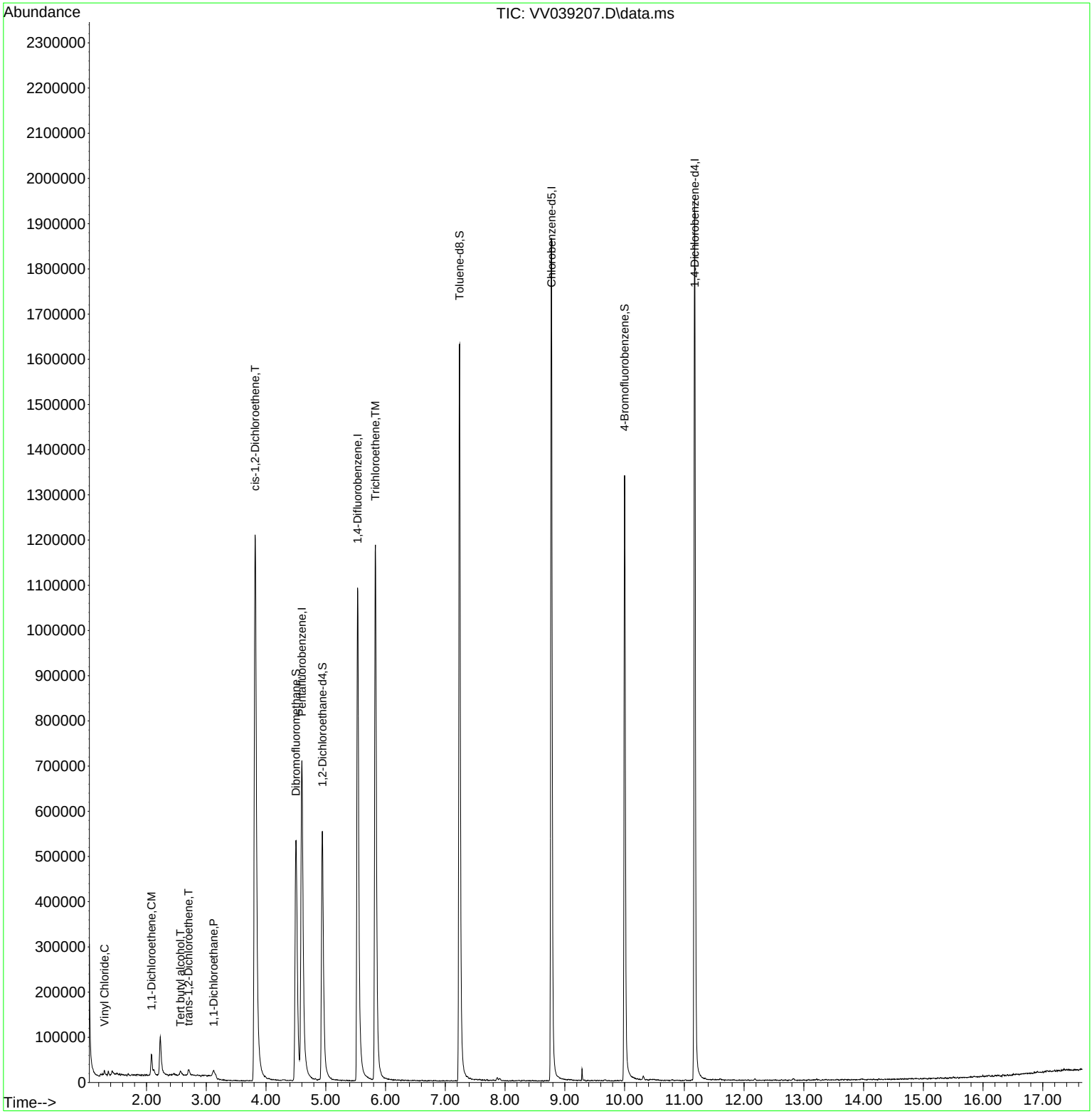
| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 4.600 | 168 | 599898 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 5.532 | 114 | 1062714 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 8.776 | 117 | 1062408 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.175 | 152 | 512995 | 50.000 | ug/l | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.944 | 65 | 489586 | 56.389 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 112.780% | | | | |
| 35) Dibromofluoromethane | 4.503 | 113 | 452849 | 53.006 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 106.020% | | | | |
| 50) Toluene-d8 | 7.239 | 98 | 1175353 | 46.842 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 93.680% | | | | |
| 62) 4-Bromofluorobenzene | 10.001 | 95 | 460084 | 44.540 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 89.080% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 4) Vinyl Chloride | 1.298 | 62 | 7551 | 0.692 | ug/l | | 95 |
| 11) Tert butyl alcohol | 2.568 | 59 | 3877 | 2.113 | ug/l | # | 91 |
| 12) 1,1-Dichloroethene | 2.082 | 96 | 18071 | 1.998 | ug/l | | 91 |
| 21) trans-1,2-Dichloroethene | 2.703 | 96 | 5753 | 0.597 | ug/l | | 96 |
| 24) 1,1-Dichloroethane | 3.124 | 63 | 12888 | 0.682 | ug/l | # | 94 |
| 27) cis-1,2-Dichloroethene | 3.818 | 96 | 749183 | 70.547 | ug/l | | 87 |
| 44) Trichloroethene | 5.831 | 130 | 472103 | 48.641 | ug/l | | 97 |

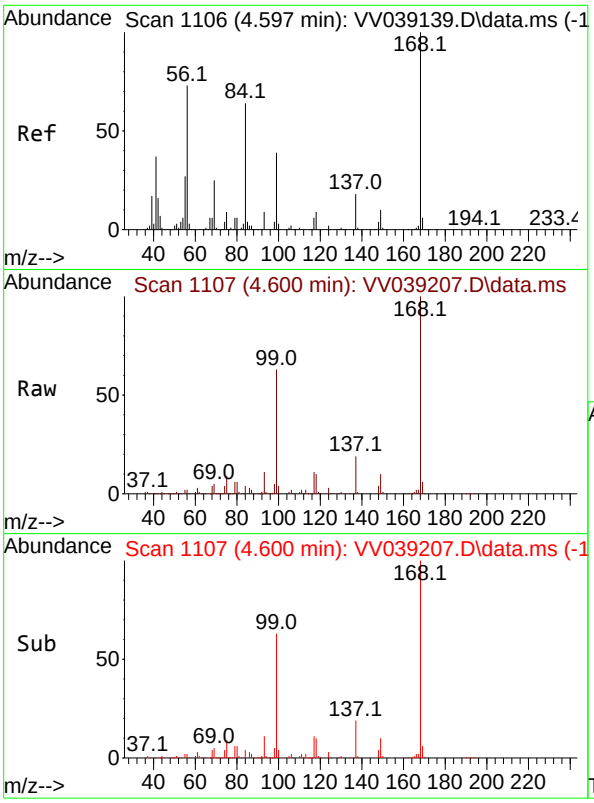
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039207.D
Acq On : 26 Sep 2025 13:06
Operator : SY/MD
Sample : Q3195-03
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-3-091525

Quant Time: Sep 27 02:54:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



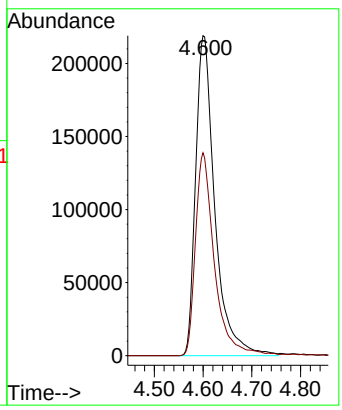


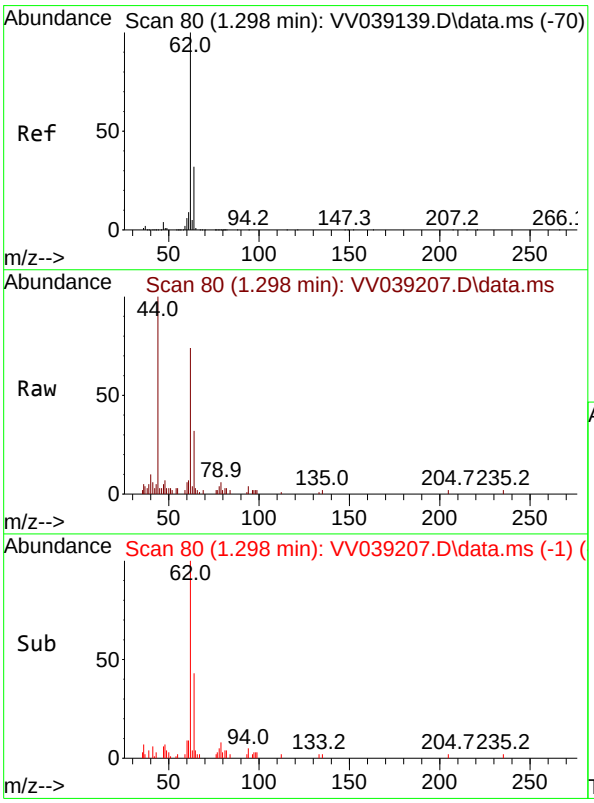

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039207.D
Acq: 26 Sep 2025 13:06

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-3-091525

Tgt Ion:168 Resp: 599898

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 63.4 | 49.6 | 74.4 |

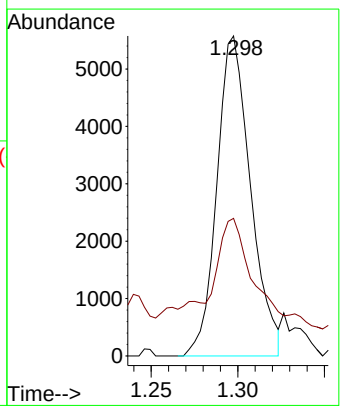


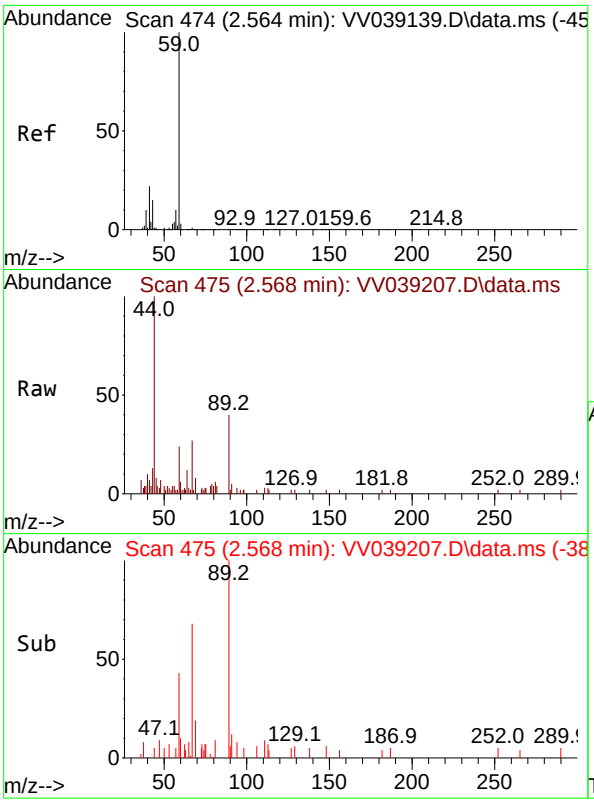




#4
Vinyl Chloride
Concen: 0.692 ug/l
RT: 1.298 min Scan# 80
Delta R.T. -0.000 min
Lab File: VV039207.D
Acq: 26 Sep 2025 13:06

Tgt Ion: 62 Resp: 7551

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 29.2 | 25.6 | 38.4 |



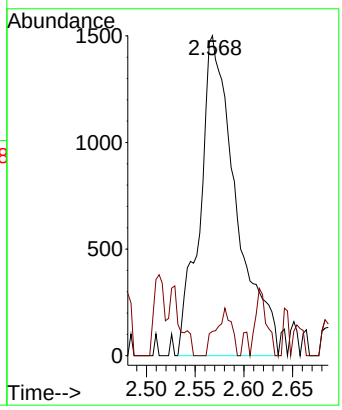


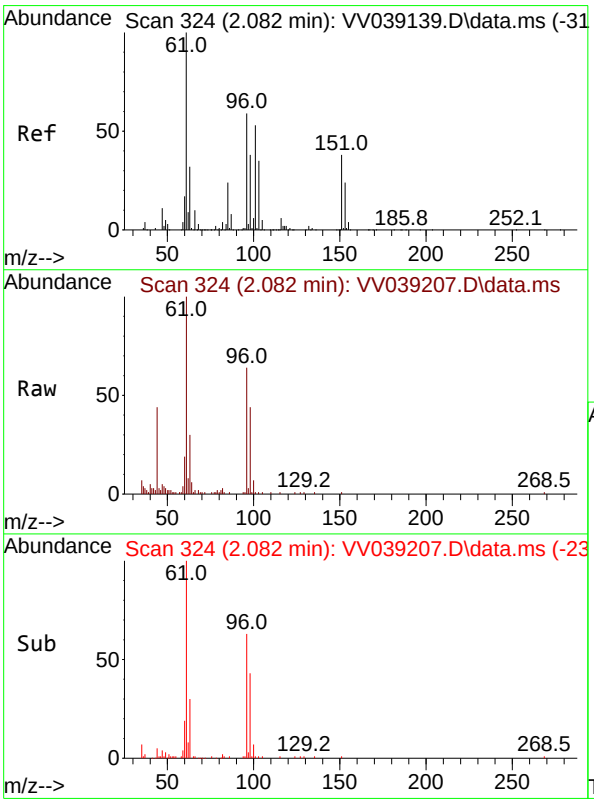

#11
Tert butyl alcohol
Concen: 2.113 ug/l
RT: 2.568 min Scan# 4
Delta R.T. 0.003 min
Lab File: VV039207.D
Acq: 26 Sep 2025 13:06

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-3-091525

Tgt Ion: 59 Resp: 3877

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 6.3 | 7.8 | 11.8# |

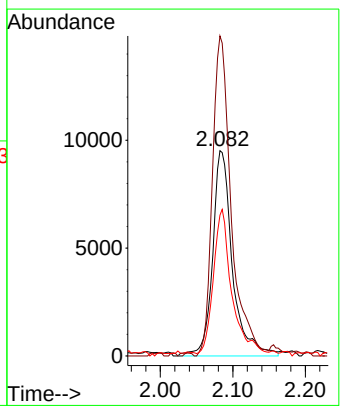


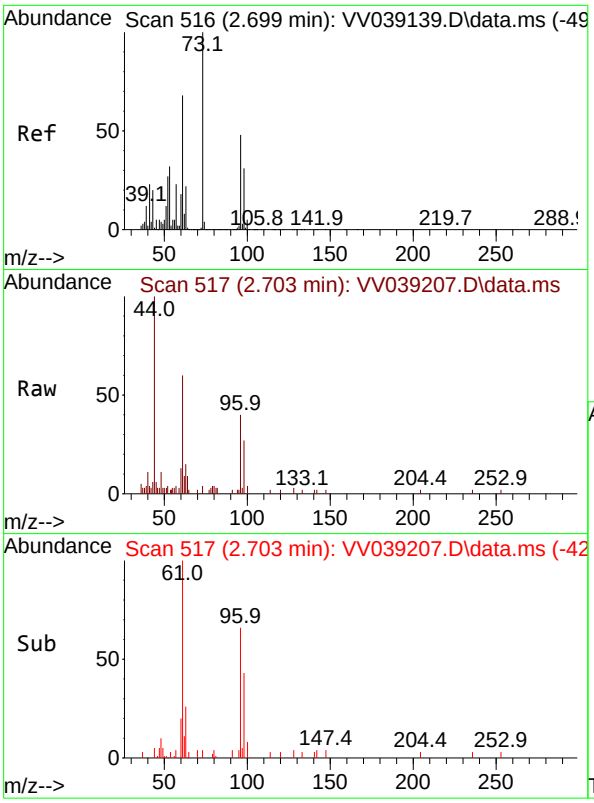




#12
1,1-Dichloroethene
Concen: 1.998 ug/l
RT: 2.082 min Scan# 324
Delta R.T. -0.000 min
Lab File: VV039207.D
Acq: 26 Sep 2025 13:06

Tgt Ion: 96 Resp: 18071

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 155.9 | 136.0 | 204.0 |
| 98 | 67.2 | 51.0 | 76.6 |



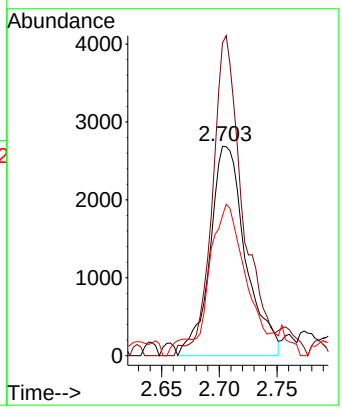


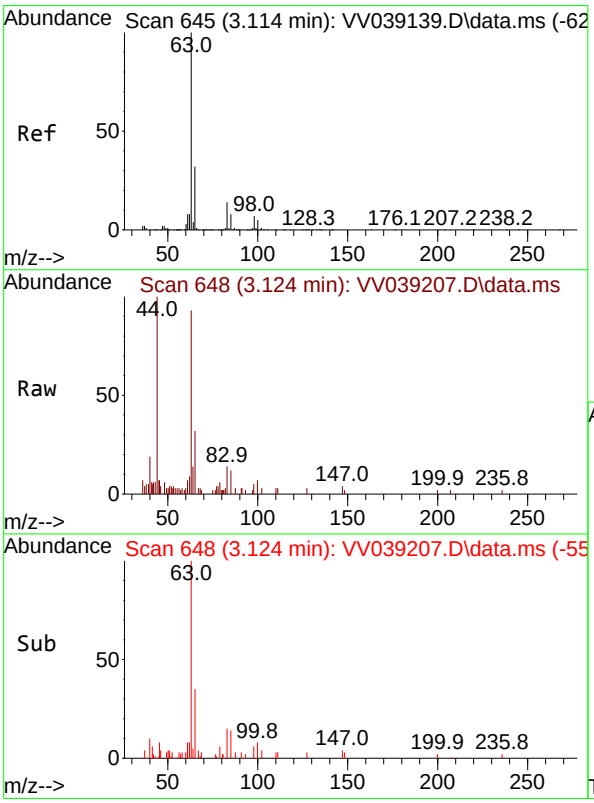

#21
trans-1,2-Dichloroethene
Concen: 0.597 ug/l
RT: 2.703 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039207.D
Acq: 26 Sep 2025 13:06

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-3-091525

Tgt Ion: 96 Resp: 5753

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 144.5 | 112.8 | 169.2 |
| 98 | 59.7 | 51.1 | 76.7 |

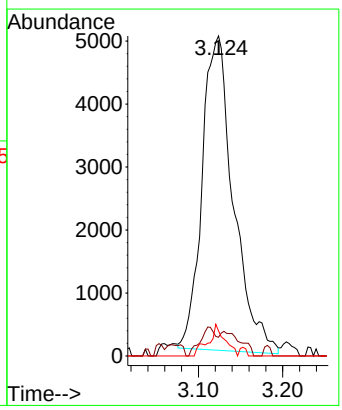


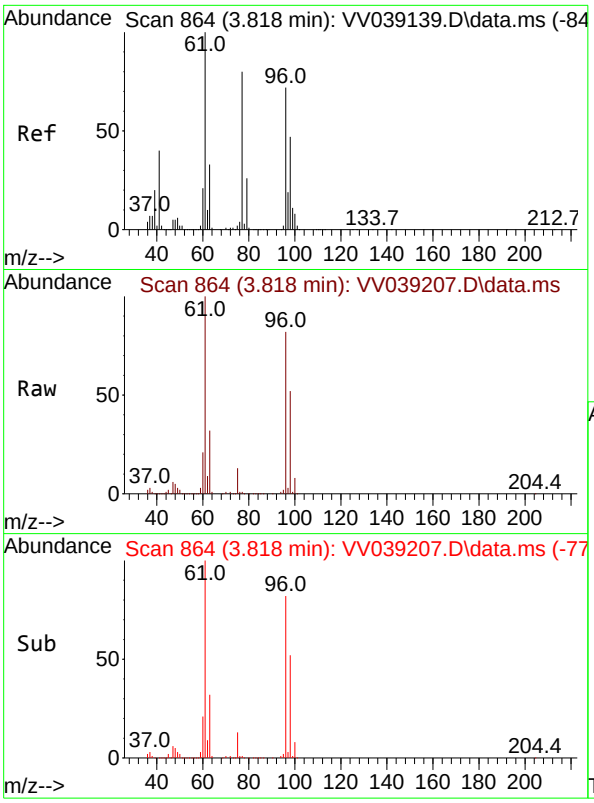




#24
1,1-Dichloroethane
Concen: 0.682 ug/l
RT: 3.124 min Scan# 648
Delta R.T. 0.010 min
Lab File: VV039207.D
Acq: 26 Sep 2025 13:06

Tgt Ion: 63 Resp: 12888

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.0 | 3.4 | 10.2 |
| 100 | 8.1 | 2.2 | 6.6# |



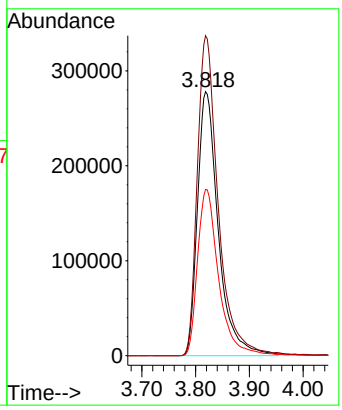


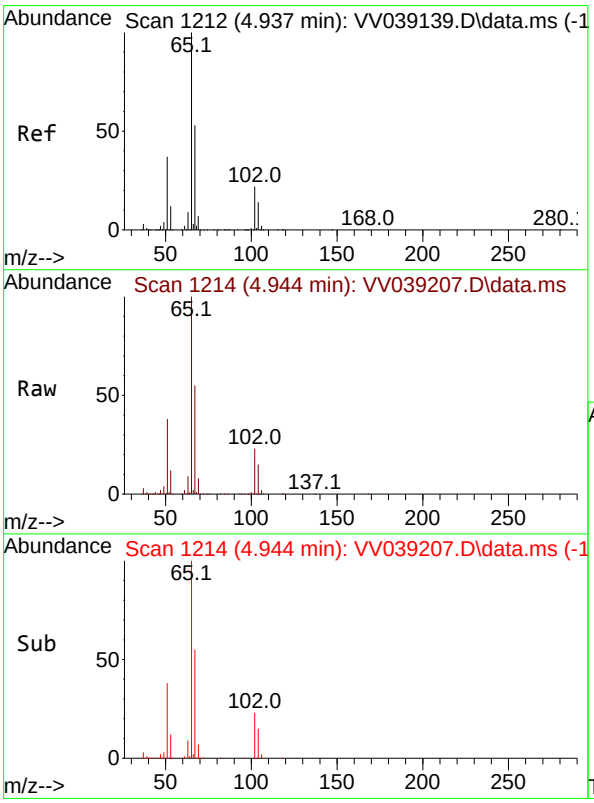

#27
cis-1,2-Dichloroethene
Concen: 70.547 ug/l
RT: 3.818 min Scan# 8
Delta R.T. -0.000 min
Lab File: VV039207.D
Acq: 26 Sep 2025 13:06

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-3-091525

Tgt Ion: 96 Resp: 749183

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 121.2 | 0.0 | 286.4 |
| 98 | 63.9 | 0.0 | 126.6 |

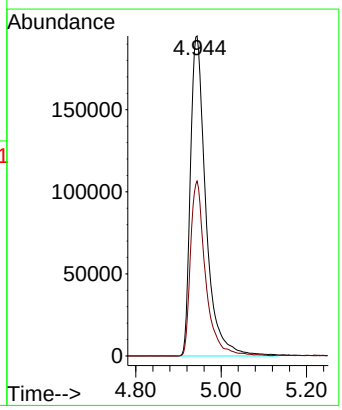


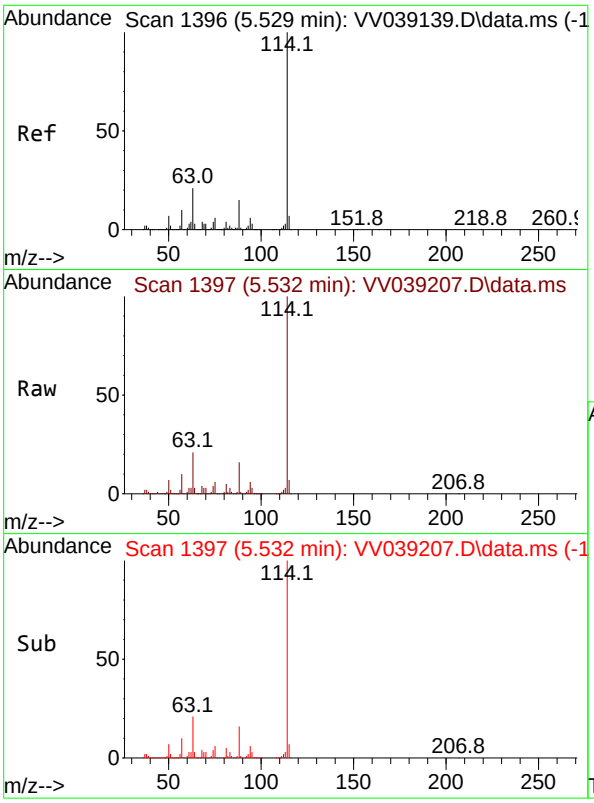




#33
1,2-Dichloroethane-d4
Concen: 56.389 ug/l
RT: 4.944 min Scan# 1214
Delta R.T. 0.006 min
Lab File: VV039207.D
Acq: 26 Sep 2025 13:06

Tgt Ion: 65 Resp: 489586

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.2 | 0.0 | 107.0 |



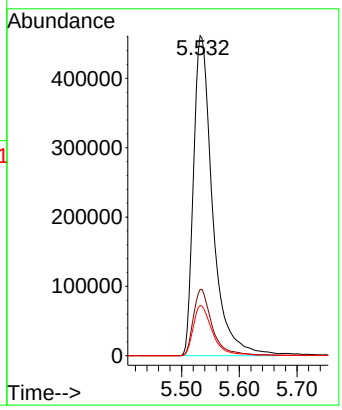


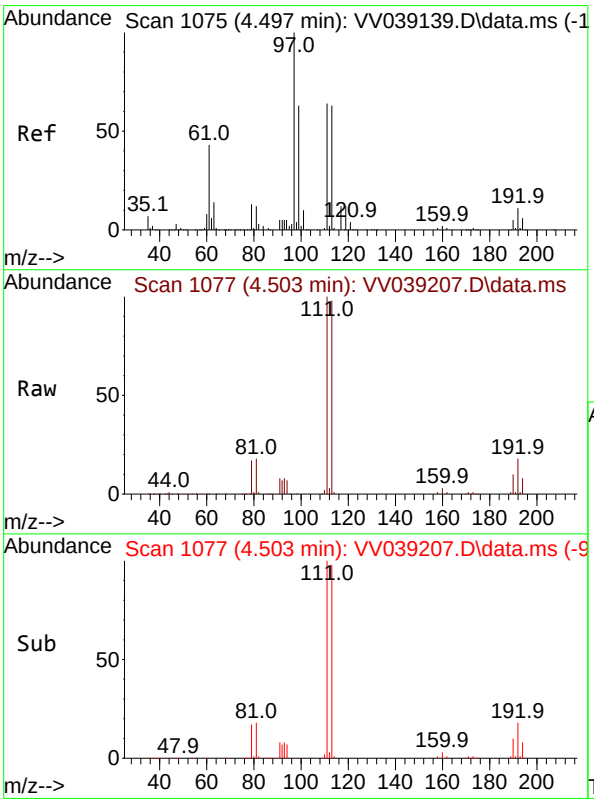

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039207.D
Acq: 26 Sep 2025 13:06

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-3-091525

Tgt Ion:114 Resp: 1062714

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.7 | 0.0 | 42.6 |
| 88 | 15.7 | 0.0 | 30.8 |

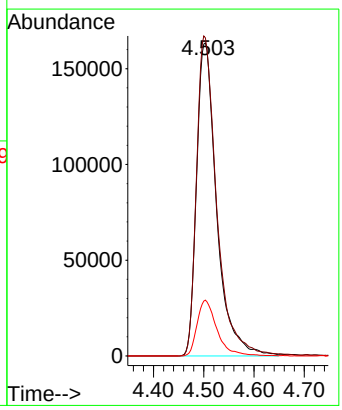


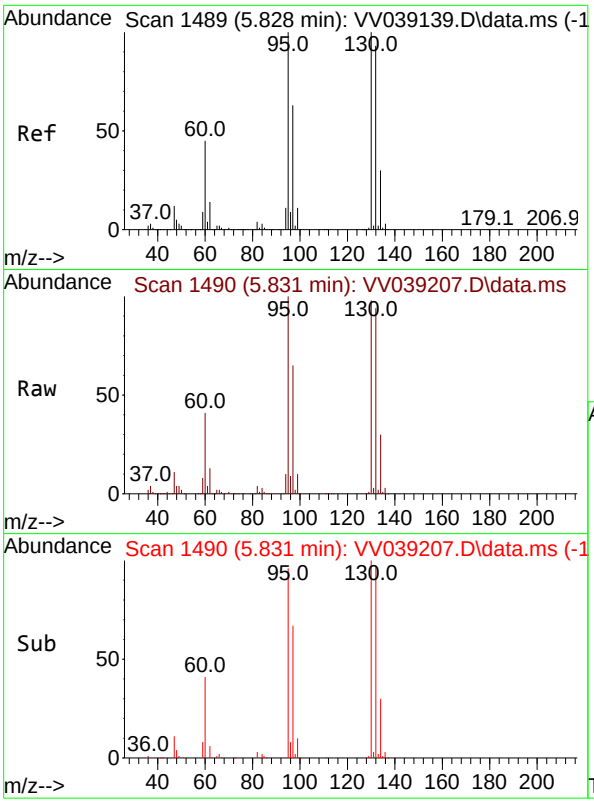




#35
Dibromofluoromethane
Concen: 53.006 ug/l
RT: 4.503 min Scan# 1077
Delta R.T. 0.006 min
Lab File: VV039207.D
Acq: 26 Sep 2025 13:06

Tgt Ion:113 Resp: 452849

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.1 | 82.4 | 123.6 |
| 192 | 17.6 | 13.8 | 20.8 |



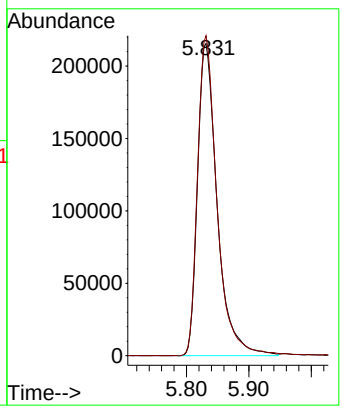


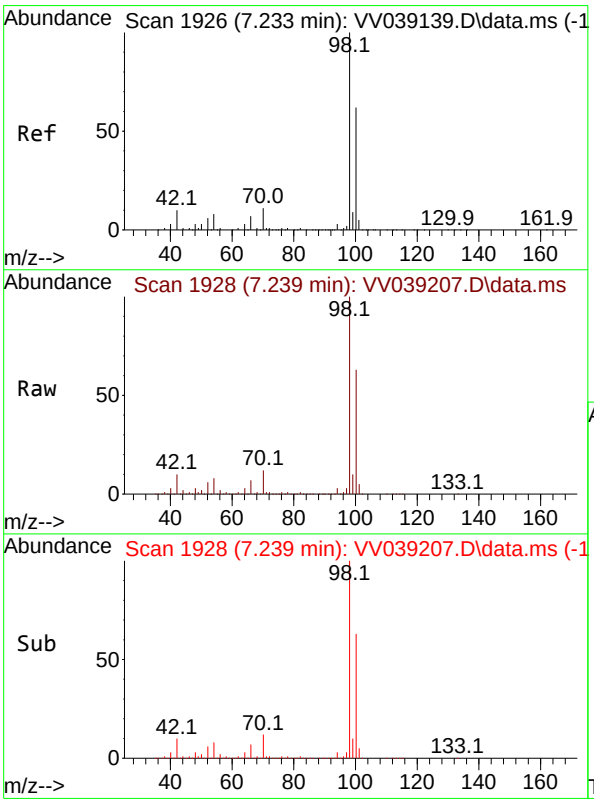

#44
Trichloroethene
Concen: 48.641 ug/l
RT: 5.831 min Scan# 14
Delta R.T. 0.003 min
Lab File: VV039207.D
Acq: 26 Sep 2025 13:06

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-3-091525

Tgt Ion:130 Resp: 472103

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 102.5 | 0.0 | 199.2 |

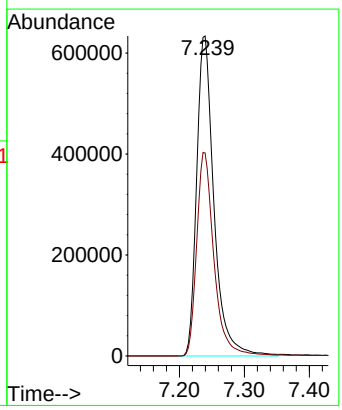


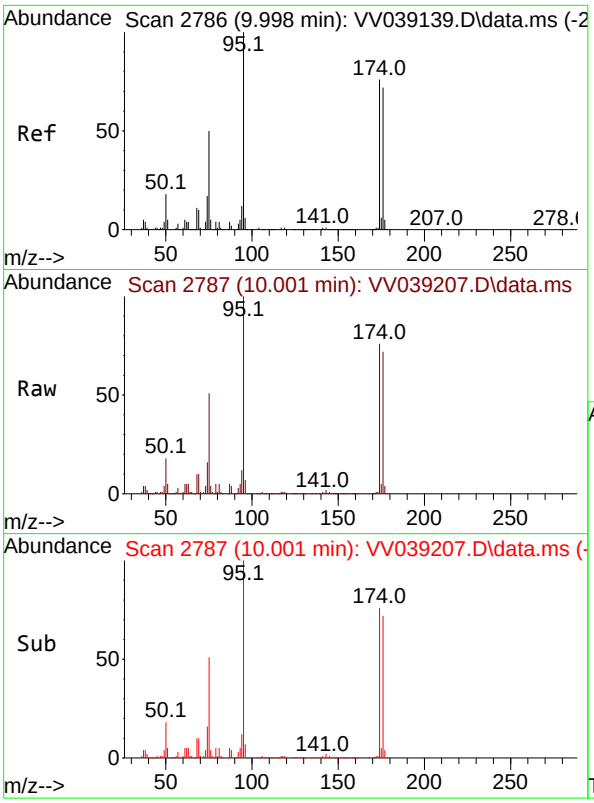




#50
Toluene-d8
Concen: 46.842 ug/l
RT: 7.239 min Scan# 1928
Delta R.T. 0.006 min
Lab File: VV039207.D
Acq: 26 Sep 2025 13:06

Tgt Ion: 98 Resp: 1175353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.7 | 52.2 | 78.2 |



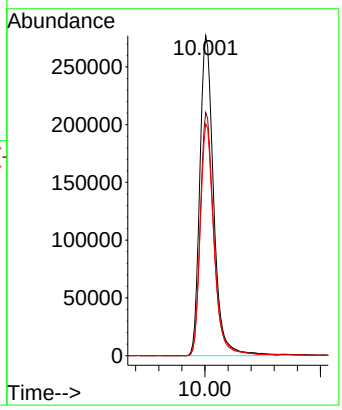


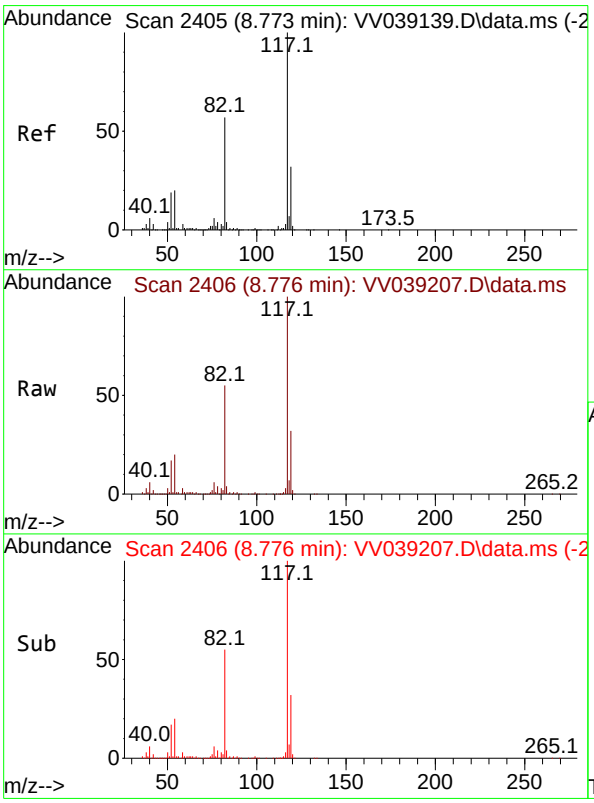

#62
4-Bromofluorobenzene
Concen: 44.540 ug/l
RT: 10.001 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039207.D
Acq: 26 Sep 2025 13:06

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-3-091525

Tgt Ion: 95 Resp: 460084

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 75.3 | 0.0 | 150.4 |
| 176 | 71.7 | 0.0 | 144.2 |

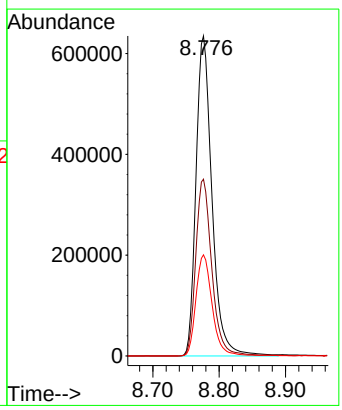


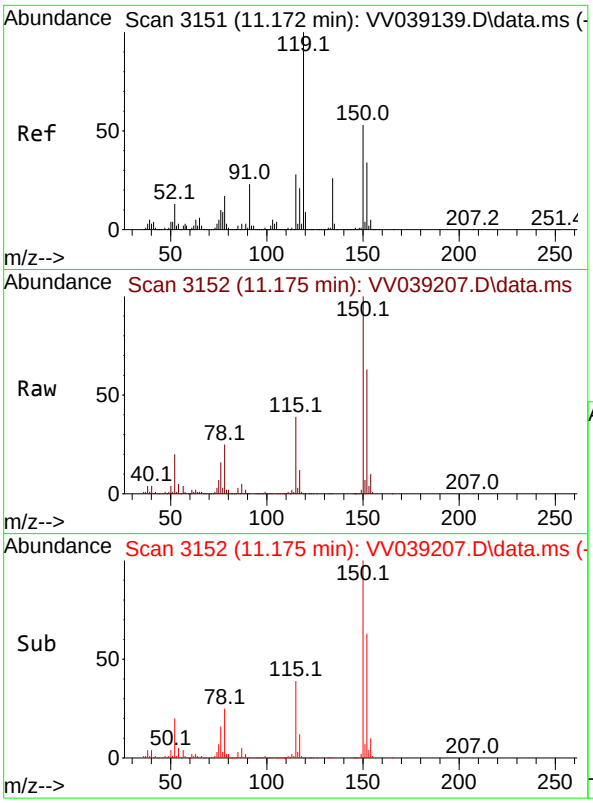




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039207.D
Acq: 26 Sep 2025 13:06

Tgt Ion:117 Resp: 1062408

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 55.2 | 45.4 | 68.2 |
| 119 | 31.6 | 25.6 | 38.4 |



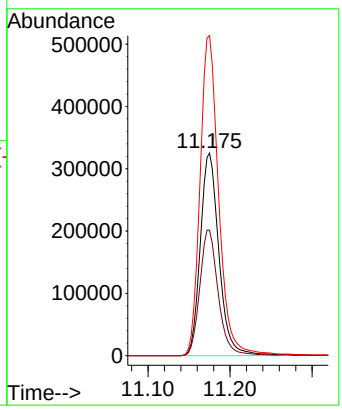



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039207.D
Acq: 26 Sep 2025 13:06

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-3-091525

Tgt Ion:152 Resp: 512995

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 61.4 | 44.8 | 134.4 |
| 150 | 159.0 | 0.0 | 353.8 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039207.D
Acq On : 26 Sep 2025 13:06
Operator : SY/MD
Sample : Q3195-03
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-3-091525

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039207.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.082 | 315 | 324 | 334 | rBV2 | 45946 | 80131 | 2.37% | 0.318% |
| 2 | 2.230 | 361 | 370 | 388 | rBV | 82327 | 167263 | 4.96% | 0.665% |
| 3 | 3.124 | 638 | 648 | 668 | rVB4 | 19424 | 65148 | 1.93% | 0.259% |
| 4 | 3.818 | 848 | 864 | 913 | rBV2 | 1208122 | 3374322 | 100.00% | 13.408% |
| 5 | 4.503 | 1057 | 1077 | 1095 | rBV2 | 532037 | 1419352 | 42.06% | 5.640% |
| 6 | 4.600 | 1095 | 1107 | 1156 | rVB | 703810 | 1951526 | 57.83% | 7.755% |
| 7 | 4.944 | 1200 | 1214 | 1255 | rBV | 549277 | 1358900 | 40.27% | 5.400% |
| 8 | 5.532 | 1385 | 1397 | 1450 | rBV | 1090352 | 2550571 | 75.59% | 10.135% |
| 9 | 5.831 | 1477 | 1490 | 1528 | rBV | 1181957 | 2591587 | 76.80% | 10.298% |
| 10 | 7.239 | 1915 | 1928 | 1963 | rBV | 1630772 | 3070851 | 91.01% | 12.202% |
| 11 | 8.776 | 2394 | 2406 | 2448 | rBV | 1864078 | 3193515 | 94.64% | 12.690% |
| 12 | 10.001 | 2776 | 2787 | 2826 | rBV | 1338773 | 2234748 | 66.23% | 8.880% |
| 13 | 11.175 | 3140 | 3152 | 3181 | rBV | 1949581 | 3108398 | 92.12% | 12.351% |

Sum of corrected areas: 25166312

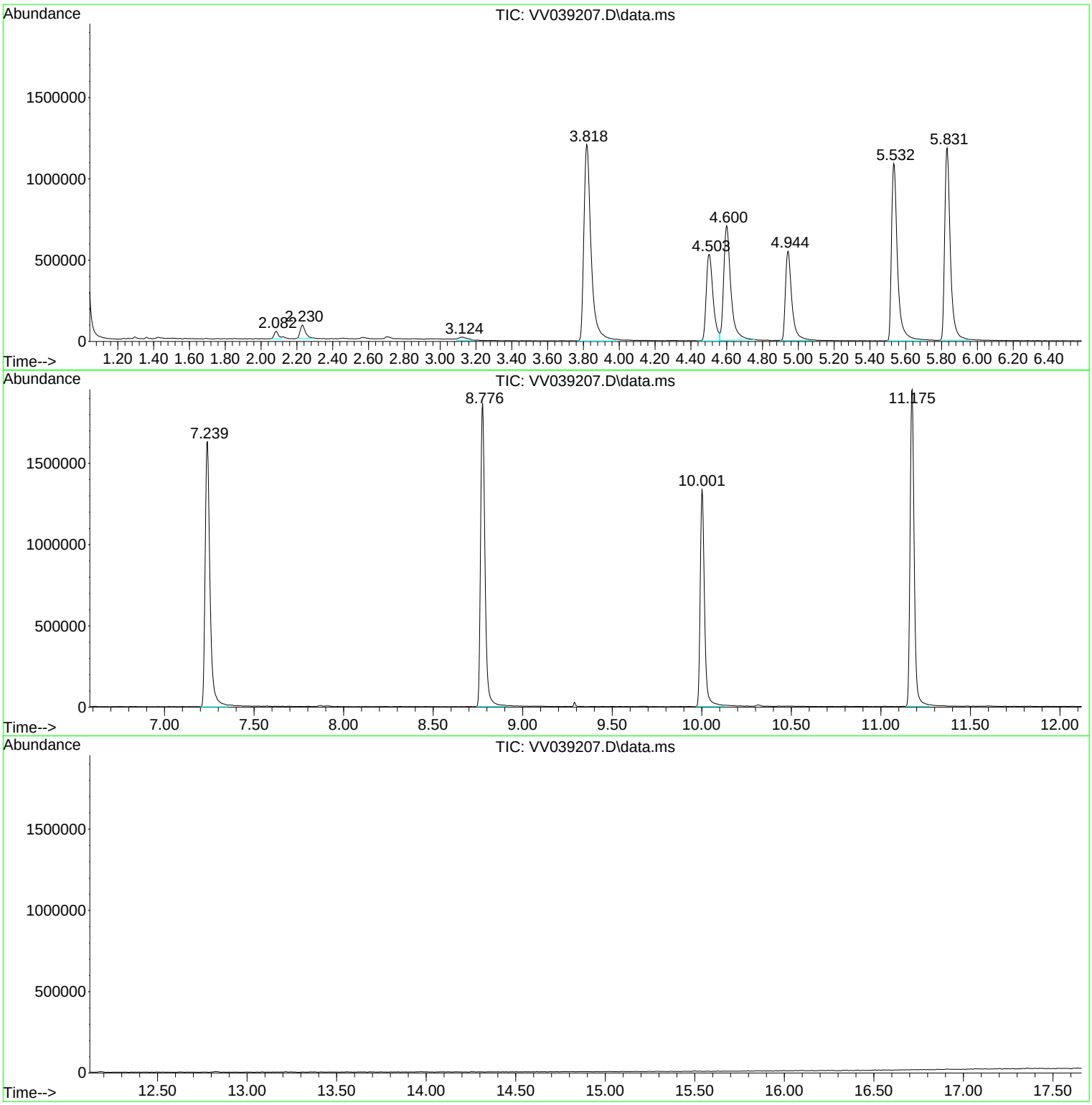
Sample Results: **VV039207.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039207.D
Acq On : 26 Sep 2025 13:06
Operator : SY/MD
Sample : Q3195-03
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-3-091525

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039207.D
Acq On : 26 Sep 2025 13:06
Operator : SY/MD
Sample : Q3195-03
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-3-091525

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039207.D
Acq On : 26 Sep 2025 13:06
Operator : SY/MD
Sample : Q3195-03
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-3-091525

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/16/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-4-091625 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-04 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039205.D | 100 | 09/26/25 12:21 | VV092625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 22.0 | U | 22.0 | 100 | ug/L |
| 74-87-3 | Chloromethane | 32.0 | U | 32.0 | 100 | ug/L |
| 75-01-4 | Vinyl Chloride | 26.0 | U | 26.0 | 100 | ug/L |
| 74-83-9 | Bromomethane | 140 | U | 140 | 500 | ug/L |
| 75-00-3 | Chloroethane | 47.0 | U | 47.0 | 100 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 33.0 | U | 33.0 | 100 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 25.0 | U | 25.0 | 100 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 150 | | 23.0 | 100 | ug/L |
| 67-64-1 | Acetone | 150 | U | 150 | 500 | ug/L |
| 75-15-0 | Carbon Disulfide | 21.0 | U | 21.0 | 100 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 16.0 | U | 16.0 | 100 | ug/L |
| 79-20-9 | Methyl Acetate | 27.0 | U | 27.0 | 100 | ug/L |
| 75-09-2 | Methylene Chloride | 28.0 | U | 28.0 | 100 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 23.0 | U | 23.0 | 100 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 23.0 | U | 23.0 | 100 | ug/L |
| 110-82-7 | Cyclohexane | 150 | U | 150 | 500 | ug/L |
| 78-93-3 | 2-Butanone | 98.0 | U | 98.0 | 500 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 25.0 | U | 25.0 | 100 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 1600 | | 19.0 | 100 | ug/L |
| 74-97-5 | Bromochloromethane | 22.0 | U | 22.0 | 100 | ug/L |
| 67-66-3 | Chloroform | 25.0 | U | 25.0 | 100 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 20.0 | U | 20.0 | 100 | ug/L |
| 108-87-2 | Methylcyclohexane | 16.0 | U | 16.0 | 100 | ug/L |
| 71-43-2 | Benzene | 15.0 | U | 15.0 | 100 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 22.0 | U | 22.0 | 100 | ug/L |
| 79-01-6 | Trichloroethene | 9500 | | 9.30 | 100 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 20.0 | U | 20.0 | 100 | ug/L |
| 75-27-4 | Bromodichloromethane | 22.0 | U | 22.0 | 100 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 68.0 | U | 68.0 | 500 | ug/L |
| 108-88-3 | Toluene | 14.0 | U | 14.0 | 100 | ug/L |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/16/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-4-091625 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-04 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039205.D | 100 | 09/26/25 12:21 | VV092625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 17.0 | U | 17.0 | 100 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 16.0 | U | 16.0 | 100 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 21.0 | U | 21.0 | 100 | ug/L |
| 591-78-6 | 2-Hexanone | 89.0 | U | 89.0 | 500 | ug/L |
| 124-48-1 | Dibromochloromethane | 18.0 | U | 18.0 | 100 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 15.0 | U | 15.0 | 100 | ug/L |
| 127-18-4 | Tetrachloroethene | 23.0 | U | 23.0 | 100 | ug/L |
| 108-90-7 | Chlorobenzene | 12.0 | U | 12.0 | 100 | ug/L |
| 100-41-4 | Ethyl Benzene | 13.0 | U | 13.0 | 100 | ug/L |
| 179601-23-1 | m/p-Xylenes | 24.0 | U | 24.0 | 200 | ug/L |
| 95-47-6 | o-Xylene | 12.0 | U | 12.0 | 100 | ug/L |
| 100-42-5 | Styrene | 15.0 | U | 15.0 | 100 | ug/L |
| 75-25-2 | Bromoform | 19.0 | U | 19.0 | 100 | ug/L |
| 98-82-8 | Isopropylbenzene | 12.0 | U | 12.0 | 100 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 26.0 | U | 26.0 | 100 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 16.0 | U | 16.0 | 100 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 19.0 | U | 19.0 | 100 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 16.0 | U | 16.0 | 100 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 53.0 | U | 53.0 | 100 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 20.0 | U | 20.0 | 100 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 20.0 | U | 20.0 | 100 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 56.0 | | 74 - 125 | 112% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 52.9 | | 75 - 124 | 106% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 46.2 | | 86 - 113 | 92% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 44.1 | | 77 - 121 | 88% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 514000 | 4.6 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 924000 | 5.535 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 912000 | 8.776 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 438000 | 11.172 | | | |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/16/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-4-091625 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-04 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039205.D | 100 | 09/26/25 12:21 | VV092625 |

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039205.D
Acq On : 26 Sep 2025 12:21
Operator : SY/MD
Sample : Q3195-04 100X
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-4-091625

Quant Time: Sep 27 02:53:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

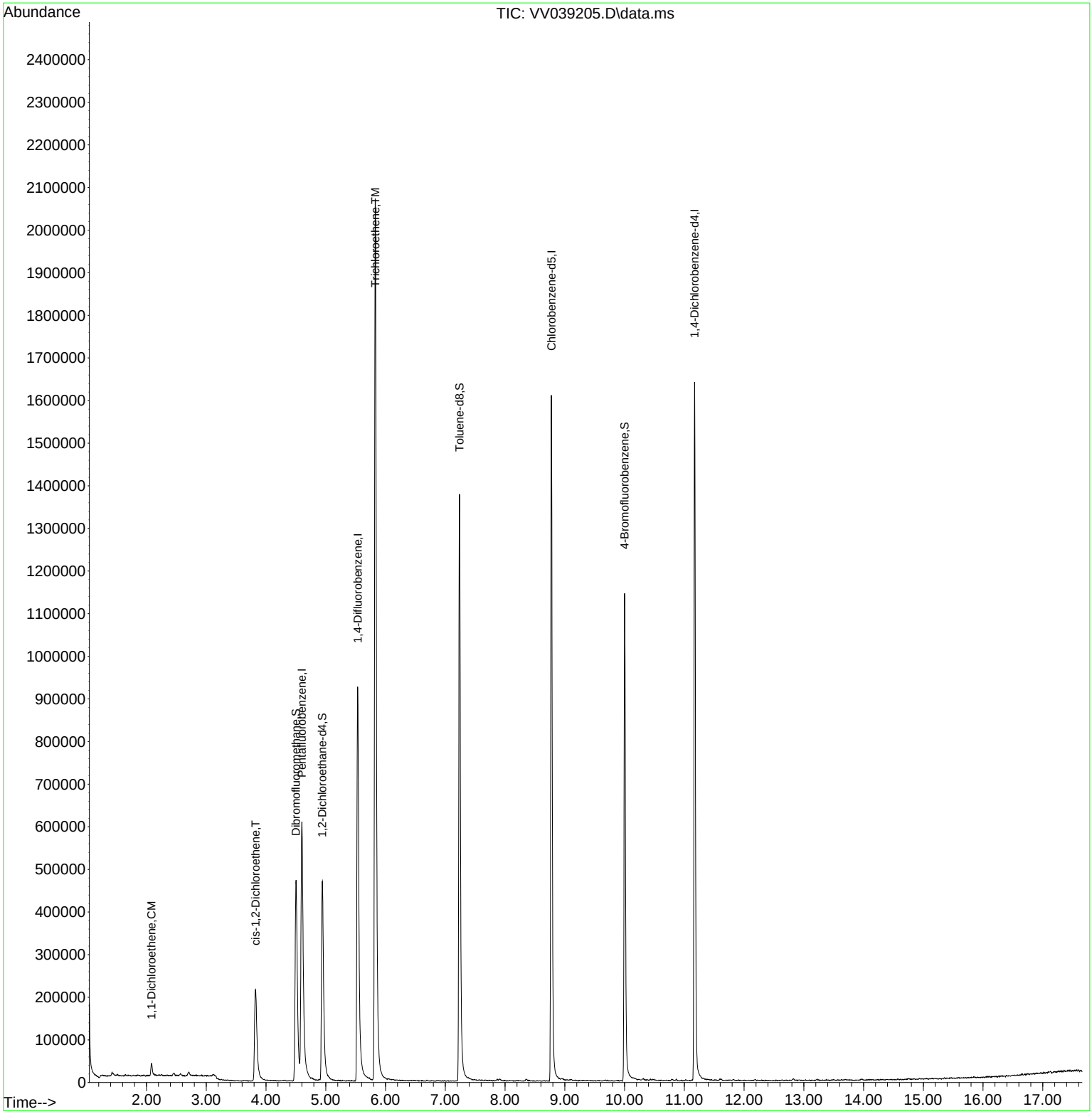
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.600 | 168 | 513652 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.535 | 114 | 924164 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.776 | 117 | 911885 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.172 | 152 | 438479 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.940 | 65 | 416085 | 55.970 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 111.940% | | | |
| 35) Dibromofluoromethane | 4.503 | 113 | 392713 | 52.858 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 105.720% | | | |
| 50) Toluene-d8 | 7.239 | 98 | 1008875 | 46.235 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 92.460% | | | |
| 62) 4-Bromofluorobenzene | 10.001 | 95 | 396215 | 44.107 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 88.220% | | | |
| Target Compounds | | | | | | Qvalue |
| 12) 1,1-Dichloroethene | 2.082 | 96 | 11345 | 1.465 | ug/l | 96 |
| 27) cis-1,2-Dichloroethene | 3.825 | 96 | 144878 | 15.933 | ug/l | 87 |
| 44) Trichloroethene | 5.831 | 130 | 804569 | 95.322 | ug/l | 99 |

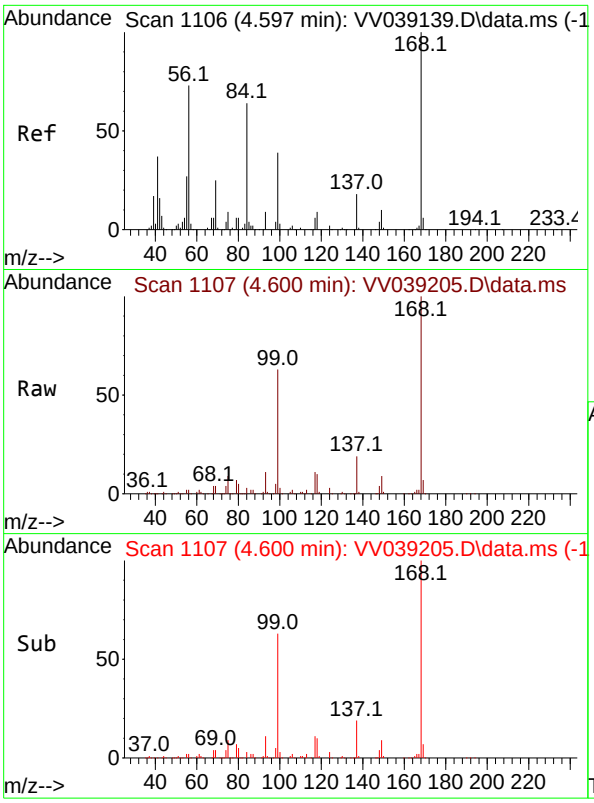
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039205.D
Acq On : 26 Sep 2025 12:21
Operator : SY/MD
Sample : Q3195-04 100X
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-4-091625

Quant Time: Sep 27 02:53:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



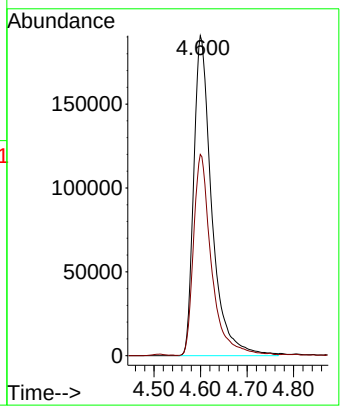


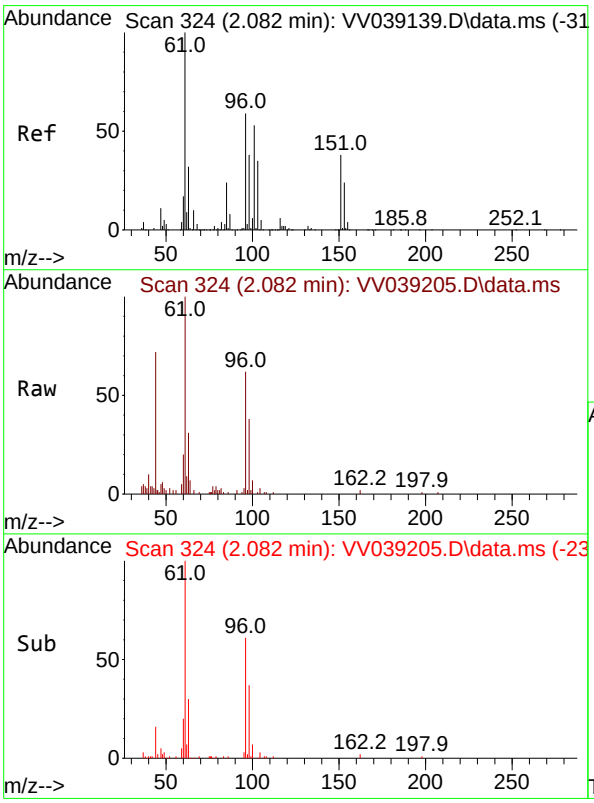

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039205.D
Acq: 26 Sep 2025 12:21

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-4-091625

Tgt Ion:168 Resp: 513652

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 62.8 | 49.6 | 74.4 |

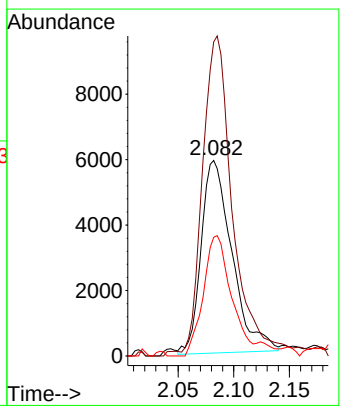


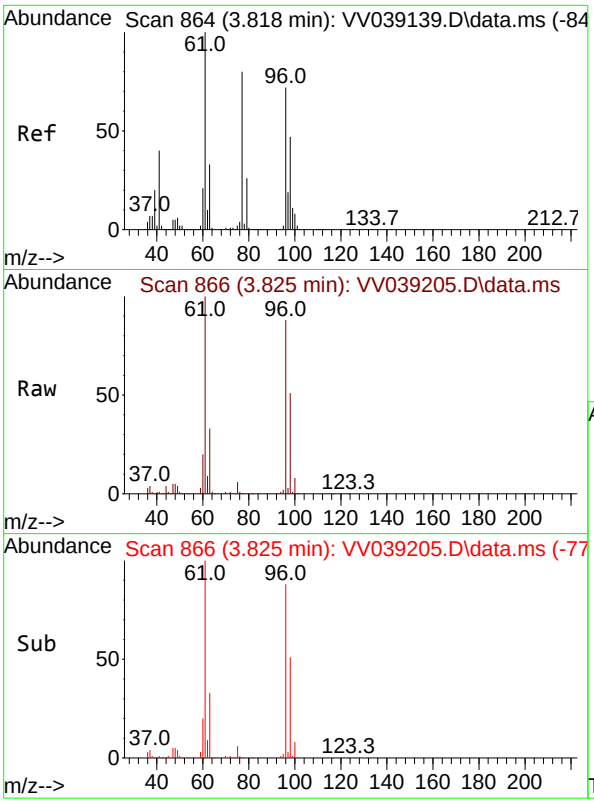




#12
1,1-Dichloroethene
Concen: 1.465 ug/l
RT: 2.082 min Scan# 324
Delta R.T. -0.000 min
Lab File: VV039205.D
Acq: 26 Sep 2025 12:21

Tgt Ion: 96 Resp: 11345

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 162.8 | 136.0 | 204.0 |
| 98 | 62.4 | 51.0 | 76.6 |



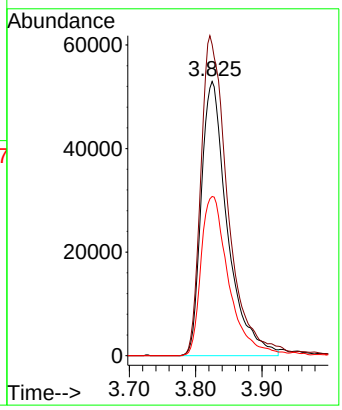


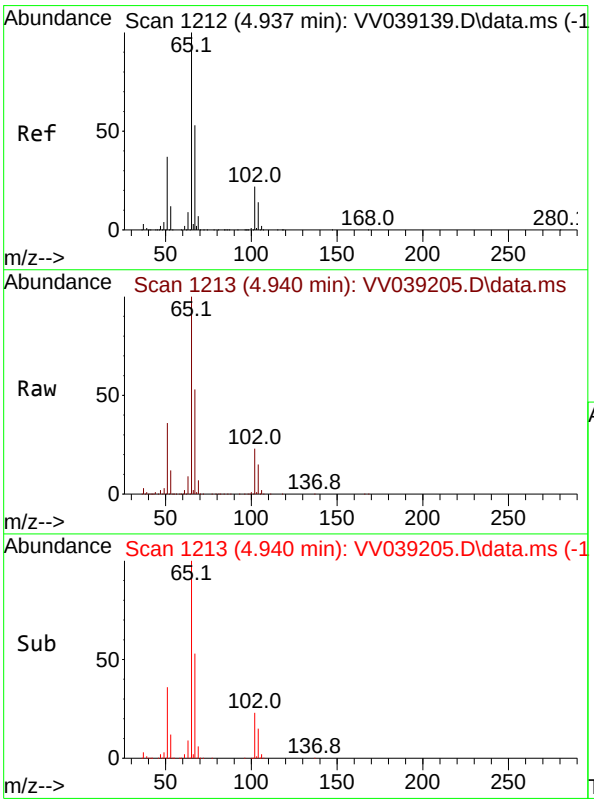

#27
cis-1,2-Dichloroethene
Concen: 15.933 ug/l
RT: 3.825 min Scan# 8
Delta R.T. 0.006 min
Lab File: VV039205.D
Acq: 26 Sep 2025 12:21

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-4-091625

Tgt Ion: 96 Resp: 144878

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 120.7 | 0.0 | 286.4 |
| 98 | 61.8 | 0.0 | 126.6 |

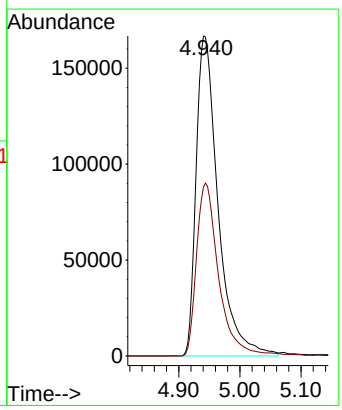


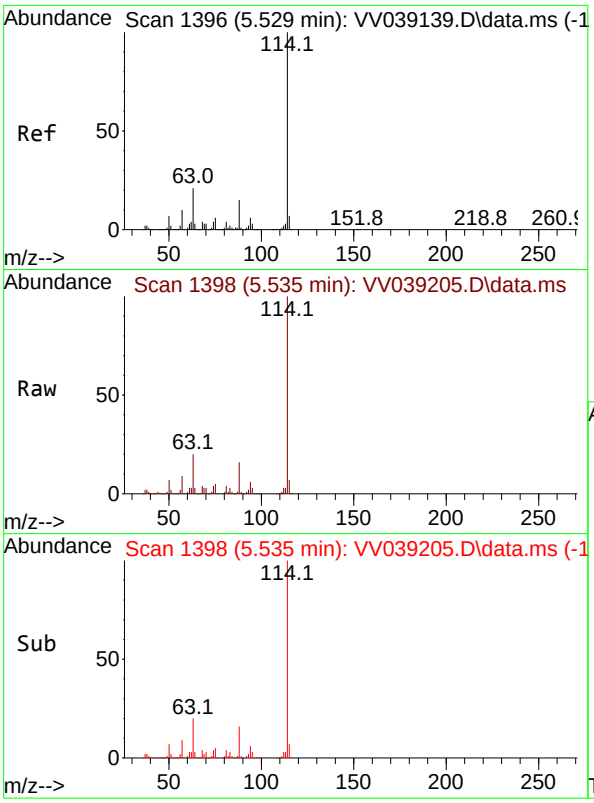




#33
1,2-Dichloroethane-d4
Concen: 55.970 ug/l
RT: 4.940 min Scan# 1213
Delta R.T. 0.003 min
Lab File: VV039205.D
Acq: 26 Sep 2025 12:21

Tgt Ion: 65 Resp: 416085

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 54.5 | 0.0 | 107.0 |



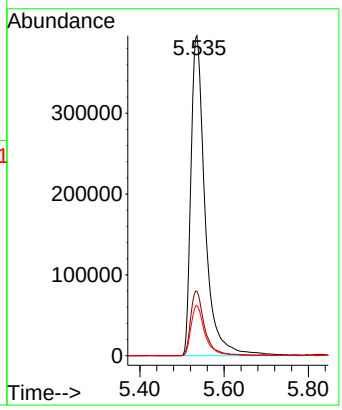


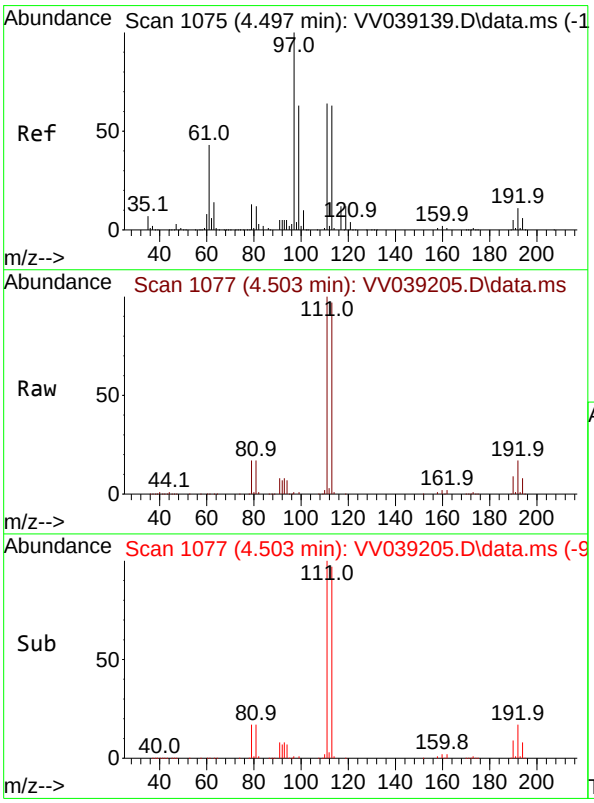

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039205.D
Acq: 26 Sep 2025 12:21

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-4-091625

Tgt Ion:114 Resp: 924164

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.1 | 0.0 | 42.6 |
| 88 | 15.7 | 0.0 | 30.8 |

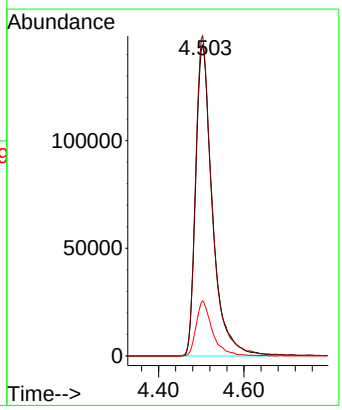


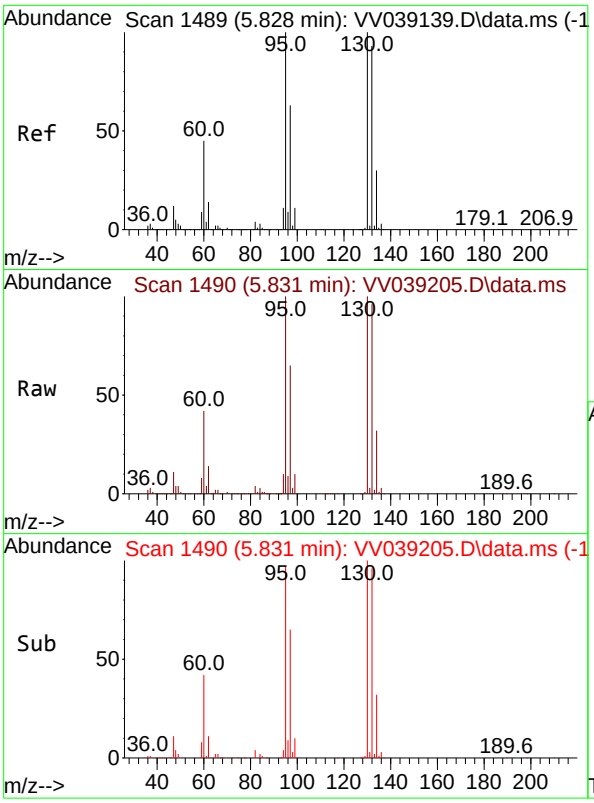




#35
Dibromofluoromethane
Concen: 52.858 ug/l
RT: 4.503 min Scan# 1077
Delta R.T. 0.006 min
Lab File: VV039205.D
Acq: 26 Sep 2025 12:21

Tgt Ion:113 Resp: 392713

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.8 | 82.4 | 123.6 |
| 192 | 17.1 | 13.8 | 20.8 |



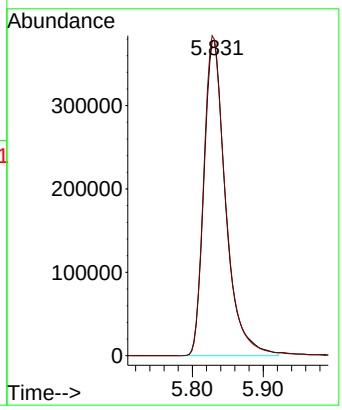


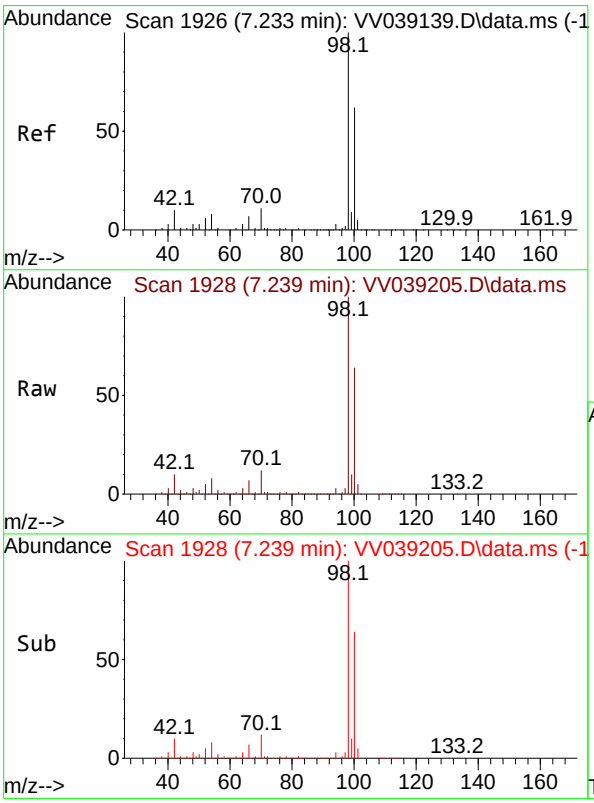

#44
Trichloroethene
Concen: 95.322 ug/l
RT: 5.831 min Scan# 14
Delta R.T. 0.003 min
Lab File: VV039205.D
Acq: 26 Sep 2025 12:21

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-4-091625

Tgt Ion:130 Resp: 804569

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 100.1 | 0.0 | 199.2 |

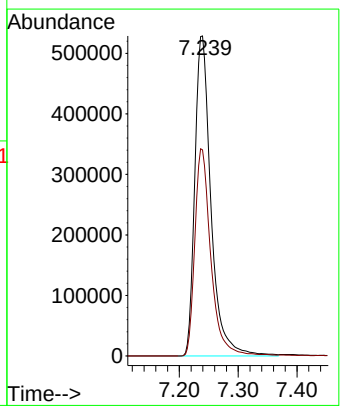


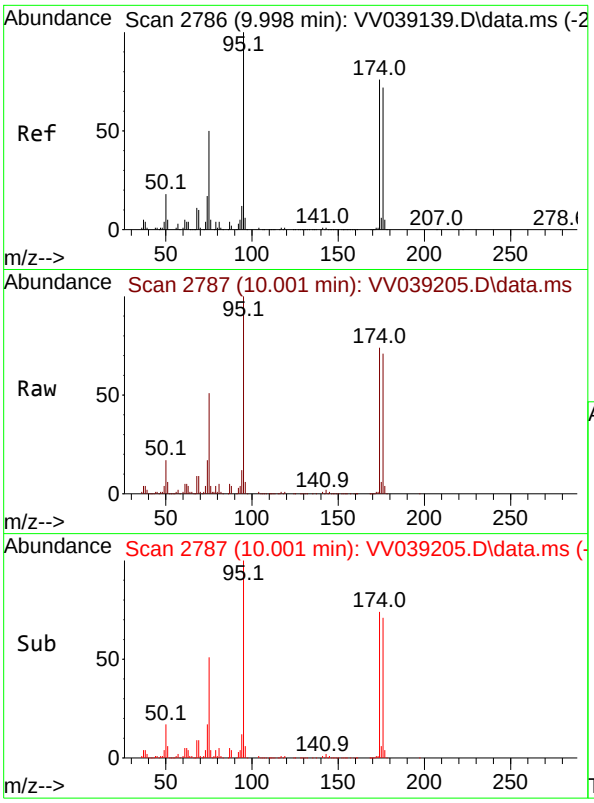




#50
Toluene-d8
Concen: 46.235 ug/l
RT: 7.239 min Scan# 1928
Delta R.T. 0.006 min
Lab File: VV039205.D
Acq: 26 Sep 2025 12:21

Tgt Ion: 98 Resp: 1008875

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.0 | 52.2 | 78.2 |



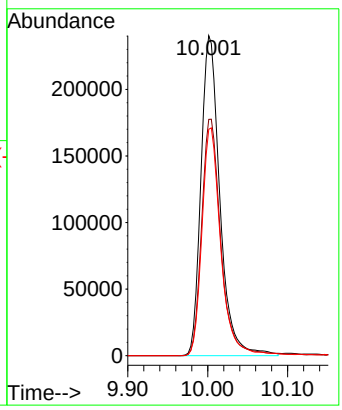


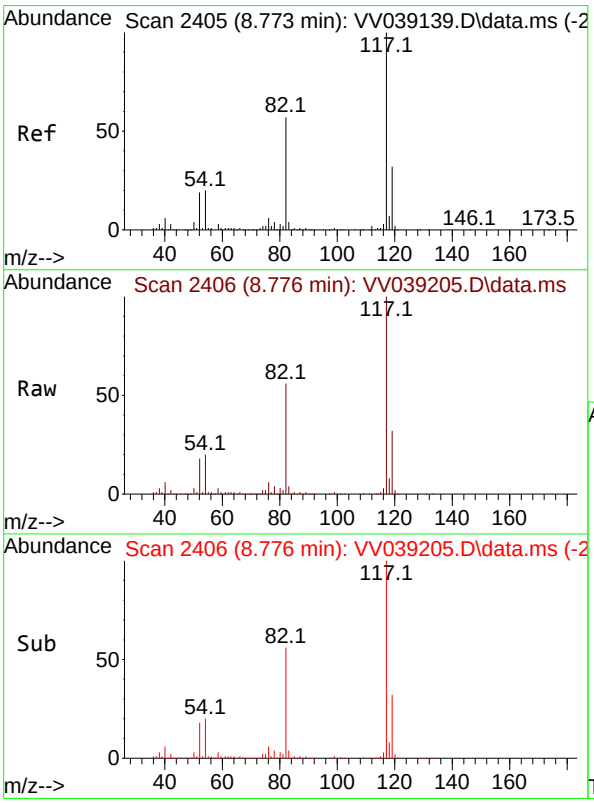

#62
4-Bromofluorobenzene
Concen: 44.107 ug/l
RT: 10.001 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039205.D
Acq: 26 Sep 2025 12:21

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-4-091625

Tgt Ion: 95 Resp: 396215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 75.1 | 0.0 | 150.4 |
| 176 | 71.1 | 0.0 | 144.2 |

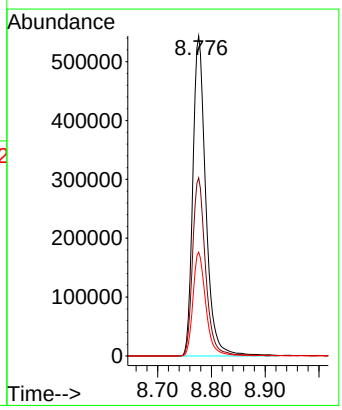


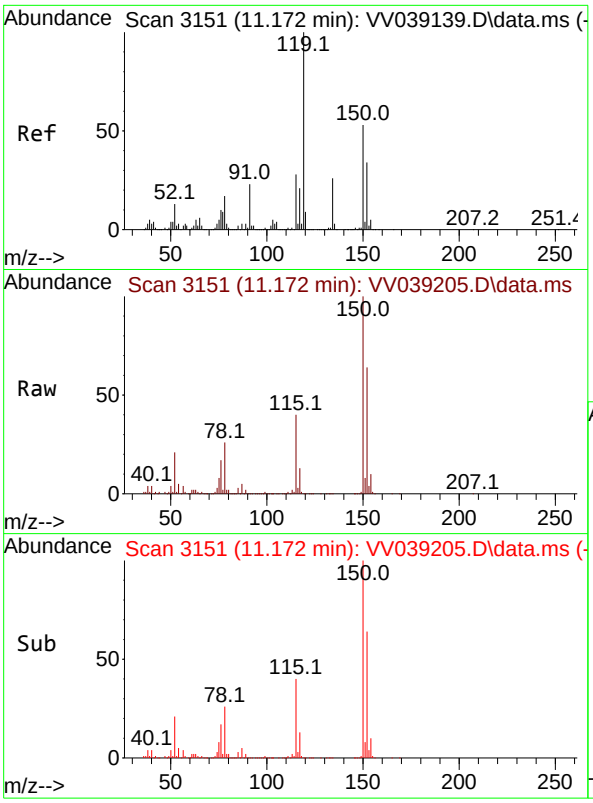




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039205.D
Acq: 26 Sep 2025 12:21

Tgt Ion:117 Resp: 911885

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 55.6 | 45.4 | 68.2 |
| 119 | 32.5 | 25.6 | 38.4 |



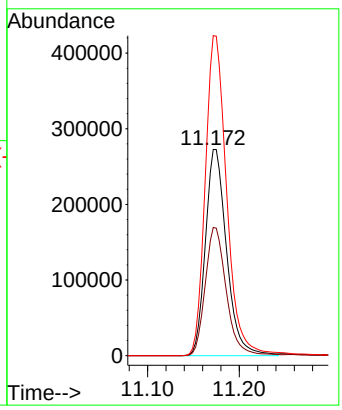



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039205.D
Acq: 26 Sep 2025 12:21

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-4-091625

Tgt Ion:152 Resp: 438479

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 61.8 | 44.8 | 134.4 |
| 150 | 157.9 | 0.0 | 353.8 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039205.D
Acq On : 26 Sep 2025 12:21
Operator : SY/MD
Sample : Q3195-04 100X
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-4-091625

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039205.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.085 | 316 | 325 | 336 | rBV2 | 29231 | 52488 | 1.17% | 0.246% |
| 2 | 3.825 | 848 | 866 | 893 | rBV3 | 214550 | 616125 | 13.77% | 2.886% |
| 3 | 4.503 | 1057 | 1077 | 1095 | rBV | 471939 | 1226158 | 27.41% | 5.743% |
| 4 | 4.600 | 1096 | 1107 | 1153 | rVB | 603532 | 1663323 | 37.18% | 7.791% |
| 5 | 4.944 | 1202 | 1214 | 1242 | rBV2 | 466060 | 1152642 | 25.76% | 5.399% |
| 6 | 5.532 | 1384 | 1397 | 1446 | rBV | 924856 | 2194284 | 49.04% | 10.278% |
| 7 | 5.828 | 1475 | 1489 | 1538 | rBV | 2066979 | 4474095 | 100.00% | 20.957% |
| 8 | 7.236 | 1916 | 1927 | 1959 | rBV | 1376810 | 2632948 | 58.85% | 12.333% |
| 9 | 8.776 | 2395 | 2406 | 2437 | rBV | 1609253 | 2733831 | 61.10% | 12.805% |
| 10 | 10.001 | 2775 | 2787 | 2814 | rBV | 1144683 | 1907952 | 42.64% | 8.937% |
| 11 | 11.172 | 3141 | 3151 | 3191 | rBV | 1638589 | 2695355 | 60.24% | 12.625% |

Sum of corrected areas: 21349201

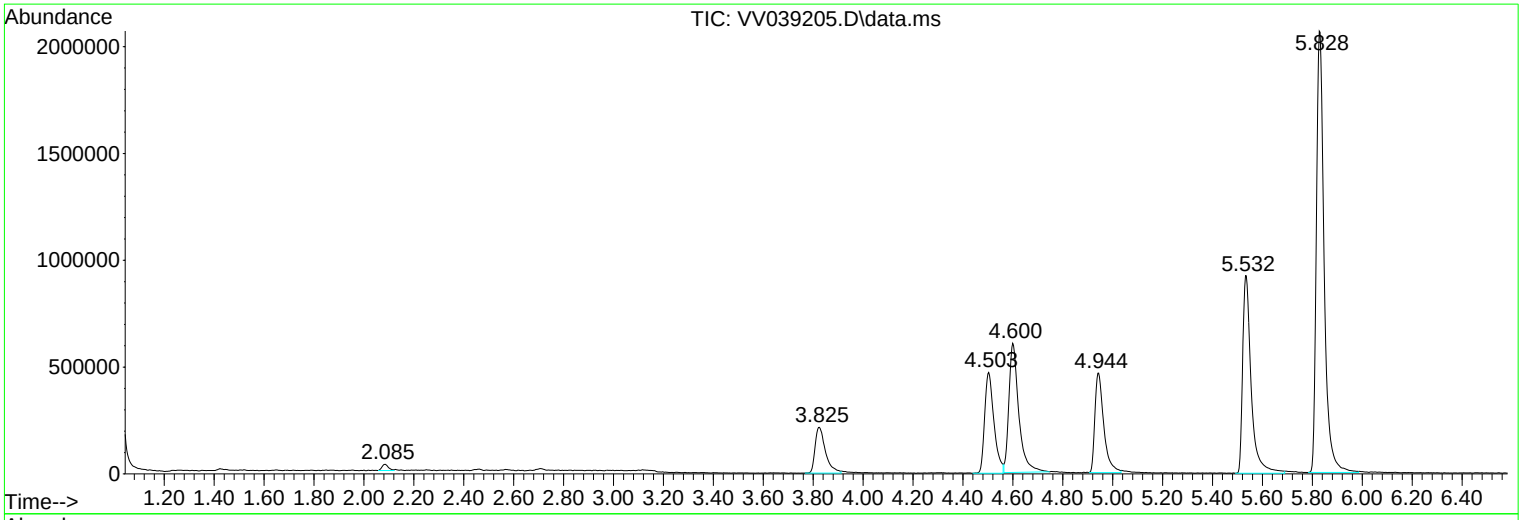
Sample Results: **VV039205.D**

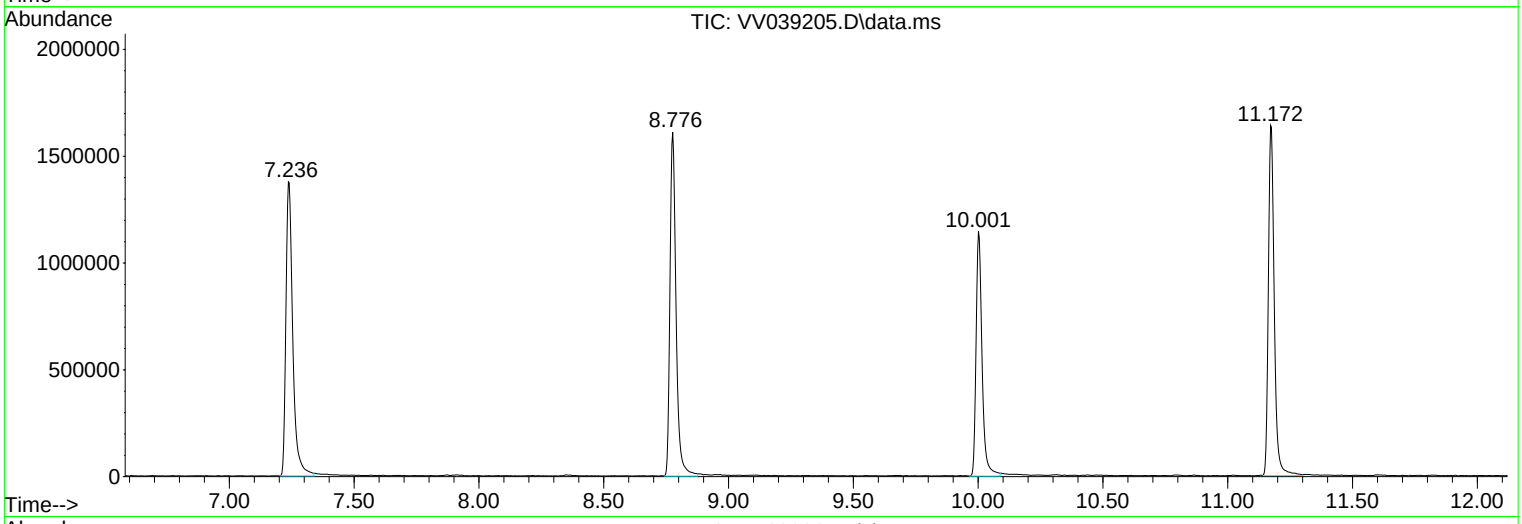
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039205.D
Acq On : 26 Sep 2025 12:21
Operator : SY/MD
Sample : Q3195-04 100X
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

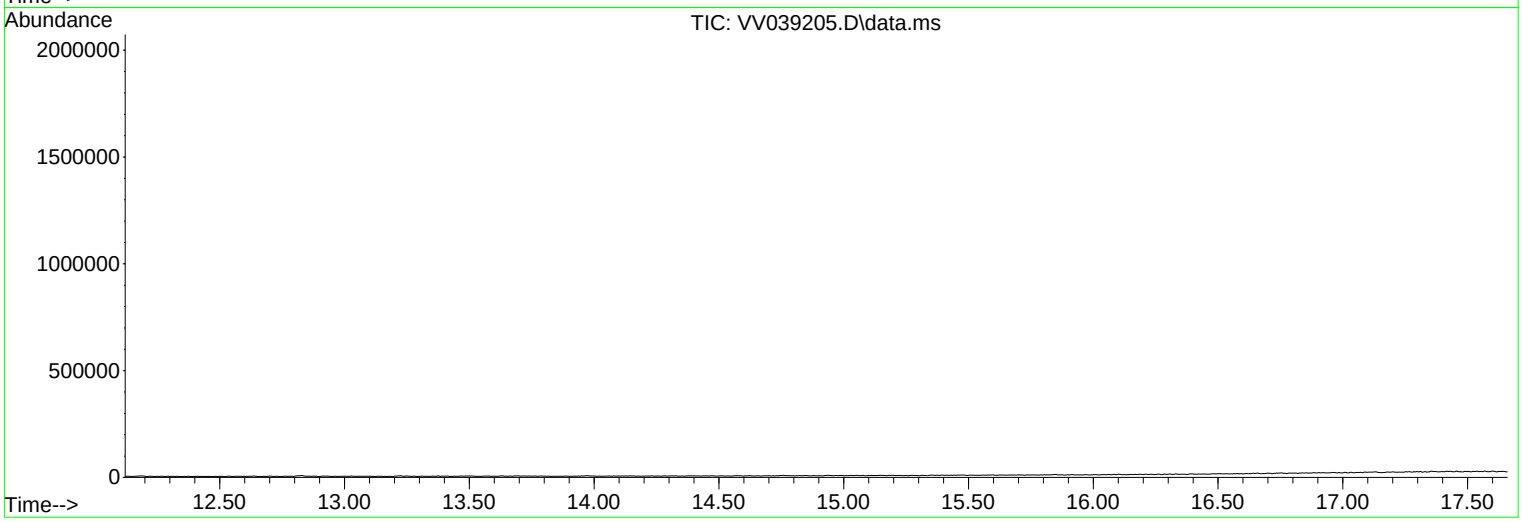
**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-4-091625

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039205.D
Acq On : 26 Sep 2025 12:21
Operator : SY/MD
Sample : Q3195-04 100X
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-4-091625

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039205.D
Acq On : 26 Sep 2025 12:21
Operator : SY/MD
Sample : Q3195-04 100X
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-4-091625

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/16/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-6-091625 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-05 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039208.D | 1 | 09/26/25 13:28 | VV092625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.33 | U | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.43 | J | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 1.50 | U | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 0.27 | U | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.62 | J | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 1.50 | U | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 12.0 | | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.25 | U | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.16 | U | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 6.00 | | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | U | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.14 | U | 0.14 | 1.00 | ug/L |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/16/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-6-091625 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-05 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039208.D | 1 | 09/26/25 13:28 | VV092625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.15 | U | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | U | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | U | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.53 | U | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 60.5 | | 74 - 125 | 121% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 56.6 | | 75 - 124 | 113% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 46.3 | | 86 - 113 | 93% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 43.5 | | 77 - 121 | 87% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 375000 | 4.6 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 660000 | 5.535 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 676000 | 8.776 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 313000 | 11.175 | | | |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/16/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-6-091625 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-05 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039208.D | 1 | 09/26/25 13:28 | VV092625 |

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039208.D
Acq On : 26 Sep 2025 13:28
Operator : SY/MD
Sample : Q3195-05
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-6-091625

Quant Time: Sep 27 02:55:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

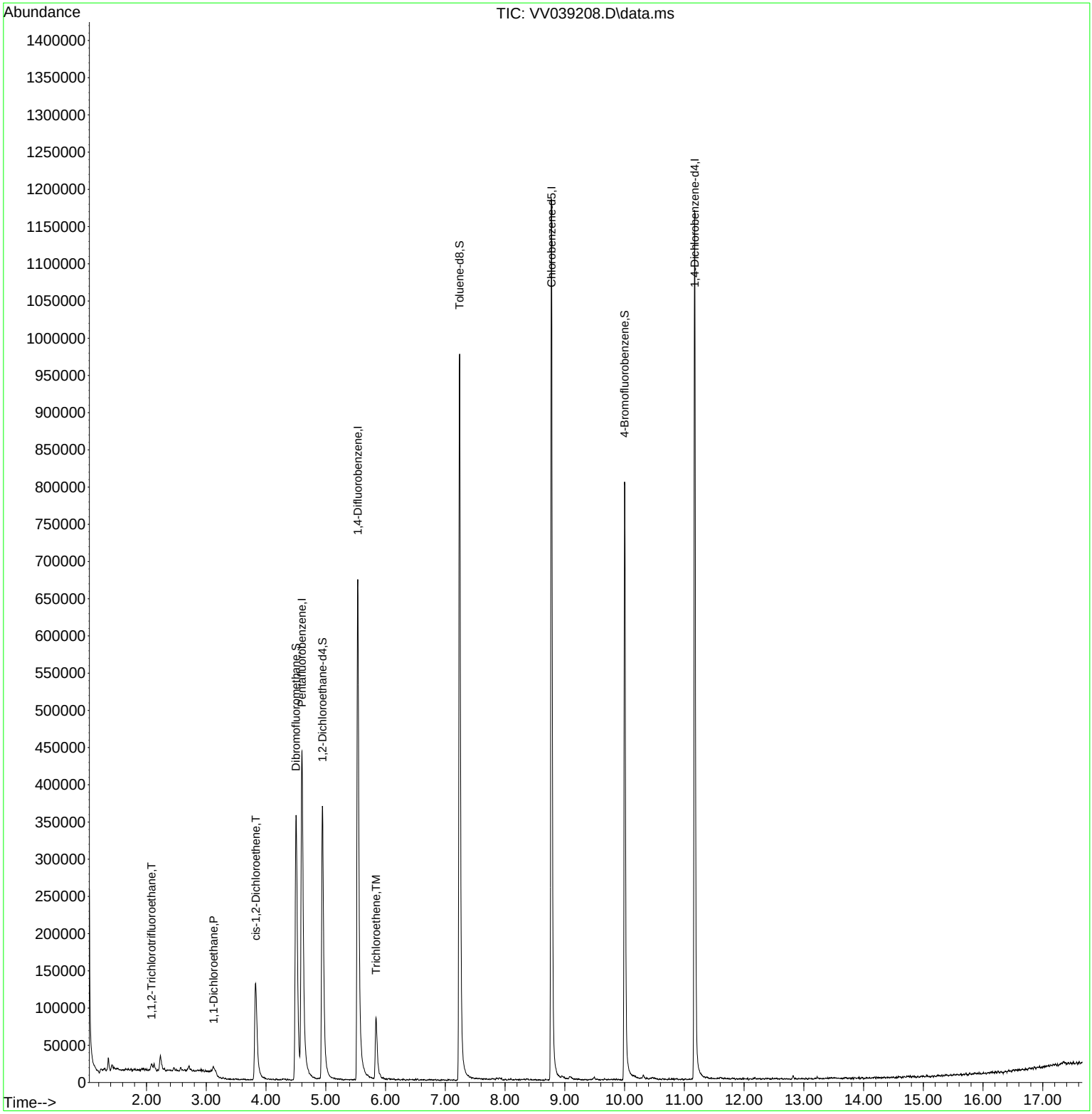
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.600 | 168 | 374514 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.535 | 114 | 660135 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.776 | 117 | 675751 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.175 | 152 | 313063 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.944 | 65 | 328194 | 60.549 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 121.100%# | | | |
| 35) Dibromofluoromethane | 4.503 | 113 | 300201 | 56.567 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 113.140% | | | |
| 50) Toluene-d8 | 7.239 | 98 | 722235 | 46.337 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 92.680% | | | |
| 62) 4-Bromofluorobenzene | 10.001 | 95 | 278949 | 43.473 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 86.940% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) 1,1,2-Trichlorotrifluo... | 2.082 | 101 | 2535 | 0.432 | ug/l | 95 |
| 24) 1,1-Dichloroethane | 3.124 | 63 | 7253 | 0.615 | ug/l # | 85 |
| 27) cis-1,2-Dichloroethene | 3.828 | 96 | 79686 | 12.019 | ug/l | 88 |
| 44) Trichloroethene | 5.844 | 130 | 36430 | 6.042 | ug/l | 99 |

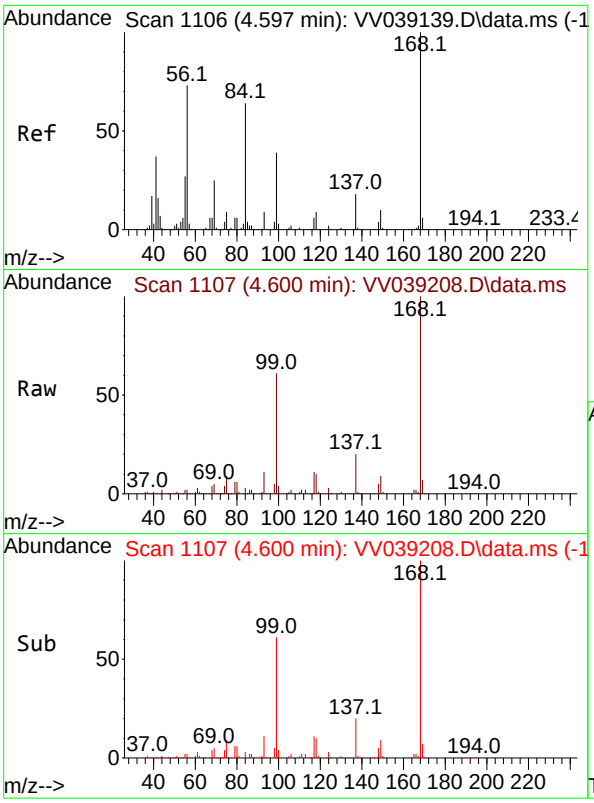
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039208.D
Acq On : 26 Sep 2025 13:28
Operator : SY/MD
Sample : Q3195-05
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-6-091625

Quant Time: Sep 27 02:55:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



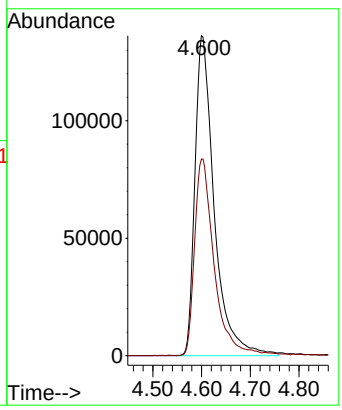


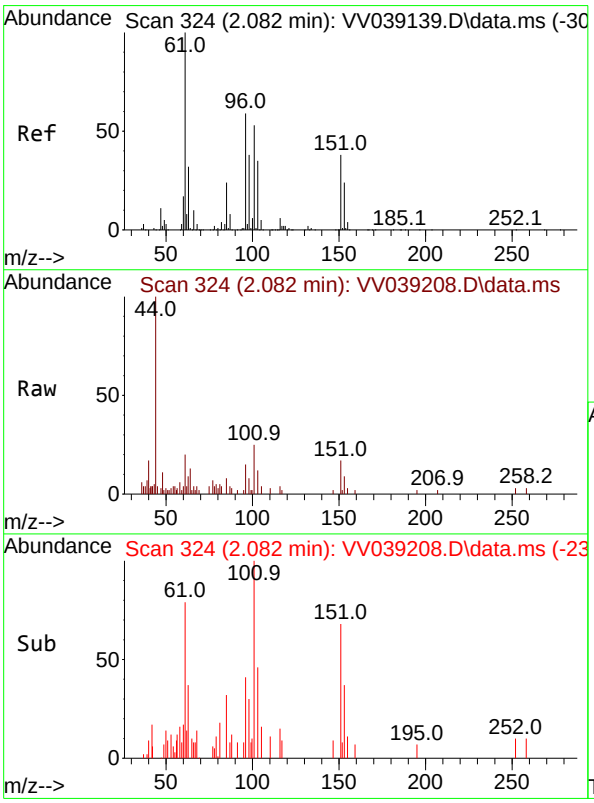

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039208.D
Acq: 26 Sep 2025 13:28

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-6-091625

Tgt Ion:168 Resp: 374514

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 61.3 | 49.6 | 74.4 |

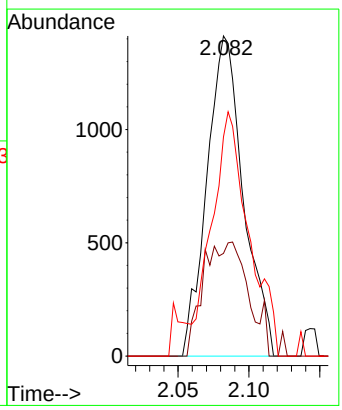


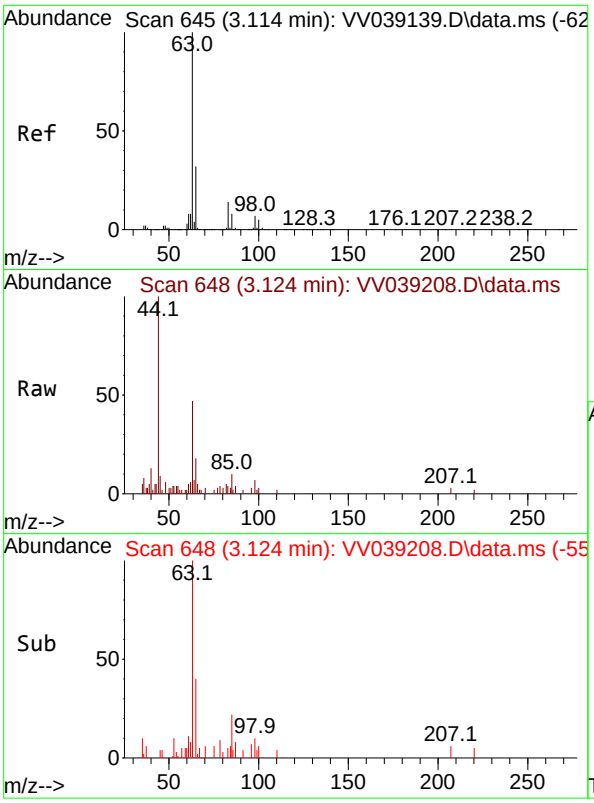




#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.432 ug/l
RT: 2.082 min Scan# 324
Delta R.T. -0.000 min
Lab File: VV039208.D
Acq: 26 Sep 2025 13:28

Tgt Ion:101 Resp: 2535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 44.0 | 36.2 | 54.2 |
| 151 | 76.7 | 56.3 | 84.5 |



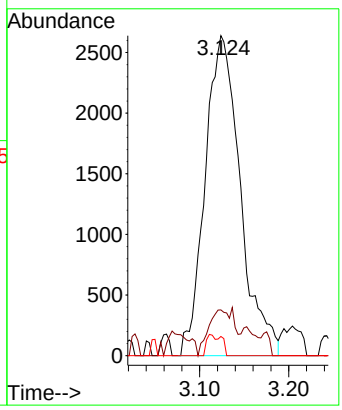


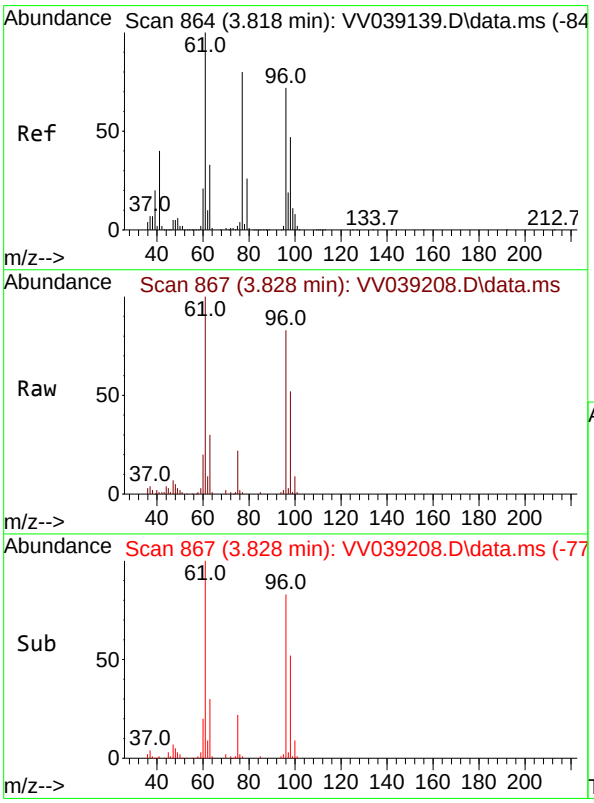

#24
1,1-Dichloroethane
Concen: 0.615 ug/l
RT: 3.124 min Scan# 64
Delta R.T. 0.010 min
Lab File: VV039208.D
Acq: 26 Sep 2025 13:28

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-6-091625

Tgt Ion: 63 Resp: 7253

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 14.3 | 3.4 | 10.2# |
| 100 | 6.0 | 2.2 | 6.6 |

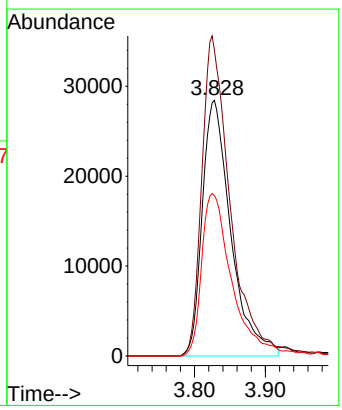


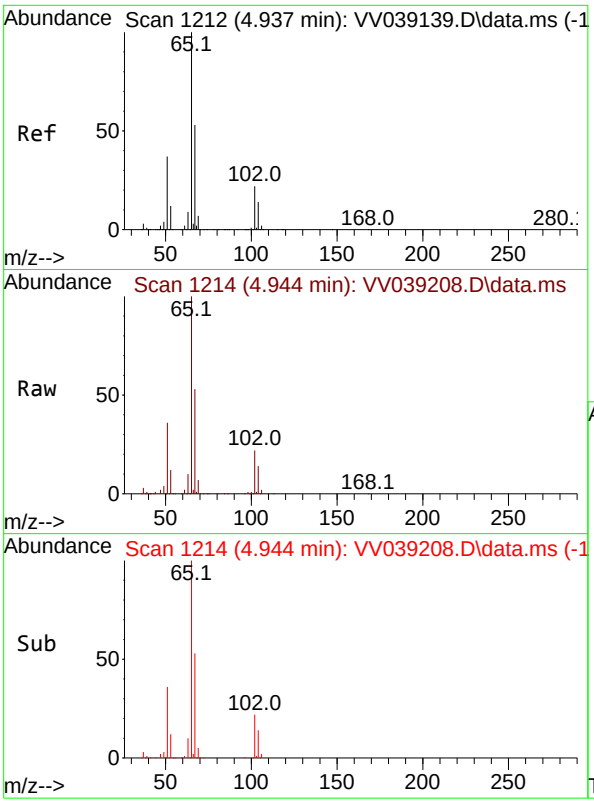




#27
cis-1,2-Dichloroethene
Concen: 12.019 ug/l
RT: 3.828 min Scan# 867
Delta R.T. 0.010 min
Lab File: VV039208.D
Acq: 26 Sep 2025 13:28

Tgt Ion: 96 Resp: 79686

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 124.9 | 0.0 | 286.4 |
| 98 | 67.1 | 0.0 | 126.6 |



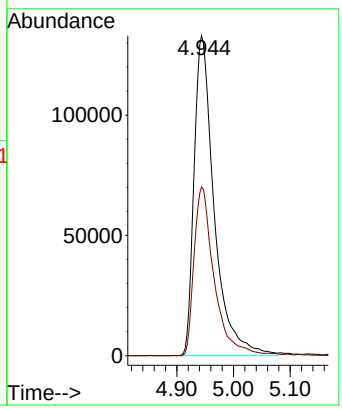


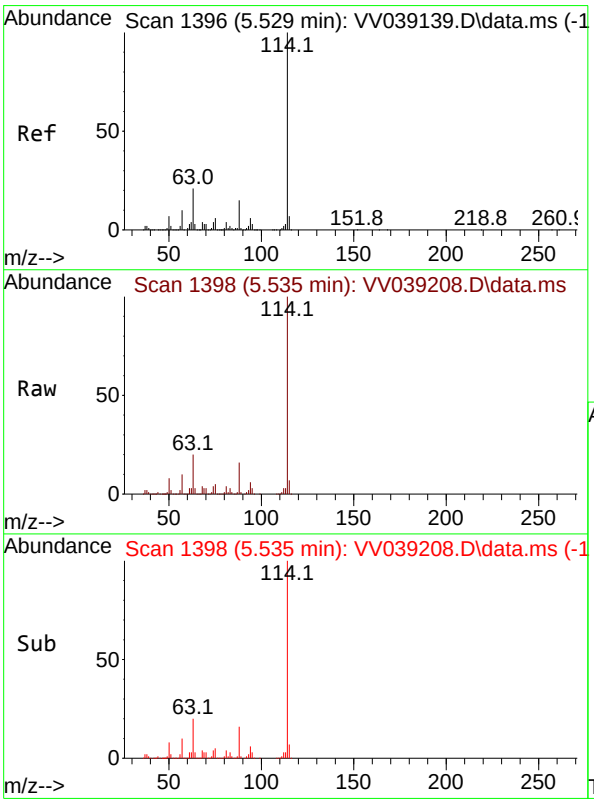

#33
1,2-Dichloroethane-d4
Concen: 60.549 ug/l
RT: 4.944 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039208.D
Acq: 26 Sep 2025 13:28

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-6-091625

Tgt Ion: 65 Resp: 328194

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.5 | 0.0 | 107.0 |

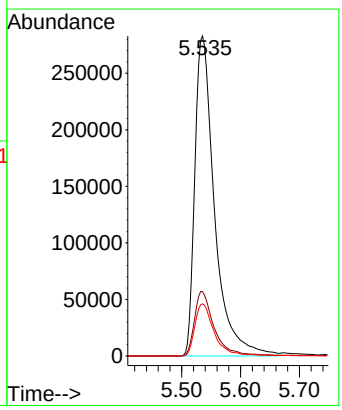


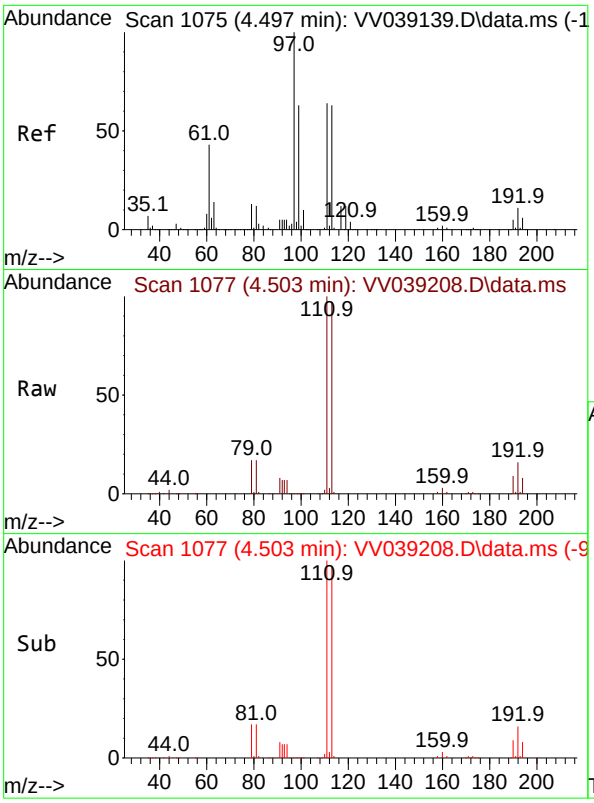




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VV039208.D
Acq: 26 Sep 2025 13:28

Tgt Ion:114 Resp: 660135

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.1 | 0.0 | 42.6 |
| 88 | 16.3 | 0.0 | 30.8 |



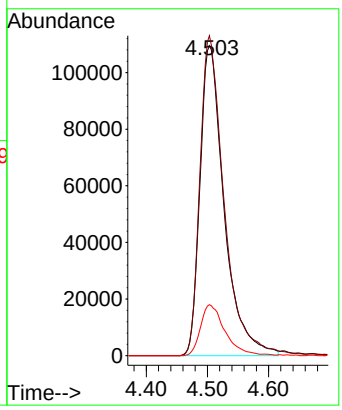


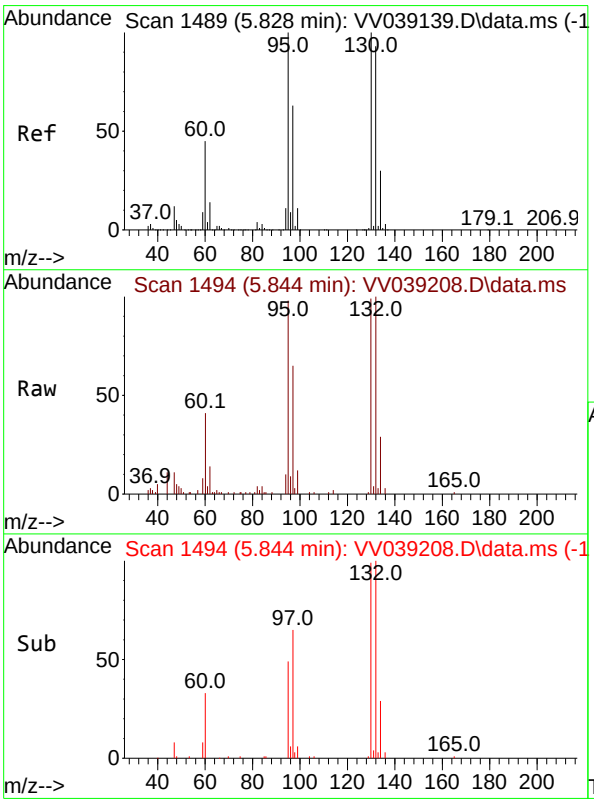

#35
Dibromofluoromethane
Concen: 56.567 ug/l
RT: 4.503 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039208.D
Acq: 26 Sep 2025 13:28

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-6-091625

Tgt Ion:113 Resp: 300201

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.9 | 82.4 | 123.6 |
| 192 | 16.8 | 13.8 | 20.8 |

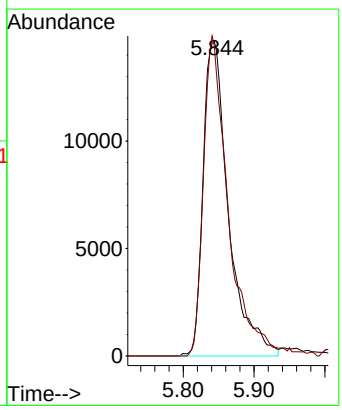


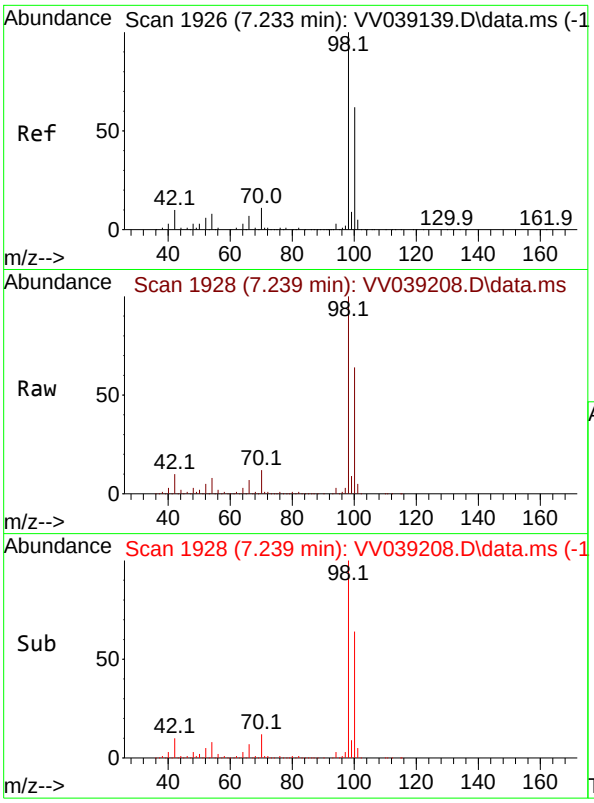




#44
Trichloroethene
Concen: 6.042 ug/l
RT: 5.844 min Scan# 1494
Delta R.T. 0.016 min
Lab File: VV039208.D
Acq: 26 Sep 2025 13:28

Tgt Ion:130 Resp: 36430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 98.5 | 0.0 | 199.2 |



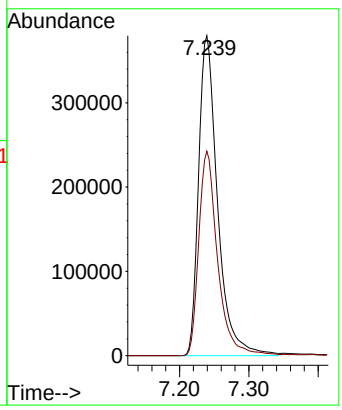


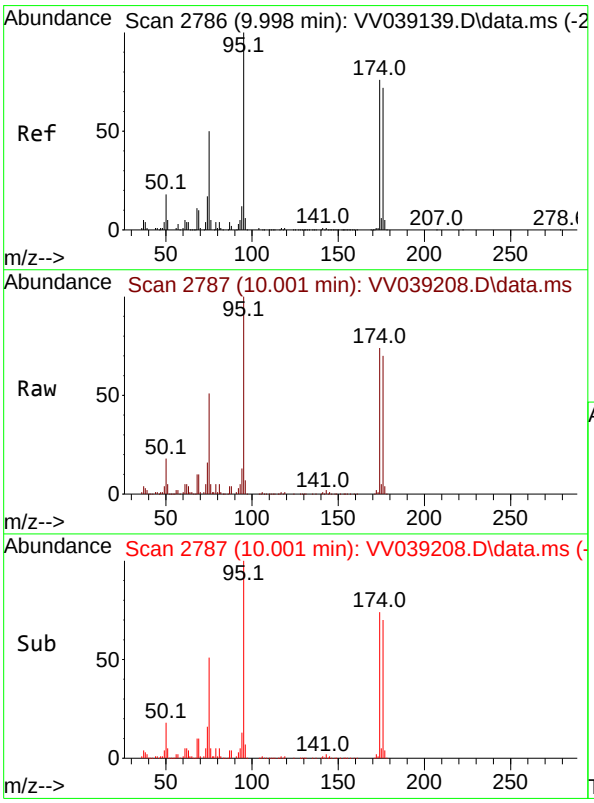

#50
Toluene-d8
Concen: 46.337 ug/l
RT: 7.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039208.D
Acq: 26 Sep 2025 13:28

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-6-091625

Tgt Ion: 98 Resp: 722235

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.8 | 52.2 | 78.2 |

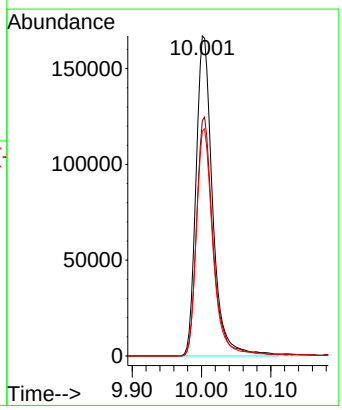


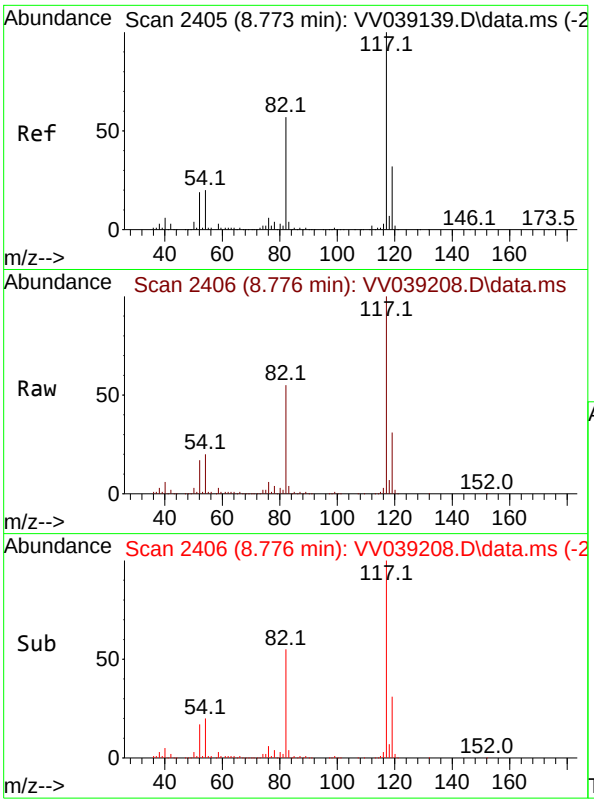




#62
4-Bromofluorobenzene
Concen: 43.473 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039208.D
Acq: 26 Sep 2025 13:28

Tgt Ion: 95 Resp: 278949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 74.6 | 0.0 | 150.4 |
| 176 | 71.2 | 0.0 | 144.2 |



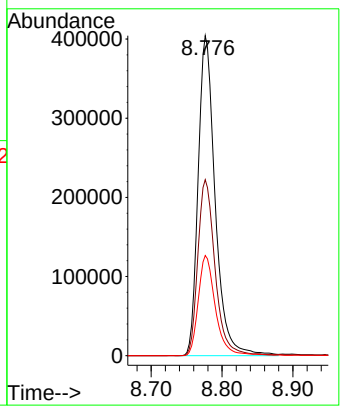


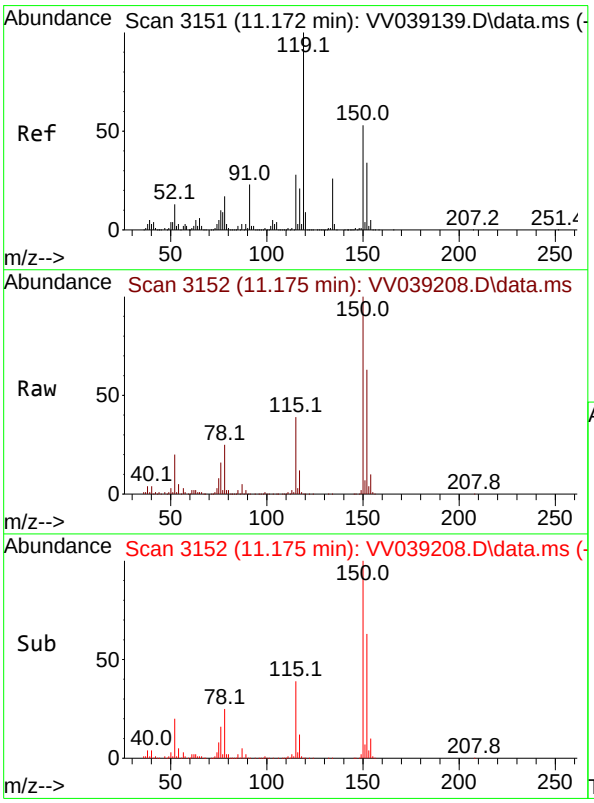

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039208.D
Acq: 26 Sep 2025 13:28

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-6-091625

Tgt Ion:117 Resp: 675751

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 55.0 | 45.4 | 68.2 |
| 119 | 31.3 | 25.6 | 38.4 |

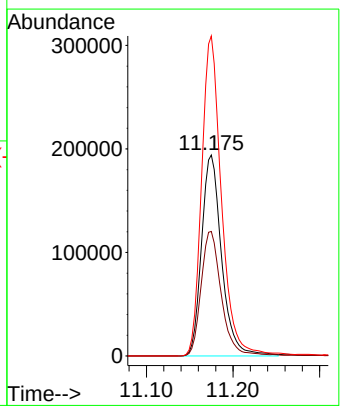



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039208.D
Acq: 26 Sep 2025 13:28

Tgt Ion:152 Resp: 313063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 62.4 | 44.8 | 134.4 |
| 150 | 157.7 | 0.0 | 353.8 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039208.D
Acq On : 26 Sep 2025 13:28
Operator : SY/MD
Sample : Q3195-05
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-6-091625

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039208.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.362 | 94 | 100 | 110 | rVB | 17227 | 24031 | 1.19% | 0.192% |
| 2 | 2.233 | 364 | 371 | 384 | rVB | 18495 | 35070 | 1.73% | 0.280% |
| 3 | 3.825 | 850 | 866 | 901 | rBV2 | 129588 | 390364 | 19.27% | 3.119% |
| 4 | 4.503 | 1062 | 1077 | 1096 | rBV2 | 355680 | 942290 | 46.50% | 7.528% |
| 5 | 4.603 | 1096 | 1108 | 1147 | rVB | 436136 | 1205471 | 59.49% | 9.630% |
| 6 | 4.944 | 1202 | 1214 | 1260 | rBV | 365761 | 915418 | 45.18% | 7.313% |
| 7 | 5.535 | 1386 | 1398 | 1444 | rBV | 672502 | 1597318 | 78.83% | 12.761% |
| 8 | 5.841 | 1482 | 1493 | 1522 | rBV | 82034 | 199566 | 9.85% | 1.594% |
| 9 | 7.239 | 1915 | 1928 | 1971 | rBV | 975731 | 1909743 | 94.25% | 15.257% |
| 10 | 8.776 | 2393 | 2406 | 2437 | rBV | 1184166 | 2026230 | 100.00% | 16.187% |
| 11 | 10.001 | 2776 | 2787 | 2817 | rBV | 803585 | 1360624 | 67.15% | 10.870% |
| 12 | 11.175 | 3141 | 3152 | 3182 | rBV | 1166897 | 1911435 | 94.33% | 15.270% |

Sum of corrected areas: 12517560

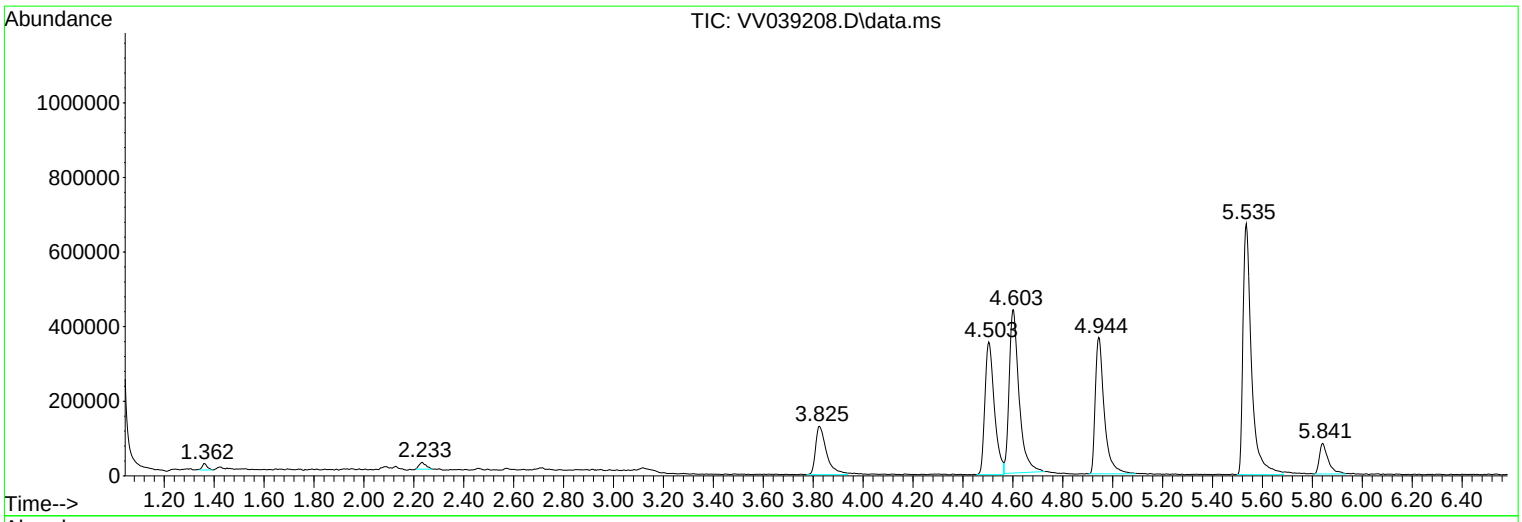
Sample Results: **VV039208.D**

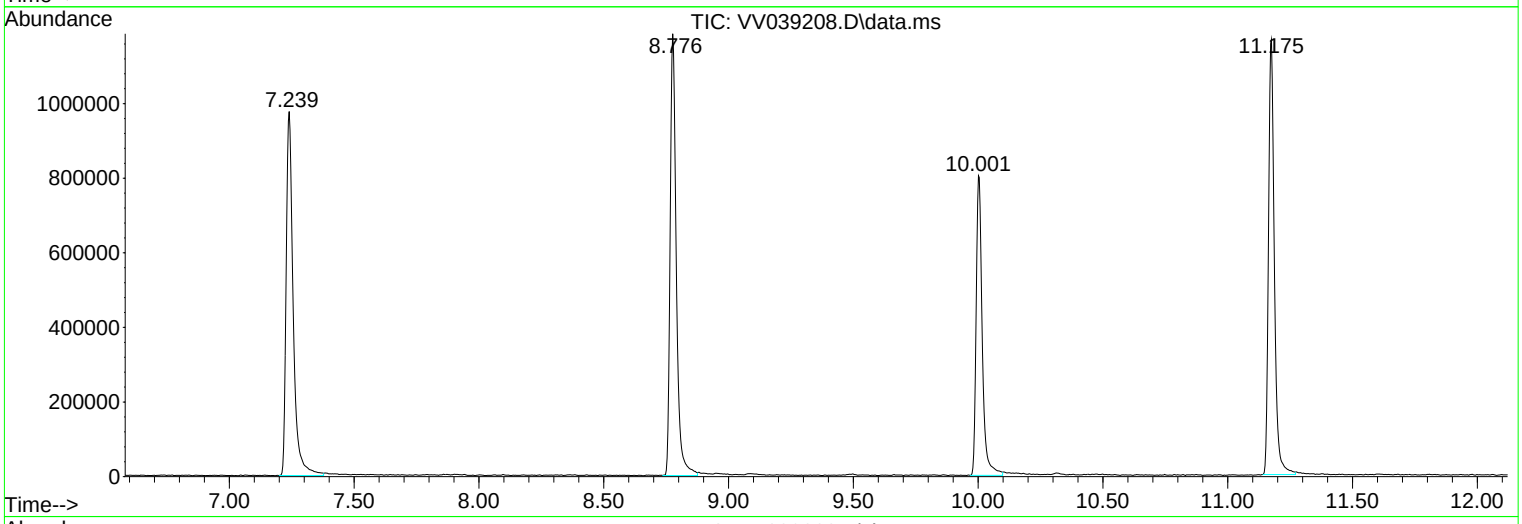
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039208.D
Acq On : 26 Sep 2025 13:28
Operator : SY/MD
Sample : Q3195-05
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

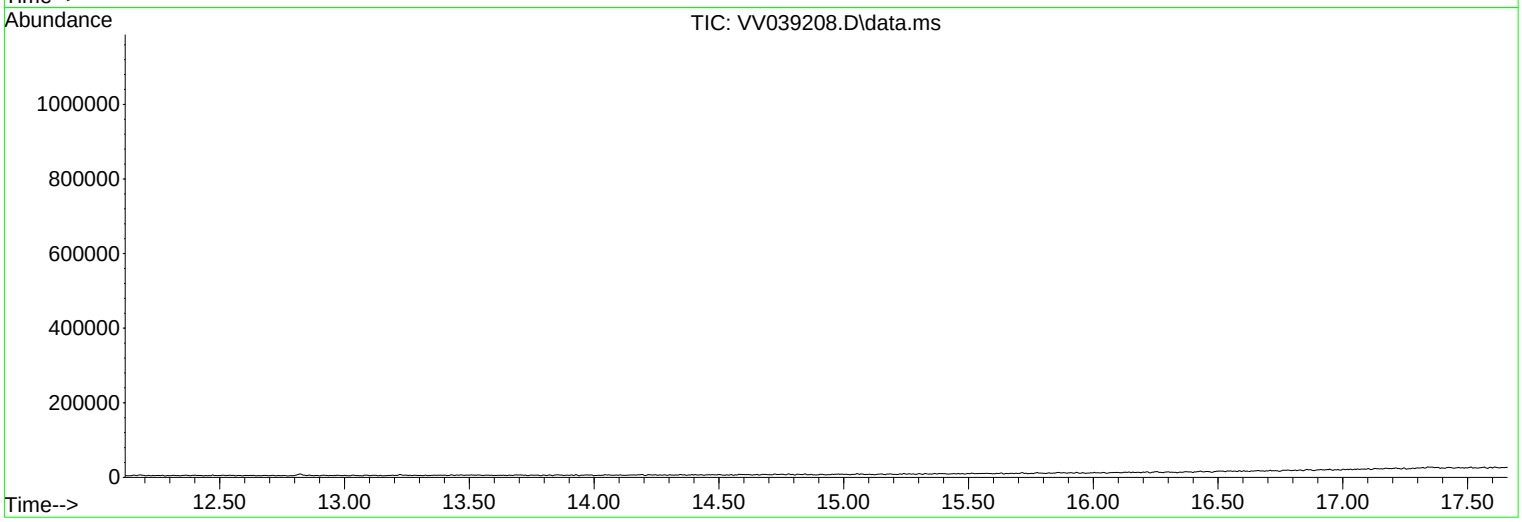
**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-6-091625

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039208.D
Acq On : 26 Sep 2025 13:28
Operator : SY/MD
Sample : Q3195-05
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-6-091625

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039208.D
Acq On : 26 Sep 2025 13:28
Operator : SY/MD
Sample : Q3195-05
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-6-091625

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/22/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-19D-092225 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-06 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039209.D | 1 | 09/26/25 13:51 | VV092625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 6.00 | | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.33 | U | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 7.70 | | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 1.50 | U | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 0.27 | U | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 1.50 | U | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.50 | J | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.65 | J | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.16 | U | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 3.20 | | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | U | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.14 | U | 0.14 | 1.00 | ug/L |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/22/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-19D-092225 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-06 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039209.D | 1 | 09/26/25 13:51 | VV092625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.15 | U | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.30 | J | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | U | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | U | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.53 | U | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 61.9 | | 74 - 125 | 124% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 57.6 | | 75 - 124 | 115% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 47.3 | | 86 - 113 | 95% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 43.8 | | 77 - 121 | 88% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 345000 | 4.603 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 615000 | 5.535 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 628000 | 8.776 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 292000 | 11.175 | | | |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/22/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-19D-092225 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-06 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039209.D | 1 | 09/26/25 13:51 | VV092625 |

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039209.D
Acq On : 26 Sep 2025 13:51
Operator : SY/MD
Sample : Q3195-06
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 27 02:55:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-19D-092225

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 09/29/2025
Supervised By :Semsettin Yesilyurt 09/29/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.603 | 168 | 344932 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.535 | 114 | 614959 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.776 | 117 | 627934 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.175 | 152 | 291769 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.944 | 65 | 308774 | 61.851 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 123.700%# | | | |
| 35) Dibromofluoromethane | 4.503 | 113 | 284583 | 57.564 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 115.120% | | | |
| 50) Toluene-d8 | 7.240 | 98 | 686292 | 47.266 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 94.540% | | | |
| 62) 4-Bromofluorobenzene | 10.002 | 95 | 261604 | 43.765 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 87.540% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.121 | 85 | 32529 | 5.957 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 2.082 | 101 | 41397 | 7.658 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 3.847 | 96 | 3033m | 0.497 | ug/l | |
| 30) Chloroform | 4.291 | 83 | 7336 | 0.646 | ug/l | 98 |
| 44) Trichloroethene | 5.847 | 130 | 18064 | 3.216 | ug/l | 93 |
| 64) Tetrachloroethene | 7.908 | 164 | 1575 | 0.299 | ug/l # | 74 |

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

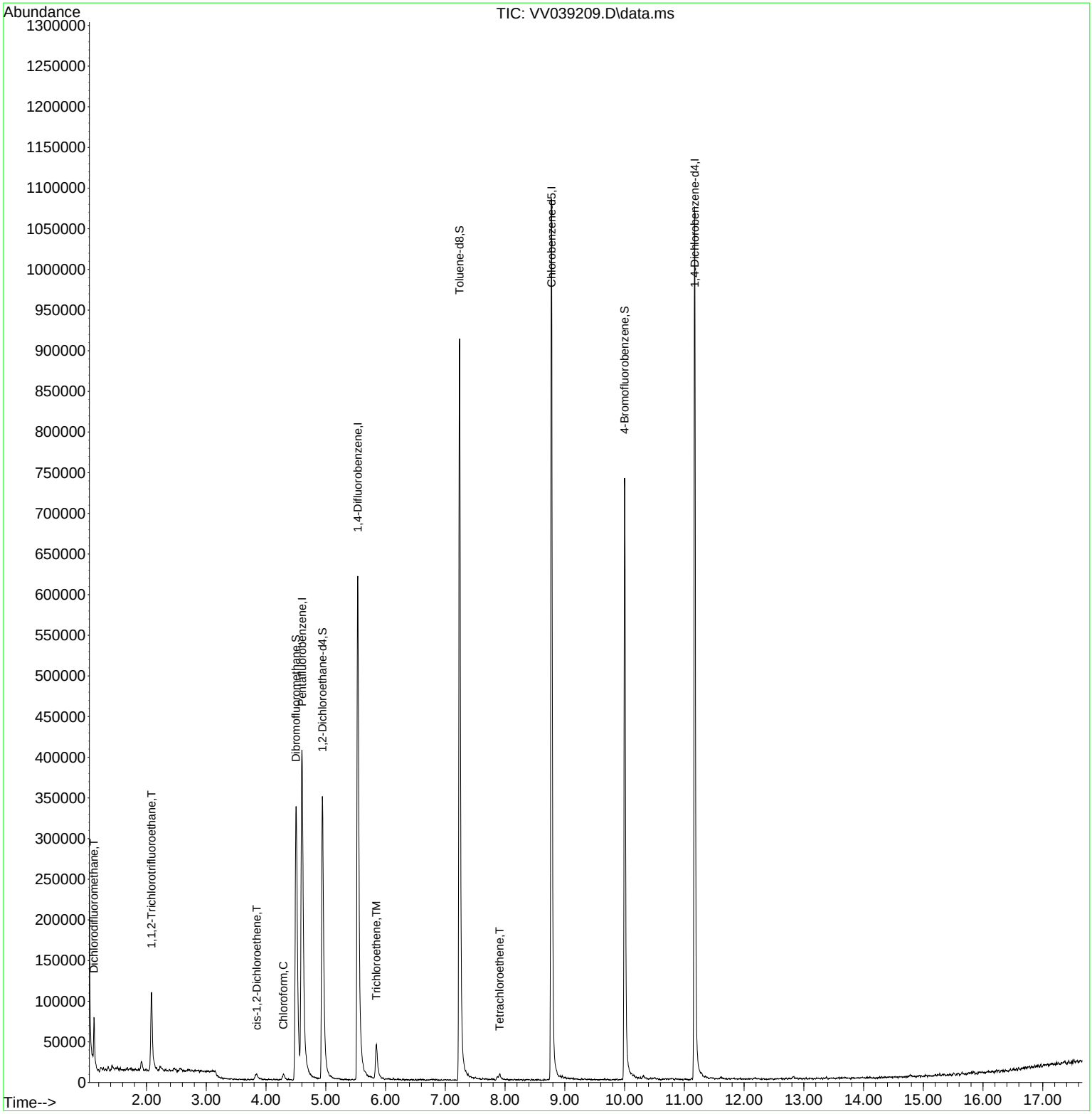
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039209.D
Acq On : 26 Sep 2025 13:51
Operator : SY/MD
Sample : Q3195-06
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 13 Sample Multiplier: 1

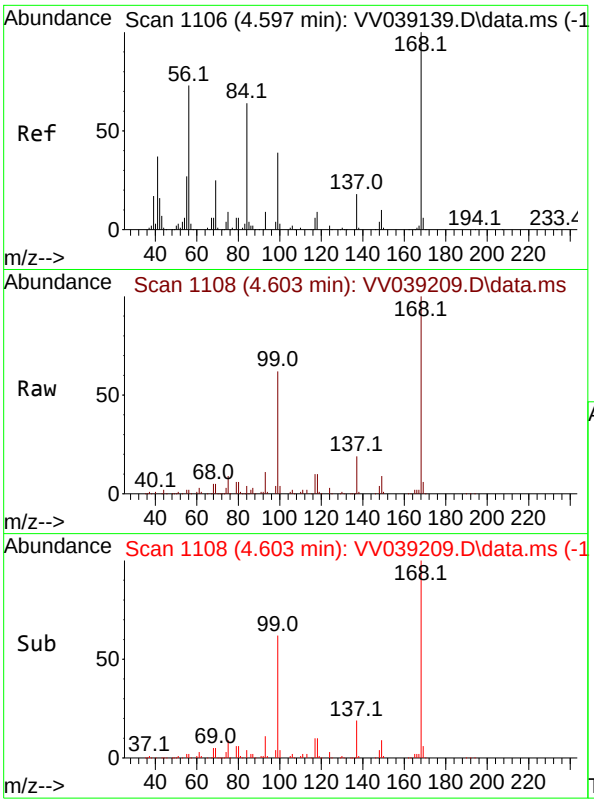
Quant Time: Sep 27 02:55:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-19D-092225

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 09/29/2025
Supervised By :Semsettin Yesilyurt 09/29/2025

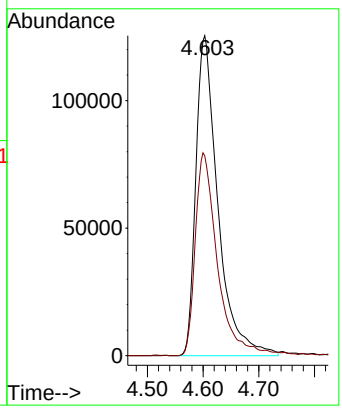





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039209.D
Acq: 26 Sep 2025 13:51

Tgt Ion:168 Resp: 34493

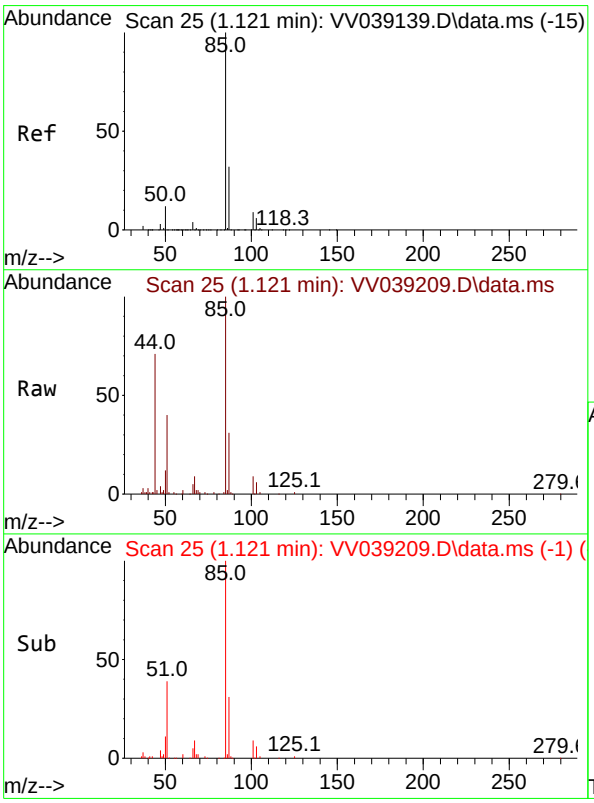
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 62.4 | 49.6 | 74.4 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-19D-092225

**Manual Integrations**
**APPROVED**

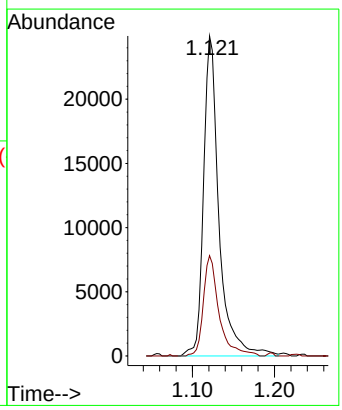
Reviewed By :Mahesh Dadoda 09/29/2025
Supervised By :Semsettin Yesilyurt 09/29/2025

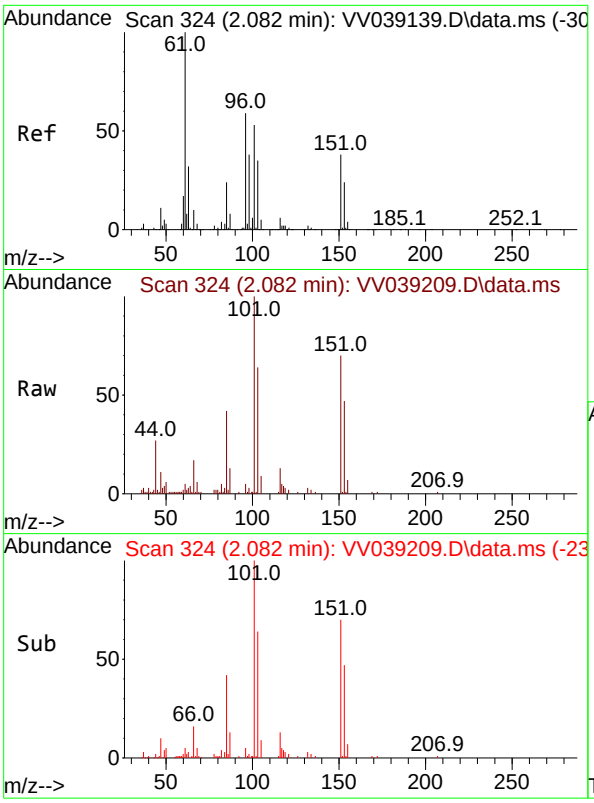



#2
Dichlorodifluoromethane
Concen: 5.957 ug/l
RT: 1.121 min Scan# 25
Delta R.T. 0.000 min
Lab File: VV039209.D
Acq: 26 Sep 2025 13:51

Tgt Ion: 85 Resp: 32529

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.3 | 16.0 | 47.9 |

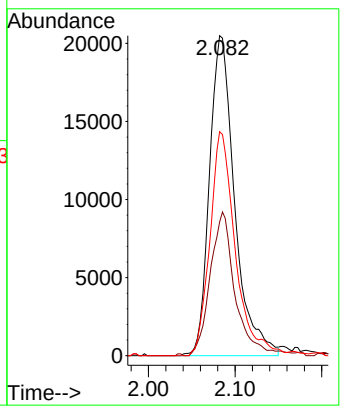





#9
1,1,2-Trichlorotrifluoroethane
Concen: 7.658 ug/l
RT: 2.082 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039209.D
Acq: 26 Sep 2025 13:51

Tgt Ion:101 Resp: 4139

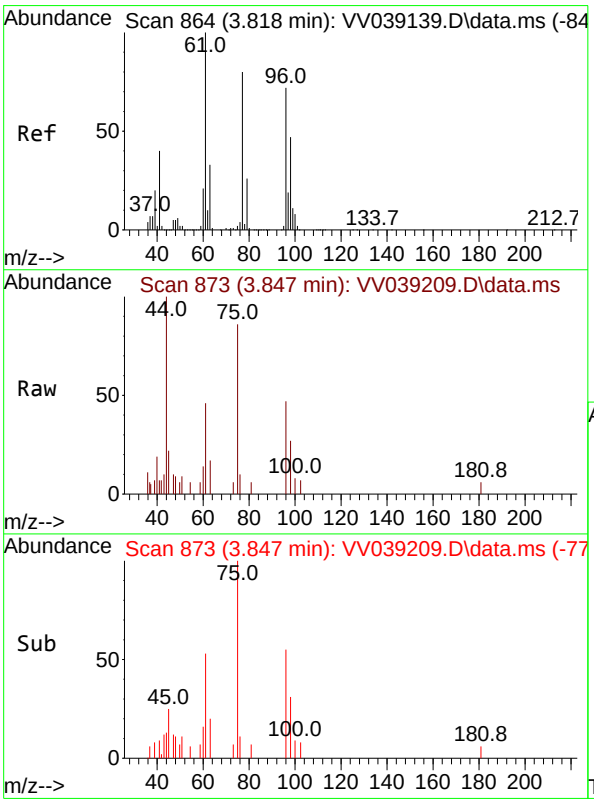
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 44.5 | 36.2 | 54.2 |
| 151 | 70.4 | 56.3 | 84.5 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-19D-092225

**Manual Integrations**
**APPROVED**

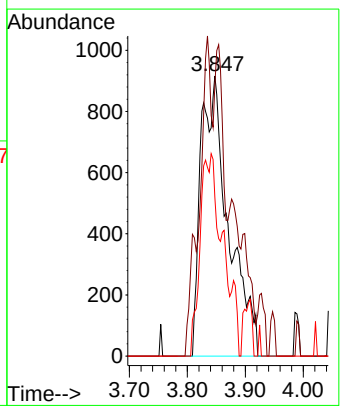
Reviewed By :Mahesh Dadoda 09/29/2025
Supervised By :Semsettin Yesilyurt 09/29/2025

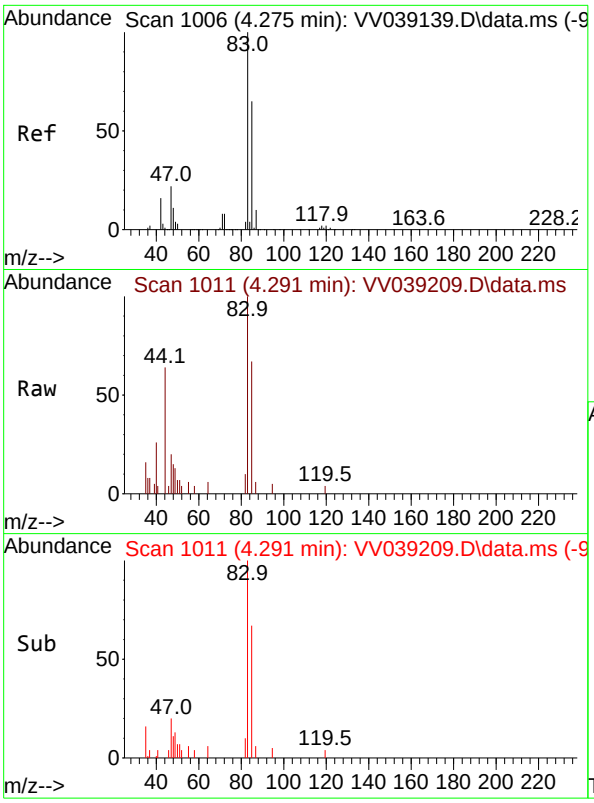



#27
cis-1,2-Dichloroethene
Concen: 0.497 ug/l m
RT: 3.847 min Scan# 873
Delta R.T. 0.029 min
Lab File: VV039209.D
Acq: 26 Sep 2025 13:51

Tgt Ion: 96 Resp: 3033

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 31.0 | 0.0 | 286.4 |
| 98 | 25.5 | 0.0 | 126.6 |

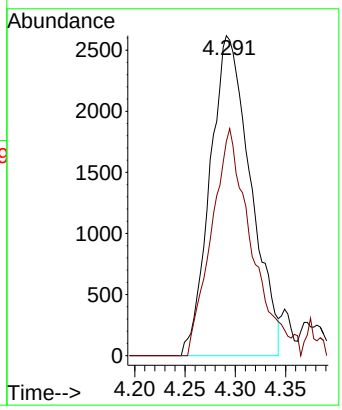





#30
Chloroform
Concen: 0.646 ug/l
RT: 4.291 min Scan# 1
Delta R.T. 0.016 min
Lab File: VV039209.D
Acq: 26 Sep 2025 13:51

Tgt Ion: 83 Resp: 733

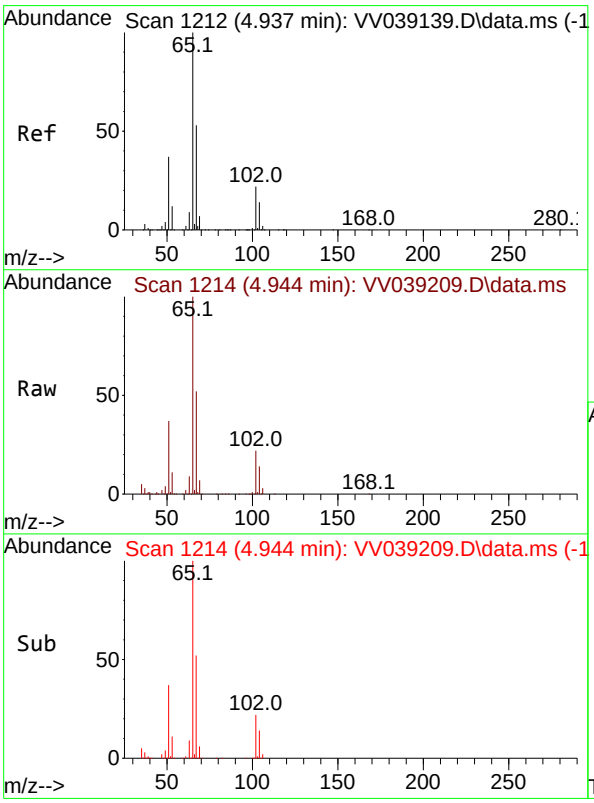
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 66.9 | 52.1 | 78.1 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-19D-092225

**Manual Integrations**
**APPROVED**

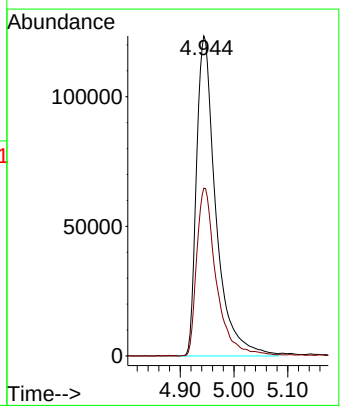
Reviewed By :Mahesh Dadoda 09/29/2025
Supervised By :Semsettin Yesilyurt 09/29/2025

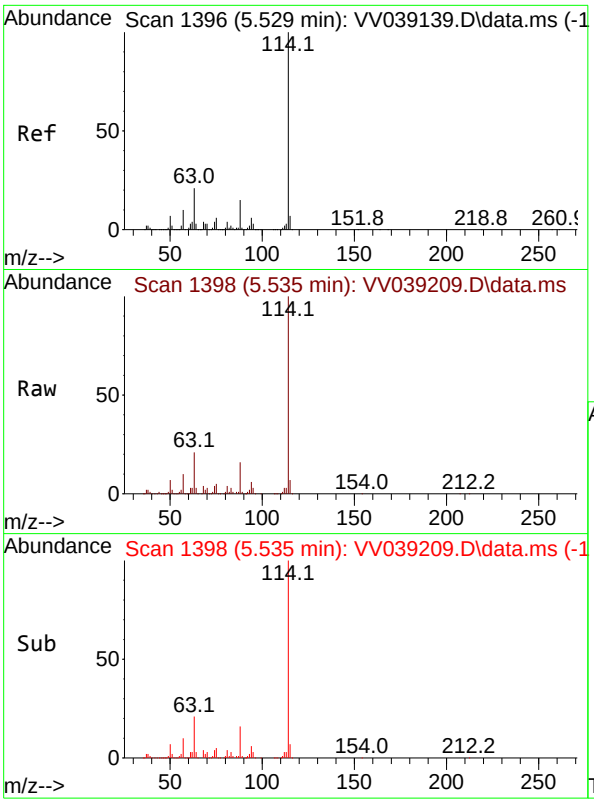



#33
1,2-Dichloroethane-d4
Concen: 61.851 ug/l
RT: 4.944 min Scan# 1214
Delta R.T. 0.006 min
Lab File: VV039209.D
Acq: 26 Sep 2025 13:51

Tgt Ion: 65 Resp: 308774

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.5 | 0.0 | 107.0 |






#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039209.D
Acq: 26 Sep 2025 13:51

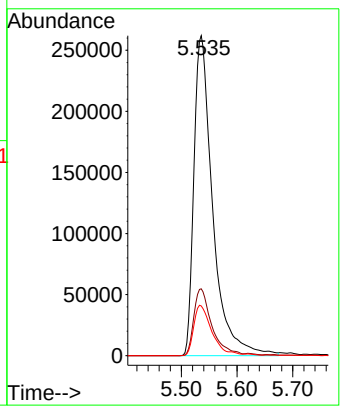
Tgt Ion:114 Resp: 61495

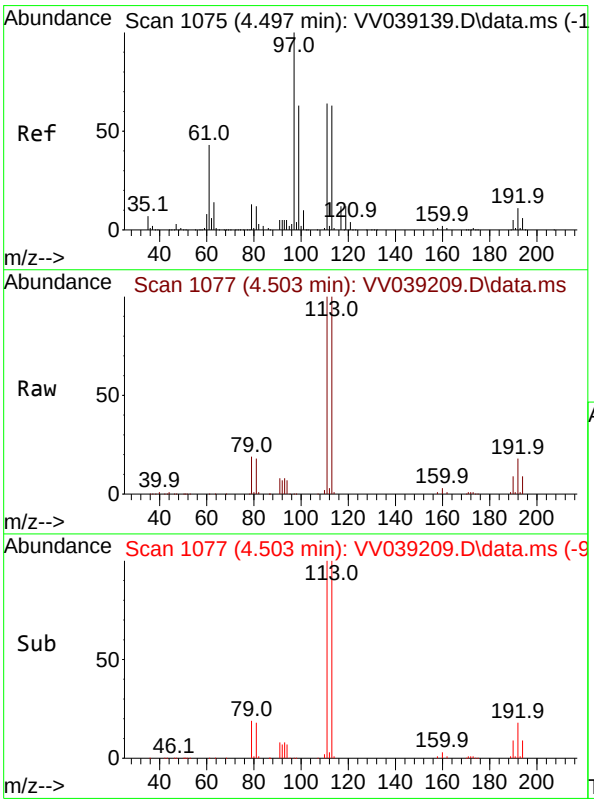
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.9 | 0.0 | 42.6 |
| 88 | 15.6 | 0.0 | 30.8 |

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-19D-092225

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 09/29/2025
Supervised By :Semsettin Yesilyurt 09/29/2025

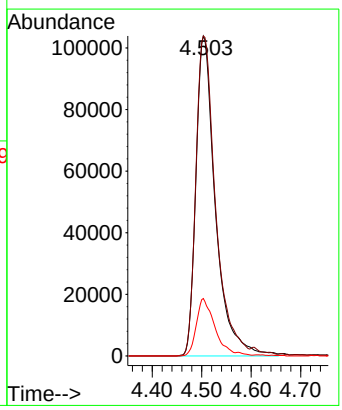


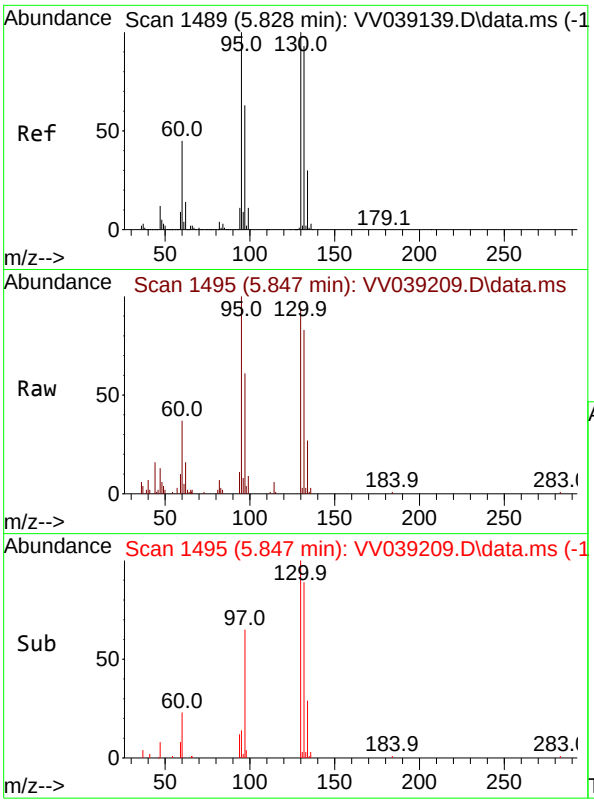




#35
Dibromofluoromethane
Concen: 57.564 ug/l
RT: 4.503 min Scan# 1077
Delta R.T. 0.006 min
Lab File: VV039209.D
Acq: 26 Sep 2025 13:51

Tgt Ion:113 Resp: 284583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 100.8 | 82.4 | 123.6 |
| 192 | 16.8 | 13.8 | 20.8 |

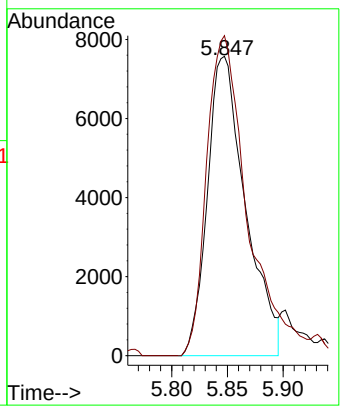





#44
Trichloroethene
Concen: 3.216 ug/l
RT: 5.847 min Scan# 14
Delta R.T. 0.019 min
Lab File: VV039209.D
Acq: 26 Sep 2025 13:51

Tgt Ion:130 Resp: 1806

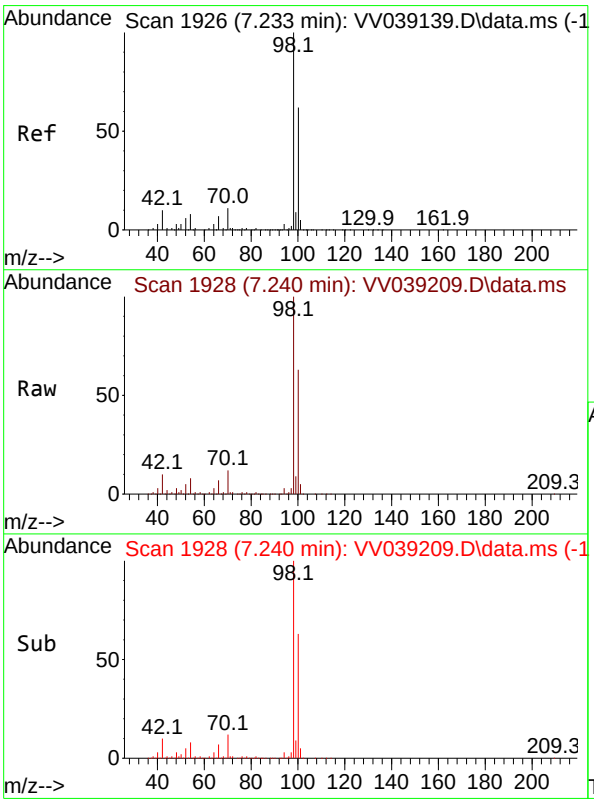
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 106.9 | 0.0 | 199.2 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-19D-092225

**Manual Integrations**
**APPROVED**

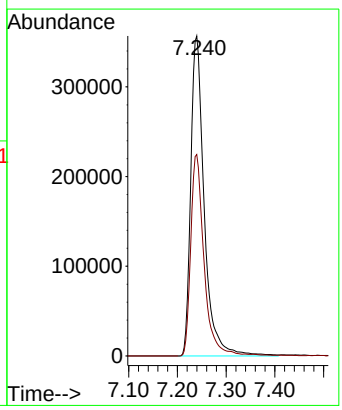
Reviewed By :Mahesh Dadoda 09/29/2025
Supervised By :Semsettin Yesilyurt 09/29/2025

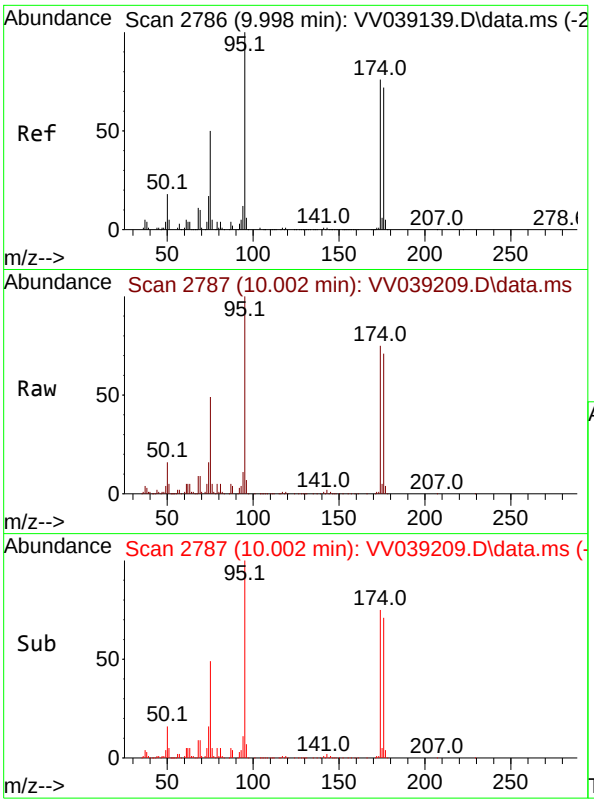



#50
Toluene-d8
Concen: 47.266 ug/l
RT: 7.240 min Scan# 1928
Delta R.T. 0.006 min
Lab File: VV039209.D
Acq: 26 Sep 2025 13:51

Tgt Ion: 98 Resp: 686292

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 61.9 | 52.2 | 78.2 |

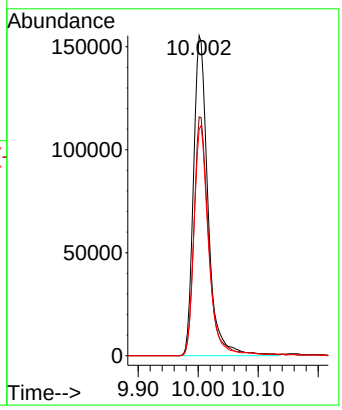





#62
4-Bromofluorobenzene
Concen: 43.765 ug/l
RT: 10.002 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039209.D
Acq: 26 Sep 2025 13:51

Tgt Ion: 95 Resp: 26160

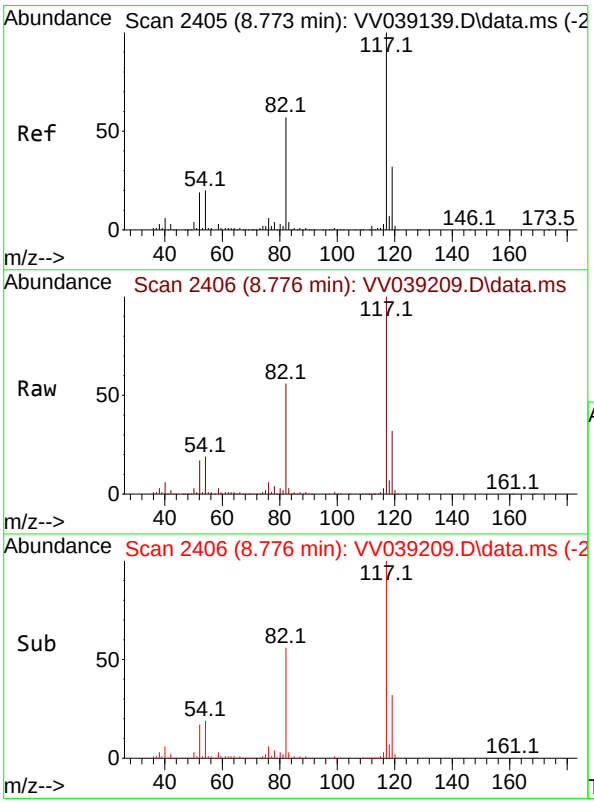
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 75.2 | 0.0 | 150.4 |
| 176 | 71.3 | 0.0 | 144.2 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-19D-092225

**Manual Integrations**
**APPROVED**

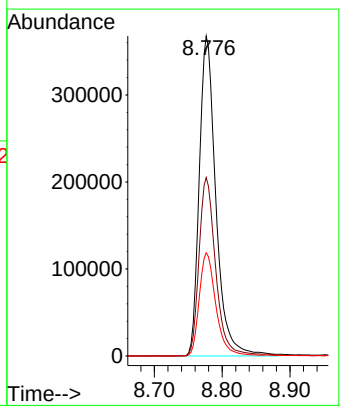
Reviewed By :Mahesh Dadoda 09/29/2025
Supervised By :Semsettin Yesilyurt 09/29/2025

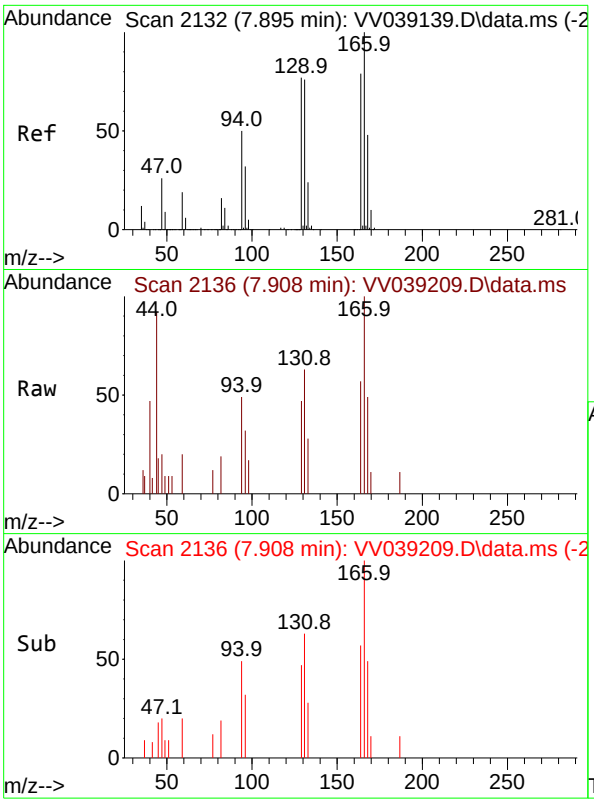



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039209.D
Acq: 26 Sep 2025 13:51

Tgt Ion:117 Resp: 627934

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 55.7 | 45.4 | 68.2 |
| 119 | 32.3 | 25.6 | 38.4 |

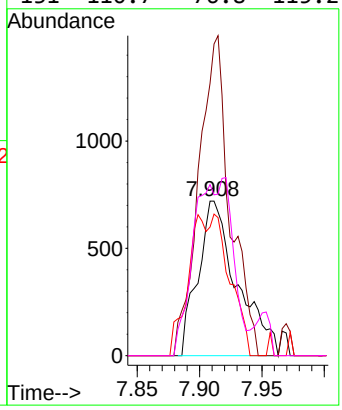





#64
Tetrachloroethene
Concen: 0.299 ug/l
RT: 7.908 min Scan# 21
Delta R.T. 0.013 min
Lab File: VV039209.D
Acq: 26 Sep 2025 13:51

Tgt Ion:164 Resp: 157

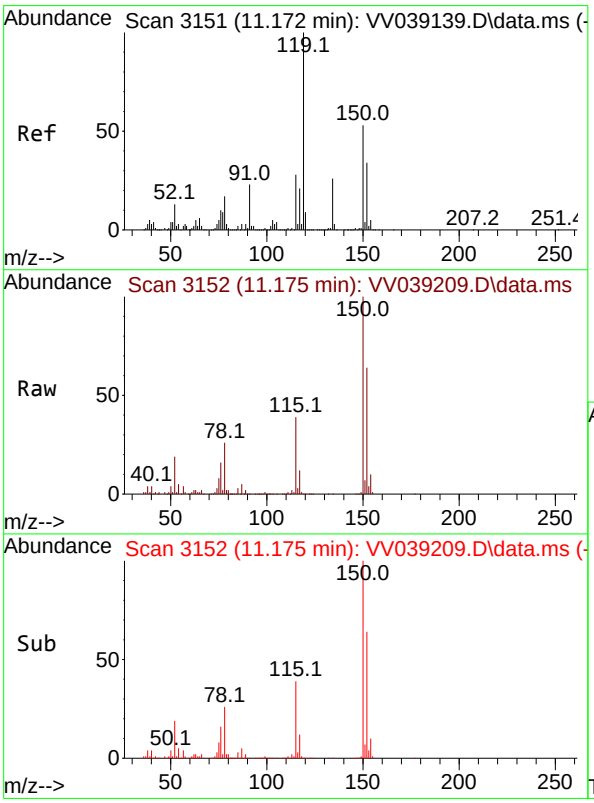
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 176.3 | 101.6 | 152.4 |
| 129 | 83.2 | 78.5 | 117.7 |
| 131 | 110.7 | 76.8 | 115.2 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-19D-092225

**Manual Integrations**
**APPROVED**

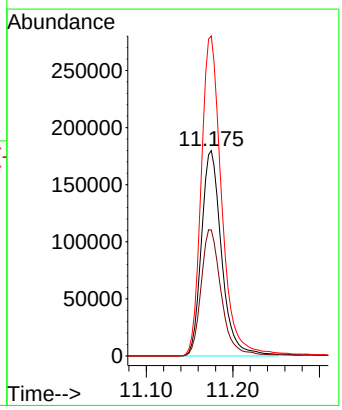
Reviewed By :Mahesh Dadoda 09/29/2025
Supervised By :Semsettin Yesilyurt 09/29/2025




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039209.D
Acq: 26 Sep 2025 13:51

Tgt Ion:152 Resp: 291769

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 61.9 | 44.8 | 134.4 |
| 150 | 159.3 | 0.0 | 353.8 |



Sample Results: **VV039209.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039209.D
Acq On : 26 Sep 2025 13:51
Operator : SY/MD
Sample : Q3195-06
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-19D-092225

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039209.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.121 | 20 | 25 | 45 | rVB2 | 65288 | 99215 | 5.26% | 0.867% |
| 2 | 1.915 | 266 | 272 | 284 | rVB5 | 11190 | 21317 | 1.13% | 0.186% |
| 3 | 2.085 | 314 | 325 | 345 | rBV3 | 94205 | 191786 | 10.17% | 1.675% |
| 4 | 4.503 | 1062 | 1077 | 1096 | rBV2 | 336481 | 887864 | 47.08% | 7.755% |
| 5 | 4.600 | 1096 | 1107 | 1144 | rVB | 398766 | 1104712 | 58.58% | 9.650% |
| 6 | 4.944 | 1203 | 1214 | 1245 | rBV | 346680 | 855068 | 45.34% | 7.469% |
| 7 | 5.535 | 1383 | 1398 | 1434 | rBV | 619316 | 1467896 | 77.84% | 12.822% |
| 8 | 5.847 | 1483 | 1495 | 1517 | rBV3 | 41041 | 101430 | 5.38% | 0.886% |
| 9 | 7.240 | 1915 | 1928 | 1958 | rBV | 912724 | 1776538 | 94.20% | 15.518% |
| 10 | 8.776 | 2394 | 2406 | 2445 | rBV | 1083112 | 1885877 | 100.00% | 16.473% |
| 11 | 10.002 | 2776 | 2787 | 2819 | rBV | 740082 | 1271394 | 67.42% | 11.106% |
| 12 | 11.175 | 3140 | 3152 | 3182 | rBV | 1073757 | 1785132 | 94.66% | 15.593% |

Sum of corrected areas: 11448229

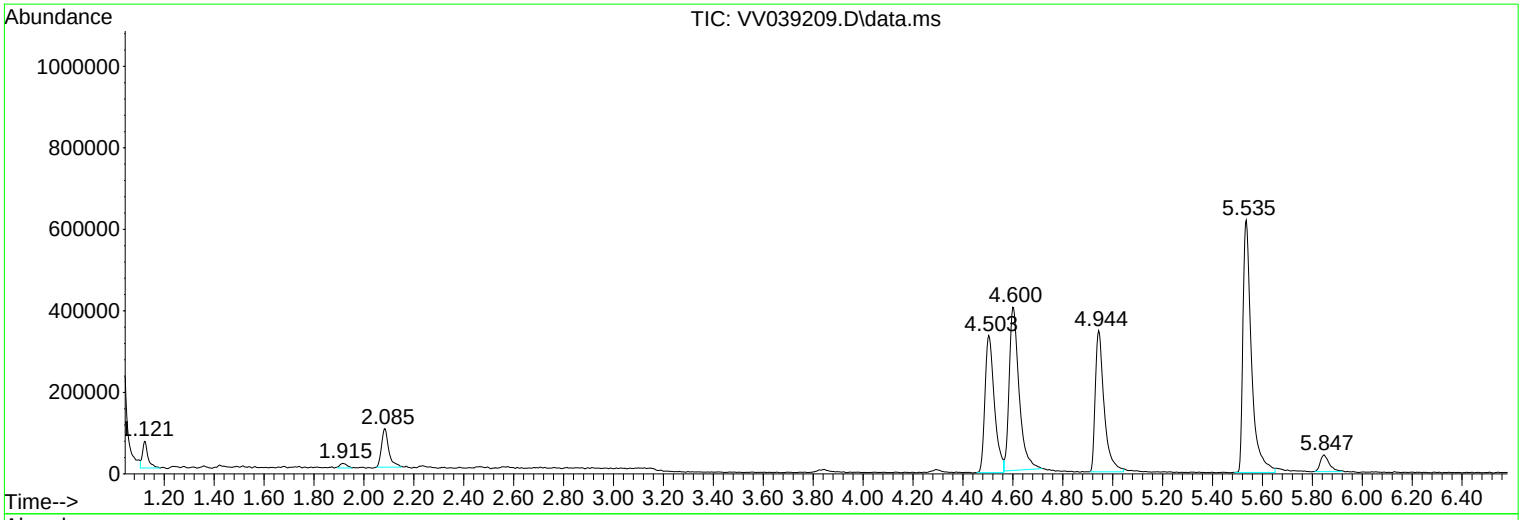
Sample Results: **VV039209.D**

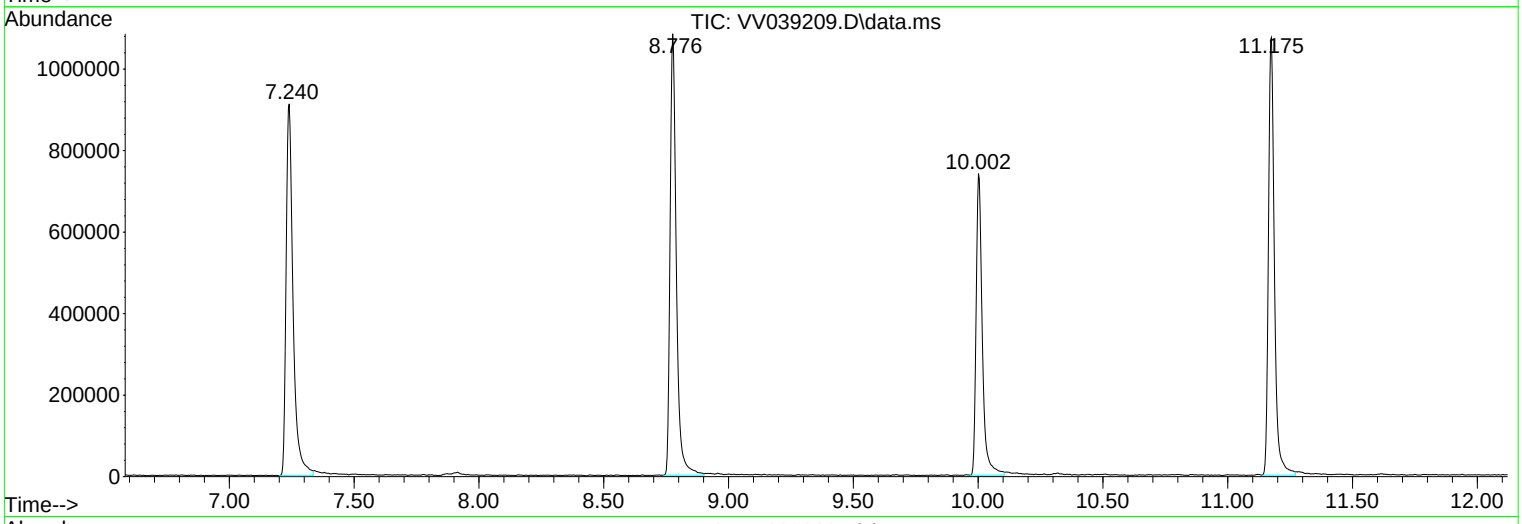
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039209.D
Acq On : 26 Sep 2025 13:51
Operator : SY/MD
Sample : Q3195-06
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 13 Sample Multiplier: 1

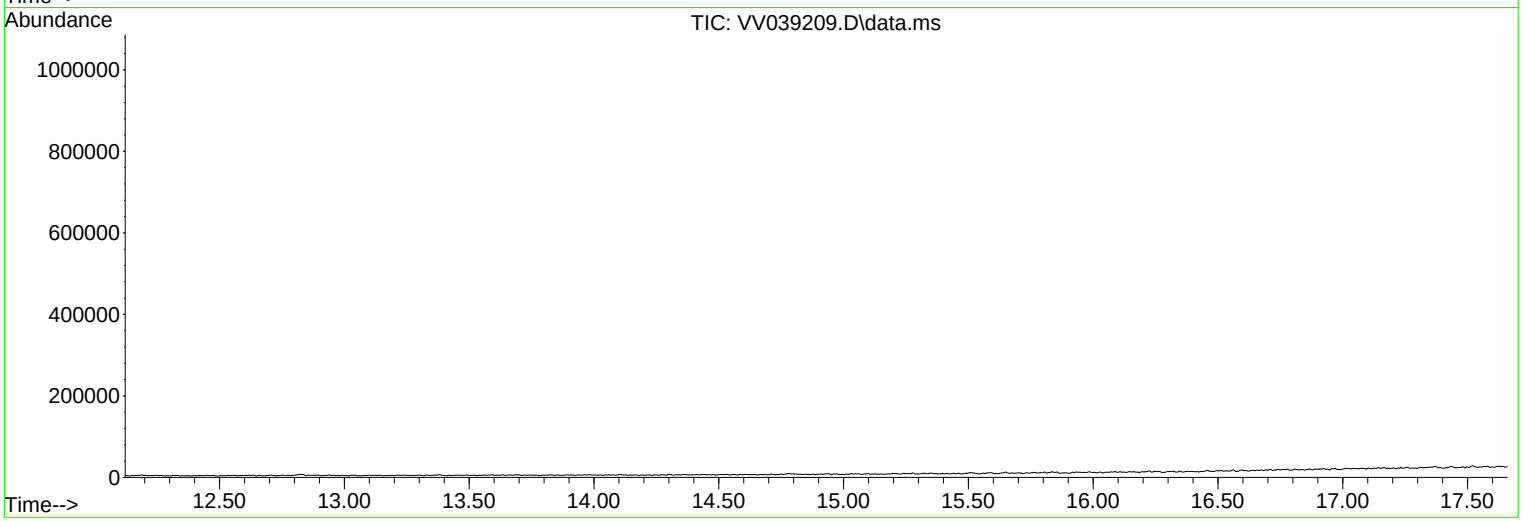
**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-19D-092225

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039209.D
Acq On : 26 Sep 2025 13:51
Operator : SY/MD
Sample : Q3195-06
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-19D-092225

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039209.D
Acq On : 26 Sep 2025 13:51
Operator : SY/MD
Sample : Q3195-06
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-19D-092225

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/23/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-19M-092325 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-07 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039229.D | 1 | 09/29/25 14:16 | VV092925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.33 | U | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.25 | U | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 1.50 | U | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 0.27 | U | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 1.50 | U | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.25 | U | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.16 | U | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.090 | U | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | UQ | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.14 | UQ | 0.14 | 1.00 | ug/L |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/23/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-19M-092325 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-07 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039229.D | 1 | 09/29/25 14:16 | VV092925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.15 | UQ | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | UQ | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | UQ | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.53 | U | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 55.6 | | 74 - 125 | 111% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 56.2 | | 75 - 124 | 112% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 46.0 | | 86 - 113 | 92% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 45.0 | | 77 - 121 | 90% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 436000 | 4.6 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 744000 | 5.535 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 763000 | 8.776 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 379000 | 11.175 | | | |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/23/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-19M-092325 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-07 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039229.D | 1 | 09/29/25 14:16 | VV092925 |

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039229.D
Acq On : 29 Sep 2025 14:16
Operator : SY/MD
Sample : Q3195-07
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-19M-092325

Quant Time: Sep 30 01:25:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

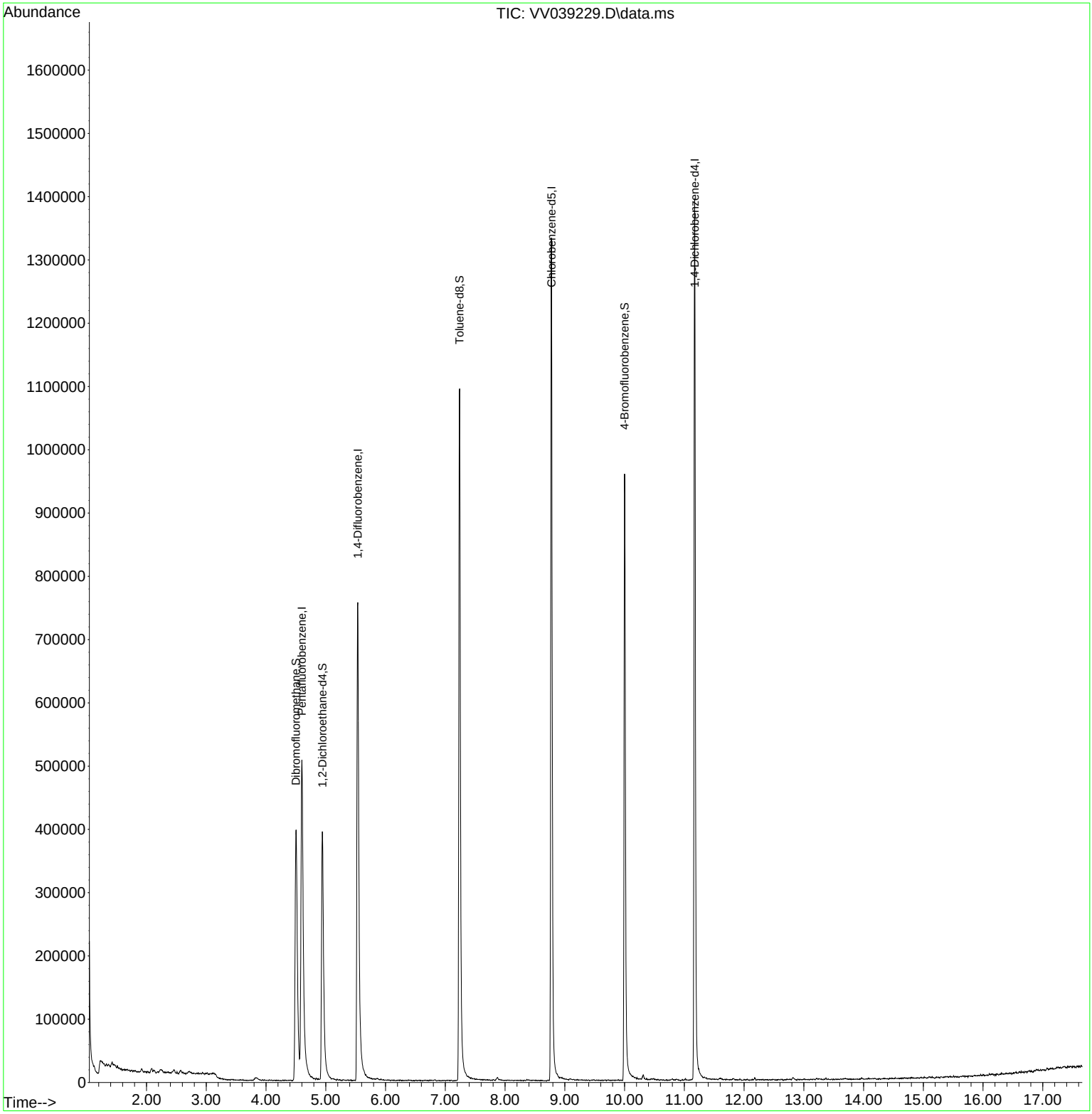
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.600 | 168 | 435615 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.535 | 114 | 743567 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.776 | 117 | 762813 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.175 | 152 | 378816 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.944 | 65 | 350302 | 55.563 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 111.120% | | | |
| 35) Dibromofluoromethane | 4.503 | 113 | 336205 | 56.243 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 112.480% | | | |
| 50) Toluene-d8 | 7.239 | 98 | 807620 | 46.001 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 92.000% | | | |
| 62) 4-Bromofluorobenzene | 10.001 | 95 | 325181 | 44.992 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 89.980% | | | |
| Target Compounds | | | | | | Qvalue |

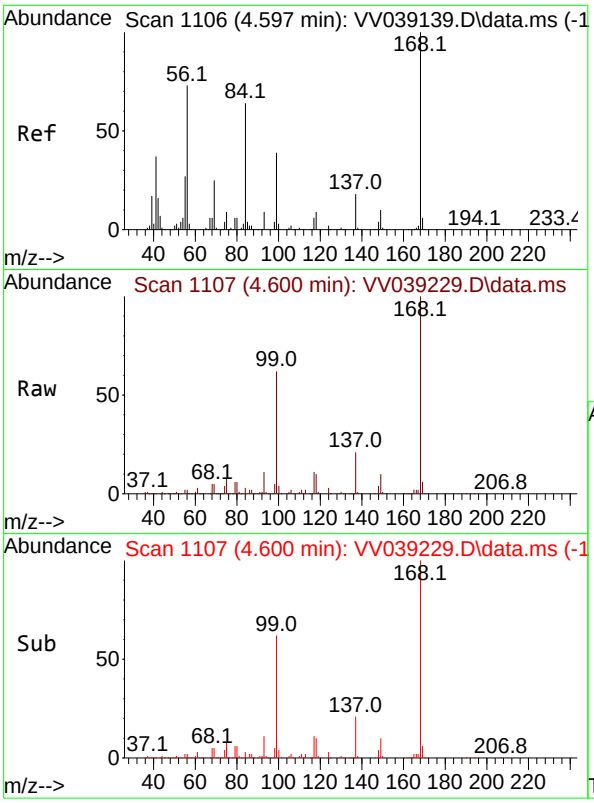
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039229.D
Acq On : 29 Sep 2025 14:16
Operator : SY/MD
Sample : Q3195-07
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-19M-092325

Quant Time: Sep 30 01:25:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



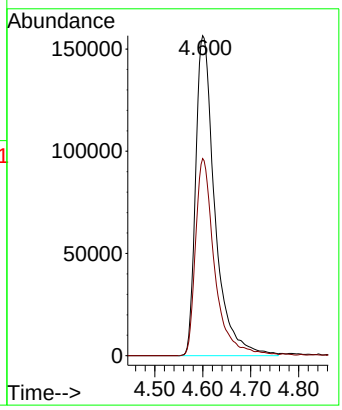


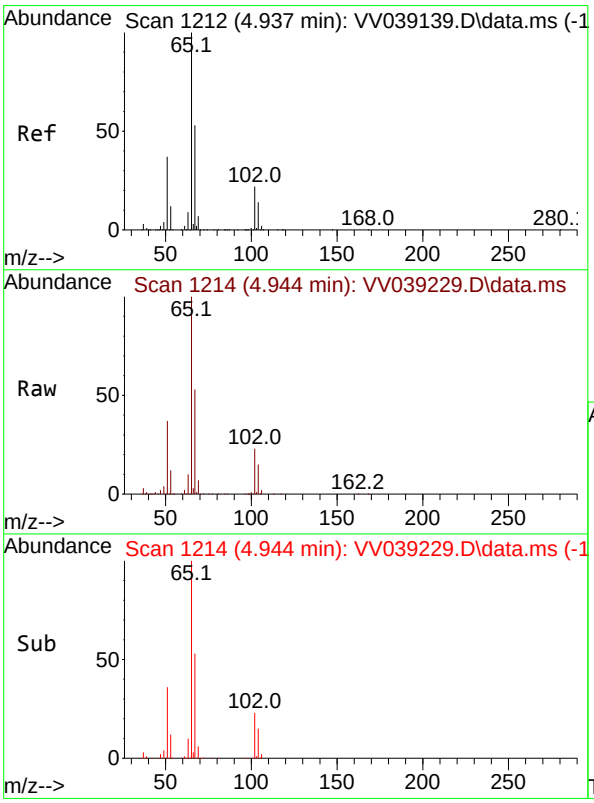

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039229.D
Acq: 29 Sep 2025 14:16

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-19M-092325

Tgt Ion:168 Resp: 435615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 61.6 | 49.6 | 74.4 |

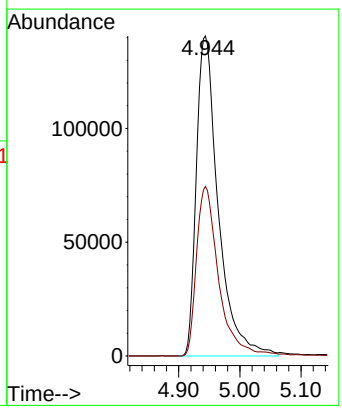


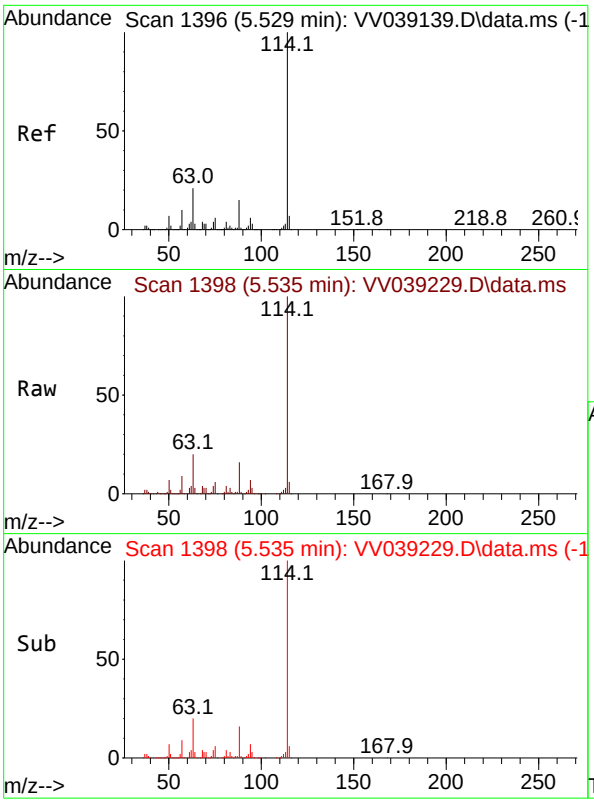




#33
1,2-Dichloroethane-d4
Concen: 55.563 ug/l
RT: 4.944 min Scan# 1214
Delta R.T. 0.006 min
Lab File: VV039229.D
Acq: 29 Sep 2025 14:16

Tgt Ion: 65 Resp: 350302

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.7 | 0.0 | 107.0 |



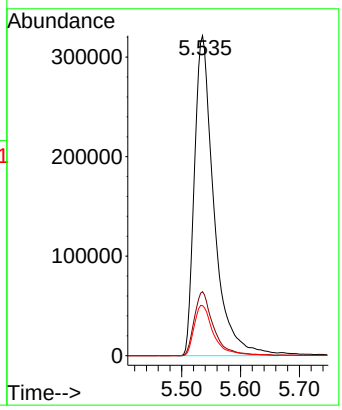


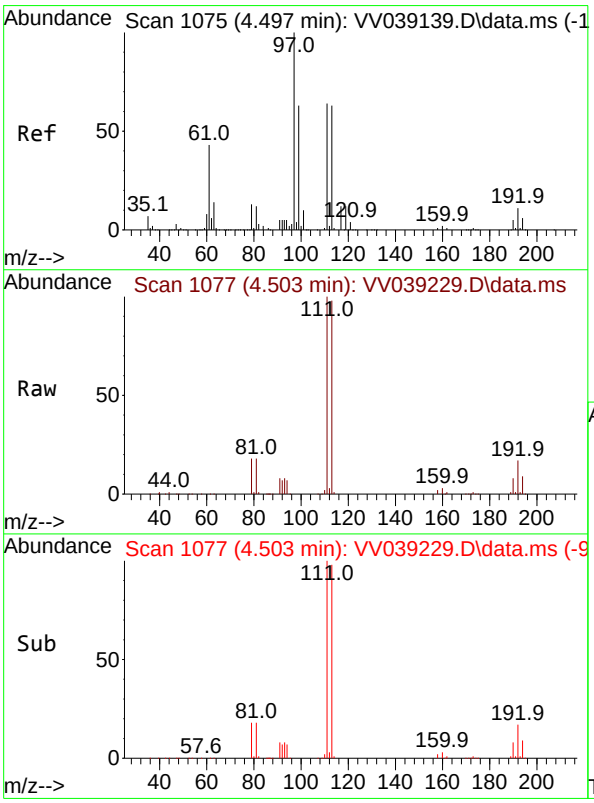

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039229.D
Acq: 29 Sep 2025 14:16

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-19M-092325

Tgt Ion:114 Resp: 743567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.0 | 0.0 | 42.6 |
| 88 | 15.7 | 0.0 | 30.8 |

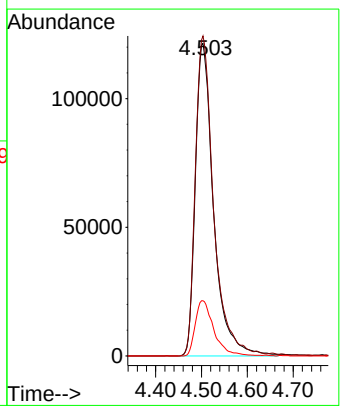


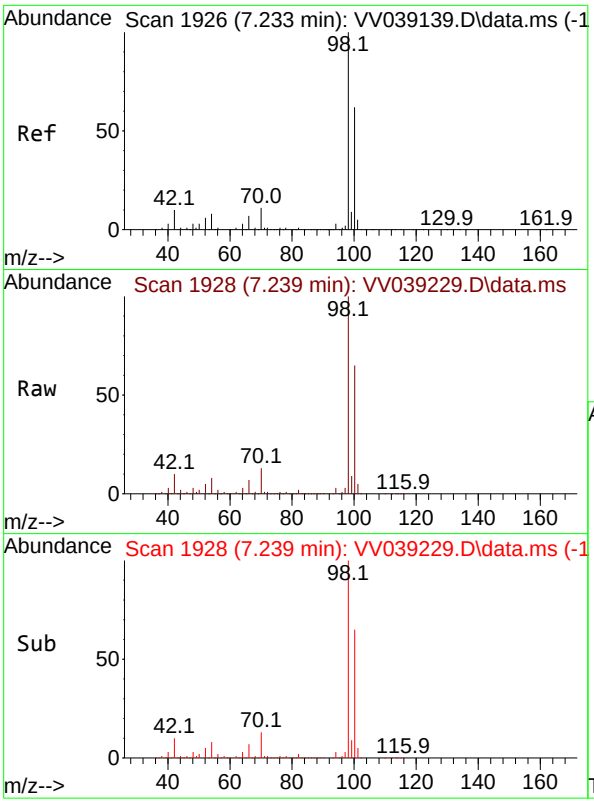




#35
Dibromofluoromethane
Concen: 56.243 ug/l
RT: 4.503 min Scan# 1077
Delta R.T. 0.006 min
Lab File: VV039229.D
Acq: 29 Sep 2025 14:16

Tgt Ion:113 Resp: 336205

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.8 | 82.4 | 123.6 |
| 192 | 18.0 | 13.8 | 20.8 |



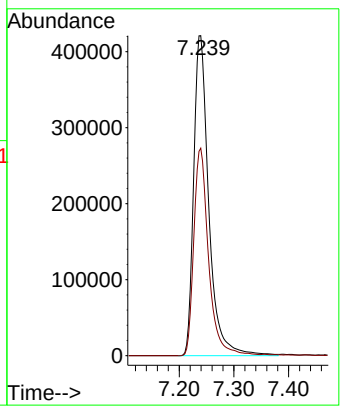


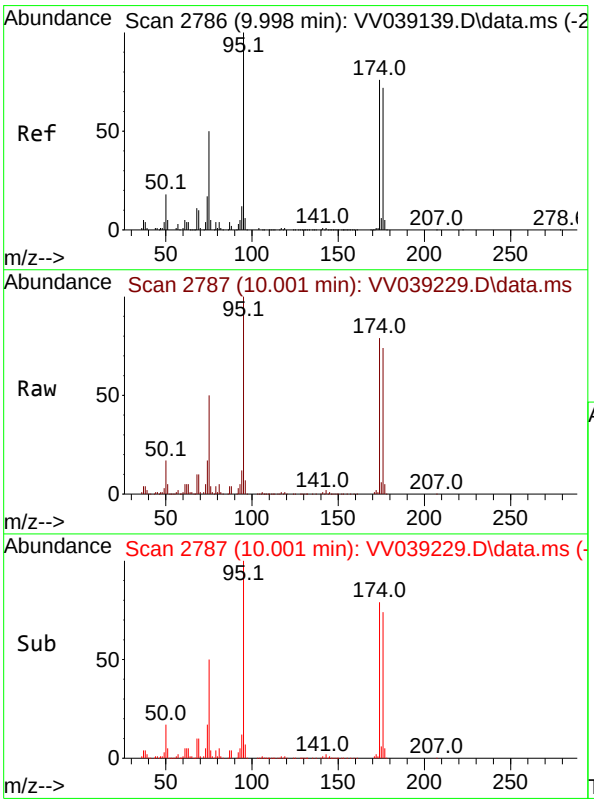

#50
Toluene-d8
Concen: 46.001 ug/l
RT: 7.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039229.D
Acq: 29 Sep 2025 14:16

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-19M-092325

Tgt Ion: 98 Resp: 807620

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.3 | 52.2 | 78.2 |

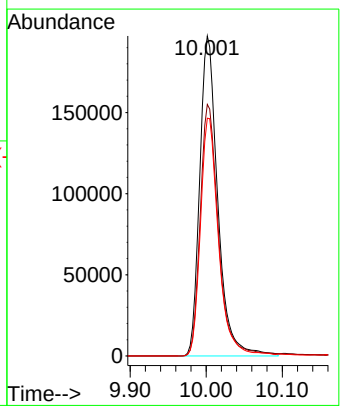


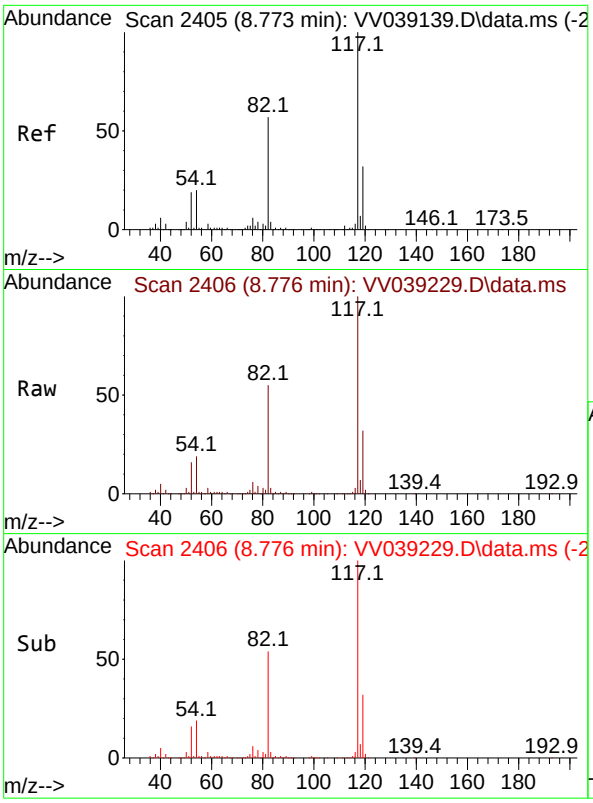




#62
4-Bromofluorobenzene
Concen: 44.992 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039229.D
Acq: 29 Sep 2025 14:16

Tgt Ion: 95 Resp: 325181

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 80.1 | 0.0 | 150.4 |
| 176 | 74.6 | 0.0 | 144.2 |



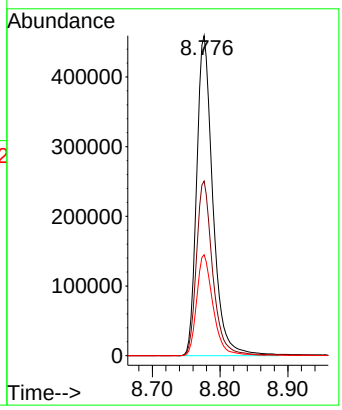


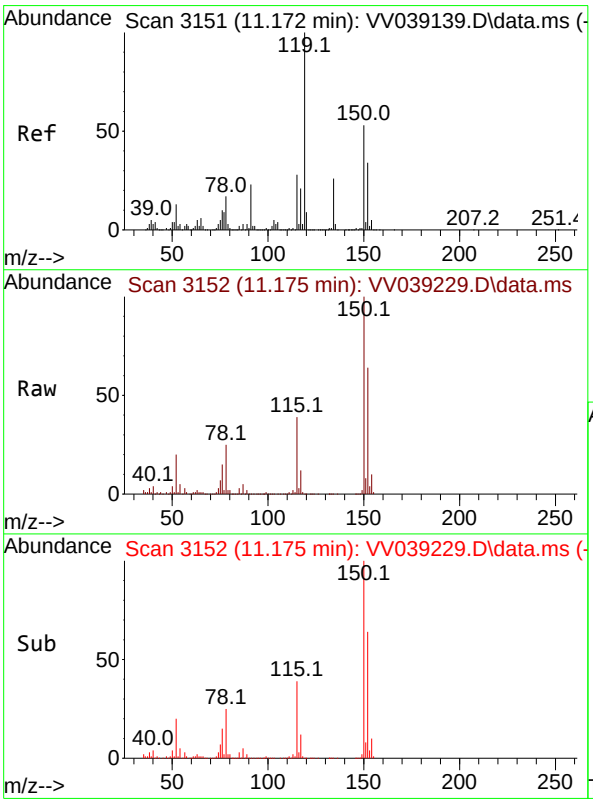

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039229.D
Acq: 29 Sep 2025 14:16

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-19M-092325

Tgt Ion:117 Resp: 762813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.5 | 45.4 | 68.2 |
| 119 | 31.6 | 25.6 | 38.4 |

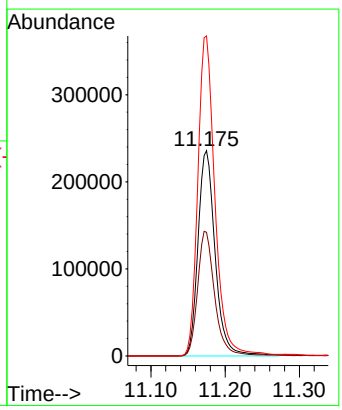



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039229.D
Acq: 29 Sep 2025 14:16

Tgt Ion:152 Resp: 378816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 60.7 | 44.8 | 134.4 |
| 150 | 155.9 | 0.0 | 353.8 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039229.D
Acq On : 29 Sep 2025 14:16
Operator : SY/MD
Sample : Q3195-07
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-19M-092325

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039229.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.503 | 1059 | 1077 | 1095 | rBV | 396416 | 1050223 | 46.48% | 7.840% |
| 2 | 4.600 | 1095 | 1107 | 1145 | rVB | 499573 | 1372387 | 60.74% | 10.245% |
| 3 | 4.944 | 1202 | 1214 | 1254 | rBV | 391346 | 975854 | 43.19% | 7.285% |
| 4 | 5.535 | 1386 | 1398 | 1439 | rBV | 755850 | 1780603 | 78.80% | 13.293% |
| 5 | 7.239 | 1913 | 1928 | 1968 | rBV | 1093673 | 2117086 | 93.69% | 15.805% |
| 6 | 8.776 | 2392 | 2406 | 2436 | rBV | 1331835 | 2259606 | 100.00% | 16.869% |
| 7 | 10.001 | 2777 | 2787 | 2815 | rBV | 958402 | 1597858 | 70.71% | 11.929% |
| 8 | 11.175 | 3137 | 3152 | 3172 | rBV | 1392424 | 2241599 | 99.20% | 16.734% |

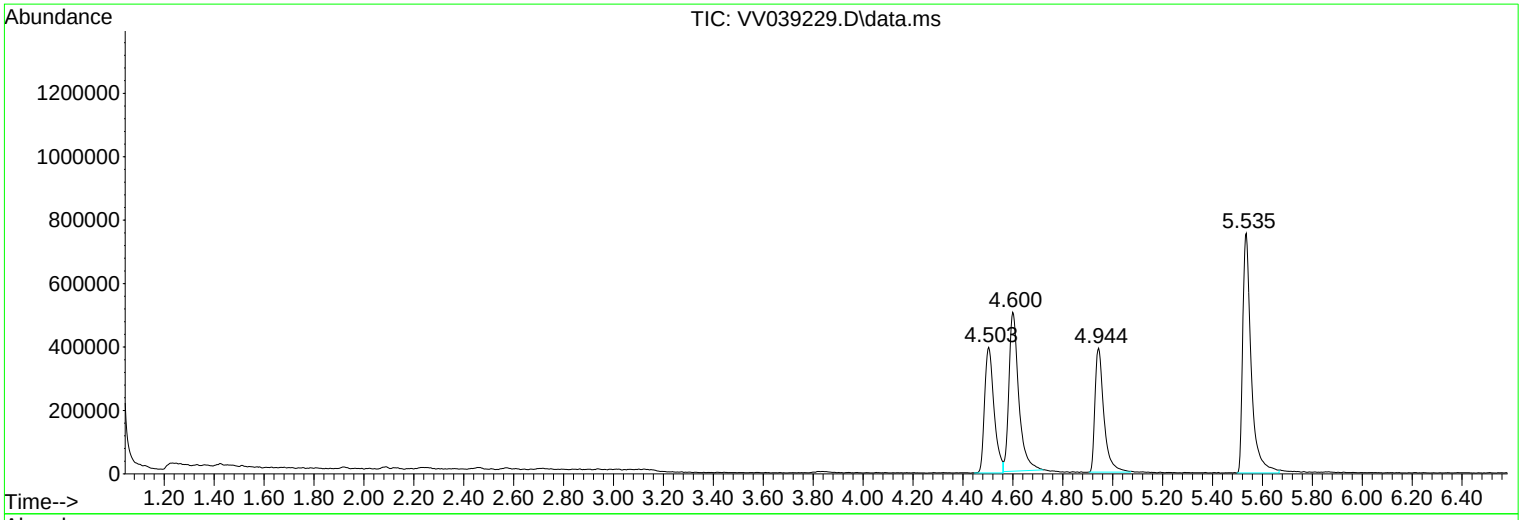
Sum of corrected areas: 13395216

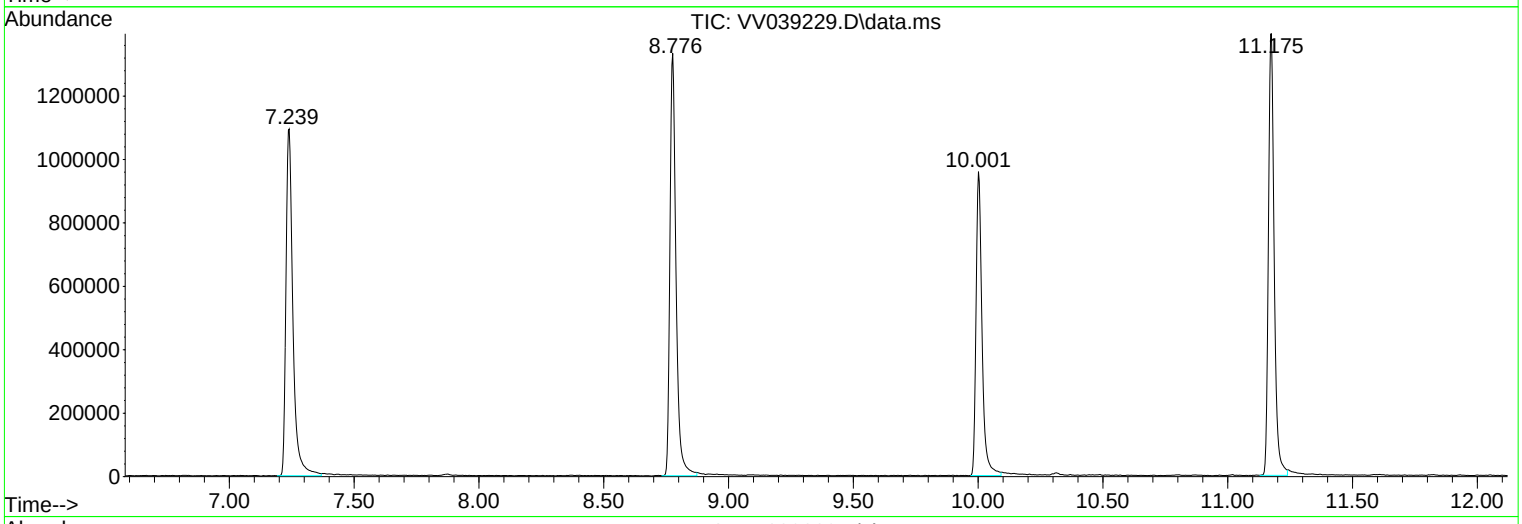
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039229.D
Acq On : 29 Sep 2025 14:16
Operator : SY/MD
Sample : Q3195-07
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 10 Sample Multiplier: 1

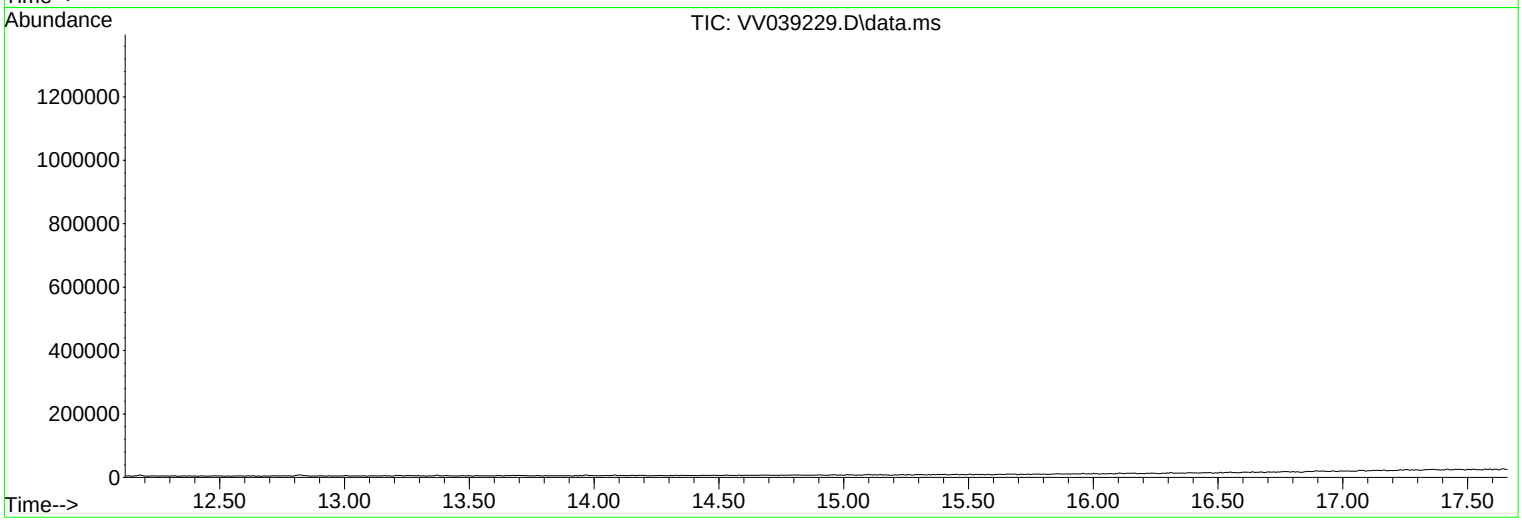
**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-19M-092325

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039229.D
Acq On : 29 Sep 2025 14:16
Operator : SY/MD
Sample : Q3195-07
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-19M-092325

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039229.D
Acq On : 29 Sep 2025 14:16
Operator : SY/MD
Sample : Q3195-07
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-19M-092325

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/19/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-21M-091925 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-08 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039211.D | 1 | 09/26/25 14:36 | VV092625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.33 | U | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.25 | U | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 1.50 | U | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 0.27 | U | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 1.50 | U | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 1.80 | | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.25 | U | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.16 | U | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 2.10 | | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | U | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.14 | U | 0.14 | 1.00 | ug/L |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/19/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-21M-091925 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-08 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039211.D | 1 | 09/26/25 14:36 | VV092625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.15 | U | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | U | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | U | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.53 | U | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 60.8 | | 74 - 125 | 122% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 55.1 | | 75 - 124 | 110% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 47.3 | | 86 - 113 | 95% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 43.8 | | 77 - 121 | 88% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 513000 | 4.6 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 945000 | 5.535 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 957000 | 8.776 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 451000 | 11.175 | | | |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/19/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-21M-091925 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-08 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039211.D | 1 | 09/26/25 14:36 | VV092625 |

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039211.D
Acq On : 26 Sep 2025 14:36
Operator : SY/MD
Sample : Q3195-08
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-21M-091925

Quant Time: Sep 27 02:56:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

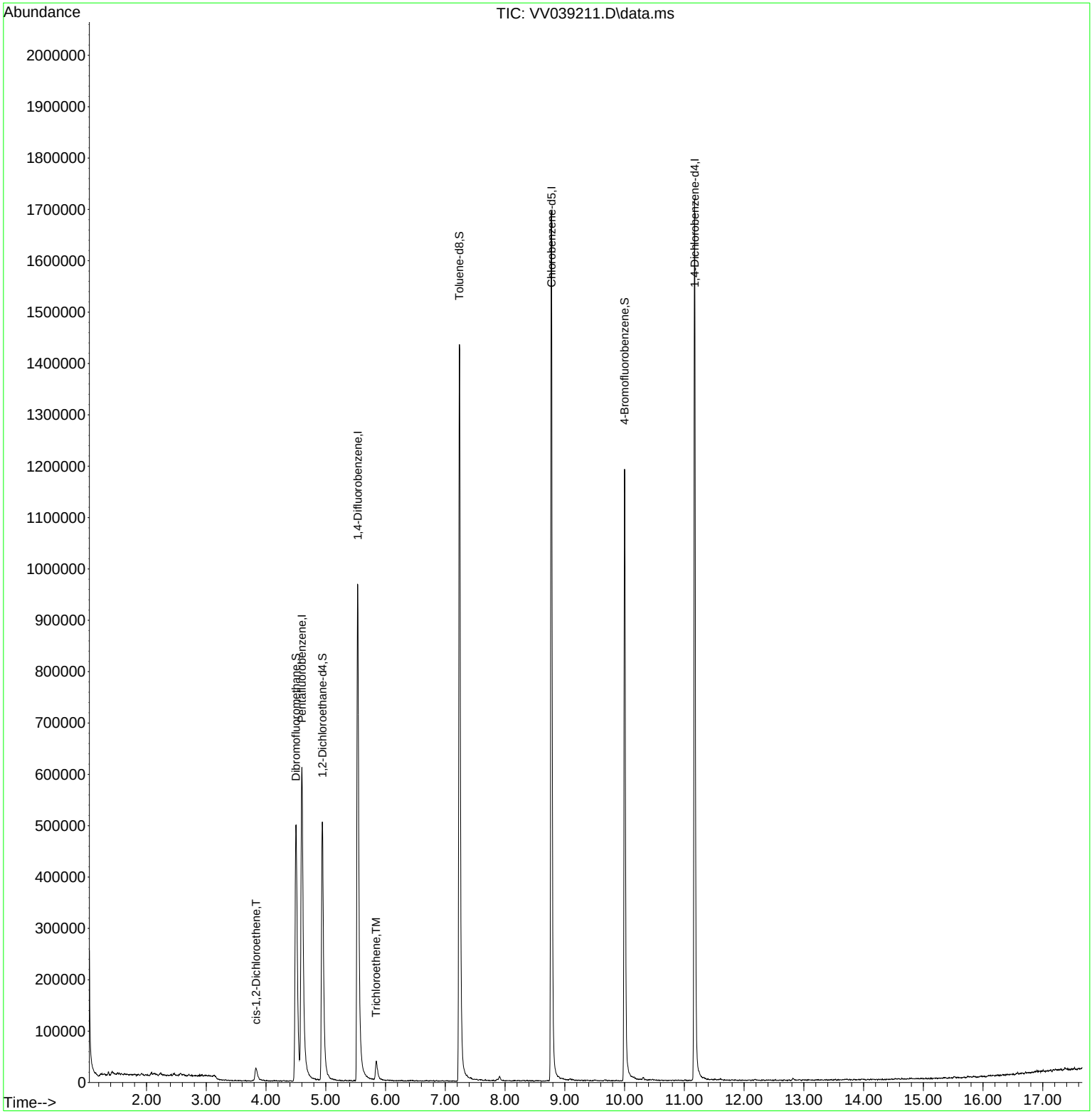
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.600 | 168 | 513487 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.535 | 114 | 944501 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.776 | 117 | 957014 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.175 | 152 | 451121 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.944 | 65 | 452207 | 60.849 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 121.700%# | | | |
| 35) Dibromofluoromethane | 4.500 | 113 | 418436 | 55.108 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 110.220% | | | |
| 50) Toluene-d8 | 7.236 | 98 | 1055705 | 47.339 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 94.680% | | | |
| 62) 4-Bromofluorobenzene | 10.001 | 95 | 402477 | 43.840 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 87.680% | | | |
| Target Compounds | | | | | | Qvalue |
| 27) cis-1,2-Dichloroethene | 3.834 | 96 | 16420 | 1.806 | ug/l | 82 |
| 44) Trichloroethene | 5.844 | 130 | 17696 | 2.051 | ug/l | 85 |

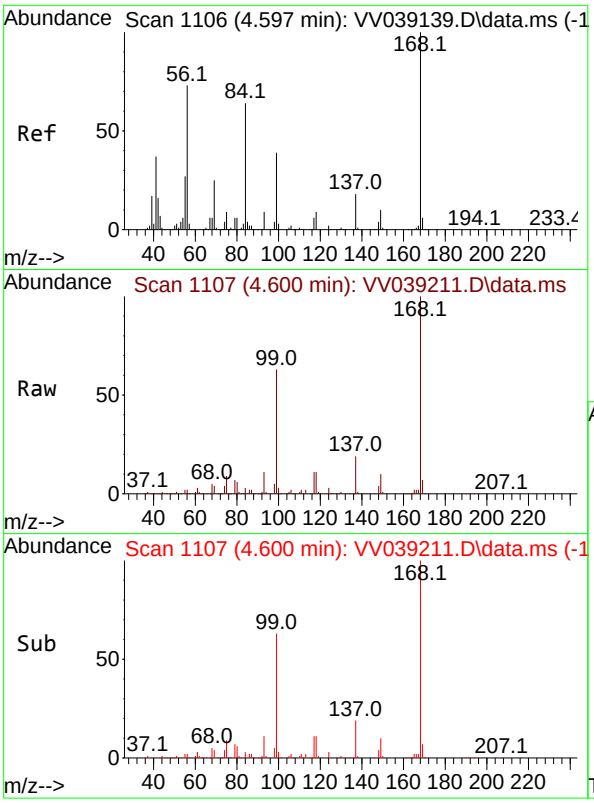
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039211.D
Acq On : 26 Sep 2025 14:36
Operator : SY/MD
Sample : Q3195-08
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-21M-091925

Quant Time: Sep 27 02:56:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



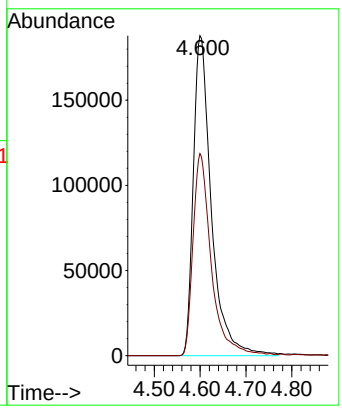


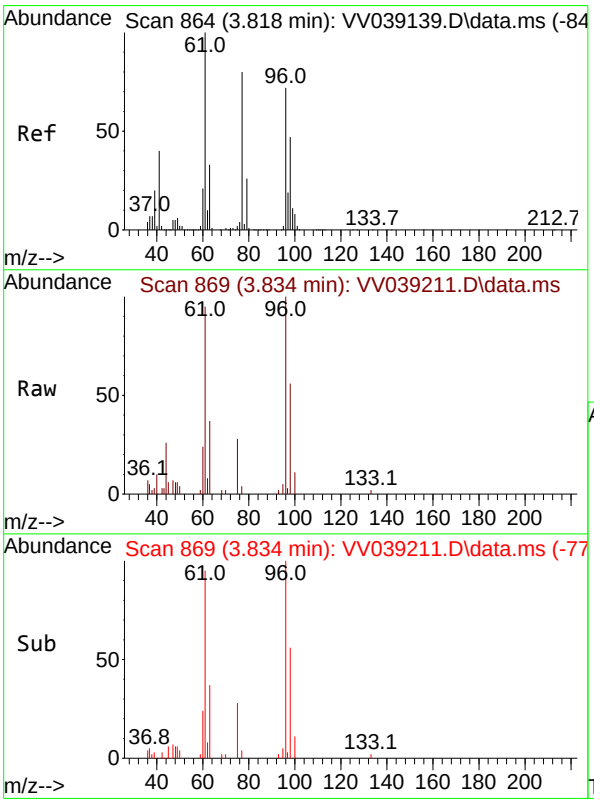

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039211.D
Acq: 26 Sep 2025 14:36

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-21M-091925

Tgt Ion:168 Resp: 513487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 63.1 | 49.6 | 74.4 |

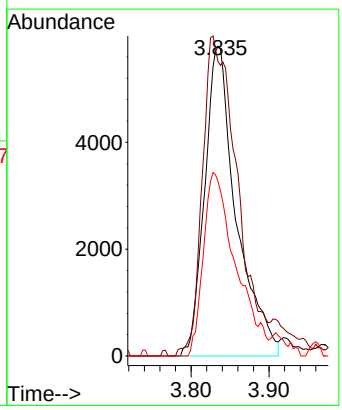


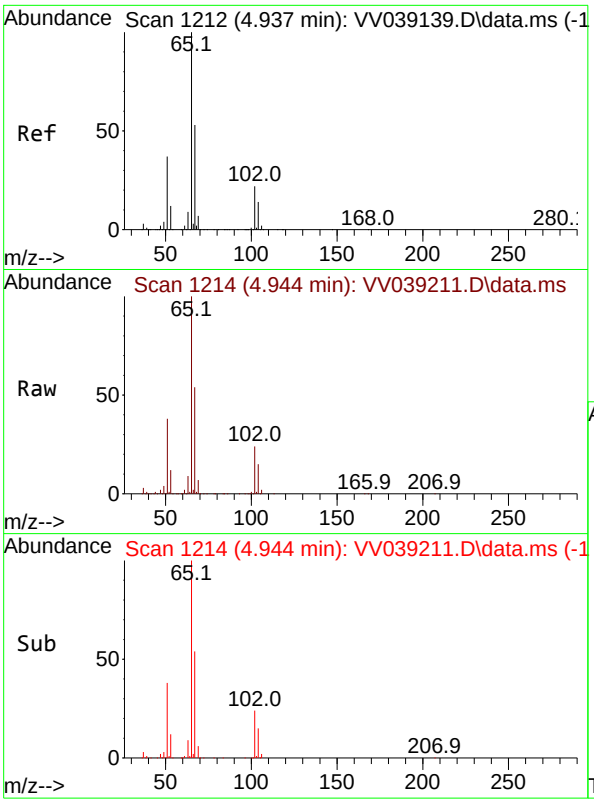




#27
cis-1,2-Dichloroethene
Concen: 1.806 ug/l
RT: 3.834 min Scan# 869
Delta R.T. 0.016 min
Lab File: VV039211.D
Acq: 26 Sep 2025 14:36

Tgt Ion: 96 Resp: 16420

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 112.9 | 0.0 | 286.4 |
| 98 | 60.5 | 0.0 | 126.6 |



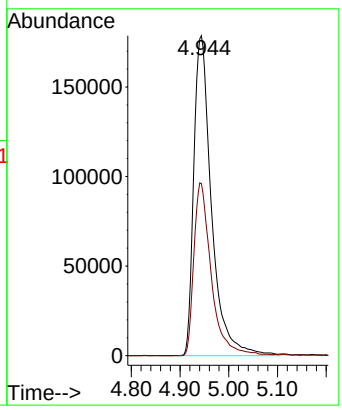


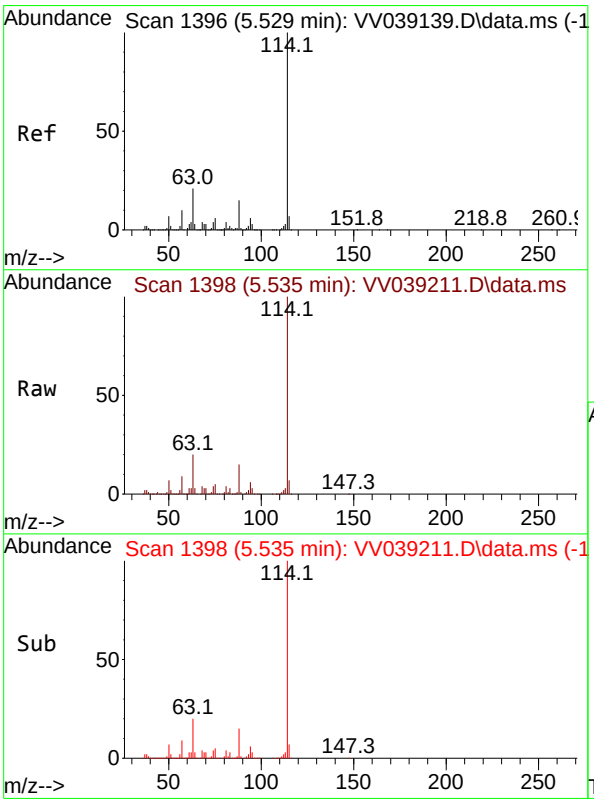

#33
1,2-Dichloroethane-d4
Concen: 60.849 ug/l
RT: 4.944 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039211.D
Acq: 26 Sep 2025 14:36

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-21M-091925

Tgt Ion: 65 Resp: 452207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.0 | 0.0 | 107.0 |

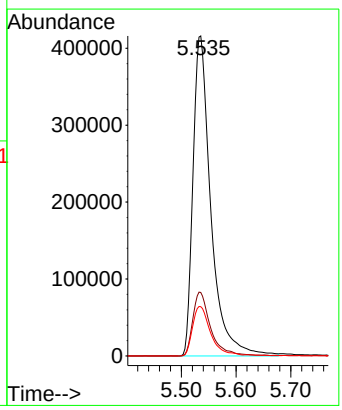


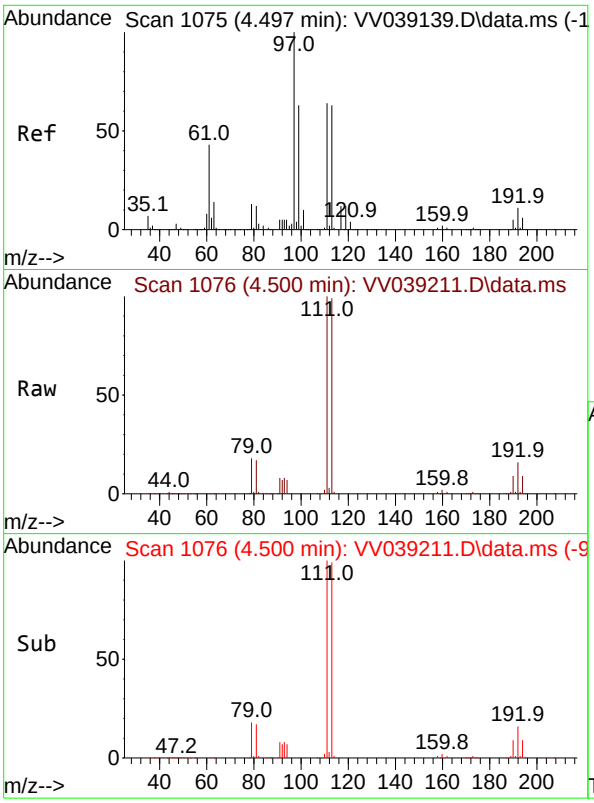




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VV039211.D
Acq: 26 Sep 2025 14:36

Tgt Ion:114 Resp: 944501

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.9 | 0.0 | 42.6 |
| 88 | 15.4 | 0.0 | 30.8 |



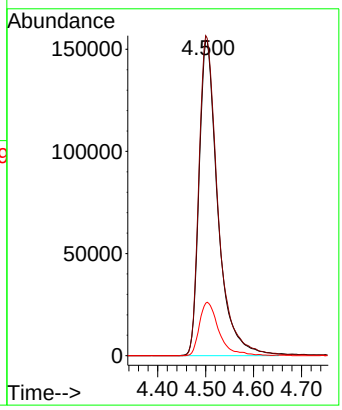


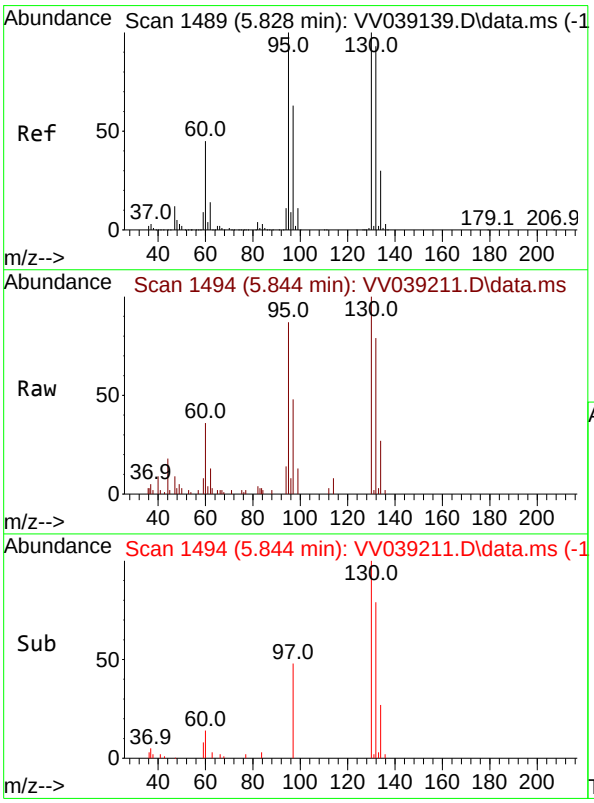

#35
Dibromofluoromethane
Concen: 55.108 ug/l
RT: 4.500 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039211.D
Acq: 26 Sep 2025 14:36

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-21M-091925

Tgt Ion:113 Resp: 418436

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.0 | 82.4 | 123.6 |
| 192 | 17.6 | 13.8 | 20.8 |

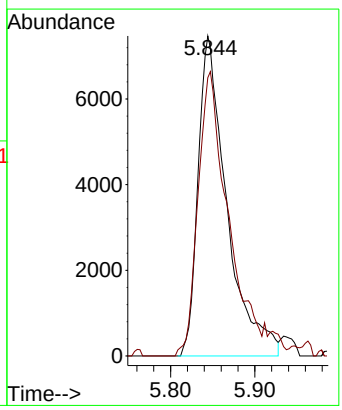


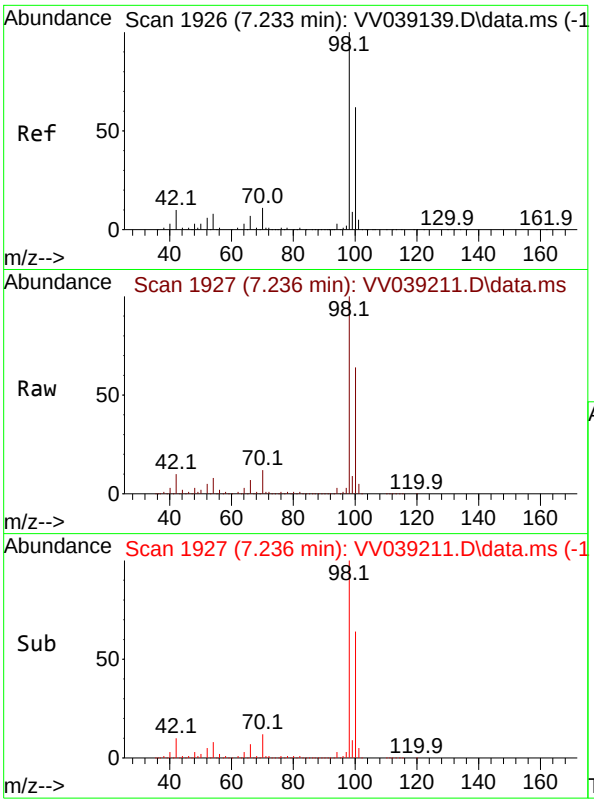




#44
Trichloroethene
Concen: 2.051 ug/l
RT: 5.844 min Scan# 1494
Delta R.T. 0.016 min
Lab File: VV039211.D
Acq: 26 Sep 2025 14:36

Tgt Ion:130 Resp: 17696

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 85.0 | 0.0 | 199.2 |



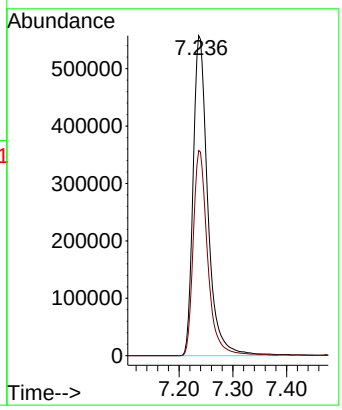


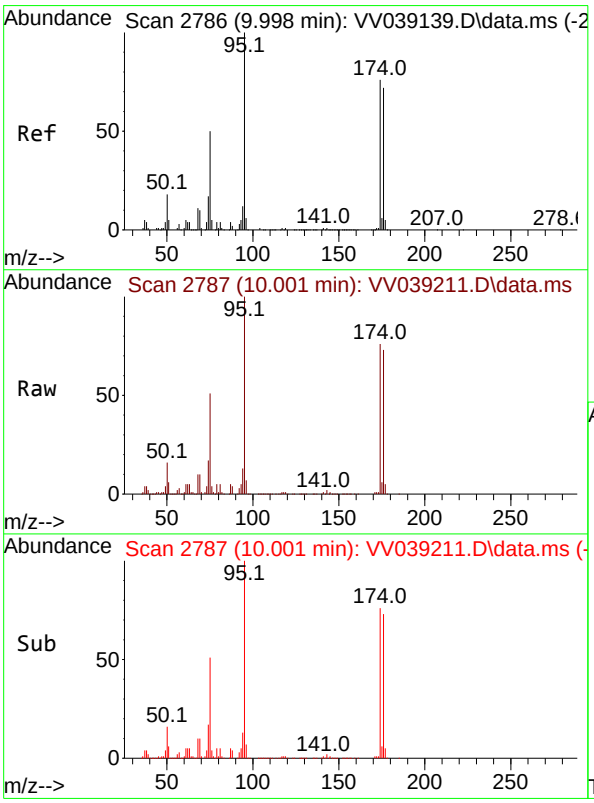

#50
Toluene-d8
Concen: 47.339 ug/l
RT: 7.236 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039211.D
Acq: 26 Sep 2025 14:36

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-21M-091925

Tgt Ion: 98 Resp: 1055705

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.0 | 52.2 | 78.2 |

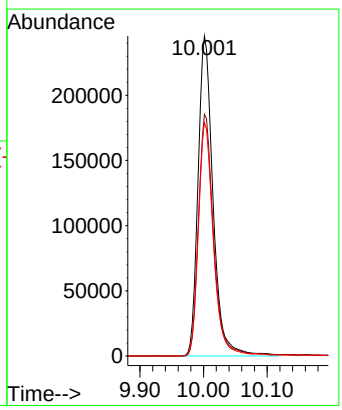


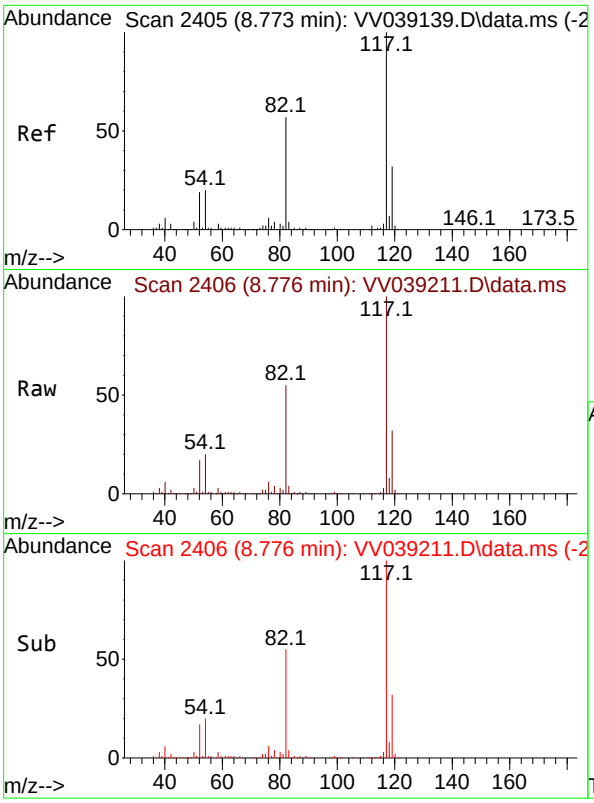




#62
4-Bromofluorobenzene
Concen: 43.840 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039211.D
Acq: 26 Sep 2025 14:36

Tgt Ion: 95 Resp: 402477

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 76.5 | 0.0 | 150.4 |
| 176 | 72.7 | 0.0 | 144.2 |



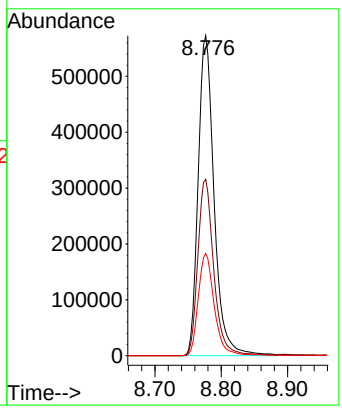


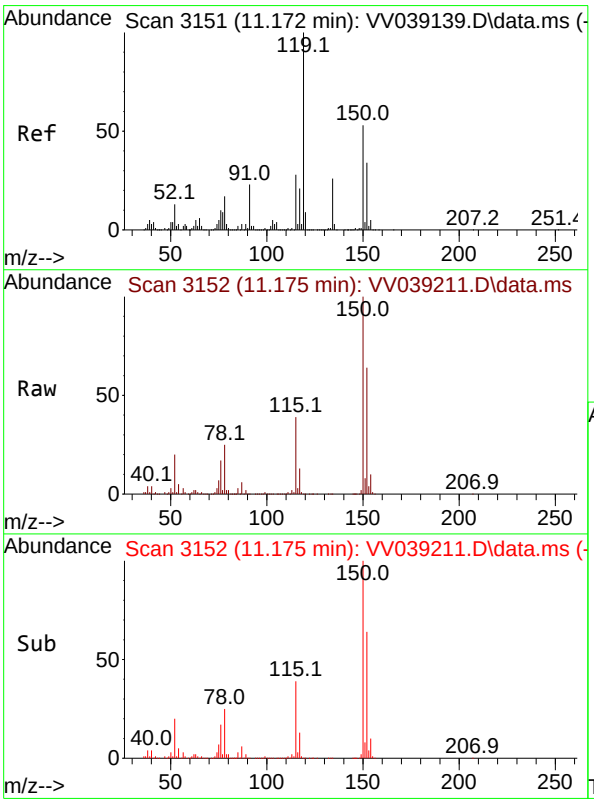

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039211.D
Acq: 26 Sep 2025 14:36

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-21M-091925

Tgt Ion:117 Resp: 957014

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 55.1 | 45.4 | 68.2 |
| 119 | 31.9 | 25.6 | 38.4 |

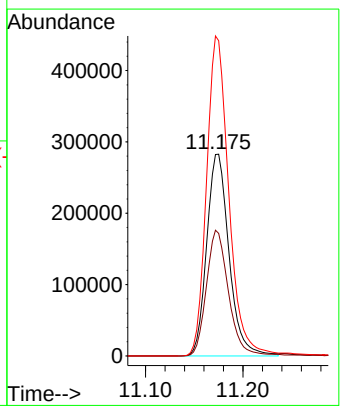



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039211.D
Acq: 26 Sep 2025 14:36

Tgt Ion:152 Resp: 451121

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 62.2 | 44.8 | 134.4 |
| 150 | 158.8 | 0.0 | 353.8 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039211.D
Acq On : 26 Sep 2025 14:36
Operator : SY/MD
Sample : Q3195-08
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-21M-091925

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039211.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 3.831 | 856 | 868 | 889 | rBV4 | 24211 | 68230 | 2.38% | 0.402% |
| 2 | 4.503 | 1061 | 1077 | 1095 | rBV | 498585 | 1309821 | 45.63% | 7.722% |
| 3 | 4.600 | 1095 | 1107 | 1145 | rVB | 602576 | 1647635 | 57.40% | 9.713% |
| 4 | 4.944 | 1200 | 1214 | 1255 | rBV | 502521 | 1265682 | 44.09% | 7.462% |
| 5 | 5.532 | 1386 | 1397 | 1443 | rBV | 966903 | 2254579 | 78.54% | 13.291% |
| 6 | 5.844 | 1482 | 1494 | 1514 | rBV3 | 36005 | 88882 | 3.10% | 0.524% |
| 7 | 7.236 | 1915 | 1927 | 1957 | rBV | 1434812 | 2734246 | 95.25% | 16.119% |
| 8 | 8.776 | 2394 | 2406 | 2438 | rBV | 1693539 | 2870553 | 100.00% | 16.923% |
| 9 | 10.001 | 2776 | 2787 | 2820 | rBV | 1190808 | 1973947 | 68.77% | 11.637% |
| 10 | 11.172 | 3137 | 3151 | 3173 | rBV | 1716199 | 2749220 | 95.77% | 16.207% |

Sum of corrected areas: 16962795

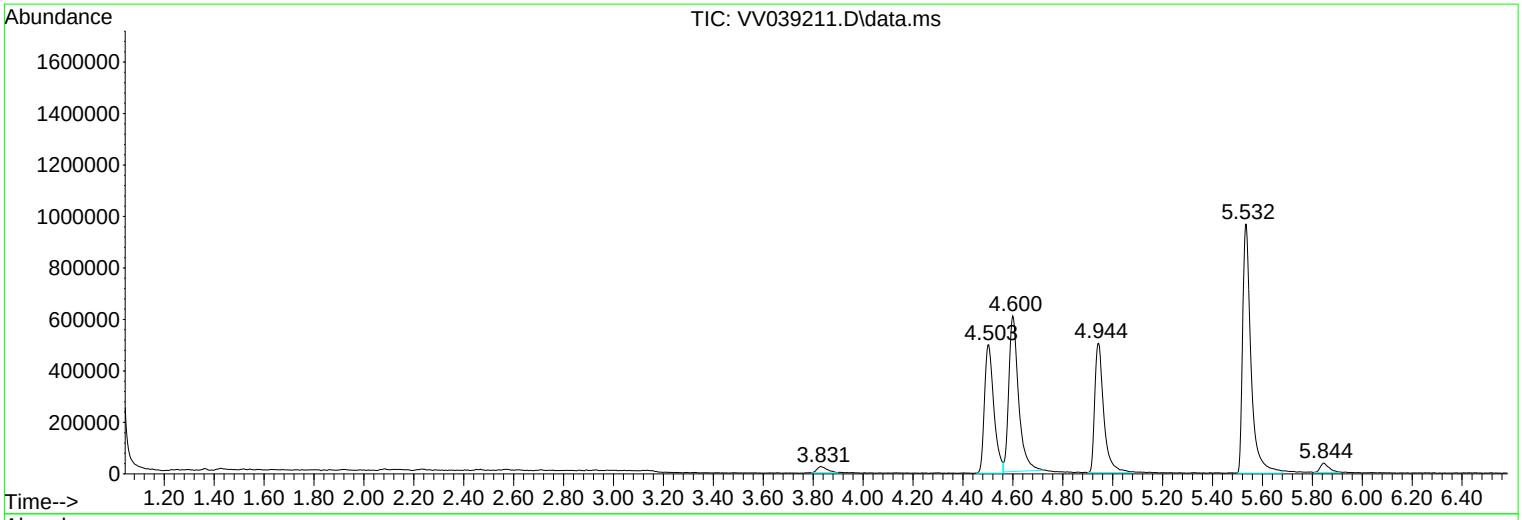
Sample Results: **VV039211.D**

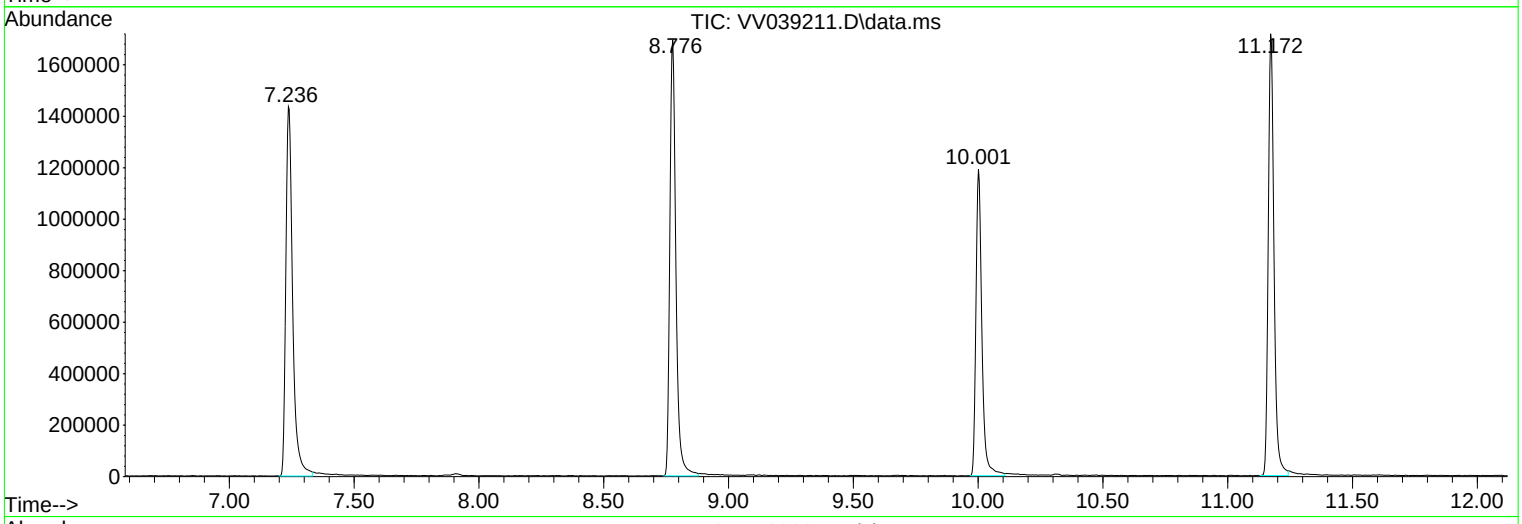
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039211.D
Acq On : 26 Sep 2025 14:36
Operator : SY/MD
Sample : Q3195-08
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 15 Sample Multiplier: 1

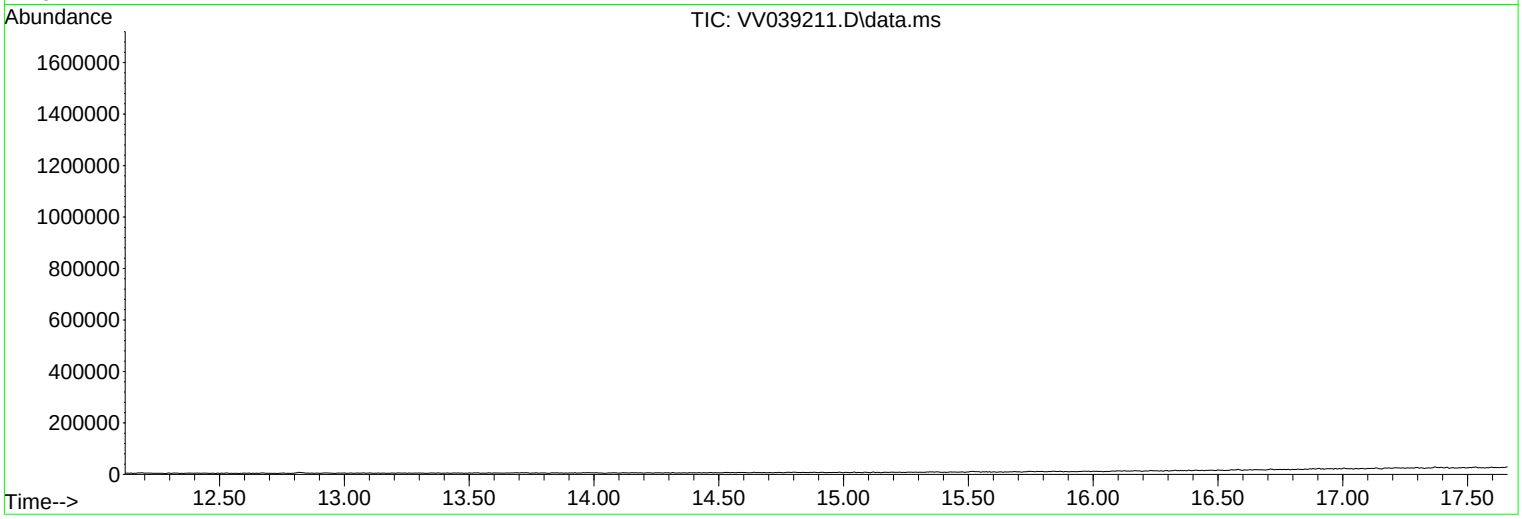
**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-21M-091925

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039211.D
Acq On : 26 Sep 2025 14:36
Operator : SY/MD
Sample : Q3195-08
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-21M-091925

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039211.D
Acq On : 26 Sep 2025 14:36
Operator : SY/MD
Sample : Q3195-08
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 15 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-21M-091925

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/18/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-22-091825 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-09 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039193.D | 1 | 09/25/25 19:40 | VV092525 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.33 | U | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.25 | U | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 1.50 | U | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 0.27 | U | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 1.50 | U | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 1.80 | | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.98 | J | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.16 | U | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.090 | U | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | U | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.14 | U | 0.14 | 1.00 | ug/L |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/18/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-22-091825 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-09 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039193.D | 1 | 09/25/25 19:40 | VV092525 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.15 | U | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | U | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | U | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.53 | U | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 56.4 | | 74 - 125 | 113% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 51.0 | | 75 - 124 | 102% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 46.5 | | 86 - 113 | 93% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 44.3 | | 77 - 121 | 89% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 525000 | 4.603 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 957000 | 5.535 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 943000 | 8.776 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 451000 | 11.175 | | | |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/18/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-22-091825 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-09 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039193.D | 1 | 09/25/25 19:40 | VV092525 |

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039193.D
Acq On : 25 Sep 2025 19:40
Operator : SY/MD
Sample : Q3195-09
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 27 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-22-091825

Quant Time: Sep 26 01:38:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

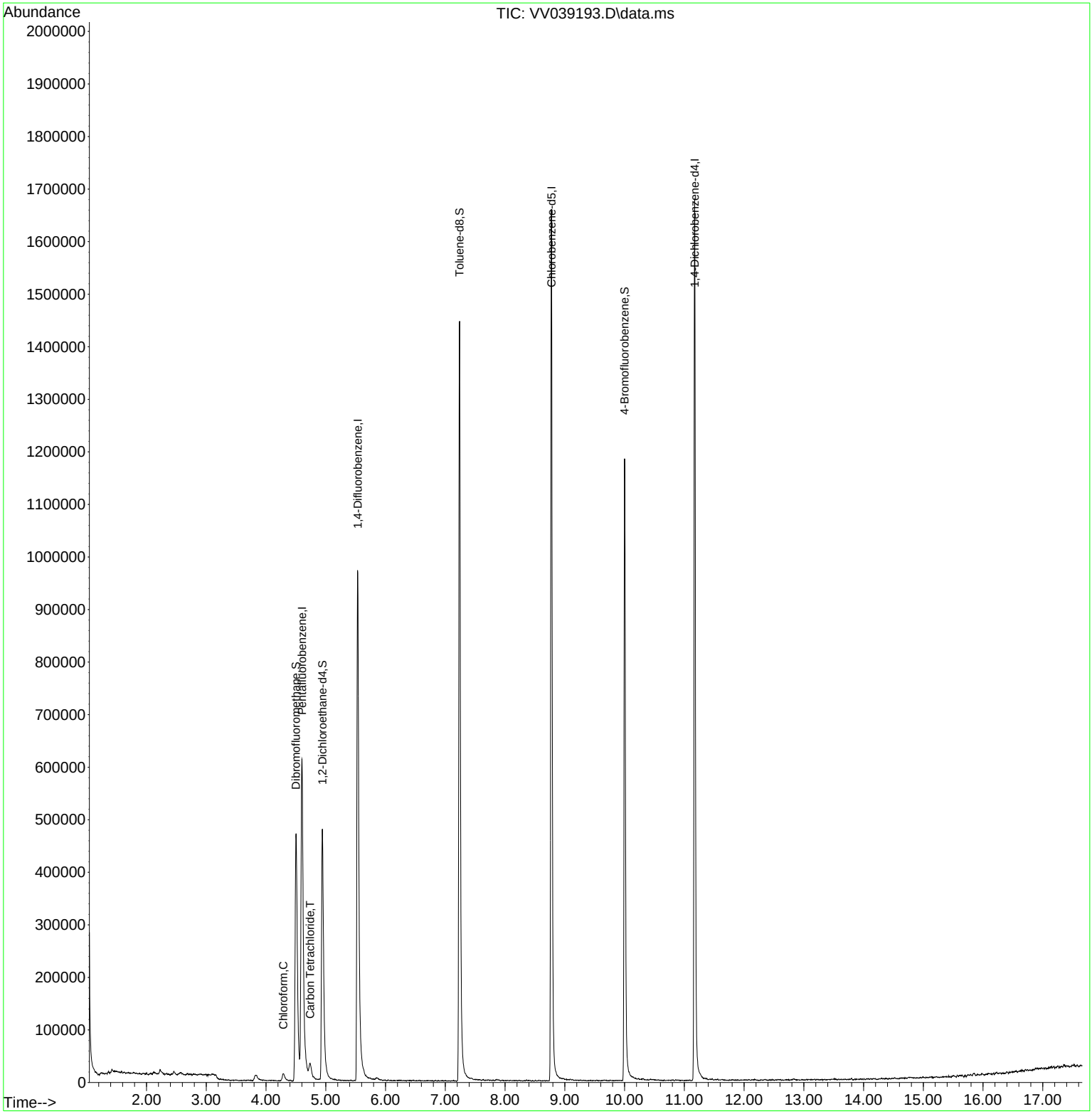
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.603 | 168 | 525270 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.535 | 114 | 956838 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.776 | 117 | 943207 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.175 | 152 | 451495 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.944 | 65 | 428579 | 56.376 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 112.760% | | | |
| 35) Dibromofluoromethane | 4.503 | 113 | 392109 | 50.975 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 101.940% | | | |
| 50) Toluene-d8 | 7.239 | 98 | 1050090 | 46.480 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 92.960% | | | |
| 62) 4-Bromofluorobenzene | 10.001 | 95 | 412268 | 44.327 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 88.660% | | | |
| Target Compounds | | | | | | Qvalue |
| 30) Chloroform | 4.291 | 83 | 16860 | 0.975 | ug/l | 100 |
| 38) Carbon Tetrachloride | 4.738 | 117 | 24918m | 1.753 | ug/l | |

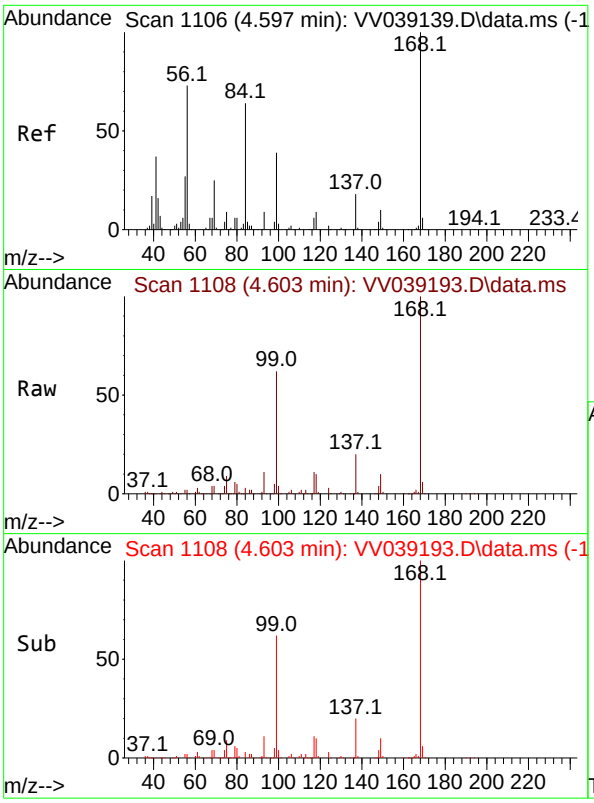
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039193.D
Acq On : 25 Sep 2025 19:40
Operator : SY/MD
Sample : Q3195-09
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 27 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-22-091825

Quant Time: Sep 26 01:38:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



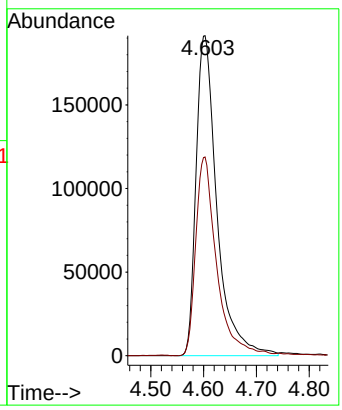


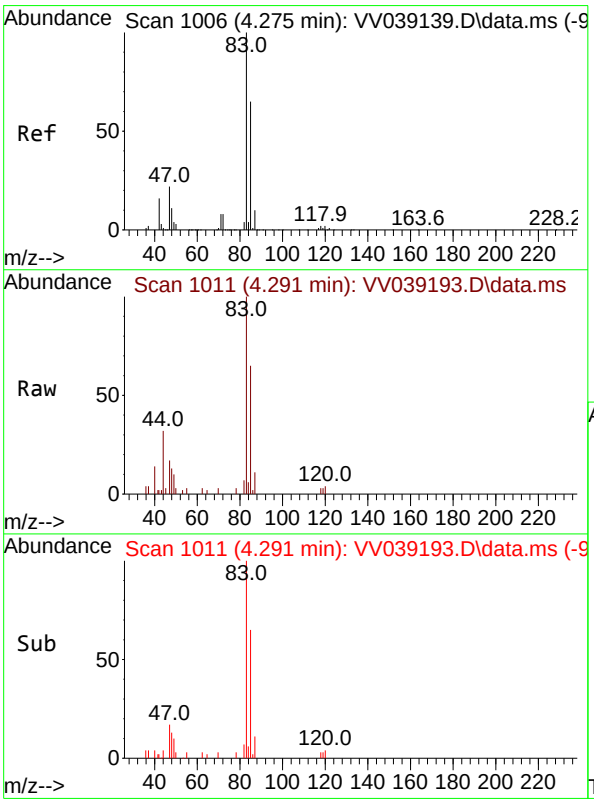

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 11
Delta R.T. 0.006 min
Lab File: VV039193.D
Acq: 25 Sep 2025 19:40

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-22-091825

Tgt Ion:168 Resp: 525270

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 62.1 | 49.6 | 74.4 |

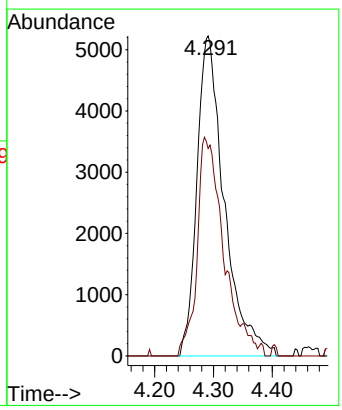


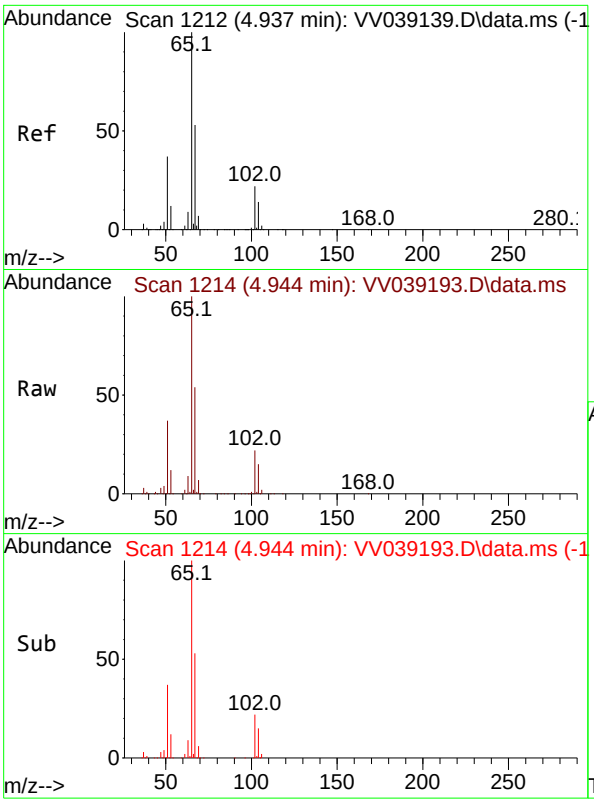




#30
Chloroform
Concen: 0.975 ug/l
RT: 4.291 min Scan# 1011
Delta R.T. 0.016 min
Lab File: VV039193.D
Acq: 25 Sep 2025 19:40

Tgt Ion: 83 Resp: 16860

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.9 | 52.1 | 78.1 |



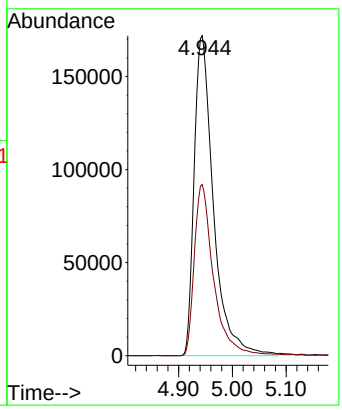


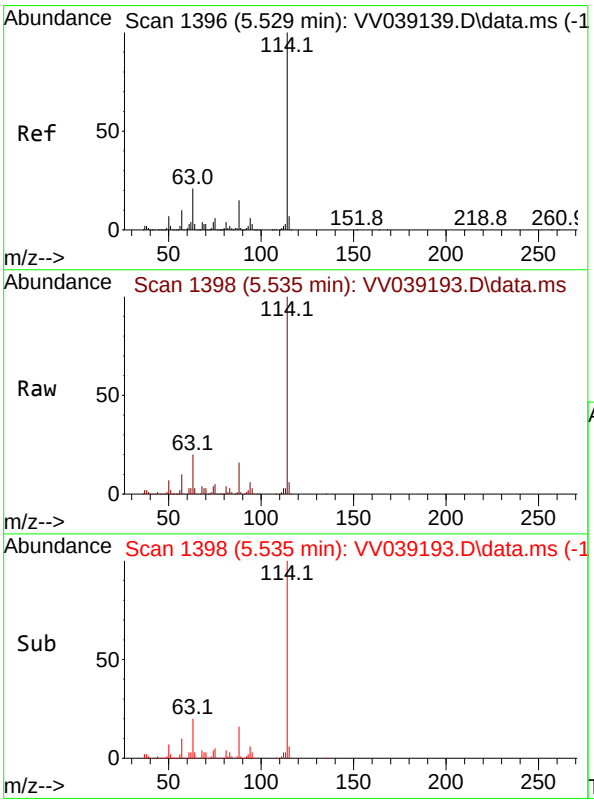

#33
1,2-Dichloroethane-d4
Concen: 56.376 ug/l
RT: 4.944 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039193.D
Acq: 25 Sep 2025 19:40

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-22-091825

Tgt Ion: 65 Resp: 428579

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.5 | 0.0 | 107.0 |

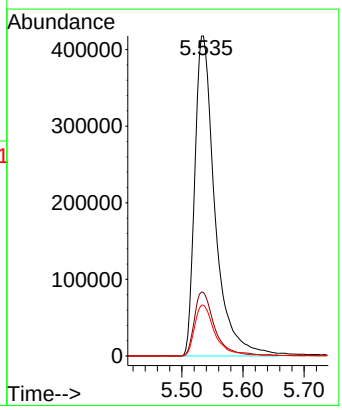


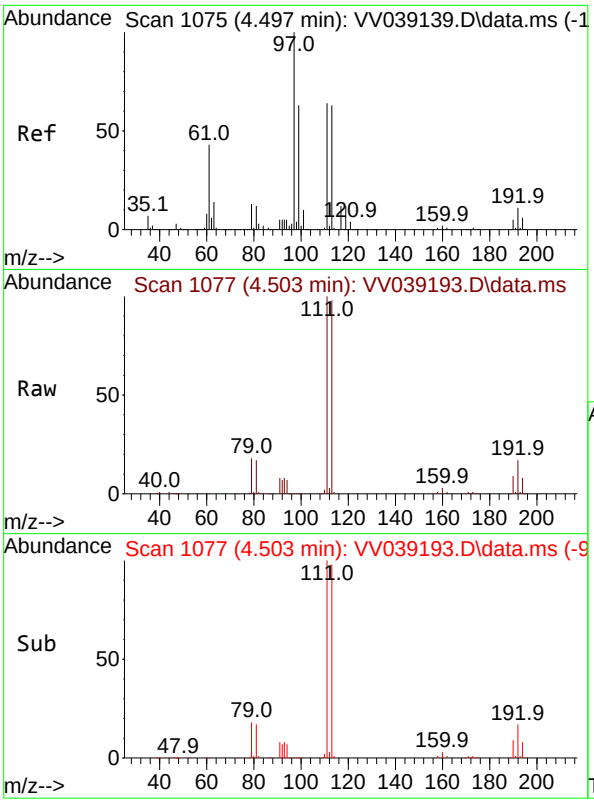




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VV039193.D
Acq: 25 Sep 2025 19:40

Tgt Ion:114 Resp: 956838

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.8 | 0.0 | 42.6 |
| 88 | 15.9 | 0.0 | 30.8 |



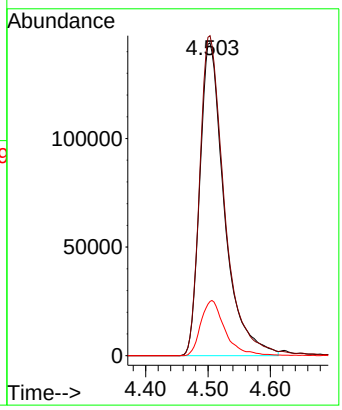


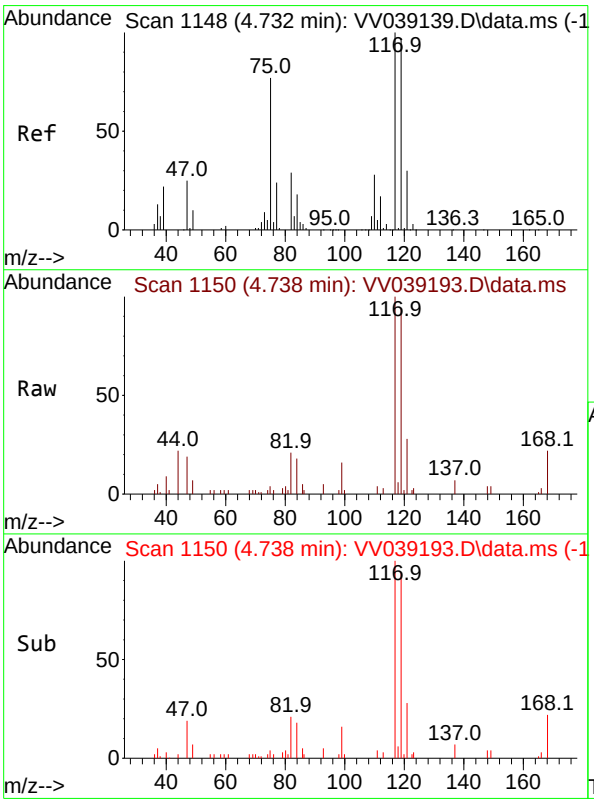

#35
Dibromofluoromethane
Concen: 50.975 ug/l
RT: 4.503 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039193.D
Acq: 25 Sep 2025 19:40

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-22-091825

Tgt Ion:113 Resp: 392109

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.5 | 82.4 | 123.6 |
| 192 | 17.6 | 13.8 | 20.8 |

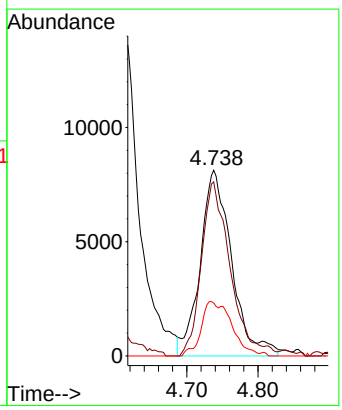


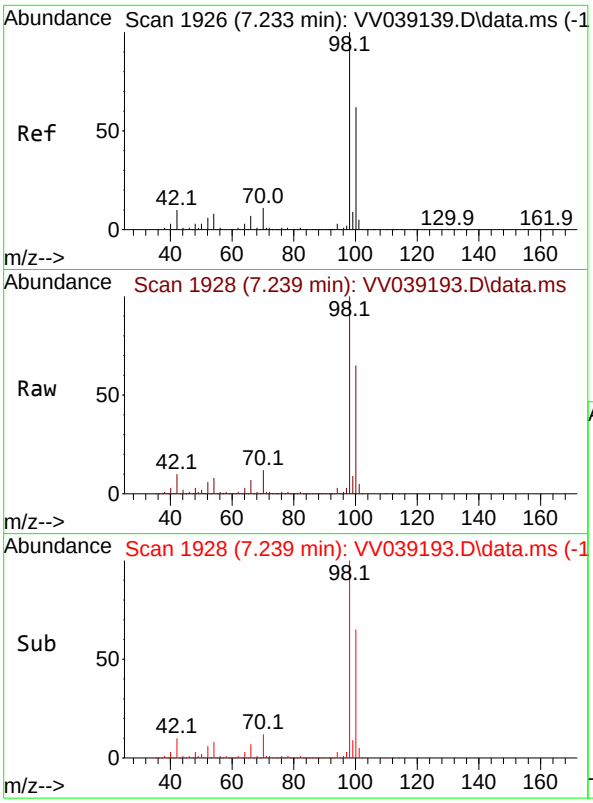




#38
Carbon Tetrachloride
Concen: 1.753 ug/l m
RT: 4.738 min Scan# 1150
Delta R.T. 0.006 min
Lab File: VV039193.D
Acq: 25 Sep 2025 19:40

Tgt Ion:117 Resp: 24918

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 93.7 | 77.2 | 115.8 |
| 121 | 28.5 | 24.2 | 36.2 |



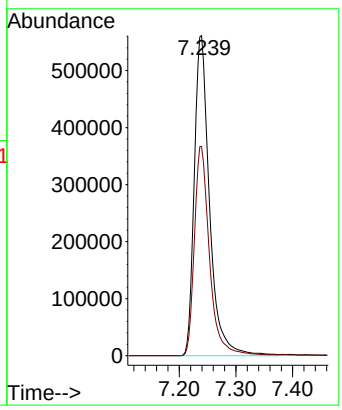


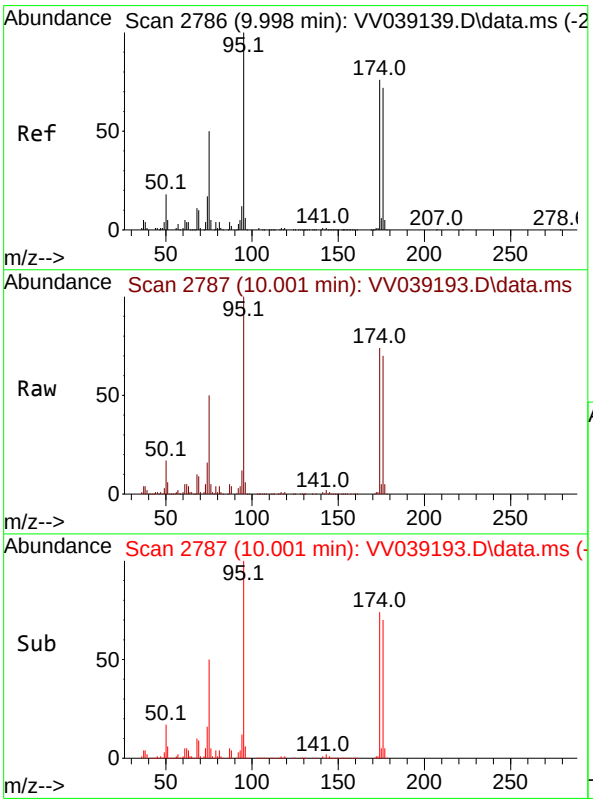

#50
Toluene-d8
Concen: 46.480 ug/l
RT: 7.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039193.D
Acq: 25 Sep 2025 19:40

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-22-091825

Tgt Ion: 98 Resp: 1050090

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.9 | 52.2 | 78.2 |

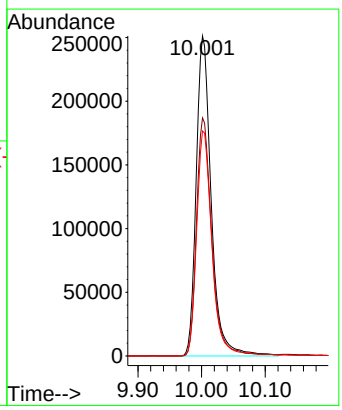


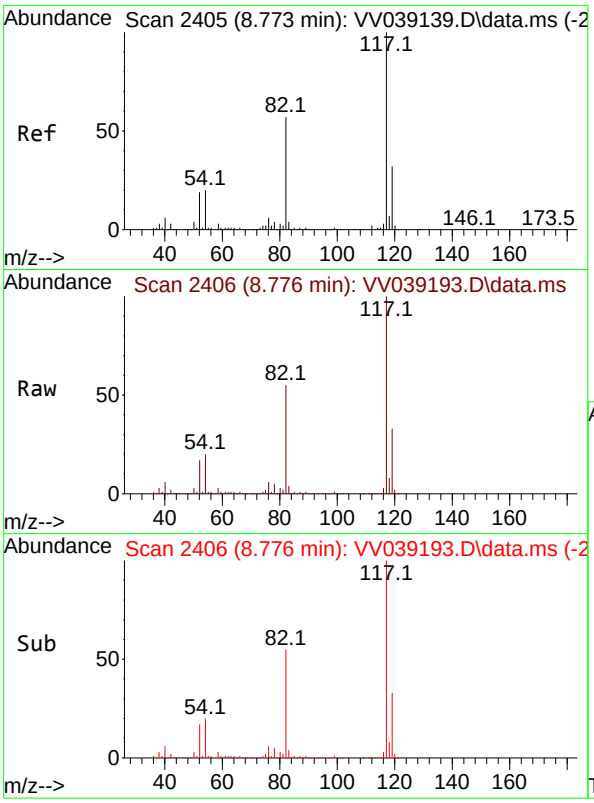




#62
4-Bromofluorobenzene
Concen: 44.327 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039193.D
Acq: 25 Sep 2025 19:40

Tgt Ion: 95 Resp: 412268

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 75.6 | 0.0 | 150.4 |
| 176 | 71.3 | 0.0 | 144.2 |



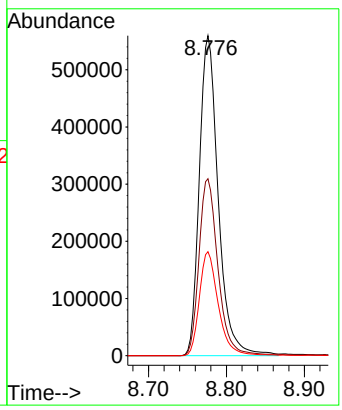


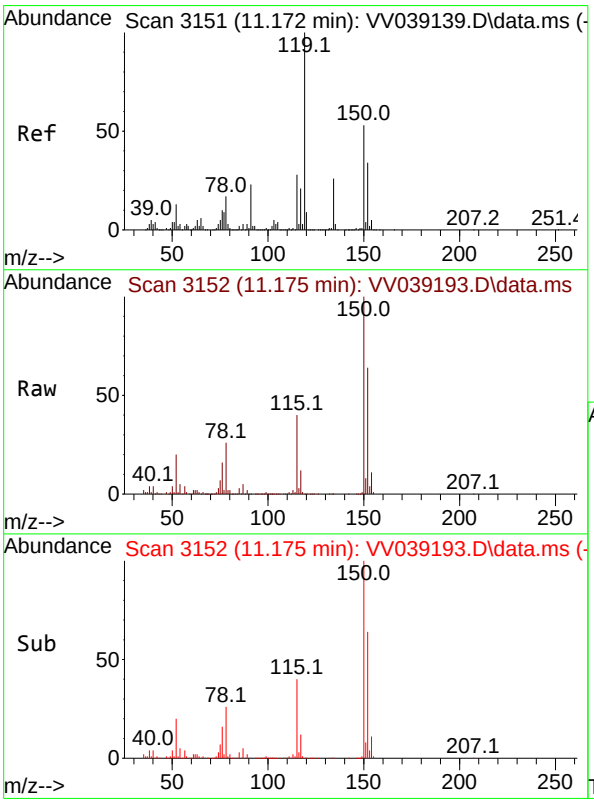

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039193.D
Acq: 25 Sep 2025 19:40

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-22-091825

Tgt Ion:117 Resp: 943207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 55.3 | 45.4 | 68.2 |
| 119 | 32.5 | 25.6 | 38.4 |

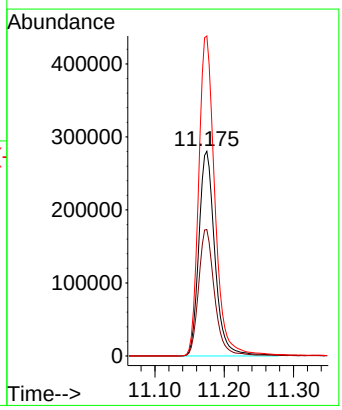



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039193.D
Acq: 25 Sep 2025 19:40

Tgt Ion:152 Resp: 451495

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 61.9 | 44.8 | 134.4 |
| 150 | 157.3 | 0.0 | 353.8 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039193.D
Acq On : 25 Sep 2025 19:40
Operator : SY/MD
Sample : Q3195-09
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 27 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-22-091825

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039193.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.288 | 994 | 1010 | 1029 | rBV4 | 13875 | 43721 | 1.54% | 0.263% |
| 2 | 4.503 | 1062 | 1077 | 1095 | rBV2 | 470422 | 1229519 | 43.20% | 7.392% |
| 3 | 4.600 | 1096 | 1107 | 1139 | rVB | 597797 | 1595162 | 56.04% | 9.591% |
| 4 | 4.944 | 1202 | 1214 | 1257 | rBV | 476169 | 1179001 | 41.42% | 7.089% |
| 5 | 5.532 | 1386 | 1397 | 1439 | rBV | 971036 | 2264736 | 79.57% | 13.616% |
| 6 | 7.239 | 1916 | 1928 | 1963 | rBV | 1445601 | 2732959 | 96.02% | 16.432% |
| 7 | 8.776 | 2394 | 2406 | 2439 | rBV | 1658867 | 2846331 | 100.00% | 17.113% |
| 8 | 10.001 | 2776 | 2787 | 2819 | rBV | 1183694 | 1979997 | 69.56% | 11.904% |
| 9 | 11.175 | 3138 | 3152 | 3189 | rBV | 1677940 | 2760928 | 97.00% | 16.600% |

Sum of corrected areas: 16632354

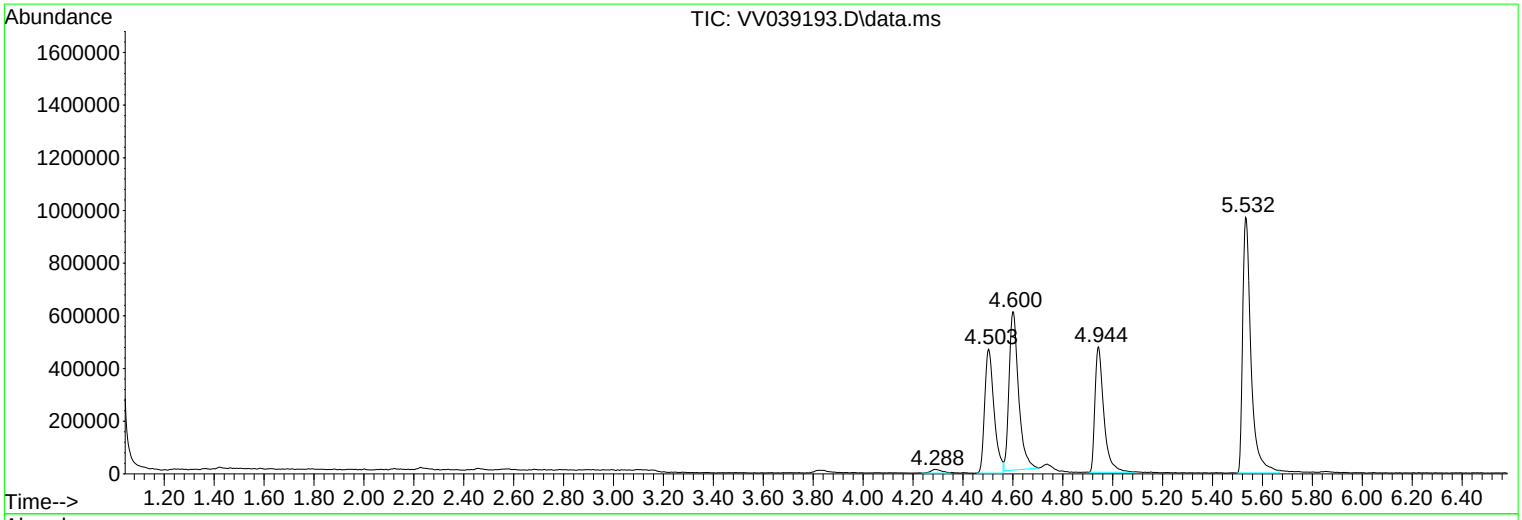
Sample Results: **VV039193.D**

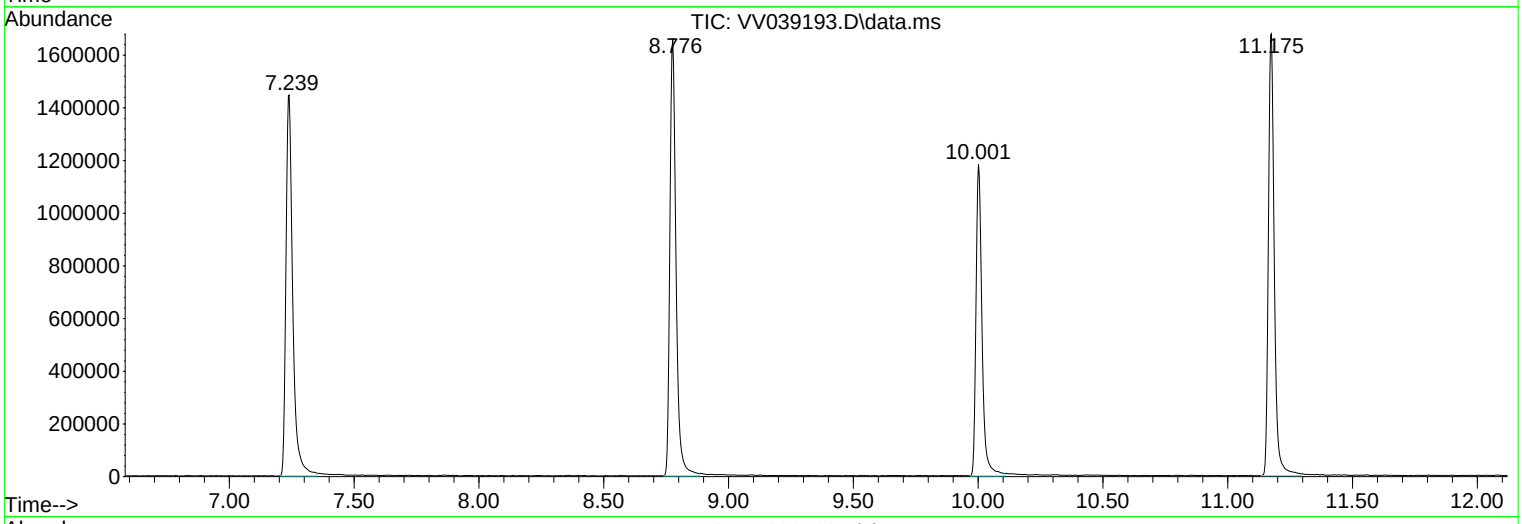
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039193.D
Acq On : 25 Sep 2025 19:40
Operator : SY/MD
Sample : Q3195-09
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 27 Sample Multiplier: 1

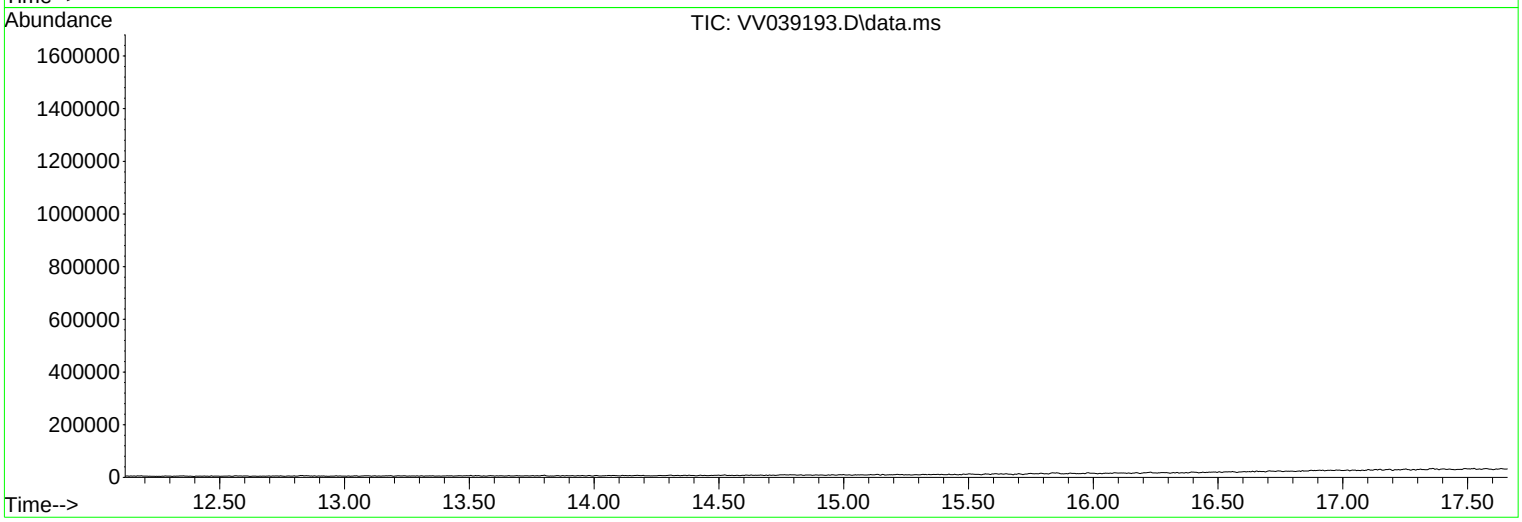
**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-22-091825

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039193.D
Acq On : 25 Sep 2025 19:40
Operator : SY/MD
Sample : Q3195-09
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 27 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-22-091825

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039193.D
Acq On : 25 Sep 2025 19:40
Operator : SY/MD
Sample : Q3195-09
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 27 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-22-091825

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/23/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-23-092325 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-10 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039194.D | 1 | 09/25/25 20:02 | VV092525 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.33 | U | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 14.3 | | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.63 | J | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 1.50 | U | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 0.27 | U | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 1.50 | U | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.25 | U | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.16 | U | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 2.60 | | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | U | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.14 | U | 0.14 | 1.00 | ug/L |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/23/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-23-092325 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-10 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039194.D | 1 | 09/25/25 20:02 | VV092525 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.15 | U | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | U | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | U | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.53 | U | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 55.5 | | 74 - 125 | 111% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.1 | | 75 - 124 | 100% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 46.5 | | 86 - 113 | 93% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 43.6 | | 77 - 121 | 87% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 519000 | 4.603 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 935000 | 5.535 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 918000 | 8.776 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 440000 | 11.172 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/23/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-23-092325 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-10 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039194.D | 1 | 09/25/25 20:02 | VV092525 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 000354-23-4 | Ethane, 1,2-dichloro-1,1,2-trifluo | 5.50 | J | | 1.92 | ug/L |

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

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

Quantitation Report (LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039194.D
Acq On : 25 Sep 2025 20:02
Operator : SY/MD
Sample : Q3195-10
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 28 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-23-092325

Quant Time: Sep 26 01:38:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

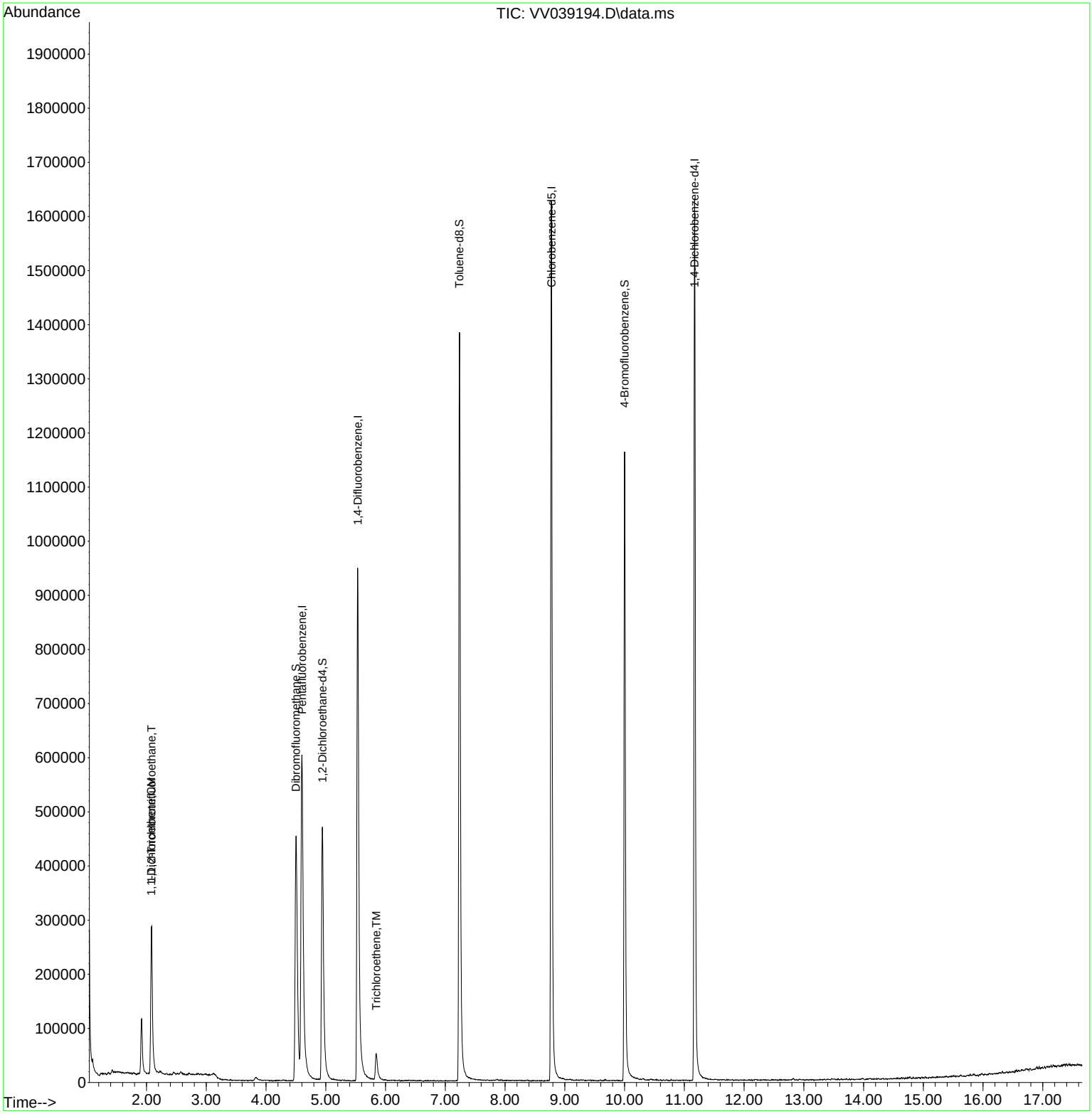
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.603 | 168 | 518728 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.535 | 114 | 934521 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.776 | 117 | 917520 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.172 | 152 | 439919 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.944 | 65 | 416831 | 55.522 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 111.040% | | | |
| 35) Dibromofluoromethane | 4.503 | 113 | 376755 | 50.148 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 100.300% | | | |
| 50) Toluene-d8 | 7.236 | 98 | 1025800 | 46.490 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 92.980% | | | |
| 62) 4-Bromofluorobenzene | 10.001 | 95 | 396383 | 43.637 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 87.280% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) 1,1,2-Trichlorotrifluo... | 2.082 | 101 | 116384 | 14.316 | ug/l | 98 |
| 12) 1,1-Dichloroethene | 2.079 | 96 | 4959 | 0.634 | ug/l # | 80 |
| 44) Trichloroethene | 5.847 | 130 | 22478 | 2.634 | ug/l | 97 |

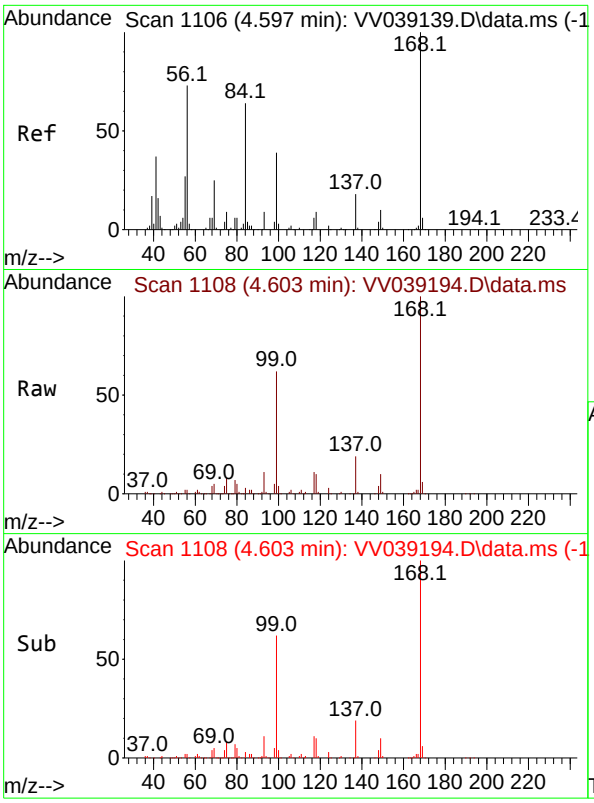
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039194.D
Acq On : 25 Sep 2025 20:02
Operator : SY/MD
Sample : Q3195-10
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 28 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-23-092325

Quant Time: Sep 26 01:38:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



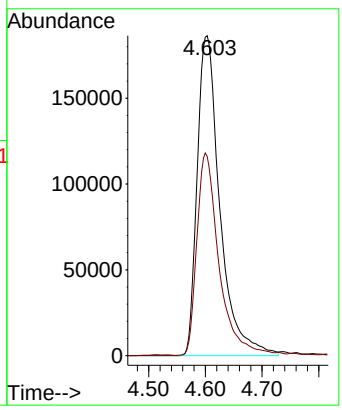


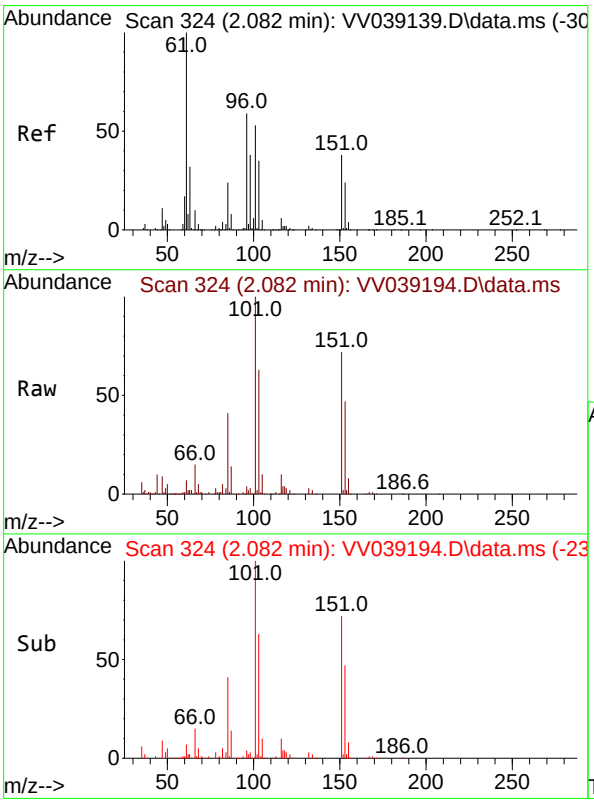

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039194.D
Acq: 25 Sep 2025 20:02

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-23-092325

Tgt Ion:168 Resp: 518728

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 62.2 | 49.6 | 74.4 |

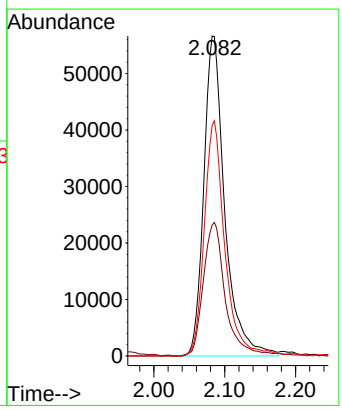


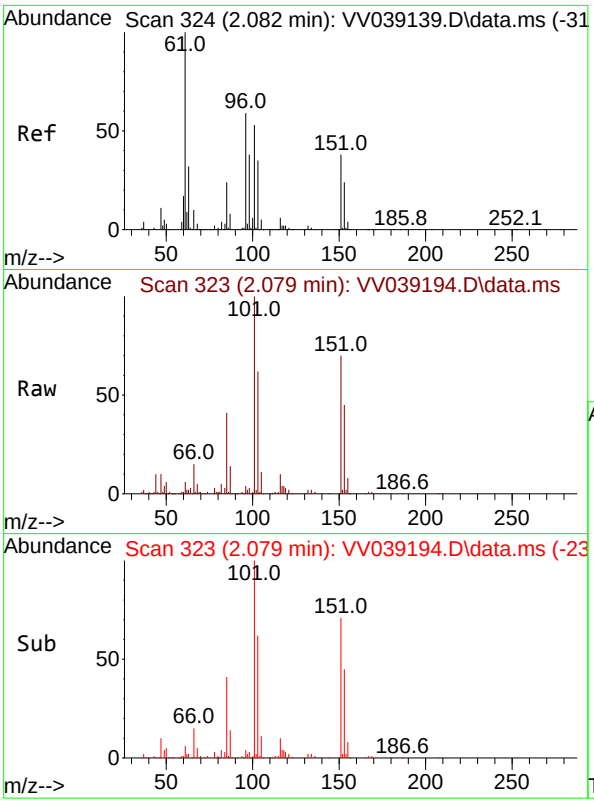




#9
1,1,2-Trichlorotrifluoroethane
Concen: 14.316 ug/l
RT: 2.082 min Scan# 324
Delta R.T. -0.000 min
Lab File: VV039194.D
Acq: 25 Sep 2025 20:02

Tgt Ion:101 Resp: 116384

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 44.0 | 36.2 | 54.2 |
| 151 | 72.0 | 56.3 | 84.5 |



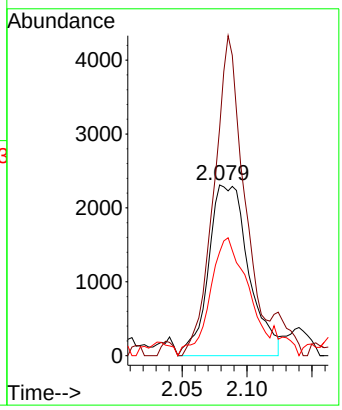


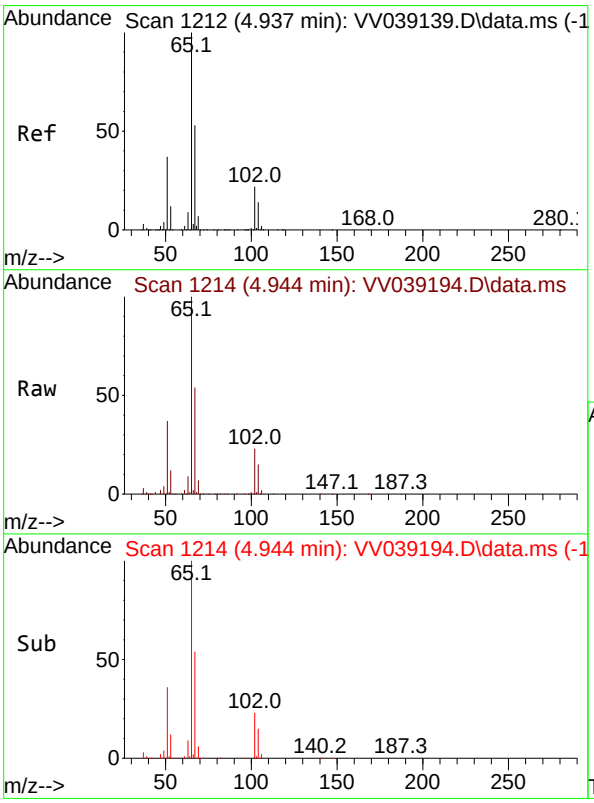

#12
1,1-Dichloroethene
Concen: 0.634 ug/l
RT: 2.079 min Scan# 3
Delta R.T. -0.003 min
Lab File: VV039194.D
Acq: 25 Sep 2025 20:02

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-23-092325

Tgt Ion: 96 Resp: 4959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 133.4 | 136.0 | 204.0# |
| 98 | 60.7 | 51.0 | 76.6 |

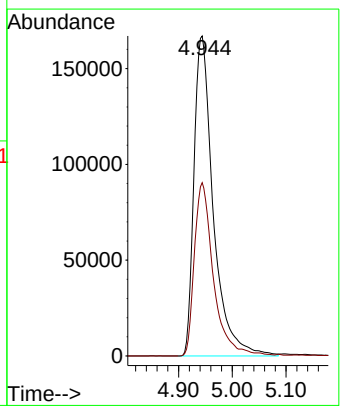


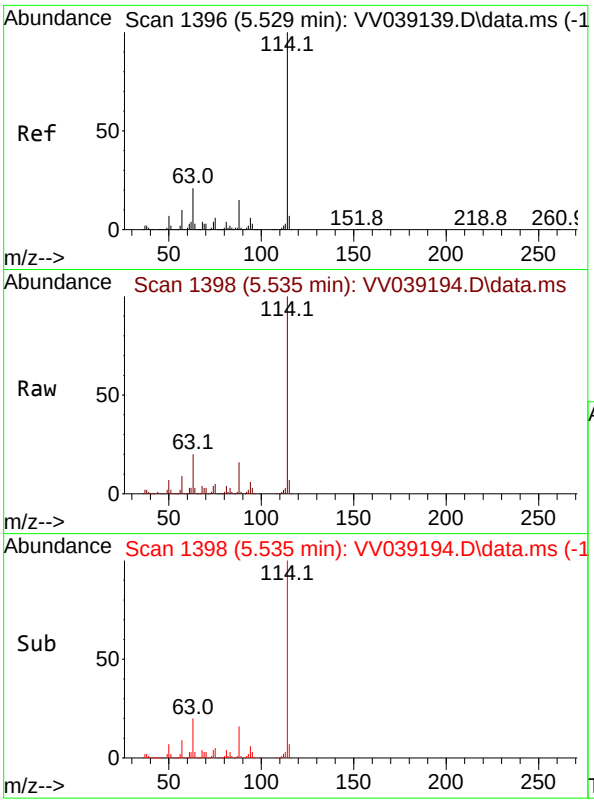




#33
1,2-Dichloroethane-d4
Concen: 55.522 ug/l
RT: 4.944 min Scan# 1214
Delta R.T. 0.006 min
Lab File: VV039194.D
Acq: 25 Sep 2025 20:02

Tgt Ion: 65 Resp: 416831

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.0 | 0.0 | 107.0 |



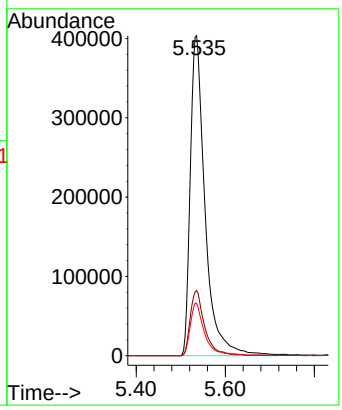


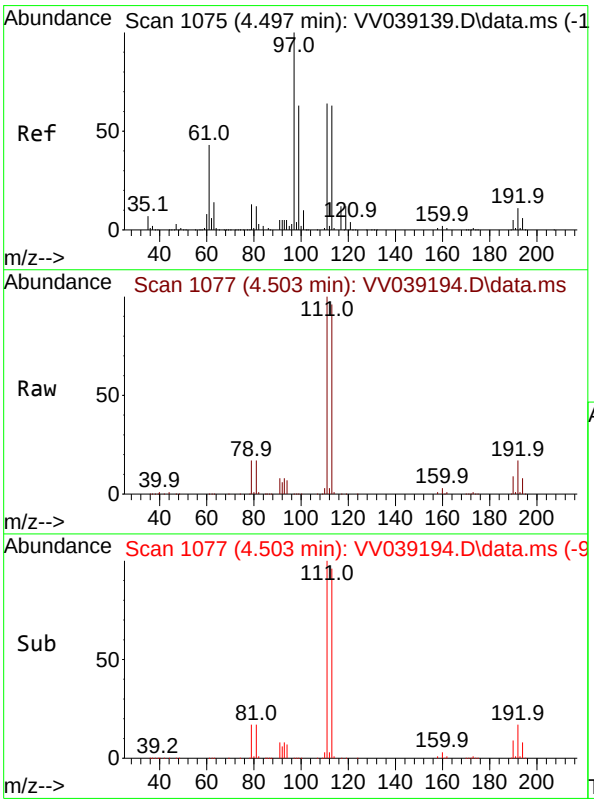

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039194.D
Acq: 25 Sep 2025 20:02

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-23-092325

Tgt Ion:114 Resp: 934521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.4 | 0.0 | 42.6 |
| 88 | 16.4 | 0.0 | 30.8 |

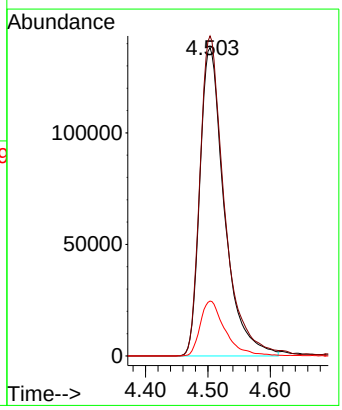


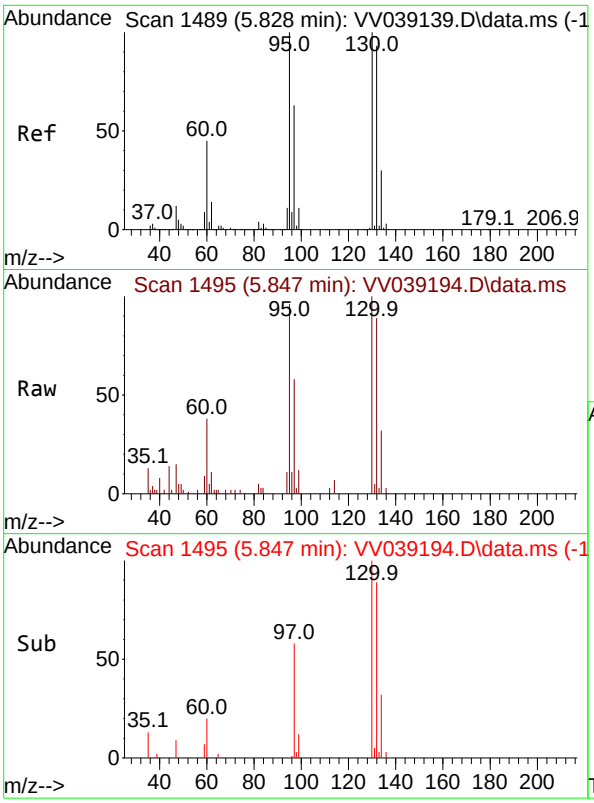




#35
Dibromofluoromethane
Concen: 50.148 ug/l
RT: 4.503 min Scan# 1077
Delta R.T. 0.006 min
Lab File: VV039194.D
Acq: 25 Sep 2025 20:02

Tgt Ion:113 Resp: 376755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 104.8 | 82.4 | 123.6 |
| 192 | 18.2 | 13.8 | 20.8 |



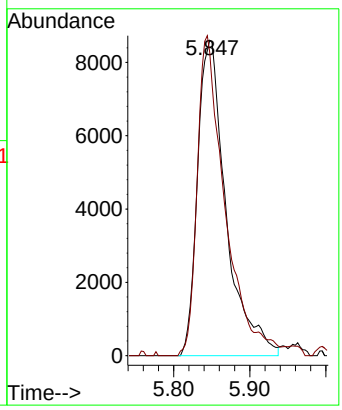


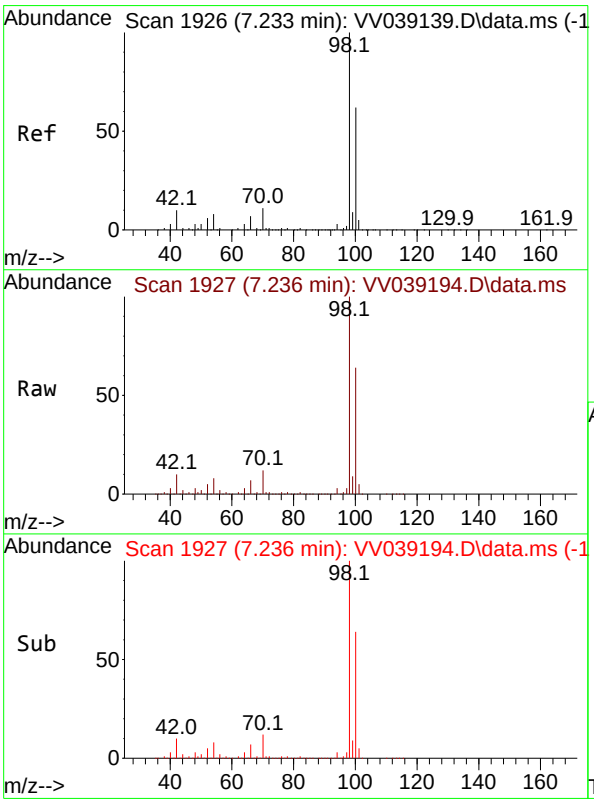

#44
Trichloroethene
Concen: 2.634 ug/l
RT: 5.847 min Scan# 14
Delta R.T. 0.019 min
Lab File: VV039194.D
Acq: 25 Sep 2025 20:02

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-23-092325

Tgt Ion:130 Resp: 22478

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 96.2 | 0.0 | 199.2 |

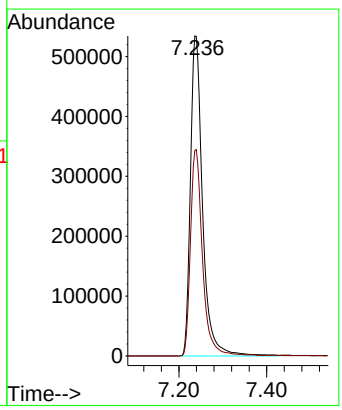


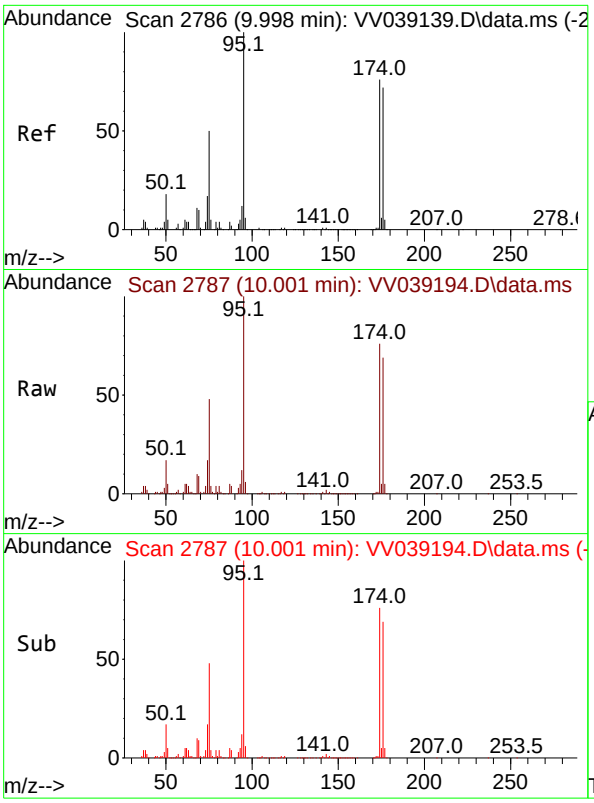




#50
Toluene-d8
Concen: 46.490 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.003 min
Lab File: VV039194.D
Acq: 25 Sep 2025 20:02

Tgt Ion: 98 Resp: 1025800

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.8 | 52.2 | 78.2 |



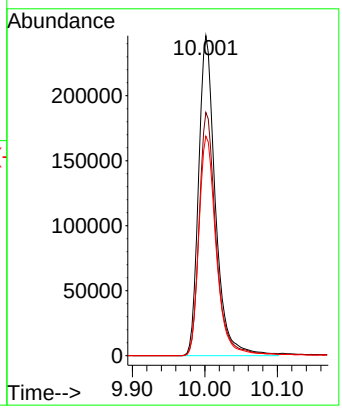


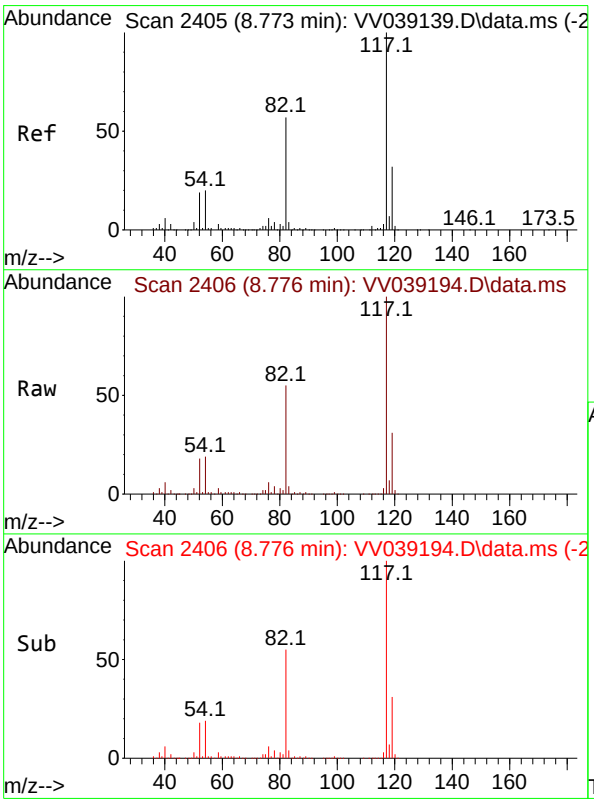

#62
4-Bromofluorobenzene
Concen: 43.637 ug/l
RT: 10.001 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039194.D
Acq: 25 Sep 2025 20:02

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-23-092325

Tgt Ion: 95 Resp: 396383

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 76.0 | 0.0 | 150.4 |
| 176 | 70.8 | 0.0 | 144.2 |

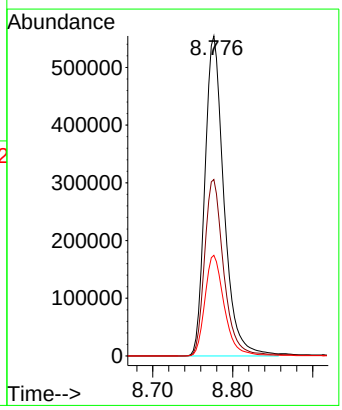


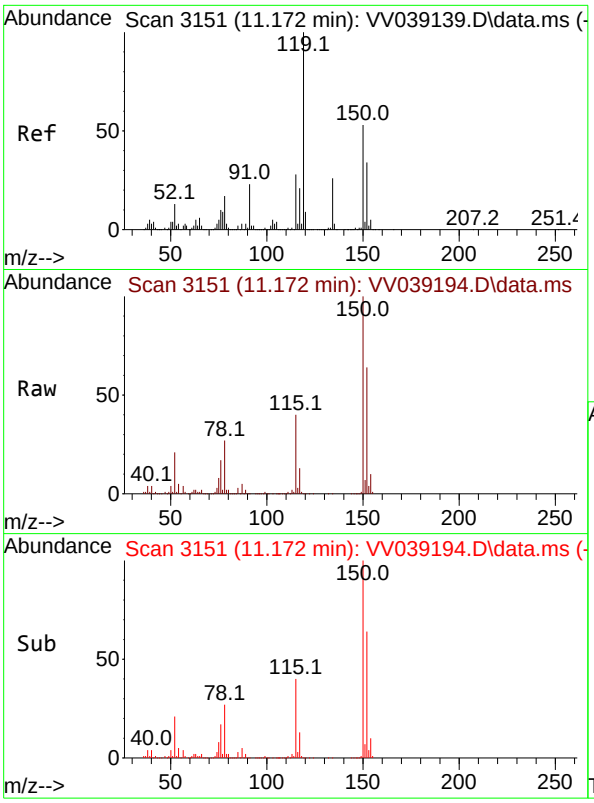




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039194.D
Acq: 25 Sep 2025 20:02

Tgt Ion:117 Resp: 917520

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 55.1 | 45.4 | 68.2 |
| 119 | 31.5 | 25.6 | 38.4 |



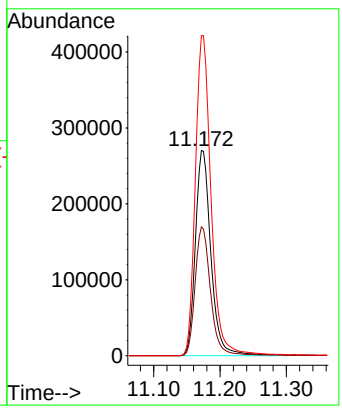



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039194.D
Acq: 25 Sep 2025 20:02

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-23-092325

Tgt Ion:152 Resp: 439919

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 62.1 | 44.8 | 134.4 |
| 150 | 158.3 | 0.0 | 353.8 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039194.D
Acq On : 25 Sep 2025 20:02
Operator : SY/MD
Sample : Q3195-10
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 28 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-23-092325

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039194.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.918 | 263 | 273 | 288 | rBV | 99924 | 181098 | 6.54% | 1.061% |
| 2 | 2.085 | 313 | 325 | 344 | rBV | 271267 | 543694 | 19.62% | 3.187% |
| 3 | 4.503 | 1059 | 1077 | 1095 | rBV | 452790 | 1195004 | 43.12% | 7.004% |
| 4 | 4.600 | 1096 | 1107 | 1149 | rVB | 595399 | 1644737 | 59.35% | 9.640% |
| 5 | 4.944 | 1202 | 1214 | 1258 | rBV | 466224 | 1156971 | 41.75% | 6.781% |
| 6 | 5.532 | 1385 | 1397 | 1436 | rBV | 947708 | 2189425 | 79.01% | 12.832% |
| 7 | 5.844 | 1483 | 1494 | 1514 | rBV3 | 47614 | 117713 | 4.25% | 0.690% |
| 8 | 7.236 | 1915 | 1927 | 1965 | rBV | 1383046 | 2666853 | 96.24% | 15.630% |
| 9 | 8.776 | 2395 | 2406 | 2446 | rBV | 1624795 | 2771158 | 100.00% | 16.242% |
| 10 | 10.001 | 2777 | 2787 | 2821 | rBV | 1161223 | 1917977 | 69.21% | 11.241% |
| 11 | 11.172 | 3140 | 3151 | 3183 | rBV | 1628752 | 2677265 | 96.61% | 15.691% |

Sum of corrected areas: 17061895

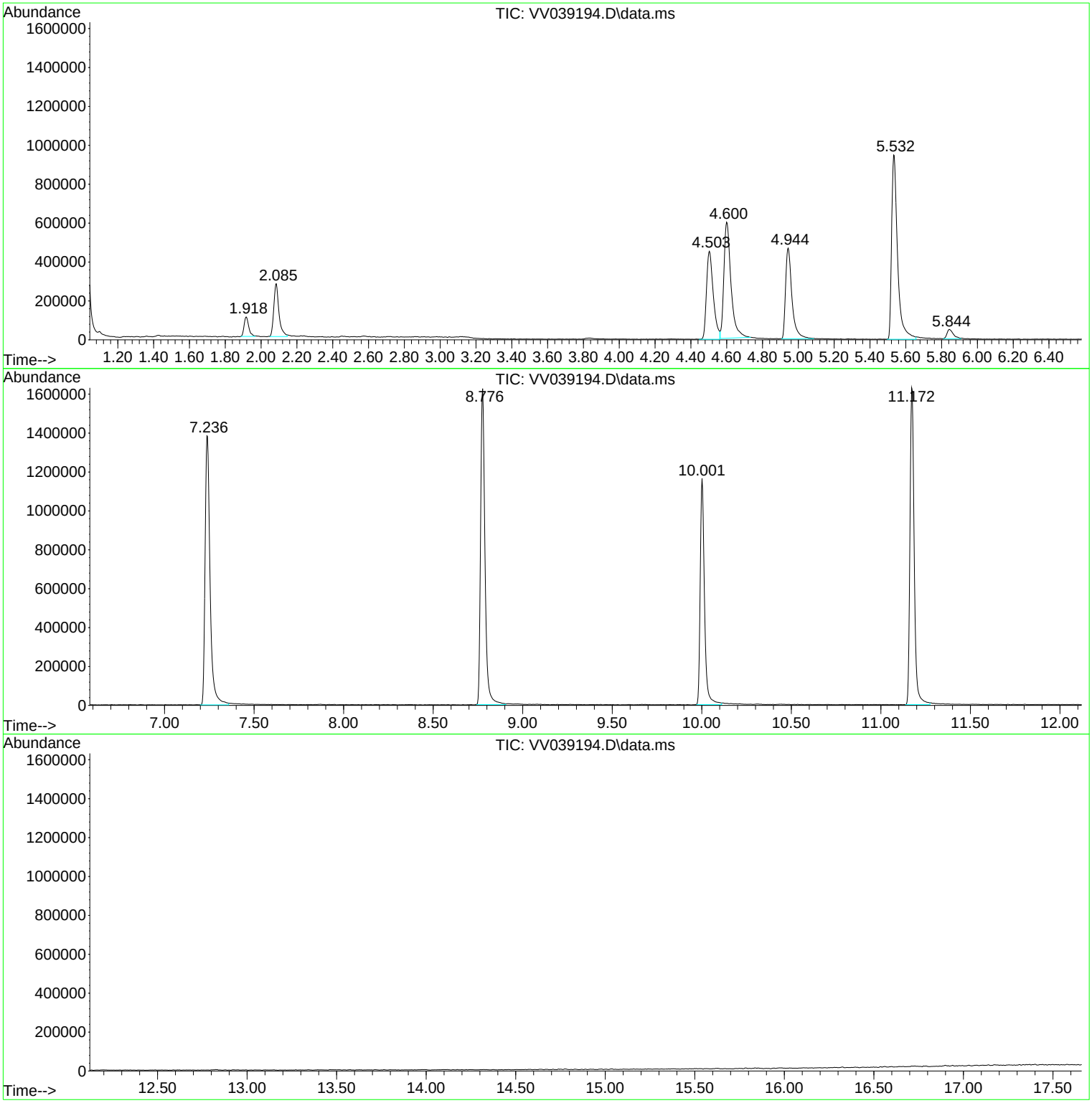
Sample Results: **VV039194.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039194.D
Acq On : 25 Sep 2025 20:02
Operator : SY/MD
Sample : Q3195-10
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 28 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-23-092325

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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



```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039194.D
Acq On    : 25 Sep 2025  20:02
Operator  : SY/MD
Sample    : Q3195-10
Misc      : 5.0mL/MSVOA_V/WATER
ALS Vial  : 28   Sample Multiplier: 1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title  : SW846 8260

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

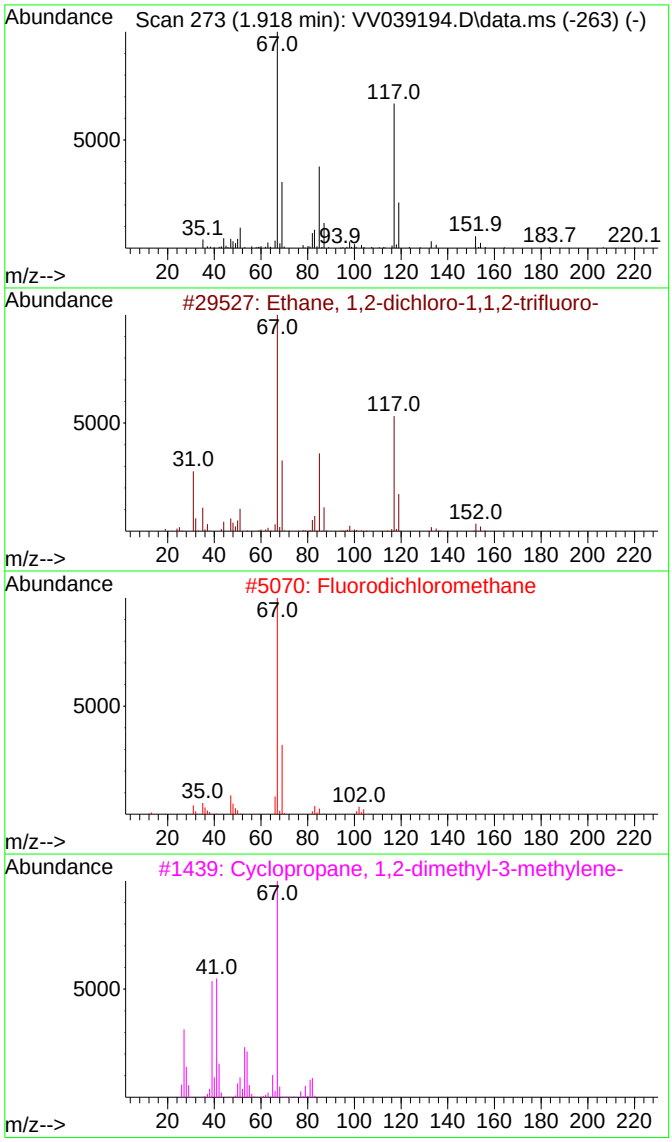
**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-23-092325

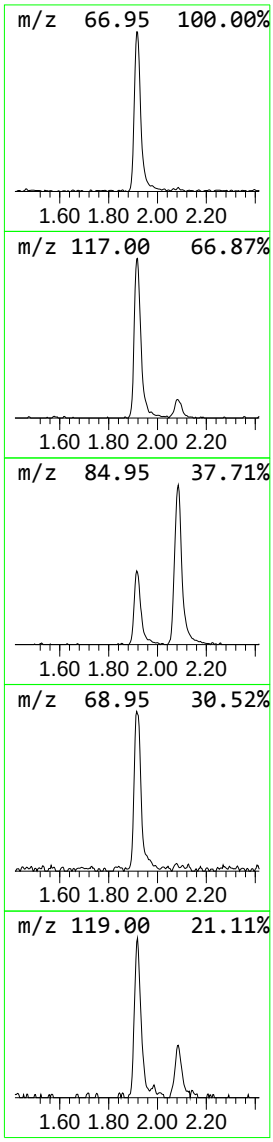
**********

Peak Number 1 Ethane, 1,2-dichloro-1,1,2-... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.918 | 5.51 ug/l | 181098 | Pentafluorobenzene | 4.603 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Ethane, 1,2-dichloro-1,1,2-trifl... | 152 | C2HCl2F3 | 000354-23-4 | 90 |
| 2 | Fluorodichloromethane | 102 | CHCl2F | 000075-43-4 | 32 |
| 3 | Cyclopropane, 1,2-dimethyl-3-met... | 82 | C6H10 | 062338-02-7 | 25 |
| 4 | 1-Bromo-2-chloro-1,1,2-trifluoro... | 196 | C2HBrClF3 | 000354-06-3 | 25 |
| 5 | 1,4-Pentadiene, 3-methyl- | 82 | C6H10 | 001115-08-8 | 9 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039194.D
Acq On : 25 Sep 2025 20:02
Operator : SY/MD
Sample : Q3195-10
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 28 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-23-092325

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Ethane, 1,2-dic... | 1.918 | 5.5 | ug/l | 181098 | 1 | 4.603 | 1644740 | 50.0 |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/19/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-24-091925 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-11 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039195.D | 1 | 09/25/25 20:25 | VV092525 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 1.10 | | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.33 | U | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 1.10 | | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 1.50 | U | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 0.27 | U | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 1.50 | U | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.35 | J | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.16 | U | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 1.00 | | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | U | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.14 | U | 0.14 | 1.00 | ug/L |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/19/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-24-091925 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-11 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039195.D | 1 | 09/25/25 20:25 | VV092525 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.15 | U | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.34 | J | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | U | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | U | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.53 | U | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 55.6 | | 74 - 125 | 111% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 51.5 | | 75 - 124 | 103% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 46.2 | | 86 - 113 | 92% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 44.4 | | 77 - 121 | 89% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 515000 | 4.6 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 929000 | 5.535 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 926000 | 8.776 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 443000 | 11.172 | | | |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/19/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-24-091925 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-11 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039195.D | 1 | 09/25/25 20:25 | VV092525 |

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039195.D
Acq On : 25 Sep 2025 20:25
Operator : SY/MD
Sample : Q3195-11
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 29 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-24-091925

Quant Time: Sep 26 01:39:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

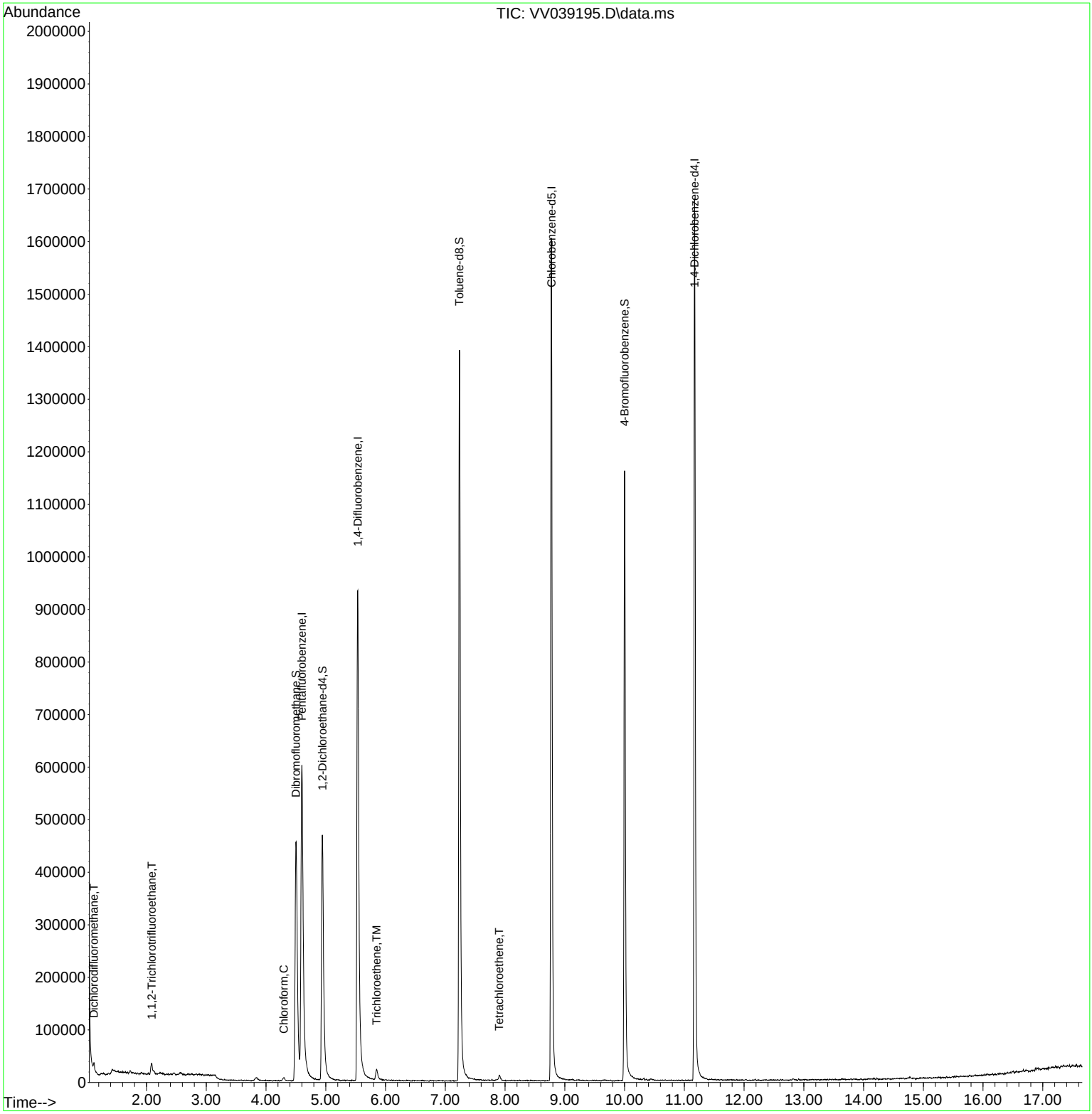
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.600 | 168 | 515327 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.535 | 114 | 928629 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.776 | 117 | 925762 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.172 | 152 | 442595 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.944 | 65 | 414441 | 55.568 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 111.140% | | | |
| 35) Dibromofluoromethane | 4.503 | 113 | 384300 | 51.477 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 102.960% | | | |
| 50) Toluene-d8 | 7.236 | 98 | 1012096 | 46.160 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 92.320% | | | |
| 62) 4-Bromofluorobenzene | 10.002 | 95 | 401201 | 44.448 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 88.900% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.121 | 85 | 9372 | 1.149 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 2.089 | 101 | 8698 | 1.077 | ug/l | 99 |
| 30) Chloroform | 4.298 | 83 | 5926 | 0.349 | ug/l # | 83 |
| 44) Trichloroethene | 5.851 | 130 | 8633 | 1.018 | ug/l | 92 |
| 64) Tetrachloroethene | 7.902 | 164 | 2650 | 0.342 | ug/l # | 79 |

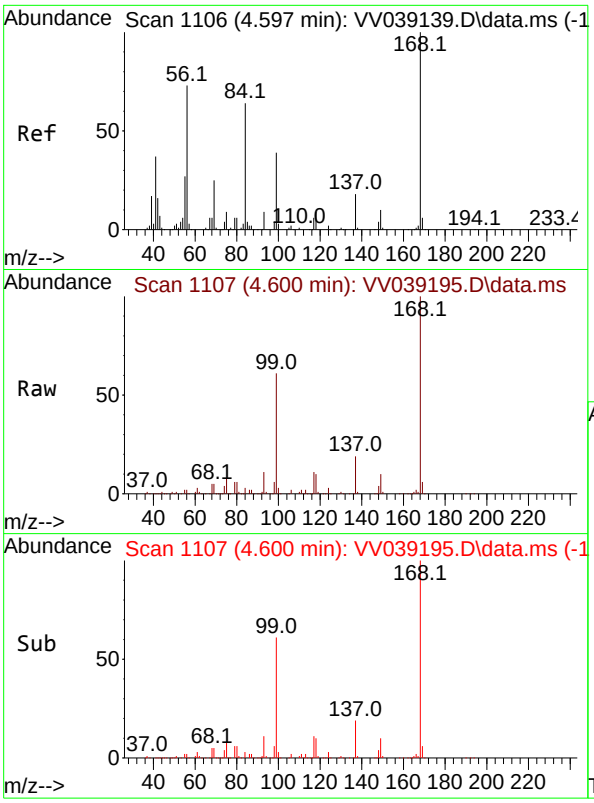
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039195.D
Acq On : 25 Sep 2025 20:25
Operator : SY/MD
Sample : Q3195-11
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 29 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-24-091925

Quant Time: Sep 26 01:39:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



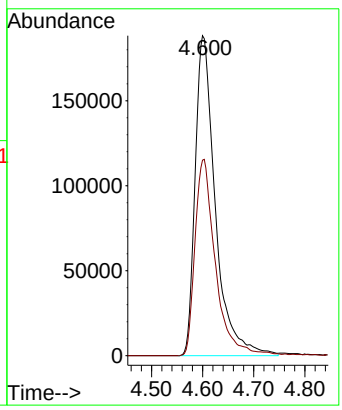


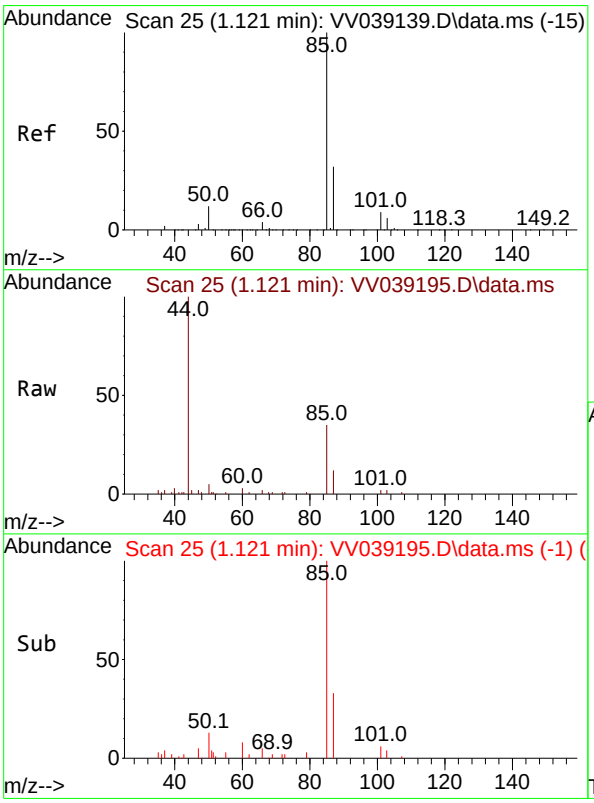

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039195.D
Acq: 25 Sep 2025 20:25

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-24-091925

Tgt Ion:168 Resp: 515327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 61.1 | 49.6 | 74.4 |

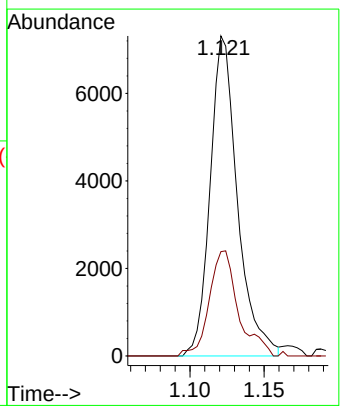


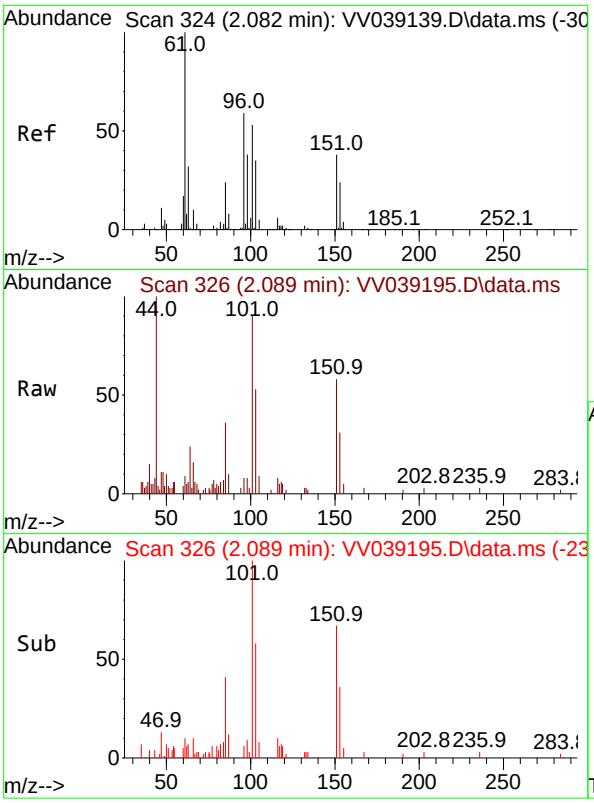




#2
Dichlorodifluoromethane
Concen: 1.149 ug/l
RT: 1.121 min Scan# 25
Delta R.T. 0.000 min
Lab File: VV039195.D
Acq: 25 Sep 2025 20:25

Tgt Ion: 85 Resp: 9372

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.6 | 16.0 | 47.9 |



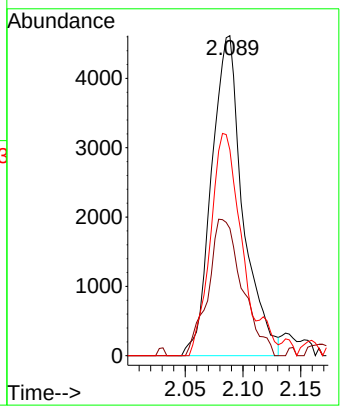


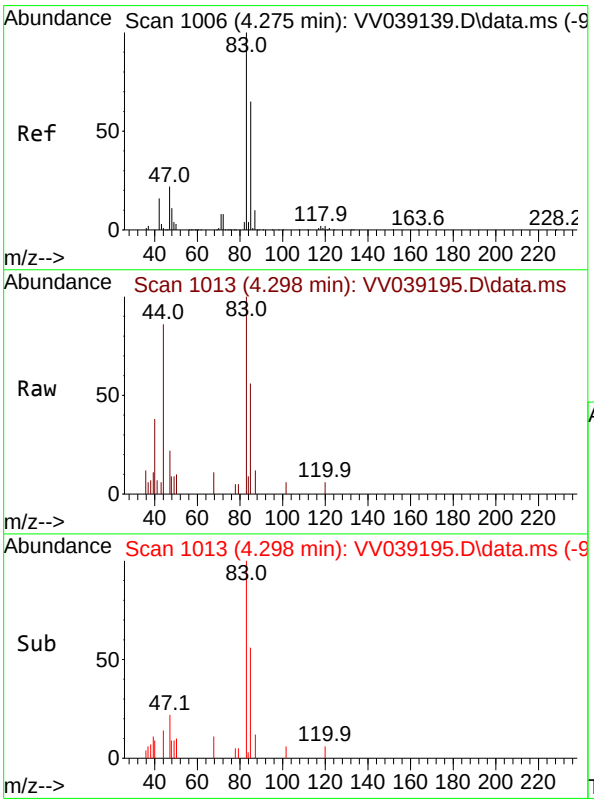

#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.077 ug/l
RT: 2.089 min Scan# 3
Delta R.T. 0.006 min
Lab File: VV039195.D
Acq: 25 Sep 2025 20:25

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-24-091925

Tgt Ion:101 Resp: 8698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 46.4 | 36.2 | 54.2 |
| 151 | 70.7 | 56.3 | 84.5 |

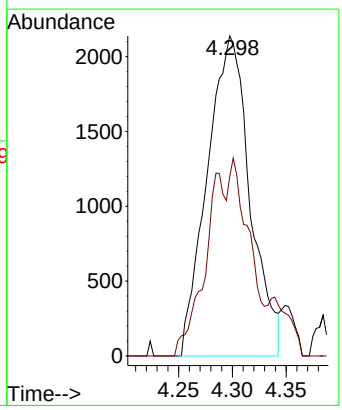


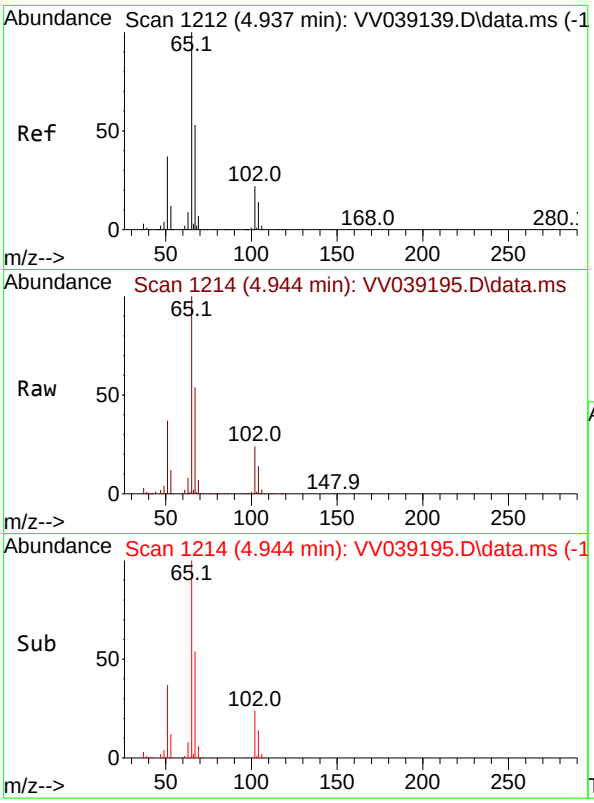




#30
Chloroform
Concen: 0.349 ug/l
RT: 4.298 min Scan# 1013
Delta R.T. 0.023 min
Lab File: VV039195.D
Acq: 25 Sep 2025 20:25

Tgt Ion: 83 Resp: 5926

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 51.3 | 52.1 | 78.1# |



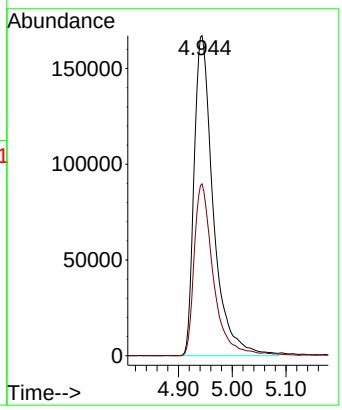


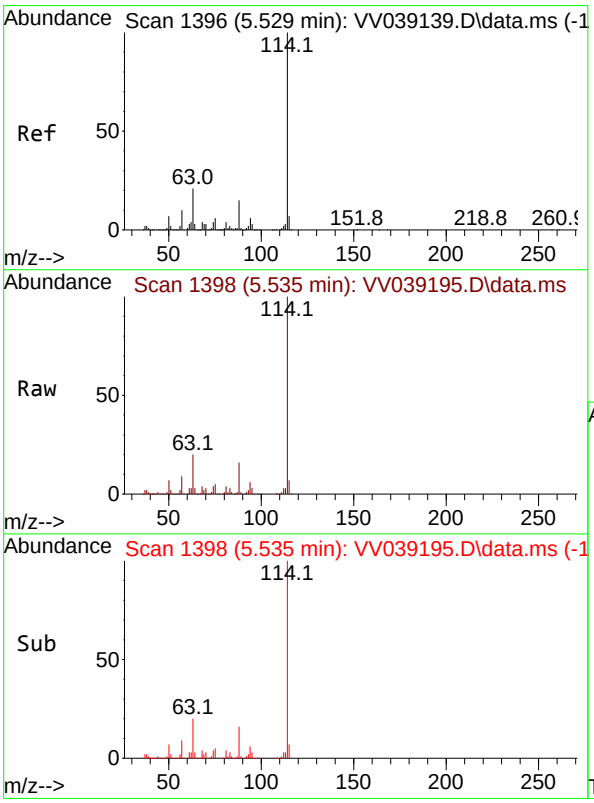

#33
1,2-Dichloroethane-d4
Concen: 55.568 ug/l
RT: 4.944 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039195.D
Acq: 25 Sep 2025 20:25

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-24-091925

Tgt Ion: 65 Resp: 414441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.2 | 0.0 | 107.0 |

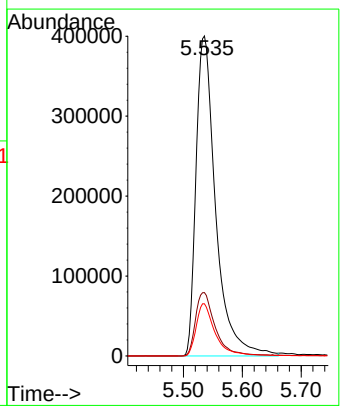


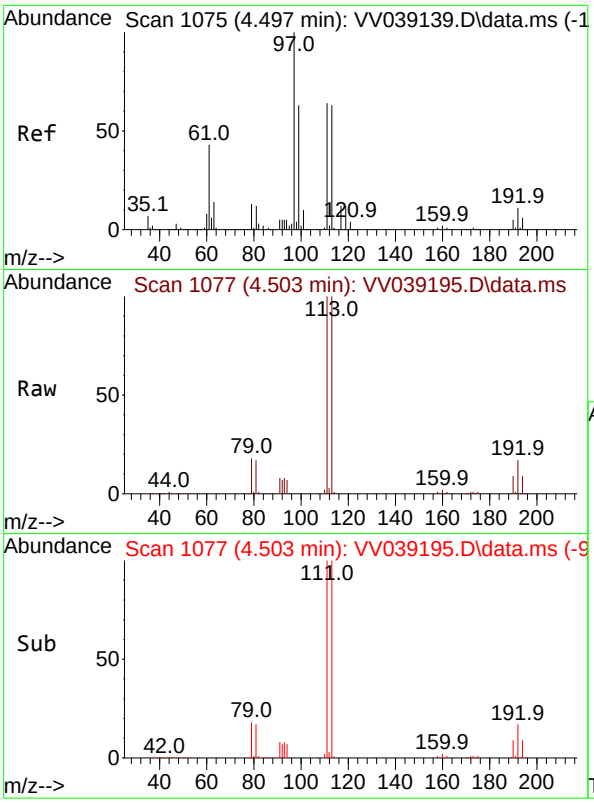




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VV039195.D
Acq: 25 Sep 2025 20:25

Tgt Ion:114 Resp: 928629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.8 | 0.0 | 42.6 |
| 88 | 16.3 | 0.0 | 30.8 |



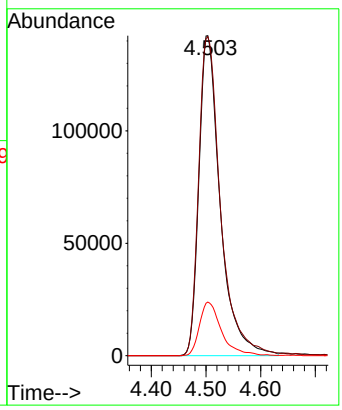


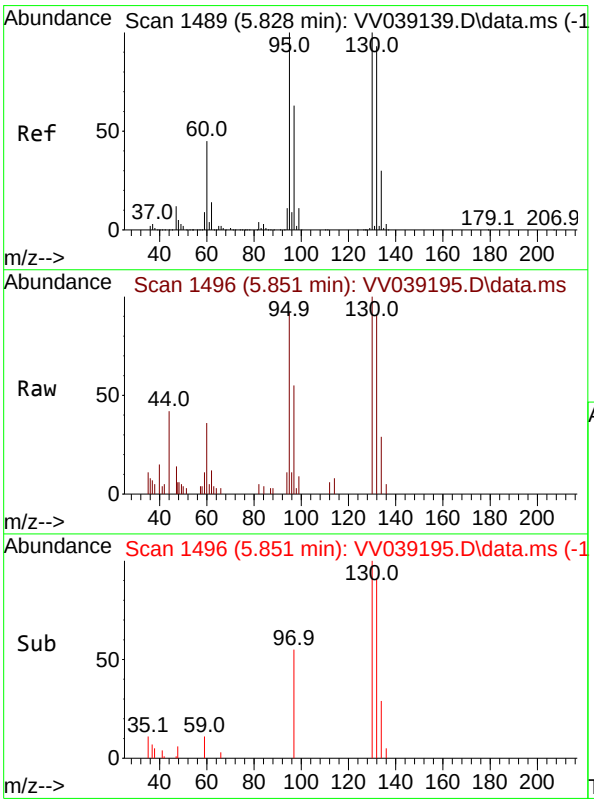

#35
Dibromofluoromethane
Concen: 51.477 ug/l
RT: 4.503 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039195.D
Acq: 25 Sep 2025 20:25

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-24-091925

Tgt Ion:113 Resp: 384300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.8 | 82.4 | 123.6 |
| 192 | 17.3 | 13.8 | 20.8 |

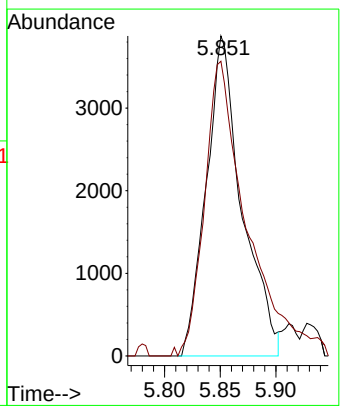


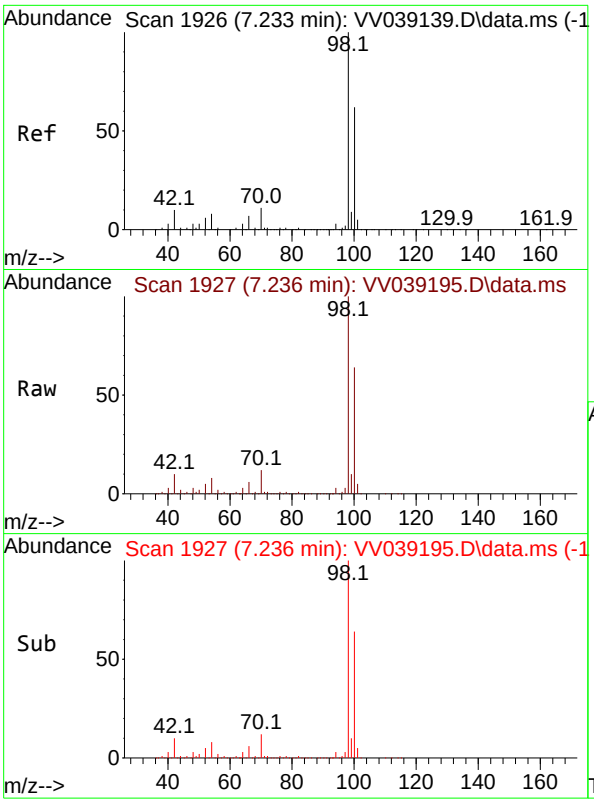




#44
Trichloroethene
Concen: 1.018 ug/l
RT: 5.851 min Scan# 1496
Delta R.T. 0.023 min
Lab File: VV039195.D
Acq: 25 Sep 2025 20:25

Tgt Ion:130 Resp: 8633

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 92.1 | 0.0 | 199.2 |



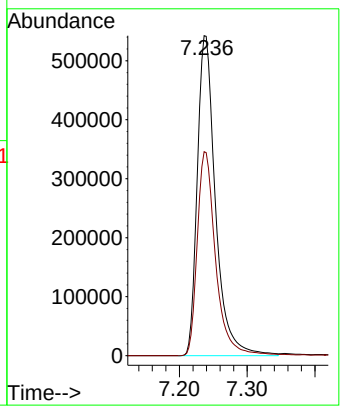


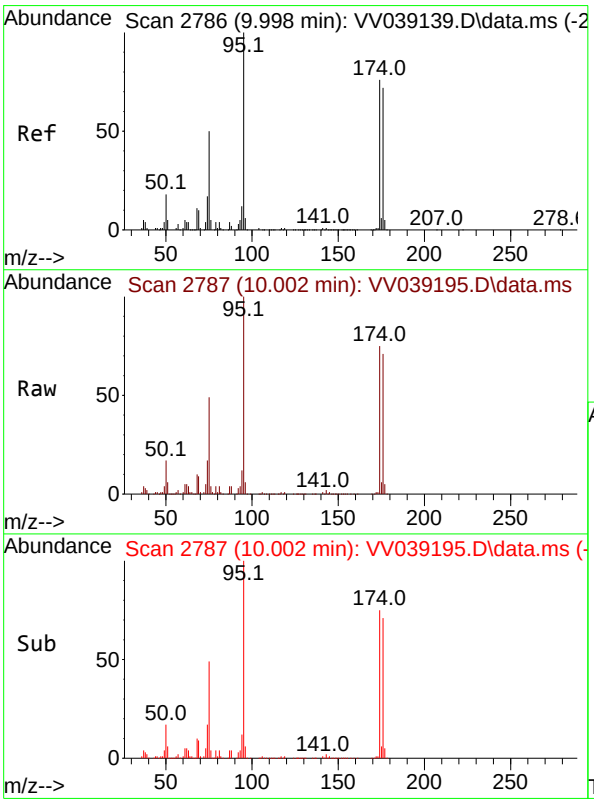

#50
Toluene-d8
Concen: 46.160 ug/l
RT: 7.236 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039195.D
Acq: 25 Sep 2025 20:25

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-24-091925

Tgt Ion: 98 Resp: 1012096

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.6 | 52.2 | 78.2 |

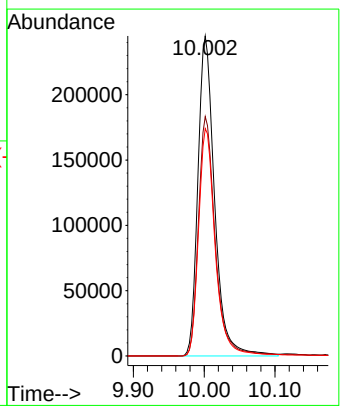


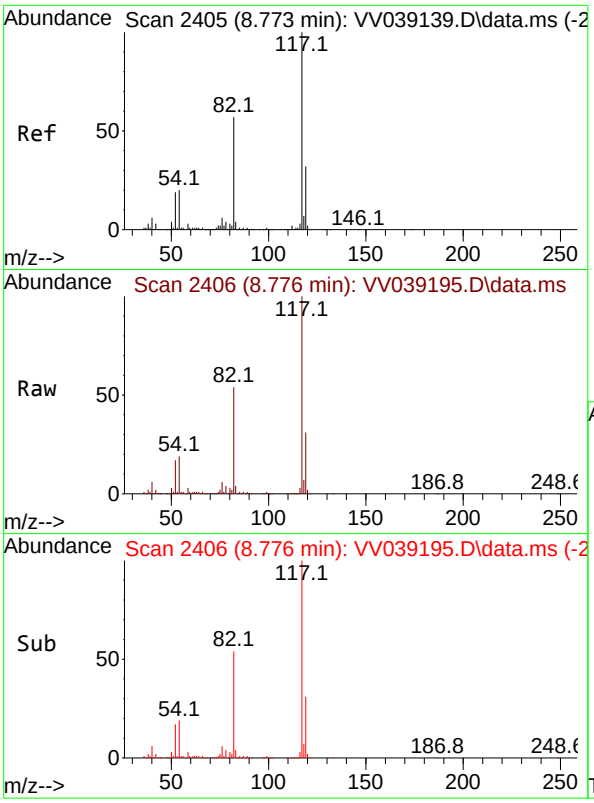




#62
4-Bromofluorobenzene
Concen: 44.448 ug/l
RT: 10.002 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039195.D
Acq: 25 Sep 2025 20:25

Tgt Ion: 95 Resp: 401201

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 75.4 | 0.0 | 150.4 |
| 176 | 71.2 | 0.0 | 144.2 |



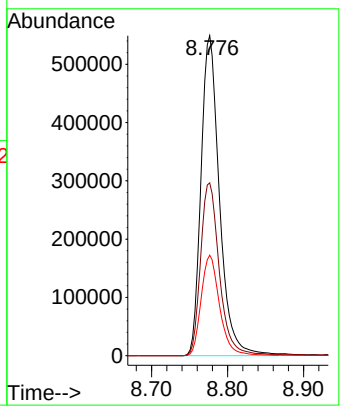


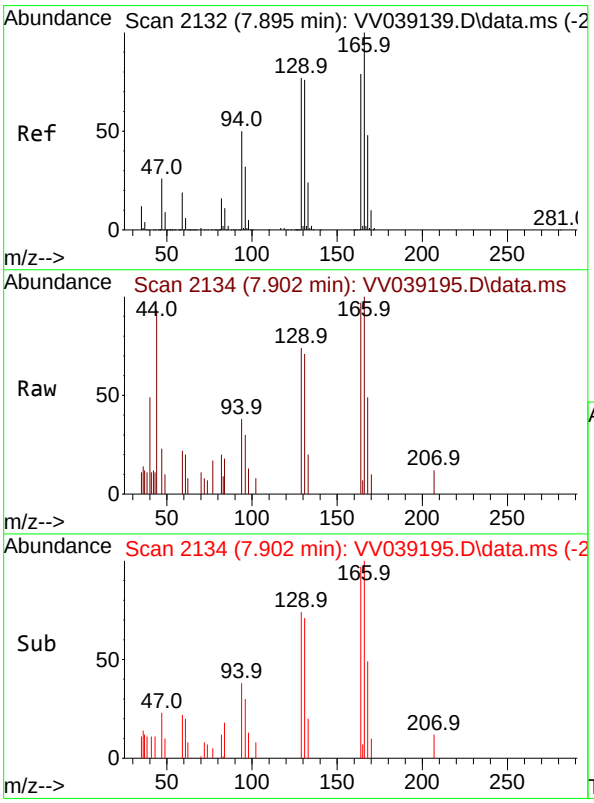

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039195.D
Acq: 25 Sep 2025 20:25

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-24-091925

Tgt Ion:117 Resp: 925762

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.0 | 45.4 | 68.2 |
| 119 | 31.4 | 25.6 | 38.4 |

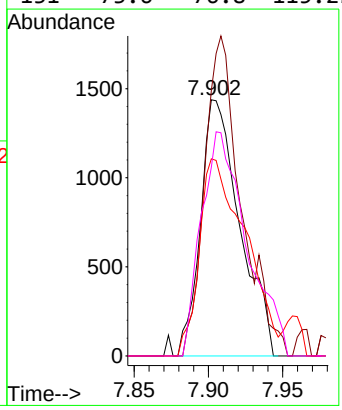


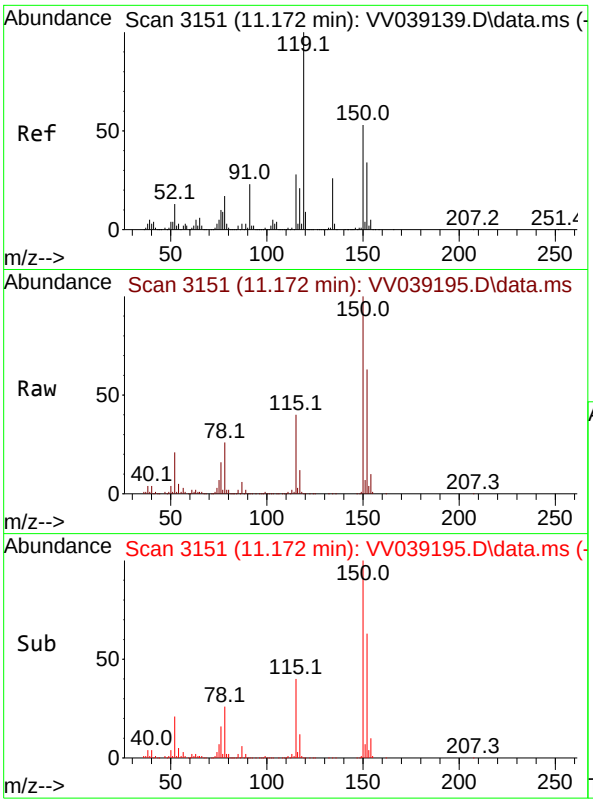




#64
Tetrachloroethene
Concen: 0.342 ug/l
RT: 7.902 min Scan# 2134
Delta R.T. 0.006 min
Lab File: VV039195.D
Acq: 25 Sep 2025 20:25

Tgt Ion:164 Resp: 2650

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 103.5 | 101.6 | 152.4 |
| 129 | 76.9 | 78.5 | 117.7# |
| 131 | 73.6 | 76.8 | 115.2# |



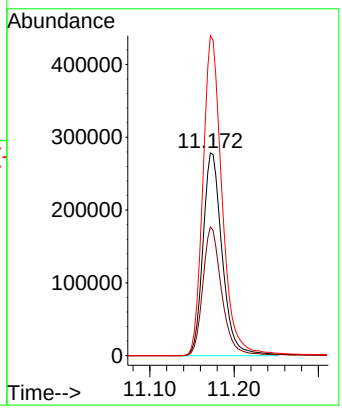



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039195.D
Acq: 25 Sep 2025 20:25

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-24-091925

Tgt Ion:152 Resp: 442595

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 62.3 | 44.8 | 134.4 |
| 150 | 158.9 | 0.0 | 353.8 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039195.D
Acq On : 25 Sep 2025 20:25
Operator : SY/MD
Sample : Q3195-11
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 29 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-24-091925

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039195.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.085 | 315 | 325 | 335 | rBV4 | 21295 | 43944 | 1.59% | 0.270% |
| 2 | 4.503 | 1061 | 1077 | 1095 | rBV | 454943 | 1196848 | 43.32% | 7.357% |
| 3 | 4.600 | 1096 | 1107 | 1141 | rVB | 589999 | 1595403 | 57.75% | 9.807% |
| 4 | 4.944 | 1200 | 1214 | 1248 | rBV | 465775 | 1157558 | 41.90% | 7.115% |
| 5 | 5.535 | 1385 | 1398 | 1437 | rBV | 932081 | 2186010 | 79.12% | 13.437% |
| 6 | 5.851 | 1486 | 1496 | 1508 | rBV7 | 19114 | 42561 | 1.54% | 0.262% |
| 7 | 7.236 | 1915 | 1927 | 1962 | rBV | 1390762 | 2645954 | 95.77% | 16.265% |
| 8 | 8.776 | 2394 | 2406 | 2440 | rBV | 1603308 | 2762747 | 100.00% | 16.982% |
| 9 | 10.002 | 2774 | 2787 | 2825 | rBV | 1160654 | 1935358 | 70.05% | 11.897% |
| 10 | 11.172 | 3140 | 3151 | 3187 | rBV | 1677583 | 2701846 | 97.80% | 16.608% |

Sum of corrected areas: 16268229

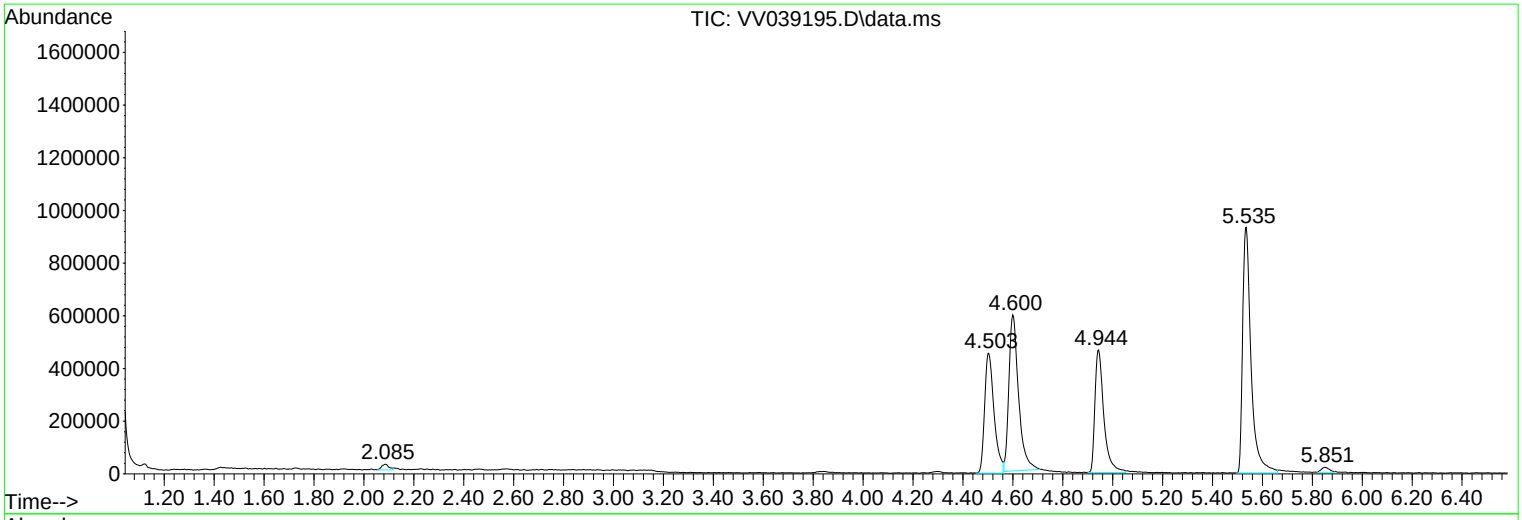
Sample Results: **VV039195.D**

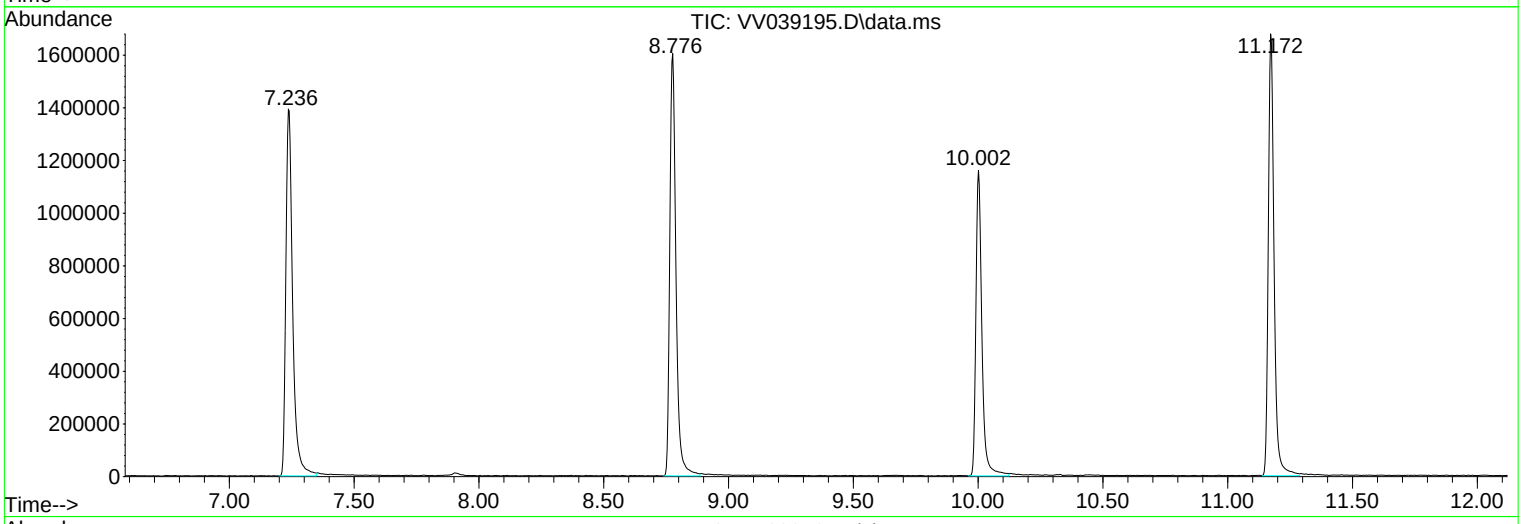
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039195.D
Acq On : 25 Sep 2025 20:25
Operator : SY/MD
Sample : Q3195-11
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 29 Sample Multiplier: 1

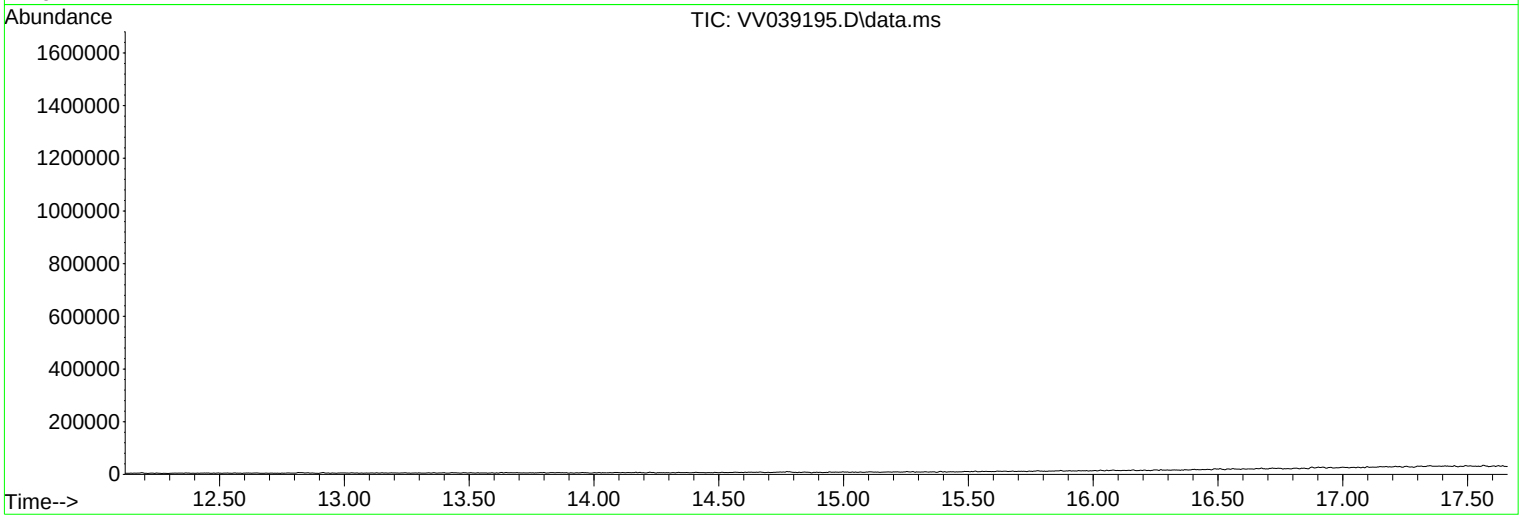
**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-24-091925

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039195.D
Acq On : 25 Sep 2025 20:25
Operator : SY/MD
Sample : Q3195-11
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 29 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-24-091925

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039195.D
Acq On : 25 Sep 2025 20:25
Operator : SY/MD
Sample : Q3195-11
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 29 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-24-091925

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/19/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-26-091925 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-12 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039204.D | 1 | 09/26/25 11:58 | VV092625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.33 | U | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.25 | U | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 1.50 | U | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 0.27 | U | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 1.50 | U | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 1.20 | | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.16 | U | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.090 | U | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | U | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.14 | U | 0.14 | 1.00 | ug/L |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/19/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-26-091925 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-12 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039204.D | 1 | 09/26/25 11:58 | VV092625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.15 | U | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | U | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | U | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.53 | U | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 56.0 | | 74 - 125 | 112% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 52.7 | | 75 - 124 | 105% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 47.0 | | 86 - 113 | 94% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 44.9 | | 77 - 121 | 90% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 487000 | 4.603 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 867000 | 5.535 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 873000 | 8.777 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 421000 | 11.175 | | | |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/19/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-26-091925 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-12 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039204.D | 1 | 09/26/25 11:58 | VV092625 |

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

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

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

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039204.D
Acq On : 26 Sep 2025 11:58
Operator : SY/MD
Sample : Q3195-12
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-26-091925

Quant Time: Sep 27 02:53:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

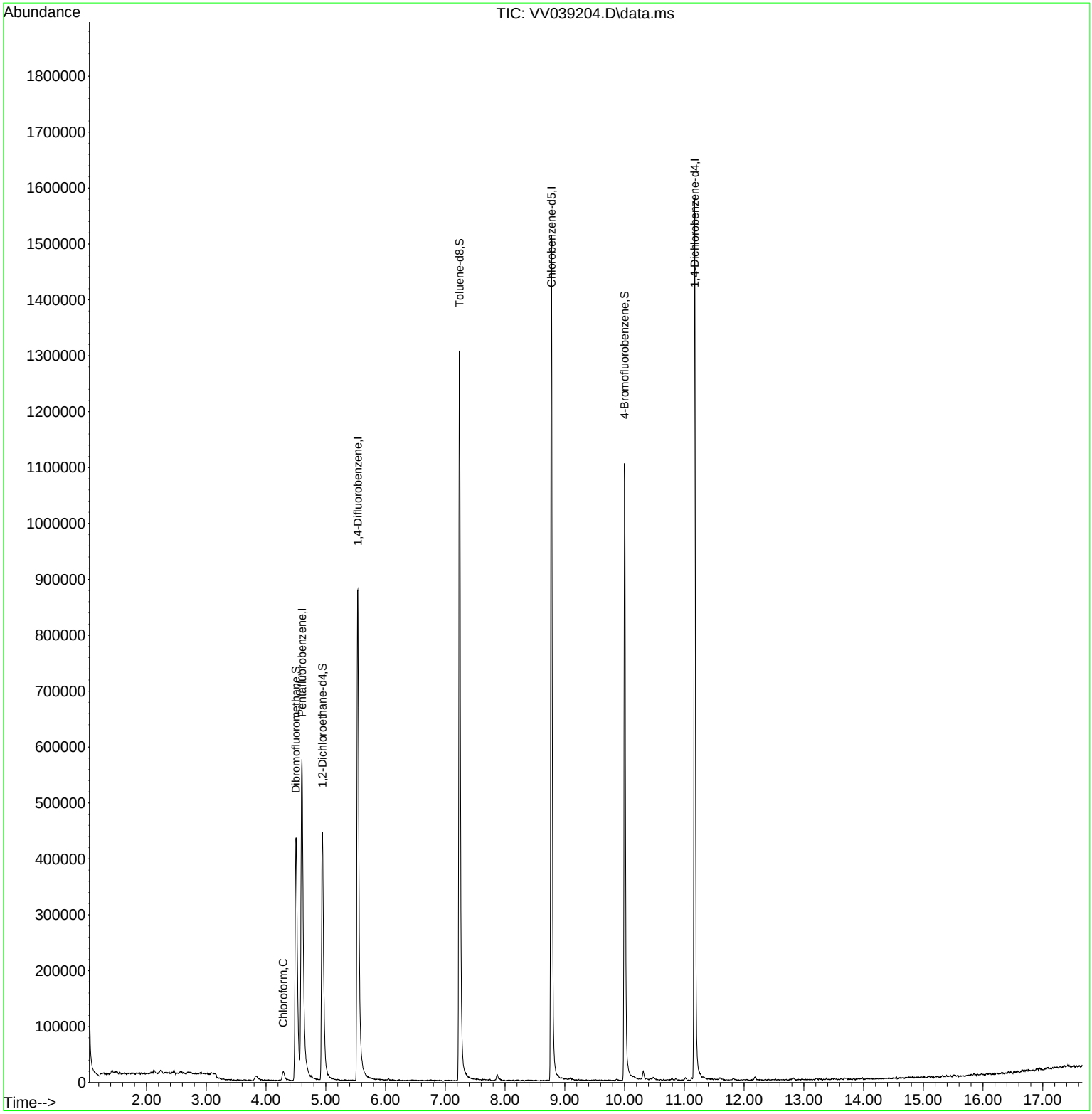
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.603 | 168 | 486629 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.535 | 114 | 867427 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.777 | 117 | 873266 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.175 | 152 | 420754 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.944 | 65 | 394452 | 56.006 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 112.020% | | | |
| 35) Dibromofluoromethane | 4.503 | 113 | 367761 | 52.738 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 105.480% | | | |
| 50) Toluene-d8 | 7.240 | 98 | 962872 | 47.013 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 94.020% | | | |
| 62) 4-Bromofluorobenzene | 10.002 | 95 | 378432 | 44.883 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 89.760% | | | |
| Target Compounds | | | | | | Qvalue |
| 30) Chloroform | 4.288 | 83 | 18760 | 1.172 | ug/l | 96 |

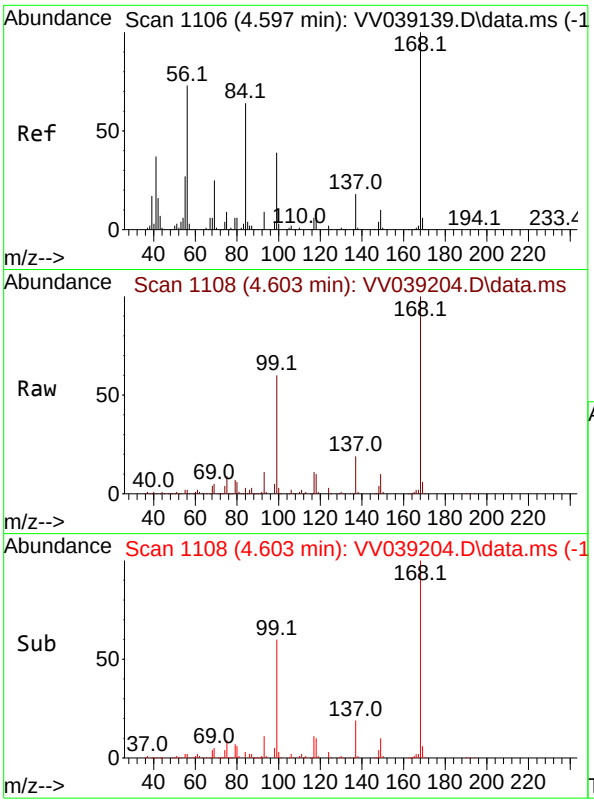
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039204.D
Acq On : 26 Sep 2025 11:58
Operator : SY/MD
Sample : Q3195-12
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-26-091925

Quant Time: Sep 27 02:53:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



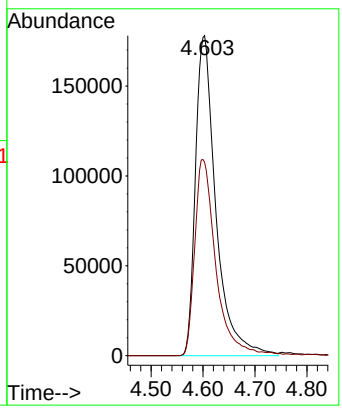


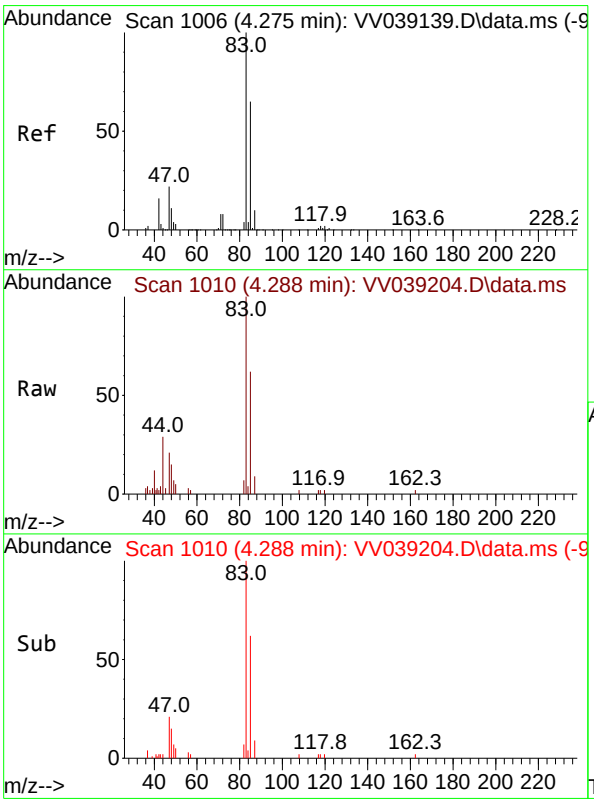

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 11
Delta R.T. 0.006 min
Lab File: VV039204.D
Acq: 26 Sep 2025 11:58

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-26-091925

Tgt Ion:168 Resp: 486629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 60.4 | 49.6 | 74.4 |

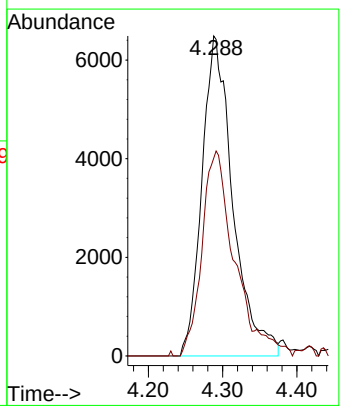


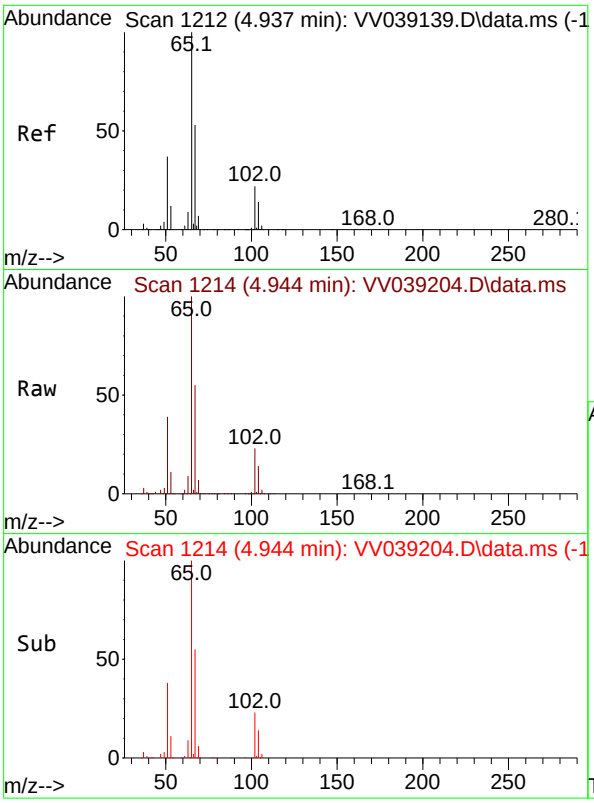




#30
Chloroform
Concen: 1.172 ug/l
RT: 4.288 min Scan# 1010
Delta R.T. 0.013 min
Lab File: VV039204.D
Acq: 26 Sep 2025 11:58

Tgt Ion: 83 Resp: 18760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 61.8 | 52.1 | 78.1 |



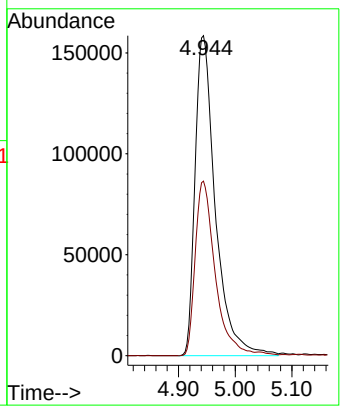


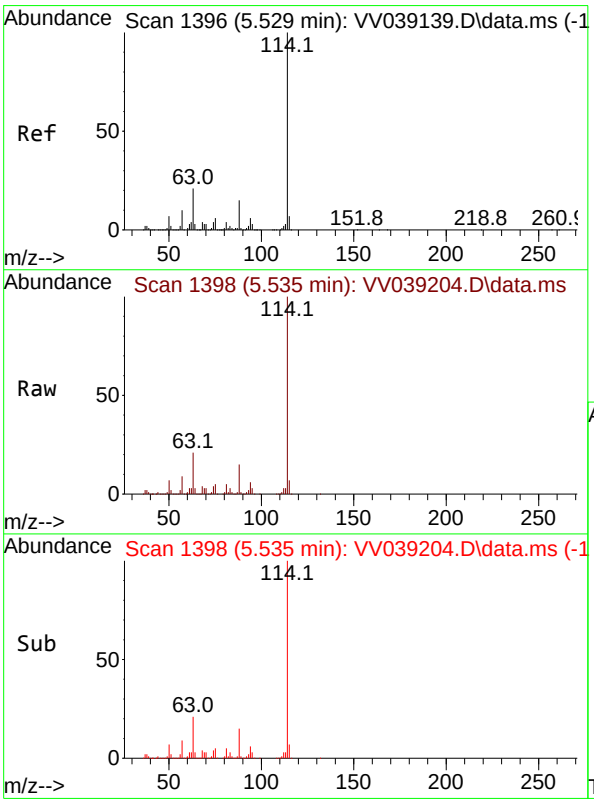

#33
1,2-Dichloroethane-d4
Concen: 56.006 ug/l
RT: 4.944 min Scan# 1
Delta R.T. 0.007 min
Lab File: VV039204.D
Acq: 26 Sep 2025 11:58

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-26-091925

Tgt Ion: 65 Resp: 394452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.4 | 0.0 | 107.0 |

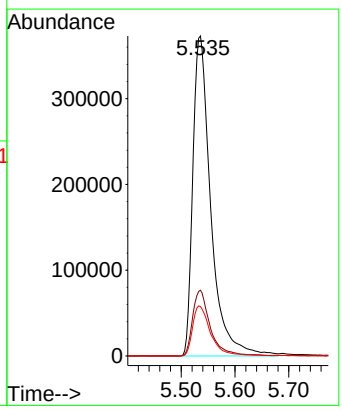


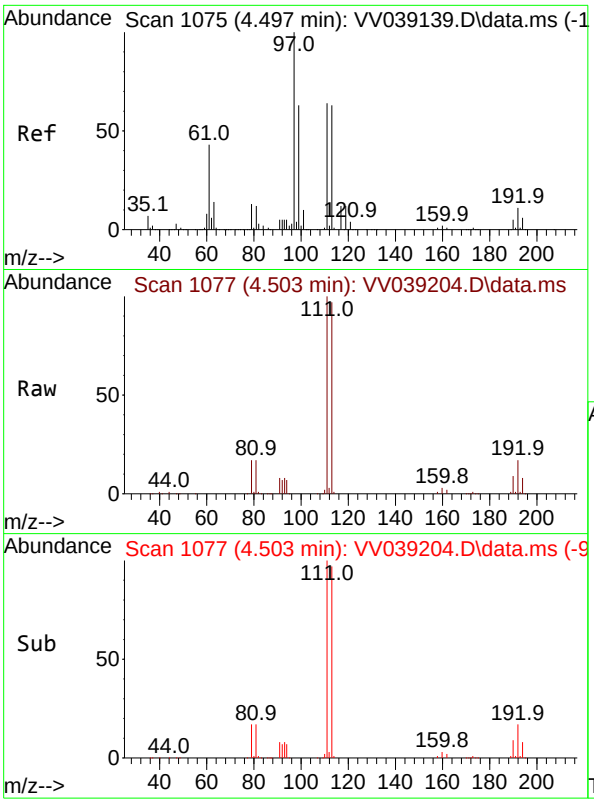




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VV039204.D
Acq: 26 Sep 2025 11:58

Tgt Ion:114 Resp: 867427

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.6 | 0.0 | 42.6 |
| 88 | 15.4 | 0.0 | 30.8 |



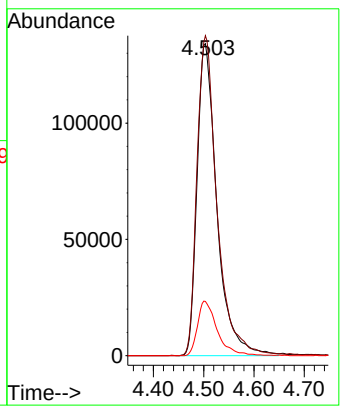


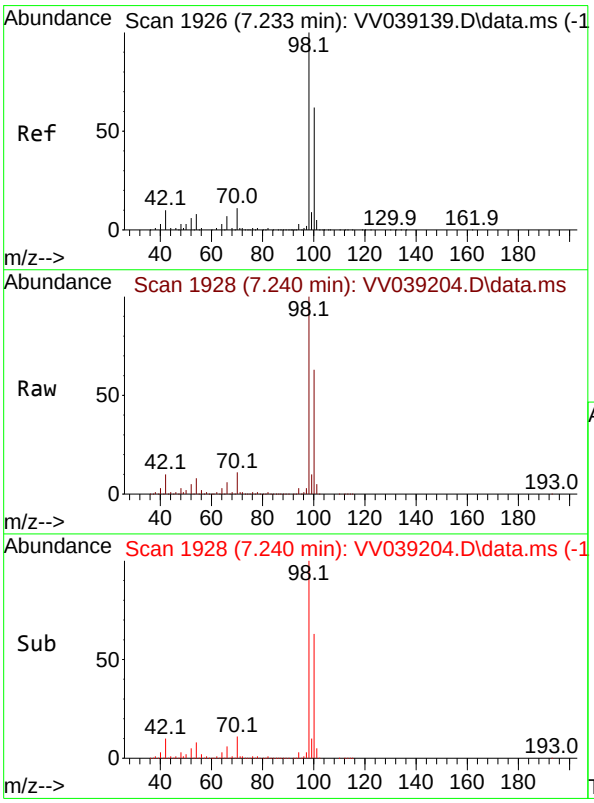

#35
Dibromofluoromethane
Concen: 52.738 ug/l
RT: 4.503 min Scan# 1
Delta R.T. 0.007 min
Lab File: VV039204.D
Acq: 26 Sep 2025 11:58

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-26-091925

Tgt Ion:113 Resp: 367761

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.7 | 82.4 | 123.6 |
| 192 | 17.3 | 13.8 | 20.8 |

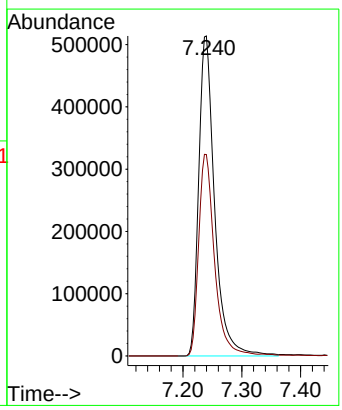


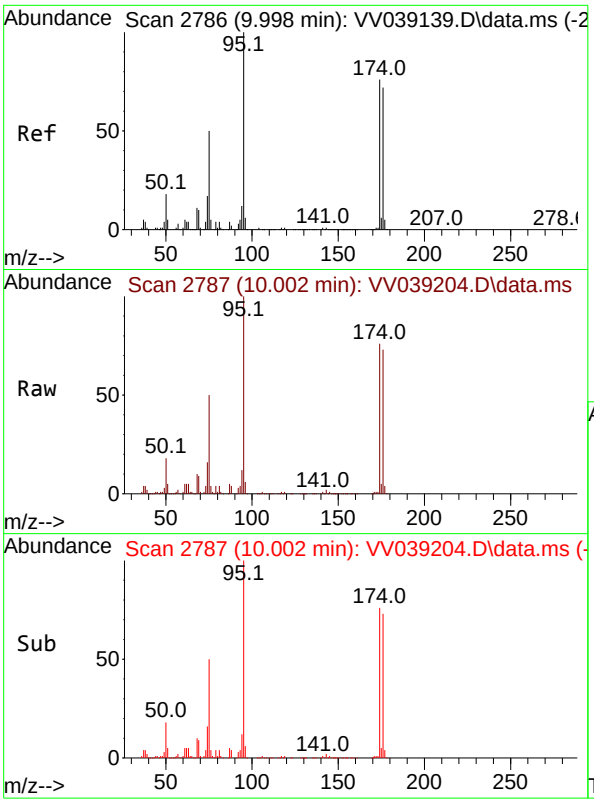




#50
Toluene-d8
Concen: 47.013 ug/l
RT: 7.240 min Scan# 1928
Delta R.T. 0.007 min
Lab File: VV039204.D
Acq: 26 Sep 2025 11:58

Tgt Ion: 98 Resp: 962872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 62.7 | 52.2 | 78.2 |



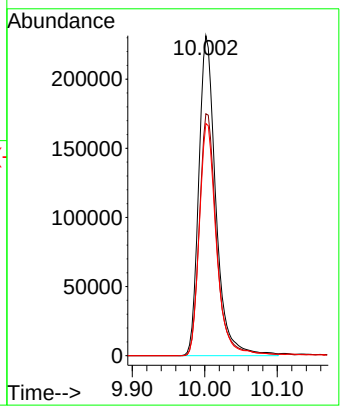


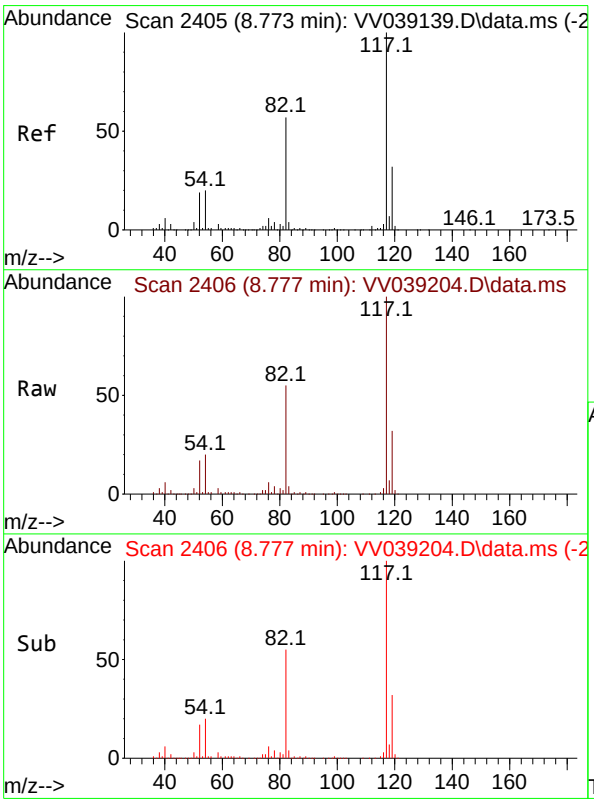

#62
4-Bromofluorobenzene
Concen: 44.883 ug/l
RT: 10.002 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039204.D
Acq: 26 Sep 2025 11:58

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-26-091925

Tgt Ion: 95 Resp: 378432

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 75.9 | 0.0 | 150.4 |
| 176 | 73.0 | 0.0 | 144.2 |

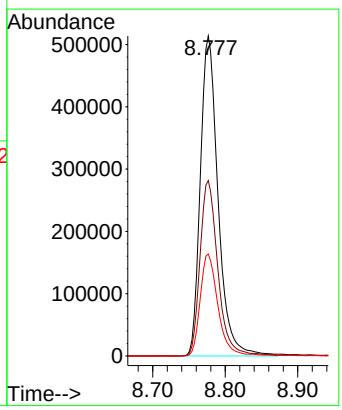


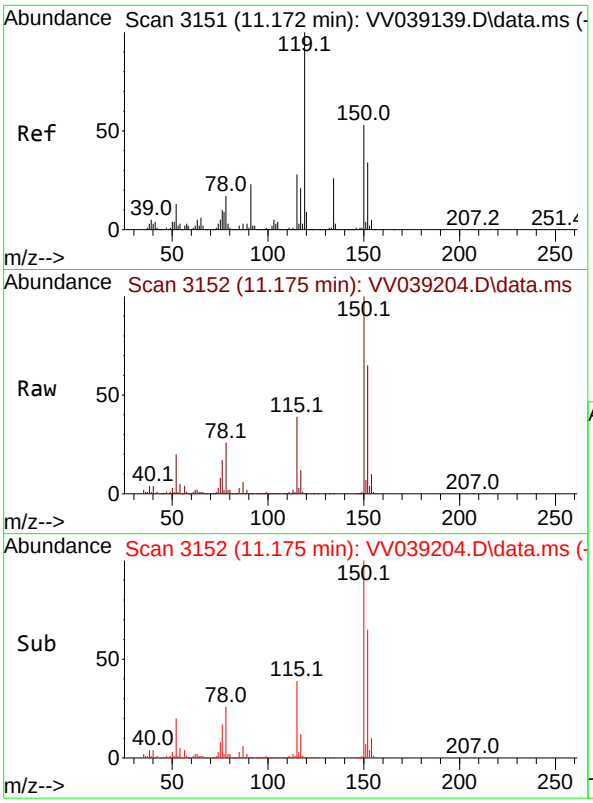




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.777 min Scan# 2406
Delta R.T. 0.004 min
Lab File: VV039204.D
Acq: 26 Sep 2025 11:58

Tgt Ion:117 Resp: 873266

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.8 | 45.4 | 68.2 |
| 119 | 31.9 | 25.6 | 38.4 |



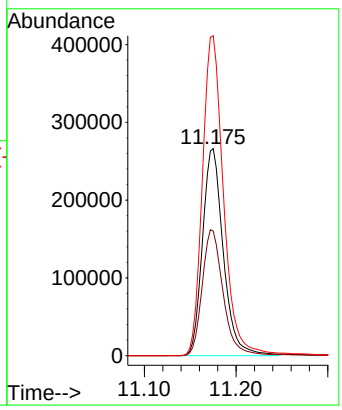



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039204.D
Acq: 26 Sep 2025 11:58

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-26-091925

Tgt Ion:152 Resp: 420754

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 61.0 | 44.8 | 134.4 |
| 150 | 157.7 | 0.0 | 353.8 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039204.D
Acq On : 26 Sep 2025 11:58
Operator : SY/MD
Sample : Q3195-12
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-26-091925

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039204.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.288 | 1000 | 1010 | 1022 | rBV2 | 15195 | 36668 | 1.41% | 0.238% |
| 2 | 4.503 | 1061 | 1077 | 1095 | rBV | 434597 | 1152892 | 44.27% | 7.479% |
| 3 | 4.600 | 1095 | 1107 | 1151 | rVB2 | 569740 | 1594470 | 61.22% | 10.344% |
| 4 | 4.944 | 1202 | 1214 | 1242 | rBV2 | 443064 | 1100181 | 42.24% | 7.137% |
| 5 | 5.535 | 1386 | 1398 | 1441 | rBV | 877375 | 2071943 | 79.55% | 13.441% |
| 6 | 7.236 | 1916 | 1927 | 1957 | rBV | 1304355 | 2478947 | 95.18% | 16.082% |
| 7 | 8.777 | 2395 | 2406 | 2437 | rBV | 1511979 | 2604416 | 100.00% | 16.896% |
| 8 | 10.002 | 2775 | 2787 | 2818 | rBV | 1104751 | 1836050 | 70.50% | 11.911% |
| 9 | 11.175 | 3140 | 3152 | 3175 | rBV | 1574236 | 2539264 | 97.50% | 16.473% |

Sum of corrected areas: 15414831

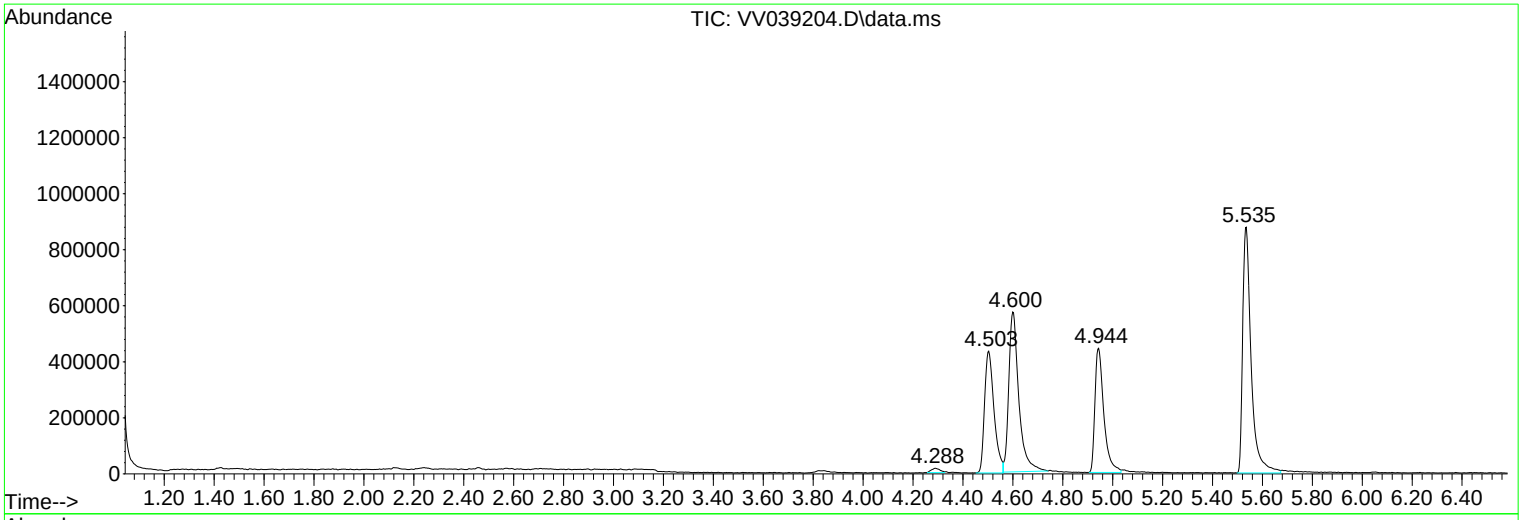
Sample Results: **VV039204.D**

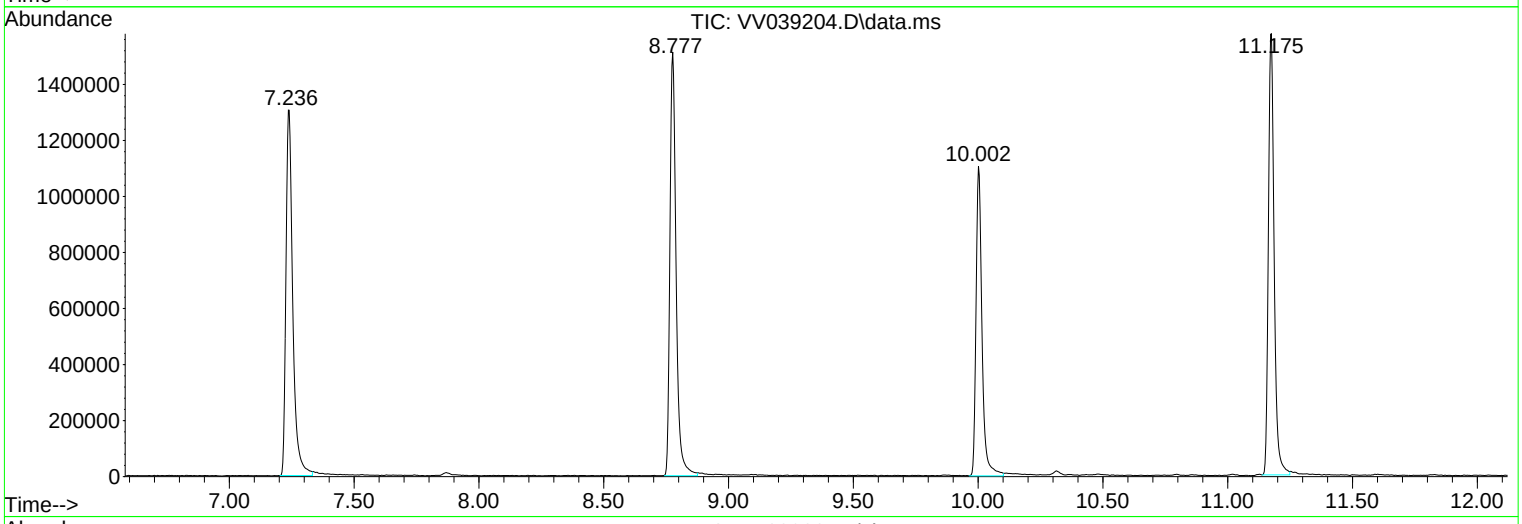
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039204.D
Acq On : 26 Sep 2025 11:58
Operator : SY/MD
Sample : Q3195-12
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 8 Sample Multiplier: 1

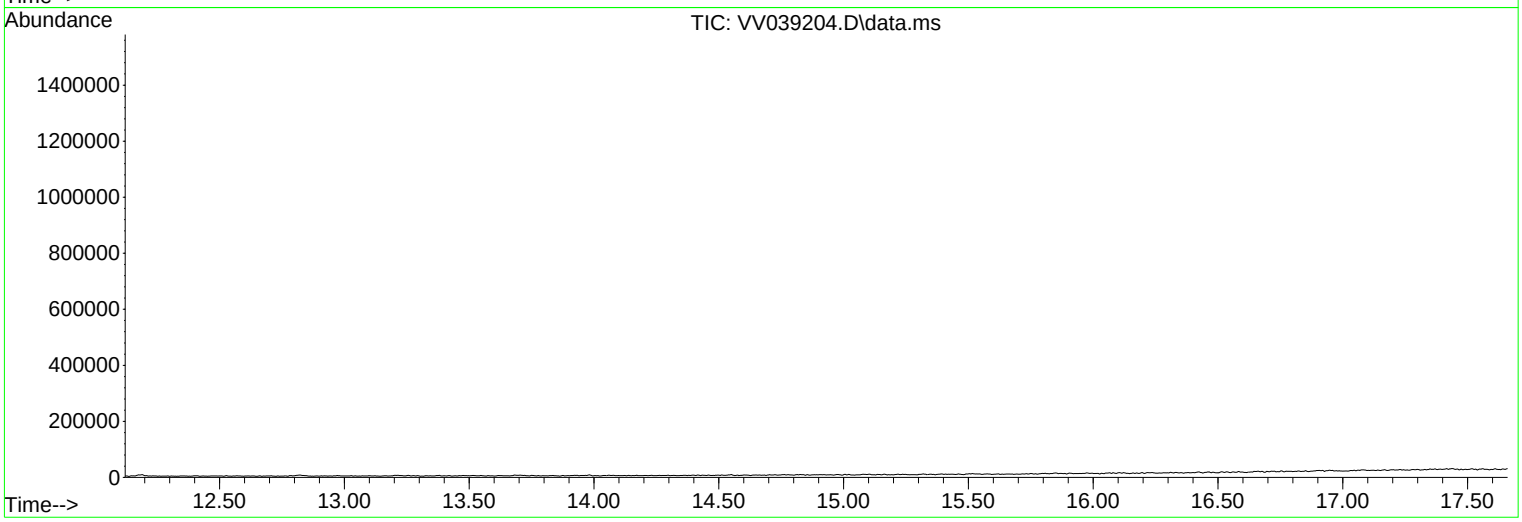
**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-26-091925

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039204.D
Acq On : 26 Sep 2025 11:58
Operator : SY/MD
Sample : Q3195-12
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-26-091925

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039204.D
Acq On : 26 Sep 2025 11:58
Operator : SY/MD
Sample : Q3195-12
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-26-091925

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/19/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-26-091925-FD | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-13 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039212.D | 1 | 09/26/25 14:58 | VV092625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.33 | U | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.25 | U | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 1.50 | U | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 0.27 | U | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 1.50 | U | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 1.10 | | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.16 | U | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.090 | U | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | U | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.14 | U | 0.14 | 1.00 | ug/L |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/19/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-26-091925-FD | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-13 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039212.D | 1 | 09/26/25 14:58 | VV092625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.15 | U | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | U | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | U | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.53 | U | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 60.7 | | 74 - 125 | 121% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 56.1 | | 75 - 124 | 112% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 47.7 | | 86 - 113 | 95% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 44.3 | | 77 - 121 | 89% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 454000 | 4.6 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 813000 | 5.535 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 842000 | 8.776 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 399000 | 11.172 | | | |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/19/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-26-091925-FD | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-13 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039212.D | 1 | 09/26/25 14:58 | VV092625 |

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

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

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

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039212.D
Acq On : 26 Sep 2025 14:58
Operator : SY/MD
Sample : Q3195-13
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-26-091925-FD

Quant Time: Sep 27 02:57:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

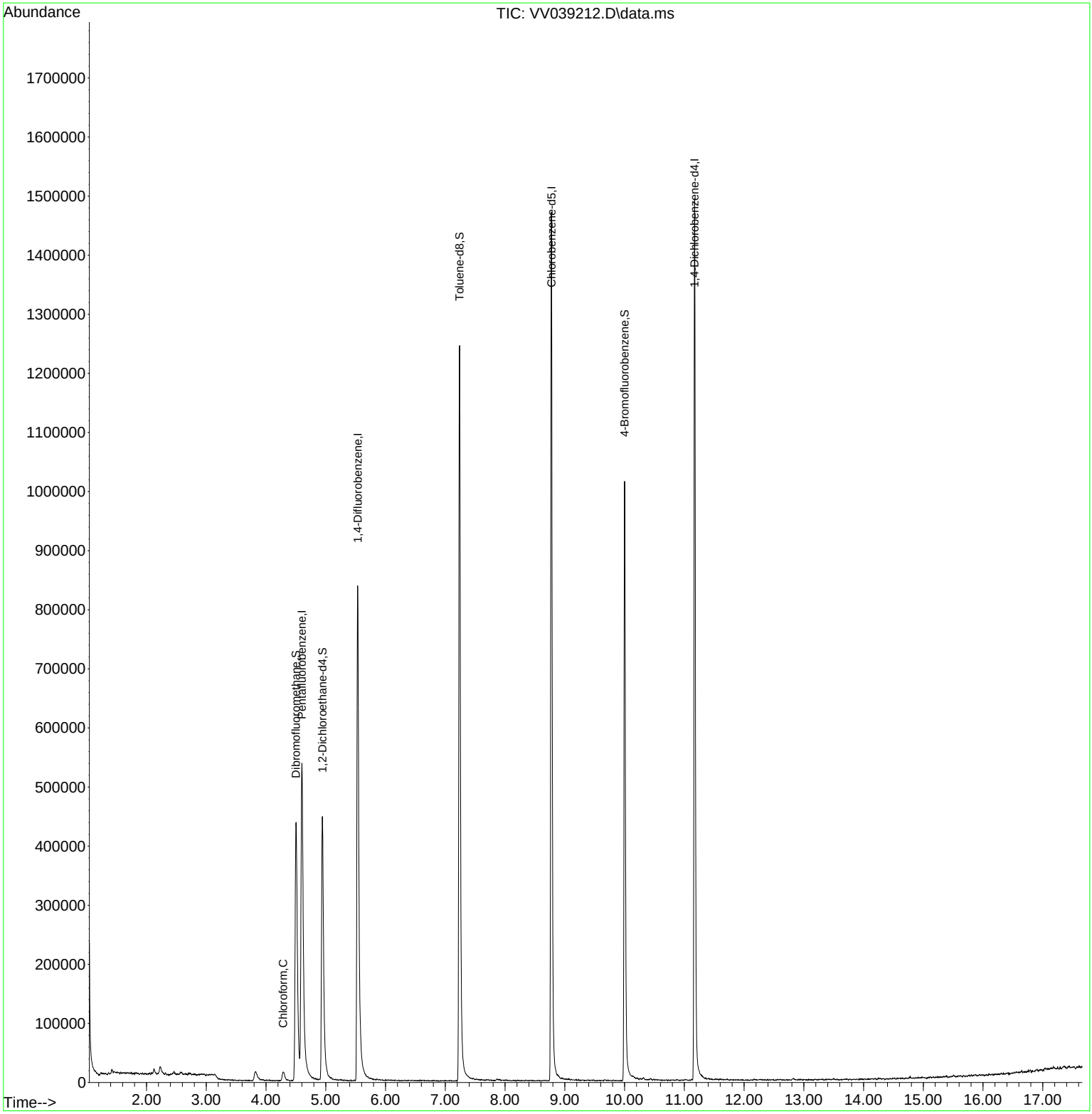
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.600 | 168 | 454191 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.535 | 114 | 813227 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.776 | 117 | 842320 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.172 | 152 | 398907 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.944 | 65 | 398953 | 60.691 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 121.380%# | | | |
| 35) Dibromofluoromethane | 4.503 | 113 | 366722 | 56.094 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 112.180% | | | |
| 50) Toluene-d8 | 7.239 | 98 | 915207 | 47.664 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 95.320% | | | |
| 62) 4-Bromofluorobenzene | 10.001 | 95 | 350373 | 44.325 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 88.660% | | | |
| Target Compounds | | | | | | Qvalue |
| 30) Chloroform | 4.288 | 83 | 17020 | 1.139 | ug/l | 89 |

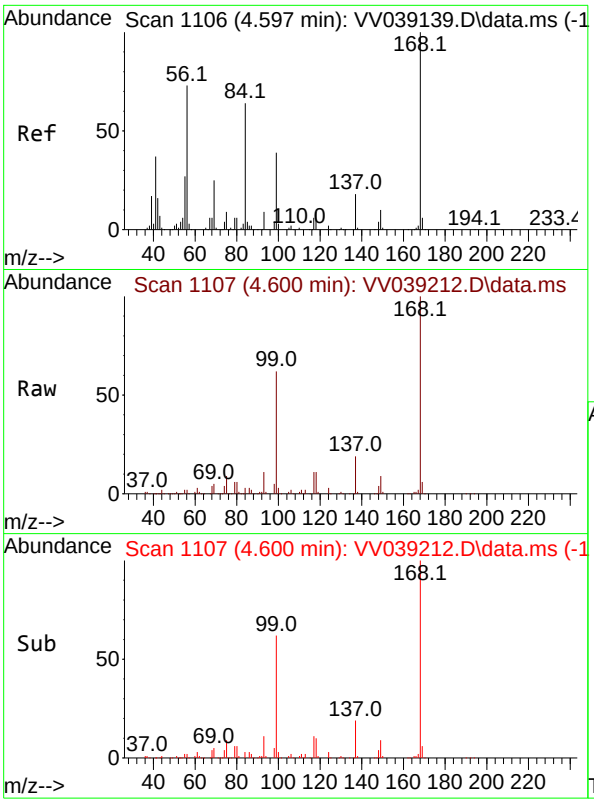
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039212.D
Acq On : 26 Sep 2025 14:58
Operator : SY/MD
Sample : Q3195-13
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-26-091925-FD

Quant Time: Sep 27 02:57:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



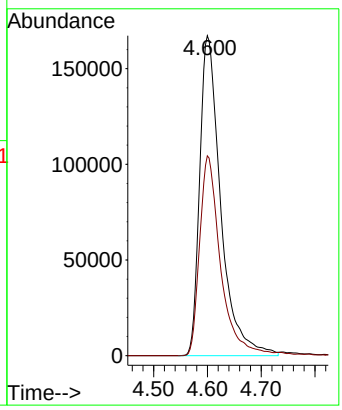


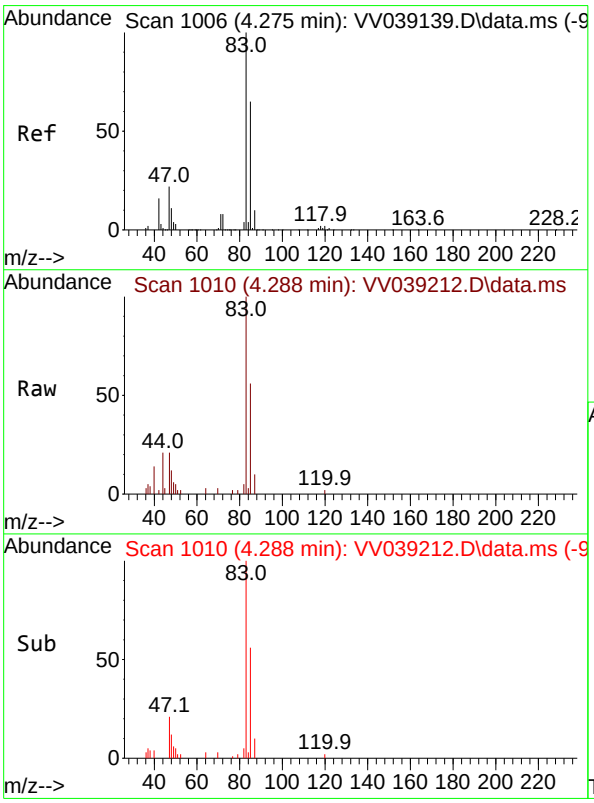

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039212.D
Acq: 26 Sep 2025 14:58

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-26-091925-FD

Tgt Ion:168 Resp: 454191

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 62.4 | 49.6 | 74.4 |

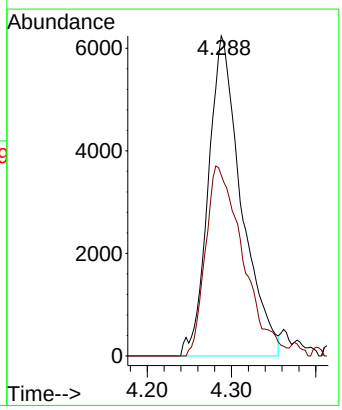


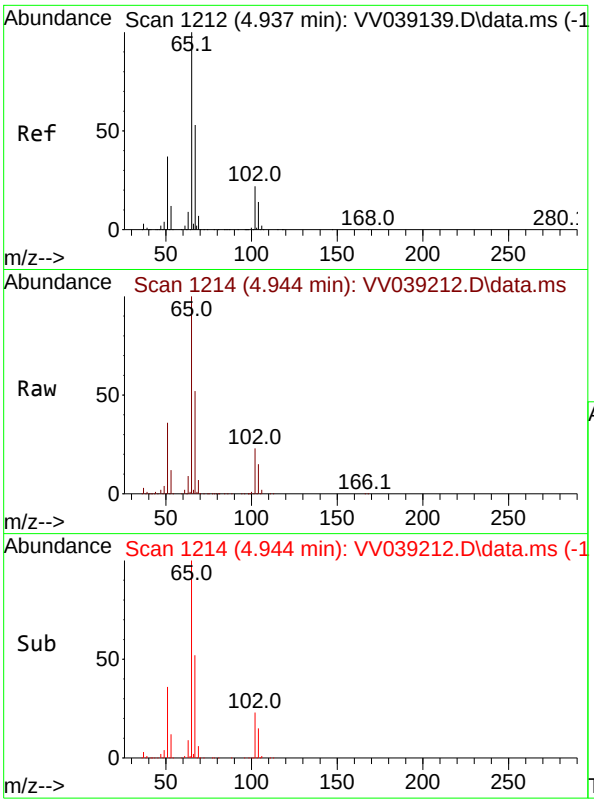




#30
Chloroform
Concen: 1.139 ug/l
RT: 4.288 min Scan# 1010
Delta R.T. 0.013 min
Lab File: VV039212.D
Acq: 26 Sep 2025 14:58

Tgt Ion: 83 Resp: 17020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 56.5 | 52.1 | 78.1 |



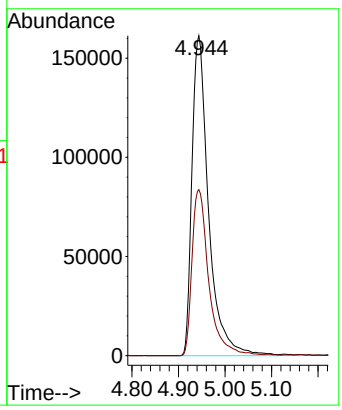


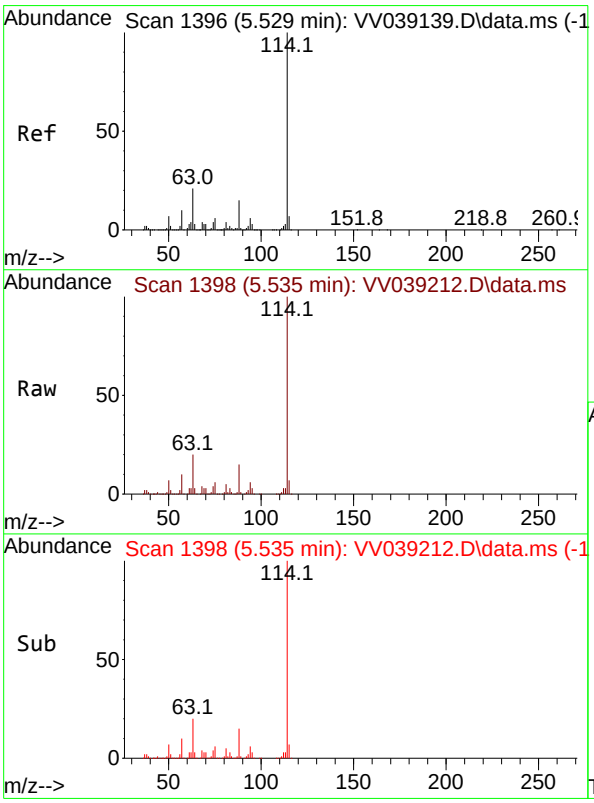

#33
1,2-Dichloroethane-d4
Concen: 60.691 ug/l
RT: 4.944 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039212.D
Acq: 26 Sep 2025 14:58

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-26-091925-FD

Tgt Ion: 65 Resp: 398953

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.6 | 0.0 | 107.0 |

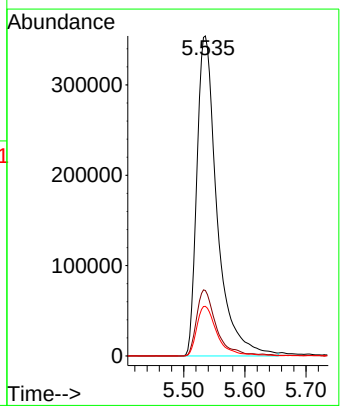


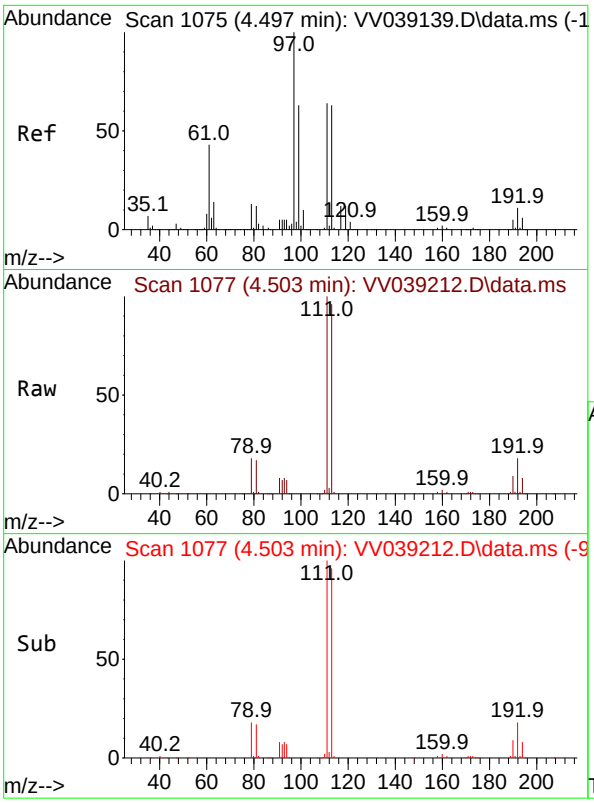




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VV039212.D
Acq: 26 Sep 2025 14:58

Tgt Ion:114 Resp: 813227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.4 | 0.0 | 42.6 |
| 88 | 15.5 | 0.0 | 30.8 |



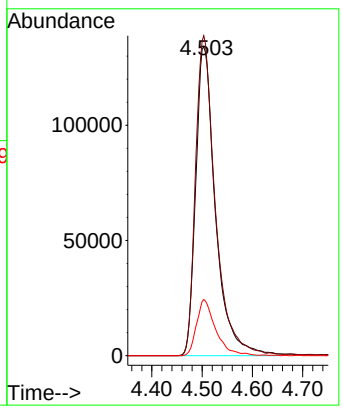


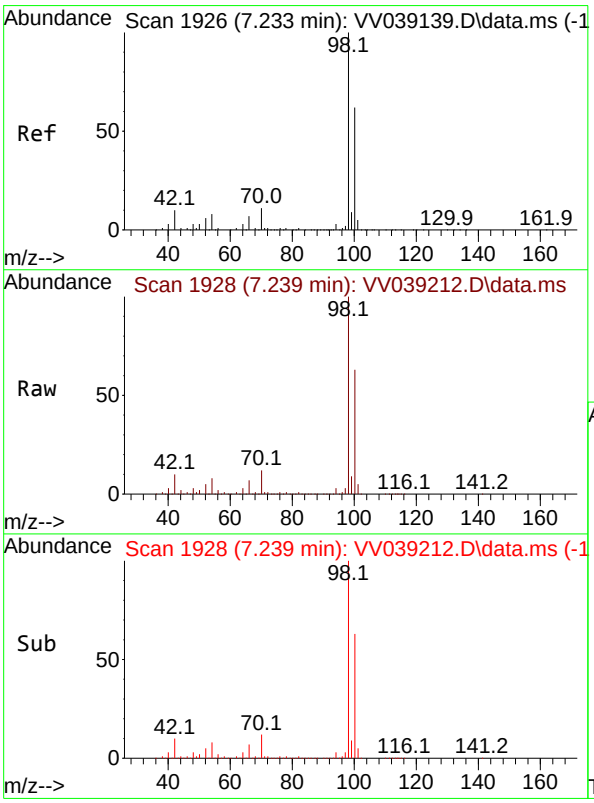

#35
Dibromofluoromethane
Concen: 56.094 ug/l
RT: 4.503 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039212.D
Acq: 26 Sep 2025 14:58

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-26-091925-FD

Tgt Ion:113 Resp: 366722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.4 | 82.4 | 123.6 |
| 192 | 17.3 | 13.8 | 20.8 |

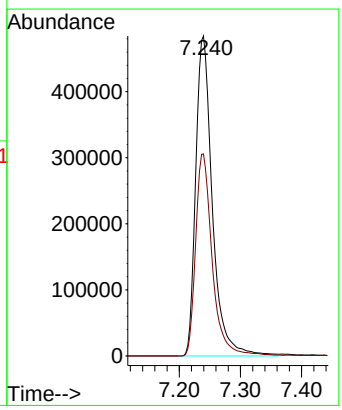


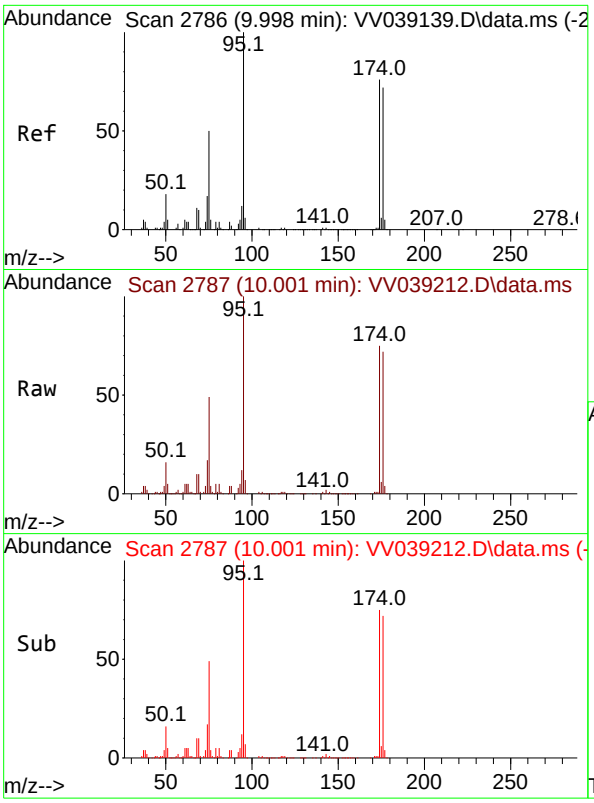




#50
Toluene-d8
Concen: 47.664 ug/l
RT: 7.239 min Scan# 1928
Delta R.T. 0.006 min
Lab File: VV039212.D
Acq: 26 Sep 2025 14:58

Tgt Ion: 98 Resp: 915207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.1 | 52.2 | 78.2 |



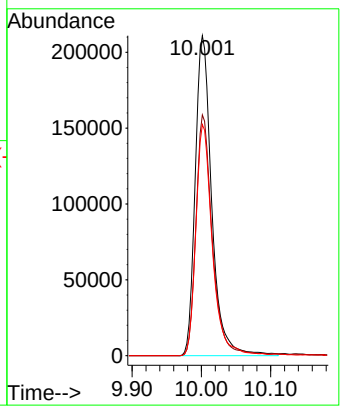


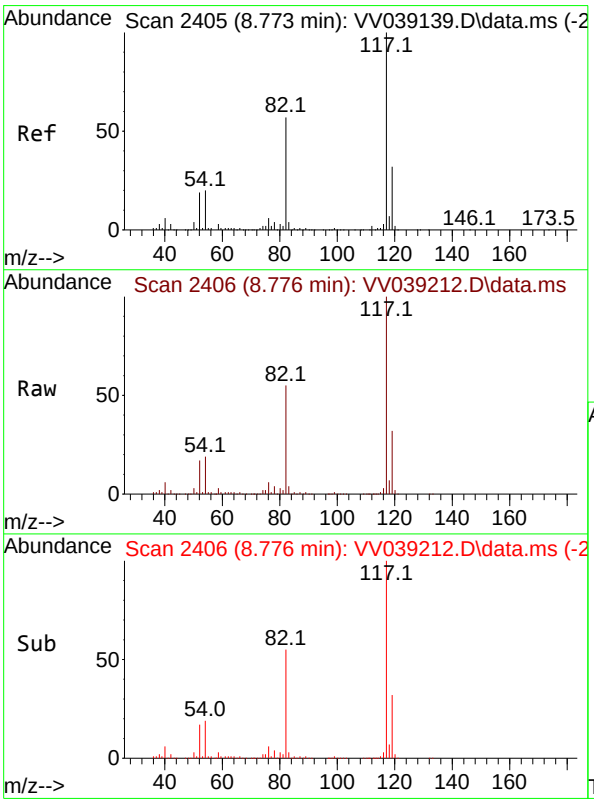

#62
4-Bromofluorobenzene
Concen: 44.325 ug/l
RT: 10.001 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039212.D
Acq: 26 Sep 2025 14:58

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-26-091925-FD

Tgt Ion: 95 Resp: 350373

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 74.4 | 0.0 | 150.4 |
| 176 | 72.0 | 0.0 | 144.2 |

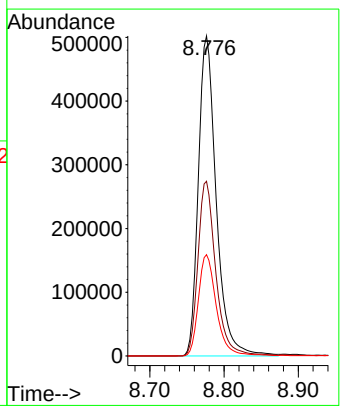


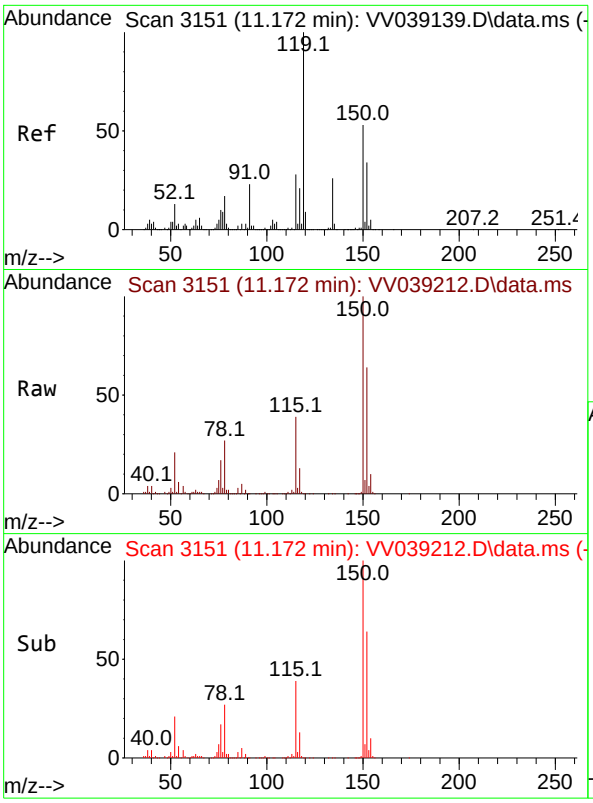




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039212.D
Acq: 26 Sep 2025 14:58

Tgt Ion:117 Resp: 842320

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.6 | 45.4 | 68.2 |
| 119 | 31.6 | 25.6 | 38.4 |



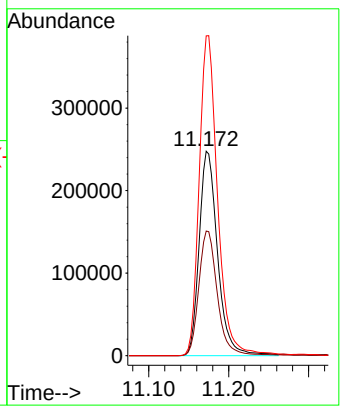



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039212.D
Acq: 26 Sep 2025 14:58

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-26-091925-FD

Tgt Ion:152 Resp: 398907

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 61.7 | 44.8 | 134.4 |
| 150 | 156.4 | 0.0 | 353.8 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039212.D
Acq On : 26 Sep 2025 14:58
Operator : SY/MD
Sample : Q3195-13
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-26-091925-FD

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039212.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 3.828 | 851 | 867 | 881 | rBV2 | 15426 | 50746 | 2.03% | 0.342% |
| 2 | 4.291 | 997 | 1011 | 1029 | rBV4 | 14408 | 42422 | 1.70% | 0.286% |
| 3 | 4.503 | 1059 | 1077 | 1095 | rBV | 437678 | 1152550 | 46.08% | 7.765% |
| 4 | 4.600 | 1096 | 1107 | 1156 | rVB | 533135 | 1486851 | 59.45% | 10.017% |
| 5 | 4.944 | 1201 | 1214 | 1246 | rBV | 445517 | 1099401 | 43.96% | 7.407% |
| 6 | 5.532 | 1386 | 1397 | 1440 | rBV | 838129 | 1963319 | 78.50% | 13.227% |
| 7 | 7.240 | 1915 | 1928 | 1969 | rBV | 1245465 | 2409622 | 96.34% | 16.234% |
| 8 | 8.776 | 2395 | 2406 | 2436 | rBV | 1470065 | 2501158 | 100.00% | 16.850% |
| 9 | 10.001 | 2775 | 2787 | 2825 | rBV | 1015179 | 1718732 | 68.72% | 11.579% |
| 10 | 11.172 | 3140 | 3151 | 3186 | rBV | 1491188 | 2418679 | 96.70% | 16.295% |

Sum of corrected areas: 14843480

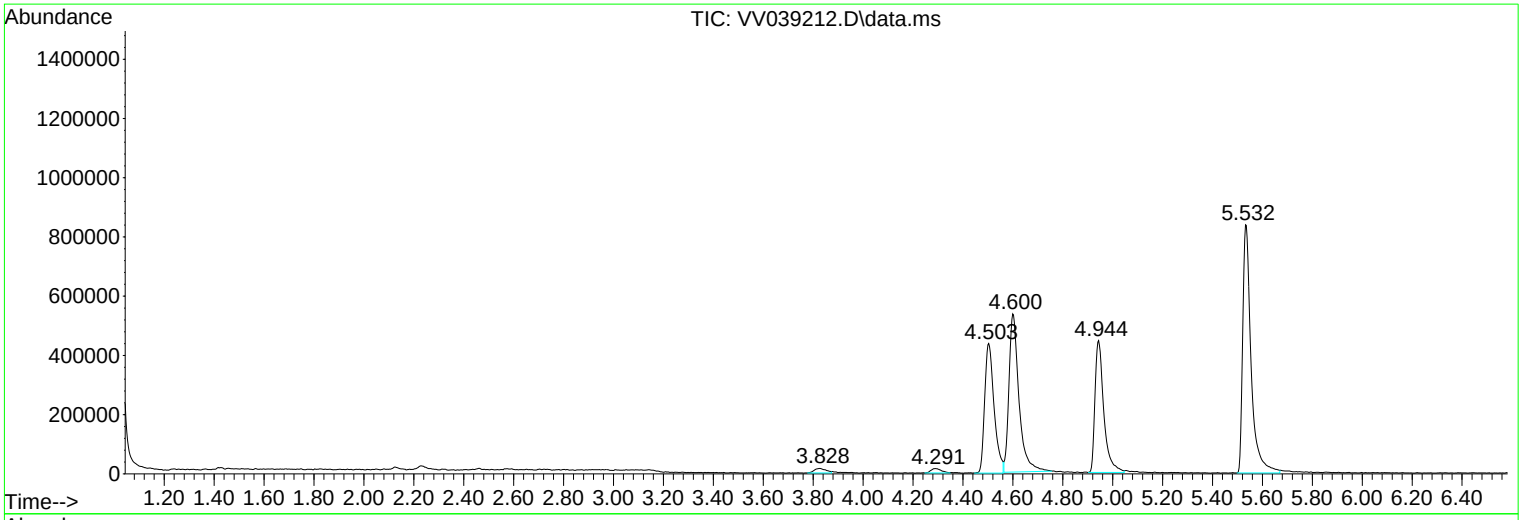
Sample Results: **VV039212.D**

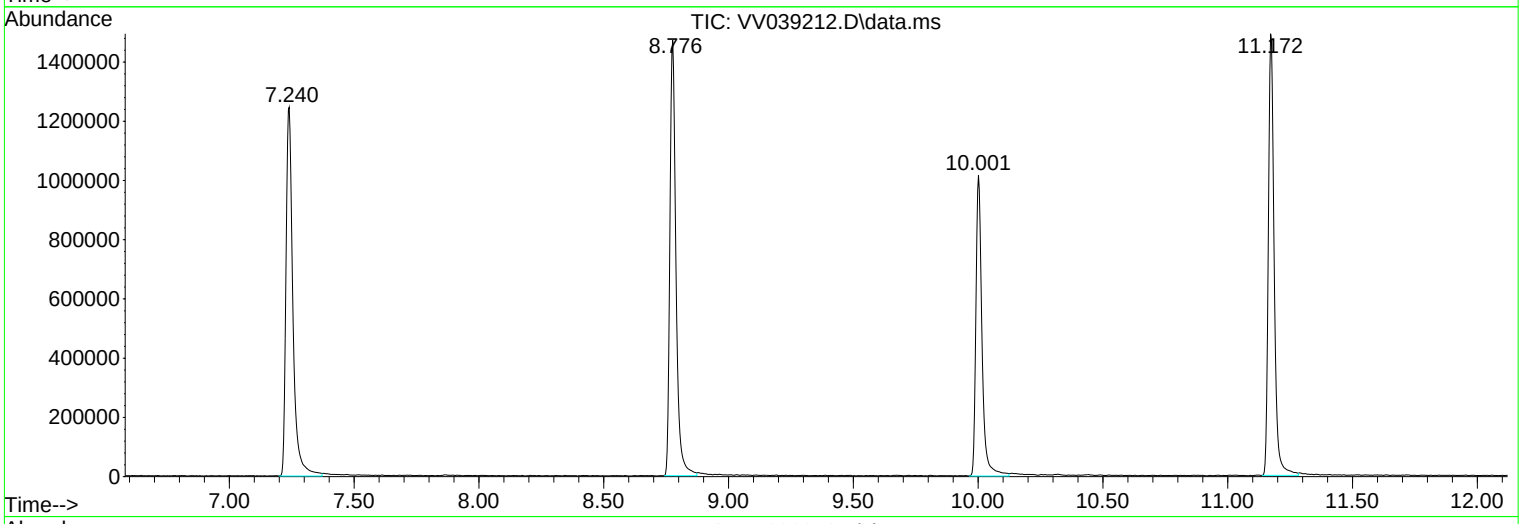
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039212.D
Acq On : 26 Sep 2025 14:58
Operator : SY/MD
Sample : Q3195-13
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 16 Sample Multiplier: 1

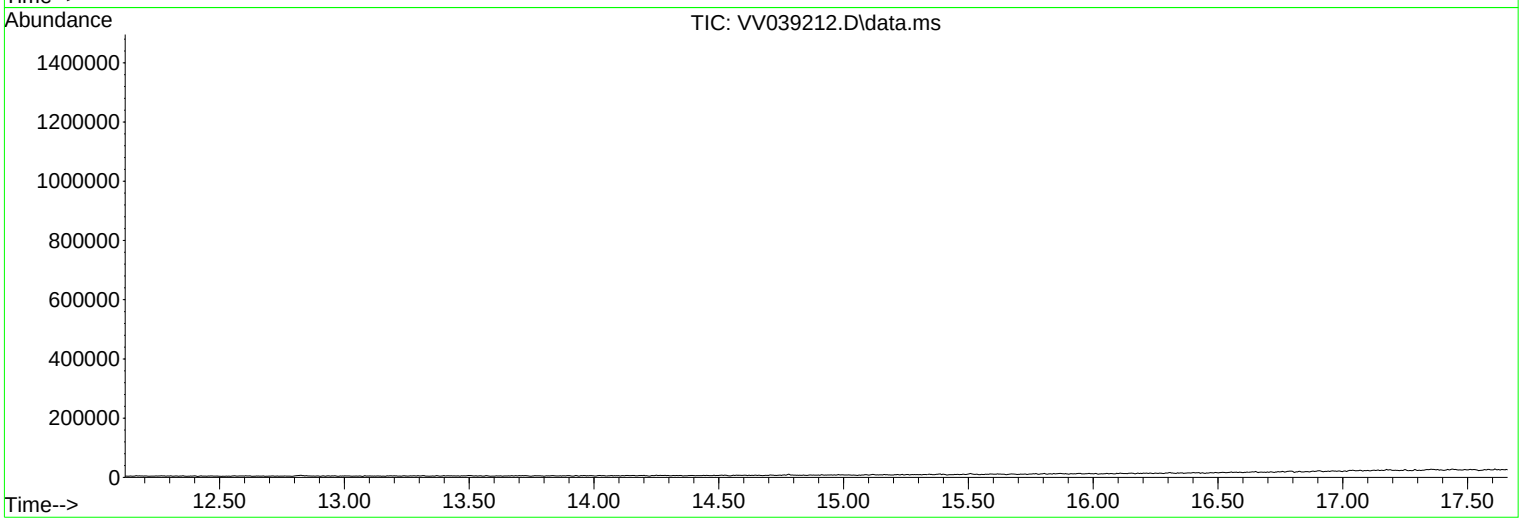
**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-26-091925-FD

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039212.D
Acq On : 26 Sep 2025 14:58
Operator : SY/MD
Sample : Q3195-13
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-26-091925-FD

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039212.D
Acq On : 26 Sep 2025 14:58
Operator : SY/MD
Sample : Q3195-13
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-26-091925-FD

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/23/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-29-092325 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-14 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039213.D | 1 | 09/26/25 15:20 | VV092625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.33 | U | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.31 | J | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.36 | J | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 1.50 | U | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 0.27 | U | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 1.50 | U | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 1.80 | | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.25 | U | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.16 | U | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 2.90 | | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | U | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.14 | U | 0.14 | 1.00 | ug/L |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/23/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-29-092325 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-14 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039213.D | 1 | 09/26/25 15:20 | VV092625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.15 | U | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | U | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | U | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.53 | U | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 61.8 | | 74 - 125 | 124% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 56.0 | | 75 - 124 | 112% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 46.3 | | 86 - 113 | 93% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 43.7 | | 77 - 121 | 87% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 451000 | 4.6 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 820000 | 5.535 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 842000 | 8.776 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 392000 | 11.175 | | | |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/23/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-29-092325 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-14 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039213.D | 1 | 09/26/25 15:20 | VV092625 |

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

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

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

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039213.D
Acq On : 26 Sep 2025 15:20
Operator : SY/MD
Sample : Q3195-14
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-29-092325

Quant Time: Sep 27 02:58:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

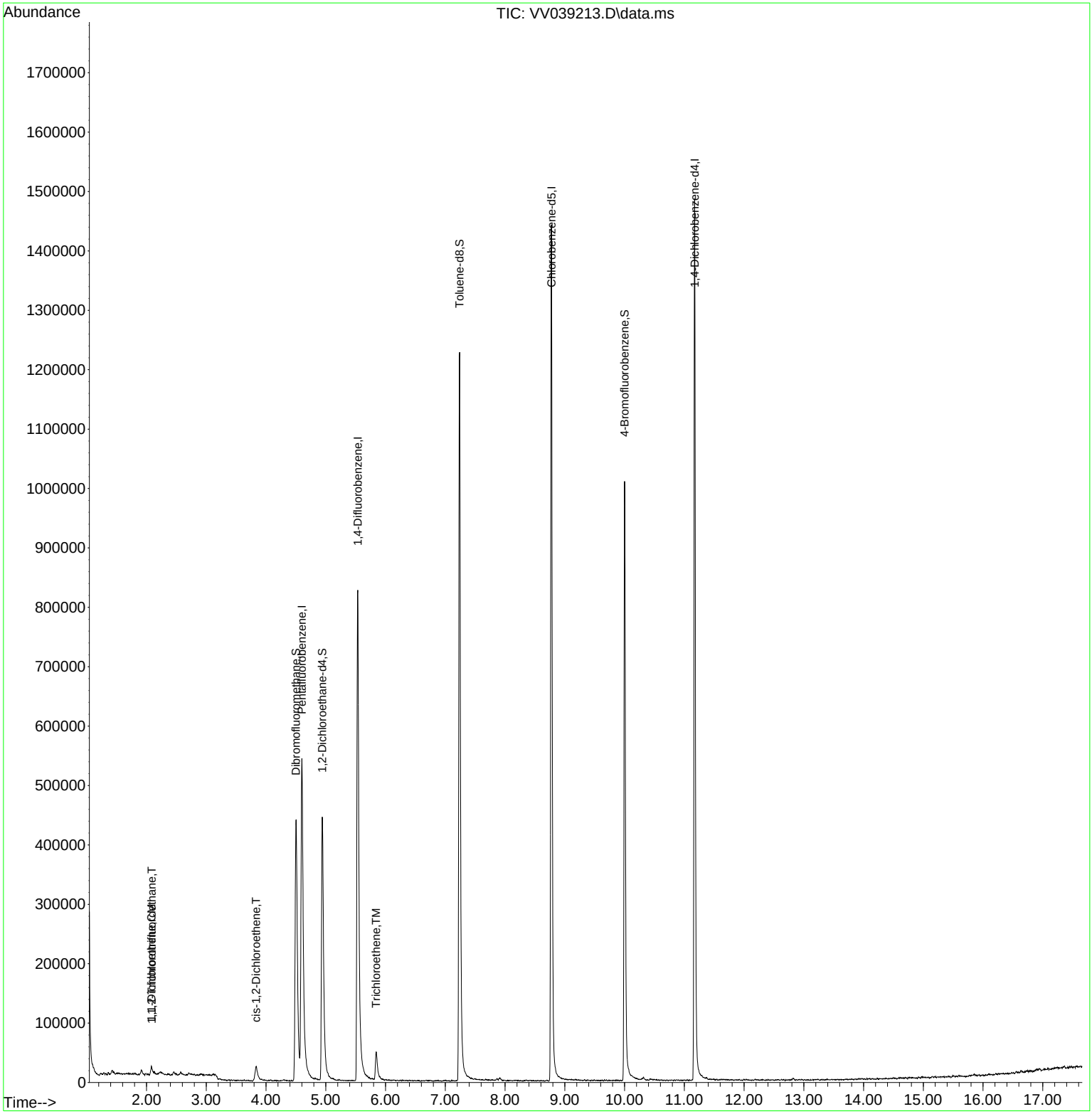
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.600 | 168 | 450640 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.535 | 114 | 819940 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.776 | 117 | 841715 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.175 | 152 | 391674 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.941 | 65 | 402866 | 61.769 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 123.540%# | | | |
| 35) Dibromofluoromethane | 4.503 | 113 | 368992 | 55.979 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 111.960% | | | |
| 50) Toluene-d8 | 7.239 | 98 | 896272 | 46.296 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 92.600% | | | |
| 62) 4-Bromofluorobenzene | 10.001 | 95 | 348361 | 43.710 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 87.420% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) 1,1,2-Trichlorotrifluo... | 2.089 | 101 | 2185 | 0.309 | ug/l # | 85 |
| 12) 1,1-Dichloroethene | 2.082 | 96 | 2472 | 0.364 | ug/l | 83 |
| 27) cis-1,2-Dichloroethene | 3.834 | 96 | 13996 | 1.754 | ug/l | 81 |
| 44) Trichloroethene | 5.844 | 130 | 21362 | 2.853 | ug/l | 99 |

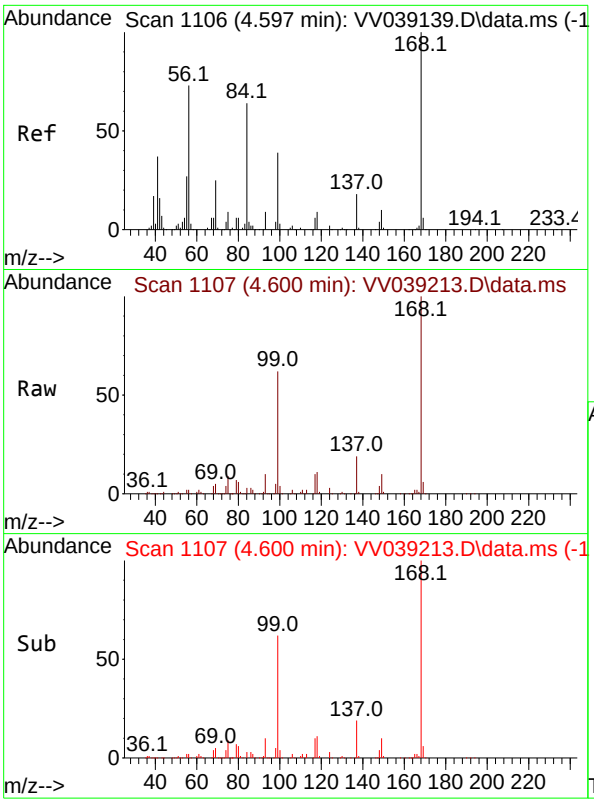
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039213.D
Acq On : 26 Sep 2025 15:20
Operator : SY/MD
Sample : Q3195-14
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-29-092325

Quant Time: Sep 27 02:58:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



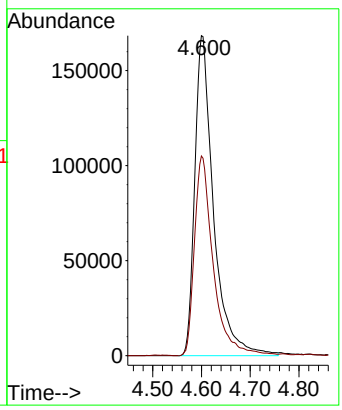


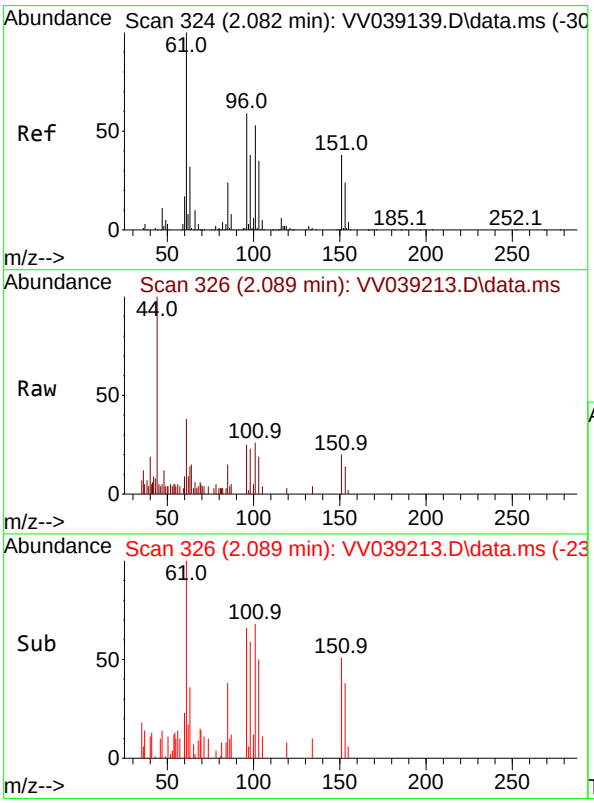

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039213.D
Acq: 26 Sep 2025 15:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-29-092325

Tgt Ion:168 Resp: 450640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 62.4 | 49.6 | 74.4 |

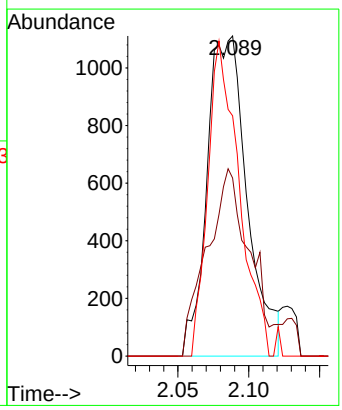


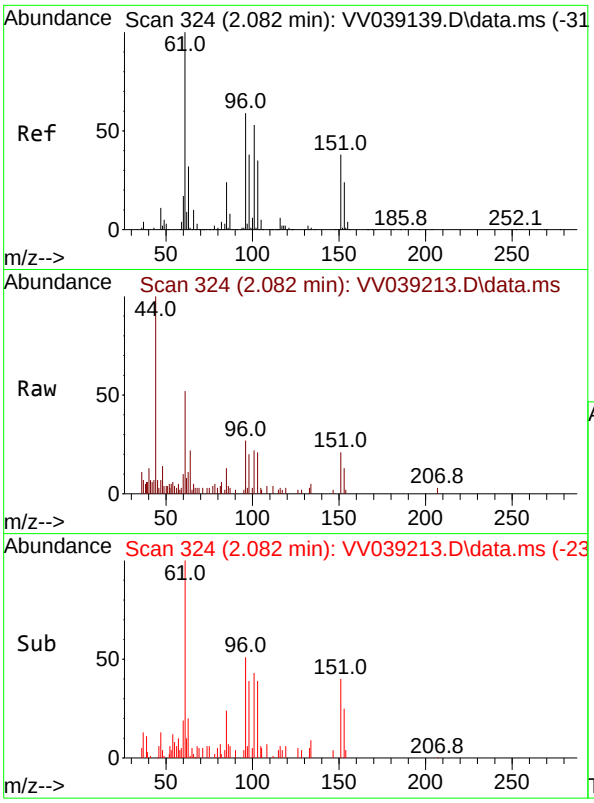




#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.309 ug/l
RT: 2.089 min Scan# 326
Delta R.T. 0.006 min
Lab File: VV039213.D
Acq: 26 Sep 2025 15:20

Tgt Ion:101 Resp: 2185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 62.2 | 36.2 | 54.2# |
| 151 | 76.8 | 56.3 | 84.5 |



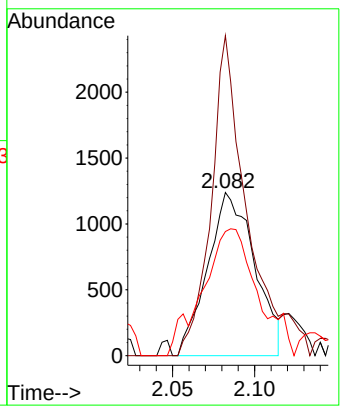


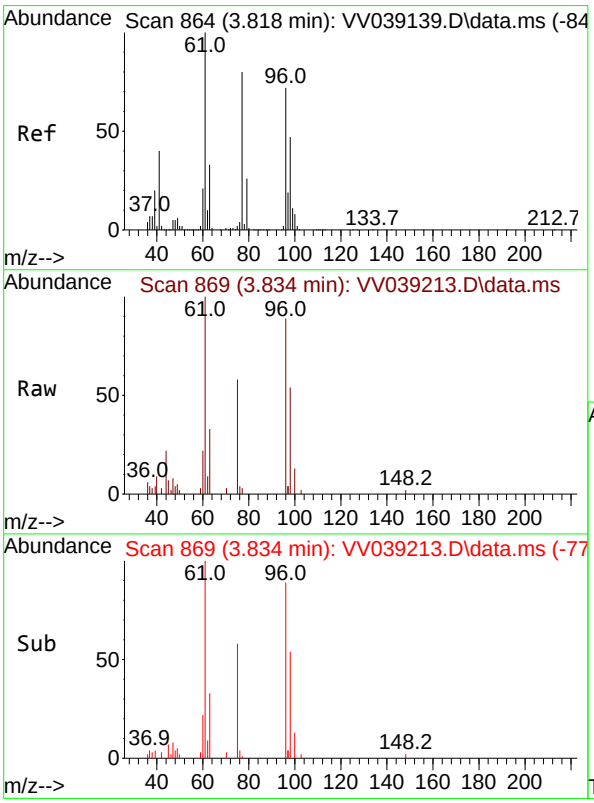

#12
1,1-Dichloroethene
Concen: 0.364 ug/l
RT: 2.082 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039213.D
Acq: 26 Sep 2025 15:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-29-092325

Tgt Ion: 96 Resp: 2472

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 196.0 | 136.0 | 204.0 |
| 98 | 54.1 | 51.0 | 76.6 |

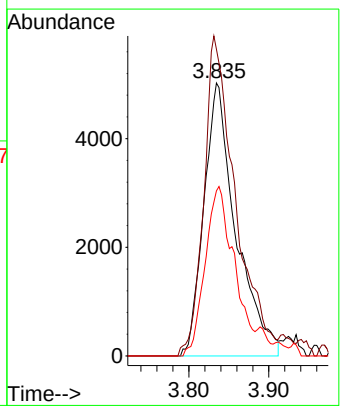


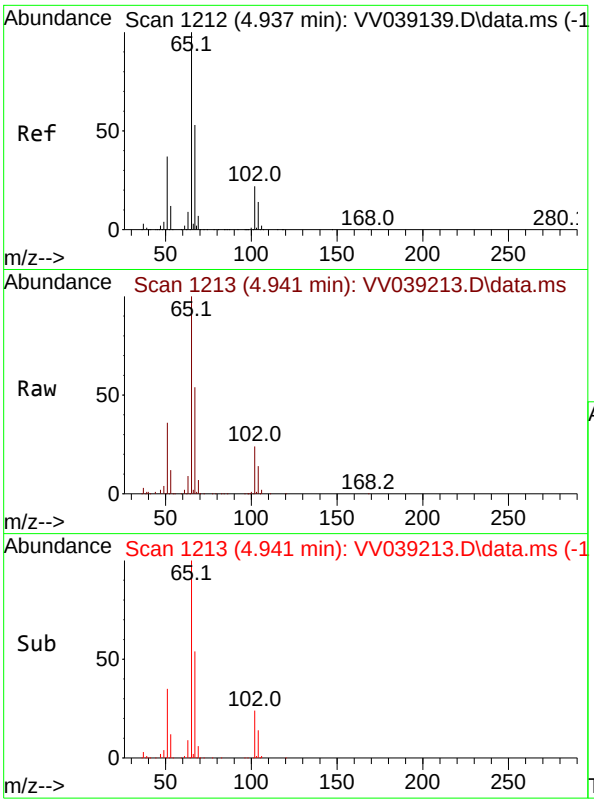




#27
cis-1,2-Dichloroethene
Concen: 1.754 ug/l
RT: 3.834 min Scan# 869
Delta R.T. 0.016 min
Lab File: VV039213.D
Acq: 26 Sep 2025 15:20

Tgt Ion: 96 Resp: 13996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 115.0 | 0.0 | 286.4 |
| 98 | 56.4 | 0.0 | 126.6 |



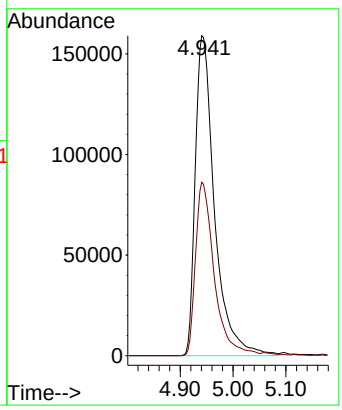


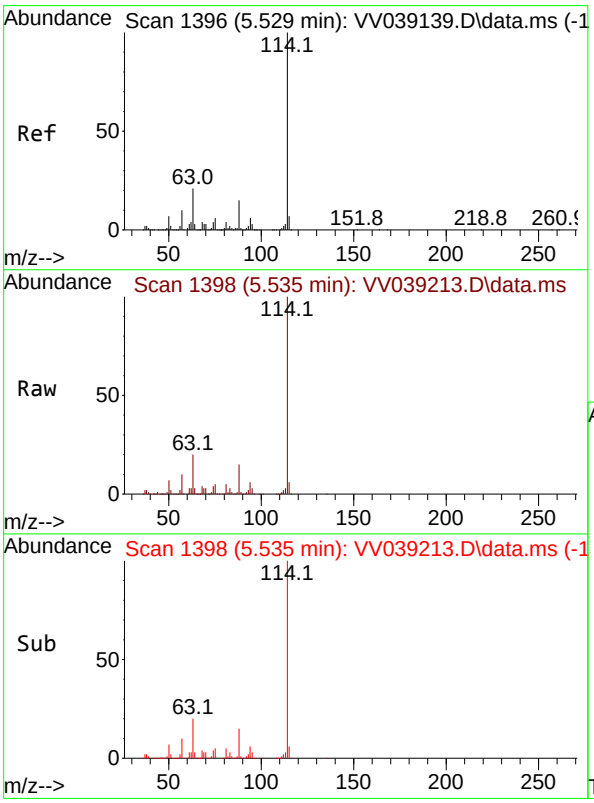

#33
1,2-Dichloroethane-d4
Concen: 61.769 ug/l
RT: 4.941 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039213.D
Acq: 26 Sep 2025 15:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-29-092325

Tgt Ion: 65 Resp: 402866

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.5 | 0.0 | 107.0 |

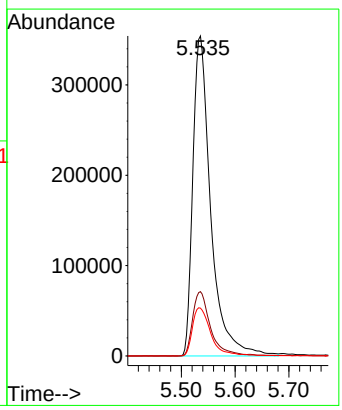


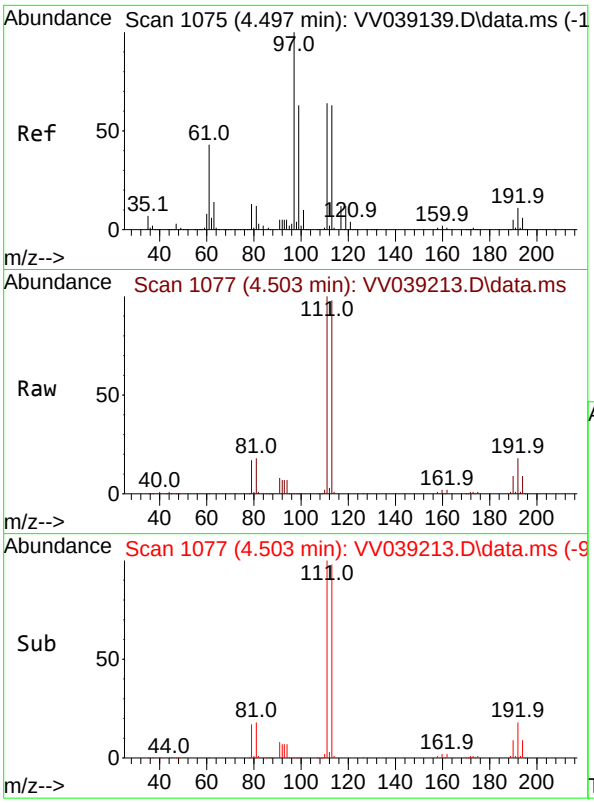




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VV039213.D
Acq: 26 Sep 2025 15:20

Tgt Ion:114 Resp: 819940

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.1 | 0.0 | 42.6 |
| 88 | 14.9 | 0.0 | 30.8 |



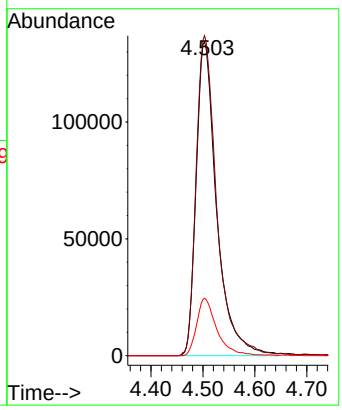


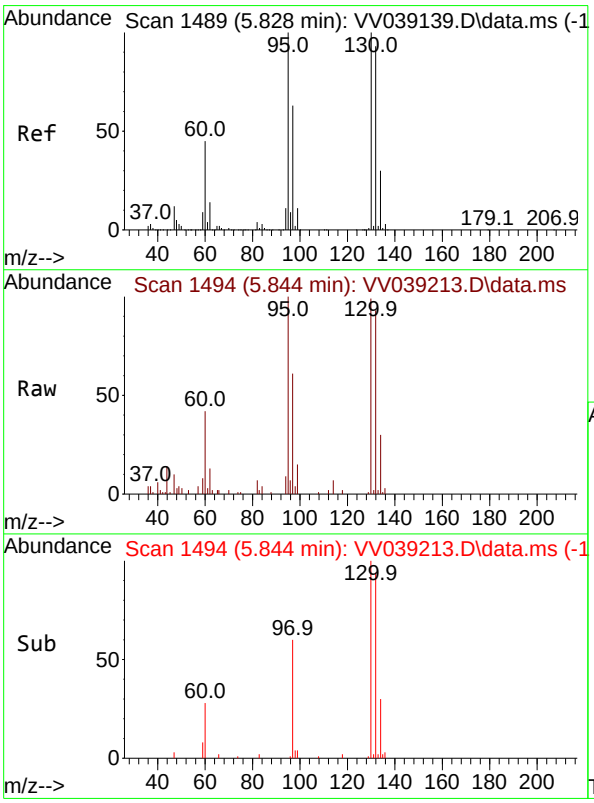

#35
Dibromofluoromethane
Concen: 55.979 ug/l
RT: 4.503 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039213.D
Acq: 26 Sep 2025 15:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-29-092325

Tgt Ion:113 Resp: 368992

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.4 | 82.4 | 123.6 |
| 192 | 17.9 | 13.8 | 20.8 |

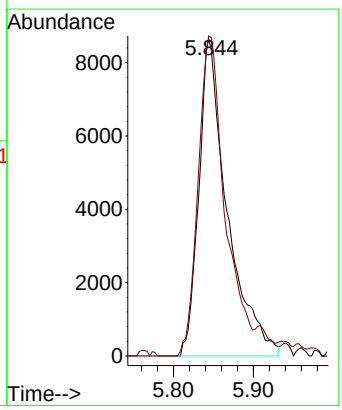


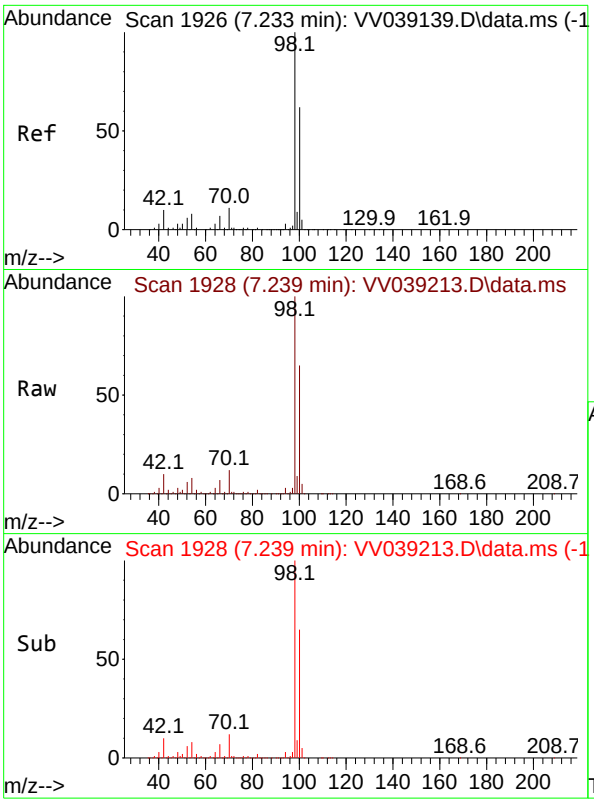




#44
Trichloroethene
Concen: 2.853 ug/l
RT: 5.844 min Scan# 1494
Delta R.T. 0.016 min
Lab File: VV039213.D
Acq: 26 Sep 2025 15:20

Tgt Ion:130 Resp: 21362

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 101.0 | 0.0 | 199.2 |



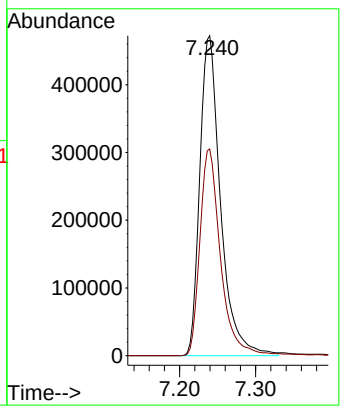


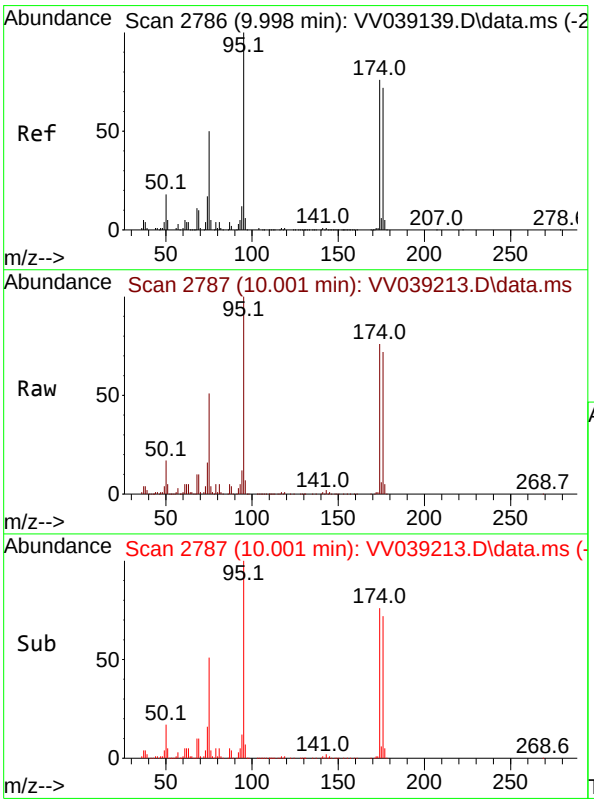

#50
Toluene-d8
Concen: 46.296 ug/l
RT: 7.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039213.D
Acq: 26 Sep 2025 15:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-29-092325

Tgt Ion: 98 Resp: 896272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.4 | 52.2 | 78.2 |

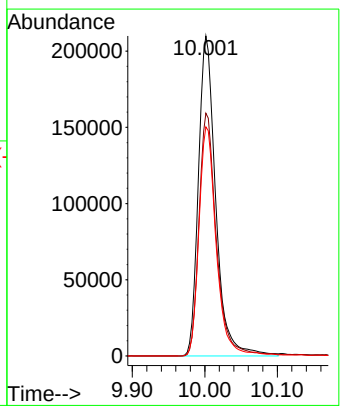


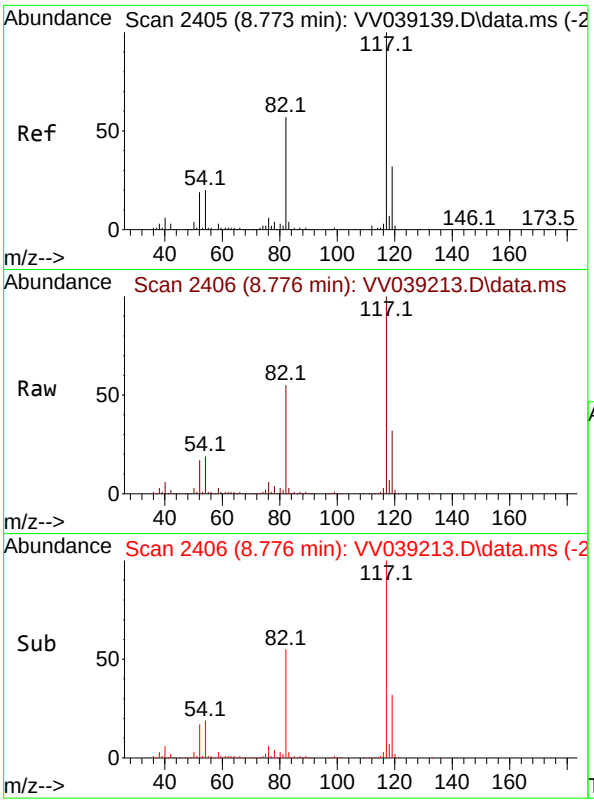




#62
4-Bromofluorobenzene
Concen: 43.710 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039213.D
Acq: 26 Sep 2025 15:20

Tgt Ion: 95 Resp: 348361

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 76.4 | 0.0 | 150.4 |
| 176 | 70.5 | 0.0 | 144.2 |



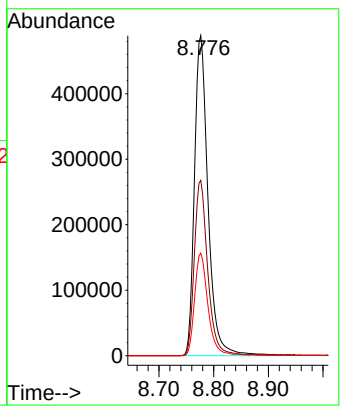


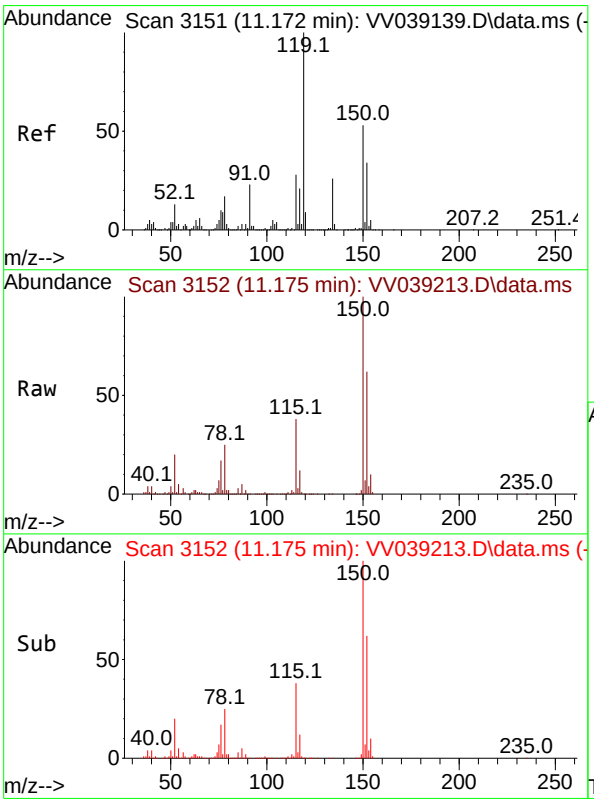

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039213.D
Acq: 26 Sep 2025 15:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-29-092325

Tgt Ion:117 Resp: 841715

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.8 | 45.4 | 68.2 |
| 119 | 32.0 | 25.6 | 38.4 |

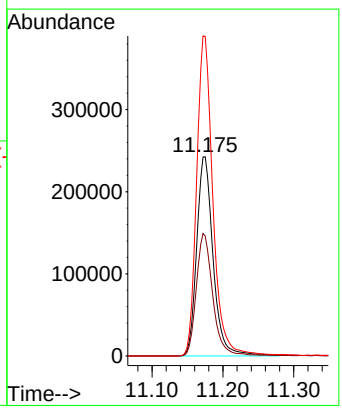



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039213.D
Acq: 26 Sep 2025 15:20

Tgt Ion:152 Resp: 391674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 61.8 | 44.8 | 134.4 |
| 150 | 159.3 | 0.0 | 353.8 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039213.D
Acq On : 26 Sep 2025 15:20
Operator : SY/MD
Sample : Q3195-14
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-29-092325

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039213.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 3.838 | 848 | 870 | 888 | rBV3 | 25184 | 80262 | 3.20% | 0.542% |
| 2 | 4.503 | 1058 | 1077 | 1096 | rBV2 | 440243 | 1162739 | 46.42% | 7.846% |
| 3 | 4.600 | 1096 | 1107 | 1145 | rVB | 534109 | 1428127 | 57.01% | 9.637% |
| 4 | 4.941 | 1200 | 1213 | 1248 | rBV | 442561 | 1110064 | 44.32% | 7.491% |
| 5 | 5.535 | 1381 | 1398 | 1438 | rBV | 826188 | 1954449 | 78.03% | 13.189% |
| 6 | 5.844 | 1485 | 1494 | 1510 | rBV3 | 45625 | 105099 | 4.20% | 0.709% |
| 7 | 7.240 | 1916 | 1928 | 1967 | rBV | 1226299 | 2379300 | 94.99% | 16.056% |
| 8 | 8.776 | 2392 | 2406 | 2442 | rBV | 1442221 | 2504830 | 100.00% | 16.903% |
| 9 | 10.001 | 2776 | 2787 | 2819 | rBV | 1008454 | 1699635 | 67.85% | 11.469% |
| 10 | 11.172 | 3140 | 3151 | 3184 | rBV | 1483545 | 2394647 | 95.60% | 16.159% |

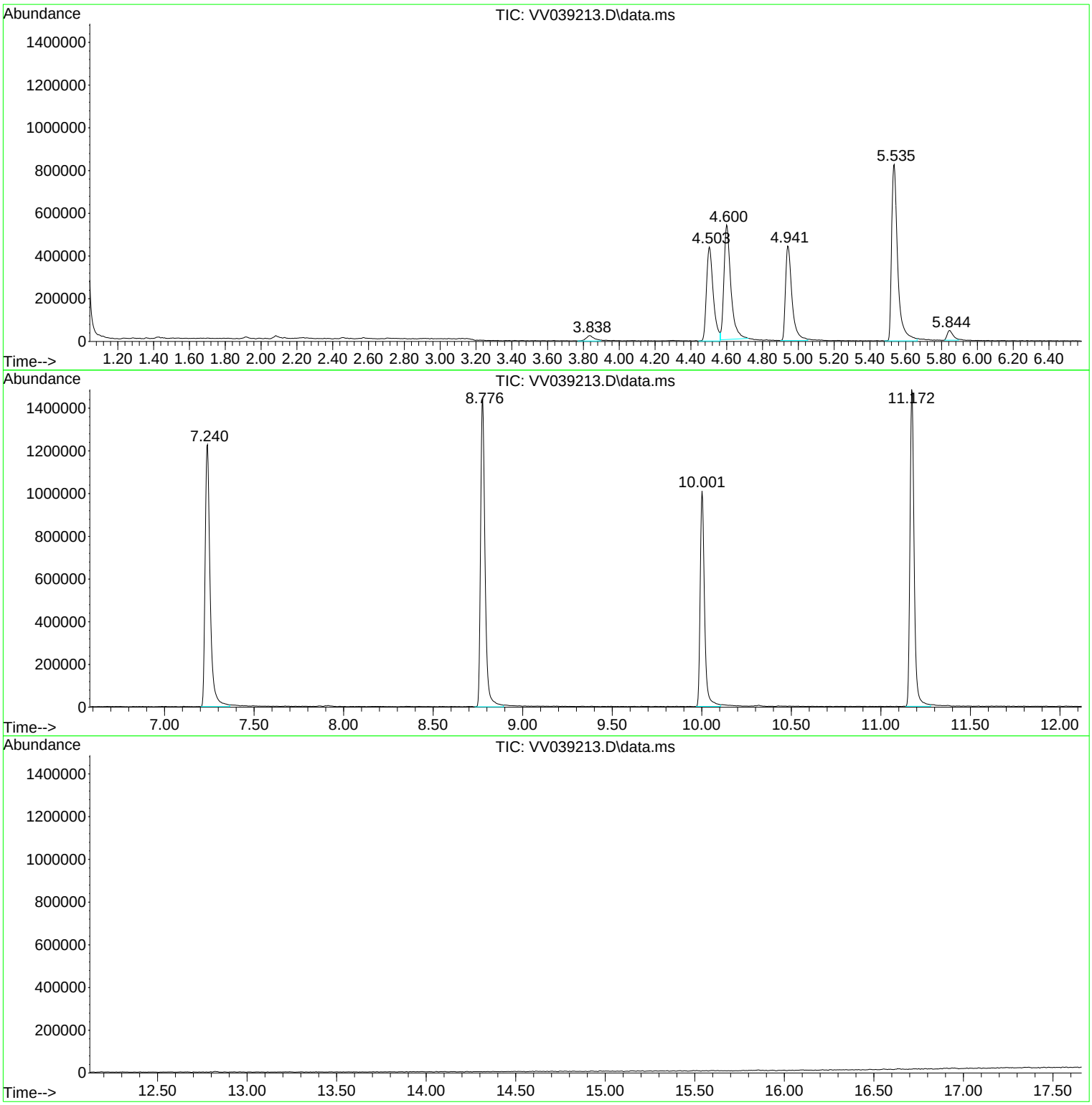
Sum of corrected areas: 14819152

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039213.D
Acq On : 26 Sep 2025 15:20
Operator : SY/MD
Sample : Q3195-14
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-29-092325

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039213.D
Acq On : 26 Sep 2025 15:20
Operator : SY/MD
Sample : Q3195-14
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-29-092325

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039213.D
Acq On : 26 Sep 2025 15:20
Operator : SY/MD
Sample : Q3195-14
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-29-092325

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/18/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-31S-091825 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-15 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039214.D | 1 | 09/26/25 15:43 | VV092625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 2.00 | | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.33 | U | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 280 | E | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 2.40 | | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 1.50 | U | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 0.27 | U | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 2.70 | | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 1.50 | U | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.25 | U | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 2.20 | | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.16 | U | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 28.3 | | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | U | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.14 | U | 0.14 | 1.00 | ug/L |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/18/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-31S-091825 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-15 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039214.D | 1 | 09/26/25 15:43 | VV092625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.15 | U | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | U | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | U | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.53 | U | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 62.3 | | 74 - 125 | 125% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 57.3 | | 75 - 124 | 115% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 48.4 | | 86 - 113 | 97% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 44.4 | | 77 - 121 | 89% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 445000 | 4.603 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 811000 | 5.535 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 838000 | 8.776 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 400000 | 11.172 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/18/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-31S-091825 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-15 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039214.D | 1 | 09/26/25 15:43 | VV092625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 000354-23-4 | Ethane, 1,2-dichloro-1,1,2-trifluo | 8.70 | J | | 1.92 | ug/L |
| 123-91-1 | 1,4-Dioxane | 40.1 | J | | 6.32 | ug/L |

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039214.D
Acq On : 26 Sep 2025 15:43
Operator : SY/MD
Sample : Q3195-15
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31S-091825

**Manual Integrations APPROVED**
Reviewed By :Mahesh Dadoda 10/28/2025
Supervised By :mohammad ahmed 10/28/2025

Quant Time: Sep 29 07:51:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.603 | 168 | 444783 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.535 | 114 | 811223 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.776 | 117 | 838423 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.172 | 152 | 399971 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.941 | 65 | 401052 | 62.301 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 124.600%# | | | |
| 35) Dibromofluoromethane | 4.503 | 113 | 373594 | 57.286 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 114.580% | | | |
| 50) Toluene-d8 | 7.236 | 98 | 927814 | 48.440 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 96.880% | | | |
| 62) 4-Bromofluorobenzene | 10.001 | 95 | 350123 | 44.403 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 88.800% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.098 | 85 | 14228 | 2.021 | ug/l | 97 |
| 9) 1,1,2-Trichlorotrifluo... | 2.082 | 101 | 1950855 | 279.858 | ug/l | 98 |
| 12) 1,1-Dichloroethene | 2.085 | 96 | 16213 | 2.418 | ug/l | 83 |
| 24) 1,1-Dichloroethane | 3.124 | 63 | 37925 | 2.706 | ug/l | 97 |
| 32) 1,1,1-Trichloroethane | 4.510 | 97 | 28259 | 2.230 | ug/l | 98 |
| 44) Trichloroethene | 5.831 | 130 | 209487 | 28.275 | ug/l | 98 |
| 49) 1,4-Dioxane | 6.320 | 88 | 4783m | 40.080 | ug/l | |

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

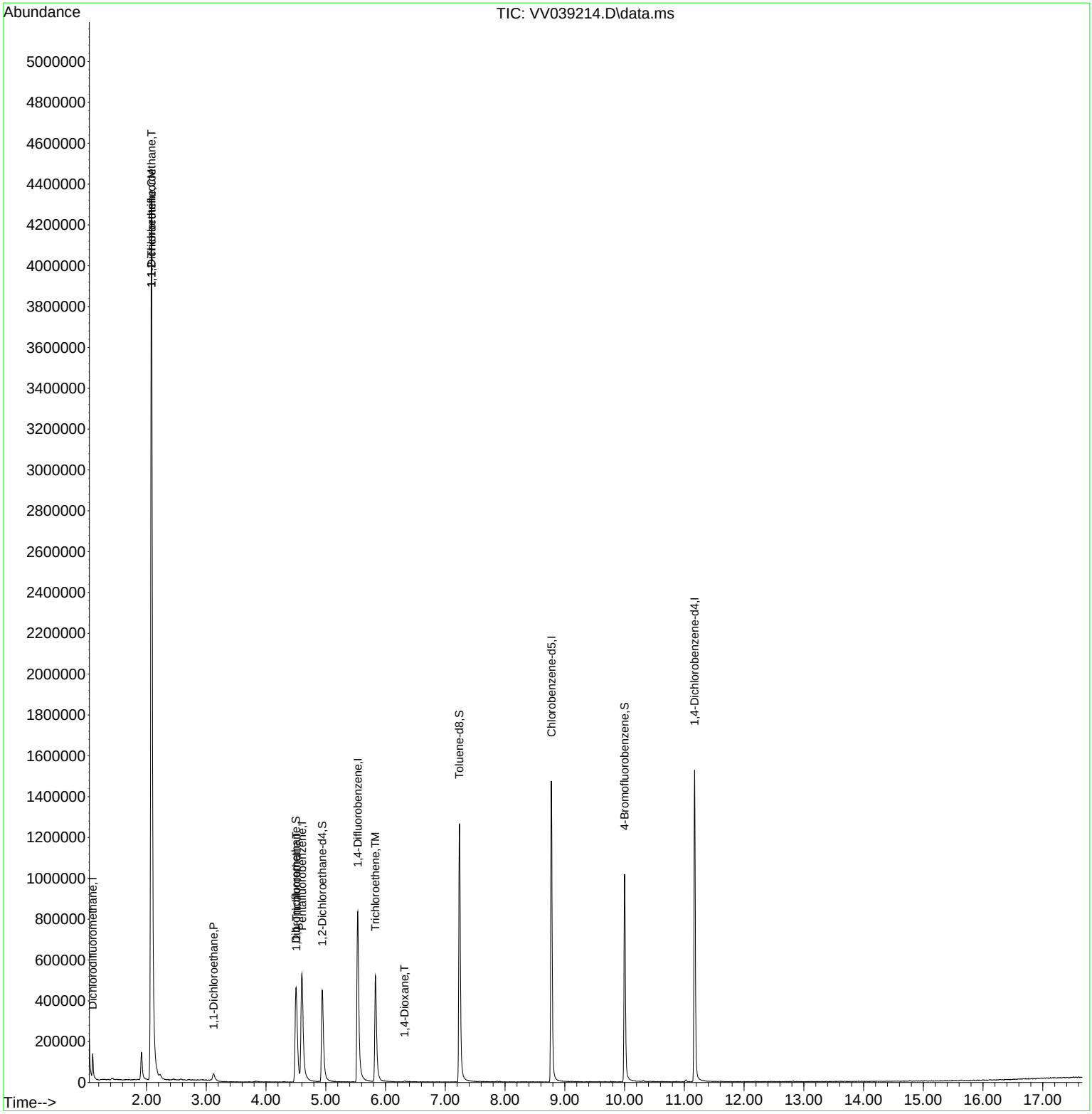
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039214.D
Acq On : 26 Sep 2025 15:43
Operator : SY/MD
Sample : Q3195-15
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 18 Sample Multiplier: 1

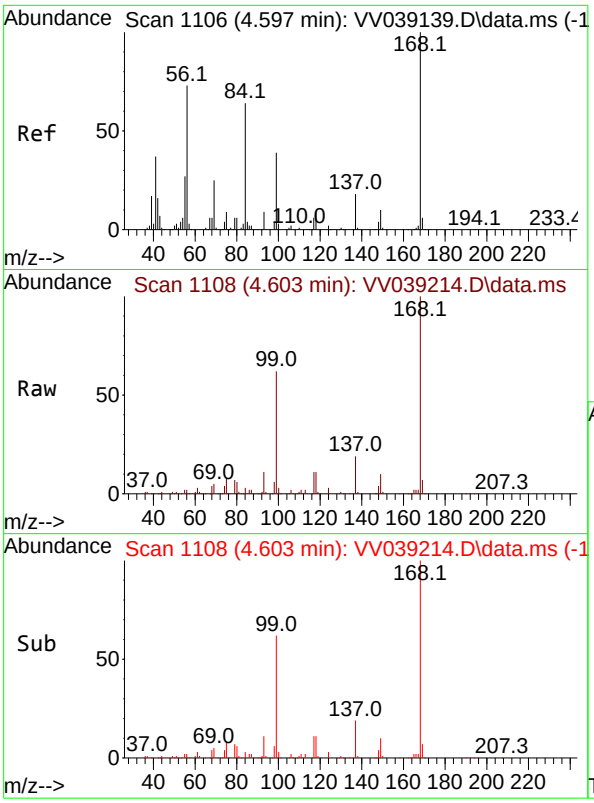
Quant Time: Sep 29 07:51:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31S-091825

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 10/28/2025
Supervised By :mohammad ahmed 10/28/2025

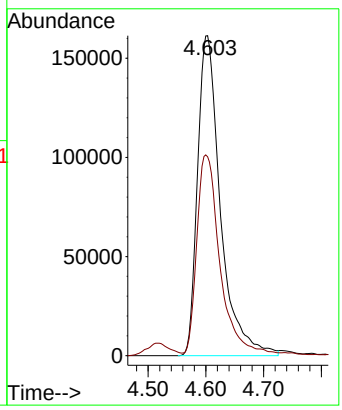





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

Tgt Ion:168 Resp: 44478

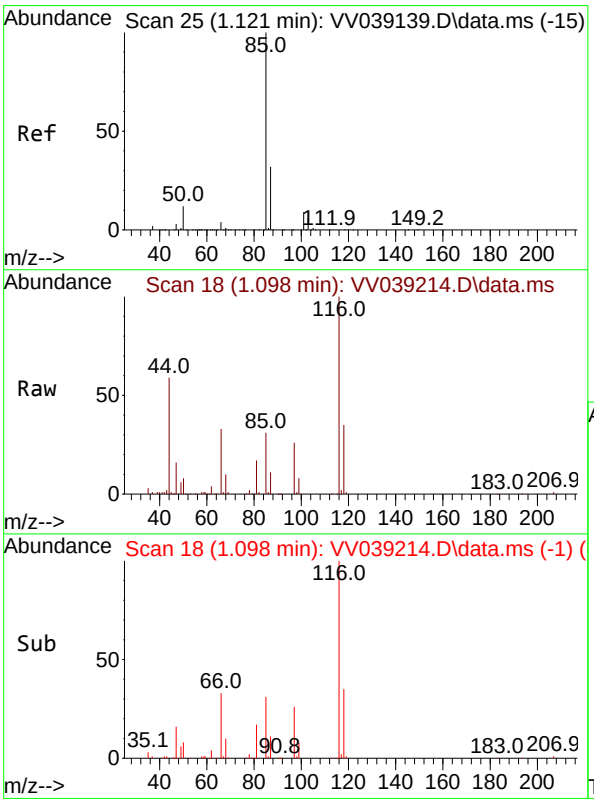
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 61.2 | 49.6 | 74.4 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31S-091825

**Manual Integrations**
**APPROVED**

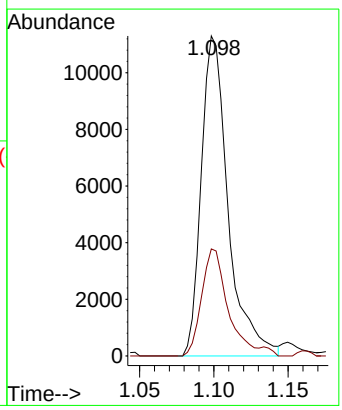
Reviewed By :Mahesh Dadoda 10/28/2025
Supervised By :mohammad ahmed 10/28/2025

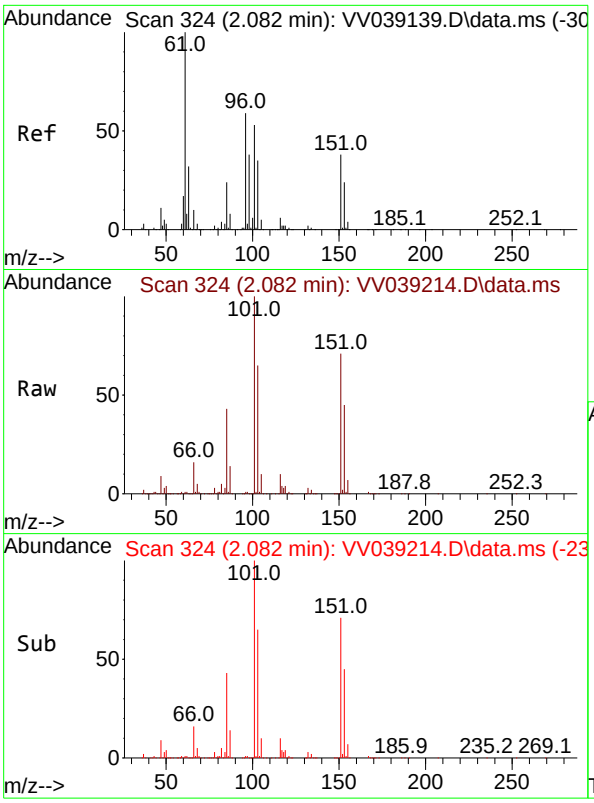



#2
Dichlorodifluoromethane
Concen: 2.021 ug/l
RT: 1.098 min Scan# 18
Delta R.T. -0.023 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

Tgt Ion: 85 Resp: 14228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.4 | 16.0 | 47.9 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 279.858 ug/l
RT: 2.082 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

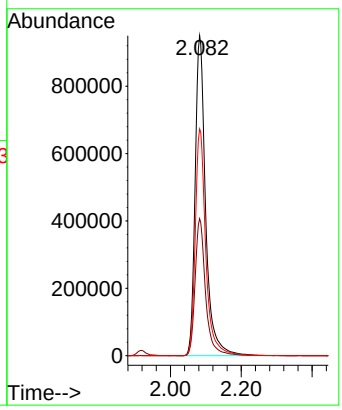
Tgt Ion:101 Resp: 195085

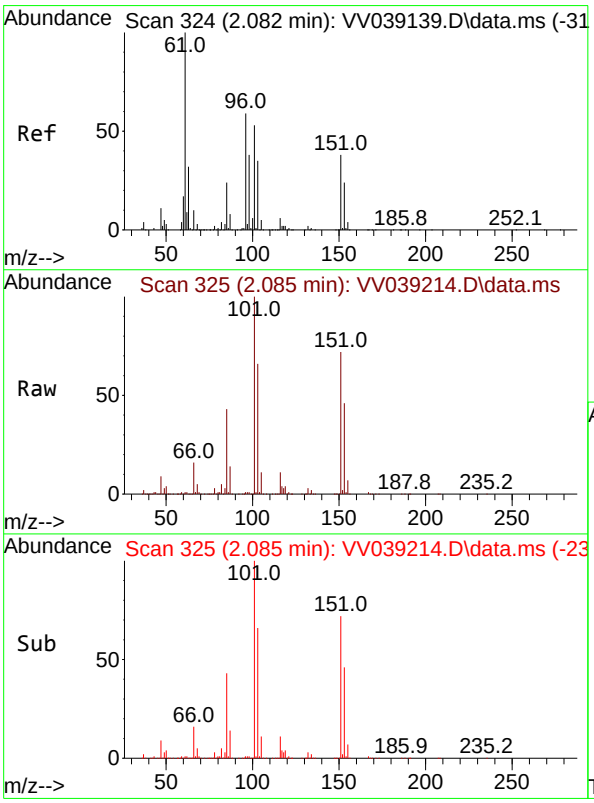
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 42.8 | 36.2 | 54.2 |
| 151 | 71.2 | 56.3 | 84.5 |

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31S-091825

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 10/28/2025
Supervised By :mohammad ahmed 10/28/2025

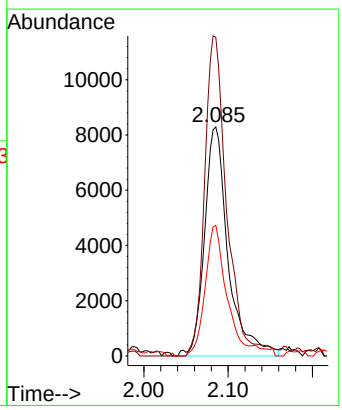


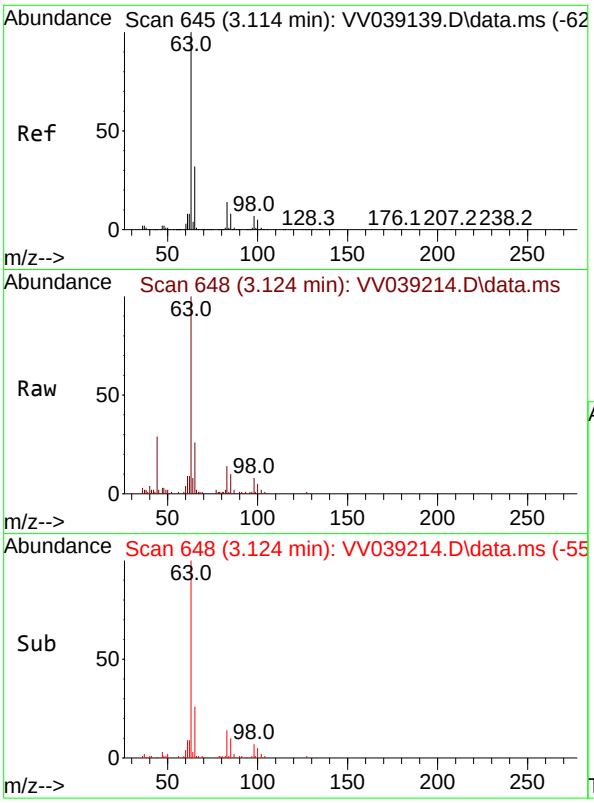




#12
1,1-Dichloroethene
Concen: 2.418 ug/l
RT: 2.085 min Scan# 325
Delta R.T. 0.003 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

Tgt Ion: 96 Resp: 16213

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 142.4 | 136.0 | 204.0 |
| 98 | 58.3 | 51.0 | 76.6 |

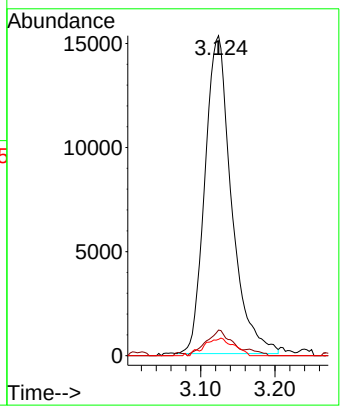





#24
1,1-Dichloroethane
Concen: 2.706 ug/l
RT: 3.124 min Scan# 64
Delta R.T. 0.010 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

Tgt Ion: 63 Resp: 3792

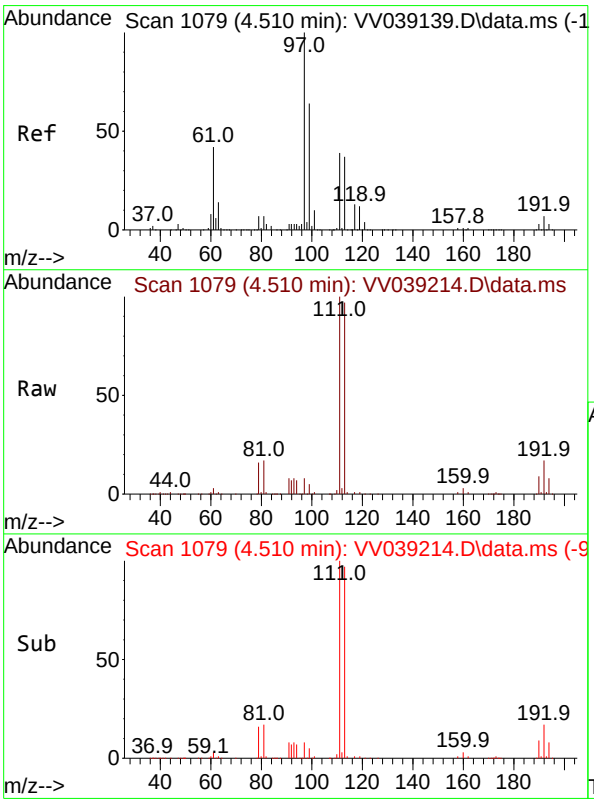
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 8.1 | 3.4 | 10.2 |
| 100 | 5.1 | 2.2 | 6.6 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31S-091825

**Manual Integrations**
**APPROVED**

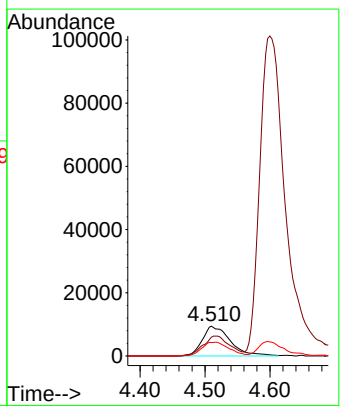
Reviewed By :Mahesh Dadoda 10/28/2025
Supervised By :mohammad ahmed 10/28/2025

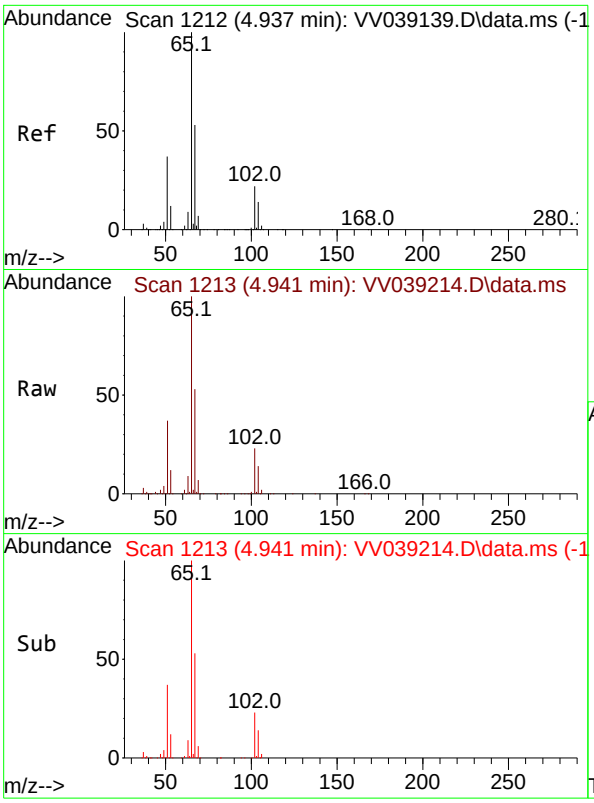



#32
1,1,1-Trichloroethane
Concen: 2.230 ug/l
RT: 4.510 min Scan# 1079
Delta R.T. 0.000 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

Tgt Ion: 97 Resp: 28259

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 62.5 | 49.6 | 74.4 |
| 61 | 44.9 | 34.5 | 51.7 |

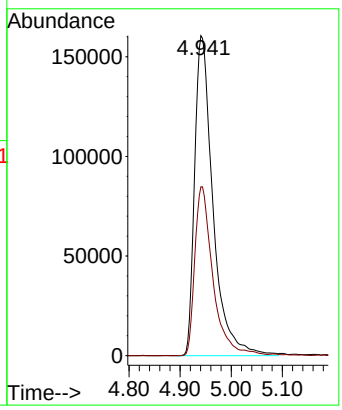





#33
1,2-Dichloroethane-d4
Concen: 62.301 ug/l
RT: 4.941 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

Tgt Ion: 65 Resp: 40105

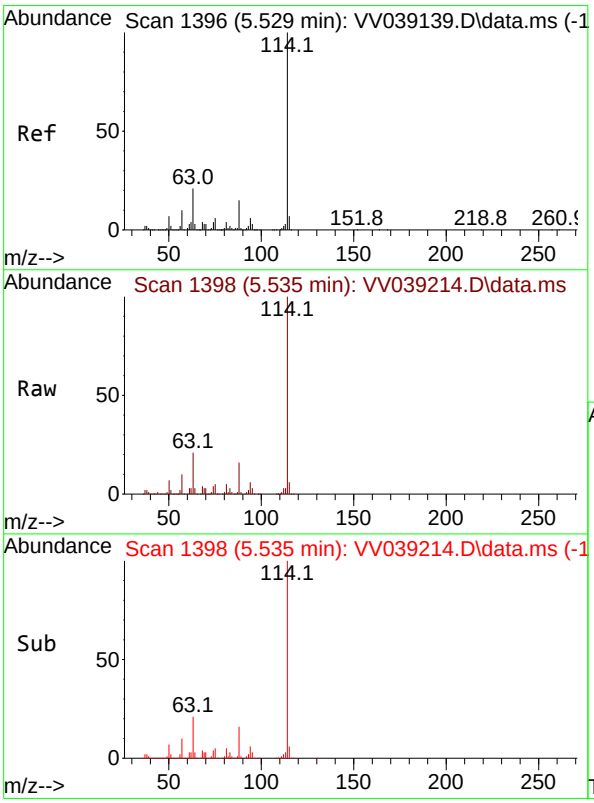
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.2 | 0.0 | 107.0 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31S-091825

**Manual Integrations**
**APPROVED**

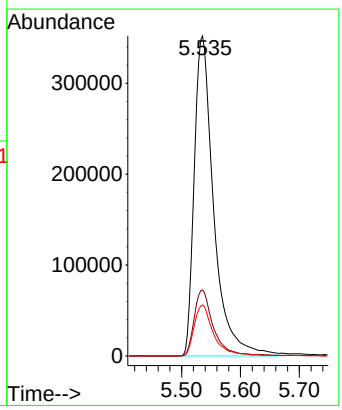
Reviewed By :Mahesh Dadoda 10/28/2025
Supervised By :mohammad ahmed 10/28/2025

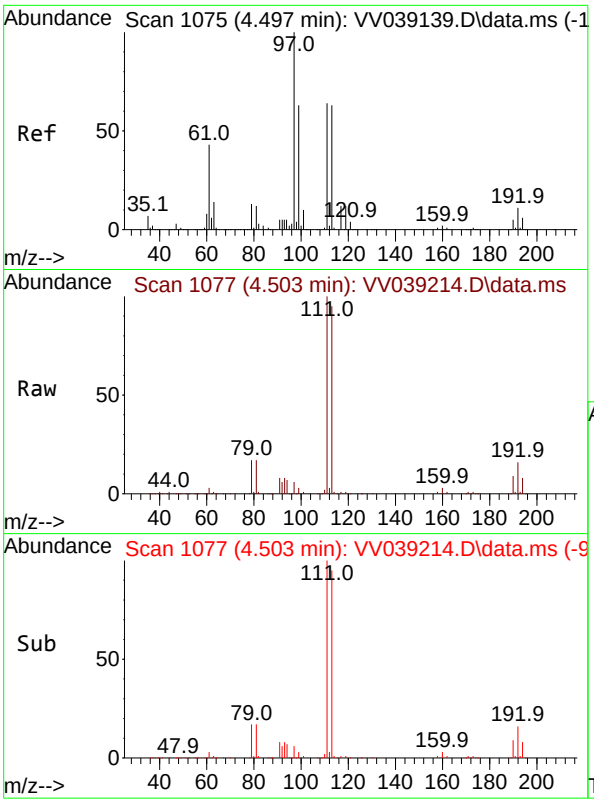



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

Tgt Ion:114 Resp: 811223

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.6 | 0.0 | 42.6 |
| 88 | 16.0 | 0.0 | 30.8 |

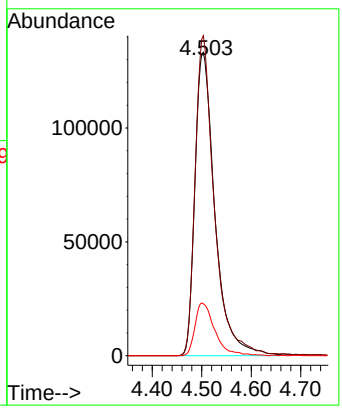





#35
Dibromofluoromethane
Concen: 57.286 ug/l
RT: 4.503 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

Tgt Ion:113 Resp: 37359

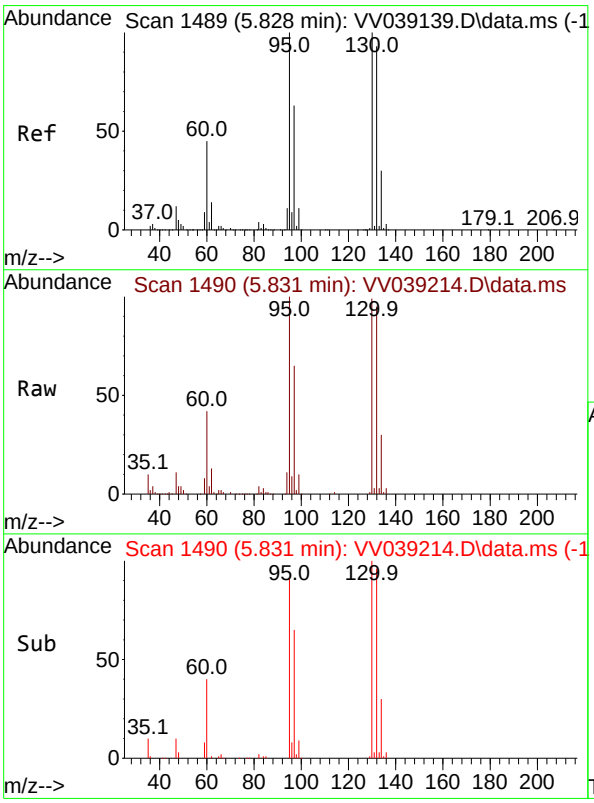
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.4 | 82.4 | 123.6 |
| 192 | 17.0 | 13.8 | 20.8 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31S-091825

**Manual Integrations APPROVED**

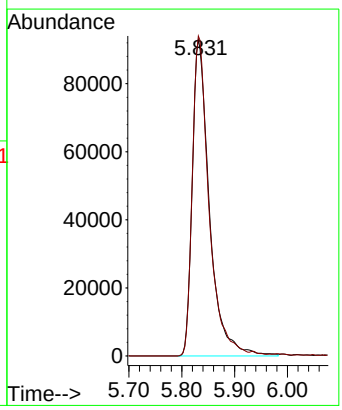
Reviewed By :Mahesh Dadoda 10/28/2025
Supervised By :mohammad ahmed 10/28/2025

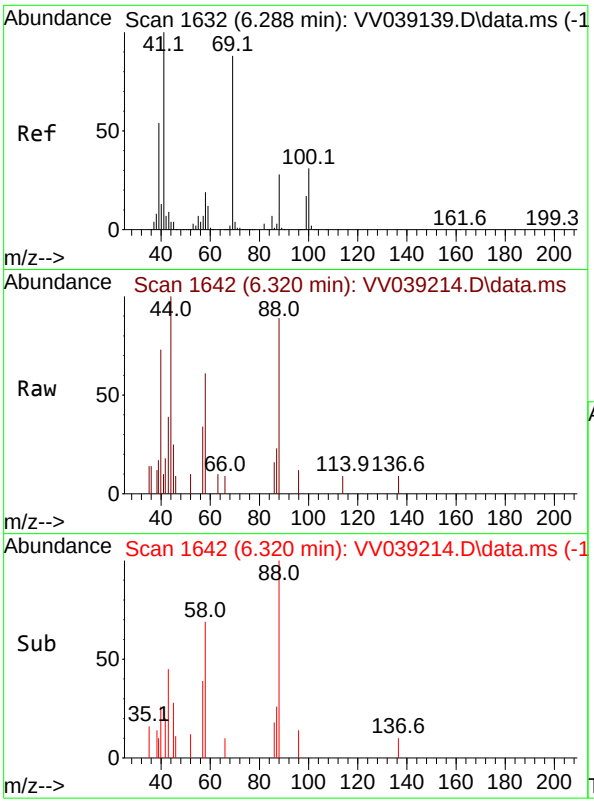



#44
Trichloroethene
Concen: 28.275 ug/l
RT: 5.831 min Scan# 1490
Delta R.T. 0.003 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

Tgt Ion:130 Resp: 209487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 101.2 | 0.0 | 199.2 |






#49
1,4-Dioxane
Concen: 40.080 ug/l m
RT: 6.320 min Scan# 1
Delta R.T. 0.032 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

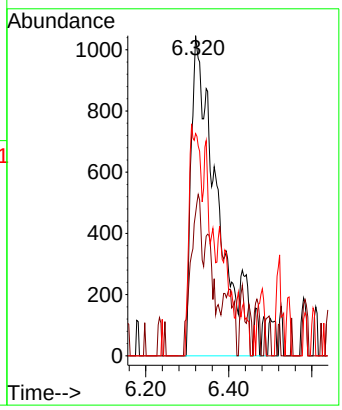
Tgt Ion: 88 Resp: 478

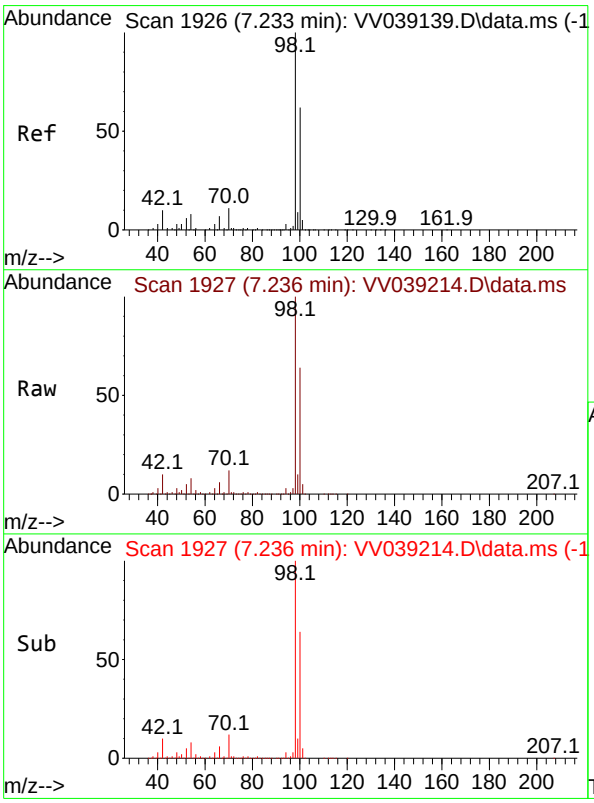
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 20.4 | 25.1 | 37.7# |
| 58 | 14.7 | 53.6 | 80.4# |

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31S-091825

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 10/28/2025
Supervised By :mohammad ahmed 10/28/2025

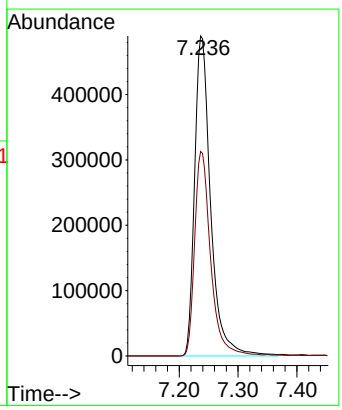


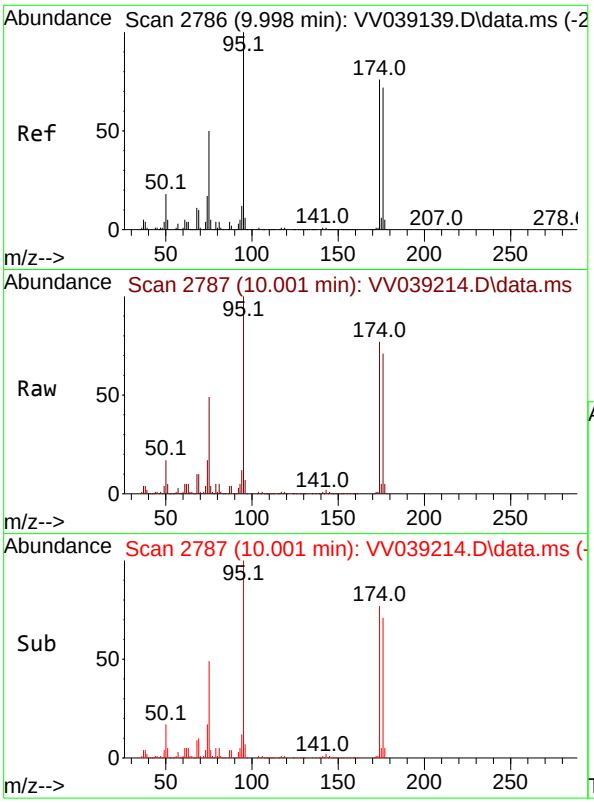




#50
Toluene-d8
Concen: 48.440 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.003 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

Tgt Ion: 98 Resp: 927814

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.7 | 52.2 | 78.2 |

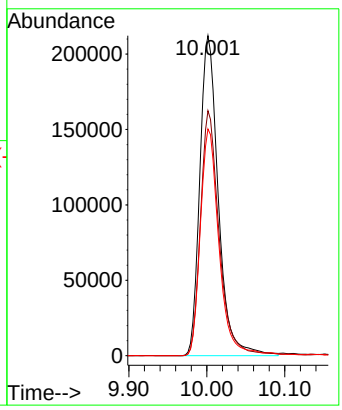





#62
4-Bromofluorobenzene
Concen: 44.403 ug/l
RT: 10.001 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

Tgt Ion: 95 Resp: 35012

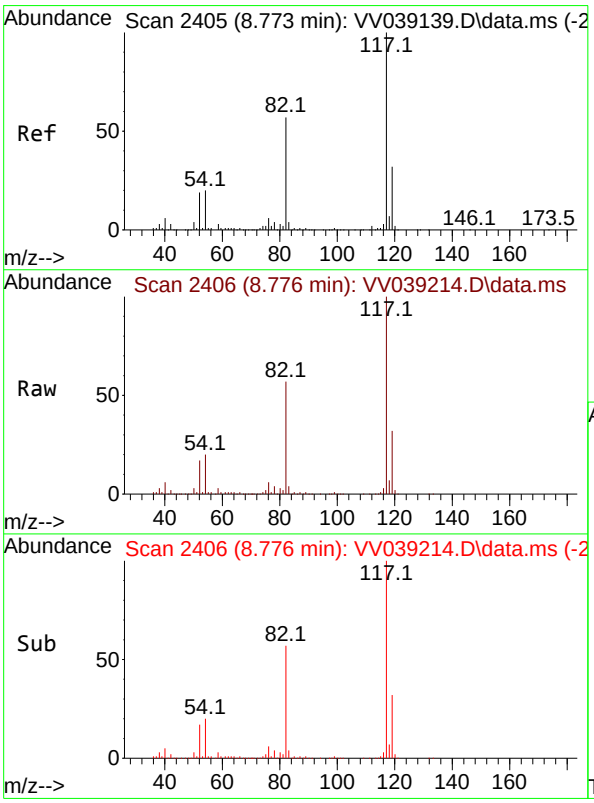
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 77.3 | 0.0 | 150.4 |
| 176 | 71.1 | 0.0 | 144.2 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31S-091825

**Manual Integrations**
**APPROVED**

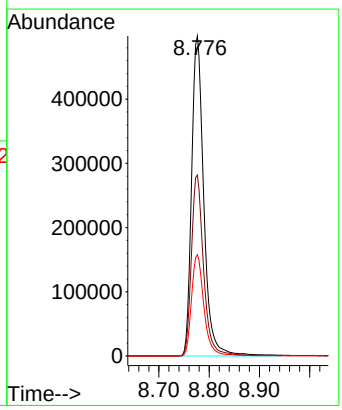
Reviewed By :Mahesh Dadoda 10/28/2025
Supervised By :mohammad ahmed 10/28/2025

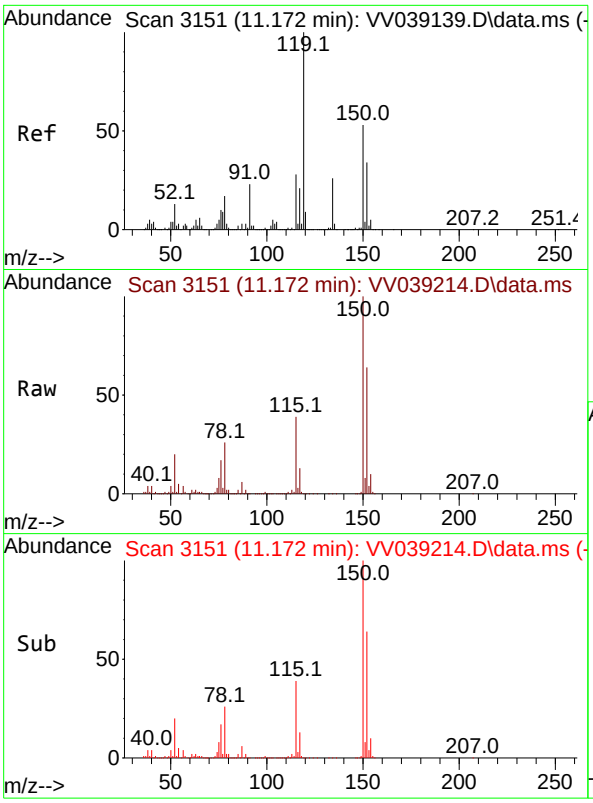



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

Tgt Ion:117 Resp: 838423

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 56.5 | 45.4 | 68.2 |
| 119 | 31.6 | 25.6 | 38.4 |

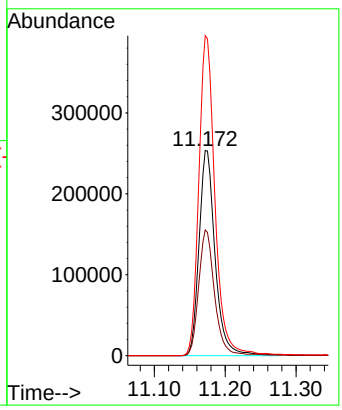





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039214.D
Acq: 26 Sep 2025 15:43

Tgt Ion:152 Resp: 39997

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 60.8 | 44.8 | 134.4 |
| 150 | 155.5 | 0.0 | 353.8 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31S-091825

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 10/28/2025
Supervised By :mohammad ahmed 10/28/2025

Sample Results: **VV039214.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039214.D
Acq On : 26 Sep 2025 15:43
Operator : SY/MD
Sample : Q3195-15
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31S-091825

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039214.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.098 | 13 | 18 | 39 | rVB | 127234 | 178492 | 2.01% | 0.702% |
| 2 | 1.915 | 262 | 272 | 292 | rBV | 134497 | 253579 | 2.86% | 0.998% |
| 3 | 2.082 | 310 | 324 | 362 | rBV | 4313191 | 8860623 | 100.00% | 34.865% |
| 4 | 3.124 | 635 | 648 | 680 | rVB3 | 37352 | 121456 | 1.37% | 0.478% |
| 5 | 4.503 | 1055 | 1077 | 1096 | rBV2 | 462416 | 1252894 | 14.14% | 4.930% |
| 6 | 4.600 | 1096 | 1107 | 1147 | rVB2 | 523315 | 1455024 | 16.42% | 5.725% |
| 7 | 4.941 | 1202 | 1213 | 1249 | rBV | 447677 | 1107658 | 12.50% | 4.358% |
| 8 | 5.535 | 1383 | 1398 | 1437 | rBV | 834367 | 1959033 | 22.11% | 7.708% |
| 9 | 5.831 | 1478 | 1490 | 1520 | rBV2 | 517547 | 1126172 | 12.71% | 4.431% |
| 10 | 7.236 | 1916 | 1927 | 1971 | rBV | 1263996 | 2429374 | 27.42% | 9.559% |
| 11 | 8.776 | 2392 | 2406 | 2439 | rBV | 1473949 | 2529046 | 28.54% | 9.951% |
| 12 | 10.001 | 2775 | 2787 | 2819 | rBV | 1016591 | 1723633 | 19.45% | 6.782% |
| 13 | 11.172 | 3139 | 3151 | 3182 | rBV | 1525058 | 2417079 | 27.28% | 9.511% |

Sum of corrected areas: 25414063

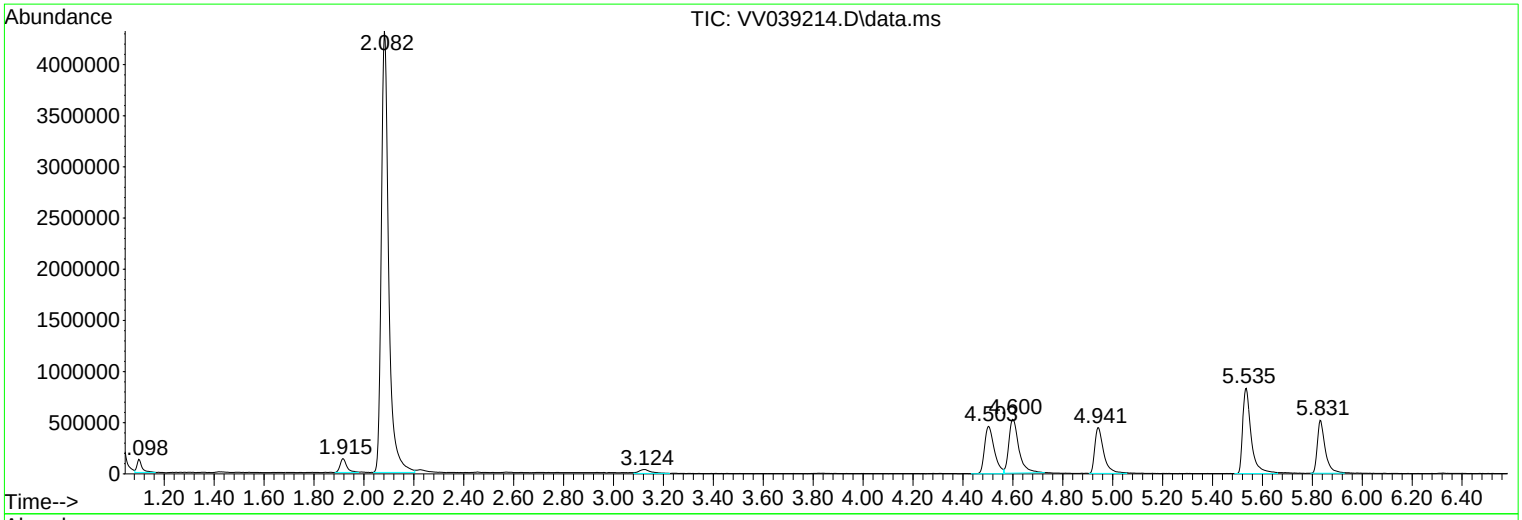
Sample Results: **VV039214.D**

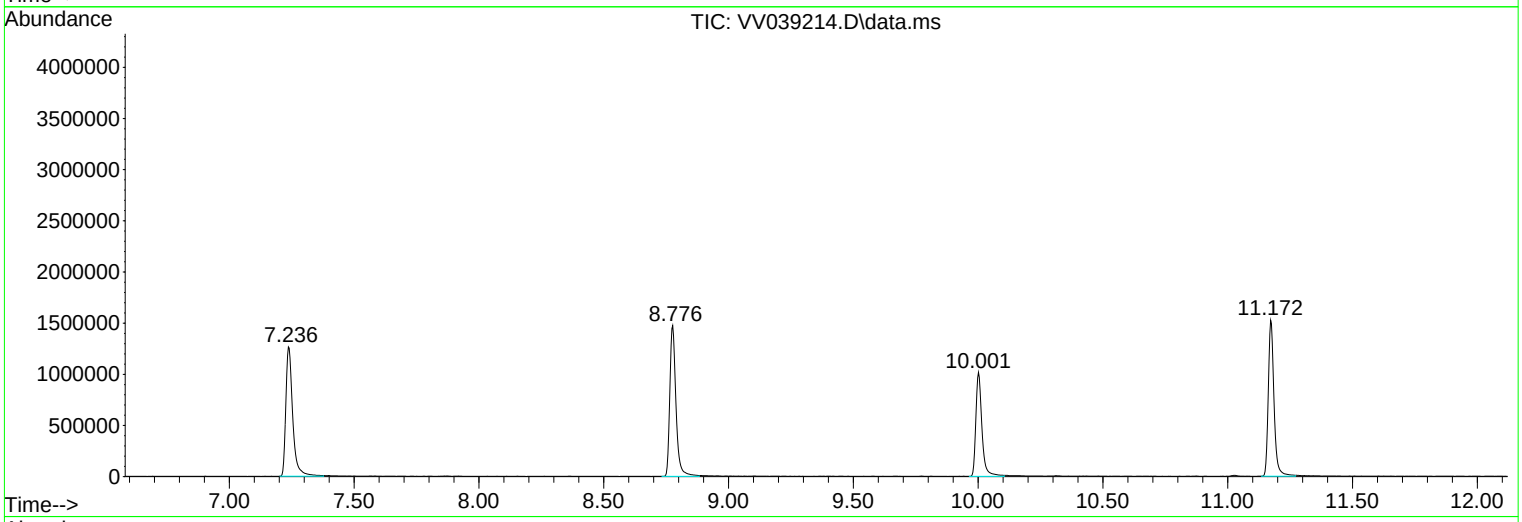
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039214.D
Acq On : 26 Sep 2025 15:43
Operator : SY/MD
Sample : Q3195-15
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 18 Sample Multiplier: 1

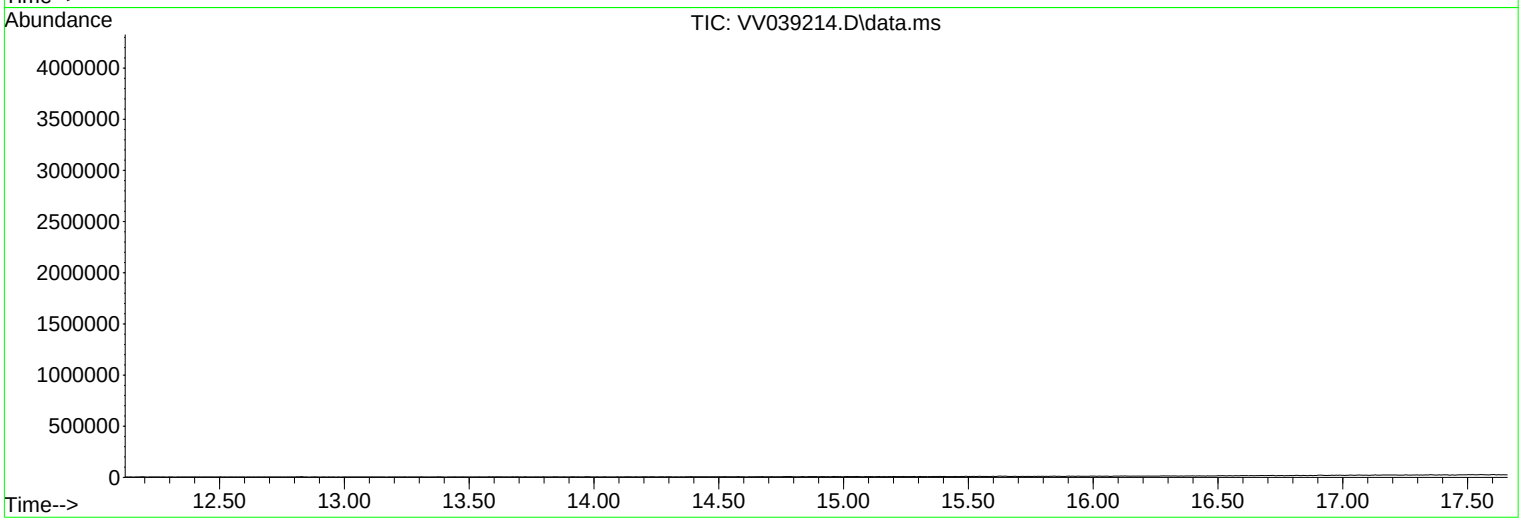
**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31S-091825

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039214.D
Acq On : 26 Sep 2025 15:43
Operator : SY/MD
Sample : Q3195-15
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31S-091825

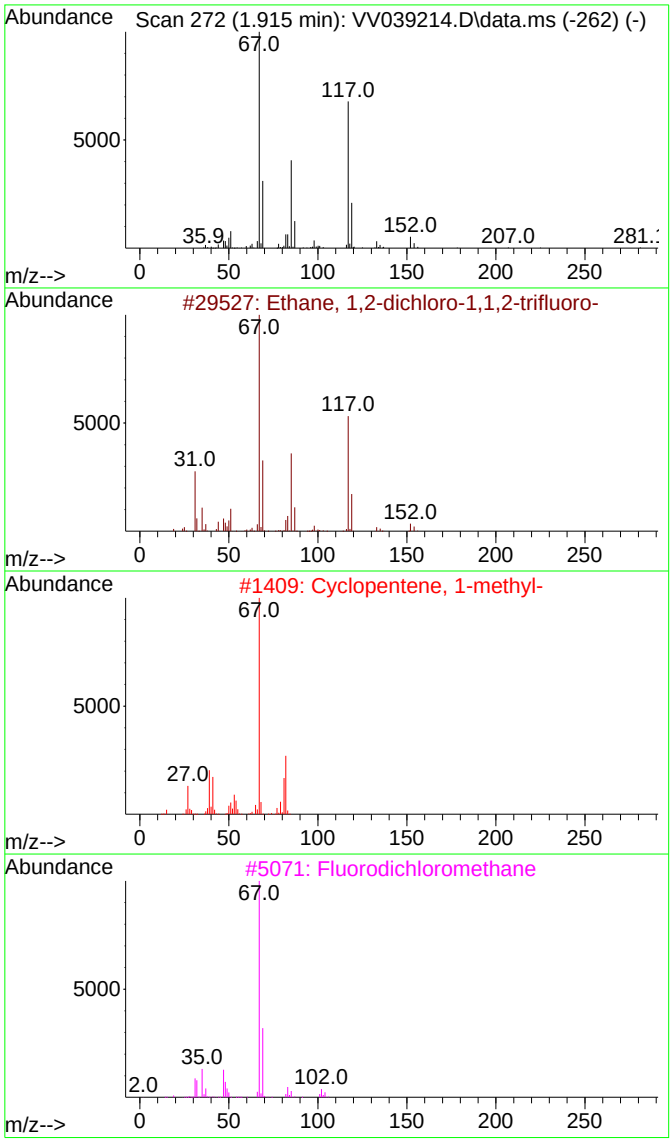
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

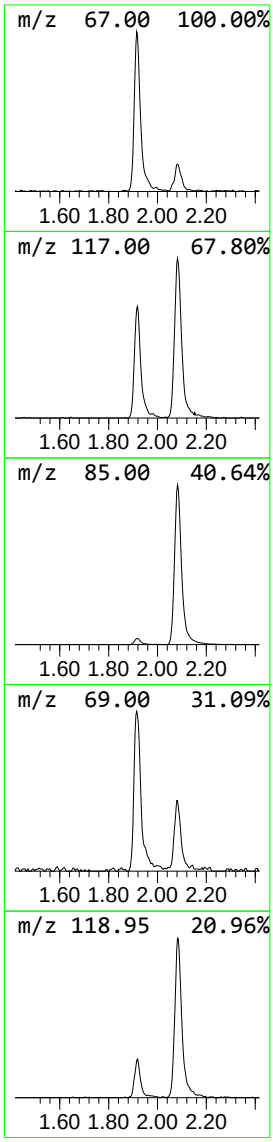
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 1 Ethane, 1,2-dichloro-1,1,2-... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.915 | 8.71 ug/l | 253579 | Pentafluorobenzene | 4.603 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Ethane, 1,2-dichloro-1,1,2-trifl... | 152 | C2HCl2F3 | 000354-23-4 | 90 |
| 2 | Cyclopentene, 1-methyl- | 82 | C6H10 | 000693-89-0 | 27 |
| 3 | Fluorodichloromethane | 102 | CHCl2F | 000075-43-4 | 17 |
| 4 | 1-Butyne, 3,3-dimethyl- | 82 | C6H10 | 000917-92-0 | 16 |
| 5 | 1,4-Pentadiene, 3-methyl- | 82 | C6H10 | 001115-08-8 | 16 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039214.D
Acq On : 26 Sep 2025 15:43
Operator : SY/MD
Sample : Q3195-15
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31S-091825

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Ethane, 1,2-dic... | 1.915 | 8.7 | ug/l | 253579 | 1 | 4.603 | 1455020 | 50.0 |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/18/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-31S-091825DL | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-15DL | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039226.D | 5 | 09/29/25 13:08 | VV092925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 1.10 | UD | 1.10 | 5.00 | ug/L |
| 74-87-3 | Chloromethane | 1.60 | UD | 1.60 | 5.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 1.30 | UD | 1.30 | 5.00 | ug/L |
| 74-83-9 | Bromomethane | 7.20 | UD | 7.20 | 25.0 | ug/L |
| 75-00-3 | Chloroethane | 2.40 | UD | 2.40 | 5.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 1.70 | UD | 1.70 | 5.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 220 | D | 1.30 | 5.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 1.20 | UD | 1.20 | 5.00 | ug/L |
| 67-64-1 | Acetone | 7.60 | UD | 7.60 | 25.0 | ug/L |
| 75-15-0 | Carbon Disulfide | 1.10 | UD | 1.10 | 5.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.80 | UD | 0.80 | 5.00 | ug/L |
| 79-20-9 | Methyl Acetate | 1.40 | UD | 1.40 | 5.00 | ug/L |
| 75-09-2 | Methylene Chloride | 1.40 | UD | 1.40 | 5.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 1.20 | UD | 1.20 | 5.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 1.20 | UD | 1.20 | 5.00 | ug/L |
| 110-82-7 | Cyclohexane | 7.30 | UD | 7.30 | 25.0 | ug/L |
| 78-93-3 | 2-Butanone | 4.90 | UD | 4.90 | 25.0 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 1.30 | UD | 1.30 | 5.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.95 | UD | 0.95 | 5.00 | ug/L |
| 74-97-5 | Bromochloromethane | 1.10 | UD | 1.10 | 5.00 | ug/L |
| 67-66-3 | Chloroform | 1.30 | UD | 1.30 | 5.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 1.00 | UD | 1.00 | 5.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.80 | UD | 0.80 | 5.00 | ug/L |
| 71-43-2 | Benzene | 0.75 | UD | 0.75 | 5.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 1.10 | UD | 1.10 | 5.00 | ug/L |
| 79-01-6 | Trichloroethene | 25.1 | D | 0.47 | 5.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 1.00 | UD | 1.00 | 5.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 1.10 | UD | 1.10 | 5.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 3.40 | UDQ | 3.40 | 25.0 | ug/L |
| 108-88-3 | Toluene | 0.70 | UDQ | 0.70 | 5.00 | ug/L |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/18/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-31S-091825DL | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-15DL | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039226.D | 5 | 09/29/25 13:08 | VV092925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.85 | UD | 0.85 | 5.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.80 | UD | 0.80 | 5.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 1.10 | UD | 1.10 | 5.00 | ug/L |
| 591-78-6 | 2-Hexanone | 4.50 | UD | 4.50 | 25.0 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.90 | UD | 0.90 | 5.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.75 | UDQ | 0.75 | 5.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 1.20 | UD | 1.20 | 5.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.60 | UD | 0.60 | 5.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.65 | UD | 0.65 | 5.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 1.20 | UDQ | 1.20 | 10.0 | ug/L |
| 95-47-6 | o-Xylene | 0.60 | UD | 0.60 | 5.00 | ug/L |
| 100-42-5 | Styrene | 0.75 | UD | 0.75 | 5.00 | ug/L |
| 75-25-2 | Bromoform | 0.95 | UDQ | 0.95 | 5.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.60 | UD | 0.60 | 5.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.30 | UD | 1.30 | 5.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.80 | UD | 0.80 | 5.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.95 | UD | 0.95 | 5.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.80 | UD | 0.80 | 5.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 2.70 | UD | 2.70 | 5.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.00 | UD | 1.00 | 5.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 1.00 | UD | 1.00 | 5.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 51.6 | | 74 - 125 | 103% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 52.3 | | 75 - 124 | 105% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 45.0 | | 86 - 113 | 90% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 44.7 | | 77 - 121 | 89% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 520000 | 4.6 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 886000 | 5.535 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 868000 | 8.776 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 445000 | 11.175 | | | |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/18/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-31S-091825DL | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-15DL | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039226.D | 5 | 09/29/25 13:08 | VV092925 |

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039226.D
Acq On : 29 Sep 2025 13:08
Operator : SY/MD
Sample : Q3195-15DL 5X
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31S-091825DL

Quant Time: Sep 30 01:24:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

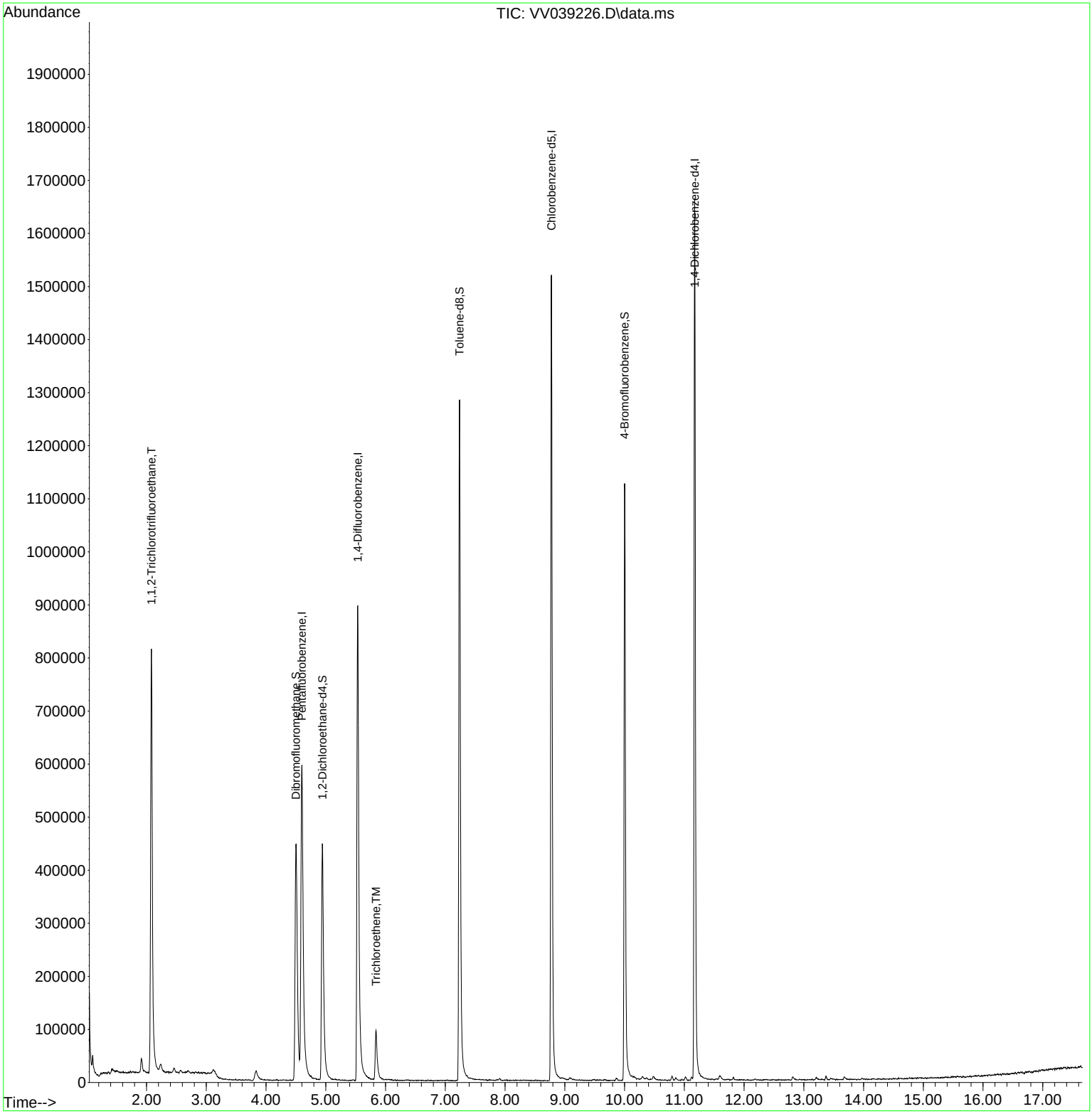
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.600 | 168 | 520194 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.535 | 114 | 885532 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.776 | 117 | 868036 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.175 | 152 | 445110 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.944 | 65 | 388329 | 51.579 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 103.160% | | | |
| 35) Dibromofluoromethane | 4.503 | 113 | 372446 | 52.317 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 104.640% | | | |
| 50) Toluene-d8 | 7.239 | 98 | 941881 | 45.048 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 90.100% | | | |
| 62) 4-Bromofluorobenzene | 10.001 | 95 | 384328 | 44.651 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 89.300% | | | |
| Target Compounds | | | | | | Qvalue |
| 9) 1,1,2-Trichlorotrifluo... | 2.082 | 101 | 357606 | 43.863 | ug/l | 96 |
| 44) Trichloroethene | 5.841 | 130 | 40560 | 5.015 | ug/l | 90 |

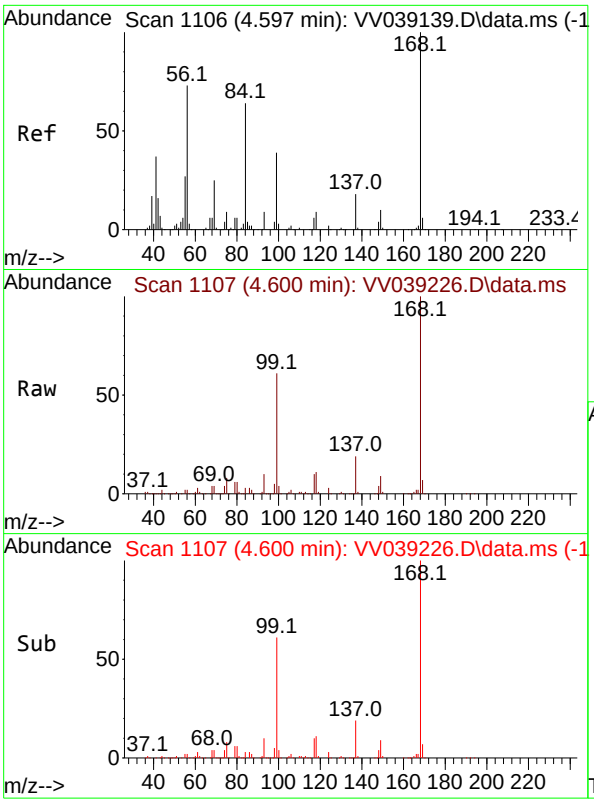
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039226.D
Acq On : 29 Sep 2025 13:08
Operator : SY/MD
Sample : Q3195-15DL 5X
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31S-091825DL

Quant Time: Sep 30 01:24:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



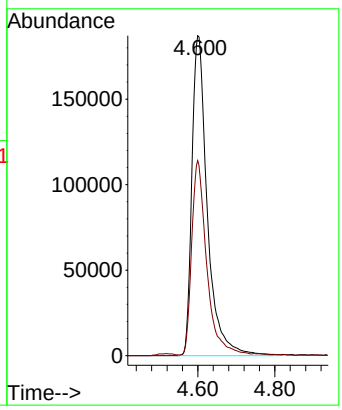


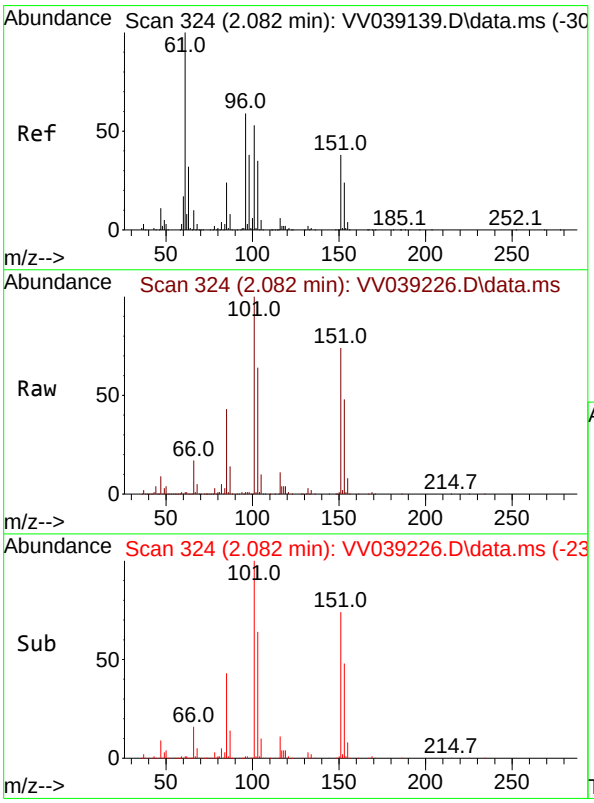

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039226.D
Acq: 29 Sep 2025 13:08

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31S-091825DL

Tgt Ion:168 Resp: 520194

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 60.7 | 49.6 | 74.4 |

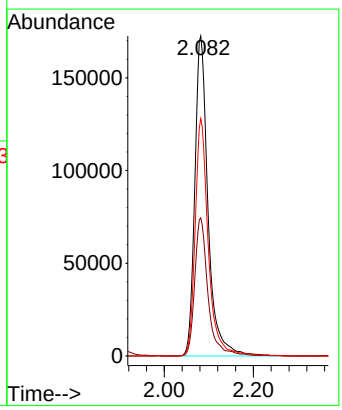


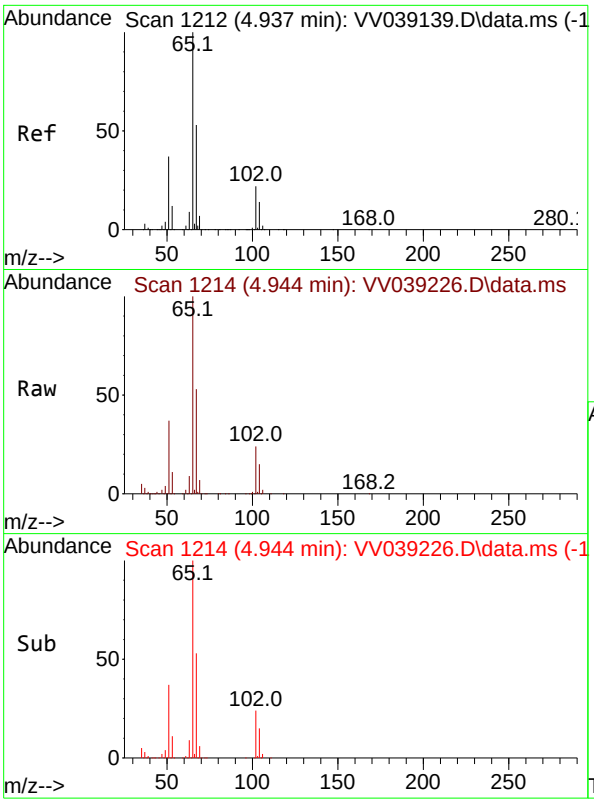




#9
1,1,2-Trichlorotrifluoroethane
Concen: 43.863 ug/l
RT: 2.082 min Scan# 324
Delta R.T. -0.000 min
Lab File: VV039226.D
Acq: 29 Sep 2025 13:08

Tgt Ion:101 Resp: 357606

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 43.3 | 36.2 | 54.2 |
| 151 | 73.8 | 56.3 | 84.5 |



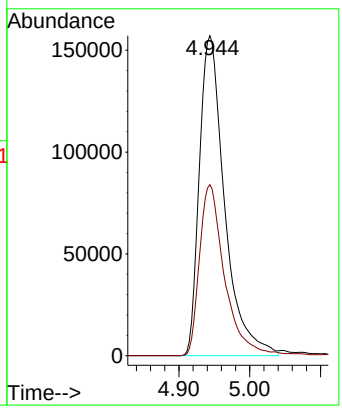


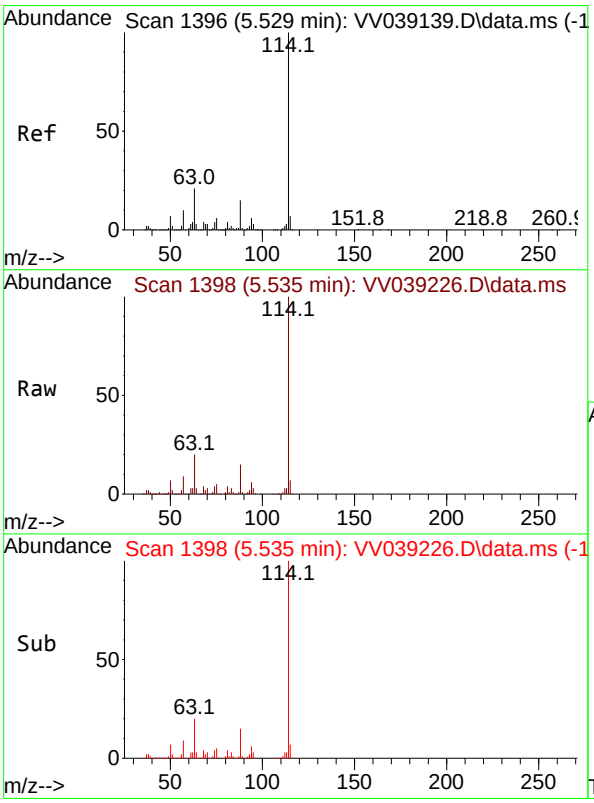

#33
1,2-Dichloroethane-d4
Concen: 51.579 ug/l
RT: 4.944 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039226.D
Acq: 29 Sep 2025 13:08

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31S-091825DL

Tgt Ion: 65 Resp: 388329

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.4 | 0.0 | 107.0 |

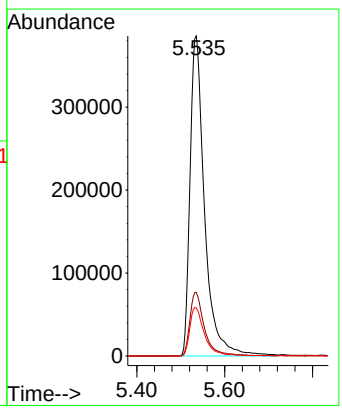


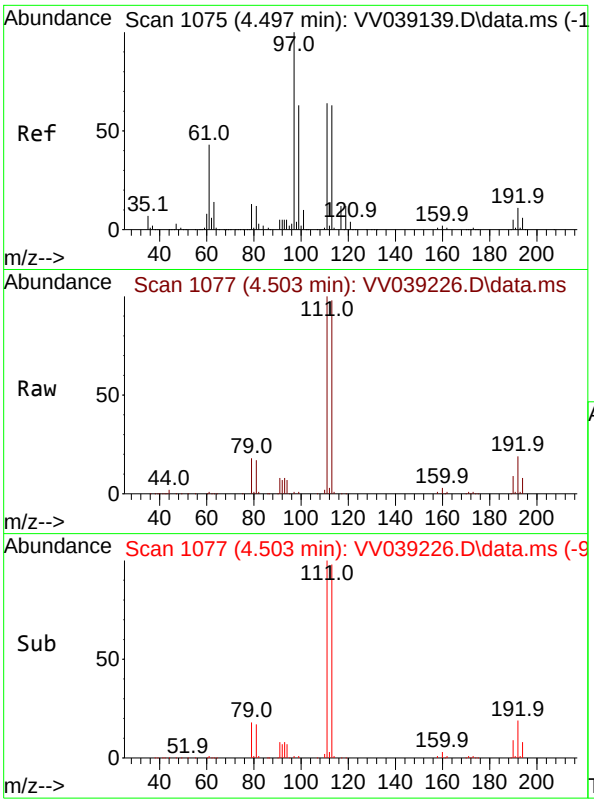




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VV039226.D
Acq: 29 Sep 2025 13:08

Tgt Ion:114 Resp: 885532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.8 | 0.0 | 42.6 |
| 88 | 15.0 | 0.0 | 30.8 |



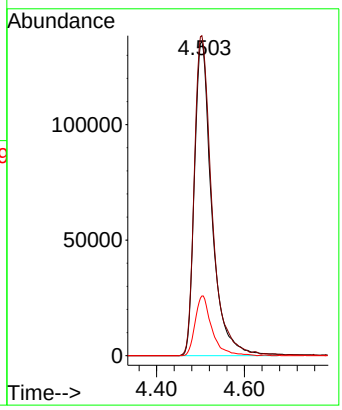


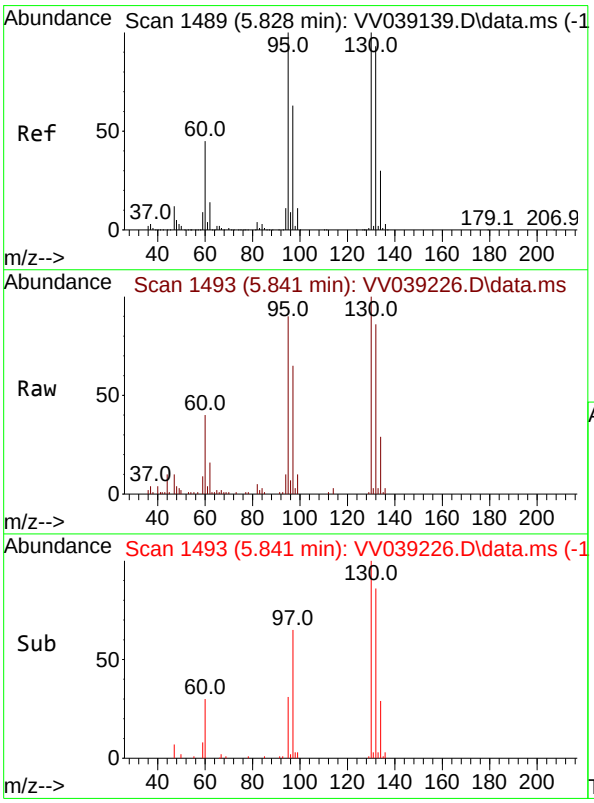

#35
Dibromofluoromethane
Concen: 52.317 ug/l
RT: 4.503 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039226.D
Acq: 29 Sep 2025 13:08

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31S-091825DL

Tgt Ion:113 Resp: 372446

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.7 | 82.4 | 123.6 |
| 192 | 18.3 | 13.8 | 20.8 |

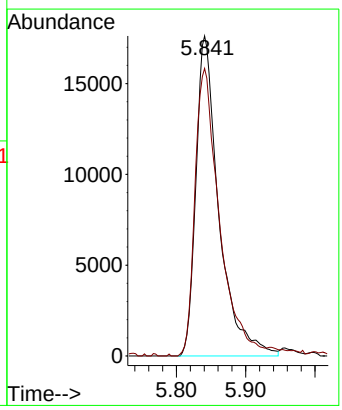


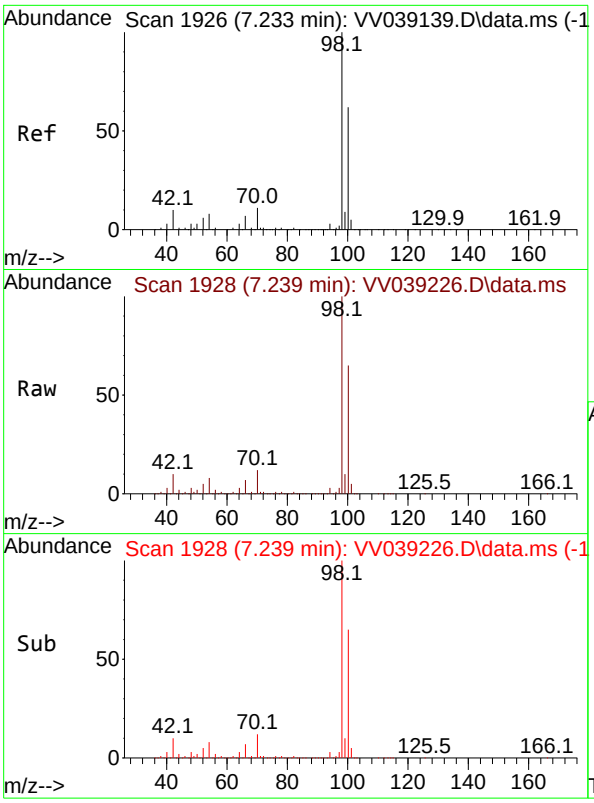




#44
Trichloroethene
Concen: 5.015 ug/l
RT: 5.841 min Scan# 1493
Delta R.T. 0.013 min
Lab File: VV039226.D
Acq: 29 Sep 2025 13:08

Tgt Ion:130 Resp: 40560

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 89.9 | 0.0 | 199.2 |



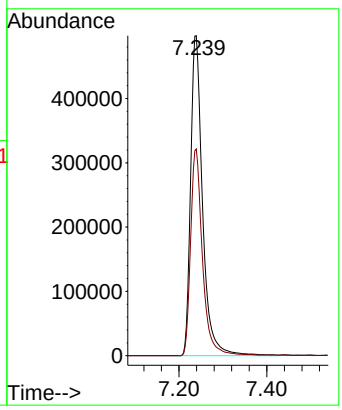


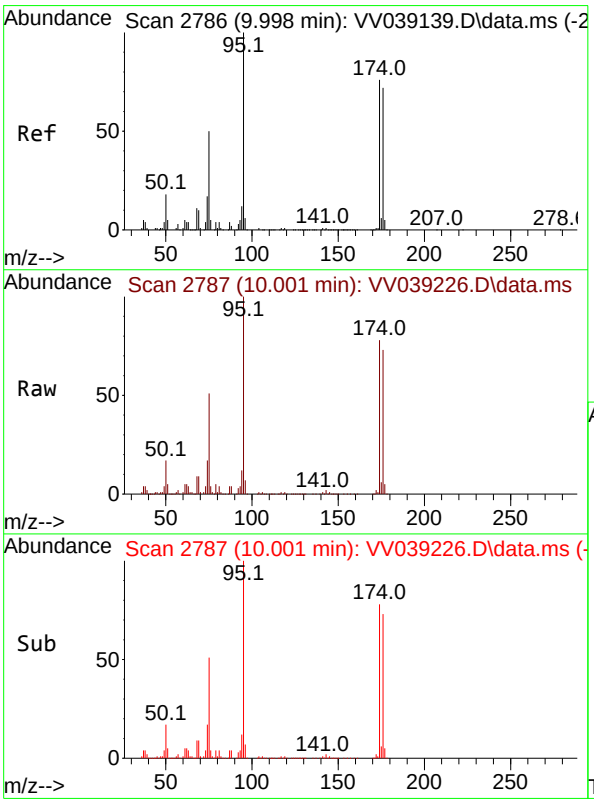

#50
Toluene-d8
Concen: 45.048 ug/l
RT: 7.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039226.D
Acq: 29 Sep 2025 13:08

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31S-091825DL

Tgt Ion: 98 Resp: 941881

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.3 | 52.2 | 78.2 |

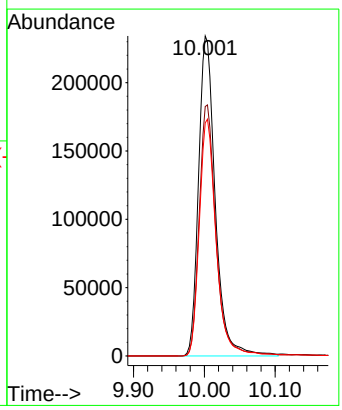


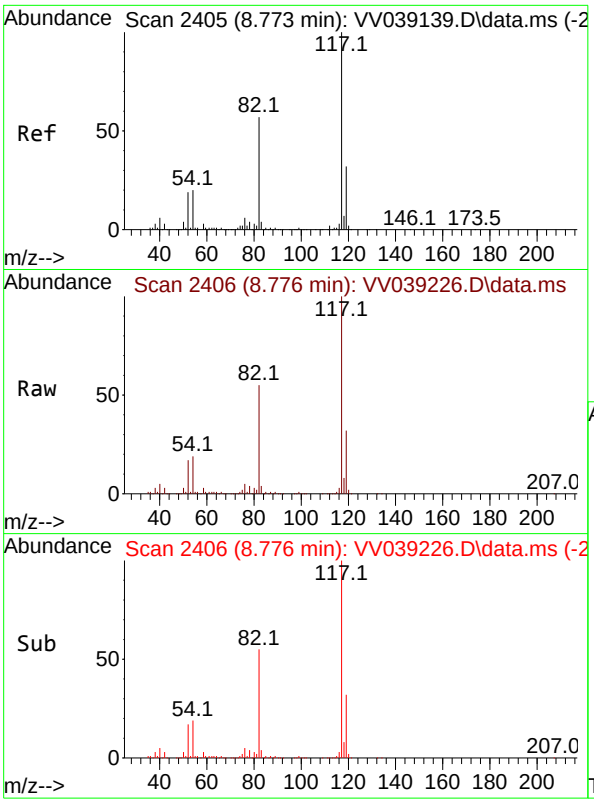




#62
4-Bromofluorobenzene
Concen: 44.651 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039226.D
Acq: 29 Sep 2025 13:08

Tgt Ion: 95 Resp: 384328

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 78.8 | 0.0 | 150.4 |
| 176 | 74.1 | 0.0 | 144.2 |



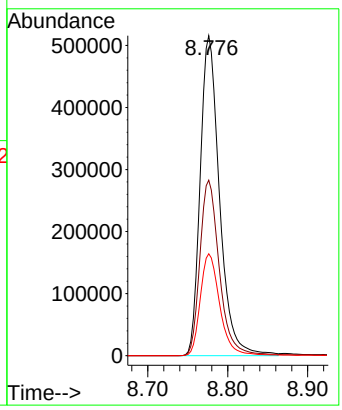


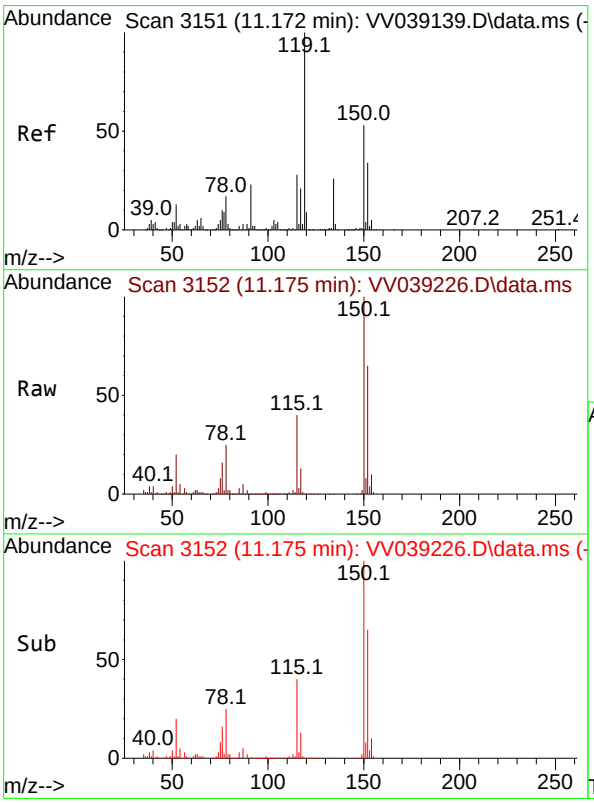

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039226.D
Acq: 29 Sep 2025 13:08

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31S-091825DL

Tgt Ion:117 Resp: 868036

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.9 | 45.4 | 68.2 |
| 119 | 31.9 | 25.6 | 38.4 |

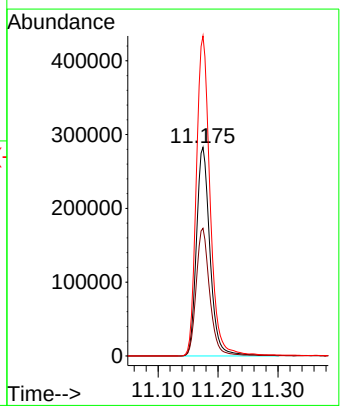



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039226.D
Acq: 29 Sep 2025 13:08

Tgt Ion:152 Resp: 445110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 61.1 | 44.8 | 134.4 |
| 150 | 154.6 | 0.0 | 353.8 |



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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/18/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-31D-091825 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-16 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039215.D | 1 | 09/26/25 16:05 | VV092625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 20.3 | | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.33 | U | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 2300 | E | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 17.2 | | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 1.50 | U | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 0.27 | U | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 8.90 | | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 1.50 | U | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.79 | J | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.25 | U | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 8.20 | | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.16 | U | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 270 | E | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | U | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.14 | U | 0.14 | 1.00 | ug/L |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/18/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-31D-091825 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-16 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039215.D | 1 | 09/26/25 16:05 | VV092625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.15 | U | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.25 | J | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | U | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | U | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.53 | U | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 59.0 | | 74 - 125 | 118% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 54.7 | | 75 - 124 | 109% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 48.2 | | 86 - 113 | 96% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 43.9 | | 77 - 121 | 88% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 523000 | 4.6 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 967000 | 5.535 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 981000 | 8.776 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 470000 | 11.175 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/18/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-31D-091825 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-16 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039215.D | 1 | 09/26/25 16:05 | VV092625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 000354-23-4 | Ethane, 1,2-dichloro-1,1,2-trifluo | 190 | J | | 1.92 | ug/L |

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

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

Quantitation Report (LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039215.D
Acq On : 26 Sep 2025 16:05
Operator : SY/MD
Sample : Q3195-16
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825

Quant Time: Sep 29 07:52:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

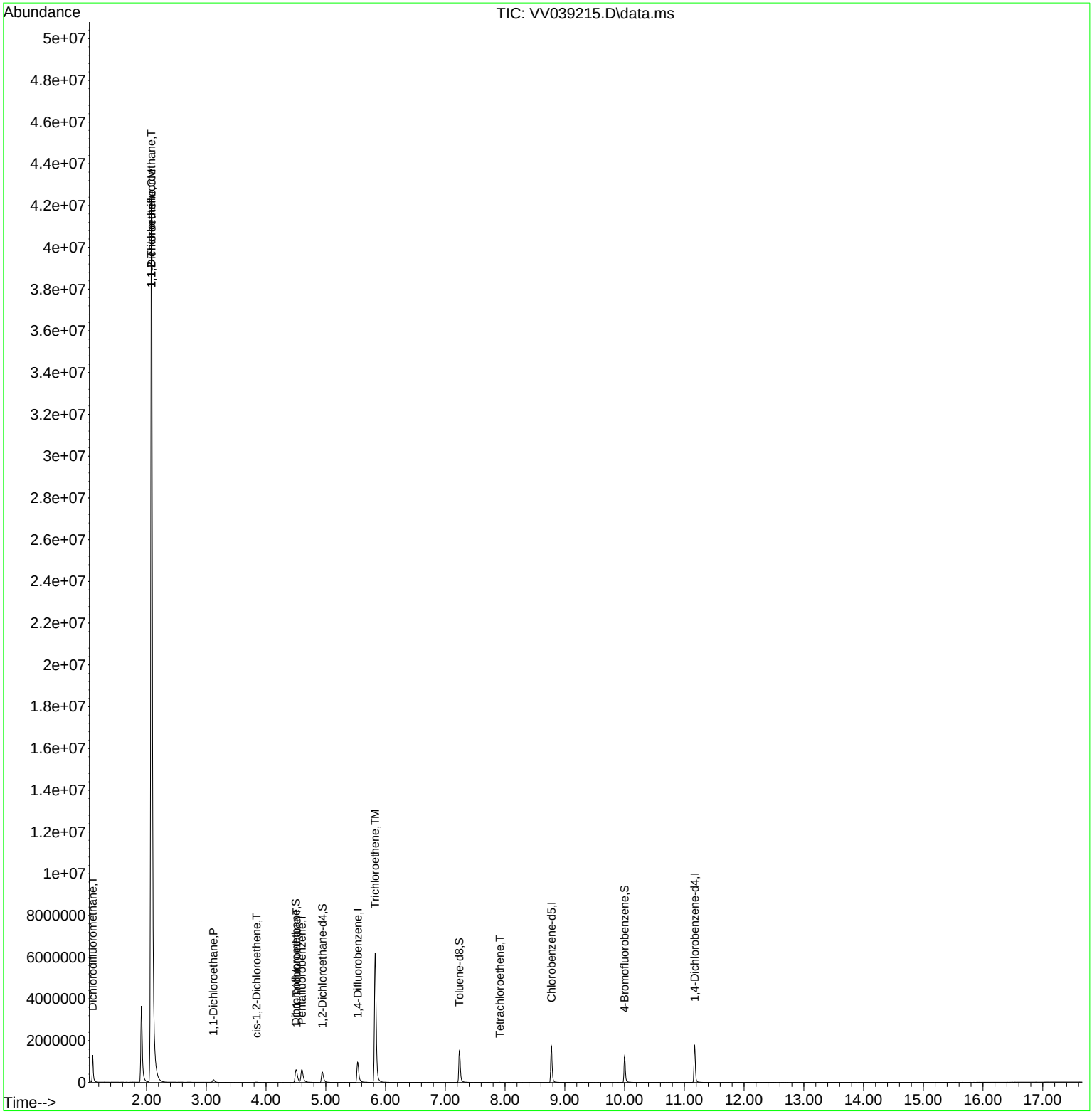
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.600 | 168 | 523421 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.535 | 114 | 967034 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.776 | 117 | 980974 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.175 | 152 | 469900 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.944 | 65 | 446631 | 58.958 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 117.920% | | | |
| 35) Dibromofluoromethane | 4.500 | 113 | 425088 | 54.680 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 109.360% | | | |
| 50) Toluene-d8 | 7.236 | 98 | 1101338 | 48.235 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 96.460% | | | |
| 62) 4-Bromofluorobenzene | 10.001 | 95 | 412962 | 43.934 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 87.860% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.098 | 85 | 167927 | 20.267 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 2.079 | 101 | 18545285 | 2260.702 | ug/l | 98 |
| 12) 1,1-Dichloroethene | 2.082 | 96 | 135533 | 17.174 | ug/l # | 74 |
| 24) 1,1-Dichloroethane | 3.121 | 63 | 146490 | 8.881 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 3.841 | 96 | 7318 | 0.790 | ug/l | 70 |
| 32) 1,1,1-Trichloroethane | 4.513 | 97 | 121865 | 8.173 | ug/l | 97 |
| 44) Trichloroethene | 5.828 | 130 | 2364403 | 267.708 | ug/l | 98 |
| 64) Tetrachloroethene | 7.911 | 164 | 2084 | 0.254 | ug/l | 89 |

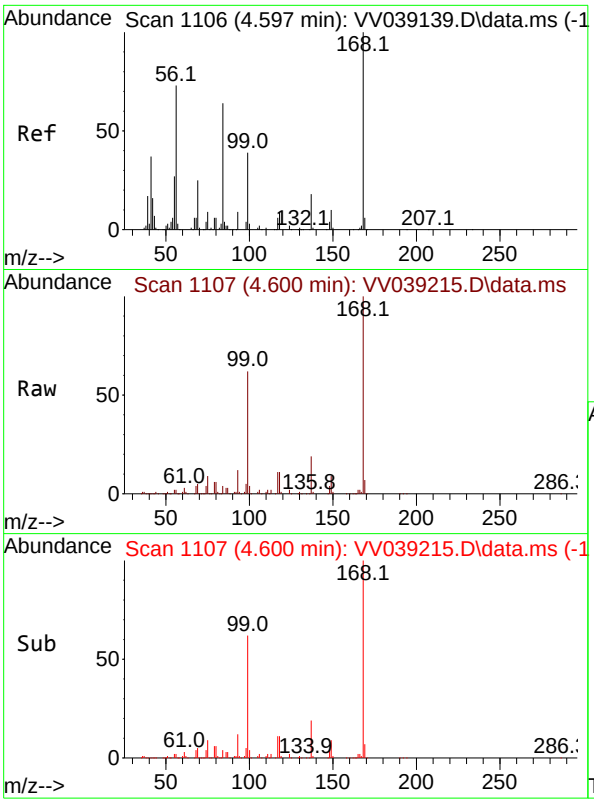
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039215.D
Acq On : 26 Sep 2025 16:05
Operator : SY/MD
Sample : Q3195-16
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825

Quant Time: Sep 29 07:52:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



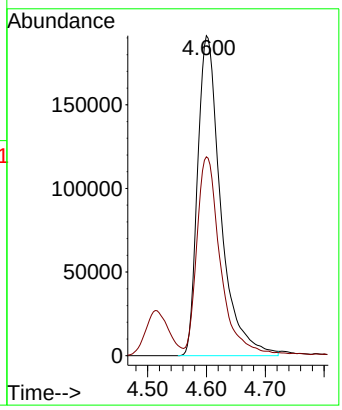


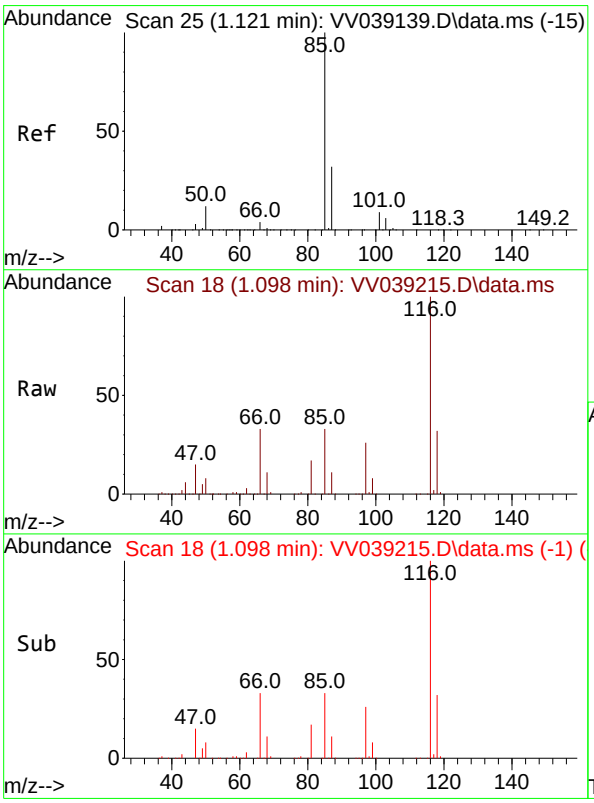

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039215.D
Acq: 26 Sep 2025 16:05

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825

Tgt Ion:168 Resp: 523421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 61.2 | 49.6 | 74.4 |

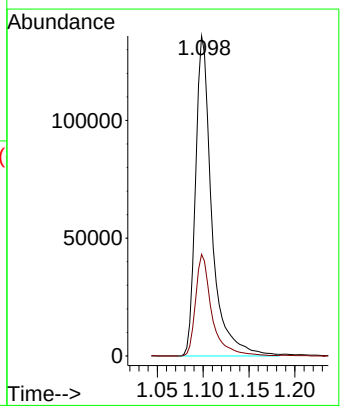


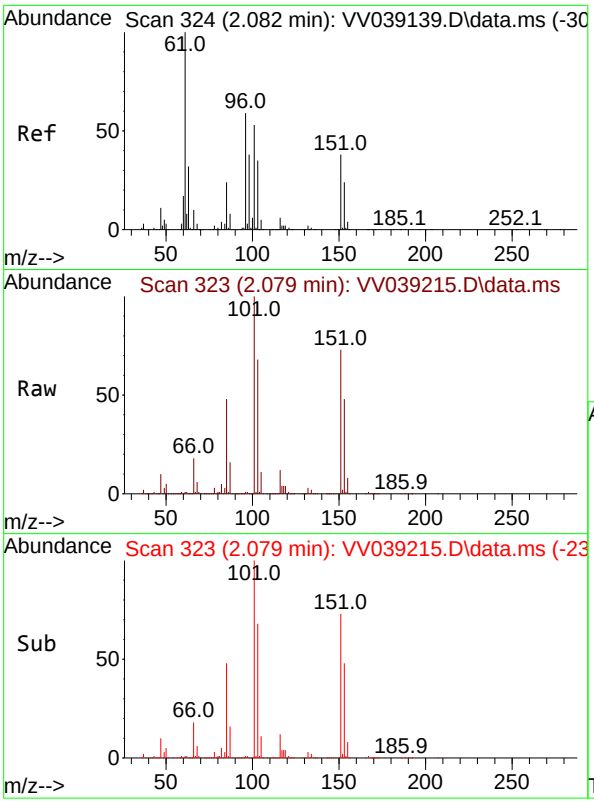




#2
Dichlorodifluoromethane
Concen: 20.267 ug/l
RT: 1.098 min Scan# 18
Delta R.T. -0.023 min
Lab File: VV039215.D
Acq: 26 Sep 2025 16:05

Tgt Ion: 85 Resp: 167927

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.7 | 16.0 | 47.9 |



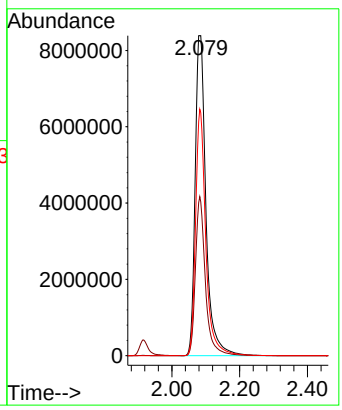


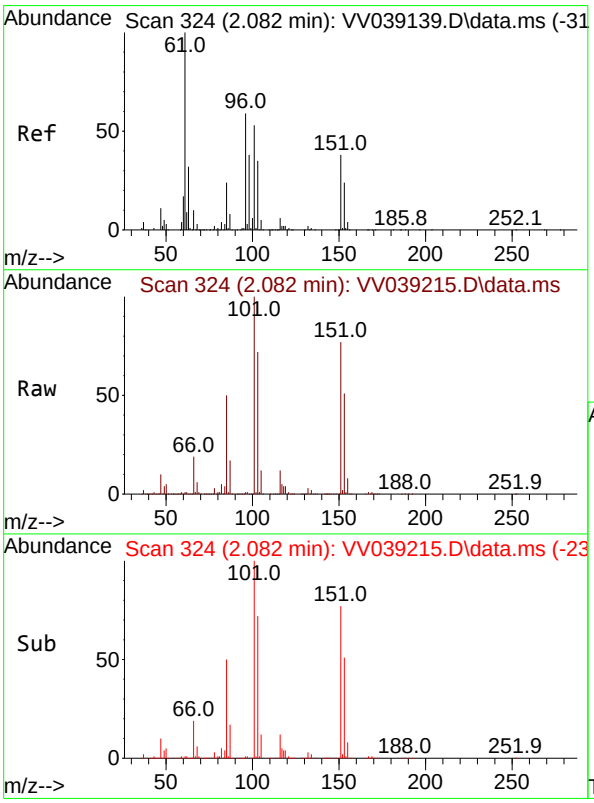

#9
1,1,2-Trichlorotrifluoroethane
Concen: 2260.702 ug/l
RT: 2.079 min Scan# 3
Delta R.T. -0.003 min
Lab File: VV039215.D
Acq: 26 Sep 2025 16:05

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825

Tgt Ion:101 Resp:18545285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 45.9 | 36.2 | 54.2 |
| 151 | 73.1 | 56.3 | 84.5 |

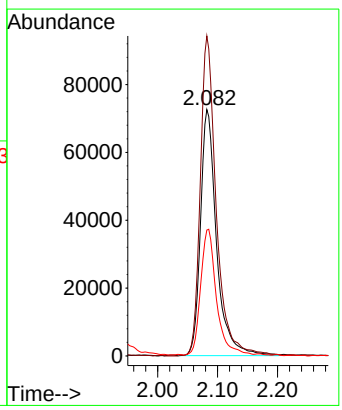


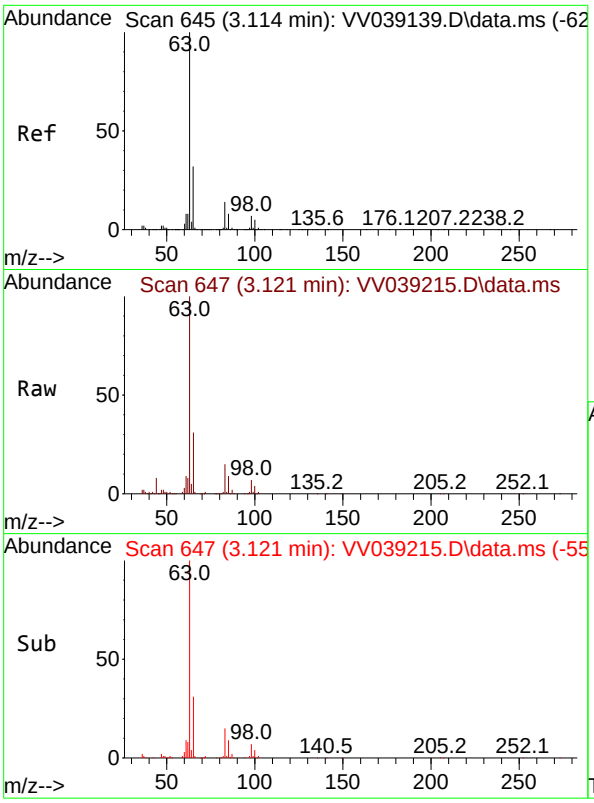




#12
1,1-Dichloroethene
Concen: 17.174 ug/l
RT: 2.082 min Scan# 324
Delta R.T. -0.000 min
Lab File: VV039215.D
Acq: 26 Sep 2025 16:05

Tgt Ion: 96 Resp: 135533

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 130.1 | 136.0 | 204.0# |
| 98 | 50.7 | 51.0 | 76.6# |



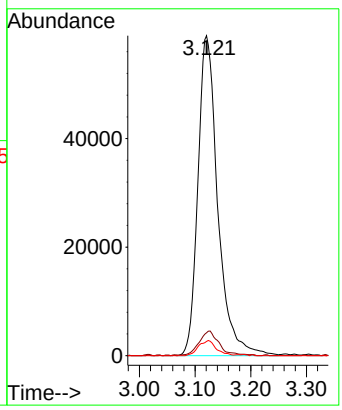


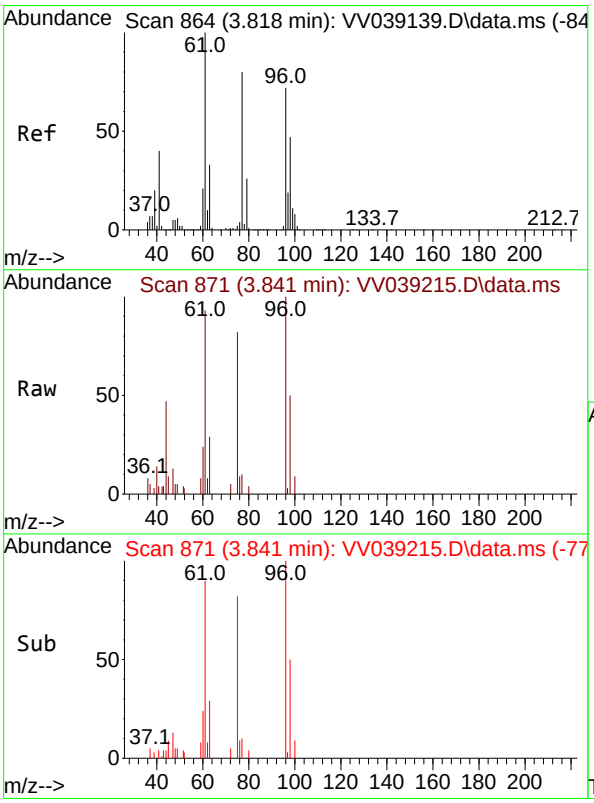

#24
1,1-Dichloroethane
Concen: 8.881 ug/l
RT: 3.121 min Scan# 64
Delta R.T. 0.006 min
Lab File: VV039215.D
Acq: 26 Sep 2025 16:05

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825

Tgt Ion: 63 Resp: 146490

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.2 | 3.4 | 10.2 |
| 100 | 4.5 | 2.2 | 6.6 |

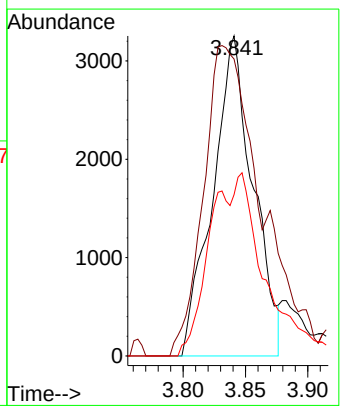


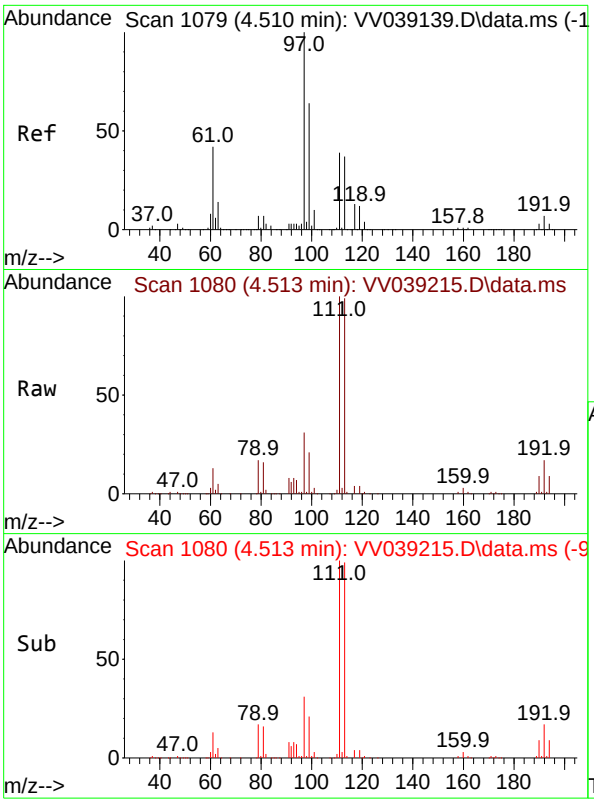




#27
cis-1,2-Dichloroethene
Concen: 0.790 ug/l
RT: 3.841 min Scan# 871
Delta R.T. 0.022 min
Lab File: VV039215.D
Acq: 26 Sep 2025 16:05

Tgt Ion: 96 Resp: 7318

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 112.0 | 0.0 | 286.4 |
| 98 | 32.4 | 0.0 | 126.6 |



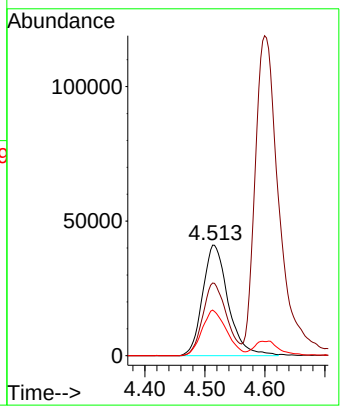


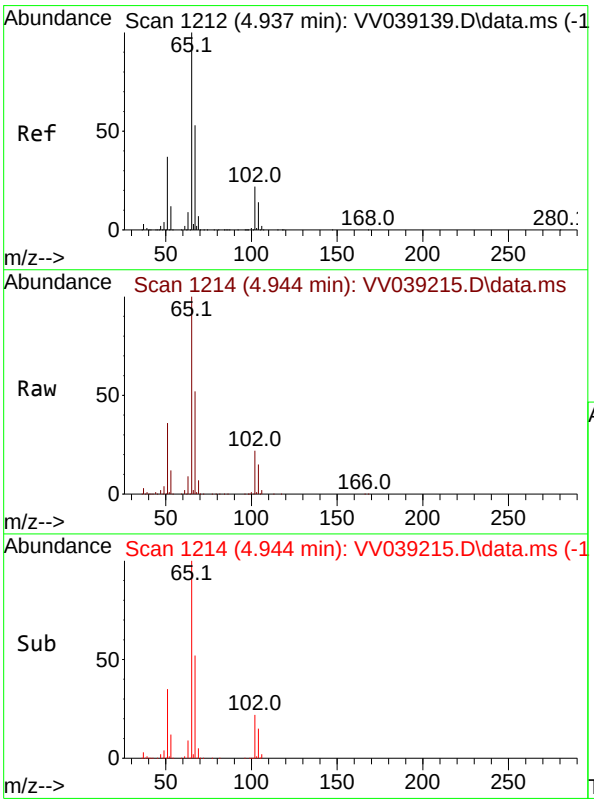

#32
1,1,1-Trichloroethane
Concen: 8.173 ug/l
RT: 4.513 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039215.D
Acq: 26 Sep 2025 16:05

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825

Tgt Ion: 97 Resp: 121865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 61.4 | 49.6 | 74.4 |
| 61 | 39.8 | 34.5 | 51.7 |

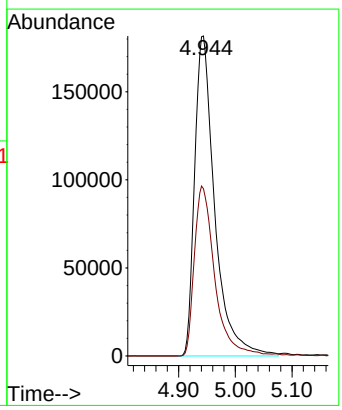


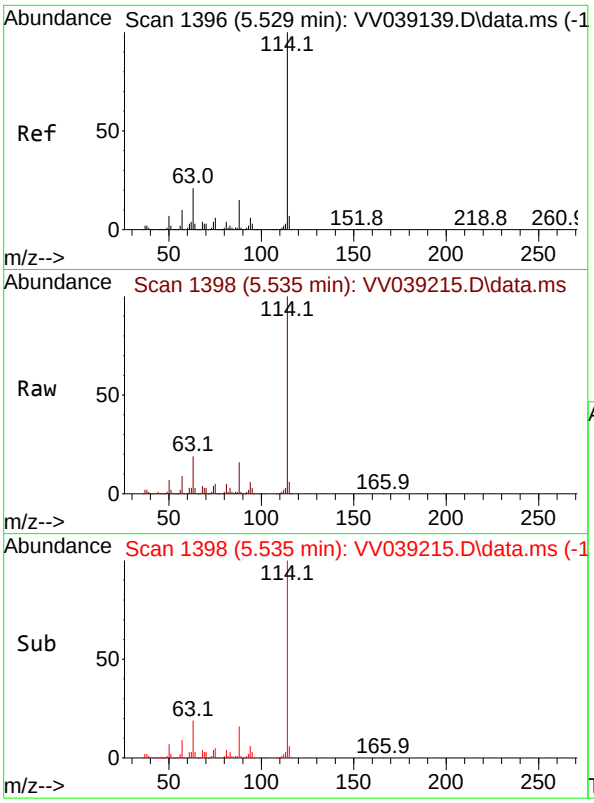




#33
1,2-Dichloroethane-d4
Concen: 58.958 ug/l
RT: 4.944 min Scan# 1214
Delta R.T. 0.006 min
Lab File: VV039215.D
Acq: 26 Sep 2025 16:05

Tgt Ion: 65 Resp: 446631

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 54.0 | 0.0 | 107.0 |



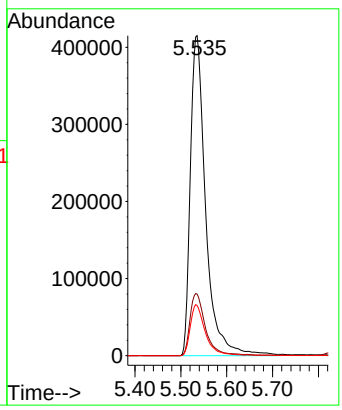


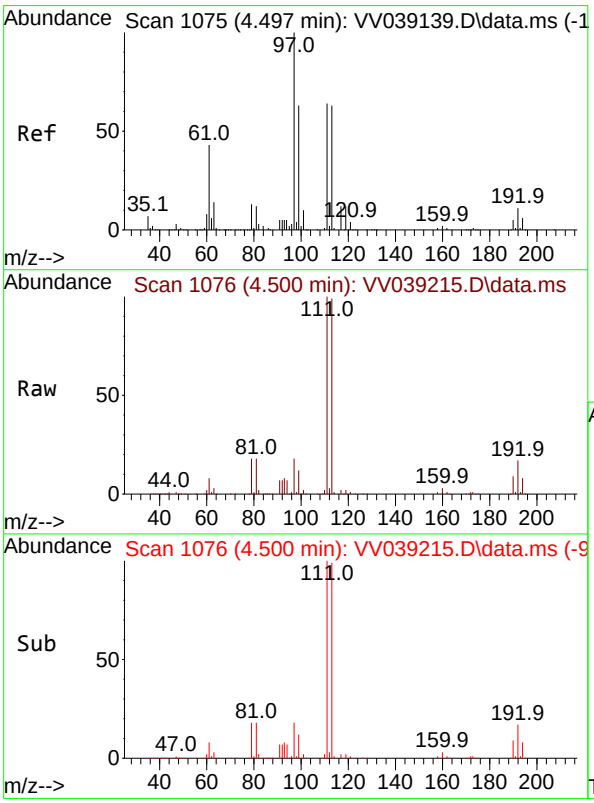

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039215.D
Acq: 26 Sep 2025 16:05

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825

Tgt Ion:114 Resp: 967034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.2 | 0.0 | 42.6 |
| 88 | 15.7 | 0.0 | 30.8 |

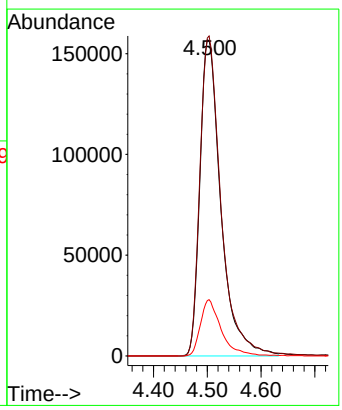


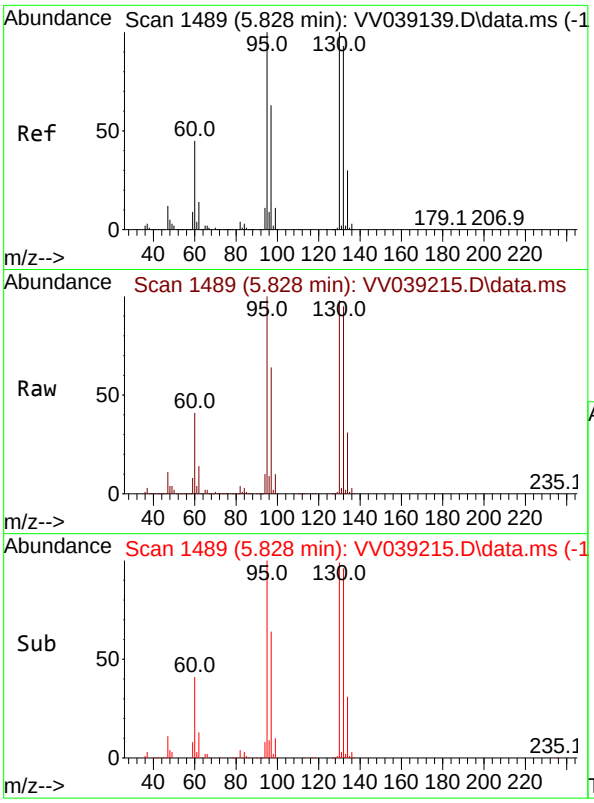




#35
Dibromofluoromethane
Concen: 54.680 ug/l
RT: 4.500 min Scan# 1076
Delta R.T. 0.003 min
Lab File: VV039215.D
Acq: 26 Sep 2025 16:05

Tgt Ion:113 Resp: 425088

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.1 | 82.4 | 123.6 |
| 192 | 17.5 | 13.8 | 20.8 |



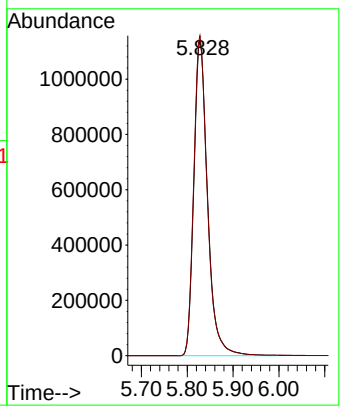


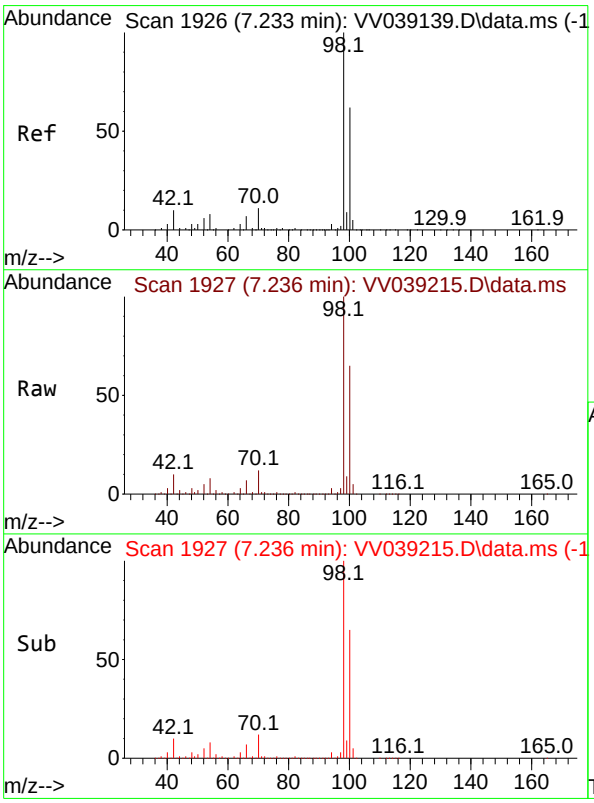

#44
Trichloroethene
Concen: 267.708 ug/l
RT: 5.828 min Scan# 14
Delta R.T. -0.000 min
Lab File: VV039215.D
Acq: 26 Sep 2025 16:05

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825

Tgt Ion:130 Resp: 2364403

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 101.6 | 0.0 | 199.2 |

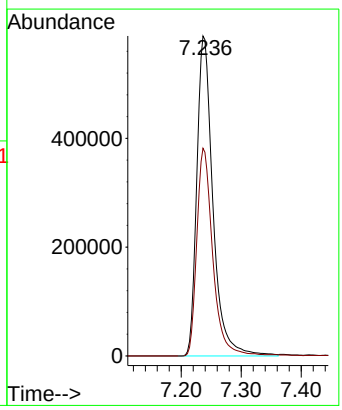


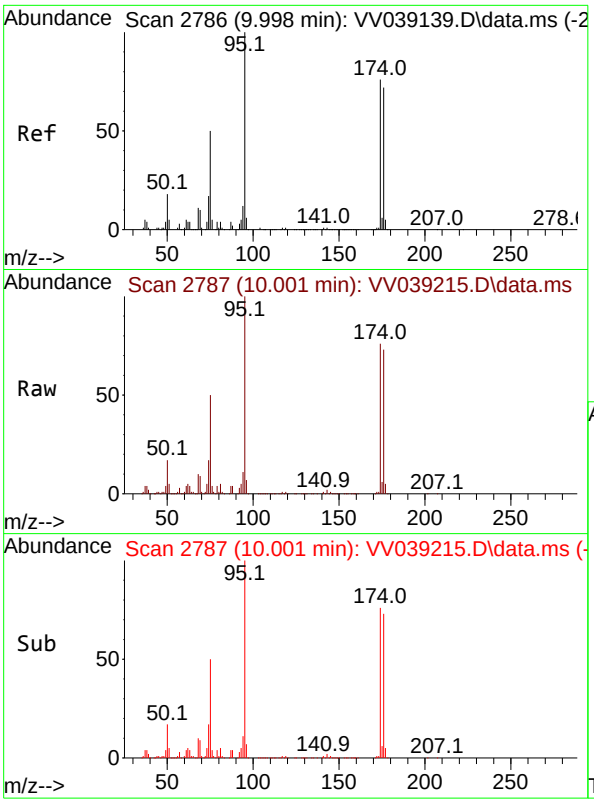




#50
Toluene-d8
Concen: 48.235 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.003 min
Lab File: VV039215.D
Acq: 26 Sep 2025 16:05

Tgt Ion: 98 Resp: 1101338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.2 | 52.2 | 78.2 |



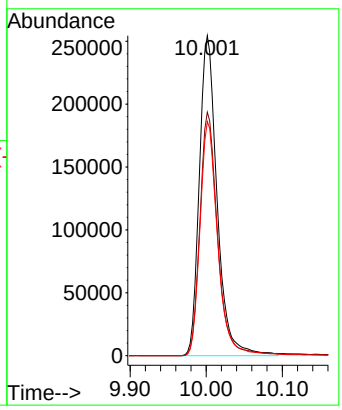


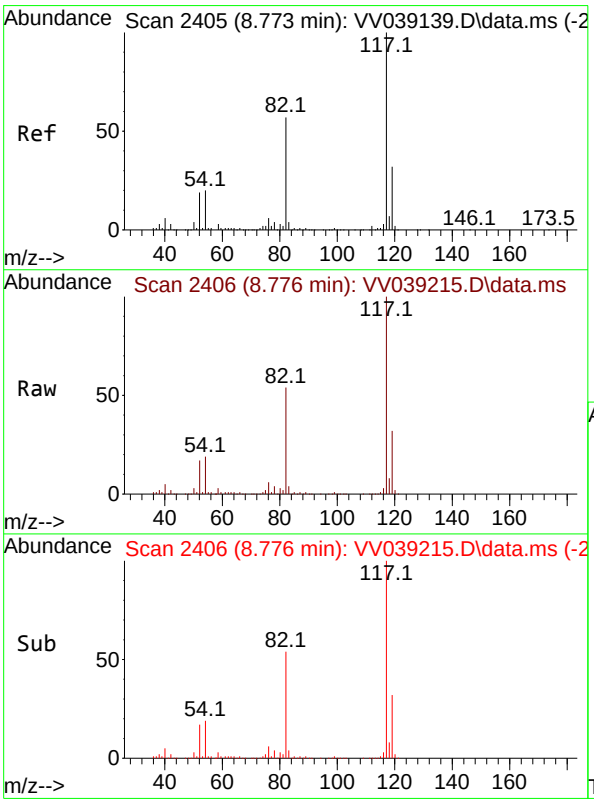

#62
4-Bromofluorobenzene
Concen: 43.934 ug/l
RT: 10.001 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039215.D
Acq: 26 Sep 2025 16:05

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825

Tgt Ion: 95 Resp: 412962

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 75.6 | 0.0 | 150.4 |
| 176 | 72.9 | 0.0 | 144.2 |

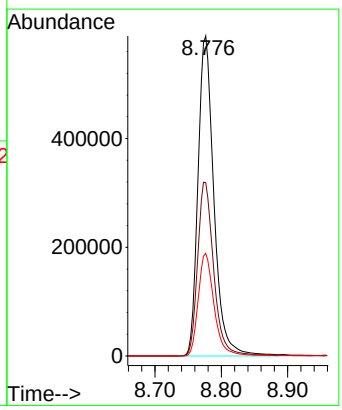


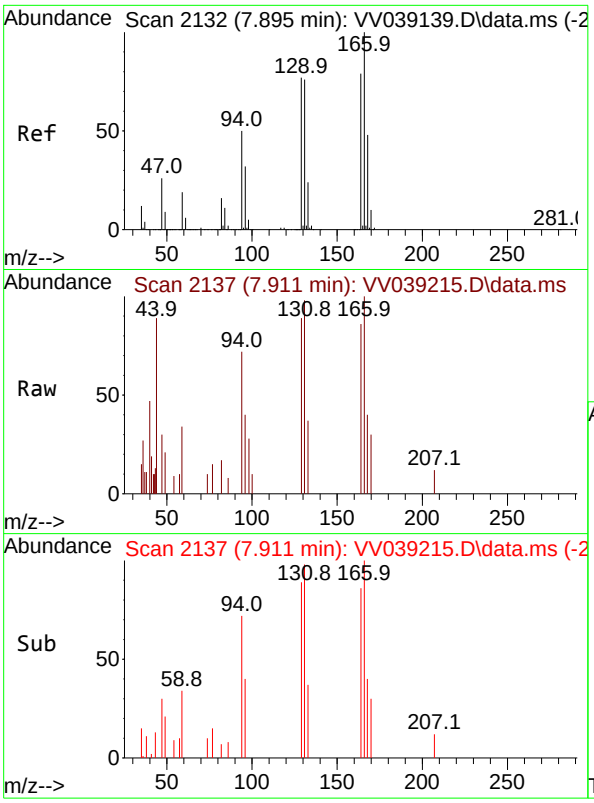




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039215.D
Acq: 26 Sep 2025 16:05

Tgt Ion:117 Resp: 980974

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.2 | 45.4 | 68.2 |
| 119 | 32.0 | 25.6 | 38.4 |



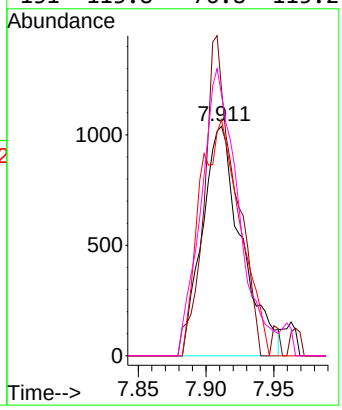


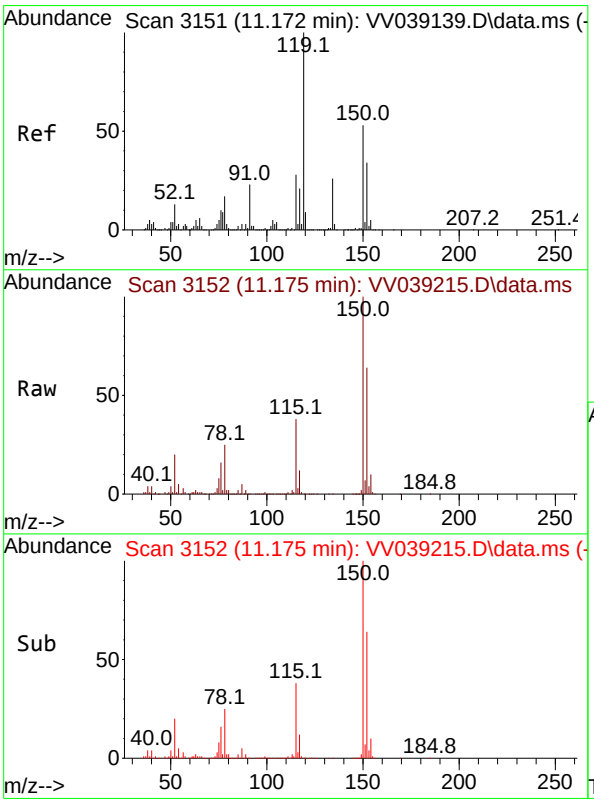

#64
Tetrachloroethene
Concen: 0.254 ug/l
RT: 7.911 min Scan# 21
Delta R.T. 0.016 min
Lab File: VV039215.D
Acq: 26 Sep 2025 16:05

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825

Tgt Ion:164 Resp: 2084

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 115.9 | 101.6 | 152.4 |
| 129 | 102.9 | 78.5 | 117.7 |
| 131 | 113.8 | 76.8 | 115.2 |

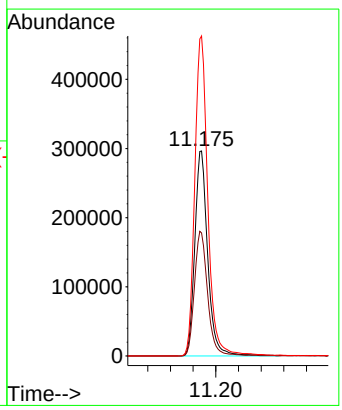



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039215.D
Acq: 26 Sep 2025 16:05

Tgt Ion:152 Resp: 469900

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 62.1 | 44.8 | 134.4 |
| 150 | 157.2 | 0.0 | 353.8 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039215.D
Acq On : 26 Sep 2025 16:05
Operator : SY/MD
Sample : Q3195-16
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039215.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.098 | 11 | 18 | 50 | rVB | 1298569 | 1636743 | 1.87% | 1.293% |
| 2 | 1.915 | 260 | 272 | 308 | rBV | 3654142 | 6739454 | 7.69% | 5.324% |
| 3 | 2.082 | 309 | 324 | 407 | rVB | 42307391 | 87687529 | 100.00% | 69.270% |
| 4 | 4.503 | 1061 | 1077 | 1096 | rBV2 | 609842 | 1693006 | 1.93% | 1.337% |
| 5 | 4.600 | 1096 | 1107 | 1151 | rVB2 | 617534 | 1730984 | 1.97% | 1.367% |
| 6 | 4.940 | 1201 | 1213 | 1247 | rBV | 503565 | 1240011 | 1.41% | 0.980% |
| 7 | 5.532 | 1386 | 1397 | 1431 | rBV | 970902 | 2259066 | 2.58% | 1.785% |
| 8 | 5.828 | 1474 | 1489 | 1537 | rBV | 6205626 | 12900952 | 14.71% | 10.191% |
| 9 | 7.236 | 1915 | 1927 | 1961 | rBV | 1517385 | 2881925 | 3.29% | 2.277% |
| 10 | 8.776 | 2393 | 2406 | 2443 | rBV | 1722550 | 2935541 | 3.35% | 2.319% |
| 11 | 10.001 | 2775 | 2787 | 2819 | rBV | 1222700 | 2028245 | 2.31% | 1.602% |
| 12 | 11.172 | 3140 | 3151 | 3188 | rBV | 1768953 | 2854118 | 3.25% | 2.255% |

Sum of corrected areas: 126587574

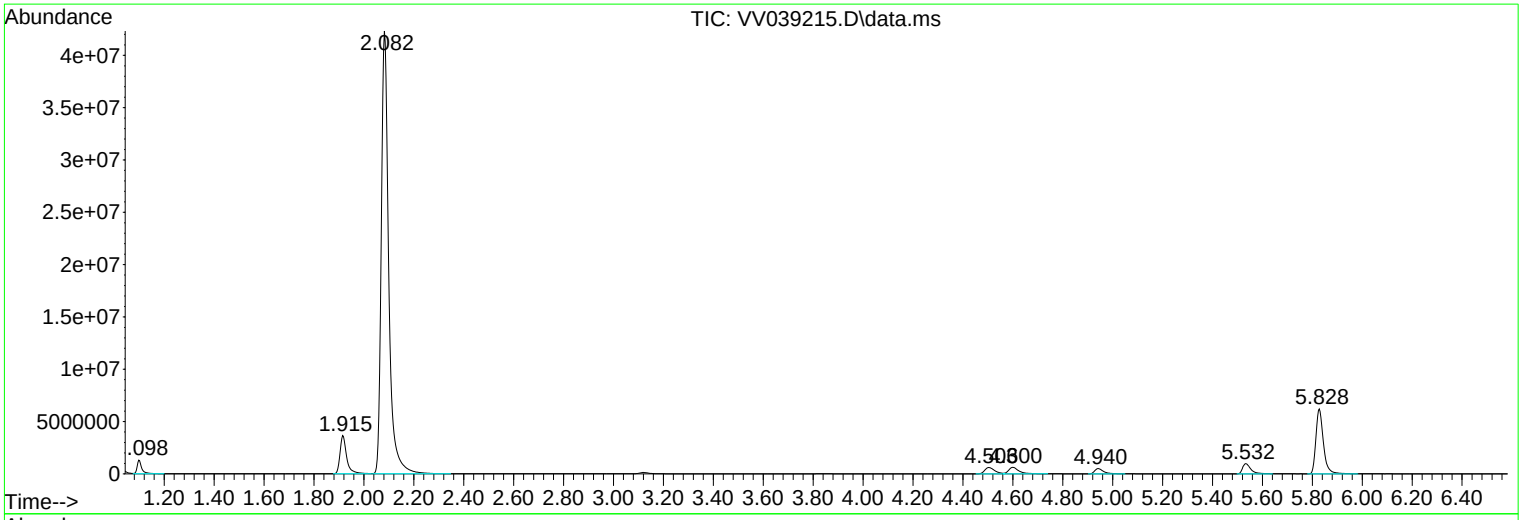
Sample Results: **VV039215.D**

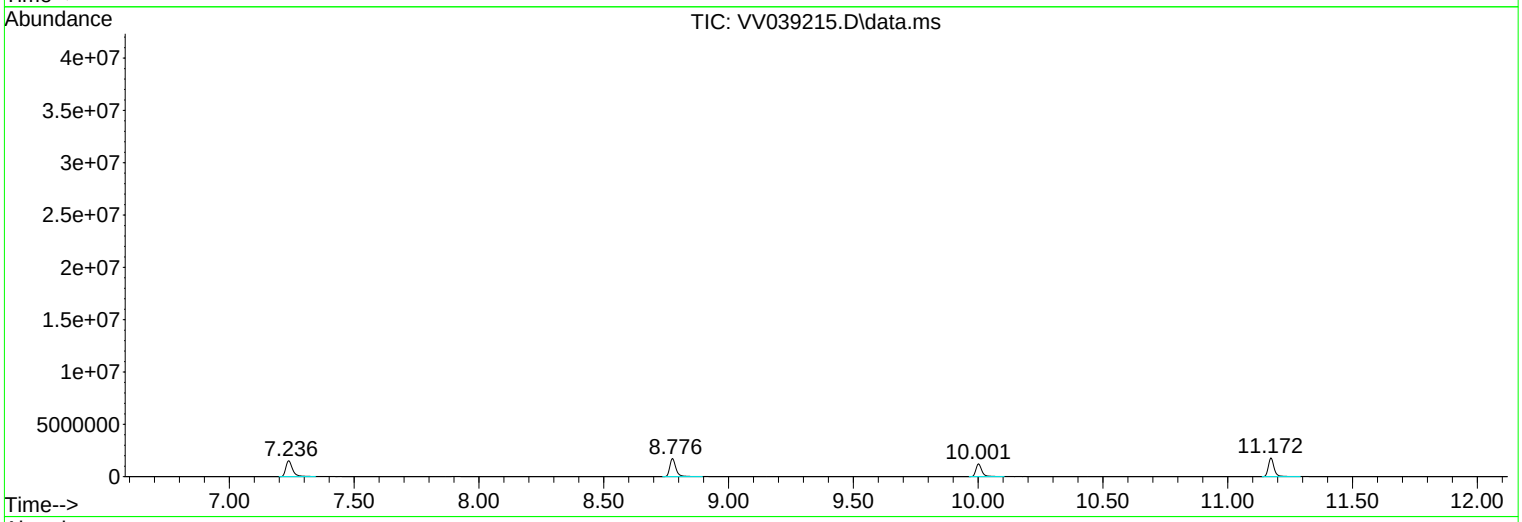
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039215.D
Acq On : 26 Sep 2025 16:05
Operator : SY/MD
Sample : Q3195-16
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 19 Sample Multiplier: 1

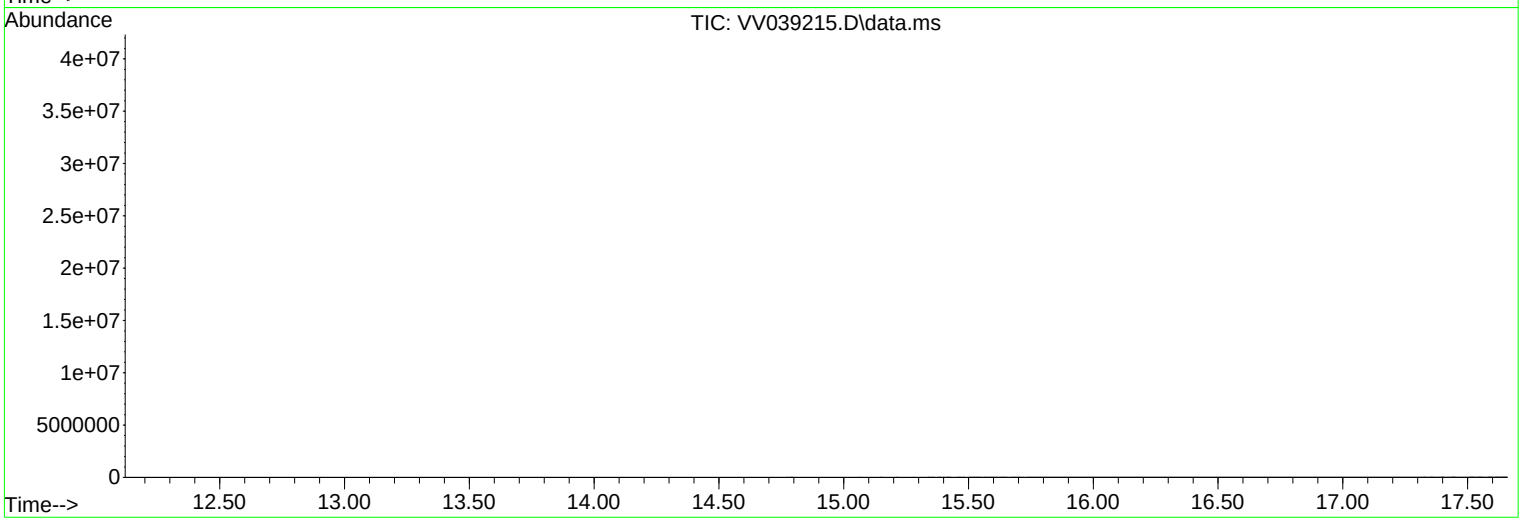
**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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



```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039215.D
Acq On    : 26 Sep 2025  16:05
Operator  : SY/MD
Sample    : Q3195-16
Misc      : 5.0mL/MSVOA_V/WATER
ALS Vial  : 19   Sample Multiplier: 1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title  : SW846 8260

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

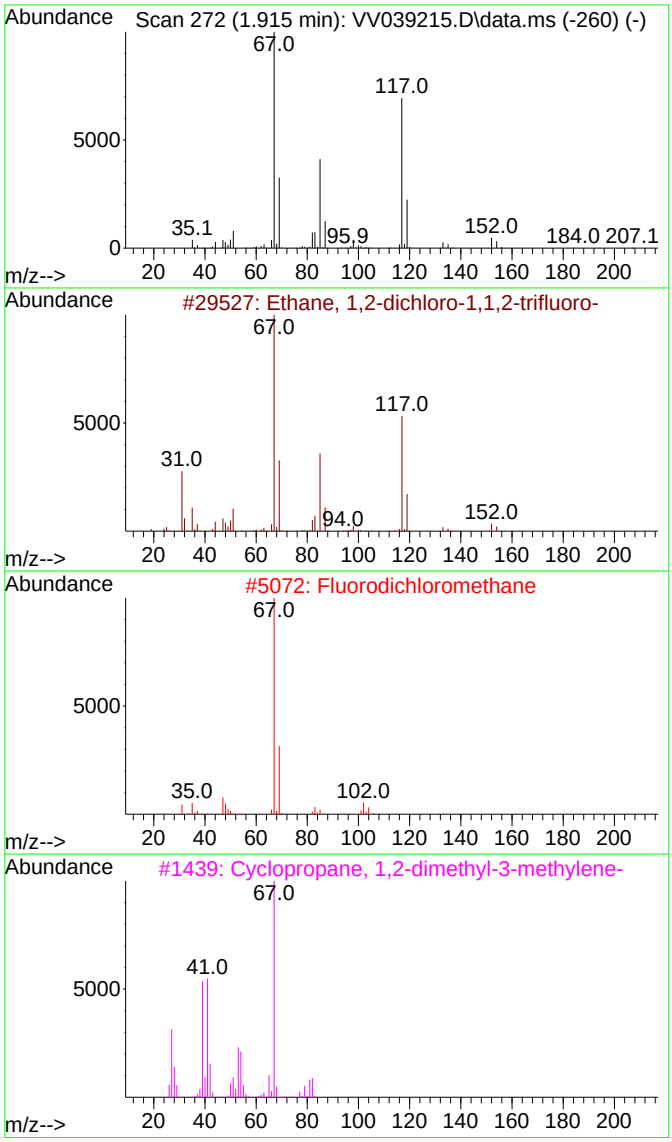
**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825

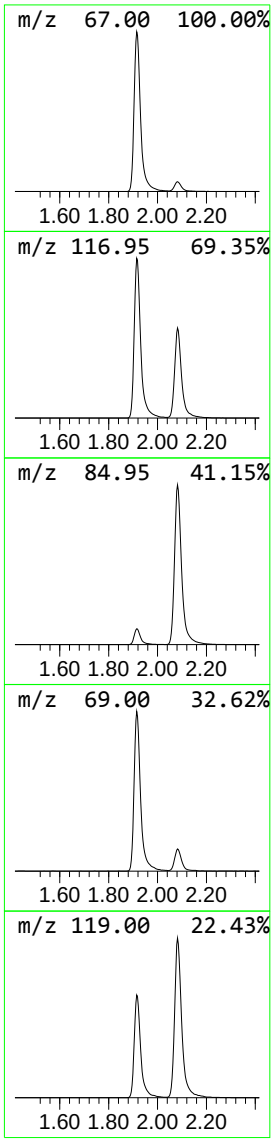
**********

Peak Number 1 Ethane, 1,2-dichloro-1,1,2-... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.915 | 194.67 ug/l | 6739450 | Pentafluorobenzene | 4.600 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Ethane, 1,2-dichloro-1,1,2-trifl... | 152 | C2HCl2F3 | 000354-23-4 | 94 |
| 2 | Fluorodichloromethane | 102 | CHCl2F | 000075-43-4 | 16 |
| 3 | Cyclopropane, 1,2-dimethyl-3-met... | 82 | C6H10 | 062338-02-7 | 9 |
| 4 | 1,4-Pentadiene, 3-methyl- | 82 | C6H10 | 001115-08-8 | 9 |
| 5 | Methyl 2-butynoate | 98 | C5H6O2 | 023326-27-4 | 9 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039215.D
Acq On : 26 Sep 2025 16:05
Operator : SY/MD
Sample : Q3195-16
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Ethane, 1,2-dic... | 1.915 | 194.7 | ug/l | 6739450 | 1 | 4.600 | 1730980 | 50.0 |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/18/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-31D-091825DL | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-16DL | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039230.D | 40 | 09/29/25 14:38 | VV092925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 19.9 | JD | 8.80 | 40.0 | ug/L |
| 74-87-3 | Chloromethane | 12.8 | UD | 12.8 | 40.0 | ug/L |
| 75-01-4 | Vinyl Chloride | 10.4 | UD | 10.4 | 40.0 | ug/L |
| 74-83-9 | Bromomethane | 57.6 | UD | 57.6 | 200 | ug/L |
| 75-00-3 | Chloroethane | 18.8 | UD | 18.8 | 40.0 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 13.2 | UD | 13.2 | 40.0 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 2400 | D | 10.0 | 40.0 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 20.7 | JD | 9.20 | 40.0 | ug/L |
| 67-64-1 | Acetone | 60.4 | UD | 60.4 | 200 | ug/L |
| 75-15-0 | Carbon Disulfide | 8.40 | UD | 8.40 | 40.0 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 6.40 | UD | 6.40 | 40.0 | ug/L |
| 79-20-9 | Methyl Acetate | 10.8 | UD | 10.8 | 40.0 | ug/L |
| 75-09-2 | Methylene Chloride | 11.2 | UD | 11.2 | 40.0 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 9.20 | UD | 9.20 | 40.0 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 9.80 | JD | 9.20 | 40.0 | ug/L |
| 110-82-7 | Cyclohexane | 58.0 | UD | 58.0 | 200 | ug/L |
| 78-93-3 | 2-Butanone | 39.2 | UD | 39.2 | 200 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 10.0 | UD | 10.0 | 40.0 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 7.60 | UD | 7.60 | 40.0 | ug/L |
| 74-97-5 | Bromochloromethane | 8.80 | UD | 8.80 | 40.0 | ug/L |
| 67-66-3 | Chloroform | 10.0 | UD | 10.0 | 40.0 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 8.00 | UD | 8.00 | 40.0 | ug/L |
| 108-87-2 | Methylcyclohexane | 6.40 | UD | 6.40 | 40.0 | ug/L |
| 71-43-2 | Benzene | 6.00 | UD | 6.00 | 40.0 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 8.80 | UD | 8.80 | 40.0 | ug/L |
| 79-01-6 | Trichloroethene | 250 | D | 3.70 | 40.0 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 8.00 | UD | 8.00 | 40.0 | ug/L |
| 75-27-4 | Bromodichloromethane | 8.80 | UD | 8.80 | 40.0 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 27.2 | UDQ | 27.2 | 200 | ug/L |
| 108-88-3 | Toluene | 5.60 | UDQ | 5.60 | 40.0 | ug/L |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/18/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-31D-091825DL | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-16DL | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039230.D | 40 | 09/29/25 14:38 | VV092925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 6.80 | UD | 6.80 | 40.0 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 6.40 | UD | 6.40 | 40.0 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 8.40 | UD | 8.40 | 40.0 | ug/L |
| 591-78-6 | 2-Hexanone | 35.6 | UD | 35.6 | 200 | ug/L |
| 124-48-1 | Dibromochloromethane | 7.20 | UD | 7.20 | 40.0 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 6.00 | UDQ | 6.00 | 40.0 | ug/L |
| 127-18-4 | Tetrachloroethene | 9.20 | UD | 9.20 | 40.0 | ug/L |
| 108-90-7 | Chlorobenzene | 4.80 | UD | 4.80 | 40.0 | ug/L |
| 100-41-4 | Ethyl Benzene | 5.20 | UD | 5.20 | 40.0 | ug/L |
| 179601-23-1 | m/p-Xylenes | 9.60 | UDQ | 9.60 | 80.0 | ug/L |
| 95-47-6 | o-Xylene | 4.80 | UD | 4.80 | 40.0 | ug/L |
| 100-42-5 | Styrene | 6.00 | UD | 6.00 | 40.0 | ug/L |
| 75-25-2 | Bromoform | 7.60 | UDQ | 7.60 | 40.0 | ug/L |
| 98-82-8 | Isopropylbenzene | 4.80 | UD | 4.80 | 40.0 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10.4 | UD | 10.4 | 40.0 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 6.40 | UD | 6.40 | 40.0 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 7.60 | UD | 7.60 | 40.0 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 6.40 | UD | 6.40 | 40.0 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 21.2 | UD | 21.2 | 40.0 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 8.00 | UD | 8.00 | 40.0 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 8.00 | UD | 8.00 | 40.0 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 56.9 | | 74 - 125 | 114% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 55.8 | | 75 - 124 | 112% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 45.2 | | 86 - 113 | 90% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 44.8 | | 77 - 121 | 90% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 458000 | 4.6 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 805000 | 5.535 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 812000 | 8.776 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 405000 | 11.172 | | | |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/18/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-31D-091825DL | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-16DL | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039230.D | 40 | 09/29/25 14:38 | VV092925 |

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039230.D
Acq On : 29 Sep 2025 14:38
Operator : SY/MD
Sample : Q3195-16DL 40X
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825DL

Quant Time: Sep 30 01:26:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

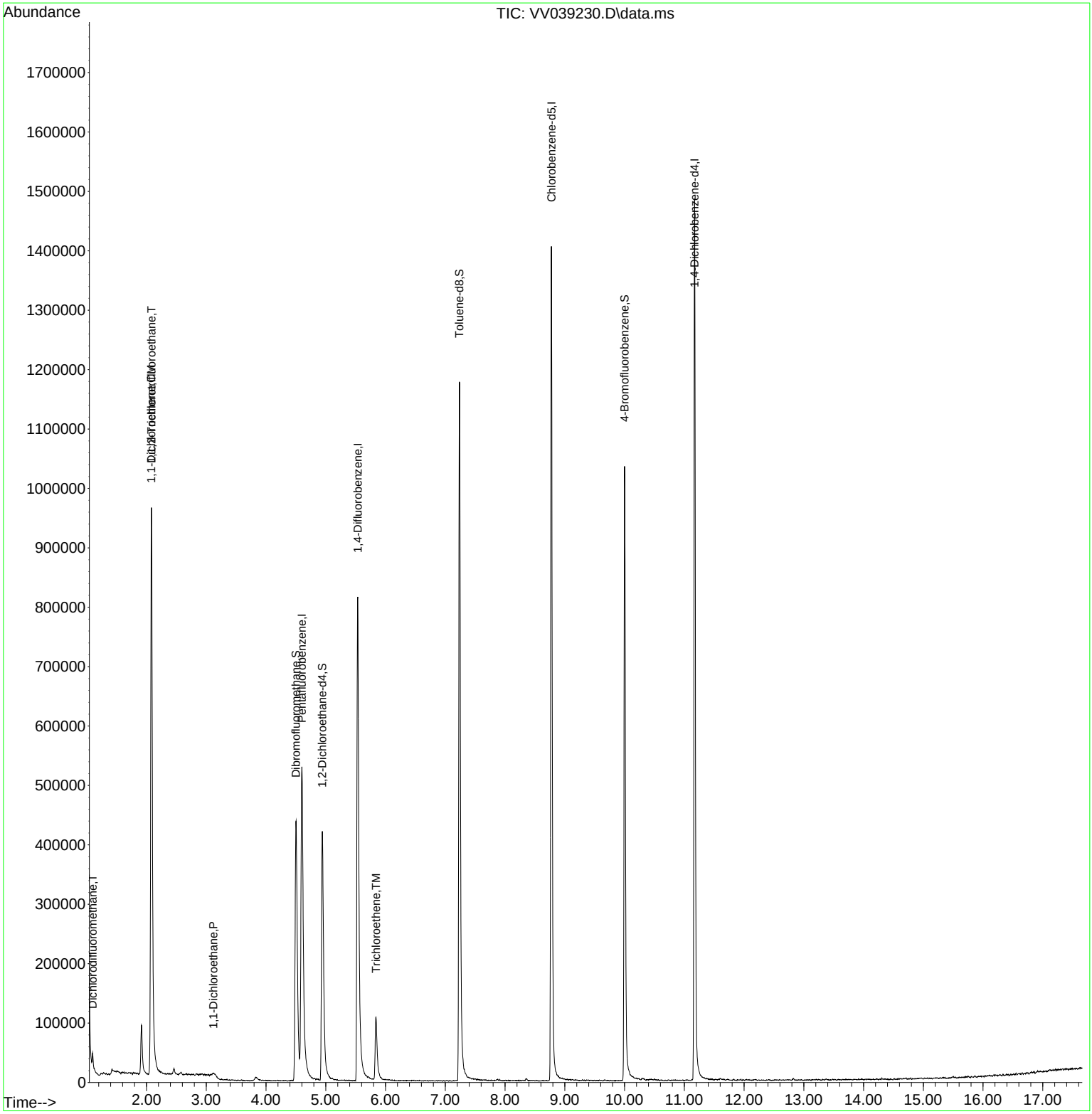
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.600 | 168 | 458405 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.535 | 114 | 805402 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.776 | 117 | 812071 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.172 | 152 | 405371 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.941 | 65 | 377389 | 56.883 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 113.760% | | | |
| 35) Dibromofluoromethane | 4.500 | 113 | 361022 | 55.758 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 111.520% | | | |
| 50) Toluene-d8 | 7.236 | 98 | 858799 | 45.161 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 90.320% | | | |
| 62) 4-Bromofluorobenzene | 10.001 | 95 | 350525 | 44.775 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 89.560% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.098 | 85 | 3606 | 0.497 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 2.082 | 101 | 429996 | 59.852 | ug/l | 97 |
| 12) 1,1-Dichloroethene | 2.079 | 96 | 3581 | 0.518 | ug/l # | 61 |
| 24) 1,1-Dichloroethane | 3.121 | 63 | 3525 | 0.244 | ug/l # | 83 |
| 44) Trichloroethene | 5.841 | 130 | 45433 | 6.176 | ug/l | 96 |

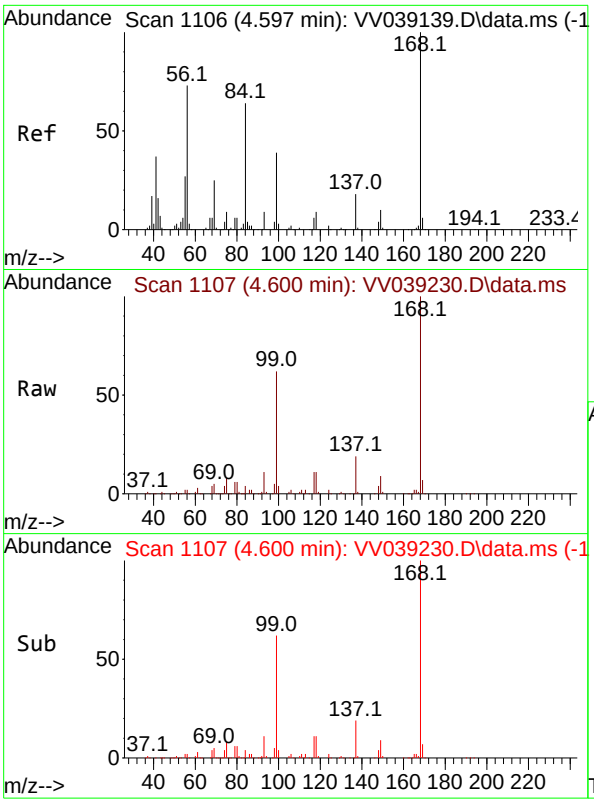
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039230.D
Acq On : 29 Sep 2025 14:38
Operator : SY/MD
Sample : Q3195-16DL 40X
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825DL

Quant Time: Sep 30 01:26:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



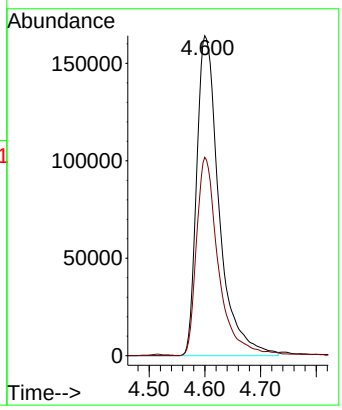


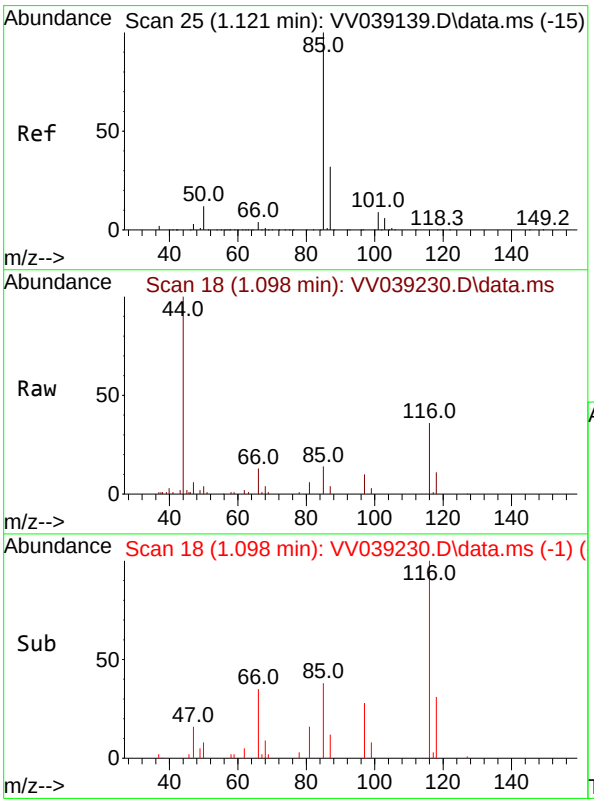

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039230.D
Acq: 29 Sep 2025 14:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825DL

Tgt Ion:168 Resp: 458405

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 61.9 | 49.6 | 74.4 |

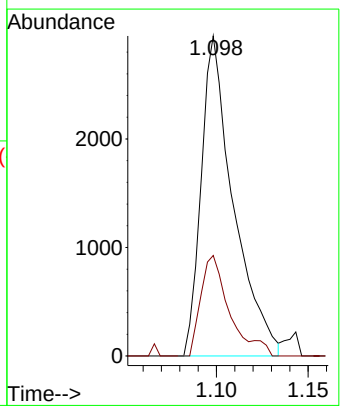


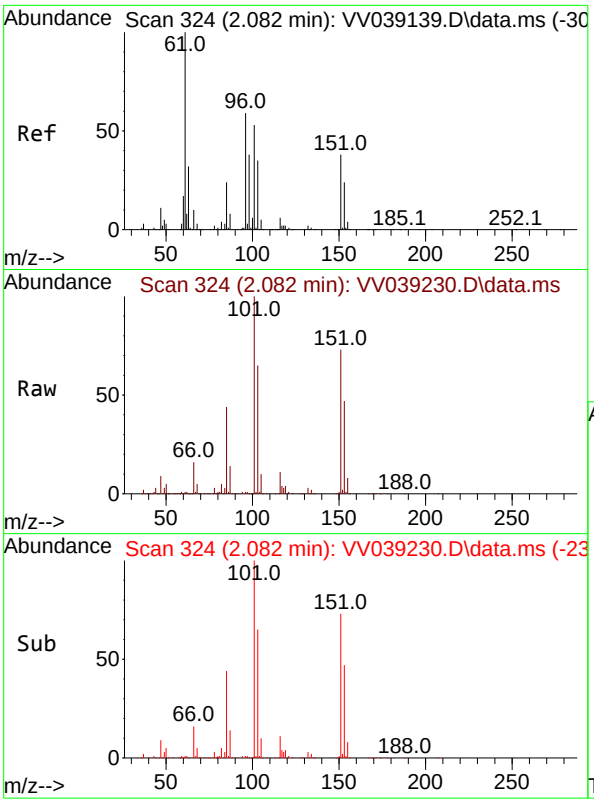




#2
Dichlorodifluoromethane
Concen: 0.497 ug/l
RT: 1.098 min Scan# 18
Delta R.T. -0.022 min
Lab File: VV039230.D
Acq: 29 Sep 2025 14:38

Tgt Ion: 85 Resp: 3606

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.4 | 16.0 | 47.9 |



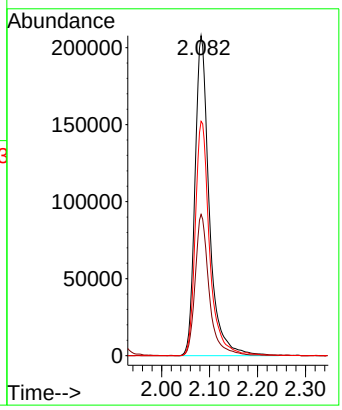


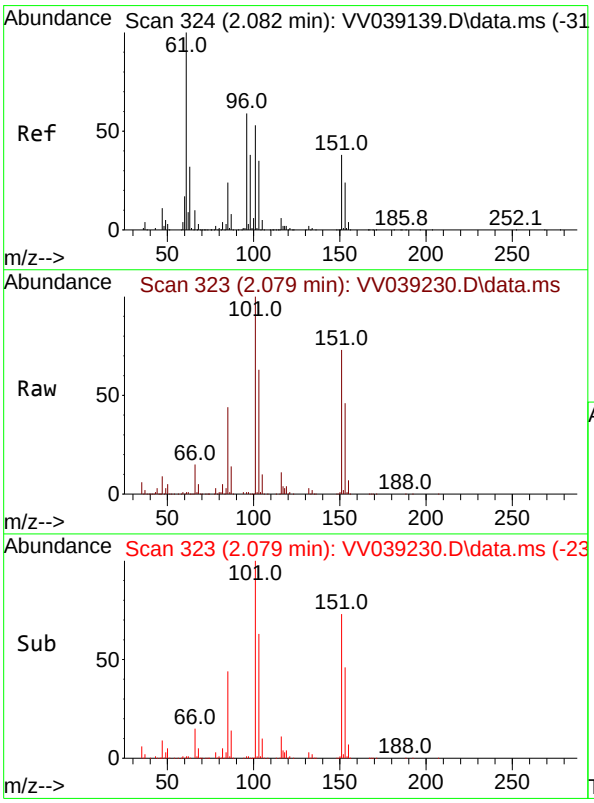

#9
1,1,2-Trichlorotrifluoroethane
Concen: 59.852 ug/l
RT: 2.082 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039230.D
Acq: 29 Sep 2025 14:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825DL

Tgt Ion:101 Resp: 429996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 43.2 | 36.2 | 54.2 |
| 151 | 73.0 | 56.3 | 84.5 |

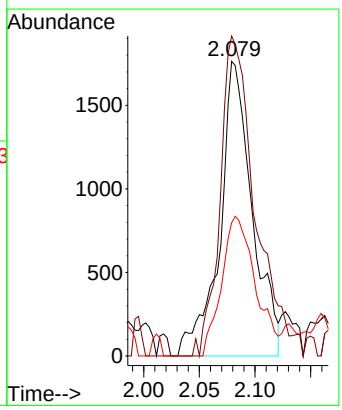


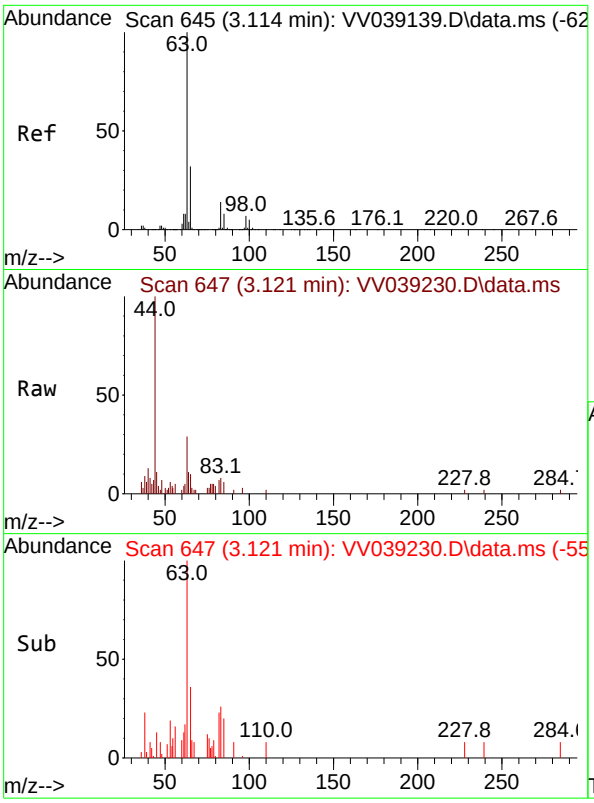




#12
1,1-Dichloroethene
Concen: 0.518 ug/l
RT: 2.079 min Scan# 323
Delta R.T. -0.003 min
Lab File: VV039230.D
Acq: 29 Sep 2025 14:38

Tgt Ion: 96 Resp: 3581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 108.6 | 136.0 | 204.0# |
| 98 | 45.2 | 51.0 | 76.6# |



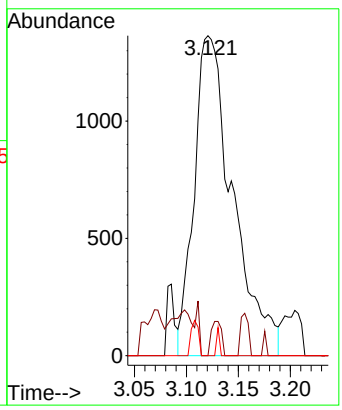


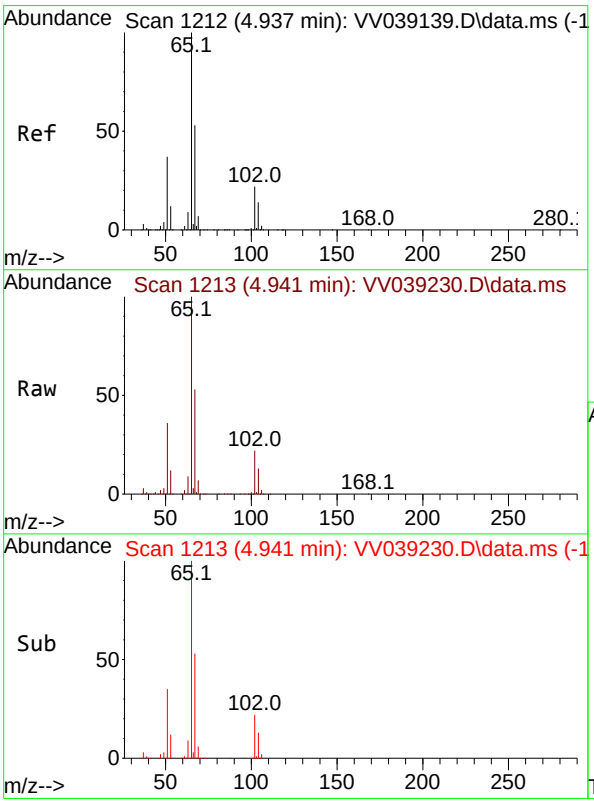

#24
1,1-Dichloroethane
Concen: 0.244 ug/l
RT: 3.121 min Scan# 64
Delta R.T. 0.006 min
Lab File: VV039230.D
Acq: 29 Sep 2025 14:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825DL

Tgt Ion: 63 Resp: 3525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 0.0 | 3.4 | 10.2# |
| 100 | 0.0 | 2.2 | 6.6# |

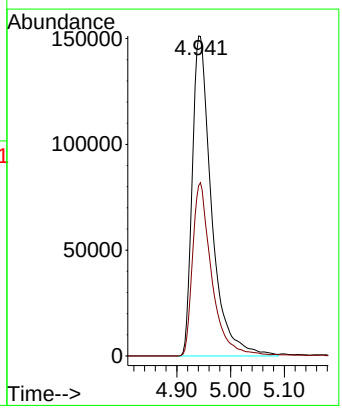


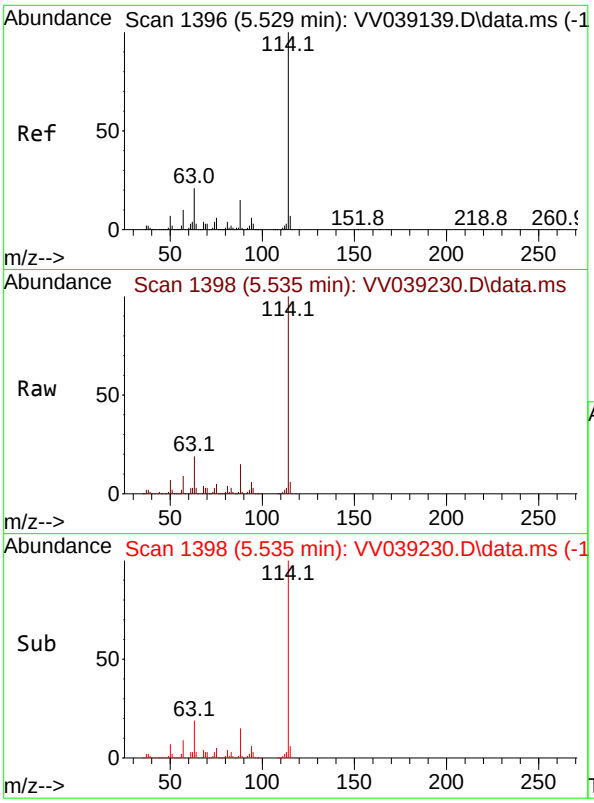




#33
1,2-Dichloroethane-d4
Concen: 56.883 ug/l
RT: 4.941 min Scan# 1213
Delta R.T. 0.003 min
Lab File: VV039230.D
Acq: 29 Sep 2025 14:38

Tgt Ion: 65 Resp: 377389

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.5 | 0.0 | 107.0 |



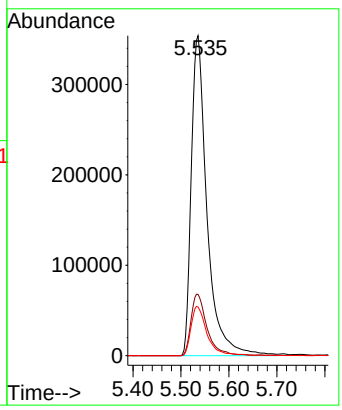


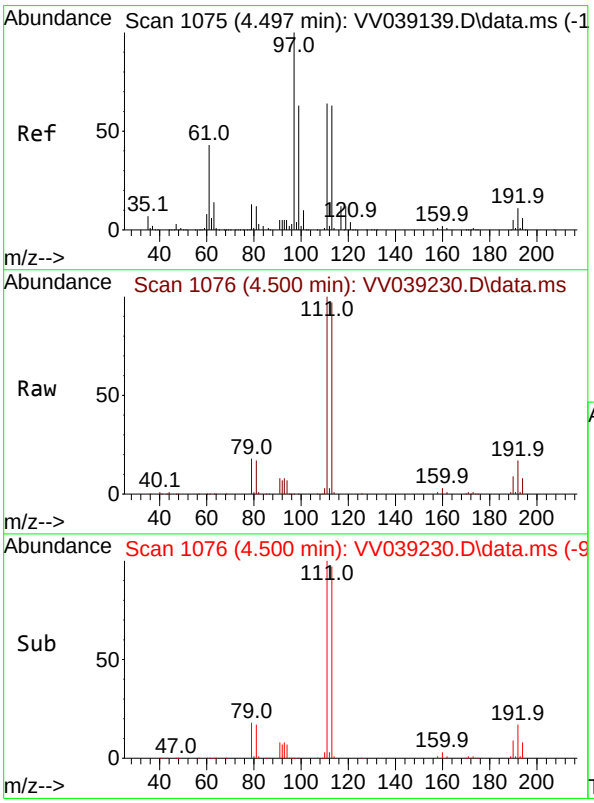

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039230.D
Acq: 29 Sep 2025 14:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825DL

Tgt Ion:114 Resp: 805402

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.1 | 0.0 | 42.6 |
| 88 | 15.2 | 0.0 | 30.8 |

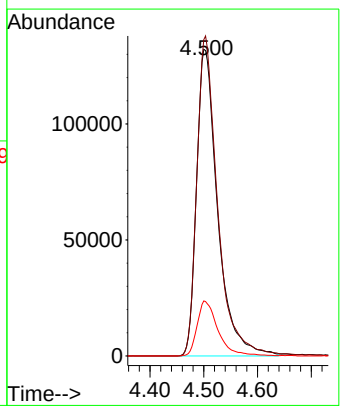


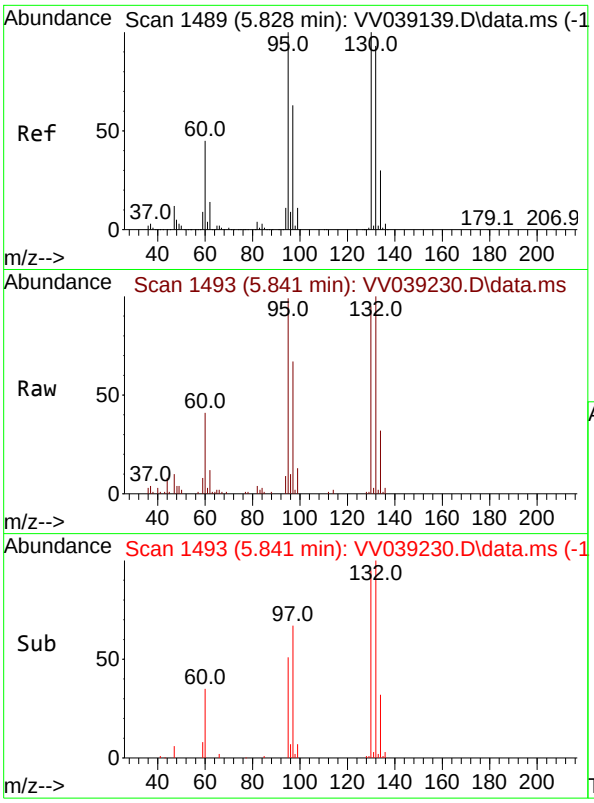




#35
Dibromofluoromethane
Concen: 55.758 ug/l
RT: 4.500 min Scan# 1076
Delta R.T. 0.003 min
Lab File: VV039230.D
Acq: 29 Sep 2025 14:38

Tgt Ion:113 Resp: 361022

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.4 | 82.4 | 123.6 |
| 192 | 17.7 | 13.8 | 20.8 |



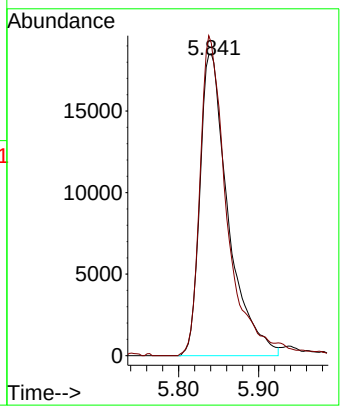


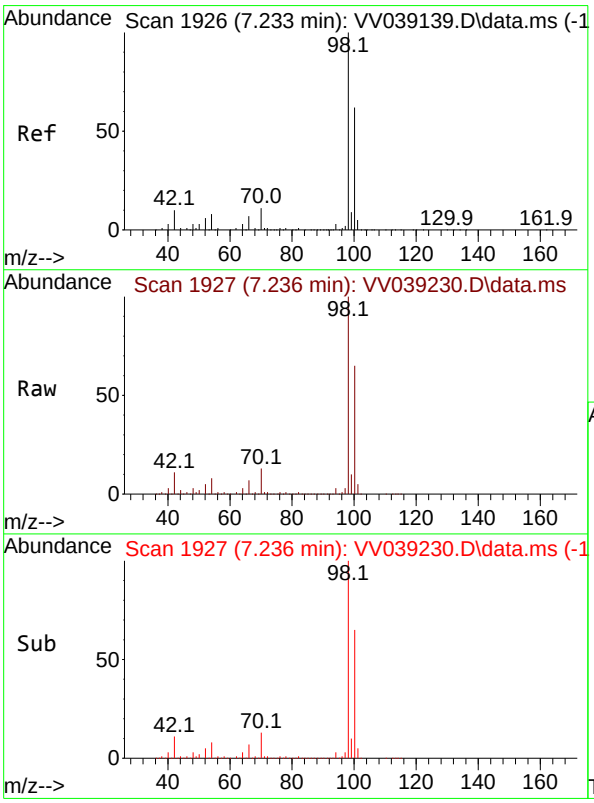

#44
Trichloroethene
Concen: 6.176 ug/l
RT: 5.841 min Scan# 14
Delta R.T. 0.013 min
Lab File: VV039230.D
Acq: 29 Sep 2025 14:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825DL

Tgt Ion:130 Resp: 45433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 103.5 | 0.0 | 199.2 |

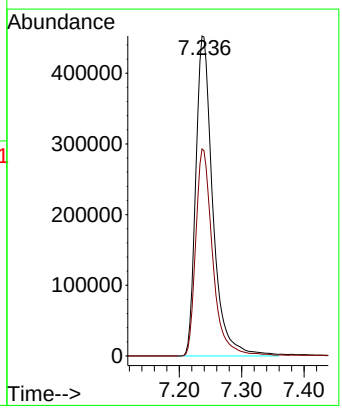


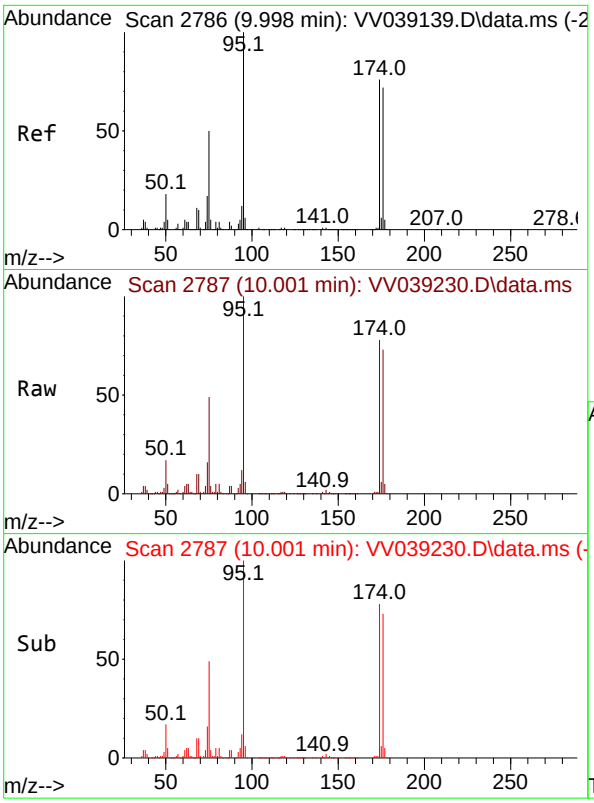




#50
Toluene-d8
Concen: 45.161 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.003 min
Lab File: VV039230.D
Acq: 29 Sep 2025 14:38

Tgt Ion: 98 Resp: 858799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.6 | 52.2 | 78.2 |



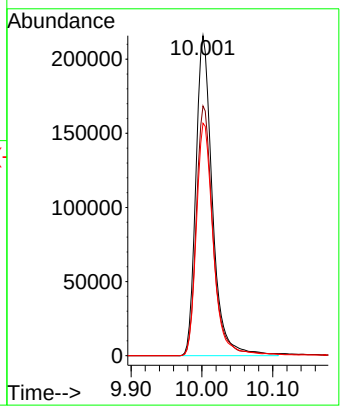


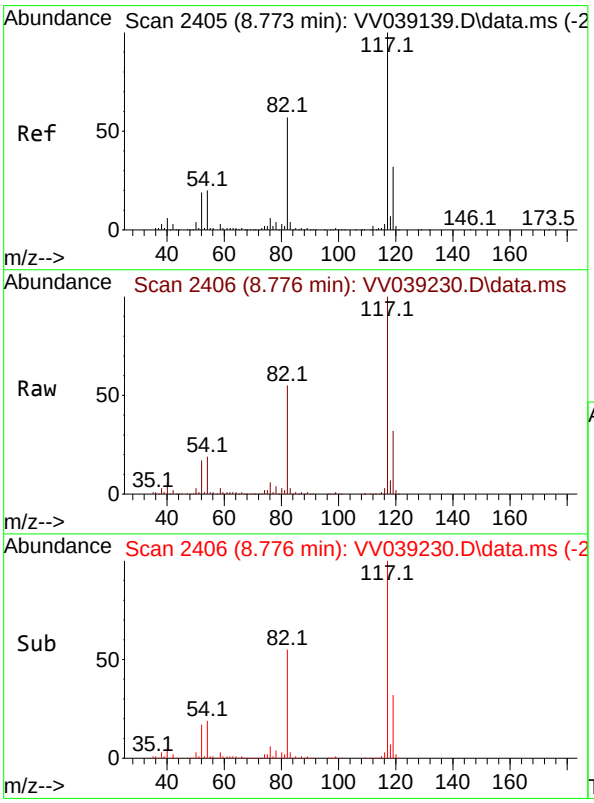

#62
4-Bromofluorobenzene
Concen: 44.775 ug/l
RT: 10.001 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039230.D
Acq: 29 Sep 2025 14:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825DL

Tgt Ion: 95 Resp: 350525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 79.0 | 0.0 | 150.4 |
| 176 | 73.7 | 0.0 | 144.2 |

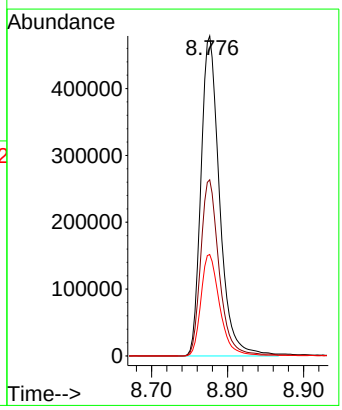


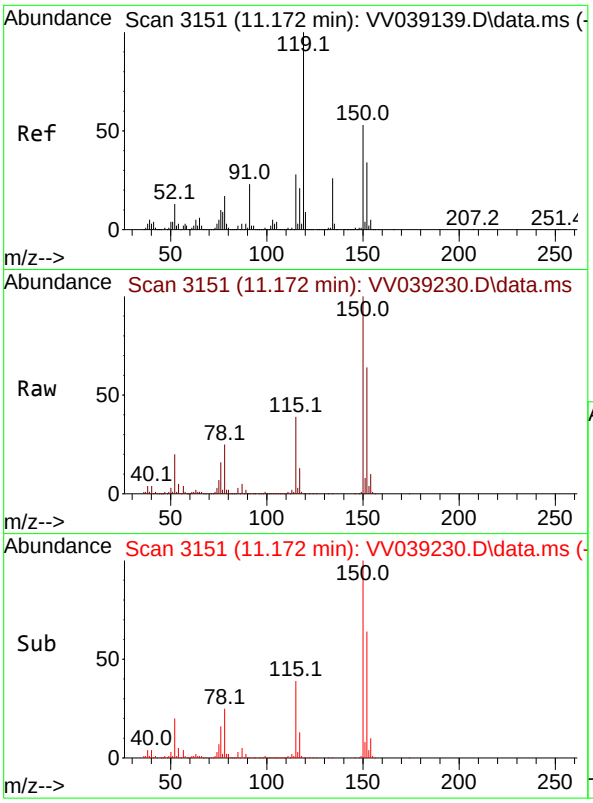




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039230.D
Acq: 29 Sep 2025 14:38

Tgt Ion:117 Resp: 812071

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 55.1 | 45.4 | 68.2 |
| 119 | 31.7 | 25.6 | 38.4 |



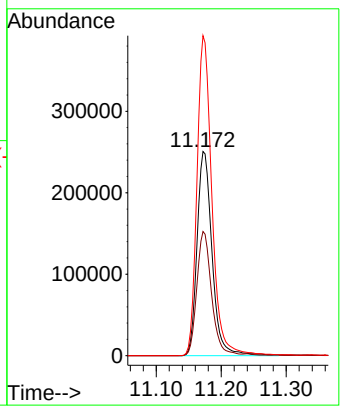



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039230.D
Acq: 29 Sep 2025 14:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825DL

Tgt Ion:152 Resp: 405371

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 59.5 | 44.8 | 134.4 |
| 150 | 155.4 | 0.0 | 353.8 |



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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/18/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-31D-091825-FD | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-17 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039216.D | 1 | 09/26/25 16:28 | VV092625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 31.6 | | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.33 | U | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 3500 | E | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 26.8 | | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 1.50 | U | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 0.27 | U | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 13.7 | | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 1.50 | U | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 1.30 | | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.25 | U | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 12.8 | | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.16 | U | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 420 | E | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | U | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.14 | U | 0.14 | 1.00 | ug/L |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/18/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-31D-091825-FD | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-17 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039216.D | 1 | 09/26/25 16:28 | VV092625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.15 | U | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.41 | J | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | U | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | U | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.53 | U | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 61.6 | | 74 - 125 | 123% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 58.4 | | 75 - 124 | 117% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 49.2 | | 86 - 113 | 98% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 43.3 | | 77 - 121 | 87% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 333000 | 4.6 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 592000 | 5.535 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 613000 | 8.776 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 283000 | 11.172 | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/18/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-31D-091825-FD | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-17 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039216.D | 1 | 09/26/25 16:28 | VV092625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 000354-23-4 | Ethane, 1,2-dichloro-1,1,2-trifluo | 310 | J | | 1.92 | ug/L |

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039216.D
Acq On : 26 Sep 2025 16:28
Operator : SY/MD
Sample : Q3195-17
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825-FD

Quant Time: Sep 29 07:52:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

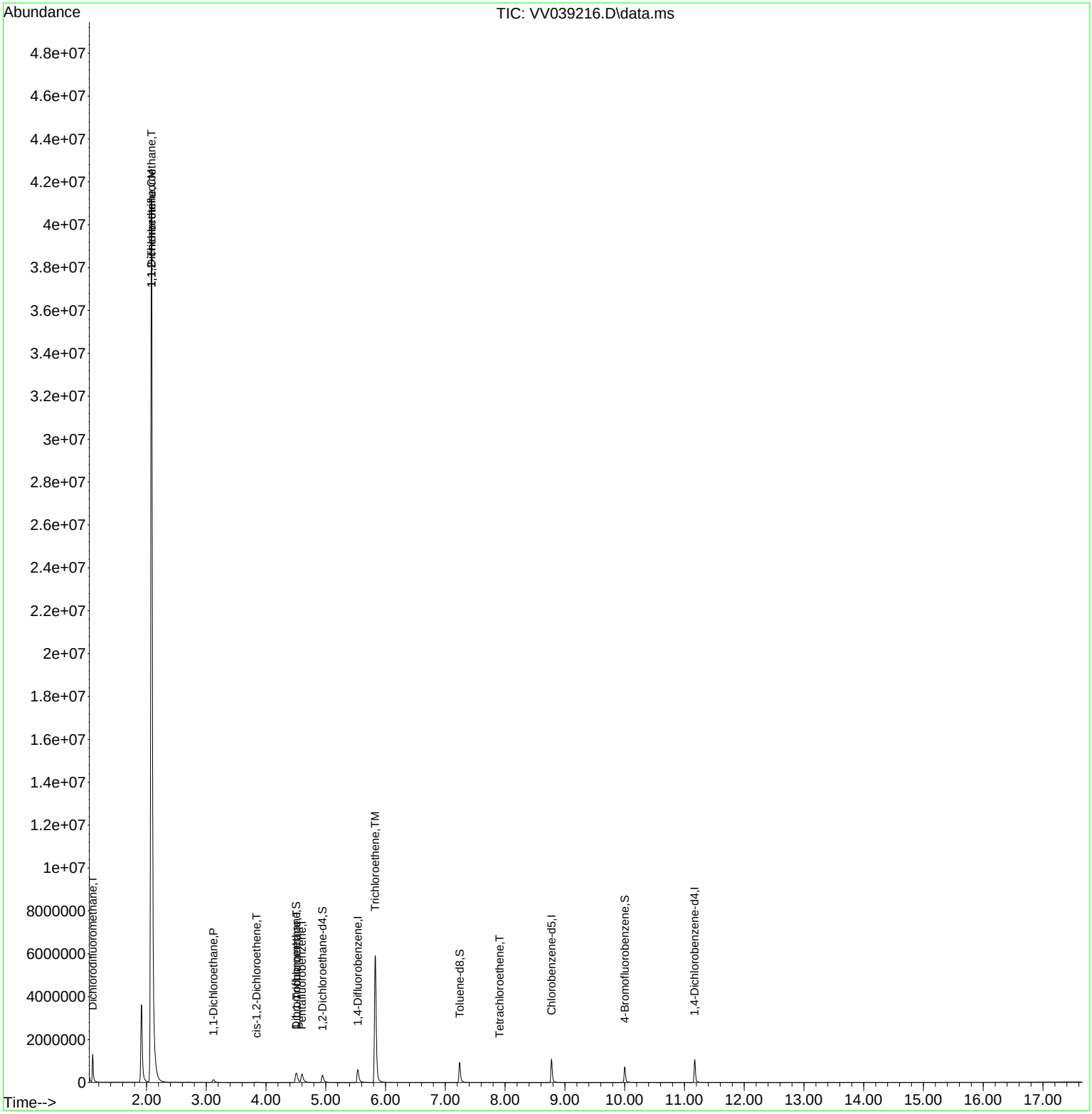
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.600 | 168 | 333282 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.535 | 114 | 591720 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.776 | 117 | 612863 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.172 | 152 | 282611 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.944 | 65 | 297286 | 61.632 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 123.260%# | | | |
| 35) Dibromofluoromethane | 4.503 | 113 | 277907 | 58.421 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 116.840% | | | |
| 50) Toluene-d8 | 7.240 | 98 | 687399 | 49.201 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 98.400% | | | |
| 62) 4-Bromofluorobenzene | 10.002 | 95 | 248948 | 43.284 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 86.560% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.098 | 85 | 166827 | 31.621 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 2.082 | 101 | 18130416 | 3471.017 | ug/l | 98 |
| 12) 1,1-Dichloroethene | 2.082 | 96 | 134462 | 26.759 | ug/l # | 72 |
| 24) 1,1-Dichloroethane | 3.121 | 63 | 143864 | 13.698 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 3.841 | 96 | 7783 | 1.319 | ug/l | 85 |
| 32) 1,1,1-Trichloroethane | 4.513 | 97 | 121055 | 12.750 | ug/l | 97 |
| 44) Trichloroethene | 5.828 | 130 | 2270715 | 420.172 | ug/l | 99 |
| 64) Tetrachloroethene | 7.908 | 164 | 2091 | 0.407 | ug/l # | 83 |

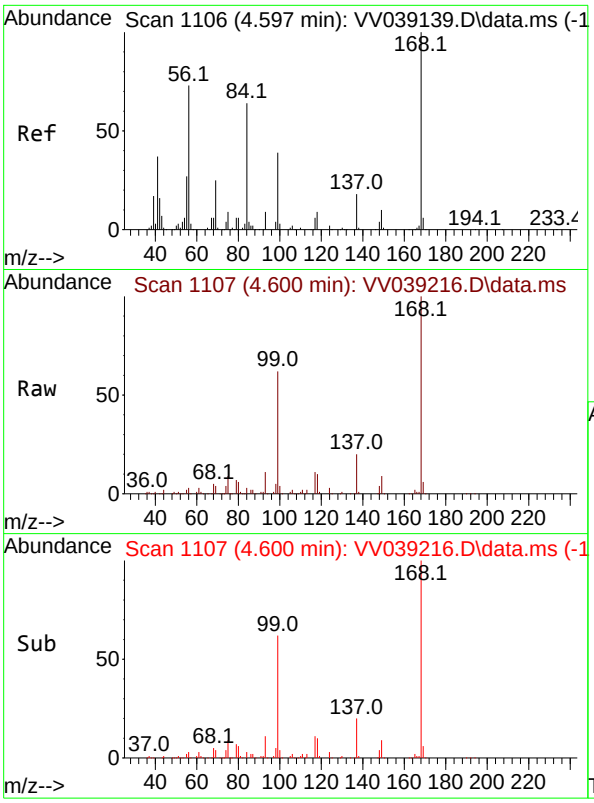
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039216.D
Acq On : 26 Sep 2025 16:28
Operator : SY/MD
Sample : Q3195-17
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825-FD

Quant Time: Sep 29 07:52:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



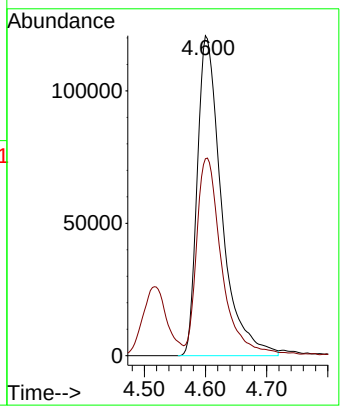


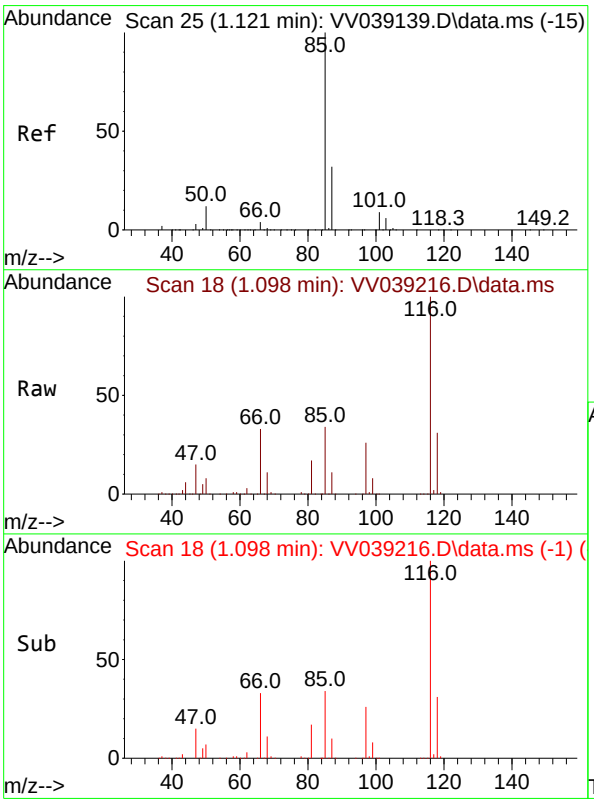

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039216.D
Acq: 26 Sep 2025 16:28

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825-FD

Tgt Ion:168 Resp: 333282

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 60.5 | 49.6 | 74.4 |

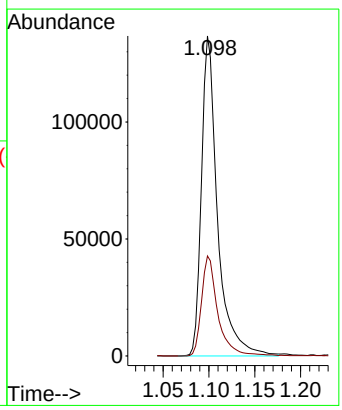


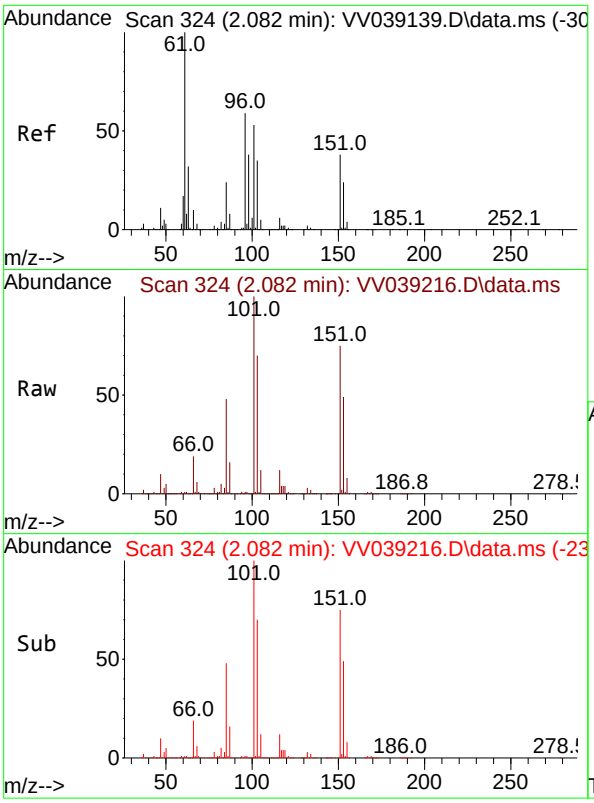




#2
Dichlorodifluoromethane
Concen: 31.621 ug/l
RT: 1.098 min Scan# 18
Delta R.T. -0.022 min
Lab File: VV039216.D
Acq: 26 Sep 2025 16:28

Tgt Ion: 85 Resp: 166827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.3 | 16.0 | 47.9 |



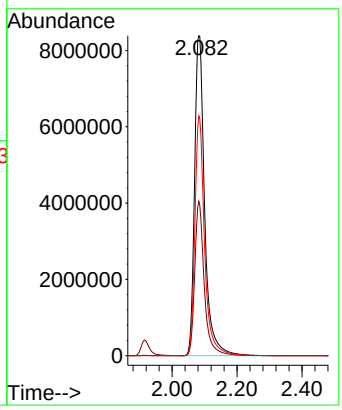


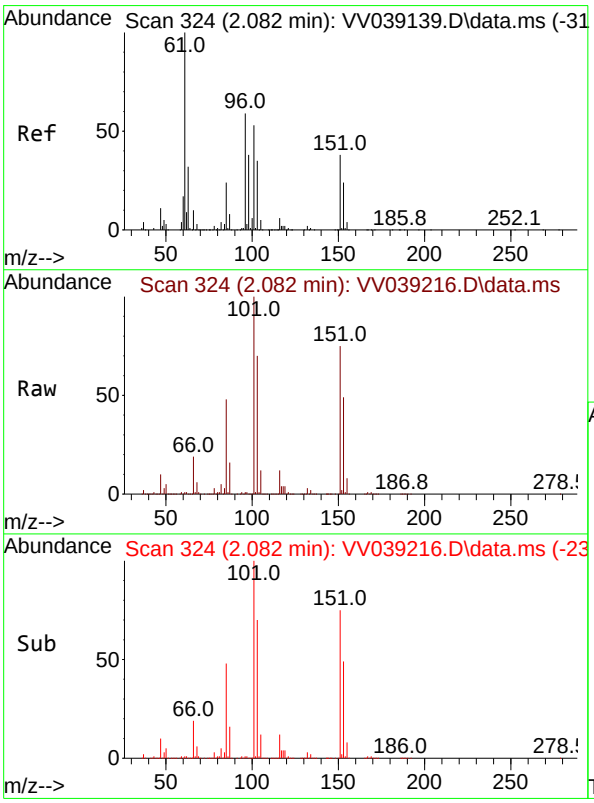

#9
1,1,2-Trichlorotrifluoroethane
Concen: 3471.017 ug/l
RT: 2.082 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039216.D
Acq: 26 Sep 2025 16:28

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825-FD

Tgt Ion:101 Resp:18130416

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 45.5 | 36.2 | 54.2 |
| 151 | 72.5 | 56.3 | 84.5 |

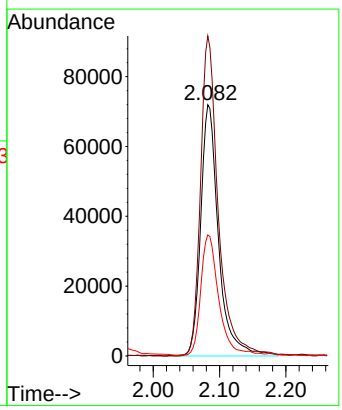


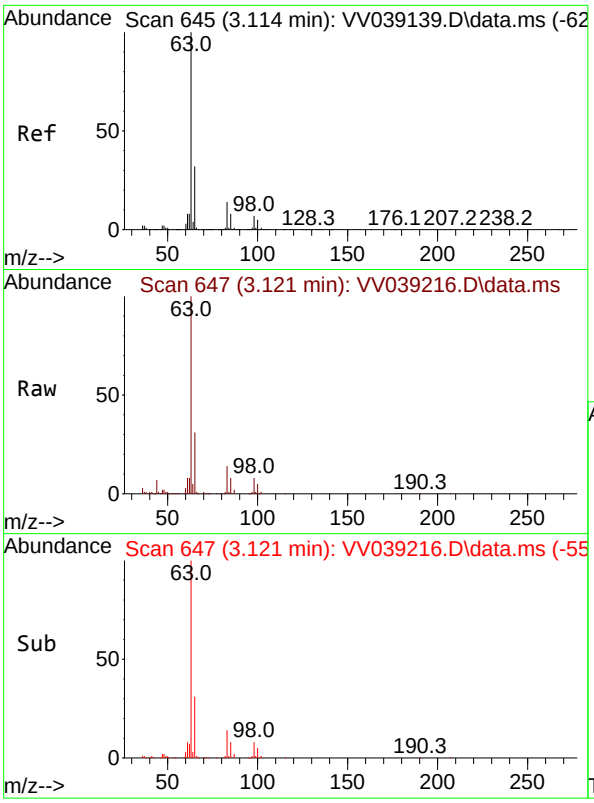




#12
1,1-Dichloroethene
Concen: 26.759 ug/l
RT: 2.082 min Scan# 324
Delta R.T. 0.000 min
Lab File: VV039216.D
Acq: 26 Sep 2025 16:28

Tgt Ion: 96 Resp: 134462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 127.3 | 136.0 | 204.0# |
| 98 | 47.9 | 51.0 | 76.6# |



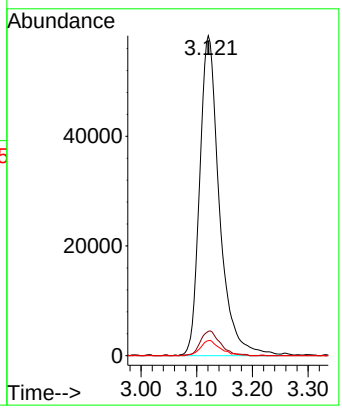


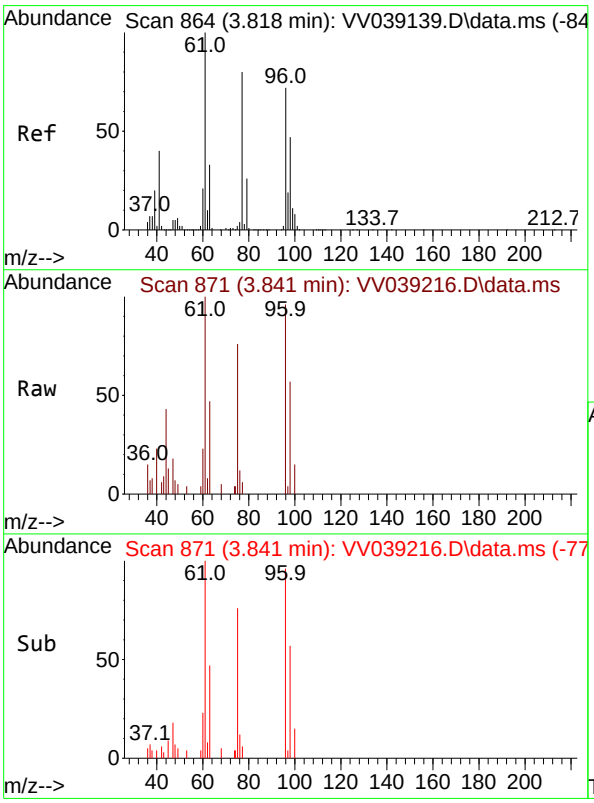

#24
1,1-Dichloroethane
Concen: 13.698 ug/l
RT: 3.121 min Scan# 64
Delta R.T. 0.006 min
Lab File: VV039216.D
Acq: 26 Sep 2025 16:28

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825-FD

Tgt Ion: 63 Resp: 143864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.6 | 3.4 | 10.2 |
| 100 | 4.7 | 2.2 | 6.6 |

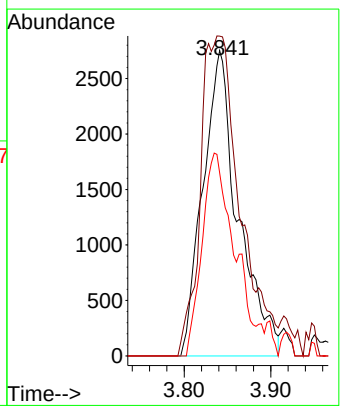


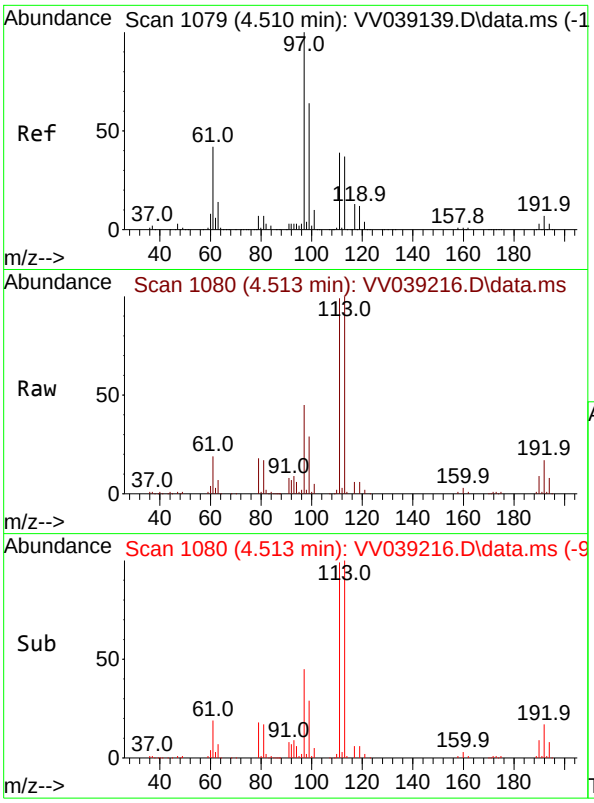




#27
cis-1,2-Dichloroethene
Concen: 1.319 ug/l
RT: 3.841 min Scan# 871
Delta R.T. 0.023 min
Lab File: VV039216.D
Acq: 26 Sep 2025 16:28

Tgt Ion: 96 Resp: 7783

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 117.3 | 0.0 | 286.4 |
| 98 | 62.2 | 0.0 | 126.6 |



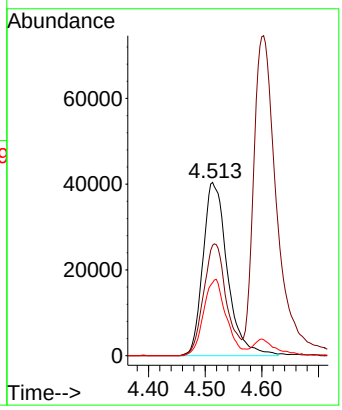


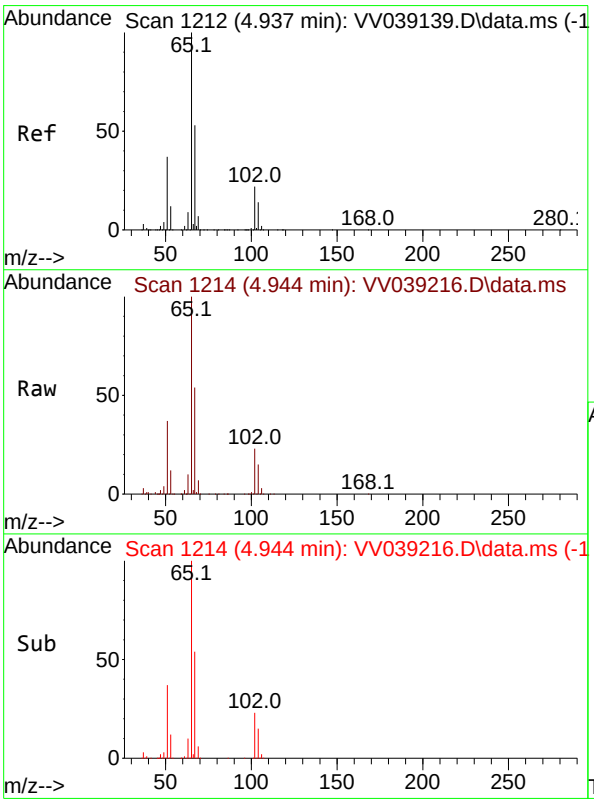

#32
1,1,1-Trichloroethane
Concen: 12.750 ug/l
RT: 4.513 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039216.D
Acq: 26 Sep 2025 16:28

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825-FD

Tgt Ion: 97 Resp: 121055

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 60.2 | 49.6 | 74.4 |
| 61 | 41.1 | 34.5 | 51.7 |

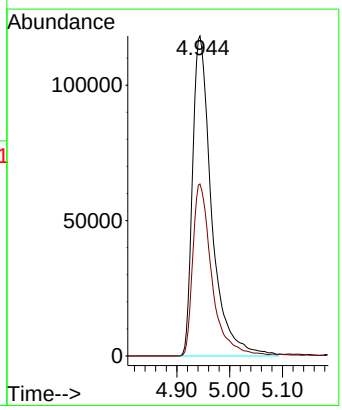


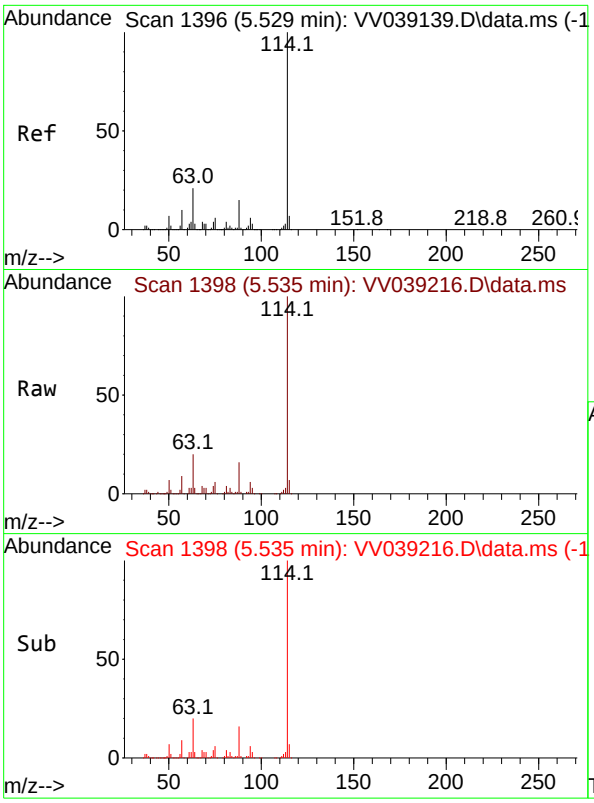




#33
1,2-Dichloroethane-d4
Concen: 61.632 ug/l
RT: 4.944 min Scan# 1214
Delta R.T. 0.006 min
Lab File: VV039216.D
Acq: 26 Sep 2025 16:28

Tgt Ion: 65 Resp: 297286

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.5 | 0.0 | 107.0 |



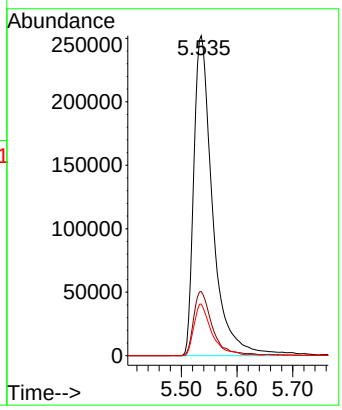


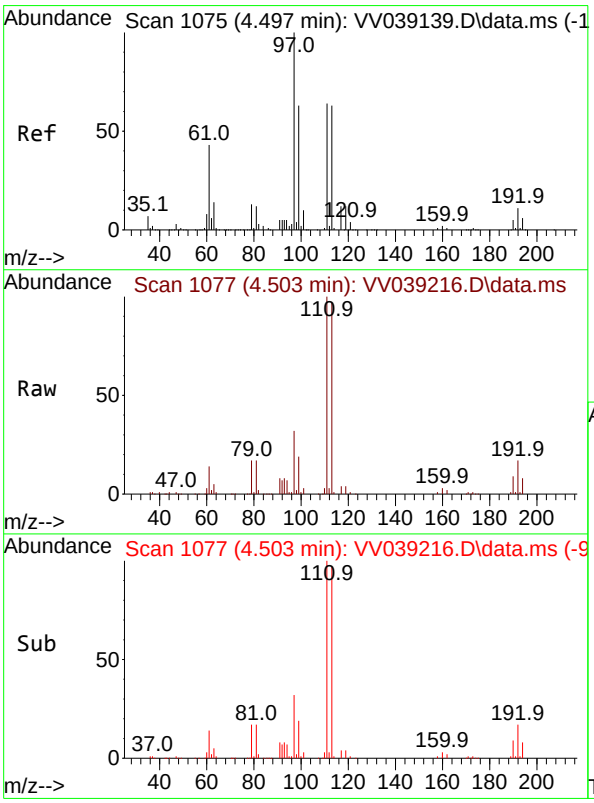

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039216.D
Acq: 26 Sep 2025 16:28

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825-FD

Tgt Ion:114 Resp: 591720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.0 | 0.0 | 42.6 |
| 88 | 16.2 | 0.0 | 30.8 |

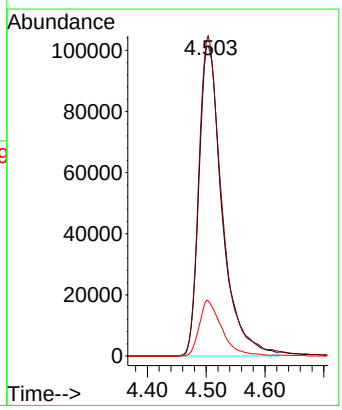


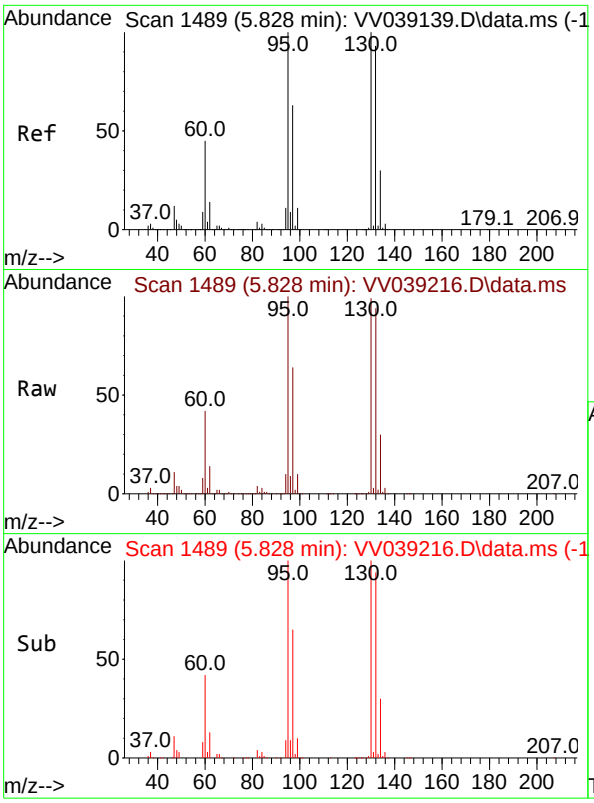




#35
Dibromofluoromethane
Concen: 58.421 ug/l
RT: 4.503 min Scan# 1077
Delta R.T. 0.006 min
Lab File: VV039216.D
Acq: 26 Sep 2025 16:28

Tgt Ion:113 Resp: 277907

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.9 | 82.4 | 123.6 |
| 192 | 17.4 | 13.8 | 20.8 |



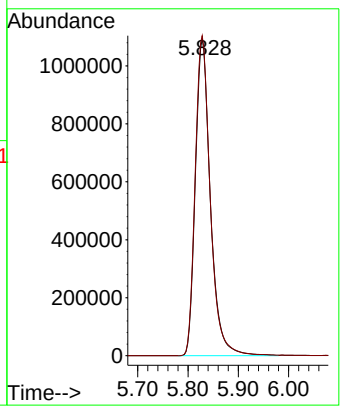


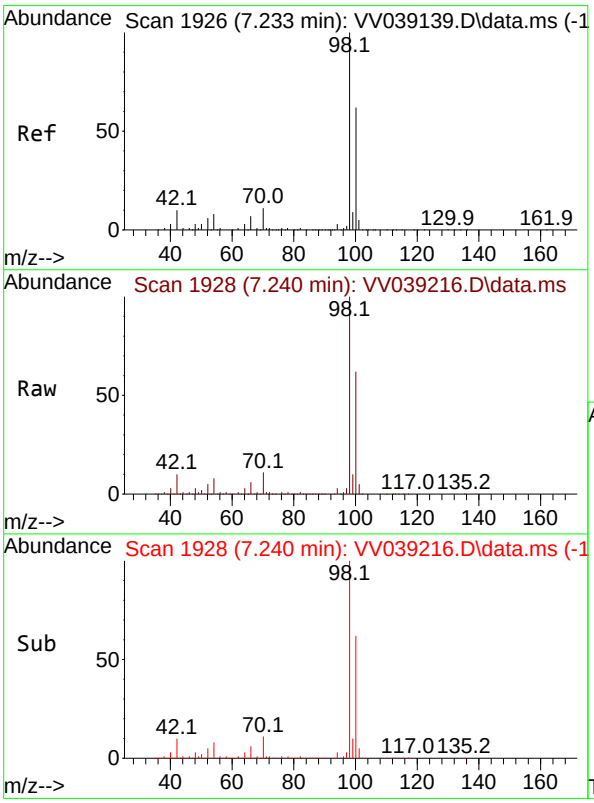

#44
Trichloroethene
Concen: 420.172 ug/l
RT: 5.828 min Scan# 14
Delta R.T. 0.000 min
Lab File: VV039216.D
Acq: 26 Sep 2025 16:28

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825-FD

Tgt Ion:130 Resp: 2270715

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 101.0 | 0.0 | 199.2 |

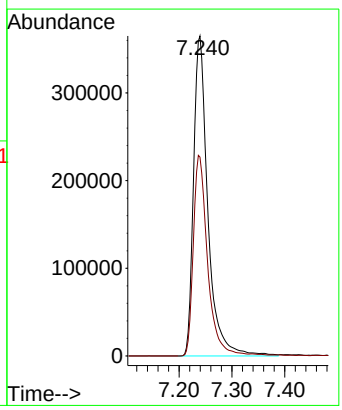


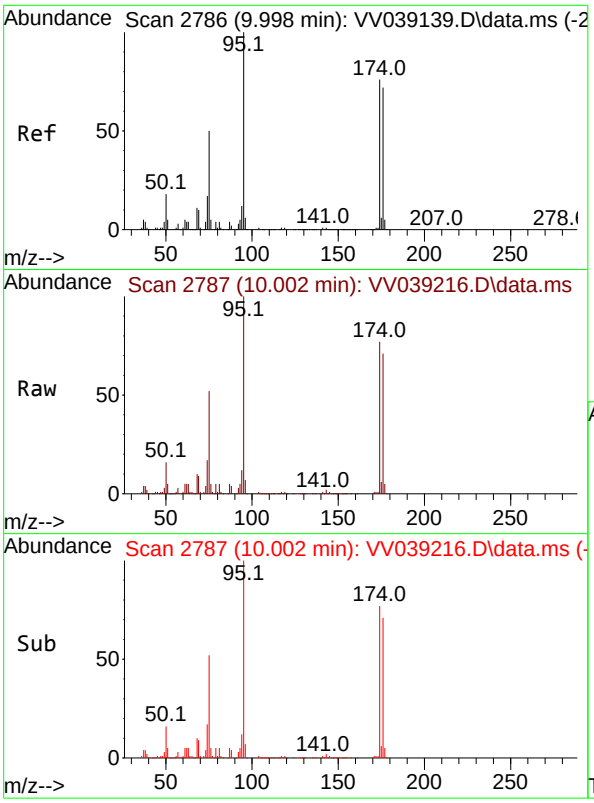




#50
Toluene-d8
Concen: 49.201 ug/l
RT: 7.240 min Scan# 1928
Delta R.T. 0.006 min
Lab File: VV039216.D
Acq: 26 Sep 2025 16:28

Tgt Ion: 98 Resp: 687399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 62.1 | 52.2 | 78.2 |



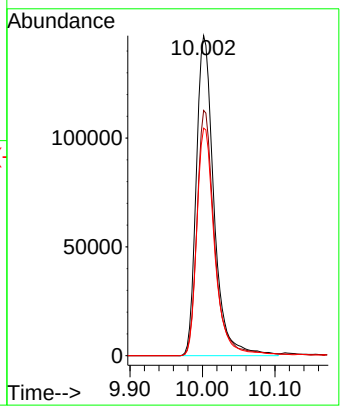


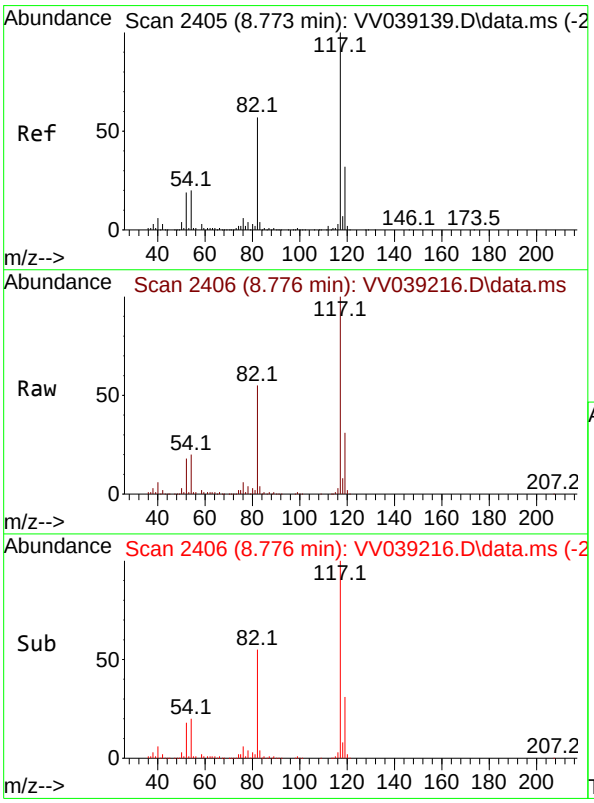

#62
4-Bromofluorobenzene
Concen: 43.284 ug/l
RT: 10.002 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039216.D
Acq: 26 Sep 2025 16:28

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825-FD

Tgt Ion: 95 Resp: 248948

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 76.4 | 0.0 | 150.4 |
| 176 | 72.3 | 0.0 | 144.2 |

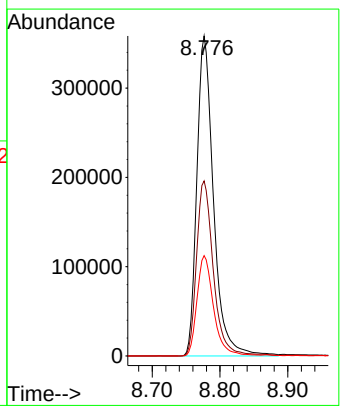


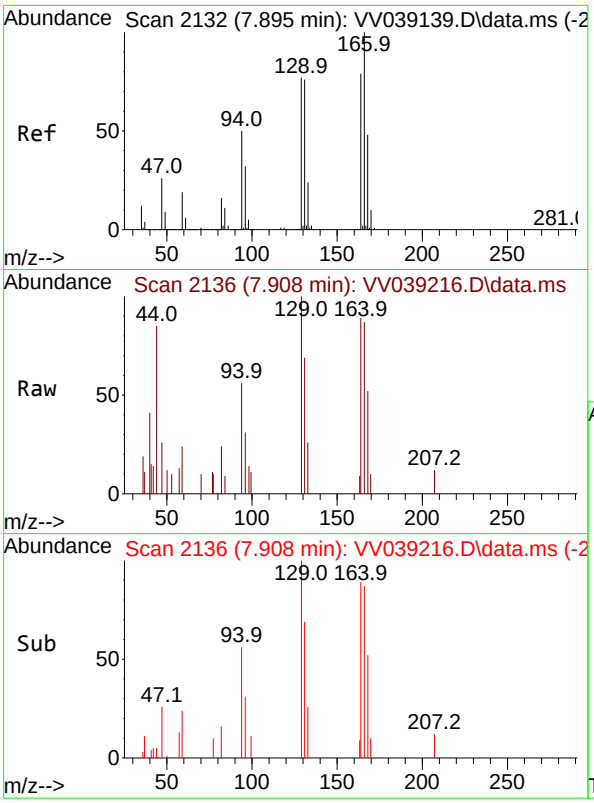




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039216.D
Acq: 26 Sep 2025 16:28

Tgt Ion:117 Resp: 612863

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.7 | 45.4 | 68.2 |
| 119 | 31.4 | 25.6 | 38.4 |



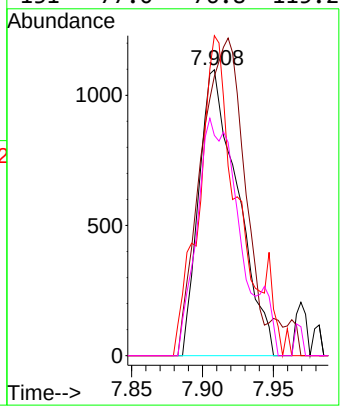


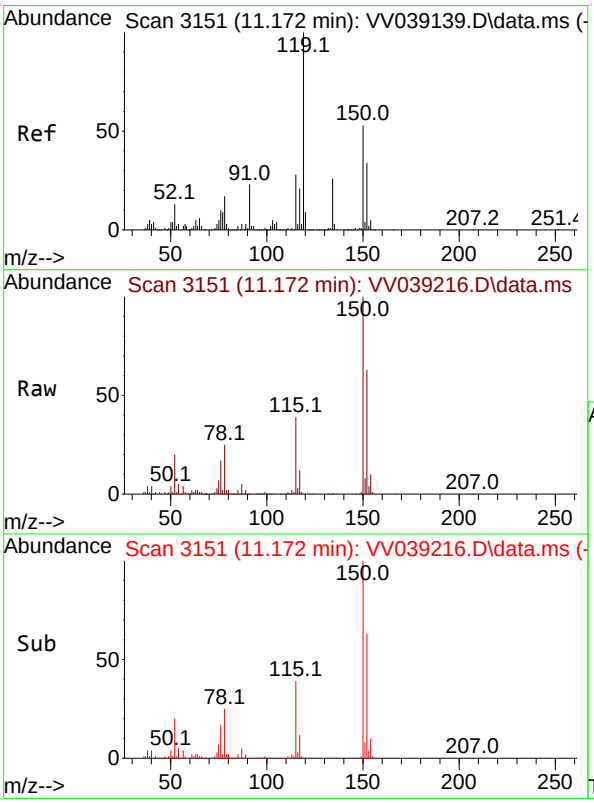

#64
Tetrachloroethene
Concen: 0.407 ug/l
RT: 7.908 min Scan# 21
Delta R.T. 0.013 min
Lab File: VV039216.D
Acq: 26 Sep 2025 16:28

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825-FD

Tgt Ion:164 Resp: 2091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 97.7 | 101.6 | 152.4# |
| 129 | 101.8 | 78.5 | 117.7 |
| 131 | 77.0 | 76.8 | 115.2 |

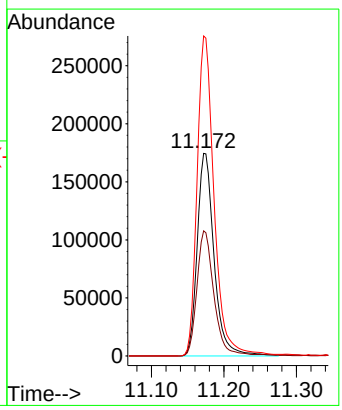



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039216.D
Acq: 26 Sep 2025 16:28

Tgt Ion:152 Resp: 282611

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 61.7 | 44.8 | 134.4 |
| 150 | 159.0 | 0.0 | 353.8 |



Sample Results: **VV039216.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039216.D
Acq On : 26 Sep 2025 16:28
Operator : SY/MD
Sample : Q3195-17
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825-FD

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039216.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.098 | 11 | 18 | 50 | rVB | 1297140 | 1660196 | 1.95% | 1.430% |
| 2 | 1.915 | 260 | 272 | 309 | rBV | 3609837 | 6652617 | 7.82% | 5.731% |
| 3 | 2.082 | 309 | 324 | 396 | rVB | 41188431 | 85076012 | 100.00% | 73.293% |
| 4 | 4.507 | 1062 | 1078 | 1097 | rBV3 | 436951 | 1231156 | 1.45% | 1.061% |
| 5 | 4.603 | 1097 | 1108 | 1144 | rVB | 387054 | 1077200 | 1.27% | 0.928% |
| 6 | 5.535 | 1386 | 1398 | 1433 | rBV | 594049 | 1413065 | 1.66% | 1.217% |
| 7 | 5.828 | 1473 | 1489 | 1536 | rBV | 5913360 | 12395813 | 14.57% | 10.679% |
| 8 | 7.240 | 1917 | 1928 | 1963 | rBV | 926623 | 1774872 | 2.09% | 1.529% |
| 9 | 8.776 | 2395 | 2406 | 2429 | rBV | 1058995 | 1820556 | 2.14% | 1.568% |
| 10 | 10.002 | 2773 | 2787 | 2827 | rBV | 714583 | 1247642 | 1.47% | 1.075% |
| 11 | 11.172 | 3141 | 3151 | 3184 | rBV | 1051124 | 1727411 | 2.03% | 1.488% |

Sum of corrected areas: 116076540

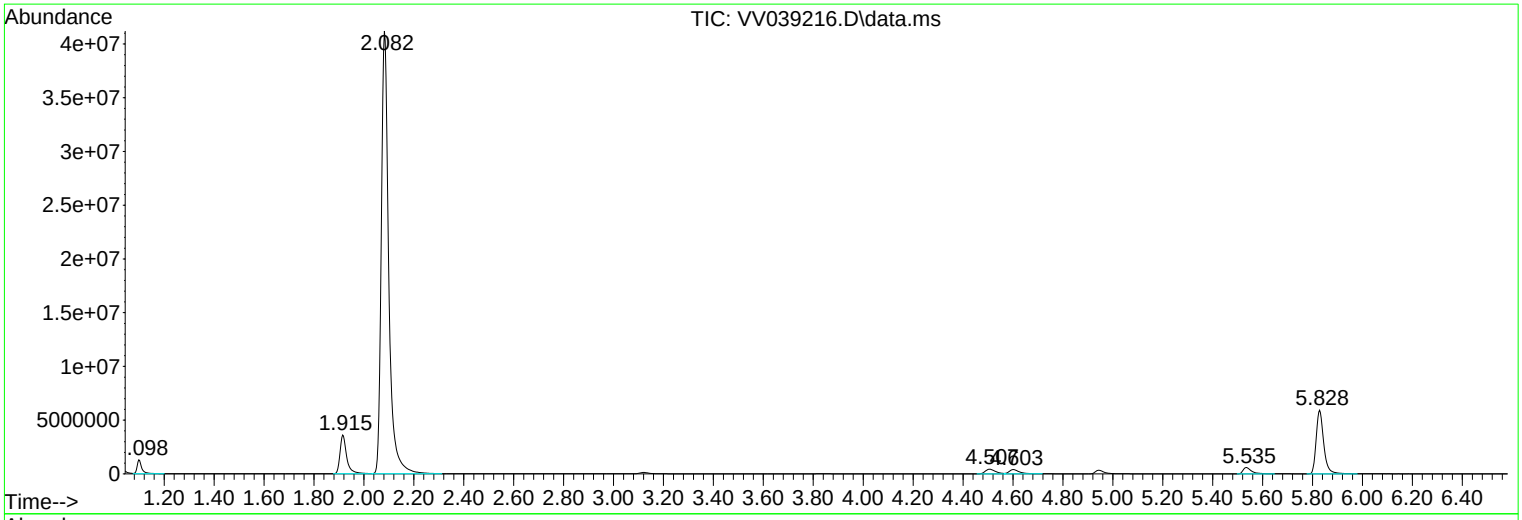
Sample Results: **VV039216.D**

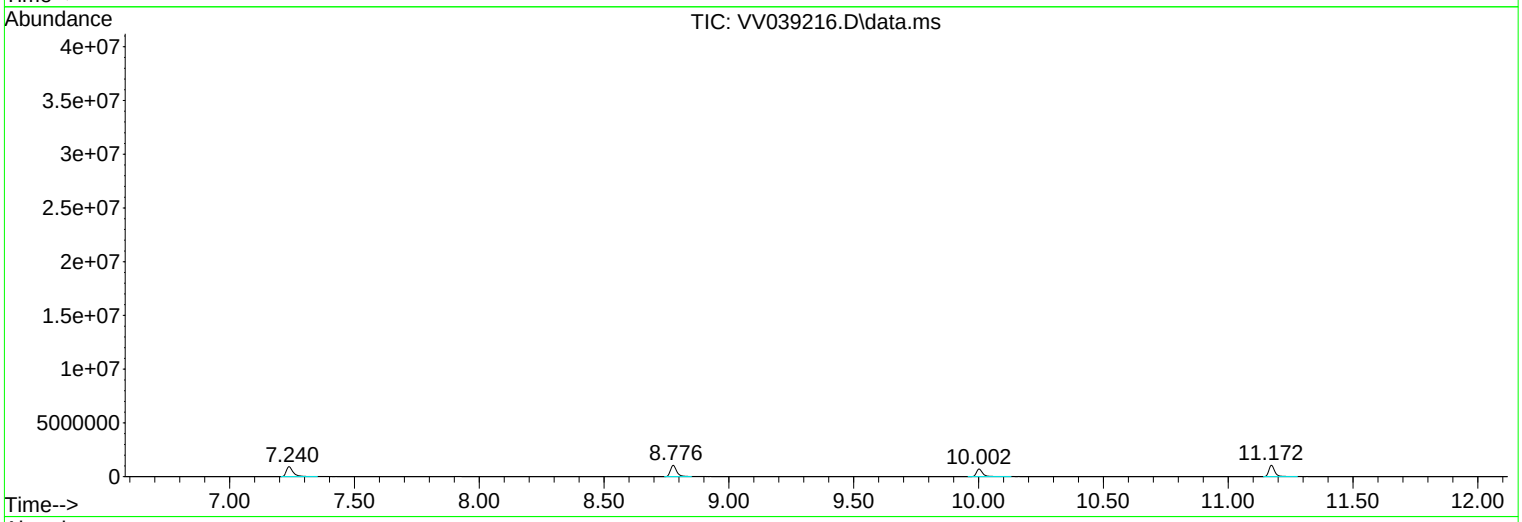
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039216.D
Acq On : 26 Sep 2025 16:28
Operator : SY/MD
Sample : Q3195-17
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 20 Sample Multiplier: 1

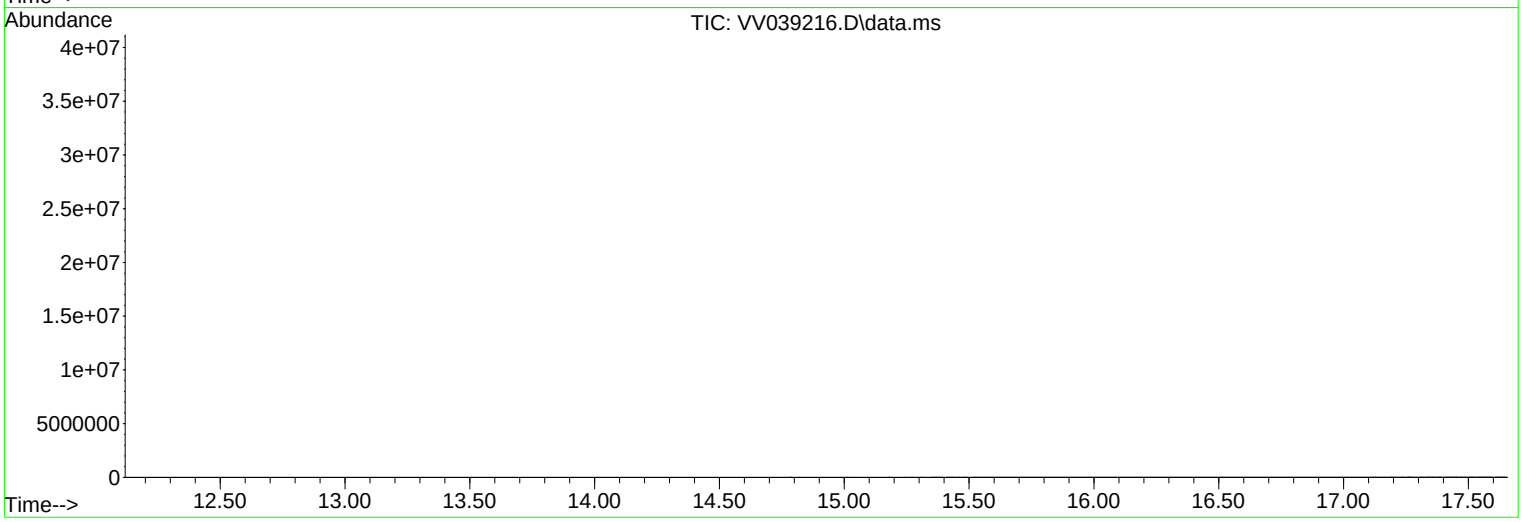
**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825-FD

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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



```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039216.D
Acq On    : 26 Sep 2025  16:28
Operator  : SY/MD
Sample    : Q3195-17
Misc      : 5.0mL/MSVOA_V/WATER
ALS Vial  : 20   Sample Multiplier: 1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title  : SW846 8260

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

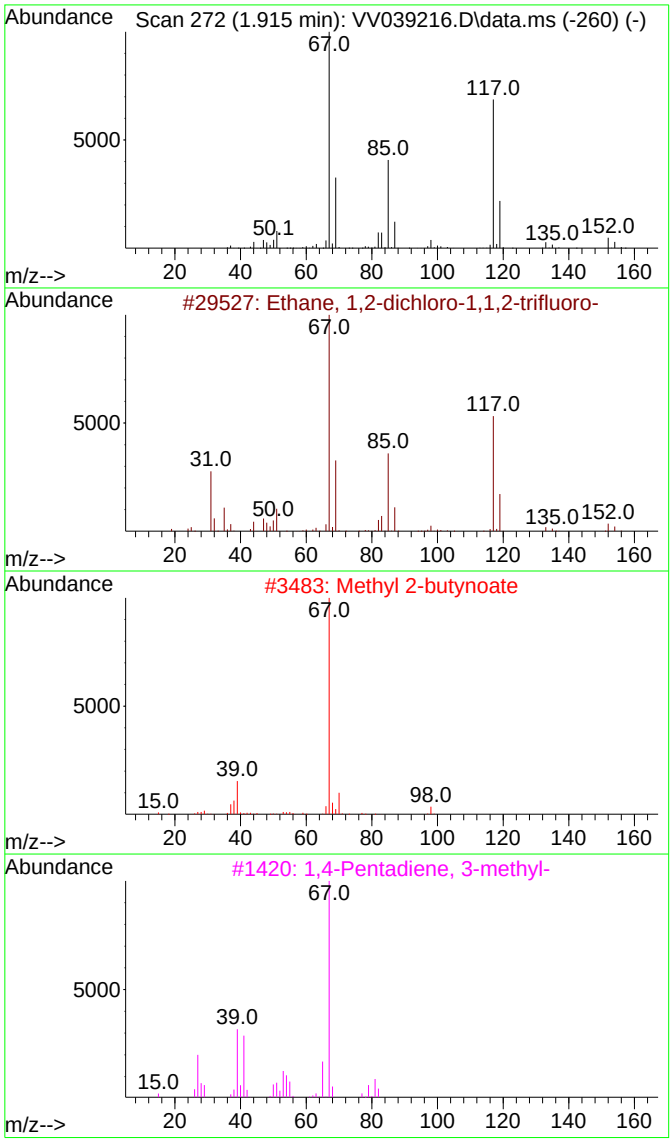
**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825-FD

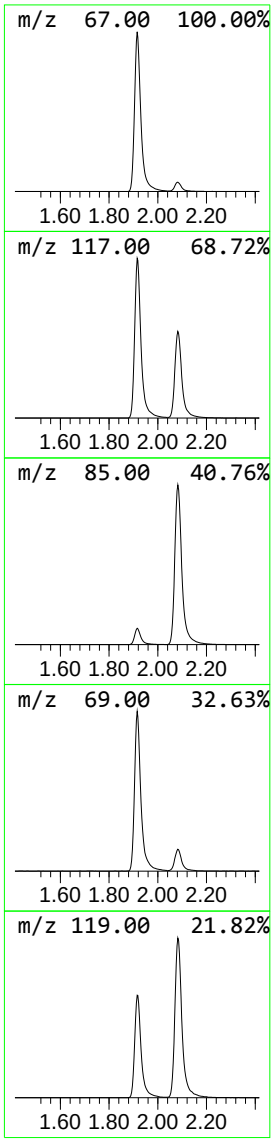
**********

Peak Number 1 Ethane, 1,2-dichloro-1,1,2-... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.915 | 308.79 ug/l | 6652620 | Pentafluorobenzene | 4.600 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Ethane, 1,2-dichloro-1,1,2-trifl... | 152 | C2HCl2F3 | 000354-23-4 | 91 |
| 2 | Methyl 2-butynoate | 98 | C5H6O2 | 023326-27-4 | 9 |
| 3 | 1,4-Pentadiene, 3-methyl- | 82 | C6H10 | 001115-08-8 | 9 |
| 4 | Cyclopropane, 1,2-dimethyl-3-met... | 82 | C6H10 | 062338-02-7 | 9 |
| 5 | Cyclopentene, 3-methyl- | 82 | C6H10 | 001120-62-3 | 9 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039216.D
Acq On : 26 Sep 2025 16:28
Operator : SY/MD
Sample : Q3195-17
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825-FD

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Ethane, 1,2-dic... | 1.915 | 308.8 | ug/l | 6652620 | 1 | 4.600 | 1077200 | 50.0 |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/18/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-31D-091825-FDDL | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-17DL | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039231.D | 50 | 09/29/25 15:01 | VV092925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 22.6 | JD | 11.0 | 50.0 | ug/L |
| 74-87-3 | Chloromethane | 16.0 | UD | 16.0 | 50.0 | ug/L |
| 75-01-4 | Vinyl Chloride | 13.0 | UD | 13.0 | 50.0 | ug/L |
| 74-83-9 | Bromomethane | 72.0 | UD | 72.0 | 250 | ug/L |
| 75-00-3 | Chloroethane | 23.5 | UD | 23.5 | 50.0 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 16.5 | UD | 16.5 | 50.0 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 2400 | D | 12.5 | 50.0 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 11.5 | UD | 11.5 | 50.0 | ug/L |
| 67-64-1 | Acetone | 75.5 | UD | 75.5 | 250 | ug/L |
| 75-15-0 | Carbon Disulfide | 10.5 | UD | 10.5 | 50.0 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 8.00 | UD | 8.00 | 50.0 | ug/L |
| 79-20-9 | Methyl Acetate | 13.5 | UD | 13.5 | 50.0 | ug/L |
| 75-09-2 | Methylene Chloride | 14.0 | UD | 14.0 | 50.0 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 11.5 | UD | 11.5 | 50.0 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 11.5 | UD | 11.5 | 50.0 | ug/L |
| 110-82-7 | Cyclohexane | 72.5 | UD | 72.5 | 250 | ug/L |
| 78-93-3 | 2-Butanone | 49.0 | UD | 49.0 | 250 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 12.5 | UD | 12.5 | 50.0 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 9.50 | UD | 9.50 | 50.0 | ug/L |
| 74-97-5 | Bromochloromethane | 11.0 | UD | 11.0 | 50.0 | ug/L |
| 67-66-3 | Chloroform | 12.5 | UD | 12.5 | 50.0 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 10.0 | UD | 10.0 | 50.0 | ug/L |
| 108-87-2 | Methylcyclohexane | 8.00 | UD | 8.00 | 50.0 | ug/L |
| 71-43-2 | Benzene | 7.50 | UD | 7.50 | 50.0 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 11.0 | UD | 11.0 | 50.0 | ug/L |
| 79-01-6 | Trichloroethene | 250 | D | 4.70 | 50.0 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 10.0 | UD | 10.0 | 50.0 | ug/L |
| 75-27-4 | Bromodichloromethane | 11.0 | UD | 11.0 | 50.0 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 34.0 | UDQ | 34.0 | 250 | ug/L |
| 108-88-3 | Toluene | 7.00 | UDQ | 7.00 | 50.0 | ug/L |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/18/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-31D-091825-FDDL | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-17DL | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039231.D | 50 | 09/29/25 15:01 | VV092925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 8.50 | UD | 8.50 | 50.0 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 8.00 | UD | 8.00 | 50.0 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 10.5 | UD | 10.5 | 50.0 | ug/L |
| 591-78-6 | 2-Hexanone | 44.5 | UD | 44.5 | 250 | ug/L |
| 124-48-1 | Dibromochloromethane | 9.00 | UD | 9.00 | 50.0 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 7.50 | UDQ | 7.50 | 50.0 | ug/L |
| 127-18-4 | Tetrachloroethene | 11.5 | UD | 11.5 | 50.0 | ug/L |
| 108-90-7 | Chlorobenzene | 6.00 | UD | 6.00 | 50.0 | ug/L |
| 100-41-4 | Ethyl Benzene | 6.50 | UD | 6.50 | 50.0 | ug/L |
| 179601-23-1 | m/p-Xylenes | 12.0 | UDQ | 12.0 | 100 | ug/L |
| 95-47-6 | o-Xylene | 6.00 | UD | 6.00 | 50.0 | ug/L |
| 100-42-5 | Styrene | 7.50 | UD | 7.50 | 50.0 | ug/L |
| 75-25-2 | Bromoform | 9.50 | UDQ | 9.50 | 50.0 | ug/L |
| 98-82-8 | Isopropylbenzene | 6.00 | UD | 6.00 | 50.0 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 13.0 | UD | 13.0 | 50.0 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 8.00 | UD | 8.00 | 50.0 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 9.50 | UD | 9.50 | 50.0 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 8.00 | UD | 8.00 | 50.0 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 26.5 | UD | 26.5 | 50.0 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 10.0 | UD | 10.0 | 50.0 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 10.0 | UD | 10.0 | 50.0 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 56.7 | | 74 - 125 | 113% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 56.6 | | 75 - 124 | 113% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 45.8 | | 86 - 113 | 92% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 45.2 | | 77 - 121 | 90% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 456000 | 4.6 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 804000 | 5.535 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 820000 | 8.776 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 405000 | 11.175 | | | |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/18/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-31D-091825-FDDL | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-17DL | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039231.D | 50 | 09/29/25 15:01 | VV092925 |

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039231.D
Acq On : 29 Sep 2025 15:01
Operator : SY/MD
Sample : Q3195-17DL 50X
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825-FDDL

Quant Time: Sep 30 01:26:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

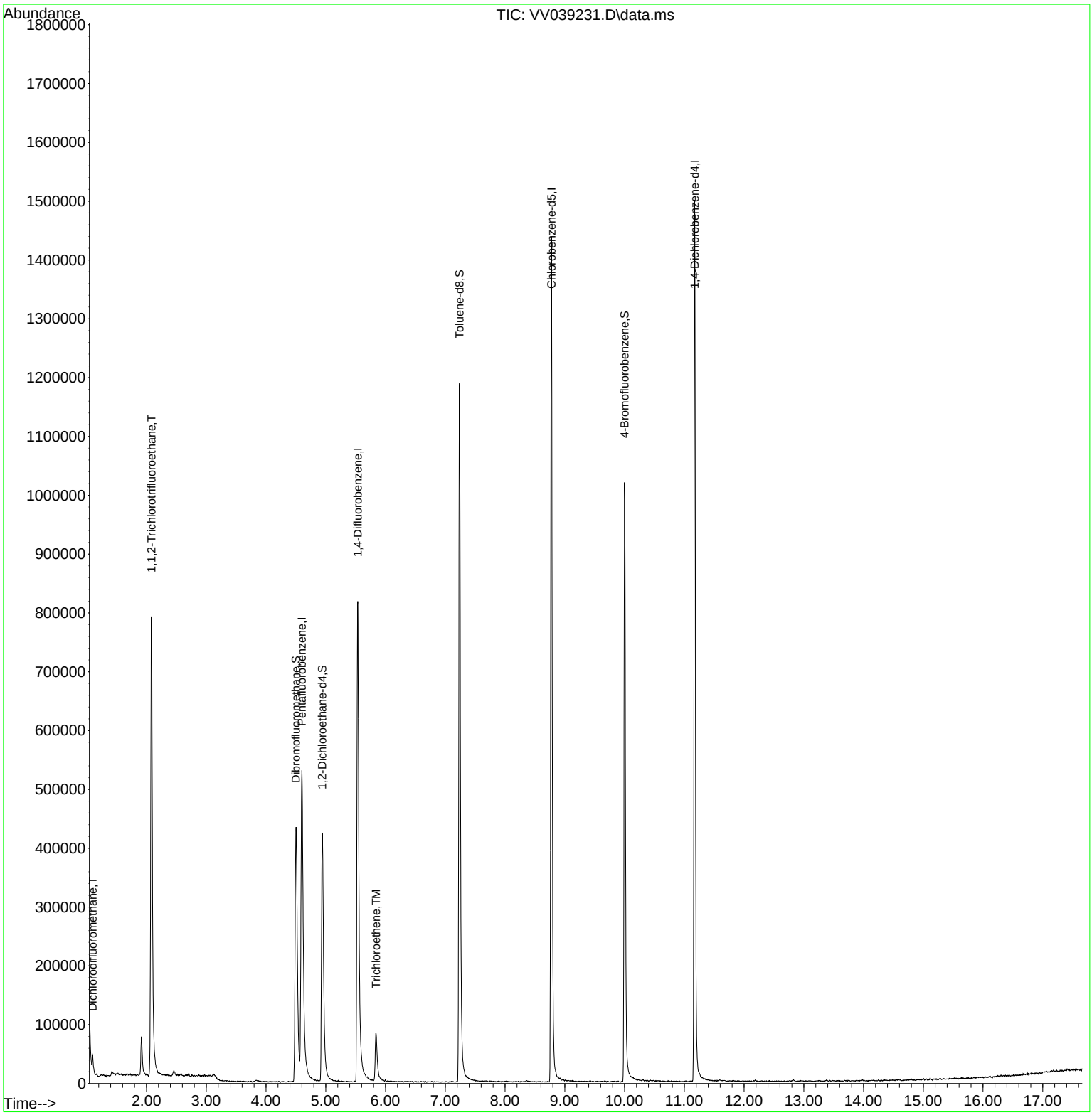
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.600 | 168 | 456320 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.535 | 114 | 803964 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.776 | 117 | 819993 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.175 | 152 | 404883 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.940 | 65 | 374781 | 56.748 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 113.500% | | | |
| 35) Dibromofluoromethane | 4.503 | 113 | 365689 | 56.580 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 113.160% | | | |
| 50) Toluene-d8 | 7.239 | 98 | 869335 | 45.797 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 91.600% | | | |
| 62) 4-Bromofluorobenzene | 10.001 | 95 | 353271 | 45.207 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 90.420% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.098 | 85 | 3260 | 0.451 | ug/l | 92 |
| 9) 1,1,2-Trichlorotrifluo... | 2.082 | 101 | 348662 | 48.752 | ug/l | 97 |
| 44) Trichloroethene | 5.841 | 130 | 36388 | 4.956 | ug/l | 100 |

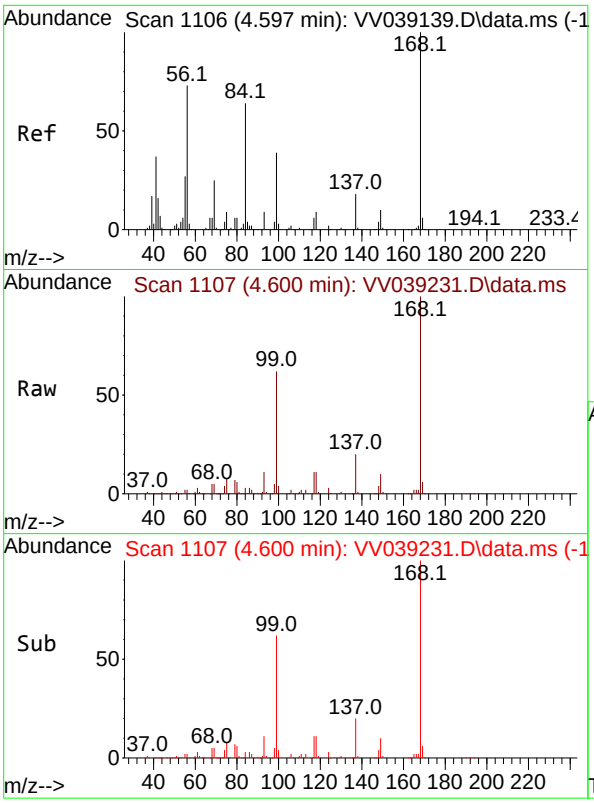
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039231.D
Acq On : 29 Sep 2025 15:01
Operator : SY/MD
Sample : Q3195-17DL 50X
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825-FDDL

Quant Time: Sep 30 01:26:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



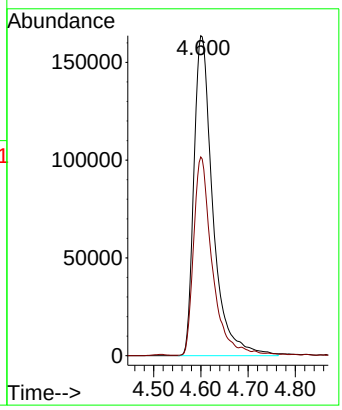


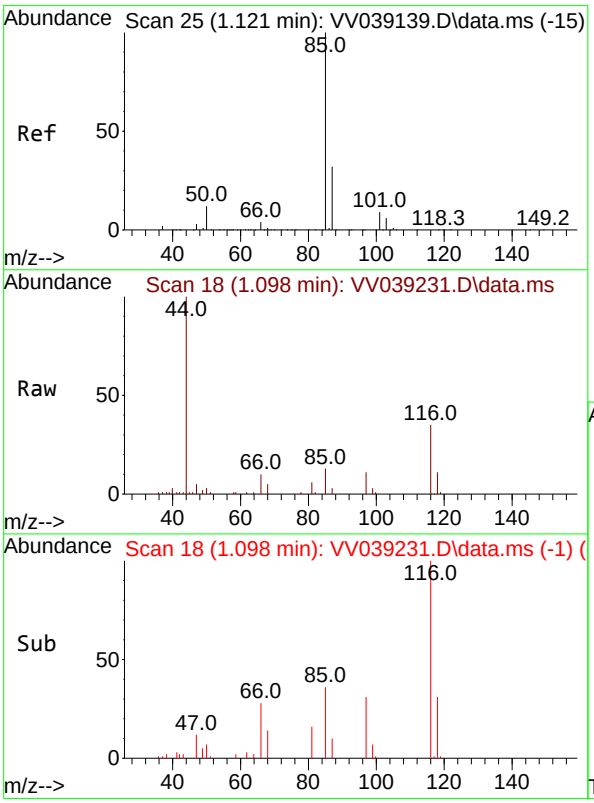

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039231.D
Acq: 29 Sep 2025 15:01

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825-FDDL

Tgt Ion:168 Resp: 456320

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 62.0 | 49.6 | 74.4 |

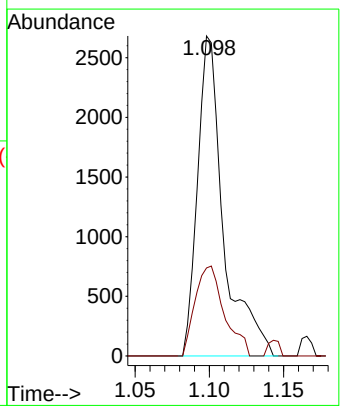


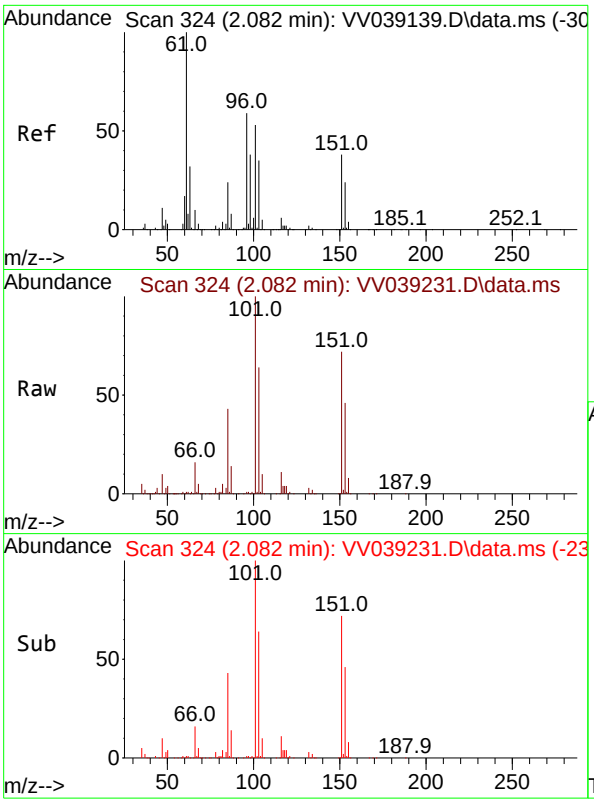




#2
Dichlorodifluoromethane
Concen: 0.451 ug/l
RT: 1.098 min Scan# 18
Delta R.T. -0.023 min
Lab File: VV039231.D
Acq: 29 Sep 2025 15:01

Tgt Ion: 85 Resp: 3260

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 27.5 | 16.0 | 47.9 |



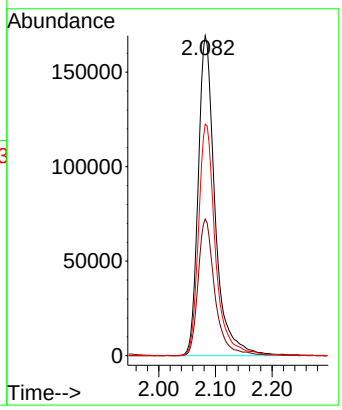


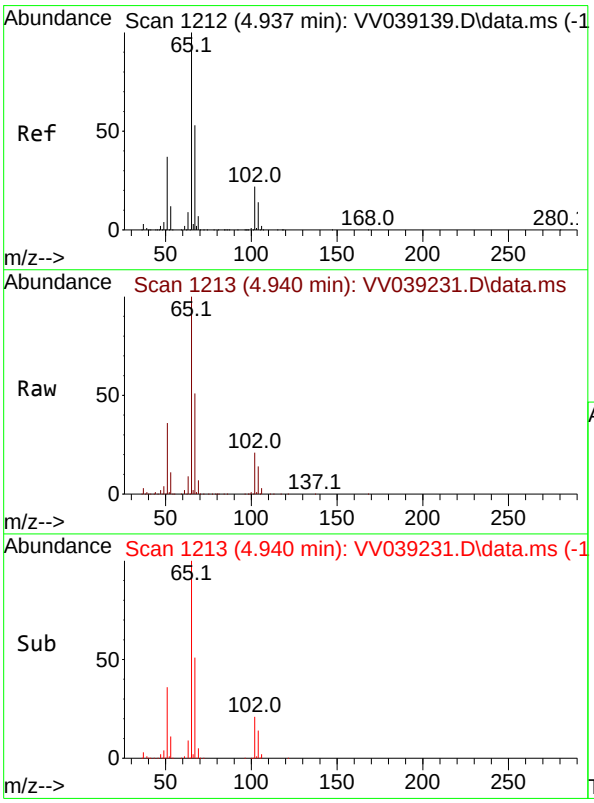

#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.752 ug/l
RT: 2.082 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039231.D
Acq: 29 Sep 2025 15:01

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825-FDDL

Tgt Ion:101 Resp: 348662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 43.0 | 36.2 | 54.2 |
| 151 | 72.8 | 56.3 | 84.5 |

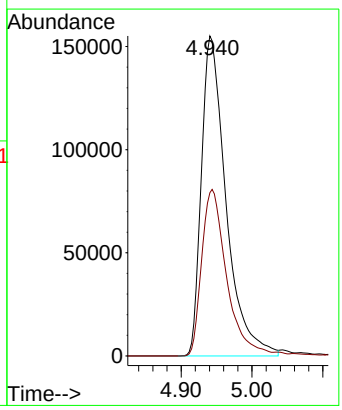


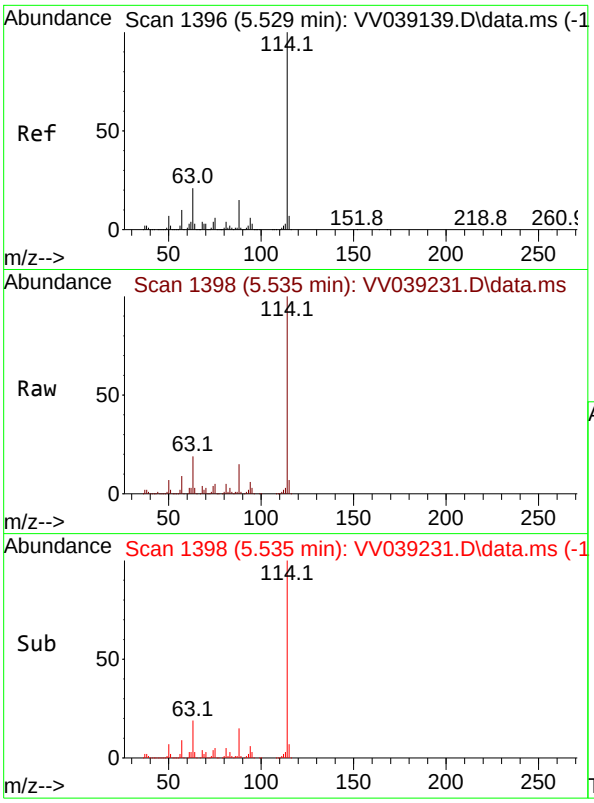




#33
1,2-Dichloroethane-d4
Concen: 56.748 ug/l
RT: 4.940 min Scan# 1213
Delta R.T. 0.003 min
Lab File: VV039231.D
Acq: 29 Sep 2025 15:01

Tgt Ion: 65 Resp: 374781

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.6 | 0.0 | 107.0 |



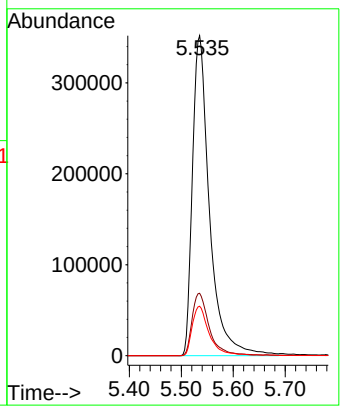


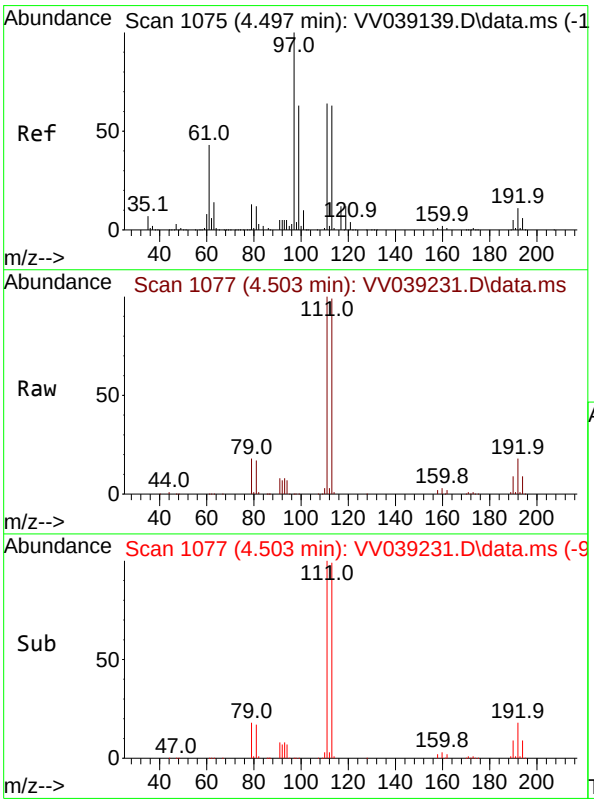

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039231.D
Acq: 29 Sep 2025 15:01

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825-FDDL

Tgt Ion:114 Resp: 803964

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.5 | 0.0 | 42.6 |
| 88 | 15.5 | 0.0 | 30.8 |

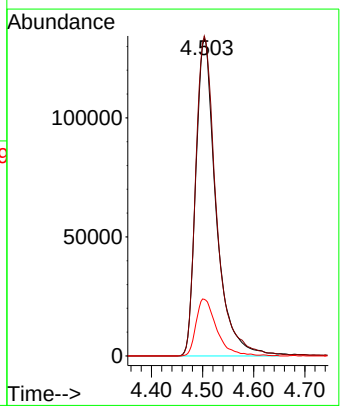


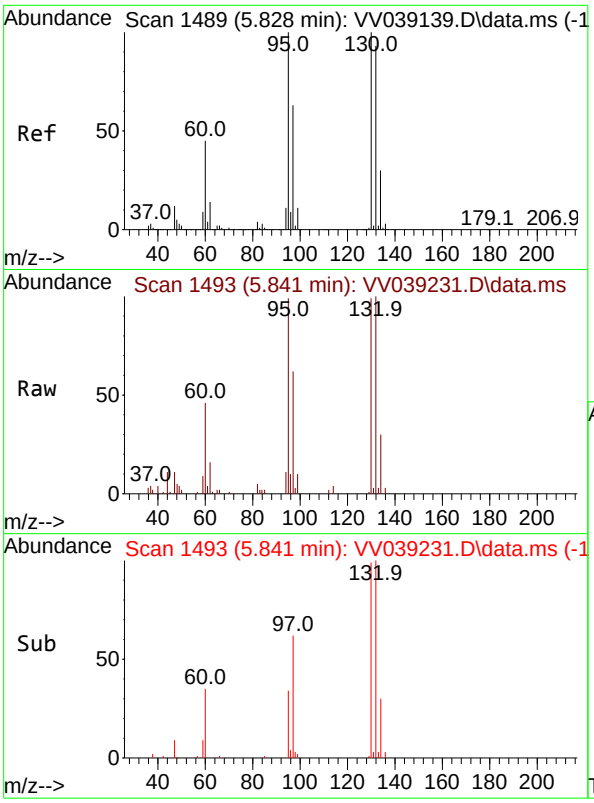




#35
Dibromofluoromethane
Concen: 56.580 ug/l
RT: 4.503 min Scan# 1077
Delta R.T. 0.006 min
Lab File: VV039231.D
Acq: 29 Sep 2025 15:01

Tgt Ion:113 Resp: 365689

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.3 | 82.4 | 123.6 |
| 192 | 18.3 | 13.8 | 20.8 |



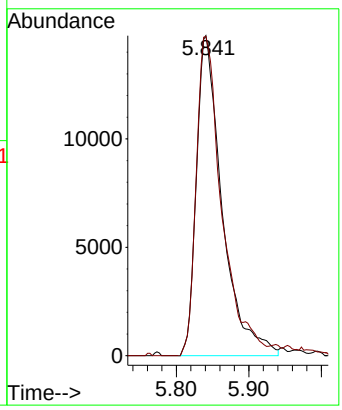


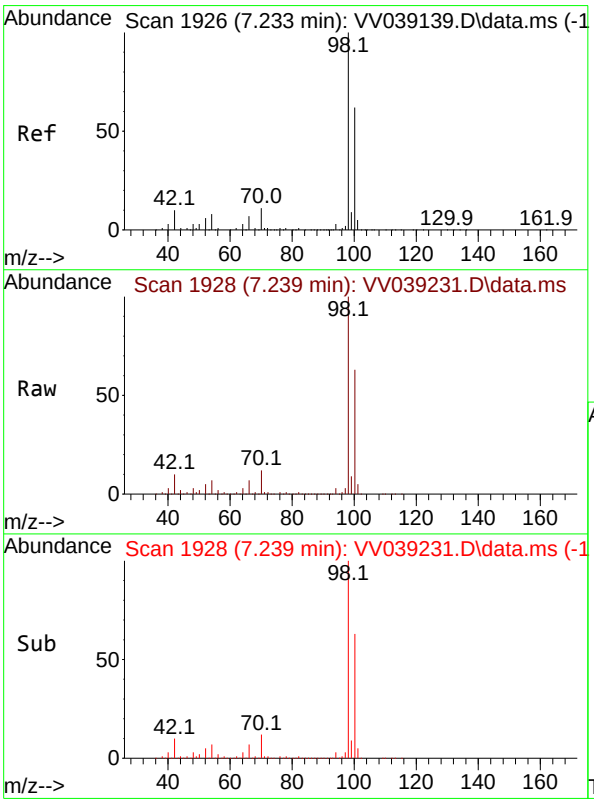

#44
Trichloroethene
Concen: 4.956 ug/l
RT: 5.841 min Scan# 14
Delta R.T. 0.013 min
Lab File: VV039231.D
Acq: 29 Sep 2025 15:01

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825-FDDL

Tgt Ion:130 Resp: 36388

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 99.8 | 0.0 | 199.2 |

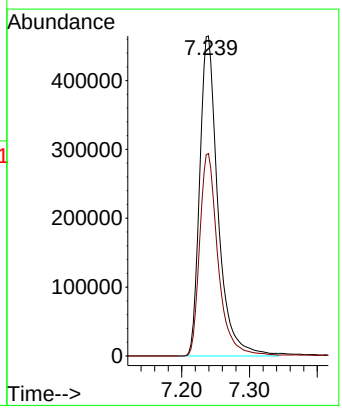


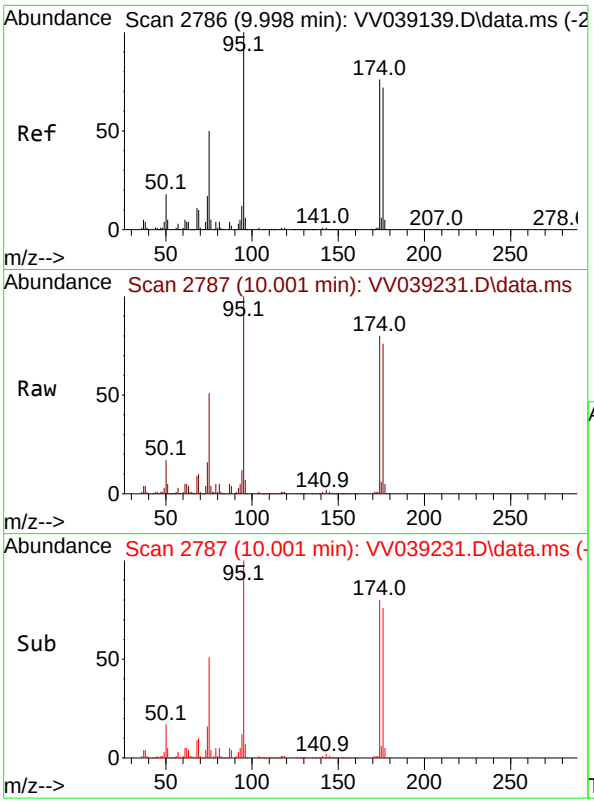




#50
Toluene-d8
Concen: 45.797 ug/l
RT: 7.239 min Scan# 1928
Delta R.T. 0.006 min
Lab File: VV039231.D
Acq: 29 Sep 2025 15:01

Tgt Ion: 98 Resp: 869335

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.7 | 52.2 | 78.2 |



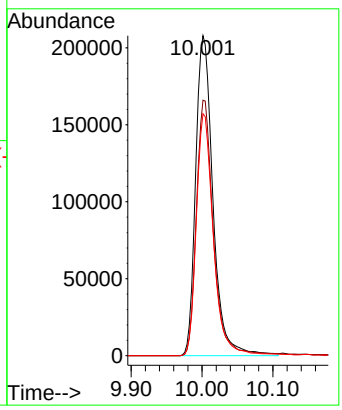


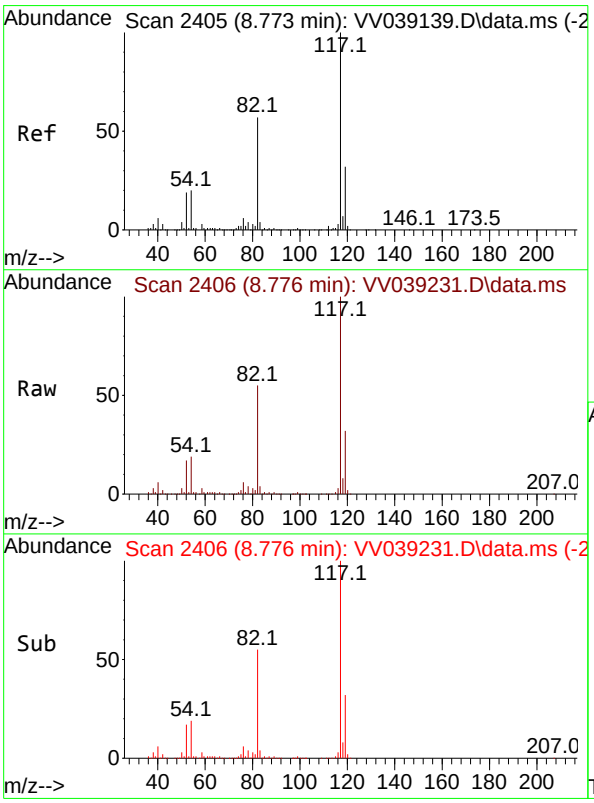

#62
4-Bromofluorobenzene
Concen: 45.207 ug/l
RT: 10.001 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039231.D
Acq: 29 Sep 2025 15:01

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825-FDDL

Tgt Ion: 95 Resp: 353271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 78.9 | 0.0 | 150.4 |
| 176 | 74.8 | 0.0 | 144.2 |

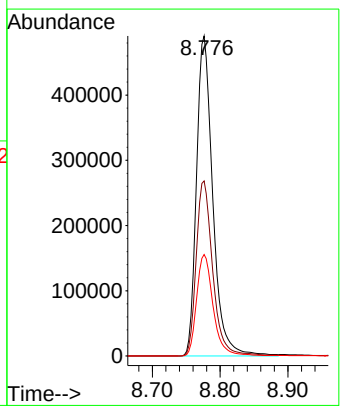


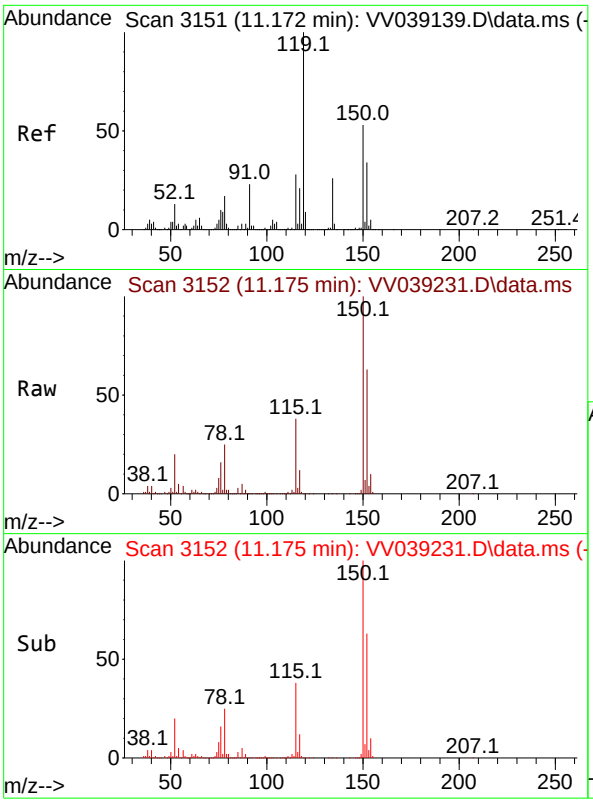




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039231.D
Acq: 29 Sep 2025 15:01

Tgt Ion:117 Resp: 819993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.7 | 45.4 | 68.2 |
| 119 | 31.7 | 25.6 | 38.4 |



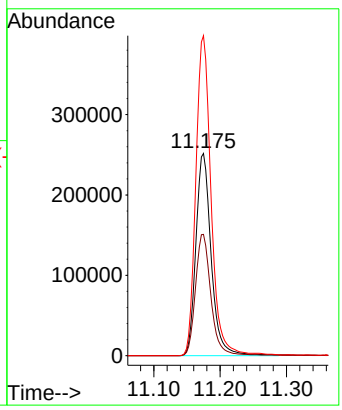



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039231.D
Acq: 29 Sep 2025 15:01

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-31D-091825-FDDL

Tgt Ion:152 Resp: 404883

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 60.7 | 44.8 | 134.4 |
| 150 | 156.6 | 0.0 | 353.8 |



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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/17/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-32S-091725 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-18 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039227.D | 1 | 09/29/25 13:31 | VV092925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.33 | U | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.25 | U | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 1.50 | U | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 0.27 | U | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 1.50 | U | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.25 | U | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.16 | U | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.52 | J | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | UQ | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.14 | UQ | 0.14 | 1.00 | ug/L |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/17/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-32S-091725 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-18 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039227.D | 1 | 09/29/25 13:31 | VV092925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.15 | UQ | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.80 | J | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | UQ | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | UQ | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.53 | U | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 54.0 | | 74 - 125 | 108% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 54.6 | | 75 - 124 | 109% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 45.7 | | 86 - 113 | 91% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 45.8 | | 77 - 121 | 92% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 475000 | 4.6 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 811000 | 5.535 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 825000 | 8.776 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 413000 | 11.175 | | | |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/17/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-32S-091725 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-18 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039227.D | 1 | 09/29/25 13:31 | VV092925 |

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039227.D
Acq On : 29 Sep 2025 13:31
Operator : SY/MD
Sample : Q3195-18
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 30 01:25:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-32S-091725

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.600 | 168 | 474559 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.535 | 114 | 811077 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.776 | 117 | 824686 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.175 | 152 | 412882 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.944 | 65 | 370844 | 53.994 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 107.980% | | | |
| 35) Dibromofluoromethane | 4.503 | 113 | 356197 | 54.628 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 109.260% | | | |
| 50) Toluene-d8 | 7.239 | 98 | 875398 | 45.711 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 91.420% | | | |
| 62) 4-Bromofluorobenzene | 10.001 | 95 | 361112 | 45.805 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 91.600% | | | |
| Target Compounds | | | | | | Qvalue |
| 44) Trichloroethene | 5.860 | 130 | 3859m | 0.521 | ug/l | |
| 64) Tetrachloroethene | 7.905 | 164 | 5510 | 0.798 | ug/l # | 86 |

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

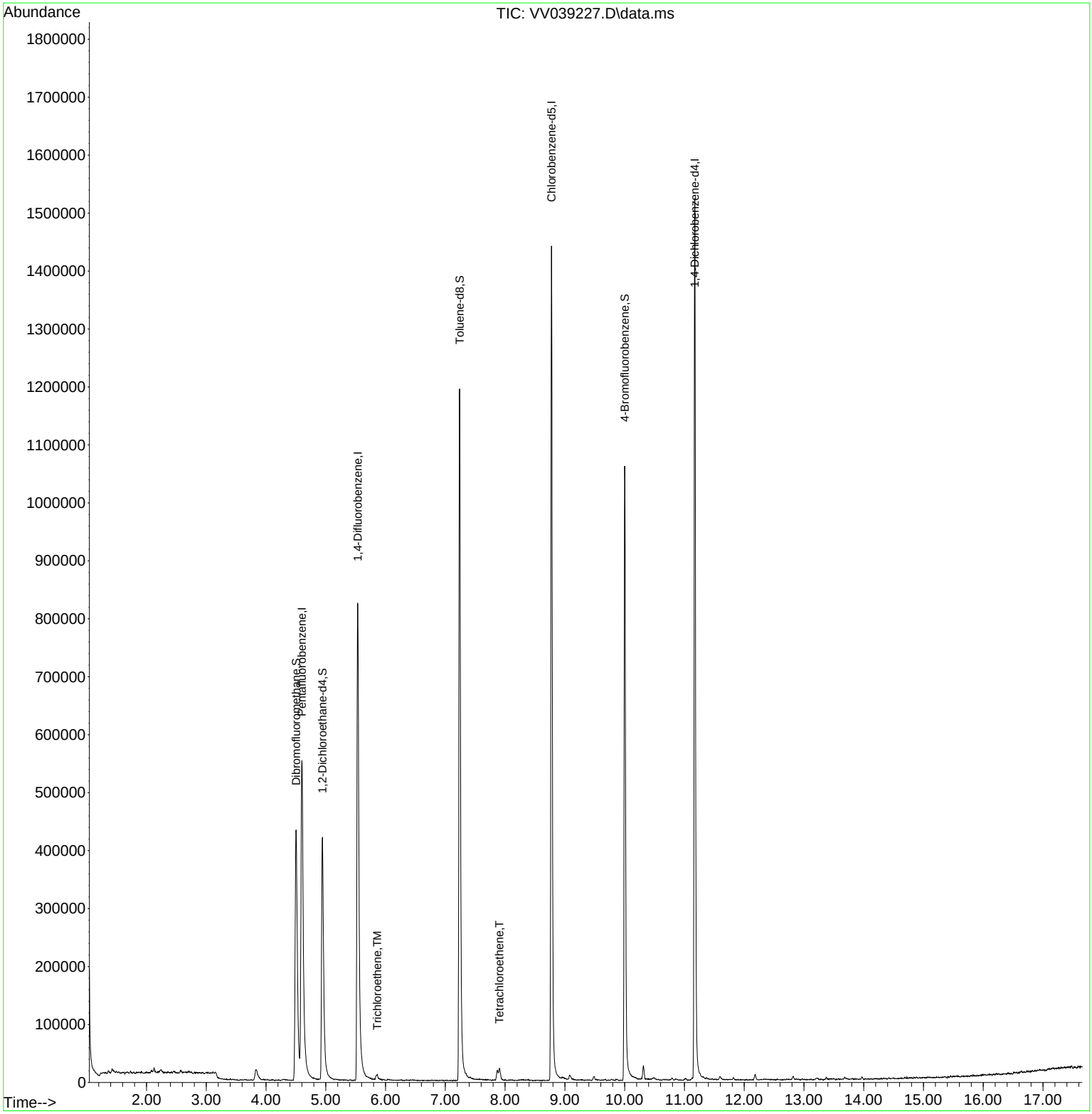
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039227.D
Acq On : 29 Sep 2025 13:31
Operator : SY/MD
Sample : Q3195-18
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 8 Sample Multiplier: 1

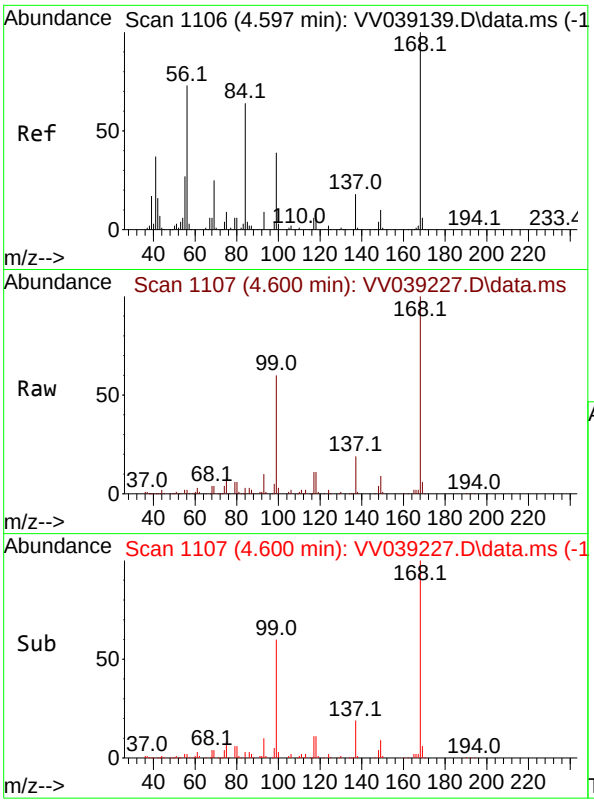
Quant Time: Sep 30 01:25:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-32S-091725

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

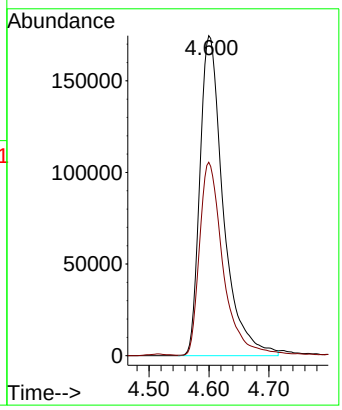





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039227.D
Acq: 29 Sep 2025 13:31

Tgt Ion:168 Resp: 47455

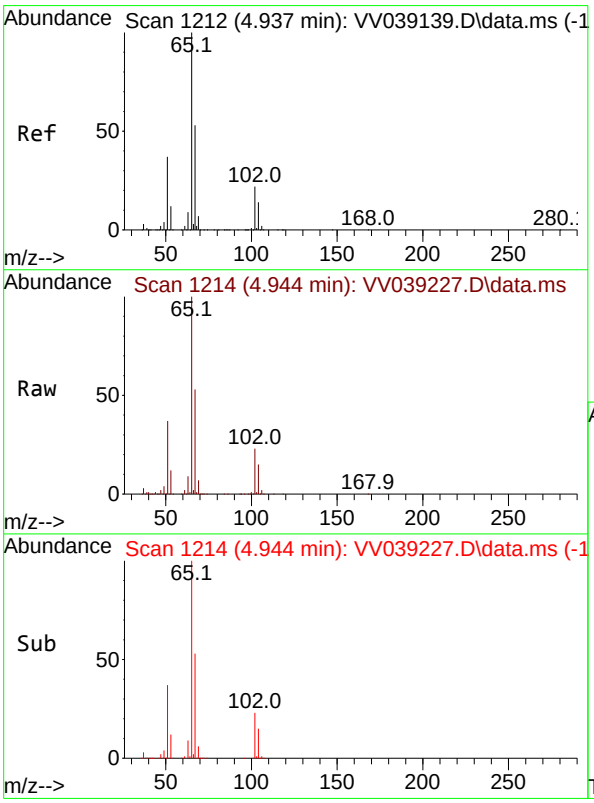
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 60.3 | 49.6 | 74.4 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-32S-091725

**Manual Integrations**
**APPROVED**

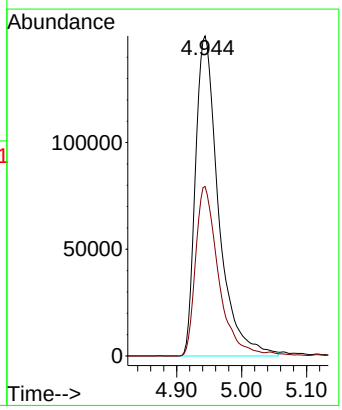
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

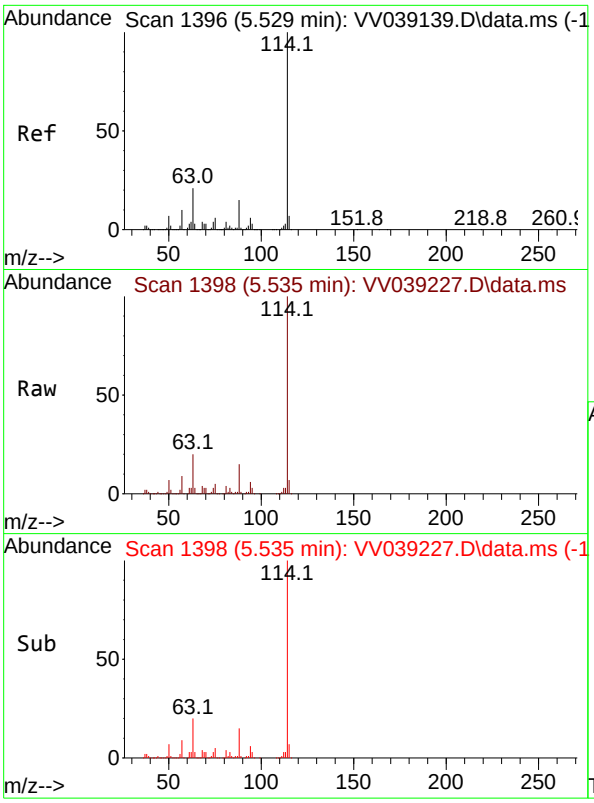



#33
1,2-Dichloroethane-d4
Concen: 53.994 ug/l
RT: 4.944 min Scan# 1214
Delta R.T. 0.006 min
Lab File: VV039227.D
Acq: 29 Sep 2025 13:31

Tgt Ion: 65 Resp: 370844

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.3 | 0.0 | 107.0 |

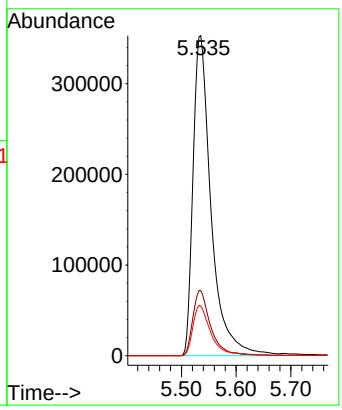





#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039227.D
Acq: 29 Sep 2025 13:31

Tgt Ion:114 Resp: 81107

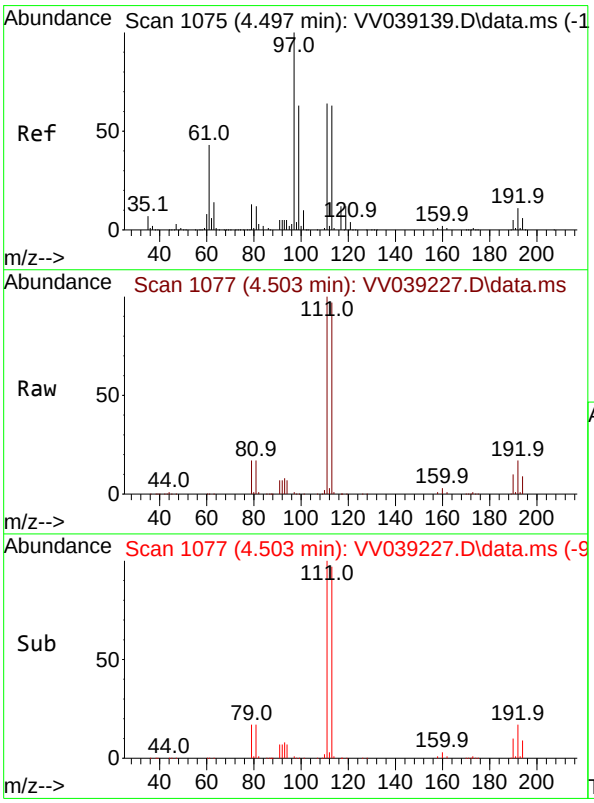
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.3 | 0.0 | 42.6 |
| 88 | 15.5 | 0.0 | 30.8 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-32S-091725

**Manual Integrations**
**APPROVED**

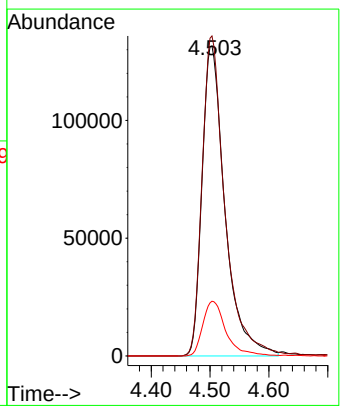
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

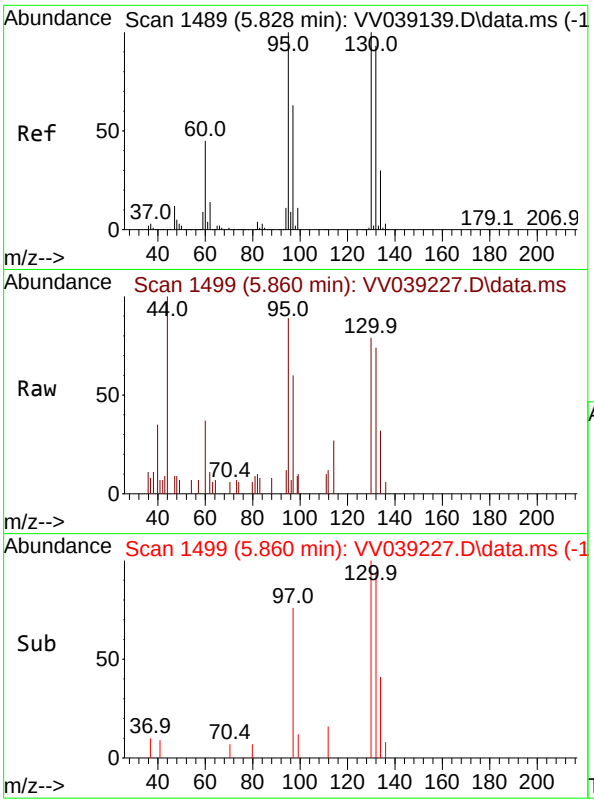



#35
Dibromofluoromethane
Concen: 54.628 ug/l
RT: 4.503 min Scan# 1077
Delta R.T. 0.006 min
Lab File: VV039227.D
Acq: 29 Sep 2025 13:31

Tgt Ion:113 Resp: 356197

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.4 | 82.4 | 123.6 |
| 192 | 17.8 | 13.8 | 20.8 |

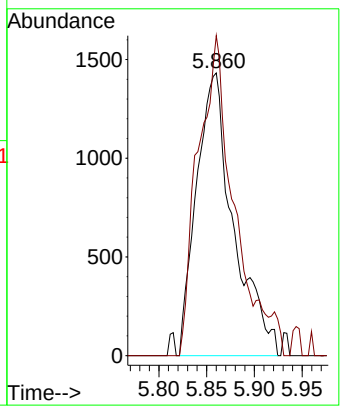





#44
Trichloroethene
Concen: 0.521 ug/l m
RT: 5.860 min Scan# 14
Delta R.T. 0.032 min
Lab File: VV039227.D
Acq: 29 Sep 2025 13:31

Tgt Ion:130 Resp: 385

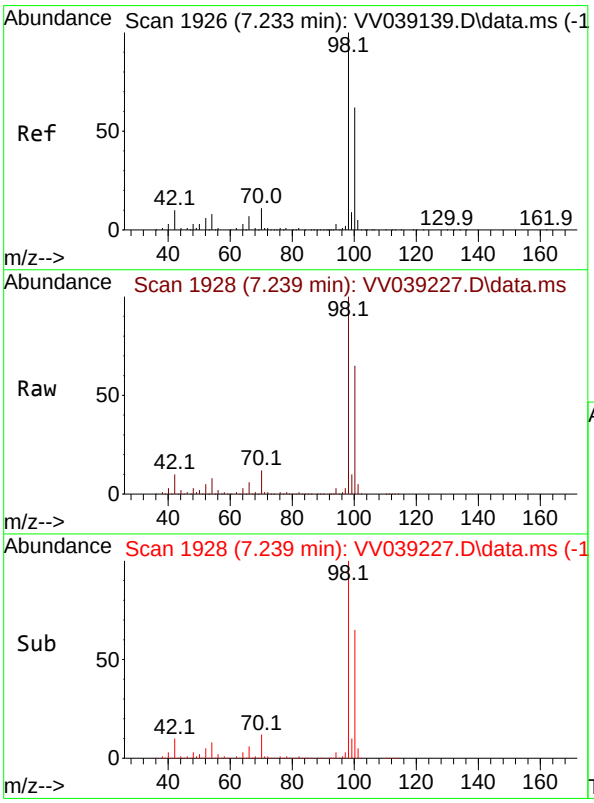
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 113.2 | 0.0 | 199.2 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-32S-091725

**Manual Integrations**
**APPROVED**

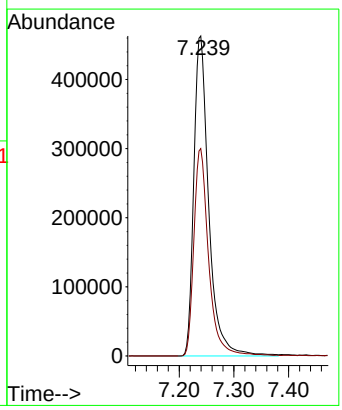
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

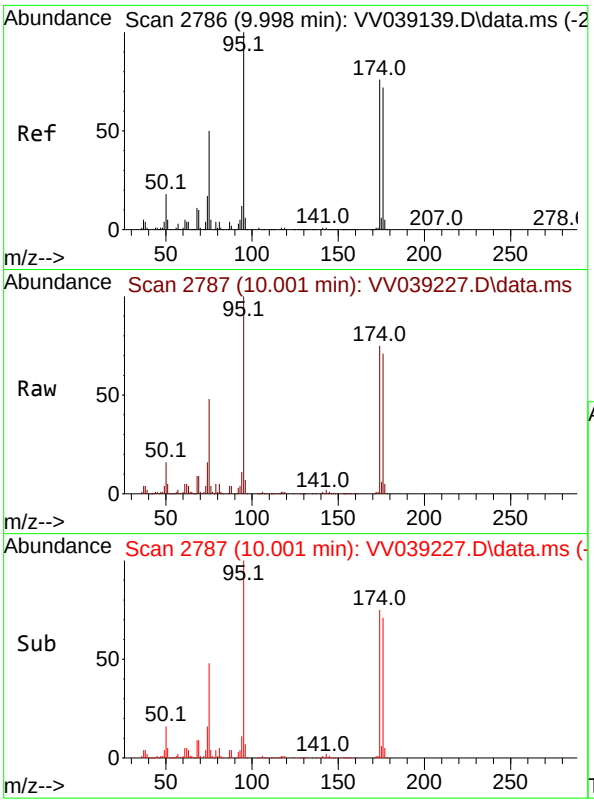



#50
Toluene-d8
Concen: 45.711 ug/l
RT: 7.239 min Scan# 1928
Delta R.T. 0.006 min
Lab File: VV039227.D
Acq: 29 Sep 2025 13:31

Tgt Ion: 98 Resp: 875398

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.3 | 52.2 | 78.2 |

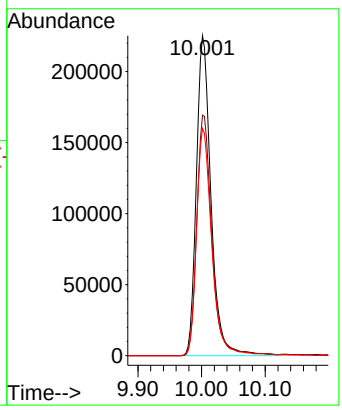





#62
4-Bromofluorobenzene
Concen: 45.805 ug/l
RT: 10.001 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039227.D
Acq: 29 Sep 2025 13:31

Tgt Ion: 95 Resp: 36111

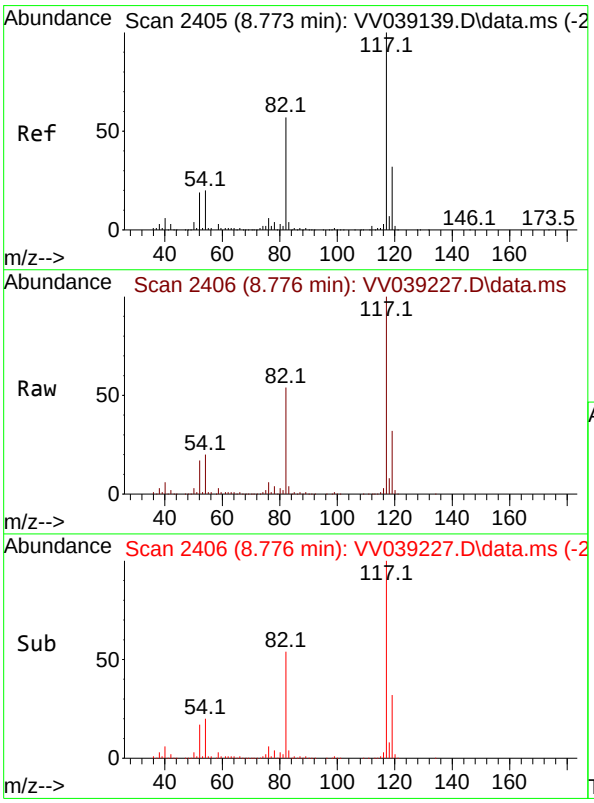
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 78.0 | 0.0 | 150.4 |
| 176 | 72.9 | 0.0 | 144.2 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-32S-091725

**Manual Integrations**
**APPROVED**

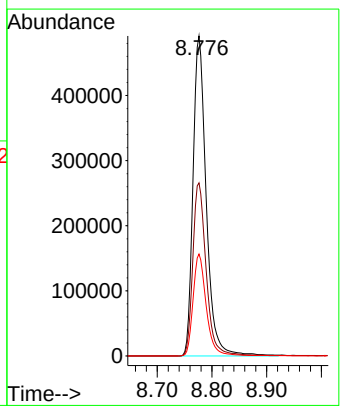
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025

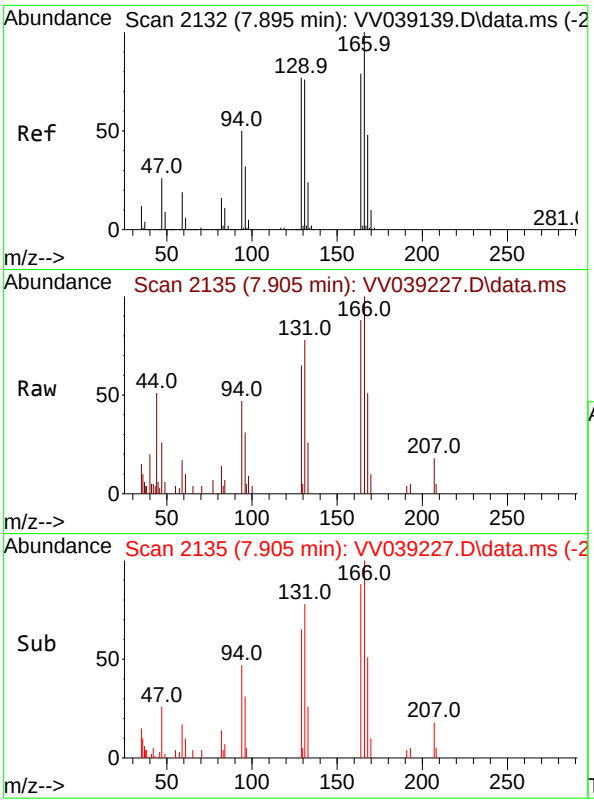



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039227.D
Acq: 29 Sep 2025 13:31

Tgt Ion:117 Resp: 824686

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.1 | 45.4 | 68.2 |
| 119 | 31.8 | 25.6 | 38.4 |

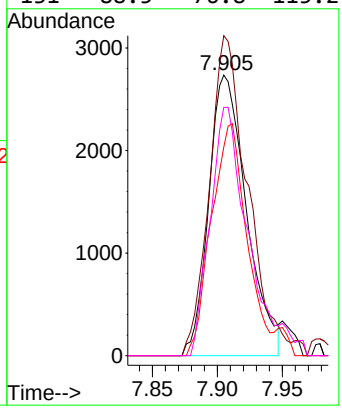





#64
Tetrachloroethene
Concen: 0.798 ug/l
RT: 7.905 min Scan# 2
Delta R.T. 0.010 min
Lab File: VV039227.D
Acq: 29 Sep 2025 13:31

Tgt Ion:164 Resp: 551

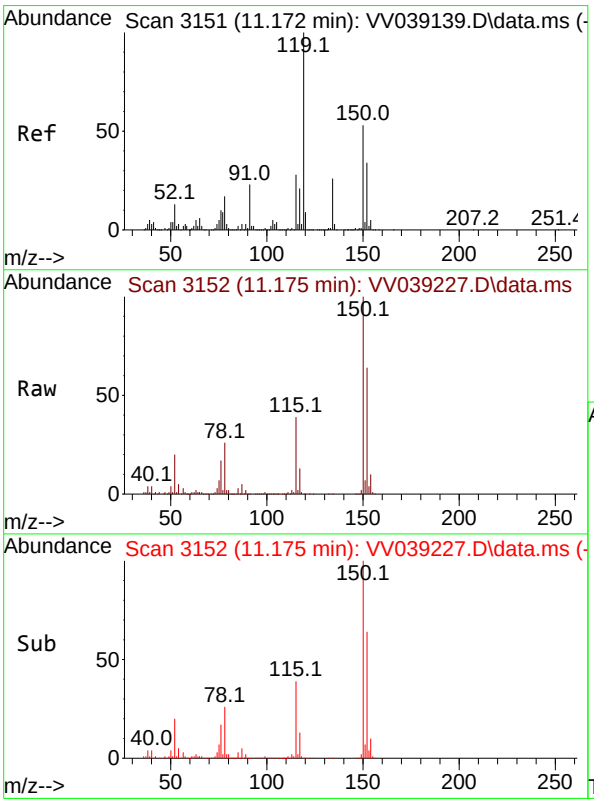
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 114.0 | 101.6 | 152.4 |
| 129 | 74.3 | 78.5 | 117.7# |
| 131 | 88.5 | 76.8 | 115.2 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-32S-091725

**Manual Integrations**
**APPROVED**

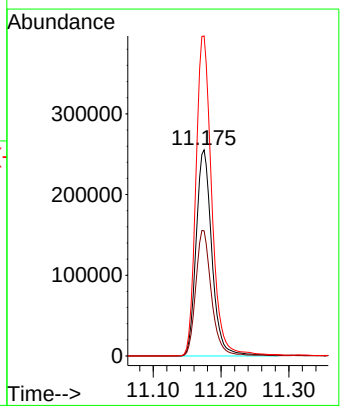
Reviewed By :Mahesh Dadoda 10/03/2025
Supervised By :Semsettin Yesilyurt 10/03/2025




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039227.D
Acq: 29 Sep 2025 13:31

Tgt Ion:152 Resp: 412882

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 60.6 | 44.8 | 134.4 |
| 150 | 156.5 | 0.0 | 353.8 |



Sample Results: **VV039227.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039227.D
Acq On : 29 Sep 2025 13:31
Operator : SY/MD
Sample : Q3195-18
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-32S-091725

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039227.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 3.828 | 851 | 867 | 869 | rBV2 | 18560 | 27585 | 1.12% | 0.188% |
| 2 | 4.503 | 1062 | 1077 | 1095 | rBV2 | 432276 | 1127253 | 45.81% | 7.675% |
| 3 | 4.600 | 1095 | 1107 | 1157 | rVB | 548438 | 1538324 | 62.51% | 10.474% |
| 4 | 4.944 | 1202 | 1214 | 1255 | rBV | 417726 | 1031067 | 41.90% | 7.021% |
| 5 | 5.532 | 1383 | 1397 | 1432 | rBV | 823894 | 1918513 | 77.96% | 13.063% |
| 6 | 7.239 | 1916 | 1928 | 1959 | rBV | 1193351 | 2271263 | 92.29% | 15.465% |
| 7 | 7.870 | 2114 | 2124 | 2129 | rBV3 | 17444 | 31377 | 1.28% | 0.214% |
| 8 | 7.905 | 2131 | 2135 | 2147 | rVB5 | 19588 | 33901 | 1.38% | 0.231% |
| 9 | 8.776 | 2394 | 2406 | 2441 | rBV | 1439377 | 2452173 | 99.64% | 16.697% |
| 10 | 10.001 | 2776 | 2787 | 2816 | rBV | 1060210 | 1756499 | 71.38% | 11.960% |
| 11 | 10.313 | 2876 | 2884 | 2893 | rVB4 | 22822 | 37513 | 1.52% | 0.255% |
| 12 | 11.172 | 3141 | 3151 | 3177 | rBV | 1517683 | 2460930 | 100.00% | 16.757% |

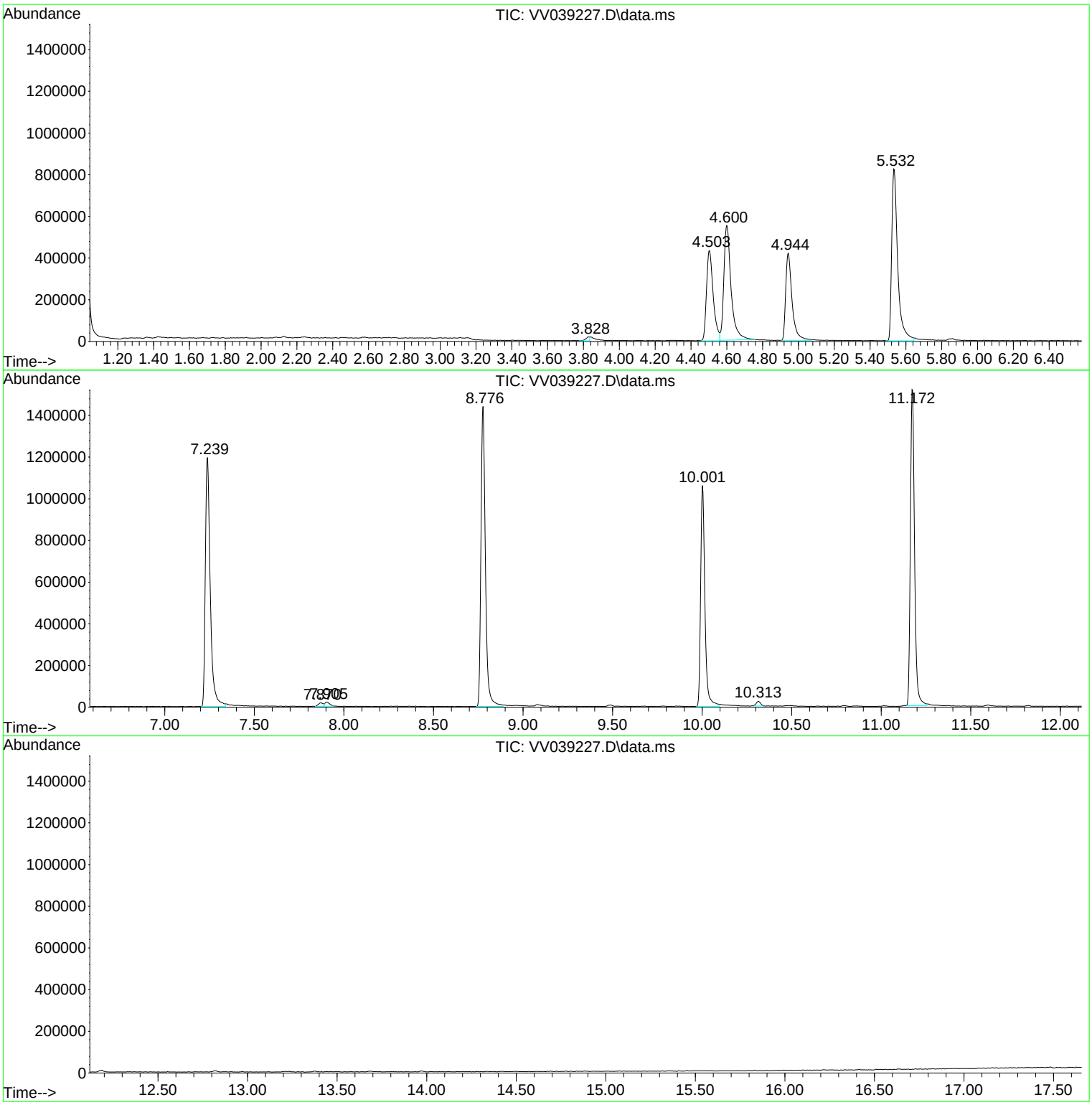
Sum of corrected areas: 14686398

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039227.D
Acq On : 29 Sep 2025 13:31
Operator : SY/MD
Sample : Q3195-18
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-32S-091725

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039227.D
Acq On : 29 Sep 2025 13:31
Operator : SY/MD
Sample : Q3195-18
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-32S-091725

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039227.D
Acq On : 29 Sep 2025 13:31
Operator : SY/MD
Sample : Q3195-18
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-32S-091725

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/17/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-33D-091725 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-19 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039228.D | 1 | 09/29/25 13:53 | VV092925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 7.90 | | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.33 | U | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 2.10 | | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 1.50 | U | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 0.27 | U | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 1.50 | U | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 1.30 | | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.25 | U | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.16 | U | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 5.50 | | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | UQ | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.14 | UQ | 0.14 | 1.00 | ug/L |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/17/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-33D-091725 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-19 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039228.D | 1 | 09/29/25 13:53 | VV092925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.15 | UQ | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 1.40 | | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | UQ | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | UQ | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.53 | U | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 55.5 | | 74 - 125 | 111% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 54.2 | | 75 - 124 | 108% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 45.4 | | 86 - 113 | 91% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 44.9 | | 77 - 121 | 90% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 463000 | 4.6 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 797000 | 5.535 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 801000 | 8.776 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 399000 | 11.175 | | | |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/17/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-33D-091725 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-19 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039228.D | 1 | 09/29/25 13:53 | VV092925 |

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039228.D
Acq On : 29 Sep 2025 13:53
Operator : SY/MD
Sample : Q3195-19
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725

Quant Time: Sep 30 01:25:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

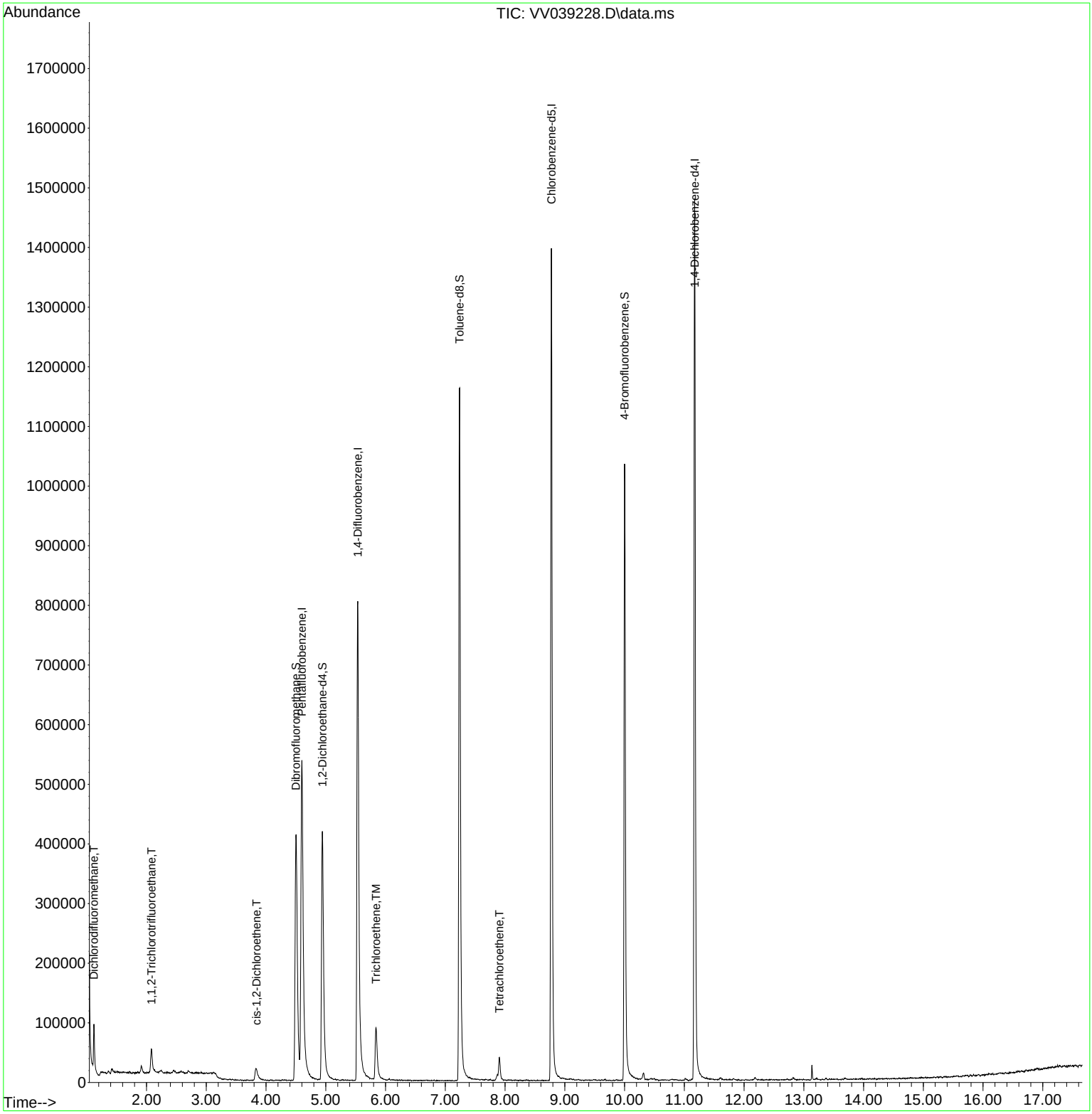
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.600 | 168 | 463190 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.535 | 114 | 796521 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.776 | 117 | 800959 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.175 | 152 | 398638 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.944 | 65 | 371910 | 55.478 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 110.960% | | | |
| 35) Dibromofluoromethane | 4.503 | 113 | 347020 | 54.193 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 108.380% | | | |
| 50) Toluene-d8 | 7.240 | 98 | 853418 | 45.378 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 90.760% | | | |
| 62) 4-Bromofluorobenzene | 10.001 | 95 | 347720 | 44.912 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 89.820% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.121 | 85 | 57633 | 7.860 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 2.082 | 101 | 15154 | 2.088 | ug/l | 94 |
| 27) cis-1,2-Dichloroethene | 3.841 | 96 | 11015 | 1.343 | ug/l | 77 |
| 44) Trichloroethene | 5.841 | 130 | 39693 | 5.456 | ug/l | 96 |
| 64) Tetrachloroethene | 7.905 | 164 | 9414 | 1.403 | ug/l | 96 |

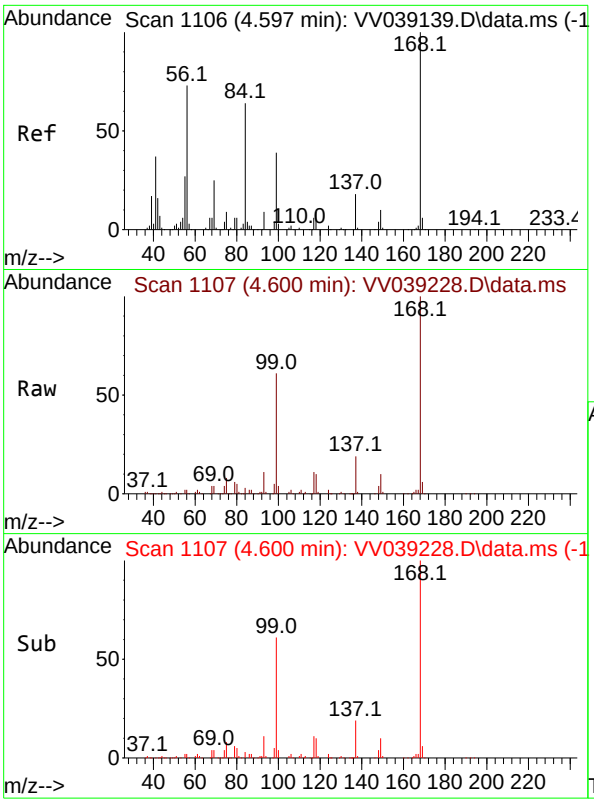
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039228.D
Acq On : 29 Sep 2025 13:53
Operator : SY/MD
Sample : Q3195-19
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725

Quant Time: Sep 30 01:25:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



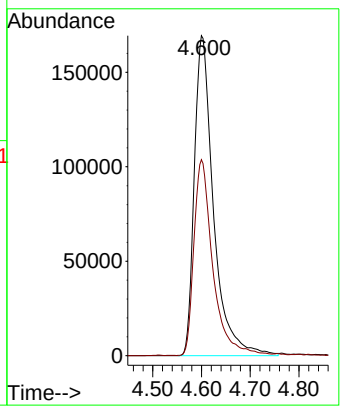


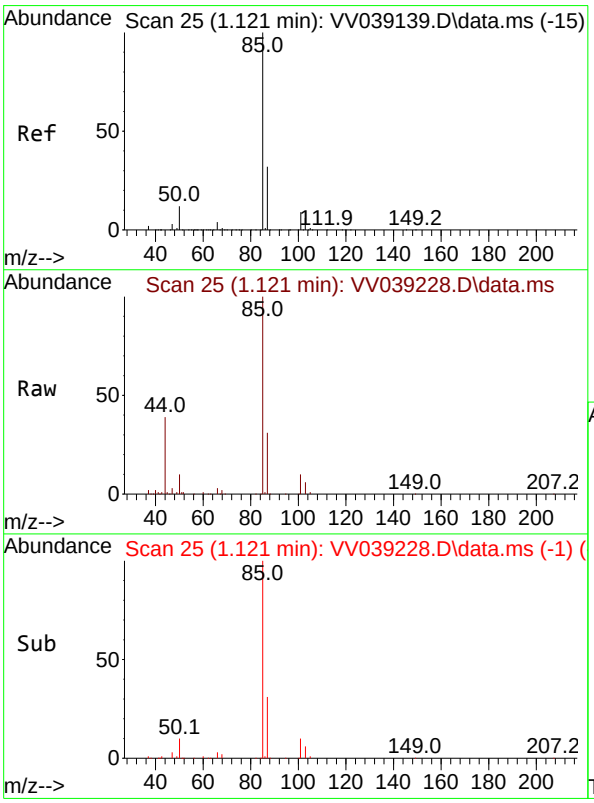

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725

Tgt Ion:168 Resp: 463190

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 61.2 | 49.6 | 74.4 |

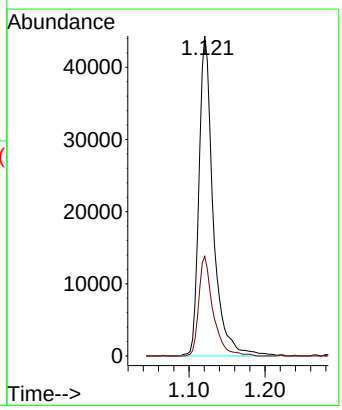


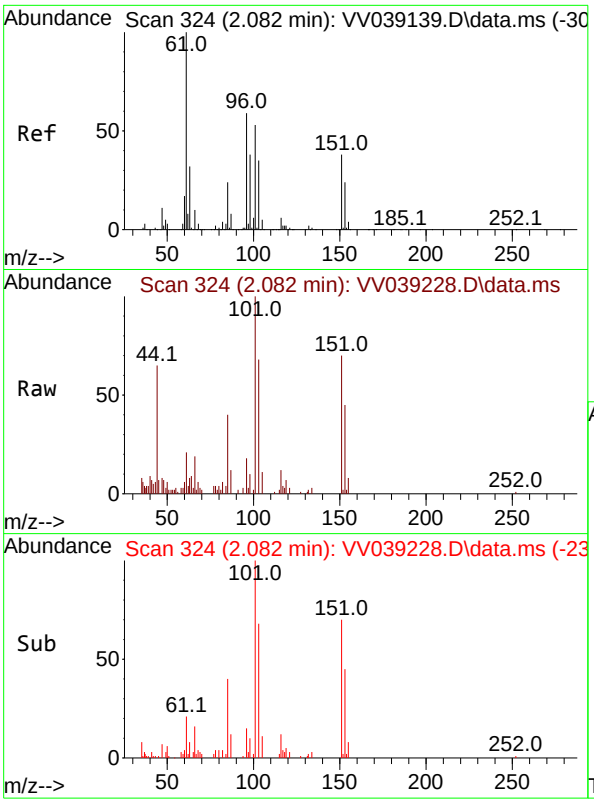




#2
Dichlorodifluoromethane
Concen: 7.860 ug/l
RT: 1.121 min Scan# 25
Delta R.T. 0.000 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

Tgt Ion: 85 Resp: 57633

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.1 | 16.0 | 47.9 |



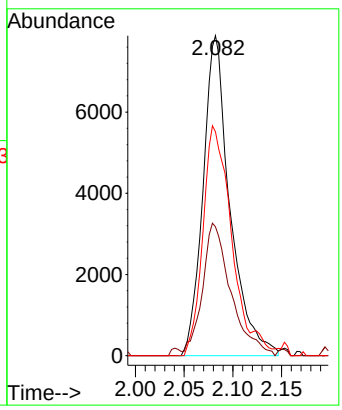


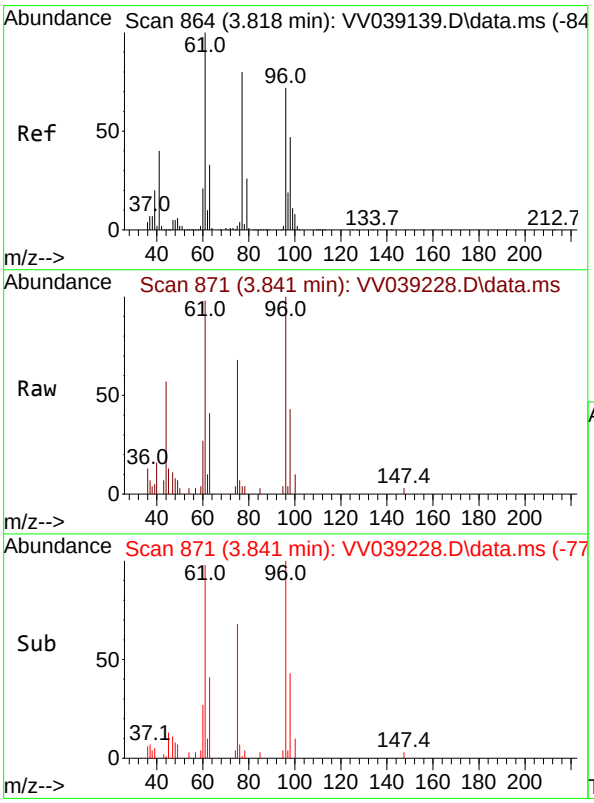

#9
1,1,2-Trichlorotrifluoroethane
Concen: 2.088 ug/l
RT: 2.082 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725

Tgt Ion:101 Resp: 15154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 43.7 | 36.2 | 54.2 |
| 151 | 77.1 | 56.3 | 84.5 |

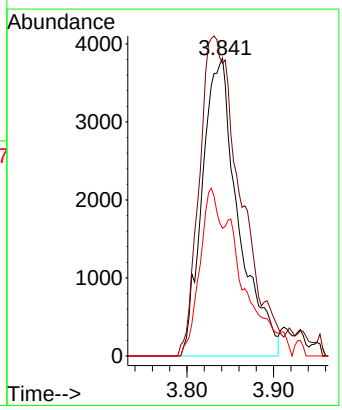


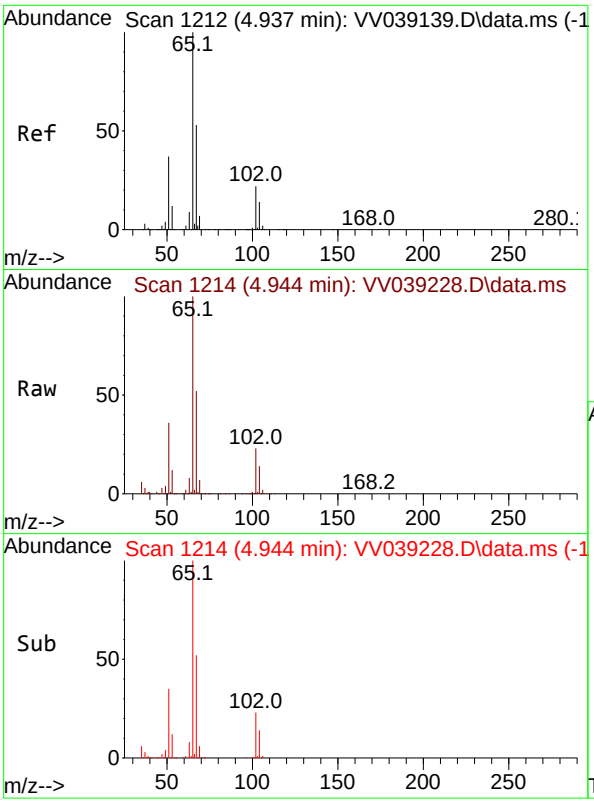




#27
cis-1,2-Dichloroethene
Concen: 1.343 ug/l
RT: 3.841 min Scan# 871
Delta R.T. 0.023 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

Tgt Ion: 96 Resp: 11015

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 123.6 | 0.0 | 286.4 |
| 98 | 32.6 | 0.0 | 126.6 |



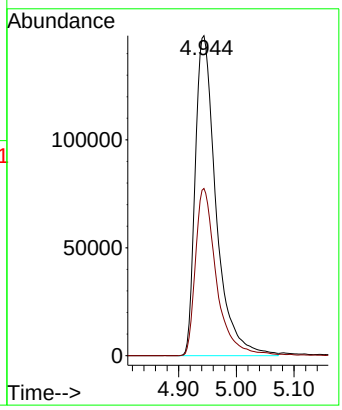


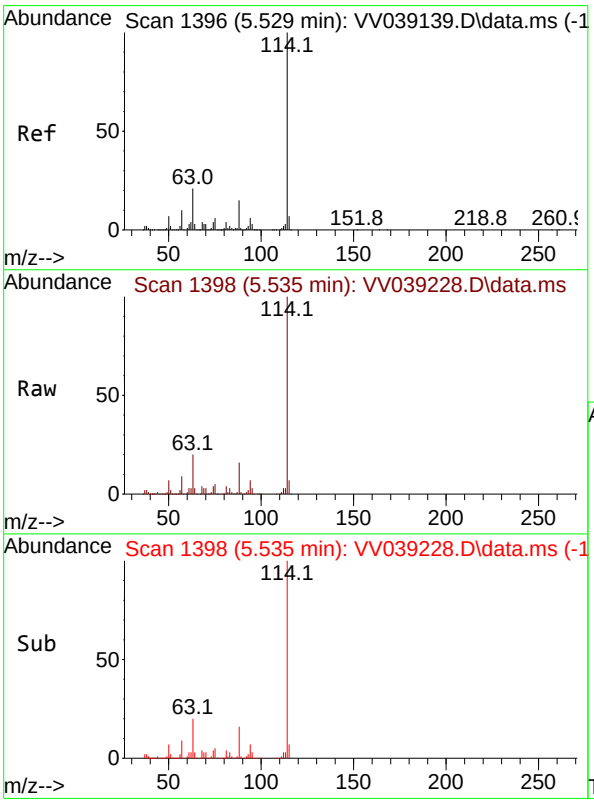

#33
1,2-Dichloroethane-d4
Concen: 55.478 ug/l
RT: 4.944 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725

Tgt Ion: 65 Resp: 371910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.5 | 0.0 | 107.0 |

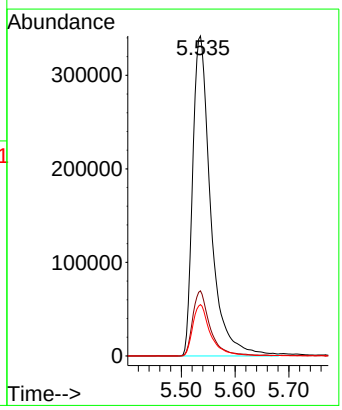


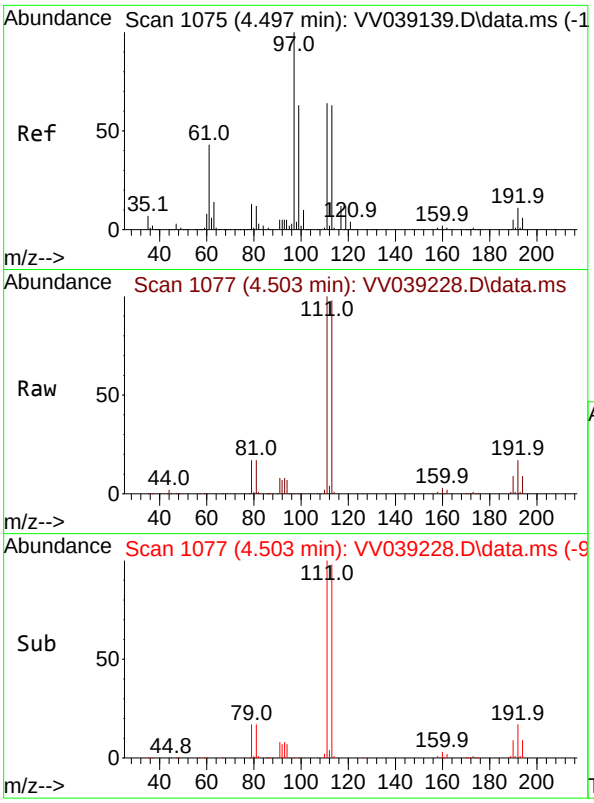




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

Tgt Ion:114 Resp: 796521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.3 | 0.0 | 42.6 |
| 88 | 16.1 | 0.0 | 30.8 |



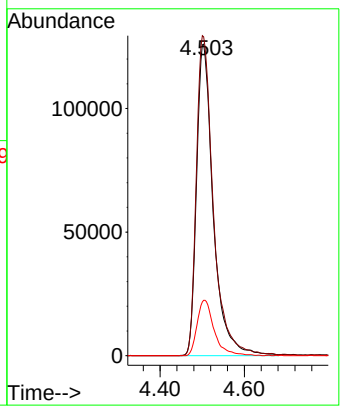


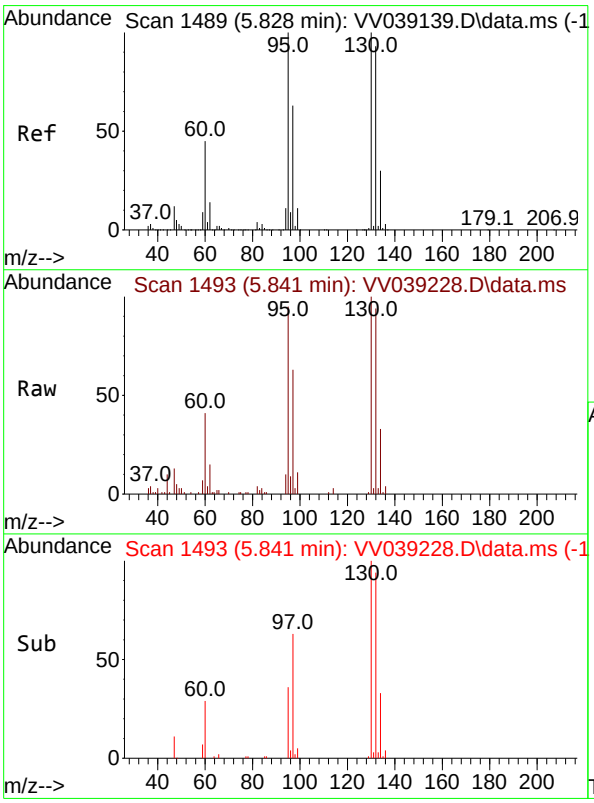

#35
Dibromofluoromethane
Concen: 54.193 ug/l
RT: 4.503 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725

Tgt Ion:113 Resp: 347020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 104.0 | 82.4 | 123.6 |
| 192 | 18.2 | 13.8 | 20.8 |

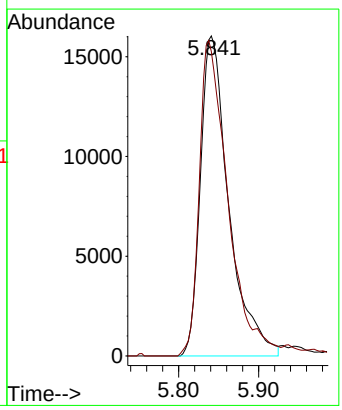


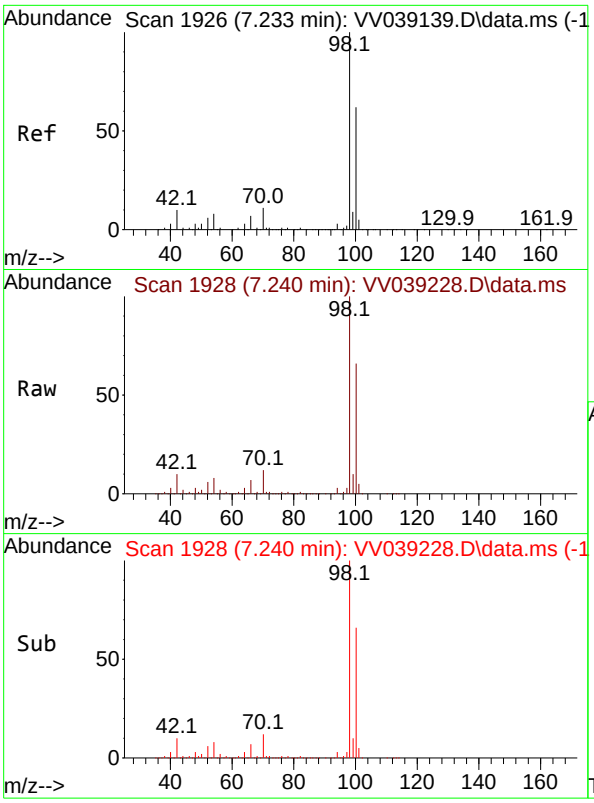




#44
Trichloroethene
Concen: 5.456 ug/l
RT: 5.841 min Scan# 1493
Delta R.T. 0.013 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

Tgt Ion:130 Resp: 39693

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 95.1 | 0.0 | 199.2 |



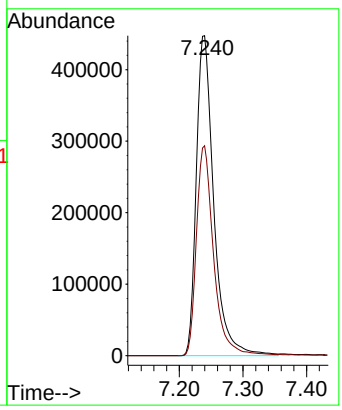


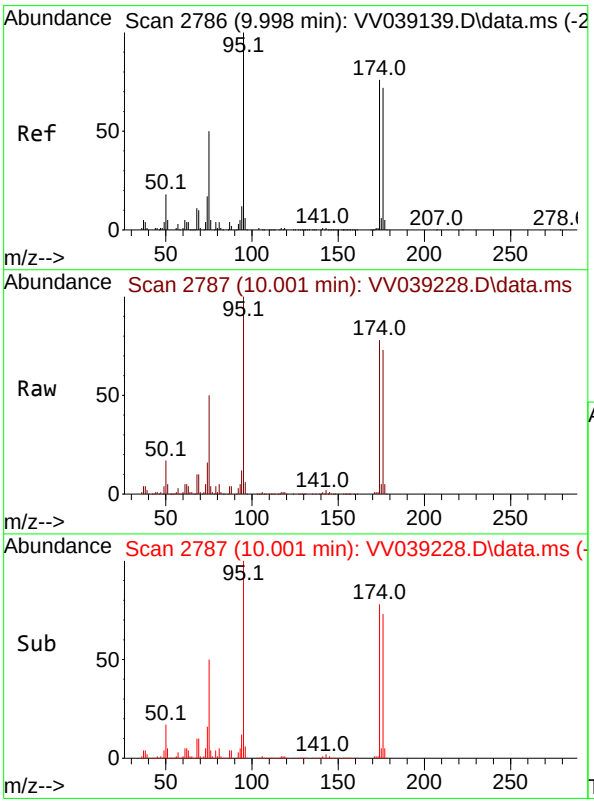

#50
Toluene-d8
Concen: 45.378 ug/l
RT: 7.240 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725

Tgt Ion: 98 Resp: 853418

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.9 | 52.2 | 78.2 |

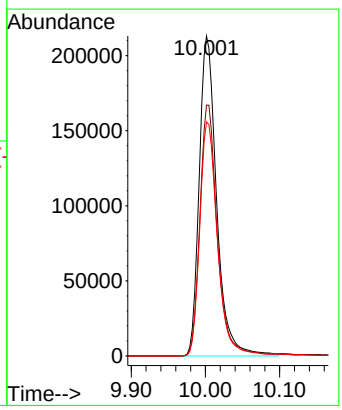


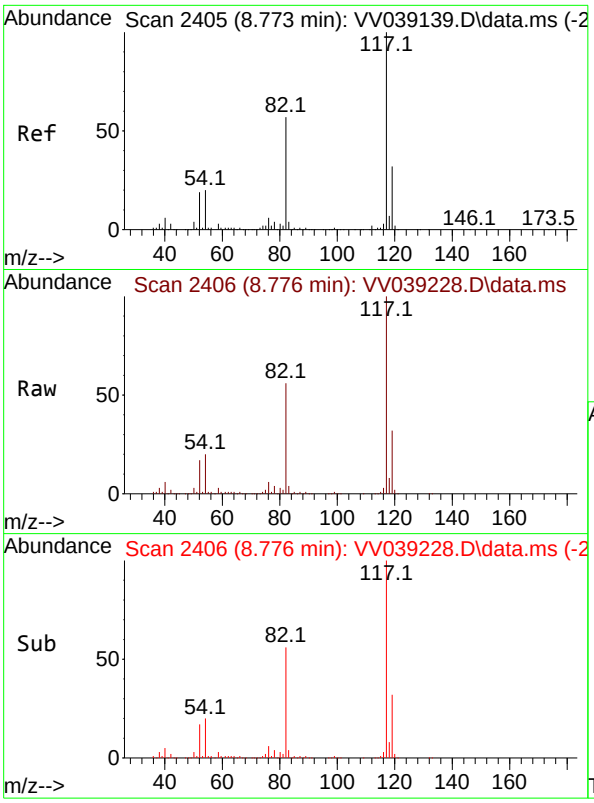




#62
4-Bromofluorobenzene
Concen: 44.912 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

Tgt Ion: 95 Resp: 347720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 79.0 | 0.0 | 150.4 |
| 176 | 73.9 | 0.0 | 144.2 |



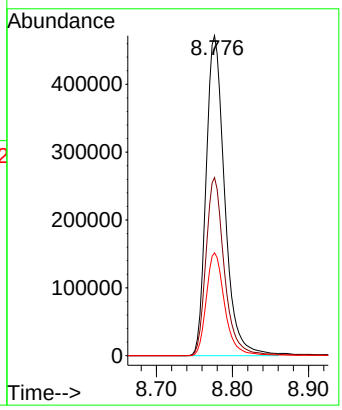


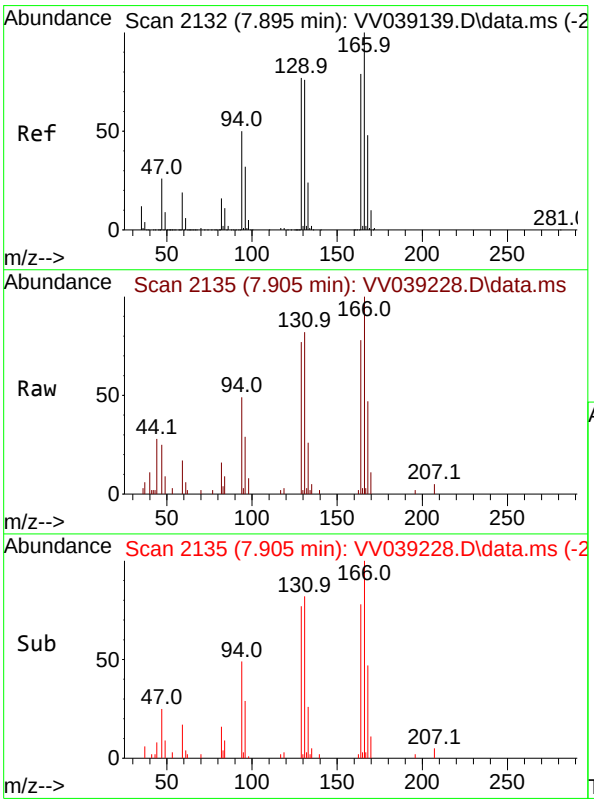

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725

Tgt Ion:117 Resp: 800959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 55.6 | 45.4 | 68.2 |
| 119 | 32.2 | 25.6 | 38.4 |

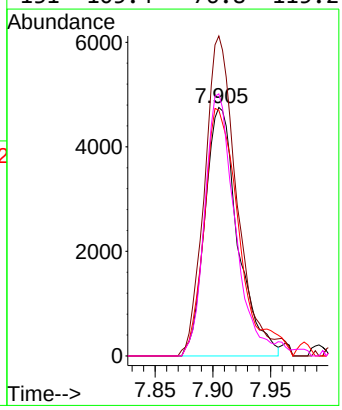


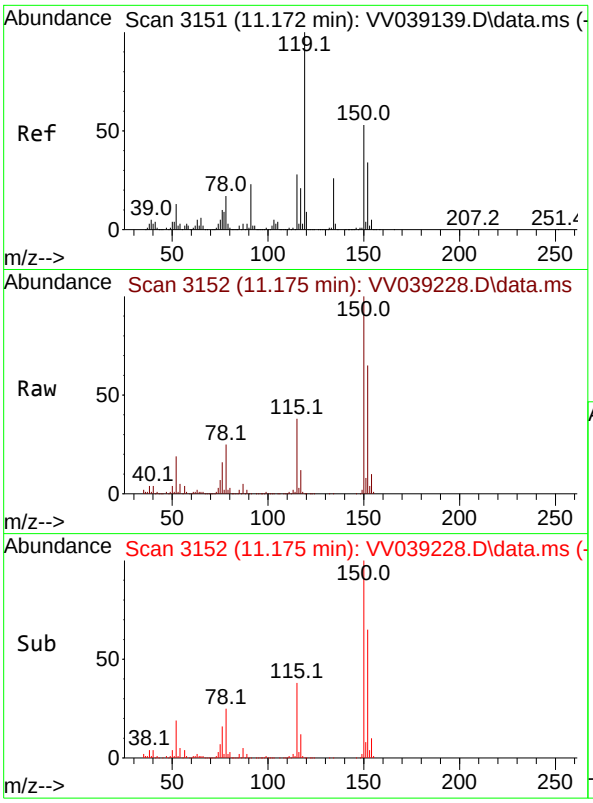




#64
Tetrachloroethene
Concen: 1.403 ug/l
RT: 7.905 min Scan# 2135
Delta R.T. 0.010 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

Tgt Ion:164 Resp: 9414

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 128.8 | 101.6 | 152.4 |
| 129 | 98.9 | 78.5 | 117.7 |
| 131 | 105.4 | 76.8 | 115.2 |



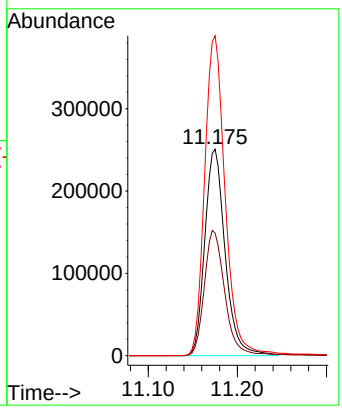



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039228.D
Acq: 29 Sep 2025 13:53

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725

Tgt Ion:152 Resp: 398638

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 61.2 | 44.8 | 134.4 |
| 150 | 155.8 | 0.0 | 353.8 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039228.D
Acq On : 29 Sep 2025 13:53
Operator : SY/MD
Sample : Q3195-19
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039228.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.121 | 19 | 25 | 47 | rVB | 85695 | 130559 | 5.45% | 0.886% |
| 2 | 2.082 | 315 | 324 | 335 | rBV4 | 37584 | 68447 | 2.86% | 0.464% |
| 3 | 3.831 | 854 | 868 | 891 | rBV2 | 20206 | 65434 | 2.73% | 0.444% |
| 4 | 4.503 | 1059 | 1077 | 1095 | rBV2 | 412529 | 1093878 | 45.67% | 7.420% |
| 5 | 4.600 | 1095 | 1107 | 1146 | rVB | 529710 | 1449450 | 60.51% | 9.832% |
| 6 | 4.944 | 1202 | 1214 | 1251 | rBV | 416053 | 1036924 | 43.29% | 7.033% |
| 7 | 5.535 | 1384 | 1398 | 1442 | rBV | 803373 | 1894227 | 79.08% | 12.848% |
| 8 | 5.841 | 1481 | 1493 | 1519 | rBV3 | 85783 | 209917 | 8.76% | 1.424% |
| 9 | 7.240 | 1914 | 1928 | 1964 | rBV | 1161489 | 2241250 | 93.56% | 15.202% |
| 10 | 7.905 | 2127 | 2135 | 2147 | rVB3 | 36566 | 68444 | 2.86% | 0.464% |
| 11 | 8.776 | 2394 | 2406 | 2432 | rBV | 1395639 | 2384246 | 99.53% | 16.172% |
| 12 | 10.001 | 2774 | 2787 | 2813 | rBV | 1033756 | 1704655 | 71.16% | 11.563% |
| 13 | 11.175 | 3141 | 3152 | 3179 | rBV | 1476126 | 2395419 | 100.00% | 16.248% |

Sum of corrected areas: 14742850

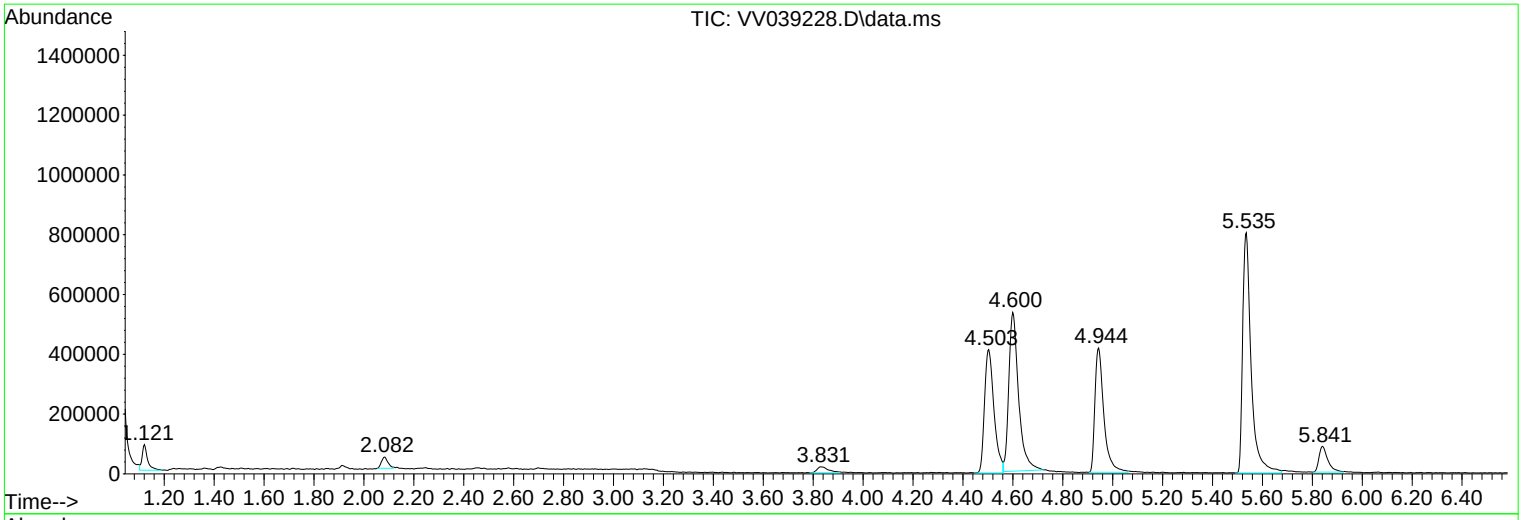
Sample Results: **VV039228.D**

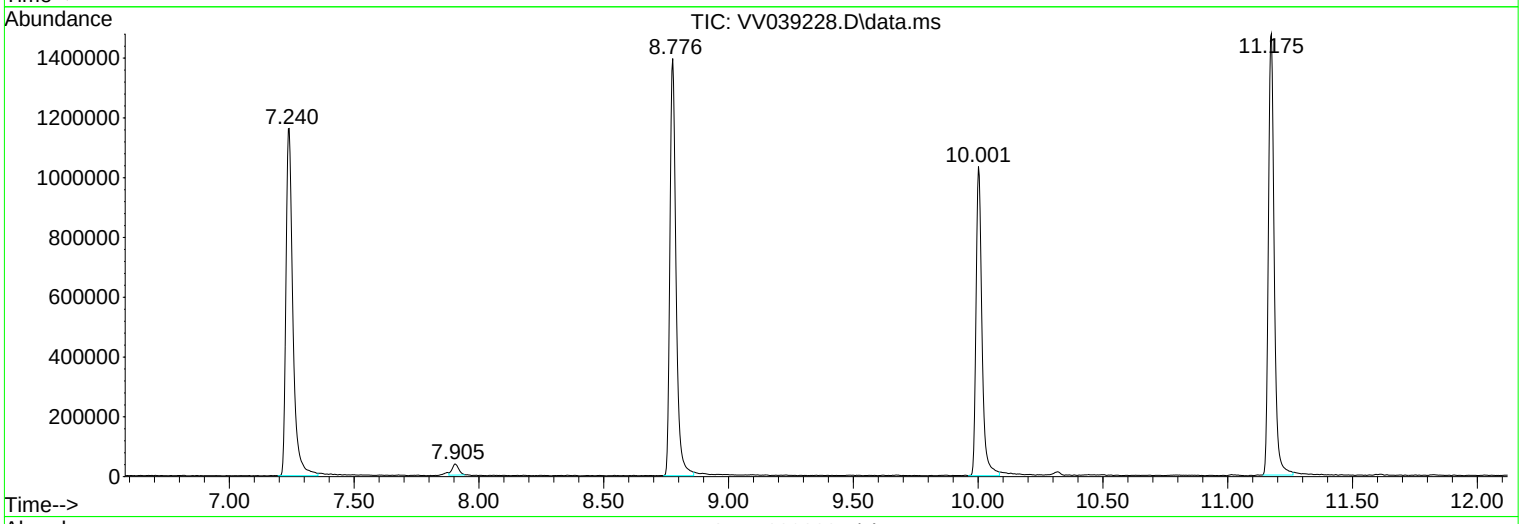
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039228.D
Acq On : 29 Sep 2025 13:53
Operator : SY/MD
Sample : Q3195-19
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

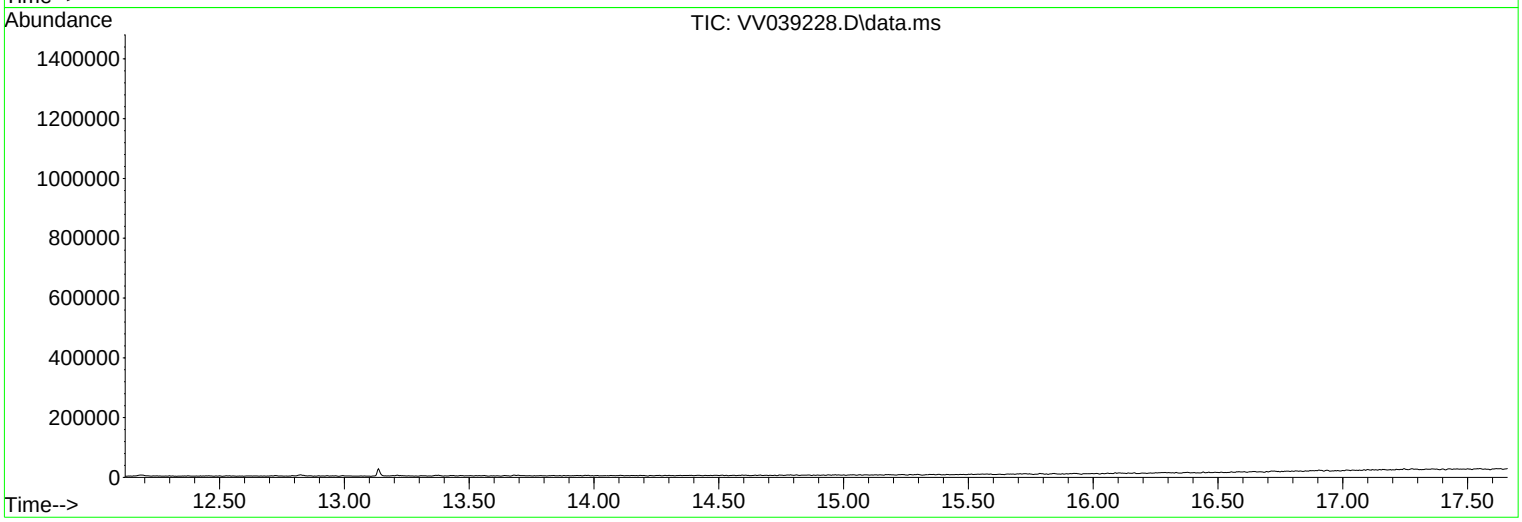
**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039228.D
Acq On : 29 Sep 2025 13:53
Operator : SY/MD
Sample : Q3195-19
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039228.D
Acq On : 29 Sep 2025 13:53
Operator : SY/MD
Sample : Q3195-19
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/24/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | RW-1-092425 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-22 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039186.D | 1 | 09/25/25 17:03 | VV092525 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.33 | U | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.25 | U | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 1.50 | U | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 0.27 | U | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 1.50 | U | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.25 | U | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.16 | U | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.64 | J | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | U | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.14 | U | 0.14 | 1.00 | ug/L |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/24/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | RW-1-092425 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-22 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039186.D | 1 | 09/25/25 17:03 | VV092525 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.15 | U | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | U | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | U | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.53 | U | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 55.5 | | 74 - 125 | 111% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 49.4 | | 75 - 124 | 99% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 45.5 | | 86 - 113 | 91% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 42.8 | | 77 - 121 | 86% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 349000 | 4.603 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 629000 | 5.535 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 612000 | 8.776 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 288000 | 11.175 | | | |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/24/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | RW-1-092425 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-22 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039186.D | 1 | 09/25/25 17:03 | VV092525 |

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039186.D
Acq On : 25 Sep 2025 17:03
Operator : SY/MD
Sample : Q3195-22
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
RW-1-092425

Quant Time: Sep 26 01:33:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

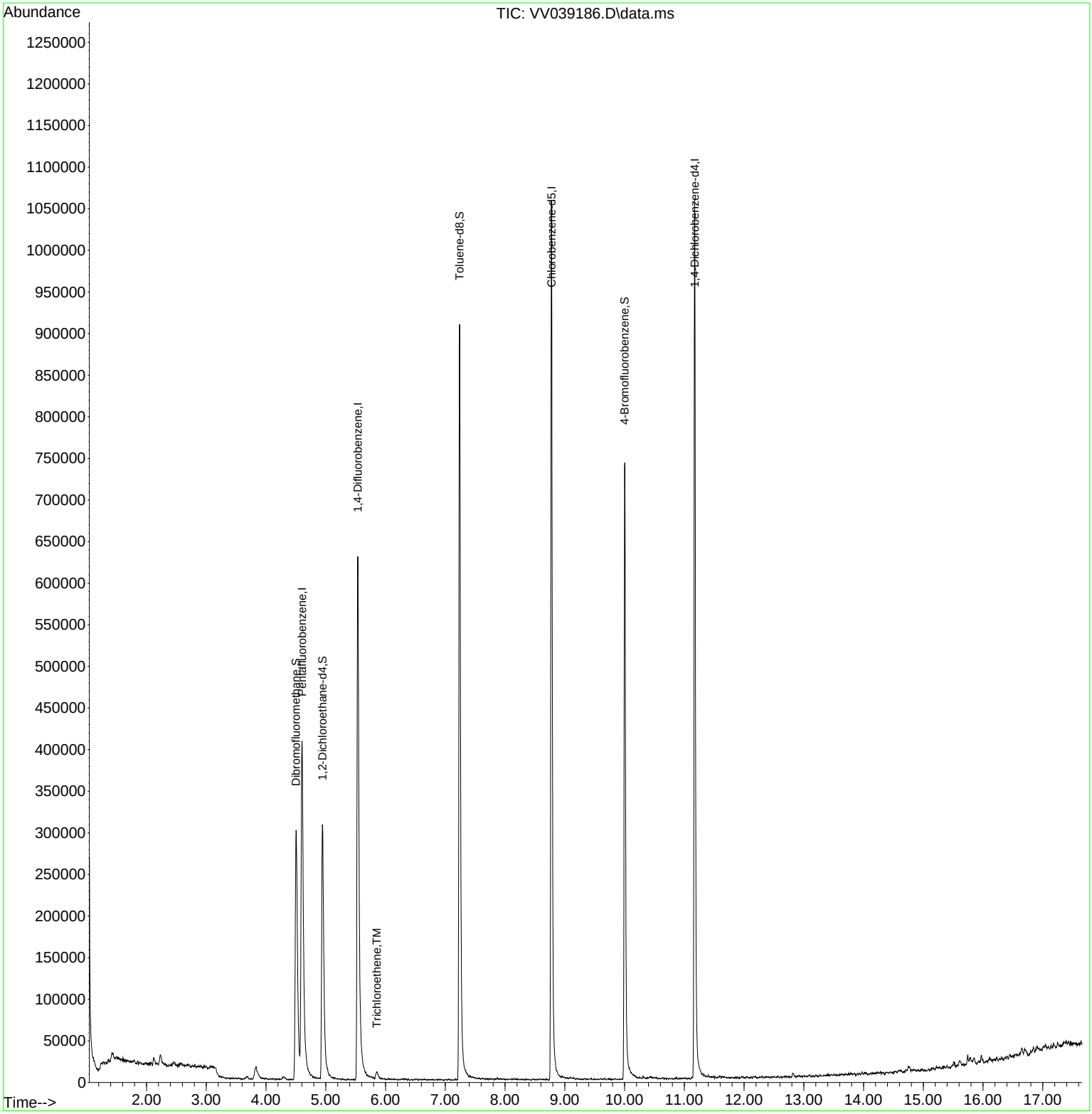
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.603 | 168 | 349429 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.535 | 114 | 628697 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.776 | 117 | 611801 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.175 | 152 | 288234 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.944 | 65 | 280558 | 55.476 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 110.960% | | | |
| 35) Dibromofluoromethane | 4.503 | 113 | 249782 | 49.421 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 98.840% | | | |
| 50) Toluene-d8 | 7.239 | 98 | 674823 | 45.460 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 90.920% | | | |
| 62) 4-Bromofluorobenzene | 10.001 | 95 | 261365 | 42.770 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 85.540% | | | |
| Target Compounds | | | | | | Qvalue |
| 44) Trichloroethene | 5.854 | 130 | 3671 | 0.639 | ug/l | 95 |

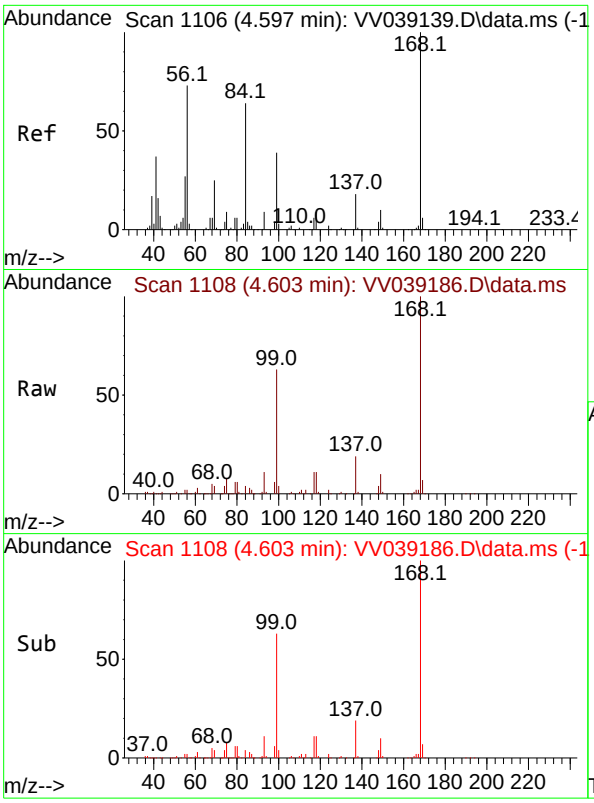
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039186.D
Acq On : 25 Sep 2025 17:03
Operator : SY/MD
Sample : Q3195-22
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
RW-1-092425

Quant Time: Sep 26 01:33:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



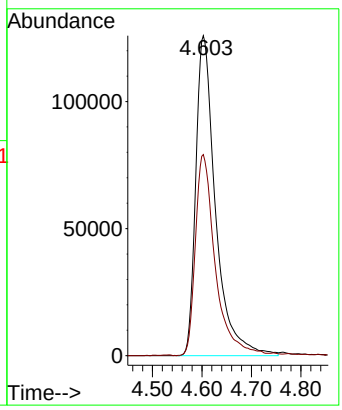


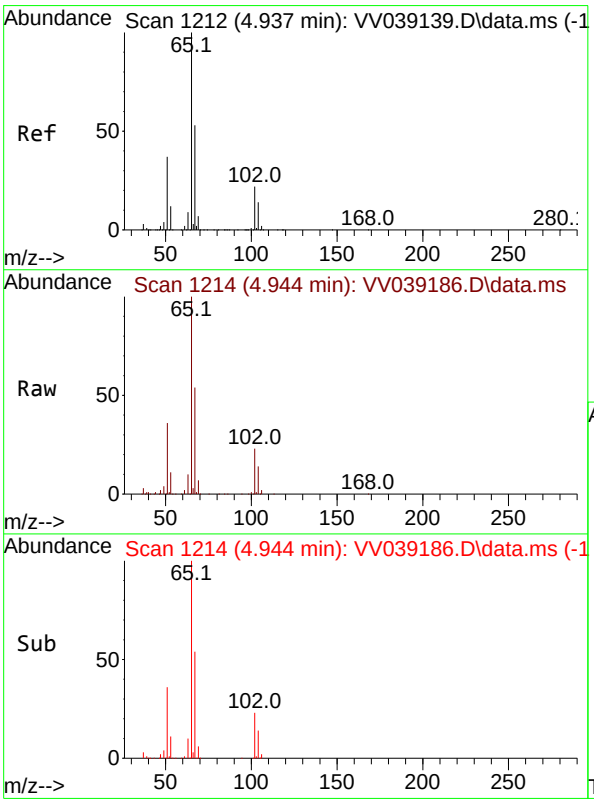

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 11
Delta R.T. 0.006 min
Lab File: VV039186.D
Acq: 25 Sep 2025 17:03

**Instrument :**
MSVOA_V
**ClientSampleId :**
RW-1-092425

Tgt Ion:168 Resp: 349429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 62.7 | 49.6 | 74.4 |

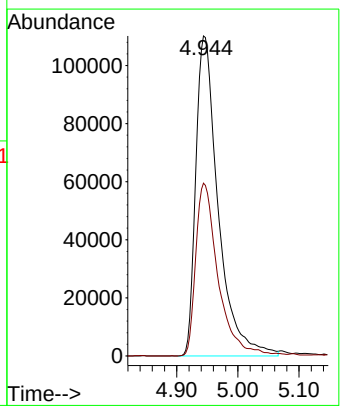


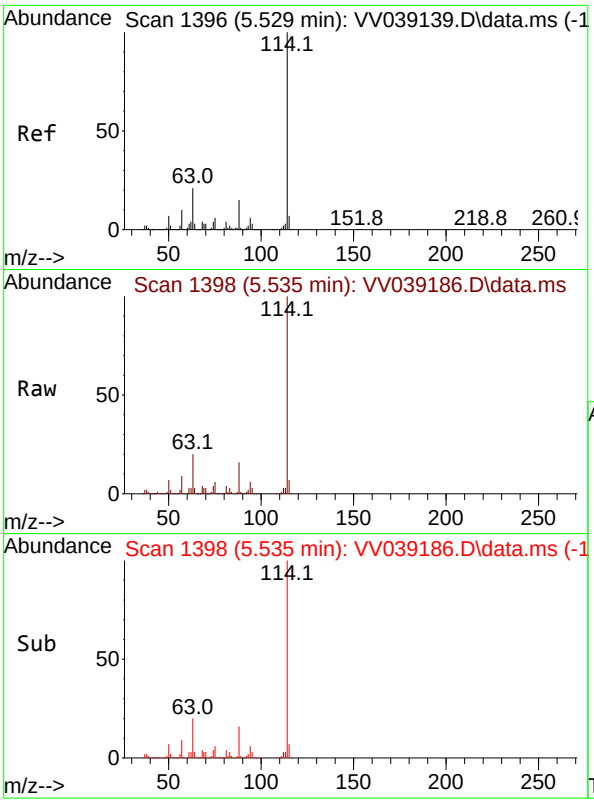




#33
1,2-Dichloroethane-d4
Concen: 55.476 ug/l
RT: 4.944 min Scan# 1214
Delta R.T. 0.006 min
Lab File: VV039186.D
Acq: 25 Sep 2025 17:03

Tgt Ion: 65 Resp: 280558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.7 | 0.0 | 107.0 |



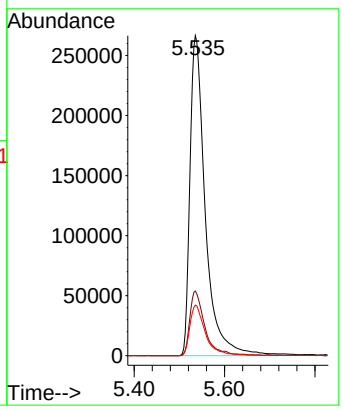


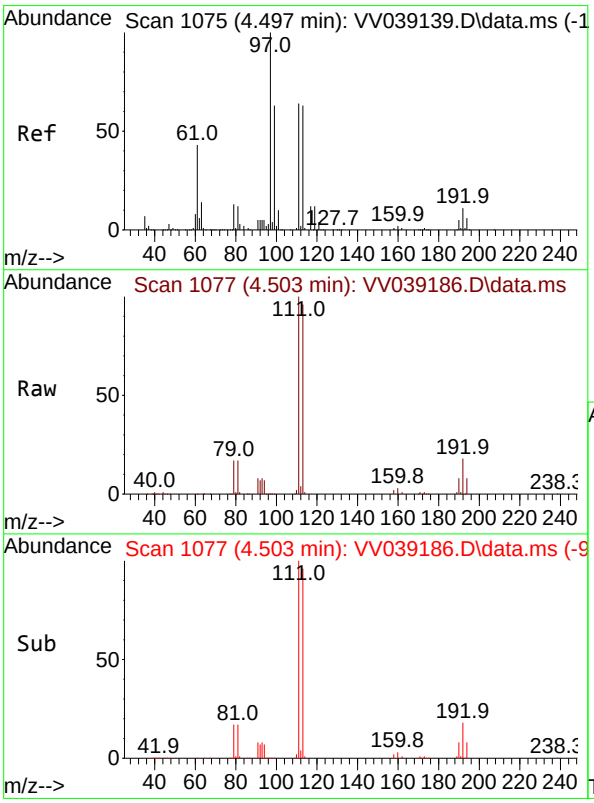

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039186.D
Acq: 25 Sep 2025 17:03

**Instrument :**
MSVOA_V
**ClientSampleId :**
RW-1-092425

Tgt Ion:114 Resp: 628697

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.2 | 0.0 | 42.6 |
| 88 | 15.8 | 0.0 | 30.8 |

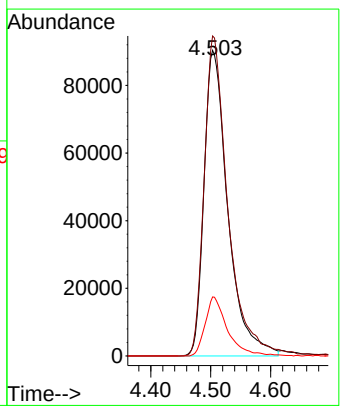


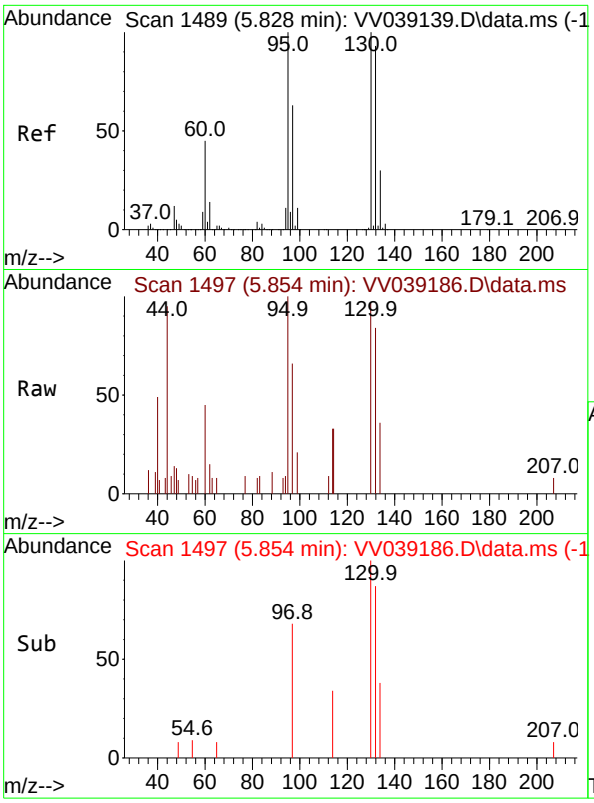




#35
Dibromofluoromethane
Concen: 49.421 ug/l
RT: 4.503 min Scan# 1077
Delta R.T. 0.006 min
Lab File: VV039186.D
Acq: 25 Sep 2025 17:03

Tgt Ion:113 Resp: 249782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 104.1 | 82.4 | 123.6 |
| 192 | 18.1 | 13.8 | 20.8 |



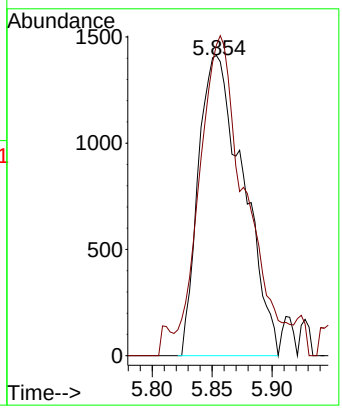


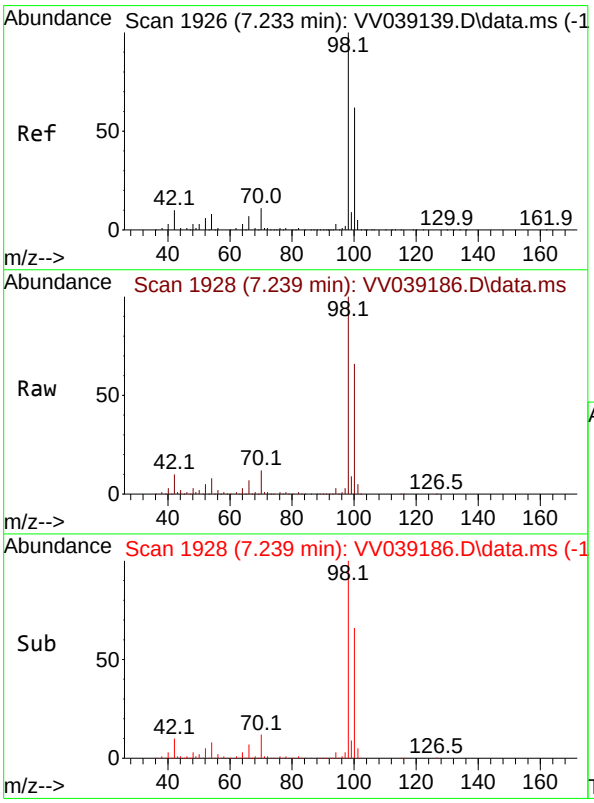

#44
Trichloroethene
Concen: 0.639 ug/l
RT: 5.854 min Scan# 14
Delta R.T. 0.026 min
Lab File: VV039186.D
Acq: 25 Sep 2025 17:03

**Instrument :**
MSVOA_V
**ClientSampleId :**
RW-1-092425

Tgt Ion:130 Resp: 3671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 94.8 | 0.0 | 199.2 |

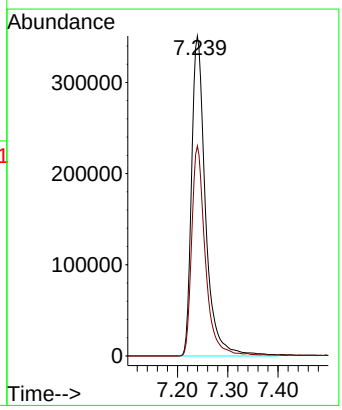


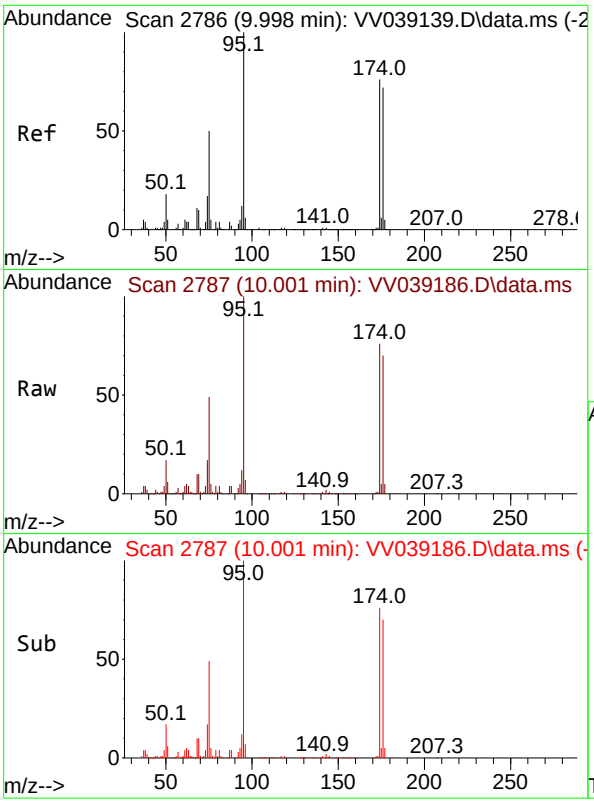




#50
Toluene-d8
Concen: 45.460 ug/l
RT: 7.239 min Scan# 1928
Delta R.T. 0.006 min
Lab File: VV039186.D
Acq: 25 Sep 2025 17:03

Tgt Ion: 98 Resp: 674823

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.7 | 52.2 | 78.2 |



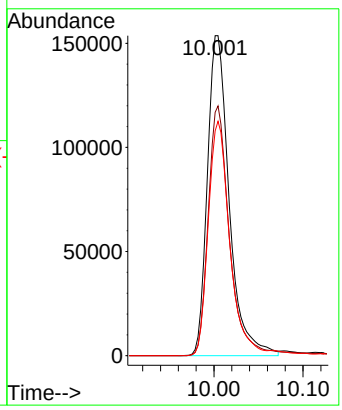


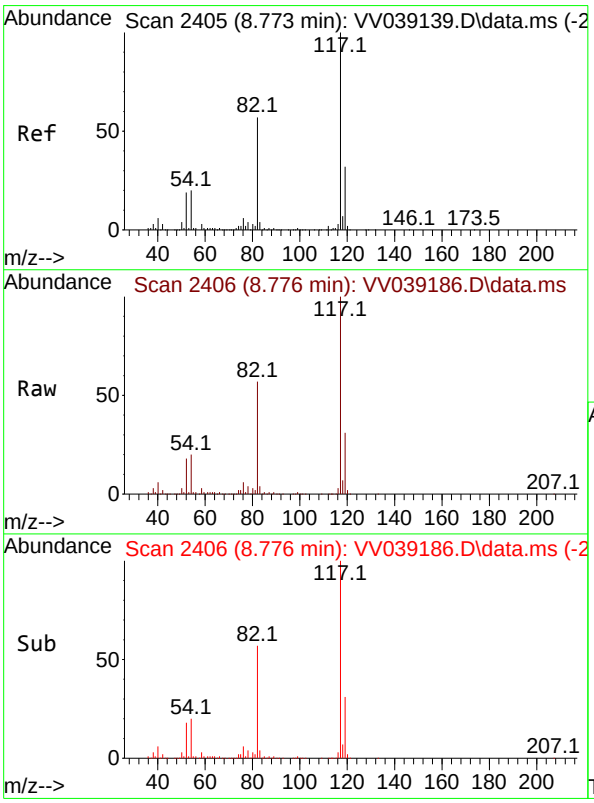

#62
4-Bromofluorobenzene
Concen: 42.770 ug/l
RT: 10.001 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039186.D
Acq: 25 Sep 2025 17:03

**Instrument :**
MSVOA_V
**ClientSampleId :**
RW-1-092425

Tgt Ion: 95 Resp: 261365

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 77.3 | 0.0 | 150.4 |
| 176 | 71.8 | 0.0 | 144.2 |

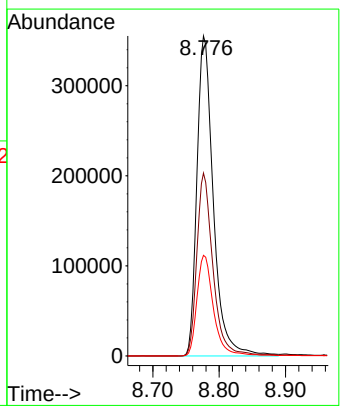


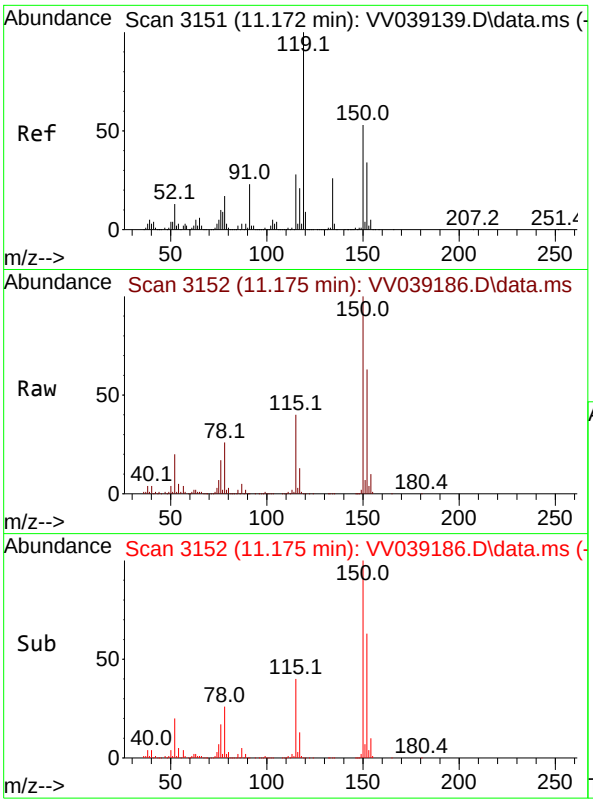




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039186.D
Acq: 25 Sep 2025 17:03

Tgt Ion:117 Resp: 611801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.2 | 45.4 | 68.2 |
| 119 | 31.5 | 25.6 | 38.4 |



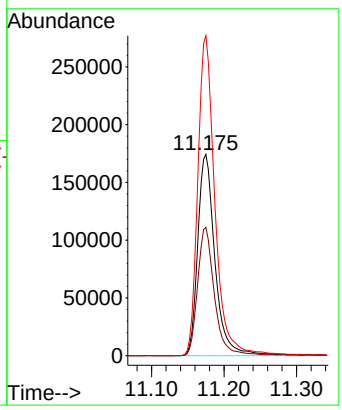



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039186.D
Acq: 25 Sep 2025 17:03

**Instrument :**
MSVOA_V
**ClientSampleId :**
RW-1-092425

Tgt Ion:152 Resp: 288234

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 61.9 | 44.8 | 134.4 |
| 150 | 158.0 | 0.0 | 353.8 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039186.D
Acq On : 25 Sep 2025 17:03
Operator : SY/MD
Sample : Q3195-22
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
RW-1-092425

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039186.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 3.834 | 852 | 869 | 874 | rBV3 | 15024 | 37938 | 2.06% | 0.352% |
| 2 | 4.503 | 1063 | 1077 | 1096 | rBV | 299941 | 790727 | 42.96% | 7.337% |
| 3 | 4.603 | 1096 | 1108 | 1138 | rVB | 397597 | 1069516 | 58.11% | 9.924% |
| 4 | 4.944 | 1203 | 1214 | 1239 | rBV | 305410 | 767938 | 41.72% | 7.126% |
| 5 | 5.535 | 1385 | 1398 | 1437 | rBV | 629123 | 1487698 | 80.83% | 13.805% |
| 6 | 5.854 | 1487 | 1497 | 1503 | rBV | 8542 | 18848 | 1.02% | 0.175% |
| 7 | 7.239 | 1916 | 1928 | 1959 | rBV | 908166 | 1745814 | 94.86% | 16.200% |
| 8 | 8.776 | 2392 | 2406 | 2432 | rBV | 1056906 | 1840500 | 100.00% | 17.078% |
| 9 | 10.005 | 2777 | 2788 | 2810 | rBV | 740902 | 1257810 | 68.34% | 11.672% |
| 10 | 11.175 | 3141 | 3152 | 3188 | rBV | 1055868 | 1759964 | 95.62% | 16.331% |

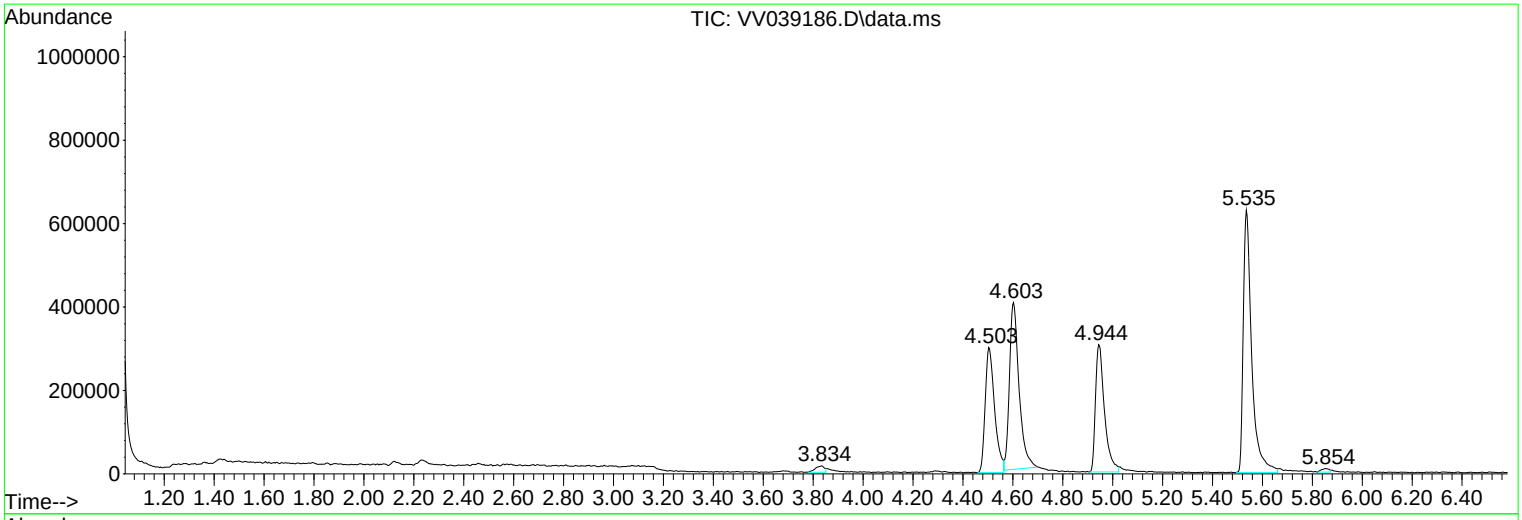
Sum of corrected areas: 10776753

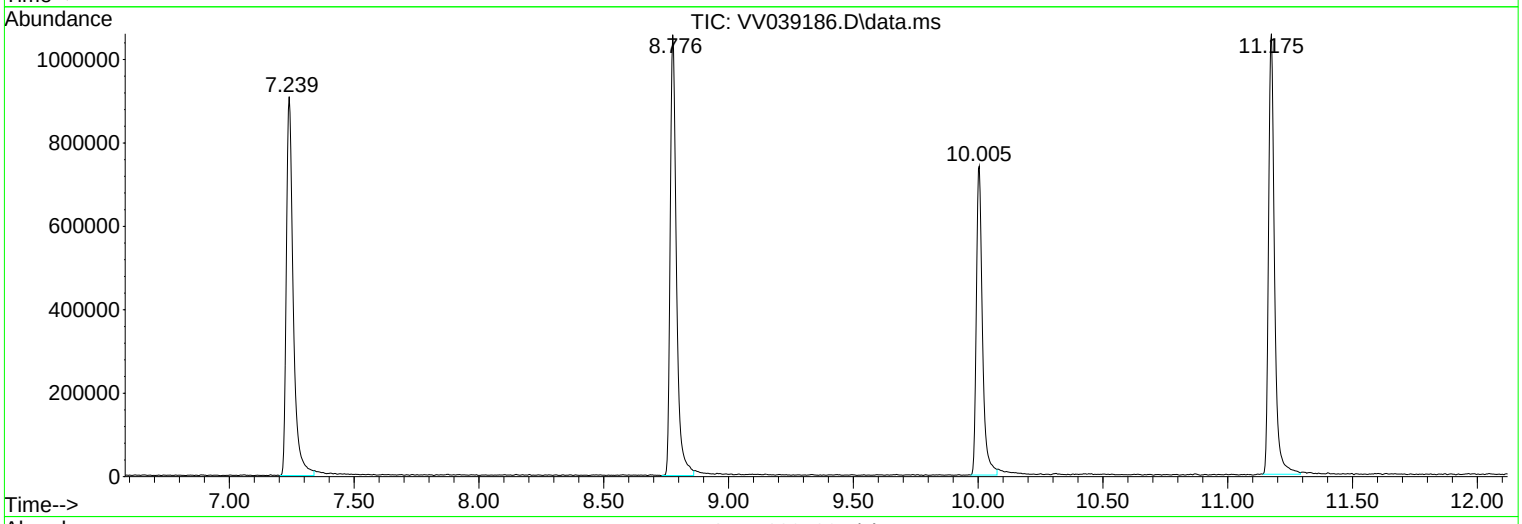
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039186.D
Acq On : 25 Sep 2025 17:03
Operator : SY/MD
Sample : Q3195-22
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 20 Sample Multiplier: 1

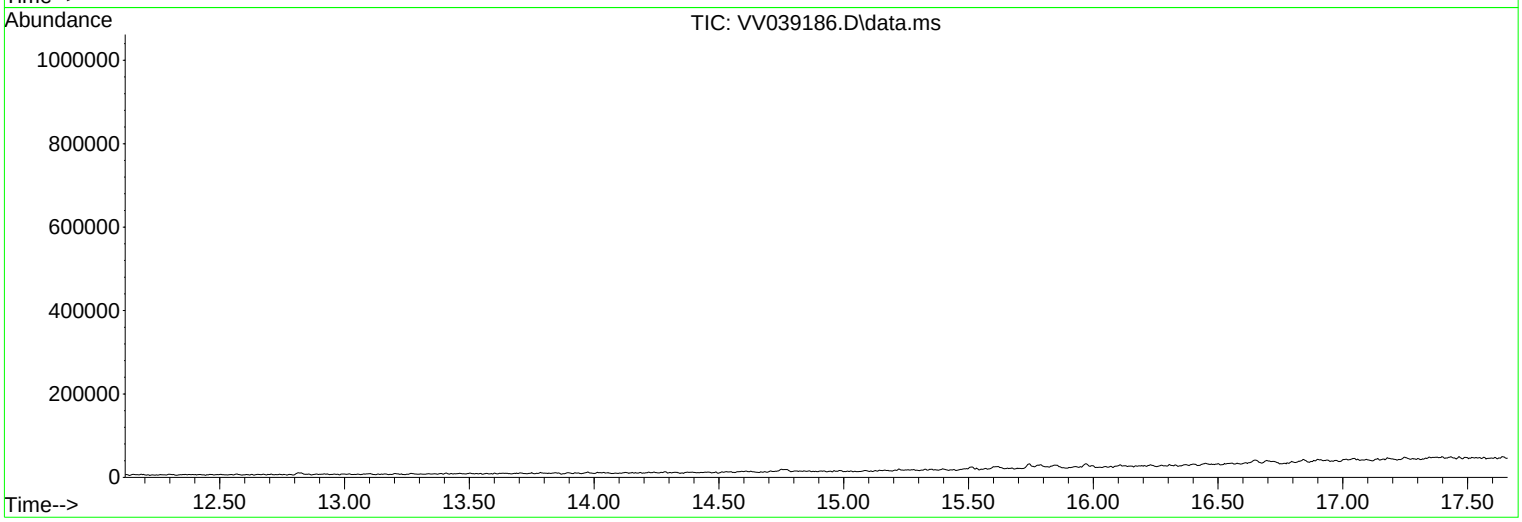
**Instrument :**
MSVOA_V
**ClientSampleId :**
RW-1-092425

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039186.D
Acq On : 25 Sep 2025 17:03
Operator : SY/MD
Sample : Q3195-22
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
RW-1-092425

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039186.D
Acq On : 25 Sep 2025 17:03
Operator : SY/MD
Sample : Q3195-22
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
RW-1-092425

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/19/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | EB-01-091925 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-23 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039187.D | 1 | 09/25/25 17:25 | VV092525 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.33 | U | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.25 | U | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 1.50 | U | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 0.27 | U | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 1.50 | U | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.25 | U | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.16 | U | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.090 | U | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | U | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.14 | U | 0.14 | 1.00 | ug/L |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/19/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | EB-01-091925 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-23 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039187.D | 1 | 09/25/25 17:25 | VV092525 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.15 | U | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | U | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | U | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.53 | U | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 53.5 | | 74 - 125 | 107% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.7 | | 75 - 124 | 101% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 45.3 | | 86 - 113 | 91% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 43.7 | | 77 - 121 | 87% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 361000 | 4.603 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 632000 | 5.535 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 624000 | 8.776 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 293000 | 11.175 | | | |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/19/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | EB-01-091925 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-23 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039187.D | 1 | 09/25/25 17:25 | VV092525 |

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039187.D
Acq On : 25 Sep 2025 17:25
Operator : SY/MD
Sample : Q3195-23
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
EB-01-091925

Quant Time: Sep 26 01:34:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

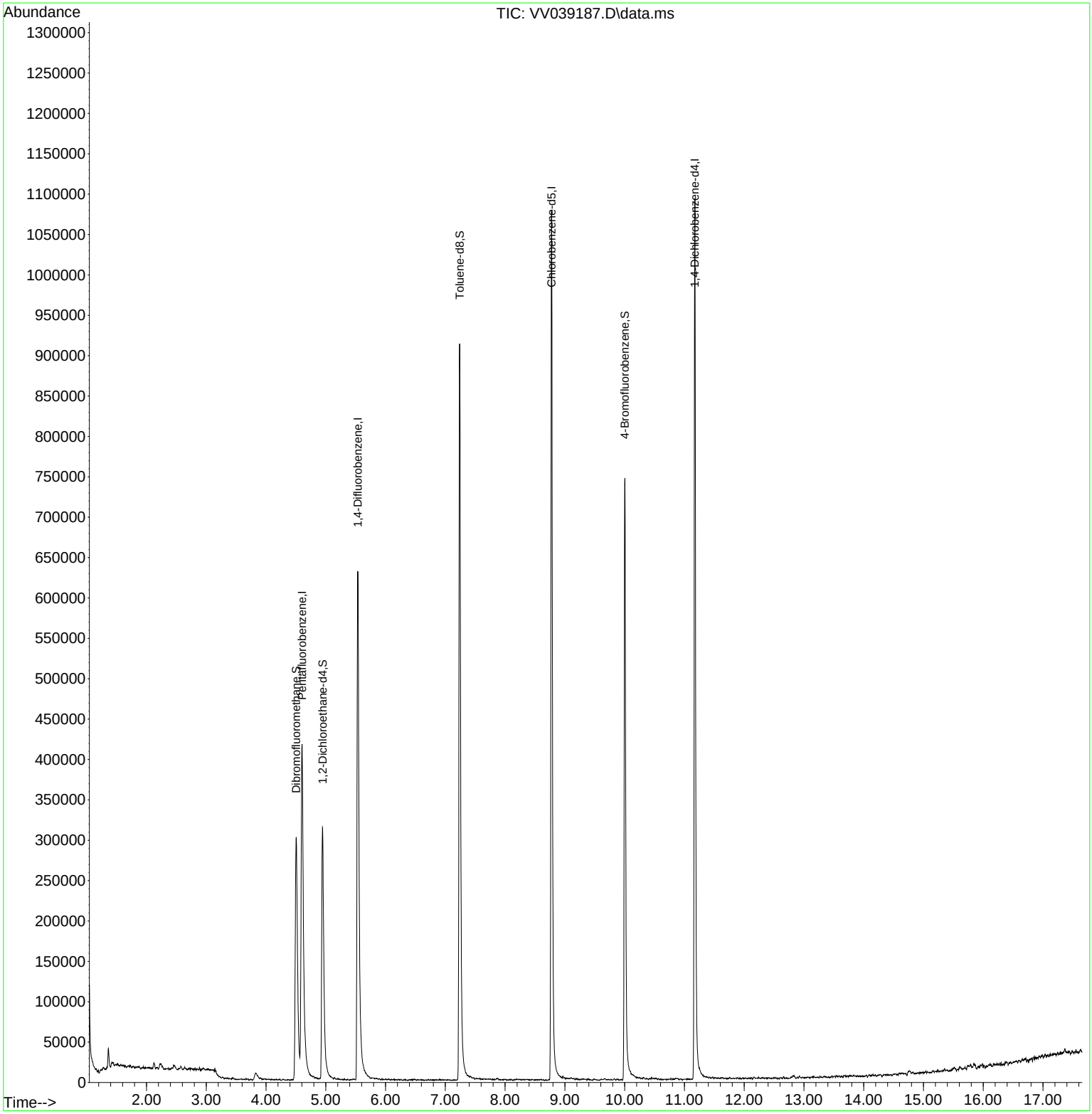
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.603 | 168 | 360957 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.535 | 114 | 632244 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.776 | 117 | 624309 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.175 | 152 | 293380 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.947 | 65 | 279642 | 53.529 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 107.060% | | | |
| 35) Dibromofluoromethane | 4.506 | 113 | 257560 | 50.674 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 101.340% | | | |
| 50) Toluene-d8 | 7.239 | 98 | 676812 | 45.338 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 90.680% | | | |
| 62) 4-Bromofluorobenzene | 10.001 | 95 | 268424 | 43.678 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 87.360% | | | |
| Target Compounds | | | | | | Qvalue |

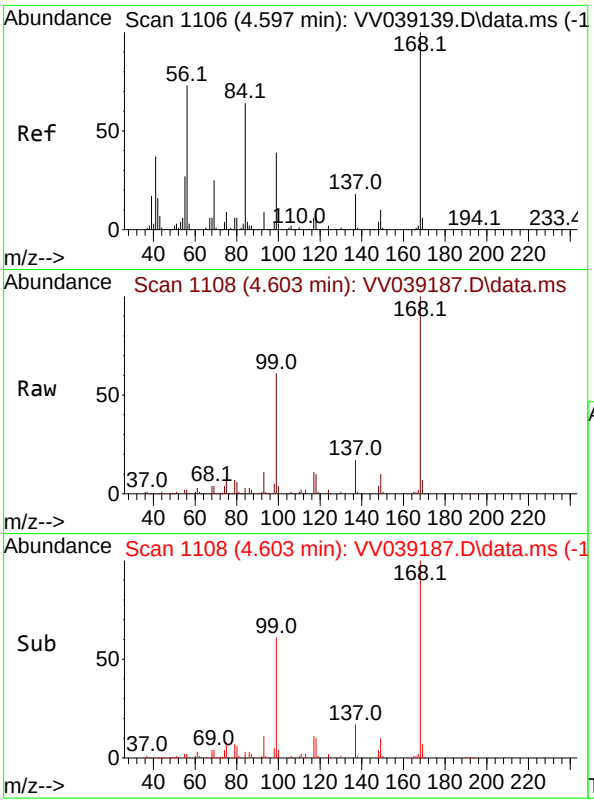
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039187.D
Acq On : 25 Sep 2025 17:25
Operator : SY/MD
Sample : Q3195-23
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
EB-01-091925

Quant Time: Sep 26 01:34:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



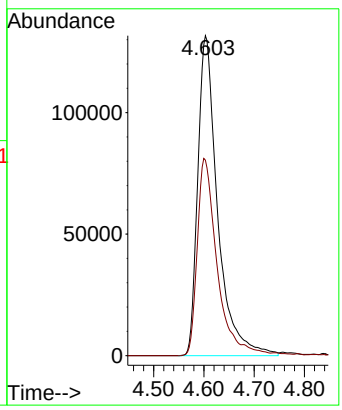


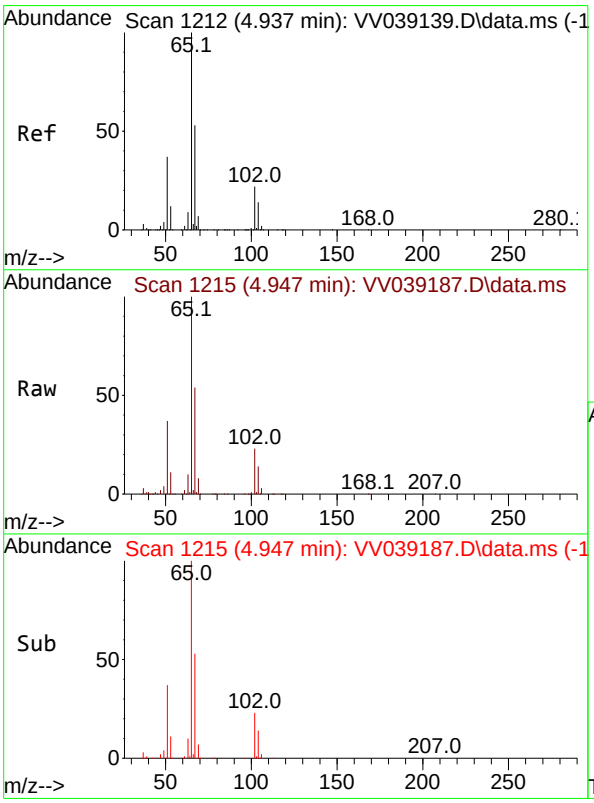

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 11
Delta R.T. 0.006 min
Lab File: VV039187.D
Acq: 25 Sep 2025 17:25

**Instrument :**
MSVOA_V
**ClientSampleId :**
EB-01-091925

Tgt Ion:168 Resp: 360957

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 61.1 | 49.6 | 74.4 |

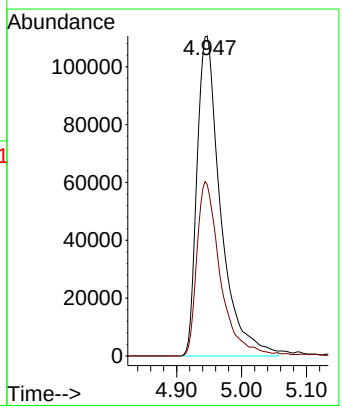


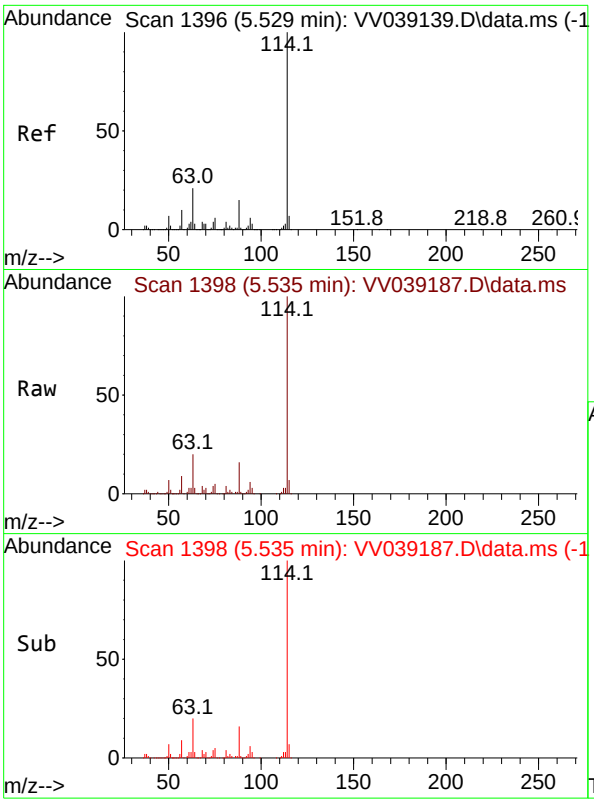




#33
1,2-Dichloroethane-d4
Concen: 53.529 ug/l
RT: 4.947 min Scan# 1215
Delta R.T. 0.010 min
Lab File: VV039187.D
Acq: 25 Sep 2025 17:25

Tgt Ion: 65 Resp: 279642

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.8 | 0.0 | 107.0 |



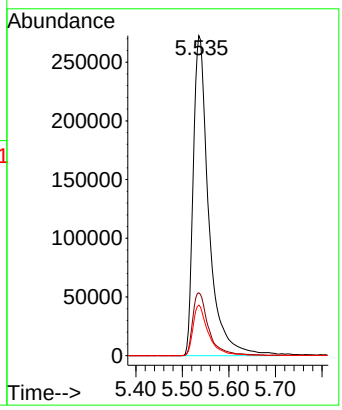


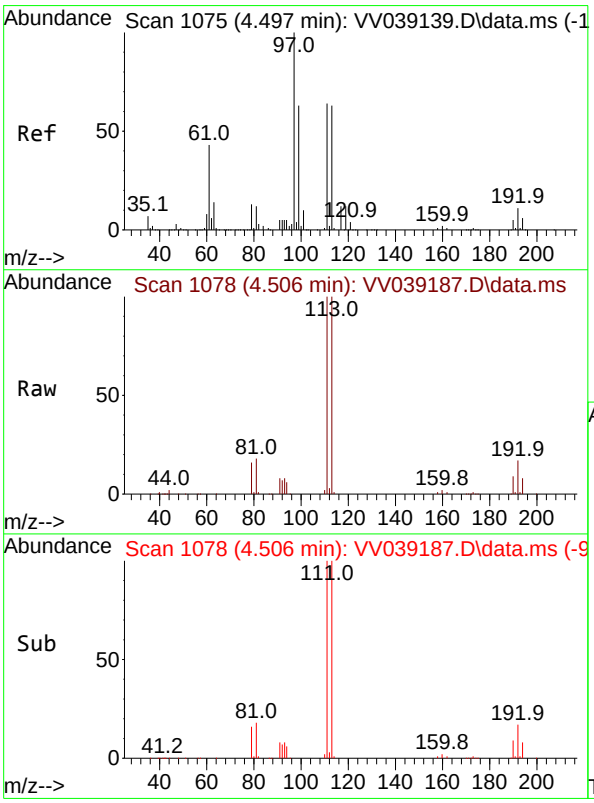

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039187.D
Acq: 25 Sep 2025 17:25

**Instrument :**
MSVOA_V
**ClientSampleId :**
EB-01-091925

Tgt Ion:114 Resp: 632244

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.6 | 0.0 | 42.6 |
| 88 | 15.8 | 0.0 | 30.8 |

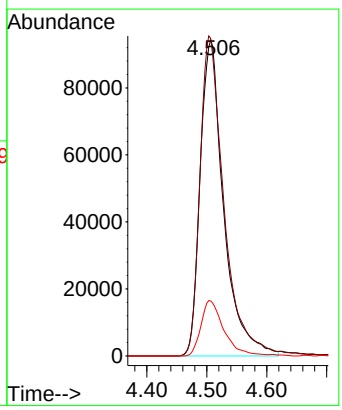


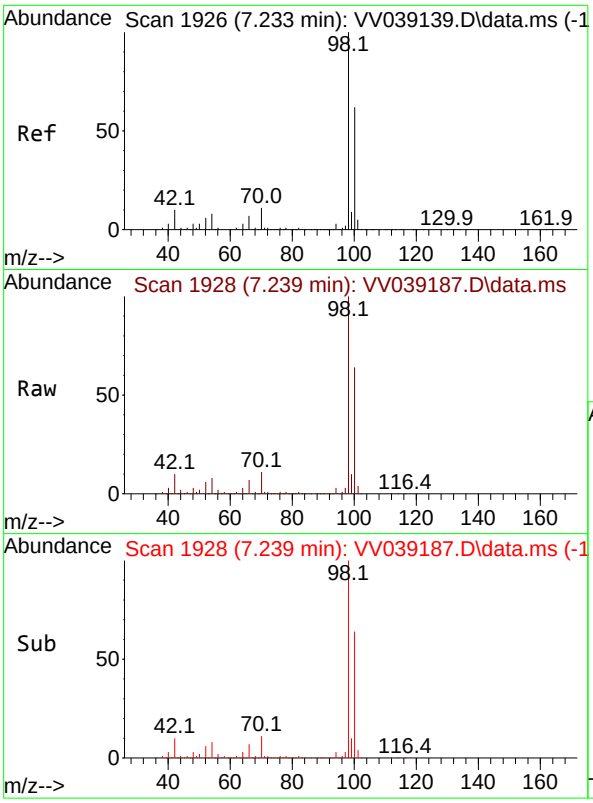




#35
Dibromofluoromethane
Concen: 50.674 ug/l
RT: 4.506 min Scan# 1078
Delta R.T. 0.010 min
Lab File: VV039187.D
Acq: 25 Sep 2025 17:25

Tgt Ion:113 Resp: 257560

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.8 | 82.4 | 123.6 |
| 192 | 17.1 | 13.8 | 20.8 |



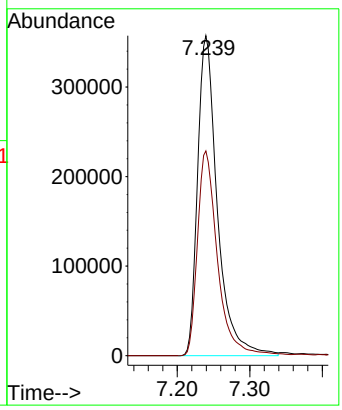


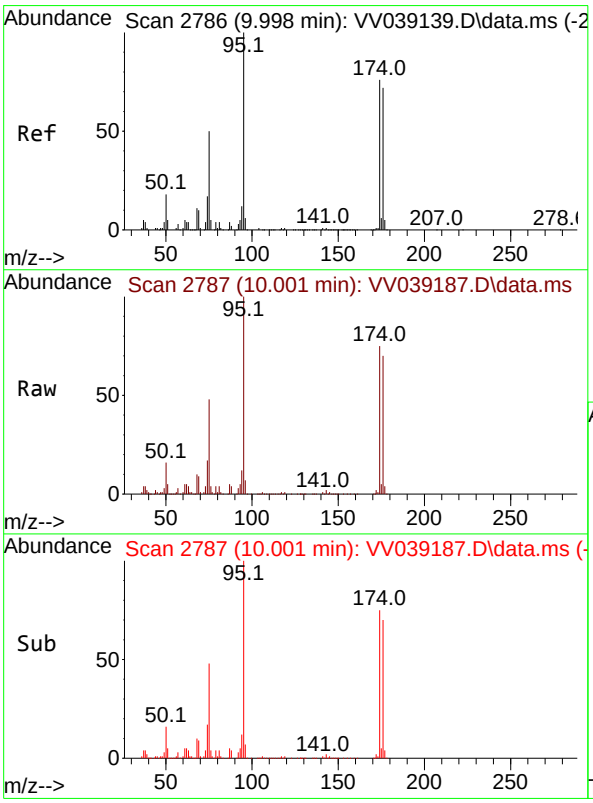

#50
Toluene-d8
Concen: 45.338 ug/l
RT: 7.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039187.D
Acq: 25 Sep 2025 17:25

**Instrument :**
MSVOA_V
**ClientSampleId :**
EB-01-091925

Tgt Ion: 98 Resp: 676812

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.9 | 52.2 | 78.2 |

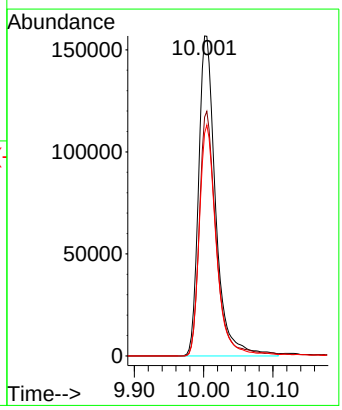


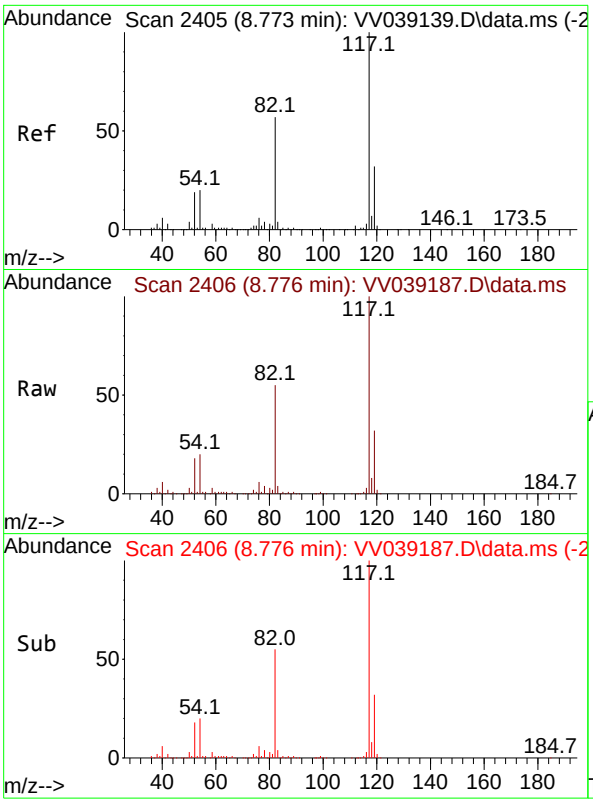




#62
4-Bromofluorobenzene
Concen: 43.678 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039187.D
Acq: 25 Sep 2025 17:25

Tgt Ion: 95 Resp: 268424

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 74.6 | 0.0 | 150.4 |
| 176 | 71.0 | 0.0 | 144.2 |



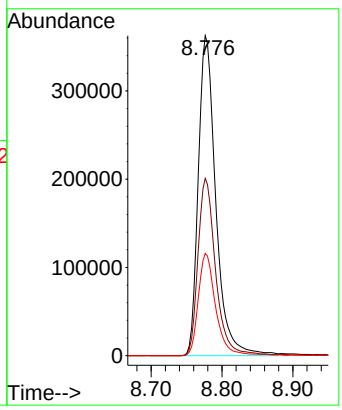


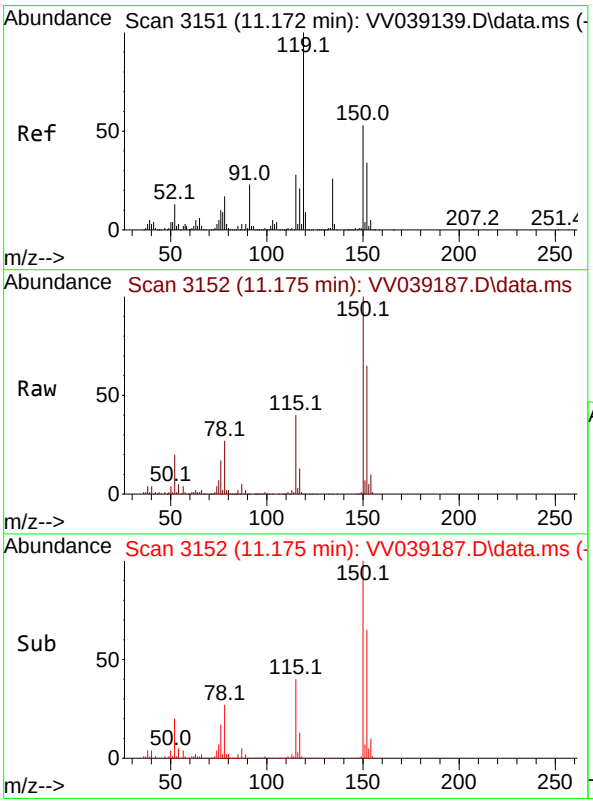

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039187.D
Acq: 25 Sep 2025 17:25

**Instrument :**
MSVOA_V
**ClientSampleId :**
EB-01-091925

Tgt Ion:117 Resp: 624309

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 55.4 | 45.4 | 68.2 |
| 119 | 31.9 | 25.6 | 38.4 |

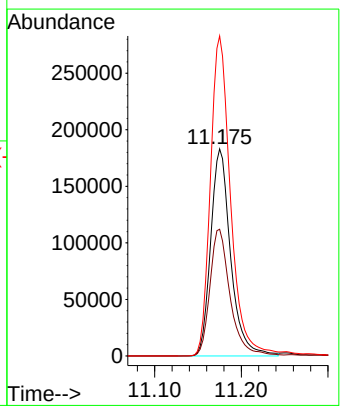



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039187.D
Acq: 25 Sep 2025 17:25

Tgt Ion:152 Resp: 293380

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 61.8 | 44.8 | 134.4 |
| 150 | 155.7 | 0.0 | 353.8 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039187.D
Acq On : 25 Sep 2025 17:25
Operator : SY/MD
Sample : Q3195-23
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
EB-01-091925

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039187.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.362 | 94 | 100 | 112 | rBV | 23980 | 32623 | 1.74% | 0.298% |
| 2 | 4.506 | 1061 | 1078 | 1096 | rBV2 | 300455 | 803025 | 42.76% | 7.335% |
| 3 | 4.603 | 1096 | 1108 | 1148 | rVB2 | 411242 | 1139792 | 60.70% | 10.411% |
| 4 | 4.944 | 1203 | 1214 | 1248 | rBV | 310798 | 776855 | 41.37% | 7.096% |
| 5 | 5.535 | 1387 | 1398 | 1432 | rBV | 629741 | 1472573 | 78.42% | 13.451% |
| 6 | 7.239 | 1915 | 1928 | 1961 | rBV | 911685 | 1776688 | 94.61% | 16.229% |
| 7 | 8.776 | 2396 | 2406 | 2443 | rBV | 1076882 | 1877896 | 100.00% | 17.154% |
| 8 | 10.005 | 2775 | 2788 | 2816 | rBV | 745457 | 1287513 | 68.56% | 11.761% |
| 9 | 11.175 | 3140 | 3152 | 3175 | rBV | 1090154 | 1780569 | 94.82% | 16.265% |

Sum of corrected areas: 10947534

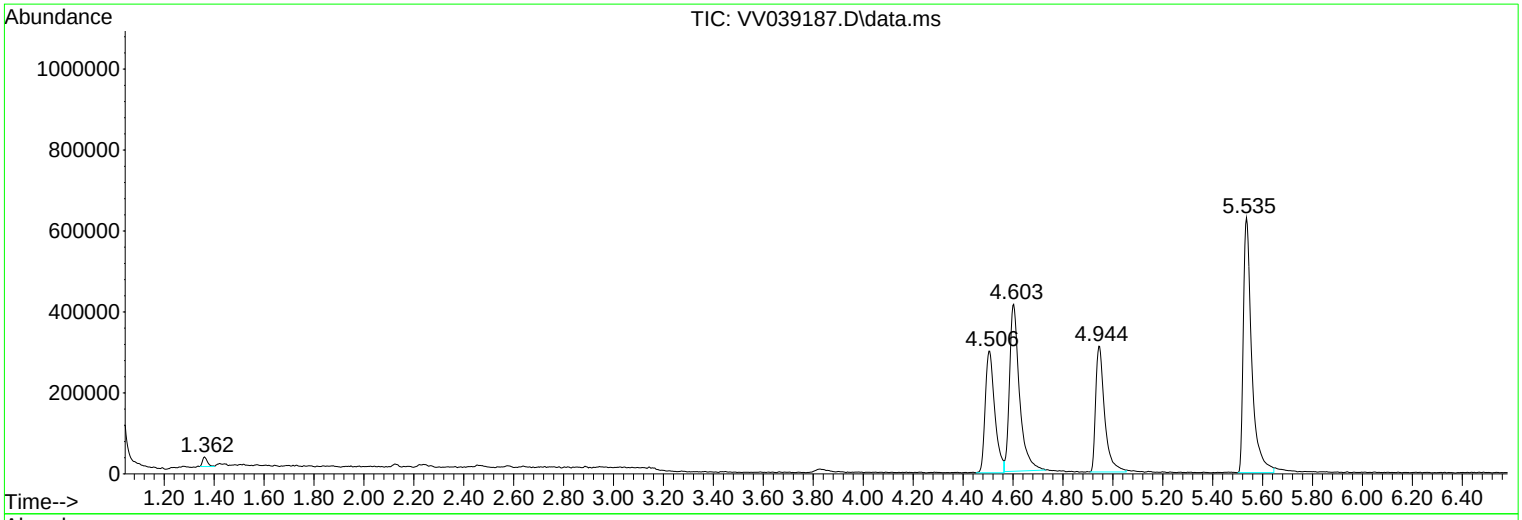
Sample Results: **VV039187.D**

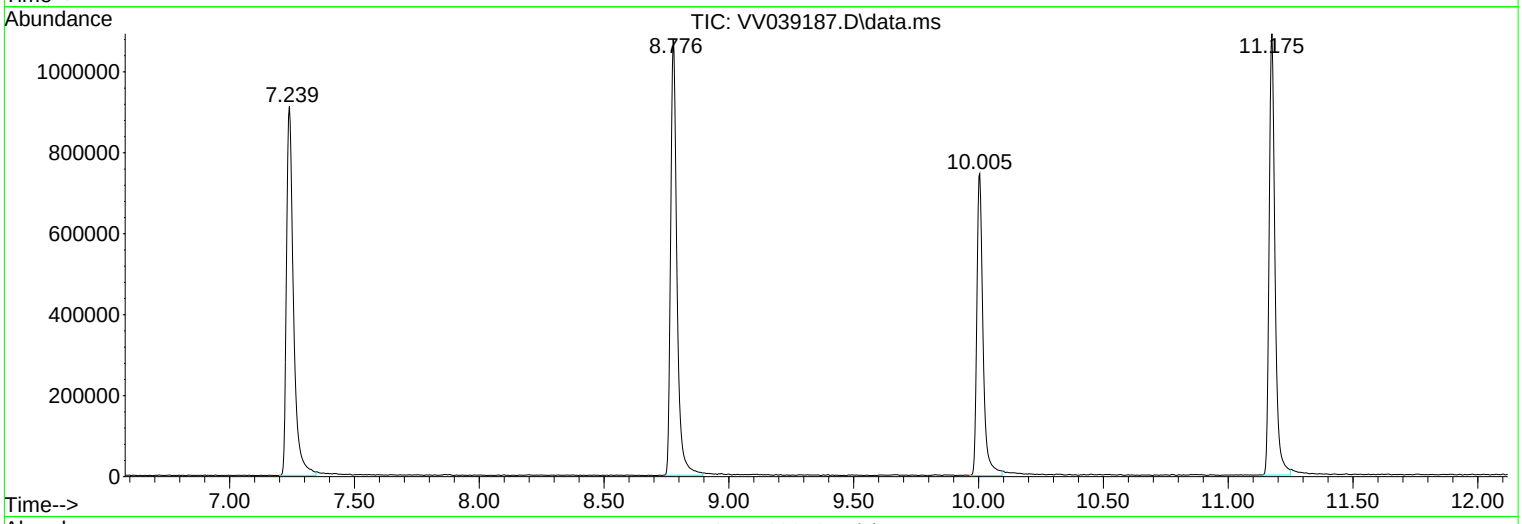
```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039187.D
Acq On    : 25 Sep 2025  17:25
Operator  : SY/MD
Sample    : Q3195-23
Misc      : 5.0mL/MSVOA_V/WATER
ALS Vial  : 21   Sample Multiplier: 1

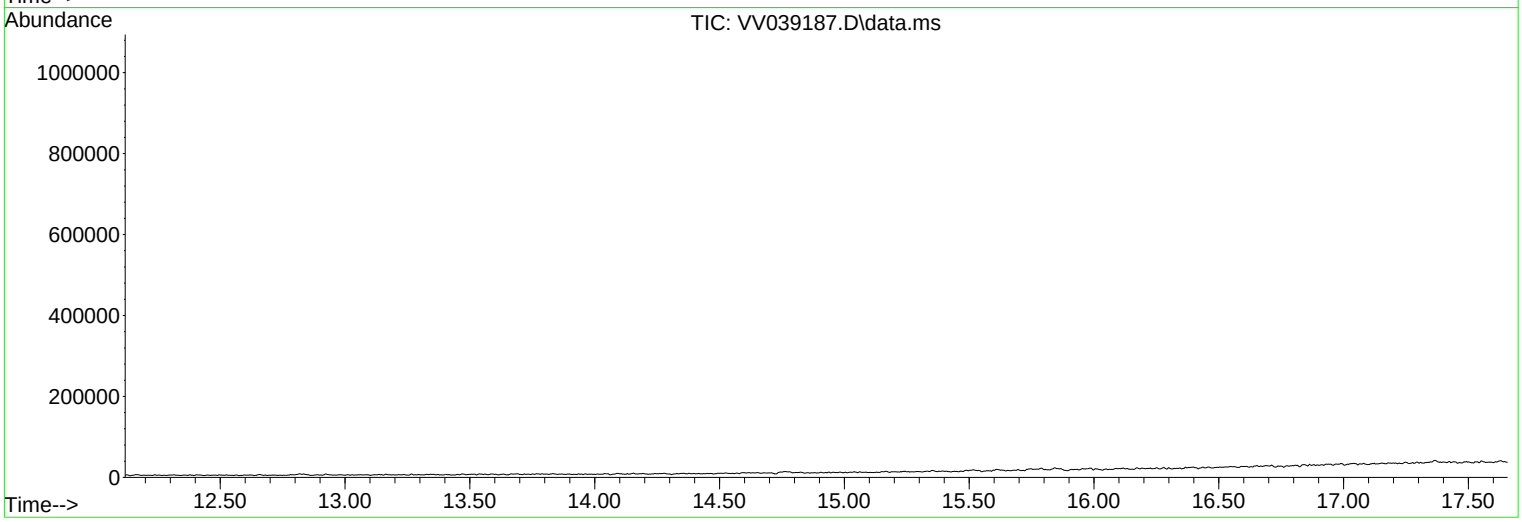
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title  : SW846 8260

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

**Instrument :**
MSVOA_V
**ClientSampleId :**
EB-01-091925



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039187.D
Acq On : 25 Sep 2025 17:25
Operator : SY/MD
Sample : Q3195-23
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
EB-01-091925

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039187.D
Acq On : 25 Sep 2025 17:25
Operator : SY/MD
Sample : Q3195-23
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 21 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
EB-01-091925

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/22/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | EB-02-092225 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-24 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039203.D | 1 | 09/26/25 11:36 | VV092625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.33 | U | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.25 | U | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 1.50 | U | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 0.27 | U | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 1.50 | U | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.25 | U | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.16 | U | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.090 | U | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | U | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.14 | U | 0.14 | 1.00 | ug/L |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/22/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | EB-02-092225 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-24 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039203.D | 1 | 09/26/25 11:36 | VV092625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.15 | U | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | U | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | U | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.53 | U | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 54.6 | | 74 - 125 | 109% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.9 | | 75 - 124 | 102% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 45.7 | | 86 - 113 | 91% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 44.5 | | 77 - 121 | 89% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 509000 | 4.6 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 912000 | 5.535 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 889000 | 8.776 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 433000 | 11.172 | | | |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/22/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | EB-02-092225 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-24 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039203.D | 1 | 09/26/25 11:36 | VV092625 |

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039203.D
Acq On : 26 Sep 2025 11:36
Operator : SY/MD
Sample : Q3195-24
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
EB-02-092225

Quant Time: Sep 27 02:52:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

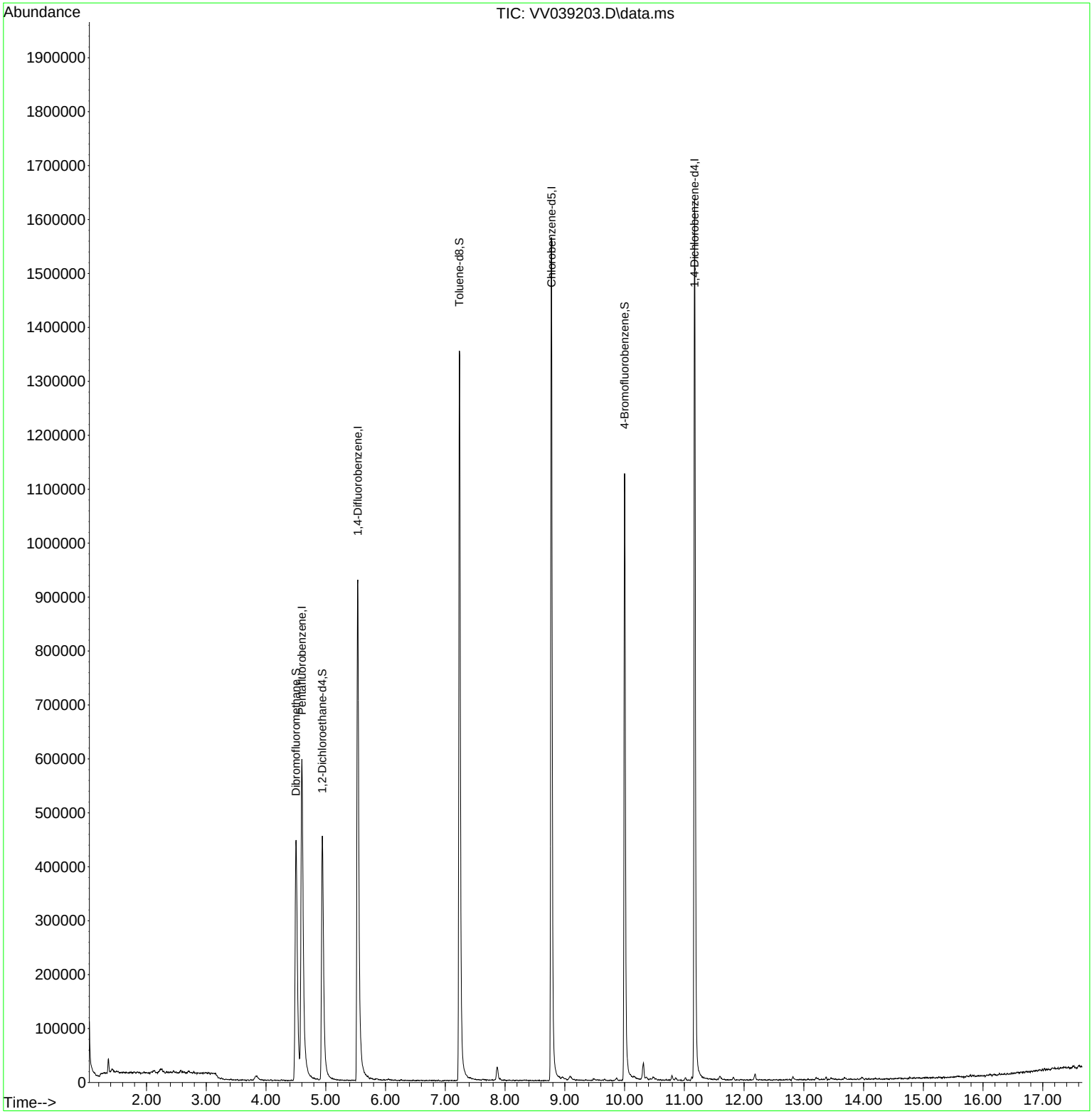
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.600 | 168 | 509169 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.535 | 114 | 912297 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.776 | 117 | 888919 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.172 | 152 | 432706 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.941 | 65 | 402670 | 54.642 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 109.280% | | | |
| 35) Dibromofluoromethane | 4.503 | 113 | 372970 | 50.854 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 101.700% | | | |
| 50) Toluene-d8 | 7.236 | 98 | 984633 | 45.711 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 91.420% | | | |
| 62) 4-Bromofluorobenzene | 10.002 | 95 | 394970 | 44.541 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 89.080% | | | |
| Target Compounds | | | | | | Qvalue |

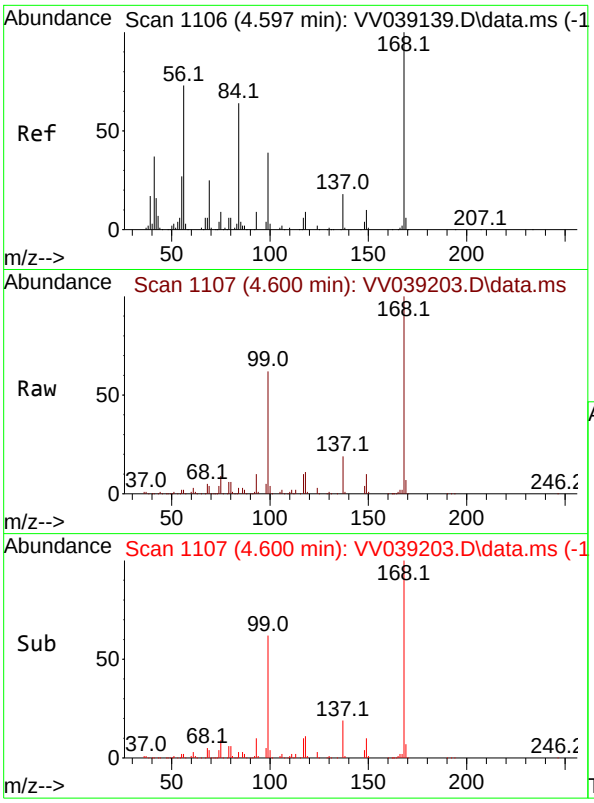
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039203.D
Acq On : 26 Sep 2025 11:36
Operator : SY/MD
Sample : Q3195-24
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
EB-02-092225

Quant Time: Sep 27 02:52:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



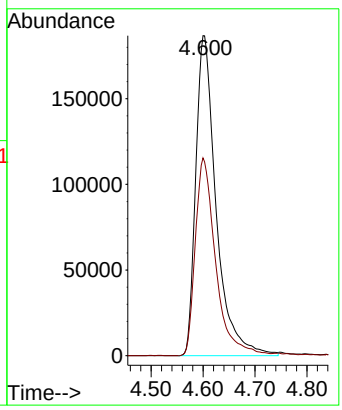


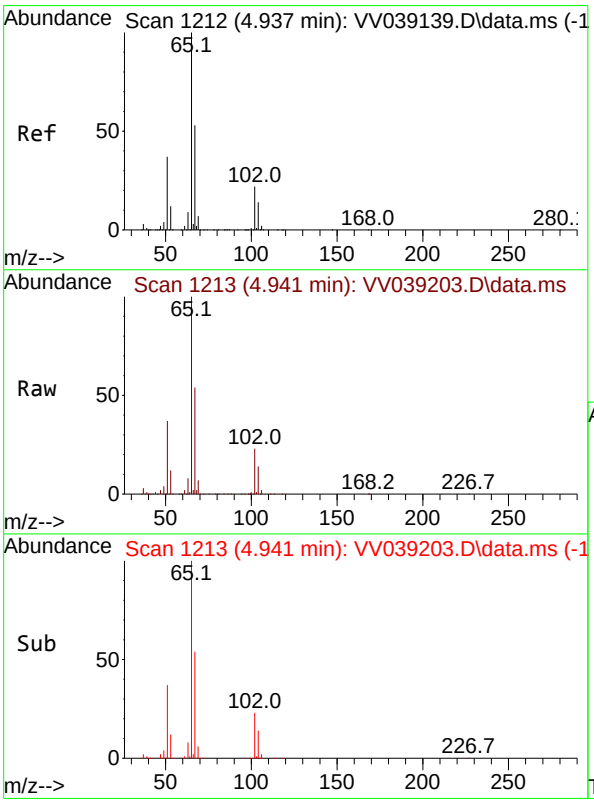

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039203.D
Acq: 26 Sep 2025 11:36

**Instrument :**
MSVOA_V
**ClientSampleId :**
EB-02-092225

Tgt Ion:168 Resp: 509169

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 61.8 | 49.6 | 74.4 |

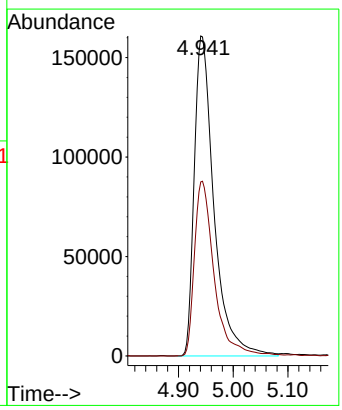


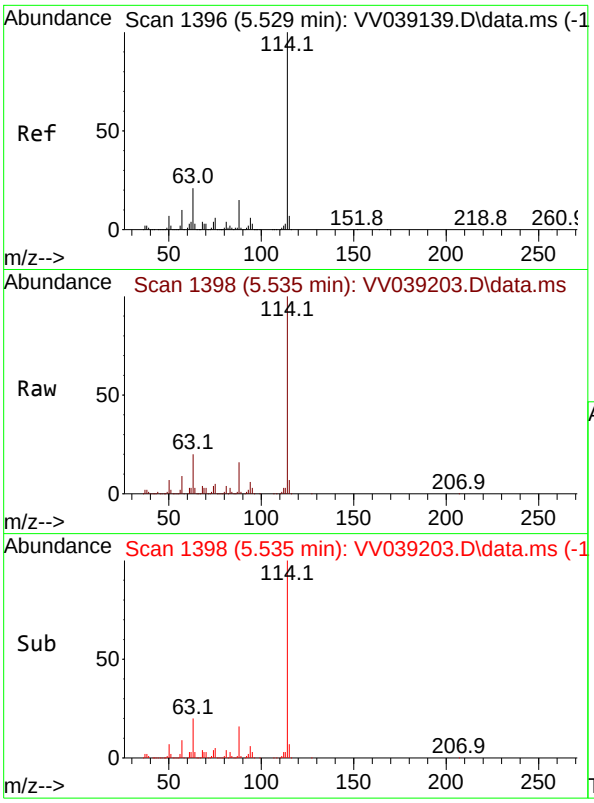




#33
1,2-Dichloroethane-d4
Concen: 54.642 ug/l
RT: 4.941 min Scan# 1213
Delta R.T. 0.003 min
Lab File: VV039203.D
Acq: 26 Sep 2025 11:36

Tgt Ion: 65 Resp: 402670

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 54.3 | 0.0 | 107.0 |



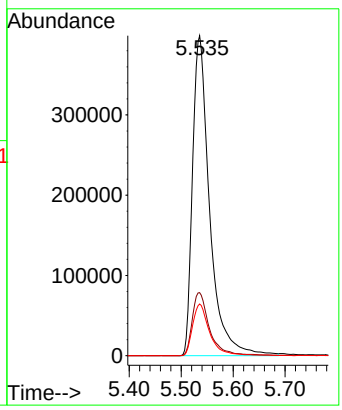


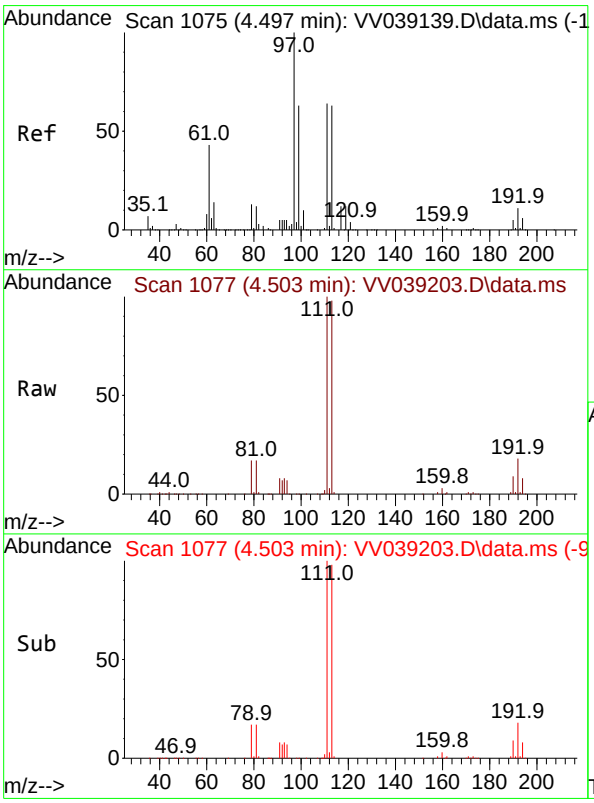

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039203.D
Acq: 26 Sep 2025 11:36

**Instrument :**
MSVOA_V
**ClientSampleId :**
EB-02-092225

Tgt Ion:114 Resp: 912297

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.7 | 0.0 | 42.6 |
| 88 | 16.1 | 0.0 | 30.8 |

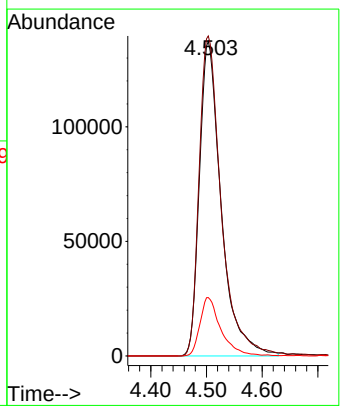


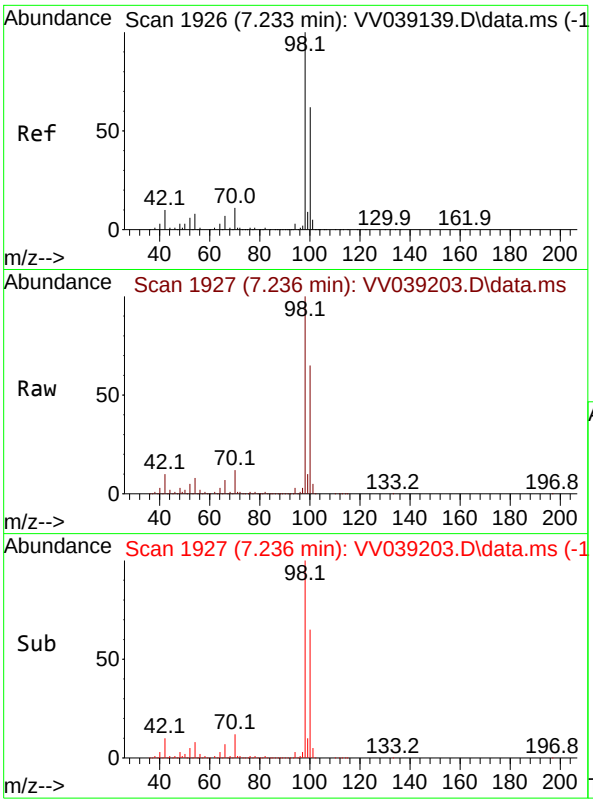




#35
Dibromofluoromethane
Concen: 50.854 ug/l
RT: 4.503 min Scan# 1077
Delta R.T. 0.006 min
Lab File: VV039203.D
Acq: 26 Sep 2025 11:36

Tgt Ion:113 Resp: 372970

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.2 | 82.4 | 123.6 |
| 192 | 17.8 | 13.8 | 20.8 |



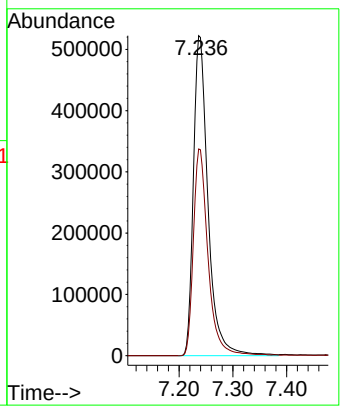


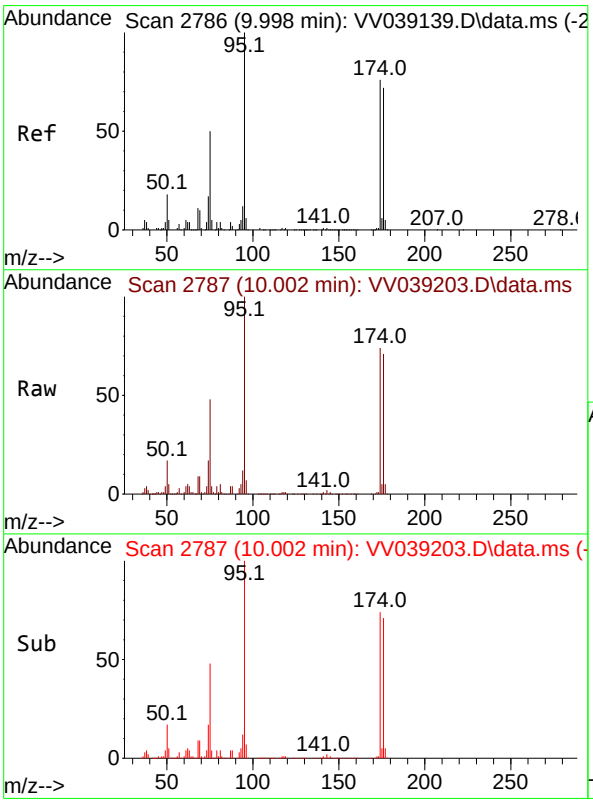

#50
Toluene-d8
Concen: 45.711 ug/l
RT: 7.236 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039203.D
Acq: 26 Sep 2025 11:36

**Instrument :**
MSVOA_V
**ClientSampleId :**
EB-02-092225

Tgt Ion: 98 Resp: 984633

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.9 | 52.2 | 78.2 |

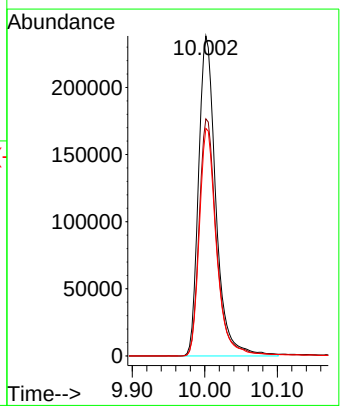


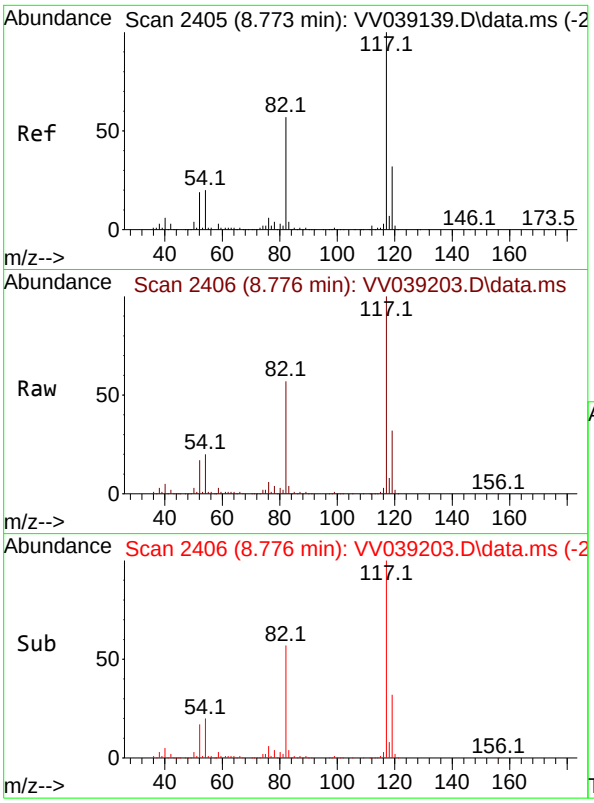




#62
4-Bromofluorobenzene
Concen: 44.541 ug/l
RT: 10.002 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039203.D
Acq: 26 Sep 2025 11:36

Tgt Ion: 95 Resp: 394970

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 74.3 | 0.0 | 150.4 |
| 176 | 70.5 | 0.0 | 144.2 |



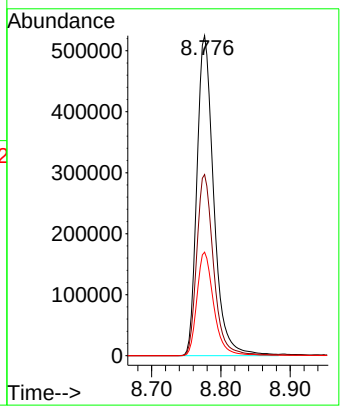


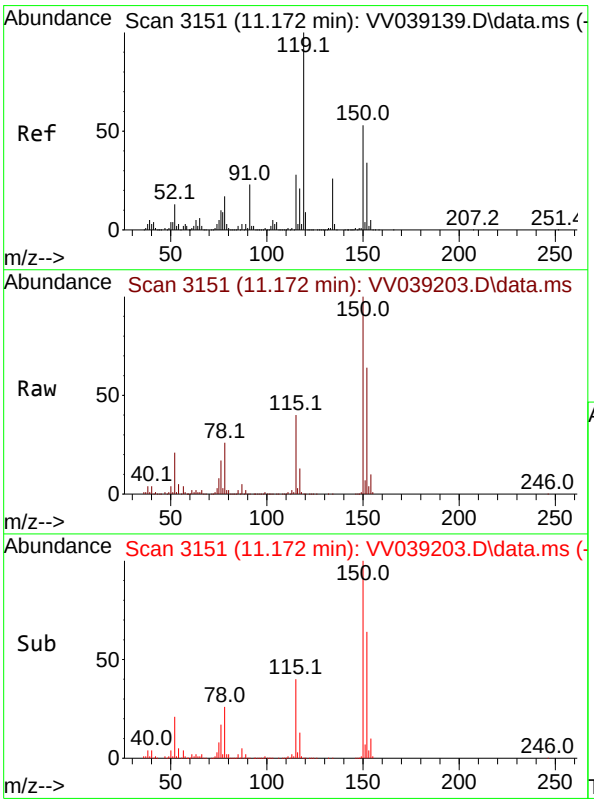

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039203.D
Acq: 26 Sep 2025 11:36

**Instrument :**
MSVOA_V
**ClientSampleId :**
EB-02-092225

Tgt Ion:117 Resp: 888919

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 56.6 | 45.4 | 68.2 |
| 119 | 32.4 | 25.6 | 38.4 |

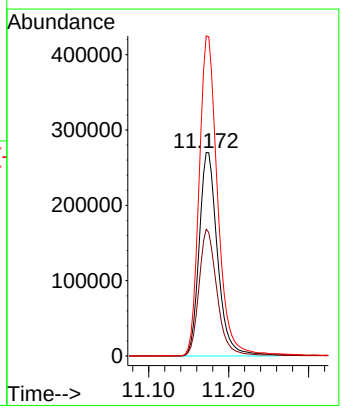



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039203.D
Acq: 26 Sep 2025 11:36

Tgt Ion:152 Resp: 432706

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 61.0 | 44.8 | 134.4 |
| 150 | 158.7 | 0.0 | 353.8 |



Sample Results: **VV039203.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039203.D
Acq On : 26 Sep 2025 11:36
Operator : SY/MD
Sample : Q3195-24
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
EB-02-092225

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039203.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.362 | 94 | 100 | 107 | rBV | 26500 | 33767 | 1.25% | 0.211% |
| 2 | 4.503 | 1061 | 1077 | 1095 | rBV | 445656 | 1166270 | 43.20% | 7.280% |
| 3 | 4.600 | 1096 | 1107 | 1151 | rVB | 590263 | 1625055 | 60.19% | 10.144% |
| 4 | 4.944 | 1202 | 1214 | 1257 | rBV | 451129 | 1130577 | 41.88% | 7.057% |
| 5 | 5.535 | 1387 | 1398 | 1439 | rBV | 928227 | 2154841 | 79.82% | 13.450% |
| 6 | 7.236 | 1916 | 1927 | 1971 | rBV | 1352802 | 2586810 | 95.82% | 16.147% |
| 7 | 7.870 | 2110 | 2124 | 2136 | rBV | 24187 | 49723 | 1.84% | 0.310% |
| 8 | 8.776 | 2392 | 2406 | 2441 | rBV | 1563714 | 2699654 | 100.00% | 16.851% |
| 9 | 10.002 | 2775 | 2787 | 2816 | rBV | 1125347 | 1882630 | 69.74% | 11.751% |
| 10 | 10.317 | 2872 | 2885 | 2892 | rBV4 | 30236 | 53833 | 1.99% | 0.336% |
| 11 | 11.172 | 3140 | 3151 | 3184 | rBV | 1630838 | 2637481 | 97.70% | 16.463% |

Sum of corrected areas: 16020641

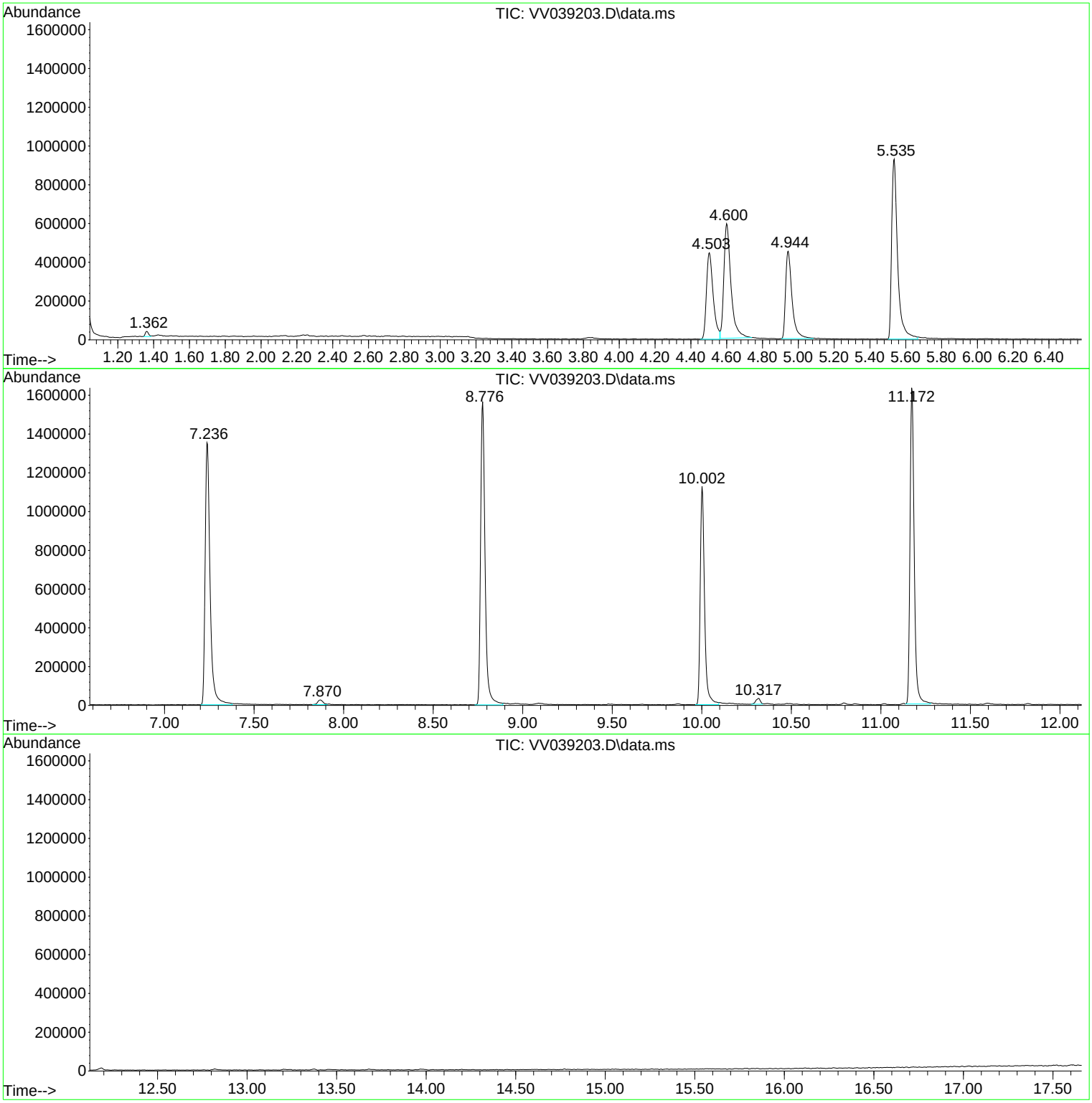
Sample Results: **VV039203.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039203.D
Acq On : 26 Sep 2025 11:36
Operator : SY/MD
Sample : Q3195-24
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
EB-02-092225

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039203.D
Acq On : 26 Sep 2025 11:36
Operator : SY/MD
Sample : Q3195-24
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
EB-02-092225

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039203.D
Acq On : 26 Sep 2025 11:36
Operator : SY/MD
Sample : Q3195-24
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
EB-02-092225

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/19/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | FB-01-091925 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-25 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039189.D | 1 | 09/25/25 18:10 | VV092525 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.33 | U | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.25 | U | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 1.50 | U | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 0.27 | U | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 1.50 | U | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.25 | U | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.16 | U | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.090 | U | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | U | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.14 | U | 0.14 | 1.00 | ug/L |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/19/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | FB-01-091925 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-25 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039189.D | 1 | 09/25/25 18:10 | VV092525 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.15 | U | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | U | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | U | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.53 | U | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 54.0 | | 74 - 125 | 108% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.0 | | 75 - 124 | 100% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 46.1 | | 86 - 113 | 92% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 45.0 | | 77 - 121 | 90% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 562000 | 4.603 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 1000000 | 5.535 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 978000 | 8.776 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 479000 | 11.175 | | | |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/19/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | FB-01-091925 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-25 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039189.D | 1 | 09/25/25 18:10 | VV092525 |

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

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

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

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039189.D
Acq On : 25 Sep 2025 18:10
Operator : SY/MD
Sample : Q3195-25
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
FB-01-091925

Quant Time: Sep 26 01:35:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

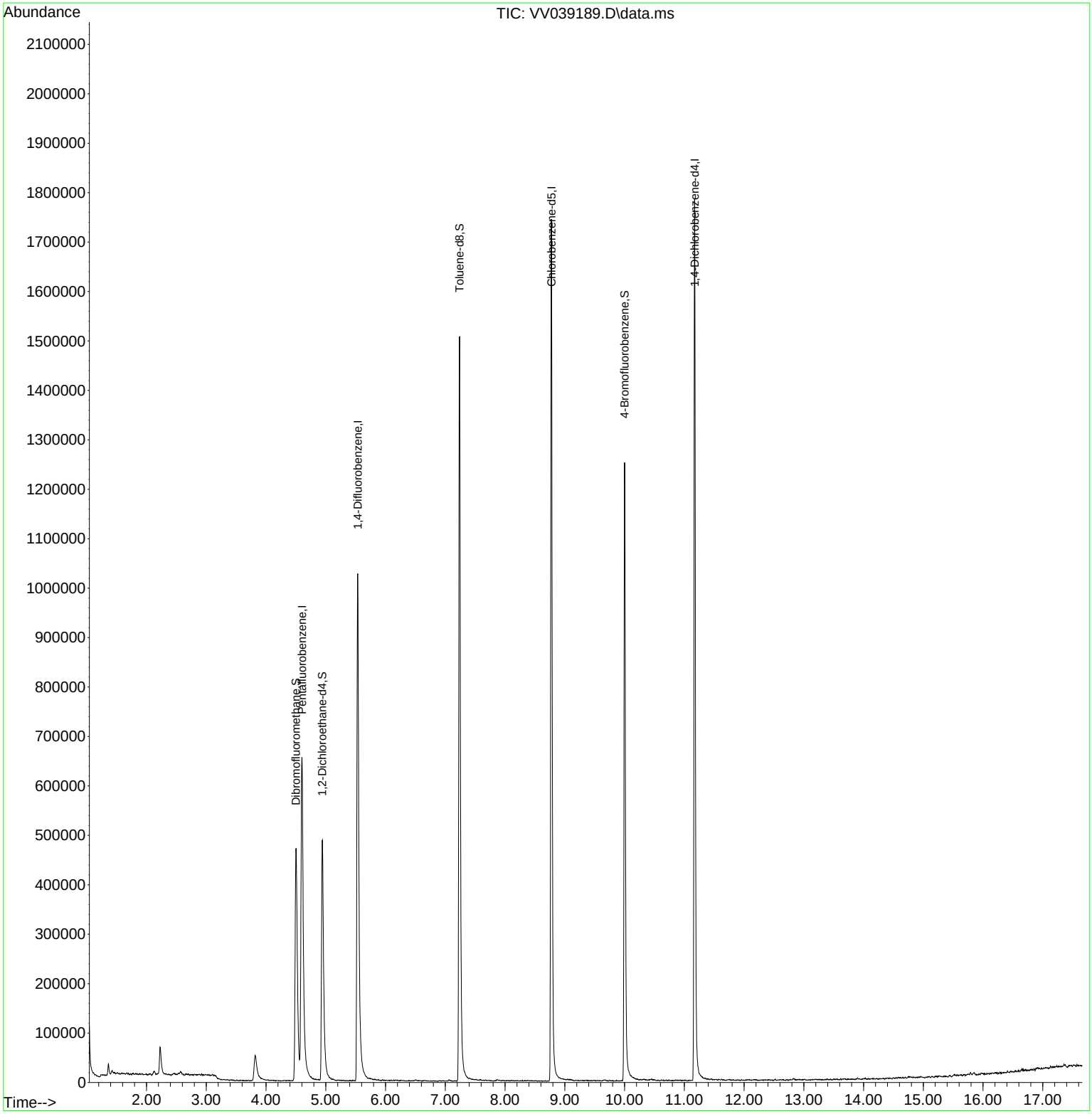
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.603 | 168 | 562300 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.535 | 114 | 1002078 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.776 | 117 | 977857 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.175 | 152 | 478832 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.941 | 65 | 439118 | 53.958 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 107.920% | | | |
| 35) Dibromofluoromethane | 4.500 | 113 | 402765 | 49.996 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 100.000% | | | |
| 50) Toluene-d8 | 7.240 | 98 | 1091605 | 46.137 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 92.280% | | | |
| 62) 4-Bromofluorobenzene | 10.001 | 95 | 438151 | 44.983 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 89.960% | | | |
| Target Compounds | | | | | | Qvalue |

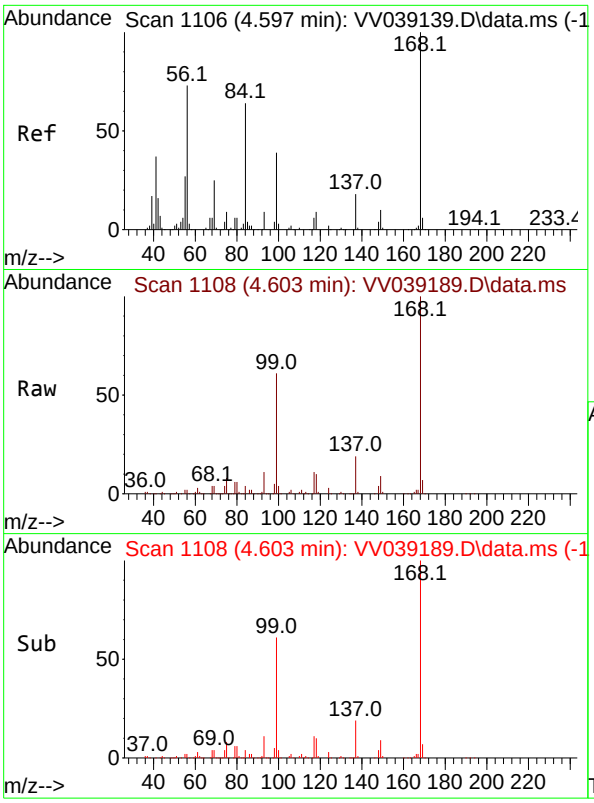
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039189.D
Acq On : 25 Sep 2025 18:10
Operator : SY/MD
Sample : Q3195-25
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
FB-01-091925

Quant Time: Sep 26 01:35:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



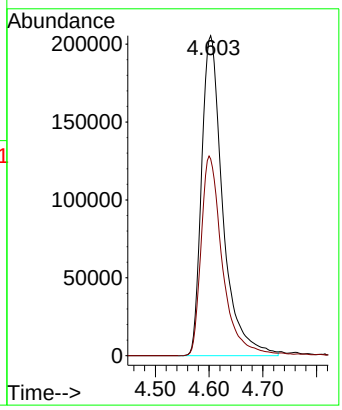


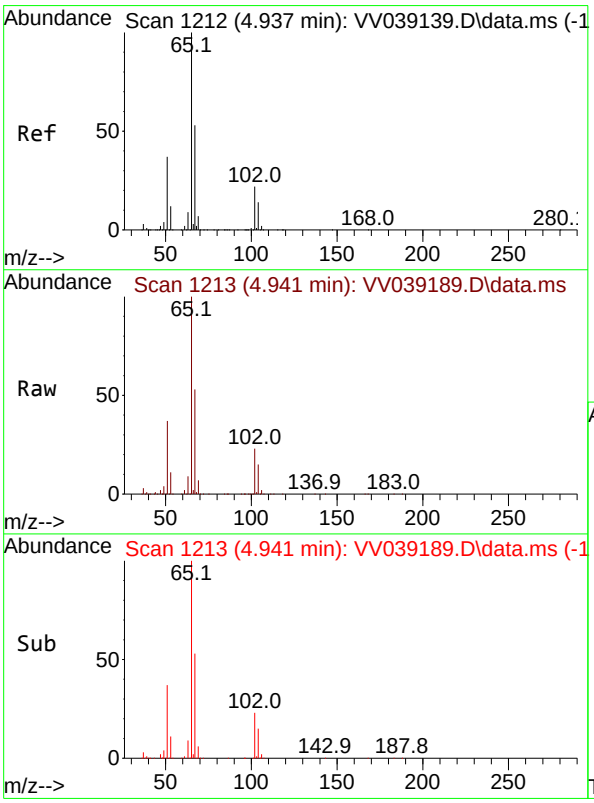

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 11
Delta R.T. 0.006 min
Lab File: VV039189.D
Acq: 25 Sep 2025 18:10

**Instrument :**
MSVOA_V
**ClientSampleId :**
FB-01-091925

Tgt Ion:168 Resp: 562300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 61.5 | 49.6 | 74.4 |

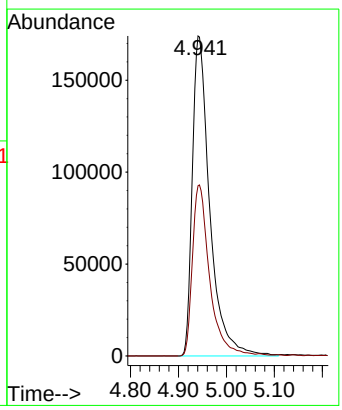


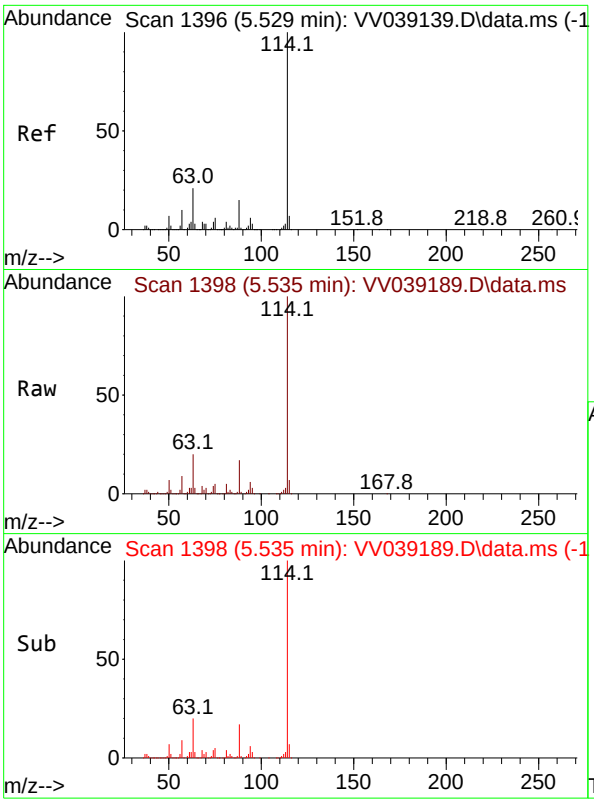




#33
1,2-Dichloroethane-d4
Concen: 53.958 ug/l
RT: 4.941 min Scan# 1213
Delta R.T. 0.003 min
Lab File: VV039189.D
Acq: 25 Sep 2025 18:10

Tgt Ion: 65 Resp: 439118

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.6 | 0.0 | 107.0 |



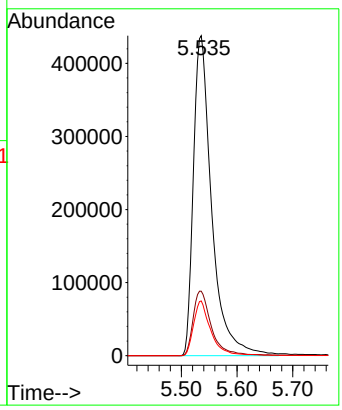


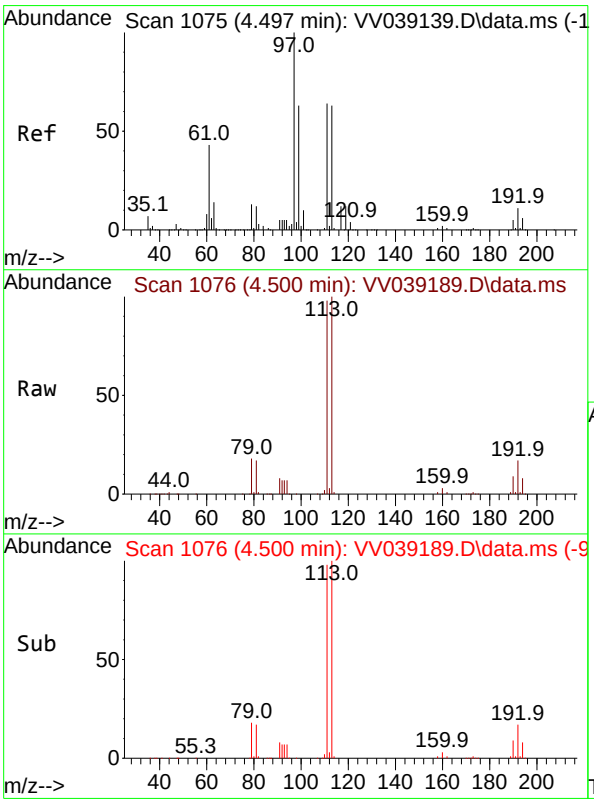

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039189.D
Acq: 25 Sep 2025 18:10

**Instrument :**
MSVOA_V
**ClientSampleId :**
FB-01-091925

Tgt Ion:114 Resp: 1002078

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.2 | 0.0 | 42.6 |
| 88 | 17.1 | 0.0 | 30.8 |

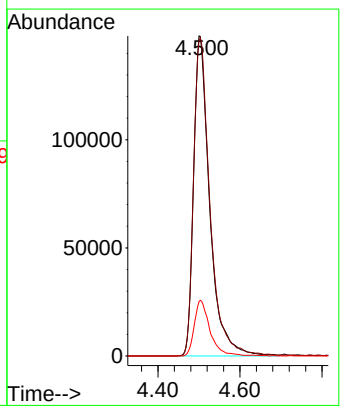


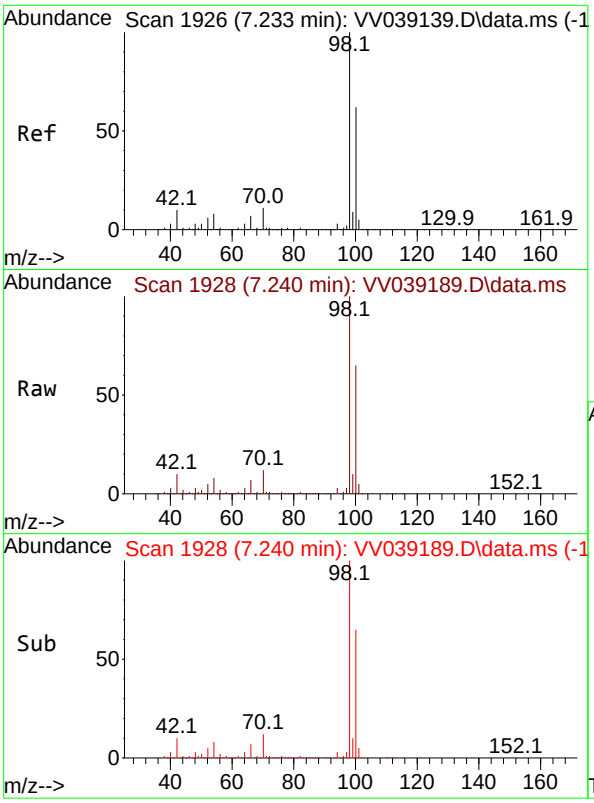




#35
Dibromofluoromethane
Concen: 49.996 ug/l
RT: 4.500 min Scan# 1076
Delta R.T. 0.003 min
Lab File: VV039189.D
Acq: 25 Sep 2025 18:10

Tgt Ion:113 Resp: 402765

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.1 | 82.4 | 123.6 |
| 192 | 16.9 | 13.8 | 20.8 |



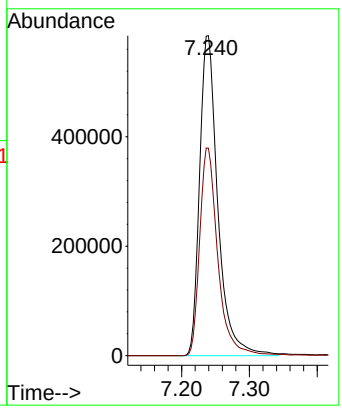


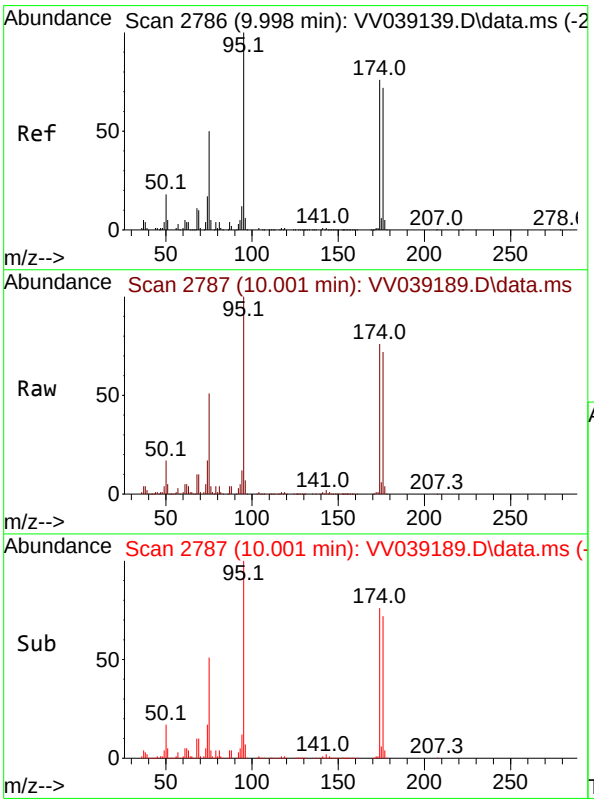

#50
Toluene-d8
Concen: 46.137 ug/l
RT: 7.240 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039189.D
Acq: 25 Sep 2025 18:10

**Instrument :**
MSVOA_V
**ClientSampleId :**
FB-01-091925

Tgt Ion: 98 Resp: 1091605

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.6 | 52.2 | 78.2 |

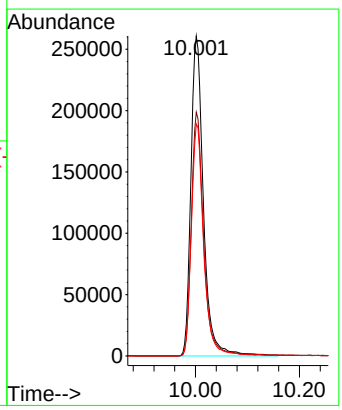


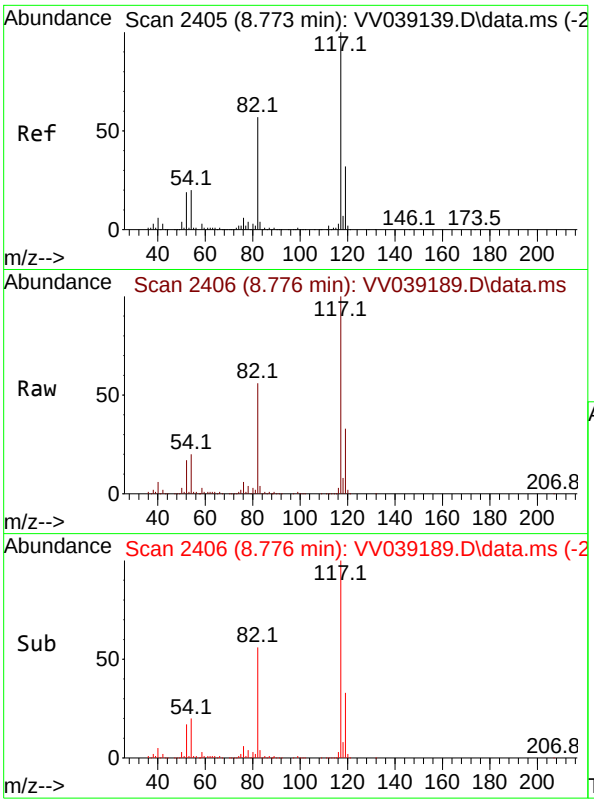




#62
4-Bromofluorobenzene
Concen: 44.983 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039189.D
Acq: 25 Sep 2025 18:10

Tgt Ion: 95 Resp: 438151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 75.2 | 0.0 | 150.4 |
| 176 | 70.8 | 0.0 | 144.2 |



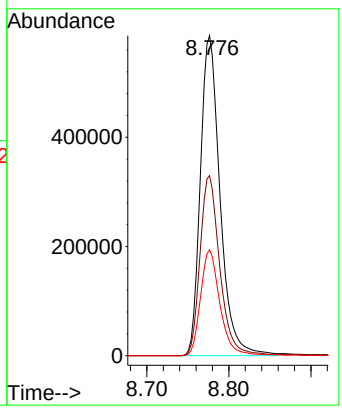


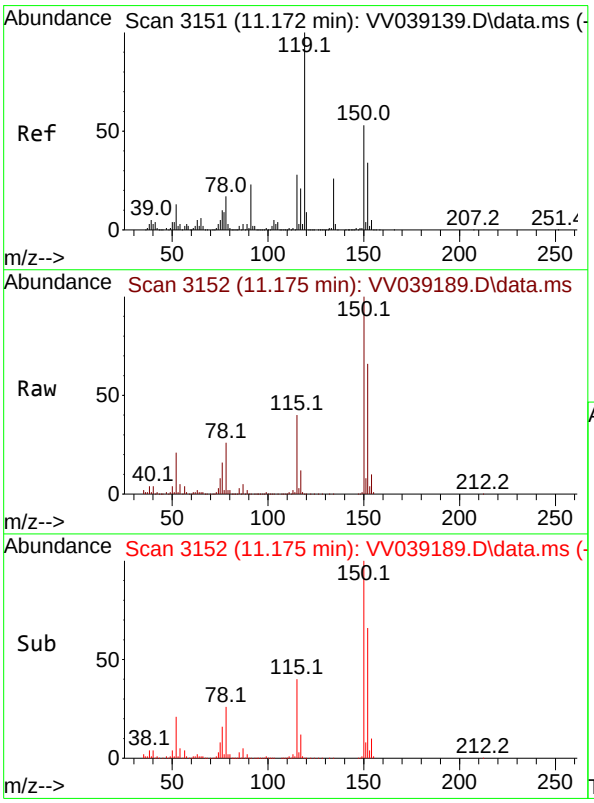

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039189.D
Acq: 25 Sep 2025 18:10

**Instrument :**
MSVOA_V
**ClientSampleId :**
FB-01-091925

Tgt Ion:117 Resp: 977857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 56.2 | 45.4 | 68.2 |
| 119 | 33.1 | 25.6 | 38.4 |

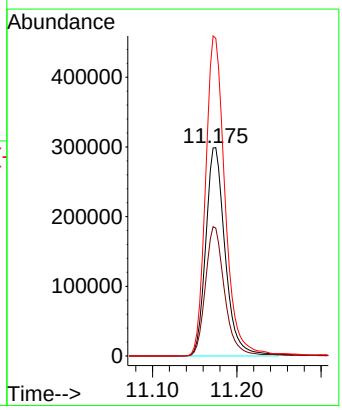



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039189.D
Acq: 25 Sep 2025 18:10

Tgt Ion:152 Resp: 478832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 61.1 | 44.8 | 134.4 |
| 150 | 153.6 | 0.0 | 353.8 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039189.D
Acq On : 25 Sep 2025 18:10
Operator : SY/MD
Sample : Q3195-25
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
FB-01-091925

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039189.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.362 | 93 | 100 | 111 | rBV | 22526 | 32651 | 1.10% | 0.185% |
| 2 | 2.227 | 361 | 369 | 390 | rVB2 | 54499 | 114168 | 3.85% | 0.646% |
| 3 | 3.818 | 848 | 864 | 884 | rBV2 | 51190 | 165504 | 5.58% | 0.937% |
| 4 | 4.503 | 1061 | 1077 | 1095 | rBV3 | 469869 | 1235176 | 41.66% | 6.990% |
| 5 | 4.600 | 1096 | 1107 | 1153 | rVB2 | 649031 | 1791995 | 60.44% | 10.141% |
| 6 | 4.944 | 1201 | 1214 | 1250 | rBV | 485529 | 1211504 | 40.86% | 6.856% |
| 7 | 5.535 | 1386 | 1398 | 1442 | rBV | 1026011 | 2368673 | 79.89% | 13.404% |
| 8 | 7.240 | 1914 | 1928 | 1954 | rBV | 1506644 | 2829473 | 95.43% | 16.012% |
| 9 | 8.776 | 2393 | 2406 | 2444 | rBV | 1743537 | 2965011 | 100.00% | 16.779% |
| 10 | 10.001 | 2775 | 2787 | 2820 | rBV | 1250997 | 2090657 | 70.51% | 11.831% |
| 11 | 11.172 | 3139 | 3151 | 3176 | rBV | 1783590 | 2866023 | 96.66% | 16.219% |

Sum of corrected areas: 17670835

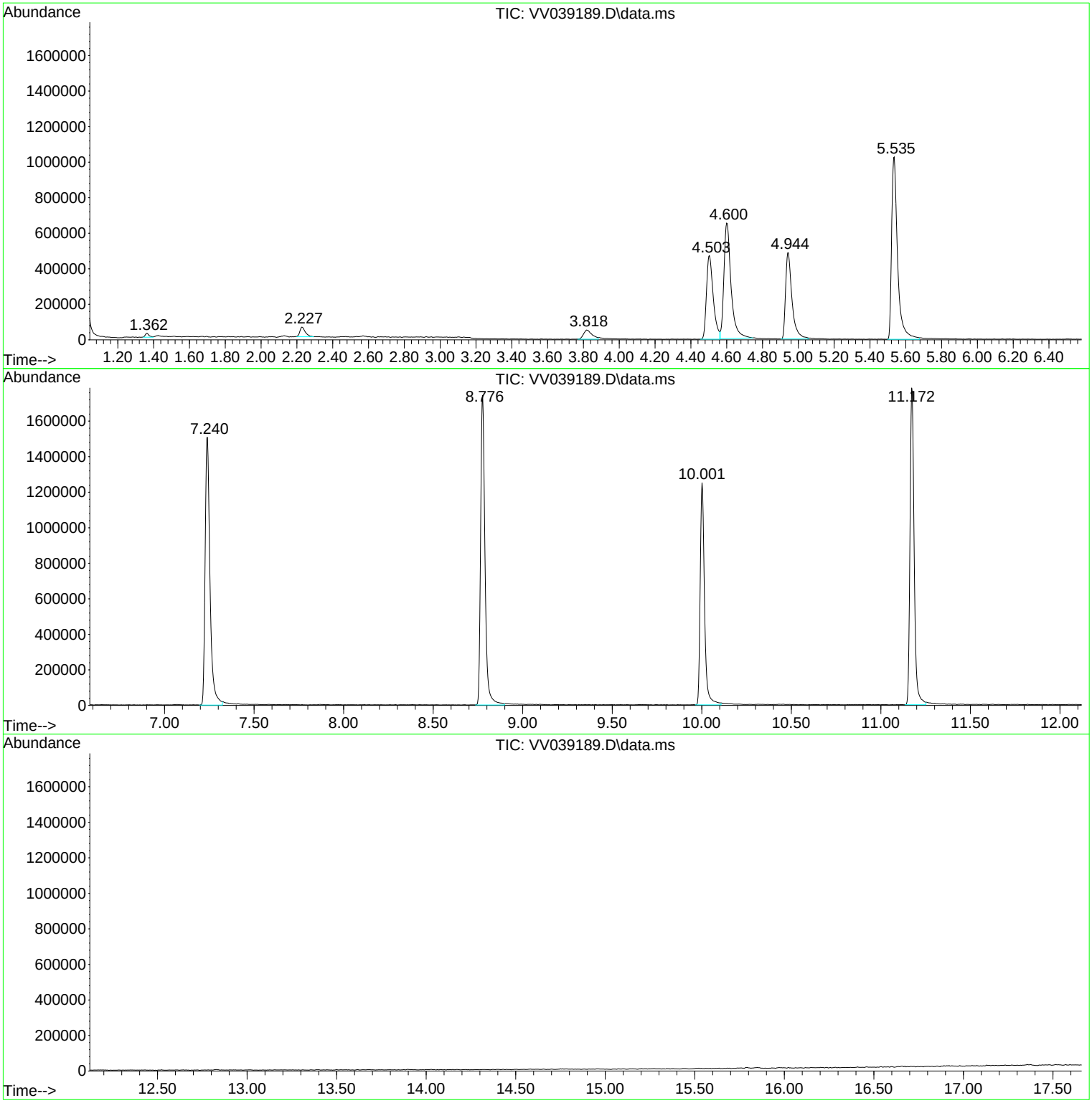
Sample Results: **VV039189.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039189.D
Acq On : 25 Sep 2025 18:10
Operator : SY/MD
Sample : Q3195-25
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
FB-01-091925

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039189.D
Acq On : 25 Sep 2025 18:10
Operator : SY/MD
Sample : Q3195-25
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
FB-01-091925

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039189.D
Acq On : 25 Sep 2025 18:10
Operator : SY/MD
Sample : Q3195-25
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 23 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
FB-01-091925

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/22/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | FB-02-092225 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-26 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039190.D | 1 | 09/25/25 18:32 | VV092525 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.33 | U | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.25 | U | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 1.50 | U | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 0.27 | U | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 1.50 | U | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.25 | U | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.16 | U | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.090 | U | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | U | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.14 | U | 0.14 | 1.00 | ug/L |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/22/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | FB-02-092225 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-26 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039190.D | 1 | 09/25/25 18:32 | VV092525 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.15 | U | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | U | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | U | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.53 | U | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 54.1 | | 74 - 125 | 108% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 49.9 | | 75 - 124 | 100% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 46.0 | | 86 - 113 | 92% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 43.9 | | 77 - 121 | 88% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 558000 | 4.603 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 1000000 | 5.532 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 984000 | 8.776 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 478000 | 11.175 | | | |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/22/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | FB-02-092225 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-26 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039190.D | 1 | 09/25/25 18:32 | VV092525 |

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039190.D
Acq On : 25 Sep 2025 18:32
Operator : SY/MD
Sample : Q3195-26
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
FB-02-092225

Quant Time: Sep 26 01:36:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.603 | 168 | 557526 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.532 | 114 | 1004933 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.776 | 117 | 984426 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.175 | 152 | 478455 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.941 | 65 | 436755 | 54.127 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 108.260% | | | |
| 35) Dibromofluoromethane | 4.503 | 113 | 403467 | 49.941 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 99.880% | | | |
| 50) Toluene-d8 | 7.236 | 98 | 1090916 | 45.977 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 91.960% | | | |
| 62) 4-Bromofluorobenzene | 10.001 | 95 | 429135 | 43.933 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 87.860% | | | |

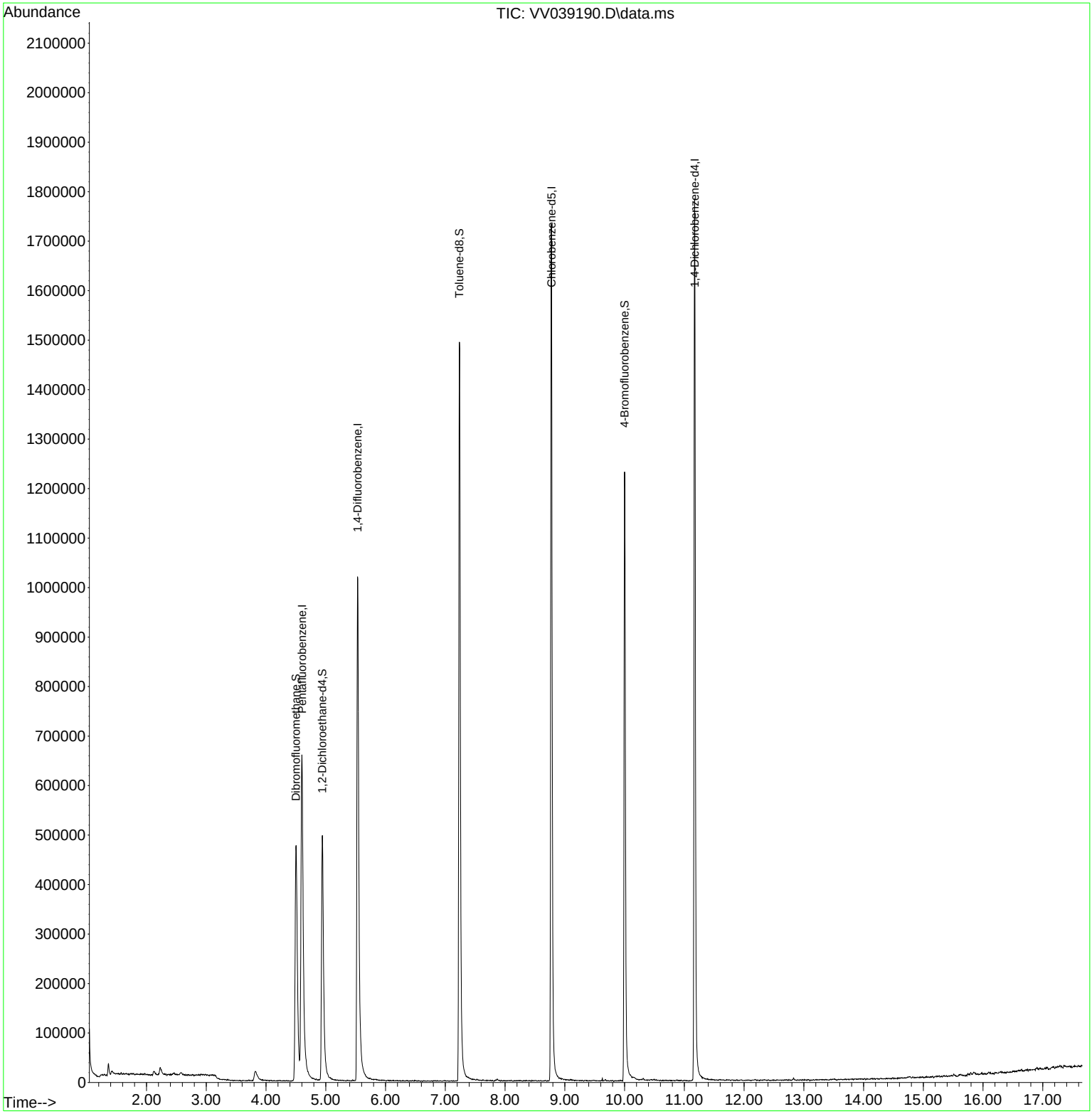
Target Compounds Qvalue

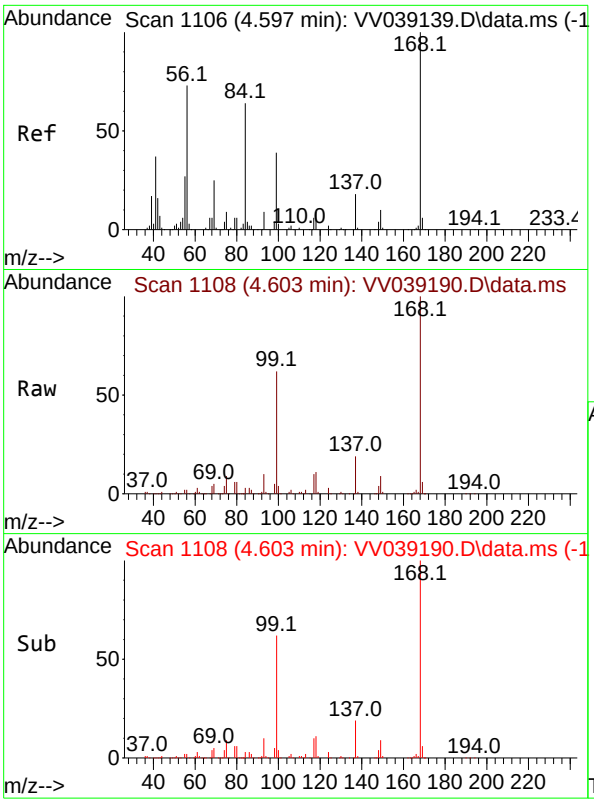
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039190.D
Acq On : 25 Sep 2025 18:32
Operator : SY/MD
Sample : Q3195-26
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
FB-02-092225

Quant Time: Sep 26 01:36:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



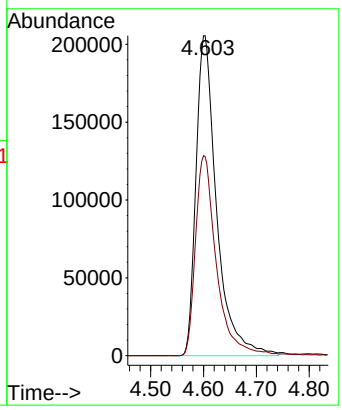


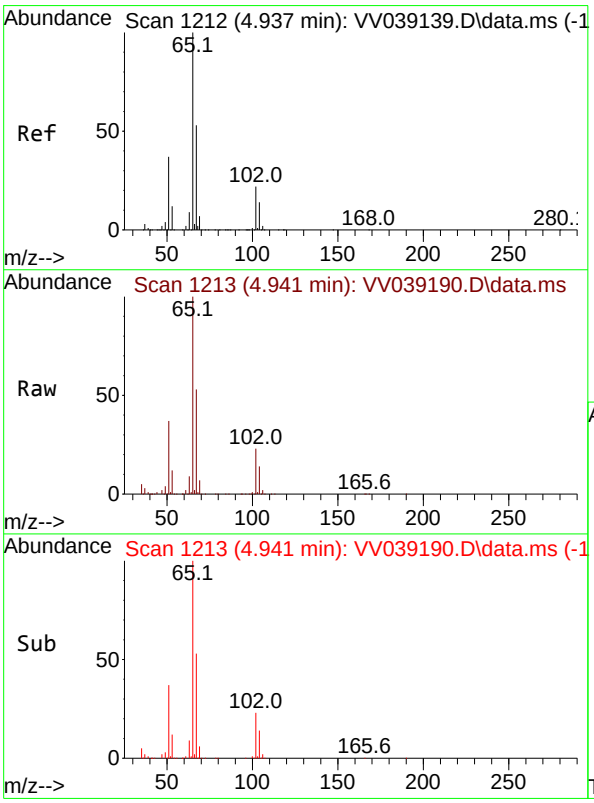

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 11
Delta R.T. 0.006 min
Lab File: VV039190.D
Acq: 25 Sep 2025 18:32

**Instrument :**
MSVOA_V
**ClientSampleId :**
FB-02-092225

Tgt Ion:168 Resp: 557526

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 62.3 | 49.6 | 74.4 |

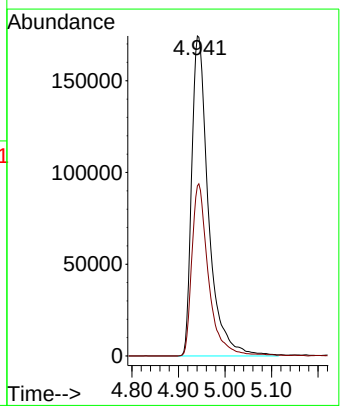


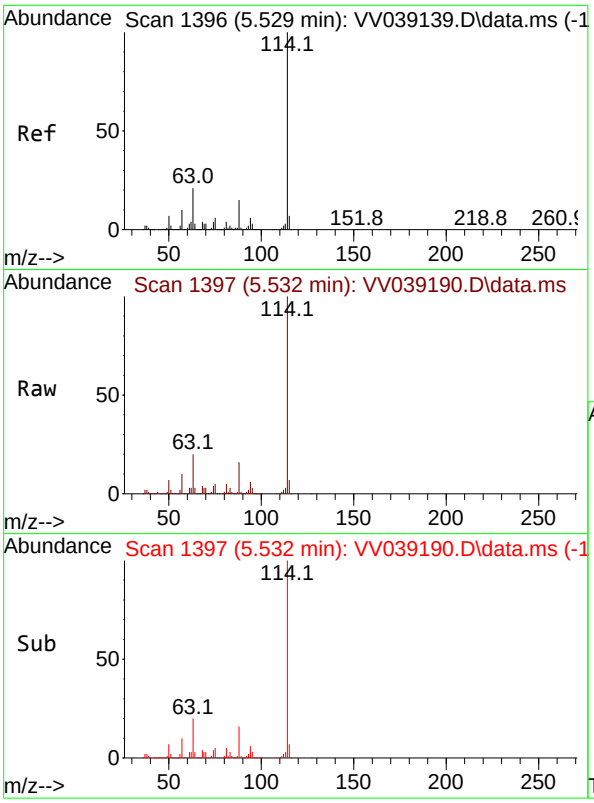




#33
1,2-Dichloroethane-d4
Concen: 54.127 ug/l
RT: 4.941 min Scan# 1213
Delta R.T. 0.003 min
Lab File: VV039190.D
Acq: 25 Sep 2025 18:32

Tgt Ion: 65 Resp: 436755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.9 | 0.0 | 107.0 |



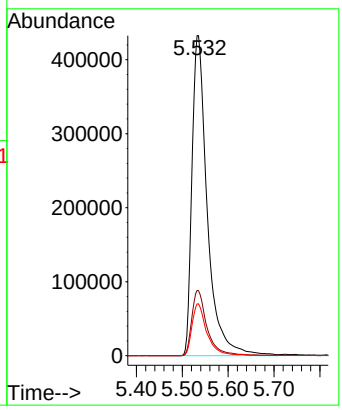


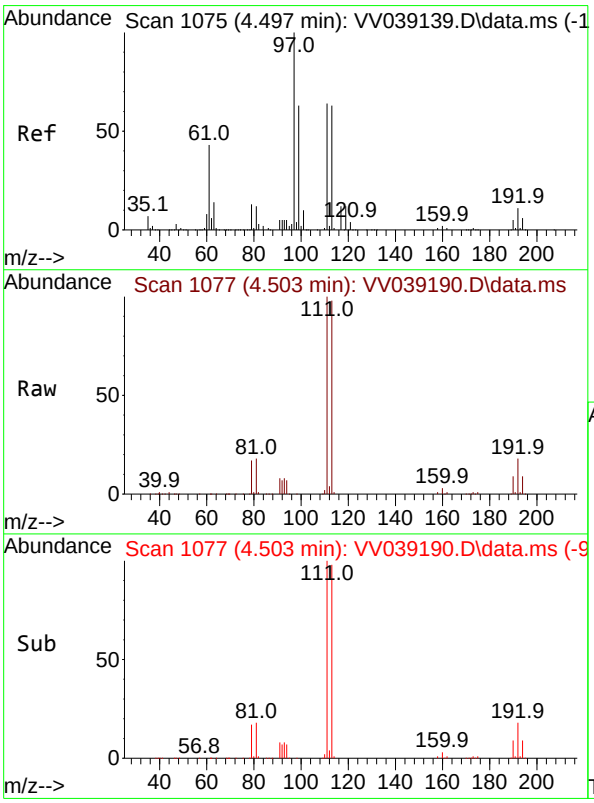

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039190.D
Acq: 25 Sep 2025 18:32

**Instrument :**
MSVOA_V
**ClientSampleId :**
FB-02-092225

Tgt Ion:114 Resp: 1004933

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.4 | 0.0 | 42.6 |
| 88 | 16.1 | 0.0 | 30.8 |

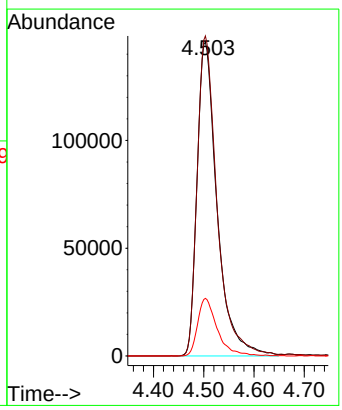


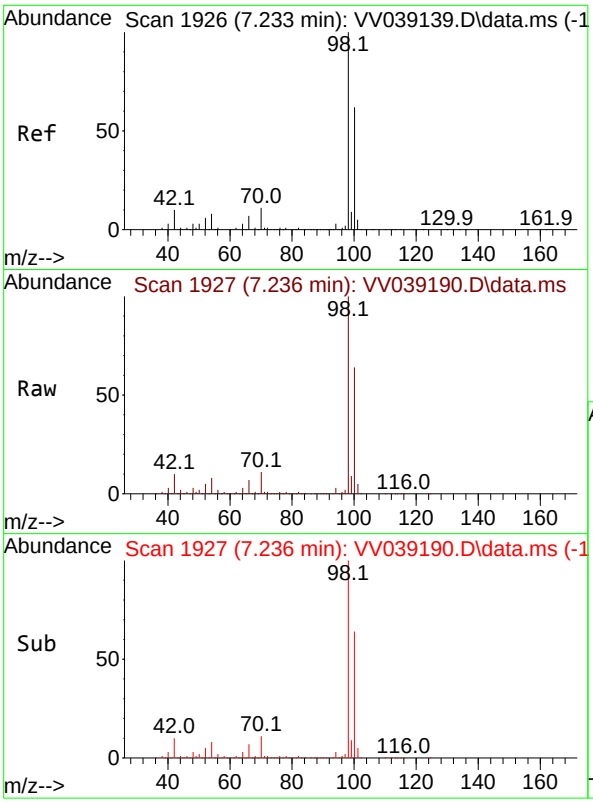




#35
Dibromofluoromethane
Concen: 49.941 ug/l
RT: 4.503 min Scan# 1077
Delta R.T. 0.006 min
Lab File: VV039190.D
Acq: 25 Sep 2025 18:32

Tgt Ion:113 Resp: 403467

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.0 | 82.4 | 123.6 |
| 192 | 17.9 | 13.8 | 20.8 |



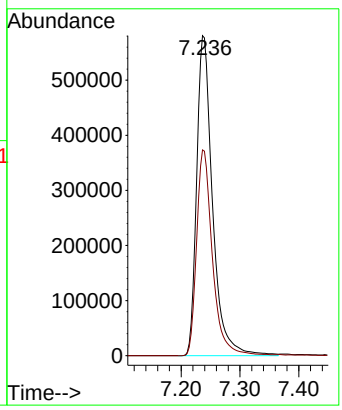


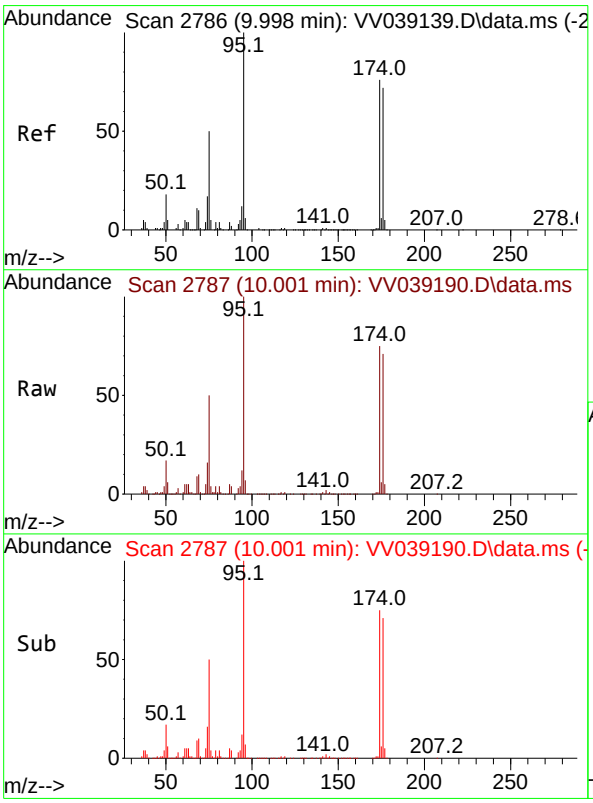

#50
Toluene-d8
Concen: 45.977 ug/l
RT: 7.236 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039190.D
Acq: 25 Sep 2025 18:32

**Instrument :**
MSVOA_V
**ClientSampleId :**
FB-02-092225

Tgt Ion: 98 Resp: 1090916

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.2 | 52.2 | 78.2 |

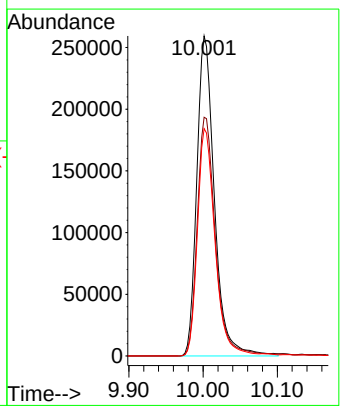


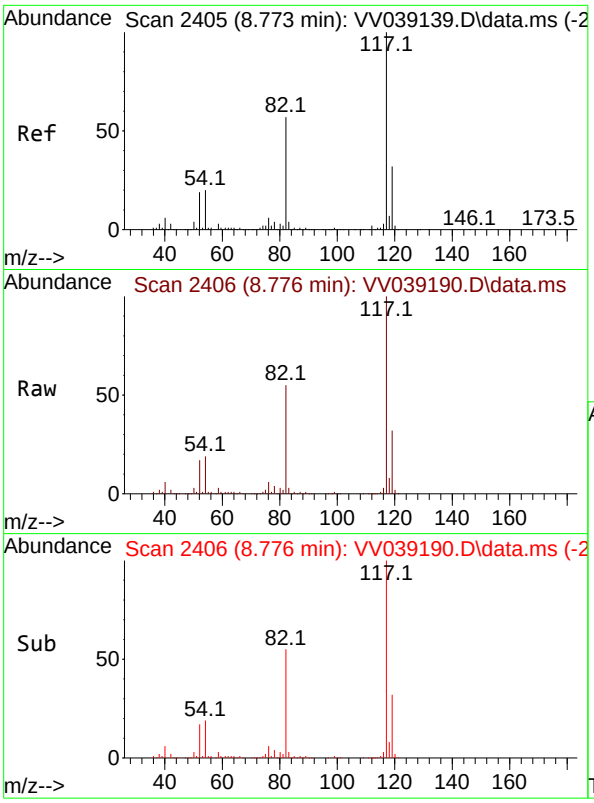




#62
4-Bromofluorobenzene
Concen: 43.933 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039190.D
Acq: 25 Sep 2025 18:32

Tgt Ion: 95 Resp: 429135

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 76.8 | 0.0 | 150.4 |
| 176 | 71.4 | 0.0 | 144.2 |



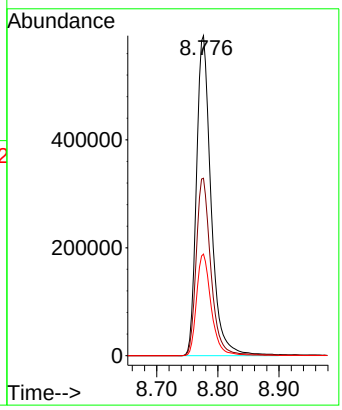


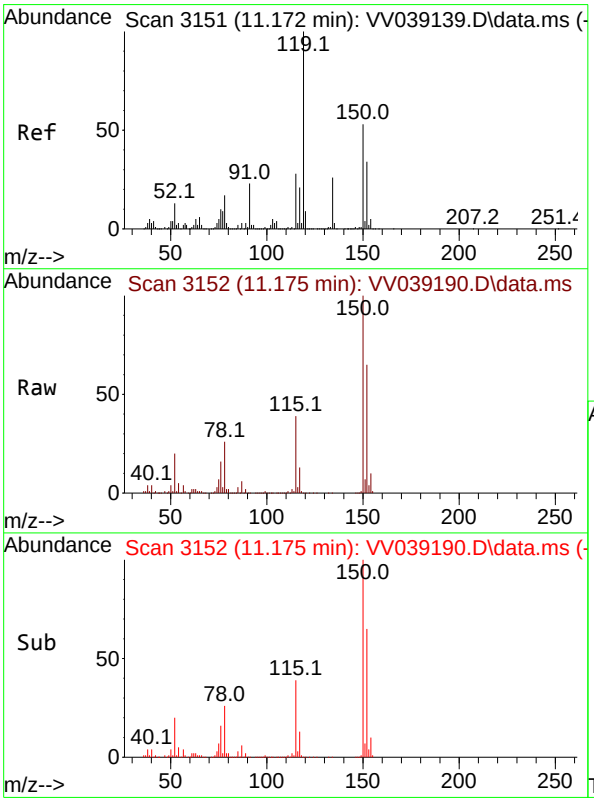

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039190.D
Acq: 25 Sep 2025 18:32

**Instrument :**
MSVOA_V
**ClientSampleId :**
FB-02-092225

Tgt Ion:117 Resp: 984426

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 55.4 | 45.4 | 68.2 |
| 119 | 31.7 | 25.6 | 38.4 |

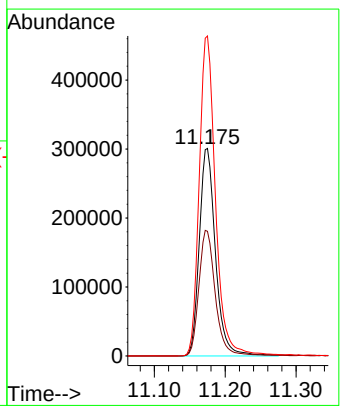



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039190.D
Acq: 25 Sep 2025 18:32

Tgt Ion:152 Resp: 478455

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 61.5 | 44.8 | 134.4 |
| 150 | 154.9 | 0.0 | 353.8 |



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039190.D
Acq On : 25 Sep 2025 18:32
Operator : SY/MD
Sample : Q3195-26
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
FB-02-092225

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039190.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.362 | 93 | 100 | 111 | rBV | 24244 | 36995 | 1.26% | 0.213% |
| 2 | 3.822 | 852 | 865 | 886 | rBV | 18947 | 67122 | 2.29% | 0.387% |
| 3 | 4.503 | 1059 | 1077 | 1095 | rBV | 475618 | 1246790 | 42.57% | 7.186% |
| 4 | 4.600 | 1095 | 1107 | 1138 | rVB | 644554 | 1708643 | 58.33% | 9.848% |
| 5 | 4.944 | 1201 | 1214 | 1252 | rBV | 493739 | 1211039 | 41.35% | 6.980% |
| 6 | 5.532 | 1386 | 1397 | 1453 | rBV | 1018078 | 2366073 | 80.78% | 13.638% |
| 7 | 7.236 | 1916 | 1927 | 1962 | rBV | 1493191 | 2831580 | 96.67% | 16.321% |
| 8 | 8.776 | 2392 | 2406 | 2437 | rBV | 1731734 | 2929097 | 100.00% | 16.883% |
| 9 | 10.001 | 2777 | 2787 | 2816 | rBV | 1230398 | 2068711 | 70.63% | 11.924% |
| 10 | 11.172 | 3135 | 3151 | 3185 | rBV | 1781979 | 2883324 | 98.44% | 16.619% |

Sum of corrected areas: 17349374

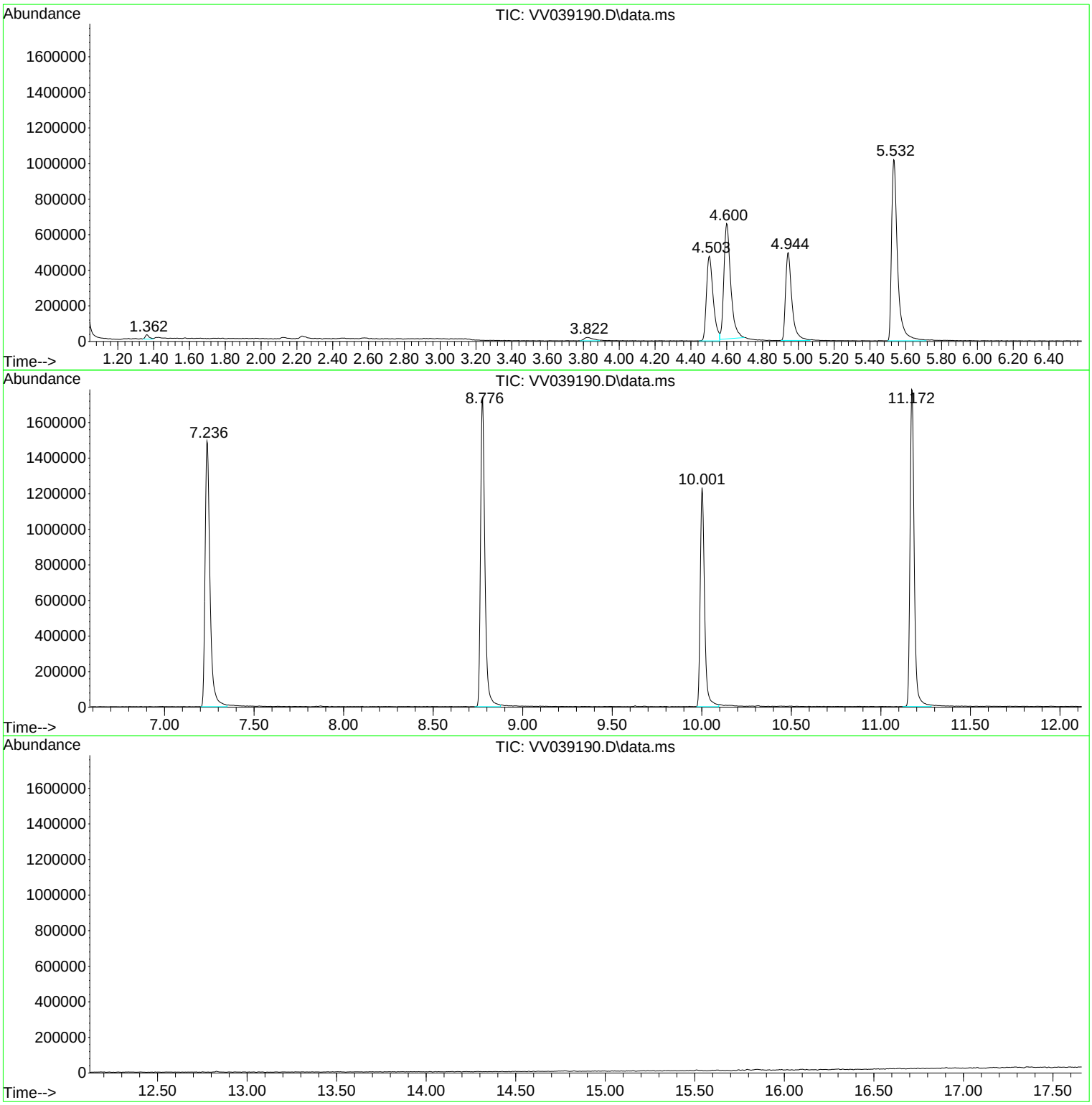
Sample Results: **VV039190.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039190.D
Acq On : 25 Sep 2025 18:32
Operator : SY/MD
Sample : Q3195-26
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
FB-02-092225

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039190.D
Acq On : 25 Sep 2025 18:32
Operator : SY/MD
Sample : Q3195-26
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
FB-02-092225

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039190.D
Acq On : 25 Sep 2025 18:32
Operator : SY/MD
Sample : Q3195-26
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 24 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
FB-02-092225

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/15/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | TB-01-091525 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-27 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039191.D | 1 | 09/25/25 18:55 | VV092525 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.33 | U | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.25 | U | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 1.50 | U | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 0.27 | U | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 1.50 | U | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.25 | U | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.16 | U | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.090 | U | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | U | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.14 | U | 0.14 | 1.00 | ug/L |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/15/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | TB-01-091525 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-27 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039191.D | 1 | 09/25/25 18:55 | VV092525 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.15 | U | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | U | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | U | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.53 | U | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 54.5 | | 74 - 125 | 109% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.8 | | 75 - 124 | 102% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 45.8 | | 86 - 113 | 92% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 44.0 | | 77 - 121 | 88% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 467000 | 4.603 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 829000 | 5.535 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 809000 | 8.776 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 385000 | 11.175 | | | |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/15/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | TB-01-091525 | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-27 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039191.D | 1 | 09/25/25 18:55 | VV092525 |

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

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

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

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039191.D
Acq On : 25 Sep 2025 18:55
Operator : SY/MD
Sample : Q3195-27
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
TB-01-091525

Quant Time: Sep 26 01:36:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.603 | 168 | 466916 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.535 | 114 | 828915 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.776 | 117 | 809498 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.175 | 152 | 384637 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.944 | 65 | 368405 | 54.517 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 109.040% | | | |
| 35) Dibromofluoromethane | 4.503 | 113 | 338536 | 50.802 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 101.600% | | | |
| 50) Toluene-d8 | 7.239 | 98 | 895565 | 45.758 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 91.520% | | | |
| 62) 4-Bromofluorobenzene | 10.001 | 95 | 354206 | 43.962 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 87.920% | | | |

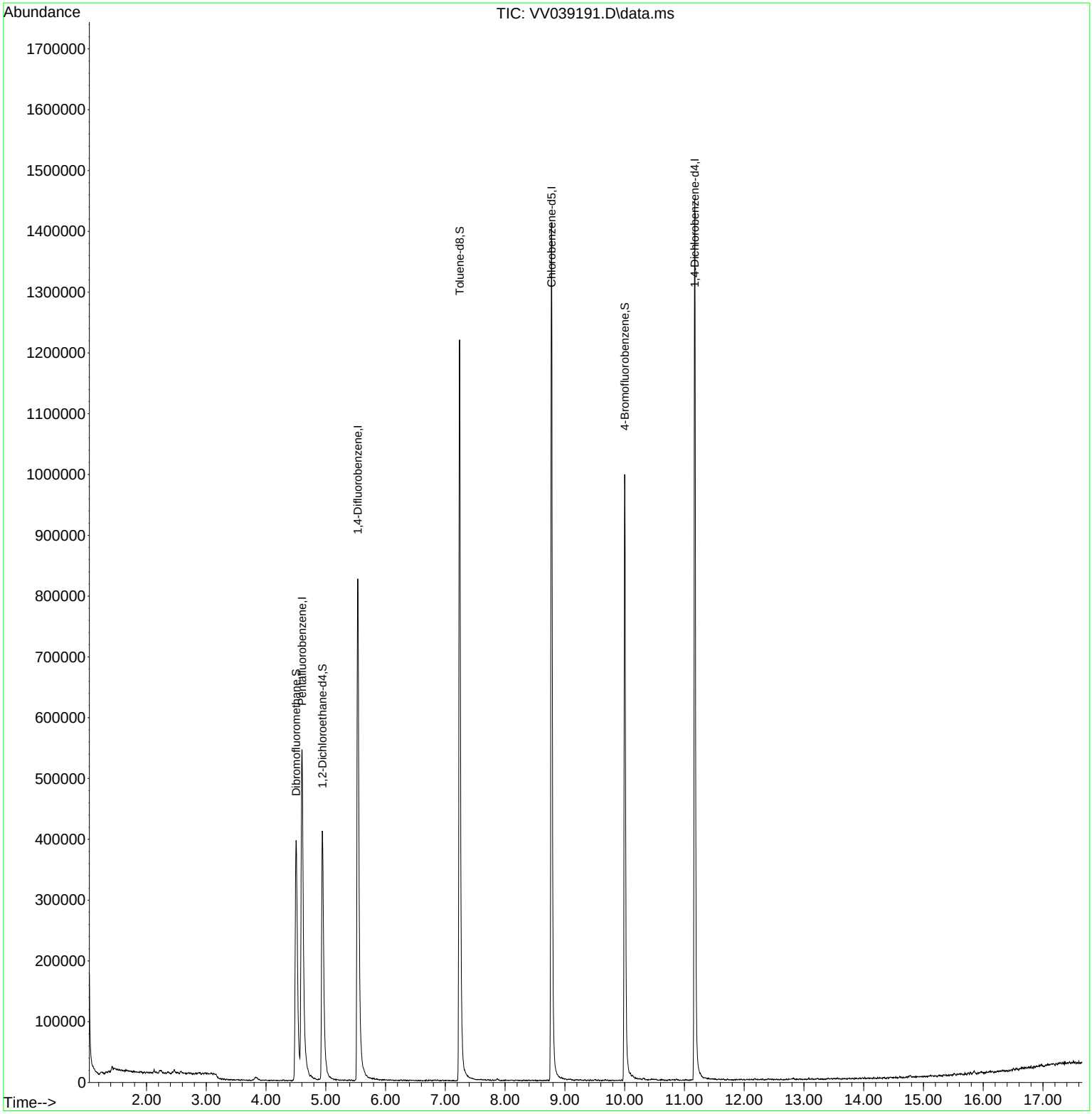
Target Compounds Qvalue

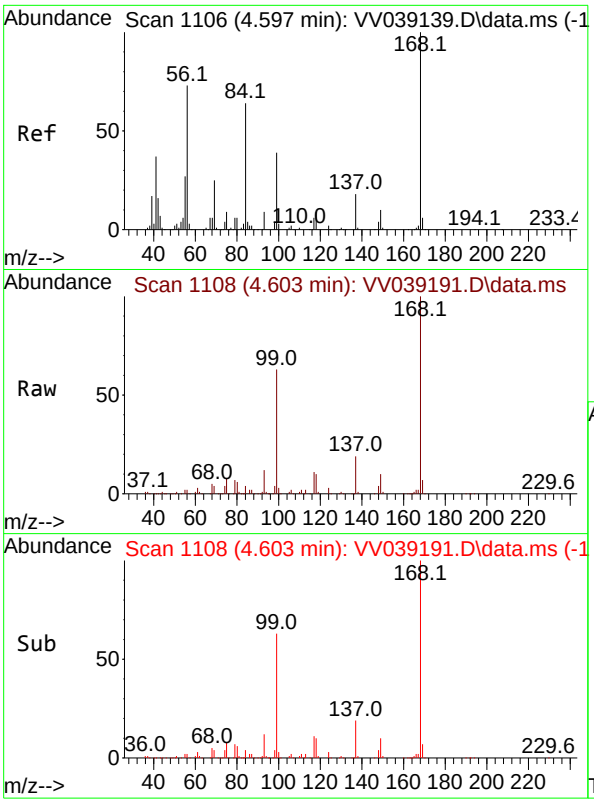
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039191.D
Acq On : 25 Sep 2025 18:55
Operator : SY/MD
Sample : Q3195-27
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
TB-01-091525

Quant Time: Sep 26 01:36:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



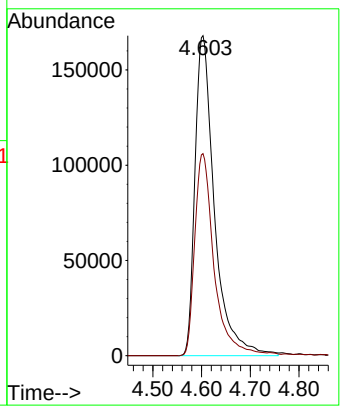


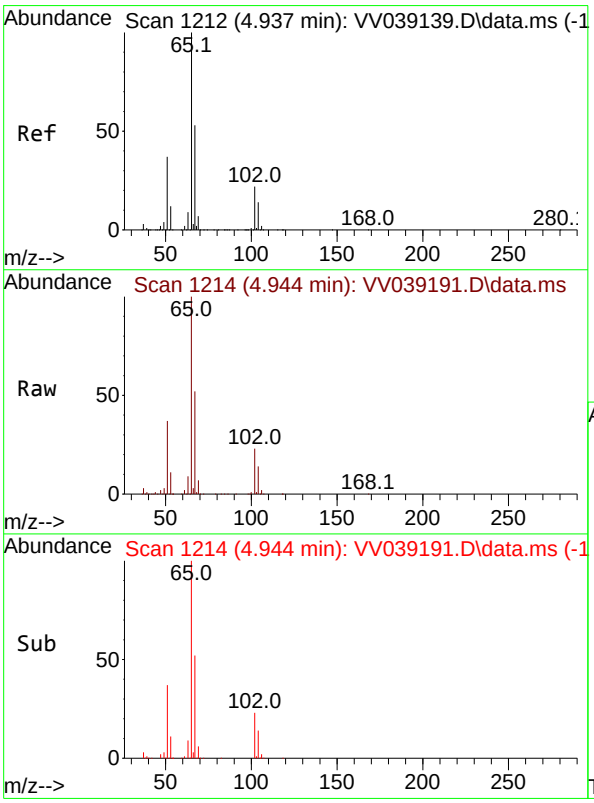

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 11
Delta R.T. 0.006 min
Lab File: VV039191.D
Acq: 25 Sep 2025 18:55

**Instrument :**
MSVOA_V
**ClientSampleId :**
TB-01-091525

Tgt Ion:168 Resp: 466916

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 63.1 | 49.6 | 74.4 |

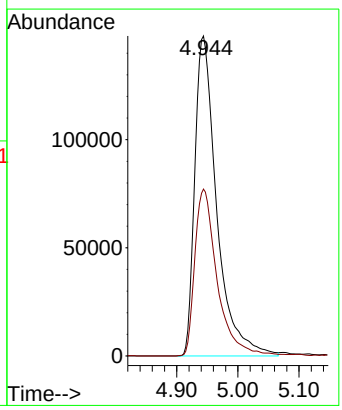


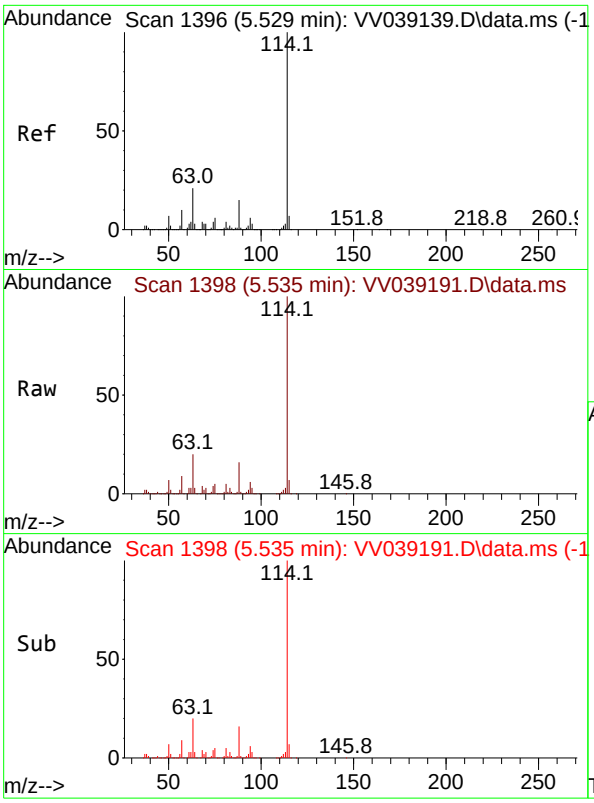




#33
1,2-Dichloroethane-d4
Concen: 54.517 ug/l
RT: 4.944 min Scan# 1214
Delta R.T. 0.006 min
Lab File: VV039191.D
Acq: 25 Sep 2025 18:55

Tgt Ion: 65 Resp: 368405

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.4 | 0.0 | 107.0 |



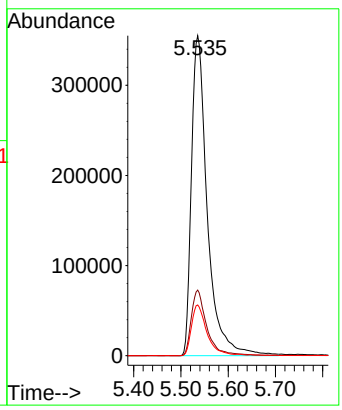


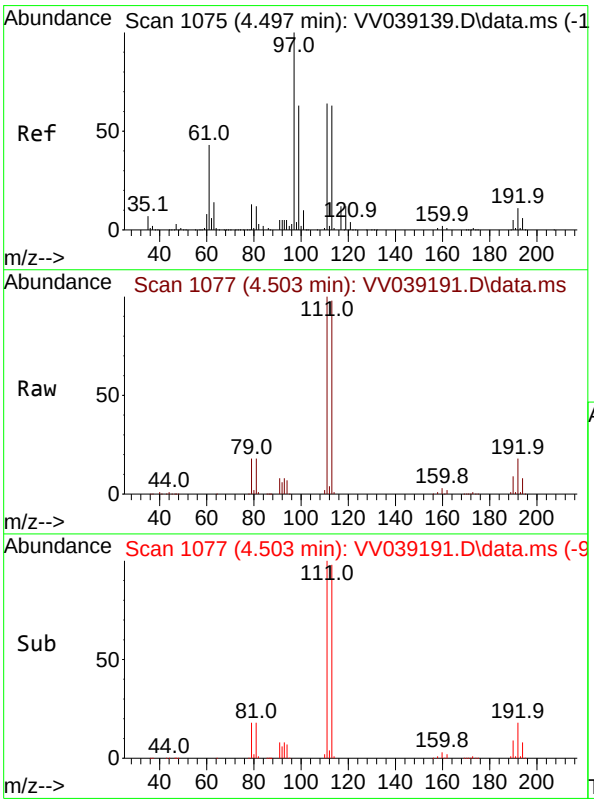

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039191.D
Acq: 25 Sep 2025 18:55

**Instrument :**
MSVOA_V
**ClientSampleId :**
TB-01-091525

Tgt Ion:114 Resp: 828915

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.5 | 0.0 | 42.6 |
| 88 | 15.9 | 0.0 | 30.8 |

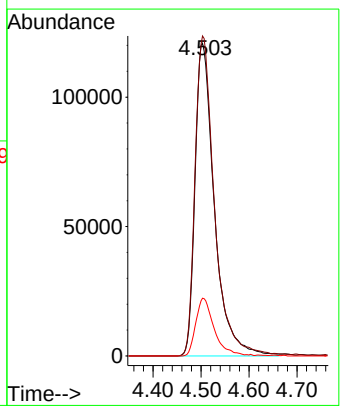


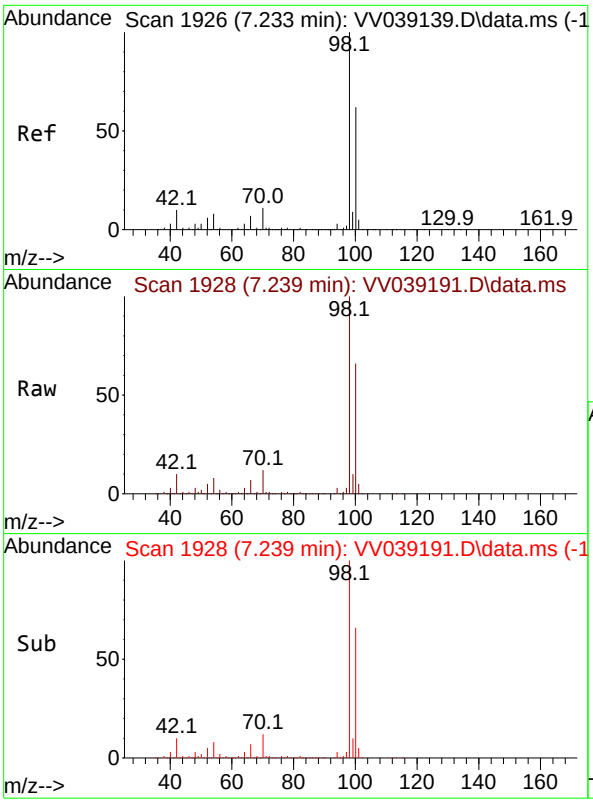




#35
Dibromofluoromethane
Concen: 50.802 ug/l
RT: 4.503 min Scan# 1077
Delta R.T. 0.006 min
Lab File: VV039191.D
Acq: 25 Sep 2025 18:55

Tgt Ion:113 Resp: 338536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.8 | 82.4 | 123.6 |
| 192 | 17.5 | 13.8 | 20.8 |



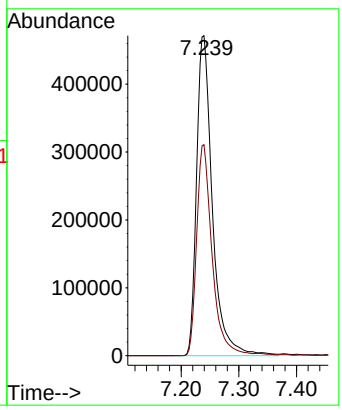


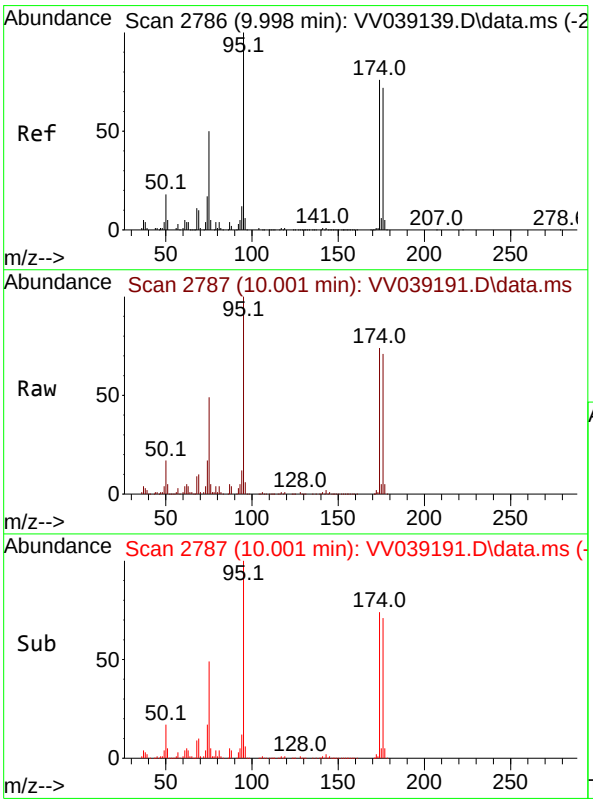

#50
Toluene-d8
Concen: 45.758 ug/l
RT: 7.239 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039191.D
Acq: 25 Sep 2025 18:55

**Instrument :**
MSVOA_V
**ClientSampleId :**
TB-01-091525

Tgt Ion: 98 Resp: 895565

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.3 | 52.2 | 78.2 |

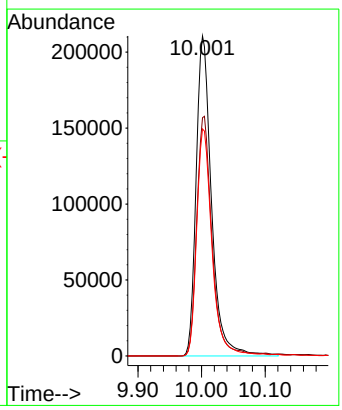


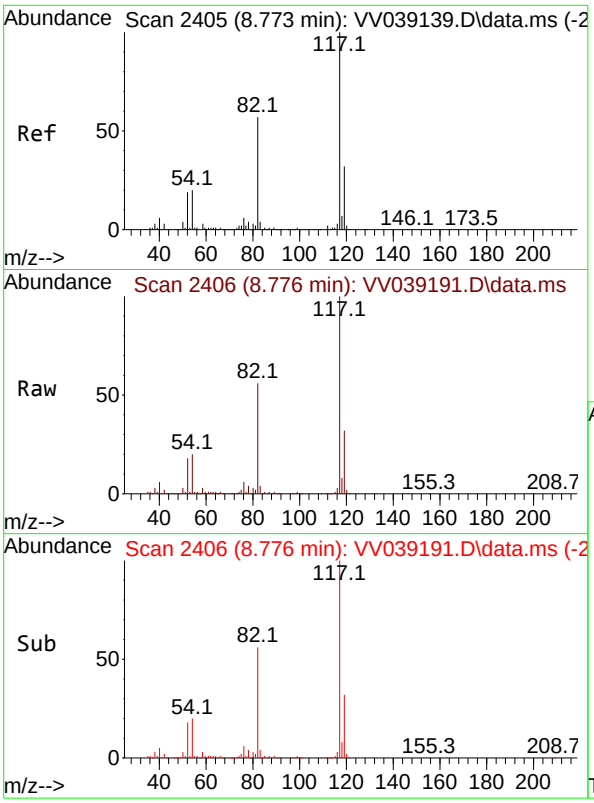




#62
4-Bromofluorobenzene
Concen: 43.962 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039191.D
Acq: 25 Sep 2025 18:55

Tgt Ion: 95 Resp: 354206

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 74.3 | 0.0 | 150.4 |
| 176 | 70.1 | 0.0 | 144.2 |



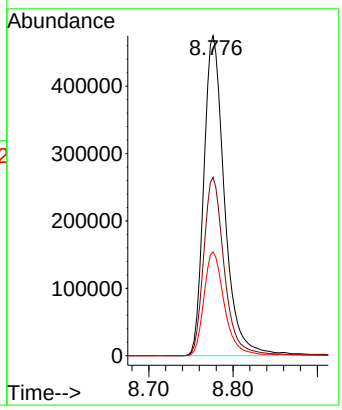


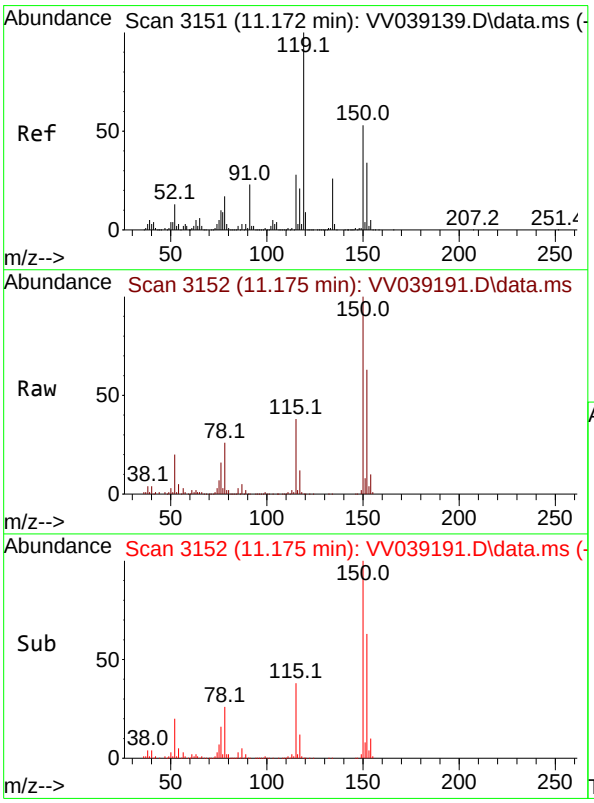

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039191.D
Acq: 25 Sep 2025 18:55

**Instrument :**
MSVOA_V
**ClientSampleId :**
TB-01-091525

Tgt Ion:117 Resp: 809498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 55.8 | 45.4 | 68.2 |
| 119 | 32.4 | 25.6 | 38.4 |

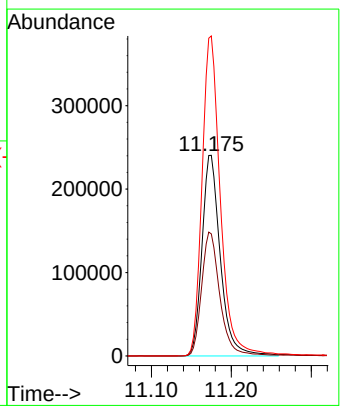



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039191.D
Acq: 25 Sep 2025 18:55

Tgt Ion:152 Resp: 384637

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 61.6 | 44.8 | 134.4 |
| 150 | 160.0 | 0.0 | 353.8 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039191.D
Acq On : 25 Sep 2025 18:55
Operator : SY/MD
Sample : Q3195-27
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
TB-01-091525

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039191.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.503 | 1062 | 1077 | 1096 | rBV | 394375 | 1051430 | 42.74% | 7.353% |
| 2 | 4.600 | 1096 | 1107 | 1149 | rVB | 538909 | 1488433 | 60.51% | 10.409% |
| 3 | 4.940 | 1200 | 1213 | 1252 | rBV | 408840 | 1032275 | 41.96% | 7.219% |
| 4 | 5.535 | 1387 | 1398 | 1442 | rBV | 824157 | 1935935 | 78.70% | 13.539% |
| 5 | 7.239 | 1915 | 1928 | 1953 | rBV | 1219126 | 2311512 | 93.97% | 16.166% |
| 6 | 8.776 | 2394 | 2406 | 2444 | rBV | 1411940 | 2459970 | 100.00% | 17.204% |
| 7 | 10.001 | 2776 | 2787 | 2814 | rBV | 997214 | 1677527 | 68.19% | 11.732% |
| 8 | 11.172 | 3141 | 3151 | 3179 | rBV | 1449169 | 2341850 | 95.20% | 16.378% |

Sum of corrected areas: 14298932

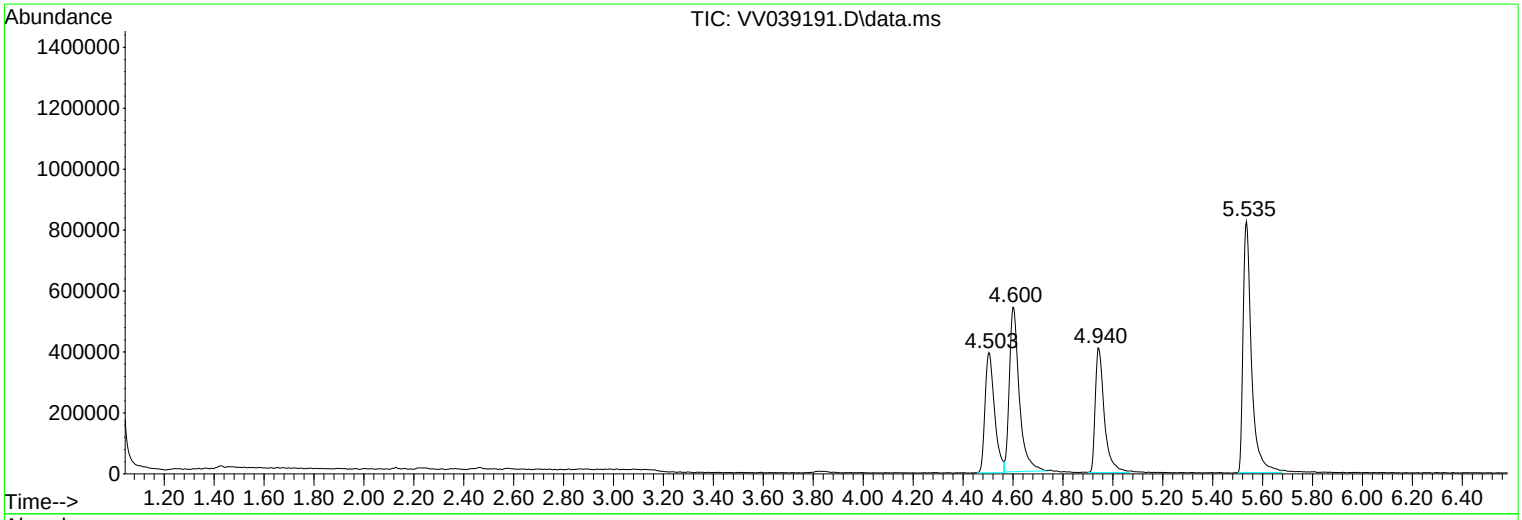
Sample Results: **VV039191.D**

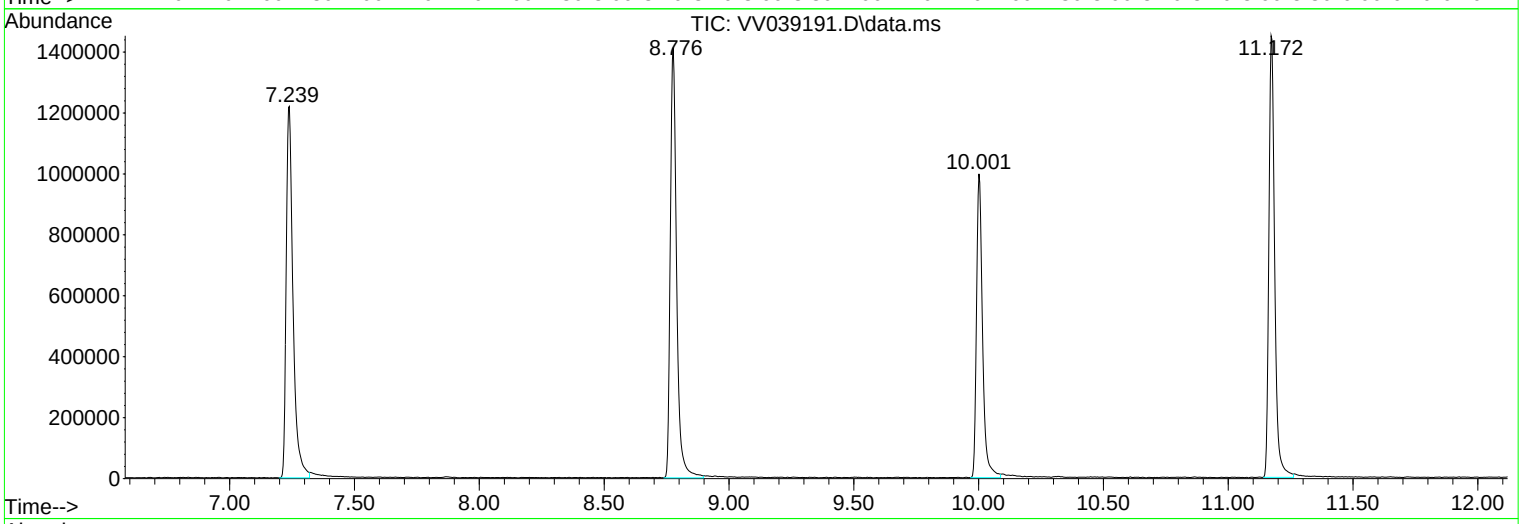
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039191.D
Acq On : 25 Sep 2025 18:55
Operator : SY/MD
Sample : Q3195-27
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 25 Sample Multiplier: 1

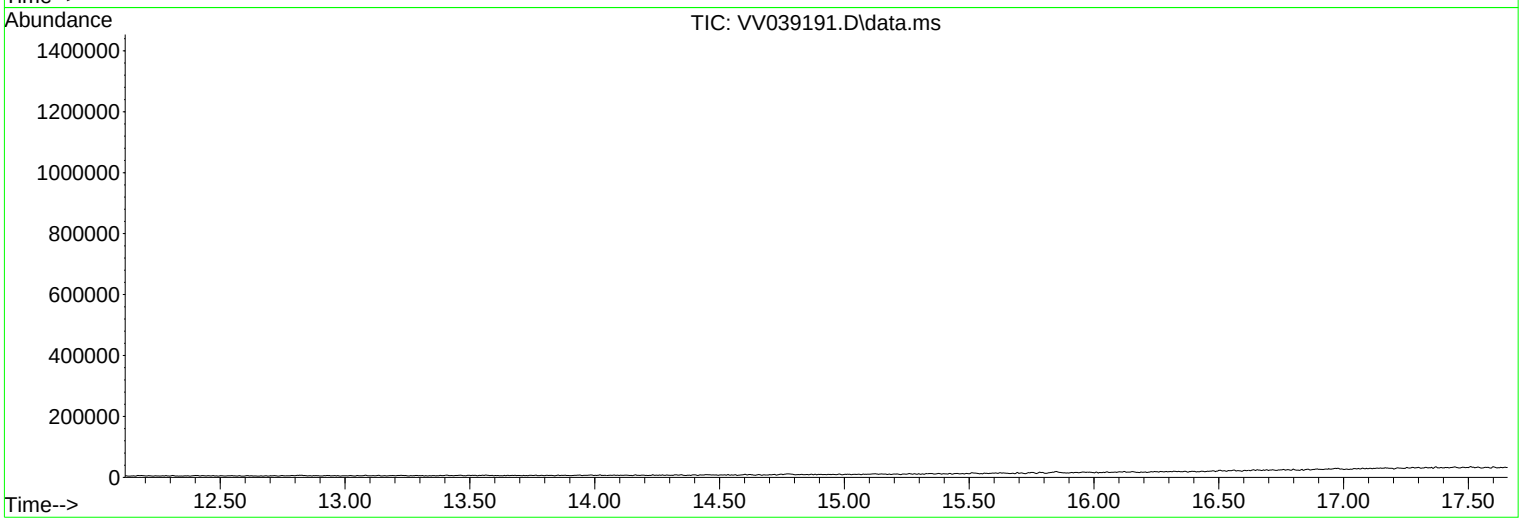
**Instrument :**
MSVOA_V
**ClientSampleId :**
TB-01-091525

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039191.D
Acq On : 25 Sep 2025 18:55
Operator : SY/MD
Sample : Q3195-27
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
TB-01-091525

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039191.D
Acq On : 25 Sep 2025 18:55
Operator : SY/MD
Sample : Q3195-27
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
TB-01-091525

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

# CALIBRATION SUMMARY

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

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: TECH05

Lab Code: ACE SDG No.: Q3195

Instrument ID: MSVOA_V Calibration Date(s): 09/22/2025 09/22/2025

Heated Purge: (Y/N) N Calibration Time(s): 12:26 16:35

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF010 = VV039137.D RRF020 = VV039138.D RRF050 = VV039139.D
RRF100 = VV039140.D RRF005 = VV039142.D RRF001 = VV039143.D

| COMPOUND | RRF010 | RRF020 | RRF050 | RRF100 | RRF005 | RRF001 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.848 | 0.757 | 0.740 | 0.699 | 0.772 | 0.934 | 0.792 | 10.8 |
| Chloromethane | 0.949 | 0.814 | 0.770 | 0.729 | 0.889 | 0.946 | 0.850 | 10.9 |
| Vinyl Chloride | 1.007 | 0.856 | 0.836 | 0.801 | 0.932 | 1.026 | 0.910 | 10.3 |
| Bromomethane | 0.631 | 0.548 | 0.508 | 0.524 | 0.655 | | 0.573 | 11.5 |
| Chloroethane | 0.662 | 0.568 | 0.533 | 0.500 | 0.606 | 0.915 | 0.631 | 23.8 |
| Trichlorofluoromethane | 1.394 | 1.253 | 1.193 | 1.151 | 1.365 | 1.546 | 1.317 | 11.2 |
| 1,1,2-Trichlorotrifluoroethane | 0.839 | 0.732 | 0.702 | 0.686 | 0.804 | 0.939 | 0.784 | 12.3 |
| 1,1-Dichloroethene | 0.804 | 0.721 | 0.674 | 0.663 | 0.789 | 0.873 | 0.754 | 10.9 |
| Acetone | 0.537 | 0.458 | 0.449 | 0.414 | 0.569 | 0.712 | 0.523 | 20.8 |
| Carbon Disulfide | 2.453 | 2.181 | 2.081 | 1.986 | 2.462 | 2.670 | 2.306 | 11.4 |
| Methyl tert-butyl Ether | 2.547 | 2.285 | 2.233 | 2.202 | 2.556 | 2.591 | 2.402 | 7.5 |
| Methyl Acetate | 1.146 | 1.036 | 0.983 | 0.973 | 1.097 | 1.198 | 1.072 | 8.5 |
| Methylene Chloride | 0.930 | 0.848 | 0.779 | 0.742 | 1.113 | 1.987 | 1.066 | 44 |
| trans-1,2-Dichloroethene | 0.846 | 0.755 | 0.724 | 0.696 | 0.835 | 0.959 | 0.803 | 12.1 |
| 1,1-Dichloroethane | 1.669 | 1.466 | 1.388 | 1.329 | 1.659 | 1.942 | 1.576 | 14.4 |
| Cyclohexane | 1.325 | 1.222 | 1.245 | 1.254 | 1.407 | | 1.291 | 5.9 |
| 2-Butanone | 0.604 | 0.584 | 0.586 | 0.580 | 0.570 | 0.554 | 0.579 | 2.9 |
| Carbon Tetrachloride | 0.742 | 0.710 | 0.703 | 0.675 | 0.736 | 0.890 | 0.743 | 10.2 |
| cis-1,2-Dichloroethene | 0.908 | 0.842 | 0.868 | 0.860 | 0.832 | 1.001 | 0.885 | 7.1 |
| Bromochloromethane | 0.836 | 0.753 | 0.679 | 0.637 | 0.525 | 0.743 | 0.696 | 15.5 |
| Chloroform | 1.752 | 1.570 | 1.490 | 1.433 | 1.746 | 1.880 | 1.645 | 10.6 |
| 1,1,1-Trichloroethane | 1.562 | 1.321 | 1.298 | 1.263 | 1.513 | 1.590 | 1.424 | 10.3 |
| Methylcyclohexane | 0.701 | 0.720 | 0.823 | 0.857 | 0.680 | 0.622 | 0.734 | 12.2 |
| Benzene | 2.077 | 1.978 | 1.990 | 1.931 | 1.963 | 1.936 | 1.979 | 2.7 |
| 1,2-Dichloroethane | 0.725 | 0.694 | 0.666 | 0.643 | 0.693 | 0.740 | 0.693 | 5.2 |
| Trichloroethene | 0.471 | 0.456 | 0.463 | 0.454 | 0.460 | 0.435 | 0.457 | 2.6 |
| 1,2-Dichloropropane | 0.509 | 0.519 | 0.502 | 0.486 | 0.471 | 0.465 | 0.492 | 4.4 |
| Bromodichloromethane | 0.832 | 0.764 | 0.753 | 0.725 | 0.767 | 0.829 | 0.778 | 5.5 |
| 4-Methyl-2-Pentanone | 0.715 | 0.736 | 0.732 | 0.714 | 0.613 | 0.459 | 0.661 | 16.5 |
| Toluene | 1.211 | 1.199 | 1.229 | 1.214 | 1.130 | 0.901 | 1.147 | 10.9 |

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: TECH05

Lab Code: ACE SDG No.: Q3195

Instrument ID: MSVOA_V Calibration Date(s): 09/22/2025 09/22/2025

Heated Purge: (Y/N) N Calibration Time(s): 12:26 16:35

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF010 = VV039137.D RRF020 = VV039138.D RRF050 = VV039139.D
RRF100 = VV039140.D RRF005 = VV039142.D RRF001 = VV039143.D

| COMPOUND | RRF010 | RRF020 | RRF050 | RRF100 | RRF005 | RRF001 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| t-1,3-Dichloropropene | 0.701 | 0.696 | 0.728 | 0.753 | 0.645 | 0.548 | 0.678 | 10.8 |
| cis-1,3-Dichloropropene | 0.803 | 0.777 | 0.811 | 0.803 | 0.704 | 0.595 | 0.749 | 11.4 |
| 1,1,2-Trichloroethane | 0.534 | 0.502 | 0.494 | 0.480 | 0.524 | 0.553 | 0.514 | 5.3 |
| 2-Hexanone | 0.505 | 0.534 | 0.546 | 0.533 | 0.429 | 0.231 | 0.463 | 26.2 |
| Dibromochloromethane | 0.605 | 0.570 | 0.567 | 0.558 | 0.598 | 0.620 | 0.586 | 4.2 |
| 1,2-Dibromoethane | 0.556 | 0.538 | 0.529 | 0.514 | 0.535 | 0.484 | 0.526 | 4.7 |
| Tetrachloroethene | 0.435 | 0.412 | 0.412 | 0.407 | 0.431 | 0.415 | 0.419 | 2.7 |
| Chlorobenzene | 1.403 | 1.368 | 1.383 | 1.358 | 1.417 | 1.428 | 1.393 | 2 |
| Ethyl Benzene | 2.028 | 2.143 | 2.382 | 2.418 | 1.953 | 1.725 | 2.108 | 12.5 |
| m/p-Xylenes | 0.820 | 0.882 | 0.949 | 0.938 | 0.713 | 0.580 | 0.814 | 17.7 |
| o-Xylene | 0.703 | 0.742 | 0.846 | 0.880 | 0.635 | 0.518 | 0.720 | 18.7 |
| Styrene | 1.239 | 1.381 | 1.553 | 1.537 | 1.038 | 0.828 | 1.263 | 22.8 |
| Bromoform | 0.396 | 0.384 | 0.396 | 0.400 | 0.385 | 0.397 | 0.393 | 1.7 |
| Isopropylbenzene | 3.564 | 3.638 | 3.939 | 4.096 | 3.296 | 3.226 | 3.627 | 9.5 |
| 1,1,2,2-Tetrachloroethane | 1.600 | 1.461 | 1.425 | 1.389 | 1.684 | 1.975 | 1.589 | 13.8 |
| 1,3-Dichlorobenzene | 1.931 | 1.836 | 1.857 | 1.882 | 1.943 | 1.975 | 1.904 | 2.8 |
| 1,4-Dichlorobenzene | 2.070 | 1.951 | 1.934 | 1.919 | 2.139 | 2.522 | 2.089 | 11 |
| 1,2-Dichlorobenzene | 1.751 | 1.652 | 1.738 | 1.802 | 1.797 | 1.935 | 1.779 | 5.3 |
| 1,2-Dibromo-3-Chloropropane | 0.299 | 0.283 | 0.285 | 0.302 | 0.333 | 0.476 | 0.330 | 22.4 |
| 1,2,4-Trichlorobenzene | 0.928 | 0.963 | 1.076 | 1.189 | 0.935 | 1.028 | 1.020 | 9.9 |
| 1,2,3-Trichlorobenzene | 0.974 | 0.973 | 1.107 | 1.191 | 0.901 | 1.113 | 1.043 | 10.6 |
| 1,2-Dichloroethane-d4 | 0.773 | 0.663 | 0.646 | 0.618 | 0.919 | | 0.724 | 17.1 |
| Dibromofluoromethane | 0.435 | 0.382 | 0.377 | 0.360 | 0.454 | | 0.402 | 10.1 |
| Toluene-d8 | 1.166 | 1.092 | 1.136 | 1.097 | 1.411 | | 1.181 | 11.2 |
| 4-Bromofluorobenzene | 0.481 | 0.464 | 0.507 | 0.501 | 0.477 | | 0.486 | 3.6 |

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

# Response Factor Report MSVOA_V

Method Path : Z:\voasrv\HPCHEM1\MSVOA_V\Method\
Method File : 82V092225W.M
Title : SW846 8260
Last Update : Wed Sep 24 08:08:08 2025
Response Via : Initial Calibration

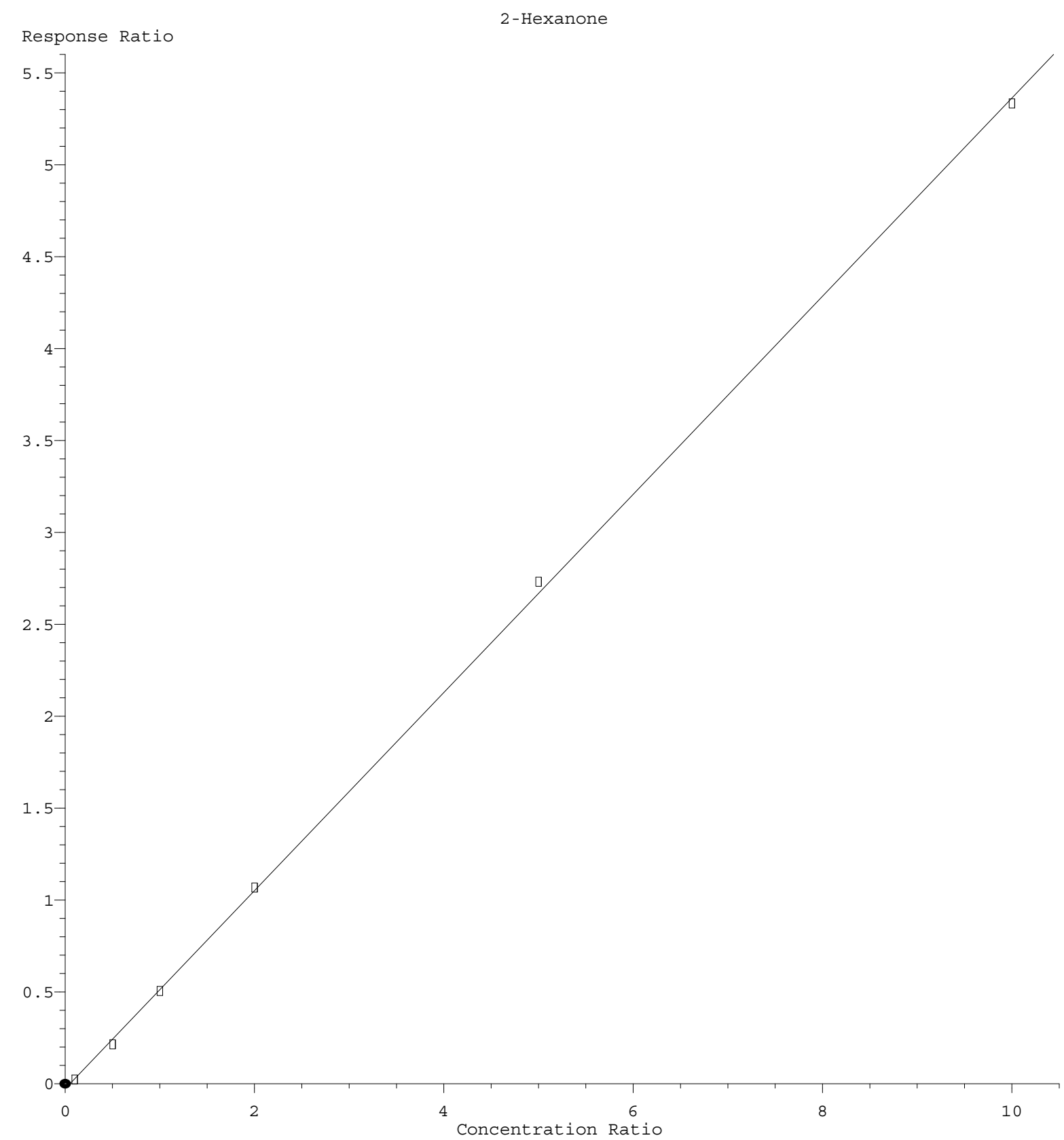
Calibration Files
1 =VV039143.D 5 =VV039142.D 10 =VV039137.D 20 =VV039138.D 50 =VV039139.D 100 =VV039140.D

| | | Compound | 1 | 5 | 10 | 20 | 50 | 100 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | Pentafluorobenzene | ----------ISTD---------- | | | | | | | |
| 2) | T | Dichlorodifluo... | 0.934 | 0.772 | 0.848 | 0.757 | 0.740 | 0.699 | 0.791 | 10.78 |
| 3) | P | Chloromethane | 0.946 | 0.889 | 0.949 | 0.814 | 0.770 | 0.729 | 0.850 | 10.90 |
| 4) | C | Vinyl Chloride | 1.026 | 0.932 | 1.007 | 0.856 | 0.836 | 0.801 | 0.910 | 10.27# |
| 5) | T | Bromomethane | | 0.655 | 0.631 | 0.548 | 0.508 | 0.524 | 0.573 | 11.50 |
| 6) | T | Chloroethane | 0.915 | 0.606 | 0.662 | 0.568 | 0.533 | 0.500 | 0.631 | 23.83 |
| 7) | T | Trichlorofluor... | 1.546 | 1.365 | 1.394 | 1.253 | 1.193 | 1.151 | 1.317 | 11.15 |
| 8) | T | Diethyl Ether | 0.572 | 0.513 | 0.505 | 0.461 | 0.447 | 0.435 | 0.489 | 10.50 |
| 9) | T | 1,1,2-Trichlor... | 0.939 | 0.804 | 0.839 | 0.732 | 0.702 | 0.686 | 0.784 | 12.28 |
| 10) | T | Methyl Iodide | | 0.638 | 0.772 | 0.742 | 0.786 | 0.793 | 0.746 | 8.50 |
| 11) | T | Tert butyl alc... | | 0.166 | 0.169 | 0.157 | 0.137 | 0.136 | 0.153 | 10.26 |
| 12) | CM | 1,1-Dichloroet... | 0.873 | 0.789 | 0.804 | 0.721 | 0.674 | 0.663 | 0.754 | 10.87# |
| 13) | T | Acrolein | | 0.025 | 0.027 | 0.027 | 0.026 | 0.027 | 0.027 | 4.01 |
| 14) | T | Allyl chloride | 1.523 | 1.434 | 1.388 | 1.283 | 1.243 | 1.208 | 1.347 | 9.06 |
| 15) | T | Acrylonitrile | 0.587 | 0.522 | 0.507 | 0.462 | 0.436 | 0.427 | 0.490 | 12.38 |
| 16) | T | Acetone | 0.712 | 0.569 | 0.537 | 0.458 | 0.449 | 0.414 | 0.523 | 20.84 |
| 17) | T | Carbon Disulfide | 2.670 | 2.462 | 2.453 | 2.181 | 2.081 | 1.986 | 2.306 | 11.43 |
| 18) | T | Methyl Acetate | 1.198 | 1.097 | 1.146 | 1.036 | 0.983 | 0.973 | 1.072 | 8.46 |
| 19) | T | Methyl tert-bu... | 2.591 | 2.556 | 2.547 | 2.285 | 2.233 | 2.202 | 2.402 | 7.50 |
| 20) | T | Methylene Chlo... | 1.987 | 1.113 | 0.930 | 0.848 | 0.779 | 0.742 | 1.066 | 44.05 |
| 21) | T | trans-1,2-Dich... | 0.959 | 0.835 | 0.846 | 0.755 | 0.724 | 0.696 | 0.803 | 12.11 |
| 22) | T | Diisopropyl ether | 2.659 | 2.560 | 2.757 | 2.530 | 2.520 | 2.433 | 2.576 | 4.44 |
| 23) | T | Vinyl Acetate | 2.243 | 2.313 | 2.393 | 2.241 | 2.204 | 2.128 | 2.254 | 4.04 |
| 24) | P | 1,1-Dichloroet... | 1.942 | 1.659 | 1.669 | 1.466 | 1.388 | 1.329 | 1.576 | 14.42 |
| 25) | T | 2-Butanone | 0.554 | 0.570 | 0.604 | 0.584 | 0.586 | 0.580 | 0.579 | 2.90 |
| 26) | T | 2,2-Dichloropr... | 1.906 | 1.393 | 1.364 | 1.275 | 1.239 | 1.204 | 1.397 | 18.57 |
| 27) | T | cis-1,2-Dichlo... | 1.001 | 0.832 | 0.908 | 0.842 | 0.868 | 0.860 | 0.885 | 7.06 |
| 28) | T | Bromochloromet... | 0.743 | 0.525 | 0.836 | 0.753 | 0.679 | 0.637 | 0.696 | 15.49 |
| 29) | T | Tetrahydrofuran | 0.335 | 0.350 | 0.376 | 0.372 | 0.369 | 0.374 | 0.363 | 4.57 |
| 30) | C | Chloroform | 1.880 | 1.746 | 1.752 | 1.570 | 1.490 | 1.433 | 1.645 | 10.60# |
| 31) | T | Cyclohexane | | 1.407 | 1.325 | 1.222 | 1.245 | 1.254 | 1.291 | 5.85 |
| 32) | T | 1,1,1-Trichlor... | 1.590 | 1.513 | 1.562 | 1.321 | 1.298 | 1.263 | 1.424 | 10.26 |
| 33) | S | 1,2-Dichloroet... | | 0.919 | 0.773 | 0.663 | 0.646 | 0.618 | 0.724 | 17.13 |
| 34) | I | 1,4-Difluorobenzene | ----------ISTD---------- | | | | | | | |
| 35) | S | Dibromofluorom... | | 0.454 | 0.435 | 0.382 | 0.377 | 0.360 | 0.402 | 10.10 |
| 36) | T | 1,1-Dichloropr... | 0.650 | 0.536 | 0.624 | 0.604 | 0.620 | 0.612 | 0.608 | 6.33 |
| 37) | T | Ethyl Acetate | 0.825 | 0.722 | 0.715 | 0.740 | 0.714 | 0.710 | 0.737 | 5.96 |
| 38) | T | Carbon Tetrach... | 0.890 | 0.736 | 0.742 | 0.710 | 0.703 | 0.675 | 0.743 | 10.25 |
| 39) | T | Methylcyclohexane | 0.622 | 0.680 | 0.701 | 0.720 | 0.823 | 0.857 | 0.734 | 12.15 |
| 40) | TM | Benzene | 1.936 | 1.963 | 2.077 | 1.978 | 1.990 | 1.931 | 1.979 | 2.69 |
| 41) | T | Methacrylonitrile | 0.185 | 0.215 | 0.273 | 0.292 | 0.330 | 0.342 | 0.273 | 22.92 |
| 42) | TM | 1,2-Dichloroet... | 0.740 | 0.693 | 0.725 | 0.694 | 0.666 | 0.643 | 0.693 | 5.20 |
| 43) | T | Isopropyl Acetate | 0.869 | 0.933 | 1.032 | 1.029 | 1.069 | 1.100 | 1.005 | 8.71 |
| 44) | TM | Trichloroethene | 0.435 | 0.460 | 0.471 | 0.456 | 0.463 | 0.454 | 0.457 | 2.64 |
| 45) | C | 1,2-Dichloropr... | 0.465 | 0.471 | 0.509 | 0.519 | 0.502 | 0.486 | 0.492 | 4.40# |
| 46) | T | Dibromomethane | 0.396 | 0.381 | 0.392 | 0.367 | 0.368 | 0.354 | 0.376 | 4.40 |
| 47) | T | Bromodichlorom... | 0.829 | 0.767 | 0.832 | 0.764 | 0.753 | 0.725 | 0.778 | 5.54 |
| 48) | T | Methyl methacr... | 0.491 | 0.356 | 0.409 | 0.449 | 0.504 | 0.526 | 0.456 | 14.15 |
| 49) | T | 1,4-Dioxane | 0.009 | 0.005 | 0.007 | 0.007 | 0.007 | 0.008 | 0.007 | 17.72 |
| 50) | S | Toluene-d8 | | 1.411 | 1.166 | 1.092 | 1.136 | 1.097 | 1.181 | 11.21 |
| 51) | T | 4-Methyl-2-Pen... | 0.459 | 0.613 | 0.715 | 0.736 | 0.732 | 0.714 | 0.661 | 16.48 |
| 52) | CM | Toluene | 0.901 | 1.130 | 1.211 | 1.199 | 1.229 | 1.214 | 1.147 | 10.93# |
| 53) | T | t-1,3-Dichloro... | 0.548 | 0.645 | 0.701 | 0.696 | 0.728 | 0.753 | 0.678 | 10.83 |
| 54) | T | cis-1,3-Dichlo... | 0.595 | 0.704 | 0.803 | 0.777 | 0.811 | 0.803 | 0.749 | 11.37 |
| 55) | T | 1,1,2-Trichlor... | 0.553 | 0.524 | 0.534 | 0.502 | 0.494 | 0.480 | 0.514 | 5.31 |
| 56) | T | Ethyl methacry... | 0.507 | 0.510 | 0.569 | 0.603 | 0.716 | 0.761 | 0.611 | 17.43 |

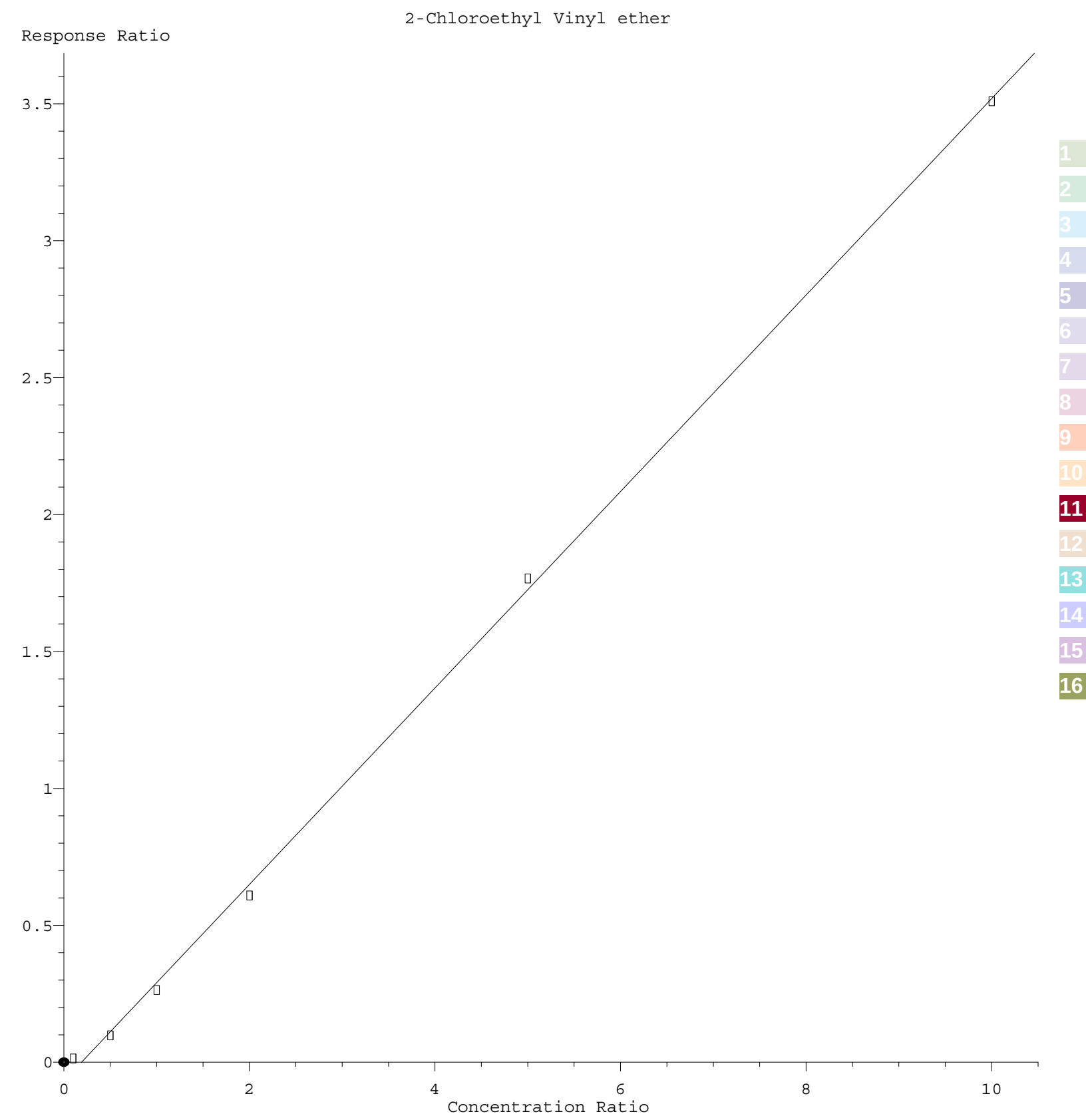
Method Path : Z:\voasrv\HPCHEM1\MSVOA_V\Method\
Method File : 82V092225W.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 57) | T | 1,3-Dichloropr... | 0.797 | 0.764 | 0.861 | 0.827 | 0.820 | 0.802 | 0.812 | 4.02 |
| 58) | T | 2-Chloroethyl ... | 0.136 | 0.196 | 0.264 | 0.304 | 0.353 | 0.351 | 0.267 | 32.62 |
| 59) | T | 2-Hexanone | 0.231 | 0.429 | 0.505 | 0.534 | 0.546 | 0.533 | 0.463 | 26.18 |
| 60) | T | Dibromochlorom... | 0.620 | 0.598 | 0.605 | 0.570 | 0.567 | 0.558 | 0.586 | 4.20 |
| 61) | T | 1,2-Dibromoethane | 0.484 | 0.535 | 0.556 | 0.538 | 0.529 | 0.514 | 0.526 | 4.70 |
| 62) | S | 4-Bromofluorob... | | 0.477 | 0.481 | 0.464 | 0.507 | 0.501 | 0.486 | 3.62 |
| 63) | I | Chlorobenzene-d5 | ----------ISTD---------- | | | | | | | |
| 64) | T | Tetrachloroethene | 0.415 | 0.431 | 0.435 | 0.412 | 0.412 | 0.407 | 0.419 | 2.74 |
| 65) | PM | Chlorobenzene | 1.428 | 1.417 | 1.403 | 1.368 | 1.383 | 1.358 | 1.393 | 1.99 |
| 66) | T | 1,1,1,2-Tetrac... | 0.543 | 0.504 | 0.520 | 0.488 | 0.488 | 0.477 | 0.503 | 4.84 |
| 67) | C | Ethyl Benzene | 1.725 | 1.953 | 2.028 | 2.143 | 2.382 | 2.418 | 2.108 | 12.53# |
| 68) | T | m/p-Xylenes | 0.580 | 0.713 | 0.820 | 0.882 | 0.949 | 0.938 | 0.814 | 17.68 |
| 69) | T | o-Xylene | 0.518 | 0.635 | 0.703 | 0.742 | 0.846 | 0.880 | 0.720 | 18.67 |
| 70) | T | Styrene | 0.828 | 1.038 | 1.239 | 1.381 | 1.553 | 1.537 | 1.263 | 22.78 |
| 71) | P | Bromoform | 0.397 | 0.385 | 0.396 | 0.384 | 0.396 | 0.400 | 0.393 | 1.68 |
| 72) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | |
| 73) | T | Isopropylbenzene | 3.226 | 3.296 | 3.564 | 3.638 | 3.939 | 4.096 | 3.627 | 9.49 |
| 74) | T | N-amyl acetate | 1.031 | 1.279 | 1.425 | 1.506 | 1.673 | 1.764 | 1.447 | 18.47 |
| 75) | P | 1,1,2,2-Tetrac... | 1.975 | 1.684 | 1.600 | 1.461 | 1.425 | 1.389 | 1.589 | 13.83 |
| 76) | T | 1,2,3-Trichlor... | 1.375 | 1.201 | 1.136 | 1.048 | 1.049 | 1.023 | 1.138 | 11.73 |
| 77) | T | Bromobenzene | 0.978 | 0.927 | 0.948 | 0.919 | 0.925 | 0.949 | 0.941 | 2.34 |
| 78) | T | n-propylbenzene | 3.873 | 3.967 | 4.330 | 4.442 | 4.899 | 4.986 | 4.416 | 10.44 |
| 79) | T | 2-Chlorotoluene | 2.114 | 2.585 | 2.752 | 2.688 | 2.833 | 2.883 | 2.643 | 10.59 |
| 80) | T | 1,3,5-Trimethy... | 2.462 | 2.697 | 2.924 | 3.141 | 3.387 | 3.475 | 3.014 | 13.12 |
| 81) | T | trans-1,4-Dich... | | 0.427 | 0.478 | 0.451 | 0.495 | 0.521 | 0.474 | 7.77 |
| 82) | T | 4-Chlorotoluene | 2.381 | 2.877 | 3.160 | 3.216 | 3.338 | 3.413 | 3.064 | 12.48 |
| 83) | T | tert-Butylbenzene | 2.875 | 2.757 | 2.886 | 2.881 | 3.222 | 3.413 | 3.006 | 8.43 |
| 84) | T | 1,2,4-Trimethy... | 2.332 | 2.542 | 2.767 | 3.100 | 3.378 | 3.440 | 2.926 | 15.47 |
| 85) | T | sec-Butylbenzene | 3.605 | 3.608 | 3.823 | 3.969 | 4.364 | 4.550 | 3.987 | 9.88 |
| 86) | T | p-Isopropyltol... | 2.874 | 2.994 | 3.237 | 3.351 | 3.682 | 3.772 | 3.318 | 10.85 |
| 87) | T | 1,3-Dichlorobe... | 1.975 | 1.943 | 1.931 | 1.836 | 1.857 | 1.882 | 1.904 | 2.83 |
| 88) | T | 1,4-Dichlorobe... | 2.522 | 2.139 | 2.070 | 1.951 | 1.934 | 1.919 | 2.089 | 10.97 |
| 89) | T | n-Butylbenzene | 2.646 | 2.816 | 3.034 | 3.141 | 3.613 | 3.763 | 3.169 | 13.88 |
| 90) | T | Hexachloroethane | 1.044 | 0.841 | 0.808 | 0.740 | 0.728 | 0.742 | 0.817 | 14.63 |
| 91) | T | 1,2-Dichlorobe... | 1.935 | 1.797 | 1.751 | 1.652 | 1.738 | 1.802 | 1.779 | 5.26 |
| 92) | T | 1,2-Dibromo-3-... | 0.476 | 0.333 | 0.299 | 0.283 | 0.285 | 0.302 | 0.330 | 22.39 |
| 93) | T | 1,2,4-Trichlor... | 1.028 | 0.935 | 0.928 | 0.963 | 1.076 | 1.189 | 1.020 | 9.87 |
| 94) | T | Hexachlorobuta... | 0.683 | 0.530 | 0.512 | 0.474 | 0.480 | 0.501 | 0.530 | 14.65 |
| 95) | T | Naphthalene | 3.054 | 2.665 | 2.888 | 3.114 | 3.814 | 4.244 | 3.296 | 18.32 |
| 96) | T | 1,2,3-Trichlor... | 1.113 | 0.901 | 0.974 | 0.973 | 1.107 | 1.191 | 1.043 | 10.58 |

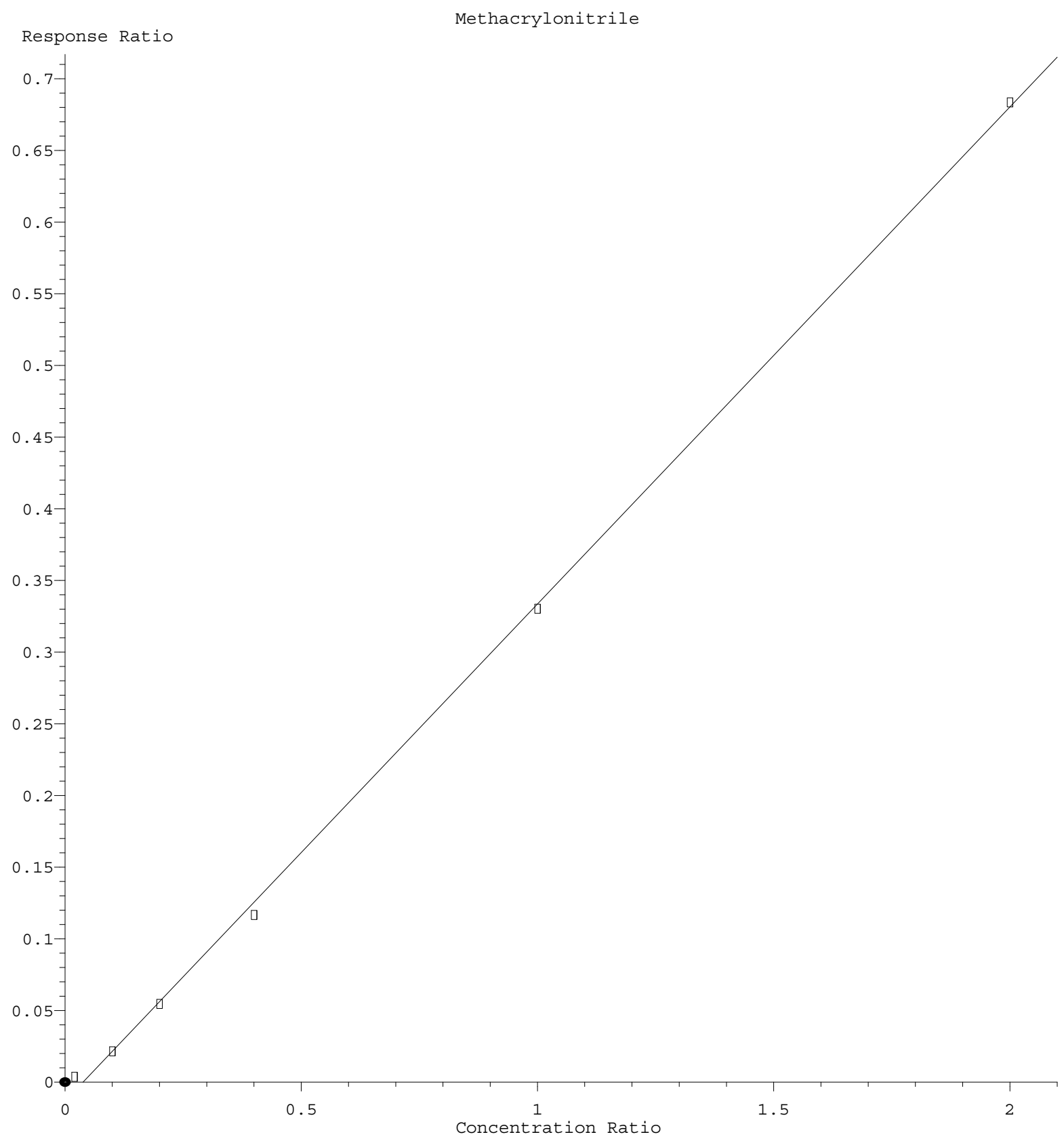
(#) = Out of Range



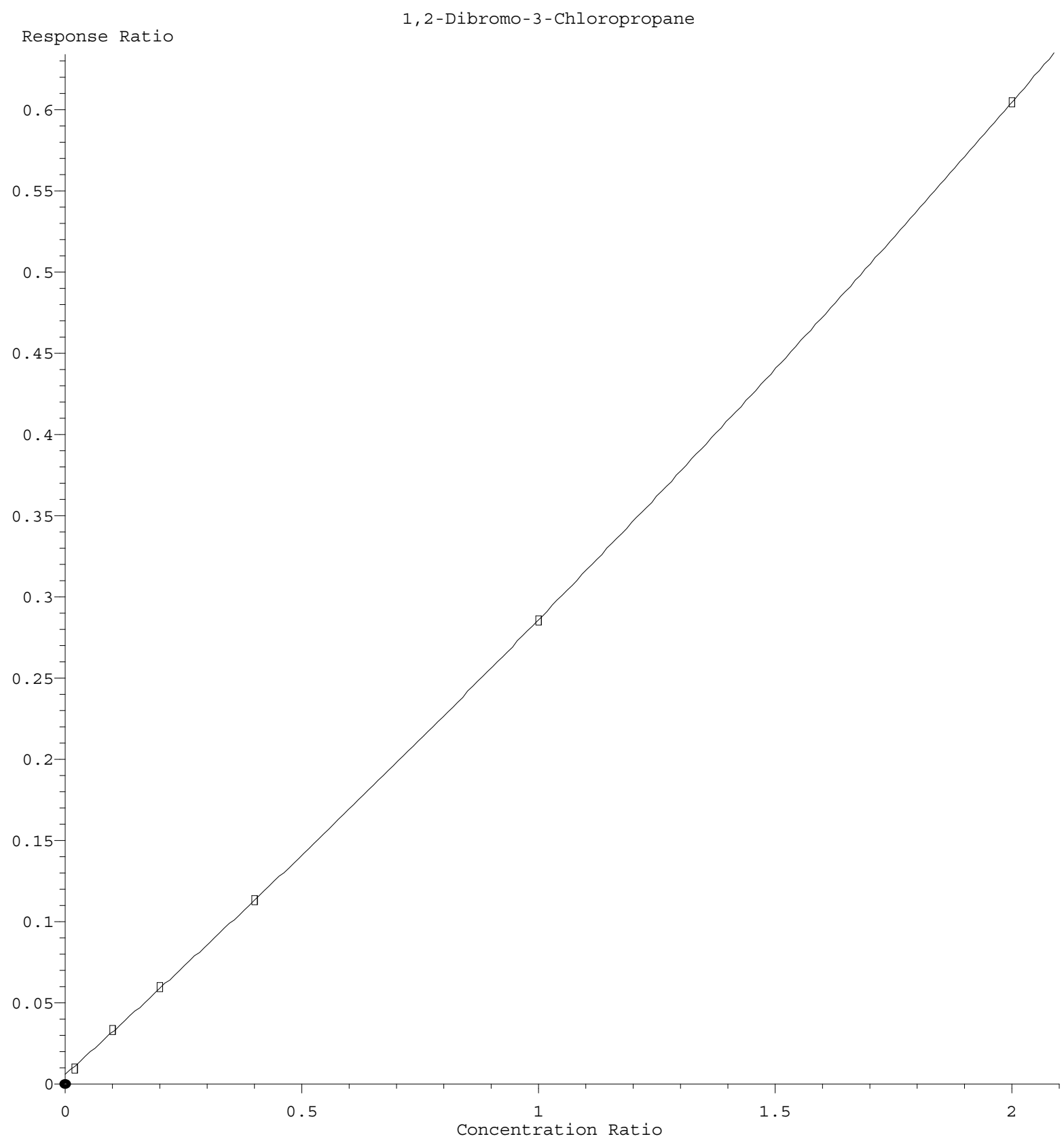

Response = 5.390e-001 * Amt - 2.507e-002
Coef of Det (r^2) = 0.999719  Curve Fit: Linear
Method: C:\Chrom\Archive\HPCHEM1\MSVOA V\Method\82V092225W.M
Calibration Table Last Updated: Wed Sep 24 08:08:08 2025



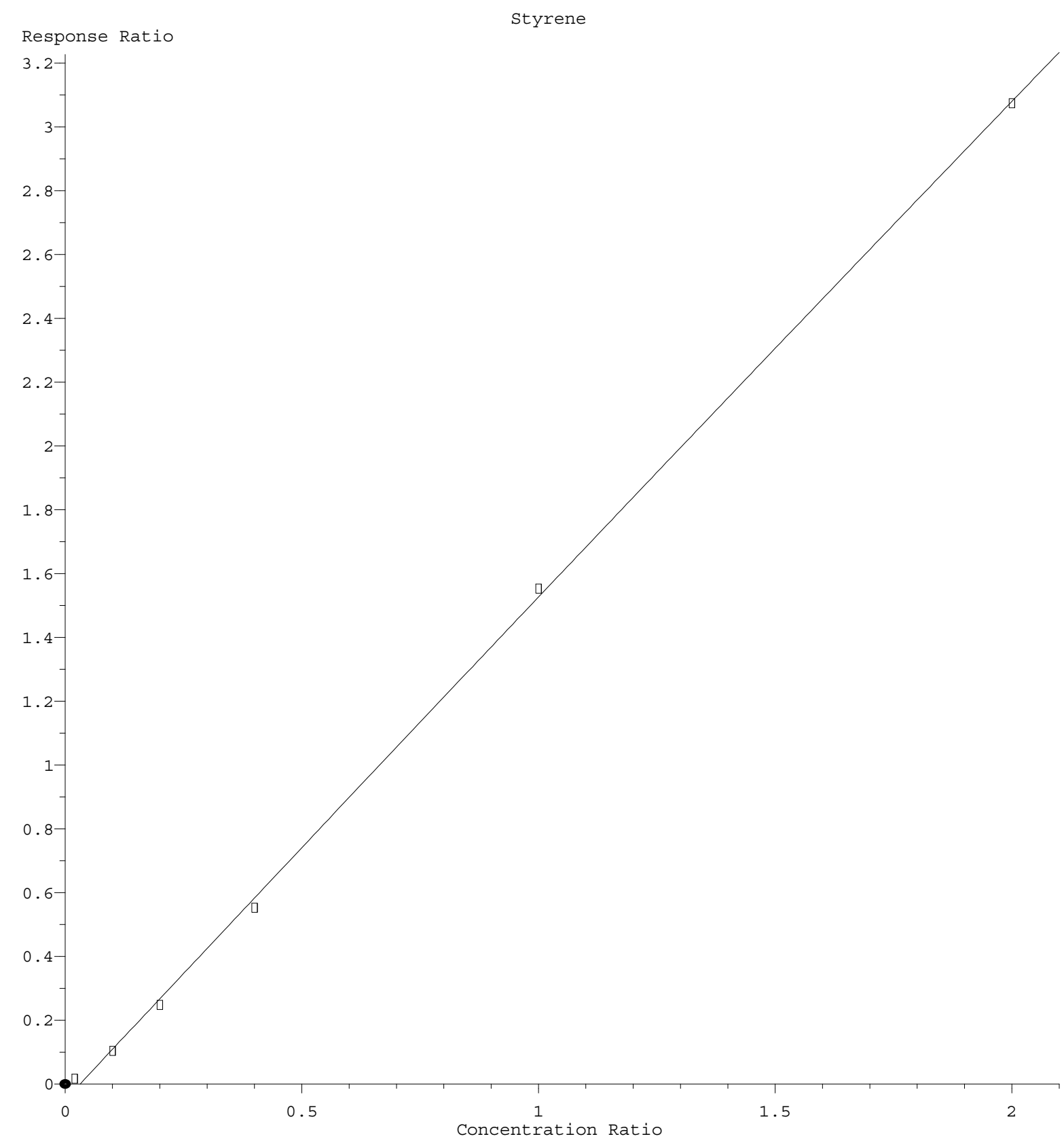

Response = 3.588e-001 * Amt - 6.905e-002
Coef of Det (r^2) = 0.999314  Curve Fit: Linear
Method: C:\Chrom\Archive\HPCHEM1\MSVOA_V\Method\82V092225W.M
Calibration Table Last Updated: Wed Sep 24 08:08:08 2025



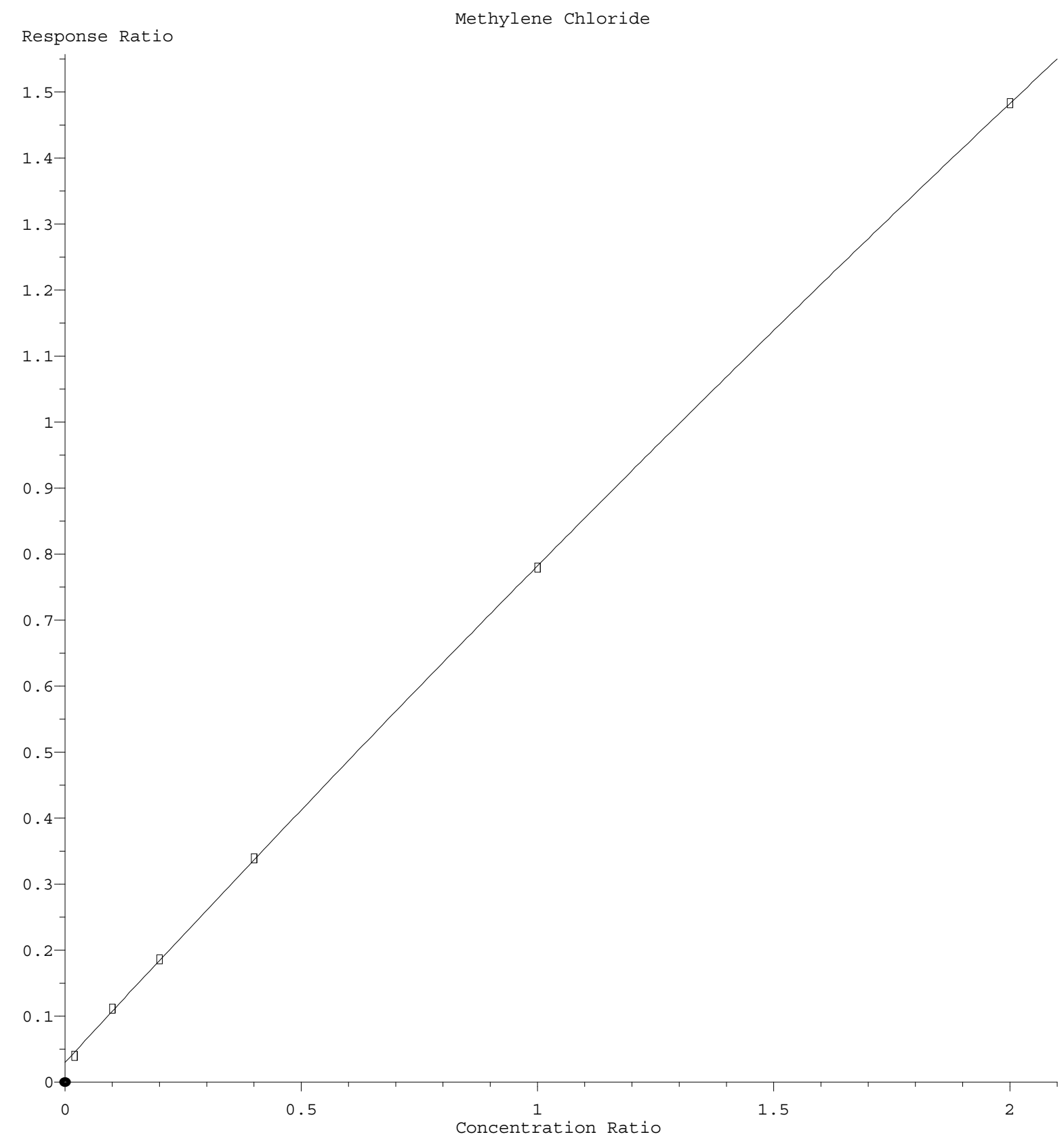

Response = 3.467e-001 * Amt - 1.325e-002
Coef of Det (r^2) = 0.999425  Curve Fit: Linear
Method: C:\Chemstation\1\DataArchv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Calibration Table Last Updated: Wed Sep 24 08:08:08 2025



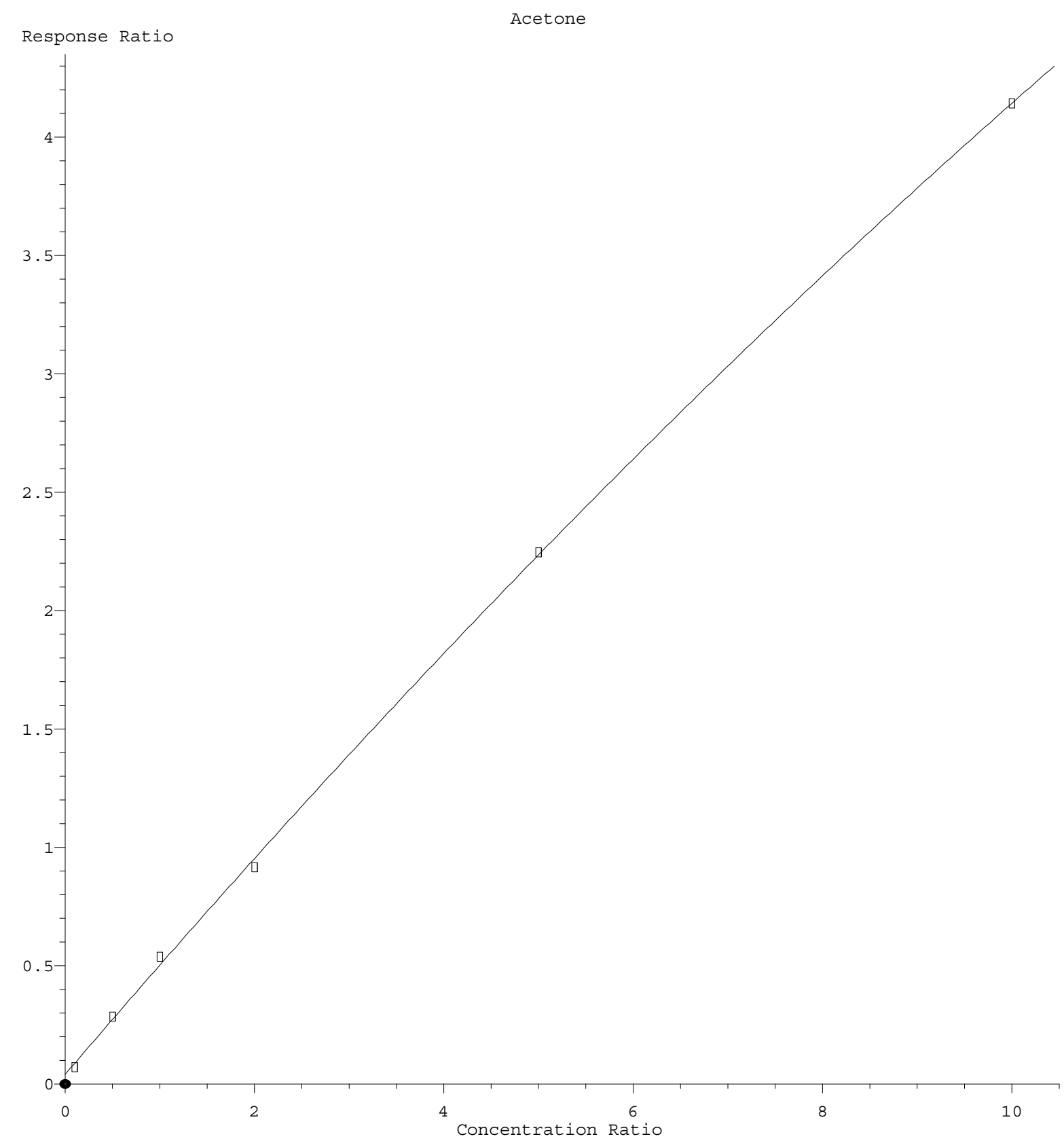

R = 1.931e-002 A*A + 2.606e-001 A + 5.917e-003
Coef of Det (r^2) = 0.999981  Curve Fit: Quadratic
Method: C:\Chem\1\Methods\rv\HPCHEM1\MSVOA V\Method\82V092225W.M
Calibration Table Last Updated: Wed Sep 24 08:08:08 2025



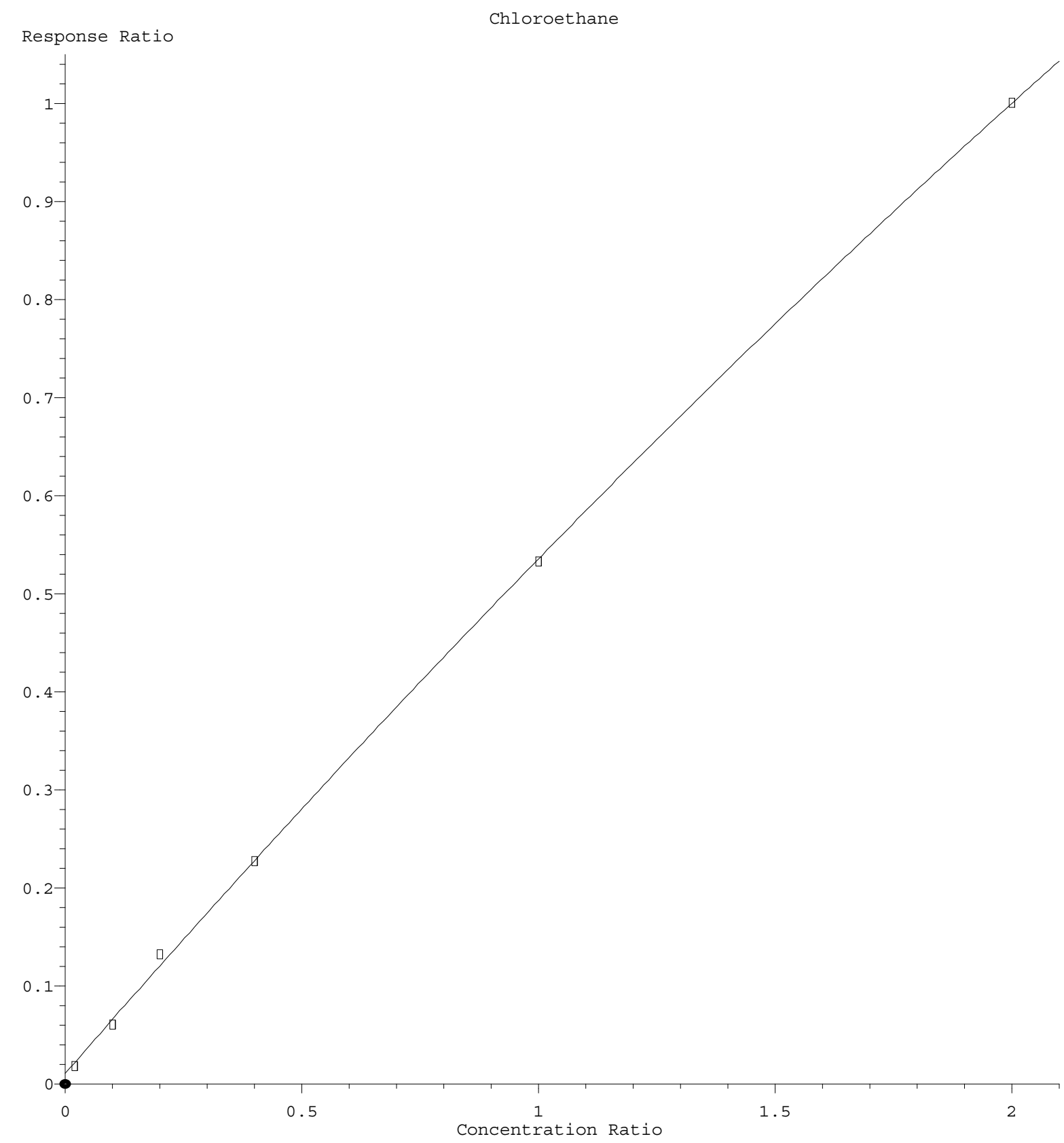

R = -1.124e-002 A*A + 1.587e+000 A - 4.955e-002
Coef of Det (r^2) = 0.999540  Curve Fit: Quadratic
Method: C:\Chem\1\Methods\rv\HPCHEM1\MSVOA V\Method\82V092225W.M
Calibration Table Last Updated: Wed Sep 24 08:08:08 2025




R = -2.570e-002 A*A + 7.777e-001 A + 2.991e-002
Coef of Det (r^2) = 0.999960  Curve Fit: Quadratic
Method: C:\msdchem\1\data\rv\HPCHEM1\MSVOA V\Method\82V092225W.M
Calibration Table Last Updated: Wed Sep 24 08:08:08 2025




R = -5.738e-003 A*A + 4.676e-001 A + 4.104e-002
Coef of Det (r^2) = 0.999745  Curve Fit: Quadratic
Method: C:\Chemstation\MassHunterData\Archive\HPCHEM1\MSVOA V\Method\82V092225W.M
Calibration Table Last Updated: Wed Sep 24 08:08:08 2025




R = -3.006e-002 A*A + 5.547e-001 A + 1.084e-002
Coef of Det (r^2) = 0.999734  Curve Fit: Quadratic
Method: C:\Chem\1\Methods\rv\HPCHEM1\MSVOA V\Method\82V092225W.M
Calibration Table Last Updated: Wed Sep 24 08:08:08 2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039137.D
Acq On : 22 Sep 2025 12:26
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Quant Time: Sep 24 07:21:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 4.597 | 168 | 501722 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 5.529 | 114 | 837272 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 8.773 | 117 | 824583 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.172 | 152 | 463438 | 50.000 | ug/l | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.944 | 65 | 77610 | 10.688 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 21.380%# | | | | |
| 35) Dibromofluoromethane | 4.503 | 113 | 72914 | 10.833 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 21.660%# | | | | |
| 50) Toluene-d8 | 7.240 | 98 | 195300 | 9.879 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 19.760%# | | | | |
| 62) 4-Bromofluorobenzene | 10.005 | 95 | 80587 | 9.902 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 19.800%# | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.121 | 85 | 85113 | 10.716 | ug/l | | 99 |
| 3) Chloromethane | 1.230 | 50 | 95215 | 11.167 | ug/l | | 95 |
| 4) Vinyl Chloride | 1.298 | 62 | 101023 | 11.068 | ug/l | | 99 |
| 5) Bromomethane | 1.500 | 94 | 63359 | 11.011 | ug/l | | 98 |
| 6) Chloroethane | 1.561 | 64 | 66412 | 11.087 | ug/l | | 98 |
| 7) Trichlorofluoromethane | 1.729 | 101 | 139927 | 10.588 | ug/l | | 98 |
| 8) Diethyl Ether | 1.918 | 74 | 50669 | 10.328 | ug/l | | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 2.082 | 101 | 84221 | 10.711 | ug/l | | 99 |
| 10) Methyl Iodide | 2.198 | 142 | 77448 | 10.343 | ug/l | | 98 |
| 11) Tert butyl alcohol | 2.568 | 59 | 84609 | 55.130 | ug/l | | 99 |
| 12) 1,1-Dichloroethene | 2.082 | 96 | 80704 | 10.669 | ug/l | | 97 |
| 13) Acrolein | 2.015 | 56 | 13557 | 50.908 | ug/l | # | 80 |
| 14) Allyl chloride | 2.359 | 41 | 139249 | 10.305 | ug/l | | 98 |
| 15) Acrylonitrile | 2.674 | 53 | 254235 | 51.676 | ug/l | | 99 |
| 16) Acetone | 2.121 | 43 | 269573 | 53.773 | ug/l | | 99 |
| 17) Carbon Disulfide | 2.253 | 76 | 246125 | 10.639 | ug/l | | 99 |
| 18) Methyl Acetate | 2.381 | 43 | 115005 | 10.689 | ug/l | | 97 |
| 19) Methyl tert-butyl Ether | 2.712 | 73 | 255535 | 10.601 | ug/l | | 99 |
| 20) Methylene Chloride | 2.455 | 84 | 93350 | 10.106 | ug/l | | 99 |
| 21) trans-1,2-Dichloroethene | 2.703 | 96 | 84891 | 10.541 | ug/l | | 95 |
| 22) Diisopropyl ether | 3.214 | 45 | 276604 | 10.699 | ug/l | # | 68 |
| 23) Vinyl Acetate | 3.191 | 43 | 1200618 | 53.087 | ug/l | | 100 |
| 24) 1,1-Dichloroethane | 3.118 | 63 | 167496 | 10.594 | ug/l | | 100 |
| 25) 2-Butanone | 3.873 | 43 | 303016 | 53.015 | ug/l | | 100 |
| 26) 2,2-Dichloropropane | 3.809 | 77 | 136919 | 9.806 | ug/l | | 100 |
| 27) cis-1,2-Dichloroethene | 3.822 | 96 | 91069 | 10.254 | ug/l | | 99 |
| 28) Bromochloromethane | 4.146 | 49 | 83889 | 12.019 | ug/l | | 98 |
| 29) Tetrahydrofuran | 4.240 | 42 | 188818 | 51.879 | ug/l | | 96 |
| 30) Chloroform | 4.278 | 83 | 175847 | 10.652 | ug/l | | 97 |
| 31) Cyclohexane | 4.584 | 56 | 132996 | 10.269 | ug/l | | 96 |
| 32) 1,1,1-Trichloroethane | 4.513 | 97 | 156733 | 10.966 | ug/l | | 96 |
| 36) 1,1-Dichloropropene | 4.744 | 75 | 104420 | 10.187 | ug/l | | 99 |
| 37) Ethyl Acetate | 3.982 | 43 | 119710 | 9.520 | ug/l | # | 91 |
| 38) Carbon Tetrachloride | 4.732 | 117 | 124321 | 10.069 | ug/l | | 98 |
| 39) Methylcyclohexane | 6.043 | 83 | 117354 | 9.549 | ug/l | | 94 |
| 40) Benzene | 5.008 | 78 | 347728 | 10.493 | ug/l | | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039137.D
Acq On : 22 Sep 2025 12:26
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Quant Time: Sep 24 07:21:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.169 | 41 | 45674 | 9.764 | ug/l | | 90 |
| 42) 1,2-Dichloroethane | 5.043 | 62 | 121437 | 10.458 | ug/l | | 100 |
| 43) Isopropyl Acetate | 5.195 | 43 | 172880 | 9.980 | ug/l | | 97 |
| 44) Trichloroethene | 5.834 | 130 | 78943 | 10.324 | ug/l | | 93 |
| 45) 1,2-Dichloropropane | 6.092 | 63 | 85295 | 10.355 | ug/l | | 99 |
| 46) Dibromomethane | 6.230 | 93 | 65717 | 10.424 | ug/l | | 98 |
| 47) Bromodichloromethane | 6.426 | 83 | 139261 | 10.685 | ug/l | | 97 |
| 48) Methyl methacrylate | 6.304 | 41 | 68465 | 8.639 | ug/l | | 97 |
| 49) 1,4-Dioxane | 6.297 | 88 | 23699 | 190.260 | ug/l | | 99 |
| 51) 4-Methyl-2-Pentanone | 7.150 | 43 | 598702 | 54.051 | ug/l | | 97 |
| 52) Toluene | 7.310 | 92 | 202741 | 10.552 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 7.580 | 75 | 117314 | 10.329 | ug/l | | 97 |
| 54) cis-1,3-Dichloropropene | 6.950 | 75 | 134529 | 10.729 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 7.764 | 97 | 89390 | 10.376 | ug/l | | 98 |
| 56) Ethyl methacrylate | 7.719 | 69 | 95279 | 9.313 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 7.934 | 76 | 144218 | 10.607 | ug/l | | 98 |
| 58) 2-Chloroethyl Vinyl ether | 6.815 | 63 | 220693 | 46.148 | ug/l | | 99 |
| 59) 2-Hexanone | 8.066 | 43 | 422703 | 49.020 | ug/l | | 93 |
| 60) Dibromochloromethane | 8.169 | 129 | 101236 | 10.313 | ug/l | | 97 |
| 61) 1,2-Dibromoethane | 8.275 | 107 | 93182 | 10.576 | ug/l | | 100 |
| 64) Tetrachloroethene | 7.899 | 164 | 71811 | 10.397 | ug/l | | 98 |
| 65) Chlorobenzene | 8.805 | 112 | 231329 | 10.072 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 8.899 | 131 | 85678 | 10.324 | ug/l | | 99 |
| 67) Ethyl Benzene | 8.937 | 91 | 334394 | 9.618 | ug/l | | 99 |
| 68) m/p-Xylenes | 9.063 | 106 | 270452 | 20.155 | ug/l | | 99 |
| 69) o-Xylene | 9.468 | 106 | 115922 | 9.756 | ug/l | | 96 |
| 70) Styrene | 9.487 | 104 | 204368 | 9.382 | ug/l | | 100 |
| 71) Bromoform | 9.657 | 173 | 65302 | 10.074 | ug/l | # | 98 |
| 73) Isopropylbenzene | 9.857 | 105 | 330305 | 9.827 | ug/l | | 99 |
| 74) N-amyl acetate | 9.725 | 43 | 132108 | 9.853 | ug/l | | 96 |
| 75) 1,1,2,2-Tetrachloroethane | 10.165 | 83 | 148267 | 10.067 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 10.198 | 75 | 105275 | 9.977 | ug/l | | 99 |
| 77) Bromobenzene | 10.143 | 156 | 87828 | 10.071 | ug/l | | 96 |
| 78) n-propylbenzene | 10.278 | 91 | 401316 | 9.804 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 10.349 | 91 | 255053 | 10.413 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 10.464 | 105 | 270977 | 9.699 | ug/l | | 98 |
| 81) trans-1,4-Dichloro-2-b... | 9.931 | 75 | 44314 | 10.082 | ug/l | | 97 |
| 82) 4-Chlorotoluene | 10.464 | 91 | 292863 | 10.312 | ug/l | | 100 |
| 83) tert-Butylbenzene | 10.789 | 119 | 267528 | 9.603 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 10.841 | 105 | 256505 | 9.457 | ug/l | | 99 |
| 85) sec-Butylbenzene | 11.011 | 105 | 354312 | 9.588 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 11.169 | 119 | 300032 | 9.755 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 11.108 | 146 | 178990 | 10.141 | ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 11.198 | 146 | 191843 | 9.835 | ug/l | | 97 |
| 89) n-Butylbenzene | 11.580 | 91 | 281258 | 9.575 | ug/l | | 97 |
| 90) Hexachloroethane | 11.821 | 117 | 74910 | 9.891 | ug/l | | 96 |
| 91) 1,2-Dichlorobenzene | 11.567 | 146 | 162271 | 9.841 | ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.355 | 75 | 27674 | 10.167 | ug/l | | 98 |
| 93) 1,2,4-Trichlorobenzene | 13.188 | 180 | 85982 | 9.096 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 13.368 | 225 | 47413 | 9.653 | ug/l | | 97 |
| 95) Naphthalene | 13.426 | 128 | 267645 | 8.803 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 13.667 | 180 | 90238 | 9.334 | ug/l | | 100 |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039137.D
Acq On : 22 Sep 2025 12:26
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Quant Time: Sep 24 07:21:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

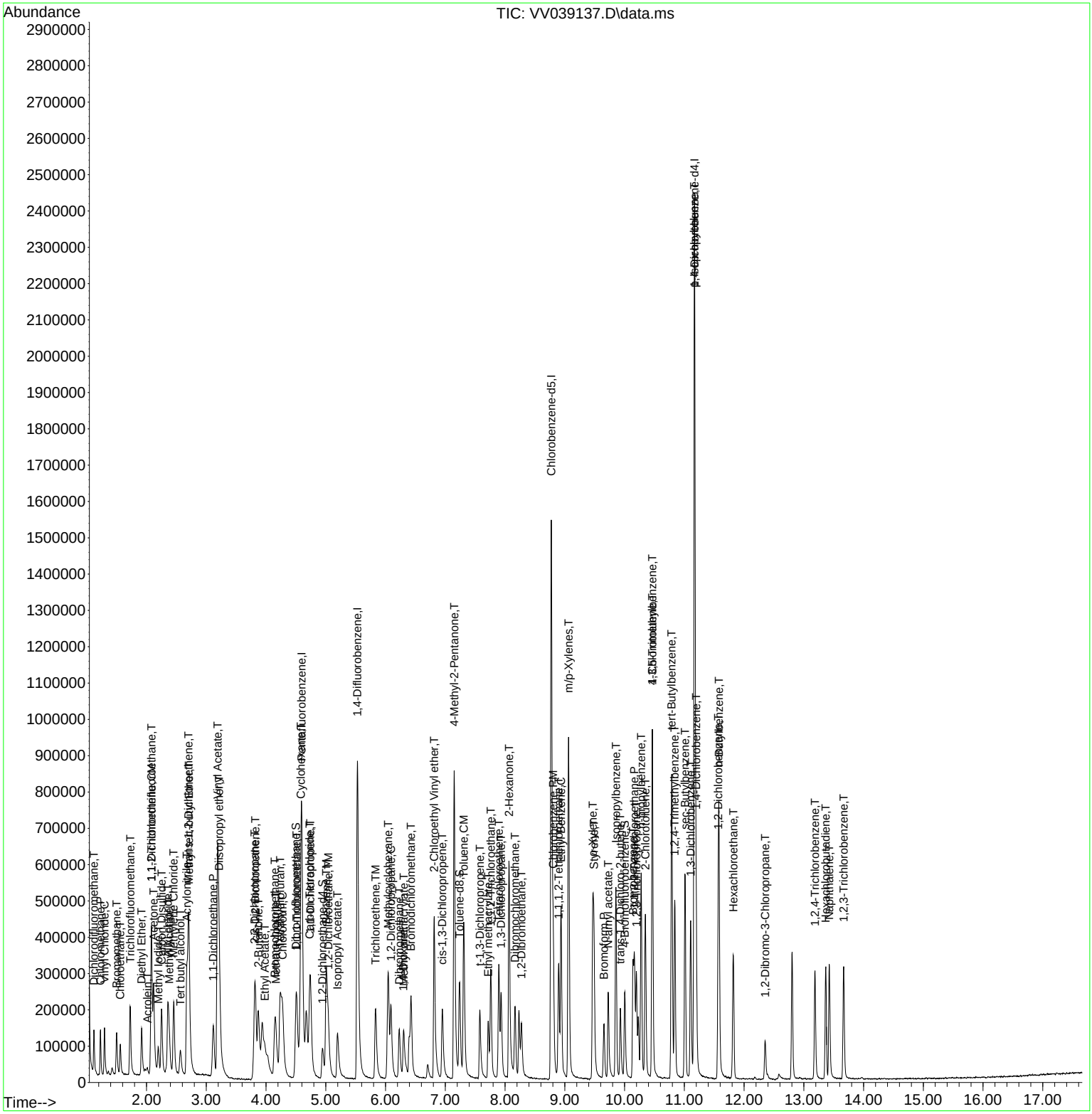
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

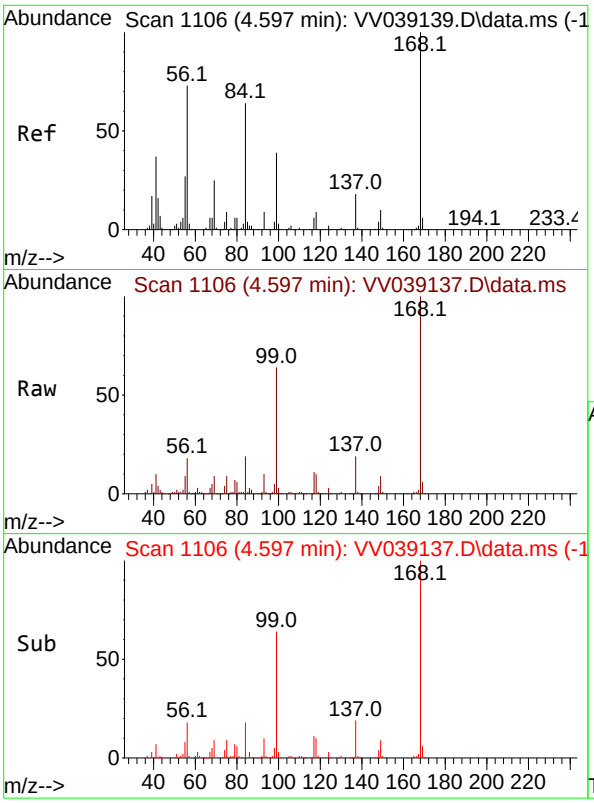
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039137.D
Acq On : 22 Sep 2025 12:26
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Quant Time: Sep 24 07:21:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration



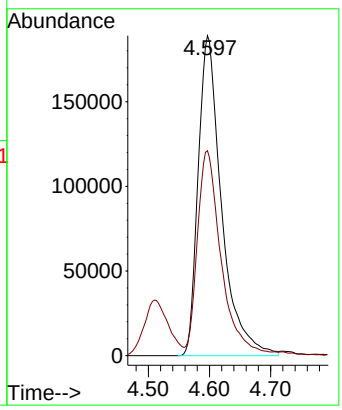


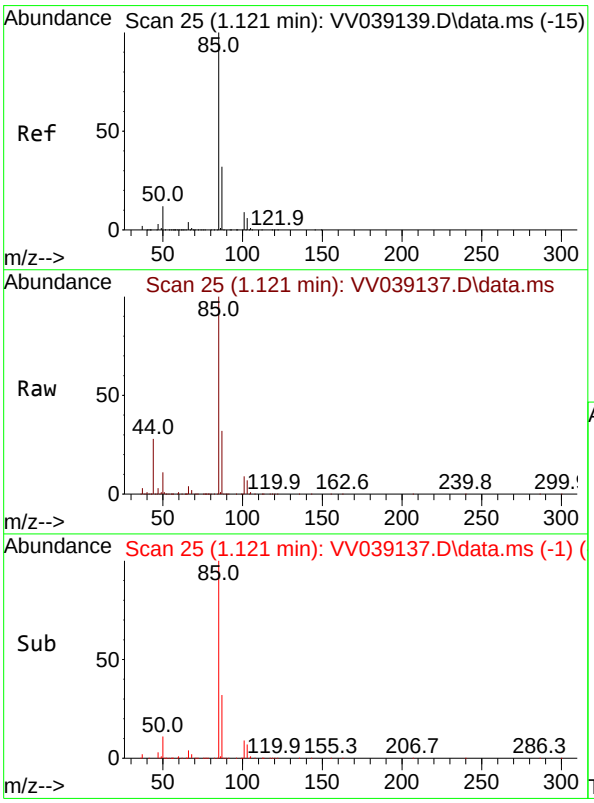

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.597 min Scan# 11
Delta R.T. -0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion:168 Resp: 501722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 63.0 | 49.6 | 74.4 |

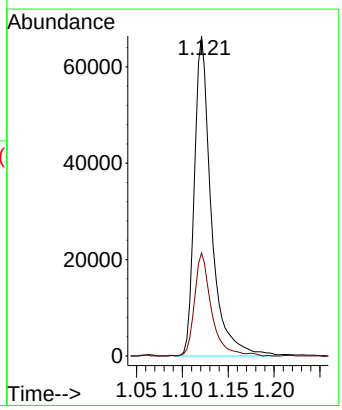


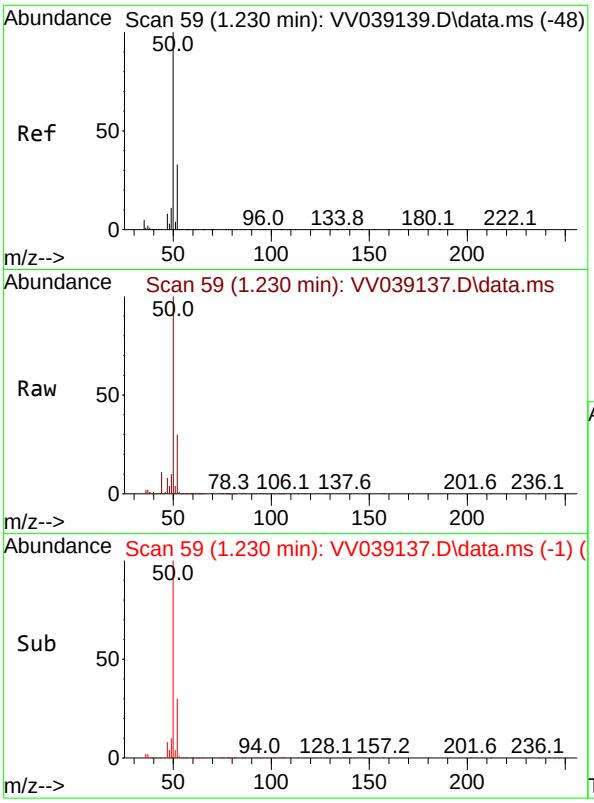




#2
Dichlorodifluoromethane
Concen: 10.716 ug/l
RT: 1.121 min Scan# 25
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 85 Resp: 85113

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.2 | 16.0 | 47.9 |



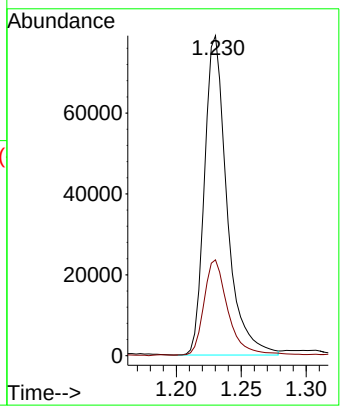


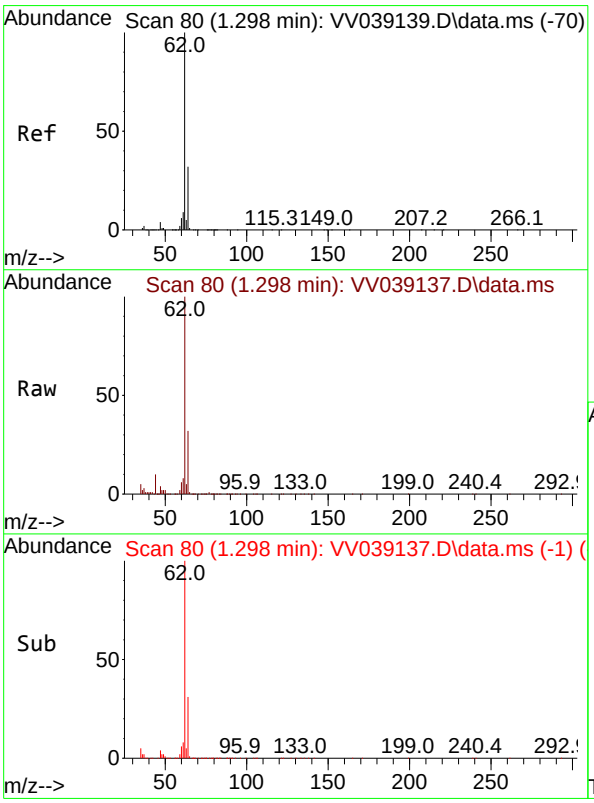

#3
Chloromethane
Concen: 11.167 ug/l
RT: 1.230 min Scan# 5
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion: 50 Resp: 95215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 29.8 | 26.0 | 39.0 |

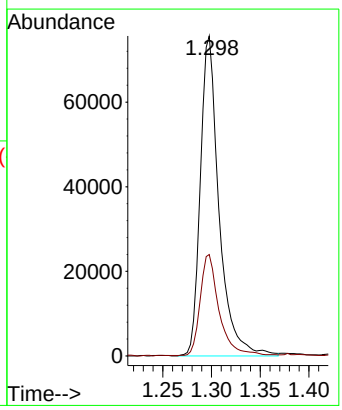


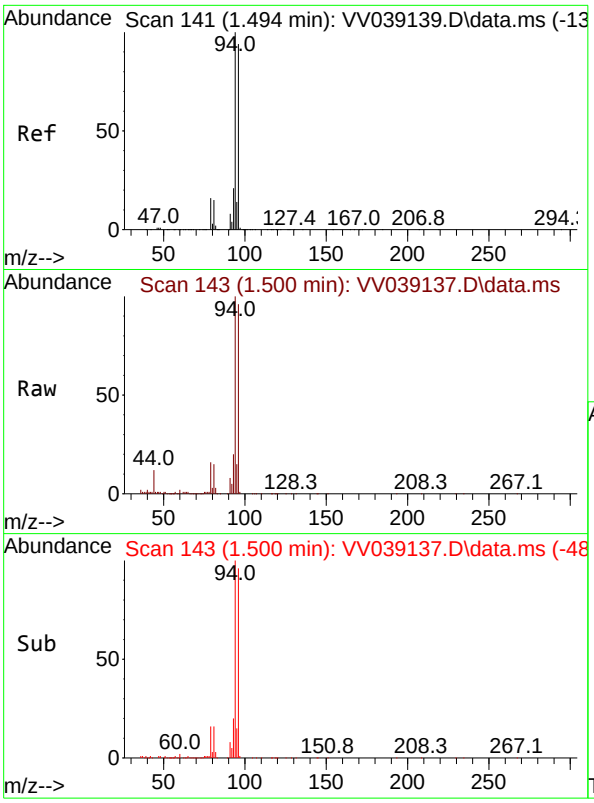




#4
Vinyl Chloride
Concen: 11.068 ug/l
RT: 1.298 min Scan# 80
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 62 Resp: 101023

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.5 | 25.6 | 38.4 |



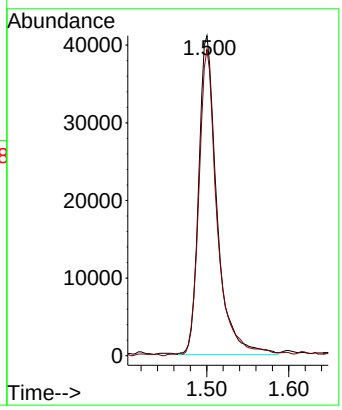


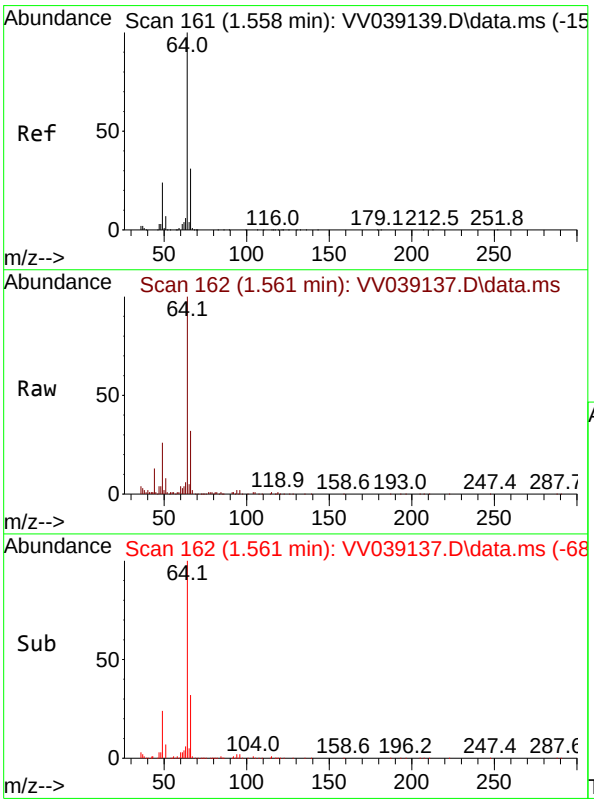

#5
Bromomethane
Concen: 11.011 ug/l
RT: 1.500 min Scan# 14
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion: 94 Resp: 63359

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 95.4 | 74.9 | 112.3 |

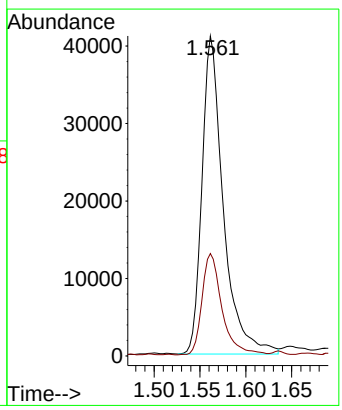


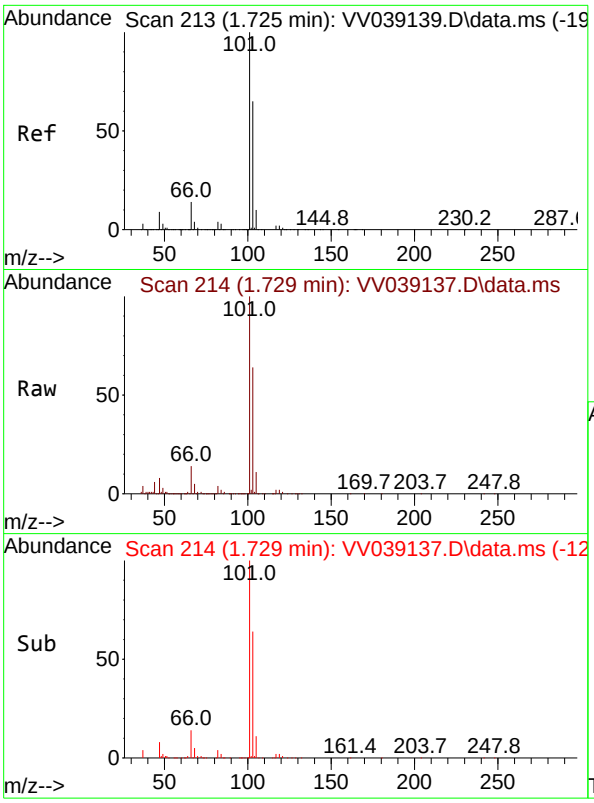




#6
Chloroethane
Concen: 11.087 ug/l
RT: 1.561 min Scan# 162
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 64 Resp: 66412

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.8 | 24.6 | 36.8 |



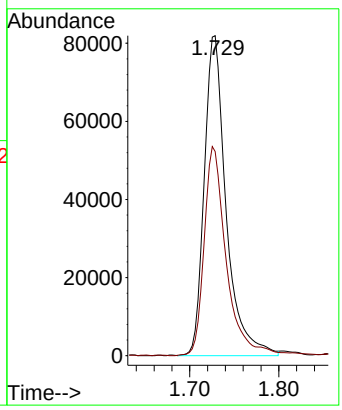


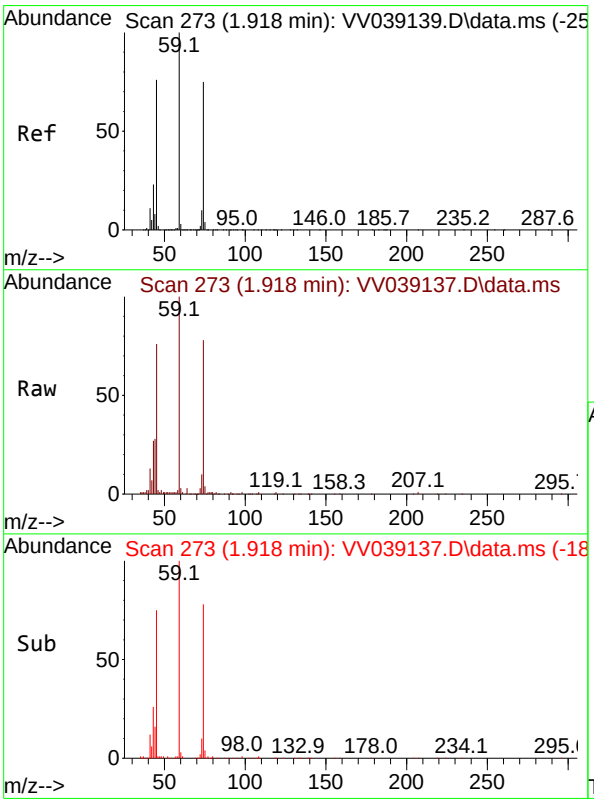

#7
Trichlorofluoromethane
Concen: 10.588 ug/l
RT: 1.729 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion:101 Resp: 139927

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.6 | 52.0 | 78.0 |

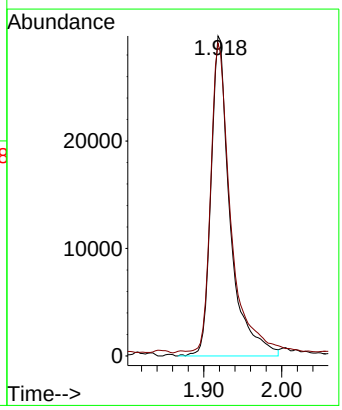


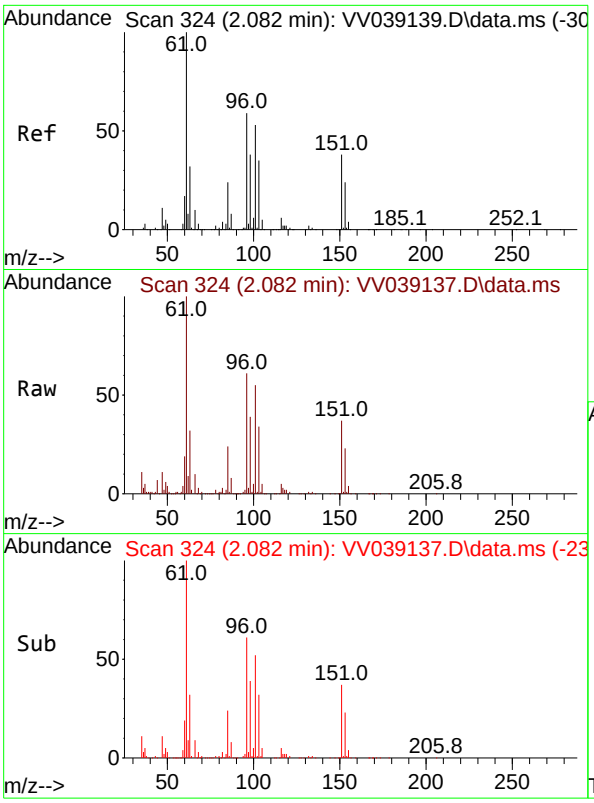




#8
Diethyl Ether
Concen: 10.328 ug/l
RT: 1.918 min Scan# 273
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 74 Resp: 50669

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 100.7 | 49.6 | 148.8 |



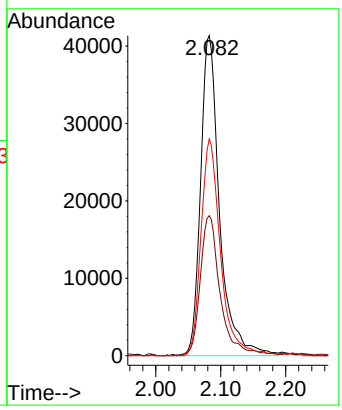


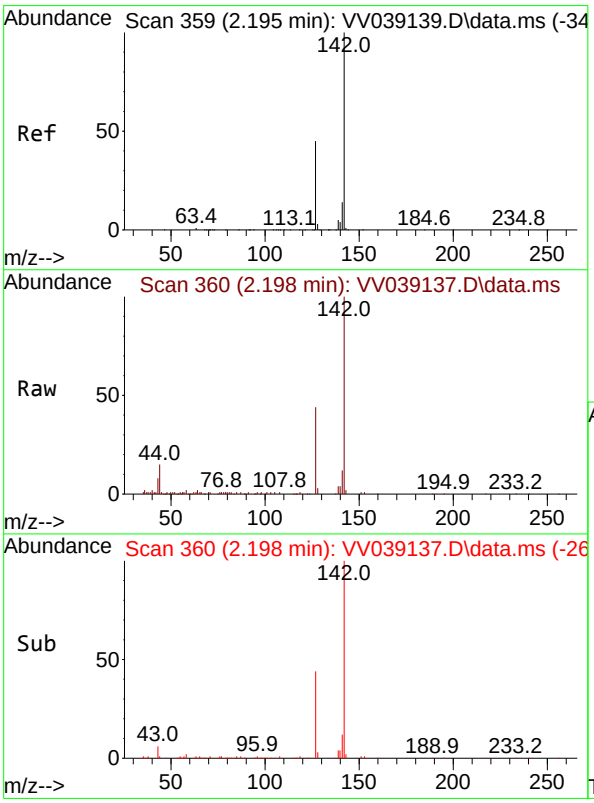

#9
1,1,2-Trichlorotrifluoroethane
Concen: 10.711 ug/l
RT: 2.082 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion:101 Resp: 84221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 45.5 | 36.2 | 54.2 |
| 151 | 69.6 | 56.3 | 84.5 |

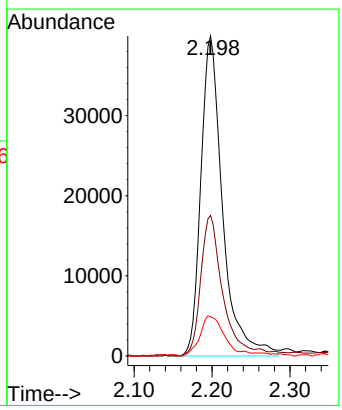


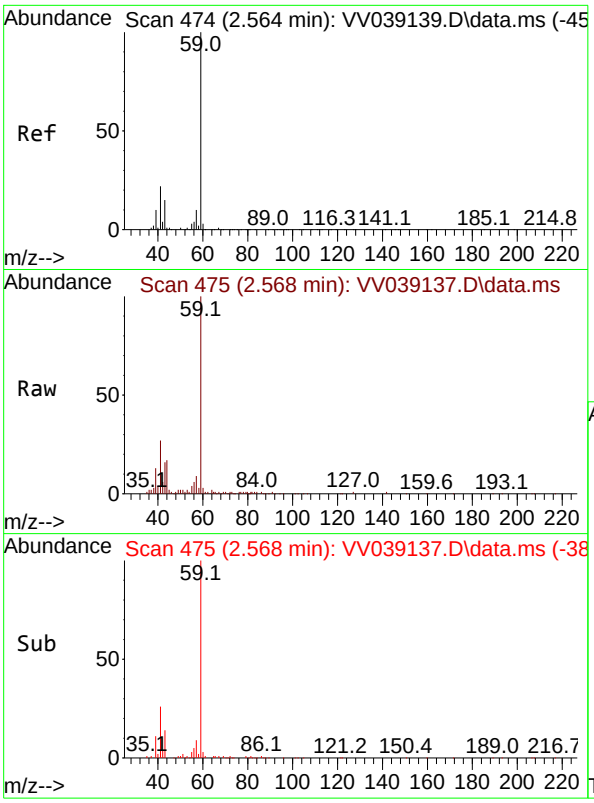




#10
Methyl Iodide
Concen: 10.343 ug/l
RT: 2.198 min Scan# 360
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:142 Resp: 77448

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 43.6 | 36.3 | 54.5 |
| 141 | 13.5 | 11.2 | 16.8 |



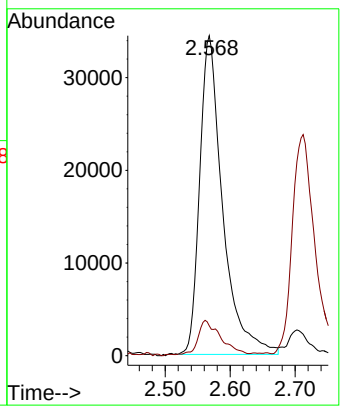


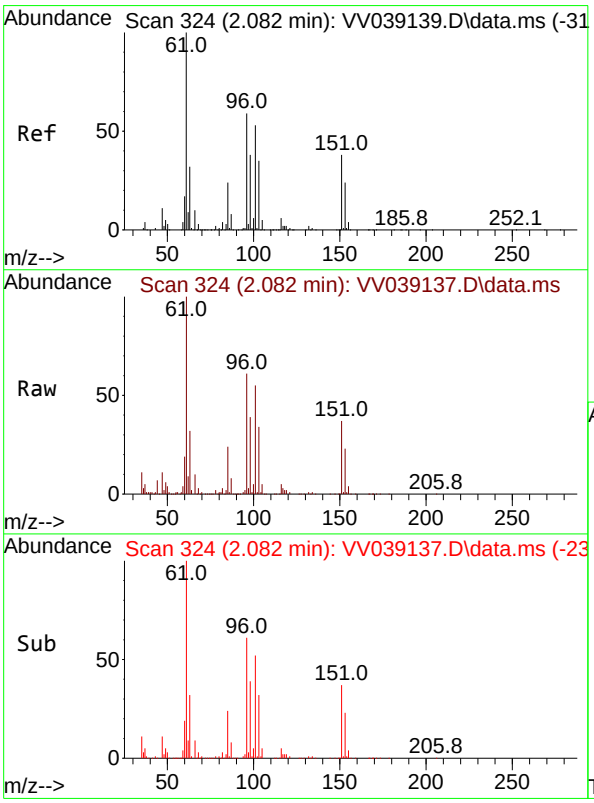

#11
Tert butyl alcohol
Concen: 55.130 ug/l
RT: 2.568 min Scan# 4
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion: 59 Resp: 84609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.3 | 7.8 | 11.8 |

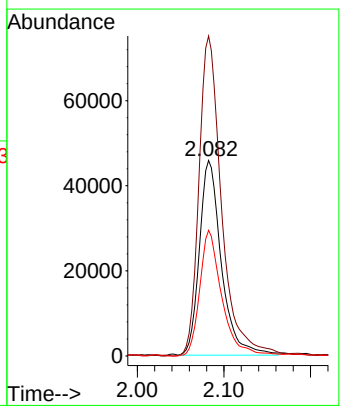


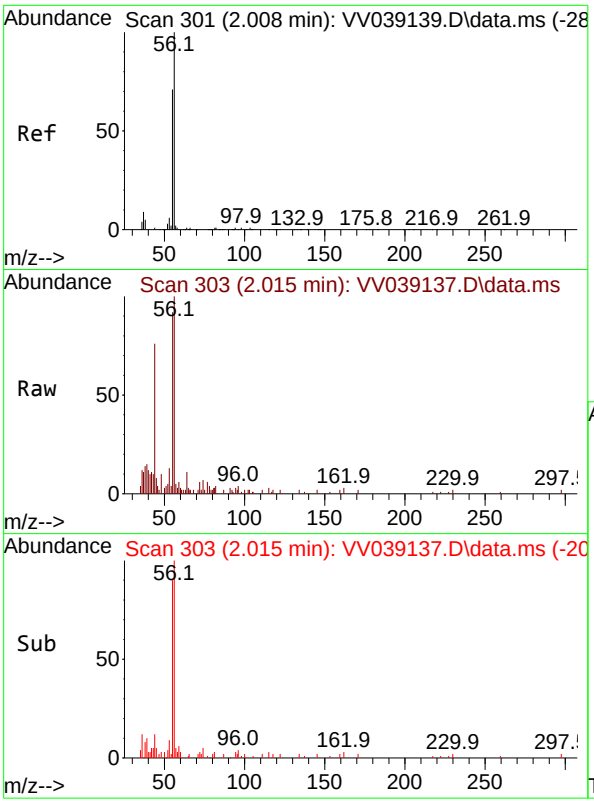




#12
1,1-Dichloroethene
Concen: 10.669 ug/l
RT: 2.082 min Scan# 324
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 96 Resp: 80704

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 164.2 | 136.0 | 204.0 |
| 98 | 64.6 | 51.0 | 76.6 |



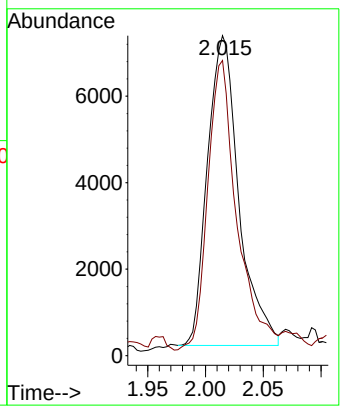


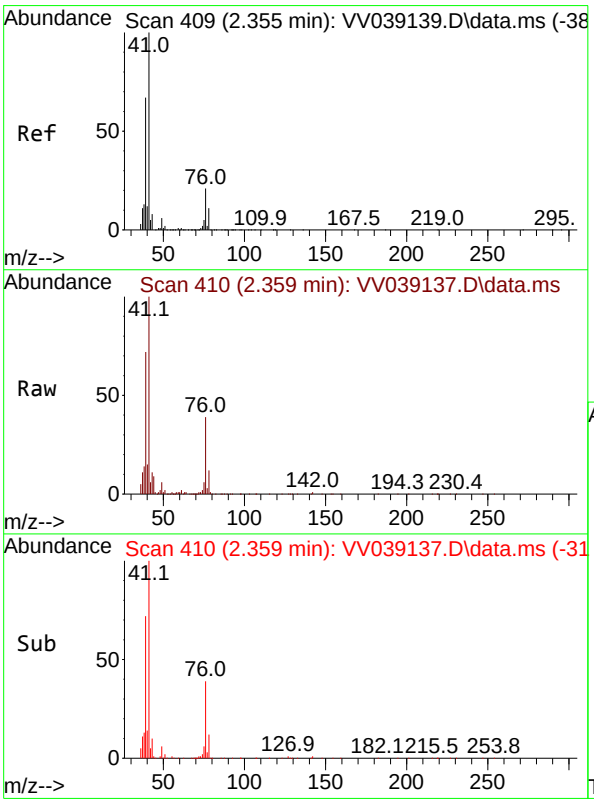

#13
Acrolein
Concen: 50.908 ug/l
RT: 2.015 min Scan# 3
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion: 56 Resp: 13557

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 86.9 | 56.2 | 84.4# |

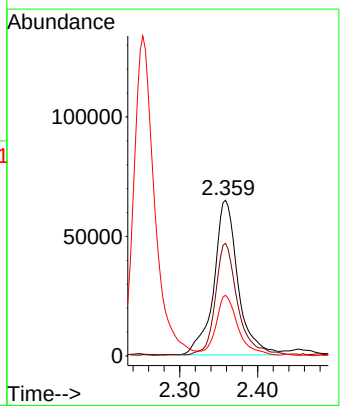


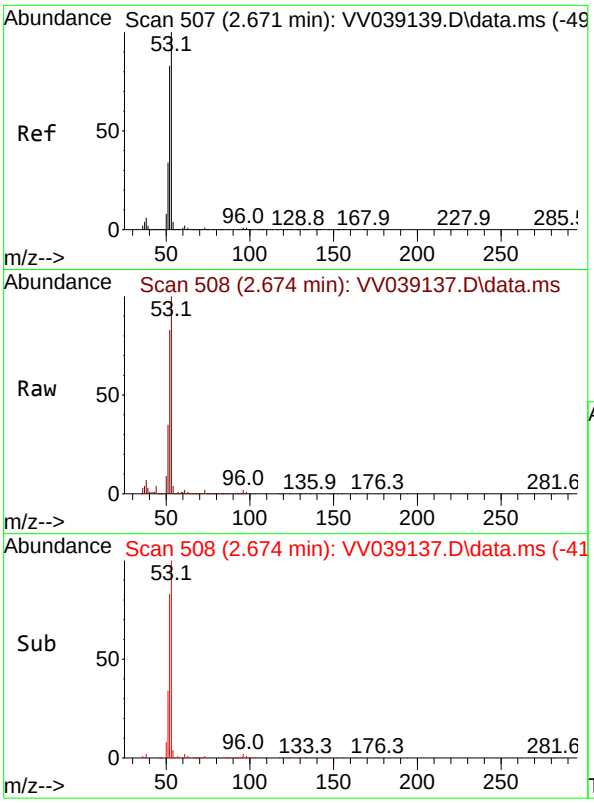




#14
Allyl chloride
Concen: 10.305 ug/l
RT: 2.359 min Scan# 410
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 41 Resp: 139249

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 66.2 | 51.0 | 76.6 |
| 76 | 35.0 | 28.2 | 42.4 |



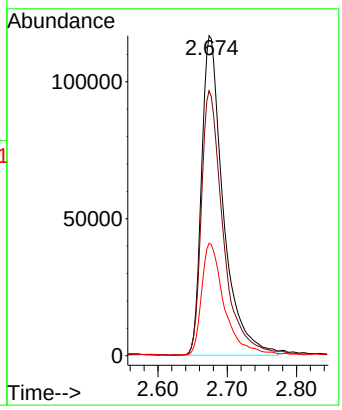


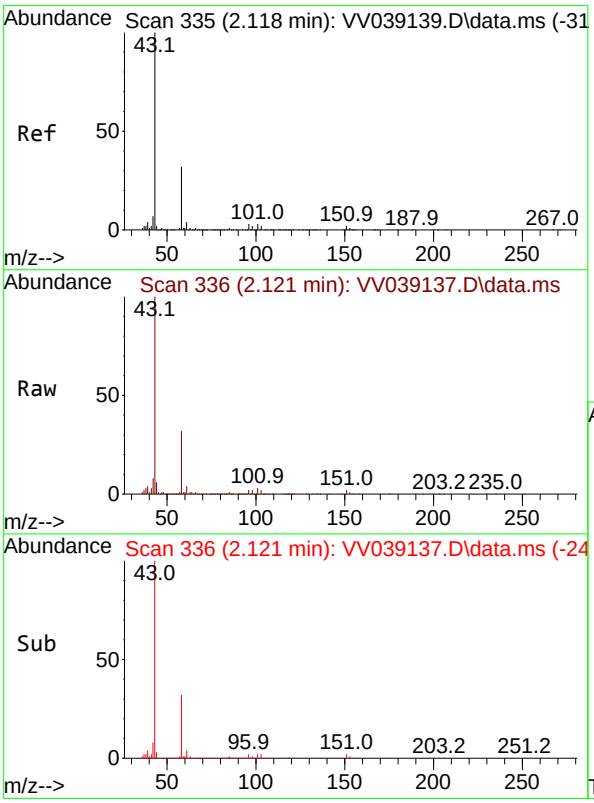

#15
Acrylonitrile
Concen: 51.676 ug/l
RT: 2.674 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion: 53 Resp: 254235

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 83.1 | 66.1 | 99.1 |
| 51 | 36.5 | 28.5 | 42.7 |

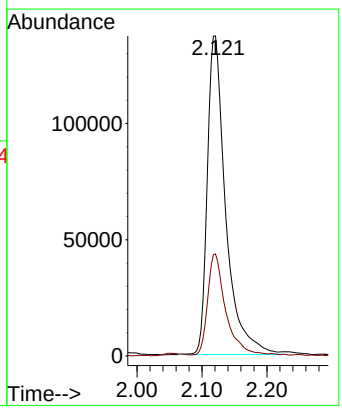


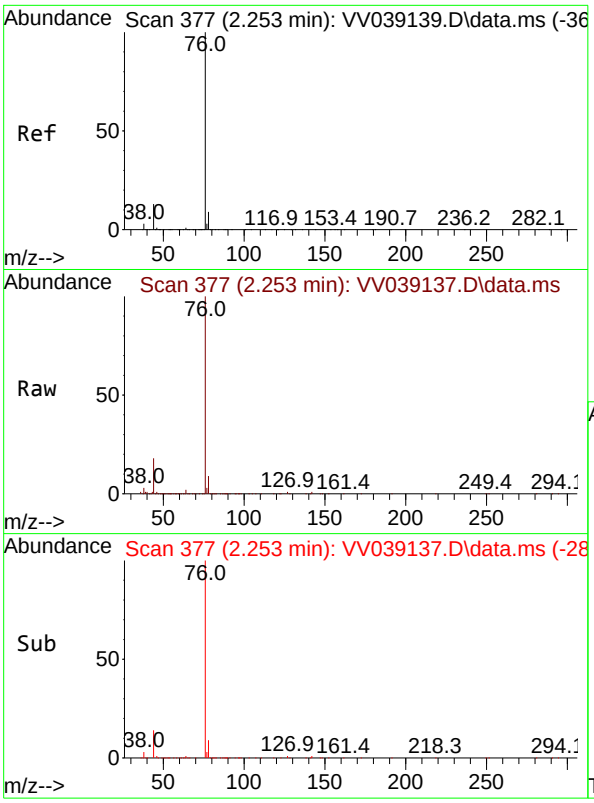




#16
Acetone
Concen: 53.773 ug/l
RT: 2.121 min Scan# 336
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 43 Resp: 269573

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.6 | 25.8 | 38.6 |



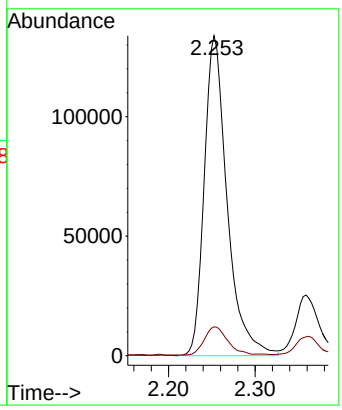


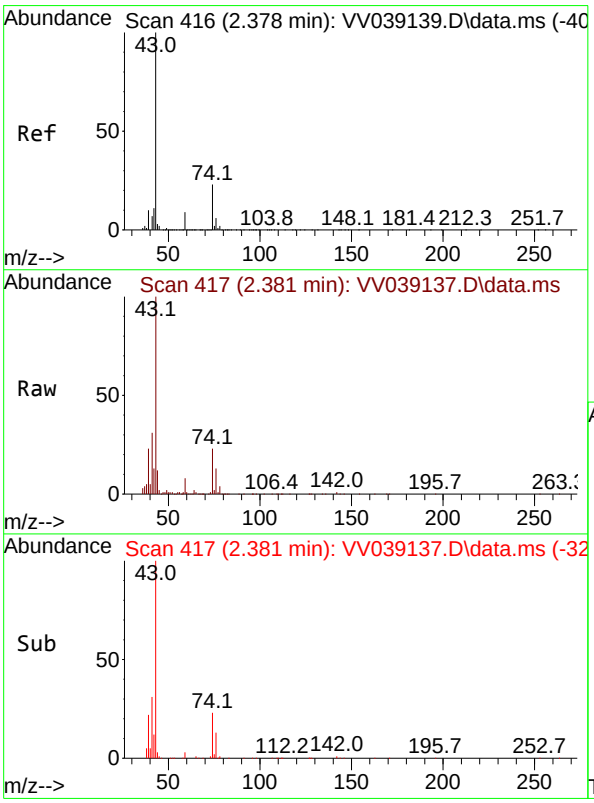

#17
Carbon Disulfide
Concen: 10.639 ug/l
RT: 2.253 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion: 76 Resp: 246125

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.8 | 7.4 | 11.0 |

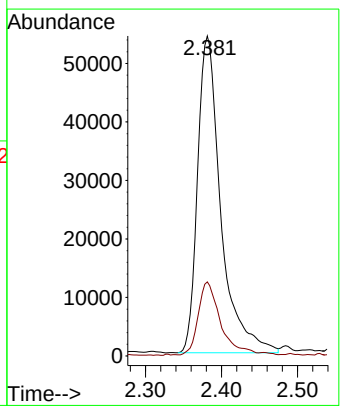


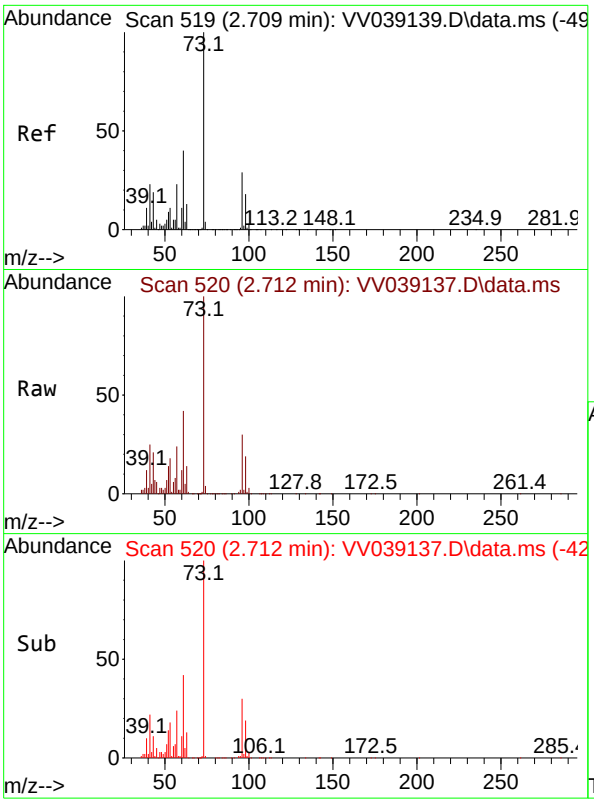




#18
Methyl Acetate
Concen: 10.689 ug/l
RT: 2.381 min Scan# 417
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 43 Resp: 115005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 21.9 | 18.6 | 27.8 |



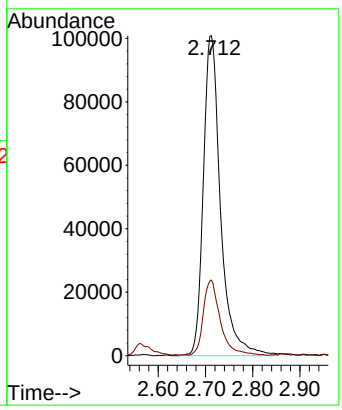


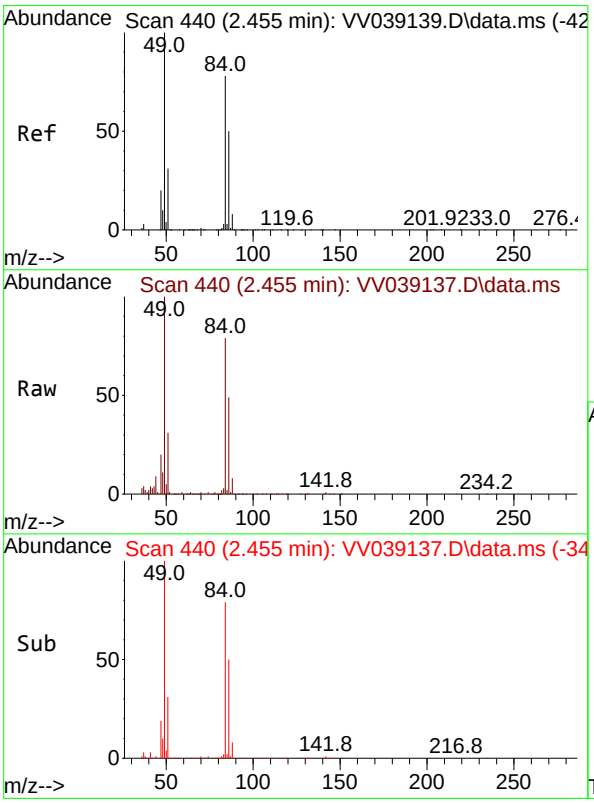

#19
Methyl tert-butyl Ether
Concen: 10.601 ug/l
RT: 2.712 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion: 73 Resp: 255535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 23.4 | 18.2 | 27.4 |

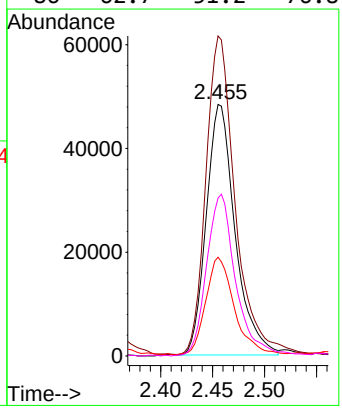


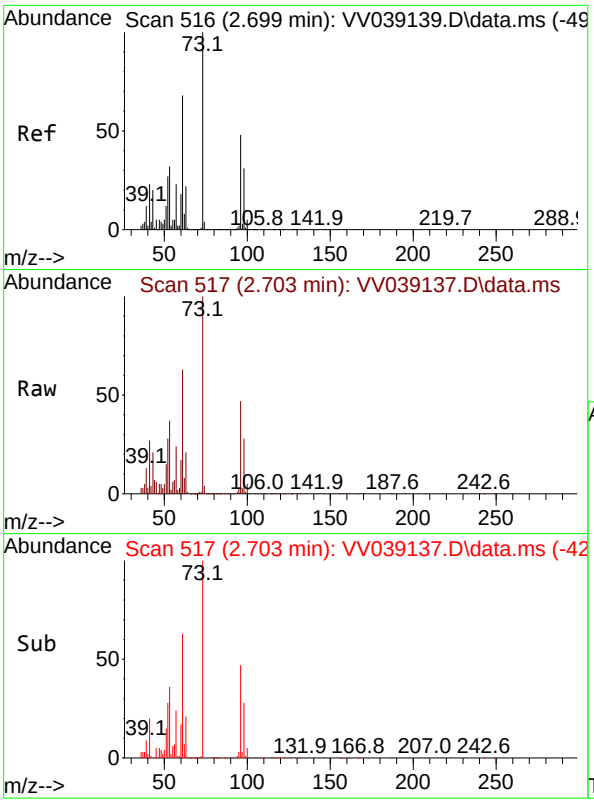




#20
Methylene Chloride
Concen: 10.106 ug/l
RT: 2.455 min Scan# 440
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 84 Resp: 93350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 127.1 | 102.8 | 154.2 |
| 51 | 38.7 | 31.9 | 47.9 |
| 86 | 62.7 | 51.2 | 76.8 |



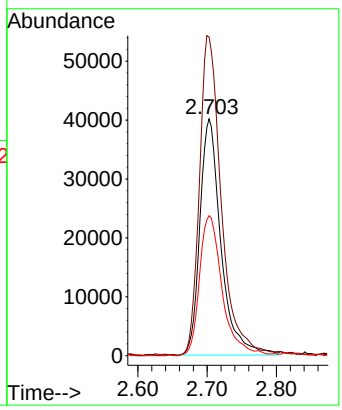


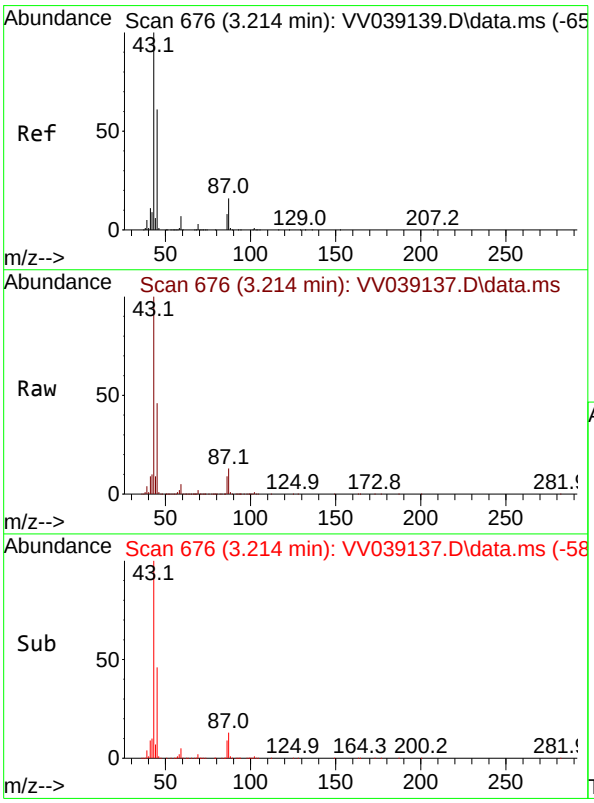

#21
trans-1,2-Dichloroethene
Concen: 10.541 ug/l
RT: 2.703 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion: 96 Resp: 84891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 135.3 | 112.8 | 169.2 |
| 98 | 59.5 | 51.1 | 76.7 |

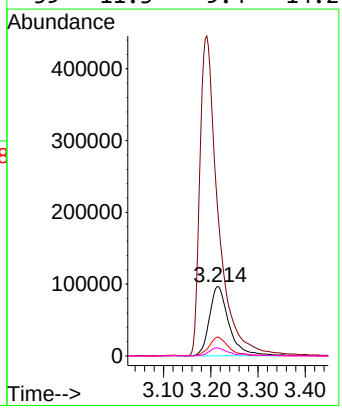


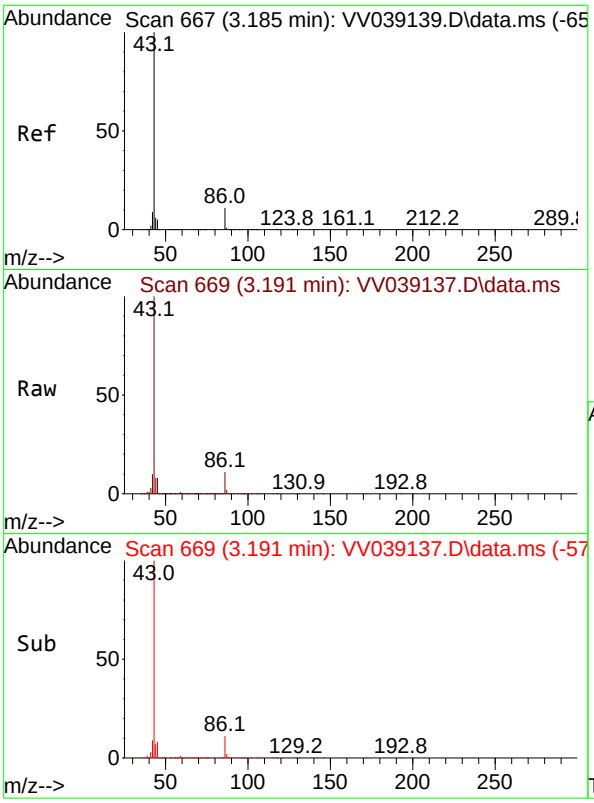




#22
Diisopropyl ether
Concen: 10.699 ug/l
RT: 3.214 min Scan# 676
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 45 Resp: 276604

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 215.7 | 130.9 | 196.3# |
| 87 | 26.8 | 21.1 | 31.7 |
| 59 | 11.3 | 9.4 | 14.2 |



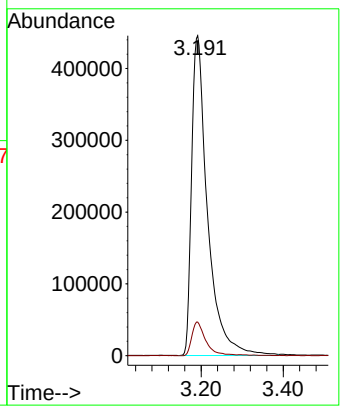


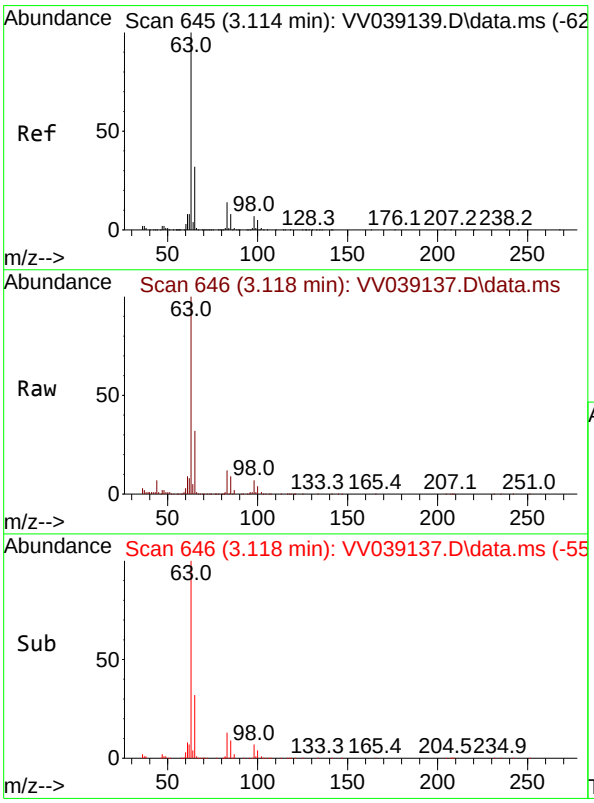

#23
Vinyl Acetate
Concen: 53.087 ug/l
RT: 3.191 min Scan# 6
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion: 43 Resp: 1200618

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.5 | 8.4 | 12.6 |

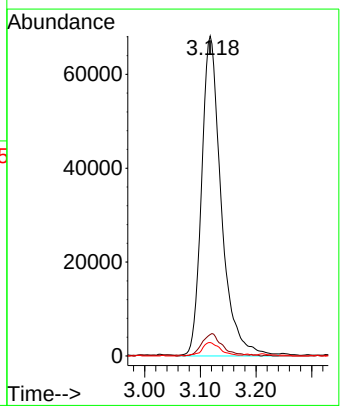


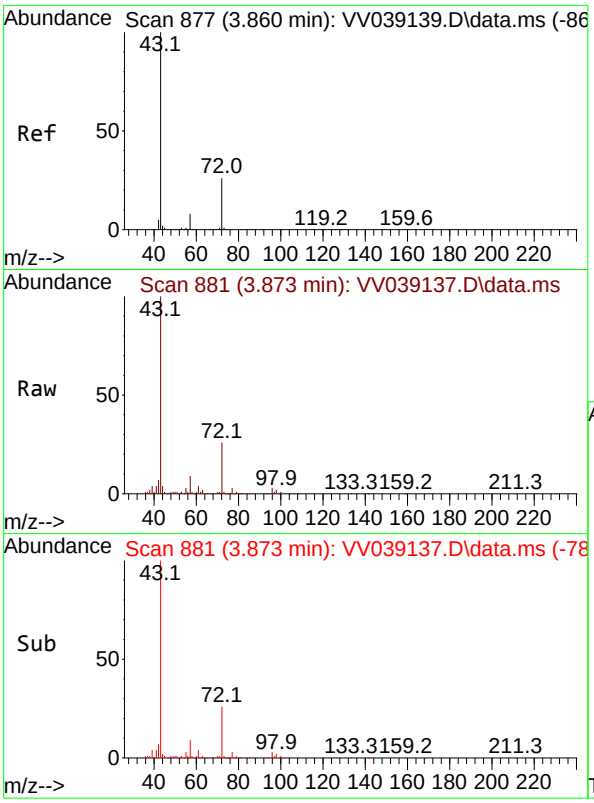




#24
1,1-Dichloroethane
Concen: 10.594 ug/l
RT: 3.118 min Scan# 646
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 63 Resp: 167496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.7 | 3.4 | 10.2 |
| 100 | 4.2 | 2.2 | 6.6 |



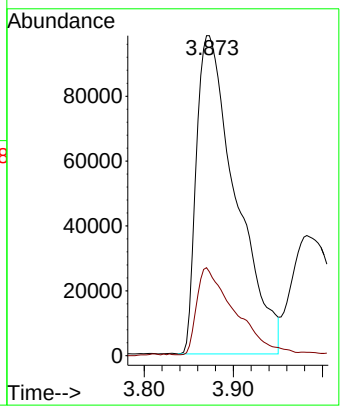


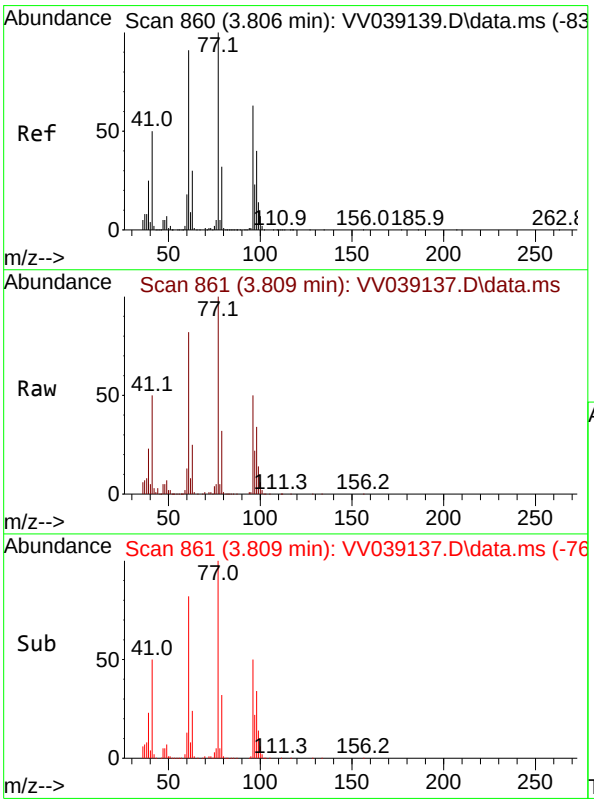

#25
2-Butanone
Concen: 53.015 ug/l
RT: 3.873 min Scan# 8
Delta R.T. 0.013 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion: 43 Resp: 303016

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 26.0 | 21.0 | 31.6 |

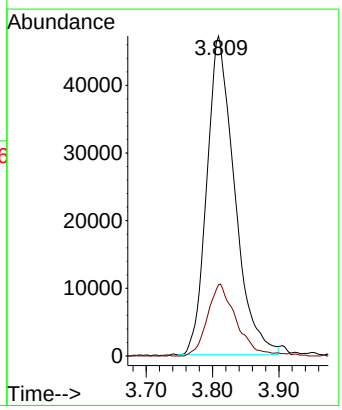


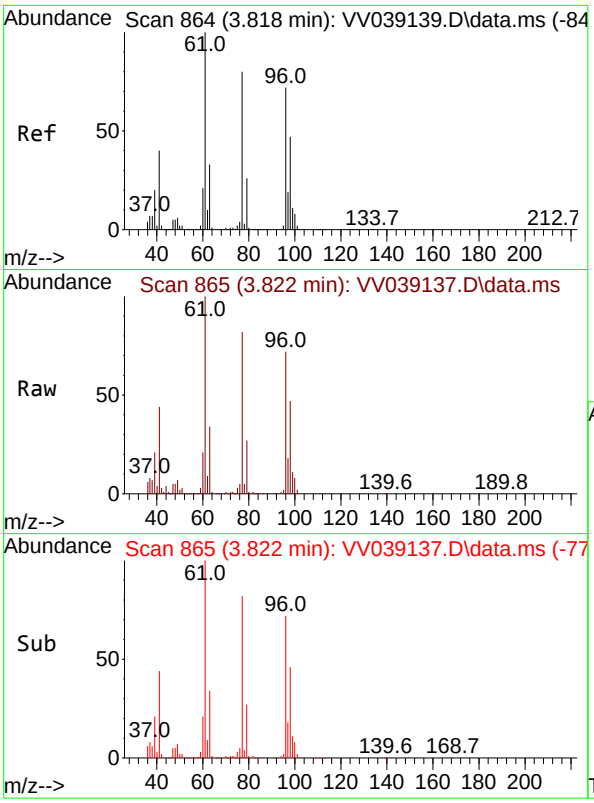




#26
2,2-Dichloropropane
Concen: 9.806 ug/l
RT: 3.809 min Scan# 861
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 77 Resp: 136919

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.1 | 11.6 | 34.7 |



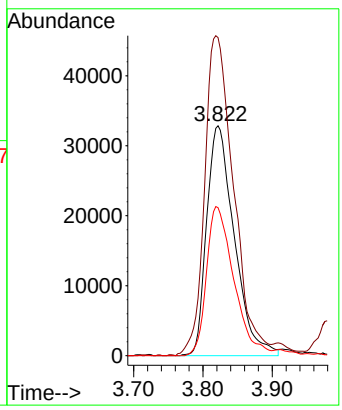


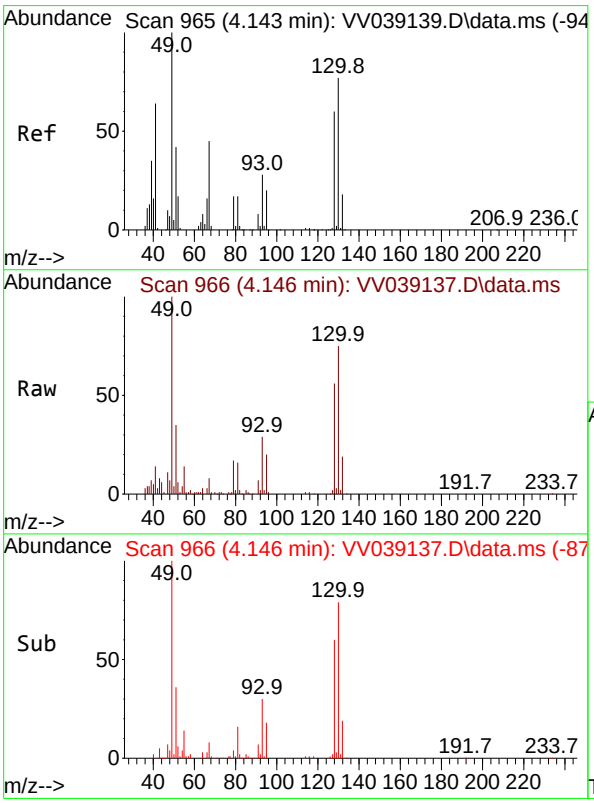

#27
cis-1,2-Dichloroethene
Concen: 10.254 ug/l
RT: 3.822 min Scan# 8
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion: 96 Resp: 91069

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 145.4 | 0.0 | 286.4 |
| 98 | 63.9 | 0.0 | 126.6 |

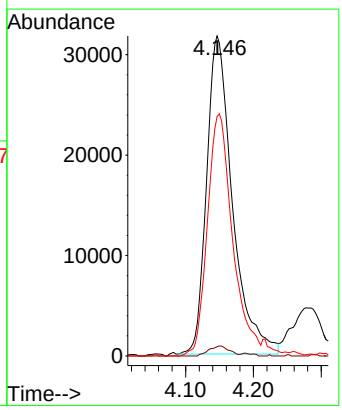


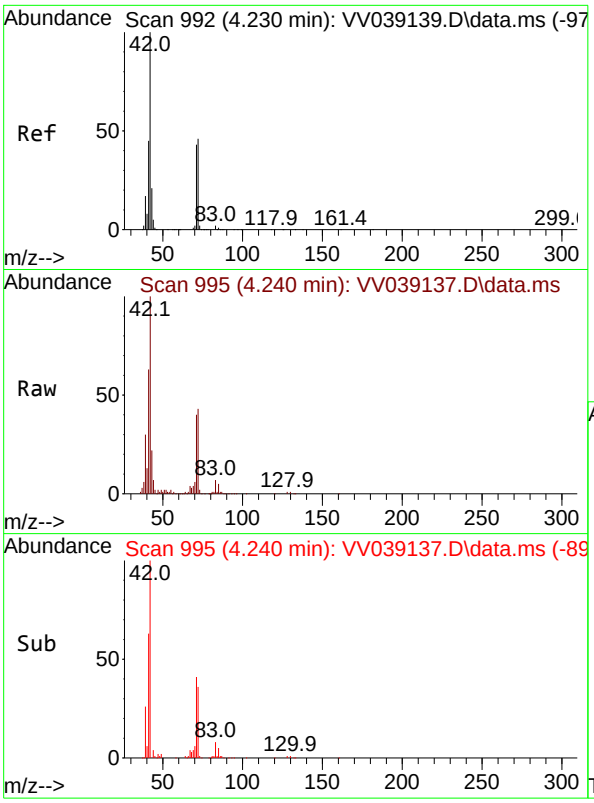




#28
Bromochloromethane
Concen: 12.019 ug/l
RT: 4.146 min Scan# 966
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 49 Resp: 83889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.5 | 0.0 | 4.2 |
| 130 | 73.9 | 60.2 | 90.2 |



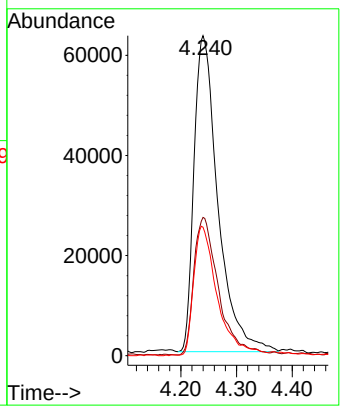


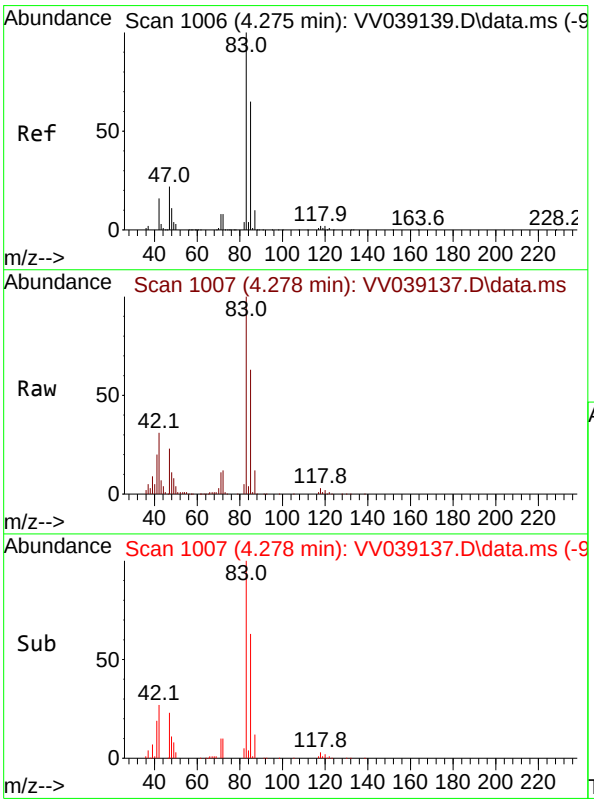

#29
Tetrahydrofuran
Concen: 51.879 ug/l
RT: 4.240 min Scan# 9
Delta R.T. 0.010 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion: 42 Resp: 188818

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 43.7 | 36.3 | 54.5 |
| 71 | 40.0 | 34.3 | 51.5 |

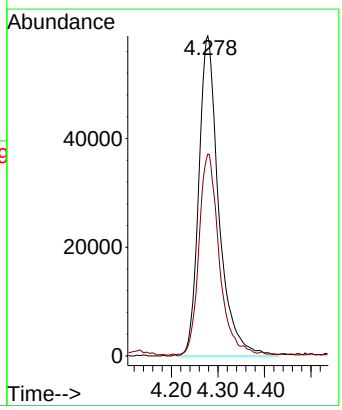


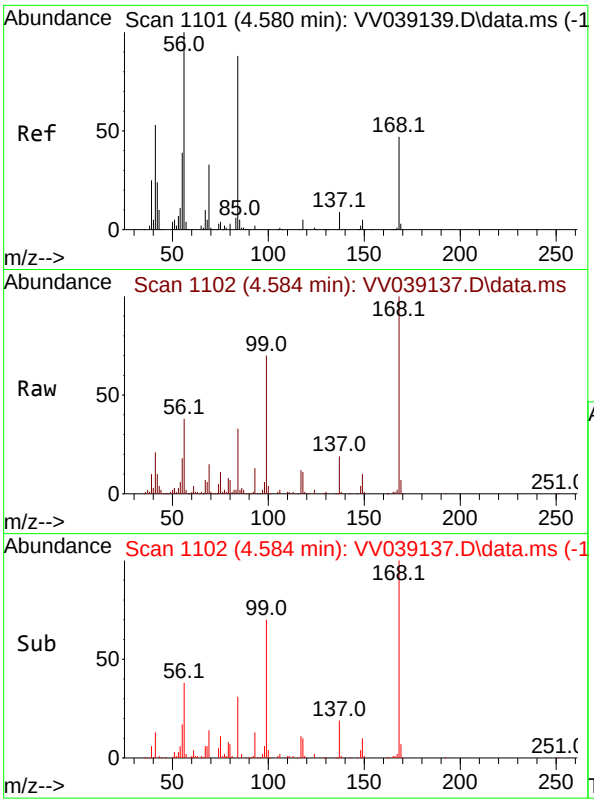




#30
Chloroform
Concen: 10.652 ug/l
RT: 4.278 min Scan# 1007
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 83 Resp: 175847

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.6 | 52.1 | 78.1 |



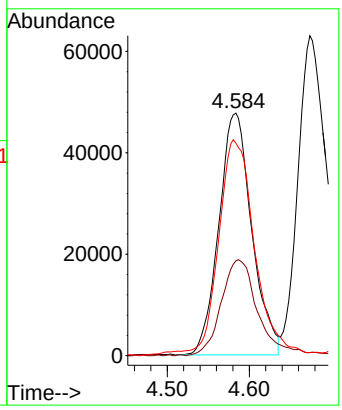


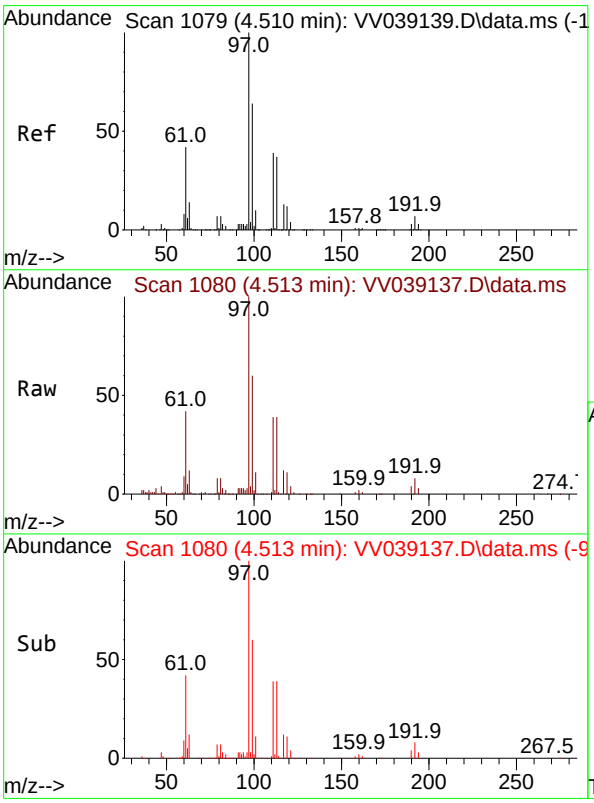

#31
Cyclohexane
Concen: 10.269 ug/l
RT: 4.584 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion: 56 Resp: 132996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 38.9 | 26.2 | 39.2 |
| 84 | 86.0 | 70.3 | 105.5 |

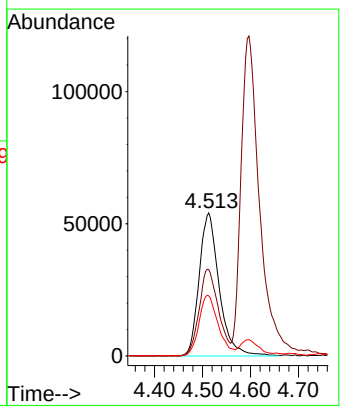


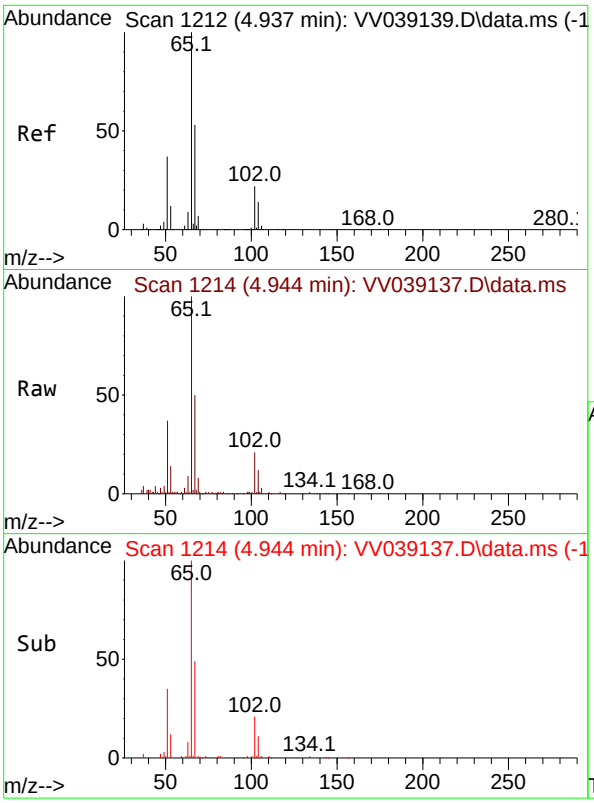




#32
1,1,1-Trichloroethane
Concen: 10.966 ug/l
RT: 4.513 min Scan# 1080
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 97 Resp: 156733

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 58.2 | 49.6 | 74.4 |
| 61 | 40.9 | 34.5 | 51.7 |



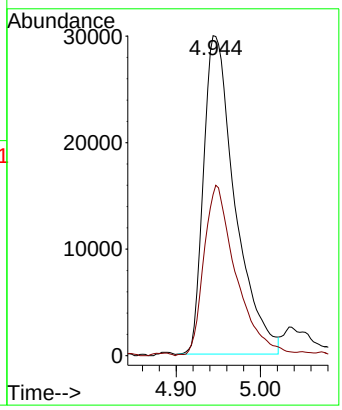


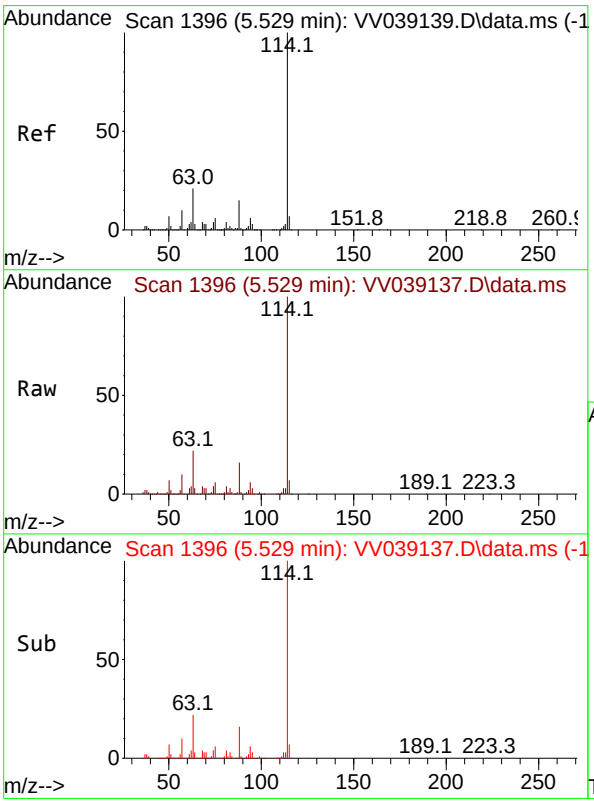

#33
1,2-Dichloroethane-d4
Concen: 10.688 ug/l
RT: 4.944 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion: 65 Resp: 77610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 54.9 | 0.0 | 107.0 |

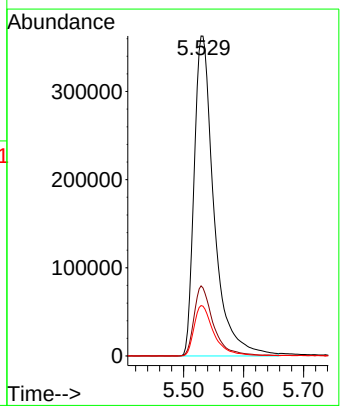


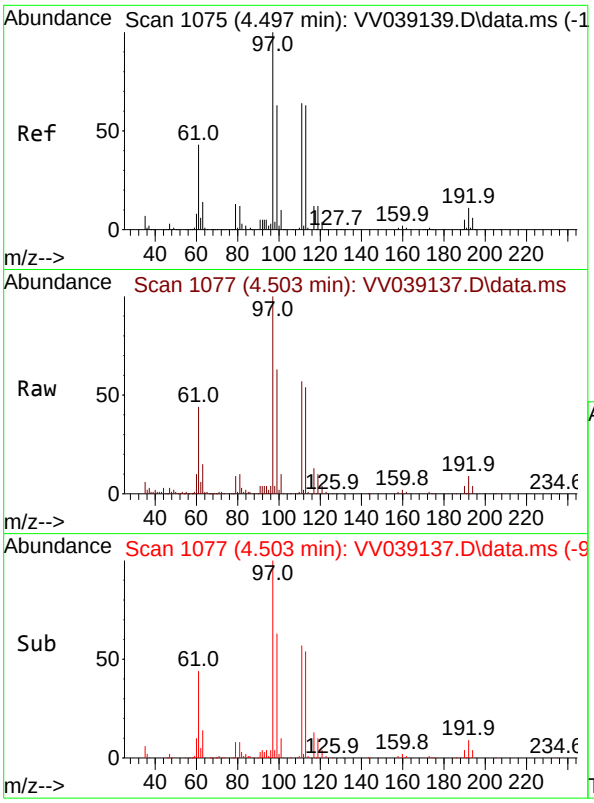




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.529 min Scan# 1396
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:114 Resp: 837272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.9 | 0.0 | 42.6 |
| 88 | 15.8 | 0.0 | 30.8 |



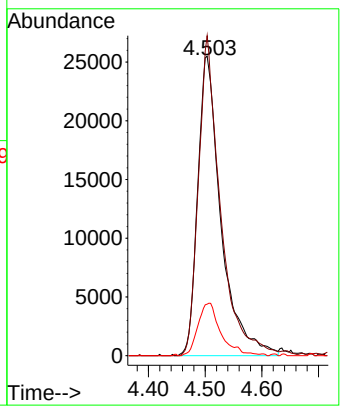


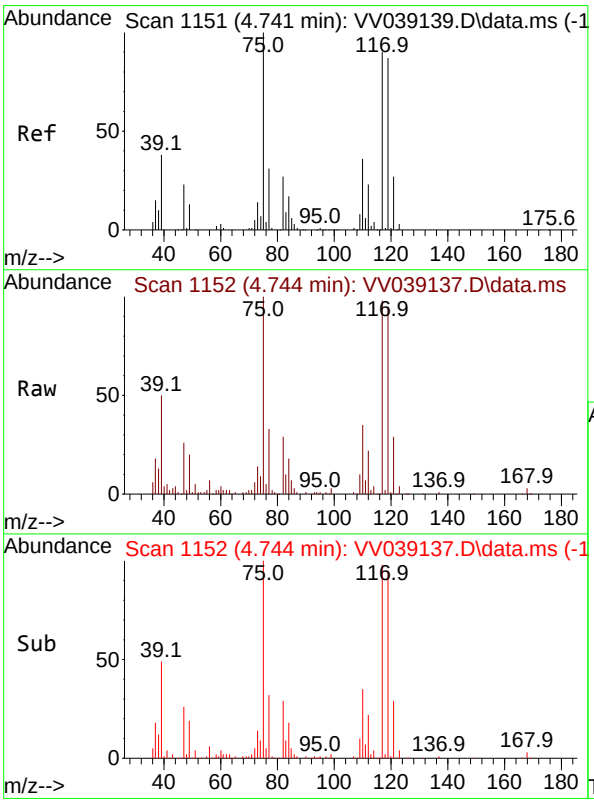

#35
Dibromofluoromethane
Concen: 10.833 ug/l
RT: 4.503 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion:113 Resp: 72914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 100.5 | 82.4 | 123.6 |
| 192 | 17.2 | 13.8 | 20.8 |

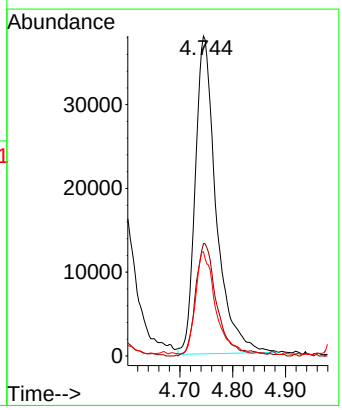


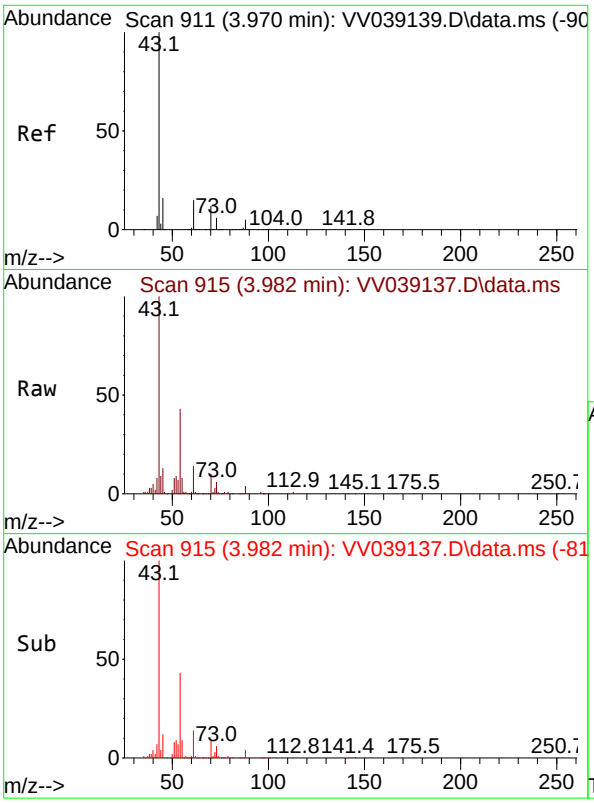




#36
1,1-Dichloropropene
Concen: 10.187 ug/l
RT: 4.744 min Scan# 1152
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 75 Resp: 104420

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.4 | 18.1 | 54.1 |
| 77 | 30.2 | 24.8 | 37.2 |



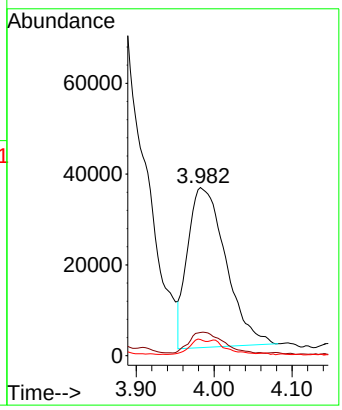


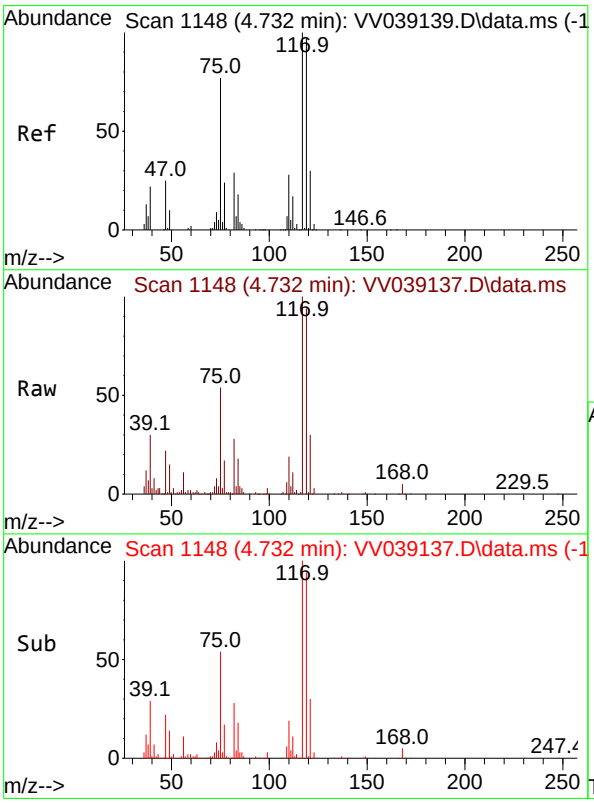

#37
Ethyl Acetate
Concen: 9.520 ug/l
RT: 3.982 min Scan# 9
Delta R.T. 0.012 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion: 43 Resp: 119710

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 11.2 | 10.3 | 15.5 |
| 70 | 4.3 | 8.0 | 12.0# |

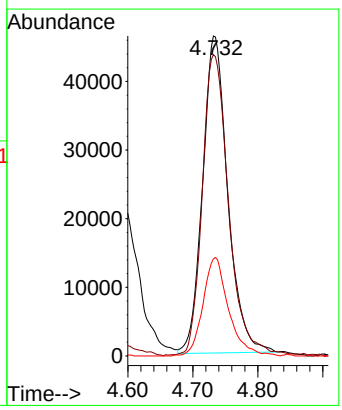


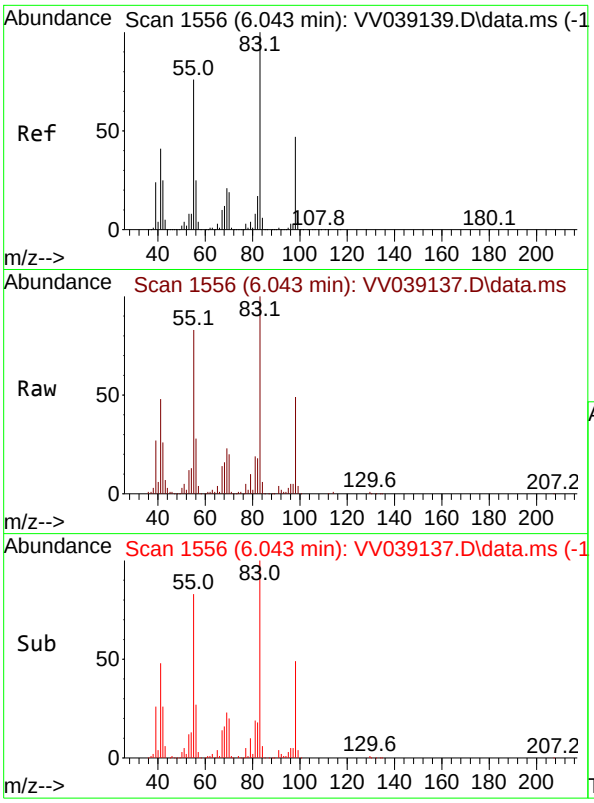




#38
Carbon Tetrachloride
Concen: 10.069 ug/l
RT: 4.732 min Scan# 1148
Delta R.T. -0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:117 Resp: 124321

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.7 | 77.2 | 115.8 |
| 121 | 30.5 | 24.2 | 36.2 |



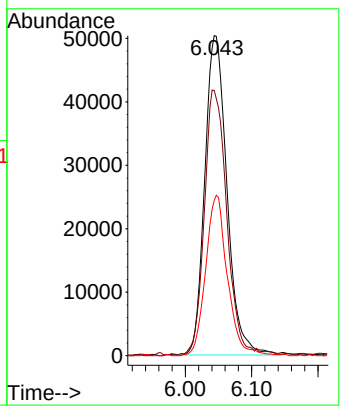


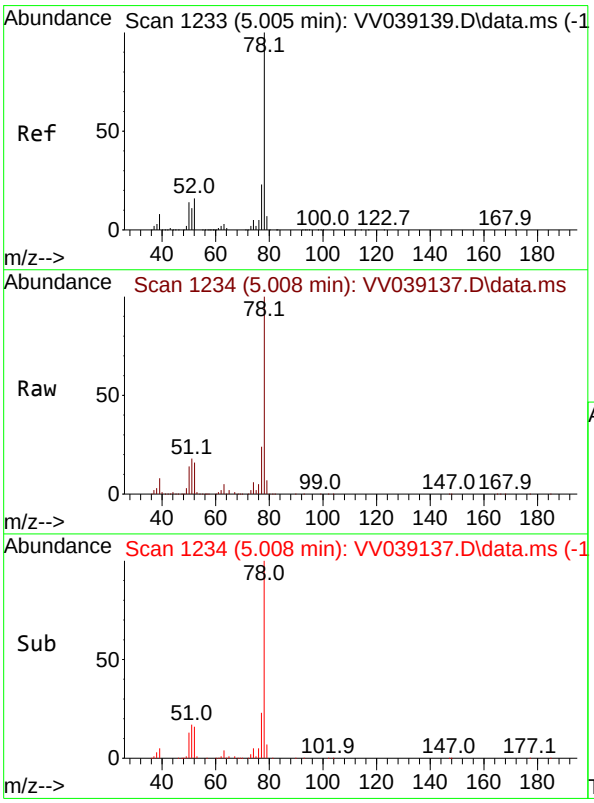

#39
Methylcyclohexane
Concen: 9.549 ug/l
RT: 6.043 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion: 83 Resp: 117354

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 82.7 | 60.5 | 90.7 |
| 98 | 48.6 | 37.8 | 56.6 |

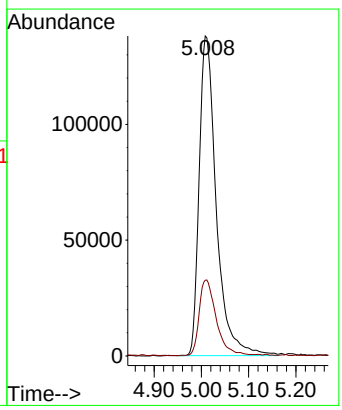


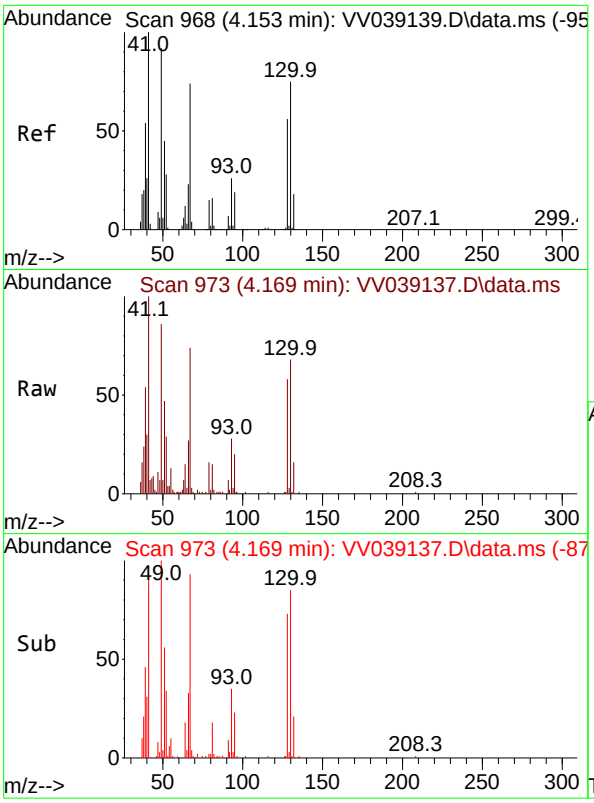




#40
Benzene
Concen: 10.493 ug/l
RT: 5.008 min Scan# 1234
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 78 Resp: 347728

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.5 | 18.7 | 28.1 |



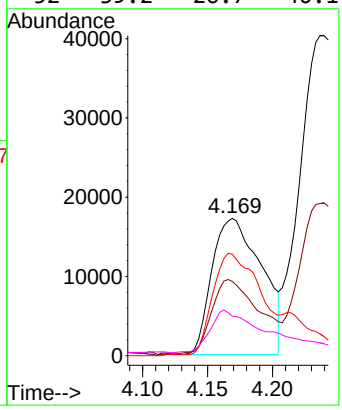


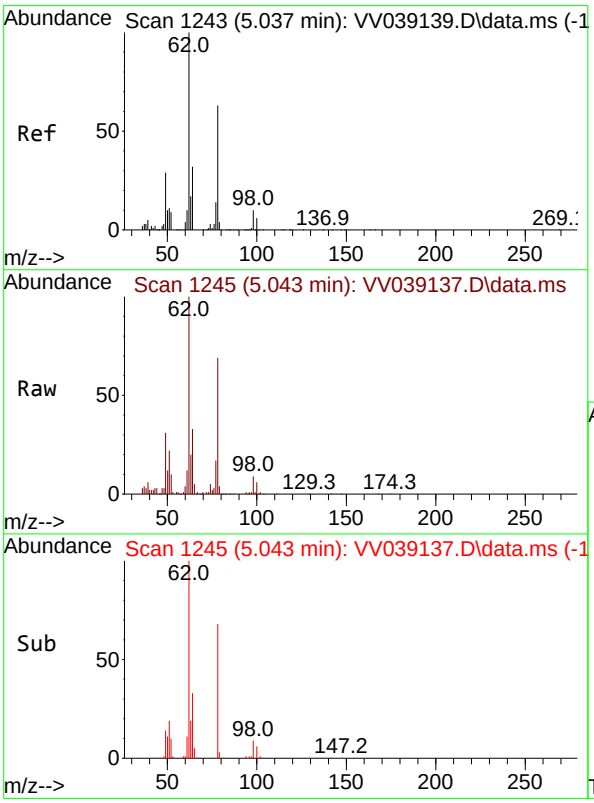

#41
Methacrylonitrile
Concen: 9.764 ug/l
RT: 4.169 min Scan# 9
Delta R.T. 0.016 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion: 41 Resp: 45674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 53.9 | 42.2 | 63.2 |
| 67 | 70.9 | 67.9 | 101.9 |
| 52 | 39.2 | 26.7 | 40.1 |

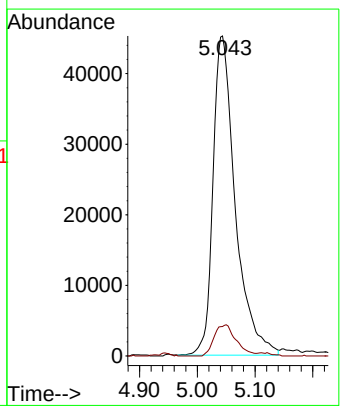


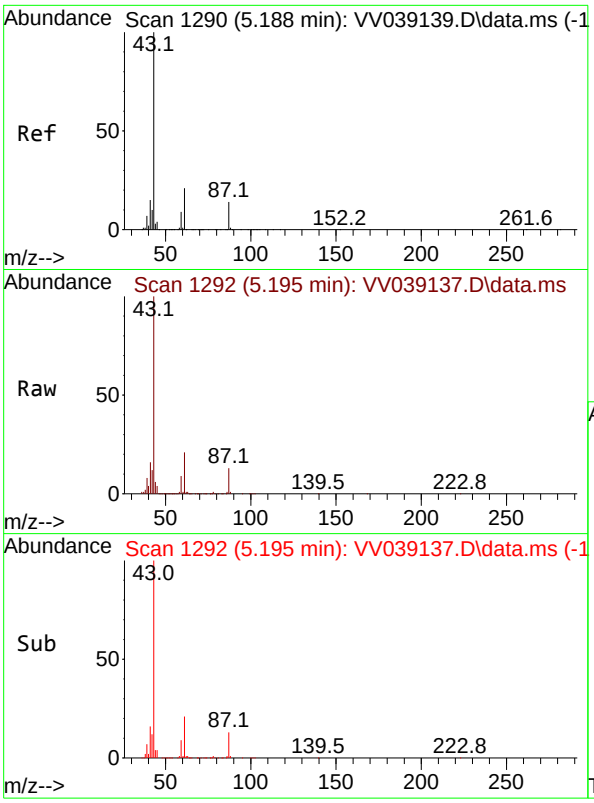




#42
1,2-Dichloroethane
Concen: 10.458 ug/l
RT: 5.043 min Scan# 1245
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 62 Resp: 121437

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.7 | 0.0 | 19.2 |



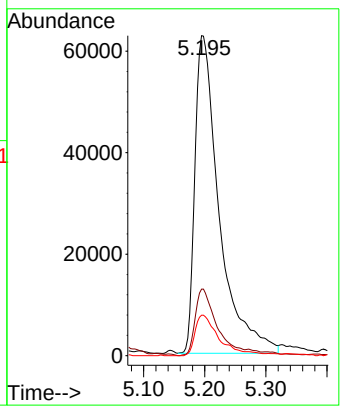


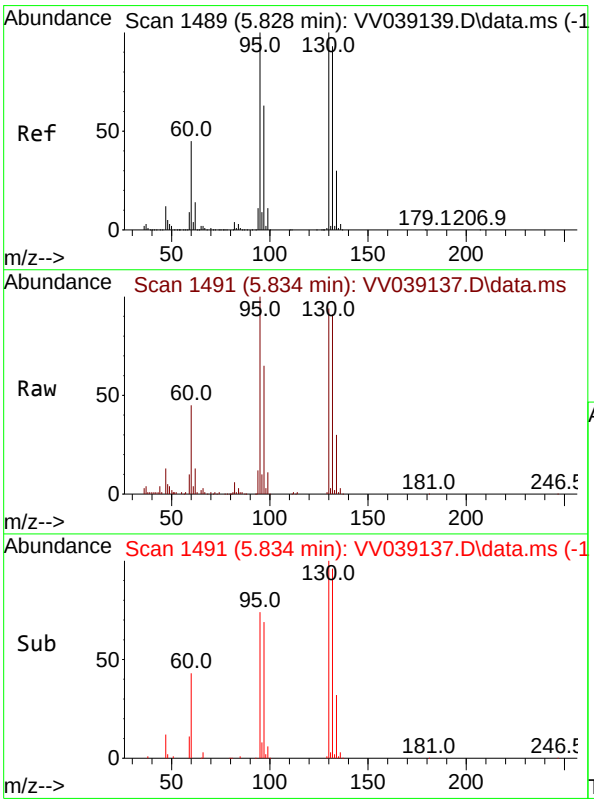

#43
Isopropyl Acetate
Concen: 9.980 ug/l
RT: 5.195 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion: 43 Resp: 172880

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 18.5 | 15.9 | 23.9 |
| 87 | 12.7 | 11.0 | 16.6 |

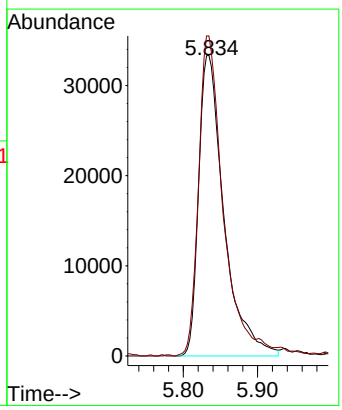


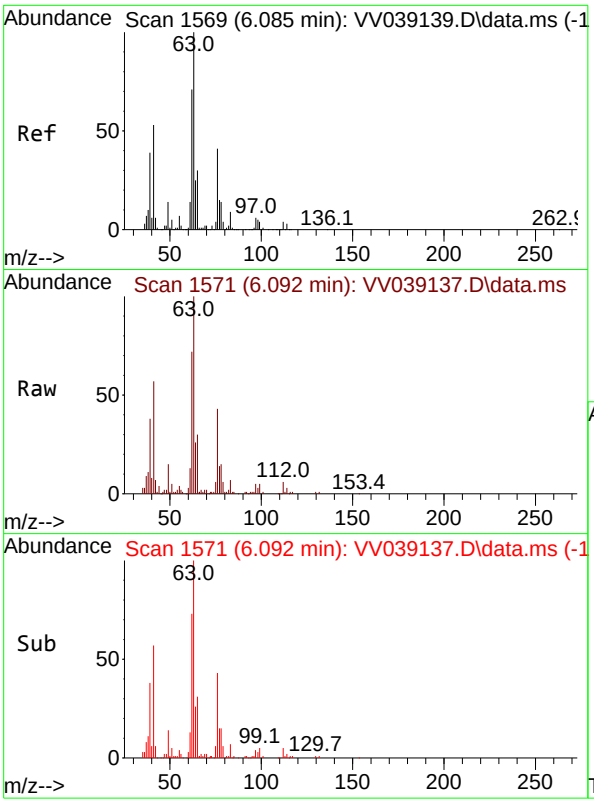




#44
Trichloroethene
Concen: 10.324 ug/l
RT: 5.834 min Scan# 1491
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:130 Resp: 78943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 106.2 | 0.0 | 199.2 |



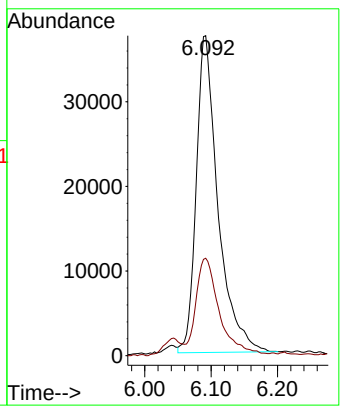


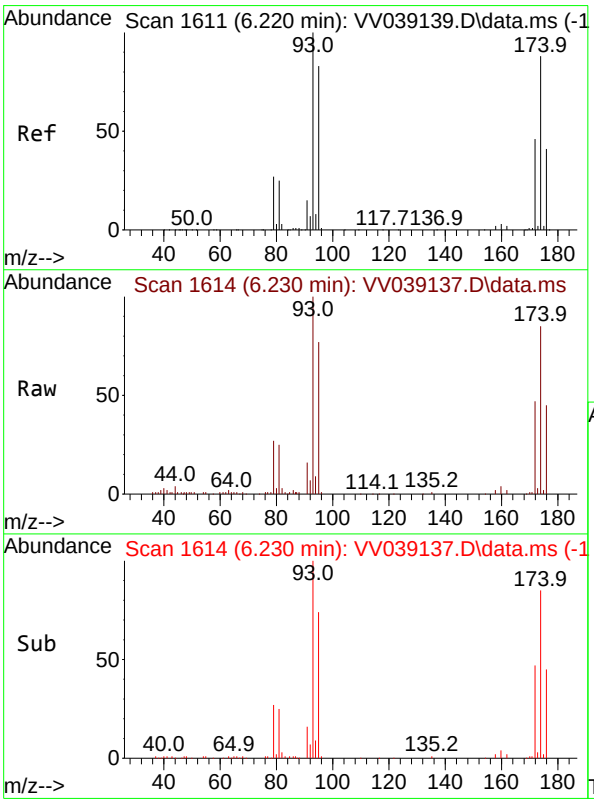

#45
1,2-Dichloropropane
Concen: 10.355 ug/l
RT: 6.092 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion: 63 Resp: 85295

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.3 | 23.7 | 35.5 |

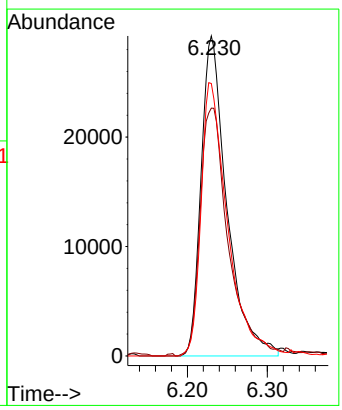


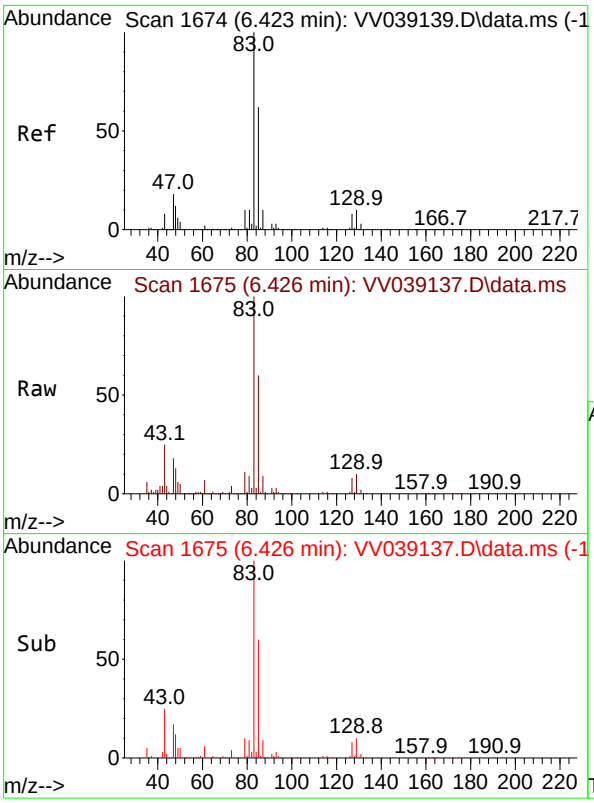




#46
Dibromomethane
Concen: 10.424 ug/l
RT: 6.230 min Scan# 1614
Delta R.T. 0.010 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 93 Resp: 65717

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 84.5 | 65.5 | 98.3 |
| 174 | 87.7 | 69.0 | 103.4 |



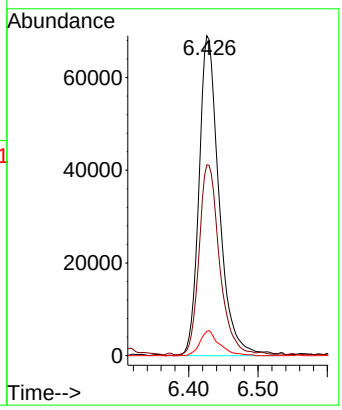


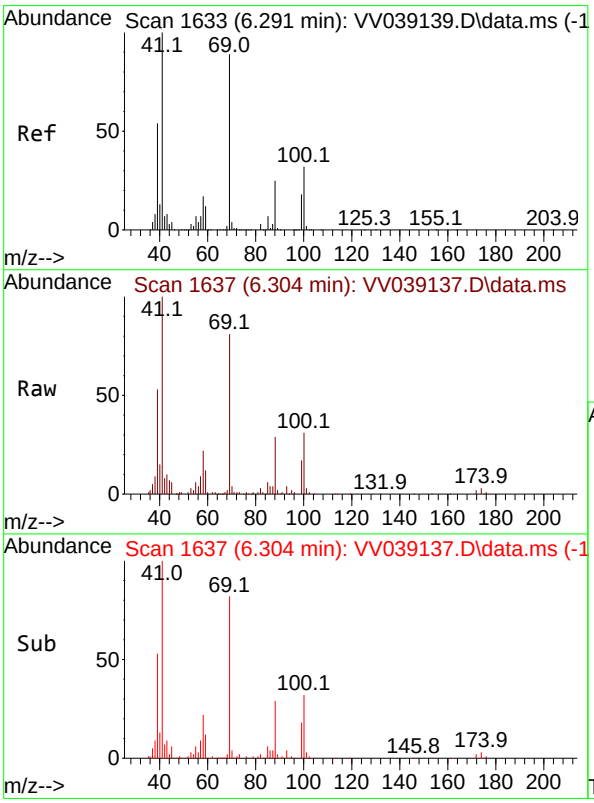

#47
Bromodichloromethane
Concen: 10.685 ug/l
RT: 6.426 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion: 83 Resp: 139261

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 59.3 | 49.7 | 74.5 |
| 127 | 7.6 | 6.6 | 9.8 |

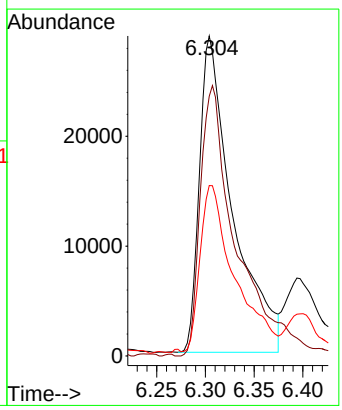


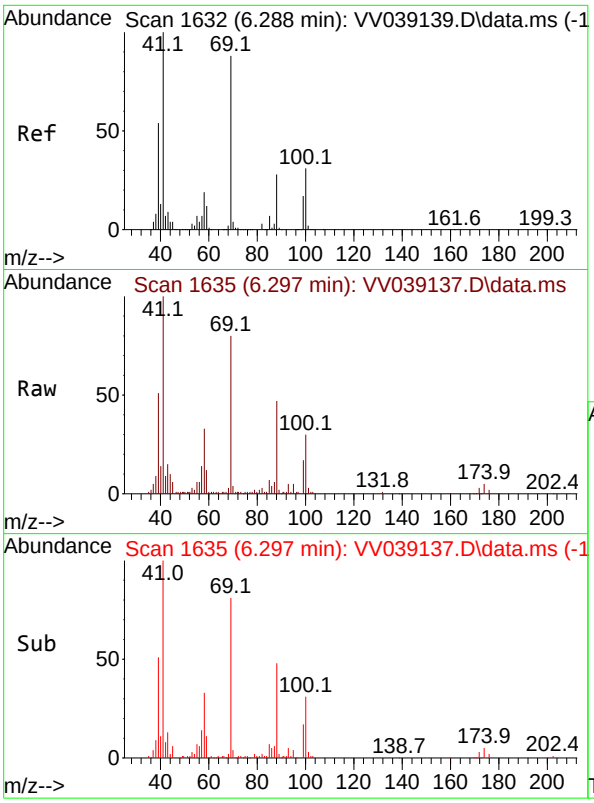




#48
Methyl methacrylate
Concen: 8.639 ug/l
RT: 6.304 min Scan# 1637
Delta R.T. 0.013 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 41 Resp: 68465

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 93.4 | 72.4 | 108.6 |
| 39 | 54.3 | 42.5 | 63.7 |



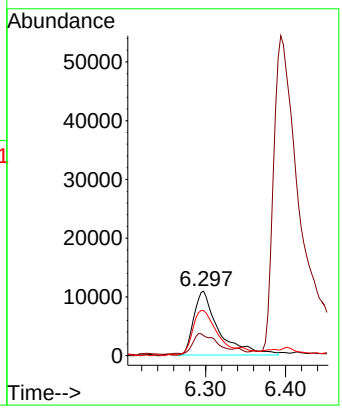


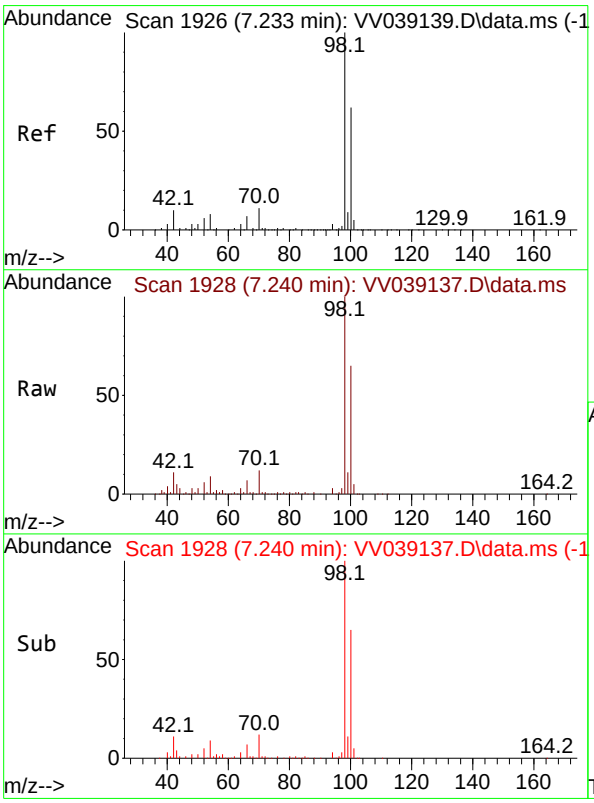

#49
1,4-Dioxane
Concen: 190.260 ug/l
RT: 6.297 min Scan# 1
Delta R.T. 0.010 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion: 88 Resp: 23699

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 31.1 | 25.1 | 37.7 |
| 58 | 65.5 | 53.6 | 80.4 |

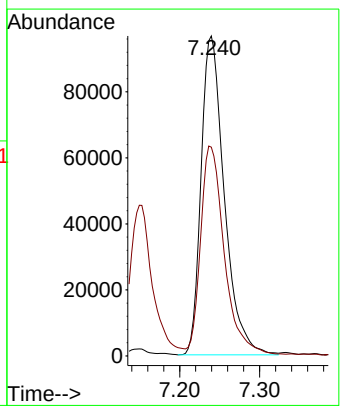


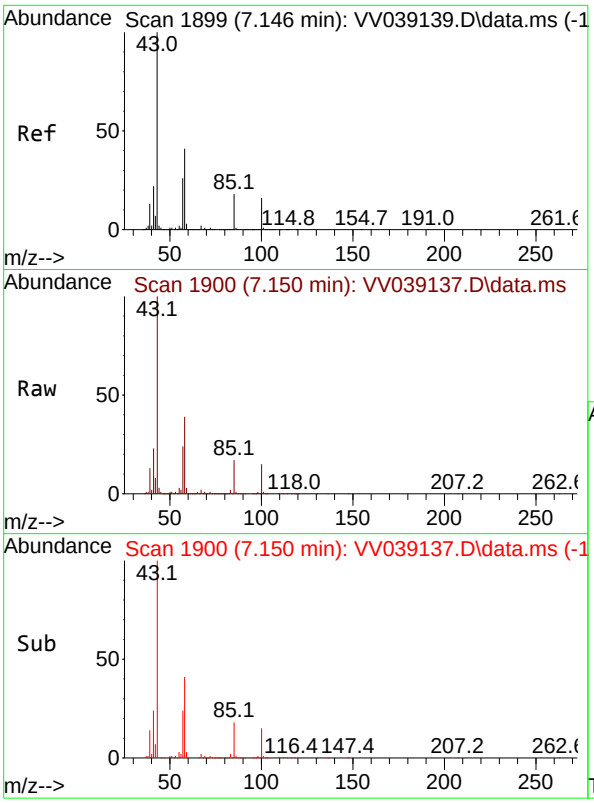




#50
Toluene-d8
Concen: 9.879 ug/l
RT: 7.240 min Scan# 1928
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 98 Resp: 195300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.5 | 52.2 | 78.2 |



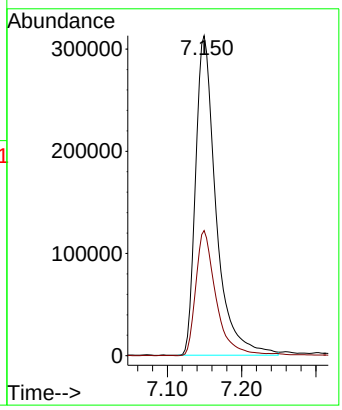


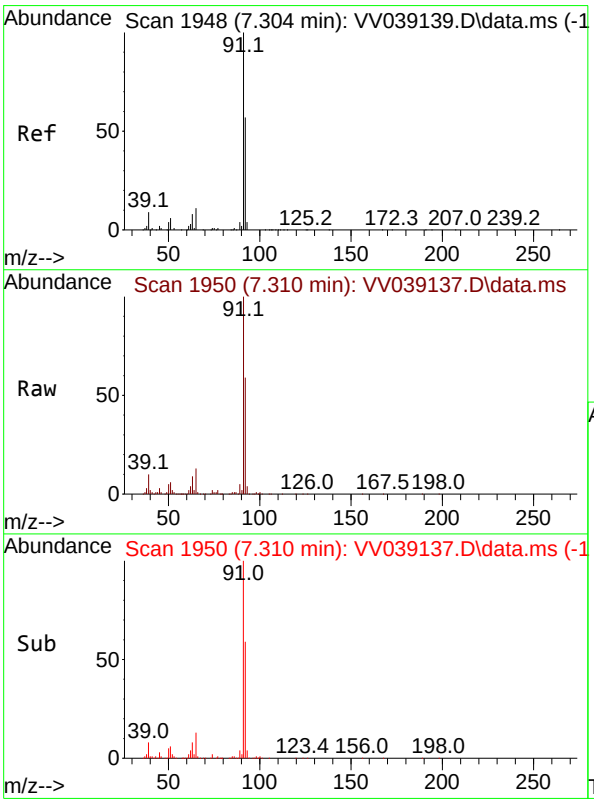

#51
4-Methyl-2-Pentanone
Concen: 54.051 ug/l
RT: 7.150 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion: 43 Resp: 598702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 38.7 | 32.3 | 48.5 |

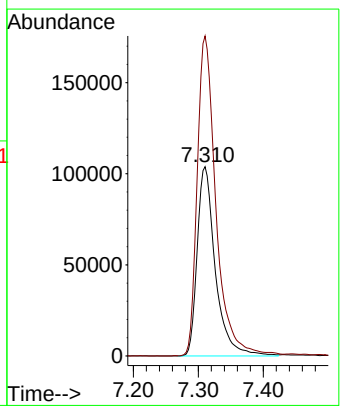


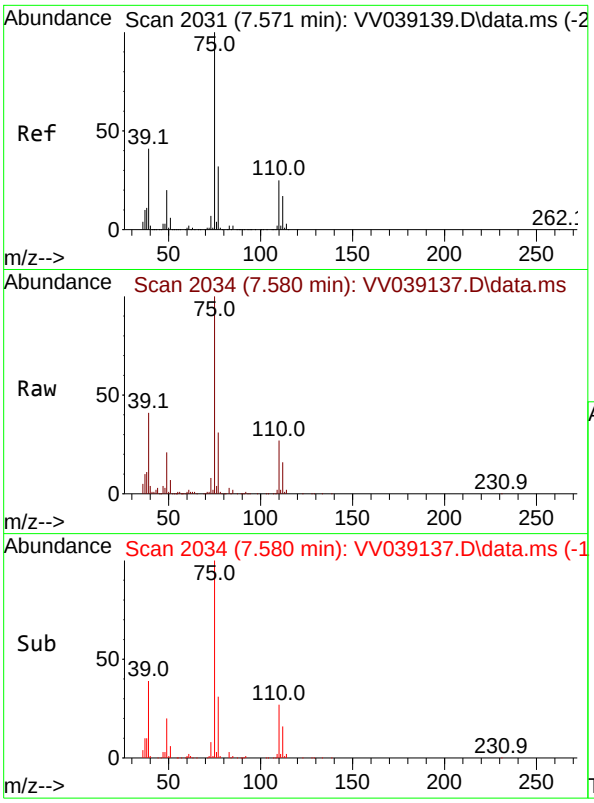




#52
Toluene
Concen: 10.552 ug/l
RT: 7.310 min Scan# 1950
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 92 Resp: 202741

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 174.4 | 139.2 | 208.8 |



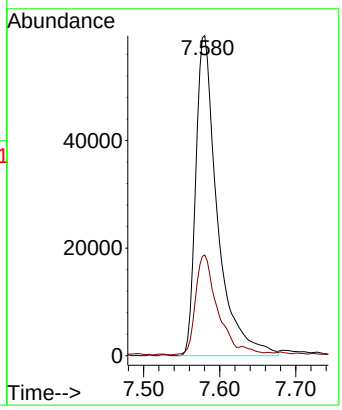


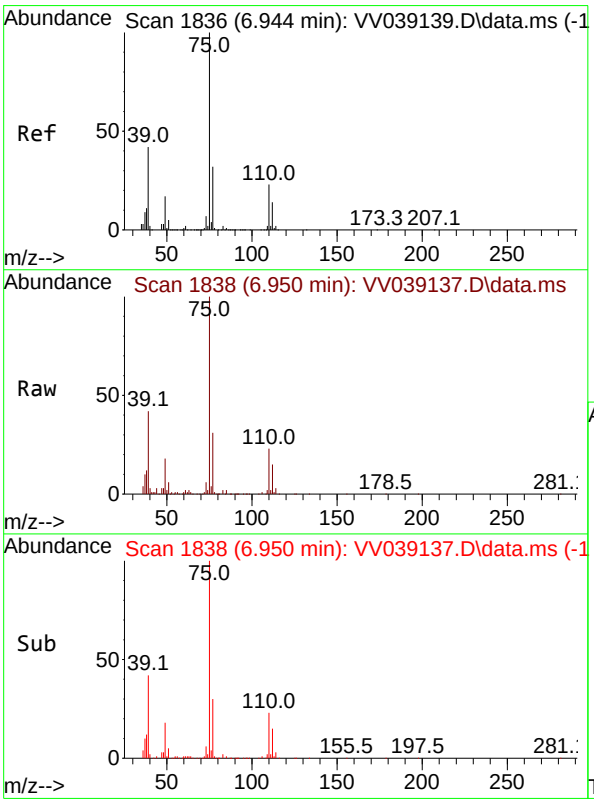

#53
t-1,3-Dichloropropene
Concen: 10.329 ug/l
RT: 7.580 min Scan# 2
Delta R.T. 0.009 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion: 75 Resp: 117314

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.0 | 25.9 | 38.9 |

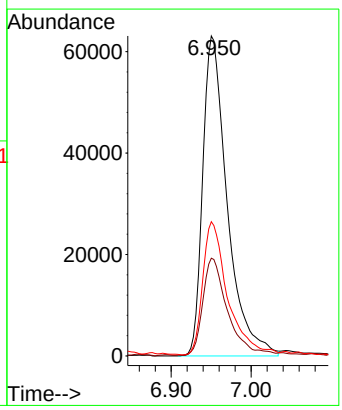


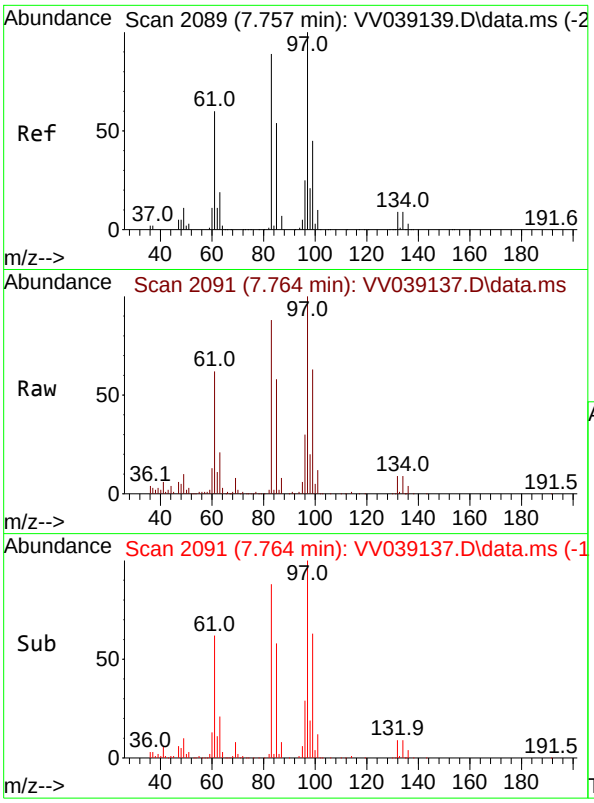




#54
cis-1,3-Dichloropropene
Concen: 10.729 ug/l
RT: 6.950 min Scan# 1838
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 75 Resp: 134529

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.3 | 25.5 | 38.3 |
| 39 | 41.5 | 33.8 | 50.6 |



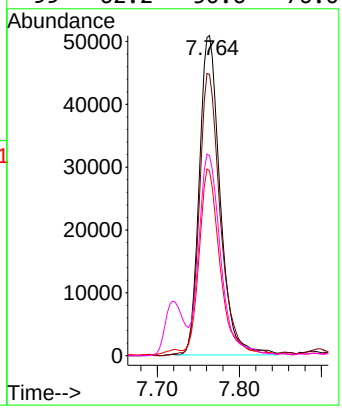


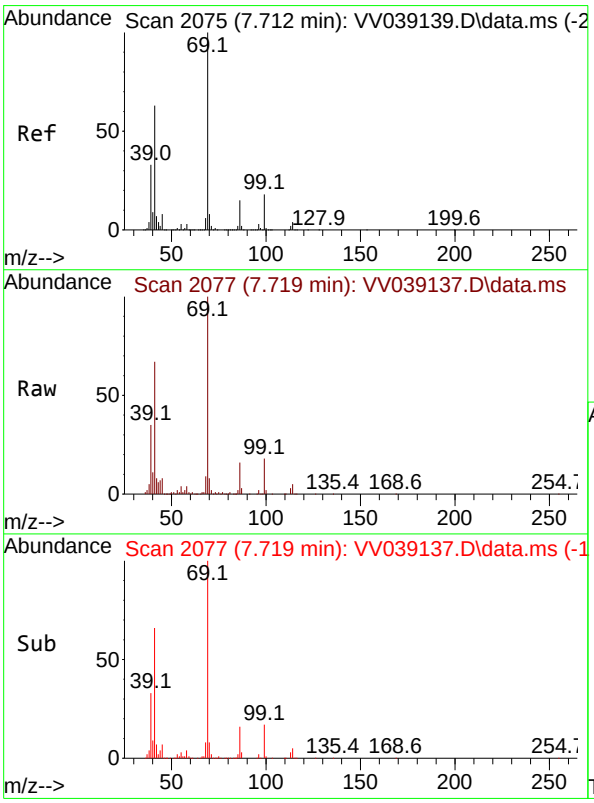

#55
1,1,2-Trichloroethane
Concen: 10.376 ug/l
RT: 7.764 min Scan# 2
Delta R.T. 0.007 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion: 97 Resp: 89390

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 87.4 | 71.1 | 106.7 |
| 85 | 57.3 | 44.6 | 67.0 |
| 99 | 62.2 | 50.6 | 76.0 |

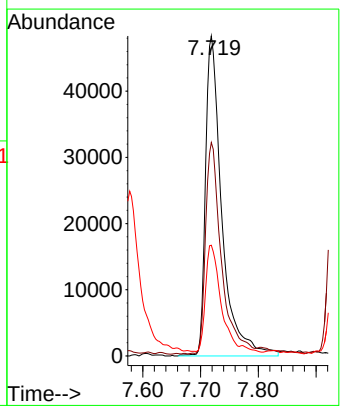


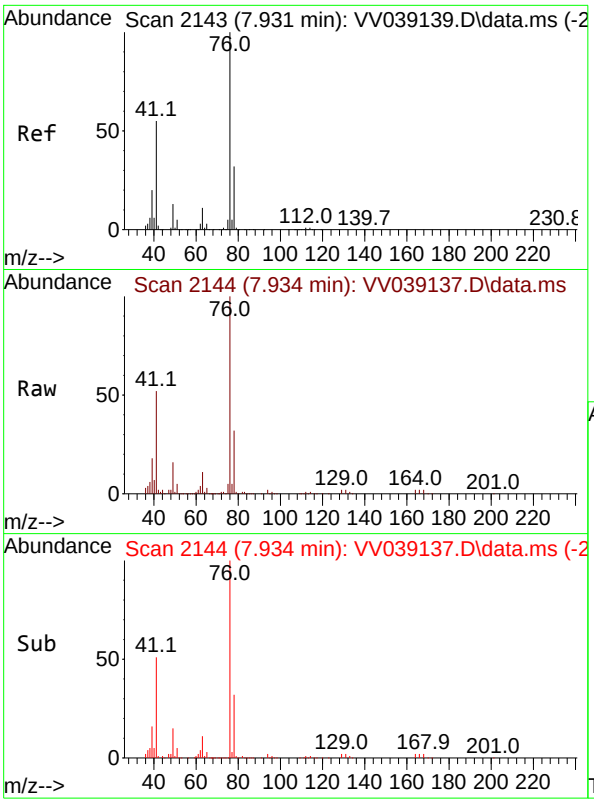




#56
Ethyl methacrylate
Concen: 9.313 ug/l
RT: 7.719 min Scan# 2077
Delta R.T. 0.007 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 69 Resp: 95279

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 63.5 | 50.7 | 76.1 |
| 39 | 30.5 | 26.0 | 39.0 |



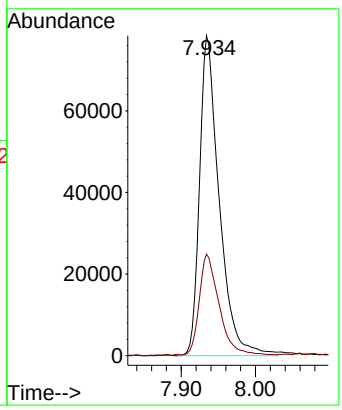


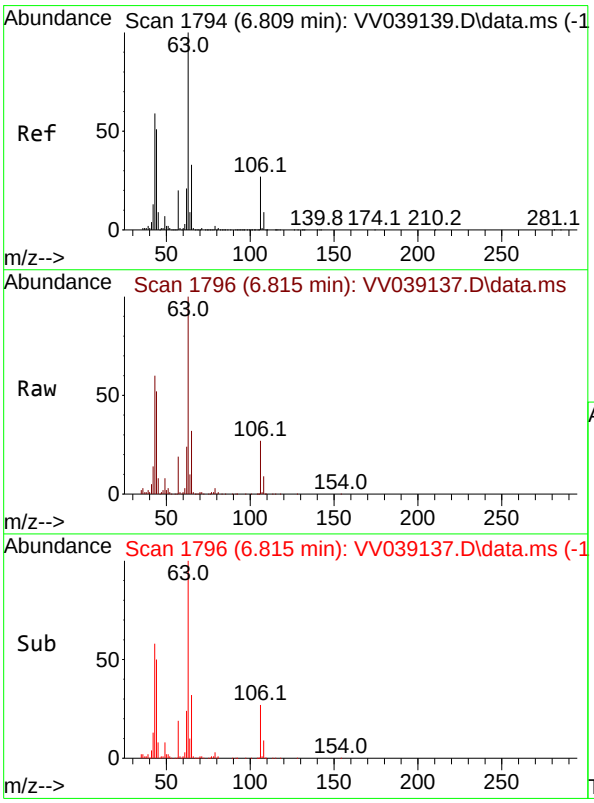

#57
1,3-Dichloropropane
Concen: 10.607 ug/l
RT: 7.934 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion: 76 Resp: 144218

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 31.3 | 26.1 | 39.1 |

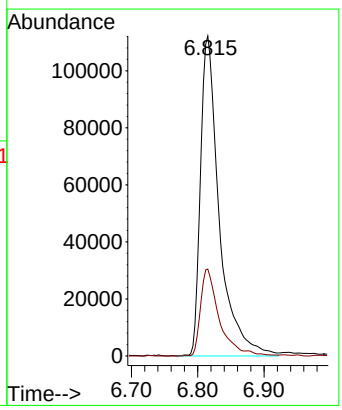


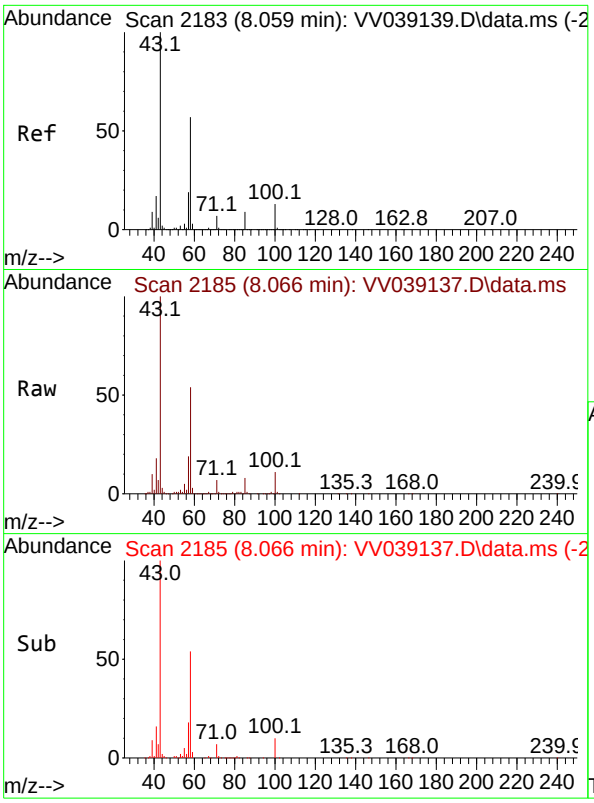




#58
2-Chloroethyl Vinyl ether
Concen: 46.148 ug/l
RT: 6.815 min Scan# 1796
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 63 Resp: 220693

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 27.2 | 22.1 | 33.1 |



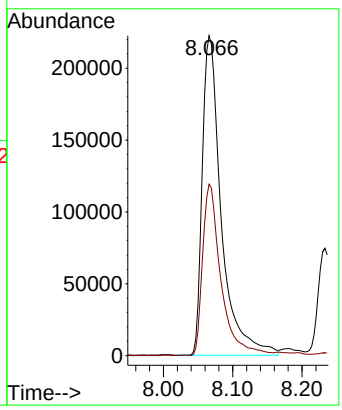


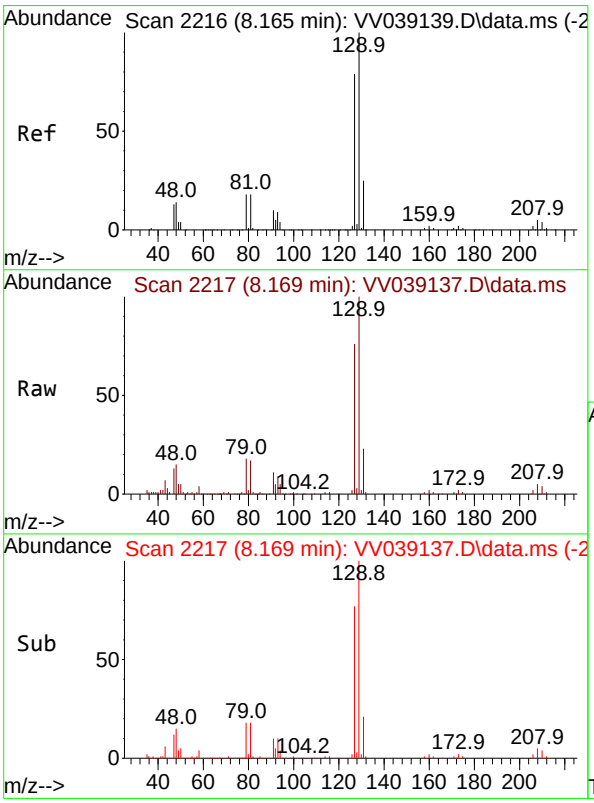

#59
2-Hexanone
Concen: 49.020 ug/l
RT: 8.066 min Scan# 2
Delta R.T. 0.007 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion: 43 Resp: 422703

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 51.7 | 28.3 | 85.0 |

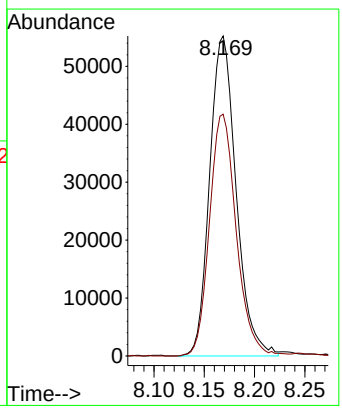


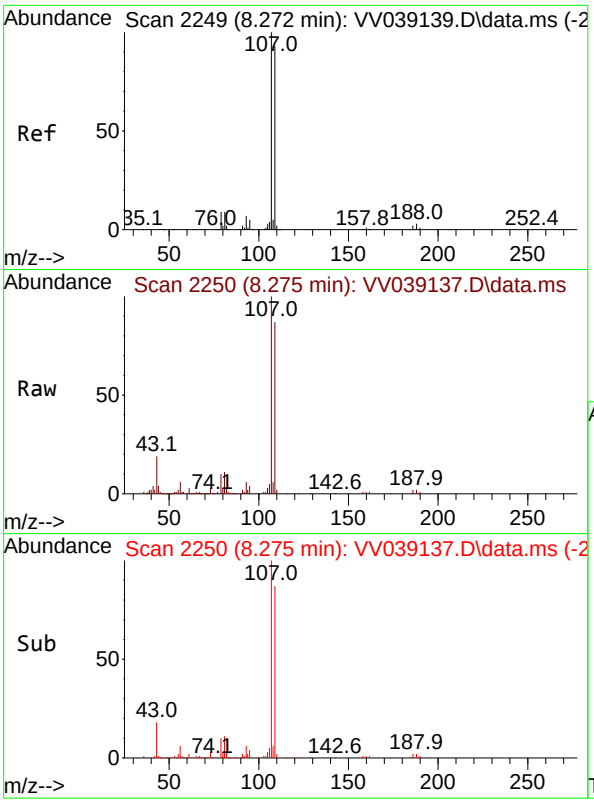




#60
Dibromochloromethane
Concen: 10.313 ug/l
RT: 8.169 min Scan# 2217
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:129 Resp: 101236

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 76.4 | 39.3 | 117.9 |



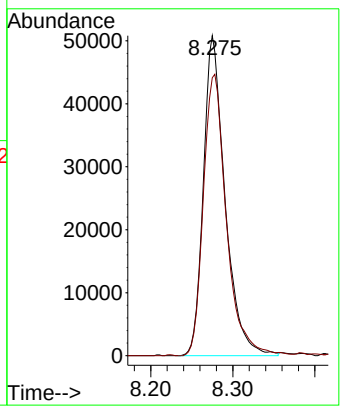


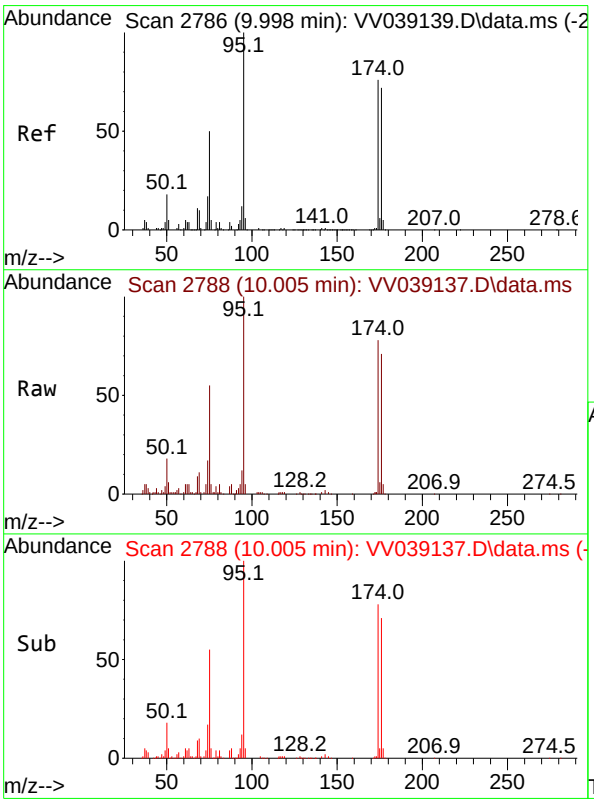

#61
1,2-Dibromoethane
Concen: 10.576 ug/l
RT: 8.275 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion:107 Resp: 93182

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.6 | 74.6 | 112.0 |

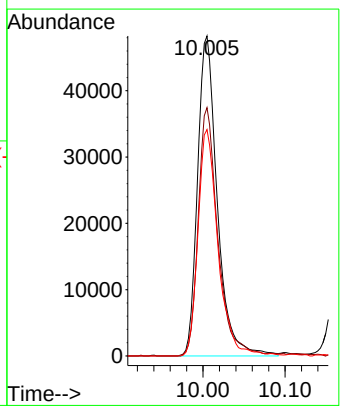


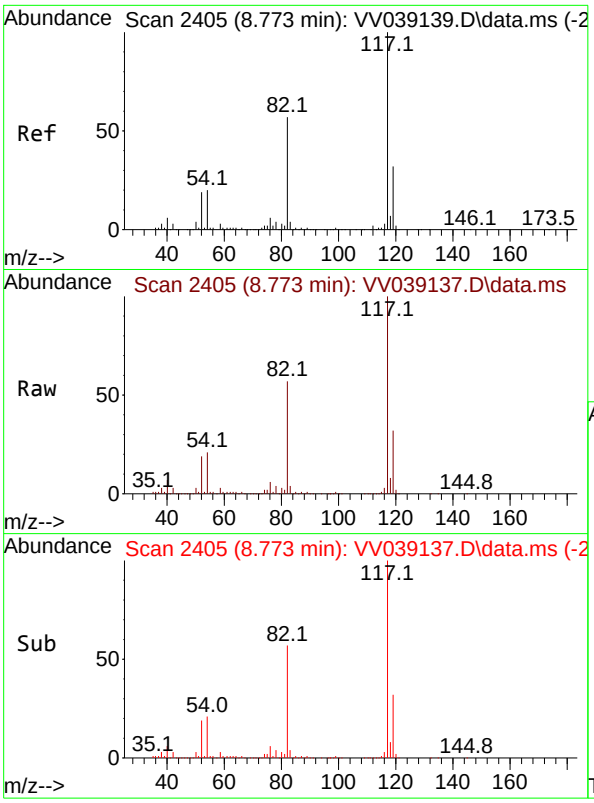




#62
4-Bromofluorobenzene
Concen: 9.902 ug/l
RT: 10.005 min Scan# 2788
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 95 Resp: 80587

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 77.1 | 0.0 | 150.4 |
| 176 | 71.7 | 0.0 | 144.2 |



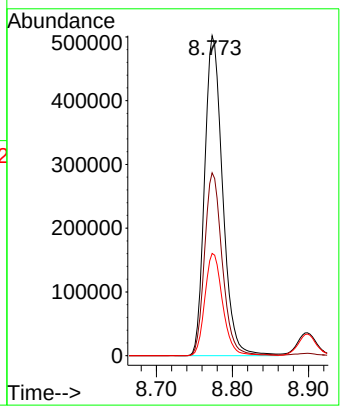


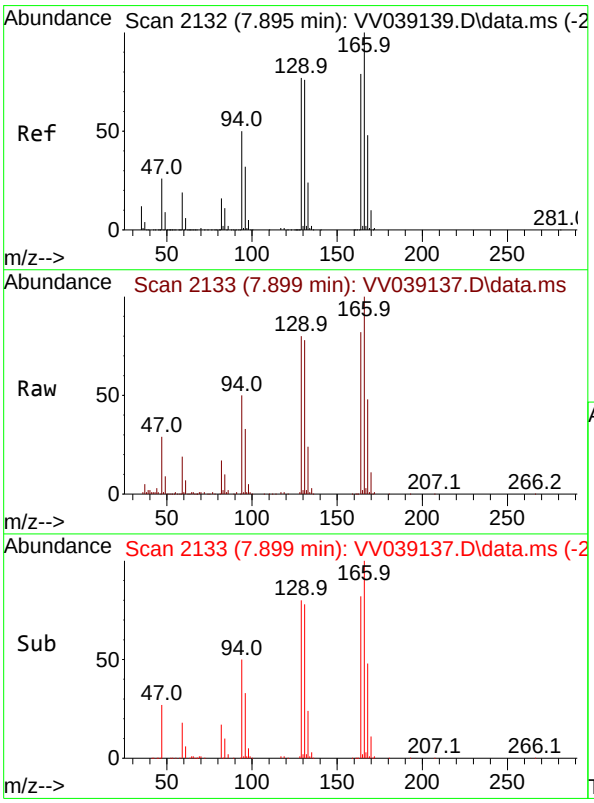

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.773 min Scan# 24
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion:117 Resp: 824583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.1 | 45.4 | 68.2 |
| 119 | 31.9 | 25.6 | 38.4 |

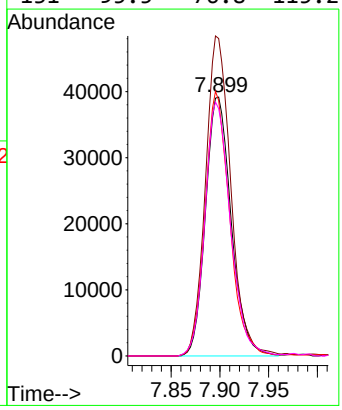


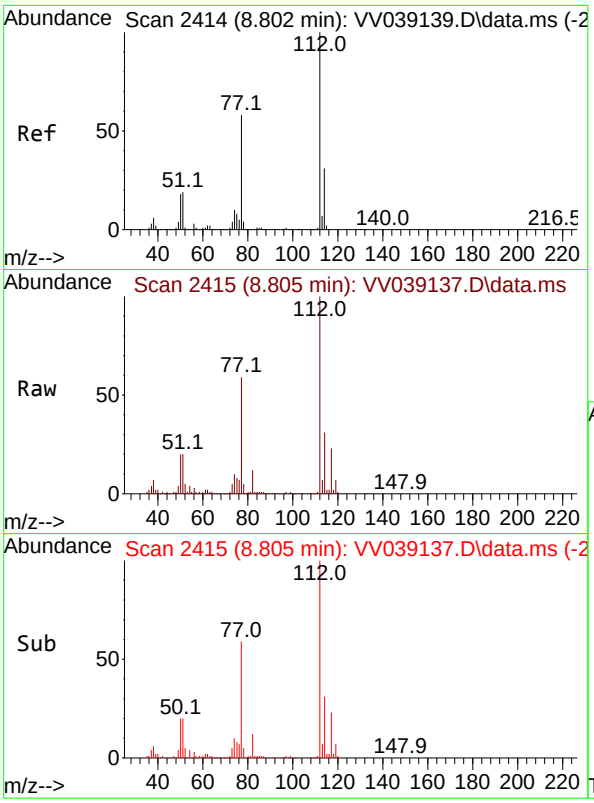




#64
Tetrachloroethene
Concen: 10.397 ug/l
RT: 7.899 min Scan# 2133
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:164 Resp: 71811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 122.7 | 101.6 | 152.4 |
| 129 | 98.7 | 78.5 | 117.7 |
| 131 | 95.5 | 76.8 | 115.2 |



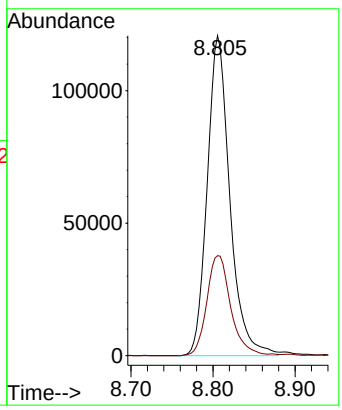


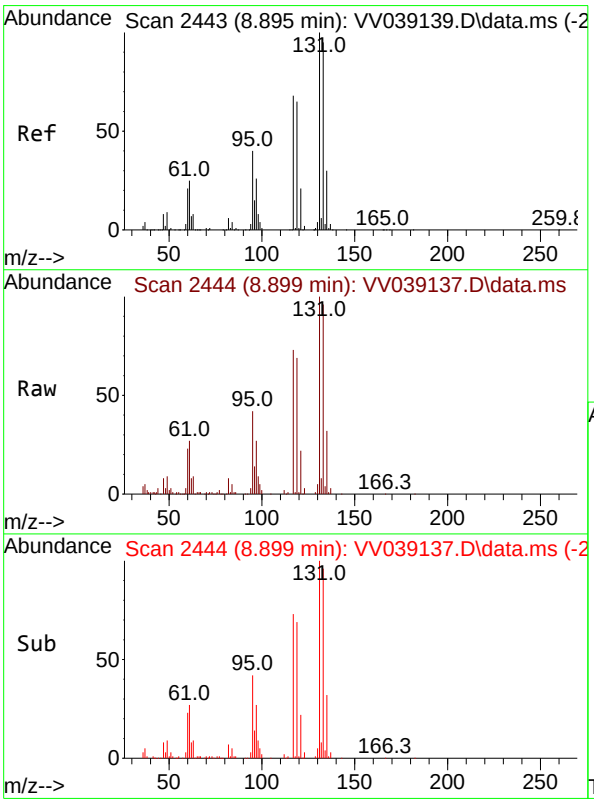

#65
Chlorobenzene
Concen: 10.072 ug/l
RT: 8.805 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion:112 Resp: 231329

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.3 | 24.6 | 37.0 |

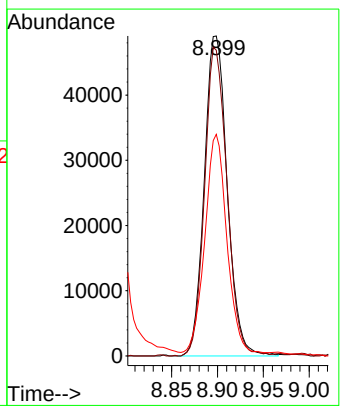


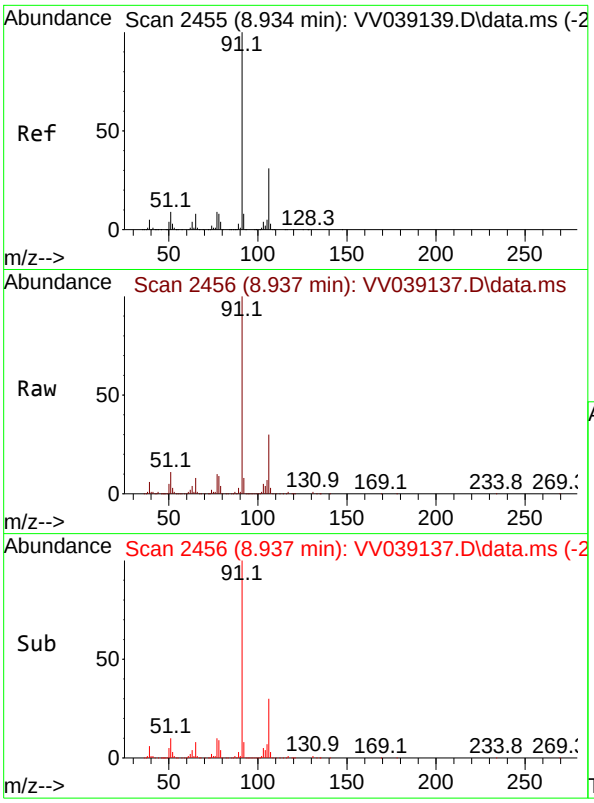




#66
1,1,1,2-Tetrachloroethane
Concen: 10.324 ug/l
RT: 8.899 min Scan# 2444
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:131 Resp: 85678

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.3 | 47.3 | 141.8 |
| 119 | 65.4 | 33.3 | 99.8 |



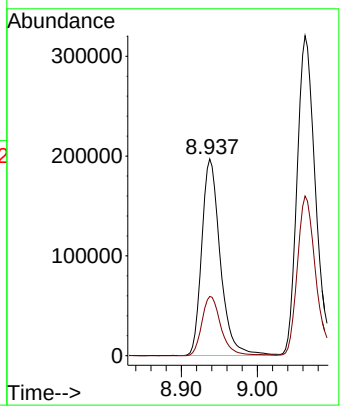


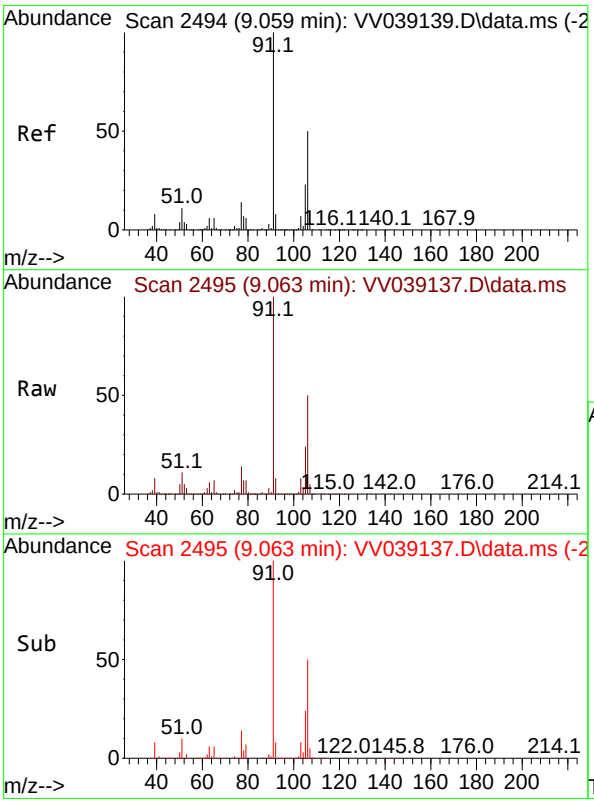

#67
Ethyl Benzene
Concen: 9.618 ug/l
RT: 8.937 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion: 91 Resp: 334394

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.1 | 24.6 | 37.0 |

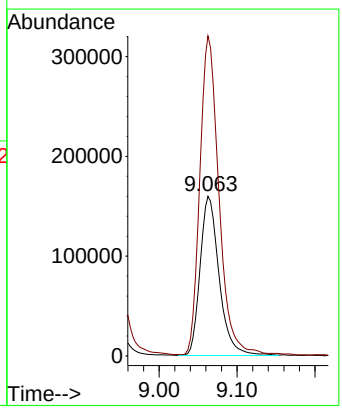


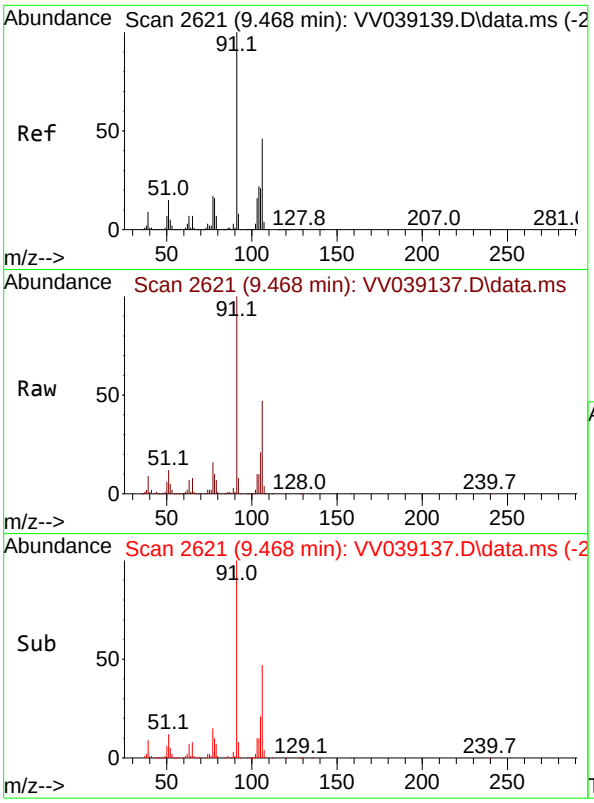




#68
m/p-Xylenes
Concen: 20.155 ug/l
RT: 9.063 min Scan# 2495
Delta R.T. 0.004 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:106 Resp: 270452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 202.1 | 162.5 | 243.7 |



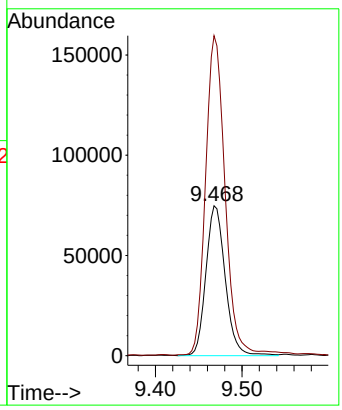


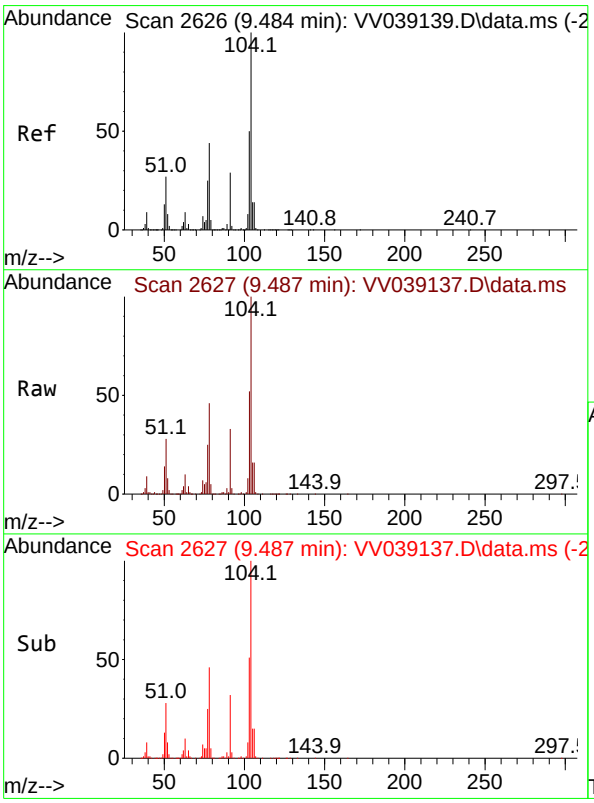

#69
o-Xylene
Concen: 9.756 ug/l
RT: 9.468 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion:106 Resp: 115922

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 212.5 | 109.1 | 327.3 |

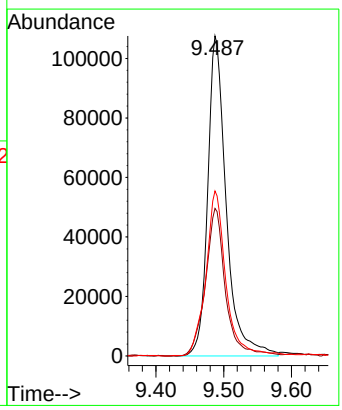


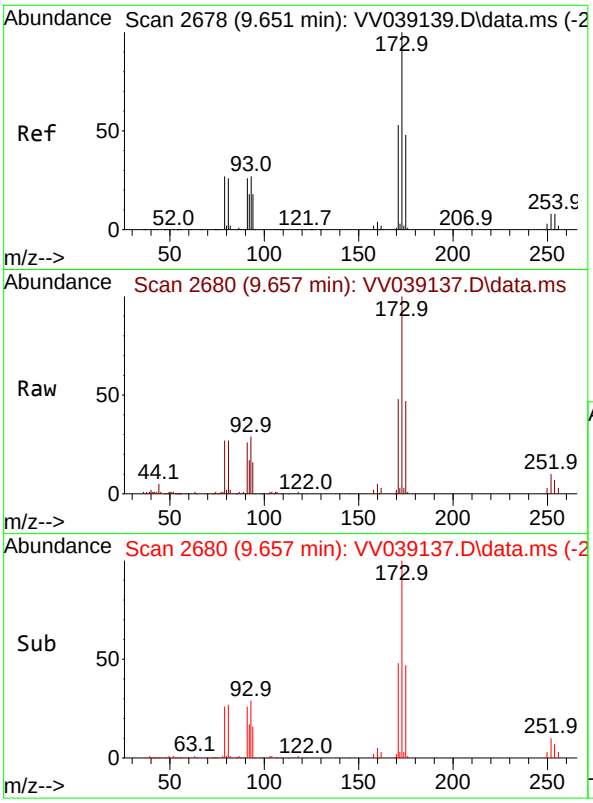




#70
Styrene
Concen: 9.382 ug/l
RT: 9.487 min Scan# 2627
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:104 Resp: 204368

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 49.9 | 39.8 | 59.6 |
| 103 | 54.8 | 43.4 | 65.2 |



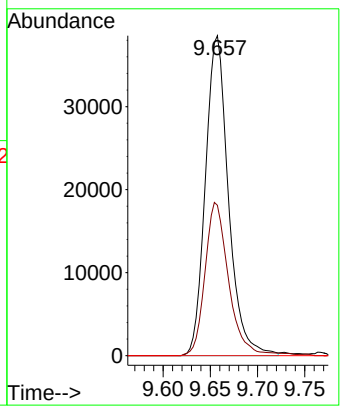


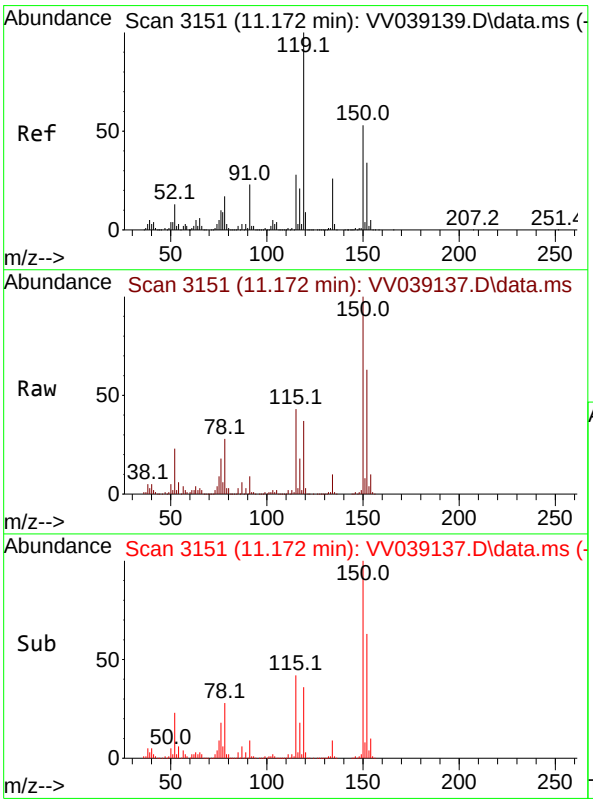

#71
Bromoform
Concen: 10.074 ug/l
RT: 9.657 min Scan# 2
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion:173 Resp: 65302

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.4 | 23.9 | 71.7 |
| 254 | 0.0 | 0.1 | 0.1# |

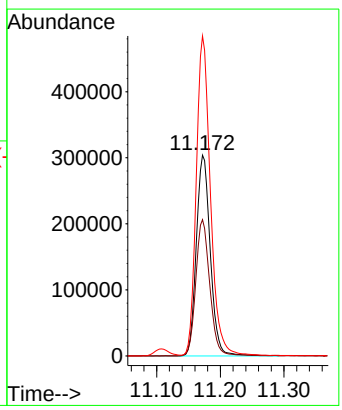


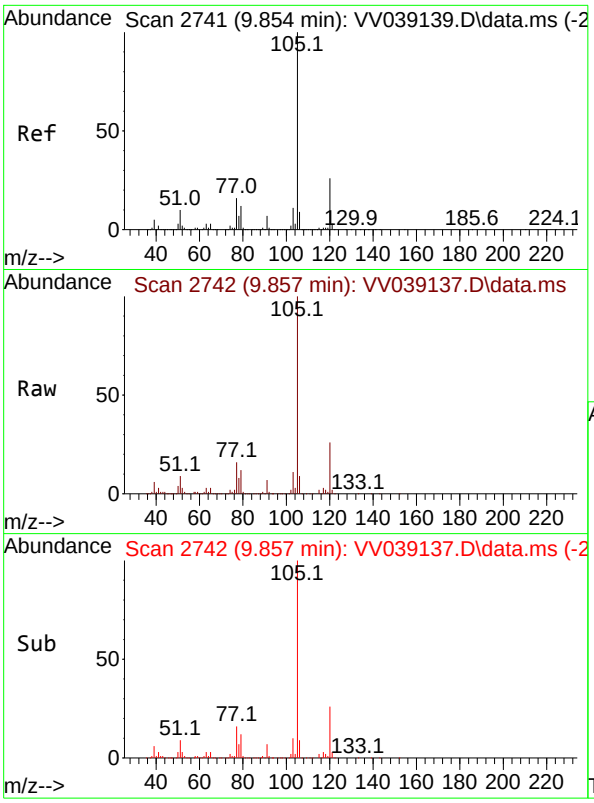




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:152 Resp: 463438

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 67.6 | 44.8 | 134.4 |
| 150 | 161.2 | 0.0 | 353.8 |



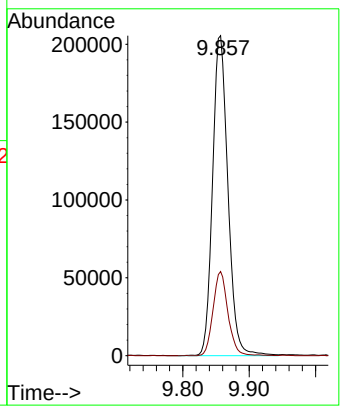


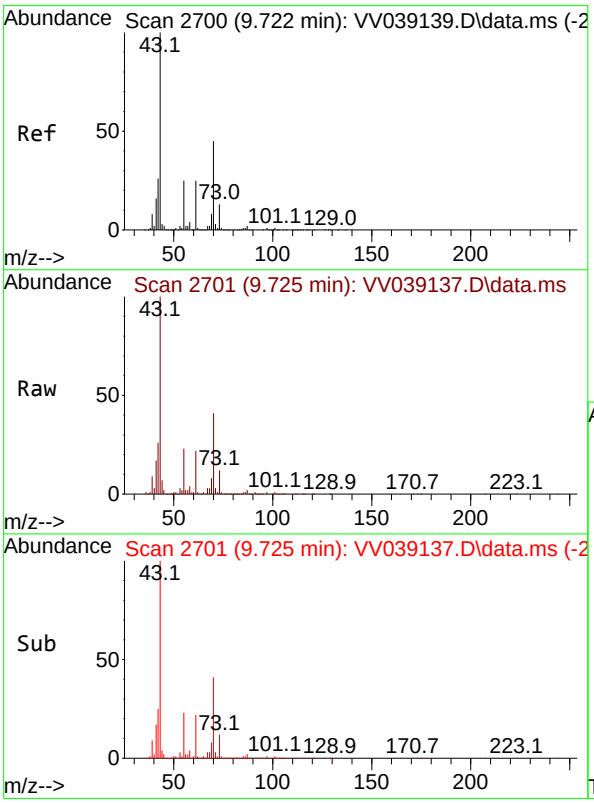

#73
Isopropylbenzene
Concen: 9.827 ug/l
RT: 9.857 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion:105 Resp: 330305

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.5 | 13.1 | 39.1 |

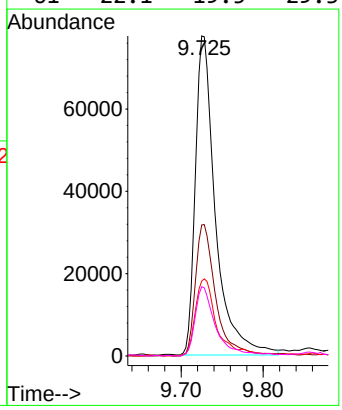


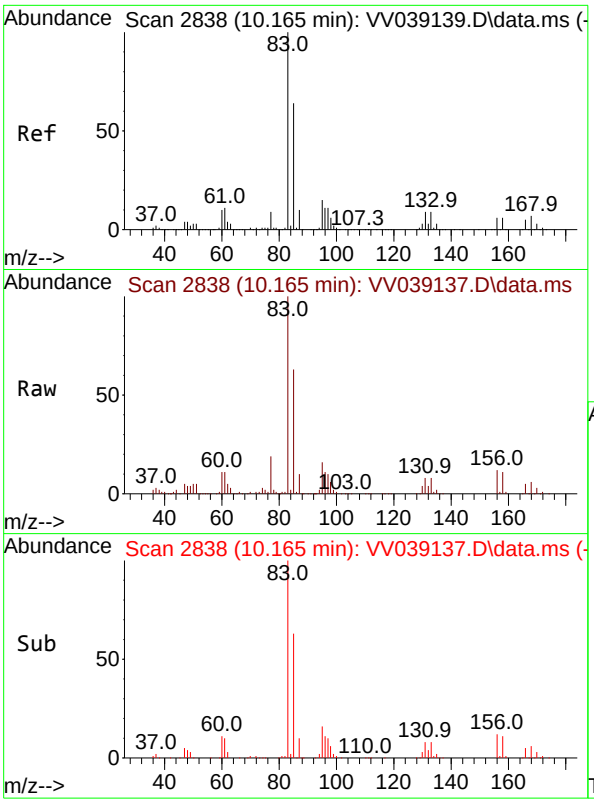




#74
N-amyl acetate
Concen: 9.853 ug/l
RT: 9.725 min Scan# 2701
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 43 Resp: 132108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 41.7 | 35.4 | 53.0 |
| 55 | 24.3 | 20.6 | 30.8 |
| 61 | 22.1 | 19.5 | 29.3 |



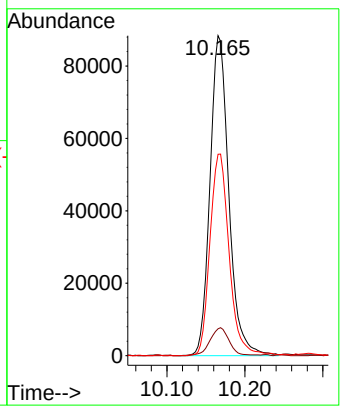


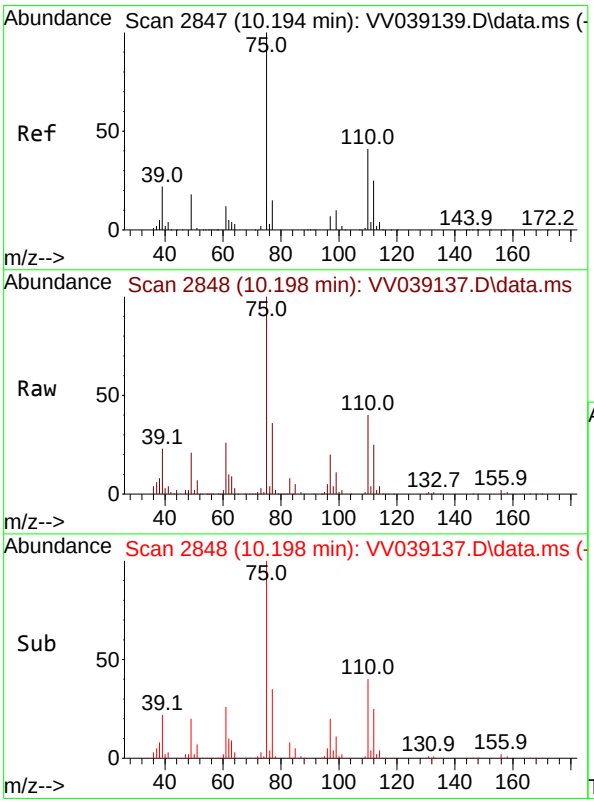

#75
1,1,2,2-Tetrachloroethane
Concen: 10.067 ug/l
RT: 10.165 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion: 83 Resp: 148267

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 8.9 | 4.5 | 13.7 |
| 85 | 64.4 | 31.9 | 95.9 |

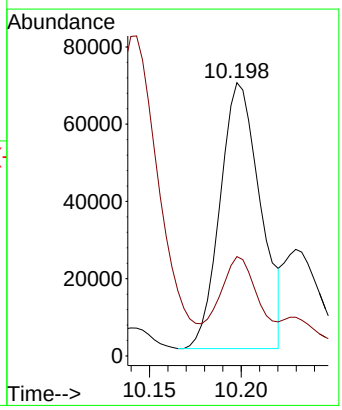


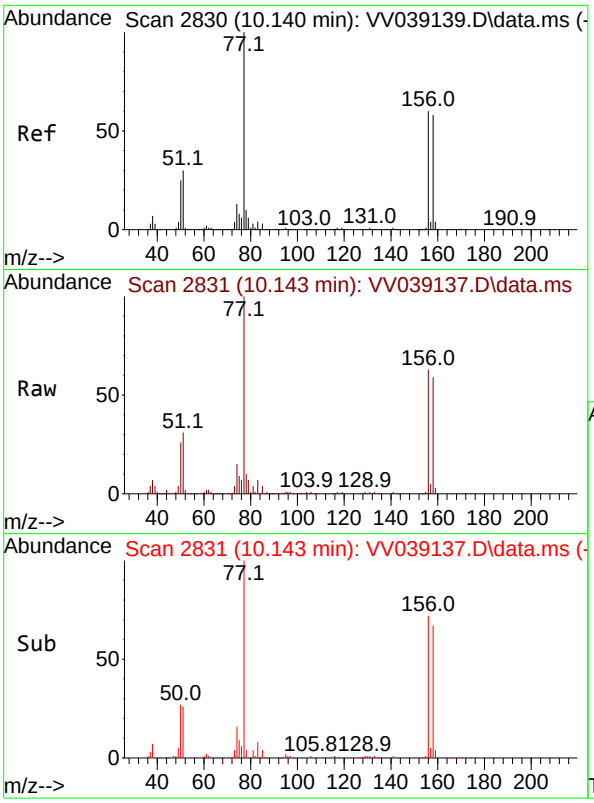




#76
1,2,3-Trichloropropane
Concen: 9.977 ug/l
RT: 10.198 min Scan# 2848
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 75 Resp: 105275

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 21.9 | 11.3 | 33.8 |



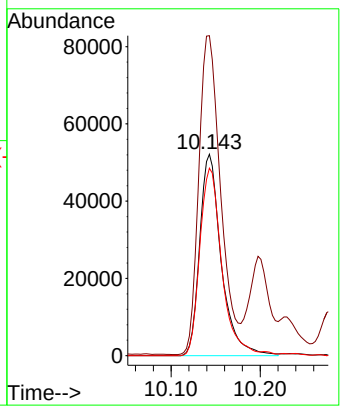


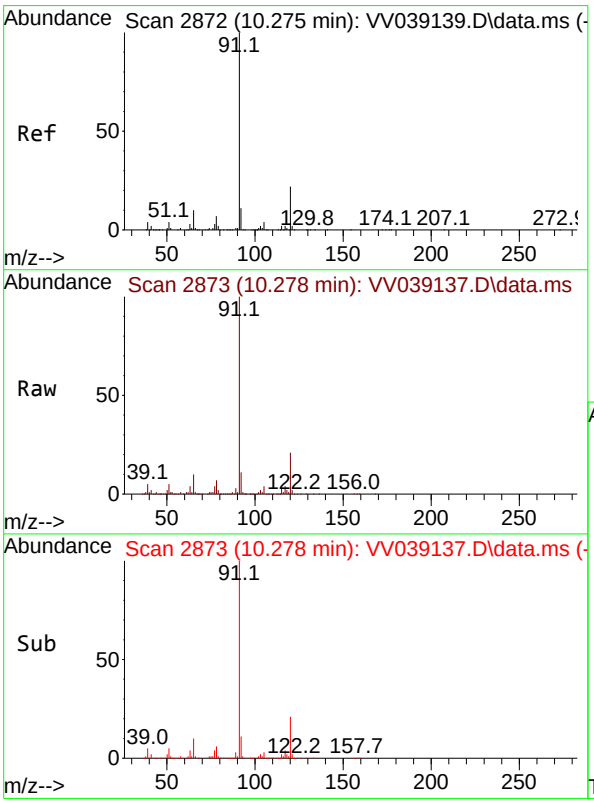

#77
Bromobenzene
Concen: 10.071 ug/l
RT: 10.143 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion:156 Resp: 87828

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 160.3 | 83.4 | 250.1 |
| 158 | 94.3 | 48.8 | 146.4 |

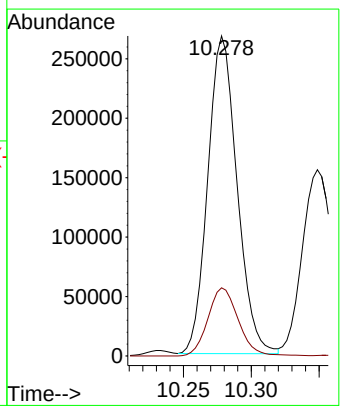


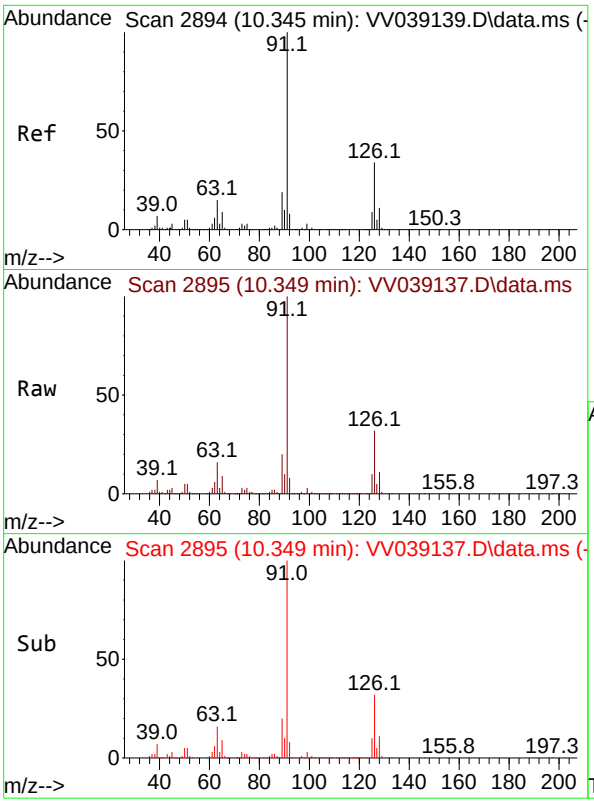




#78
n-propylbenzene
Concen: 9.804 ug/l
RT: 10.278 min Scan# 2873
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 91 Resp: 401316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.3 | 11.1 | 33.3 |



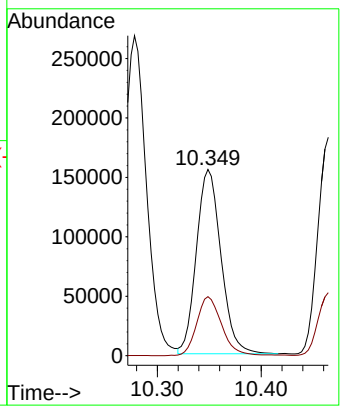


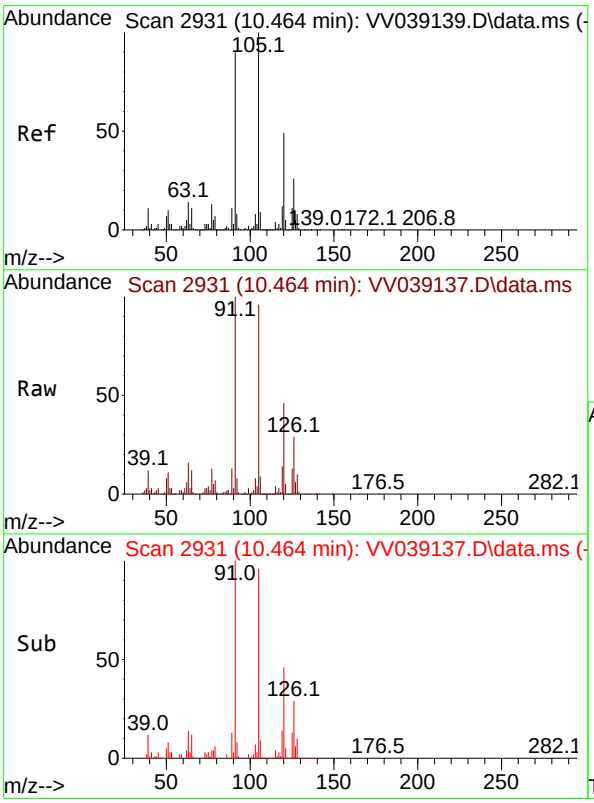

#79
2-Chlorotoluene
Concen: 10.413 ug/l
RT: 10.349 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion: 91 Resp: 255053

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.7 | 16.7 | 50.0 |

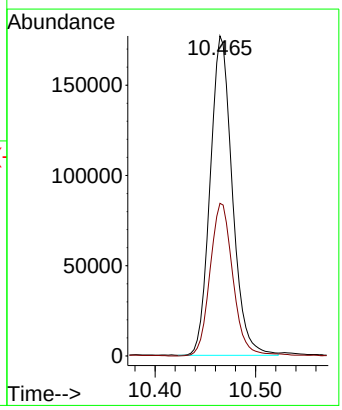


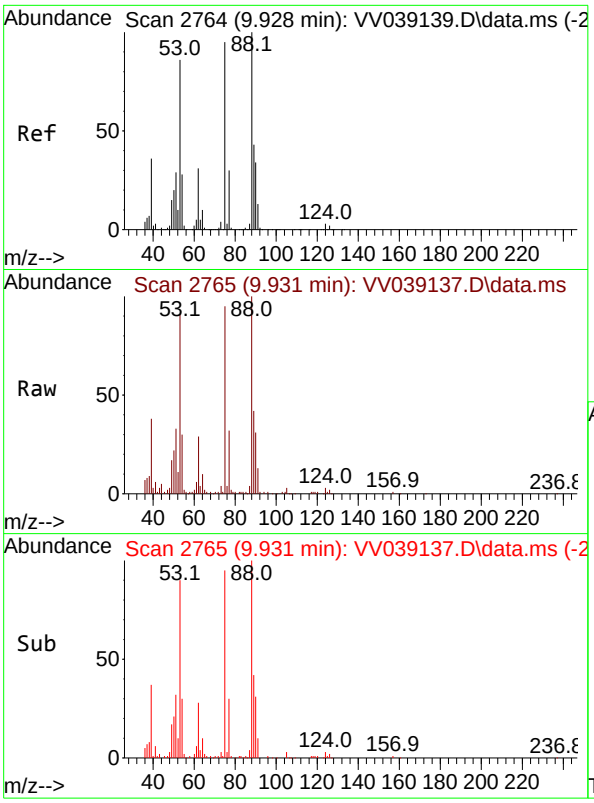




#80
1,3,5-Trimethylbenzene
Concen: 9.699 ug/l
RT: 10.464 min Scan# 2931
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:105 Resp: 270977

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.6 | 24.3 | 72.8 |



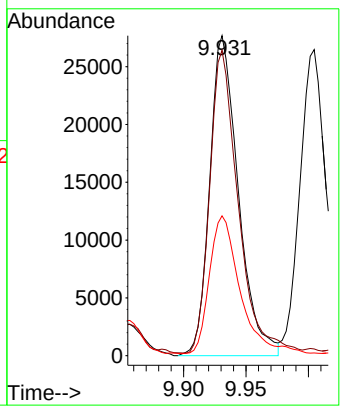


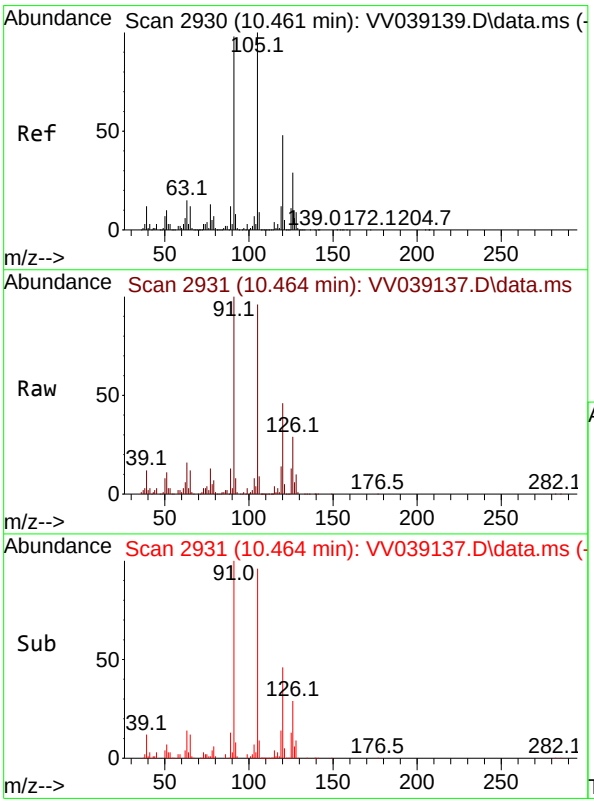

#81
trans-1,4-Dichloro-2-butene
Concen: 10.082 ug/l
RT: 9.931 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion: 75 Resp: 44314

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 94.1 | 72.5 | 108.7 |
| 89 | 45.9 | 37.2 | 55.8 |

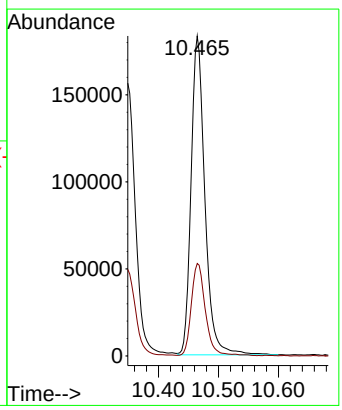


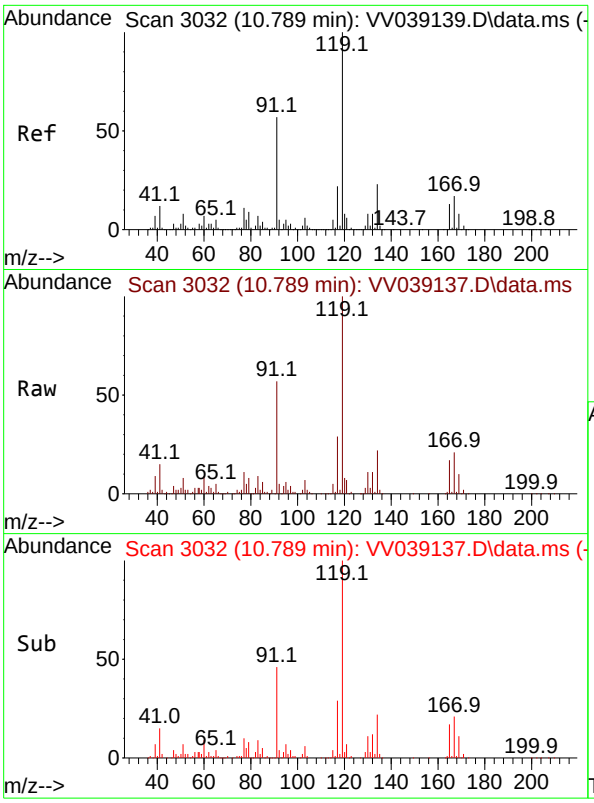




#82
4-Chlorotoluene
Concen: 10.312 ug/l
RT: 10.464 min Scan# 2931
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 91 Resp: 292863

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 29.0 | 14.5 | 43.6 |



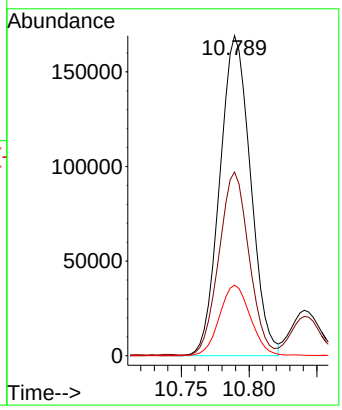


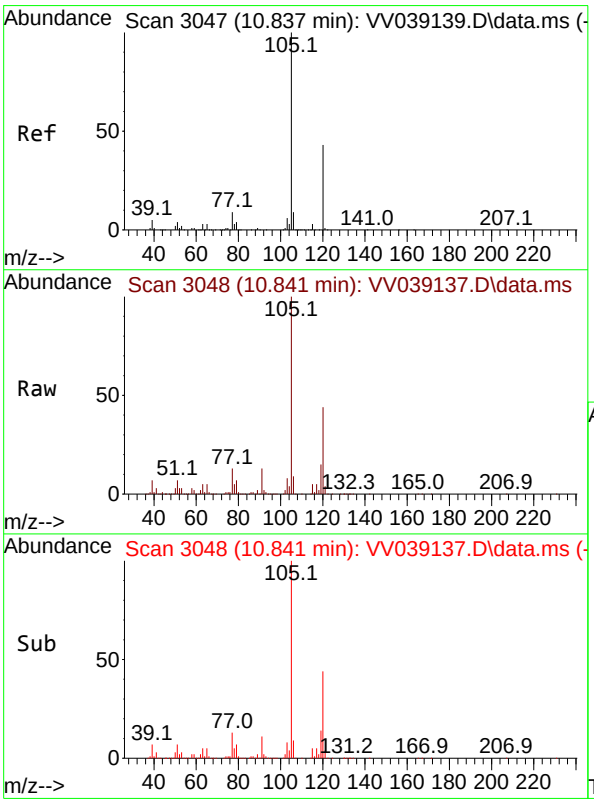

#83
tert-Butylbenzene
Concen: 9.603 ug/l
RT: 10.789 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion:119 Resp: 267528

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 55.4 | 28.5 | 85.6 |
| 134 | 22.1 | 11.5 | 34.4 |

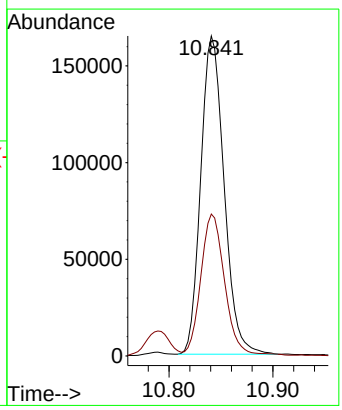


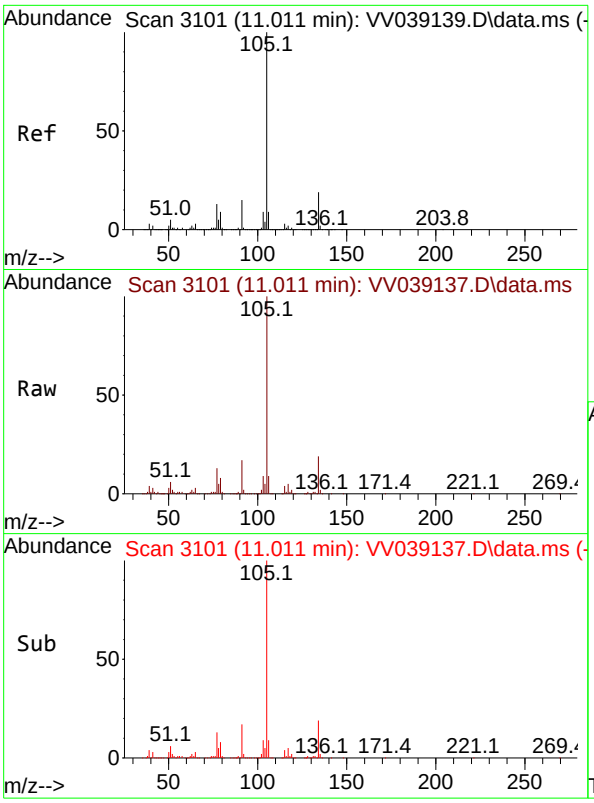




#84
1,2,4-Trimethylbenzene
Concen: 9.457 ug/l
RT: 10.841 min Scan# 3048
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:105 Resp: 256505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.4 | 22.4 | 67.2 |



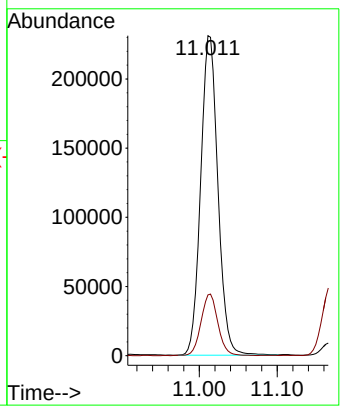


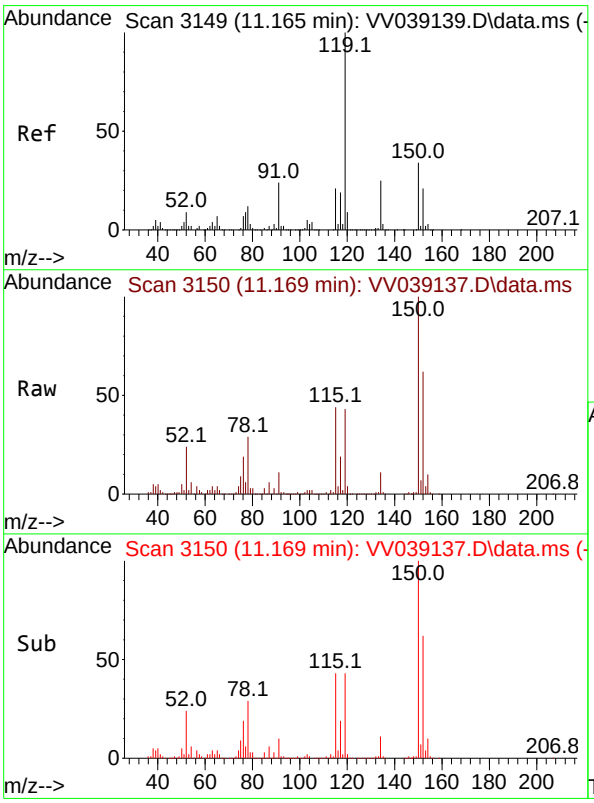

#85
sec-Butylbenzene
Concen: 9.588 ug/l
RT: 11.011 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion:105 Resp: 354312

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.0 | 9.6 | 28.8 |

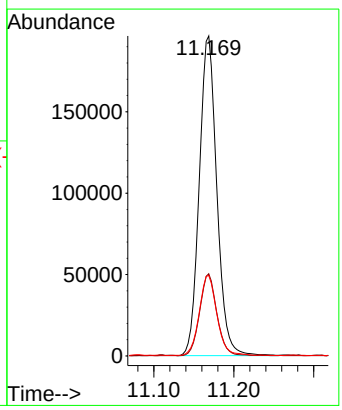


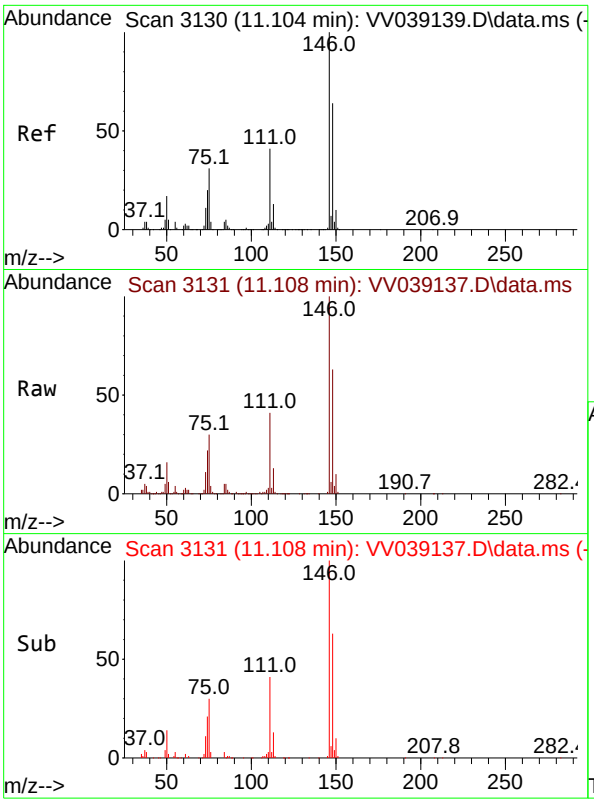




#86
p-Isopropyltoluene
Concen: 9.755 ug/l
RT: 11.169 min Scan# 3150
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:119 Resp: 300032

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.2 | 12.7 | 38.0 |
| 91 | 25.2 | 12.0 | 36.1 |



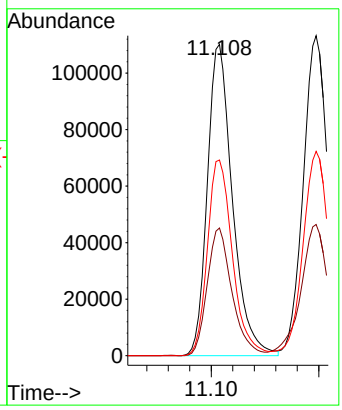


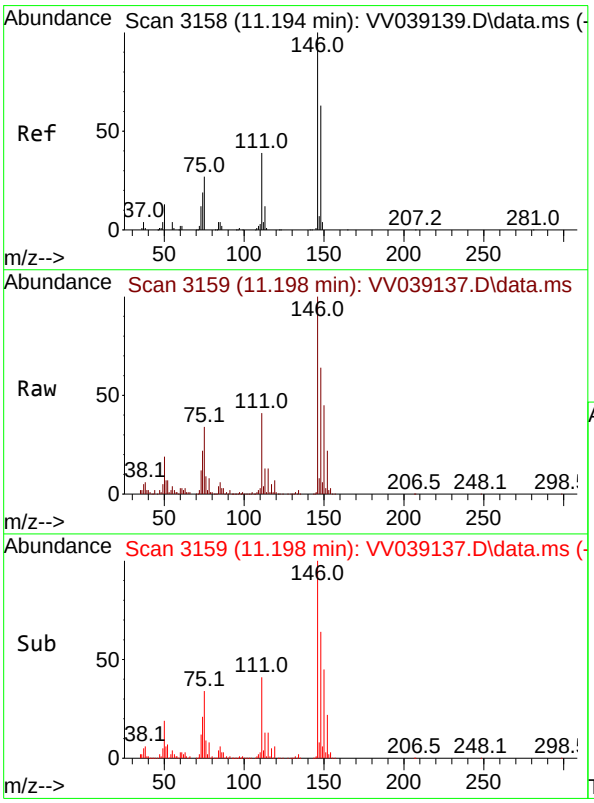

#87
1,3-Dichlorobenzene
Concen: 10.141 ug/l
RT: 11.108 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion:146 Resp: 178990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.3 | 20.9 | 62.8 |
| 148 | 62.8 | 31.8 | 95.3 |

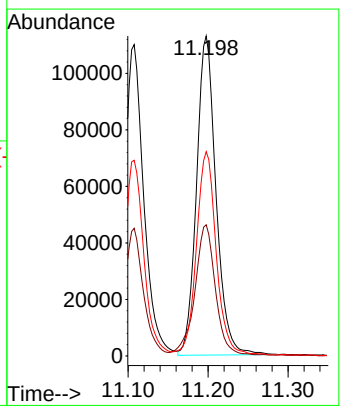


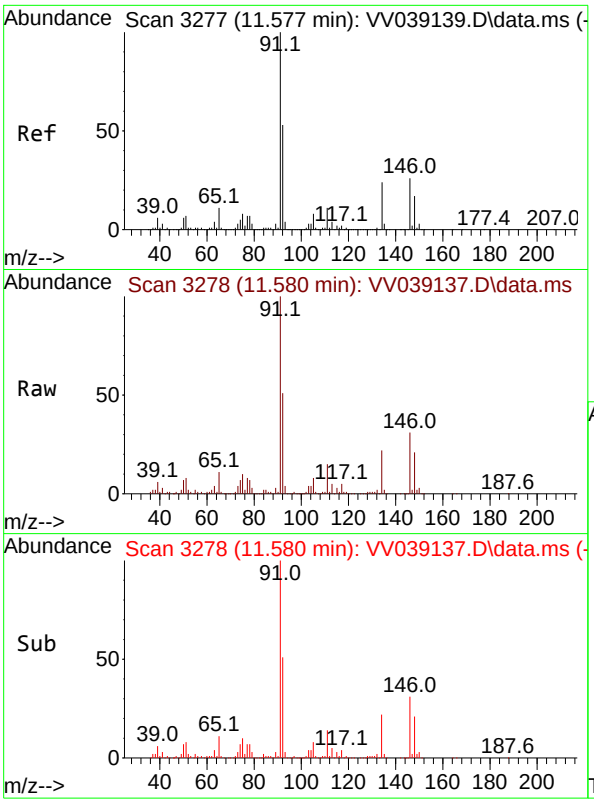




#88
1,4-Dichlorobenzene
Concen: 9.835 ug/l
RT: 11.198 min Scan# 3159
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:146 Resp: 191843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.0 | 20.3 | 60.8 |
| 148 | 65.1 | 31.4 | 94.2 |



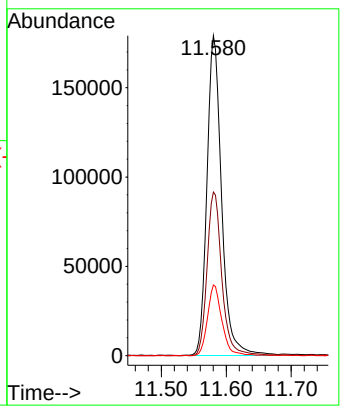


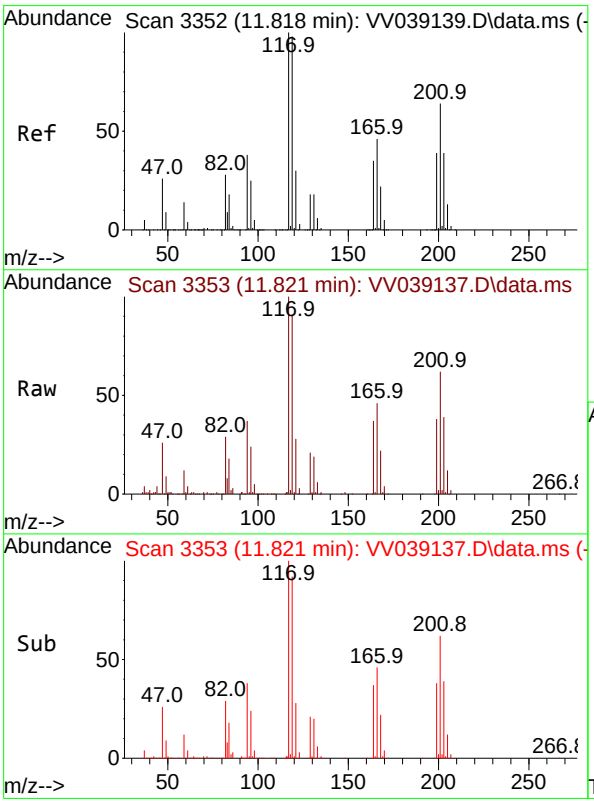

#89
n-Butylbenzene
Concen: 9.575 ug/l
RT: 11.580 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion: 91 Resp: 281258

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 51.5 | 26.6 | 79.8 |
| 134 | 21.7 | 12.1 | 36.3 |

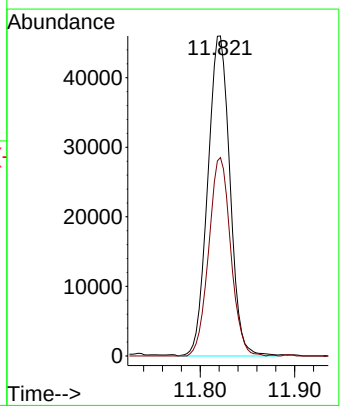


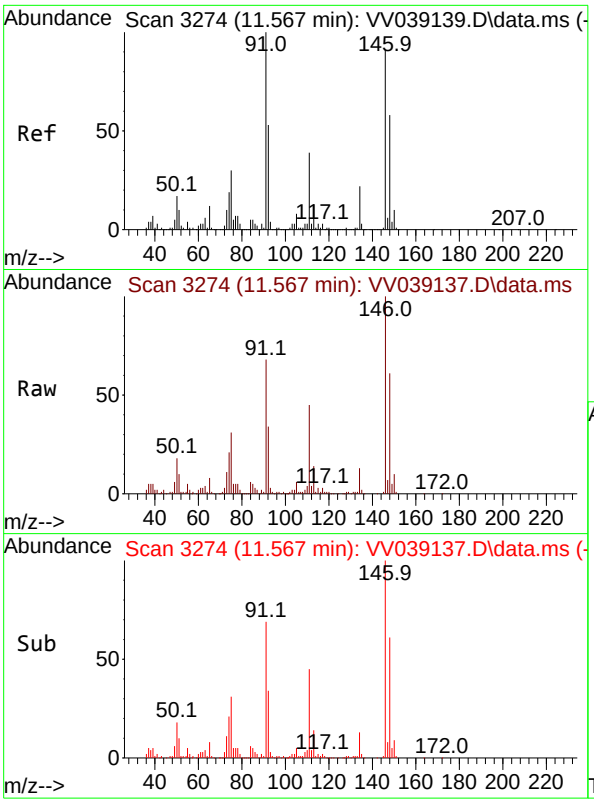




#90
Hexachloroethane
Concen: 9.891 ug/l
RT: 11.821 min Scan# 3353
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:117 Resp: 74910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 61.4 | 32.3 | 96.8 |



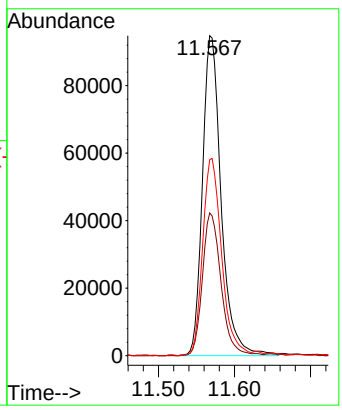


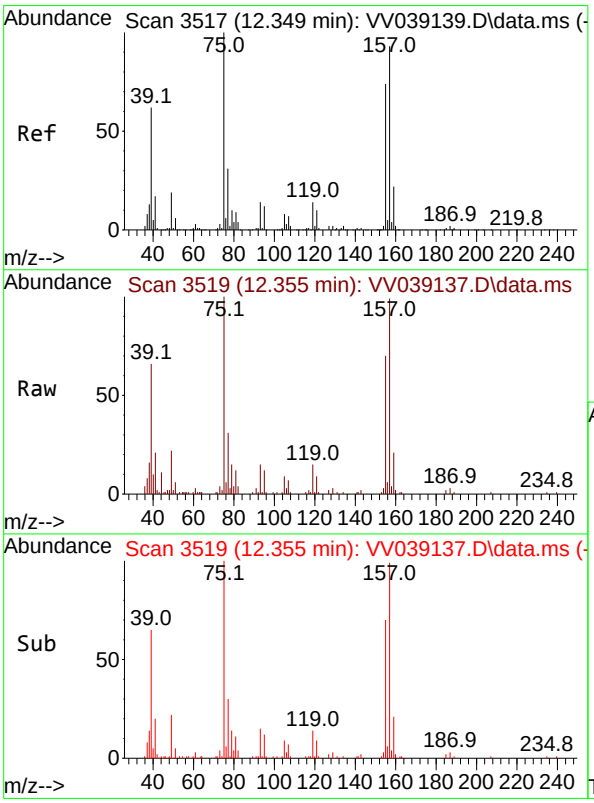

#91
1,2-Dichlorobenzene
Concen: 9.841 ug/l
RT: 11.567 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion:146 Resp: 162271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.3 | 21.5 | 64.5 |
| 148 | 62.3 | 31.9 | 95.7 |

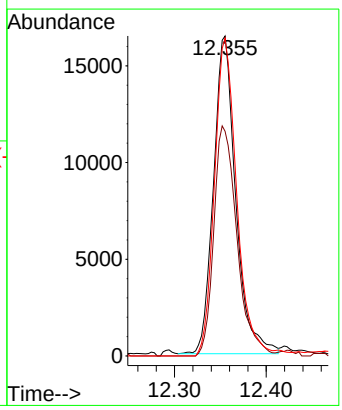


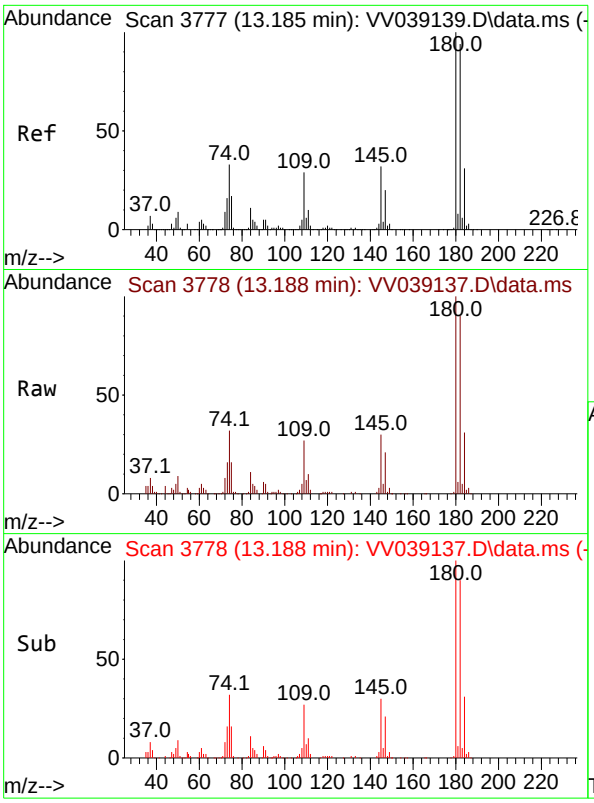




#92
1,2-Dibromo-3-Chloropropane
Concen: 10.167 ug/l
RT: 12.355 min Scan# 3519
Delta R.T. 0.006 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion: 75 Resp: 27674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 75.5 | 38.6 | 115.8 |
| 157 | 100.7 | 49.5 | 148.3 |



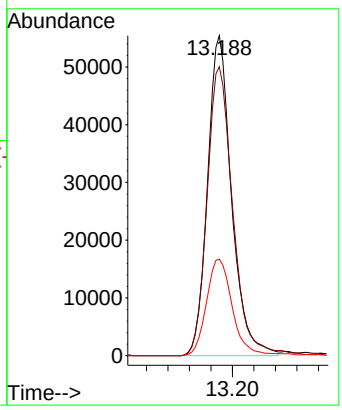


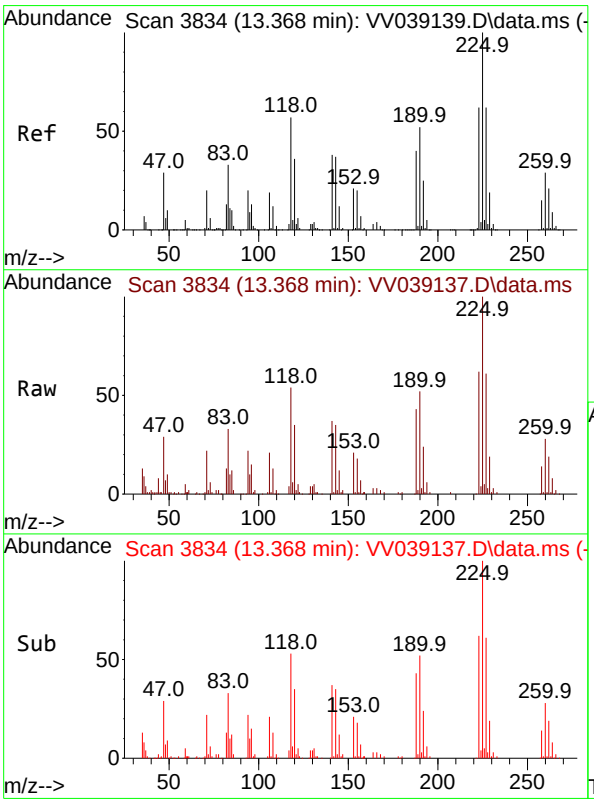

#93
1,2,4-Trichlorobenzene
Concen: 9.096 ug/l
RT: 13.188 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion:180 Resp: 85982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.8 | 47.1 | 141.4 |
| 145 | 32.7 | 16.3 | 48.8 |

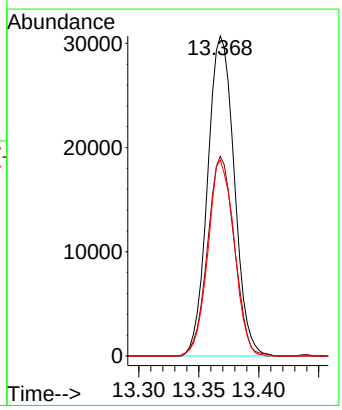


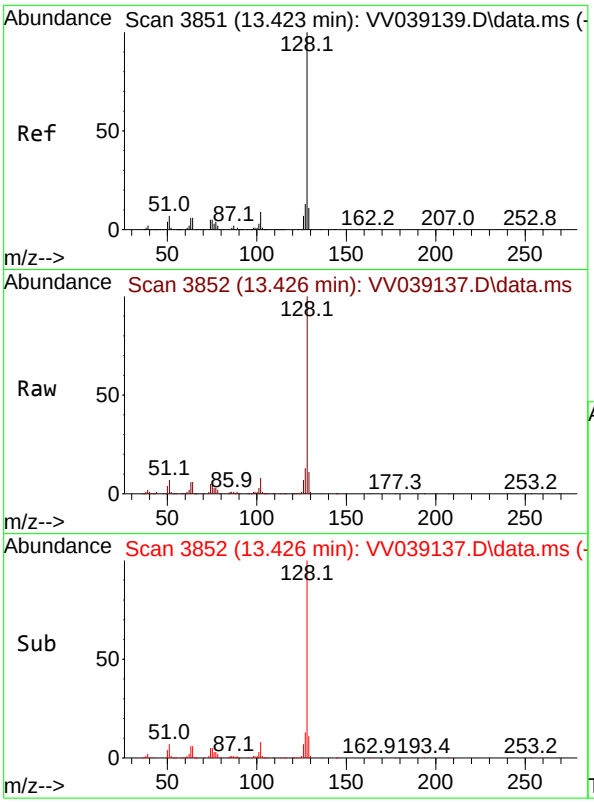




#94
Hexachlorobutadiene
Concen: 9.653 ug/l
RT: 13.368 min Scan# 3834
Delta R.T. -0.000 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:225 Resp: 47413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.6 | 31.6 | 94.7 |
| 227 | 60.2 | 31.8 | 95.4 |



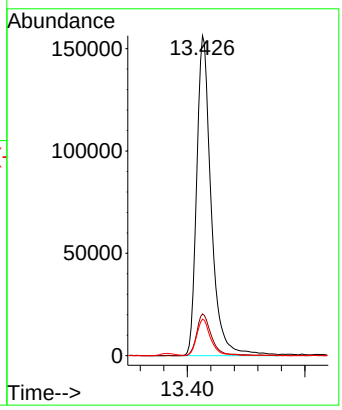


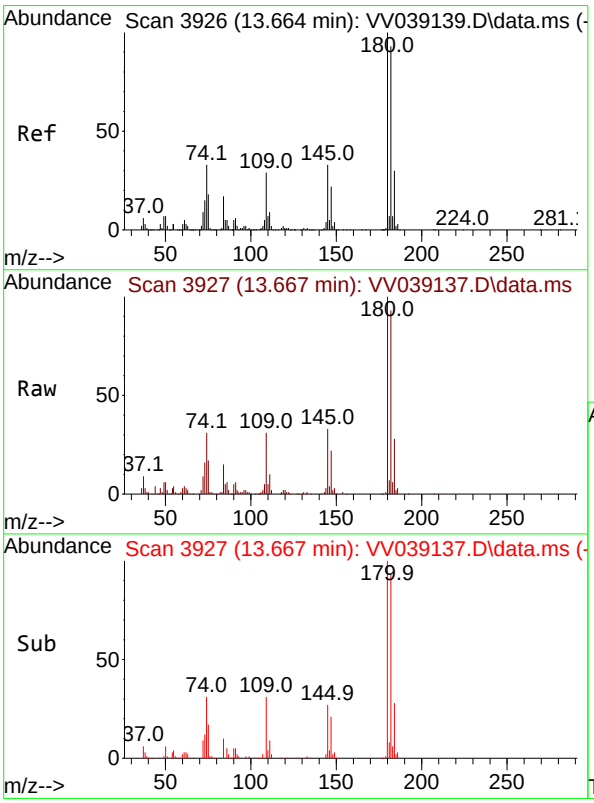

#95
Naphthalene
Concen: 8.803 ug/l
RT: 13.426 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC010

Tgt Ion:128 Resp: 267645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.4 | 10.3 | 15.5 |
| 129 | 10.8 | 8.6 | 13.0 |

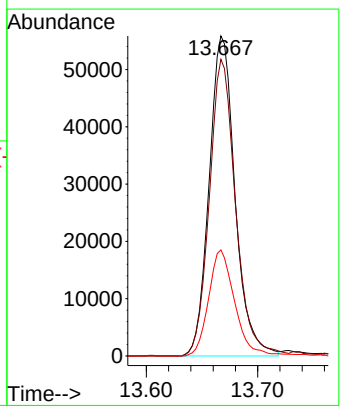



#96
1,2,3-Trichlorobenzene
Concen: 9.334 ug/l
RT: 13.667 min Scan# 3927
Delta R.T. 0.003 min
Lab File: VV039137.D
Acq: 22 Sep 2025 12:26

Tgt Ion:180 Resp: 90238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.8 | 46.9 | 140.8 |
| 145 | 33.7 | 17.0 | 51.0 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039138.D
Acq On : 22 Sep 2025 12:48
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Quant Time: Sep 24 07:22:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.600 | 168 | 545775 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.532 | 114 | 880963 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.773 | 117 | 860340 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.172 | 152 | 509460 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.947 | 65 | 144689 | 18.317 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 36.640%# | | | |
| 35) Dibromofluoromethane | 4.503 | 113 | 134662 | 19.014 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 38.020%# | | | |
| 50) Toluene-d8 | 7.236 | 98 | 384827 | 18.501 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 37.000%# | | | |
| 62) 4-Bromofluorobenzene | 10.002 | 95 | 163597 | 19.105 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 38.220%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.121 | 85 | 165175 | 19.118 | ug/l | 96 |
| 3) Chloromethane | 1.230 | 50 | 177694 | 19.159 | ug/l | 99 |
| 4) Vinyl Chloride | 1.298 | 62 | 186887 | 18.822 | ug/l | 99 |
| 5) Bromomethane | 1.500 | 94 | 119578 | 19.104 | ug/l | 98 |
| 6) Chloroethane | 1.561 | 64 | 124021 | 19.935 | ug/l | 99 |
| 7) Trichlorofluoromethane | 1.729 | 101 | 273532 | 19.027 | ug/l | 100 |
| 8) Diethyl Ether | 1.921 | 74 | 100661 | 18.862 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 2.085 | 101 | 159719 | 18.673 | ug/l | 99 |
| 10) Methyl Iodide | 2.198 | 142 | 161932 | 19.880 | ug/l | 99 |
| 11) Tert butyl alcohol | 2.568 | 59 | 171137 | 102.509 | ug/l | 98 |
| 12) 1,1-Dichloroethene | 2.085 | 96 | 157427 | 19.131 | ug/l | 97 |
| 13) Acrolein | 2.011 | 56 | 29609 | 102.210 | ug/l | 97 |
| 14) Allyl chloride | 2.359 | 41 | 280200 | 19.062 | ug/l | 99 |
| 15) Acrylonitrile | 2.674 | 53 | 504022 | 94.179 | ug/l | 99 |
| 16) Acetone | 2.121 | 43 | 499669 | 95.756 | ug/l | 99 |
| 17) Carbon Disulfide | 2.253 | 76 | 476229 | 18.923 | ug/l | 100 |
| 18) Methyl Acetate | 2.381 | 43 | 226208 | 19.328 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 2.712 | 73 | 498918 | 19.027 | ug/l | 99 |
| 20) Methylene Chloride | 2.458 | 84 | 185050 | 20.143 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 2.703 | 96 | 164898 | 18.823 | ug/l | 97 |
| 22) Diisopropyl ether | 3.217 | 45 | 552331 | 19.640 | ug/l | 83 |
| 23) Vinyl Acetate | 3.191 | 43 | 2445787 | 99.414 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 3.118 | 63 | 320146 | 18.615 | ug/l | 99 |
| 25) 2-Butanone | 3.870 | 43 | 637413 | 102.519 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 3.812 | 77 | 278362 | 18.326 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 3.822 | 96 | 183867 | 19.031 | ug/l | 98 |
| 28) Bromochloromethane | 4.146 | 49 | 164406 | 21.654 | ug/l | 99 |
| 29) Tetrahydrofuran | 4.240 | 42 | 405777 | 102.491 | ug/l | 99 |
| 30) Chloroform | 4.281 | 83 | 342700 | 19.083 | ug/l | 99 |
| 31) Cyclohexane | 4.587 | 56 | 266753 | 18.934 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 4.516 | 97 | 288341 | 18.546 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 4.748 | 75 | 212835 | 19.734 | ug/l | 99 |
| 37) Ethyl Acetate | 3.979 | 43 | 260591 | 19.696 | ug/l | 97 |
| 38) Carbon Tetrachloride | 4.735 | 117 | 250103 | 19.252 | ug/l | 98 |
| 39) Methylcyclohexane | 6.047 | 83 | 253693 | 19.619 | ug/l | 95 |
| 40) Benzene | 5.011 | 78 | 697141 | 19.994 | ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039138.D
Acq On : 22 Sep 2025 12:48
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Quant Time: Sep 24 07:22:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.169 | 41 | 102755 | 18.721 | ug/l | | 95 |
| 42) 1,2-Dichloroethane | 5.043 | 62 | 244487 | 20.012 | ug/l | | 99 |
| 43) Isopropyl Acetate | 5.195 | 43 | 362512 | 19.889 | ug/l | | 98 |
| 44) Trichloroethene | 5.831 | 130 | 160692 | 19.972 | ug/l | | 96 |
| 45) 1,2-Dichloropropane | 6.092 | 63 | 182757 | 21.087 | ug/l | | 96 |
| 46) Dibromomethane | 6.227 | 93 | 129319 | 19.495 | ug/l | | 98 |
| 47) Bromodichloromethane | 6.429 | 83 | 269262 | 19.635 | ug/l | | 97 |
| 48) Methyl methacrylate | 6.301 | 41 | 158251 | 18.977 | ug/l | | 99 |
| 49) 1,4-Dioxane | 6.294 | 88 | 47860 | 365.172 | ug/l | # | 85 |
| 51) 4-Methyl-2-Pentanone | 7.150 | 43 | 1296796 | 111.268 | ug/l | | 98 |
| 52) Toluene | 7.310 | 92 | 422367 | 20.892 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 7.577 | 75 | 245181 | 20.516 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 6.950 | 75 | 273906 | 20.761 | ug/l | | 100 |
| 55) 1,1,2-Trichloroethane | 7.760 | 97 | 176812 | 19.505 | ug/l | | 98 |
| 56) Ethyl methacrylate | 7.719 | 69 | 212320 | 19.723 | ug/l | | 97 |
| 57) 1,3-Dichloropropane | 7.934 | 76 | 291304 | 20.363 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 6.815 | 63 | 536254 | 94.274 | ug/l | | 99 |
| 59) 2-Hexanone | 8.066 | 43 | 940265 | 101.225 | ug/l | | 98 |
| 60) Dibromochloromethane | 8.169 | 129 | 200793 | 19.440 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 8.275 | 107 | 189555 | 20.447 | ug/l | | 99 |
| 64) Tetrachloroethene | 7.899 | 164 | 141876 | 19.688 | ug/l | | 99 |
| 65) Chlorobenzene | 8.805 | 112 | 470841 | 19.648 | ug/l | | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 8.899 | 131 | 167936 | 19.395 | ug/l | | 99 |
| 67) Ethyl Benzene | 8.937 | 91 | 737391 | 20.328 | ug/l | | 99 |
| 68) m/p-Xylenes | 9.063 | 106 | 607362 | 43.381 | ug/l | | 99 |
| 69) o-Xylene | 9.468 | 106 | 255212 | 20.587 | ug/l | | 100 |
| 70) Styrene | 9.487 | 104 | 475382 | 19.022 | ug/l | | 99 |
| 71) Bromoform | 9.654 | 173 | 132242 | 19.552 | ug/l | | 98 |
| 73) Isopropylbenzene | 9.857 | 105 | 741305 | 20.062 | ug/l | | 99 |
| 74) N-amyl acetate | 9.725 | 43 | 306963 | 20.826 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 10.165 | 83 | 297741 | 18.390 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 10.198 | 75 | 213532 | 18.409 | ug/l | | 99 |
| 77) Bromobenzene | 10.140 | 156 | 187188 | 19.525 | ug/l | | 96 |
| 78) n-propylbenzene | 10.278 | 91 | 905281 | 20.118 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 10.349 | 91 | 547836 | 20.346 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 10.464 | 105 | 640175 | 20.843 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 9.928 | 75 | 91848 | 19.009 | ug/l | | 96 |
| 82) 4-Chlorotoluene | 10.461 | 91 | 655427 | 20.993 | ug/l | | 99 |
| 83) tert-Butylbenzene | 10.789 | 119 | 587151 | 19.172 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 10.841 | 105 | 631679 | 21.185 | ug/l | | 100 |
| 85) sec-Butylbenzene | 11.011 | 105 | 808869 | 19.912 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 11.165 | 119 | 682814 | 20.196 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 11.104 | 146 | 374208 | 19.287 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 11.198 | 146 | 397526 | 18.539 | ug/l | | 100 |
| 89) n-Butylbenzene | 11.580 | 91 | 640044 | 19.822 | ug/l | | 99 |
| 90) Hexachloroethane | 11.818 | 117 | 150843 | 18.118 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 11.567 | 146 | 336566 | 18.567 | ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.352 | 75 | 57671 | 19.989 | ug/l | | 98 |
| 93) 1,2,4-Trichlorobenzene | 13.185 | 180 | 196334 | 18.894 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 13.368 | 225 | 96610 | 17.893 | ug/l | | 98 |
| 95) Naphthalene | 13.426 | 128 | 634557 | 18.986 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 13.667 | 180 | 198308 | 18.659 | ug/l | | 97 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039138.D
Acq On : 22 Sep 2025 12:48
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Quant Time: Sep 24 07:22:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

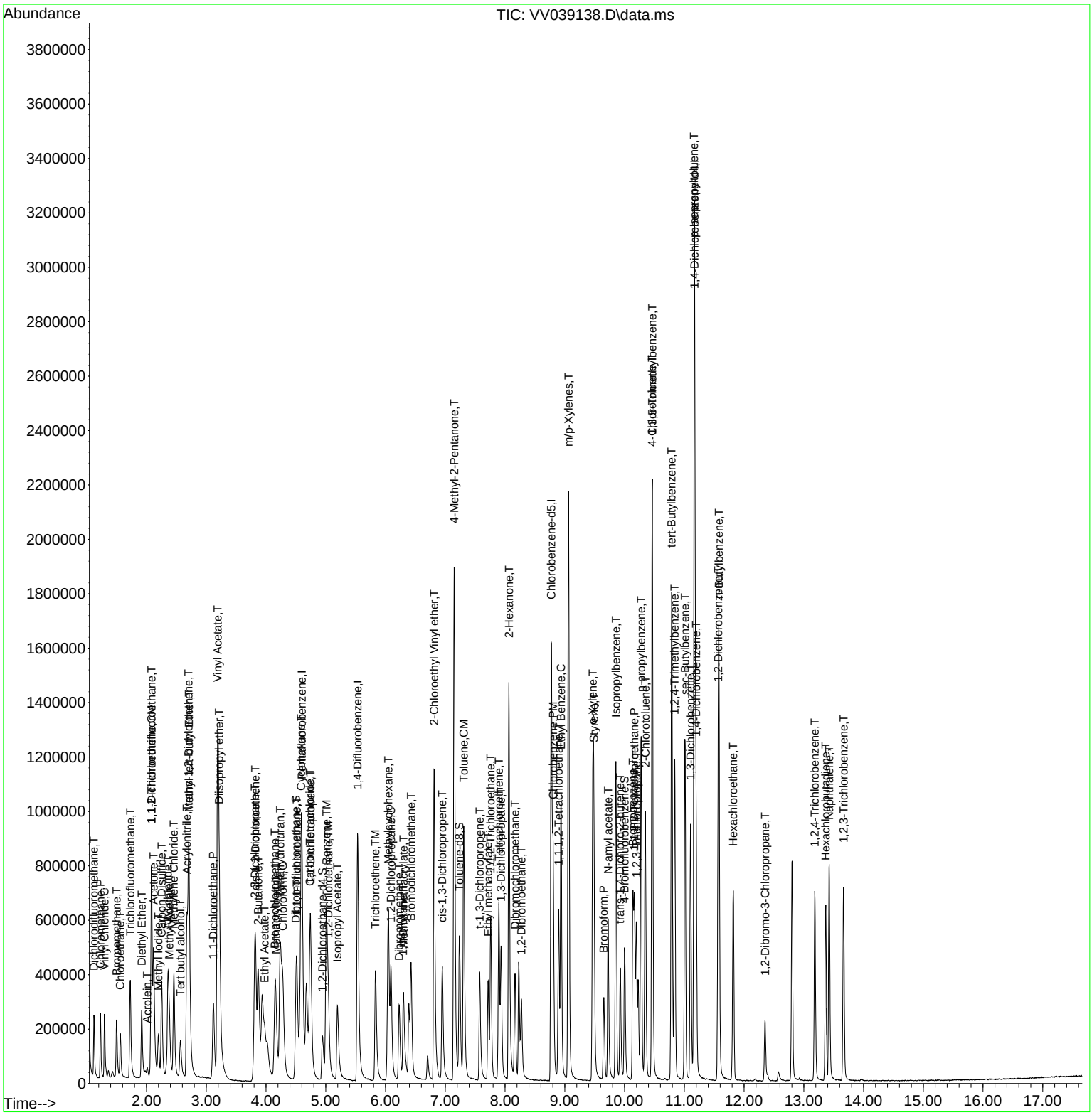
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

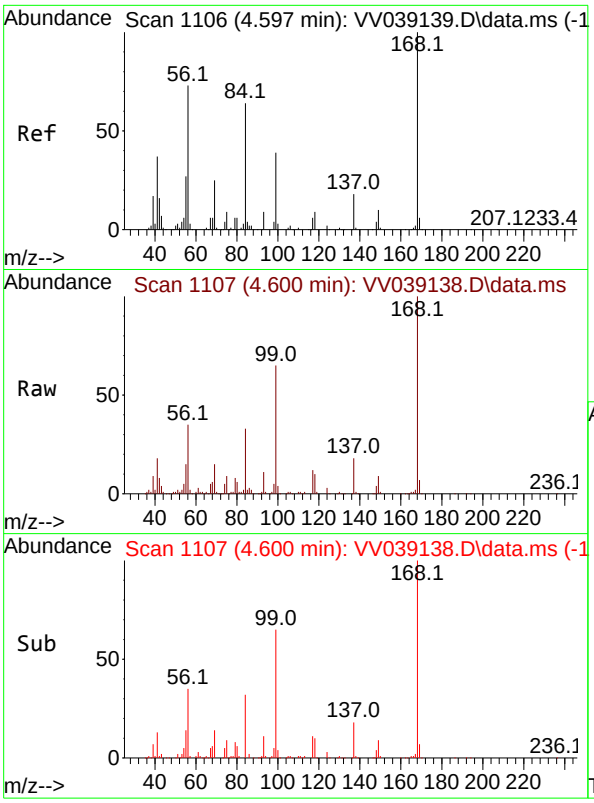
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039138.D
Acq On : 22 Sep 2025 12:48
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Quant Time: Sep 24 07:22:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration



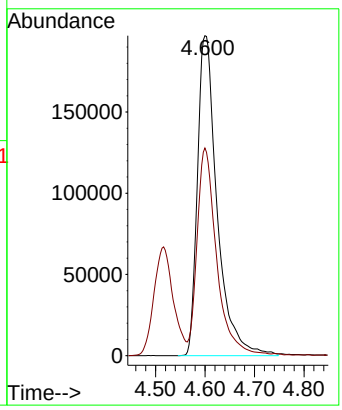


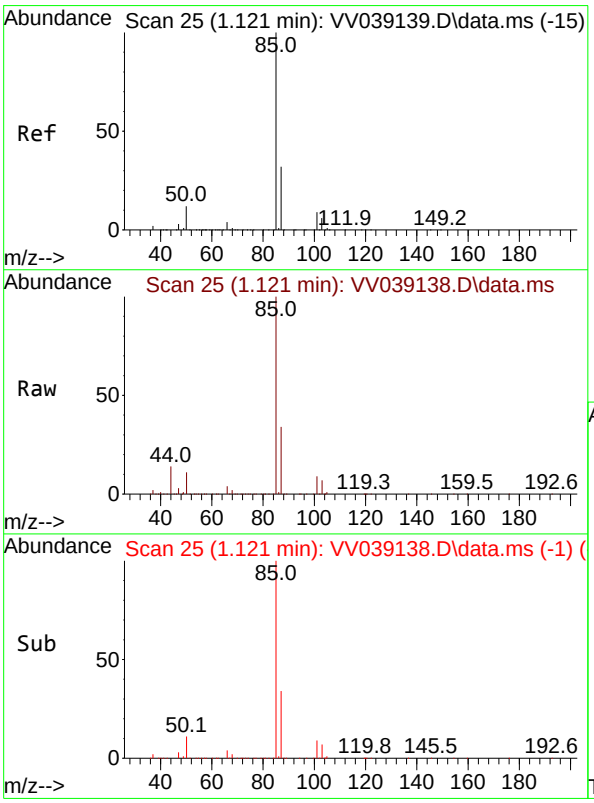

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion:168 Resp: 545775

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 64.3 | 49.6 | 74.4 |

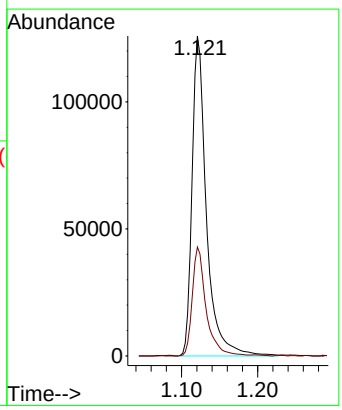


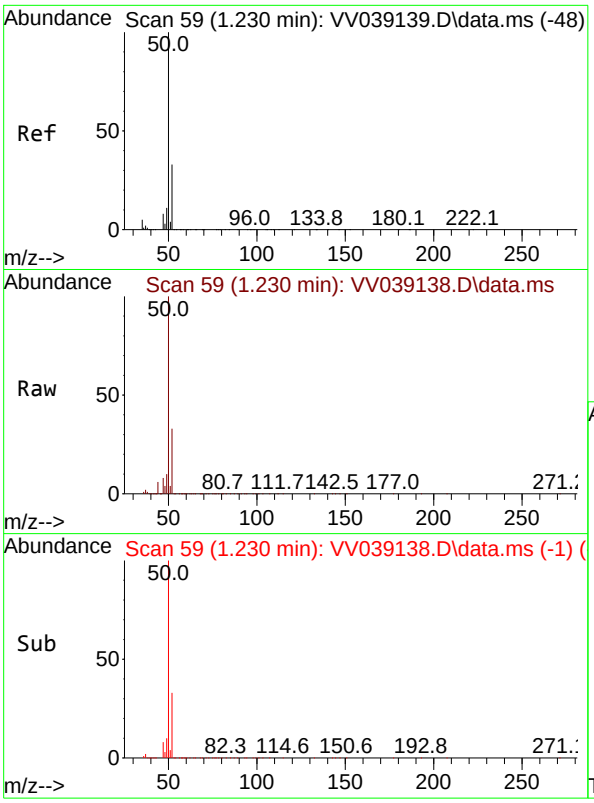




#2
Dichlorodifluoromethane
Concen: 19.118 ug/l
RT: 1.121 min Scan# 25
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 85 Resp: 165175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 34.0 | 16.0 | 47.9 |



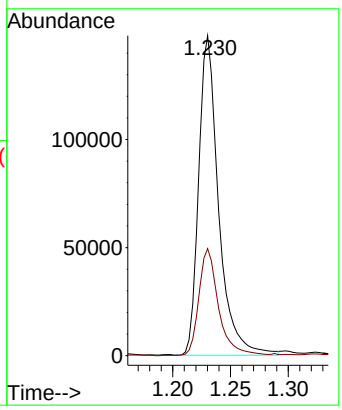


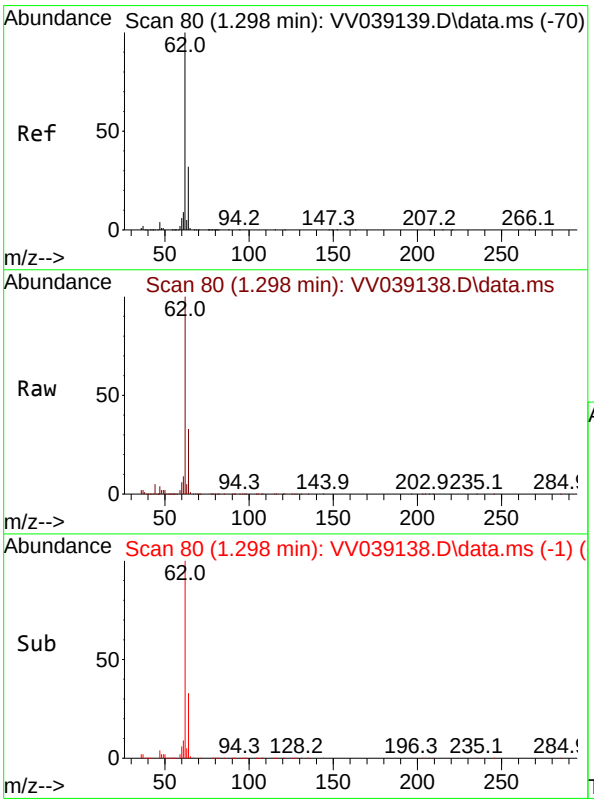

#3
Chloromethane
Concen: 19.159 ug/l
RT: 1.230 min Scan# 5
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion: 50 Resp: 177694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.3 | 26.0 | 39.0 |

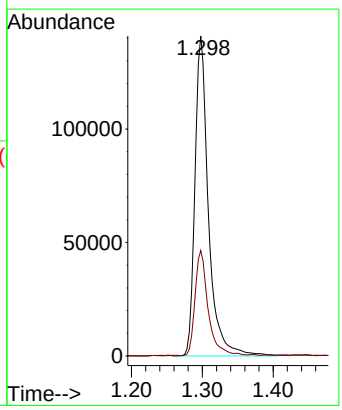


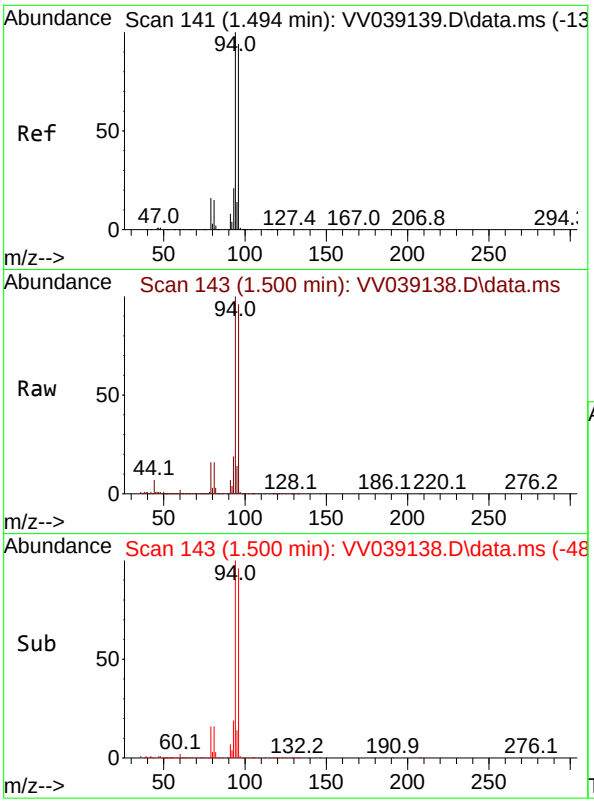




#4
Vinyl Chloride
Concen: 18.822 ug/l
RT: 1.298 min Scan# 80
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 62 Resp: 186887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.8 | 25.6 | 38.4 |



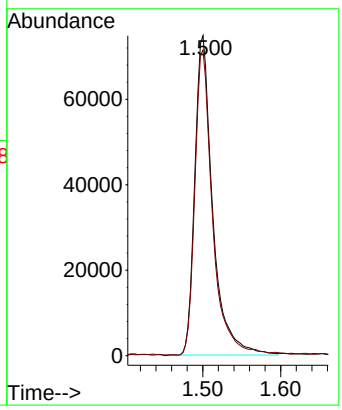


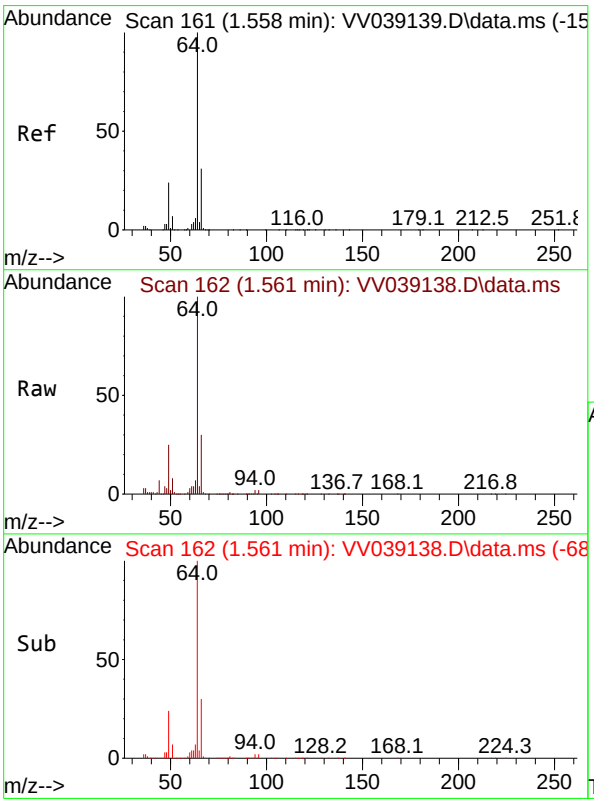

#5
Bromomethane
Concen: 19.104 ug/l
RT: 1.500 min Scan# 14
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion: 94 Resp: 119578

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 95.6 | 74.9 | 112.3 |

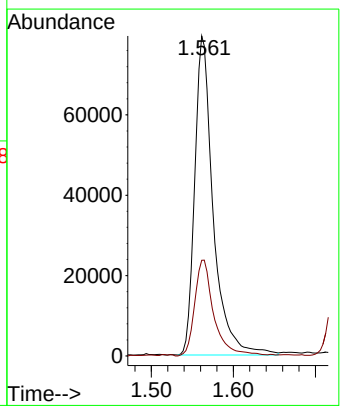


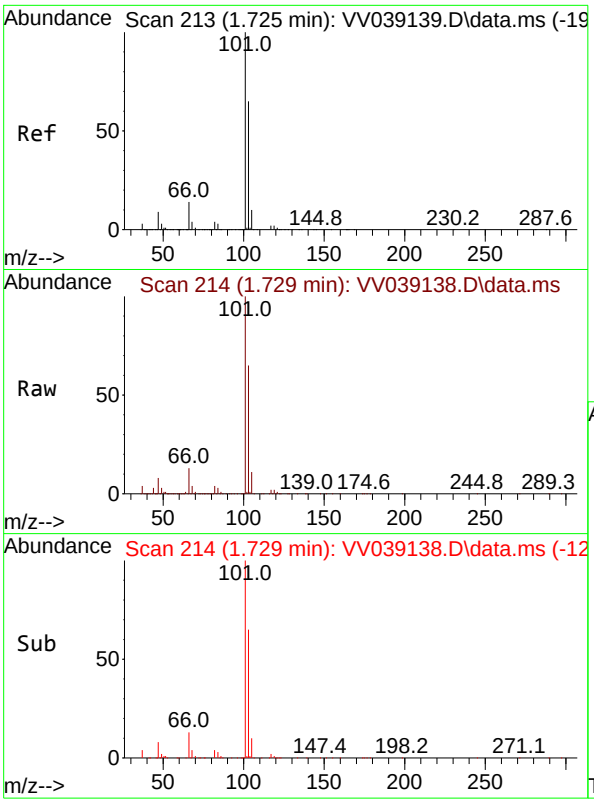




#6
Chloroethane
Concen: 19.935 ug/l
RT: 1.561 min Scan# 162
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 64 Resp: 124021

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.0 | 24.6 | 36.8 |



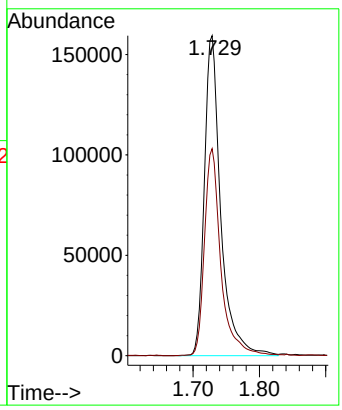


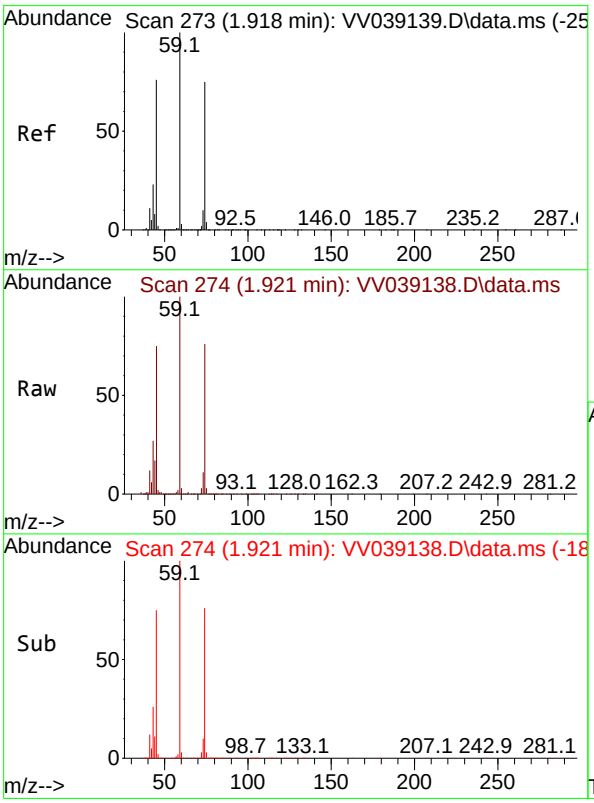

#7
Trichlorofluoromethane
Concen: 19.027 ug/l
RT: 1.729 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion:101 Resp: 273532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.6 | 52.0 | 78.0 |

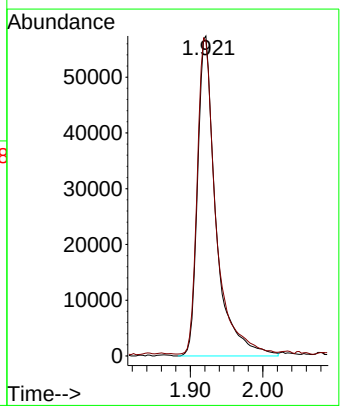


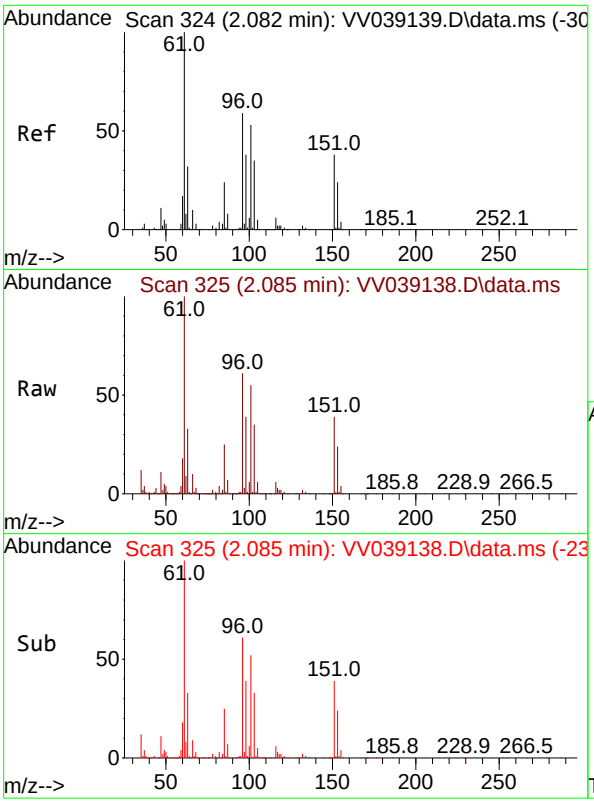




#8
Diethyl Ether
Concen: 18.862 ug/l
RT: 1.921 min Scan# 274
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 74 Resp: 100661

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 100.4 | 49.6 | 148.8 |



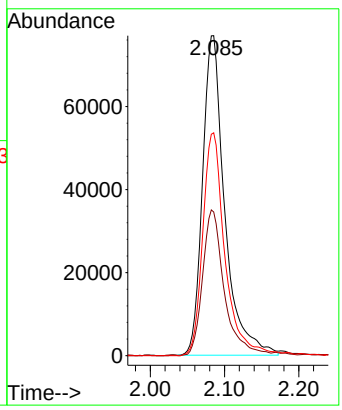


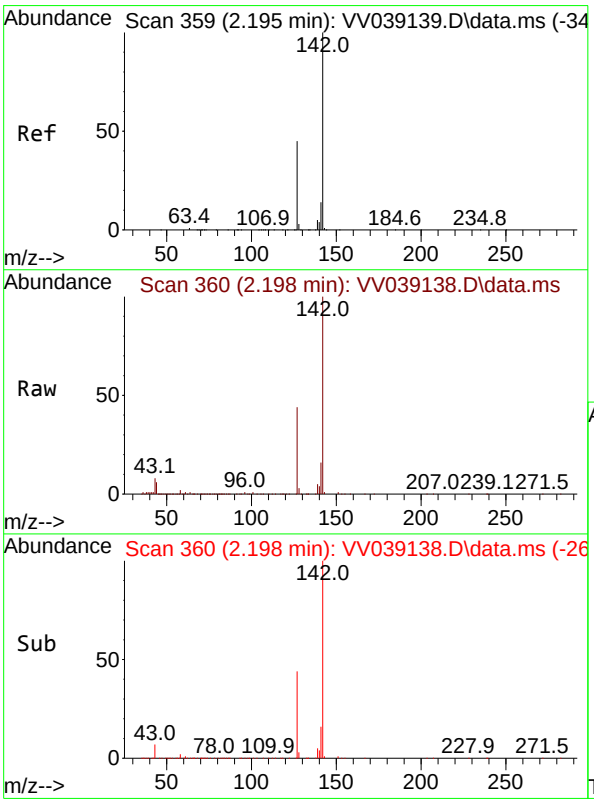

#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.673 ug/l
RT: 2.085 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion:101 Resp: 159719

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 44.7 | 36.2 | 54.2 |
| 151 | 69.8 | 56.3 | 84.5 |

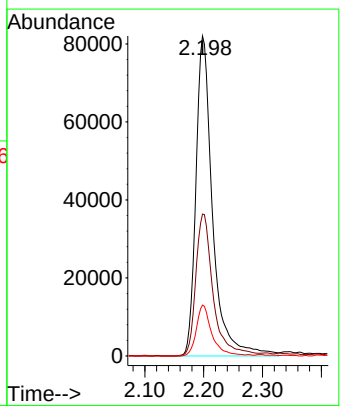


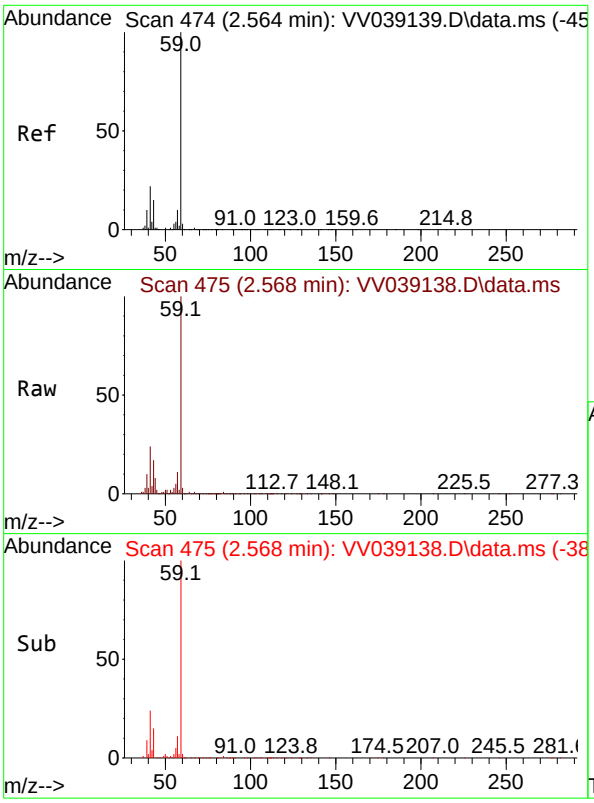




#10
Methyl Iodide
Concen: 19.880 ug/l
RT: 2.198 min Scan# 360
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:142 Resp: 161932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 46.1 | 36.3 | 54.5 |
| 141 | 14.8 | 11.2 | 16.8 |



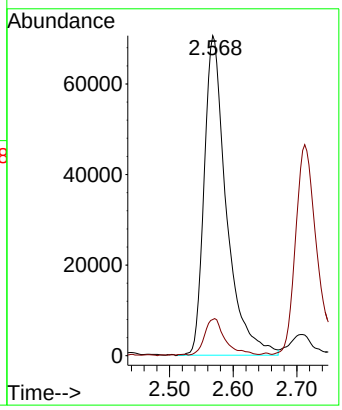


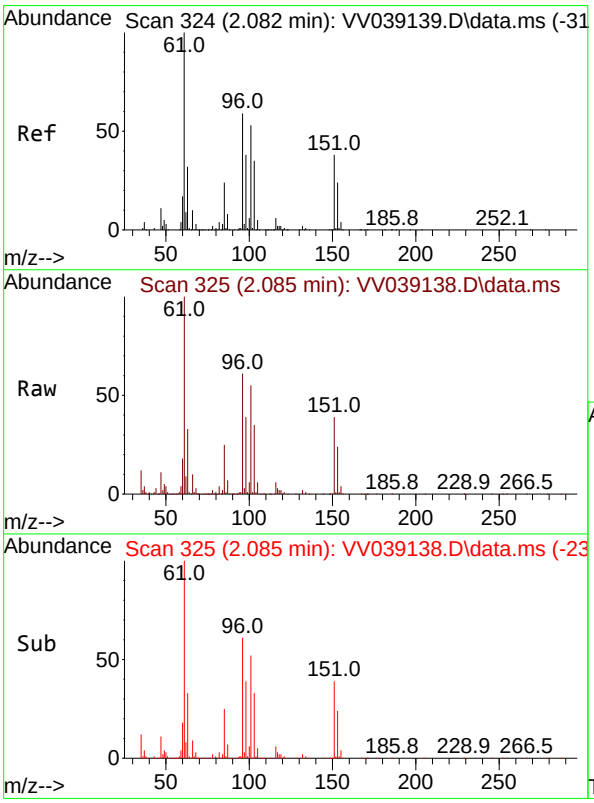

#11
Tert butyl alcohol
Concen: 102.509 ug/l
RT: 2.568 min Scan# 4
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion: 59 Resp: 171137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.5 | 7.8 | 11.8 |

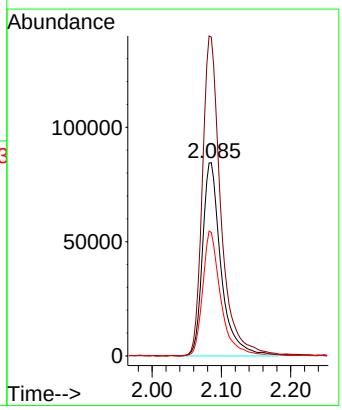


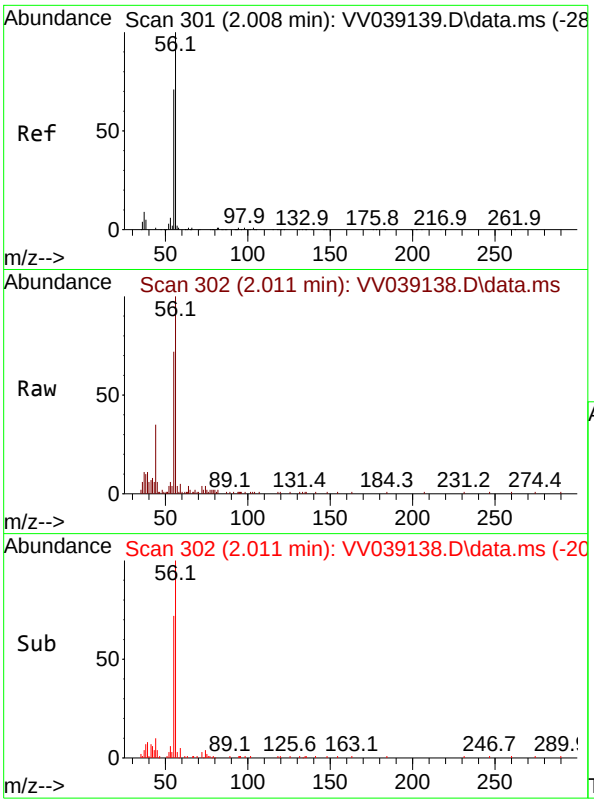




#12
1,1-Dichloroethene
Concen: 19.131 ug/l
RT: 2.085 min Scan# 325
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 96 Resp: 157427

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 164.7 | 136.0 | 204.0 |
| 98 | 63.9 | 51.0 | 76.6 |



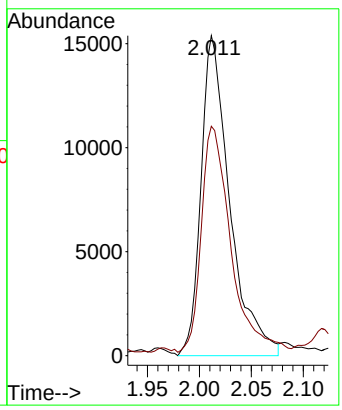


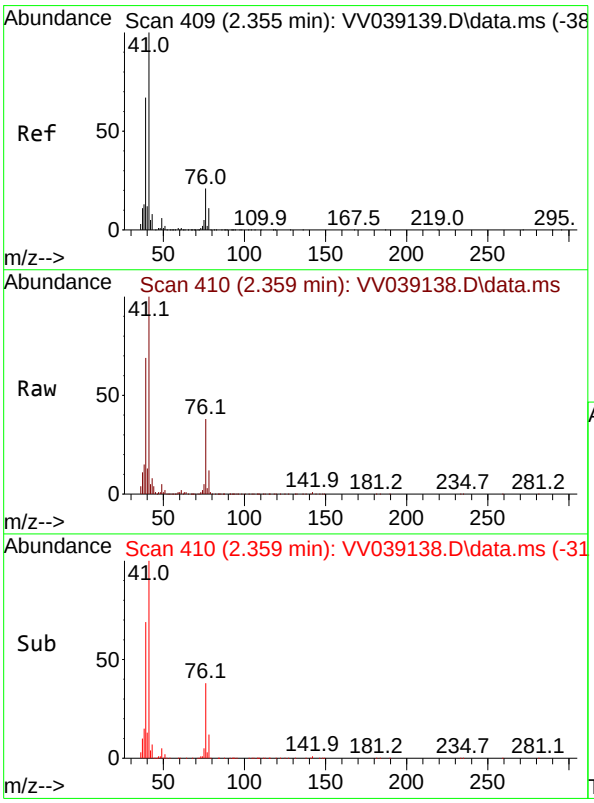

#13
Acrolein
Concen: 102.210 ug/l
RT: 2.011 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion: 56 Resp: 29609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 72.5 | 56.2 | 84.4 |

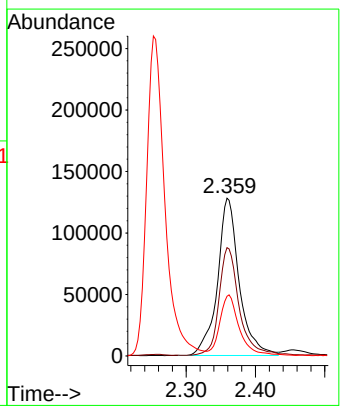


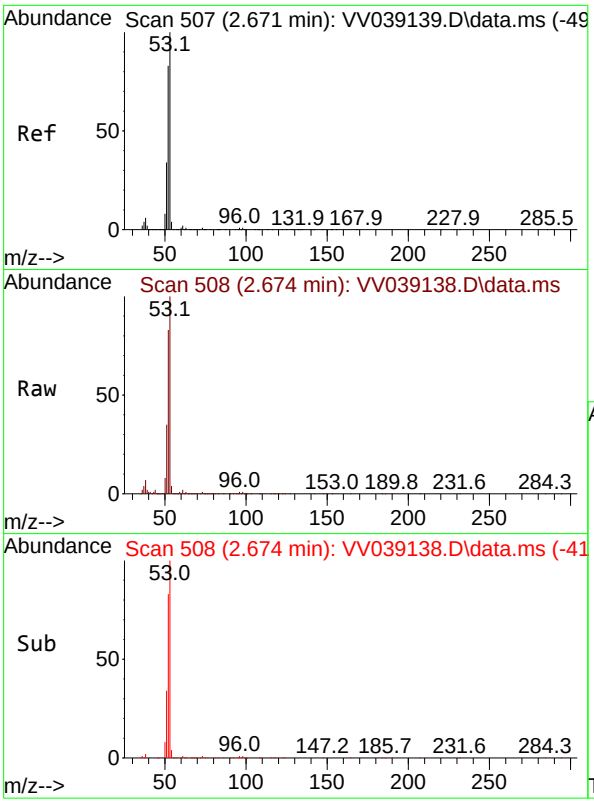




#14
Allyl chloride
Concen: 19.062 ug/l
RT: 2.359 min Scan# 410
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 41 Resp: 280200

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 63.6 | 51.0 | 76.6 |
| 76 | 34.5 | 28.2 | 42.4 |



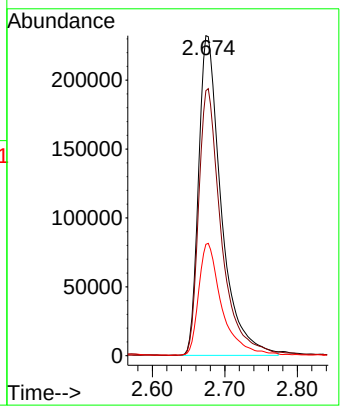


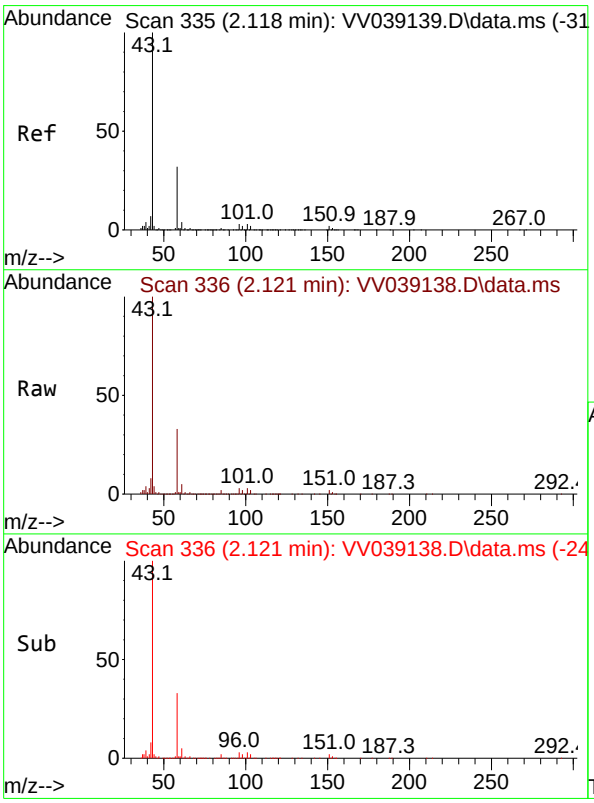

#15
Acrylonitrile
Concen: 94.179 ug/l
RT: 2.674 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion: 53 Resp: 504022

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 83.5 | 66.1 | 99.1 |
| 51 | 35.7 | 28.5 | 42.7 |

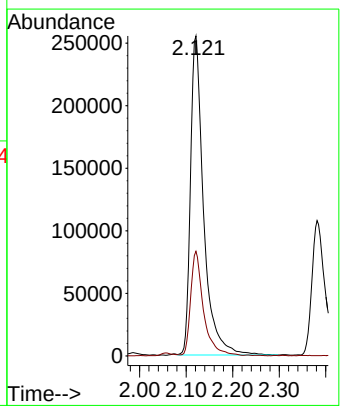


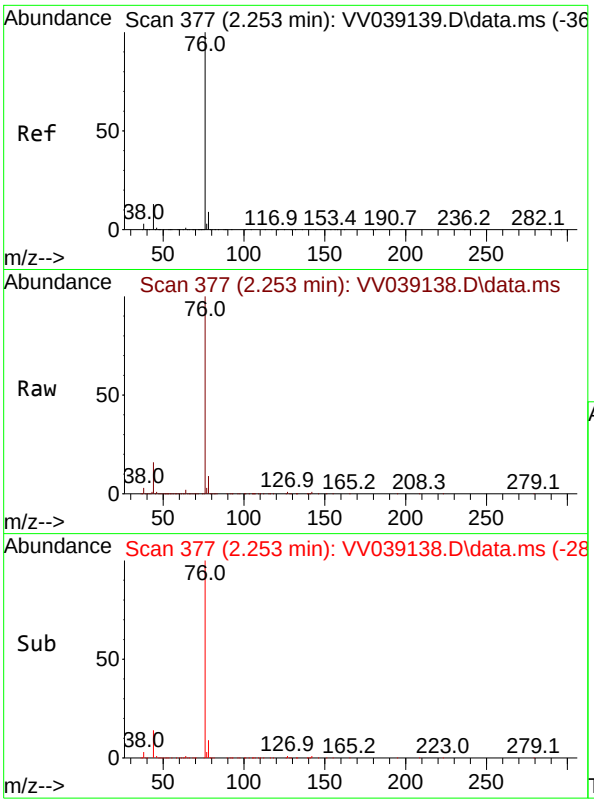




#16
Acetone
Concen: 95.756 ug/l
RT: 2.121 min Scan# 336
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 43 Resp: 499669

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.7 | 25.8 | 38.6 |



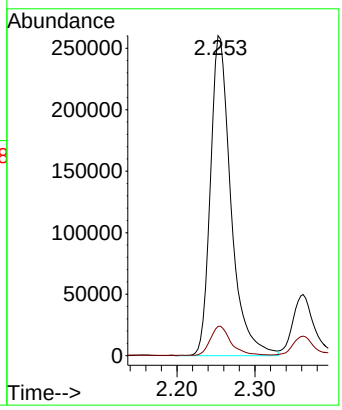


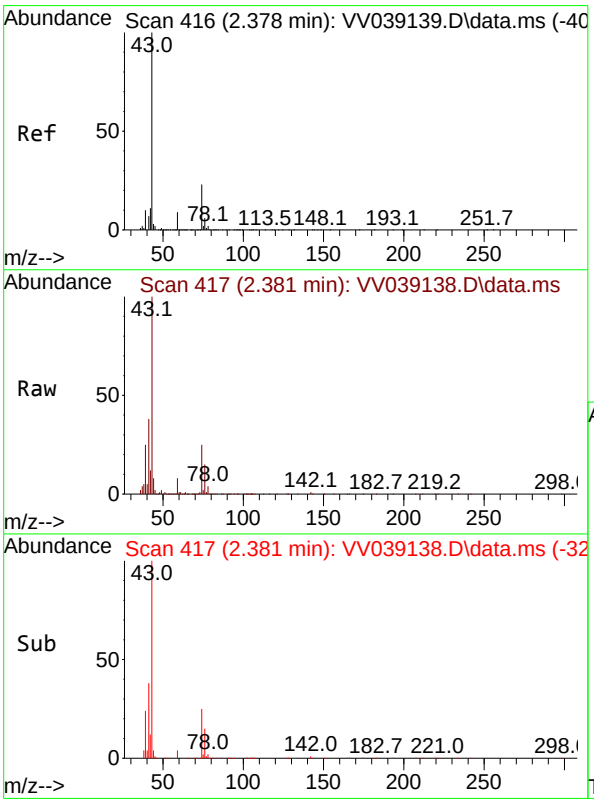

#17
Carbon Disulfide
Concen: 18.923 ug/l
RT: 2.253 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion: 76 Resp: 476229

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.1 | 7.4 | 11.0 |

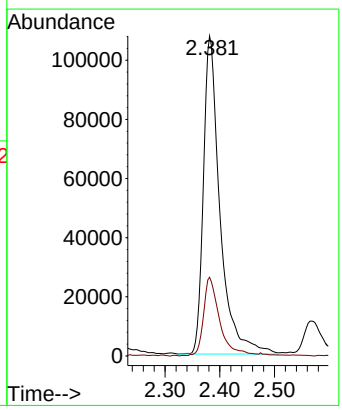


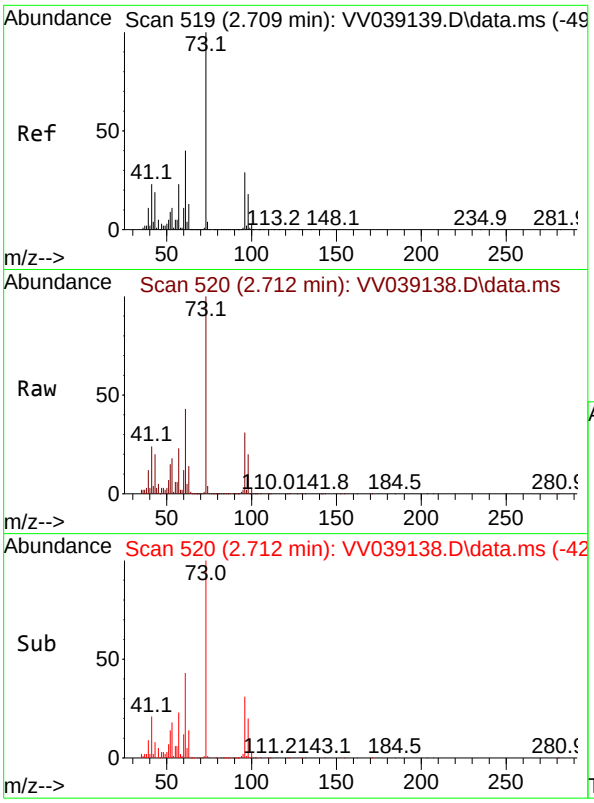




#18
Methyl Acetate
Concen: 19.328 ug/l
RT: 2.381 min Scan# 417
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 43 Resp: 226208

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 24.2 | 18.6 | 27.8 |



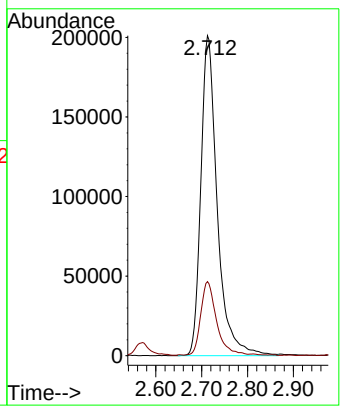


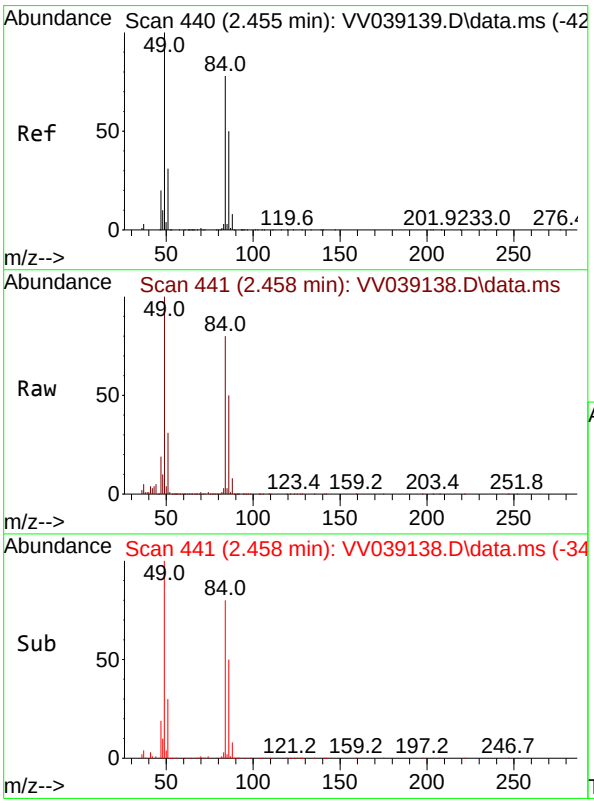

#19
Methyl tert-butyl Ether
Concen: 19.027 ug/l
RT: 2.712 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion: 73 Resp: 498918

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 23.1 | 18.2 | 27.4 |

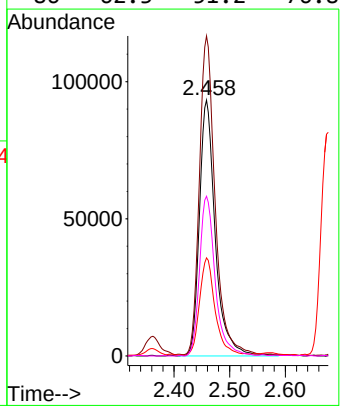


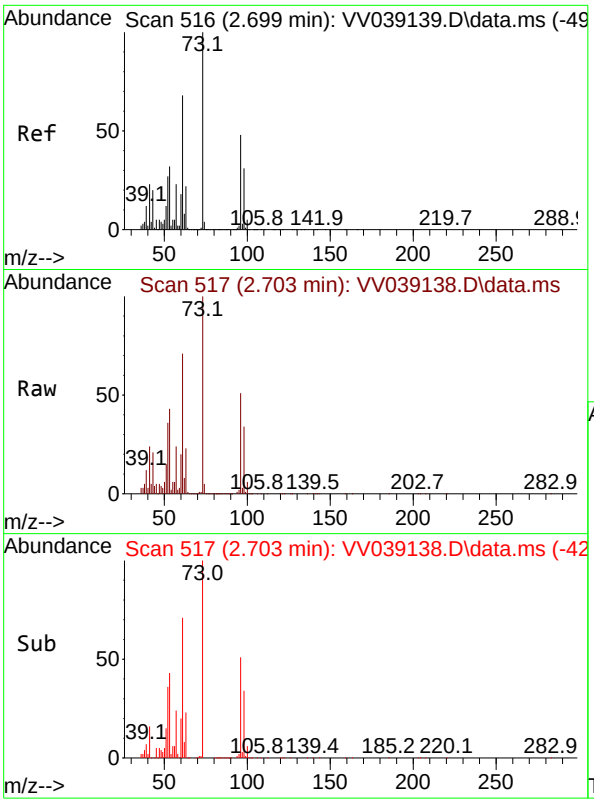




#20
Methylene Chloride
Concen: 20.143 ug/l
RT: 2.458 min Scan# 441
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 84 Resp: 185050

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 124.6 | 102.8 | 154.2 |
| 51 | 38.0 | 31.9 | 47.9 |
| 86 | 62.3 | 51.2 | 76.8 |



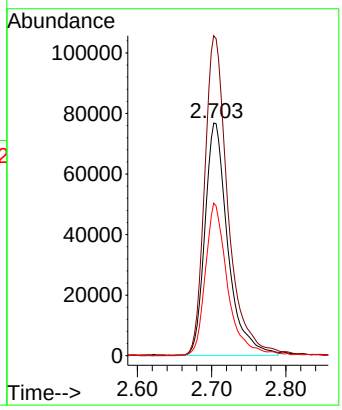


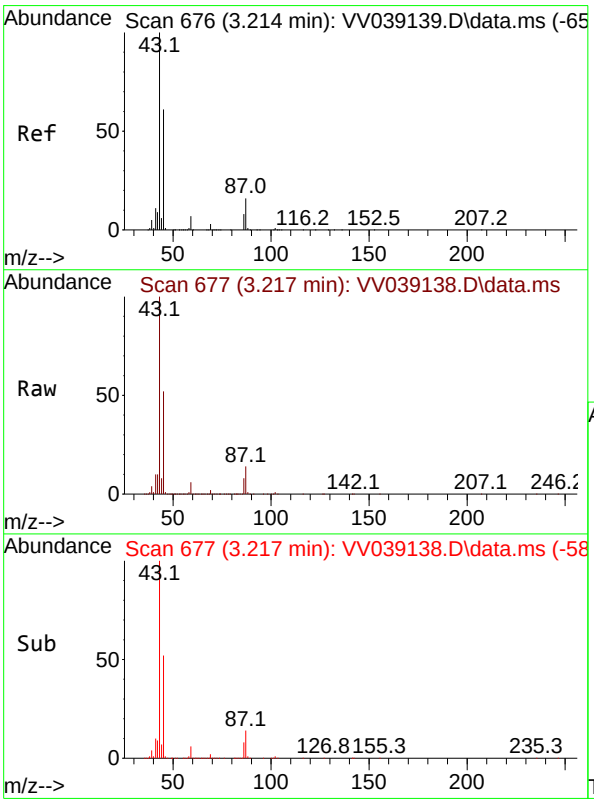

#21
trans-1,2-Dichloroethene
Concen: 18.823 ug/l
RT: 2.703 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion: 96 Resp: 164898

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 137.4 | 112.8 | 169.2 |
| 98 | 65.4 | 51.1 | 76.7 |

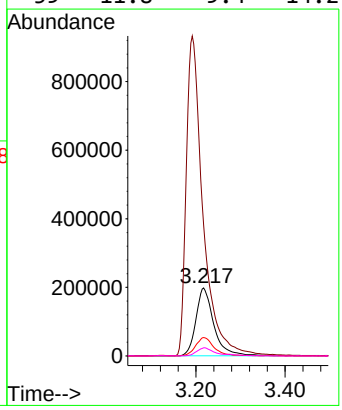


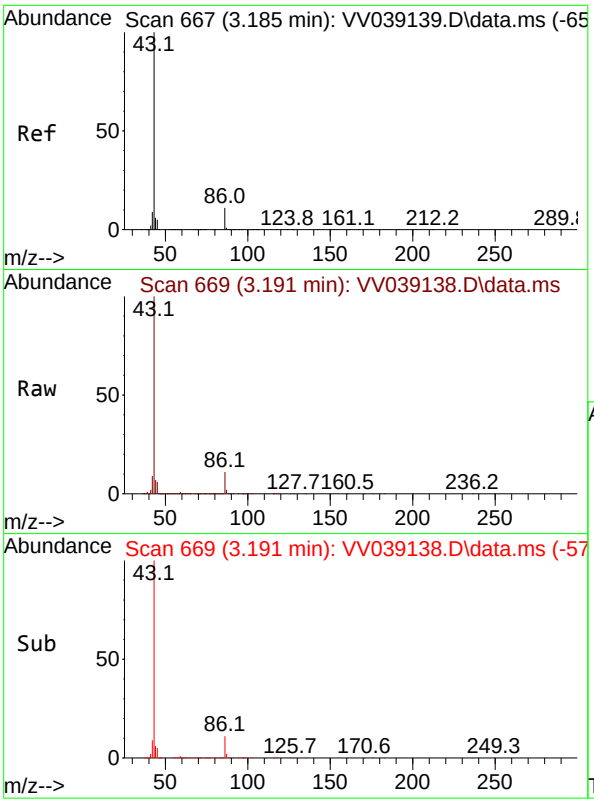




#22
Diisopropyl ether
Concen: 19.640 ug/l
RT: 3.217 min Scan# 677
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 45 Resp: 552331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 191.3 | 130.9 | 196.3 |
| 87 | 27.0 | 21.1 | 31.7 |
| 59 | 11.8 | 9.4 | 14.2 |



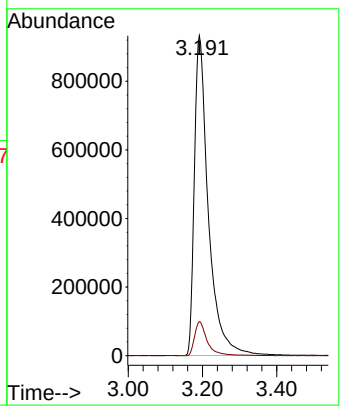


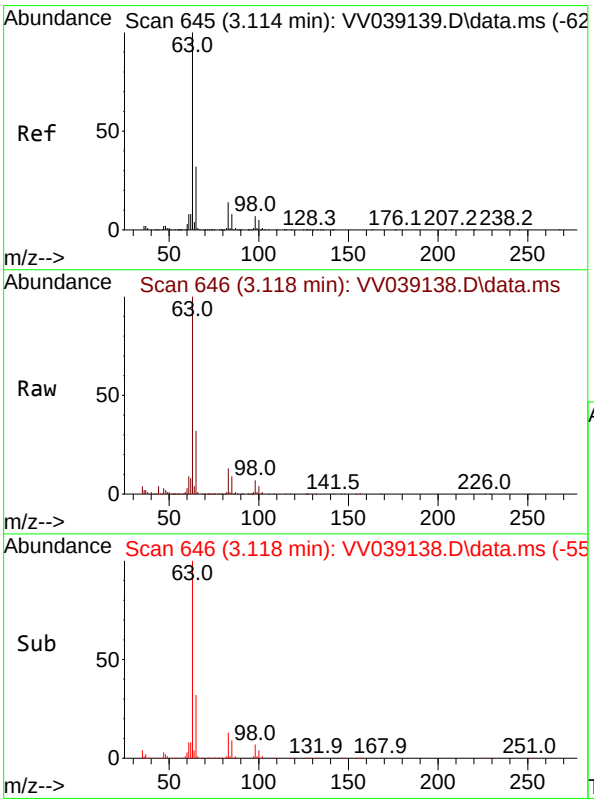

#23
Vinyl Acetate
Concen: 99.414 ug/l
RT: 3.191 min Scan# 6
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion: 43 Resp: 2445787

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.7 | 8.4 | 12.6 |

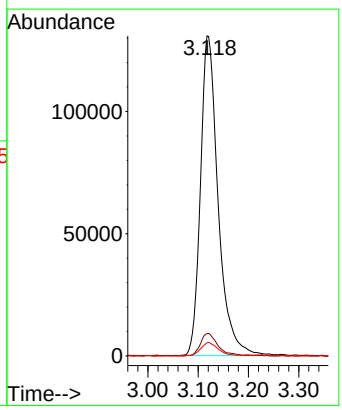


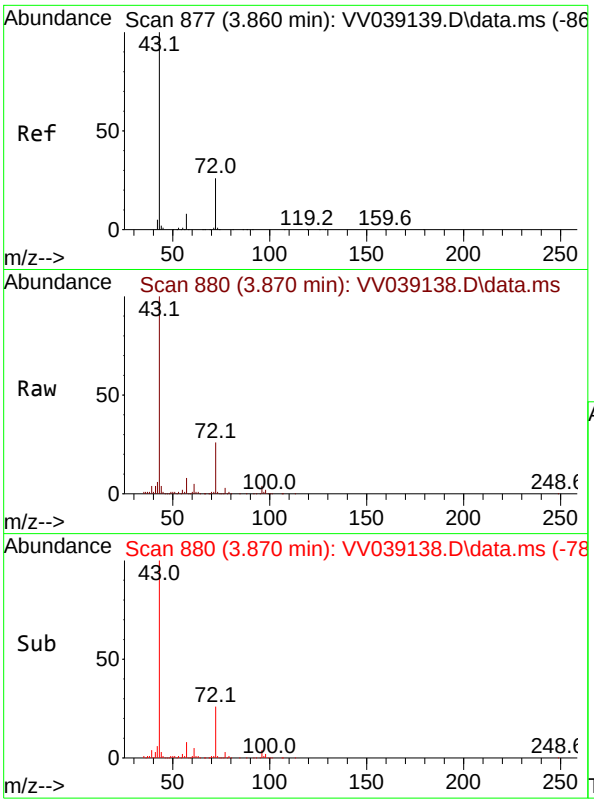




#24
1,1-Dichloroethane
Concen: 18.615 ug/l
RT: 3.118 min Scan# 646
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 63 Resp: 320146

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.0 | 3.4 | 10.2 |
| 100 | 4.1 | 2.2 | 6.6 |



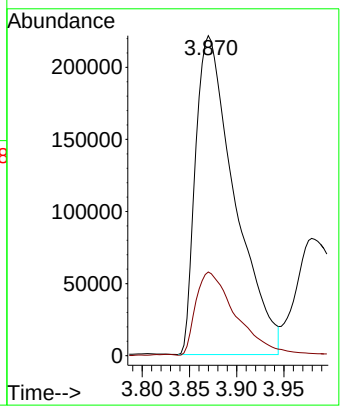


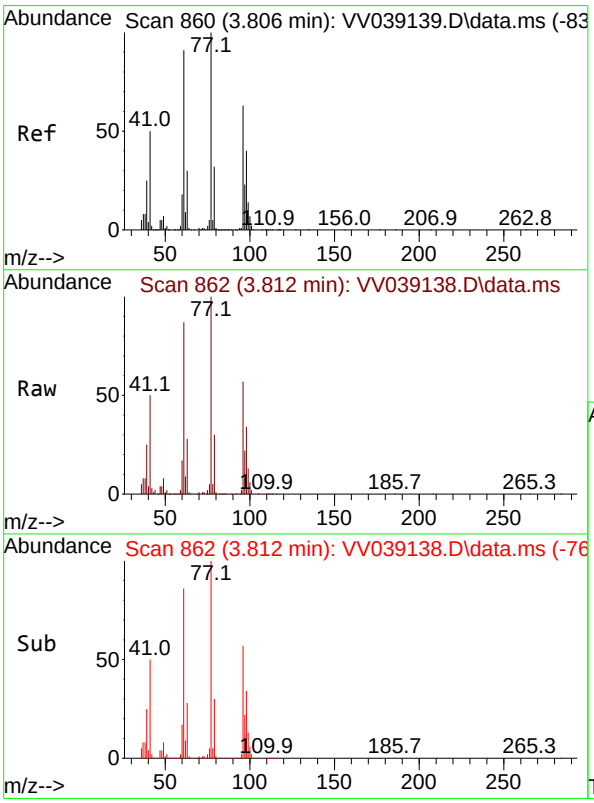

#25
2-Butanone
Concen: 102.519 ug/l
RT: 3.870 min Scan# 8
Delta R.T. 0.010 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion: 43 Resp: 637413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 26.1 | 21.0 | 31.6 |

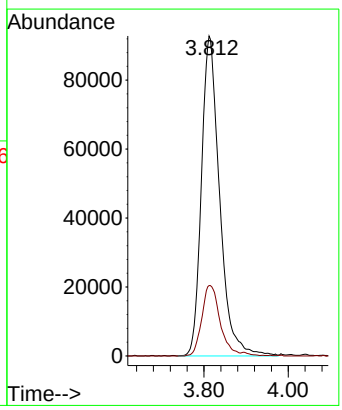


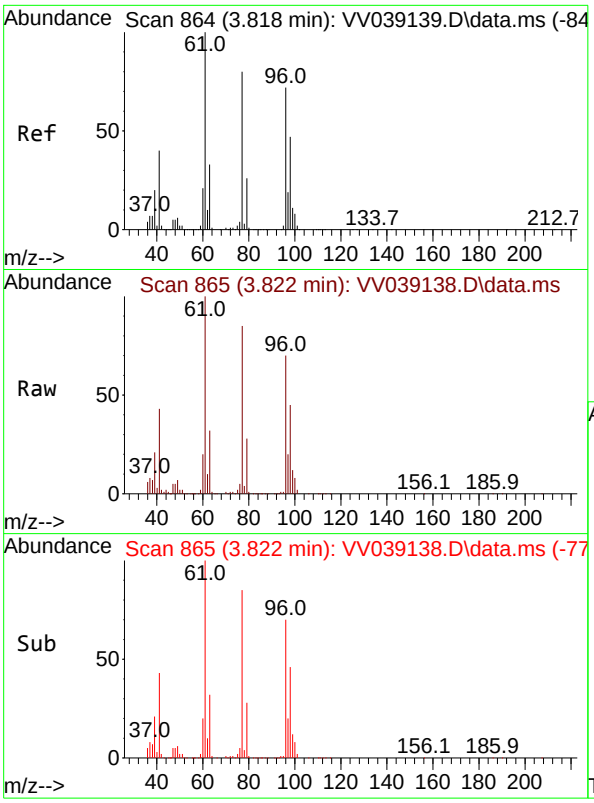




#26
2,2-Dichloropropane
Concen: 18.326 ug/l
RT: 3.812 min Scan# 862
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 77 Resp: 278362

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 21.9 | 11.6 | 34.7 |



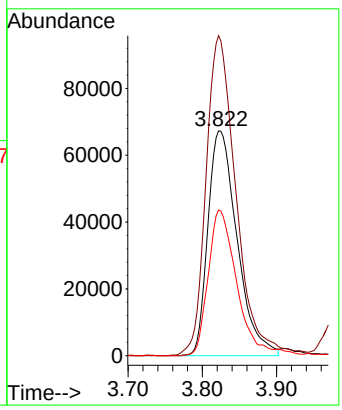


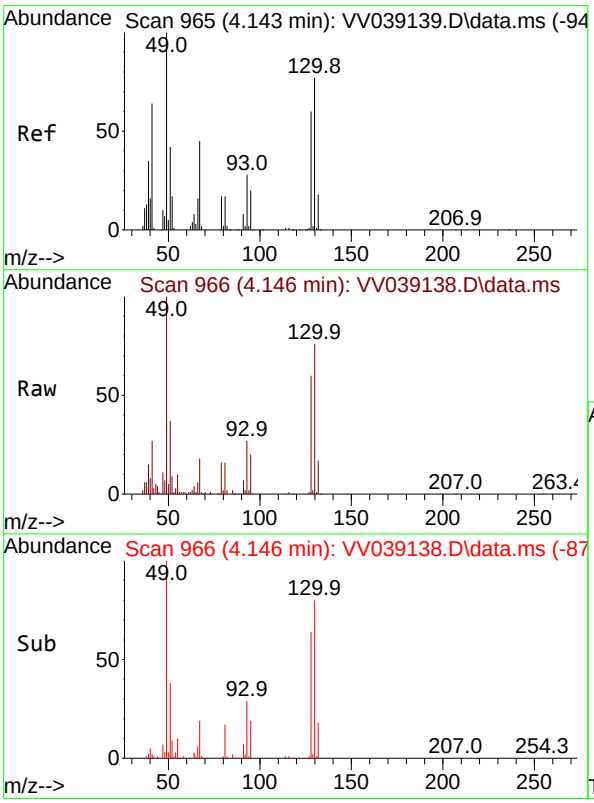

#27
cis-1,2-Dichloroethene
Concen: 19.031 ug/l
RT: 3.822 min Scan# 8
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion: 96 Resp: 183867

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 146.5 | 0.0 | 286.4 |
| 98 | 63.8 | 0.0 | 126.6 |

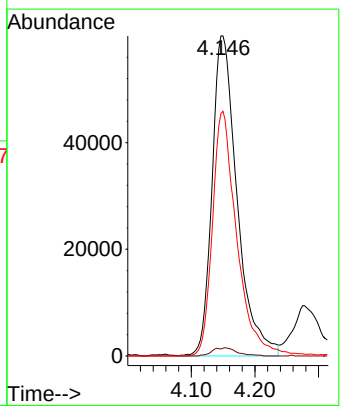


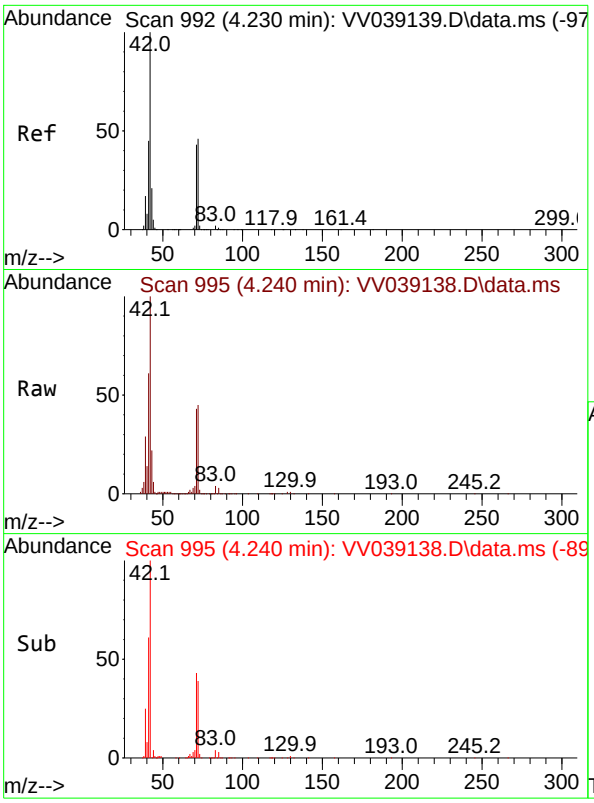




#28
Bromochloromethane
Concen: 21.654 ug/l
RT: 4.146 min Scan# 966
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 49 Resp: 164406

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.0 | 0.0 | 4.2 |
| 130 | 74.3 | 60.2 | 90.2 |



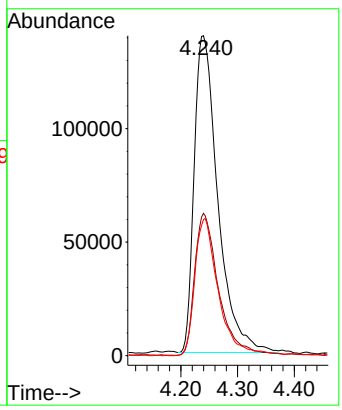


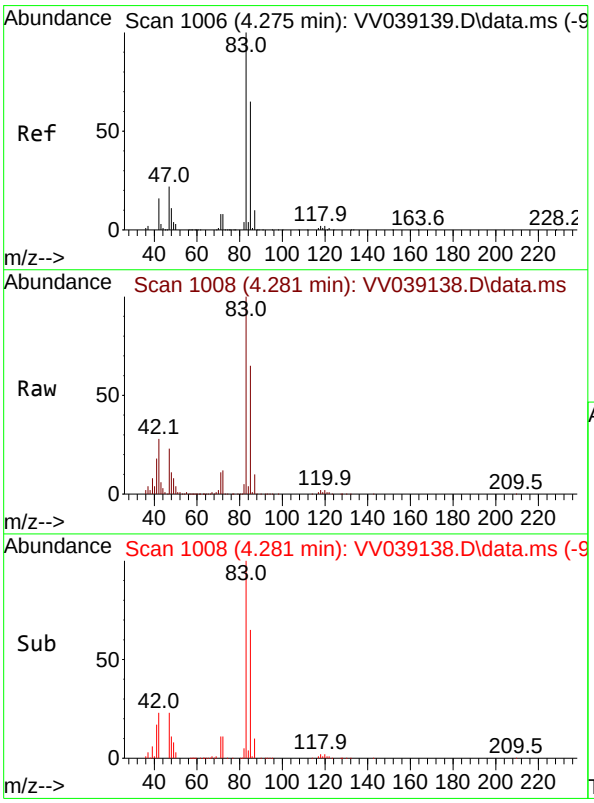

#29
Tetrahydrofuran
Concen: 102.491 ug/l
RT: 4.240 min Scan# 9
Delta R.T. 0.010 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion: 42 Resp: 405777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 45.2 | 36.3 | 54.5 |
| 71 | 42.2 | 34.3 | 51.5 |

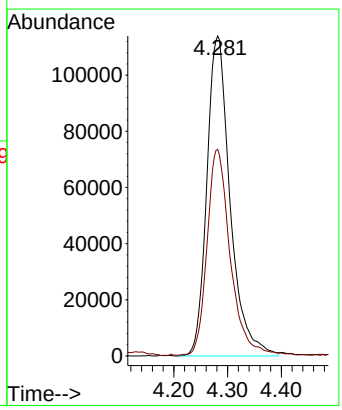


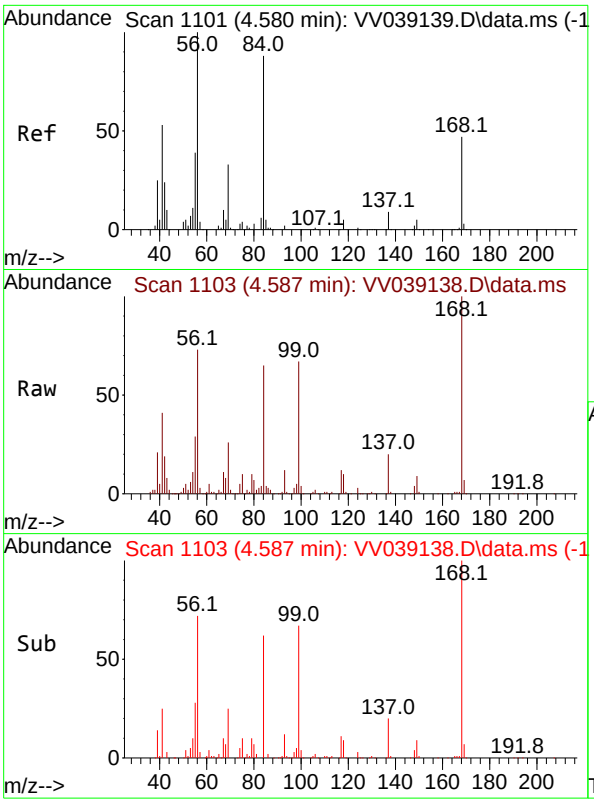




#30
Chloroform
Concen: 19.083 ug/l
RT: 4.281 min Scan# 1008
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 83 Resp: 342700

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.3 | 52.1 | 78.1 |



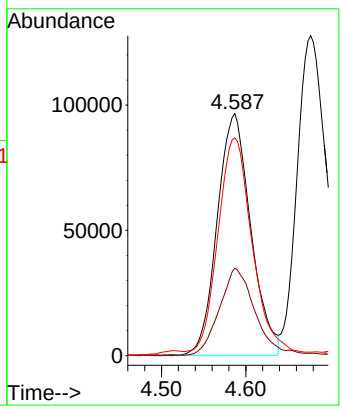


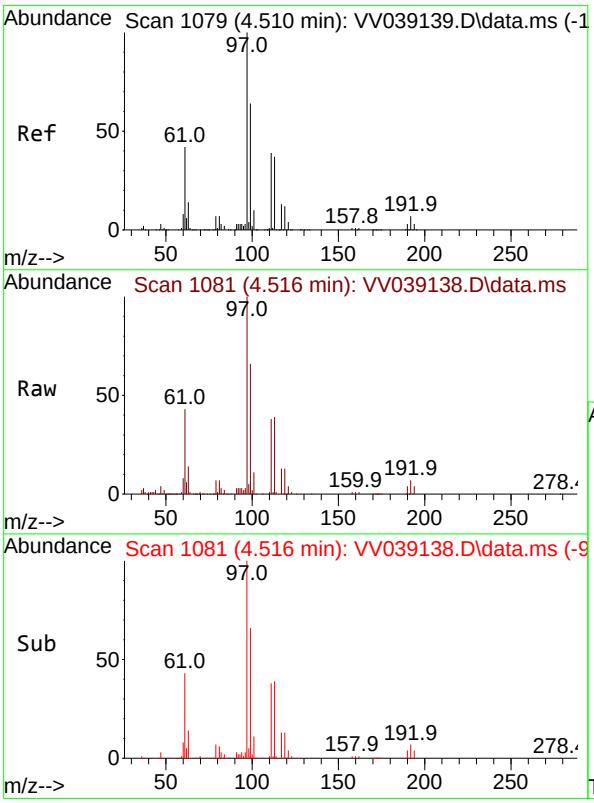

#31
Cyclohexane
Concen: 18.934 ug/l
RT: 4.587 min Scan# 11
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion: 56 Resp: 266753

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 36.0 | 26.2 | 39.2 |
| 84 | 88.2 | 70.3 | 105.5 |

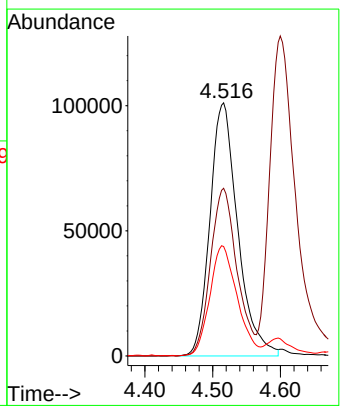


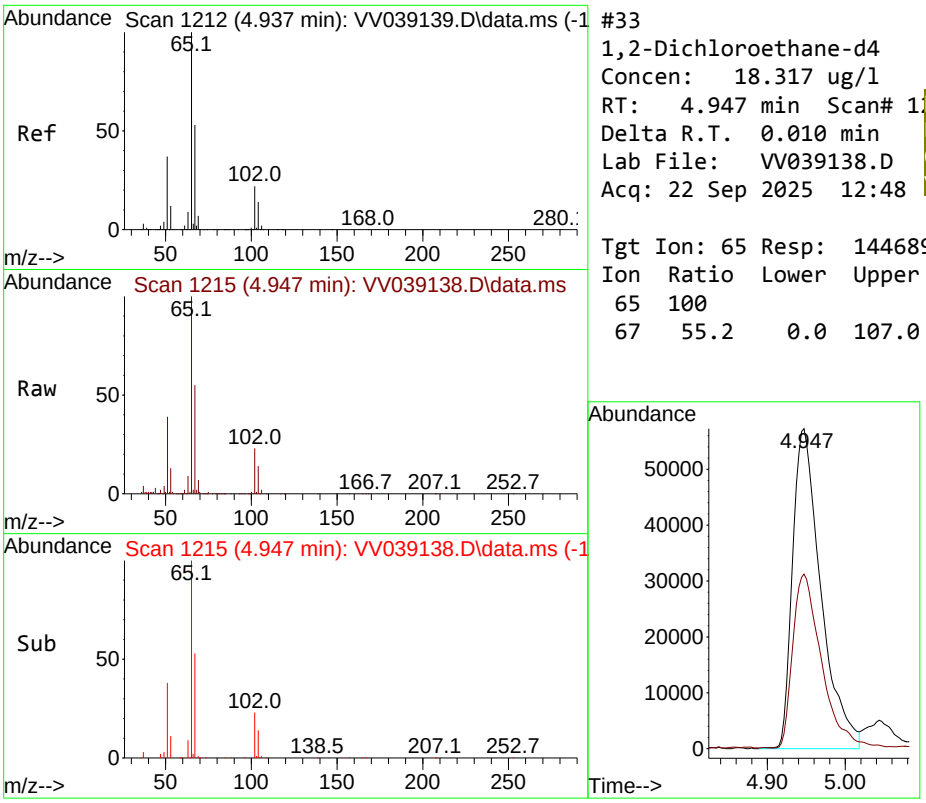




#32
1,1,1-Trichloroethane
Concen: 18.546 ug/l
RT: 4.516 min Scan# 1081
Delta R.T. 0.007 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 97 Resp: 288341

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.5 | 49.6 | 74.4 |
| 61 | 43.1 | 34.5 | 51.7 |





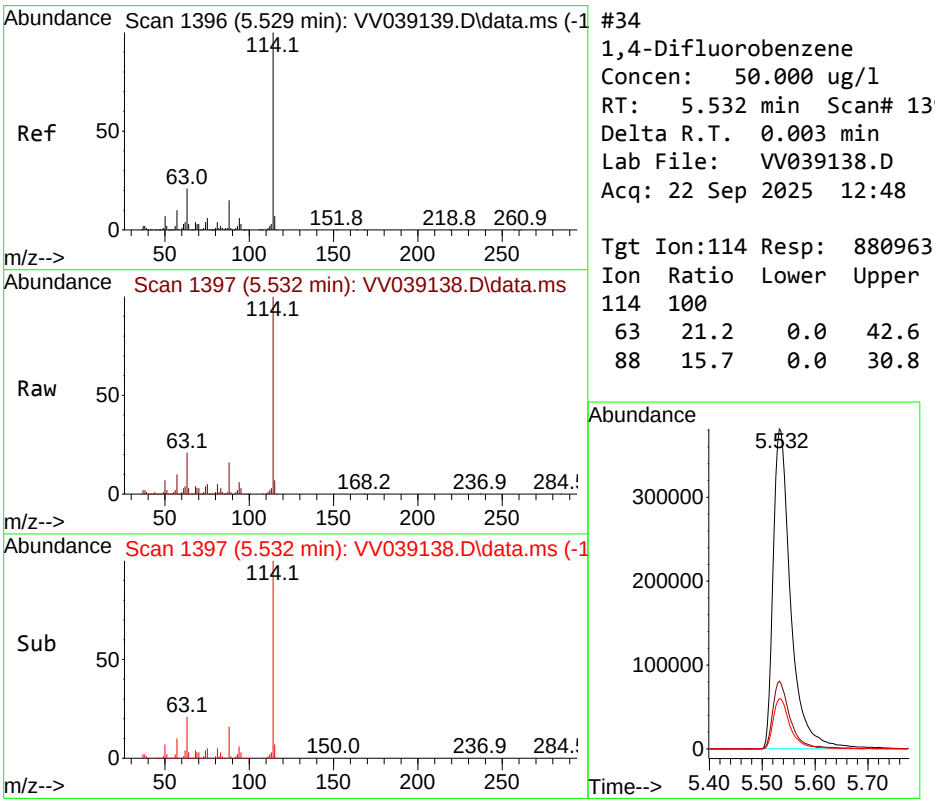

#33
1,2-Dichloroethane-d4
Concen: 18.317 ug/l
RT: 4.947 min Scan# 1
Delta R.T. 0.010 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion: 65 Resp: 144689

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 55.2 | 0.0 | 107.0 |

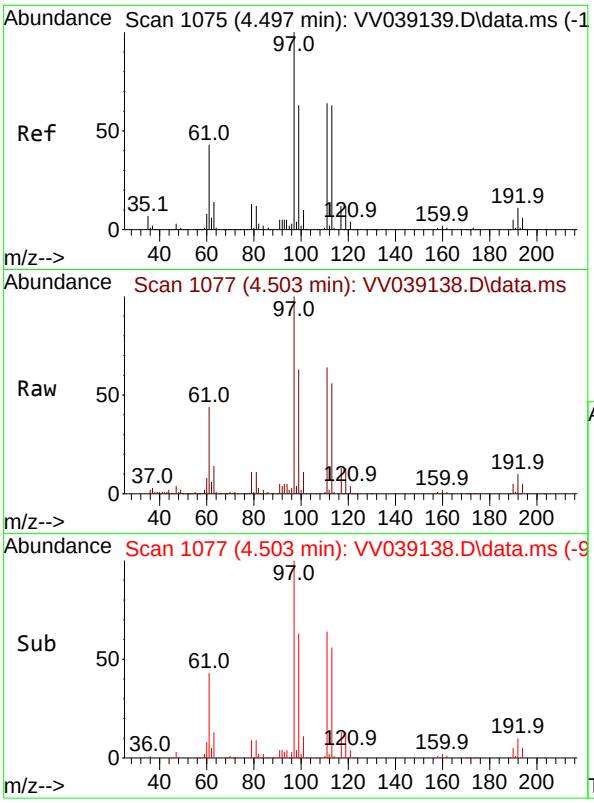



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 1397
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:114 Resp: 880963

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.2 | 0.0 | 42.6 |
| 88 | 15.7 | 0.0 | 30.8 |

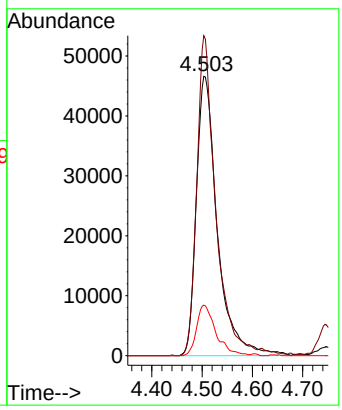


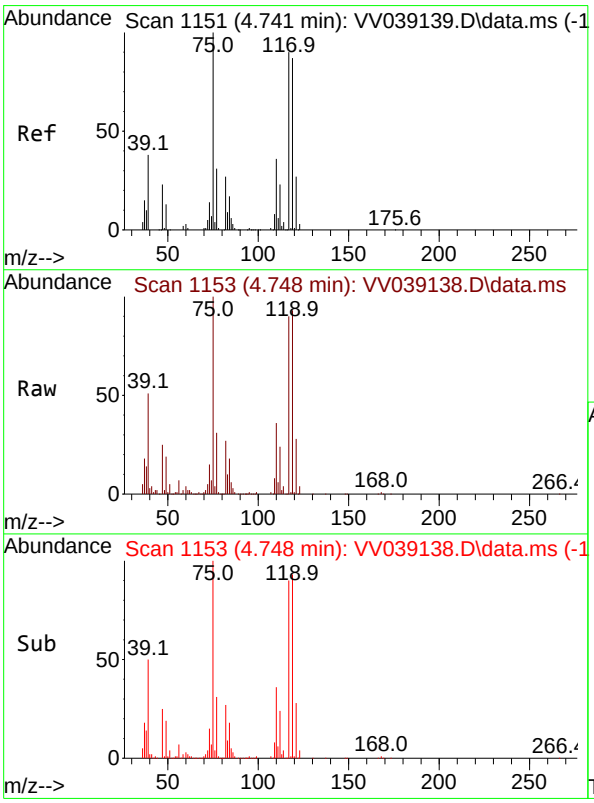

#35
Dibromofluoromethane
Concen: 19.014 ug/l
RT: 4.503 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion:113 Resp: 134662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.1 | 82.4 | 123.6 |
| 192 | 16.7 | 13.8 | 20.8 |

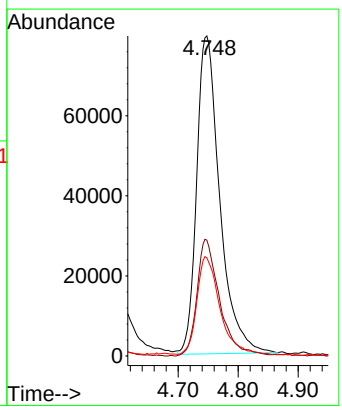


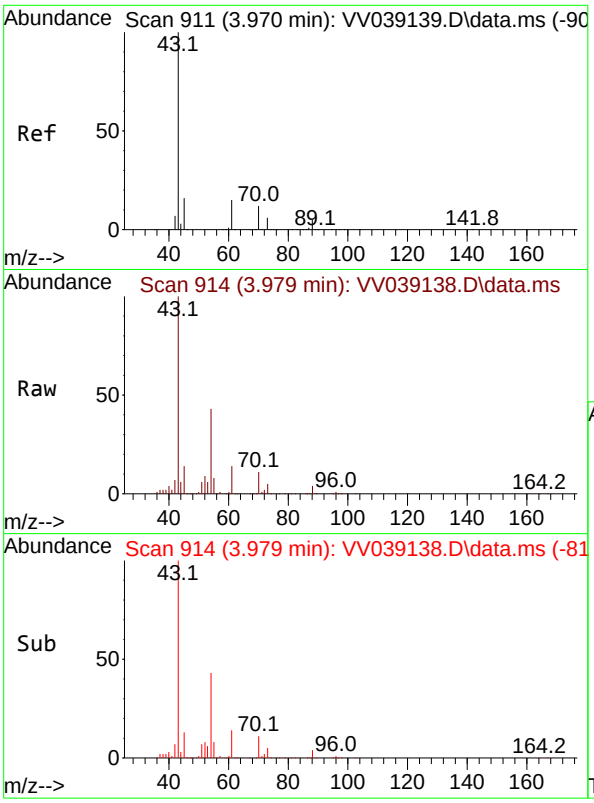




#36
1,1-Dichloropropene
Concen: 19.734 ug/l
RT: 4.748 min Scan# 1153
Delta R.T. 0.007 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 75 Resp: 212835

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 36.0 | 18.1 | 54.1 |
| 77 | 30.3 | 24.8 | 37.2 |



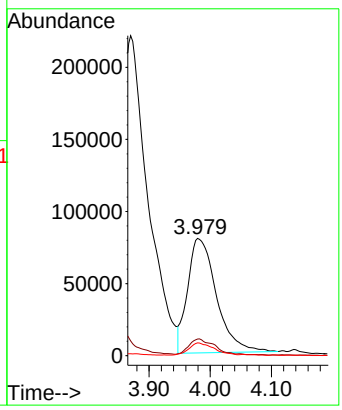


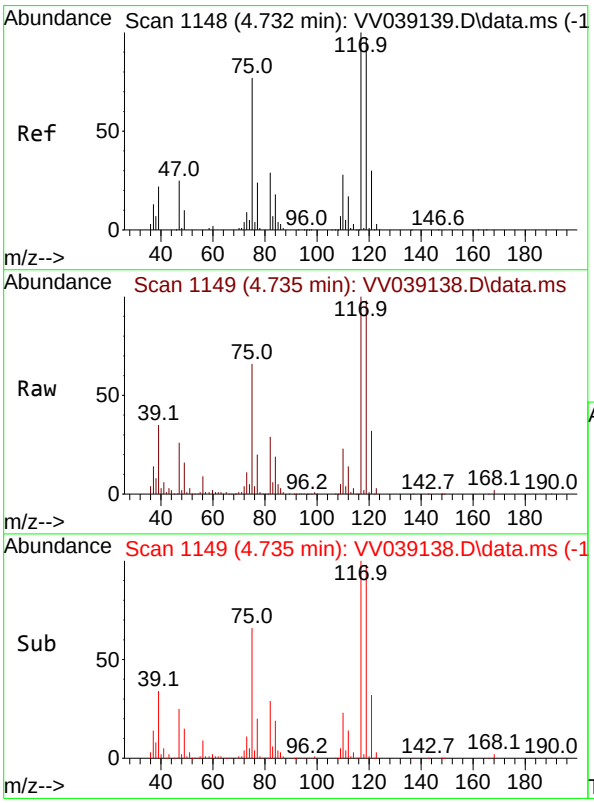

#37
Ethyl Acetate
Concen: 19.696 ug/l
RT: 3.979 min Scan# 9
Delta R.T. 0.009 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion: 43 Resp: 260591

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 11.3 | 10.3 | 15.5 |
| 70 | 9.0 | 8.0 | 12.0 |

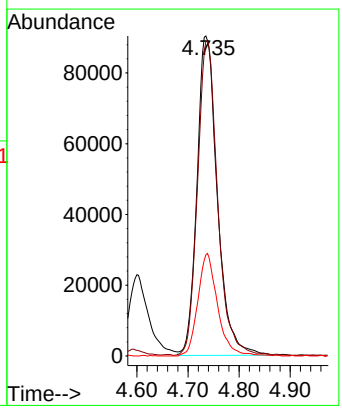


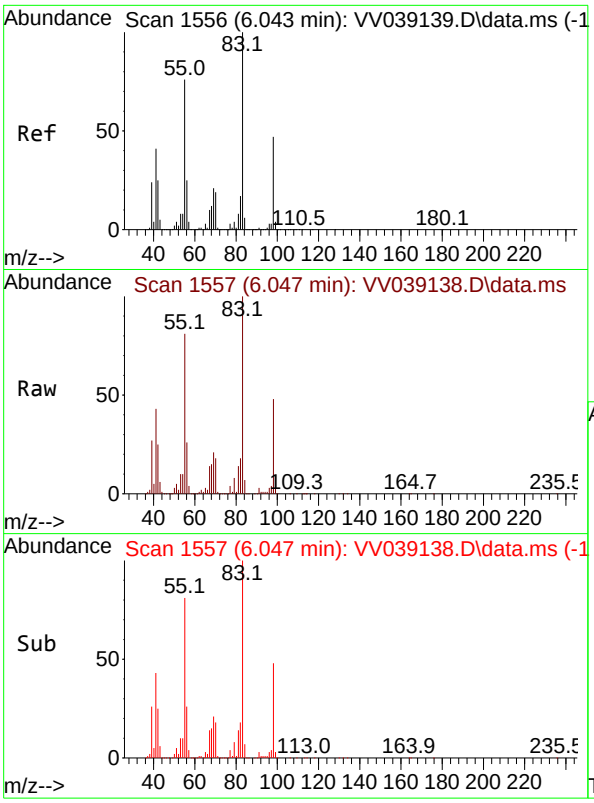




#38
Carbon Tetrachloride
Concen: 19.252 ug/l
RT: 4.735 min Scan# 1149
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:117 Resp: 250103

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 98.1 | 77.2 | 115.8 |
| 121 | 31.7 | 24.2 | 36.2 |



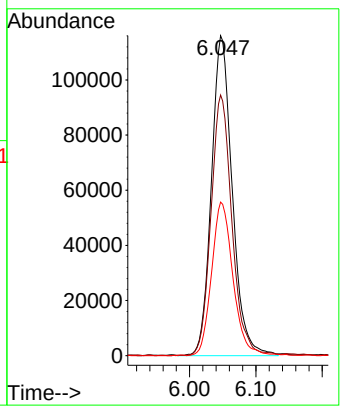


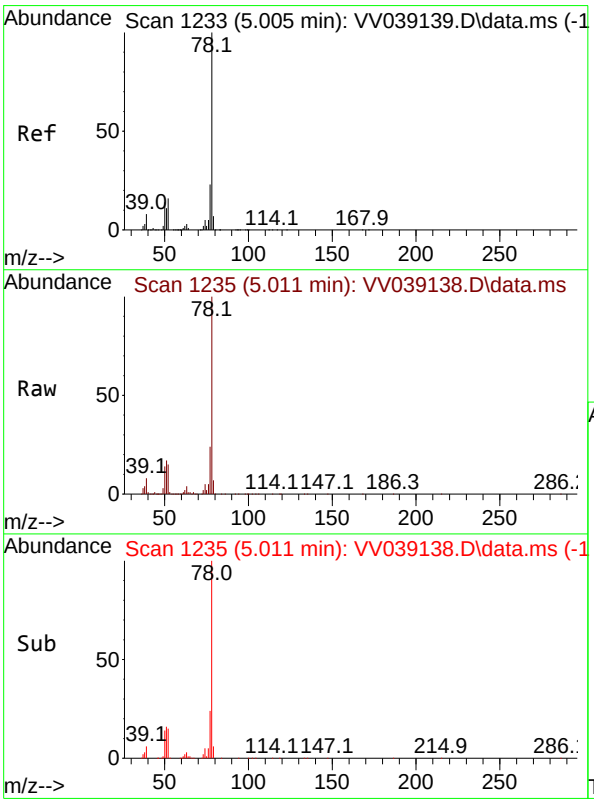

#39
Methylcyclohexane
Concen: 19.619 ug/l
RT: 6.047 min Scan# 1
Delta R.T. 0.004 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion: 83 Resp: 253693

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 81.4 | 60.5 | 90.7 |
| 98 | 48.0 | 37.8 | 56.6 |

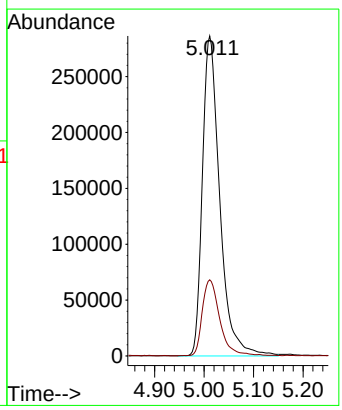


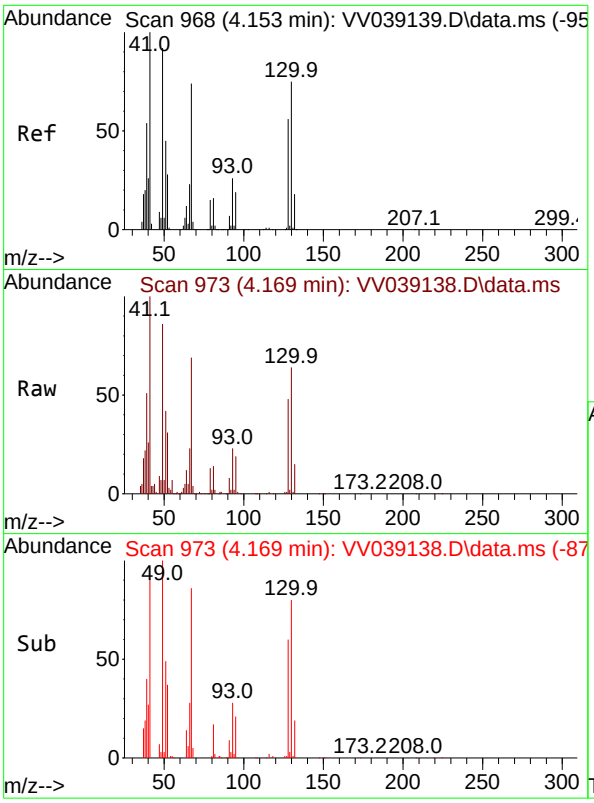




#40
Benzene
Concen: 19.994 ug/l
RT: 5.011 min Scan# 1235
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 78 Resp: 697141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.7 | 18.7 | 28.1 |



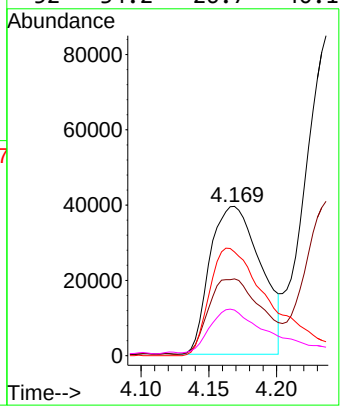


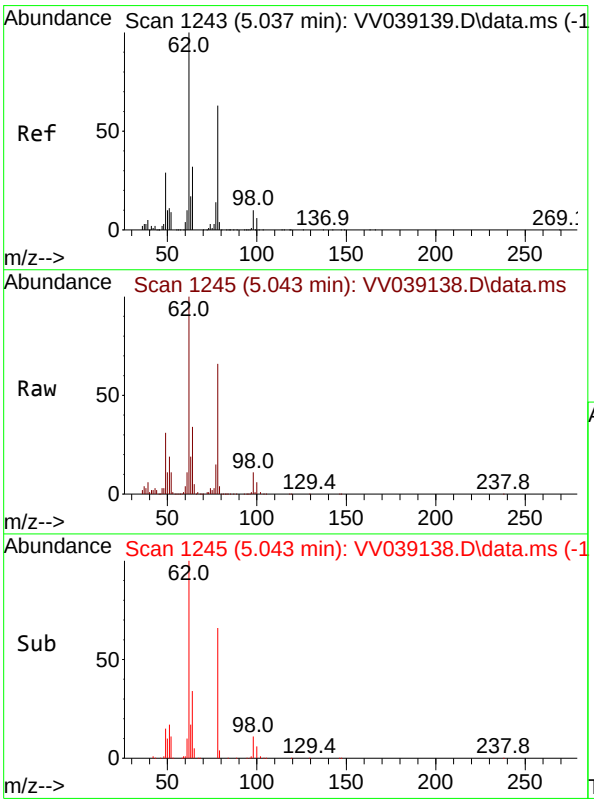

#41
Methacrylonitrile
Concen: 18.721 ug/l
RT: 4.169 min Scan# 9
Delta R.T. 0.016 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion: 41 Resp: 102755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 53.8 | 42.2 | 63.2 |
| 67 | 92.1 | 67.9 | 101.9 |
| 52 | 34.2 | 26.7 | 40.1 |

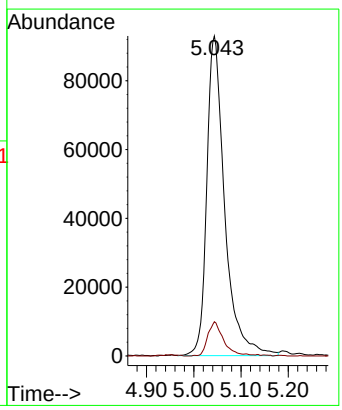


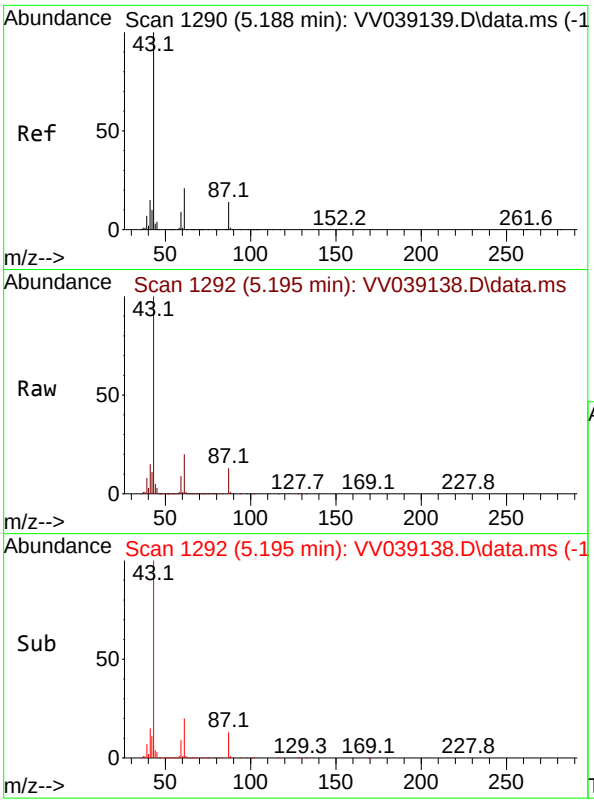




#42
1,2-Dichloroethane
Concen: 20.012 ug/l
RT: 5.043 min Scan# 1245
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 62 Resp: 244487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.3 | 0.0 | 19.2 |



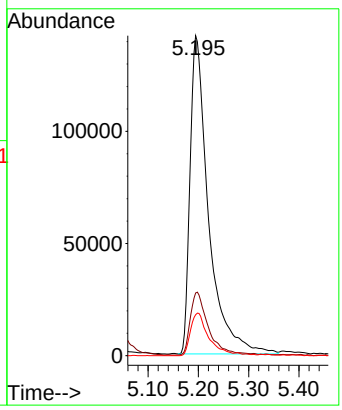


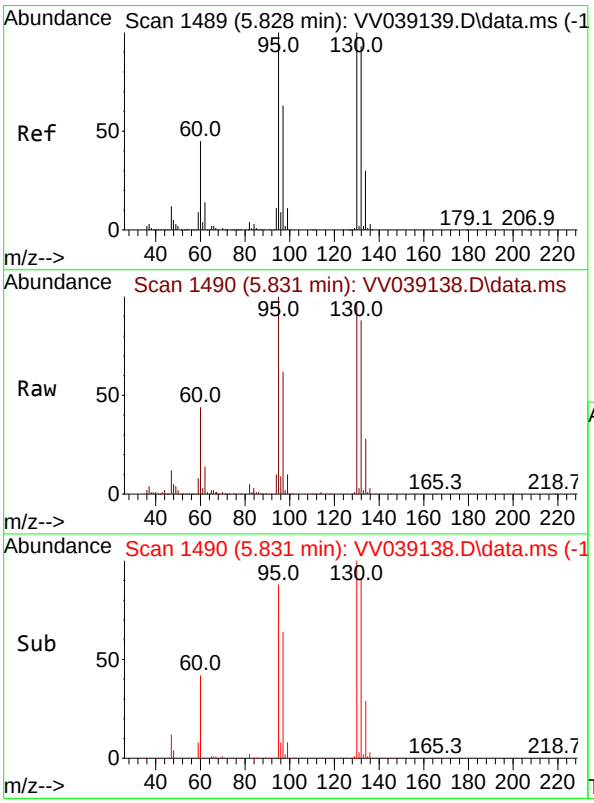

#43
Isopropyl Acetate
Concen: 19.889 ug/l
RT: 5.195 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion: 43 Resp: 362512

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 19.1 | 15.9 | 23.9 |
| 87 | 12.9 | 11.0 | 16.6 |

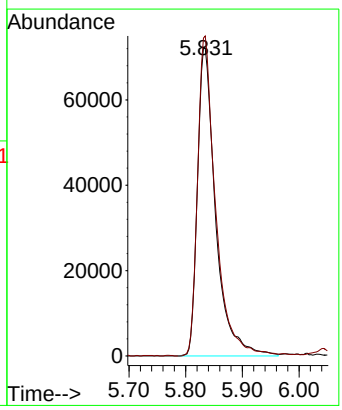


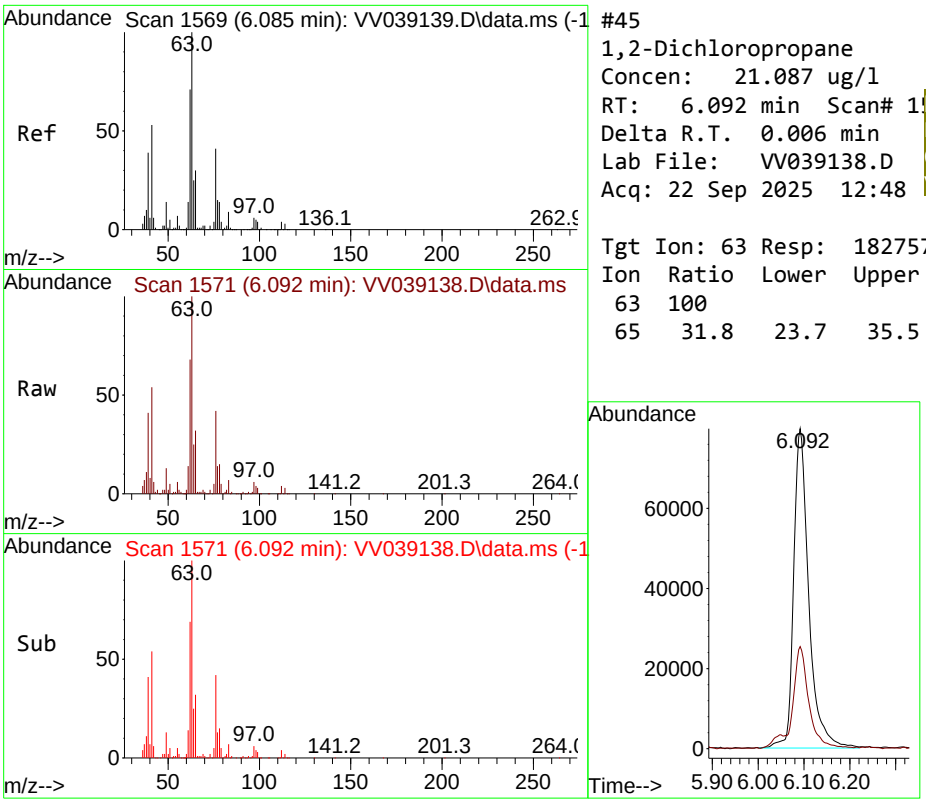




#44
Trichloroethene
Concen: 19.972 ug/l
RT: 5.831 min Scan# 1490
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:130 Resp: 160692

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 103.2 | 0.0 | 199.2 |





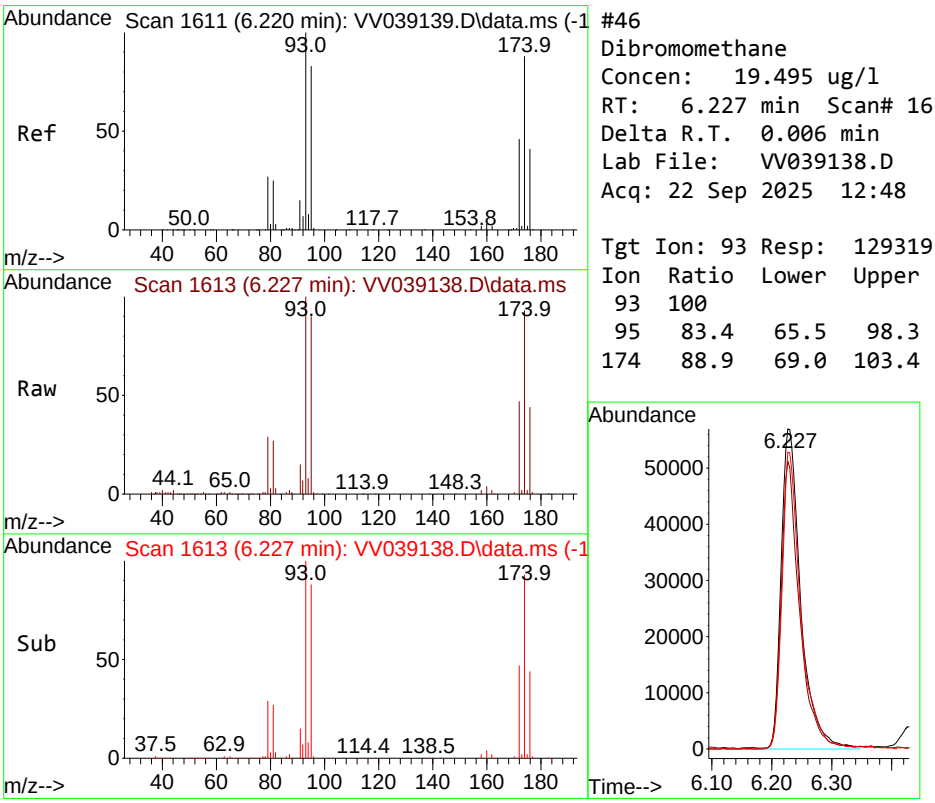

#45
1,2-Dichloropropane
Concen: 21.087 ug/l
RT: 6.092 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion: 63 Resp: 182757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.8 | 23.7 | 35.5 |

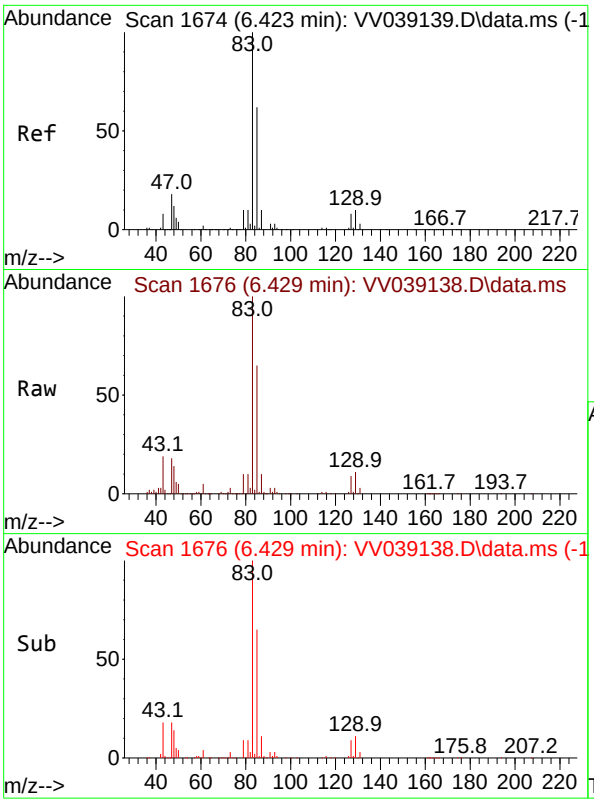



#46
Dibromomethane
Concen: 19.495 ug/l
RT: 6.227 min Scan# 1613
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 93 Resp: 129319

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 83.4 | 65.5 | 98.3 |
| 174 | 88.9 | 69.0 | 103.4 |

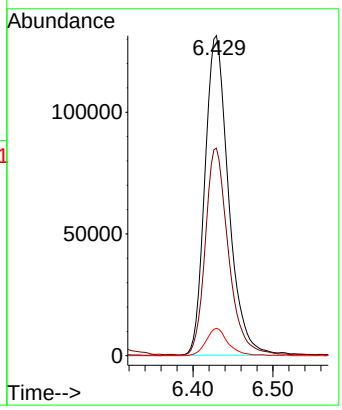


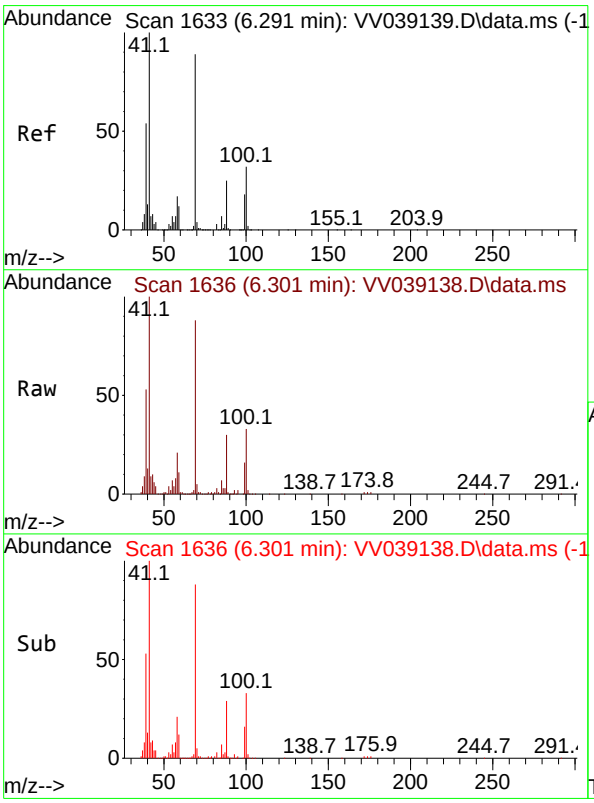

#47
Bromodichloromethane
Concen: 19.635 ug/l
RT: 6.429 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion: 83 Resp: 269262

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.7 | 49.7 | 74.5 |
| 127 | 8.6 | 6.6 | 9.8 |

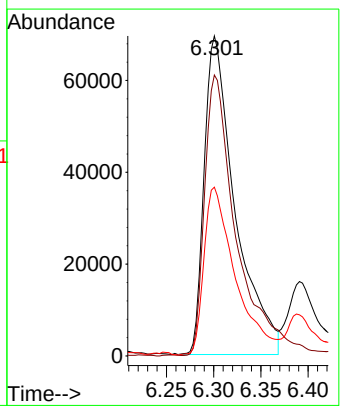


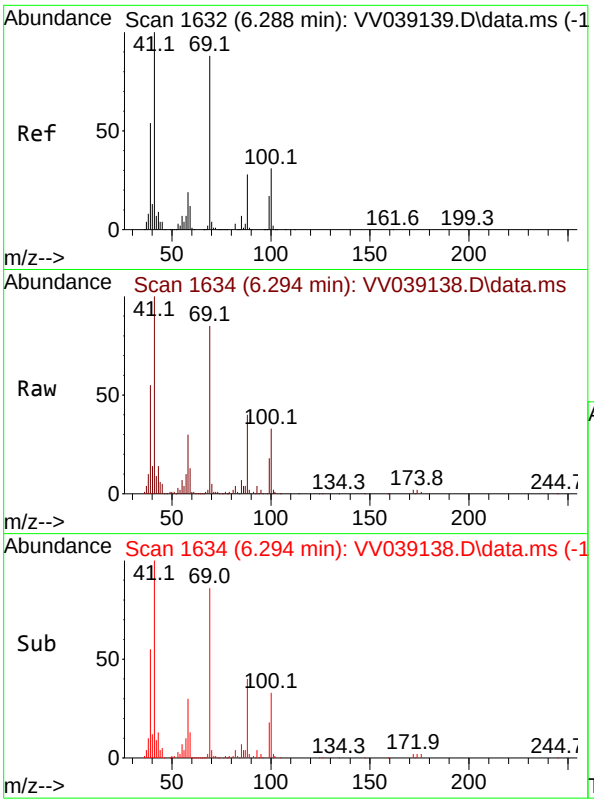




#48
Methyl methacrylate
Concen: 18.977 ug/l
RT: 6.301 min Scan# 1636
Delta R.T. 0.010 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 41 Resp: 158251

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 91.6 | 72.4 | 108.6 |
| 39 | 53.4 | 42.5 | 63.7 |



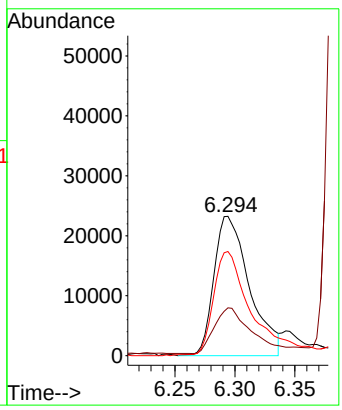


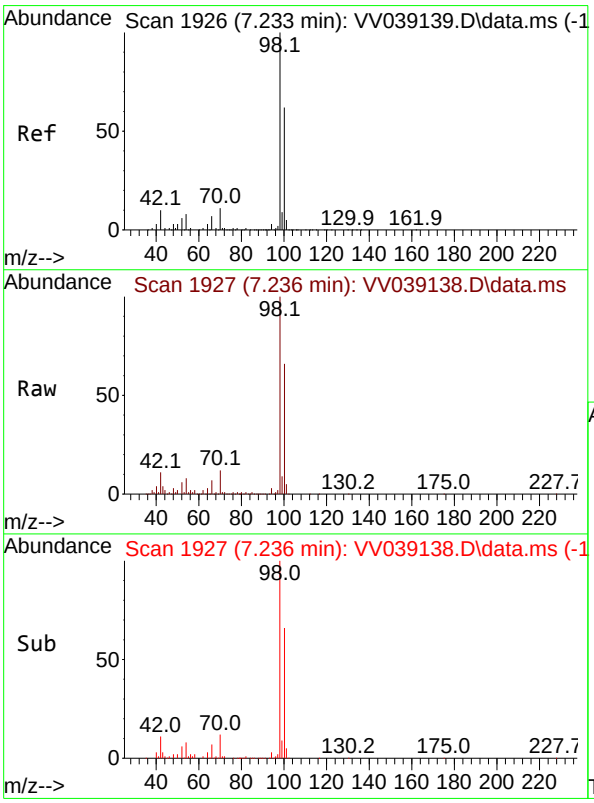

#49
1,4-Dioxane
Concen: 365.172 ug/l
RT: 6.294 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion: 88 Resp: 47860

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 36.7 | 25.1 | 37.7 |
| 58 | 80.9 | 53.6 | 80.4# |

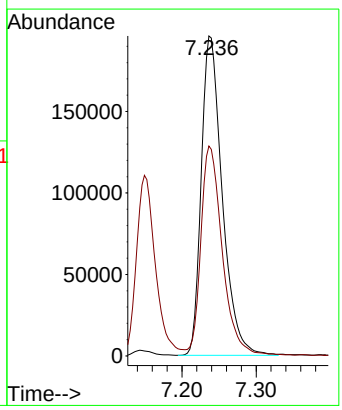


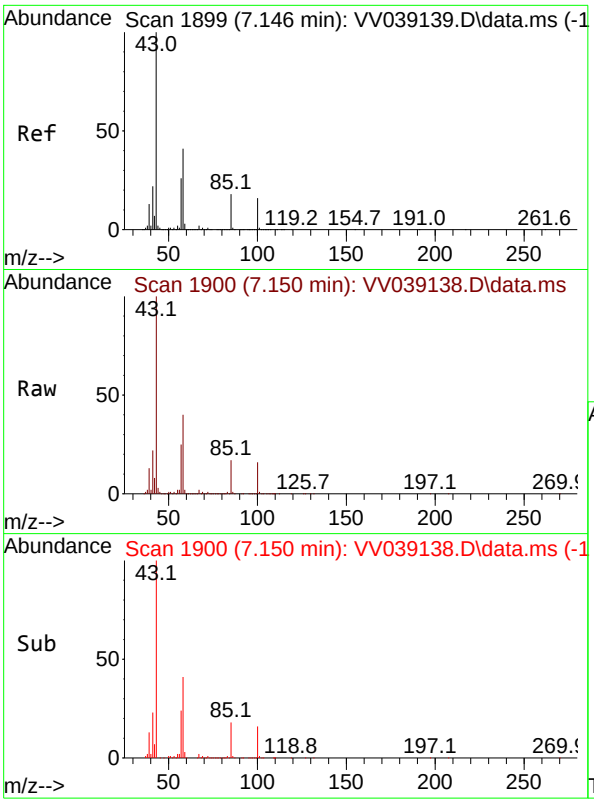




#50
Toluene-d8
Concen: 18.501 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 98 Resp: 384827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.5 | 52.2 | 78.2 |



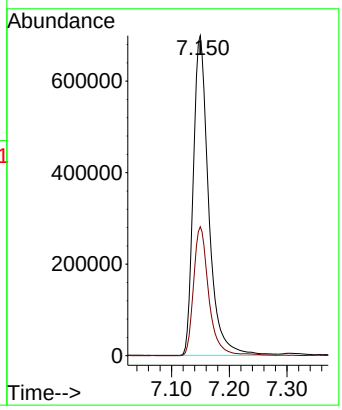


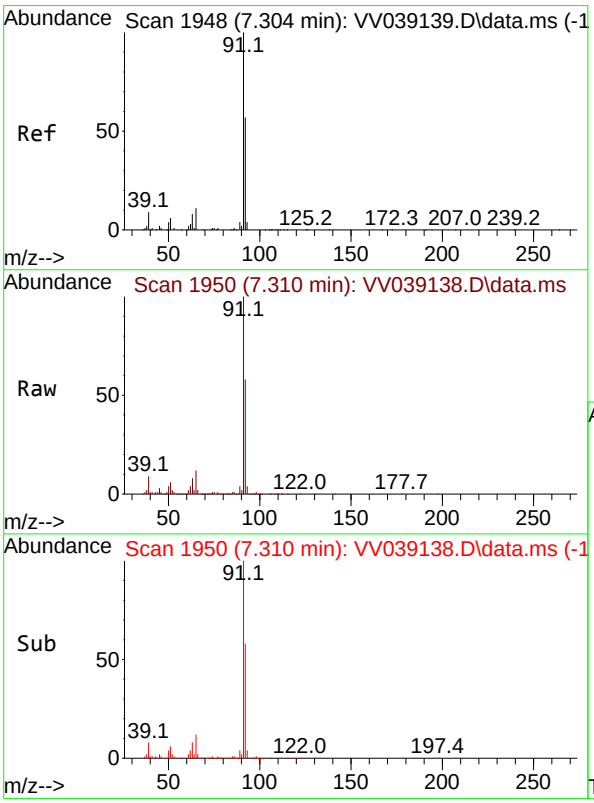

#51
4-Methyl-2-Pentanone
Concen: 111.268 ug/l
RT: 7.150 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion: 43 Resp: 1296796

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 39.2 | 32.3 | 48.5 |

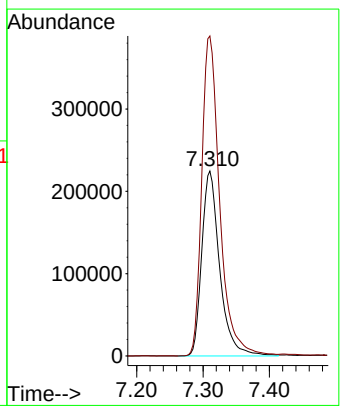


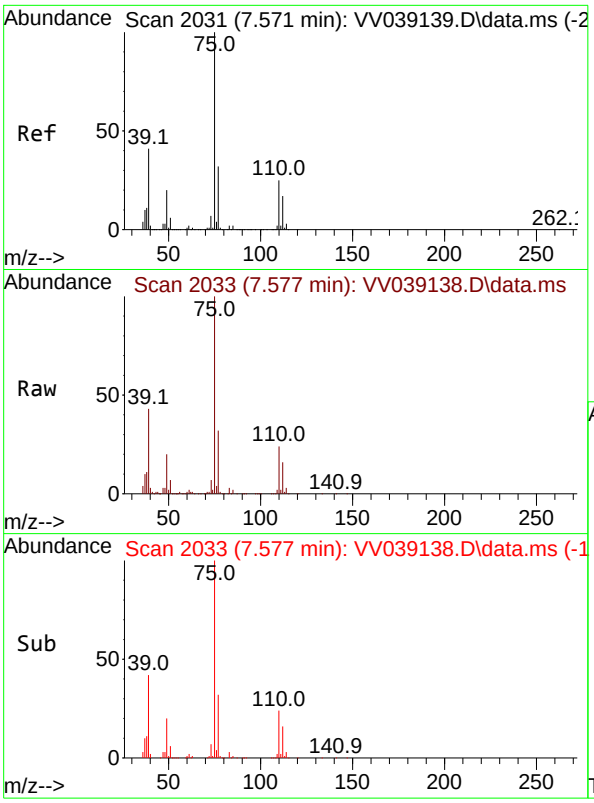




#52
Toluene
Concen: 20.892 ug/l
RT: 7.310 min Scan# 1950
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 92 Resp: 422367

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 173.4 | 139.2 | 208.8 |



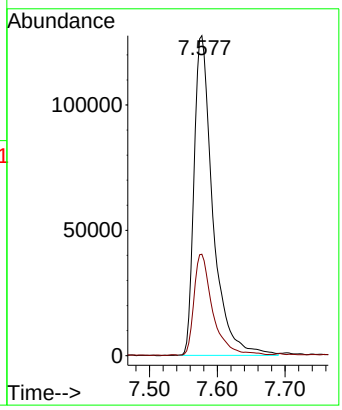


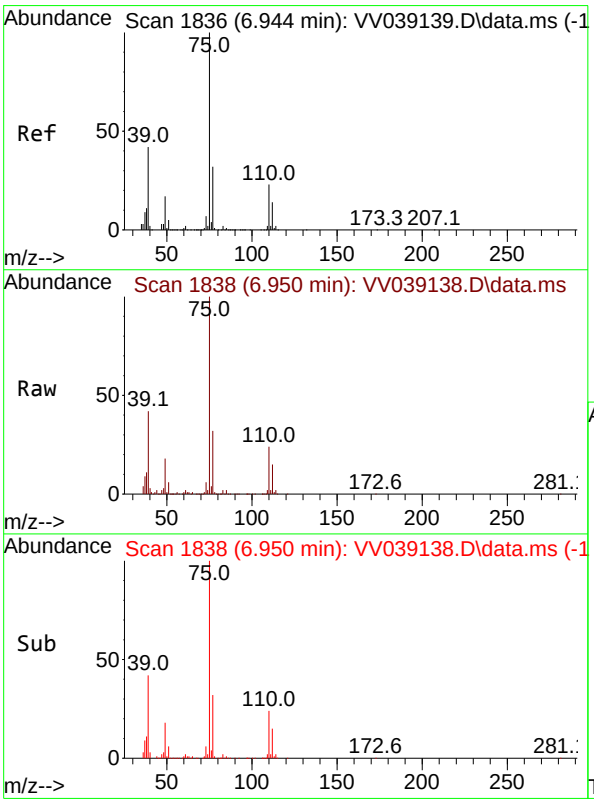

#53
t-1,3-Dichloropropene
Concen: 20.516 ug/l
RT: 7.577 min Scan# 2
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion: 75 Resp: 245181

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.4 | 25.9 | 38.9 |

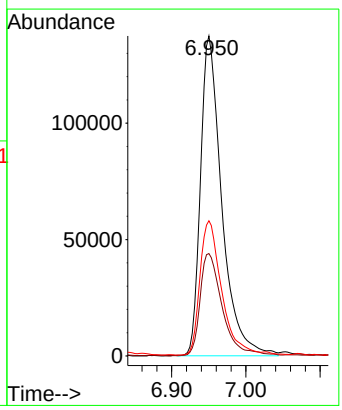


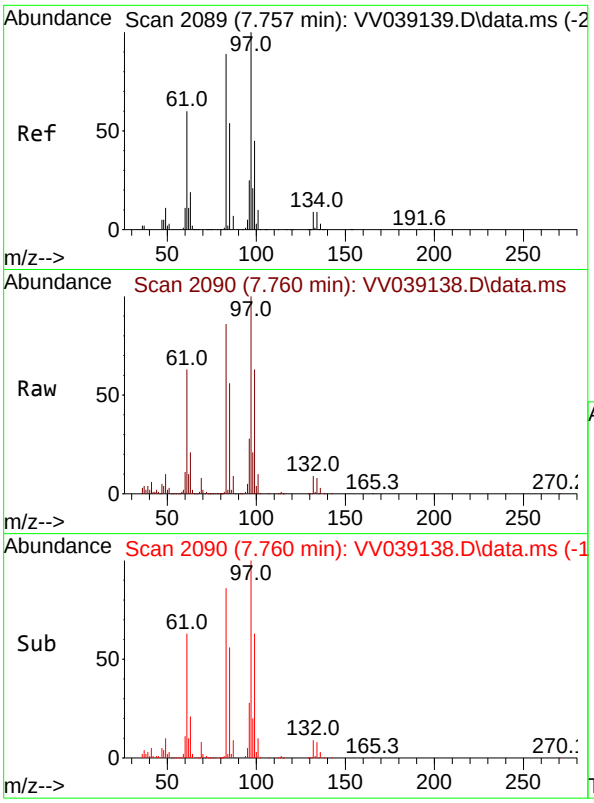




#54
cis-1,3-Dichloropropene
Concen: 20.761 ug/l
RT: 6.950 min Scan# 1838
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 75 Resp: 273906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.9 | 25.5 | 38.3 |
| 39 | 42.0 | 33.8 | 50.6 |



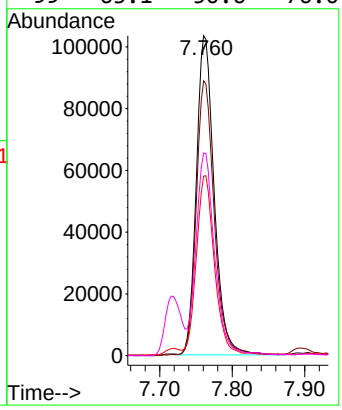


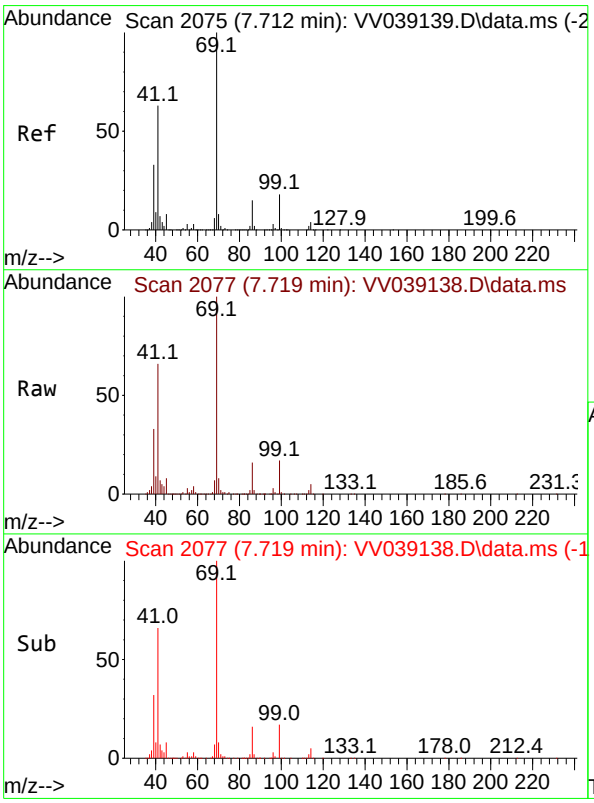

#55
1,1,2-Trichloroethane
Concen: 19.505 ug/l
RT: 7.760 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion: 97 Resp: 176812

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 85.9 | 71.1 | 106.7 |
| 85 | 55.6 | 44.6 | 67.0 |
| 99 | 63.1 | 50.6 | 76.0 |

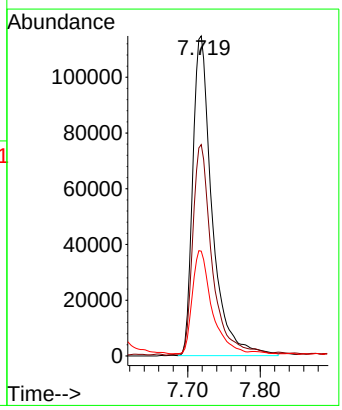


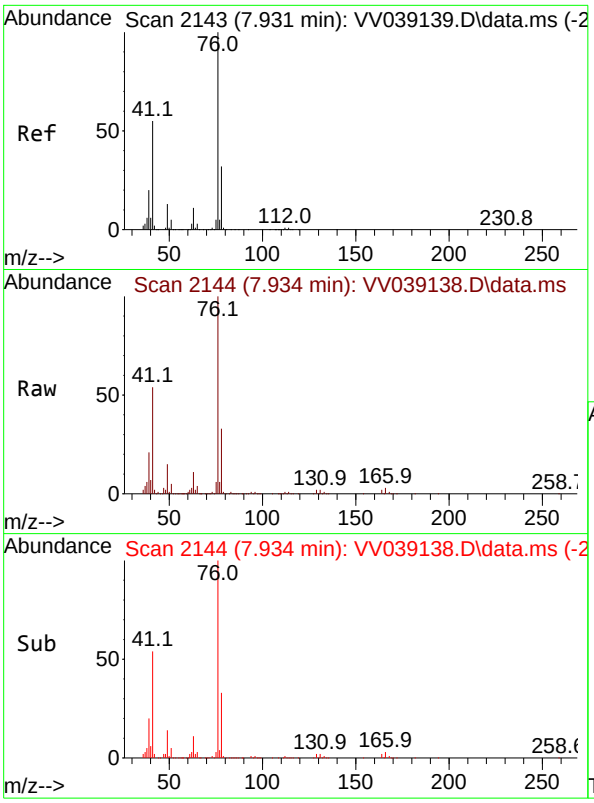




#56
Ethyl methacrylate
Concen: 19.723 ug/l
RT: 7.719 min Scan# 2077
Delta R.T. 0.007 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 69 Resp: 212320

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 66.2 | 50.7 | 76.1 |
| 39 | 32.3 | 26.0 | 39.0 |



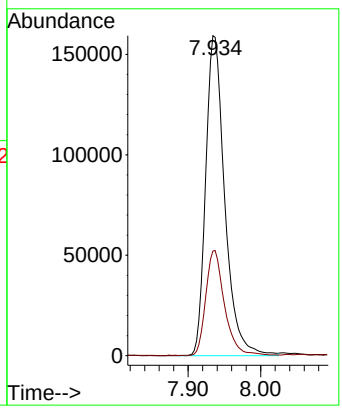


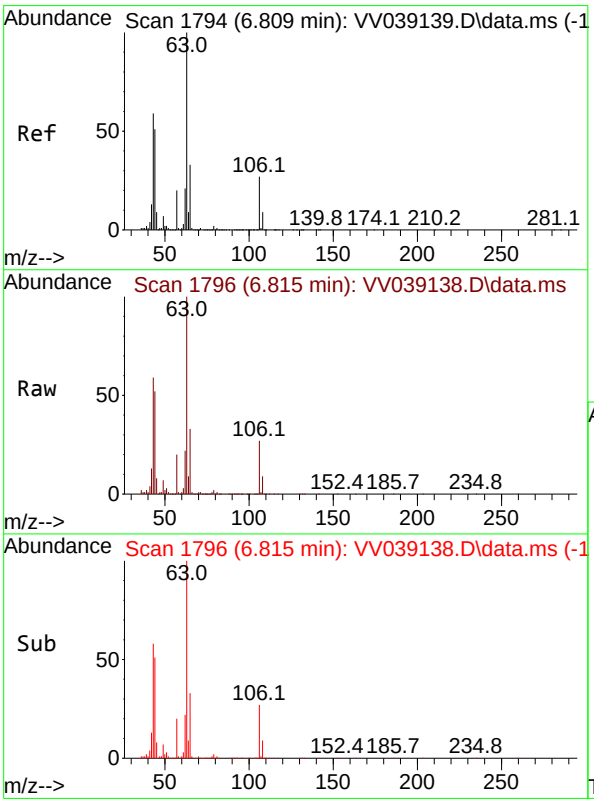

#57
1,3-Dichloropropane
Concen: 20.363 ug/l
RT: 7.934 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion: 76 Resp: 291304

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.4 | 26.1 | 39.1 |

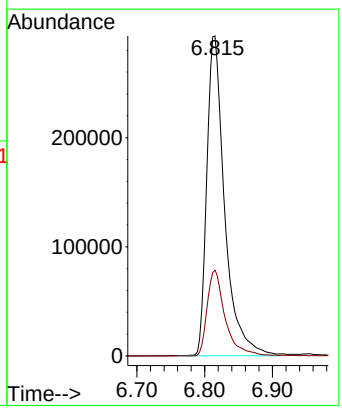


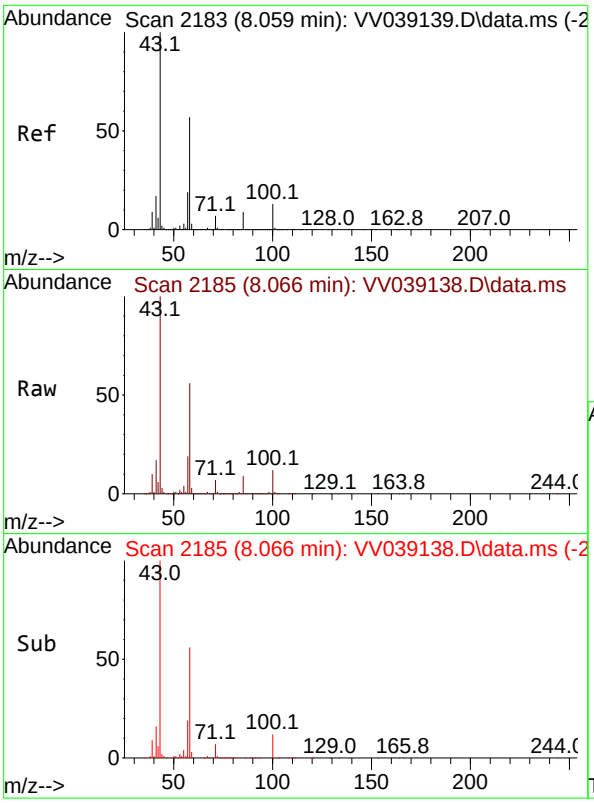




#58
2-Chloroethyl Vinyl ether
Concen: 94.274 ug/l
RT: 6.815 min Scan# 1796
Delta R.T. 0.006 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 63 Resp: 536254

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 27.3 | 22.1 | 33.1 |



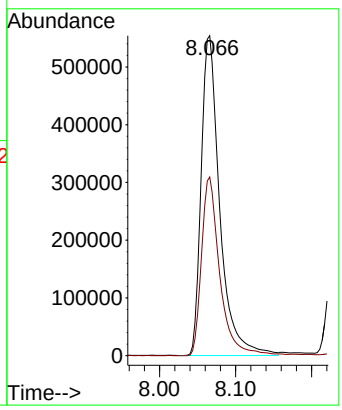


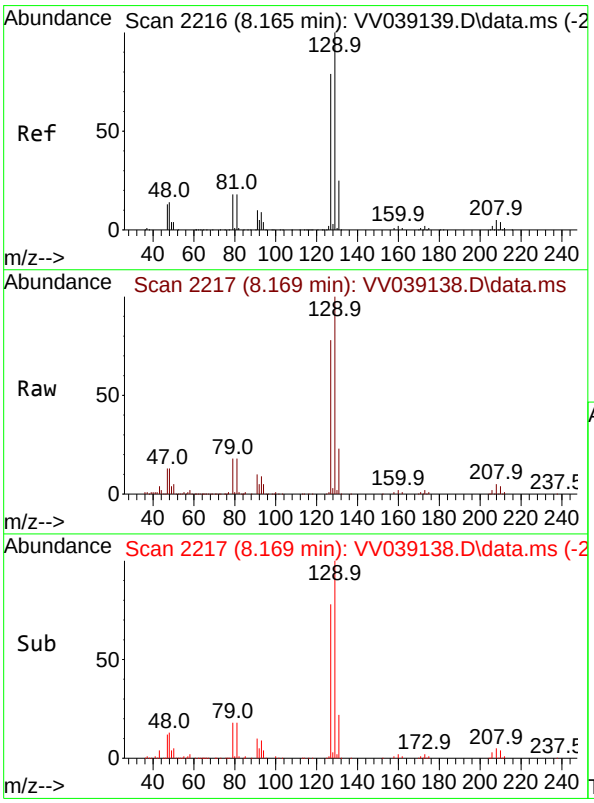

#59
2-Hexanone
Concen: 101.225 ug/l
RT: 8.066 min Scan# 2
Delta R.T. 0.007 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion: 43 Resp: 940265

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 55.0 | 28.3 | 85.0 |

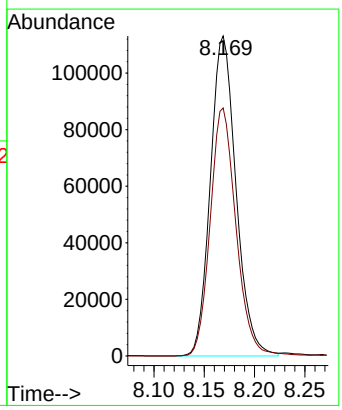


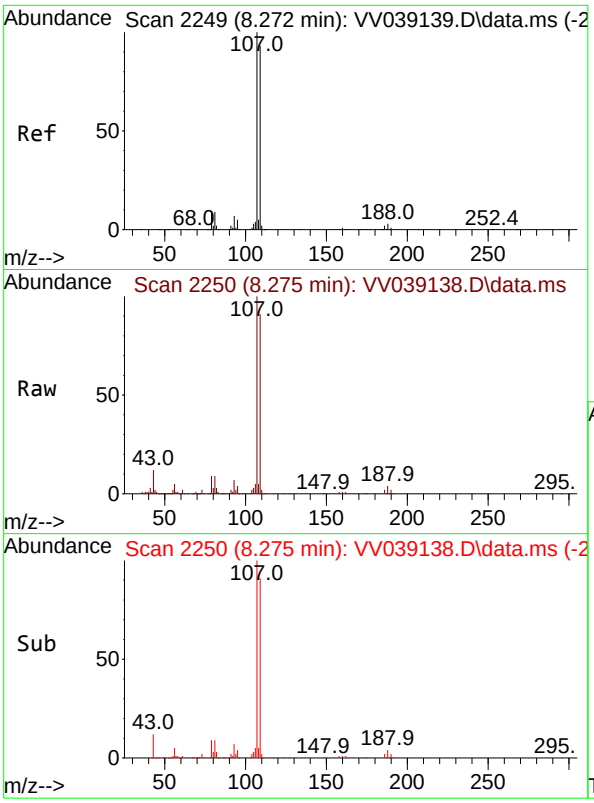




#60
Dibromochloromethane
Concen: 19.440 ug/l
RT: 8.169 min Scan# 2217
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:129 Resp: 200793

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.9 | 39.3 | 117.9 |



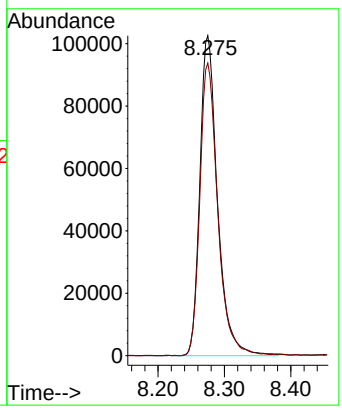


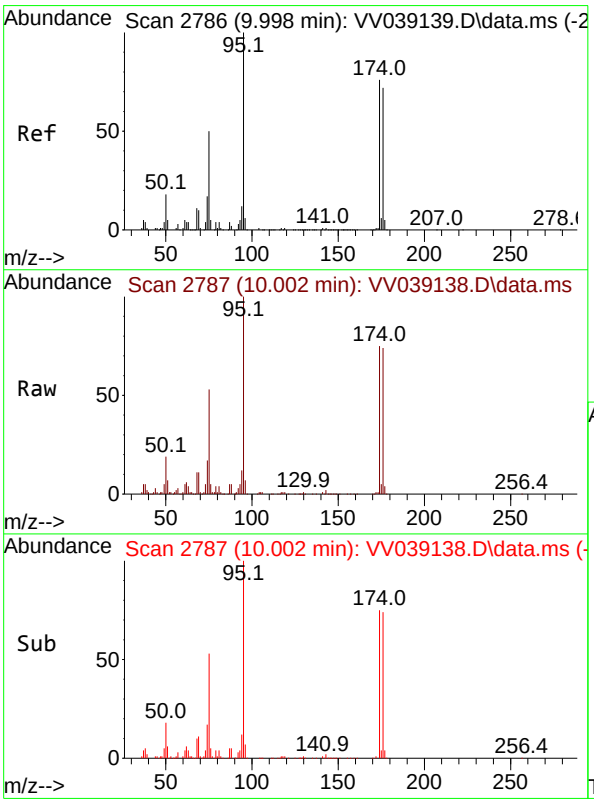

#61
1,2-Dibromoethane
Concen: 20.447 ug/l
RT: 8.275 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion:107 Resp: 189555

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 92.8 | 74.6 | 112.0 |

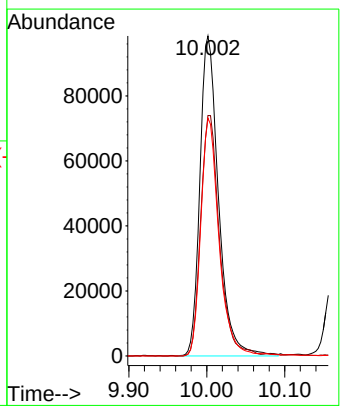


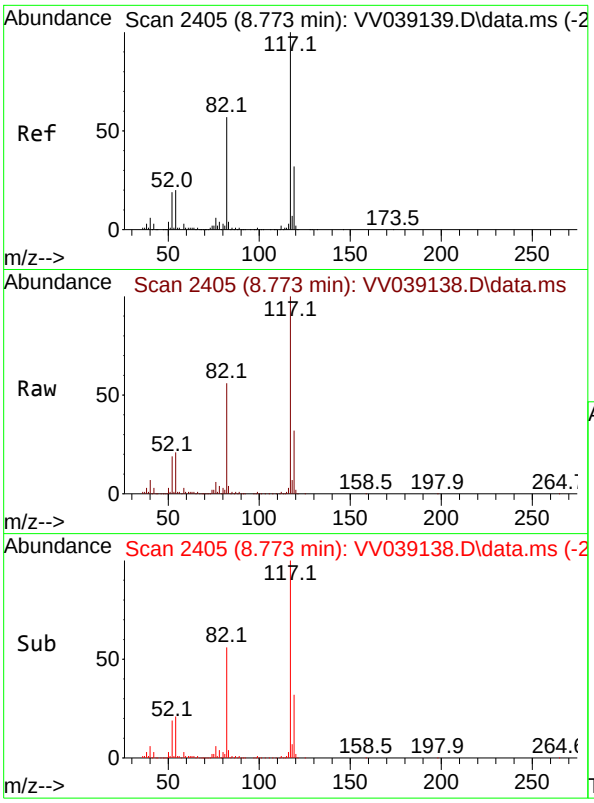




#62
4-Bromofluorobenzene
Concen: 19.105 ug/l
RT: 10.002 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 95 Resp: 163597

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 75.6 | 0.0 | 150.4 |
| 176 | 72.3 | 0.0 | 144.2 |



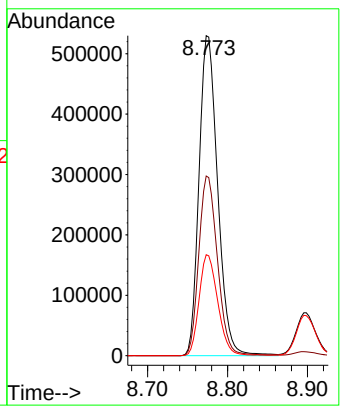


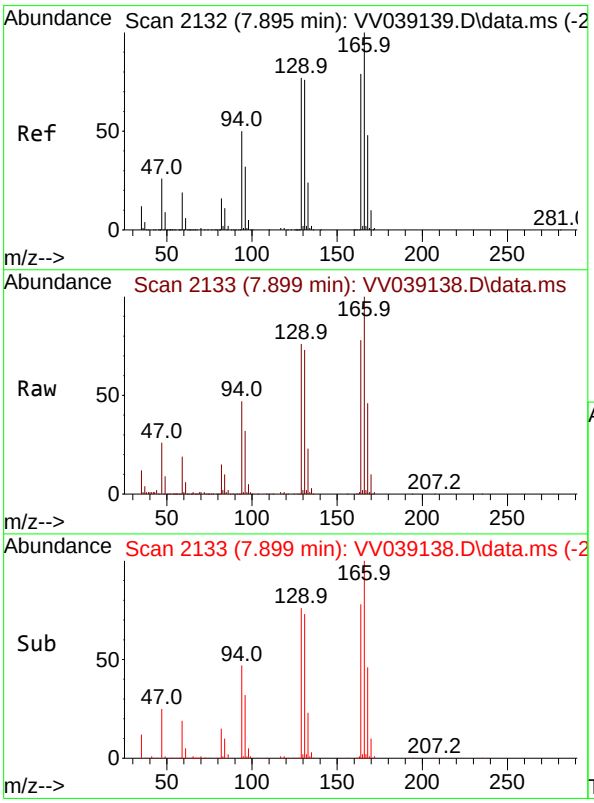

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.773 min Scan# 24
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion:117 Resp: 860340

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 56.1 | 45.4 | 68.2 |
| 119 | 31.5 | 25.6 | 38.4 |

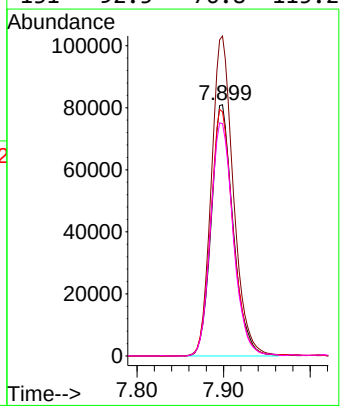


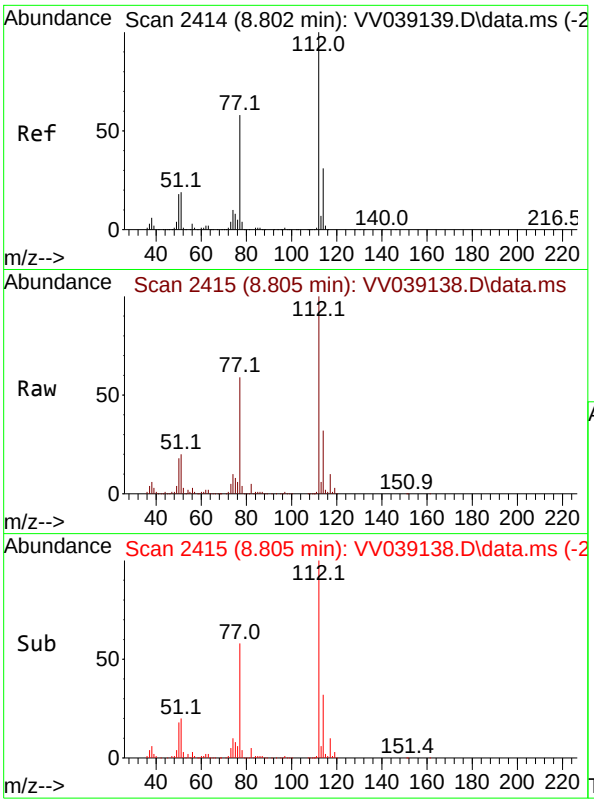




#64
Tetrachloroethene
Concen: 19.688 ug/l
RT: 7.899 min Scan# 2133
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:164 Resp: 141876

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 127.4 | 101.6 | 152.4 |
| 129 | 97.2 | 78.5 | 117.7 |
| 131 | 92.5 | 76.8 | 115.2 |



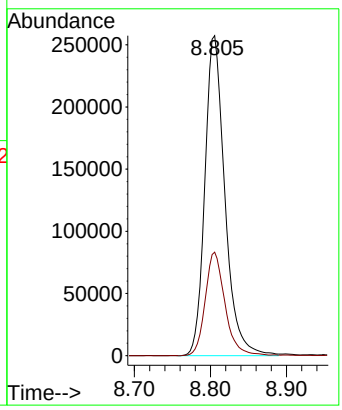


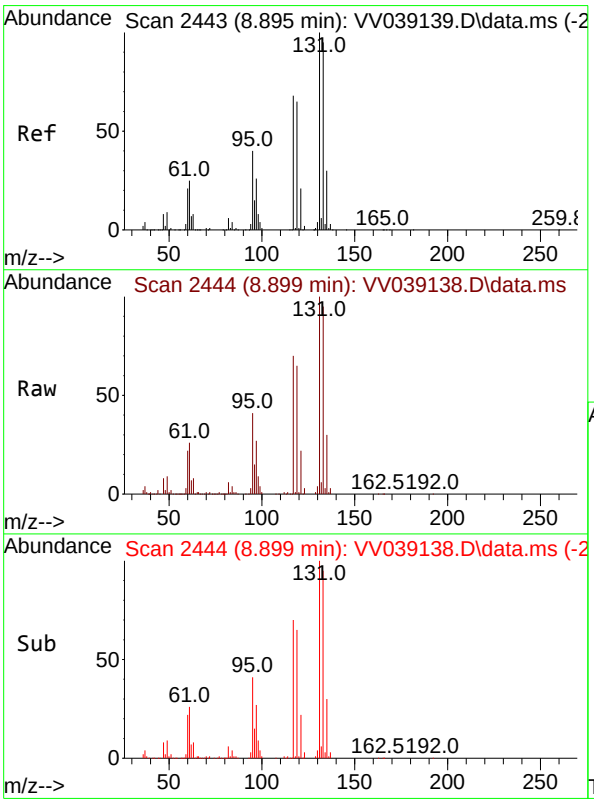

#65
Chlorobenzene
Concen: 19.648 ug/l
RT: 8.805 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion:112 Resp: 470841

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.4 | 24.6 | 37.0 |

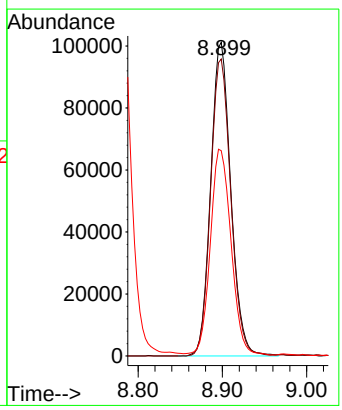


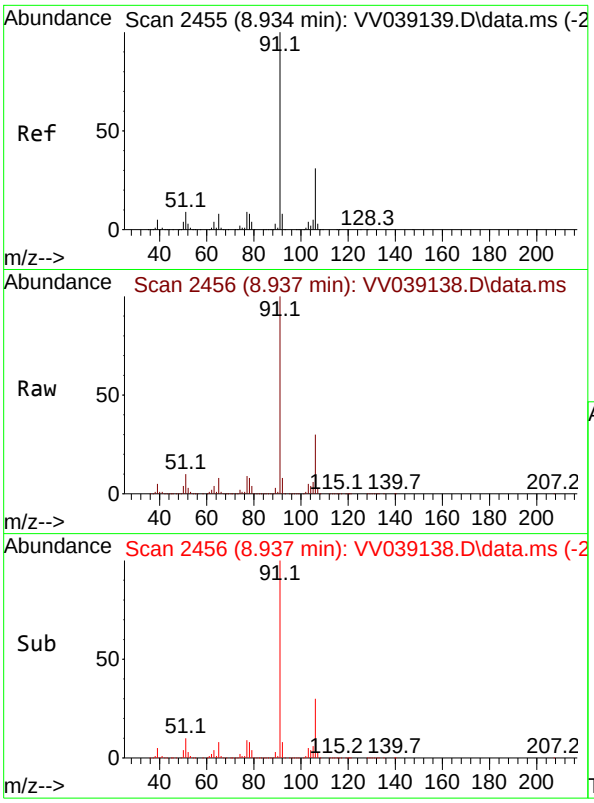




#66
1,1,1,2-Tetrachloroethane
Concen: 19.395 ug/l
RT: 8.899 min Scan# 2444
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:131 Resp: 167936

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.3 | 47.3 | 141.8 |
| 119 | 67.8 | 33.3 | 99.8 |



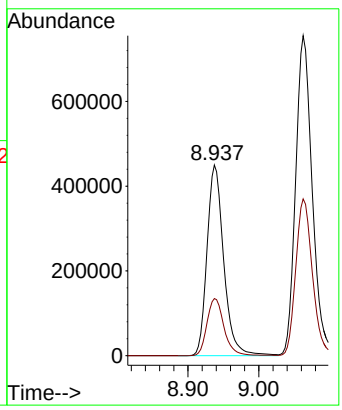


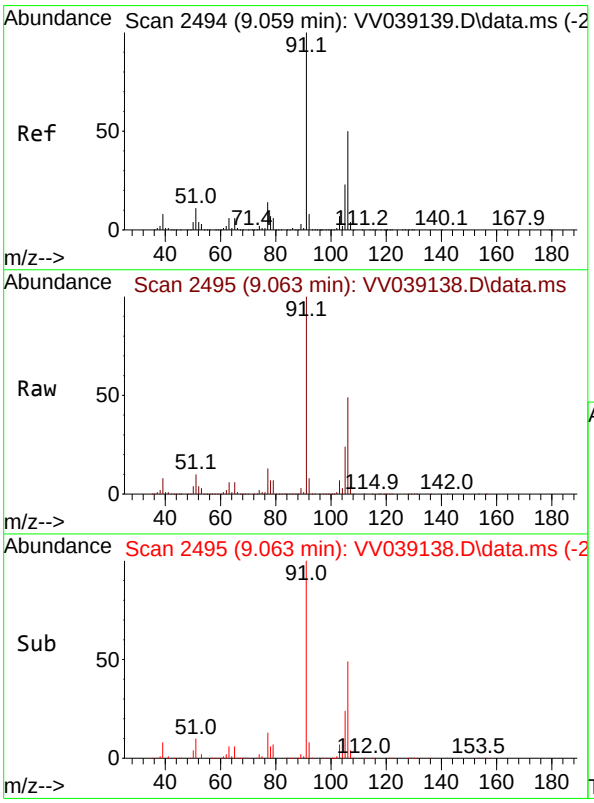

#67
Ethyl Benzene
Concen: 20.328 ug/l
RT: 8.937 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion: 91 Resp: 737391

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.0 | 24.6 | 37.0 |

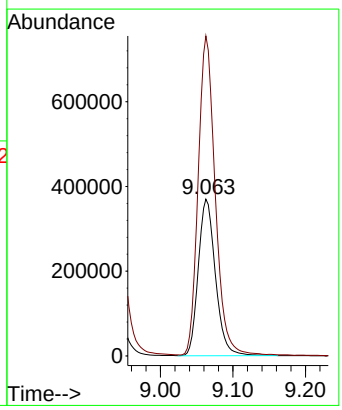


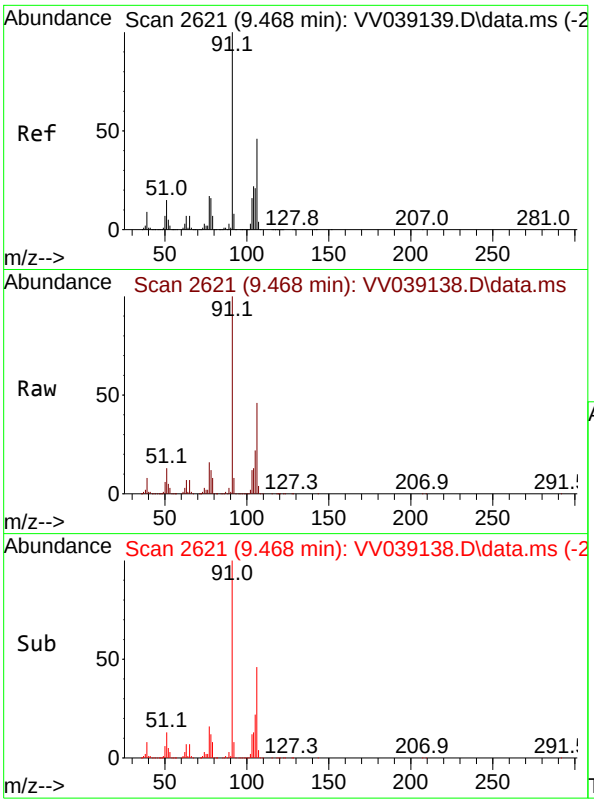




#68
m/p-Xylenes
Concen: 43.381 ug/l
RT: 9.063 min Scan# 2495
Delta R.T. 0.004 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:106 Resp: 607362

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 201.7 | 162.5 | 243.7 |



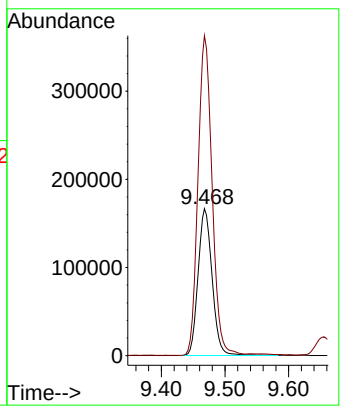


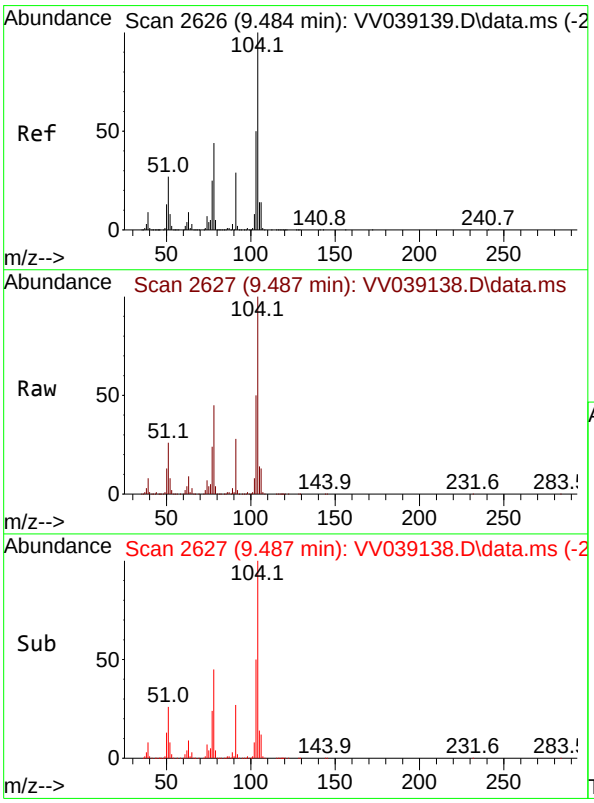

#69
o-Xylene
Concen: 20.587 ug/l
RT: 9.468 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion:106 Resp: 255212

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 218.4 | 109.1 | 327.3 |

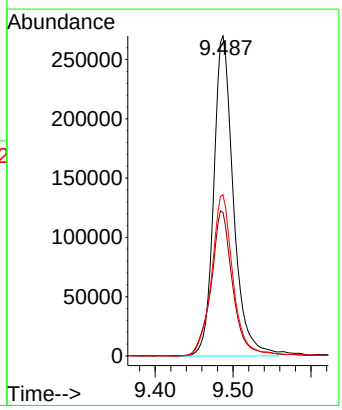


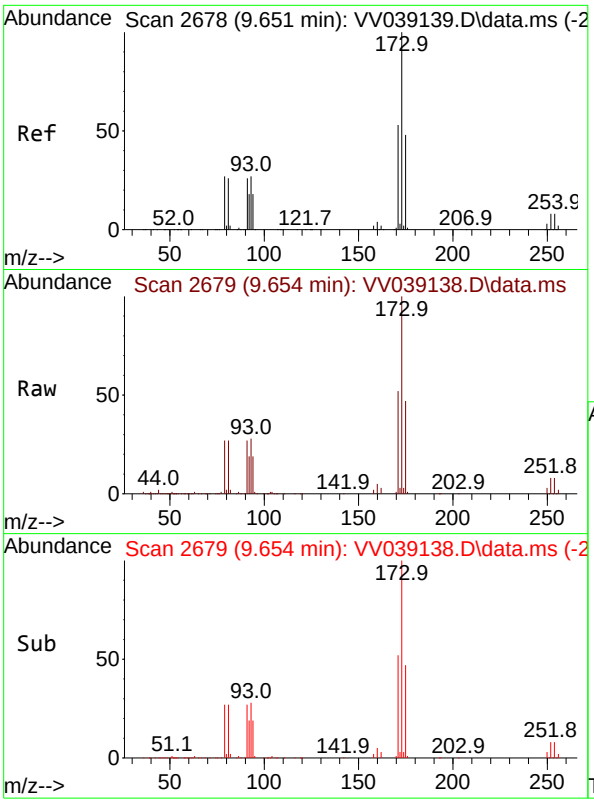




#70
Styrene
Concen: 19.022 ug/l
RT: 9.487 min Scan# 2627
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:104 Resp: 475382

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 50.0 | 39.8 | 59.6 |
| 103 | 55.1 | 43.4 | 65.2 |



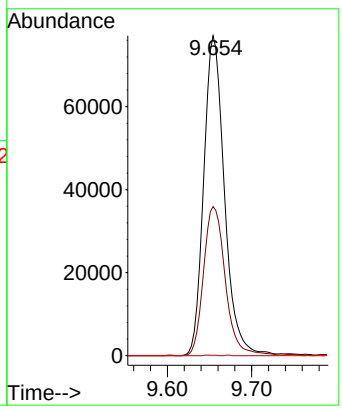


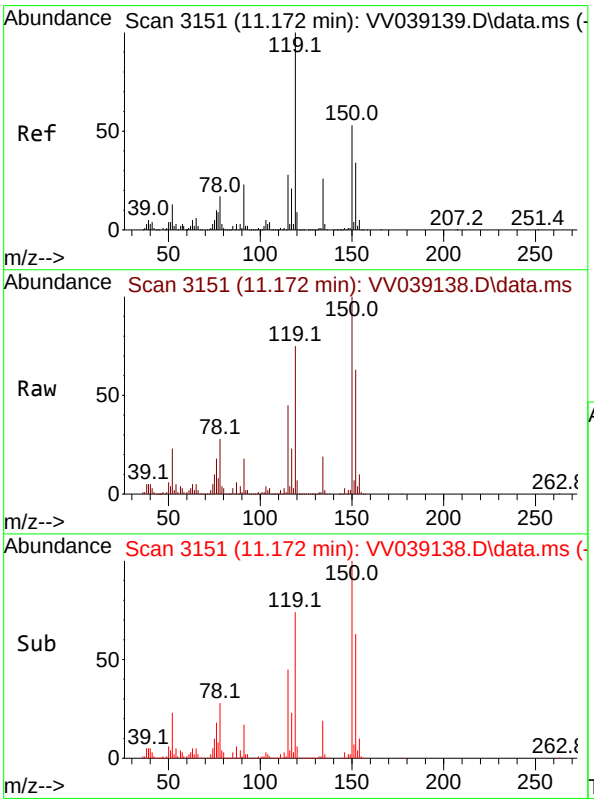

#71
Bromoform
Concen: 19.552 ug/l
RT: 9.654 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion:173 Resp: 132242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.9 | 23.9 | 71.7 |
| 254 | 0.1 | 0.1 | 0.1 |

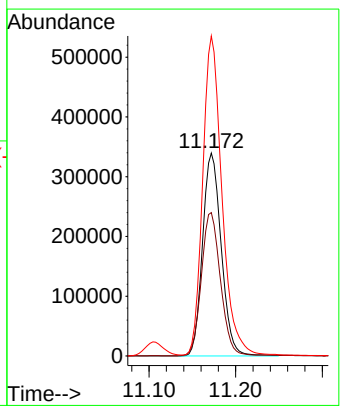


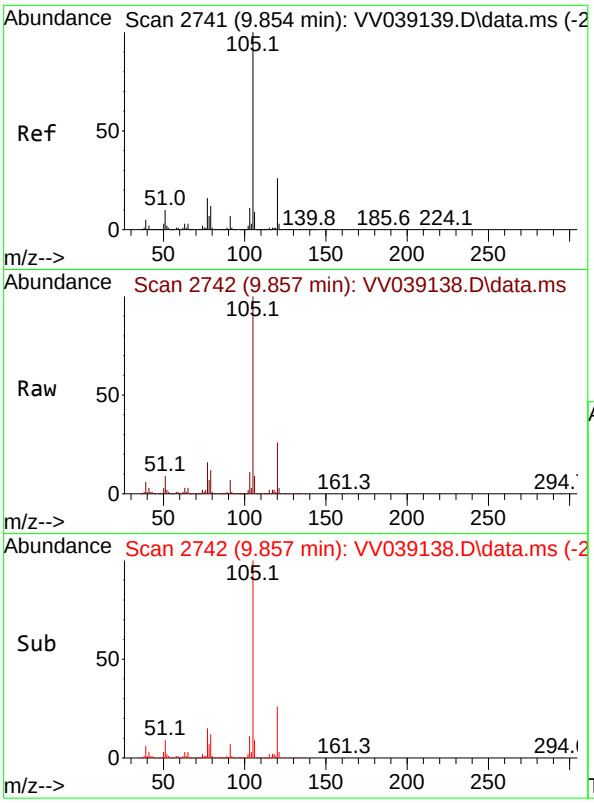




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:152 Resp: 509460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 72.2 | 44.8 | 134.4 |
| 150 | 163.4 | 0.0 | 353.8 |



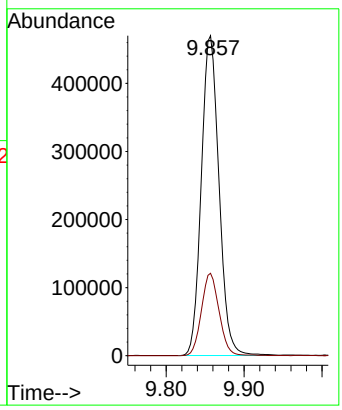


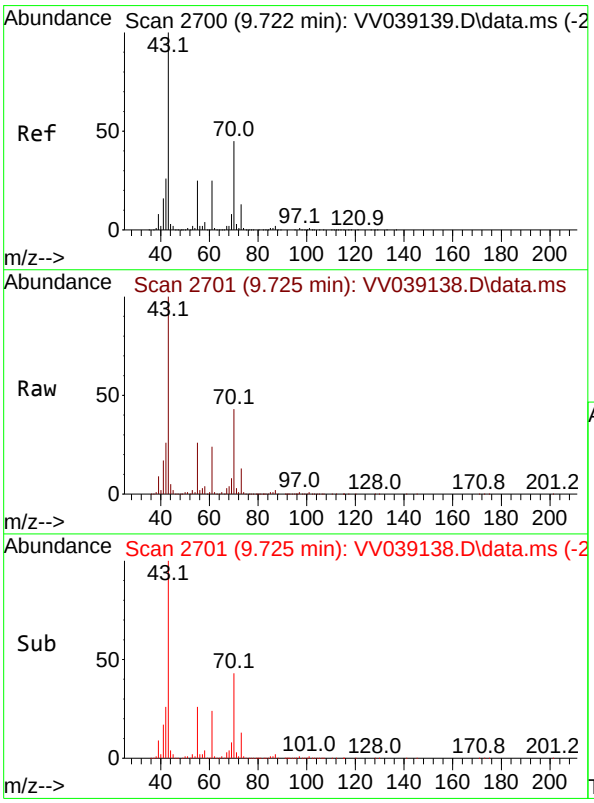

#73
Isopropylbenzene
Concen: 20.062 ug/l
RT: 9.857 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion:105 Resp: 741305

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.8 | 13.1 | 39.1 |

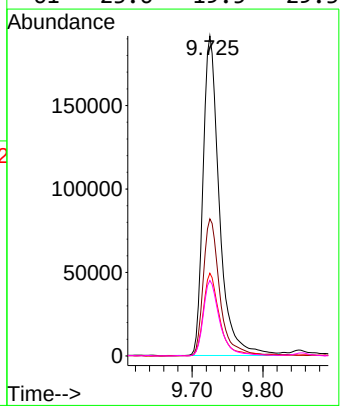


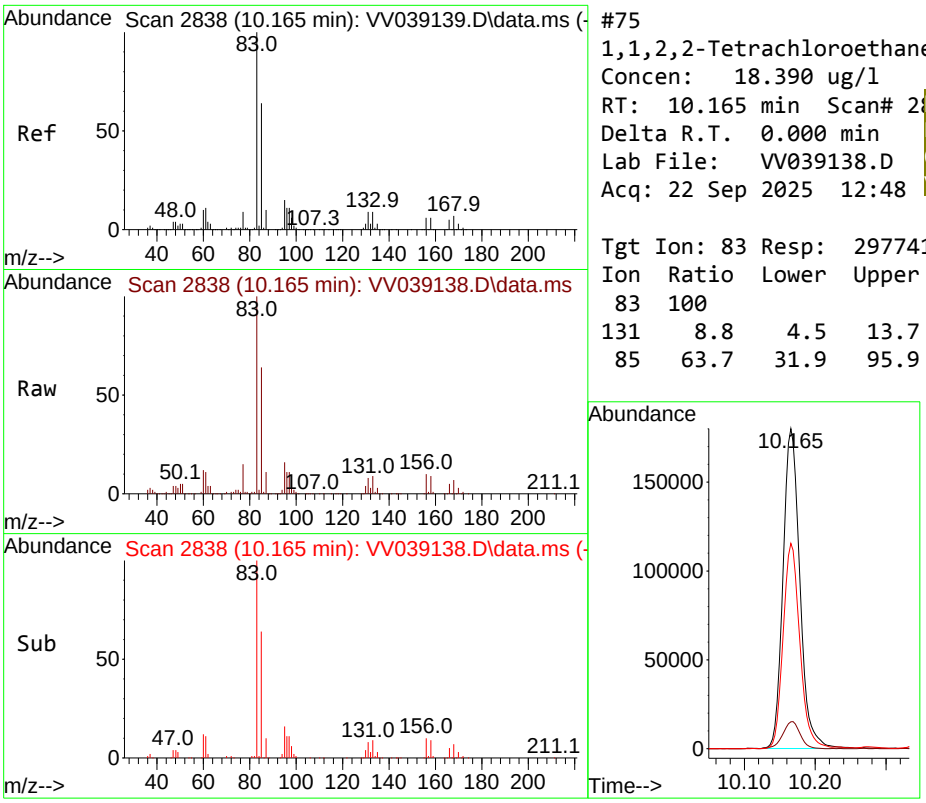




#74
N-amyl acetate
Concen: 20.826 ug/l
RT: 9.725 min Scan# 2701
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 43 Resp: 306963

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 43.4 | 35.4 | 53.0 |
| 55 | 25.0 | 20.6 | 30.8 |
| 61 | 23.6 | 19.5 | 29.3 |





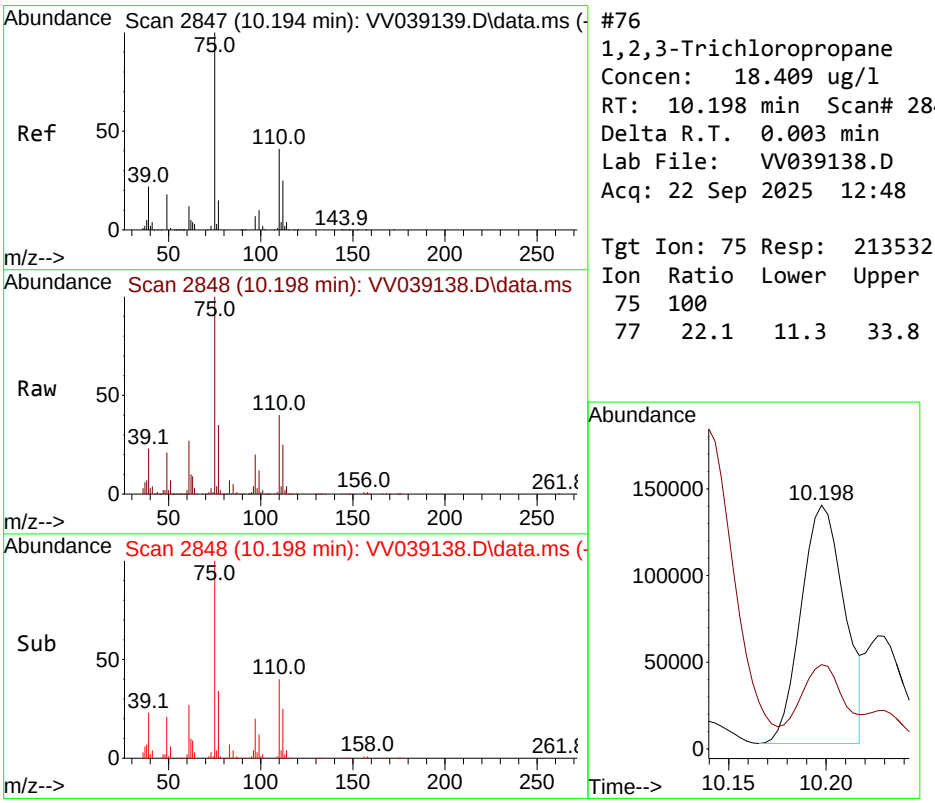

#75
1,1,2,2-Tetrachloroethane
Concen: 18.390 ug/l
RT: 10.165 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion: 83 Resp: 297741

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 8.8 | 4.5 | 13.7 |
| 85 | 63.7 | 31.9 | 95.9 |

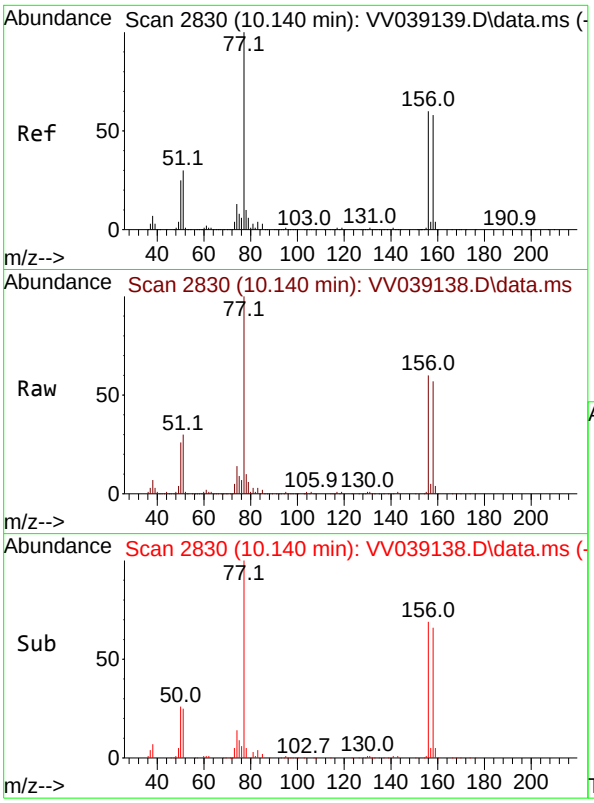



#76
1,2,3-Trichloropropane
Concen: 18.409 ug/l
RT: 10.198 min Scan# 2848
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 75 Resp: 213532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 22.1 | 11.3 | 33.8 |

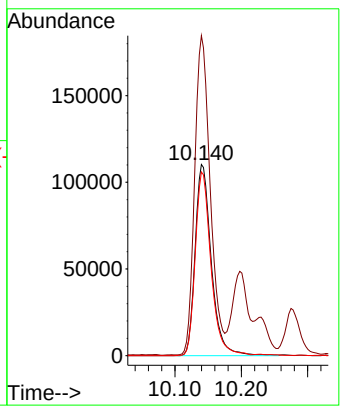


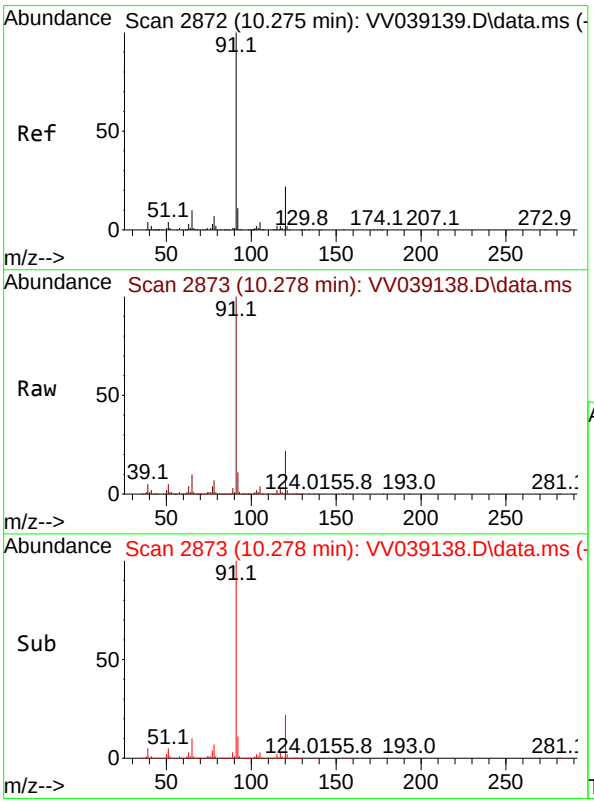

#77
Bromobenzene
Concen: 19.525 ug/l
RT: 10.140 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion:156 Resp: 187188

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 160.4 | 83.4 | 250.1 |
| 158 | 93.6 | 48.8 | 146.4 |

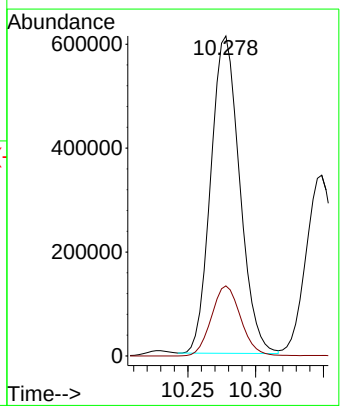


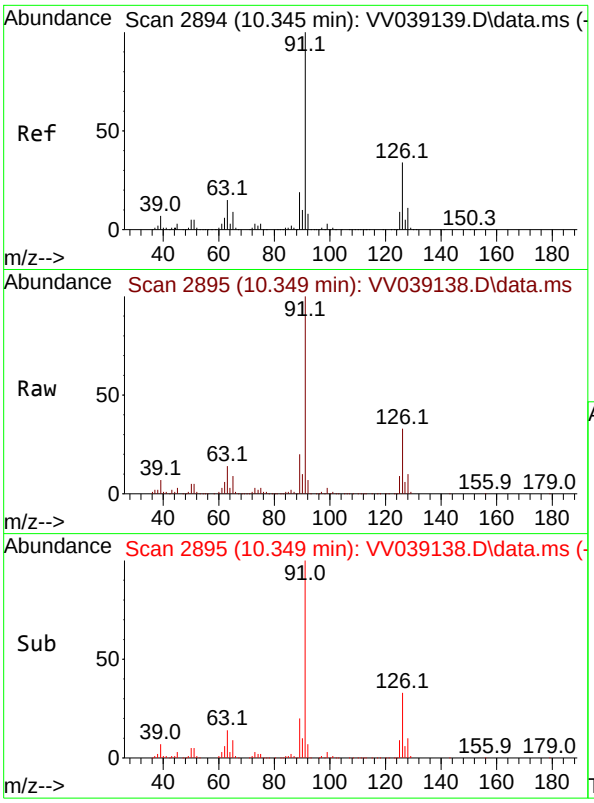




#78
n-propylbenzene
Concen: 20.118 ug/l
RT: 10.278 min Scan# 2873
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 91 Resp: 905281

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.5 | 11.1 | 33.3 |



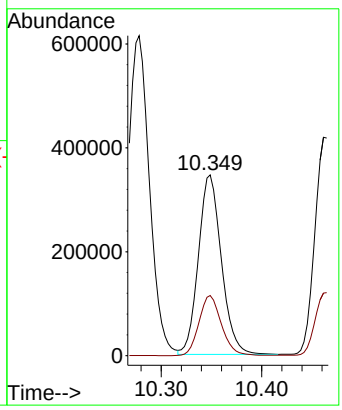


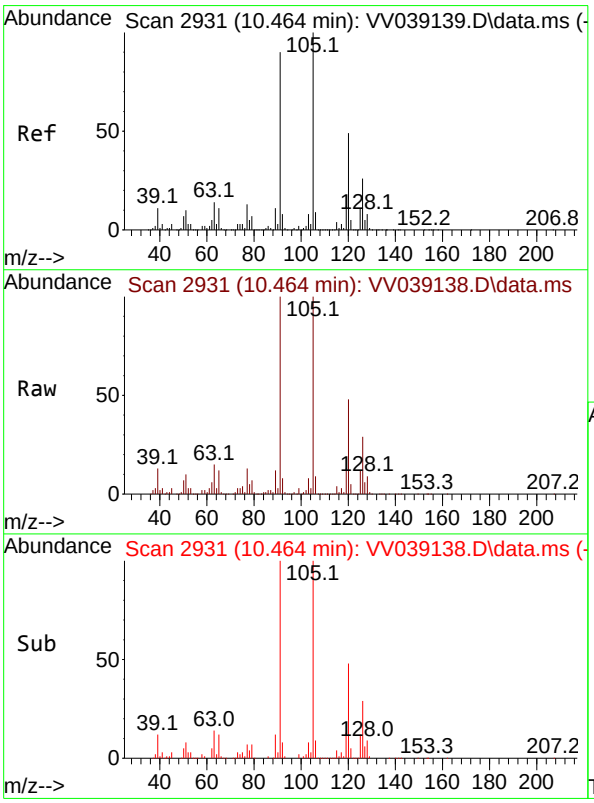

#79
2-Chlorotoluene
Concen: 20.346 ug/l
RT: 10.349 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion: 91 Resp: 547836

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.8 | 16.7 | 50.0 |

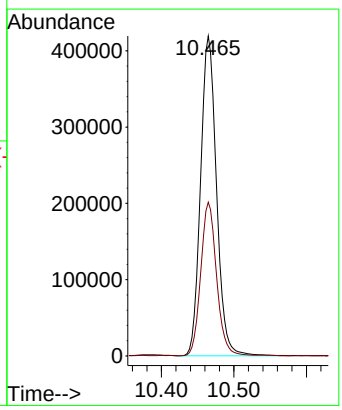


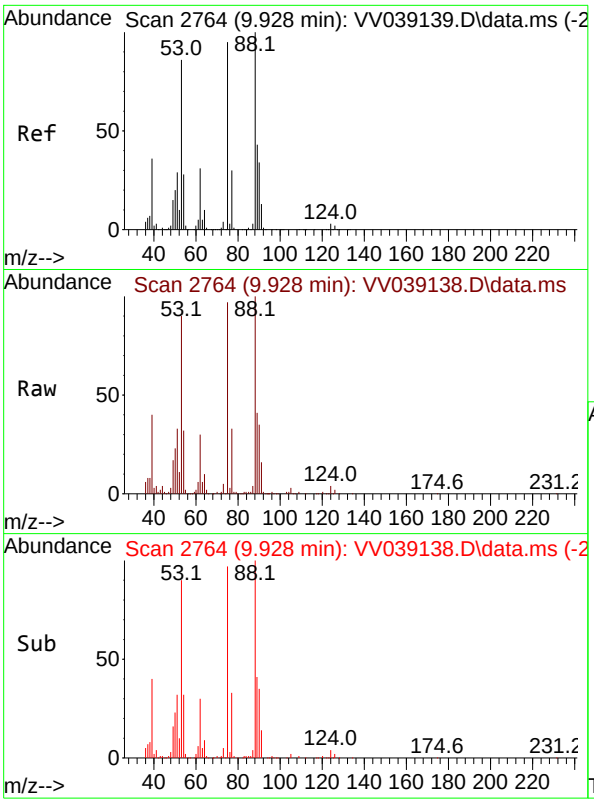




#80
1,3,5-Trimethylbenzene
Concen: 20.843 ug/l
RT: 10.464 min Scan# 2931
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:105 Resp: 640175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.6 | 24.3 | 72.8 |



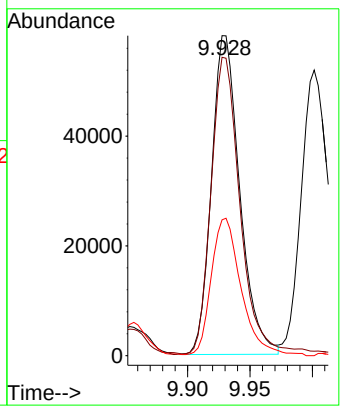


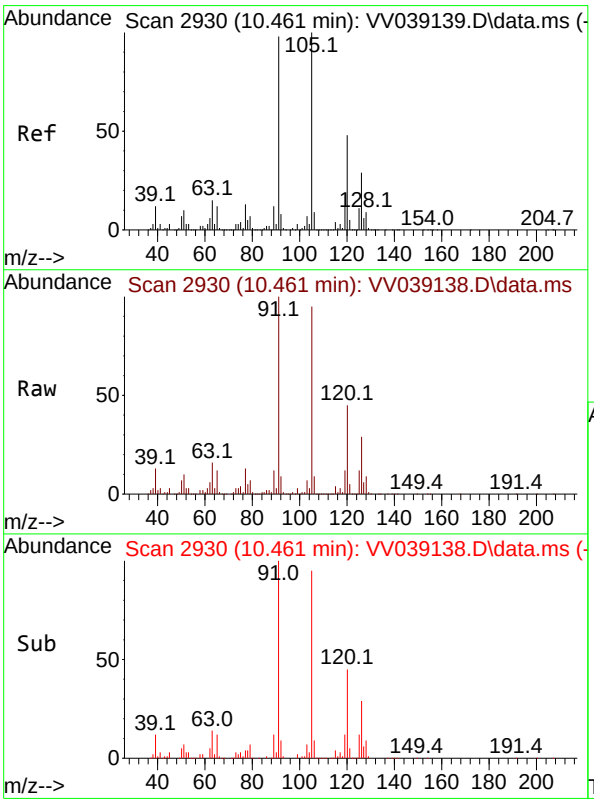

#81
trans-1,4-Dichloro-2-butene
Concen: 19.009 ug/l
RT: 9.928 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion: 75 Resp: 91848

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 95.8 | 72.5 | 108.7 |
| 89 | 45.7 | 37.2 | 55.8 |

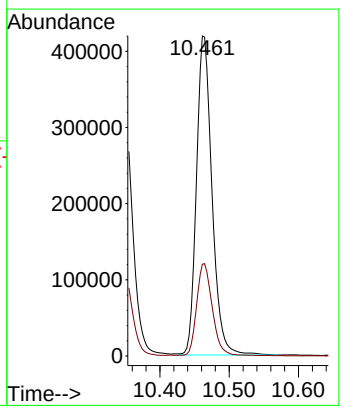


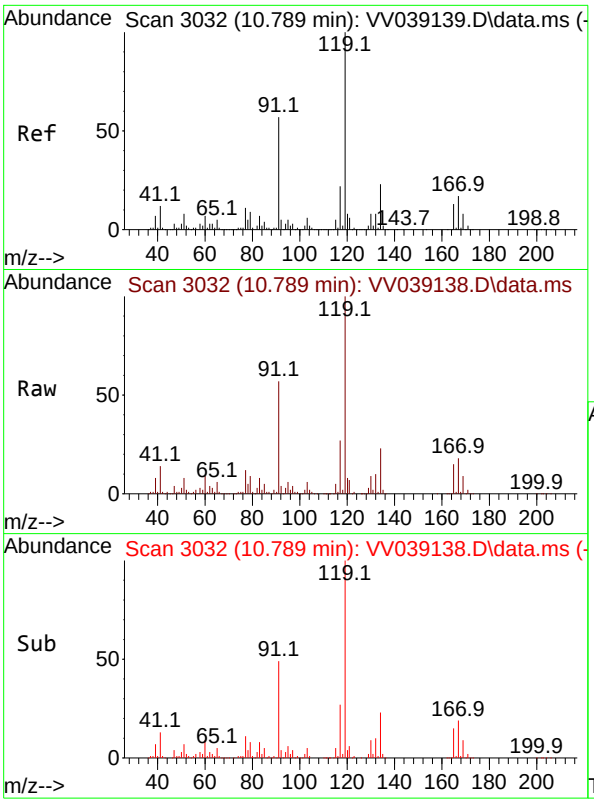




#82
4-Chlorotoluene
Concen: 20.993 ug/l
RT: 10.461 min Scan# 2930
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 91 Resp: 655427

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 28.7 | 14.5 | 43.6 |



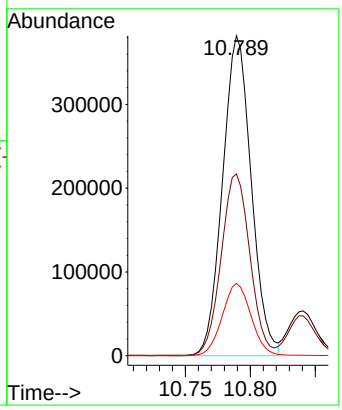


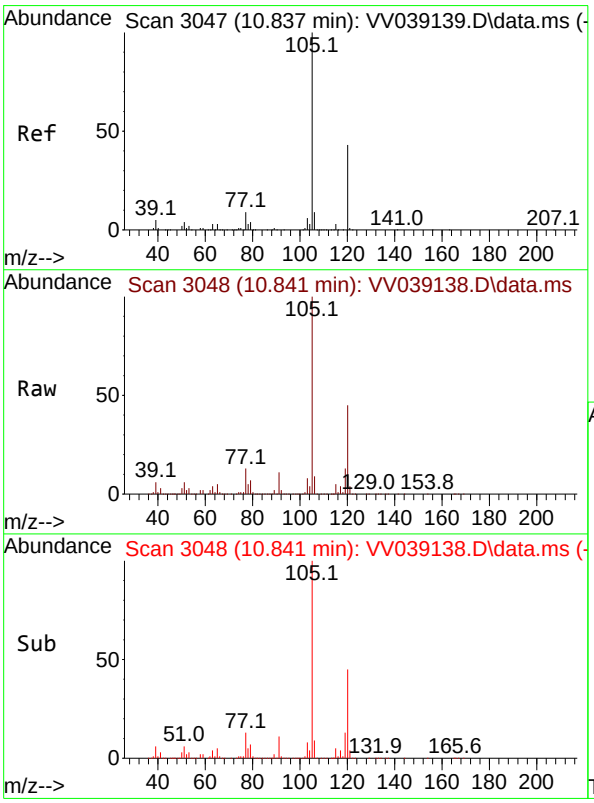

#83
tert-Butylbenzene
Concen: 19.172 ug/l
RT: 10.789 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion:119 Resp: 587151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 56.6 | 28.5 | 85.6 |
| 134 | 22.8 | 11.5 | 34.4 |

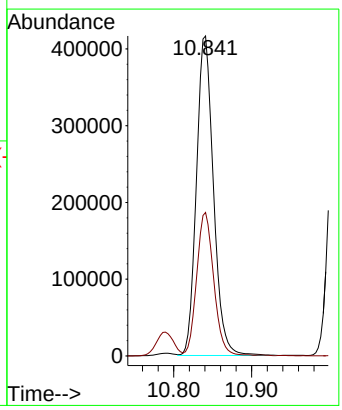


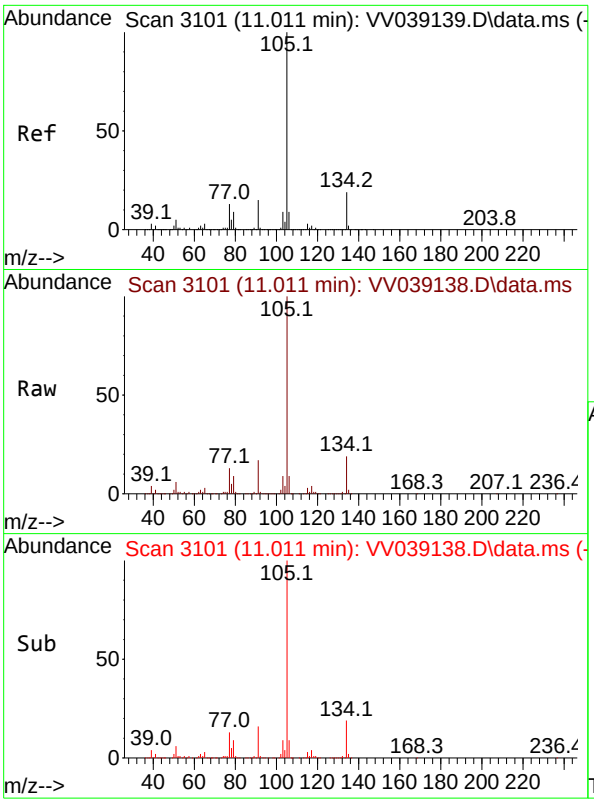




#84
1,2,4-Trimethylbenzene
Concen: 21.185 ug/l
RT: 10.841 min Scan# 3048
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:105 Resp: 631679

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.6 | 22.4 | 67.2 |



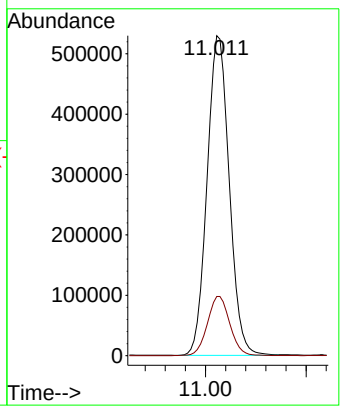


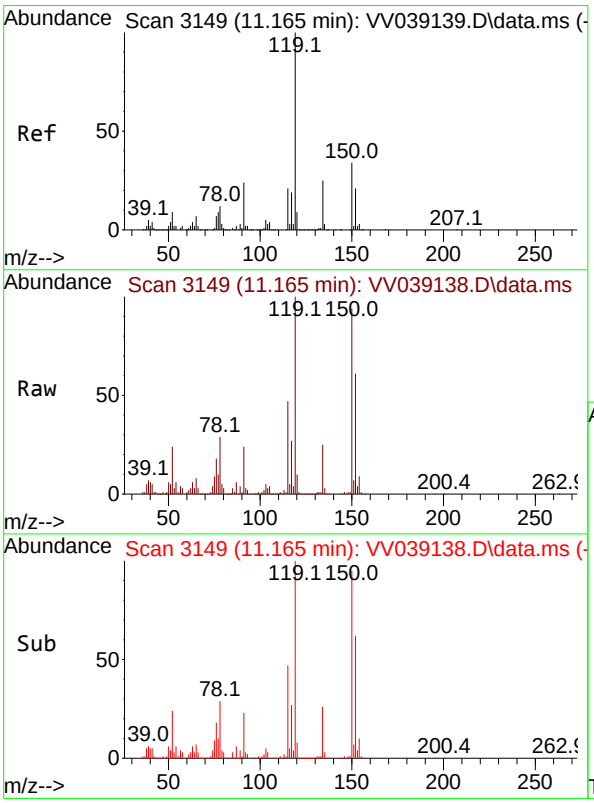

#85
sec-Butylbenzene
Concen: 19.912 ug/l
RT: 11.011 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion:105 Resp: 808869

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 18.8 | 9.6 | 28.8 |

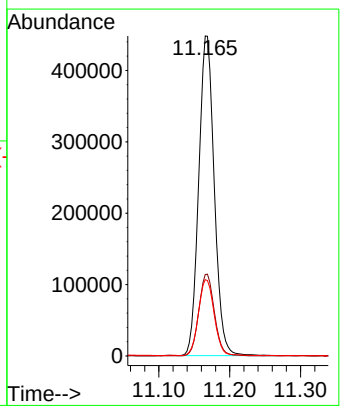


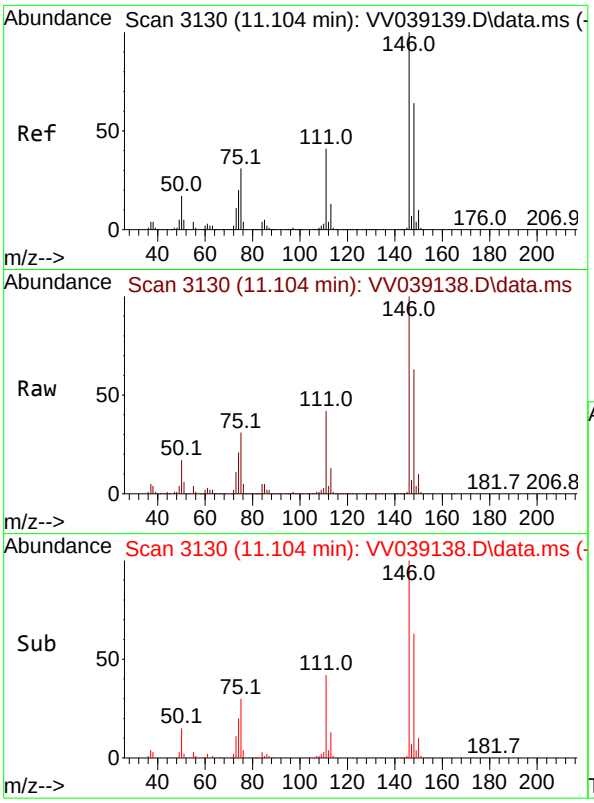




#86
p-Isopropyltoluene
Concen: 20.196 ug/l
RT: 11.165 min Scan# 3149
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:119 Resp: 682814

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.5 | 12.7 | 38.0 |
| 91 | 24.1 | 12.0 | 36.1 |



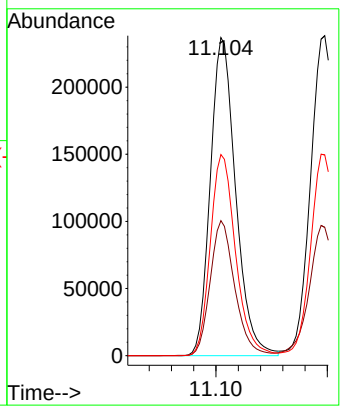


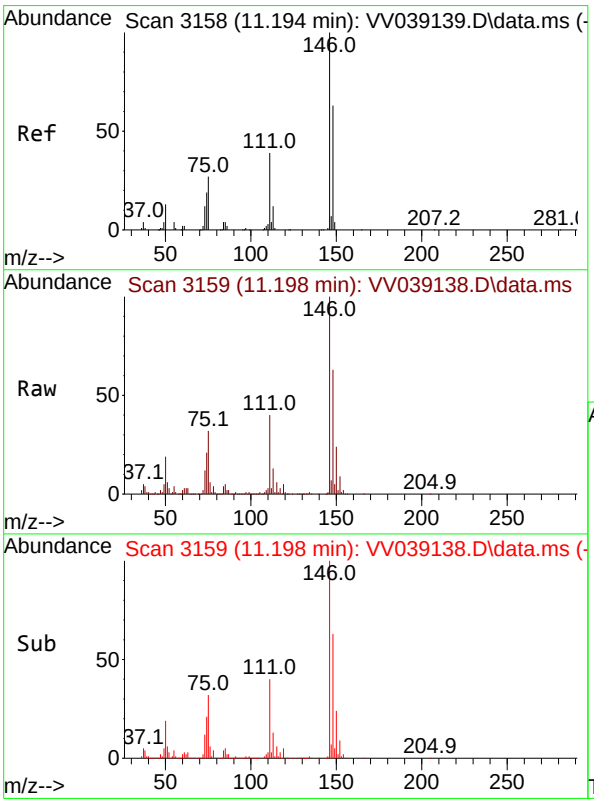

#87
1,3-Dichlorobenzene
Concen: 19.287 ug/l
RT: 11.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion:146 Resp: 374208

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.3 | 20.9 | 62.8 |
| 148 | 63.1 | 31.8 | 95.3 |

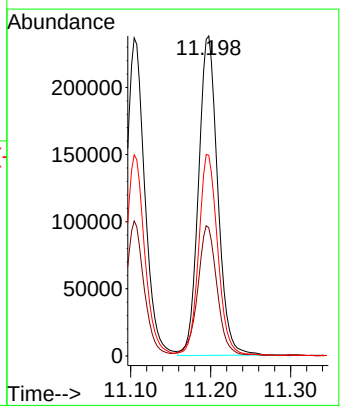


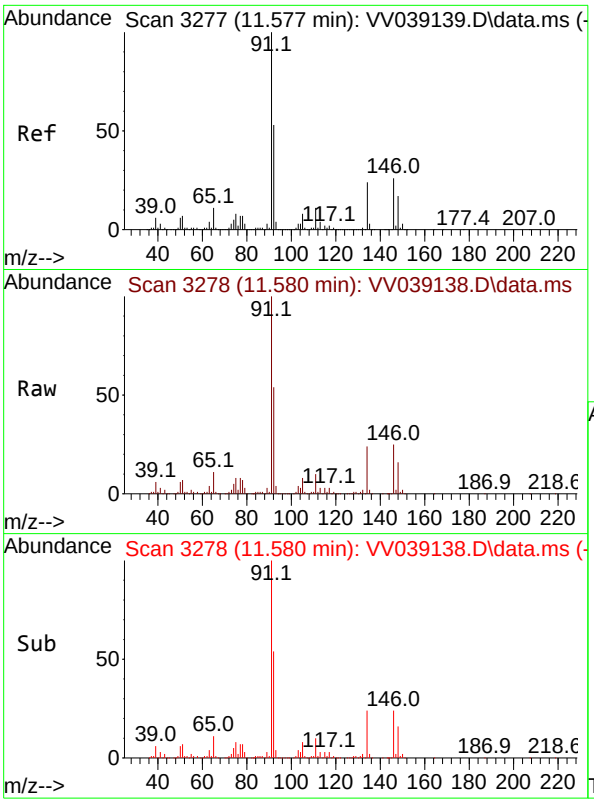




#88
1,4-Dichlorobenzene
Concen: 18.539 ug/l
RT: 11.198 min Scan# 3159
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:146 Resp: 397526

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.4 | 20.3 | 60.8 |
| 148 | 62.8 | 31.4 | 94.2 |



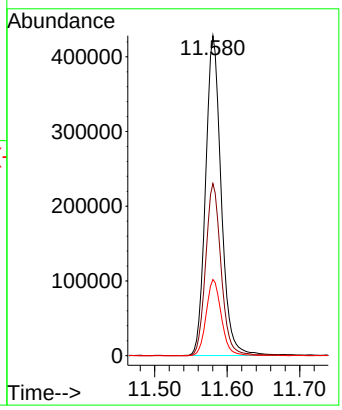


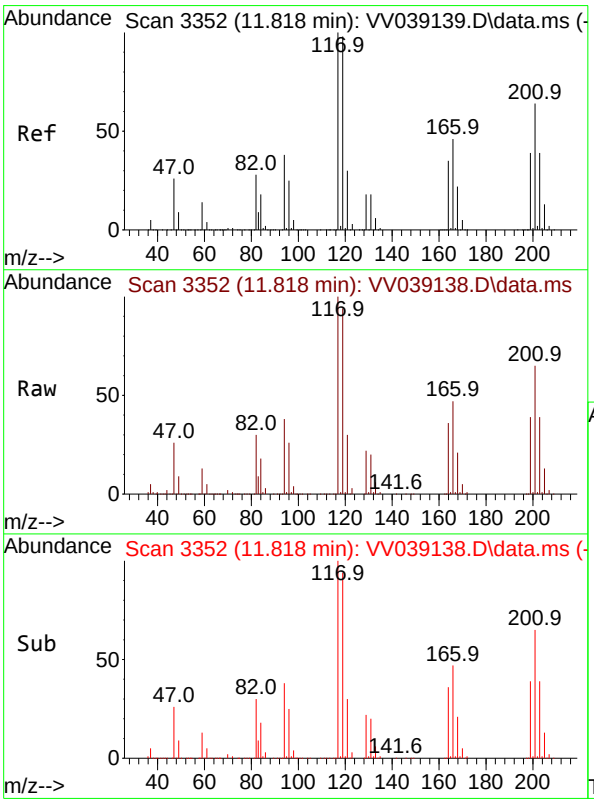

#89
n-Butylbenzene
Concen: 19.822 ug/l
RT: 11.580 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion: 91 Resp: 640044

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.3 | 26.6 | 79.8 |
| 134 | 23.1 | 12.1 | 36.3 |

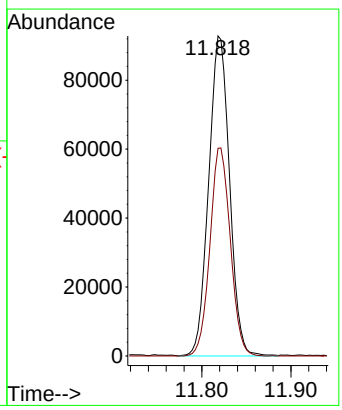


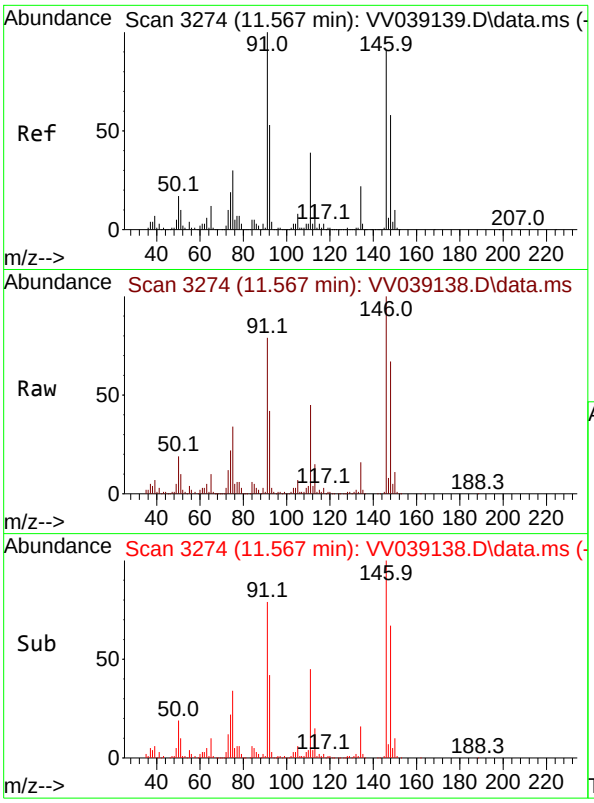




#90
Hexachloroethane
Concen: 18.118 ug/l
RT: 11.818 min Scan# 3352
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:117 Resp: 150843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 63.5 | 32.3 | 96.8 |



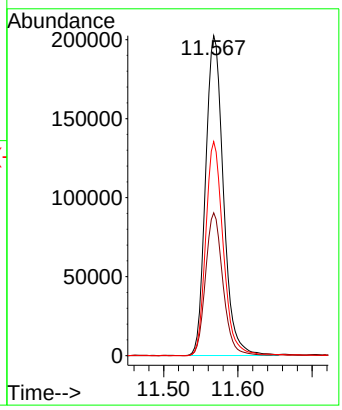


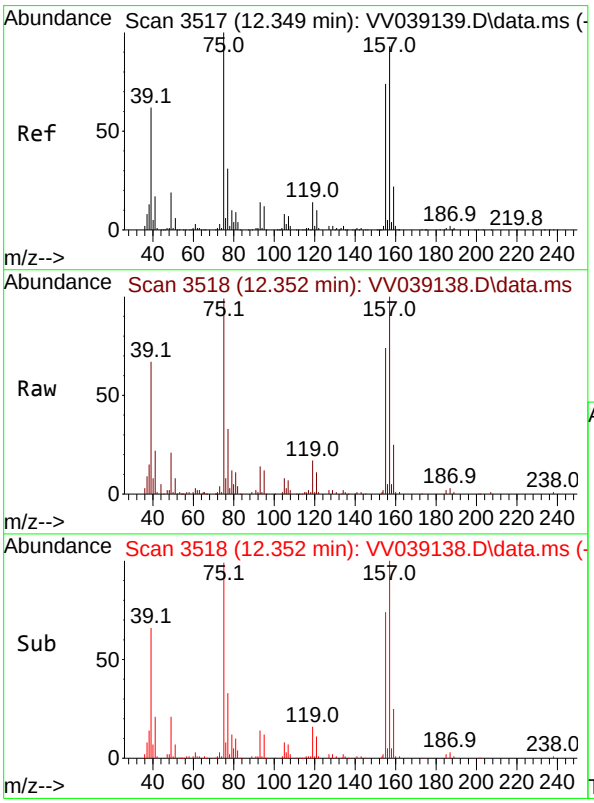

#91
1,2-Dichlorobenzene
Concen: 18.567 ug/l
RT: 11.567 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion:146 Resp: 336566

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.7 | 21.5 | 64.5 |
| 148 | 65.5 | 31.9 | 95.7 |

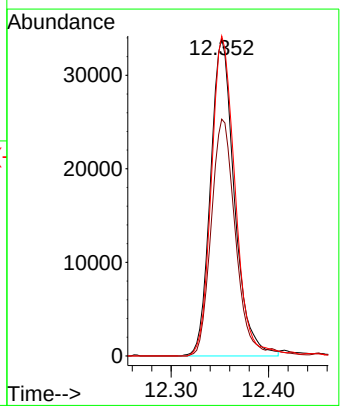


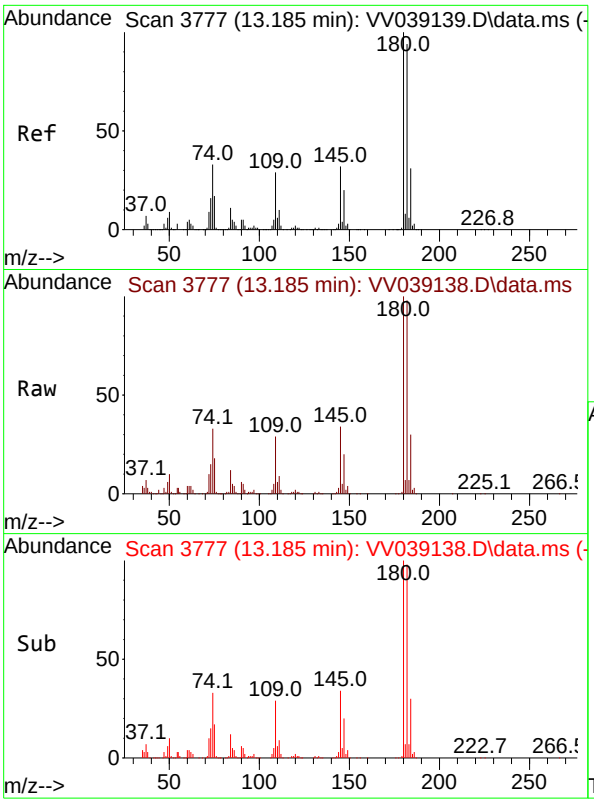




#92
1,2-Dibromo-3-Chloropropane
Concen: 19.989 ug/l
RT: 12.352 min Scan# 3518
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion: 75 Resp: 57671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 74.8 | 38.6 | 115.8 |
| 157 | 100.1 | 49.5 | 148.3 |



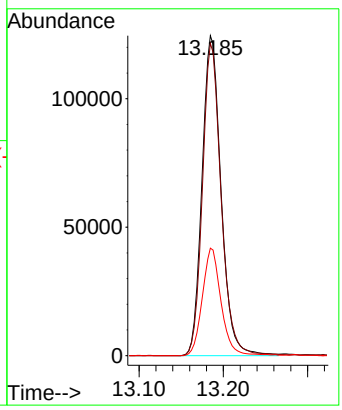


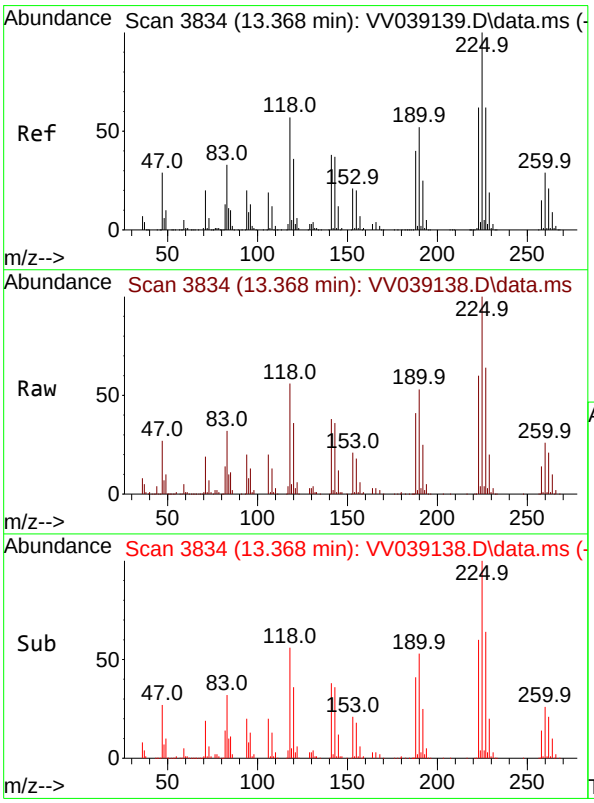

#93
1,2,4-Trichlorobenzene
Concen: 18.894 ug/l
RT: 13.185 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion:180 Resp: 196334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.8 | 47.1 | 141.4 |
| 145 | 33.1 | 16.3 | 48.8 |

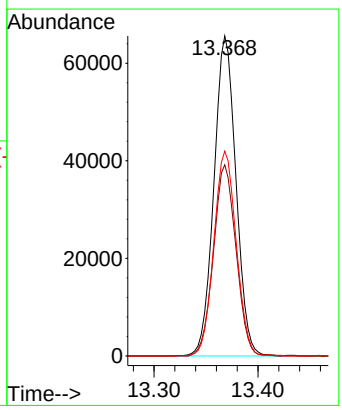


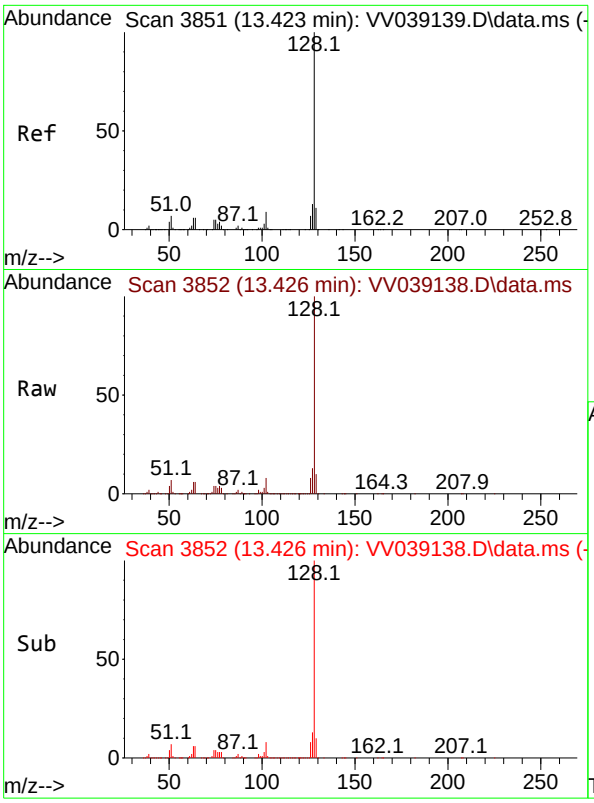




#94
Hexachlorobutadiene
Concen: 17.893 ug/l
RT: 13.368 min Scan# 3834
Delta R.T. -0.000 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:225 Resp: 96610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 61.1 | 31.6 | 94.7 |
| 227 | 65.1 | 31.8 | 95.4 |



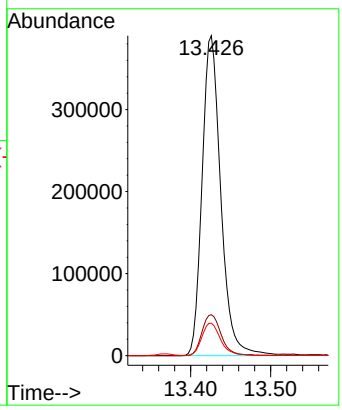


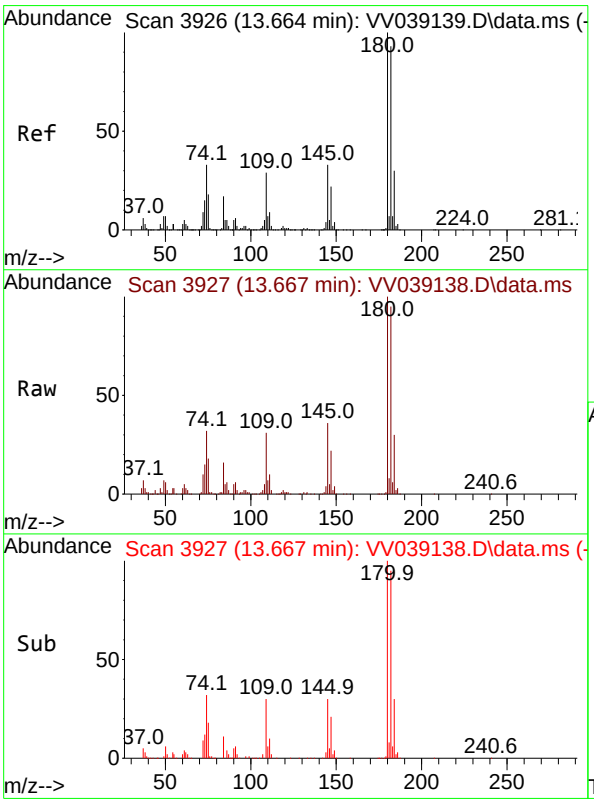

#95
Naphthalene
Concen: 18.986 ug/l
RT: 13.426 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC020

Tgt Ion:128 Resp: 634557

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.3 | 10.3 | 15.5 |
| 129 | 10.1 | 8.6 | 13.0 |

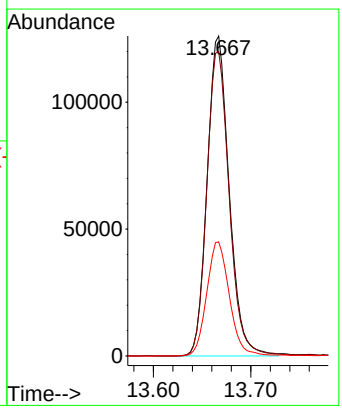



#96
1,2,3-Trichlorobenzene
Concen: 18.659 ug/l
RT: 13.667 min Scan# 3927
Delta R.T. 0.003 min
Lab File: VV039138.D
Acq: 22 Sep 2025 12:48

Tgt Ion:180 Resp: 198308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.9 | 46.9 | 140.8 |
| 145 | 36.6 | 17.0 | 51.0 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039139.D
Acq On : 22 Sep 2025 13:26
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Quant Time: Sep 24 07:23:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.597 | 168 | 563410 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.529 | 114 | 894173 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.773 | 117 | 863906 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.172 | 152 | 516167 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.937 | 65 | 363821 | 44.618 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 89.240% | | | |
| 35) Dibromofluoromethane | 4.497 | 113 | 337386 | 46.935 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 93.860% | | | |
| 50) Toluene-d8 | 7.233 | 98 | 1016135 | 48.130 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 96.260% | | | |
| 62) 4-Bromofluorobenzene | 9.998 | 95 | 453081 | 52.130 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 104.260% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.121 | 85 | 416798 | 46.733 | ug/l | 100 |
| 3) Chloromethane | 1.230 | 50 | 433999 | 45.329 | ug/l | 100 |
| 4) Vinyl Chloride | 1.298 | 62 | 470936 | 45.944 | ug/l | 100 |
| 5) Bromomethane | 1.494 | 94 | 286332 | 44.312 | ug/l | 100 |
| 6) Chloroethane | 1.558 | 64 | 300232 | 49.734 | ug/l | 100 |
| 7) Trichlorofluoromethane | 1.725 | 101 | 672325 | 45.304 | ug/l | 100 |
| 8) Diethyl Ether | 1.918 | 74 | 251813 | 45.707 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 2.082 | 101 | 395615 | 44.803 | ug/l | 100 |
| 10) Methyl Iodide | 2.195 | 142 | 442822 | 52.662 | ug/l | 100 |
| 11) Tert butyl alcohol | 2.564 | 59 | 385746 | 223.826 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 2.082 | 96 | 379710 | 44.700 | ug/l | 100 |
| 13) Acrolein | 2.008 | 56 | 74486 | 249.076 | ug/l | 100 |
| 14) Allyl chloride | 2.355 | 41 | 700342 | 46.154 | ug/l | 100 |
| 15) Acrylonitrile | 2.671 | 53 | 1228907 | 222.439 | ug/l | 100 |
| 16) Acetone | 2.118 | 43 | 1265424 | 251.263 | ug/l | 100 |
| 17) Carbon Disulfide | 2.253 | 76 | 1172348 | 45.126 | ug/l | 100 |
| 18) Methyl Acetate | 2.378 | 43 | 553676 | 45.827 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 2.709 | 73 | 1258060 | 46.476 | ug/l | 100 |
| 20) Methylene Chloride | 2.455 | 84 | 439142 | 49.828 | ug/l | 100 |
| 21) trans-1,2-Dichloroethene | 2.699 | 96 | 407938 | 45.109 | ug/l | 100 |
| 22) Diisopropyl ether | 3.214 | 45 | 1419527 | 48.895 | ug/l | 100 |
| 23) Vinyl Acetate | 3.185 | 43 | 6209687 | 244.506 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 3.114 | 63 | 781832 | 44.037 | ug/l | 100 |
| 25) 2-Butanone | 3.860 | 43 | 1650213 | 257.105 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 3.806 | 77 | 698283 | 44.534 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 3.818 | 96 | 488972 | 49.026 | ug/l | 100 |
| 28) Bromochloromethane | 4.143 | 49 | 382640 | 48.820 | ug/l | 100 |
| 29) Tetrahydrofuran | 4.230 | 42 | 1039169 | 254.258 | ug/l | 100 |
| 30) Chloroform | 4.275 | 83 | 839217 | 45.268 | ug/l | 100 |
| 31) Cyclohexane | 4.580 | 56 | 701482 | 48.232 | ug/l | 100 |
| 32) 1,1,1-Trichloroethane | 4.510 | 97 | 731030 | 45.547 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 4.741 | 75 | 554798 | 50.680 | ug/l | 100 |
| 37) Ethyl Acetate | 3.970 | 43 | 638131 | 47.519 | ug/l | 100 |
| 38) Carbon Tetrachloride | 4.732 | 117 | 628516 | 47.666 | ug/l | 100 |
| 39) Methylcyclohexane | 6.043 | 83 | 736231 | 56.095 | ug/l | 100 |
| 40) Benzene | 5.005 | 78 | 1779301 | 50.276 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039139.D
Acq On : 22 Sep 2025 13:26
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Quant Time: Sep 24 07:23:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.153 | 41 | 295316 | 49.541 | ug/l | 100 |
| 42) 1,2-Dichloroethane | 5.037 | 62 | 595216 | 48.000 | ug/l | 100 |
| 43) Isopropyl Acetate | 5.188 | 43 | 956288 | 51.691 | ug/l | 100 |
| 44) Trichloroethene | 5.828 | 130 | 414171 | 50.715 | ug/l | 100 |
| 45) 1,2-Dichloropropane | 6.085 | 63 | 448750 | 51.014 | ug/l | 100 |
| 46) Dibromomethane | 6.220 | 93 | 329073 | 48.876 | ug/l | 100 |
| 47) Bromodichloromethane | 6.423 | 83 | 673646 | 48.398 | ug/l | 100 |
| 48) Methyl methacrylate | 6.291 | 41 | 450230 | 53.193 | ug/l | 100 |
| 49) 1,4-Dioxane | 6.288 | 88 | 133834 | 1006.069 | ug/l | 100 |
| 51) 4-Methyl-2-Pentanone | 7.146 | 43 | 3273840 | 276.753 | ug/l | 100 |
| 52) Toluene | 7.304 | 92 | 1099325 | 53.574 | ug/l | 100 |
| 53) t-1,3-Dichloropropene | 7.571 | 75 | 650976 | 53.666 | ug/l | 100 |
| 54) cis-1,3-Dichloropropene | 6.944 | 75 | 725015 | 54.142 | ug/l | 100 |
| 55) 1,1,2-Trichloroethane | 7.757 | 97 | 441822 | 48.020 | ug/l | 100 |
| 56) Ethyl methacrylate | 7.712 | 69 | 640636 | 58.632 | ug/l | 100 |
| 57) 1,3-Dichloropropane | 7.931 | 76 | 733341 | 50.505 | ug/l | 100 |
| 58) 2-Chloroethyl Vinyl ether | 6.809 | 63 | 1579407 | 255.700 | ug/l | 100 |
| 59) 2-Hexanone | 8.059 | 43 | 2441880 | 255.630 | ug/l | 100 |
| 60) Dibromochloromethane | 8.165 | 129 | 507043 | 48.365 | ug/l | 100 |
| 61) 1,2-Dibromoethane | 8.272 | 107 | 473037 | 50.273 | ug/l | 100 |
| 64) Tetrachloroethene | 7.895 | 164 | 356209 | 49.227 | ug/l | 100 |
| 65) Chlorobenzene | 8.802 | 112 | 1194769 | 49.651 | ug/l | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 8.895 | 131 | 421762 | 48.507 | ug/l | 100 |
| 67) Ethyl Benzene | 8.934 | 91 | 2057558 | 56.487 | ug/l | 100 |
| 68) m/p-Xylenes | 9.059 | 106 | 1639130 | 116.591 | ug/l | 100 |
| 69) o-Xylene | 9.468 | 106 | 730558 | 58.688 | ug/l | 100 |
| 70) Styrene | 9.484 | 104 | 1341298 | 50.845 | ug/l | 100 |
| 71) Bromoform | 9.651 | 173 | 341871 | 50.337 | ug/l | 100 |
| 73) Isopropylbenzene | 9.854 | 105 | 2033373 | 54.313 | ug/l | 100 |
| 74) N-amyl acetate | 9.722 | 43 | 863632 | 57.833 | ug/l | 100 |
| 75) 1,1,2,2-Tetrachloroethane | 10.165 | 83 | 735590 | 44.844 | ug/l | 100 |
| 76) 1,2,3-Trichloropropane | 10.194 | 75 | 541552 | 46.080 | ug/l | 100 |
| 77) Bromobenzene | 10.140 | 156 | 477608 | 49.171 | ug/l | 100 |
| 78) n-propylbenzene | 10.275 | 91 | 2528458 | 55.461 | ug/l | 100 |
| 79) 2-Chlorotoluene | 10.345 | 91 | 1462530 | 53.612 | ug/l | 100 |
| 80) 1,3,5-Trimethylbenzene | 10.464 | 105 | 1748435 | 56.188 | ug/l | 100 |
| 81) trans-1,4-Dichloro-2-b... | 9.928 | 75 | 255259 | 52.143 | ug/l | 100 |
| 82) 4-Chlorotoluene | 10.461 | 91 | 1722899 | 54.466 | ug/l | 100 |
| 83) tert-Butylbenzene | 10.789 | 119 | 1663245 | 53.602 | ug/l | 100 |
| 84) 1,2,4-Trimethylbenzene | 10.837 | 105 | 1743425 | 57.709 | ug/l | 100 |
| 85) sec-Butylbenzene | 11.011 | 105 | 2252781 | 54.737 | ug/l | 100 |
| 86) p-Isopropyltoluene | 11.165 | 119 | 1900412 | 55.479 | ug/l | 100 |
| 87) 1,3-Dichlorobenzene | 11.104 | 146 | 958701 | 48.769 | ug/l | 100 |
| 88) 1,4-Dichlorobenzene | 11.194 | 146 | 998426 | 45.957 | ug/l | 100 |
| 89) n-Butylbenzene | 11.577 | 91 | 1864844 | 57.003 | ug/l | 100 |
| 90) Hexachloroethane | 11.818 | 117 | 375818 | 44.553 | ug/l | 100 |
| 91) 1,2-Dichlorobenzene | 11.567 | 146 | 897135 | 48.848 | ug/l | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.349 | 75 | 147329 | 49.928 | ug/l | 100 |
| 93) 1,2,4-Trichlorobenzene | 13.185 | 180 | 555323 | 52.747 | ug/l | 100 |
| 94) Hexachlorobutadiene | 13.368 | 225 | 247695 | 45.279 | ug/l | 100 |
| 95) Naphthalene | 13.423 | 128 | 1968567 | 58.135 | ug/l | 100 |
| 96) 1,2,3-Trichlorobenzene | 13.664 | 180 | 571563 | 53.081 | ug/l | 100 |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039139.D
Acq On : 22 Sep 2025 13:26
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Quant Time: Sep 24 07:23:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

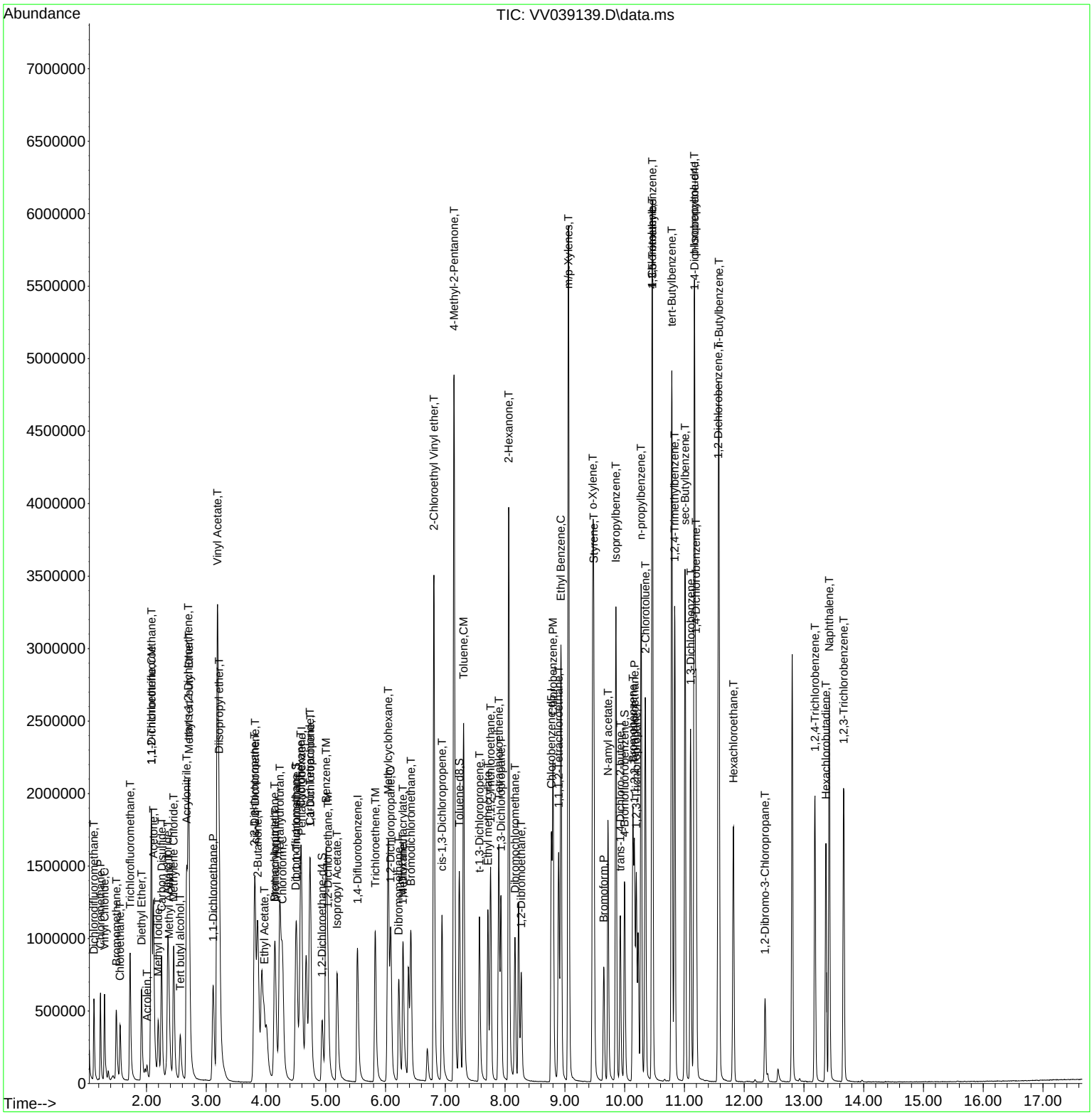
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

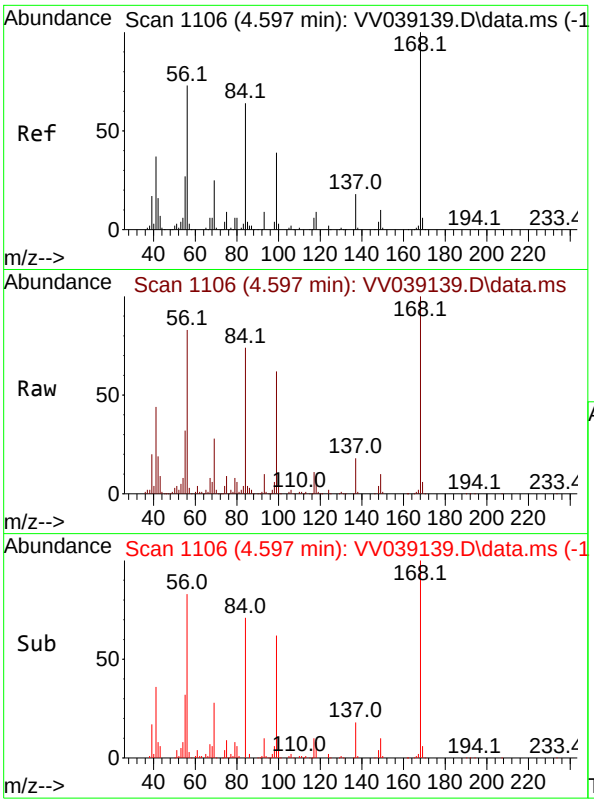
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039139.D
Acq On : 22 Sep 2025 13:26
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Quant Time: Sep 24 07:23:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration



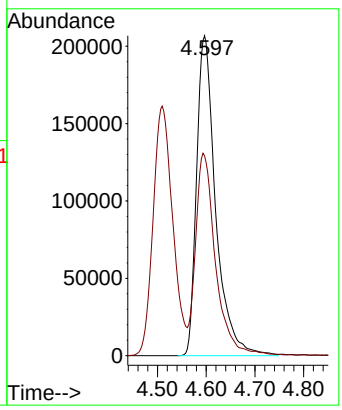


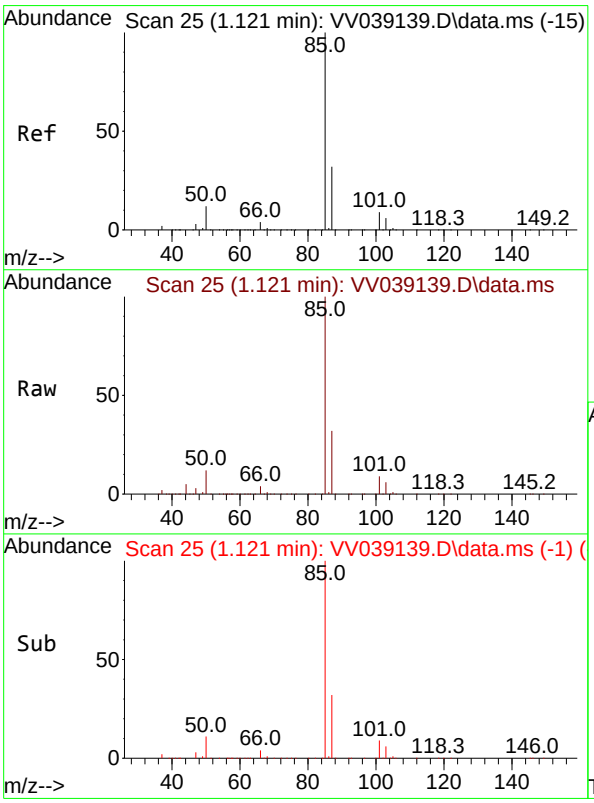

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.597 min Scan# 11
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion:168 Resp: 563410

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 62.0 | 49.6 | 74.4 |

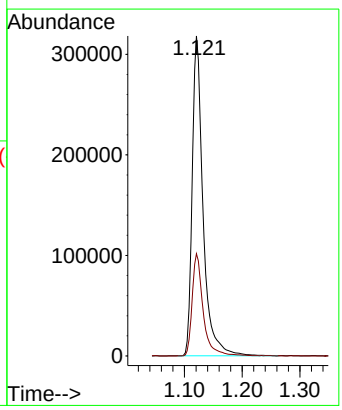


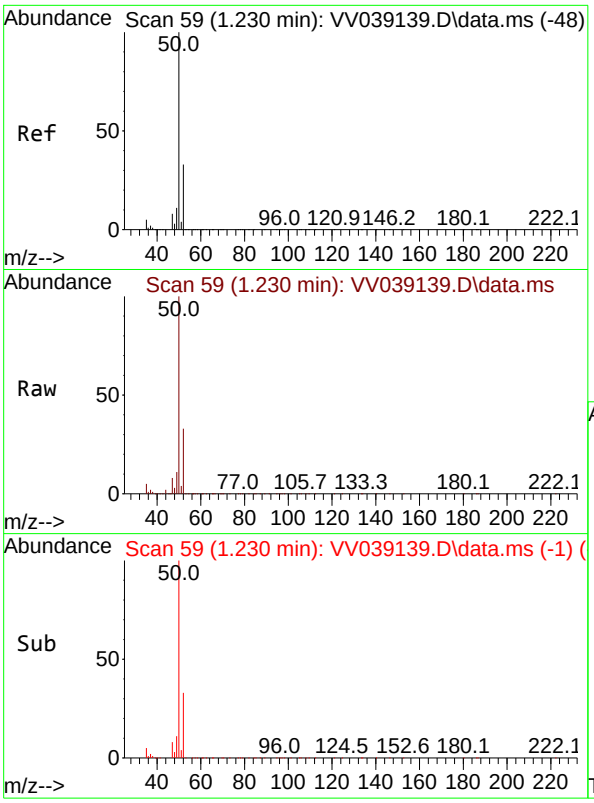




#2
Dichlorodifluoromethane
Concen: 46.733 ug/l
RT: 1.121 min Scan# 25
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 85 Resp: 416798

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.9 | 16.0 | 47.9 |



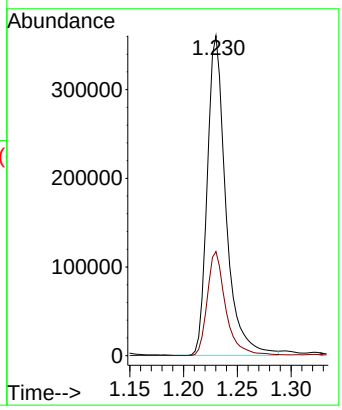


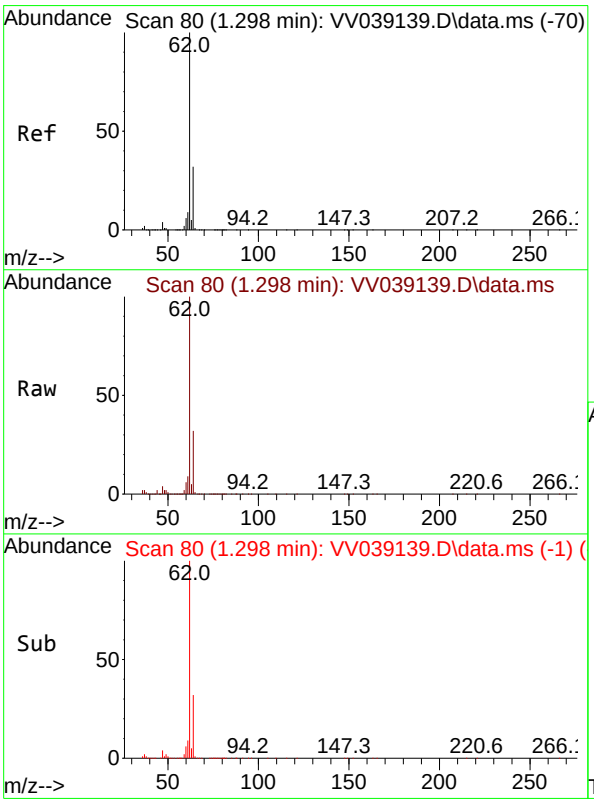

#3
Chloromethane
Concen: 45.329 ug/l
RT: 1.230 min Scan# 5
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 50 Resp: 433999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.5 | 26.0 | 39.0 |

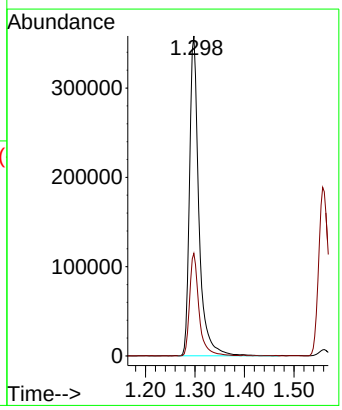


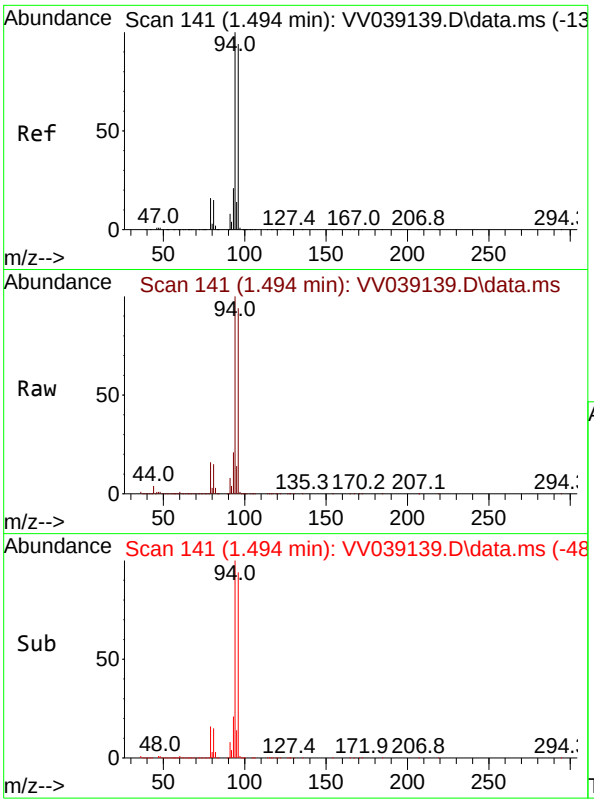




#4
Vinyl Chloride
Concen: 45.944 ug/l
RT: 1.298 min Scan# 80
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 62 Resp: 470936

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.0 | 25.6 | 38.4 |



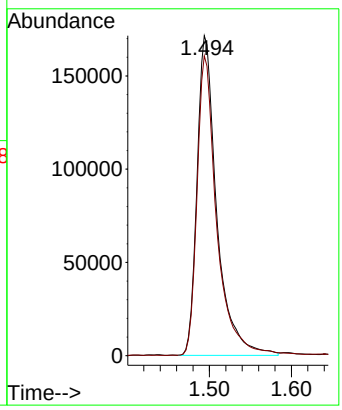


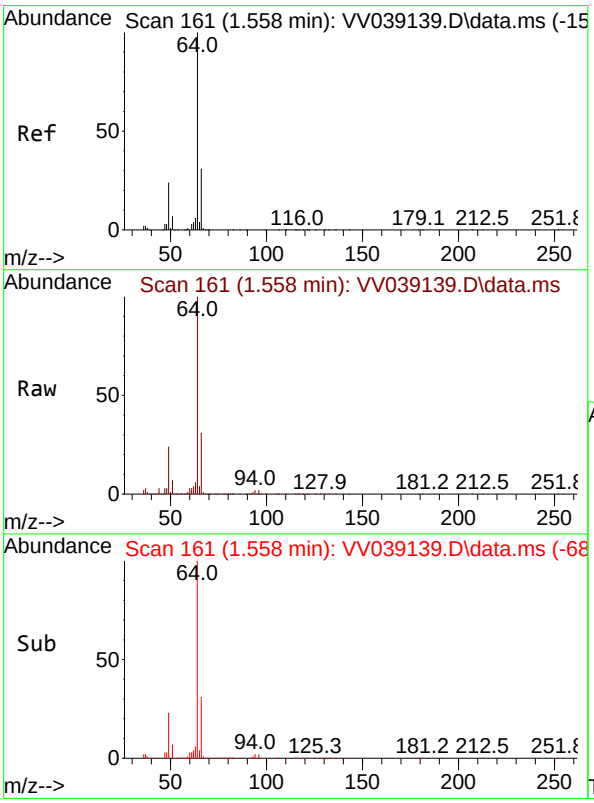

#5
Bromomethane
Concen: 44.312 ug/l
RT: 1.494 min Scan# 14
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 94 Resp: 286332

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 93.6 | 74.9 | 112.3 |

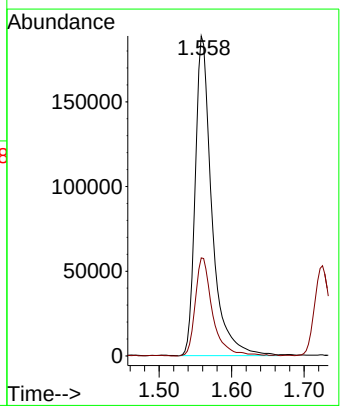


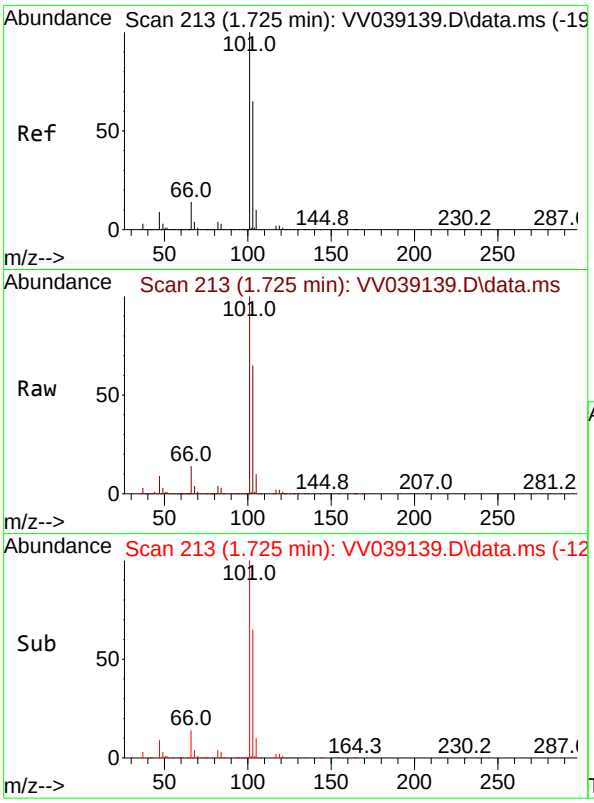




#6
Chloroethane
Concen: 49.734 ug/l
RT: 1.558 min Scan# 161
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 64 Resp: 300232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.7 | 24.6 | 36.8 |



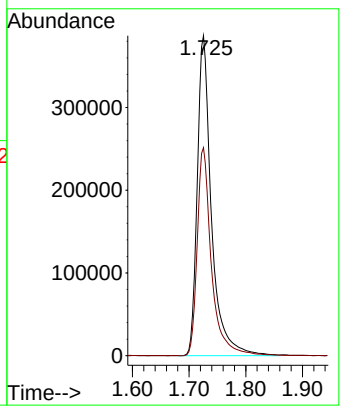


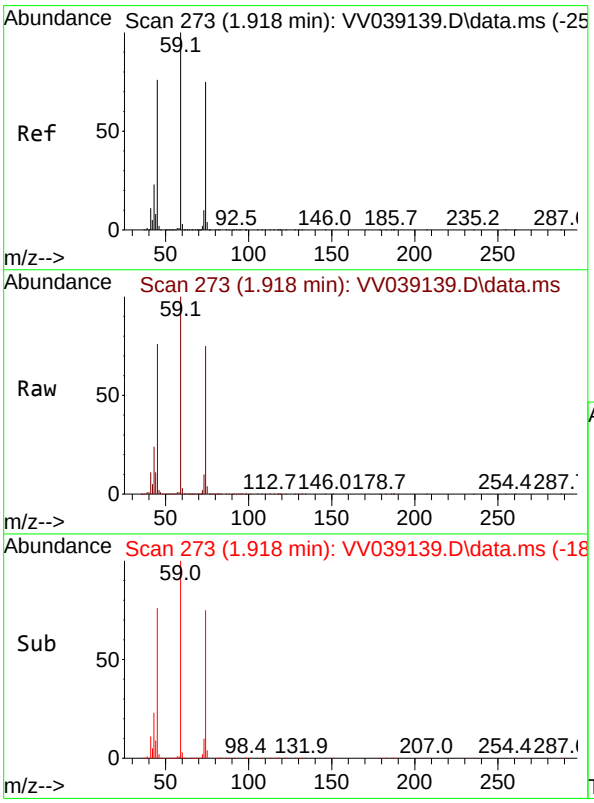

#7
Trichlorofluoromethane
Concen: 45.304 ug/l
RT: 1.725 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion:101 Resp: 672325

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.0 | 52.0 | 78.0 |

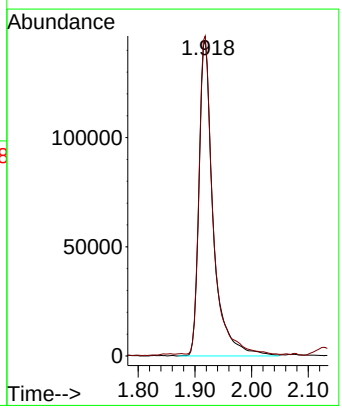


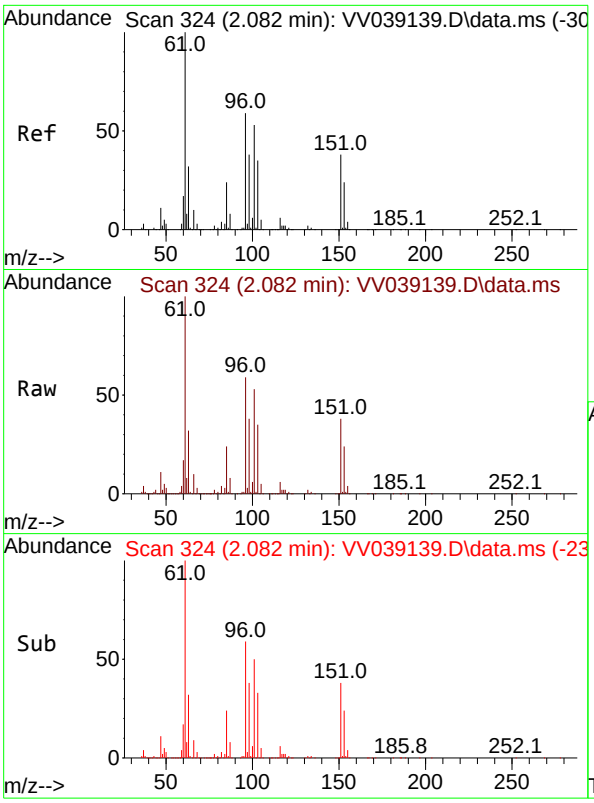




#8
Diethyl Ether
Concen: 45.707 ug/l
RT: 1.918 min Scan# 273
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 74 Resp: 251813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 99.2 | 49.6 | 148.8 |



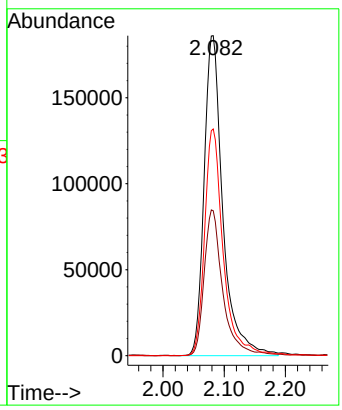


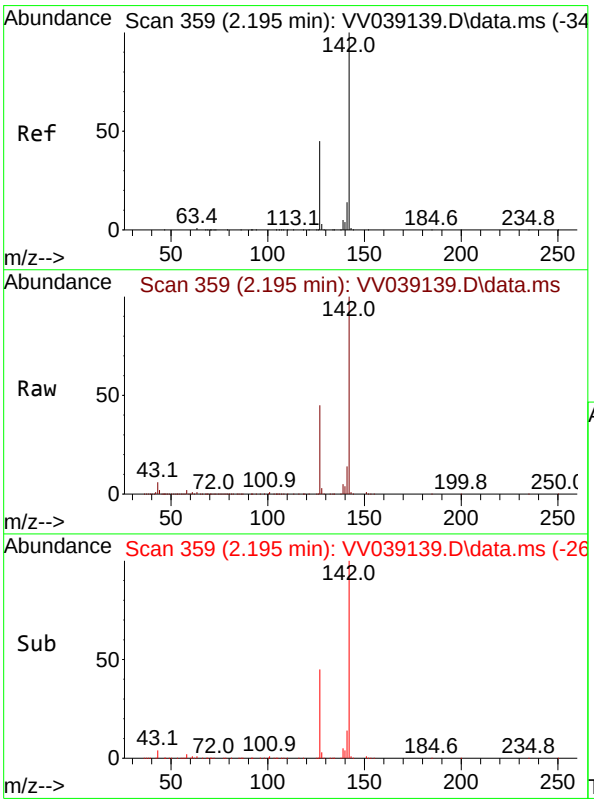

#9
1,1,2-Trichlorotrifluoroethane
Concen: 44.803 ug/l
RT: 2.082 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion:101 Resp: 395615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 45.2 | 36.2 | 54.2 |
| 151 | 70.4 | 56.3 | 84.5 |

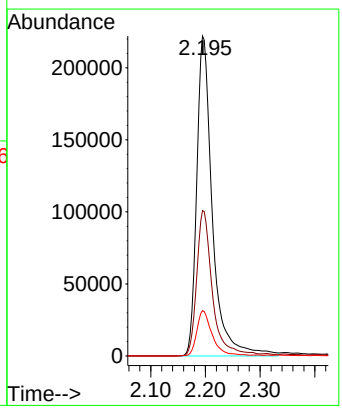


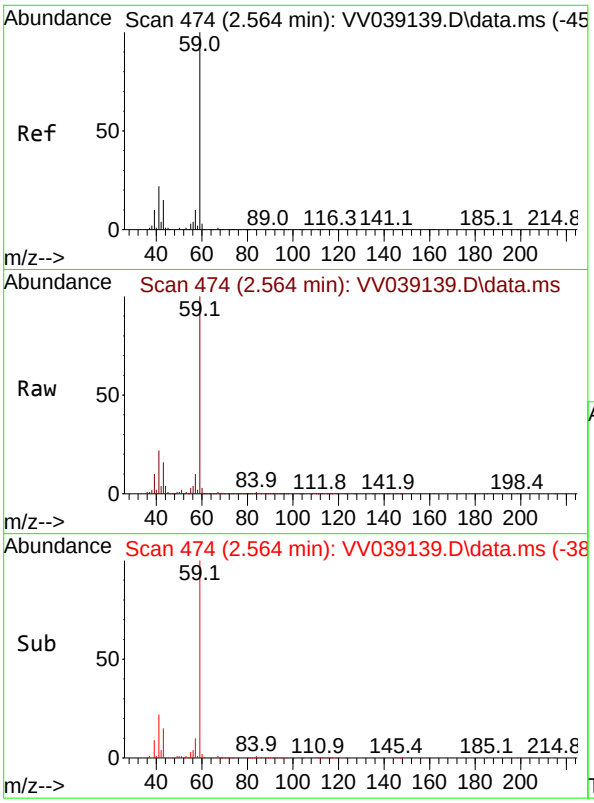




#10
Methyl Iodide
Concen: 52.662 ug/l
RT: 2.195 min Scan# 359
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:142 Resp: 442822

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 45.4 | 36.3 | 54.5 |
| 141 | 14.0 | 11.2 | 16.8 |



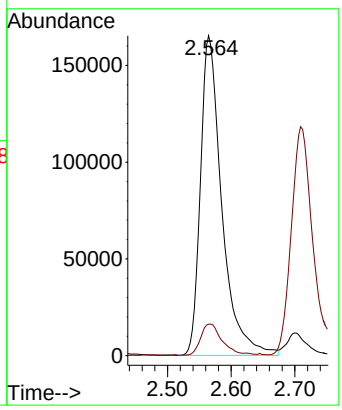


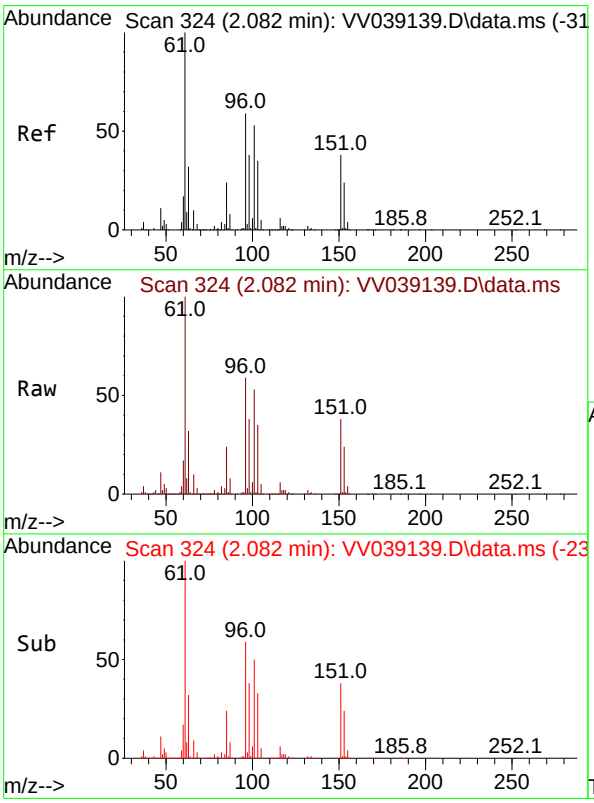

#11
Tert butyl alcohol
Concen: 223.826 ug/l
RT: 2.564 min Scan# 4
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 59 Resp: 385746

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 9.8 | 7.8 | 11.8 |

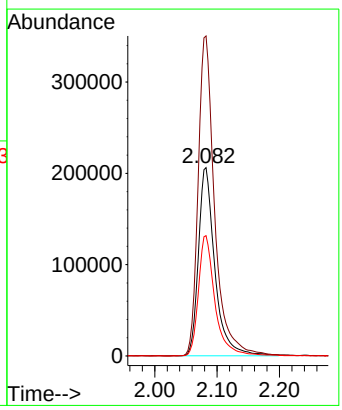


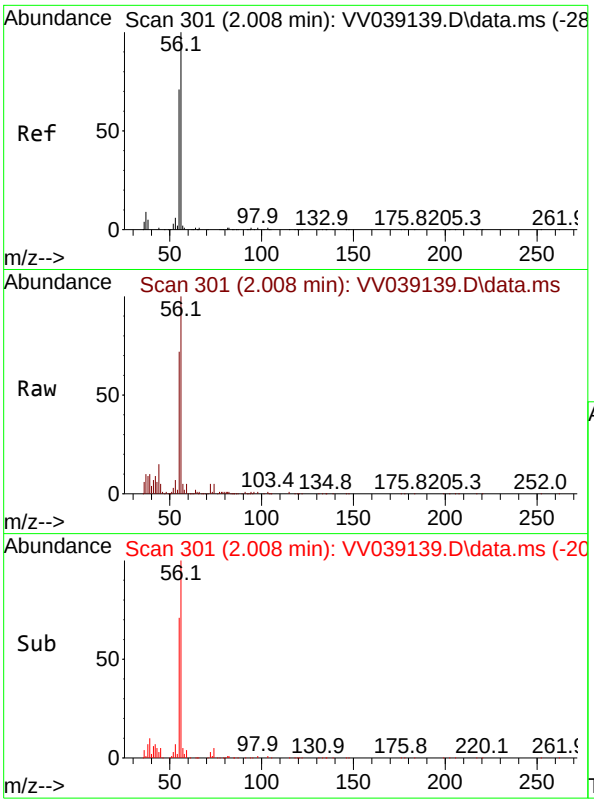




#12
1,1-Dichloroethene
Concen: 44.700 ug/l
RT: 2.082 min Scan# 324
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 96 Resp: 379710

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 170.0 | 136.0 | 204.0 |
| 98 | 63.8 | 51.0 | 76.6 |



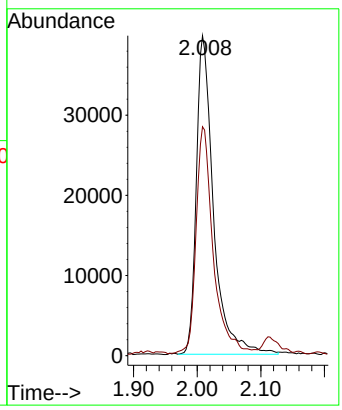


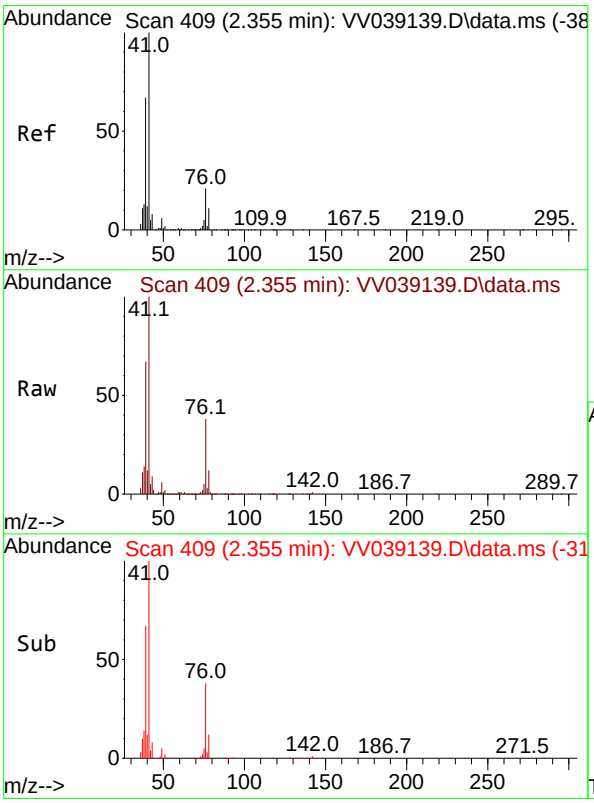

#13
Acrolein
Concen: 249.076 ug/l
RT: 2.008 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 56 Resp: 74486

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 70.3 | 56.2 | 84.4 |

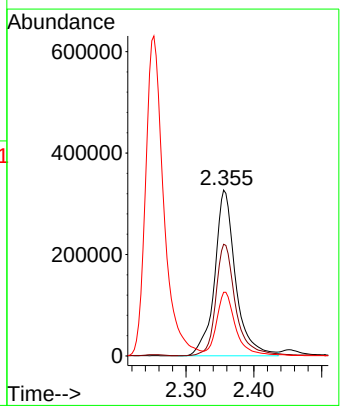


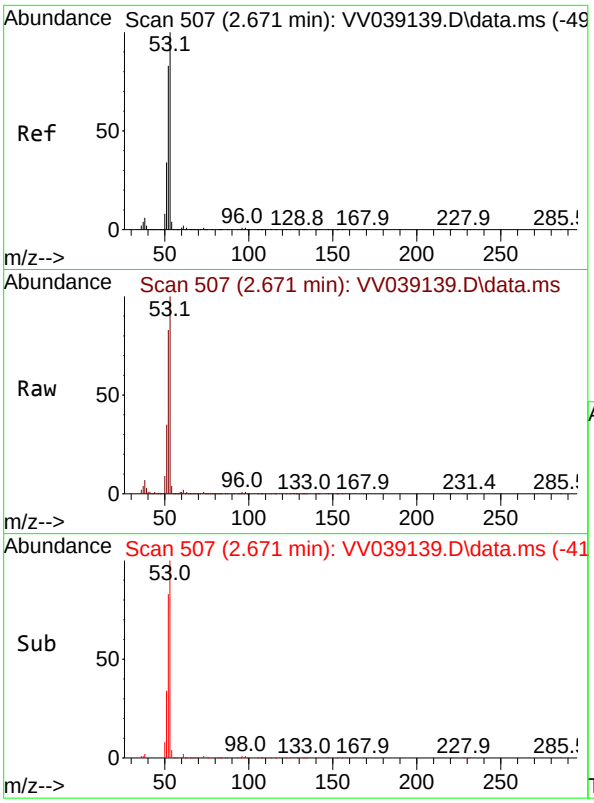




#14
Allyl chloride
Concen: 46.154 ug/l
RT: 2.355 min Scan# 409
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 41 Resp: 700342

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 63.8 | 51.0 | 76.6 |
| 76 | 35.3 | 28.2 | 42.4 |



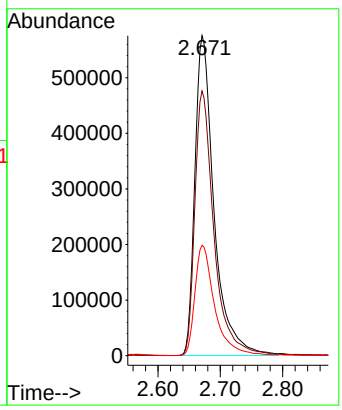


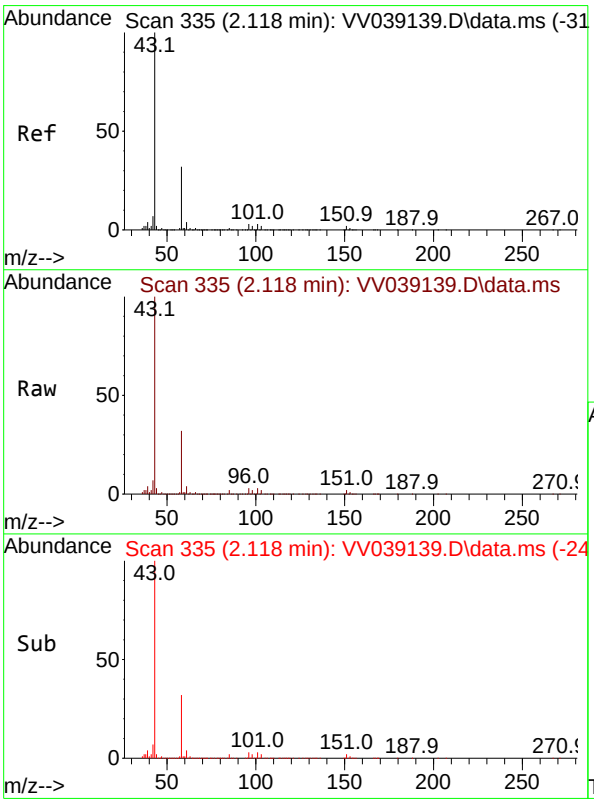

#15
Acrylonitrile
Concen: 222.439 ug/l
RT: 2.671 min Scan# 5
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 53 Resp: 1228907

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.6 | 66.1 | 99.1 |
| 51 | 35.6 | 28.5 | 42.7 |

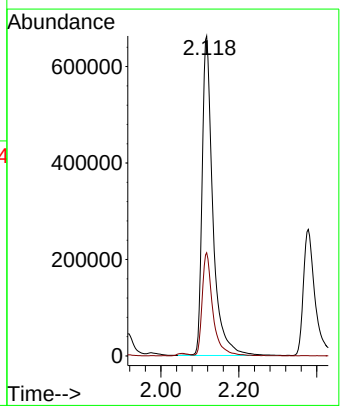


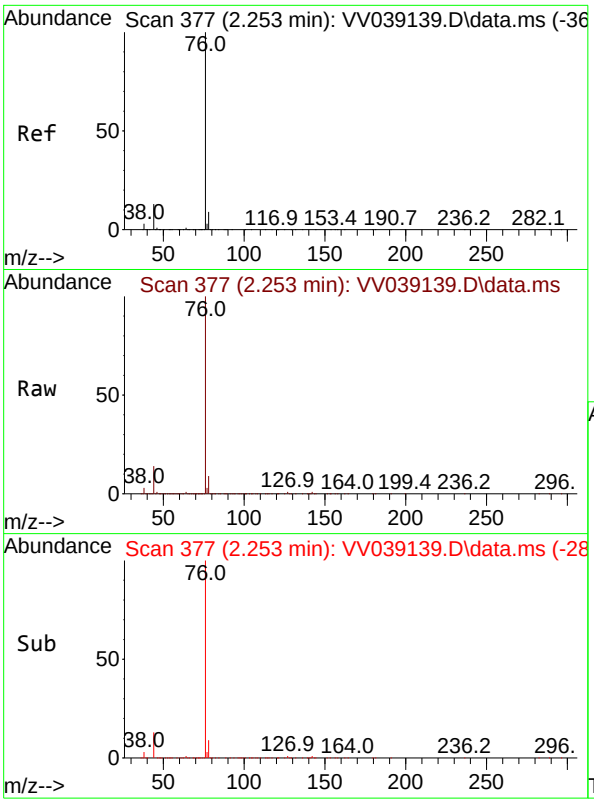




#16
Acetone
Concen: 251.263 ug/l
RT: 2.118 min Scan# 335
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 43 Resp: 1265424

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.2 | 25.8 | 38.6 |



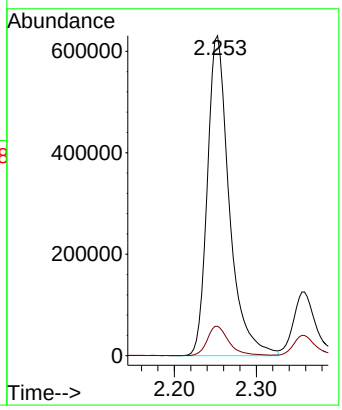


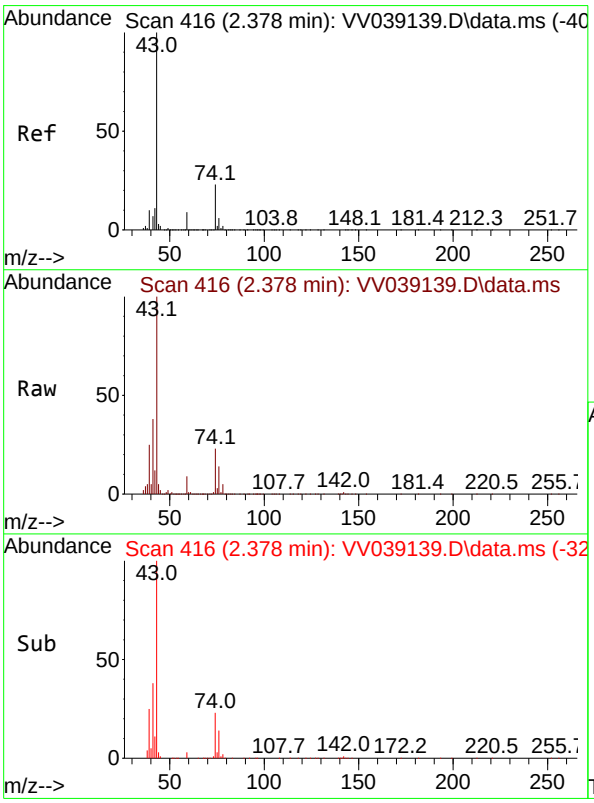

#17
Carbon Disulfide
Concen: 45.126 ug/l
RT: 2.253 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 76 Resp: 1172348

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.2 | 7.4 | 11.0 |

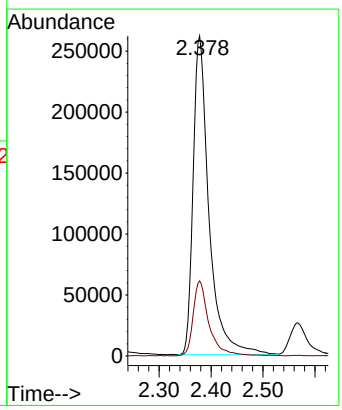


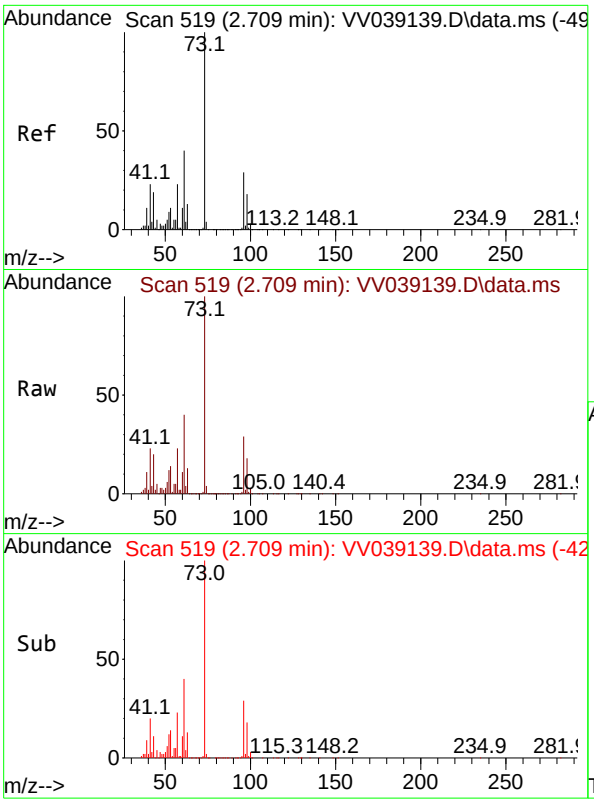




#18
Methyl Acetate
Concen: 45.827 ug/l
RT: 2.378 min Scan# 416
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 43 Resp: 553676

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 23.2 | 18.6 | 27.8 |



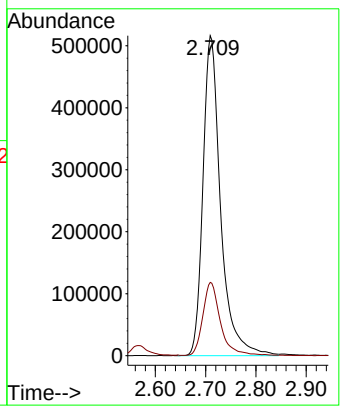


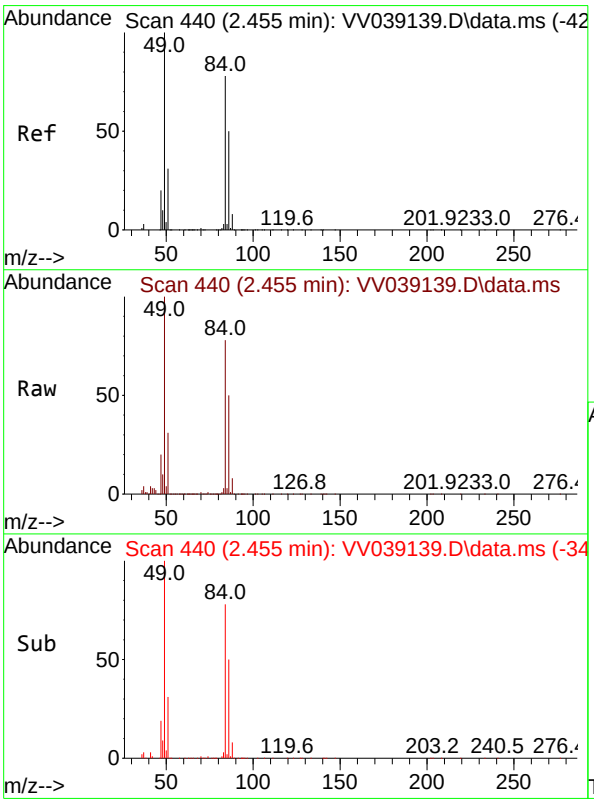

#19
Methyl tert-butyl Ether
Concen: 46.476 ug/l
RT: 2.709 min Scan# 5
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 73 Resp: 1258060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.8 | 18.2 | 27.4 |

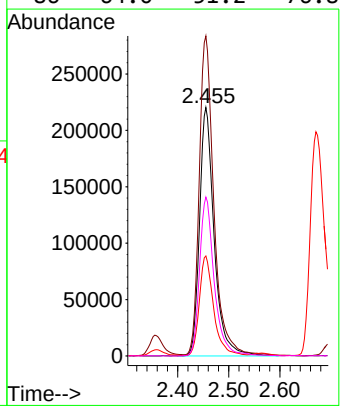


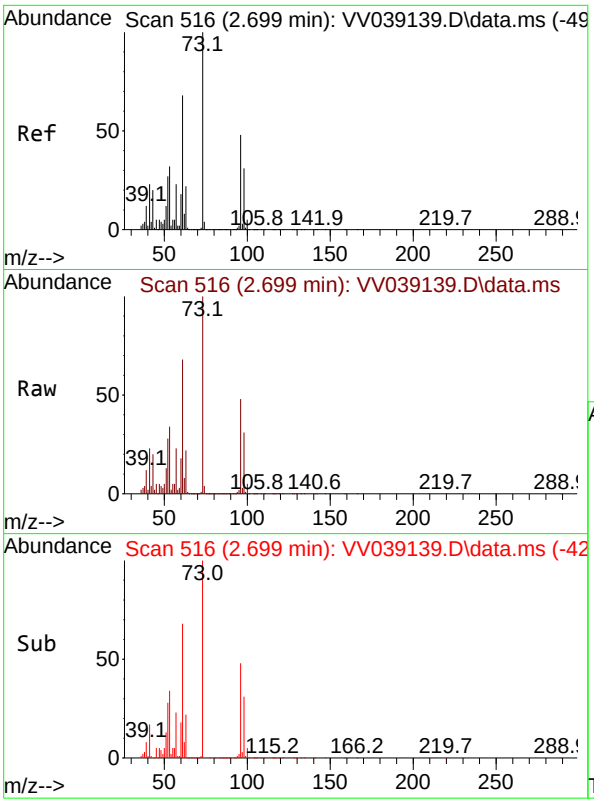




#20
Methylene Chloride
Concen: 49.828 ug/l
RT: 2.455 min Scan# 440
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 84 Resp: 439142

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 128.5 | 102.8 | 154.2 |
| 51 | 39.9 | 31.9 | 47.9 |
| 86 | 64.0 | 51.2 | 76.8 |



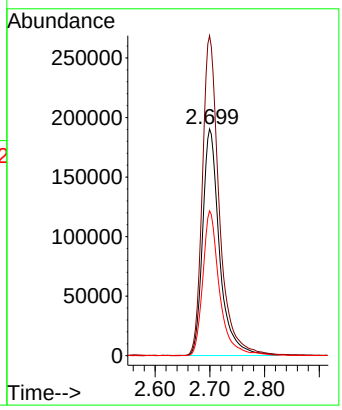


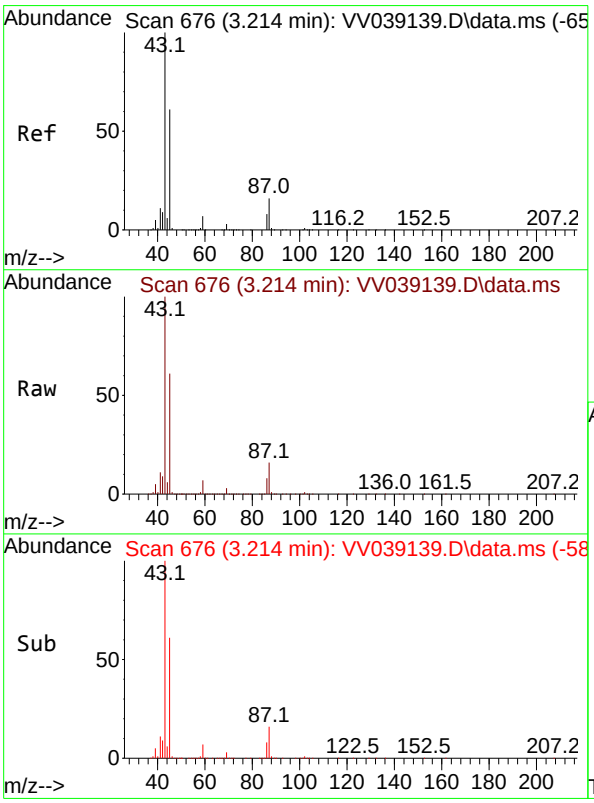

#21
trans-1,2-Dichloroethene
Concen: 45.109 ug/l
RT: 2.699 min Scan# 5
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 96 Resp: 407938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 141.0 | 112.8 | 169.2 |
| 98 | 63.9 | 51.1 | 76.7 |

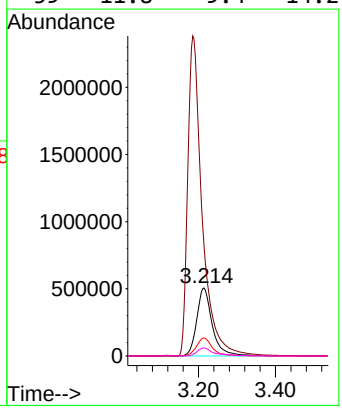


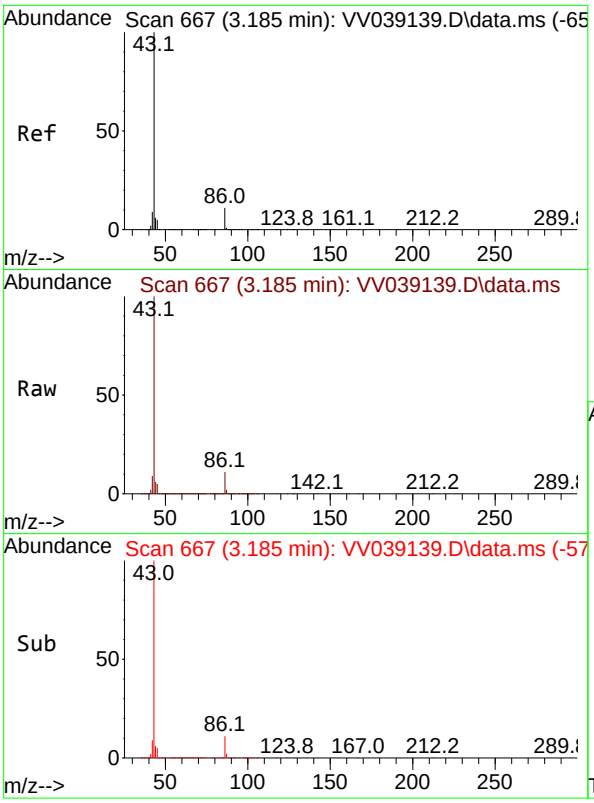




#22
Diisopropyl ether
Concen: 48.895 ug/l
RT: 3.214 min Scan# 676
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 45 Resp: 1419527

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 163.6 | 130.9 | 196.3 |
| 87 | 26.4 | 21.1 | 31.7 |
| 59 | 11.8 | 9.4 | 14.2 |



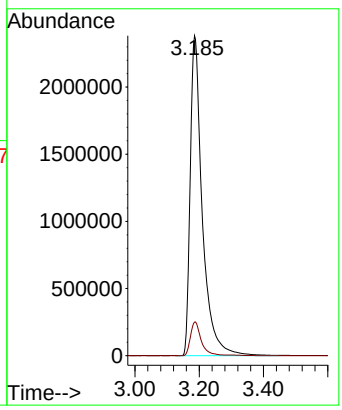


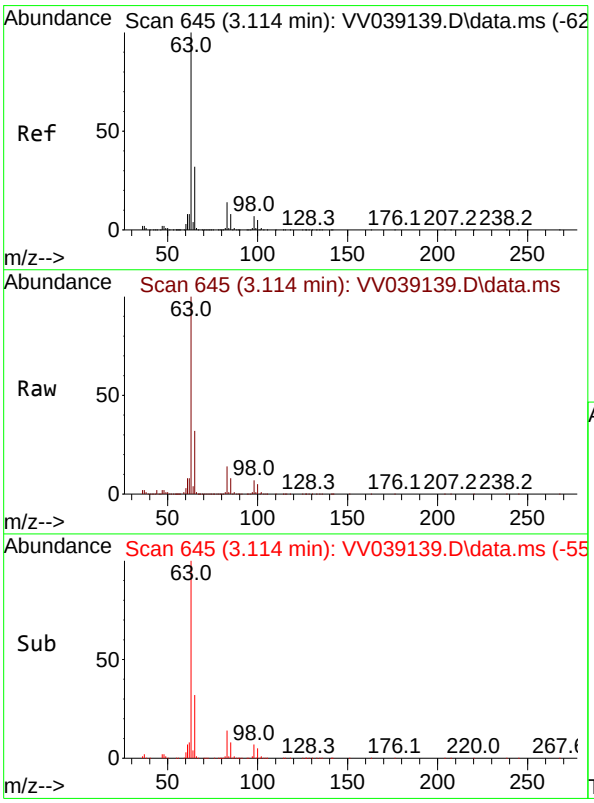

#23
Vinyl Acetate
Concen: 244.506 ug/l
RT: 3.185 min Scan# 6
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 43 Resp: 6209687

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.5 | 8.4 | 12.6 |

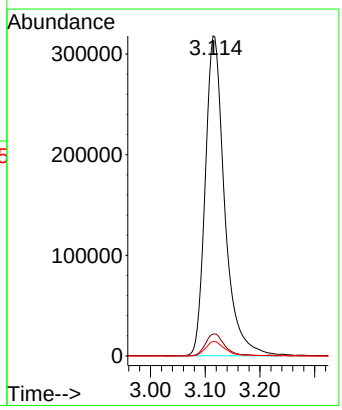


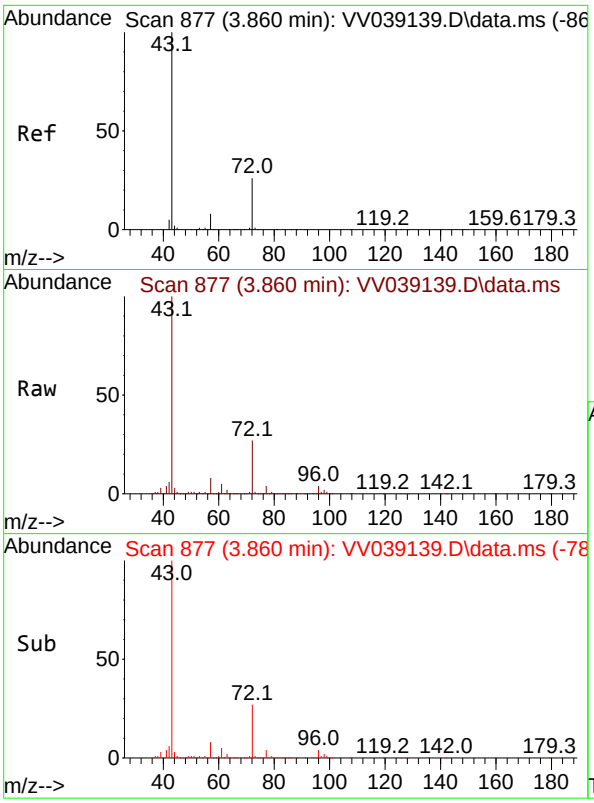




#24
1,1-Dichloroethane
Concen: 44.037 ug/l
RT: 3.114 min Scan# 645
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 63 Resp: 781832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.8 | 3.4 | 10.2 |
| 100 | 4.4 | 2.2 | 6.6 |



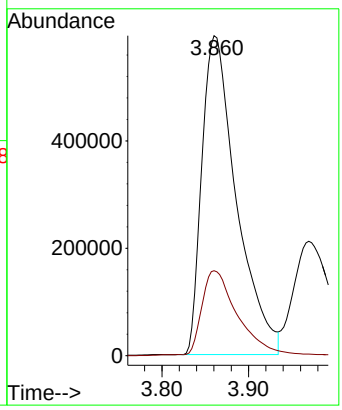


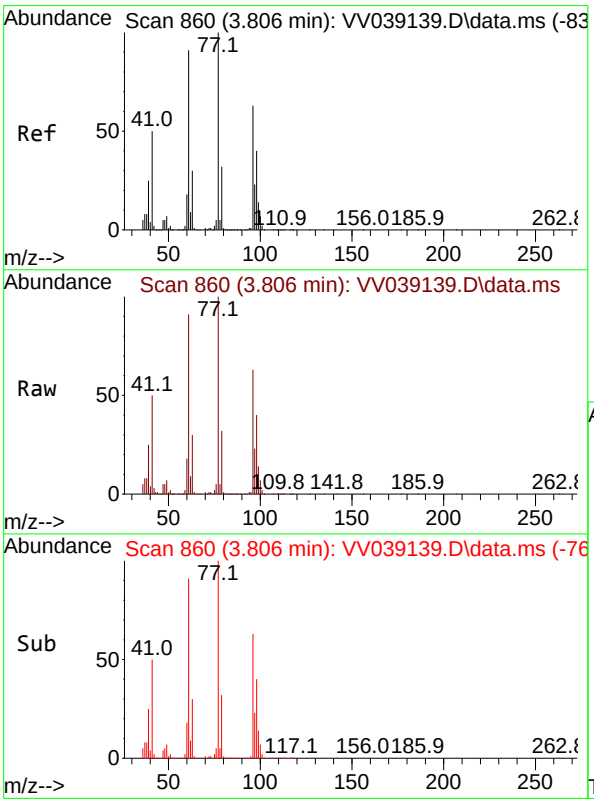

#25
2-Butanone
Concen: 257.105 ug/l
RT: 3.860 min Scan# 8
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 43 Resp: 1650213

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 26.3 | 21.0 | 31.6 |

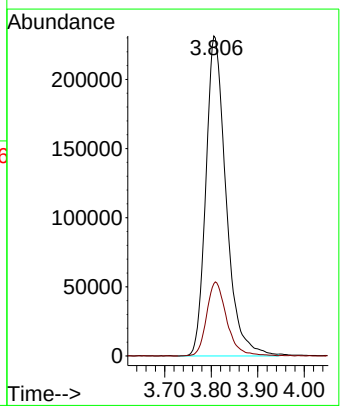


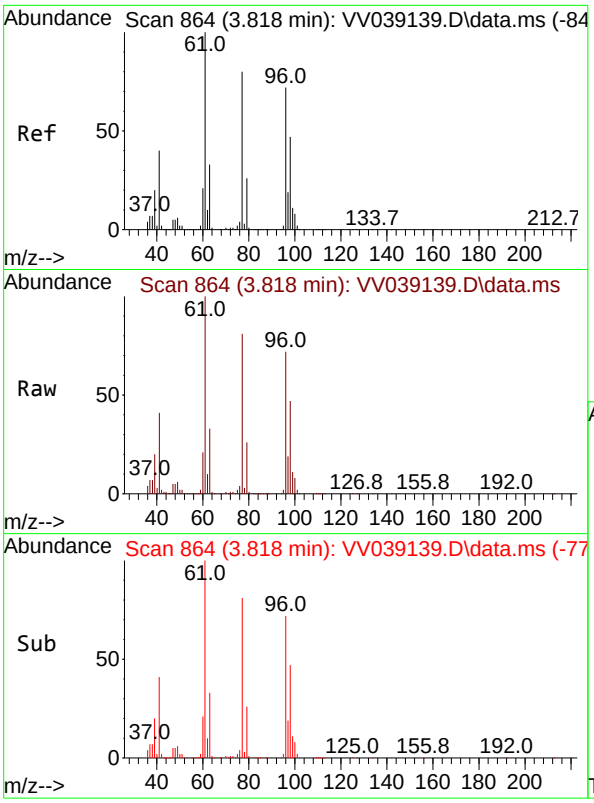




#26
2,2-Dichloropropane
Concen: 44.534 ug/l
RT: 3.806 min Scan# 860
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 77 Resp: 698283

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.1 | 11.6 | 34.7 |



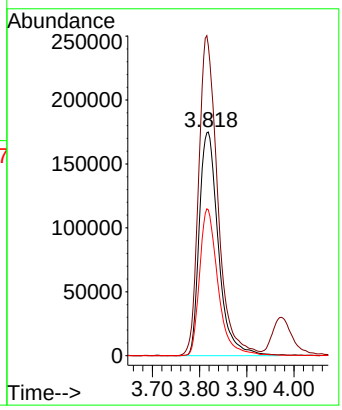


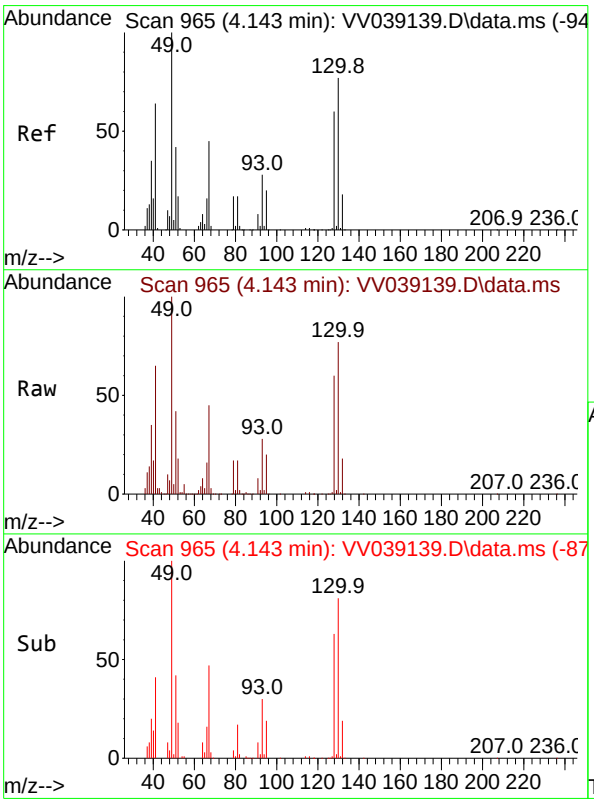

#27
cis-1,2-Dichloroethene
Concen: 49.026 ug/l
RT: 3.818 min Scan# 8
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 96 Resp: 488972

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 143.2 | 0.0 | 286.4 |
| 98 | 63.3 | 0.0 | 126.6 |

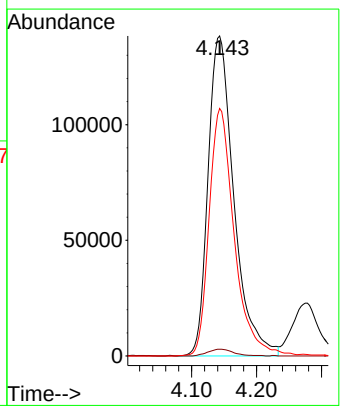


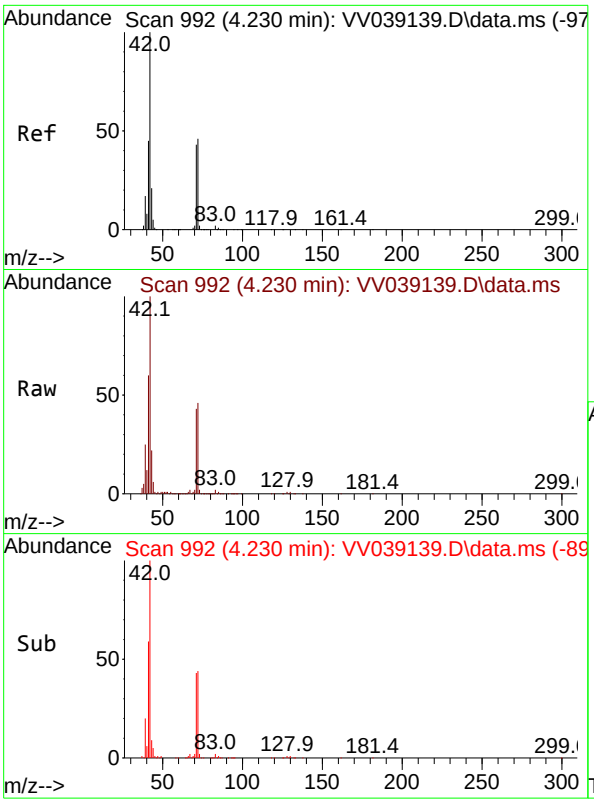




#28
Bromochloromethane
Concen: 48.820 ug/l
RT: 4.143 min Scan# 965
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 49 Resp: 382640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.1 | 0.0 | 4.2 |
| 130 | 75.2 | 60.2 | 90.2 |



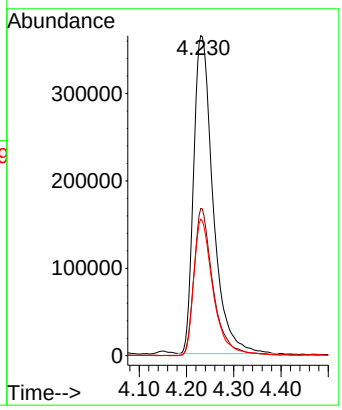


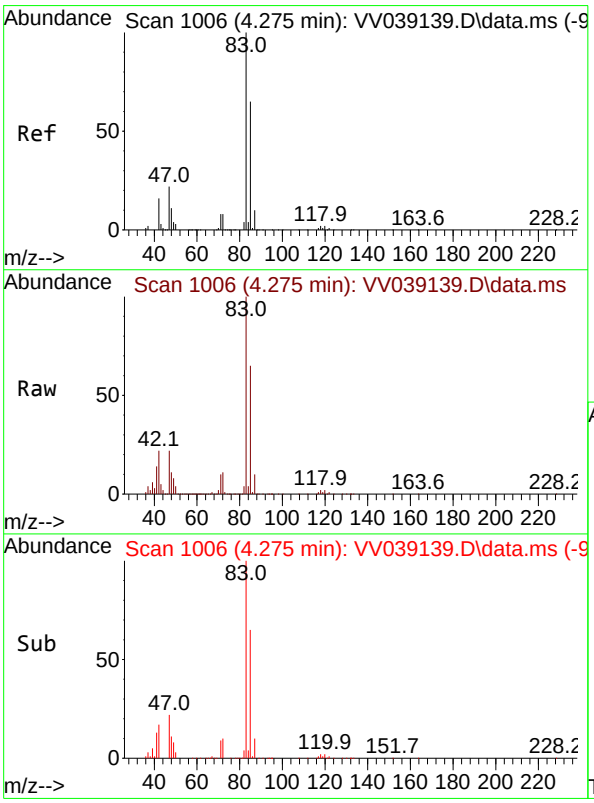

#29
Tetrahydrofuran
Concen: 254.258 ug/l
RT: 4.230 min Scan# 9
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 42 Resp: 1039169

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 45.4 | 36.3 | 54.5 |
| 71 | 42.9 | 34.3 | 51.5 |

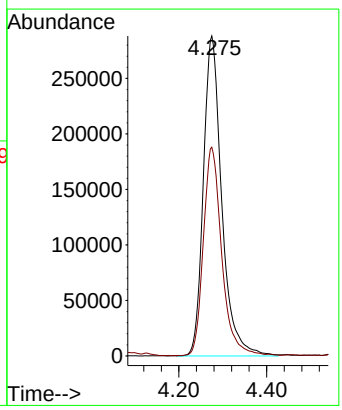


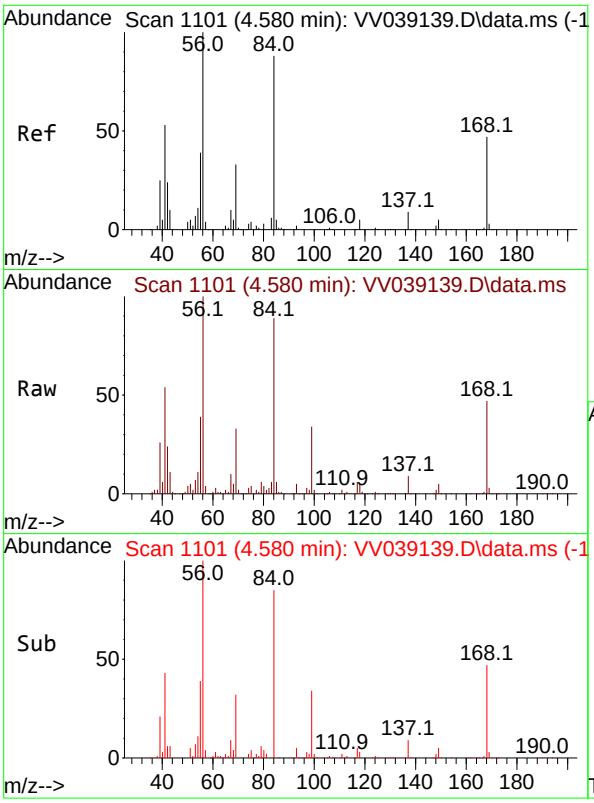




#30
Chloroform
Concen: 45.268 ug/l
RT: 4.275 min Scan# 1006
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 83 Resp: 839217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.1 | 52.1 | 78.1 |



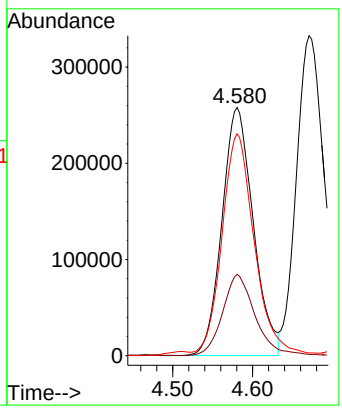


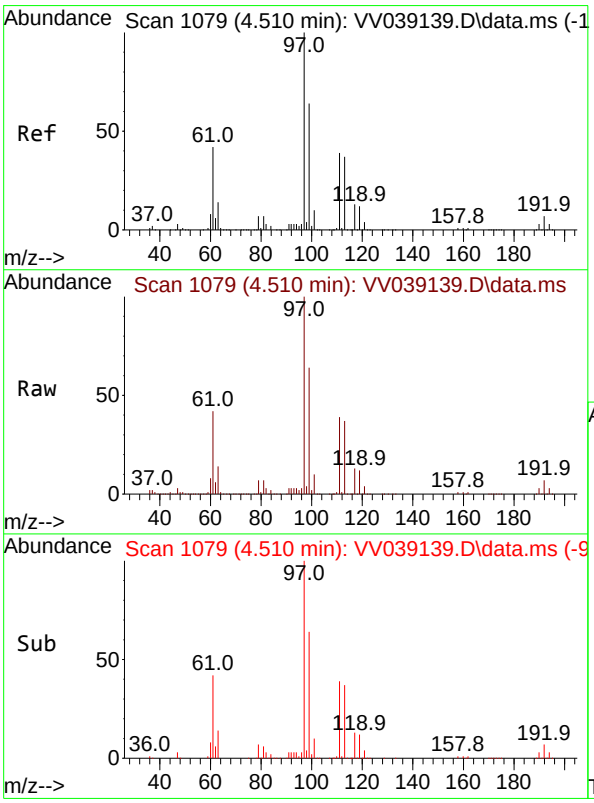

#31
Cyclohexane
Concen: 48.232 ug/l
RT: 4.580 min Scan# 11
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 56 Resp: 701482

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 32.7 | 26.2 | 39.2 |
| 84 | 87.9 | 70.3 | 105.5 |

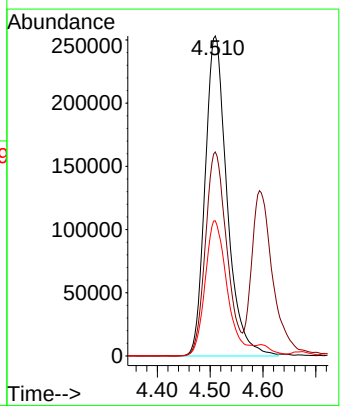


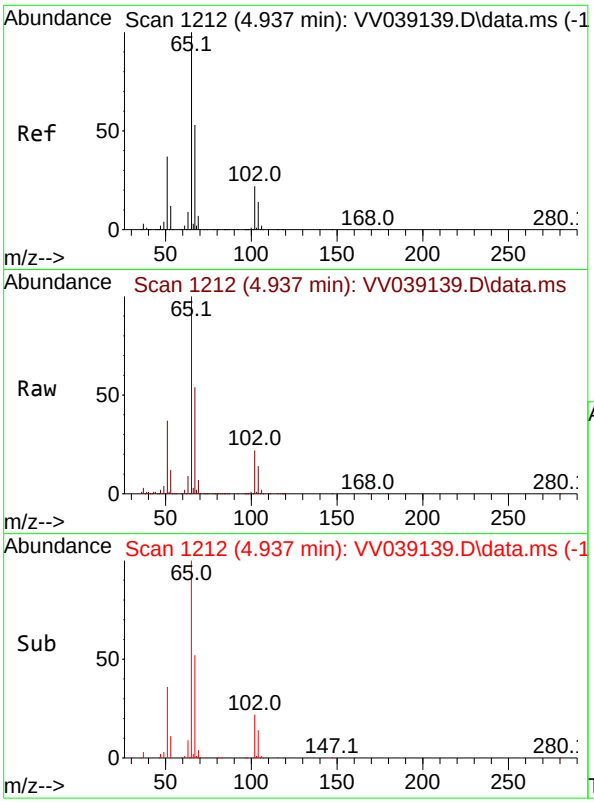




#32
1,1,1-Trichloroethane
Concen: 45.547 ug/l
RT: 4.510 min Scan# 1079
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 97 Resp: 731030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 62.0 | 49.6 | 74.4 |
| 61 | 43.1 | 34.5 | 51.7 |



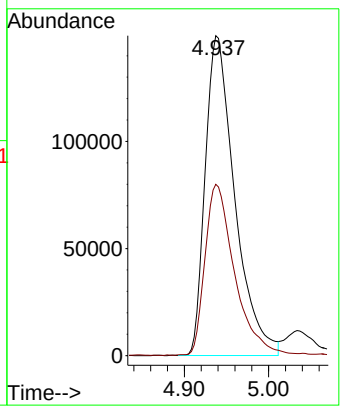


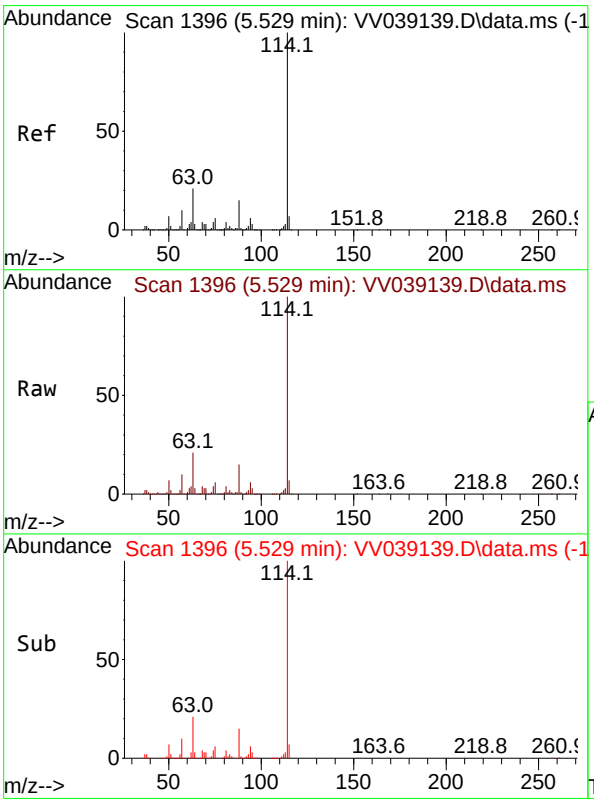

#33
1,2-Dichloroethane-d4
Concen: 44.618 ug/l
RT: 4.937 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 65 Resp: 363821

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.5 | 0.0 | 107.0 |

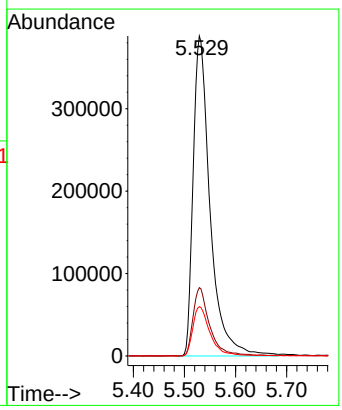


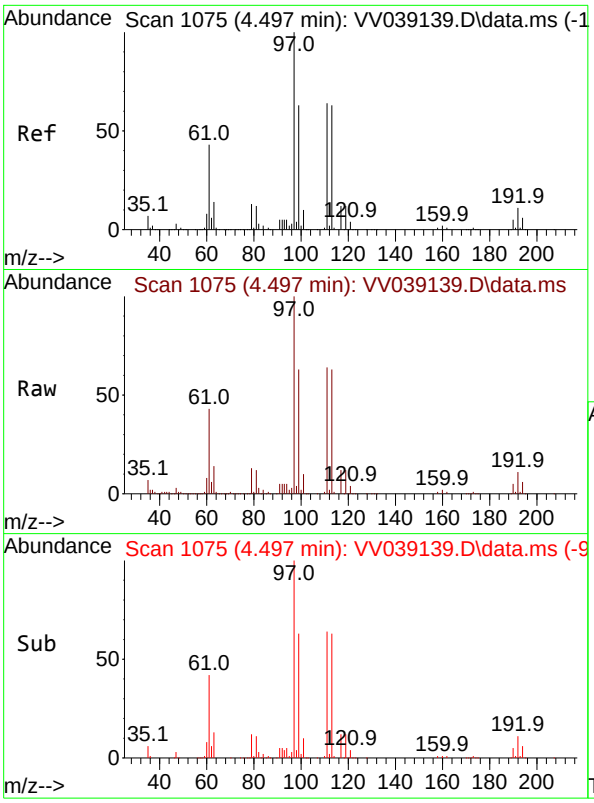




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.529 min Scan# 1396
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:114 Resp: 894173

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.3 | 0.0 | 42.6 |
| 88 | 15.4 | 0.0 | 30.8 |



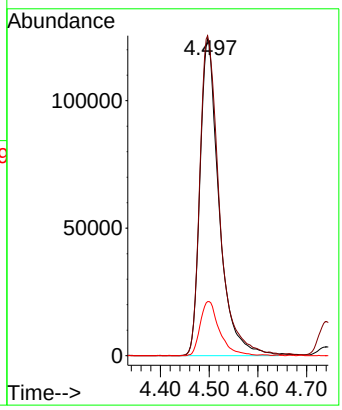


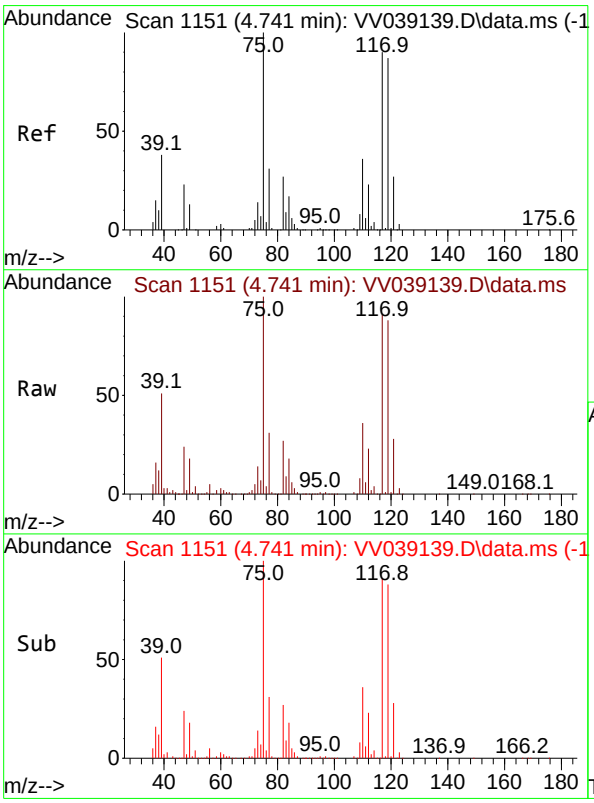

#35
Dibromofluoromethane
Concen: 46.935 ug/l
RT: 4.497 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion:113 Resp: 337386

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.0 | 82.4 | 123.6 |
| 192 | 17.3 | 13.8 | 20.8 |

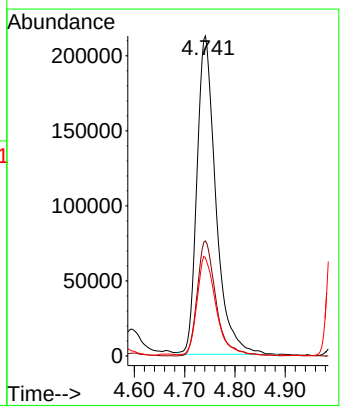


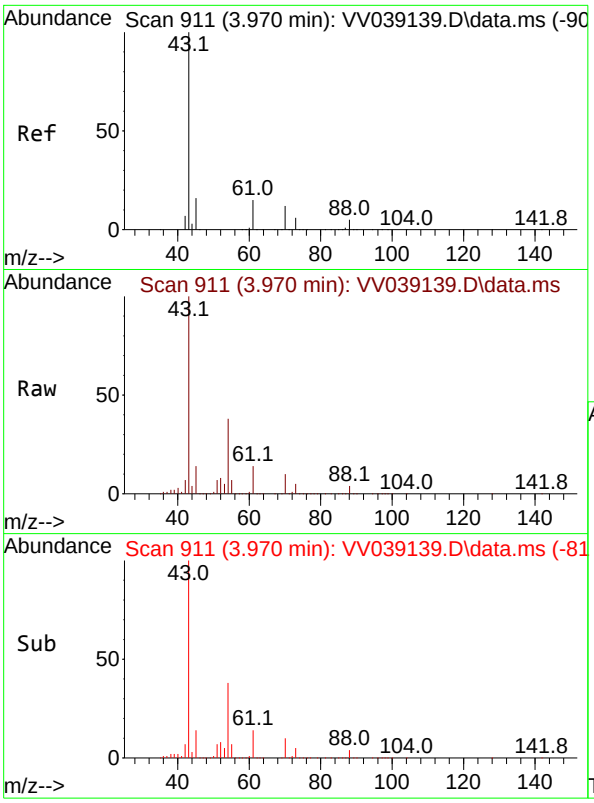




#36
1,1-Dichloropropene
Concen: 50.680 ug/l
RT: 4.741 min Scan# 1151
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 75 Resp: 554798

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 36.1 | 18.1 | 54.1 |
| 77 | 31.0 | 24.8 | 37.2 |



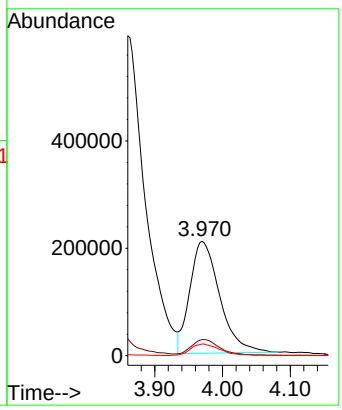


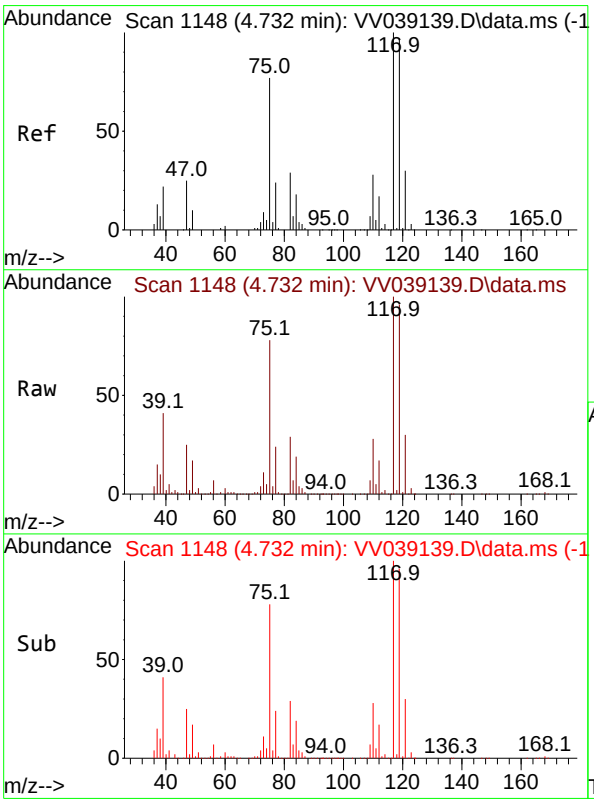

#37
Ethyl Acetate
Concen: 47.519 ug/l
RT: 3.970 min Scan# 91
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 43 Resp: 638131

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 12.9 | 10.3 | 15.5 |
| 70 | 10.0 | 8.0 | 12.0 |

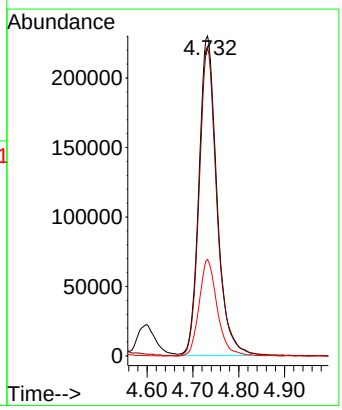


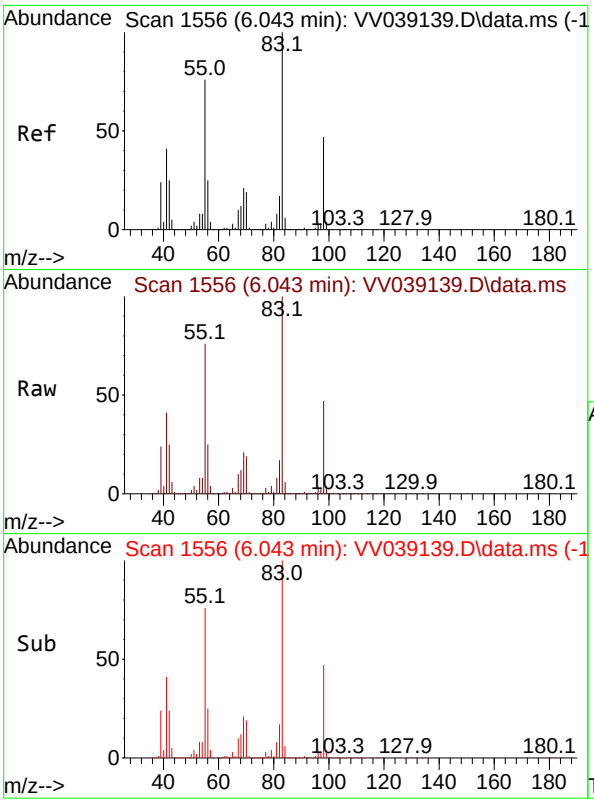




#38
Carbon Tetrachloride
Concen: 47.666 ug/l
RT: 4.732 min Scan# 1148
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:117 Resp: 628516

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 96.5 | 77.2 | 115.8 |
| 121 | 30.2 | 24.2 | 36.2 |



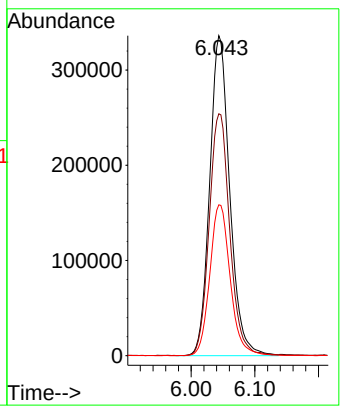


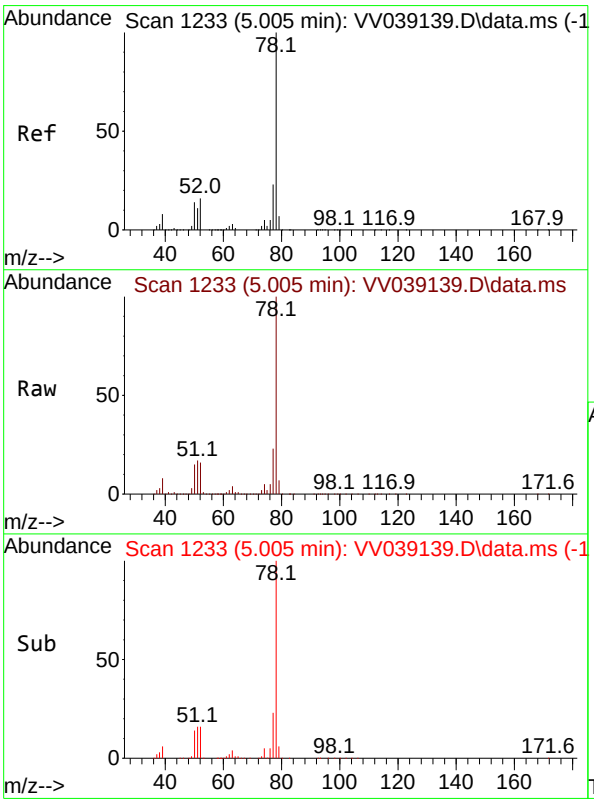

#39
Methylcyclohexane
Concen: 56.095 ug/l
RT: 6.043 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 83 Resp: 736231

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 75.6 | 60.5 | 90.7 |
| 98 | 47.2 | 37.8 | 56.6 |

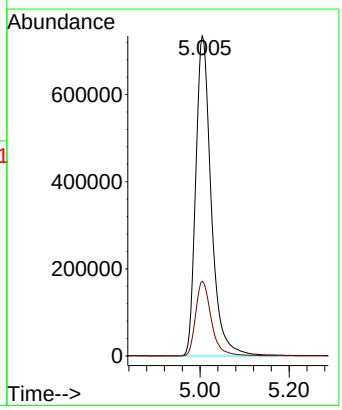


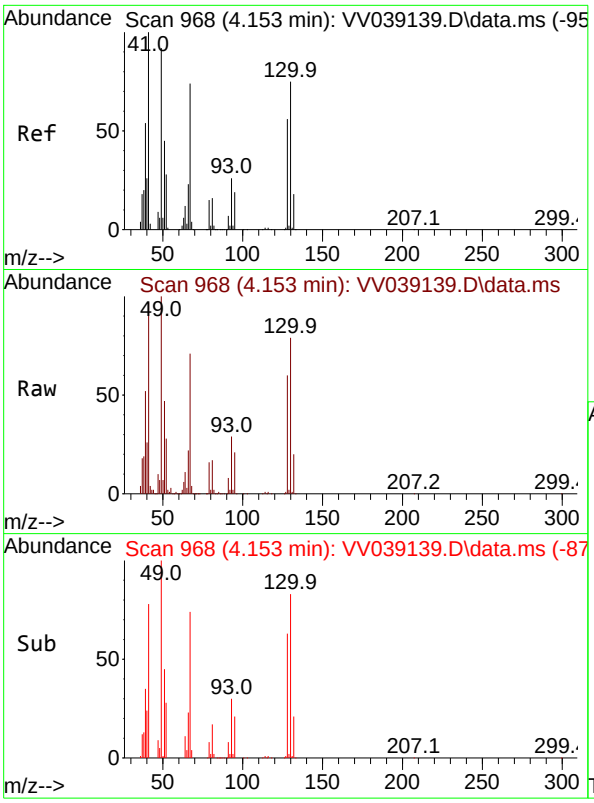




#40
Benzene
Concen: 50.276 ug/l
RT: 5.005 min Scan# 1233
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 78 Resp: 1779301

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.4 | 18.7 | 28.1 |



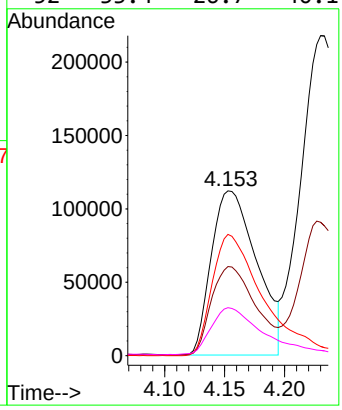


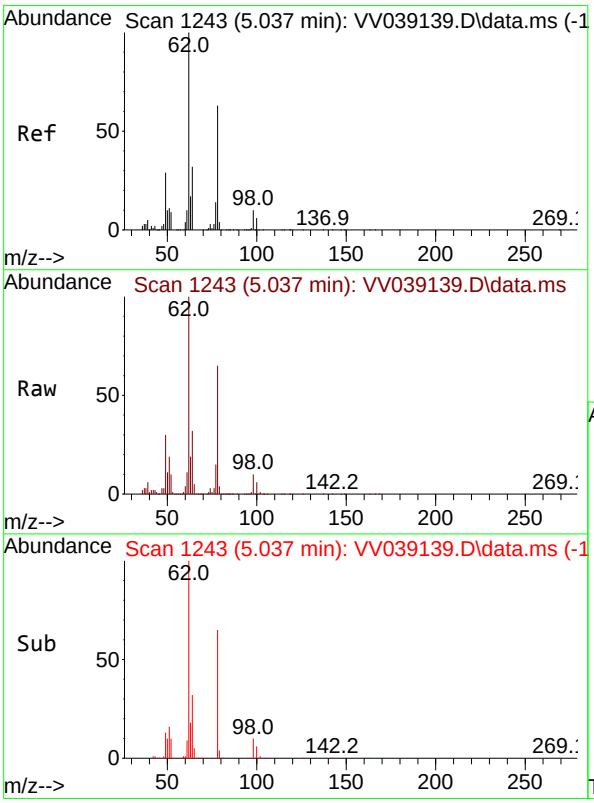

#41
Methacrylonitrile
Concen: 49.541 ug/l
RT: 4.153 min Scan# 9
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 41 Resp: 295316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 52.7 | 42.2 | 63.2 |
| 67 | 84.9 | 67.9 | 101.9 |
| 52 | 33.4 | 26.7 | 40.1 |

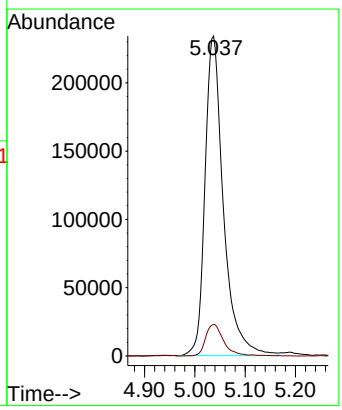


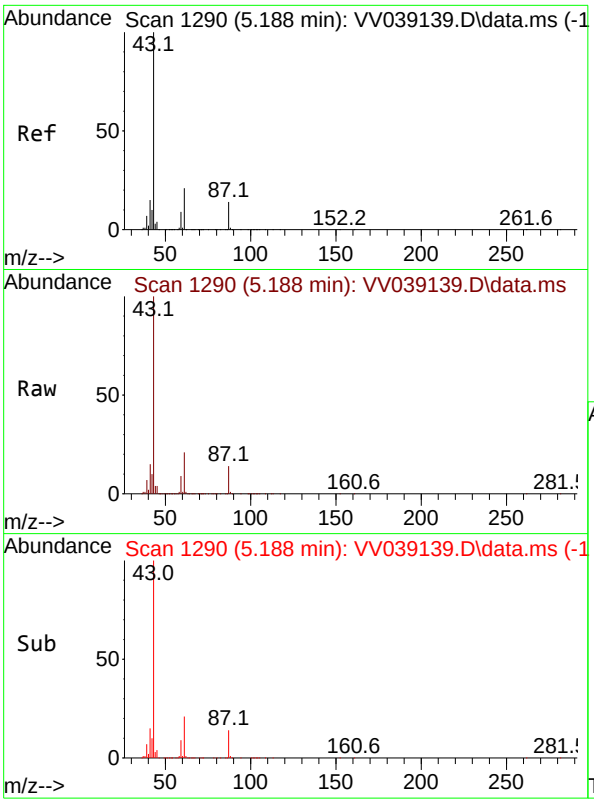




#42
1,2-Dichloroethane
Concen: 48.000 ug/l
RT: 5.037 min Scan# 1243
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 62 Resp: 595216

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.6 | 0.0 | 19.2 |



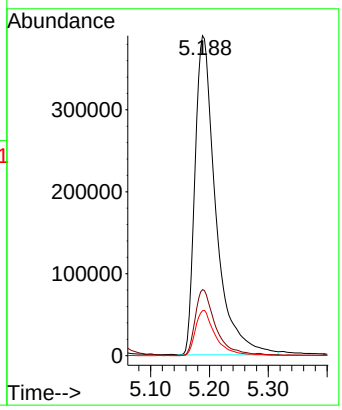


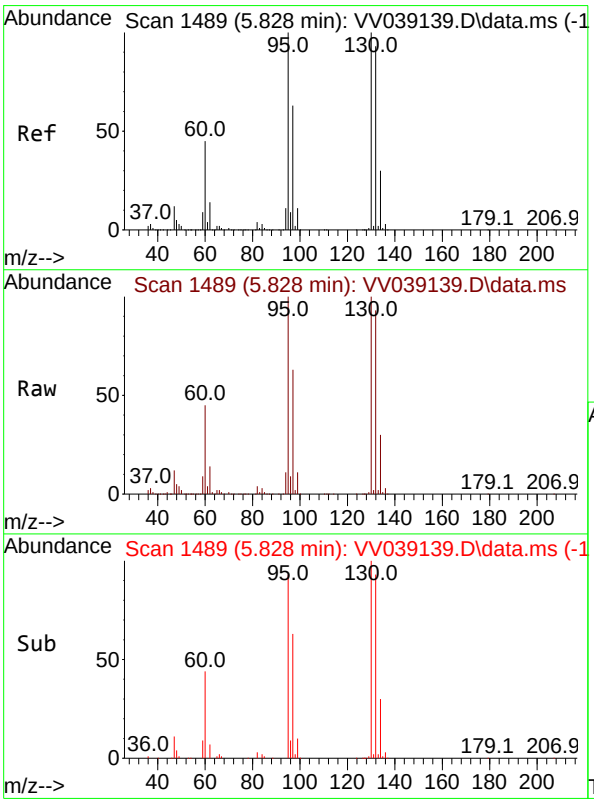

#43
Isopropyl Acetate
Concen: 51.691 ug/l
RT: 5.188 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 43 Resp: 956288

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 19.9 | 15.9 | 23.9 |
| 87 | 13.8 | 11.0 | 16.6 |

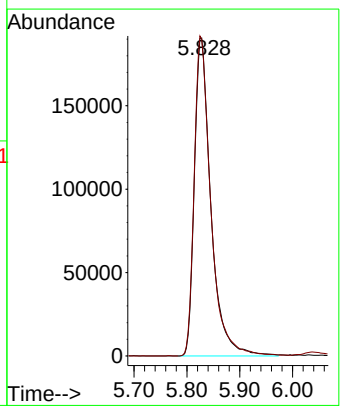


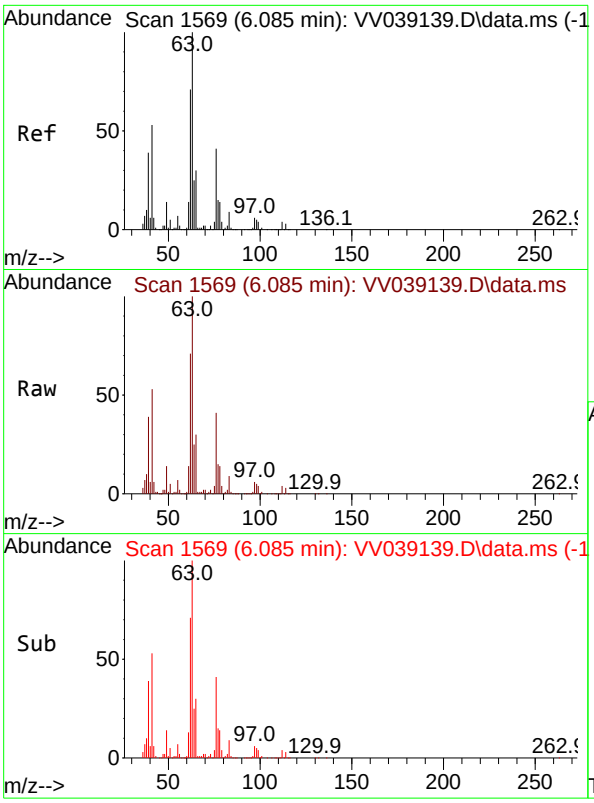




#44
Trichloroethene
Concen: 50.715 ug/l
RT: 5.828 min Scan# 1489
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:130 Resp: 414171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 99.6 | 0.0 | 199.2 |



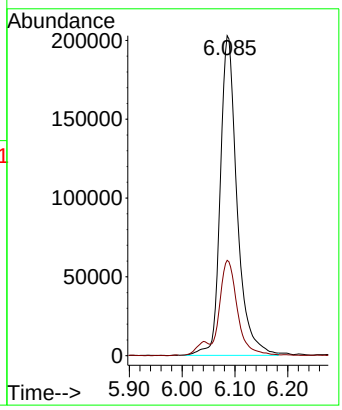


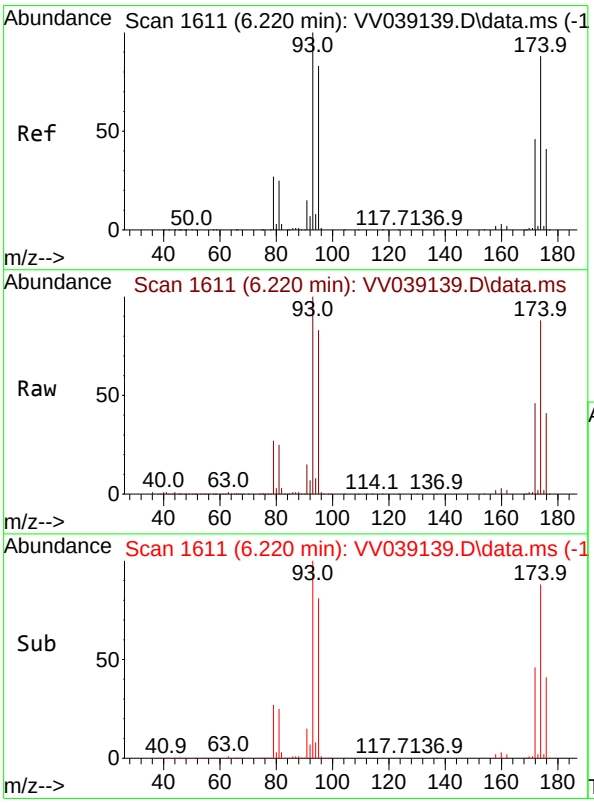

#45
1,2-Dichloropropane
Concen: 51.014 ug/l
RT: 6.085 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 63 Resp: 448750

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 29.6 | 23.7 | 35.5 |

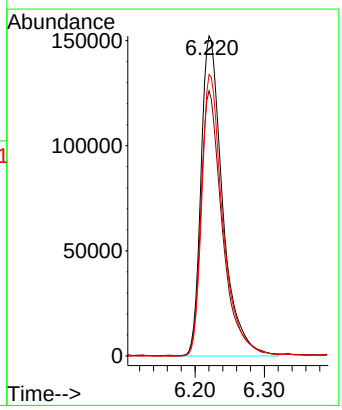


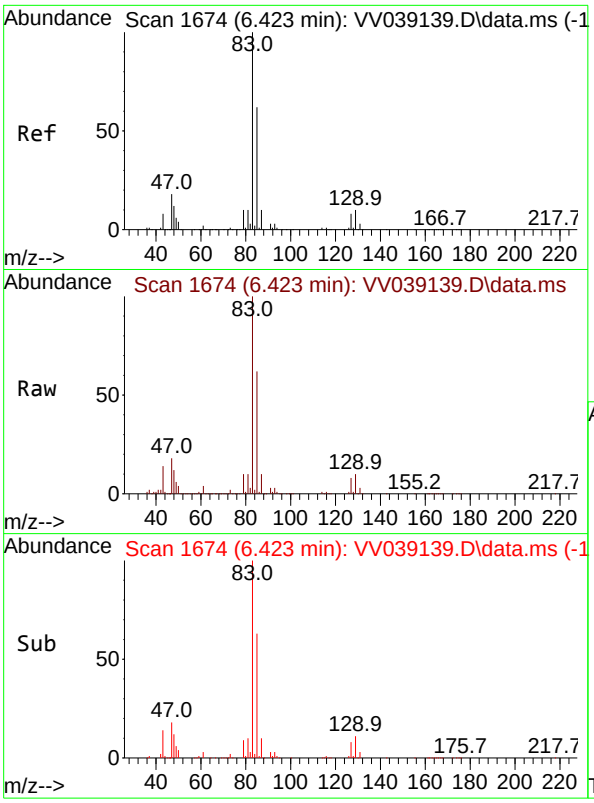




#46
Dibromomethane
Concen: 48.876 ug/l
RT: 6.220 min Scan# 1611
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 93 Resp: 329073

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 81.9 | 65.5 | 98.3 |
| 174 | 86.2 | 69.0 | 103.4 |



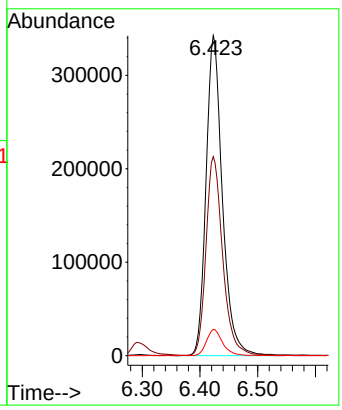


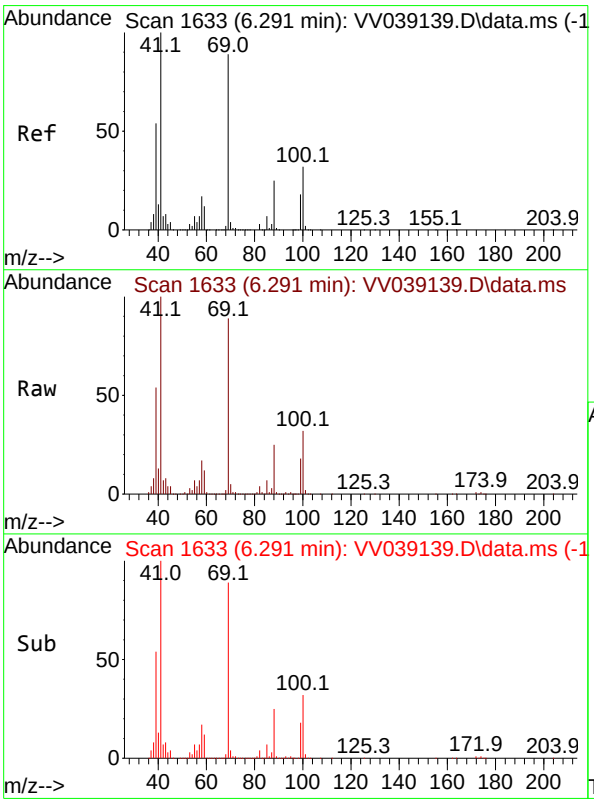

#47
Bromodichloromethane
Concen: 48.398 ug/l
RT: 6.423 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 83 Resp: 673646

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.1 | 49.7 | 74.5 |
| 127 | 8.2 | 6.6 | 9.8 |

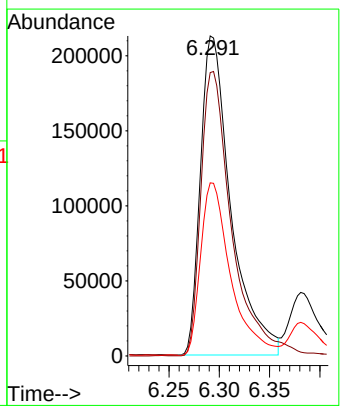


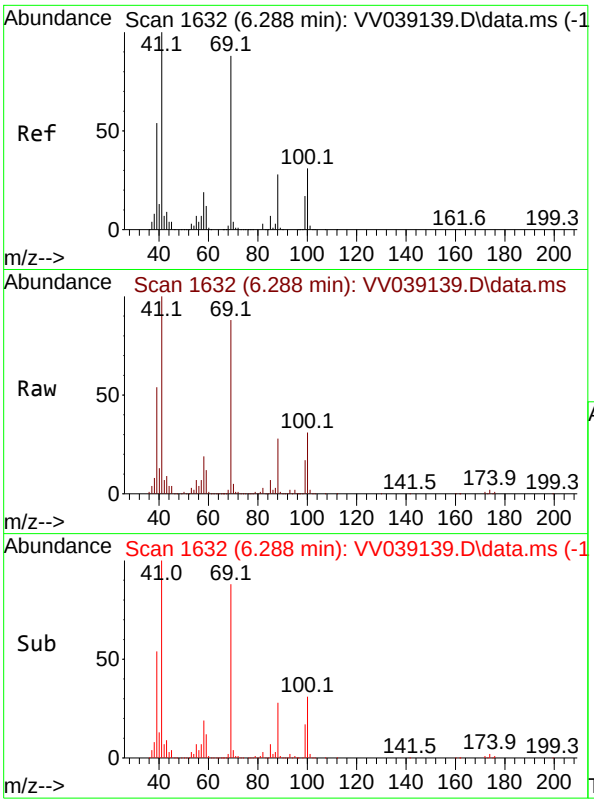




#48
Methyl methacrylate
Concen: 53.193 ug/l
RT: 6.291 min Scan# 1633
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 41 Resp: 450230

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 90.5 | 72.4 | 108.6 |
| 39 | 53.1 | 42.5 | 63.7 |



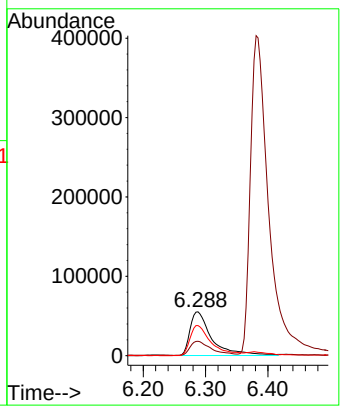


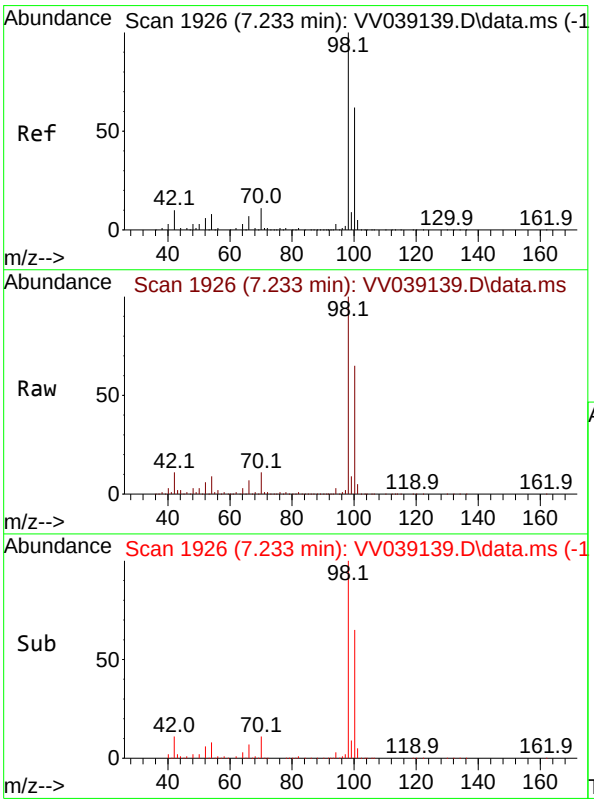

#49
1,4-Dioxane
Concen: 1006.069 ug/l
RT: 6.288 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 88 Resp: 133834

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 31.4 | 25.1 | 37.7 |
| 58 | 67.0 | 53.6 | 80.4 |

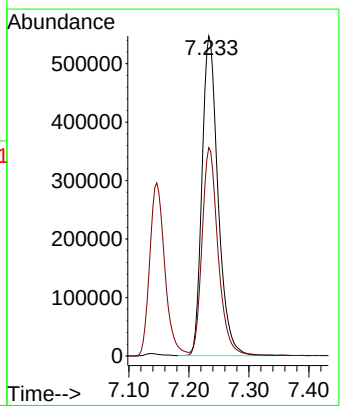


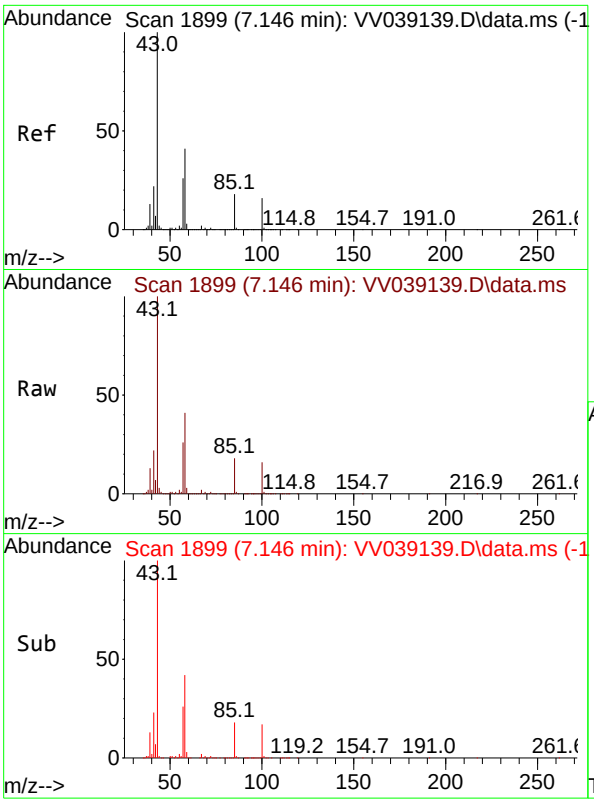




#50
Toluene-d8
Concen: 48.130 ug/l
RT: 7.233 min Scan# 1926
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 98 Resp: 1016135

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.2 | 52.2 | 78.2 |



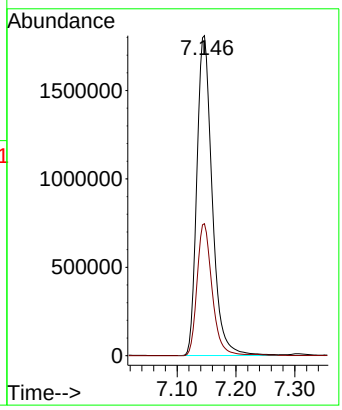


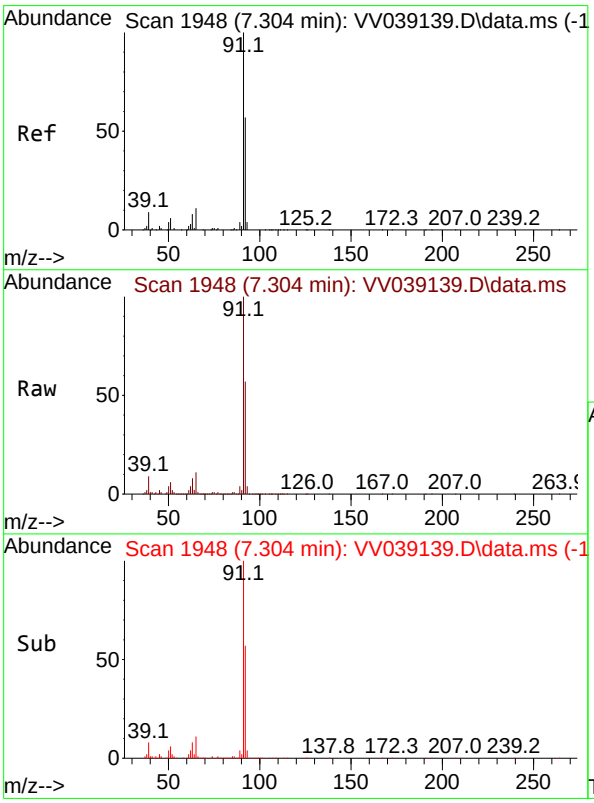

#51
4-Methyl-2-Pentanone
Concen: 276.753 ug/l
RT: 7.146 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 43 Resp: 3273840

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 40.4 | 32.3 | 48.5 |

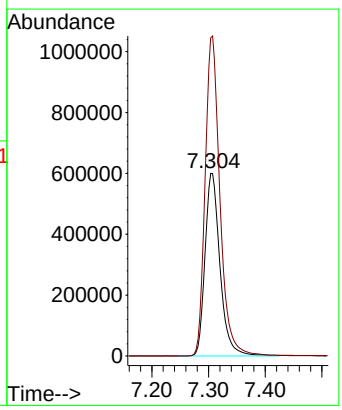


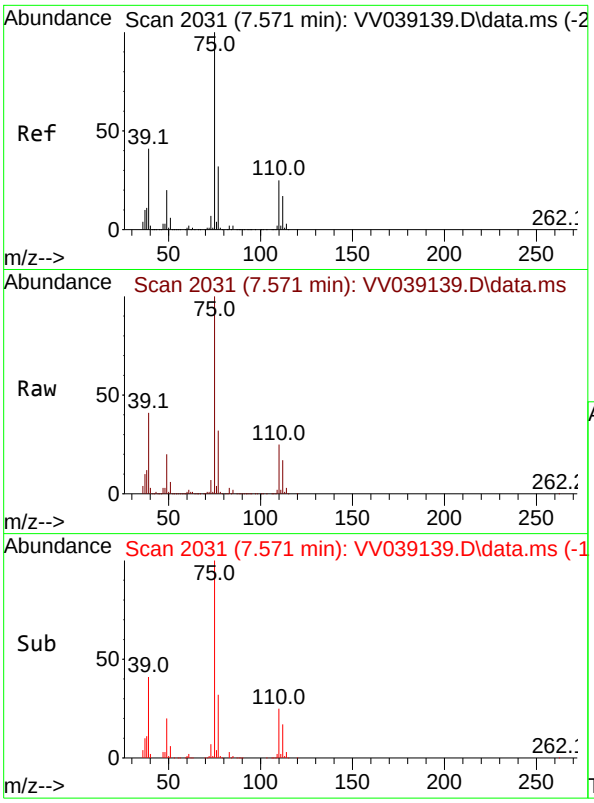




#52
Toluene
Concen: 53.574 ug/l
RT: 7.304 min Scan# 1948
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 92 Resp: 1099325

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 174.0 | 139.2 | 208.8 |



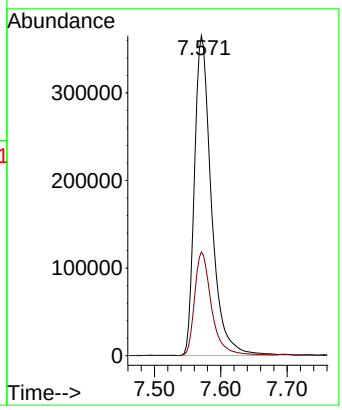


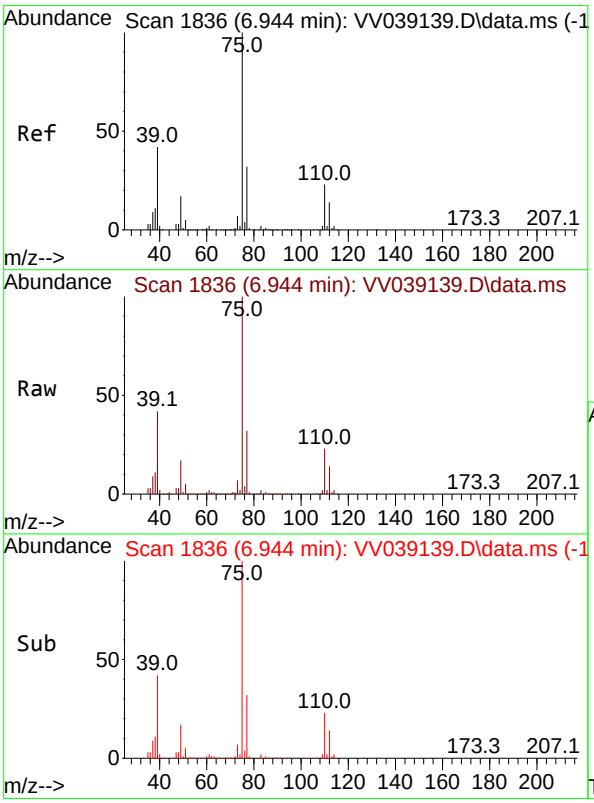

#53
t-1,3-Dichloropropene
Concen: 53.666 ug/l
RT: 7.571 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 75 Resp: 650976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.4 | 25.9 | 38.9 |

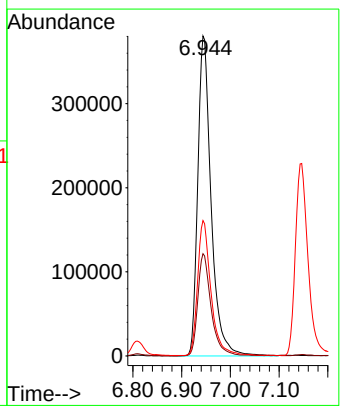


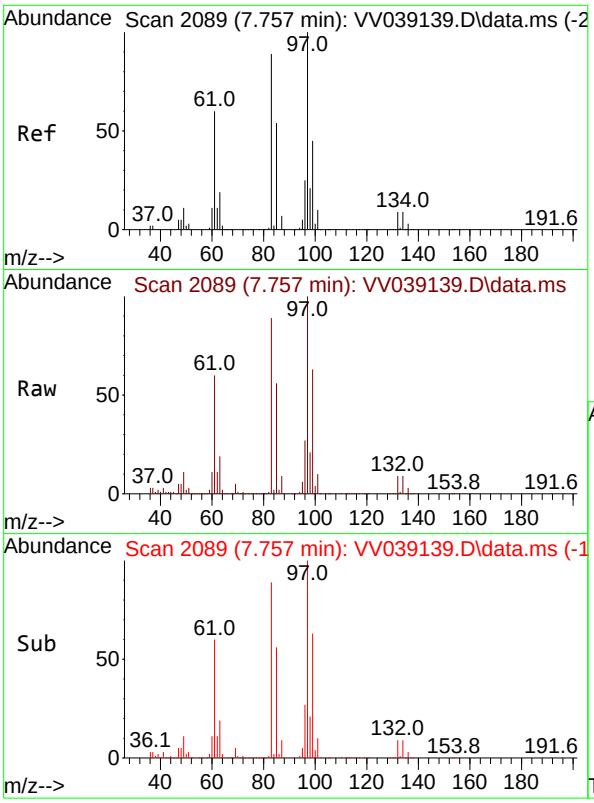




#54
cis-1,3-Dichloropropene
Concen: 54.142 ug/l
RT: 6.944 min Scan# 1836
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 75 Resp: 725015

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.9 | 25.5 | 38.3 |
| 39 | 42.2 | 33.8 | 50.6 |



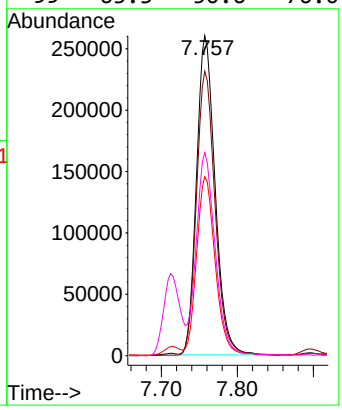


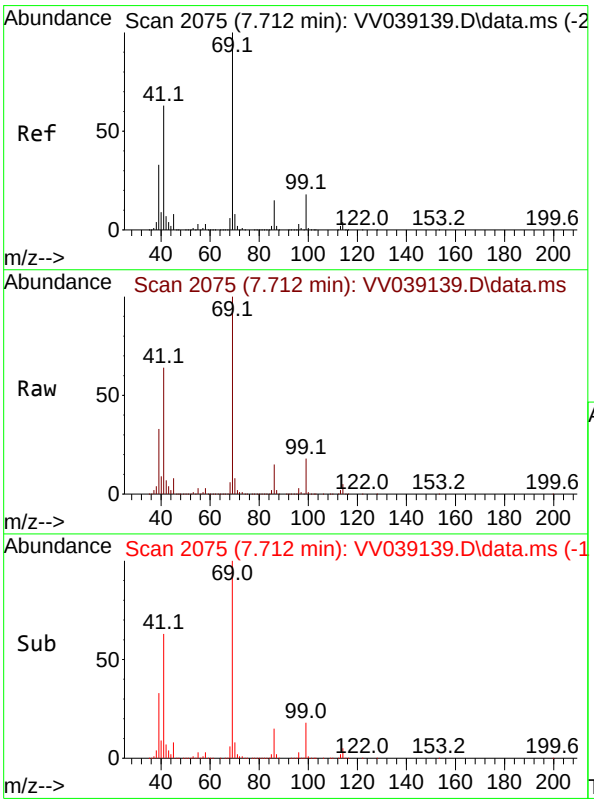

#55
1,1,2-Trichloroethane
Concen: 48.020 ug/l
RT: 7.757 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 97 Resp: 441822

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 88.9 | 71.1 | 106.7 |
| 85 | 55.8 | 44.6 | 67.0 |
| 99 | 63.3 | 50.6 | 76.0 |

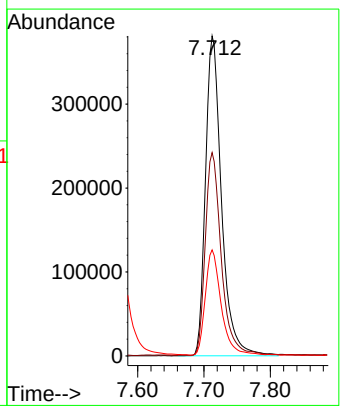


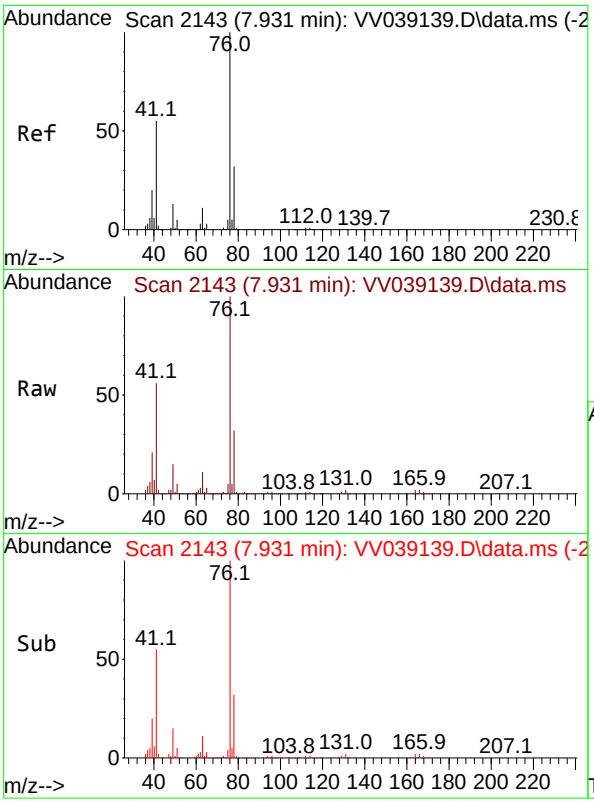




#56
Ethyl methacrylate
Concen: 58.632 ug/l
RT: 7.712 min Scan# 2075
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 69 Resp: 640636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 63.4 | 50.7 | 76.1 |
| 39 | 32.5 | 26.0 | 39.0 |



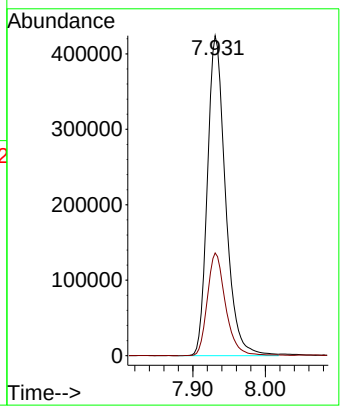


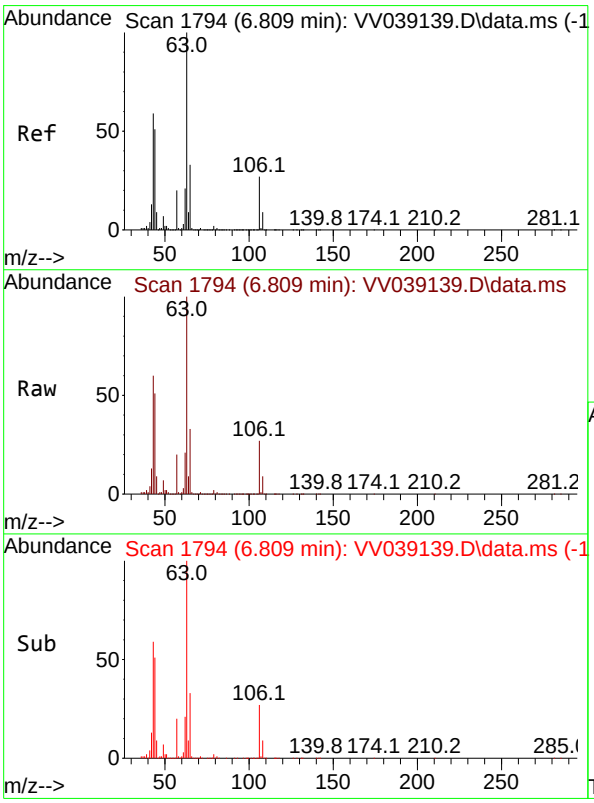

#57
1,3-Dichloropropane
Concen: 50.505 ug/l
RT: 7.931 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 76 Resp: 733341

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.6 | 26.1 | 39.1 |

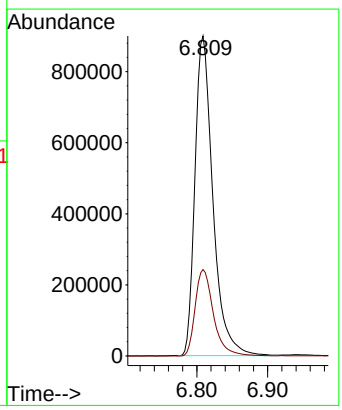


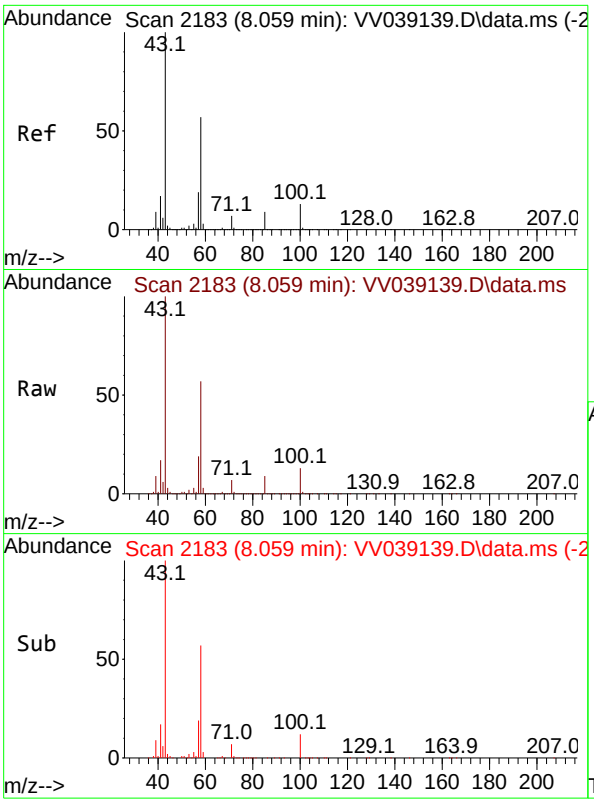




#58
2-Chloroethyl Vinyl ether
Concen: 255.700 ug/l
RT: 6.809 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 63 Resp: 1579407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 27.6 | 22.1 | 33.1 |



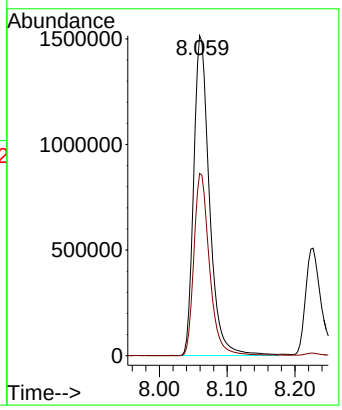


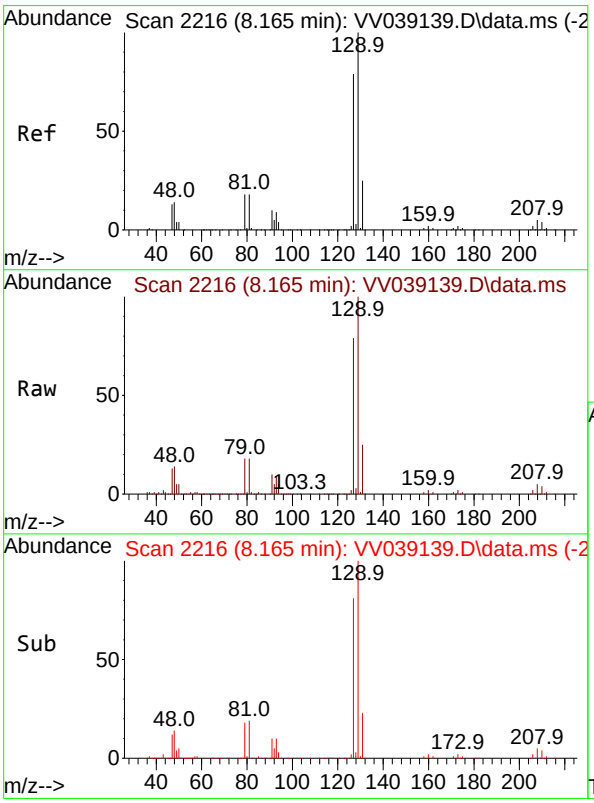

#59
2-Hexanone
Concen: 255.630 ug/l
RT: 8.059 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 43 Resp: 2441880

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 56.7 | 28.3 | 85.0 |

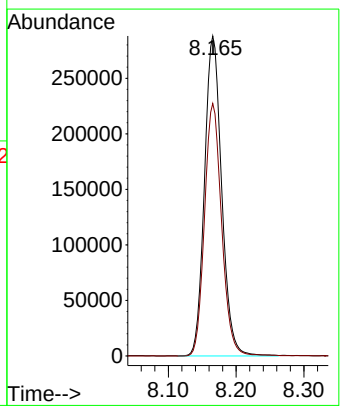


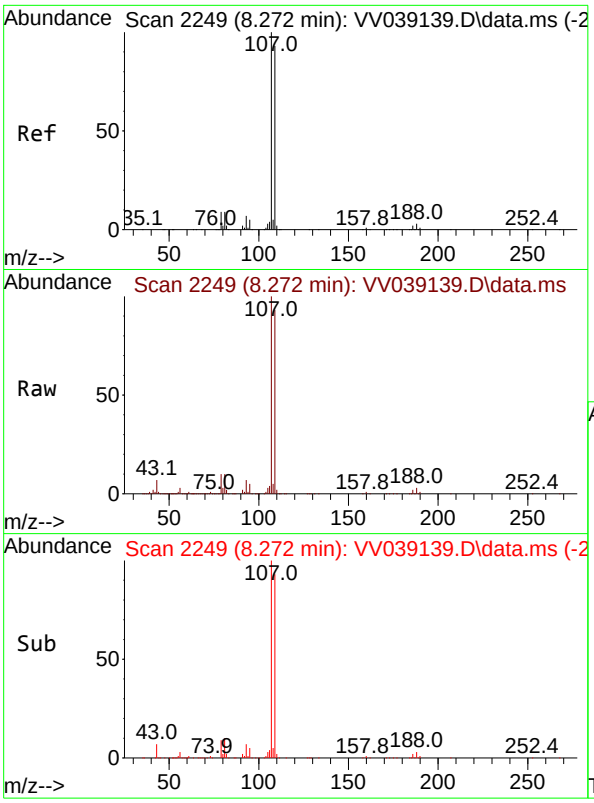




#60
Dibromochloromethane
Concen: 48.365 ug/l
RT: 8.165 min Scan# 2216
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:129 Resp: 507043

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.6 | 39.3 | 117.9 |



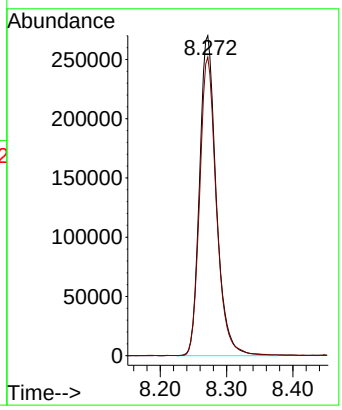


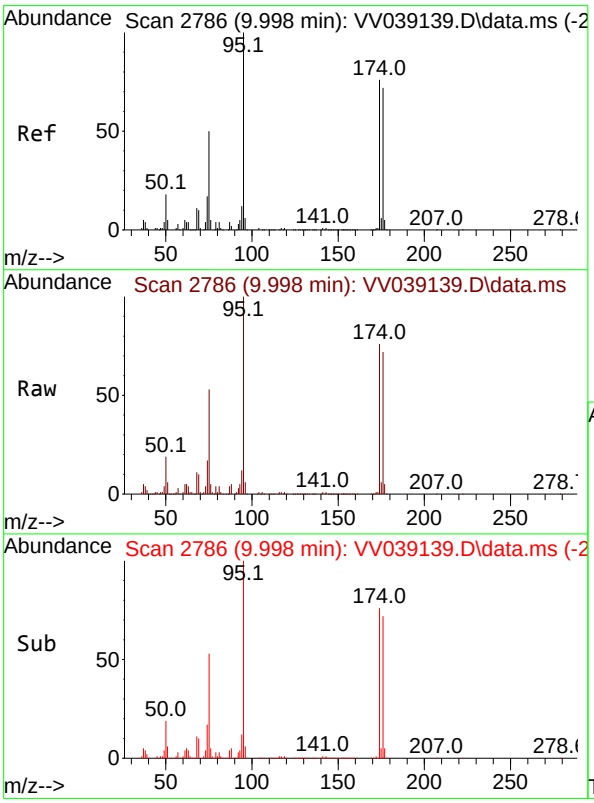

#61
1,2-Dibromoethane
Concen: 50.273 ug/l
RT: 8.272 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion:107 Resp: 473037

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.3 | 74.6 | 112.0 |

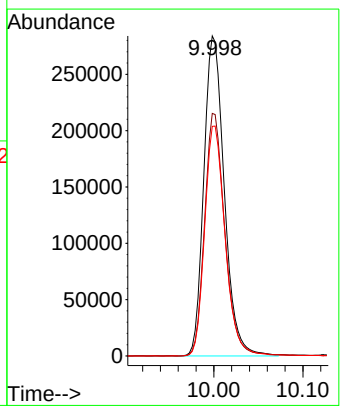


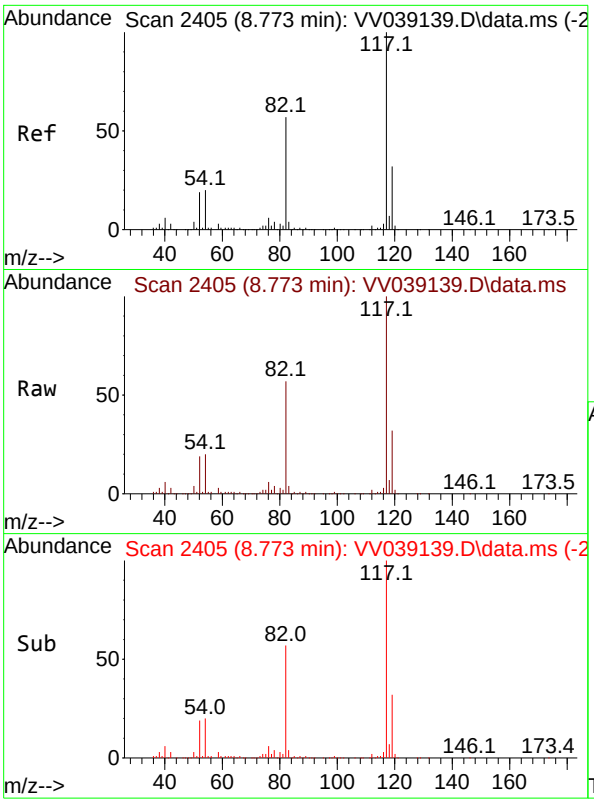




#62
4-Bromofluorobenzene
Concen: 52.130 ug/l
RT: 9.998 min Scan# 2786
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 95 Resp: 453081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 75.2 | 0.0 | 150.4 |
| 176 | 72.1 | 0.0 | 144.2 |



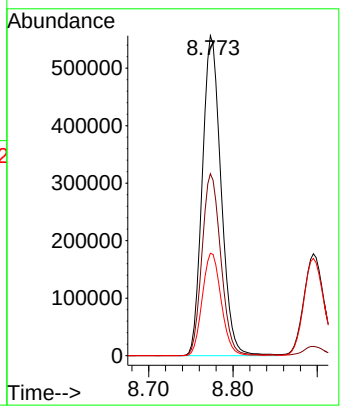


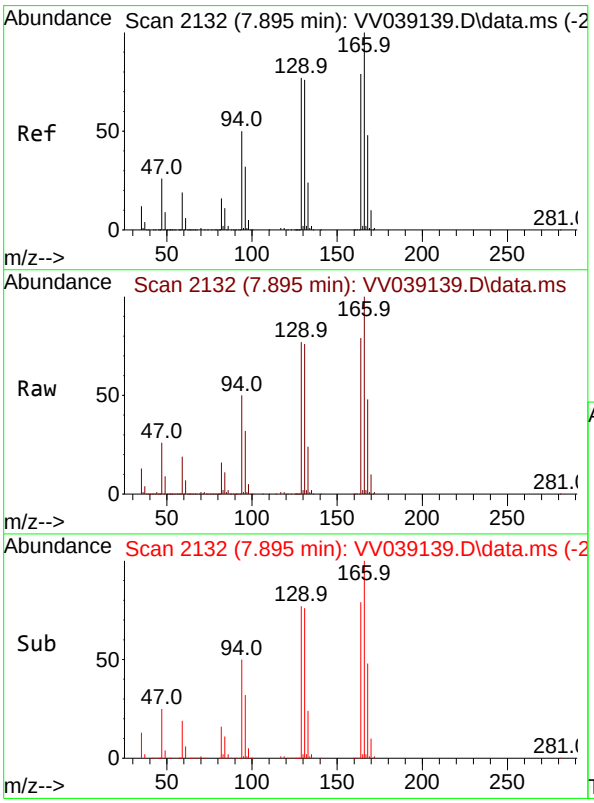

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.773 min Scan# 24
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion:117 Resp: 863906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 56.8 | 45.4 | 68.2 |
| 119 | 32.0 | 25.6 | 38.4 |

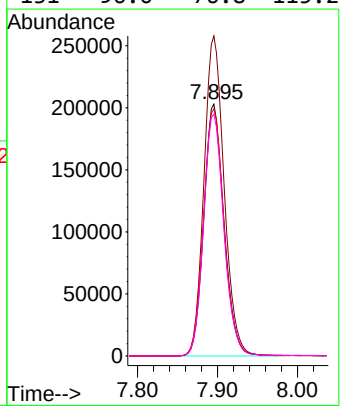


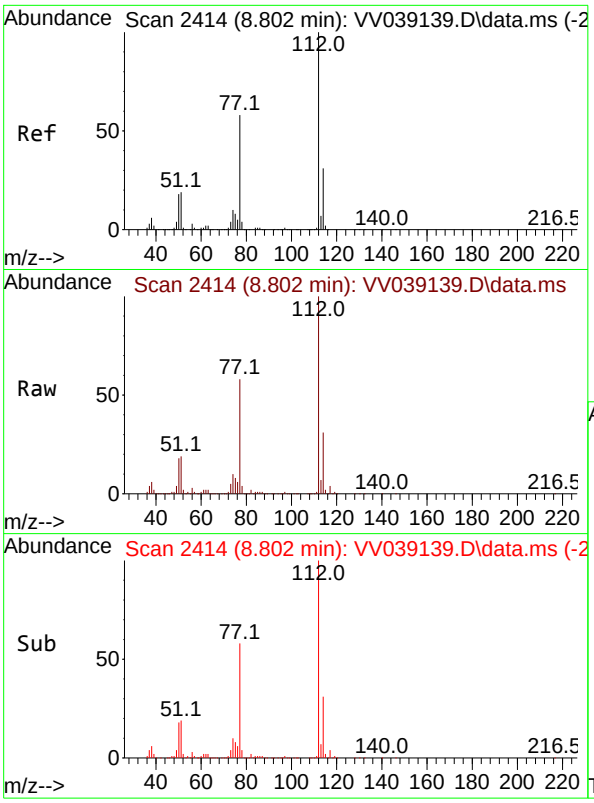




#64
Tetrachloroethene
Concen: 49.227 ug/l
RT: 7.895 min Scan# 2132
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:164 Resp: 356209

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 127.0 | 101.6 | 152.4 |
| 129 | 98.1 | 78.5 | 117.7 |
| 131 | 96.0 | 76.8 | 115.2 |



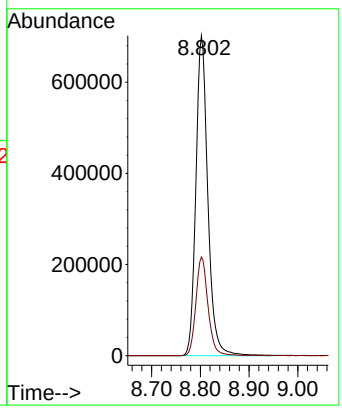


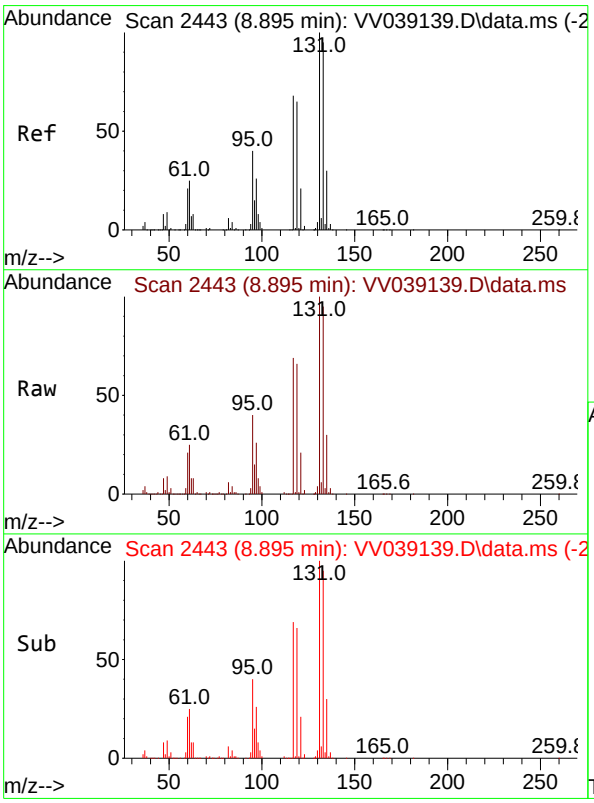

#65
Chlorobenzene
Concen: 49.651 ug/l
RT: 8.802 min Scan# 24
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion:112 Resp: 1194769

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 30.8 | 24.6 | 37.0 |

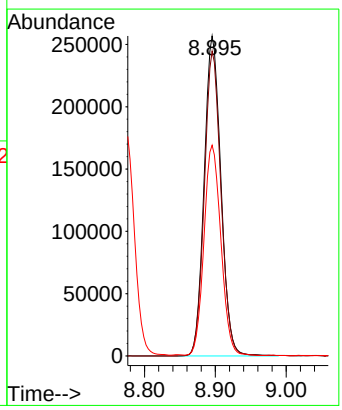


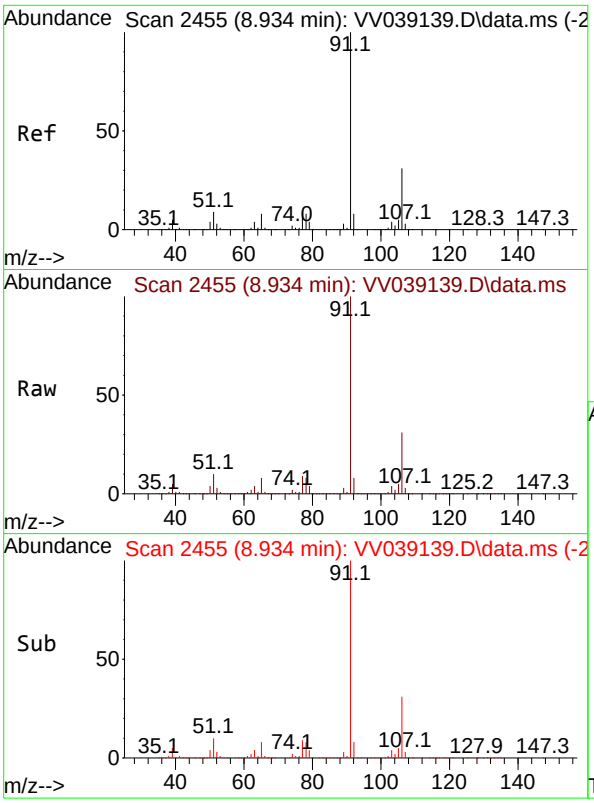




#66
1,1,1,2-Tetrachloroethane
Concen: 48.507 ug/l
RT: 8.895 min Scan# 2443
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:131 Resp: 421762

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.5 | 47.3 | 141.8 |
| 119 | 66.5 | 33.3 | 99.8 |



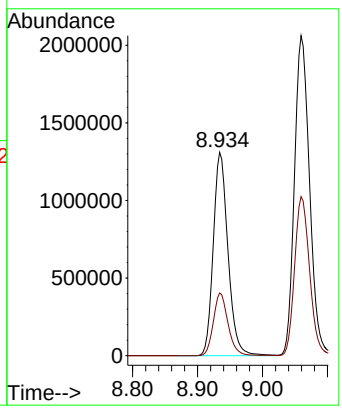


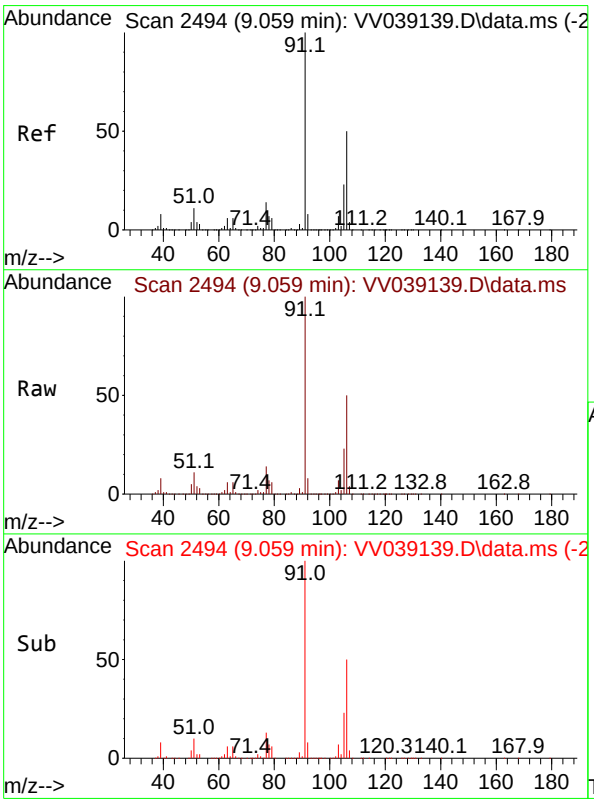

#67
Ethyl Benzene
Concen: 56.487 ug/l
RT: 8.934 min Scan# 24
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 91 Resp: 2057558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.8 | 24.6 | 37.0 |

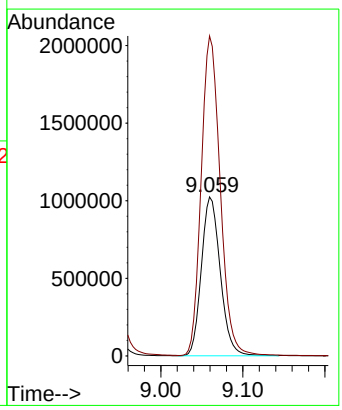


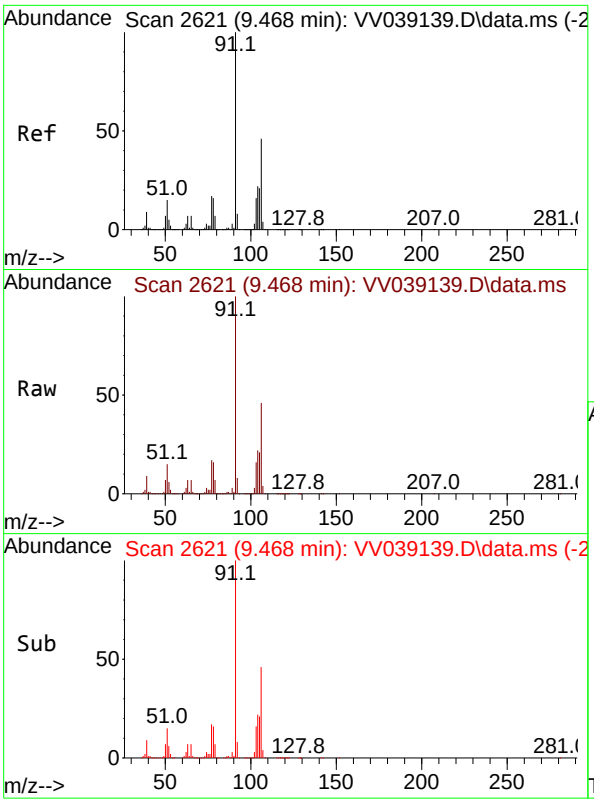




#68
m/p-Xylenes
Concen: 116.591 ug/l
RT: 9.059 min Scan# 2494
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:106 Resp: 1639130

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 203.1 | 162.5 | 243.7 |



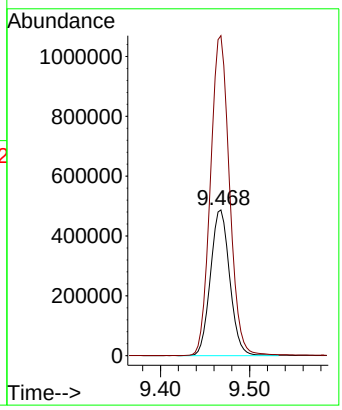


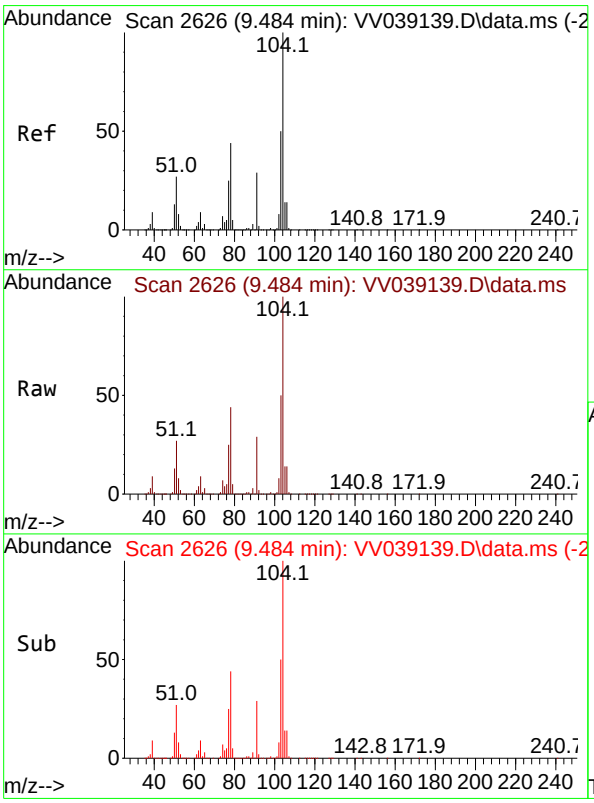

#69
o-Xylene
Concen: 58.688 ug/l
RT: 9.468 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion:106 Resp: 730558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 218.2 | 109.1 | 327.3 |

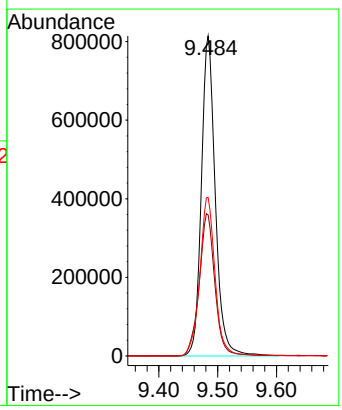


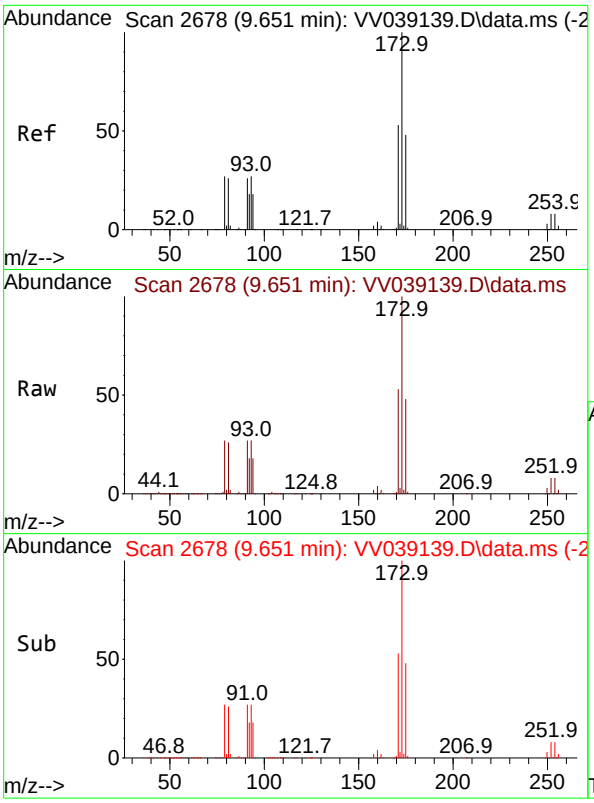




#70
Styrene
Concen: 50.845 ug/l
RT: 9.484 min Scan# 2626
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:104 Resp: 1341298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 49.7 | 39.8 | 59.6 |
| 103 | 54.3 | 43.4 | 65.2 |



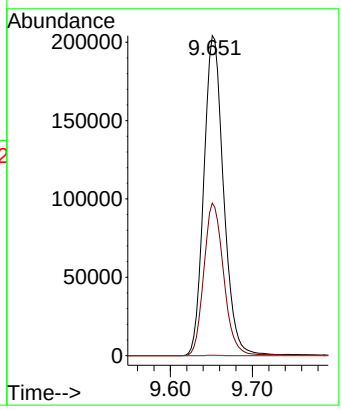


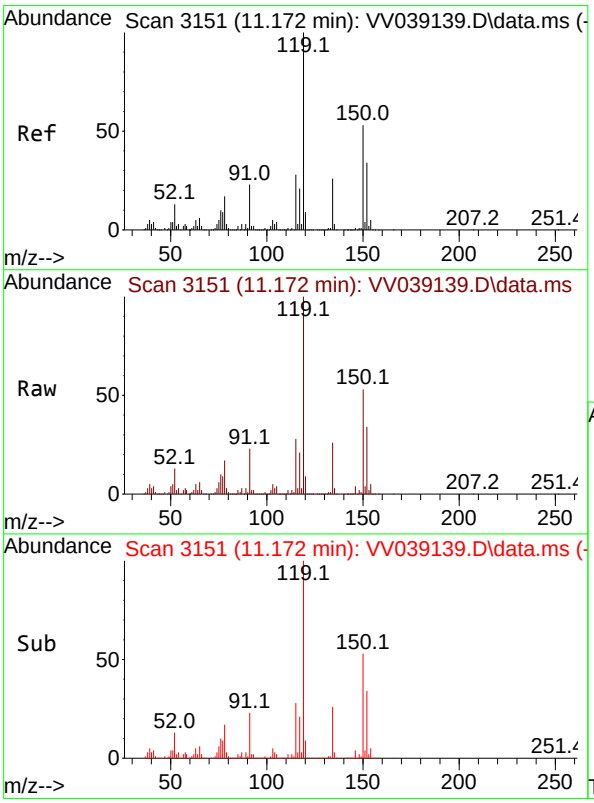

#71
Bromoform
Concen: 50.337 ug/l
RT: 9.651 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion:173 Resp: 341871

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.8 | 23.9 | 71.7 |
| 254 | 0.1 | 0.1 | 0.1 |

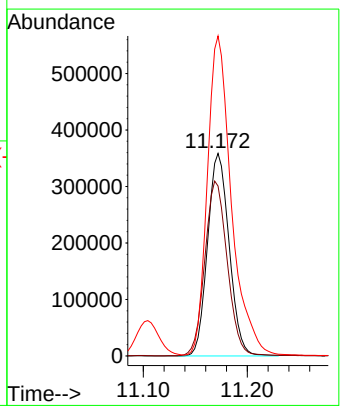


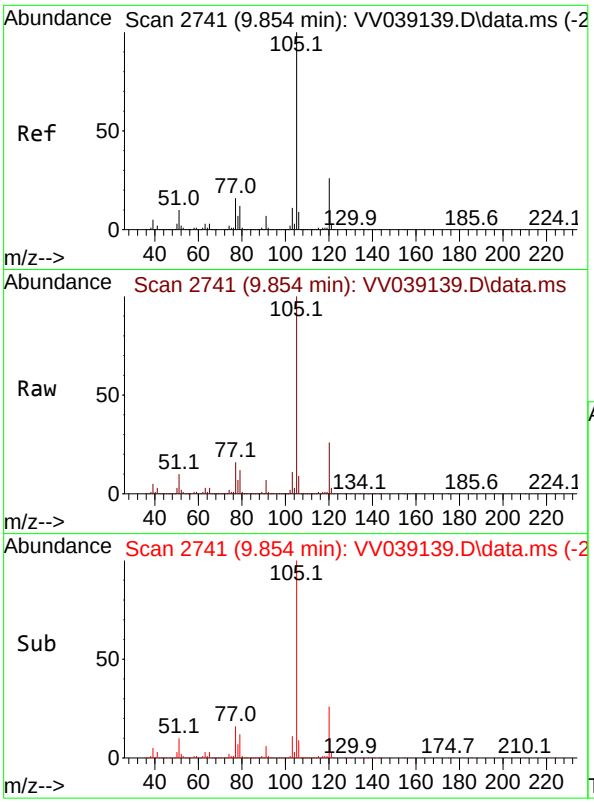




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:152 Resp: 516167

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 89.6 | 44.8 | 134.4 |
| 150 | 176.9 | 0.0 | 353.8 |



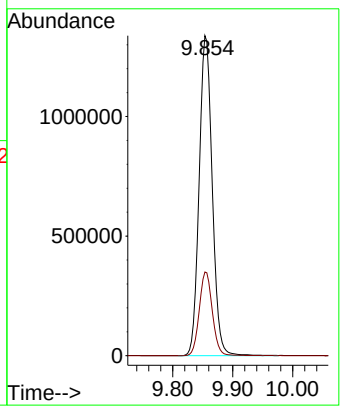


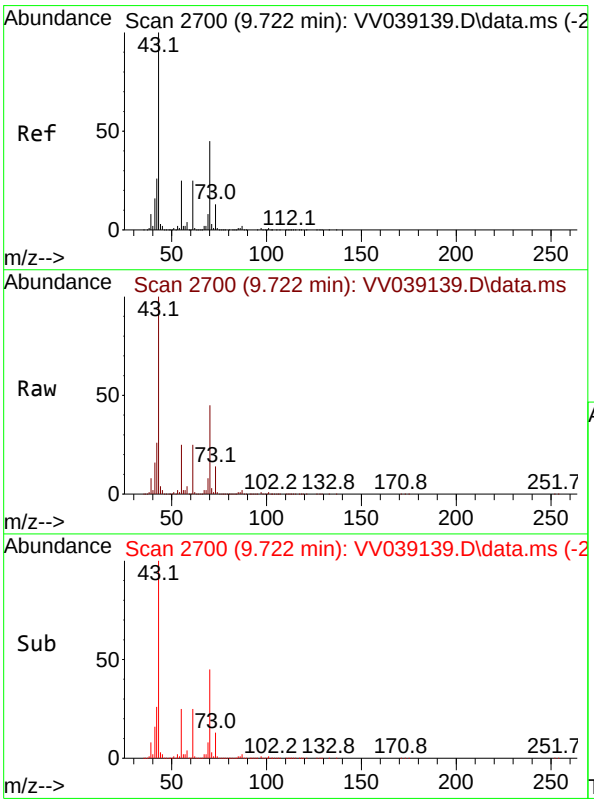

#73
Isopropylbenzene
Concen: 54.313 ug/l
RT: 9.854 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion:105 Resp: 2033373

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.1 | 13.1 | 39.1 |

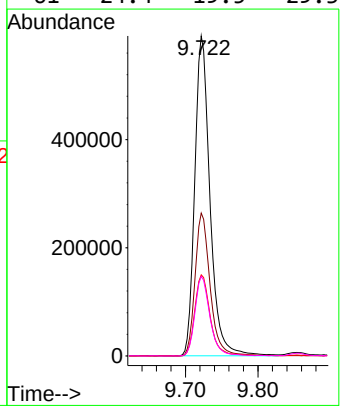


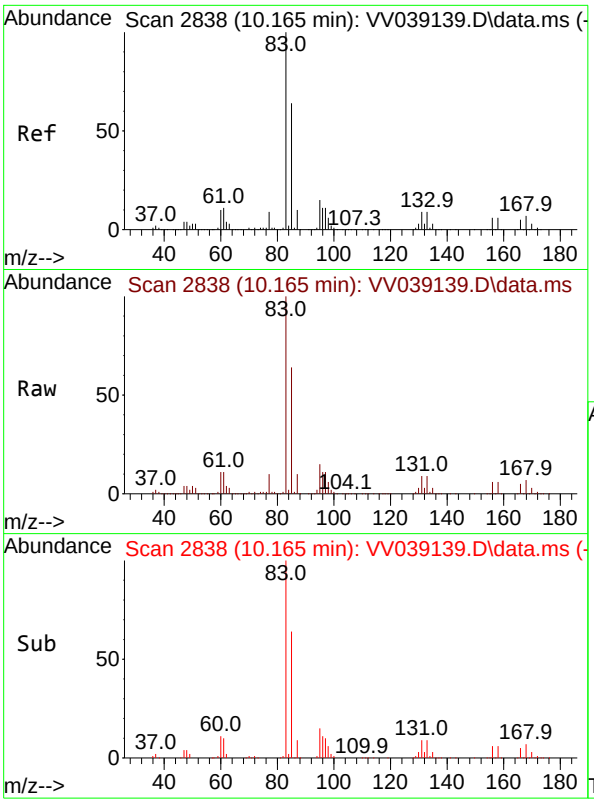




#74
N-amyl acetate
Concen: 57.833 ug/l
RT: 9.722 min Scan# 2700
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 43 Resp: 863632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 44.2 | 35.4 | 53.0 |
| 55 | 25.7 | 20.6 | 30.8 |
| 61 | 24.4 | 19.5 | 29.3 |



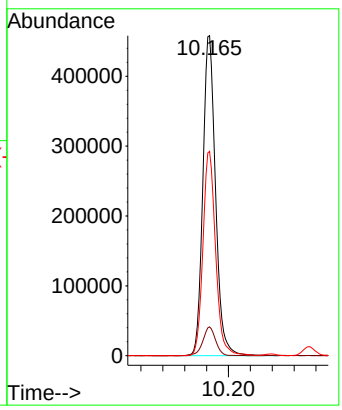


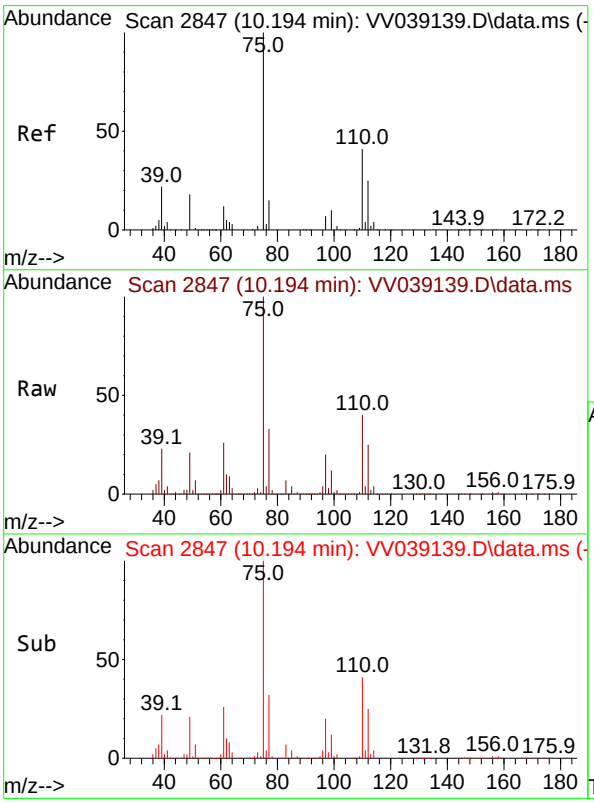

#75
1,1,2,2-Tetrachloroethane
Concen: 44.844 ug/l
RT: 10.165 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 83 Resp: 735590

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.1 | 4.5 | 13.7 |
| 85 | 63.9 | 31.9 | 95.9 |

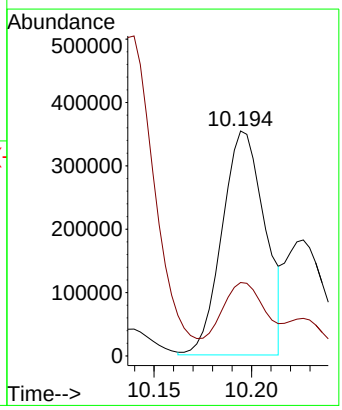


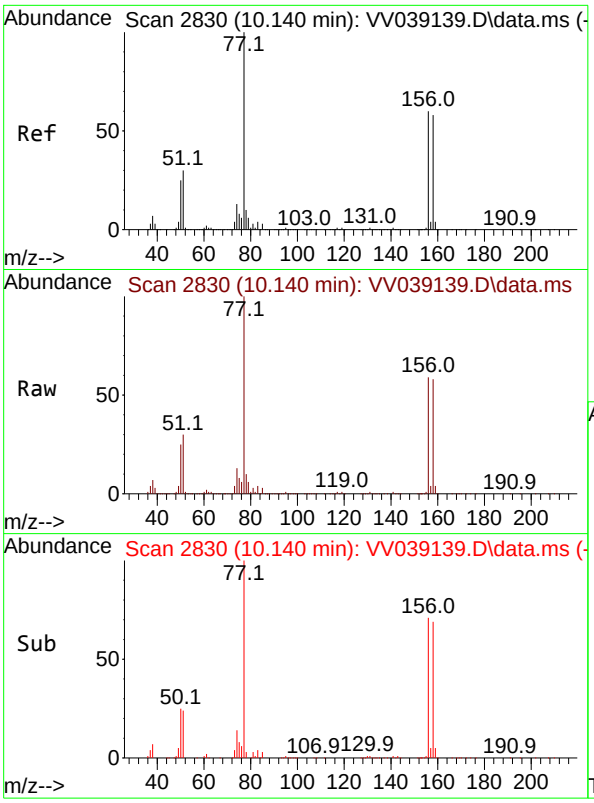




#76
1,2,3-Trichloropropane
Concen: 46.080 ug/l
RT: 10.194 min Scan# 2847
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 75 Resp: 541552

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 22.5 | 11.3 | 33.8 |



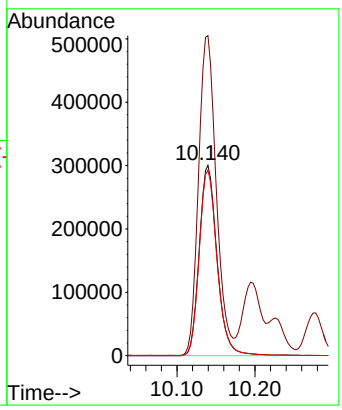


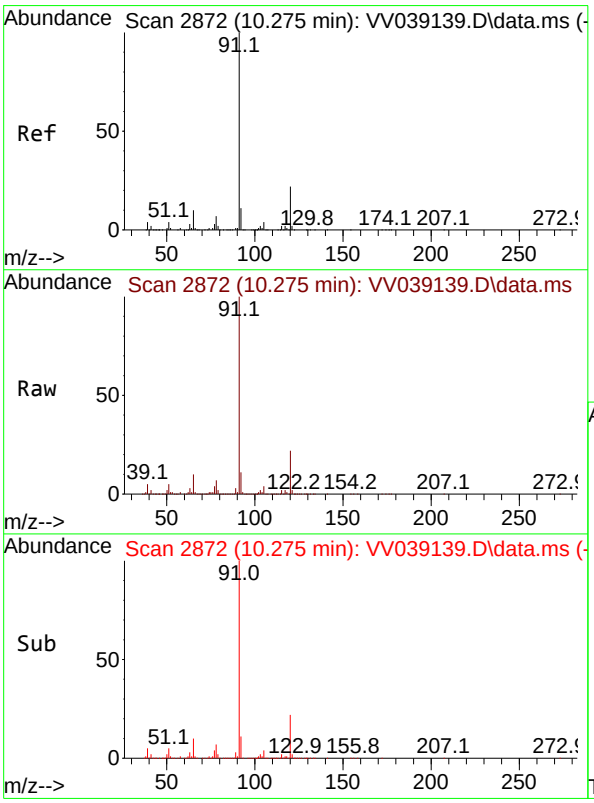

#77
Bromobenzene
Concen: 49.171 ug/l
RT: 10.140 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion:156 Resp: 477608

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 166.7 | 83.4 | 250.1 |
| 158 | 97.6 | 48.8 | 146.4 |

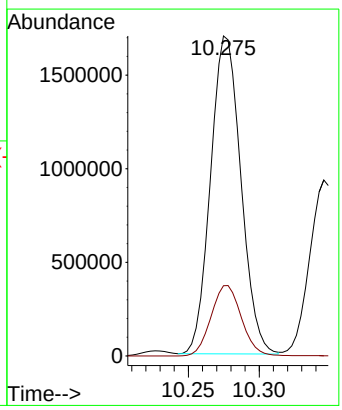


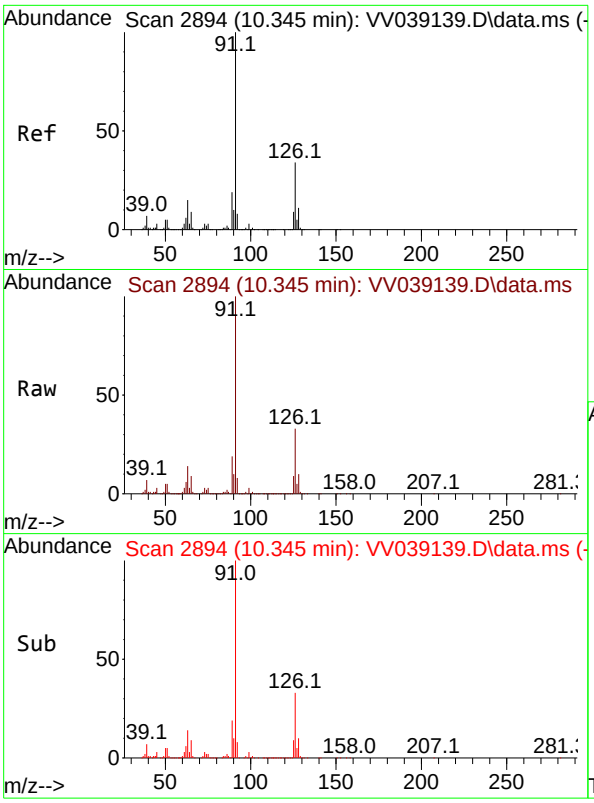




#78
n-propylbenzene
Concen: 55.461 ug/l
RT: 10.275 min Scan# 2872
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 91 Resp: 2528458

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.2 | 11.1 | 33.3 |



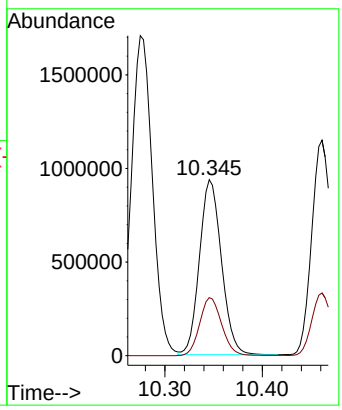


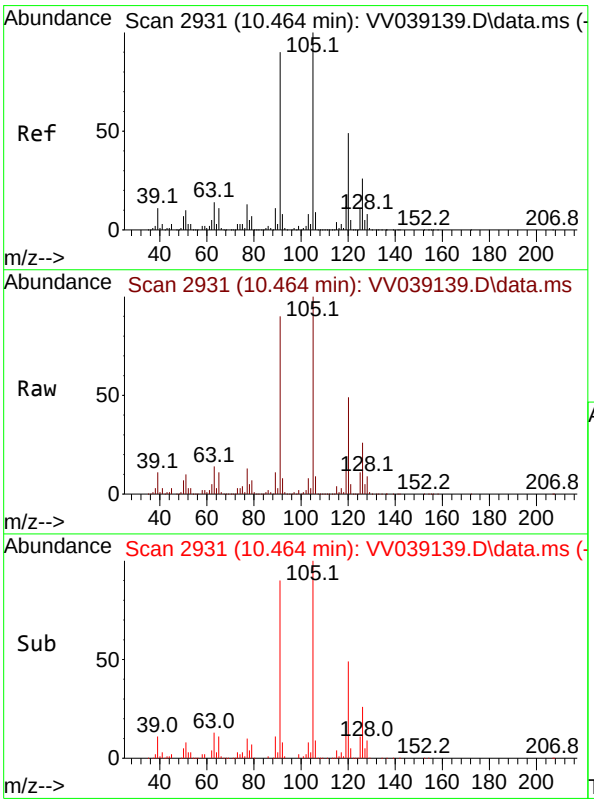

#79
2-Chlorotoluene
Concen: 53.612 ug/l
RT: 10.345 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 91 Resp: 1462530

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.3 | 16.7 | 50.0 |

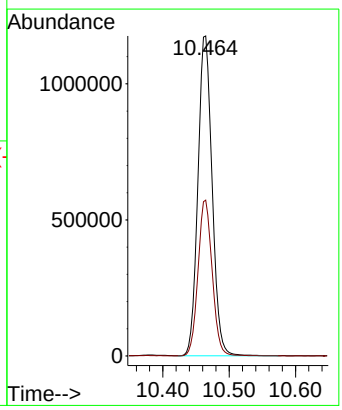


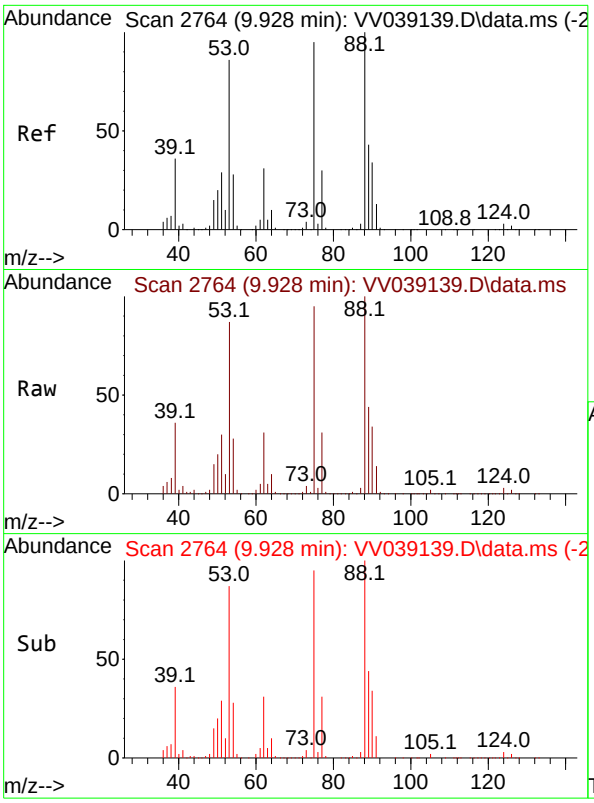




#80
1,3,5-Trimethylbenzene
Concen: 56.188 ug/l
RT: 10.464 min Scan# 2931
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:105 Resp: 1748435

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.5 | 24.3 | 72.8 |



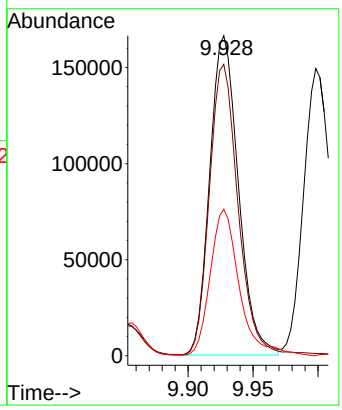


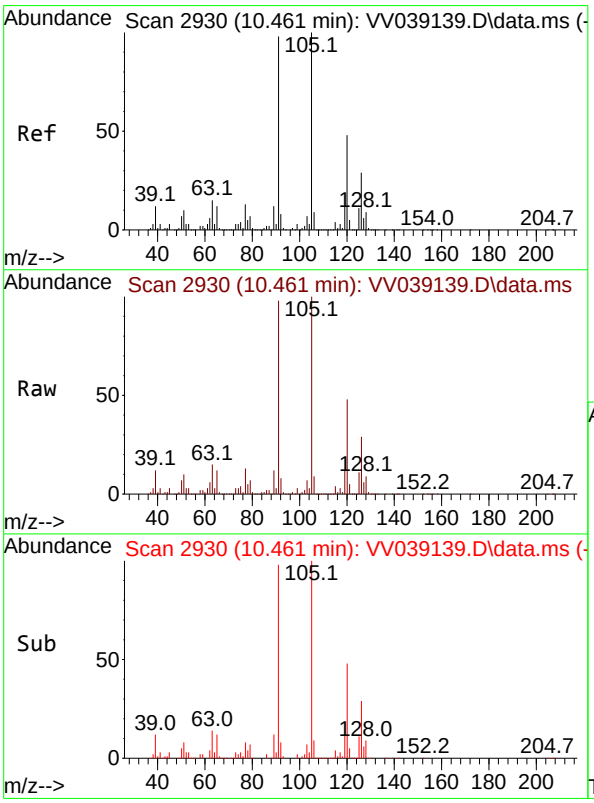

#81
trans-1,4-Dichloro-2-butene
Concen: 52.143 ug/l
RT: 9.928 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 75 Resp: 255259

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 90.6 | 72.5 | 108.7 |
| 89 | 46.5 | 37.2 | 55.8 |

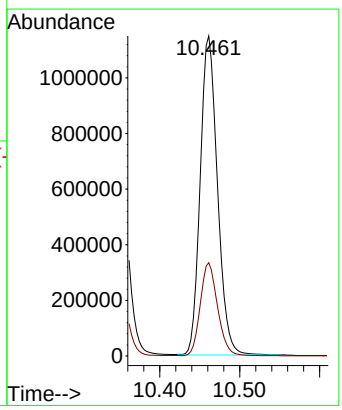


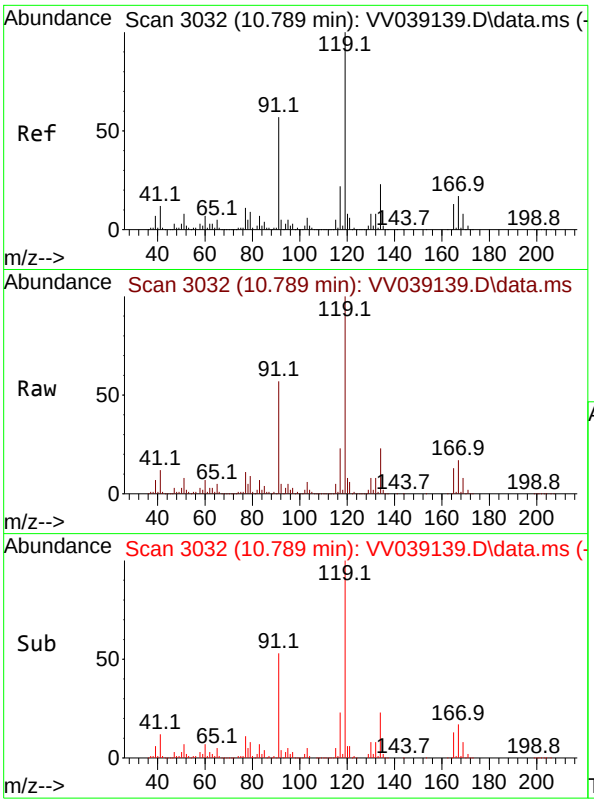




#82
4-Chlorotoluene
Concen: 54.466 ug/l
RT: 10.461 min Scan# 2930
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 91 Resp: 1722899

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 29.1 | 14.5 | 43.6 |



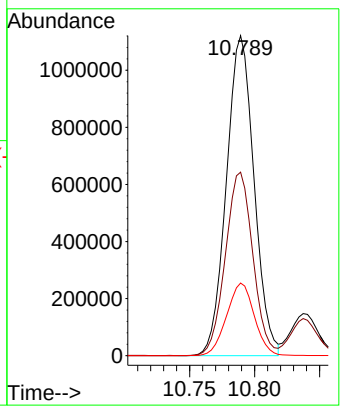


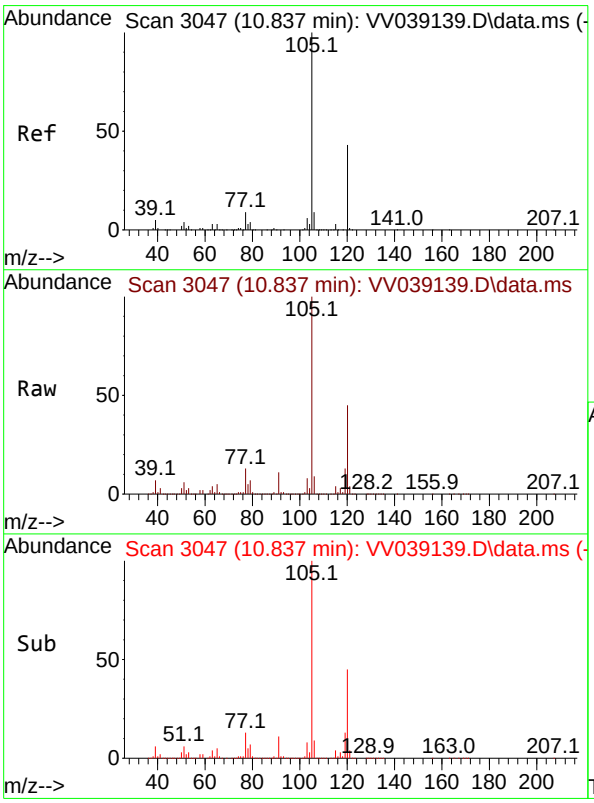

#83
tert-Butylbenzene
Concen: 53.602 ug/l
RT: 10.789 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion:119 Resp: 1663245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 57.1 | 28.5 | 85.6 |
| 134 | 22.9 | 11.5 | 34.4 |

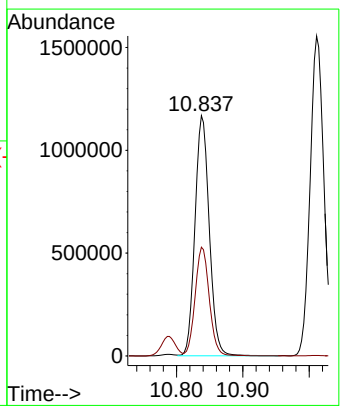


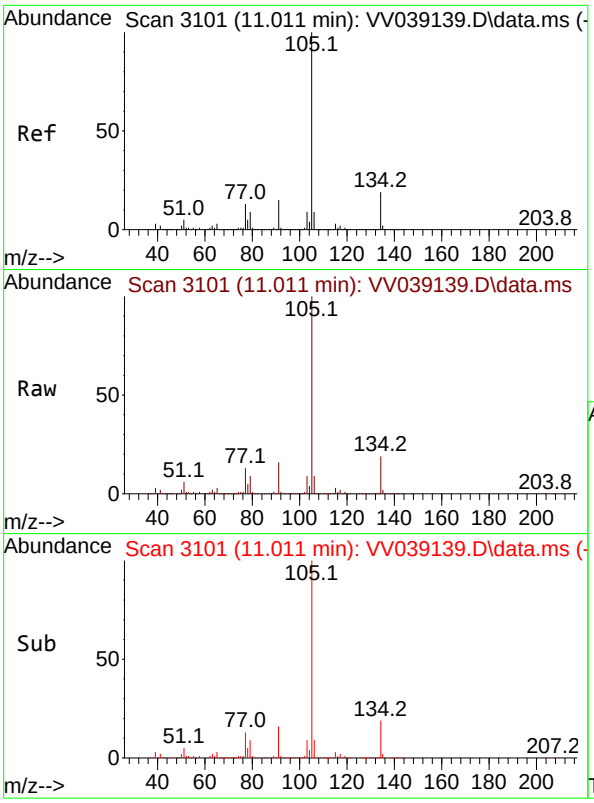




#84
1,2,4-Trimethylbenzene
Concen: 57.709 ug/l
RT: 10.837 min Scan# 3047
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:105 Resp: 1743425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.8 | 22.4 | 67.2 |



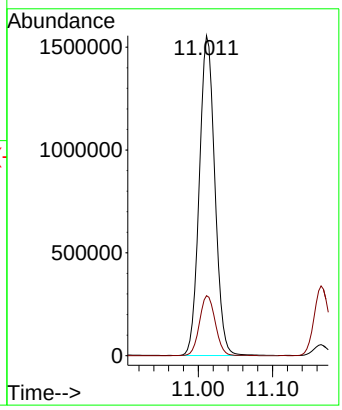


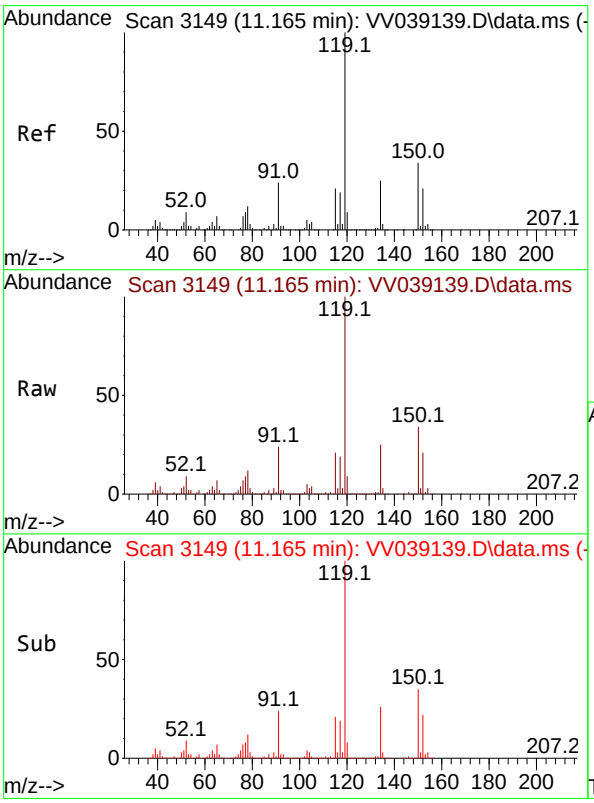

#85
sec-Butylbenzene
Concen: 54.737 ug/l
RT: 11.011 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion:105 Resp: 2252781

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.2 | 9.6 | 28.8 |

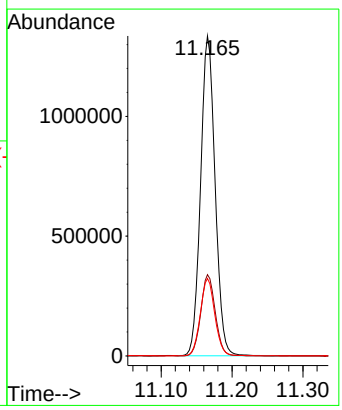


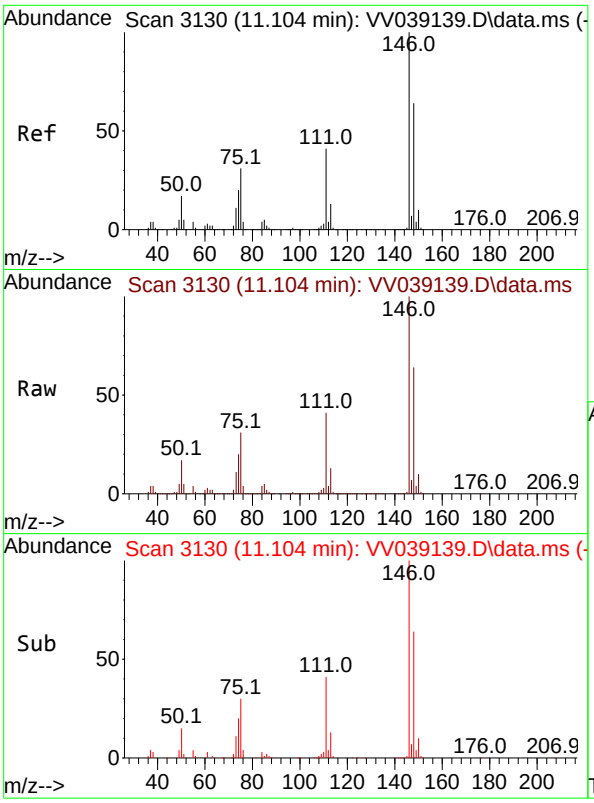




#86
p-Isopropyltoluene
Concen: 55.479 ug/l
RT: 11.165 min Scan# 3149
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:119 Resp: 1900412

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.3 | 12.7 | 38.0 |
| 91 | 24.1 | 12.0 | 36.1 |



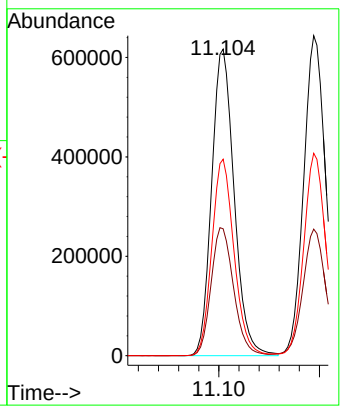


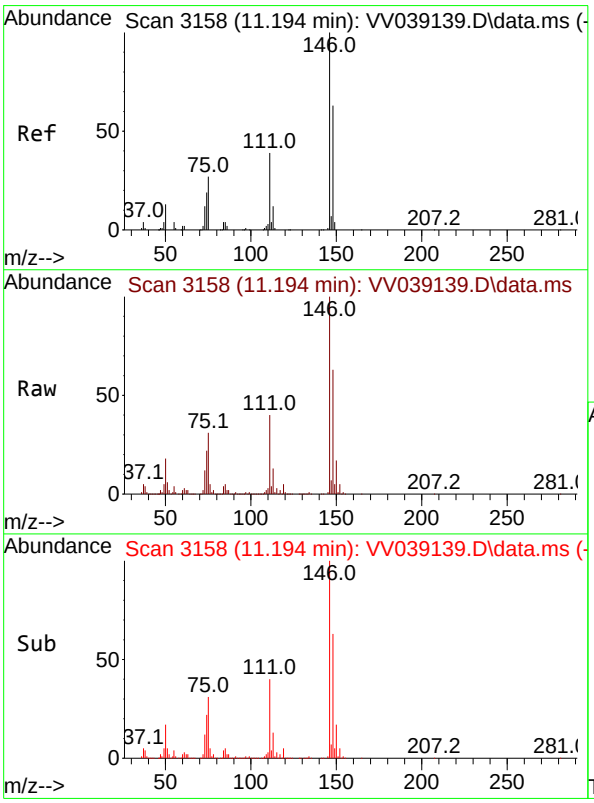

#87
1,3-Dichlorobenzene
Concen: 48.769 ug/l
RT: 11.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion:146 Resp: 958701

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.9 | 20.9 | 62.8 |
| 148 | 63.5 | 31.8 | 95.3 |

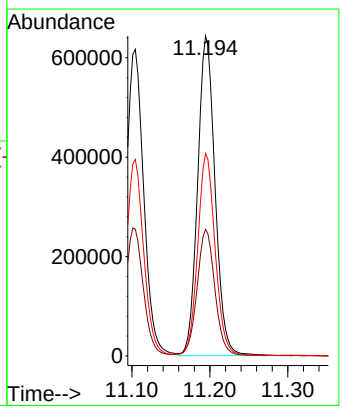


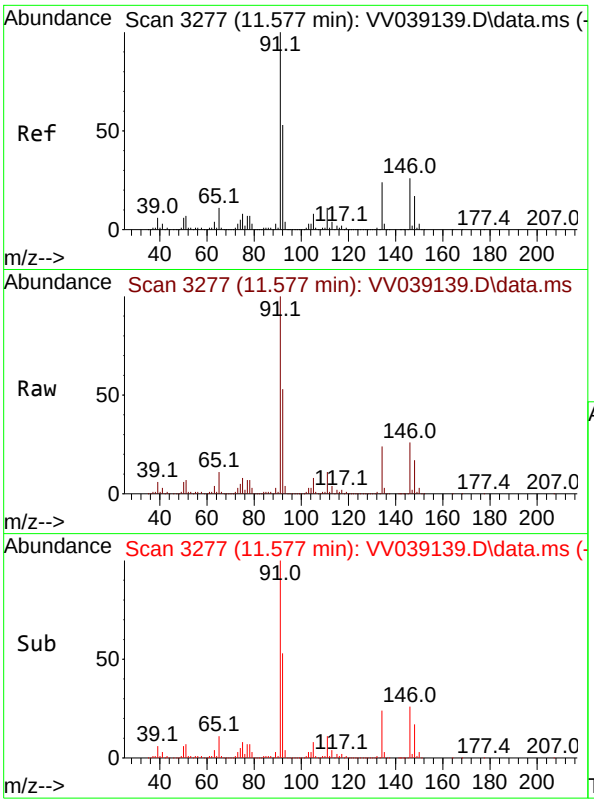




#88
1,4-Dichlorobenzene
Concen: 45.957 ug/l
RT: 11.194 min Scan# 3158
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:146 Resp: 998426

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.5 | 20.3 | 60.8 |
| 148 | 62.8 | 31.4 | 94.2 |



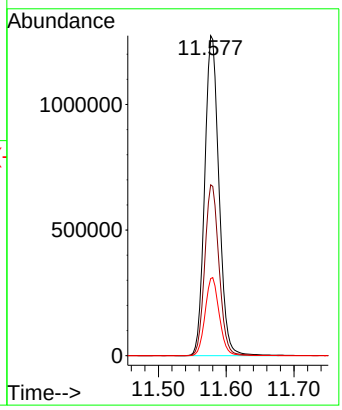


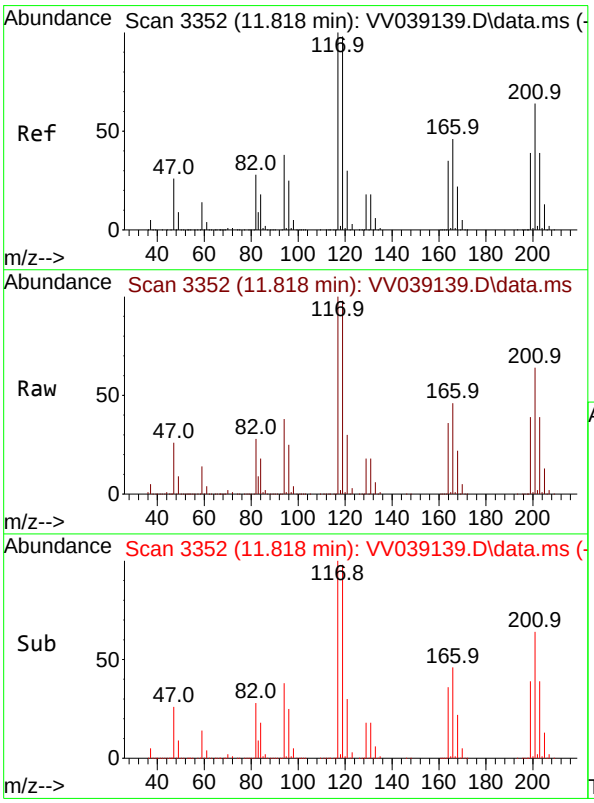

#89
n-Butylbenzene
Concen: 57.003 ug/l
RT: 11.577 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 91 Resp: 1864844

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.2 | 26.6 | 79.8 |
| 134 | 24.2 | 12.1 | 36.3 |

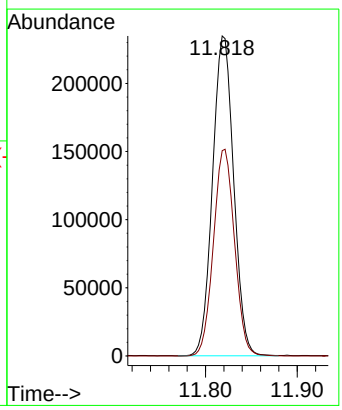


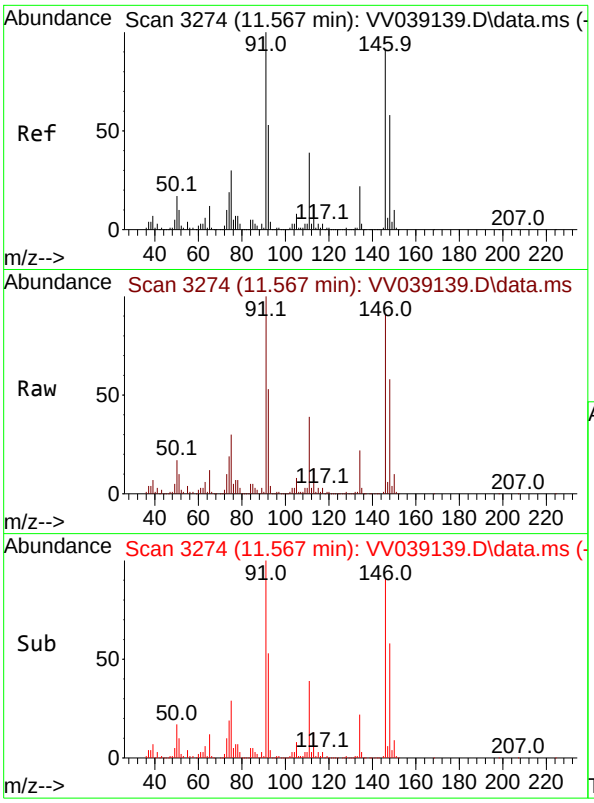




#90
Hexachloroethane
Concen: 44.553 ug/l
RT: 11.818 min Scan# 3352
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:117 Resp: 375818

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 64.5 | 32.3 | 96.8 |



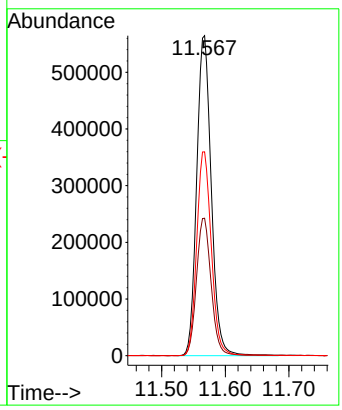


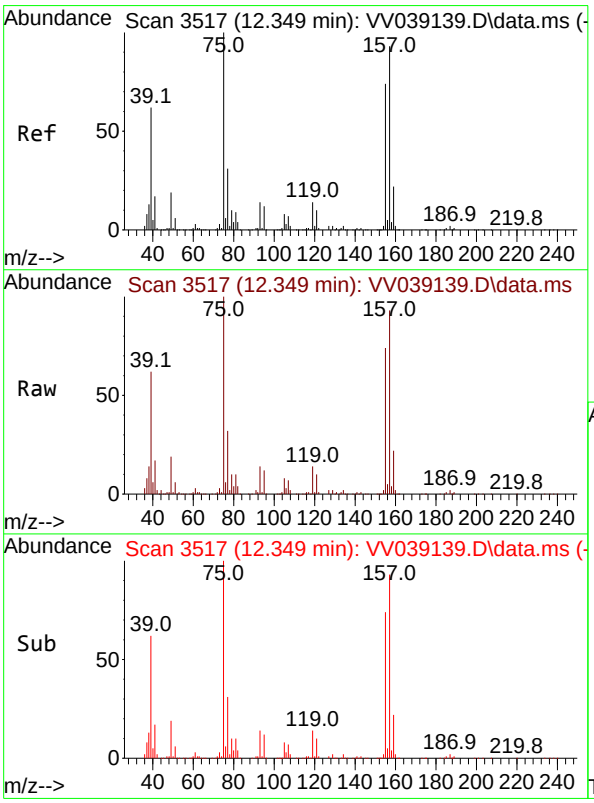

#91
1,2-Dichlorobenzene
Concen: 48.848 ug/l
RT: 11.567 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion:146 Resp: 897135

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.0 | 21.5 | 64.5 |
| 148 | 63.8 | 31.9 | 95.7 |

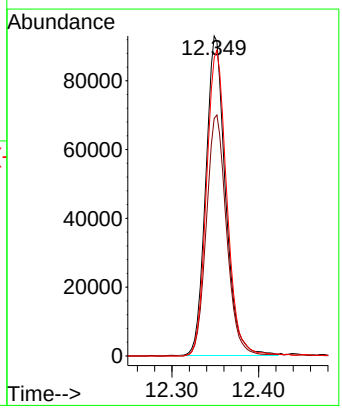


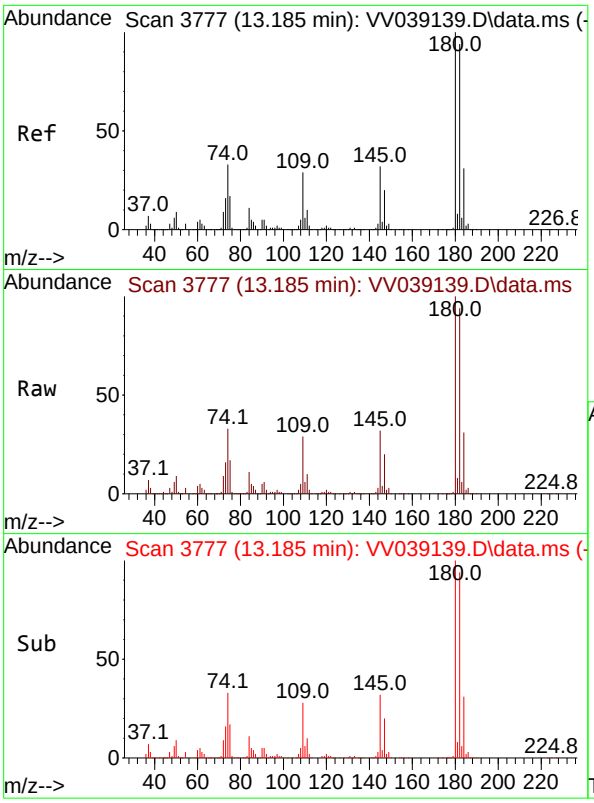




#92
1,2-Dibromo-3-Chloropropane
Concen: 49.928 ug/l
RT: 12.349 min Scan# 3517
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion: 75 Resp: 147329

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 77.2 | 38.6 | 115.8 |
| 157 | 98.9 | 49.5 | 148.3 |



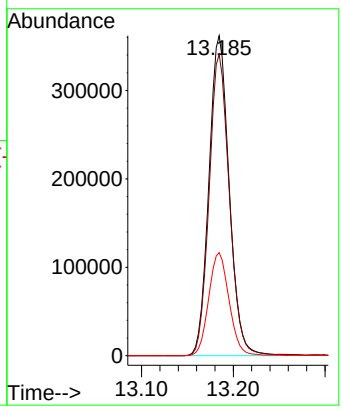


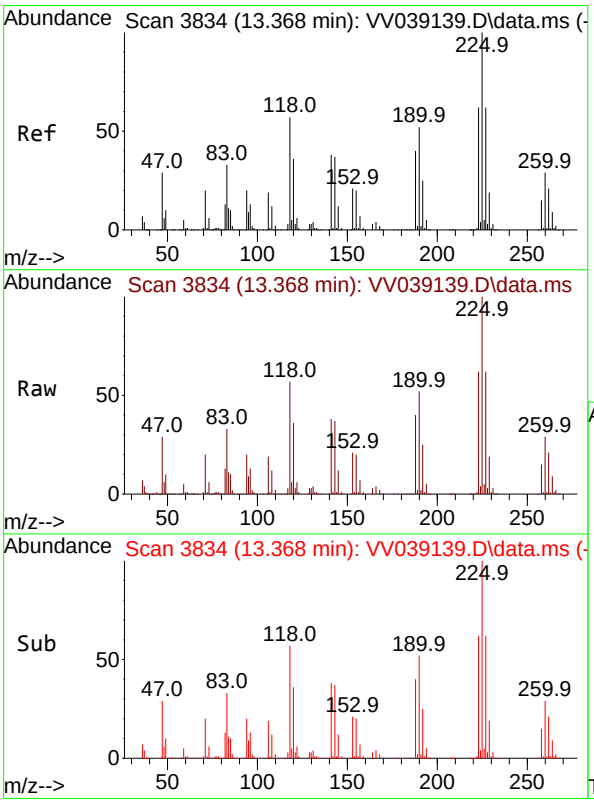

#93
1,2,4-Trichlorobenzene
Concen: 52.747 ug/l
RT: 13.185 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion:180 Resp: 555323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.3 | 47.1 | 141.4 |
| 145 | 32.5 | 16.3 | 48.8 |

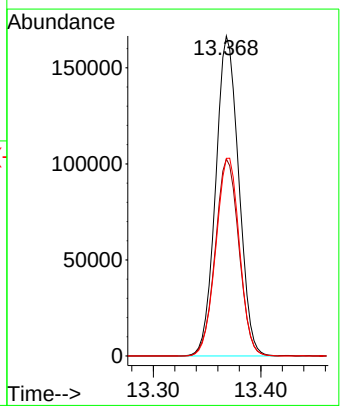


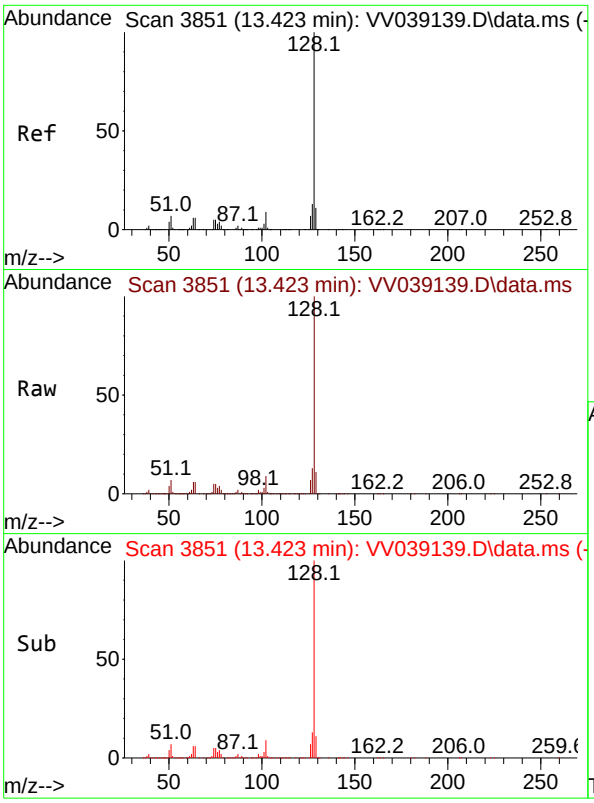




#94
Hexachlorobutadiene
Concen: 45.279 ug/l
RT: 13.368 min Scan# 3834
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:225 Resp: 247695

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.1 | 31.6 | 94.7 |
| 227 | 63.6 | 31.8 | 95.4 |



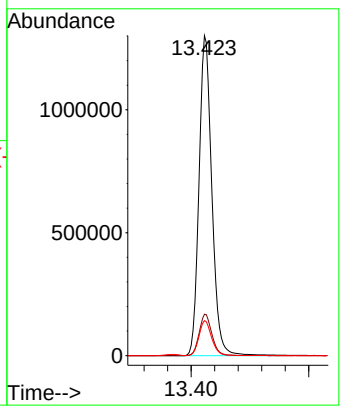


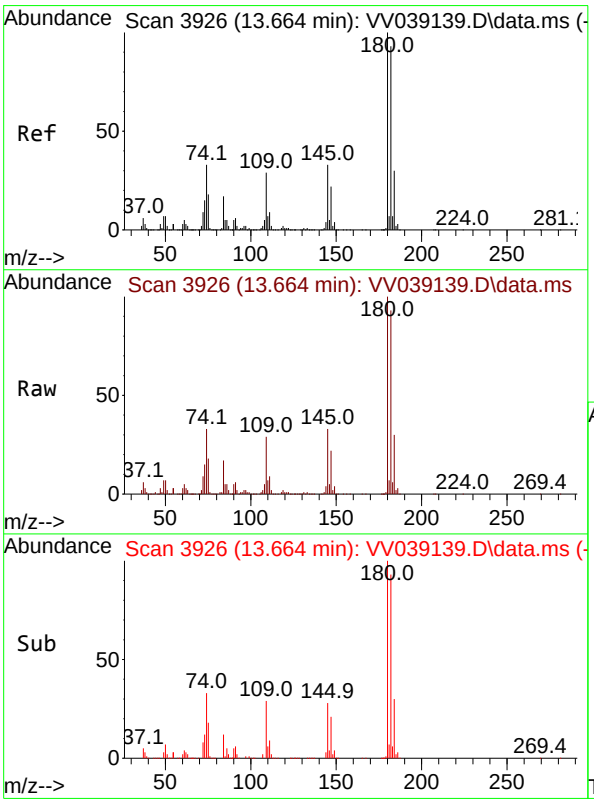

#95
Naphthalene
Concen: 58.135 ug/l
RT: 13.423 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICCC050

Tgt Ion:128 Resp: 1968567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.9 | 10.3 | 15.5 |
| 129 | 10.8 | 8.6 | 13.0 |

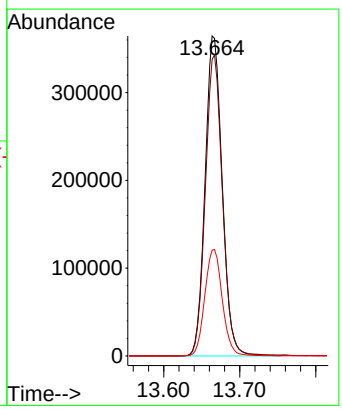



#96
1,2,3-Trichlorobenzene
Concen: 53.081 ug/l
RT: 13.664 min Scan# 3926
Delta R.T. 0.000 min
Lab File: VV039139.D
Acq: 22 Sep 2025 13:26

Tgt Ion:180 Resp: 571563

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.9 | 46.9 | 140.8 |
| 145 | 34.0 | 17.0 | 51.0 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039140.D
Acq On : 22 Sep 2025 13:49
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Quant Time: Sep 24 07:24:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.600 | 168 | 587274 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.532 | 114 | 935392 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.776 | 117 | 904902 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.172 | 152 | 523452 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.941 | 65 | 725543 | 85.362 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 170.720%# | | | |
| 35) Dibromofluoromethane | 4.500 | 113 | 674408 | 89.684 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 179.360%# | | | |
| 50) Toluene-d8 | 7.236 | 98 | 2052477 | 92.932 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 185.860%# | | | |
| 62) 4-Bromofluorobenzene | 9.998 | 95 | 937505 | 103.112 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 206.220%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.121 | 85 | 820676 | 88.278 | ug/l | 99 |
| 3) Chloromethane | 1.230 | 50 | 856347 | 85.806 | ug/l | 98 |
| 4) Vinyl Chloride | 1.298 | 62 | 940694 | 88.044 | ug/l | 99 |
| 5) Bromomethane | 1.487 | 94 | 615924 | 91.446 | ug/l | 99 |
| 6) Chloroethane | 1.555 | 64 | 587651 | 100.067 | ug/l | 99 |
| 7) Trichlorofluoromethane | 1.722 | 101 | 1351410 | 87.363 | ug/l | 99 |
| 8) Diethyl Ether | 1.918 | 74 | 511033 | 88.990 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 2.079 | 101 | 806216 | 87.593 | ug/l | 98 |
| 10) Methyl Iodide | 2.195 | 142 | 931666 | 106.294 | ug/l | 100 |
| 11) Tert butyl alcohol | 2.574 | 59 | 798702 | 444.608 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 2.079 | 96 | 778436 | 87.914 | ug/l | 98 |
| 13) Acrolein | 2.008 | 56 | 160749 | 515.691 | ug/l | 99 |
| 14) Allyl chloride | 2.355 | 41 | 1418889 | 89.708 | ug/l | 99 |
| 15) Acrylonitrile | 2.674 | 53 | 2509475 | 435.771 | ug/l | 100 |
| 16) Acetone | 2.118 | 43 | 2432444 | 499.795 | ug/l | 100 |
| 17) Carbon Disulfide | 2.253 | 76 | 2332239 | 86.125 | ug/l | 99 |
| 18) Methyl Acetate | 2.378 | 43 | 1142900 | 90.753 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 2.712 | 73 | 2586428 | 91.667 | ug/l | 99 |
| 20) Methylene Chloride | 2.455 | 84 | 870955 | 100.038 | ug/l | 99 |
| 21) trans-1,2-Dichloroethene | 2.699 | 96 | 817275 | 86.701 | ug/l | 98 |
| 22) Diisopropyl ether | 3.217 | 45 | 2857568 | 94.428 | ug/l | 94 |
| 23) Vinyl Acetate | 3.188 | 43 | 12498986 | 472.148 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 3.117 | 63 | 1560774 | 84.338 | ug/l | 99 |
| 25) 2-Butanone | 3.863 | 43 | 3404031 | 508.801 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 3.812 | 77 | 1414724 | 86.559 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 3.818 | 96 | 1010617 | 97.210 | ug/l | 99 |
| 28) Bromochloromethane | 4.146 | 49 | 748549 | 91.624 | ug/l | 98 |
| 29) Tetrahydrofuran | 4.233 | 42 | 2198745 | 516.116 | ug/l | 99 |
| 30) Chloroform | 4.278 | 83 | 1682895 | 87.087 | ug/l | 98 |
| 31) Cyclohexane | 4.580 | 56 | 1473260 | 97.182 | ug/l | 97 |
| 32) 1,1,1-Trichloroethane | 4.513 | 97 | 1483938 | 88.700 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 4.741 | 75 | 1144520 | 99.944 | ug/l | 100 |
| 37) Ethyl Acetate | 3.973 | 43 | 1328655 | 94.580 | ug/l | 98 |
| 38) Carbon Tetrachloride | 4.735 | 117 | 1263028 | 91.566 | ug/l | 100 |
| 39) Methylcyclohexane | 6.047 | 83 | 1603169 | 116.766 | ug/l | 98 |
| 40) Benzene | 5.008 | 78 | 3611886 | 97.560 | ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039140.D
Acq On : 22 Sep 2025 13:49
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Quant Time: Sep 24 07:24:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.156 | 41 | 639301 | 100.494 | ug/l | 99 |
| 42) 1,2-Dichloroethane | 5.037 | 62 | 1202991 | 92.737 | ug/l | 100 |
| 43) Isopropyl Acetate | 5.191 | 43 | 2058622 | 106.372 | ug/l | 100 |
| 44) Trichloroethene | 5.828 | 130 | 849813 | 99.474 | ug/l | 97 |
| 45) 1,2-Dichloropropane | 6.088 | 63 | 909288 | 98.813 | ug/l | 95 |
| 46) Dibromomethane | 6.220 | 93 | 661336 | 93.898 | ug/l | 98 |
| 47) Bromodichloromethane | 6.426 | 83 | 1355845 | 93.118 | ug/l | 99 |
| 48) Methyl methacrylate | 6.294 | 41 | 984431 | 111.182 | ug/l | 99 |
| 49) 1,4-Dioxane | 6.288 | 88 | 304943 | 2191.331 | ug/l | 95 |
| 51) 4-Methyl-2-Pentanone | 7.149 | 43 | 6674594 | 539.372 | ug/l | 99 |
| 52) Toluene | 7.307 | 92 | 2271340 | 105.813 | ug/l | 99 |
| 53) t-1,3-Dichloropropene | 7.571 | 75 | 1408125 | 110.970 | ug/l | 97 |
| 54) cis-1,3-Dichloropropene | 6.947 | 75 | 1501380 | 107.178 | ug/l | 100 |
| 55) 1,1,2-Trichloroethane | 7.757 | 97 | 897804 | 93.280 | ug/l | 99 |
| 56) Ethyl methacrylate | 7.712 | 69 | 1424432 | 124.621 | ug/l | 99 |
| 57) 1,3-Dichloropropane | 7.931 | 76 | 1501225 | 98.832 | ug/l | 100 |
| 58) 2-Chloroethyl Vinyl ether | 6.812 | 63 | 3282267 | 498.705 | ug/l | 100 |
| 59) 2-Hexanone | 8.063 | 43 | 4988835 | 497.186 | ug/l | 99 |
| 60) Dibromochloromethane | 8.165 | 129 | 1044126 | 95.206 | ug/l | 99 |
| 61) 1,2-Dibromoethane | 8.272 | 107 | 960914 | 97.622 | ug/l | 98 |
| 64) Tetrachloroethene | 7.895 | 164 | 736462 | 97.167 | ug/l | 97 |
| 65) Chlorobenzene | 8.802 | 112 | 2457021 | 97.480 | ug/l | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 8.895 | 131 | 863523 | 94.816 | ug/l | 100 |
| 67) Ethyl Benzene | 8.934 | 91 | 4376266 | 114.700 | ug/l | 100 |
| 68) m/p-Xylenes | 9.059 | 106 | 3396653 | 230.657 | ug/l | 100 |
| 69) o-Xylene | 9.468 | 106 | 1592963 | 122.170 | ug/l | 98 |
| 70) Styrene | 9.484 | 104 | 2781887 | 99.832 | ug/l | 100 |
| 71) Bromoform | 9.651 | 173 | 724467 | 101.838 | ug/l | 99 |
| 73) Isopropylbenzene | 9.854 | 105 | 4288139 | 112.946 | ug/l | 100 |
| 74) N-amyl acetate | 9.722 | 43 | 1846779 | 121.948 | ug/l | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 10.165 | 83 | 1453989 | 87.406 | ug/l | 100 |
| 76) 1,2,3-Trichloropropane | 10.198 | 75 | 1070580 | 89.827 | ug/l | 95 |
| 77) Bromobenzene | 10.140 | 156 | 993863 | 100.897 | ug/l | 99 |
| 78) n-propylbenzene | 10.278 | 91 | 5220220 | 112.910 | ug/l | 99 |
| 79) 2-Chlorotoluene | 10.345 | 91 | 3018051 | 109.093 | ug/l | 99 |
| 80) 1,3,5-Trimethylbenzene | 10.464 | 105 | 3638030 | 115.284 | ug/l | 100 |
| 81) trans-1,4-Dichloro-2-b... | 9.927 | 75 | 545452 | 109.871 | ug/l | 97 |
| 82) 4-Chlorotoluene | 10.461 | 91 | 3573507 | 111.396 | ug/l | 100 |
| 83) tert-Butylbenzene | 10.789 | 119 | 3572813 | 113.541 | ug/l | 99 |
| 84) 1,2,4-Trimethylbenzene | 10.837 | 105 | 3601355 | 117.550 | ug/l | 100 |
| 85) sec-Butylbenzene | 11.011 | 105 | 4763689 | 114.135 | ug/l | 100 |
| 86) p-Isopropyltoluene | 11.165 | 119 | 3948556 | 113.666 | ug/l | 99 |
| 87) 1,3-Dichlorobenzene | 11.104 | 146 | 1970594 | 98.849 | ug/l | 99 |
| 88) 1,4-Dichlorobenzene | 11.194 | 146 | 2008676 | 91.172 | ug/l | 99 |
| 89) n-Butylbenzene | 11.577 | 91 | 3939852 | 118.754 | ug/l | 99 |
| 90) Hexachloroethane | 11.818 | 117 | 776688 | 90.794 | ug/l | 99 |
| 91) 1,2-Dichlorobenzene | 11.564 | 146 | 1886394 | 101.282 | ug/l | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.349 | 75 | 316446 | 100.015 | ug/l | 96 |
| 93) 1,2,4-Trichlorobenzene | 13.185 | 180 | 1244510 | 116.564 | ug/l | 100 |
| 94) Hexachlorobutadiene | 13.368 | 225 | 524789 | 94.597 | ug/l | 99 |
| 95) Naphthalene | 13.423 | 128 | 4442612 | 129.371 | ug/l | 100 |
| 96) 1,2,3-Trichlorobenzene | 13.667 | 180 | 1246406 | 114.143 | ug/l | 99 |

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039140.D
Acq On : 22 Sep 2025 13:49
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Quant Time: Sep 24 07:24:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

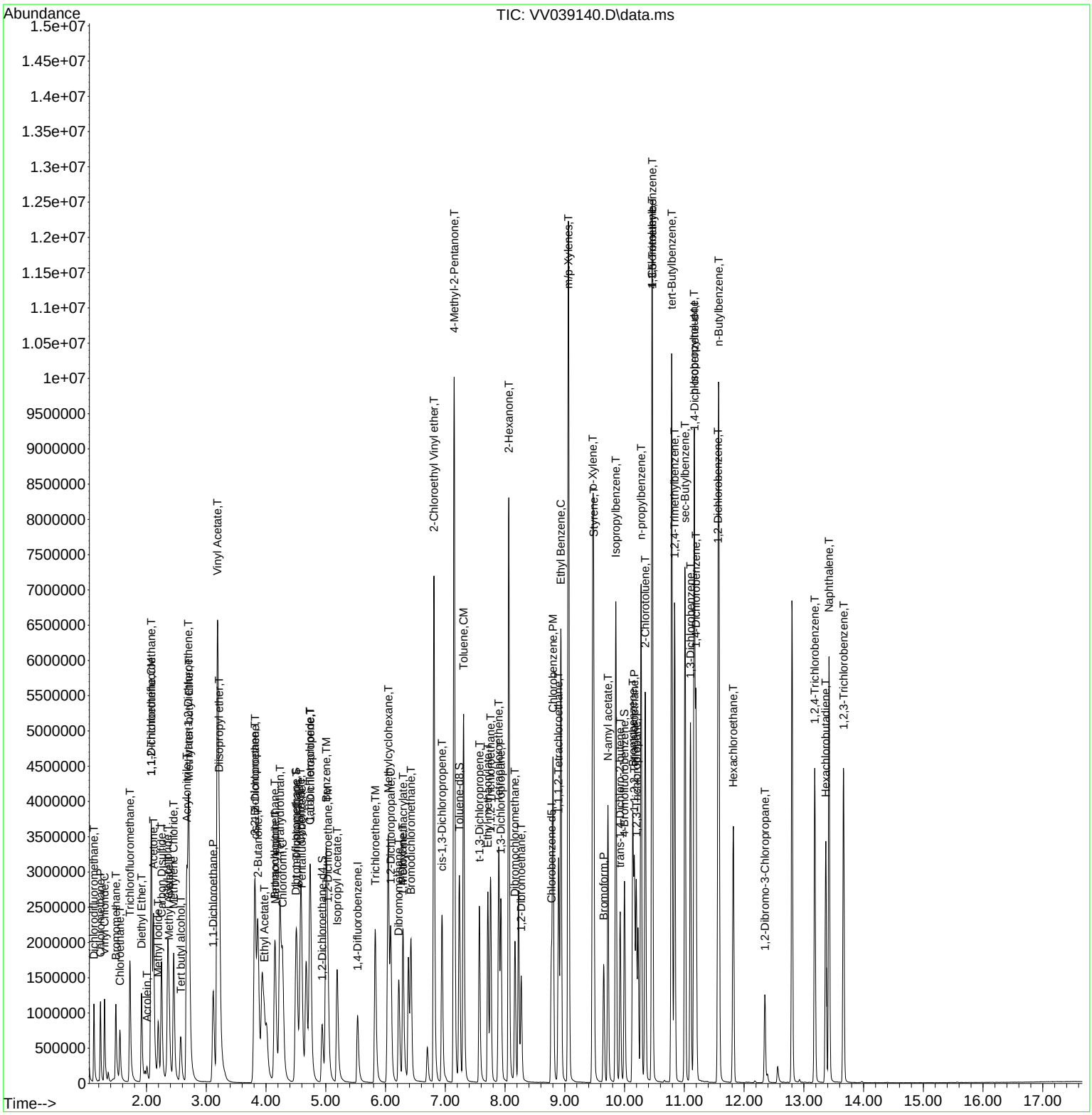
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

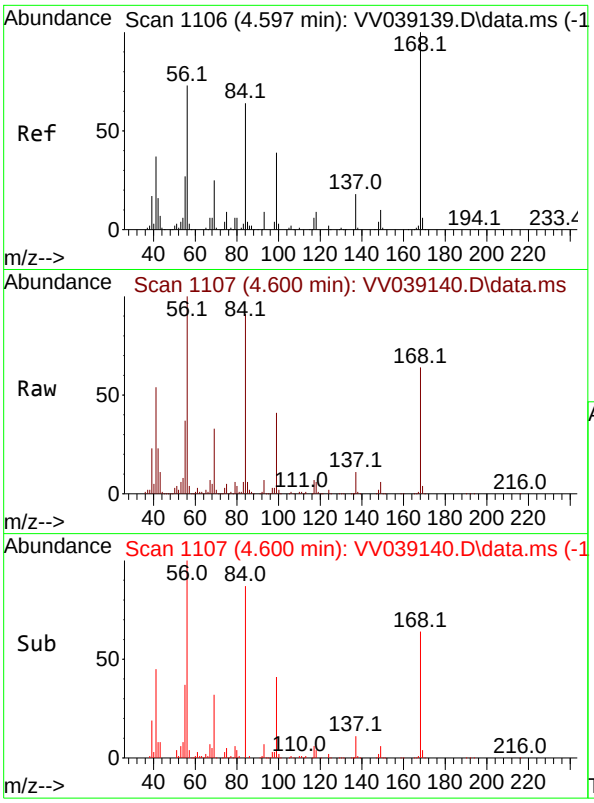
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039140.D
Acq On : 22 Sep 2025 13:49
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Quant Time: Sep 24 07:24:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration



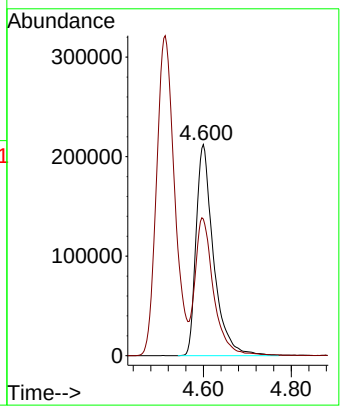


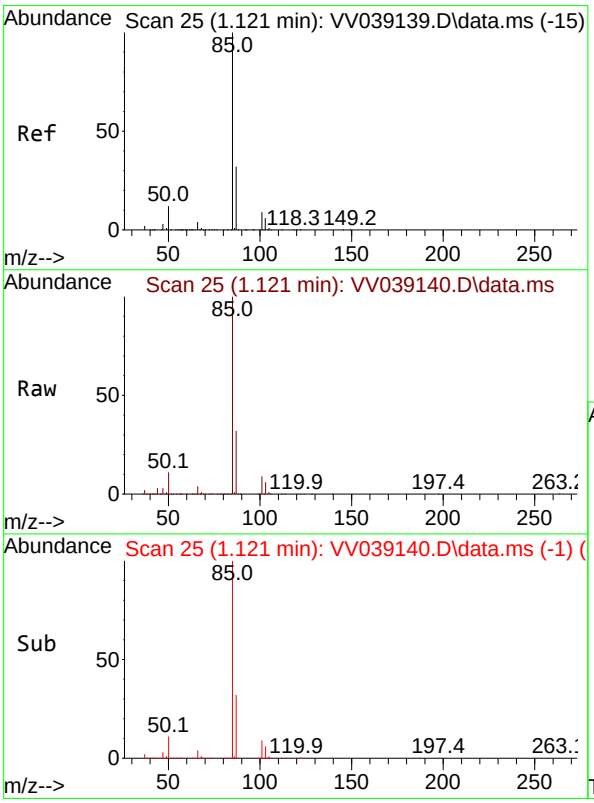

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion:168 Resp: 587274

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 64.4 | 49.6 | 74.4 |

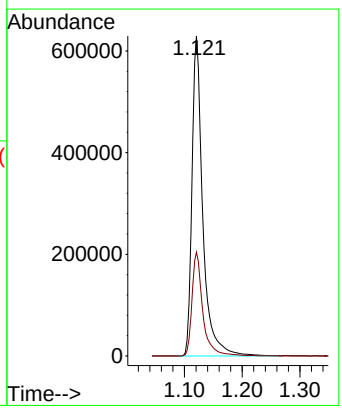


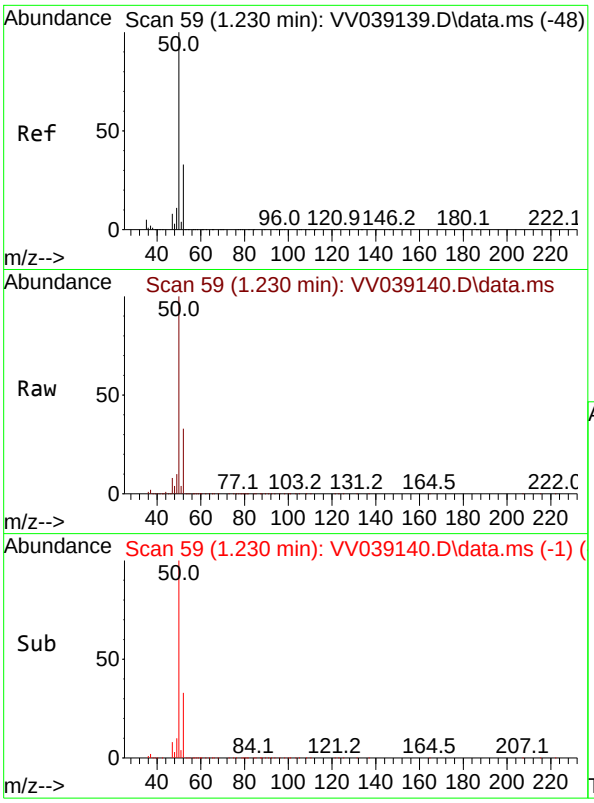




#2
Dichlorodifluoromethane
Concen: 88.278 ug/l
RT: 1.121 min Scan# 25
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 85 Resp: 820676

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.5 | 16.0 | 47.9 |



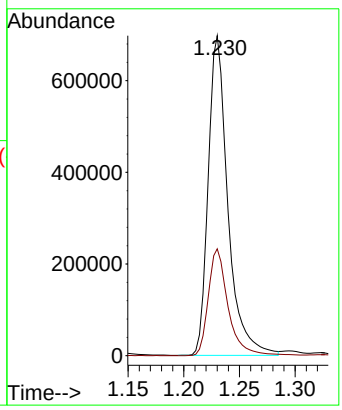


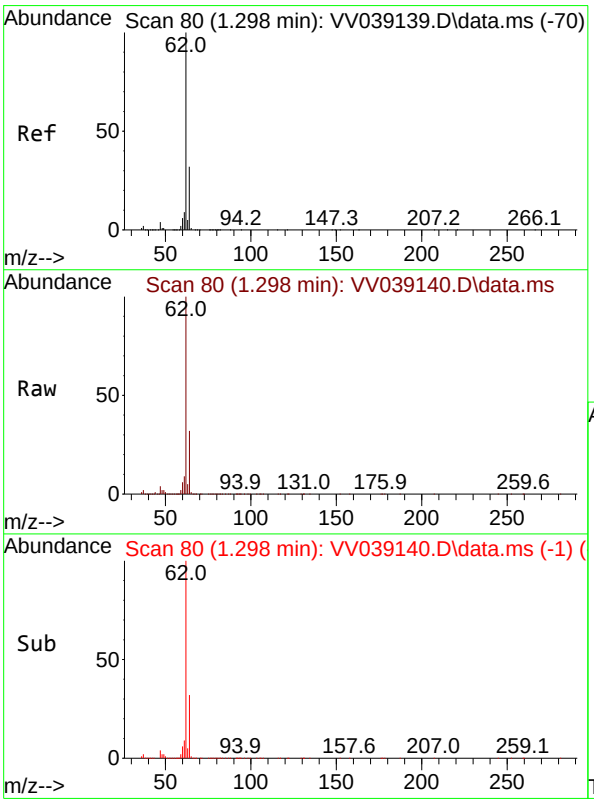

#3
Chloromethane
Concen: 85.806 ug/l
RT: 1.230 min Scan# 5
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion: 50 Resp: 856347

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.4 | 26.0 | 39.0 |

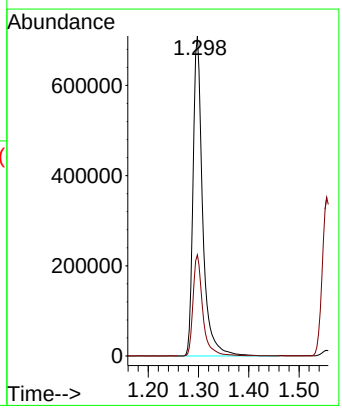


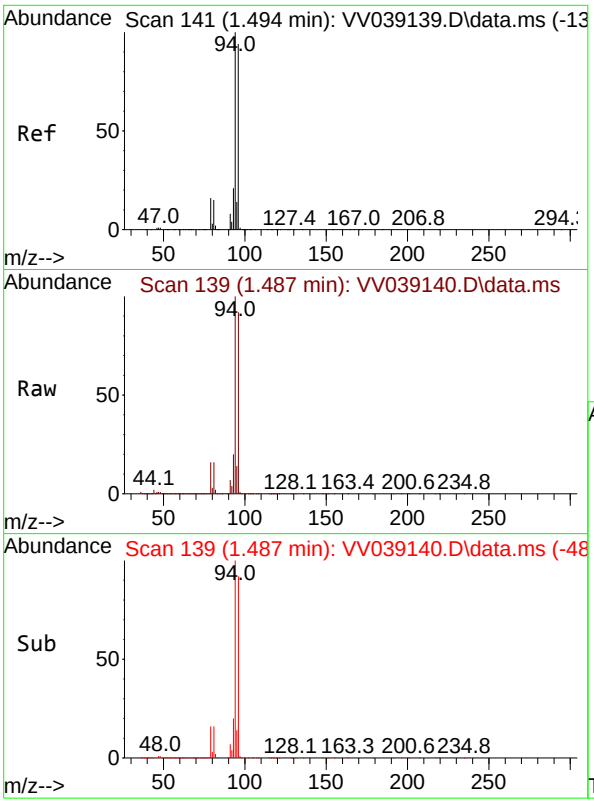




#4
Vinyl Chloride
Concen: 88.044 ug/l
RT: 1.298 min Scan# 80
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 62 Resp: 940694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.6 | 25.6 | 38.4 |



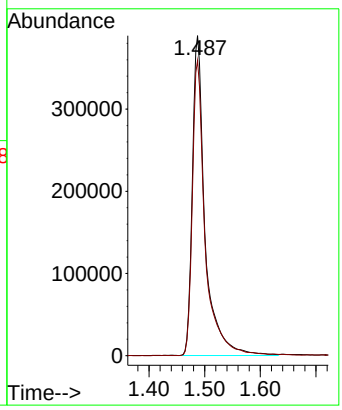


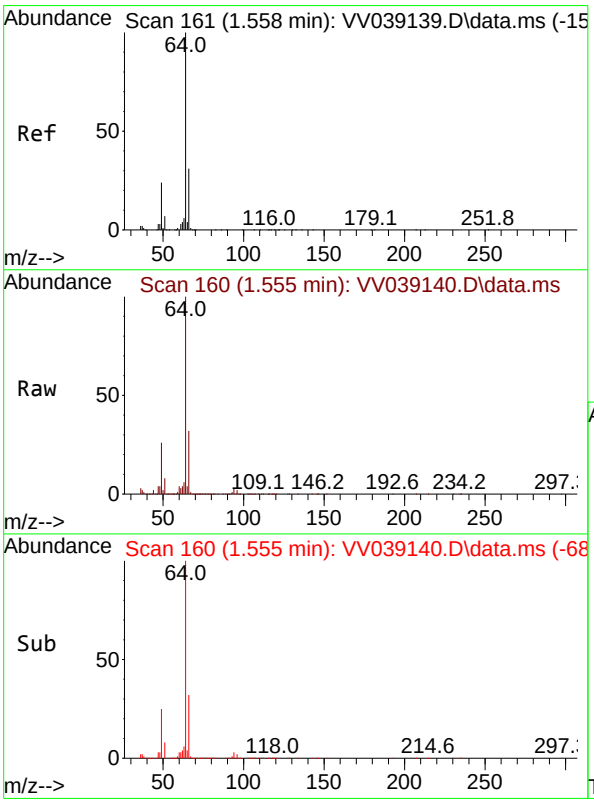

#5
Bromomethane
Concen: 91.446 ug/l
RT: 1.487 min Scan# 1
Delta R.T. -0.007 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion: 94 Resp: 615924

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 92.3 | 74.9 | 112.3 |

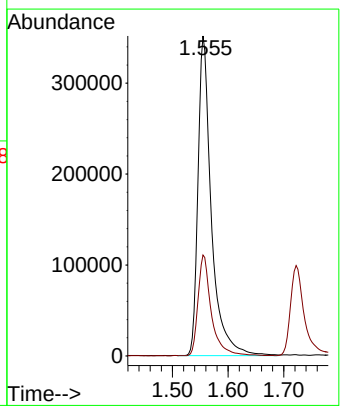


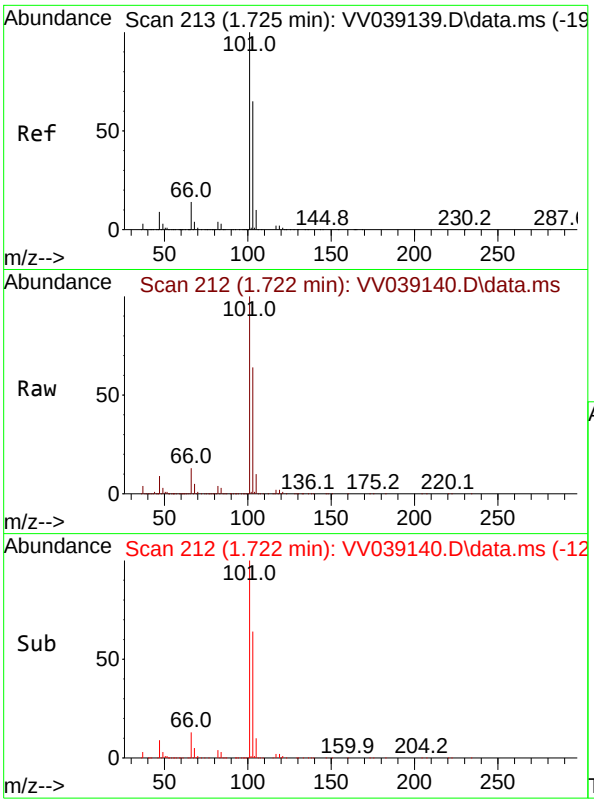




#6
Chloroethane
Concen: 100.067 ug/l
RT: 1.555 min Scan# 160
Delta R.T. -0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 64 Resp: 587651

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.5 | 24.6 | 36.8 |



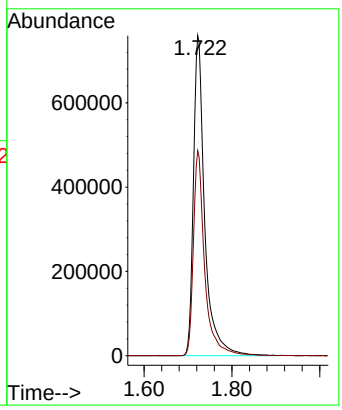


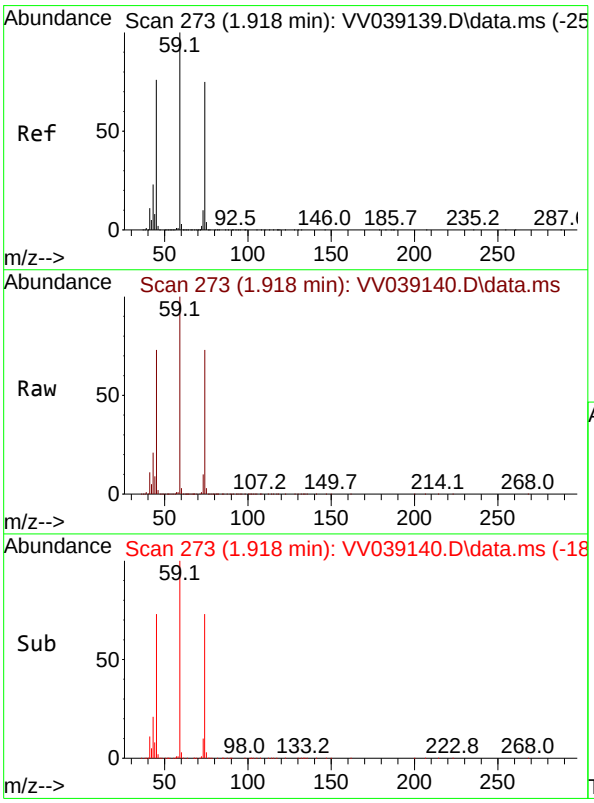

#7
Trichlorofluoromethane
Concen: 87.363 ug/l
RT: 1.722 min Scan# 21
Delta R.T. -0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion:101 Resp: 1351410

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.0 | 52.0 | 78.0 |

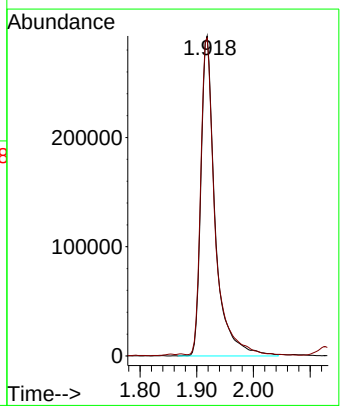


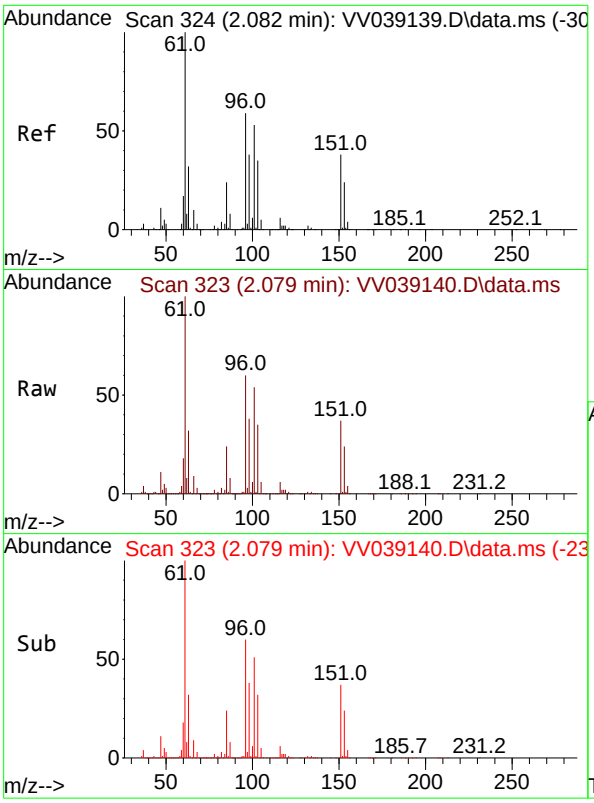




#8
Diethyl Ether
Concen: 88.990 ug/l
RT: 1.918 min Scan# 273
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 74 Resp: 511033

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 98.8 | 49.6 | 148.8 |



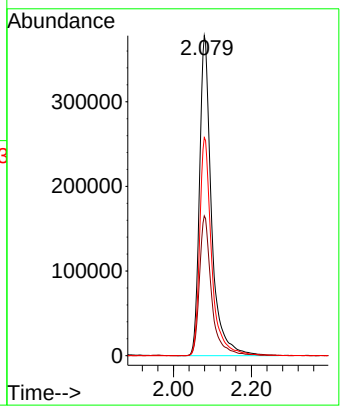


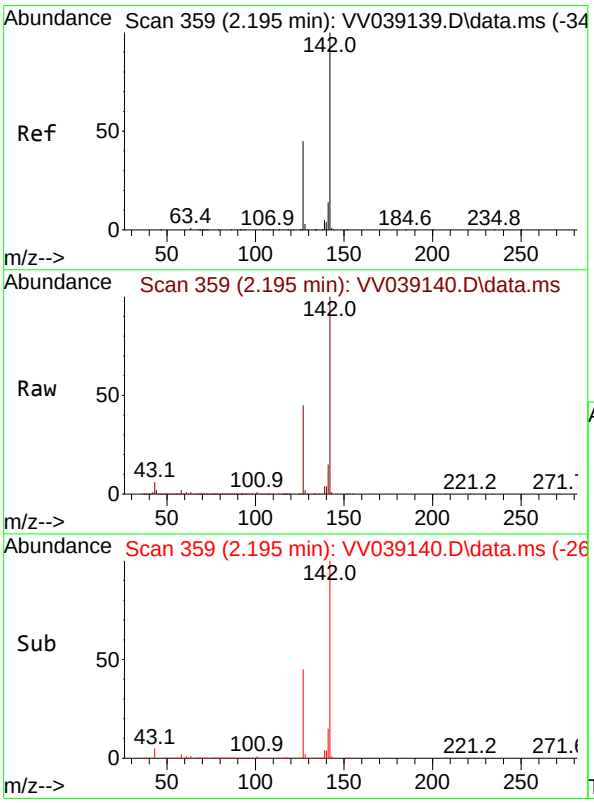

#9
1,1,2-Trichlorotrifluoroethane
Concen: 87.593 ug/l
RT: 2.079 min Scan# 3
Delta R.T. -0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion:101 Resp: 806216

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 44.0 | 36.2 | 54.2 |
| 151 | 68.1 | 56.3 | 84.5 |

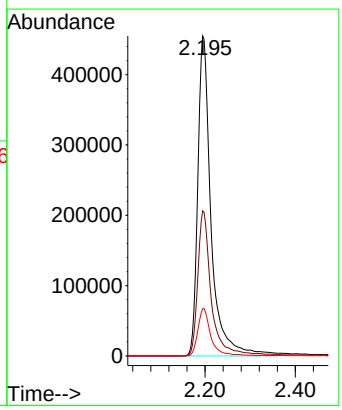


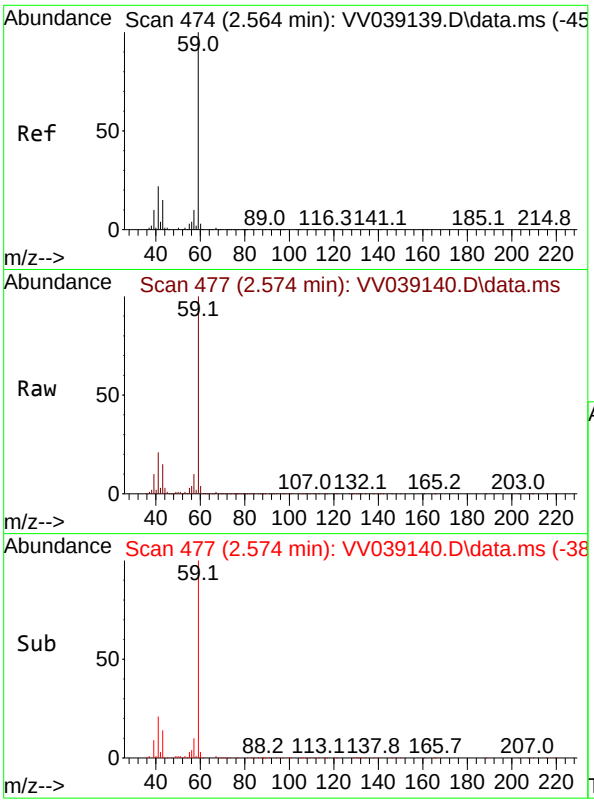




#10
Methyl Iodide
Concen: 106.294 ug/l
RT: 2.195 min Scan# 359
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:142 Resp: 931666

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 45.2 | 36.3 | 54.5 |
| 141 | 14.1 | 11.2 | 16.8 |



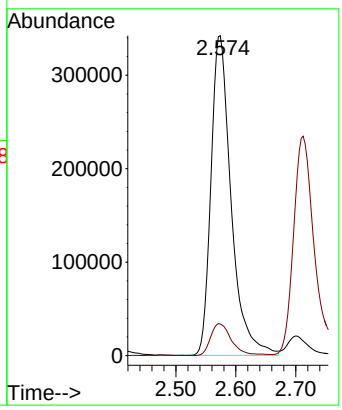


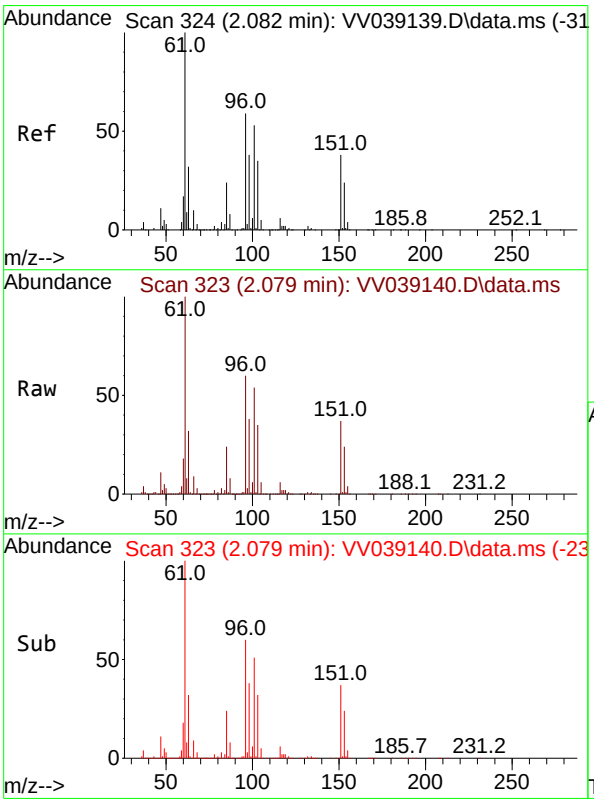

#11
Tert butyl alcohol
Concen: 444.608 ug/l
RT: 2.574 min Scan# 4
Delta R.T. 0.010 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion: 59 Resp: 798702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.2 | 7.8 | 11.8 |

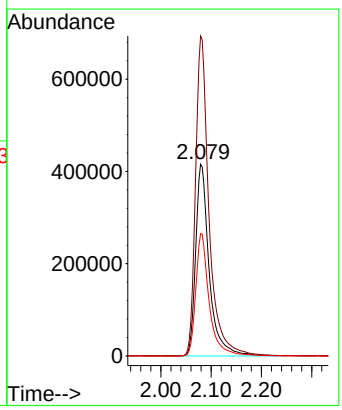


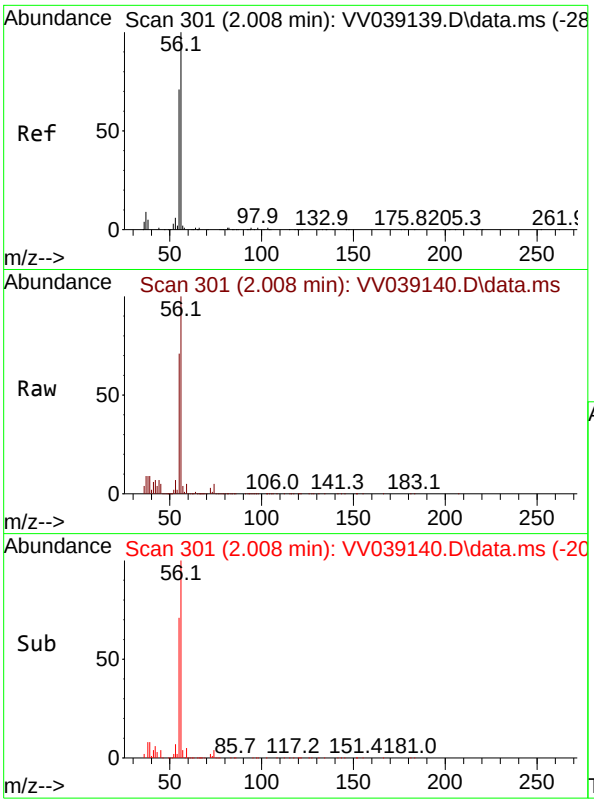




#12
1,1-Dichloroethene
Concen: 87.914 ug/l
RT: 2.079 min Scan# 323
Delta R.T. -0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 96 Resp: 778436

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 167.1 | 136.0 | 204.0 |
| 98 | 63.9 | 51.0 | 76.6 |



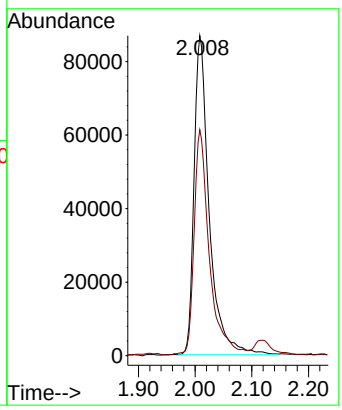


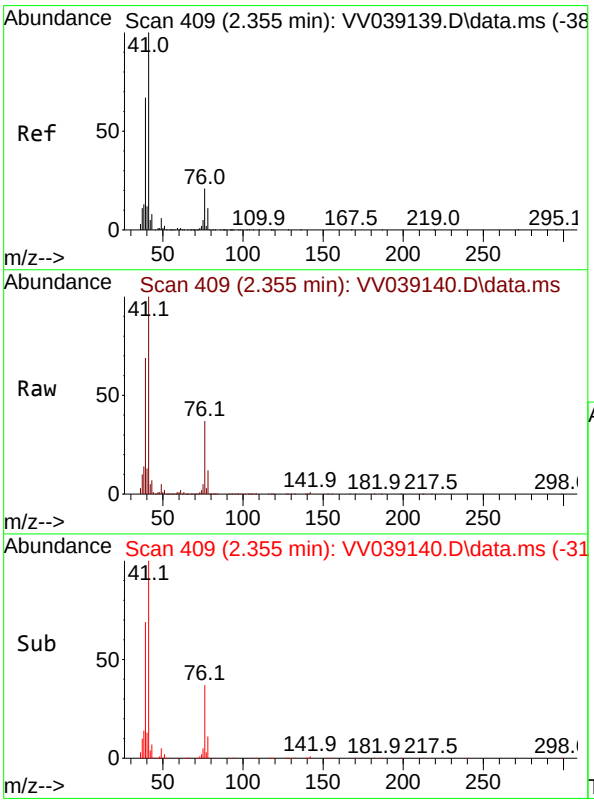

#13
Acrolein
Concen: 515.691 ug/l
RT: 2.008 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion: 56 Resp: 160749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 70.8 | 56.2 | 84.4 |

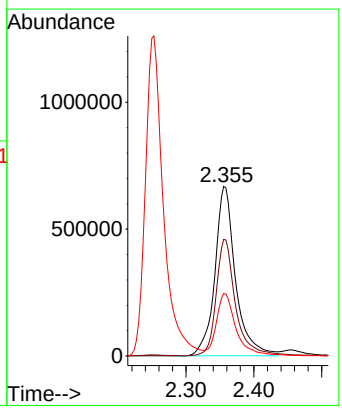


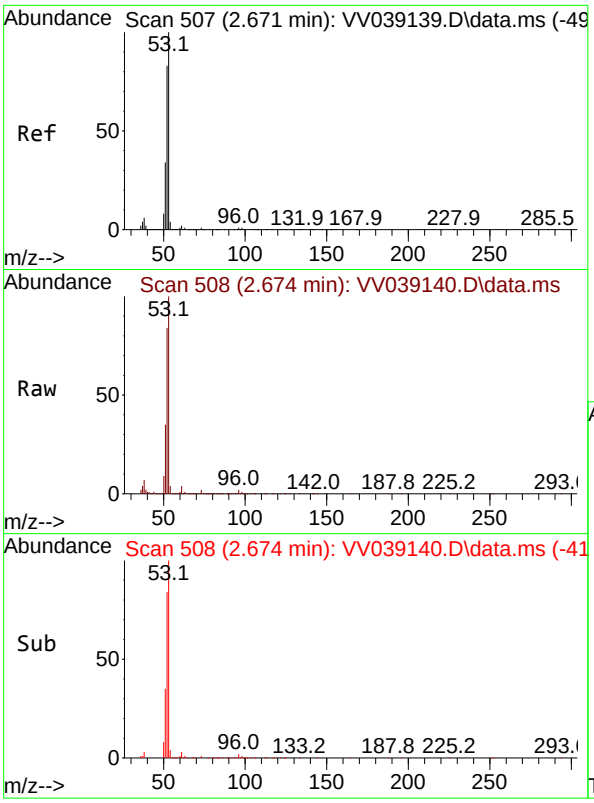




#14
Allyl chloride
Concen: 89.708 ug/l
RT: 2.355 min Scan# 409
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 41 Resp: 1418889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 64.7 | 51.0 | 76.6 |
| 76 | 35.0 | 28.2 | 42.4 |



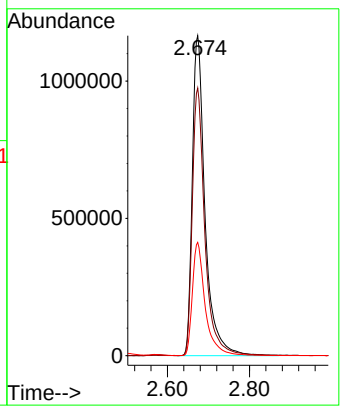


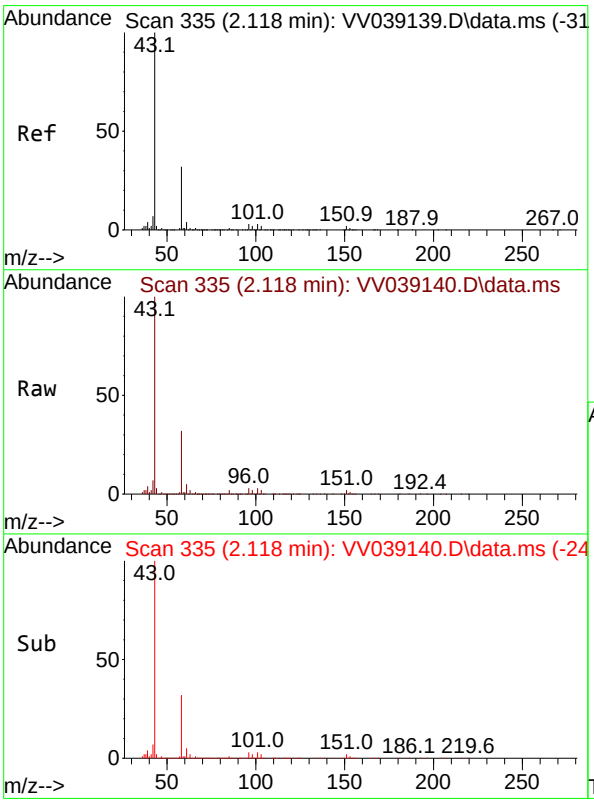

#15
Acrylonitrile
Concen: 435.771 ug/l
RT: 2.674 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion: 53 Resp: 2509475

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.7 | 66.1 | 99.1 |
| 51 | 35.6 | 28.5 | 42.7 |

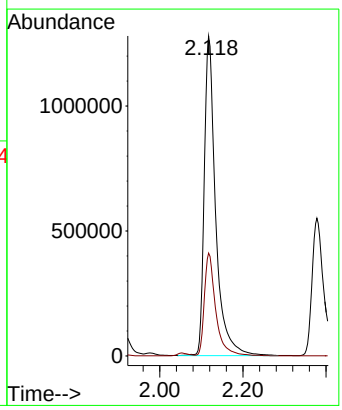


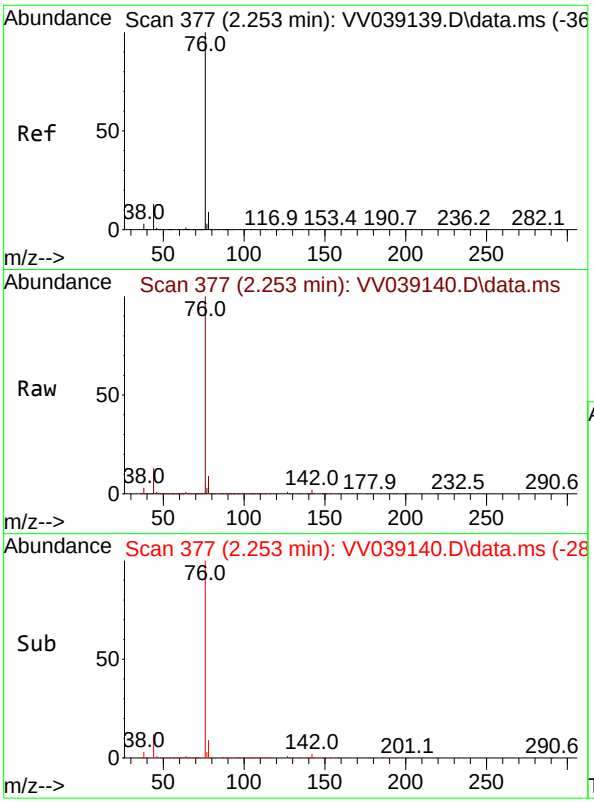




#16
Acetone
Concen: 499.795 ug/l
RT: 2.118 min Scan# 335
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 43 Resp: 2432444

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.1 | 25.8 | 38.6 |



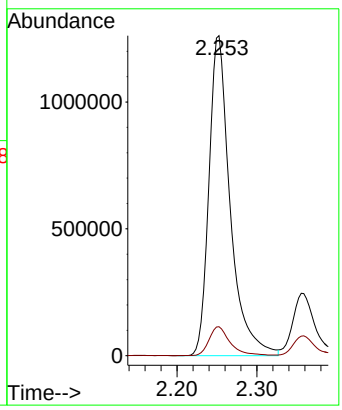


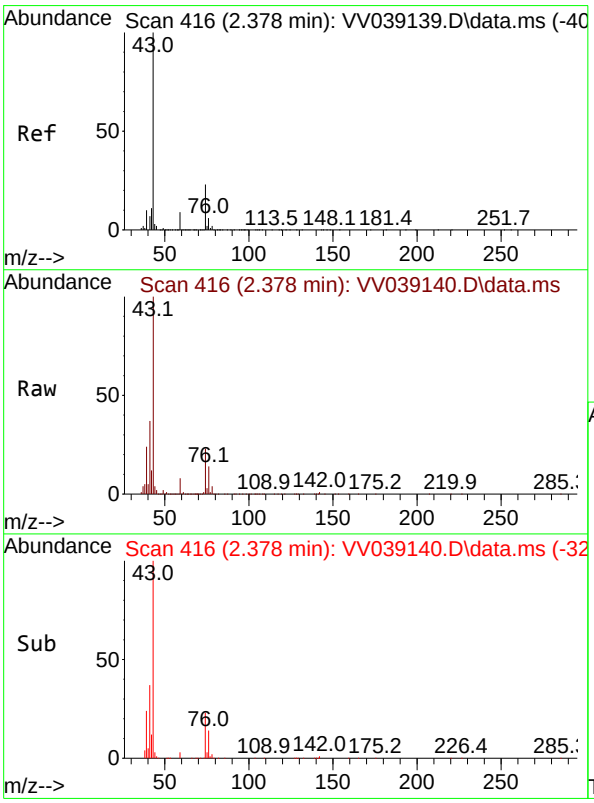

#17
Carbon Disulfide
Concen: 86.125 ug/l
RT: 2.253 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion: 76 Resp: 2332239

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.0 | 7.4 | 11.0 |

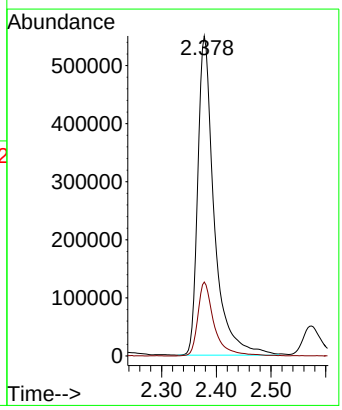


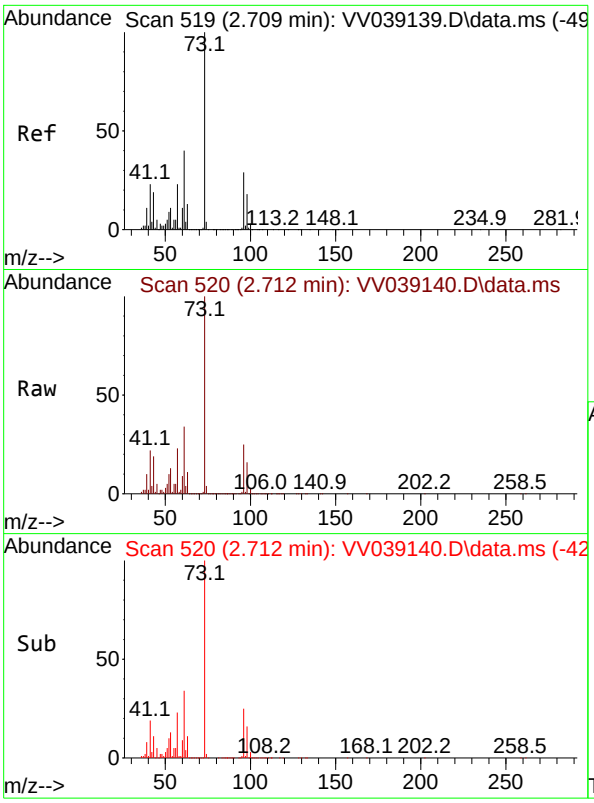




#18
Methyl Acetate
Concen: 90.753 ug/l
RT: 2.378 min Scan# 416
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 43 Resp: 1142900

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 23.2 | 18.6 | 27.8 |



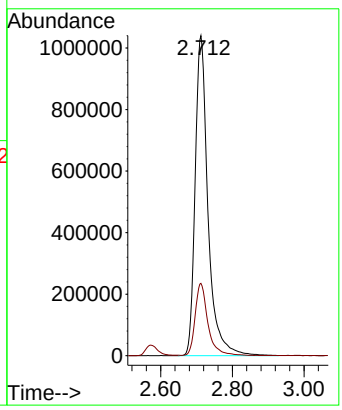


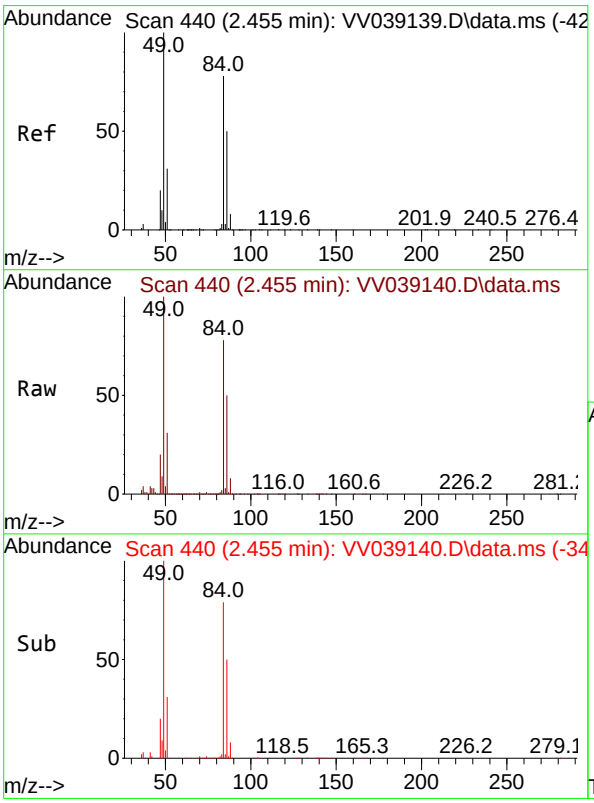

#19
Methyl tert-butyl Ether
Concen: 91.667 ug/l
RT: 2.712 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion: 73 Resp: 2586428

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.6 | 18.2 | 27.4 |

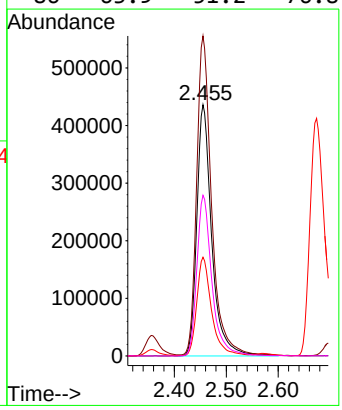


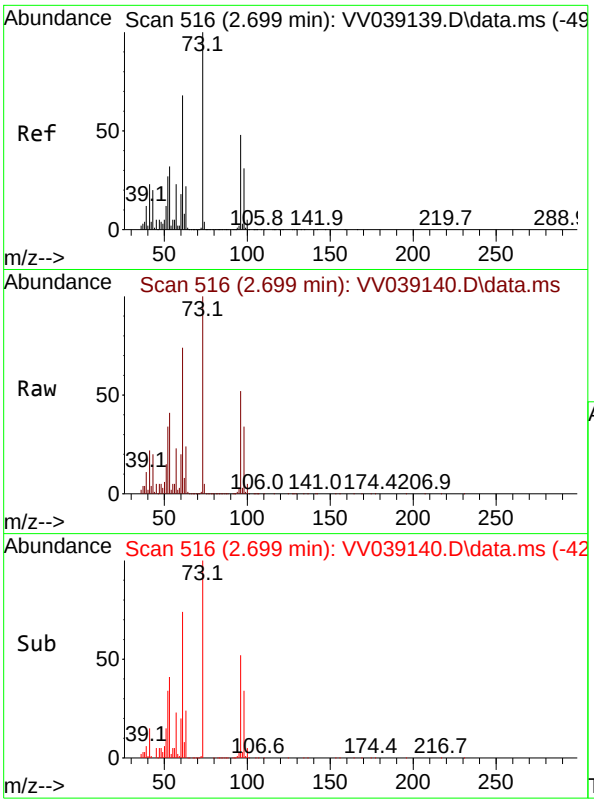




#20
Methylene Chloride
Concen: 100.038 ug/l
RT: 2.455 min Scan# 440
Delta R.T. 0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 84 Resp: 870955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 127.1 | 102.8 | 154.2 |
| 51 | 39.2 | 31.9 | 47.9 |
| 86 | 63.9 | 51.2 | 76.8 |



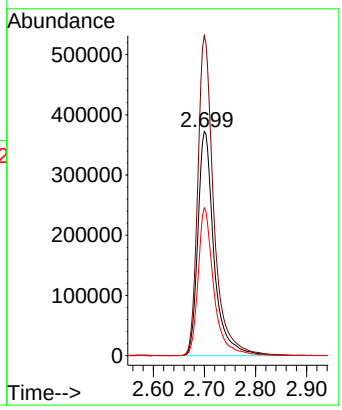


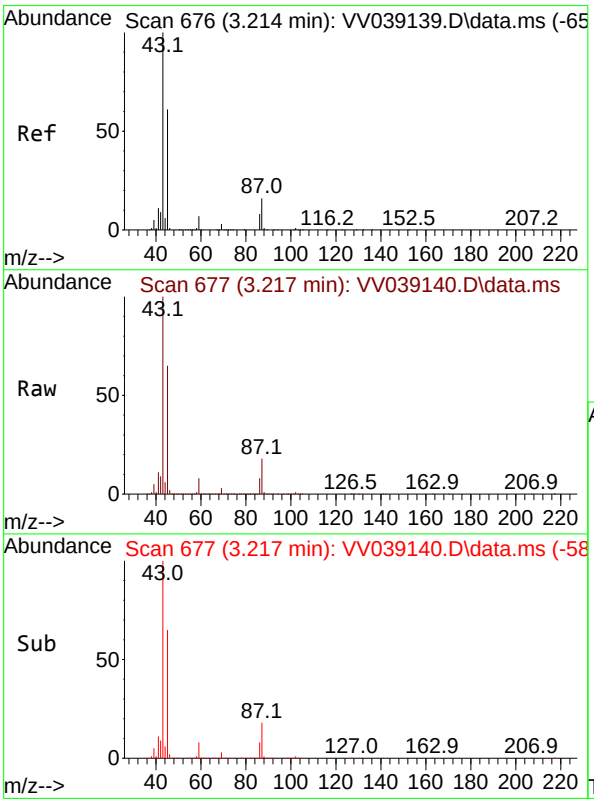

#21
trans-1,2-Dichloroethene
Concen: 86.701 ug/l
RT: 2.699 min Scan# 5
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion: 96 Resp: 817275

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 142.7 | 112.8 | 169.2 |
| 98 | 65.9 | 51.1 | 76.7 |

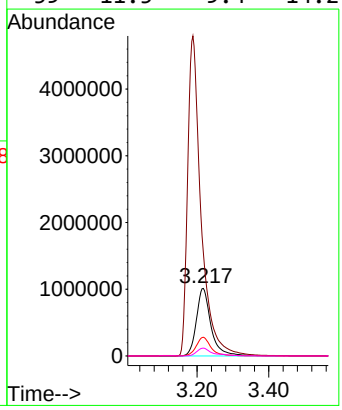


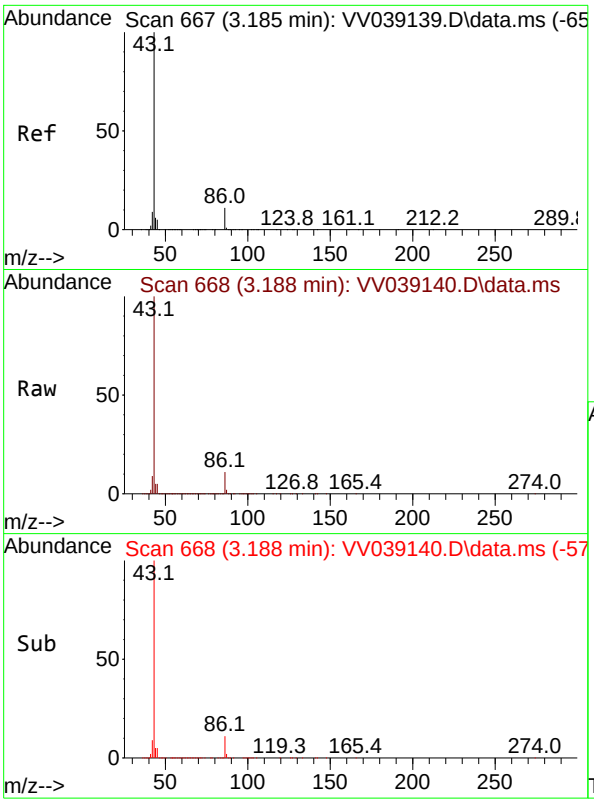




#22
Diisopropyl ether
Concen: 94.428 ug/l
RT: 3.217 min Scan# 677
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 45 Resp: 2857568

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 153.6 | 130.9 | 196.3 |
| 87 | 27.6 | 21.1 | 31.7 |
| 59 | 11.5 | 9.4 | 14.2 |



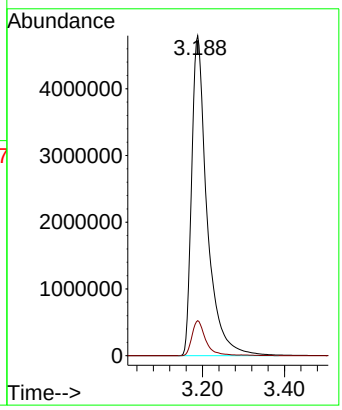


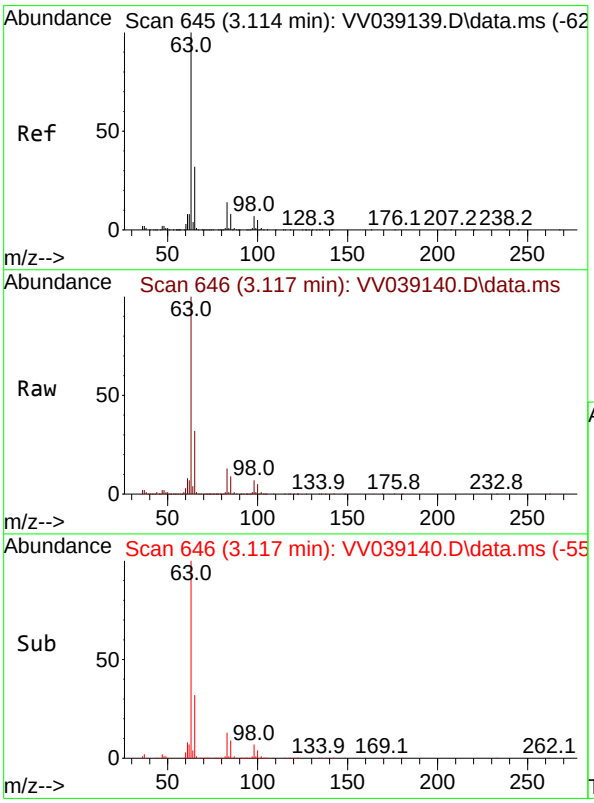

#23
Vinyl Acetate
Concen: 472.148 ug/l
RT: 3.188 min Scan# 6
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion: 43 Resp:12498986

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.9 | 8.4 | 12.6 |

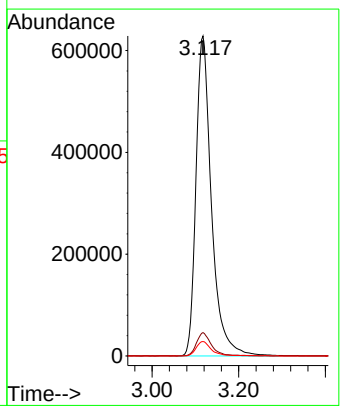


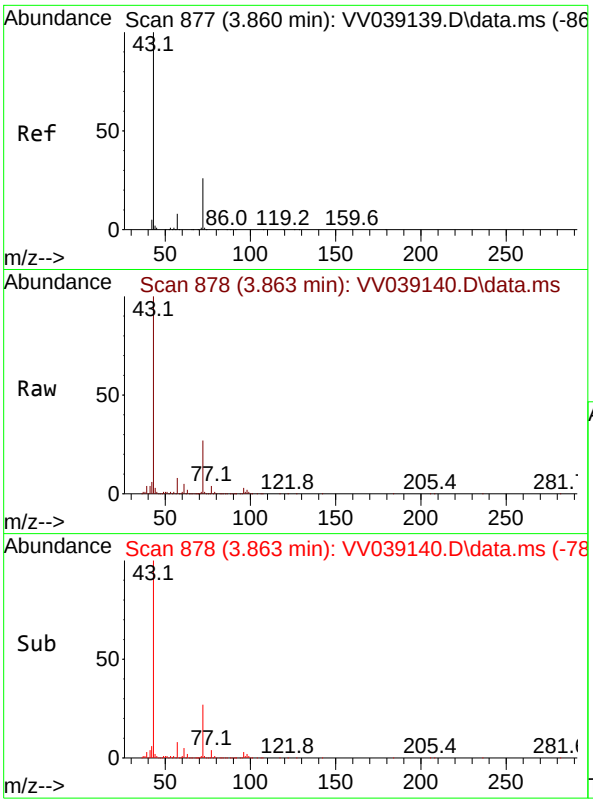




#24
1,1-Dichloroethane
Concen: 84.338 ug/l
RT: 3.117 min Scan# 646
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 63 Resp: 1560774

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.3 | 3.4 | 10.2 |
| 100 | 4.5 | 2.2 | 6.6 |



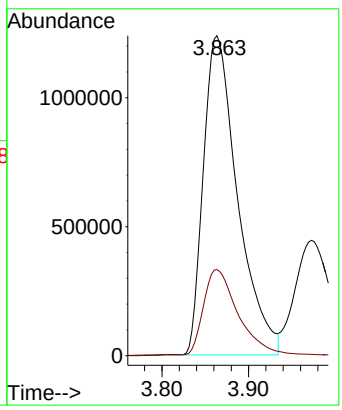


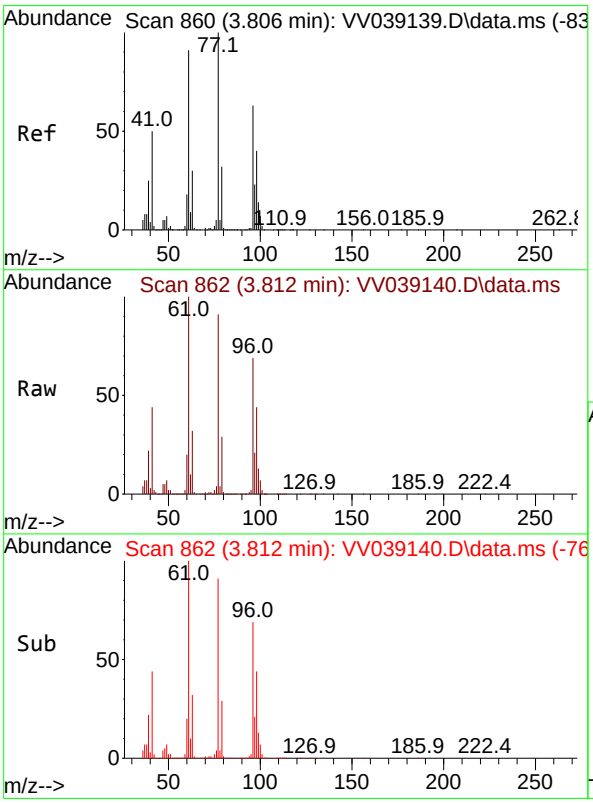

#25
2-Butanone
Concen: 508.801 ug/l
RT: 3.863 min Scan# 8
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion: 43 Resp: 3404031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 26.6 | 21.0 | 31.6 |

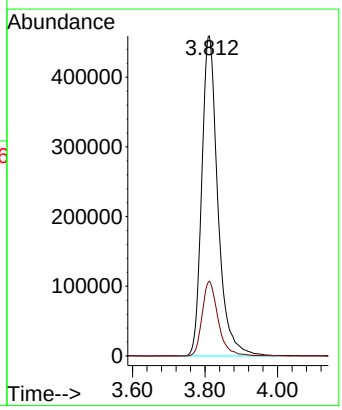


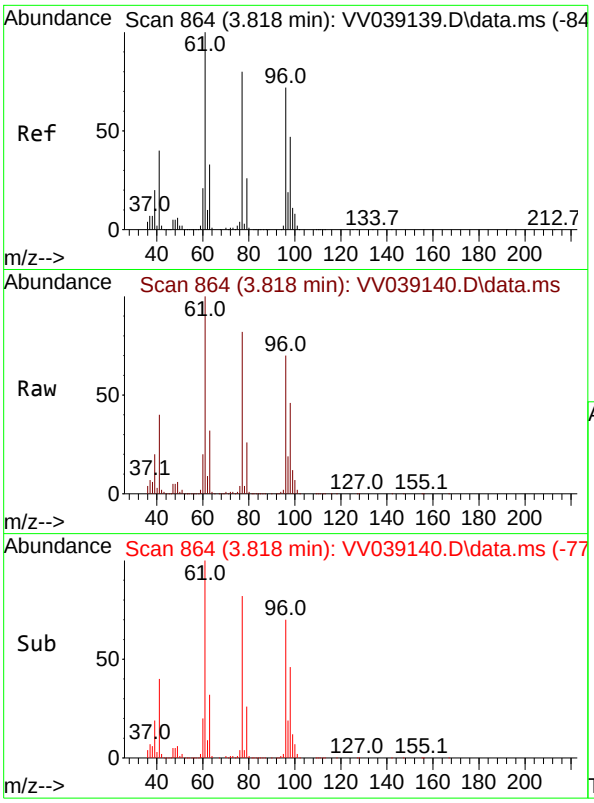




#26
2,2-Dichloropropane
Concen: 86.559 ug/l
RT: 3.812 min Scan# 862
Delta R.T. 0.006 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 77 Resp: 1414724

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.2 | 11.6 | 34.7 |



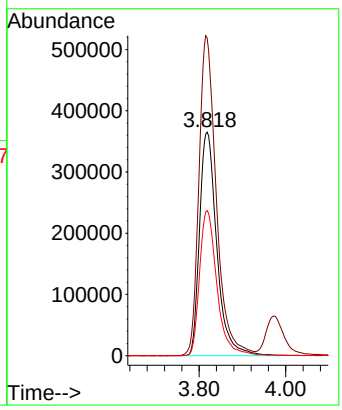


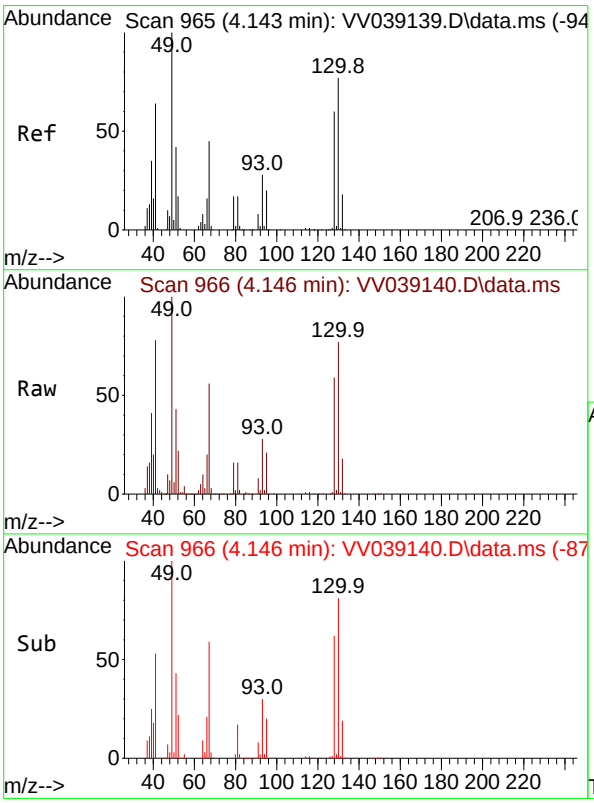

#27
cis-1,2-Dichloroethene
Concen: 97.210 ug/l
RT: 3.818 min Scan# 8
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion: 96 Resp: 1010617

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 144.0 | 0.0 | 286.4 |
| 98 | 64.9 | 0.0 | 126.6 |

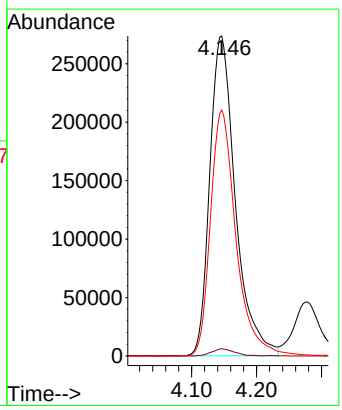


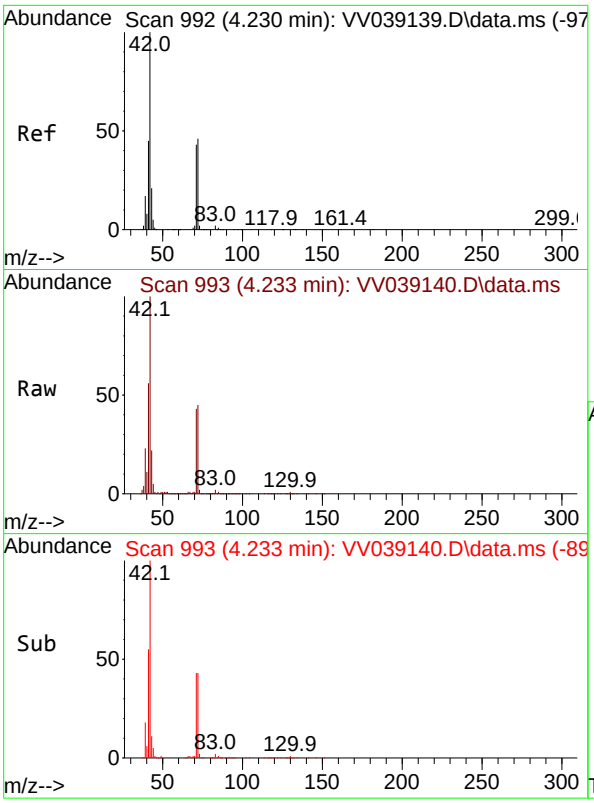




#28
Bromochloromethane
Concen: 91.624 ug/l
RT: 4.146 min Scan# 966
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 49 Resp: 748549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.0 | 0.0 | 4.2 |
| 130 | 76.8 | 60.2 | 90.2 |



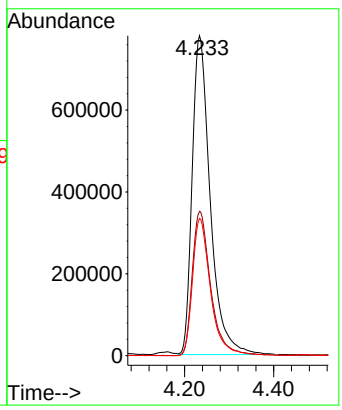


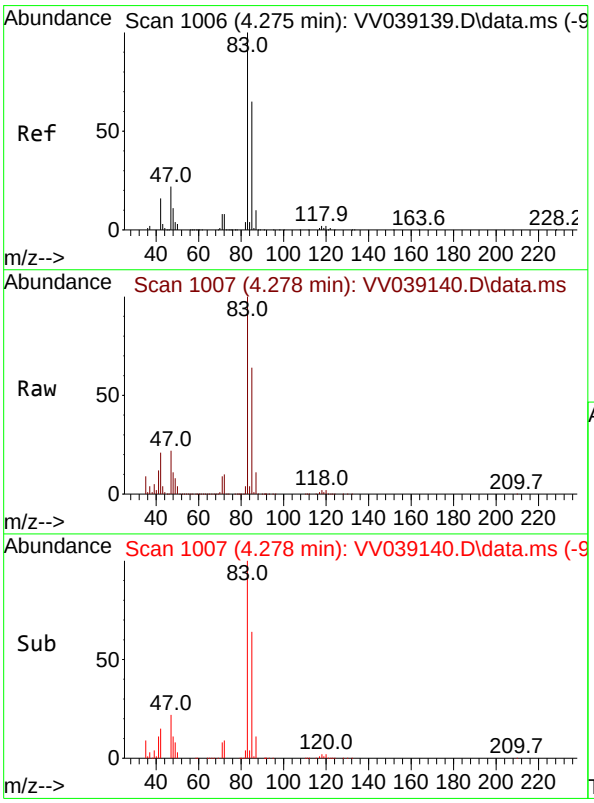

#29
Tetrahydrofuran
Concen: 516.116 ug/l
RT: 4.233 min Scan# 9
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion: 42 Resp: 2198745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 46.2 | 36.3 | 54.5 |
| 71 | 43.0 | 34.3 | 51.5 |

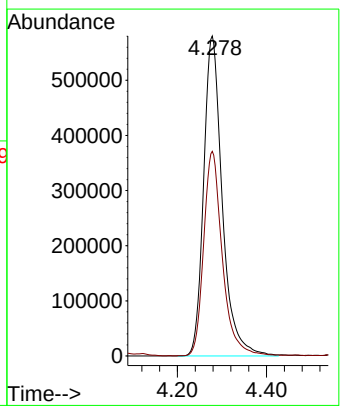


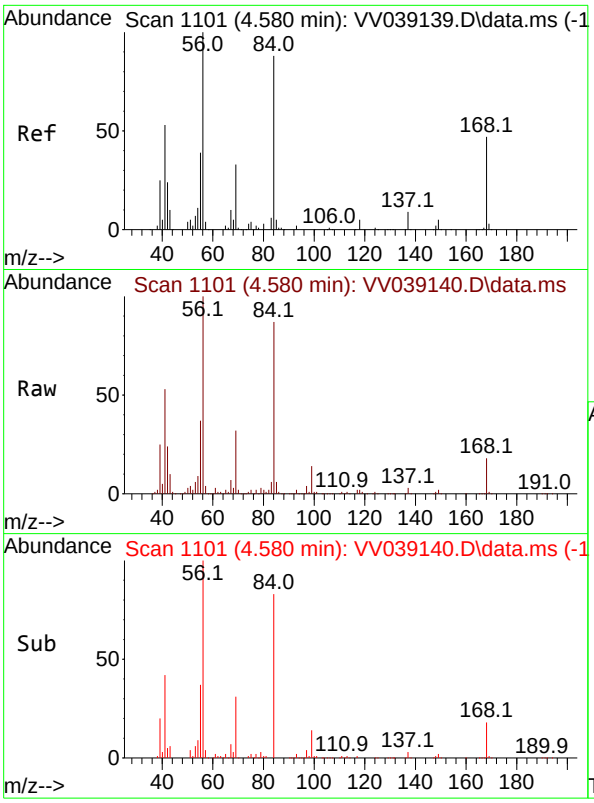




#30
Chloroform
Concen: 87.087 ug/l
RT: 4.278 min Scan# 1007
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 83 Resp: 1682895

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.9 | 52.1 | 78.1 |



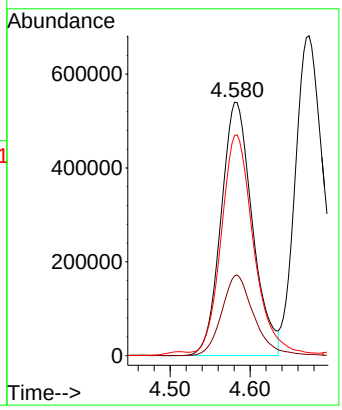


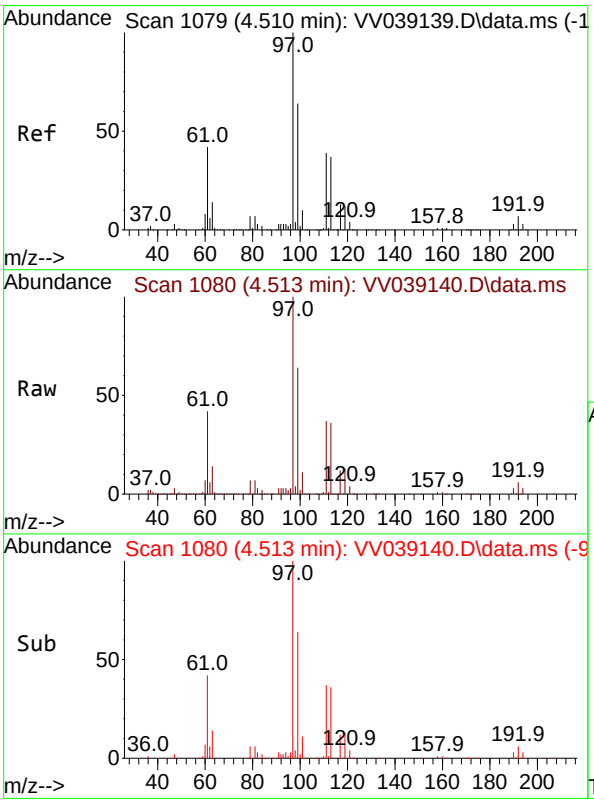

#31
Cyclohexane
Concen: 97.182 ug/l
RT: 4.580 min Scan# 11
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion: 56 Resp: 1473260

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 31.5 | 26.2 | 39.2 |
| 84 | 85.3 | 70.3 | 105.5 |

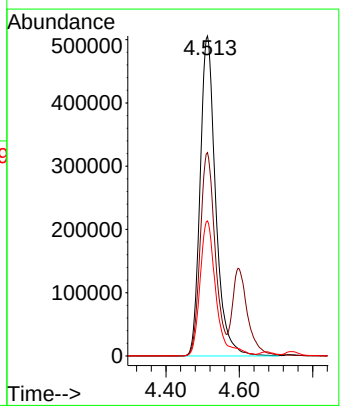


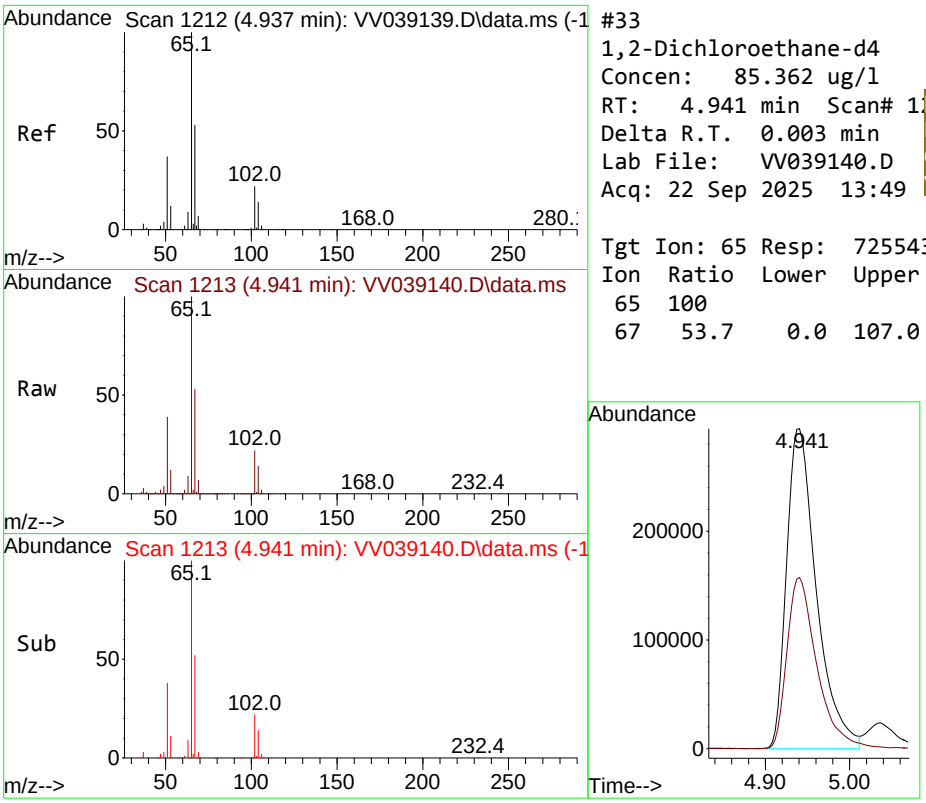




#32
1,1,1-Trichloroethane
Concen: 88.700 ug/l
RT: 4.513 min Scan# 1080
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 97 Resp: 1483938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 61.3 | 49.6 | 74.4 |
| 61 | 43.5 | 34.5 | 51.7 |





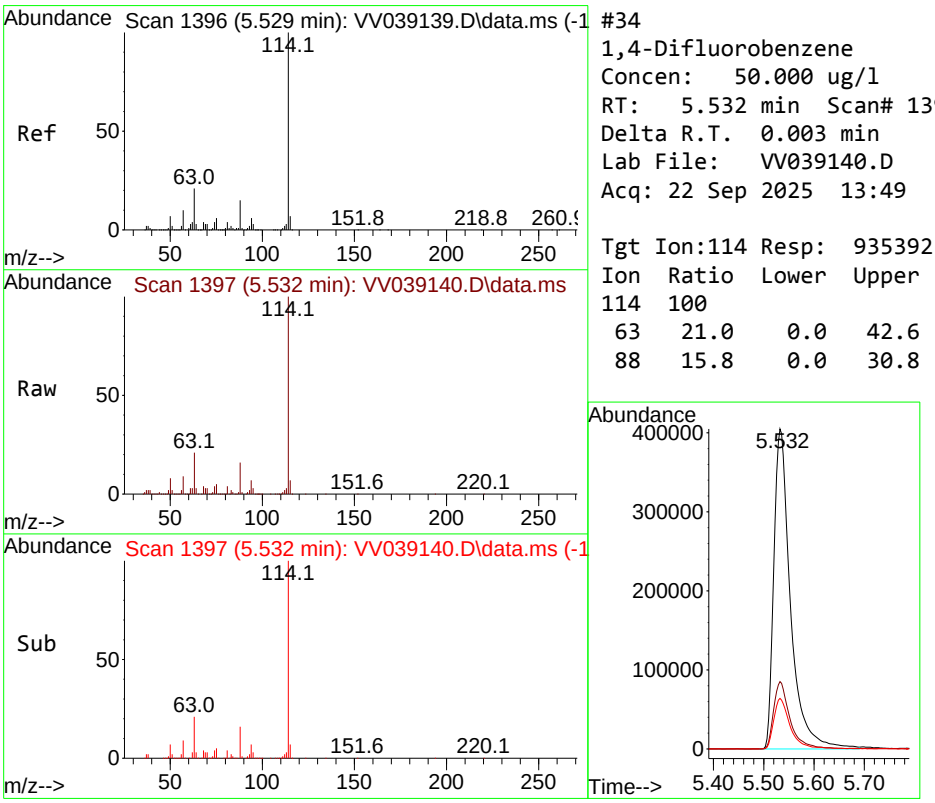

#33
1,2-Dichloroethane-d4
Concen: 85.362 ug/l
RT: 4.941 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion: 65 Resp: 725543

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.7 | 0.0 | 107.0 |

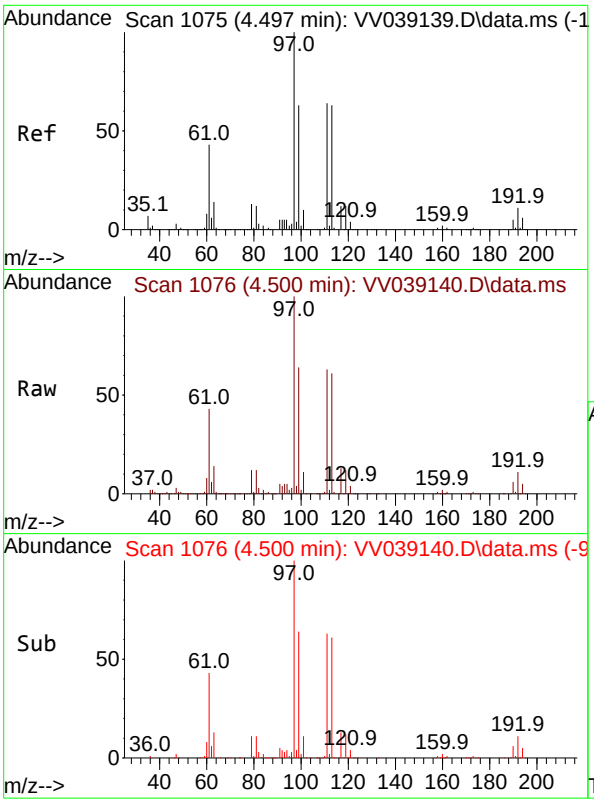



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 1397
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:114 Resp: 935392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.0 | 0.0 | 42.6 |
| 88 | 15.8 | 0.0 | 30.8 |

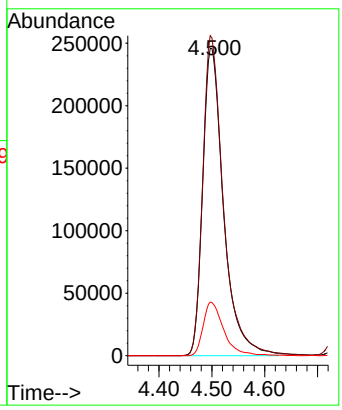


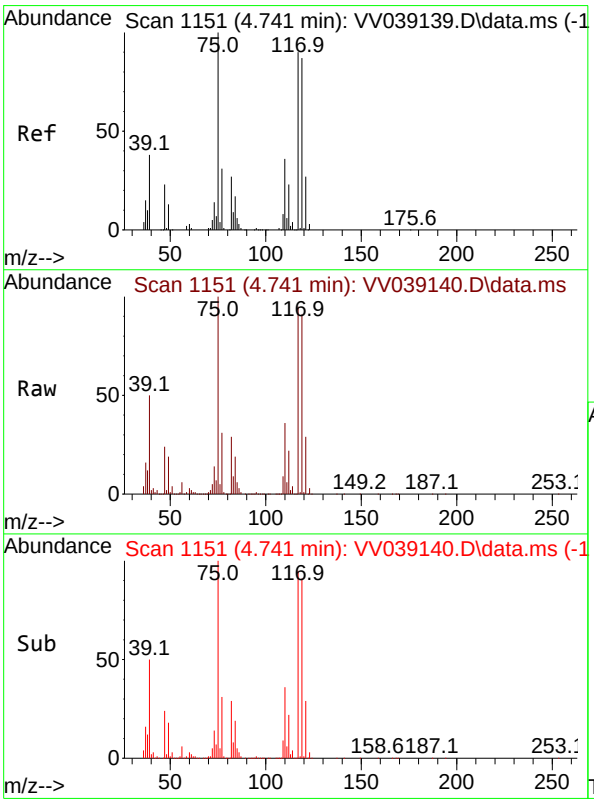

#35
Dibromofluoromethane
Concen: 89.684 ug/l
RT: 4.500 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion:113 Resp: 674408

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.8 | 82.4 | 123.6 |
| 192 | 17.0 | 13.8 | 20.8 |

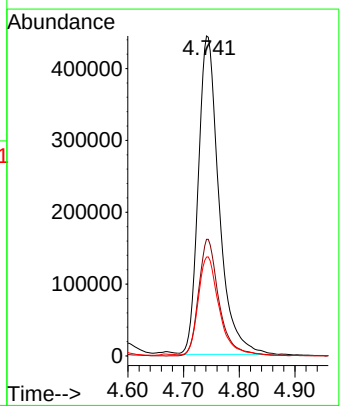


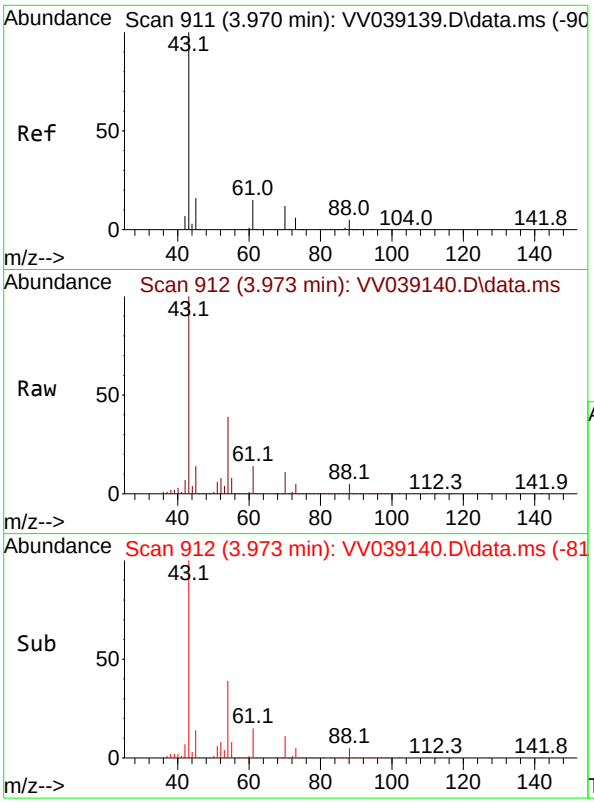




#36
1,1-Dichloropropene
Concen: 99.944 ug/l
RT: 4.741 min Scan# 1151
Delta R.T. 0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 75 Resp: 1144520

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 36.3 | 18.1 | 54.1 |
| 77 | 31.3 | 24.8 | 37.2 |



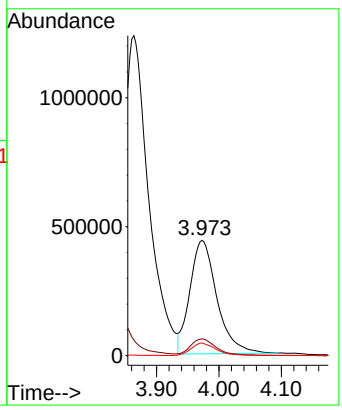


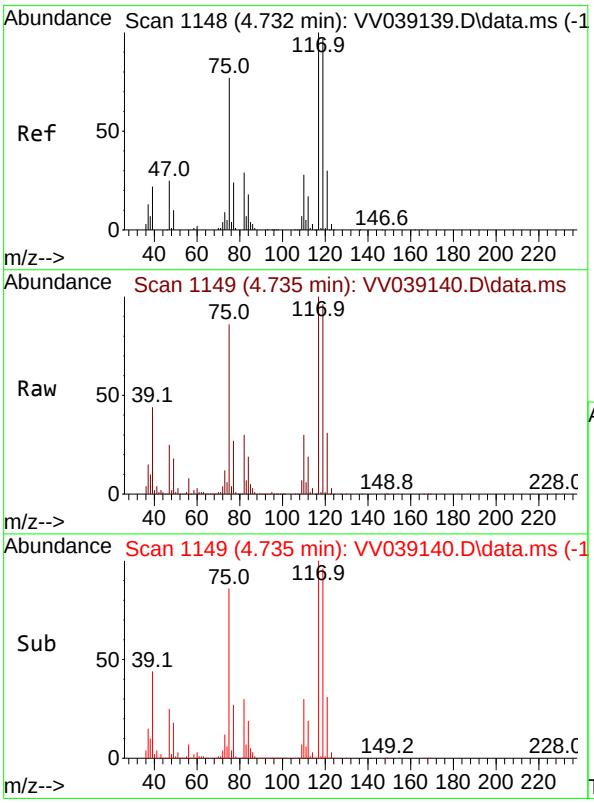

#37
Ethyl Acetate
Concen: 94.580 ug/l
RT: 3.973 min Scan# 91
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion: 43 Resp: 1328655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.0 | 10.3 | 15.5 |
| 70 | 10.0 | 8.0 | 12.0 |

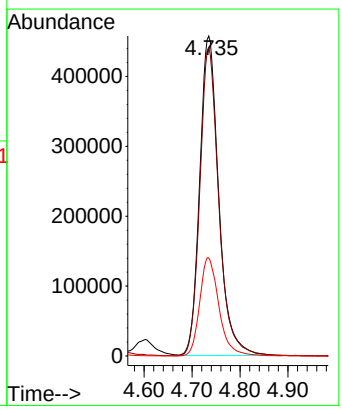


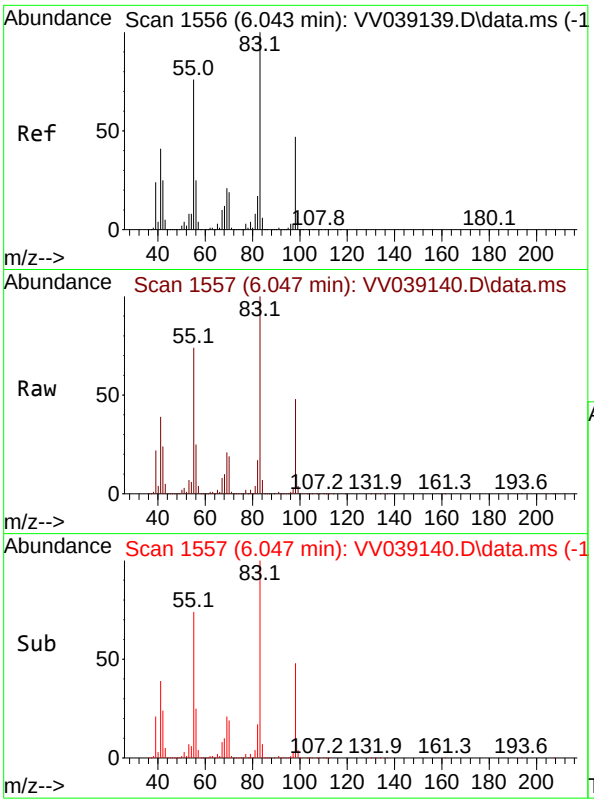




#38
Carbon Tetrachloride
Concen: 91.566 ug/l
RT: 4.735 min Scan# 1149
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:117 Resp: 1263028

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 96.4 | 77.2 | 115.8 |
| 121 | 30.7 | 24.2 | 36.2 |



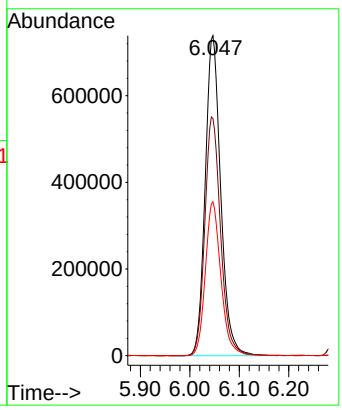


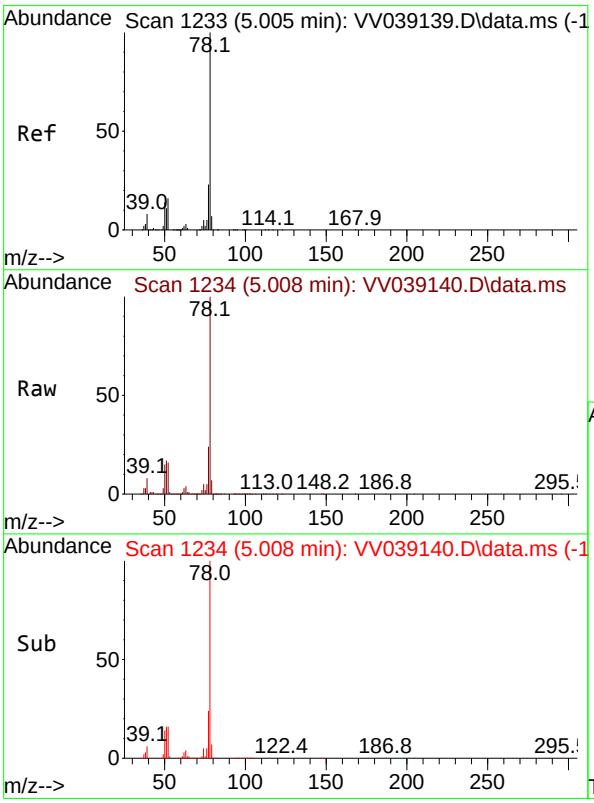

#39
Methylcyclohexane
Concen: 116.766 ug/l
RT: 6.047 min Scan# 1
Delta R.T. 0.004 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion: 83 Resp: 1603169

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 74.1 | 60.5 | 90.7 |
| 98 | 48.1 | 37.8 | 56.6 |

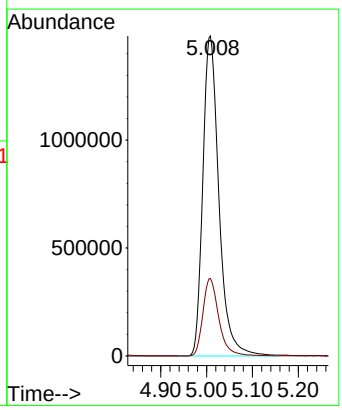


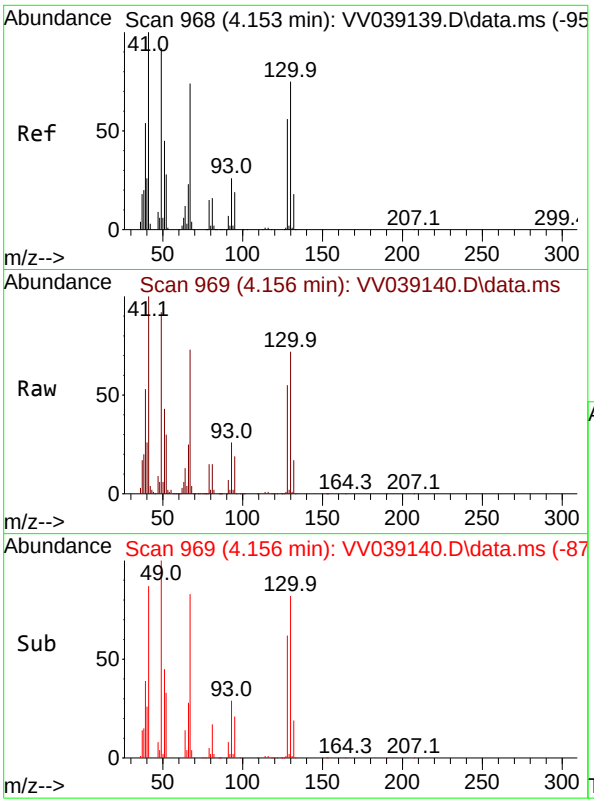




#40
Benzene
Concen: 97.560 ug/l
RT: 5.008 min Scan# 1234
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 78 Resp: 3611886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.2 | 18.7 | 28.1 |



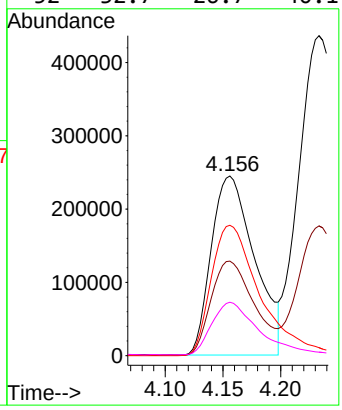


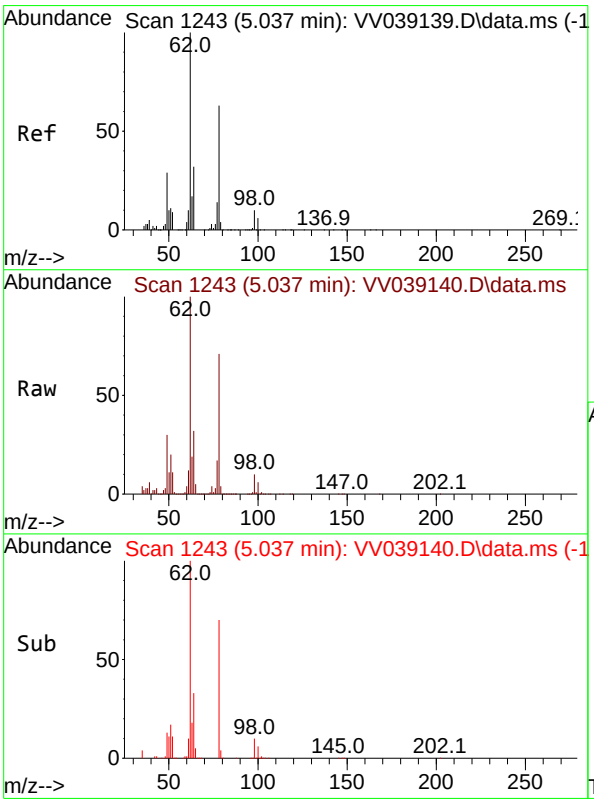

#41
Methacrylonitrile
Concen: 100.494 ug/l
RT: 4.156 min Scan# 9
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion: 41 Resp: 639301

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 52.4 | 42.2 | 63.2 |
| 67 | 83.7 | 67.9 | 101.9 |
| 52 | 32.7 | 26.7 | 40.1 |

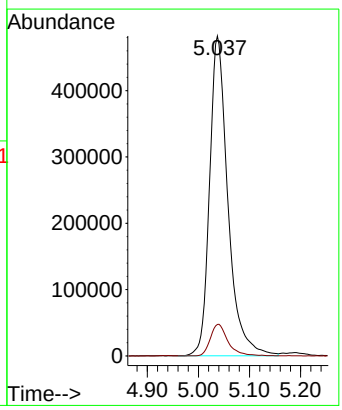


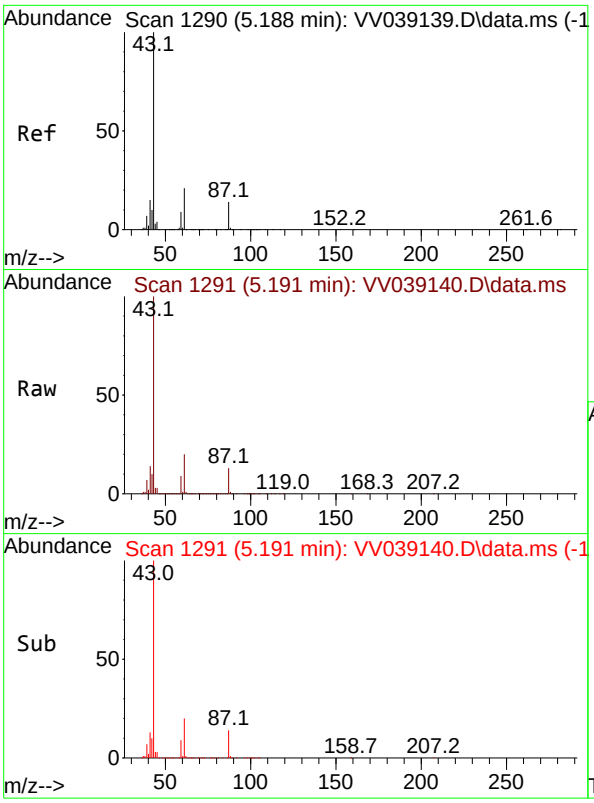




#42
1,2-Dichloroethane
Concen: 92.737 ug/l
RT: 5.037 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 62 Resp: 1202991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.5 | 0.0 | 19.2 |



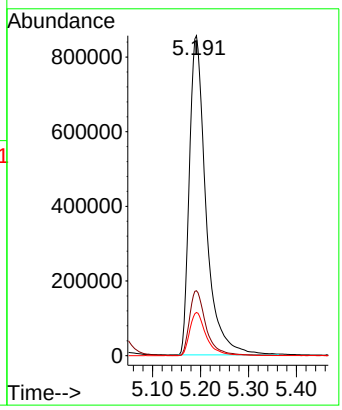


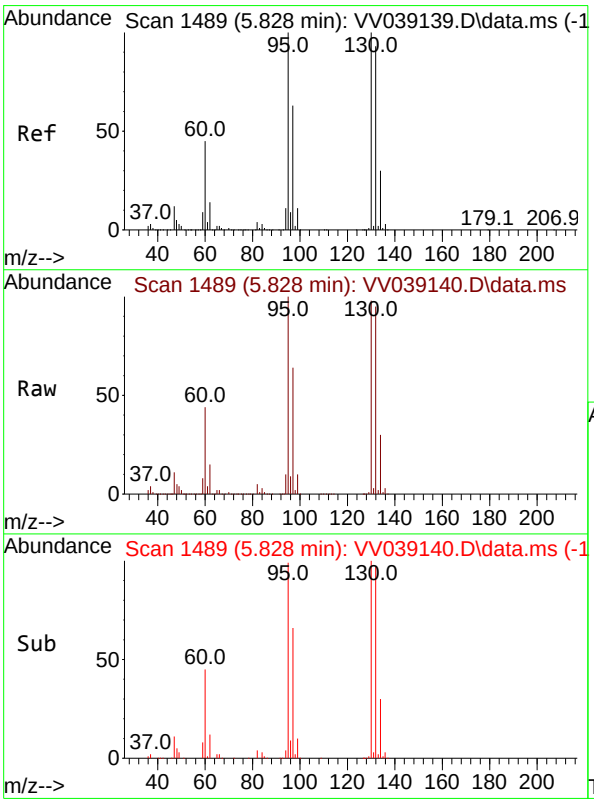

#43
Isopropyl Acetate
Concen: 106.372 ug/l
RT: 5.191 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion: 43 Resp: 2058622

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 20.1 | 15.9 | 23.9 |
| 87 | 13.6 | 11.0 | 16.6 |

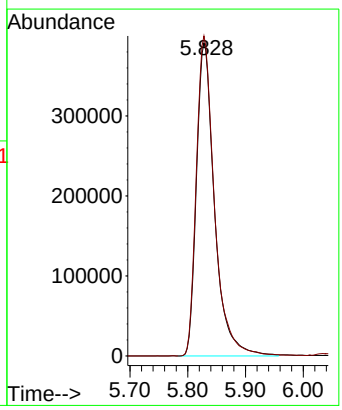


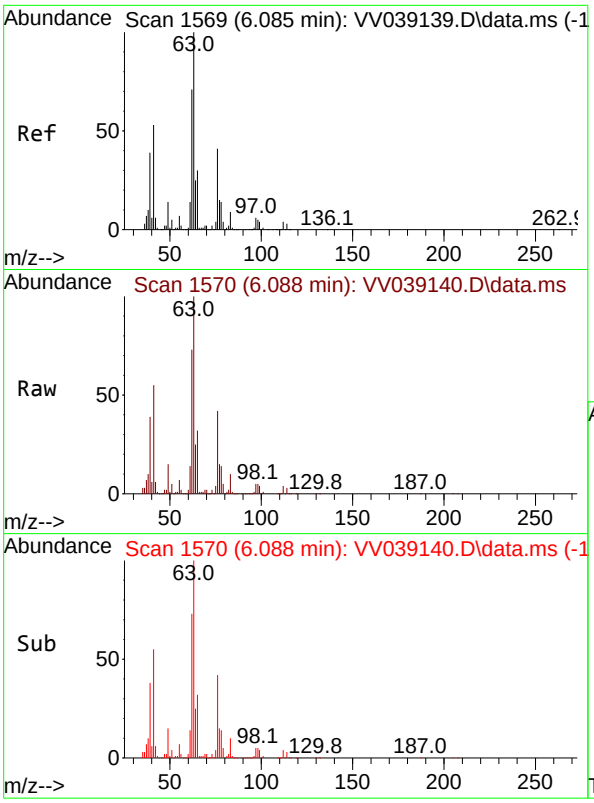




#44
Trichloroethene
Concen: 99.474 ug/l
RT: 5.828 min Scan# 1489
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:130 Resp: 849813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 102.2 | 0.0 | 199.2 |



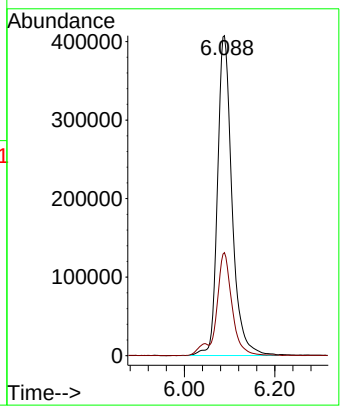


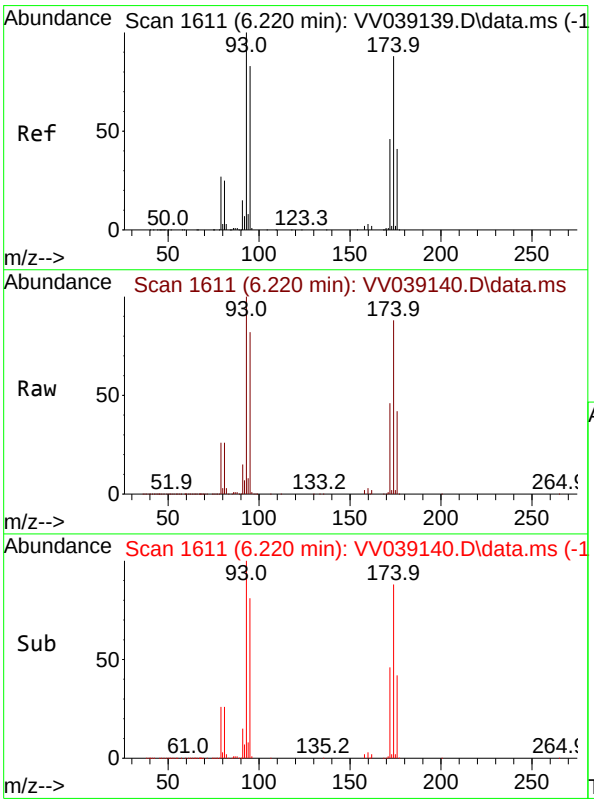

#45
1,2-Dichloropropane
Concen: 98.813 ug/l
RT: 6.088 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion: 63 Resp: 909288

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 32.2 | 23.7 | 35.5 |

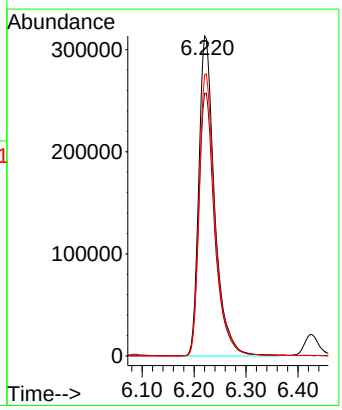


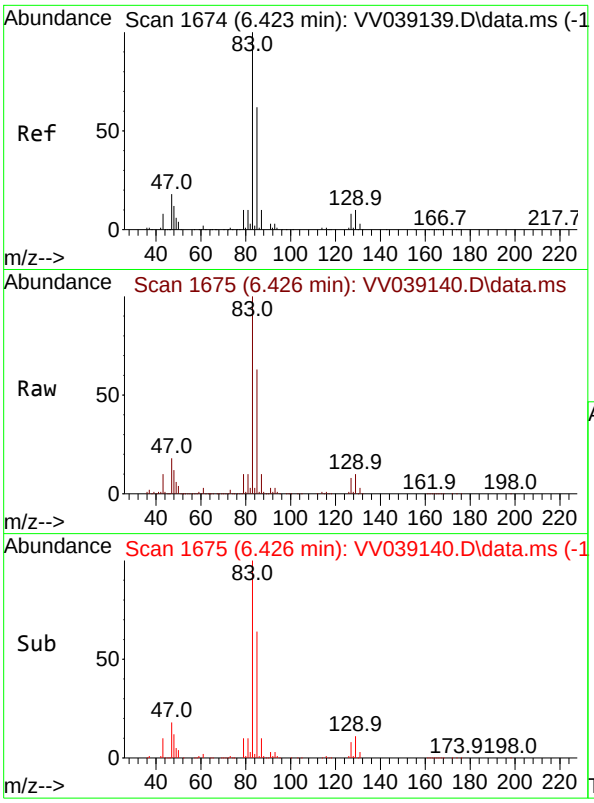




#46
Dibromomethane
Concen: 93.898 ug/l
RT: 6.220 min Scan# 1611
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 93 Resp: 661336

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.8 | 65.5 | 98.3 |
| 174 | 88.3 | 69.0 | 103.4 |



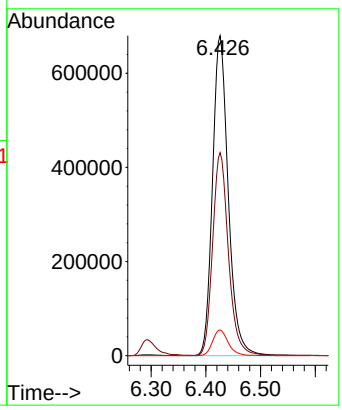


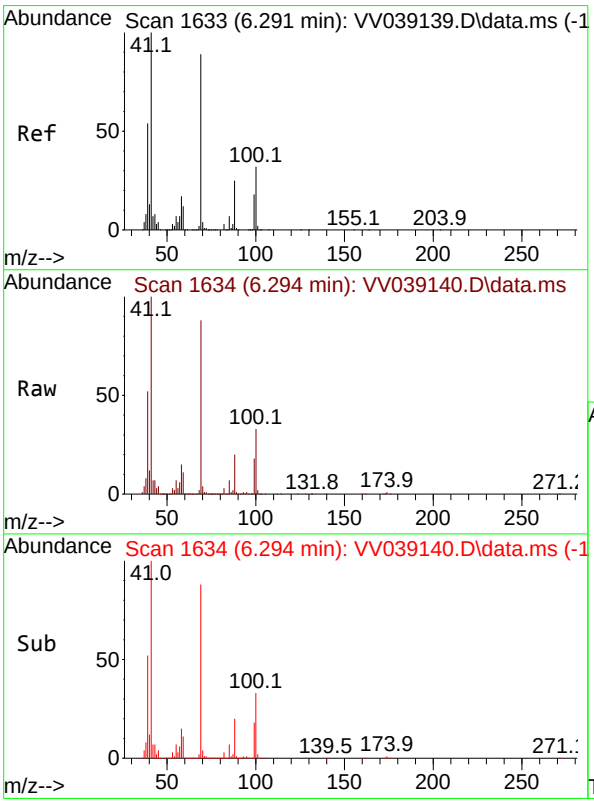

#47
Bromodichloromethane
Concen: 93.118 ug/l
RT: 6.426 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion: 83 Resp: 1355845

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.3 | 49.7 | 74.5 |
| 127 | 8.0 | 6.6 | 9.8 |

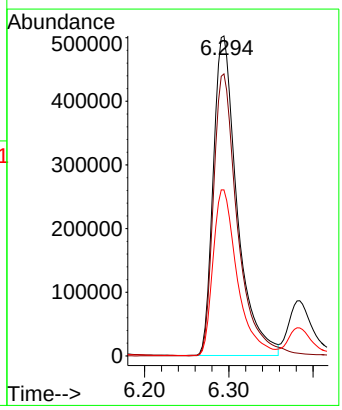


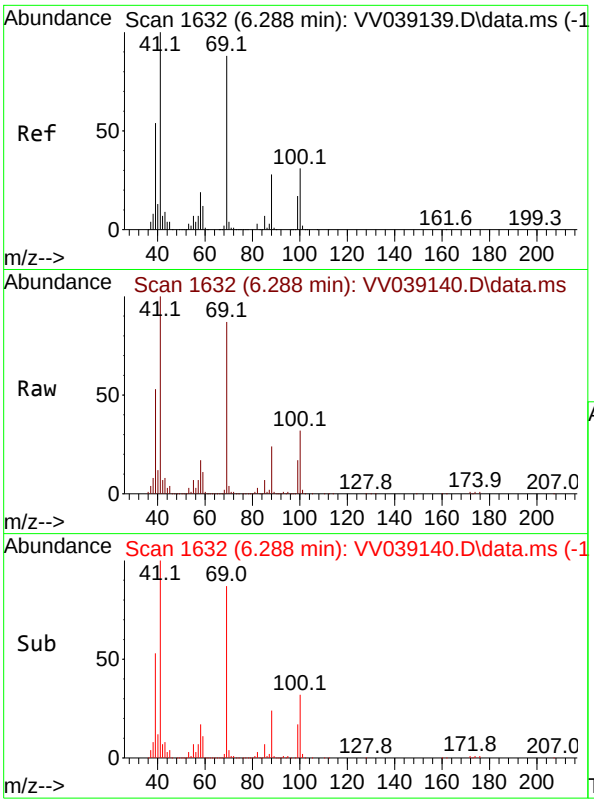




#48
Methyl methacrylate
Concen: 111.182 ug/l
RT: 6.294 min Scan# 1634
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 41 Resp: 984431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 90.0 | 72.4 | 108.6 |
| 39 | 52.7 | 42.5 | 63.7 |



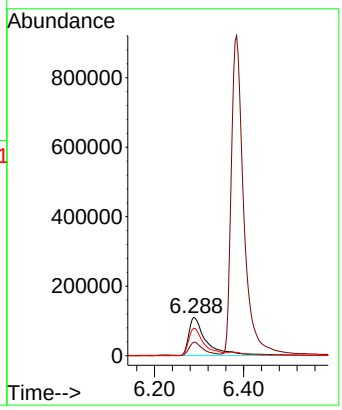


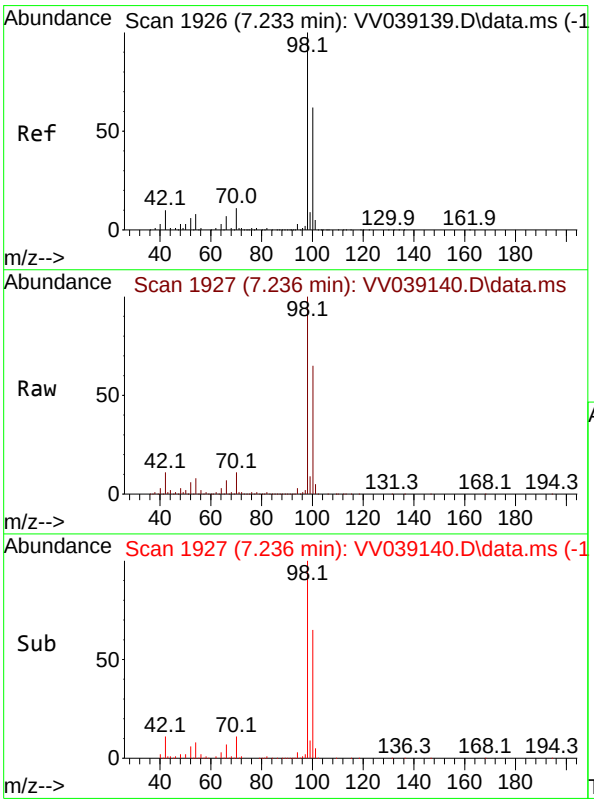

#49
1,4-Dioxane
Concen: 2191.331 ug/l
RT: 6.288 min Scan# 1
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion: 88 Resp: 304943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 29.1 | 25.1 | 37.7 |
| 58 | 62.6 | 53.6 | 80.4 |

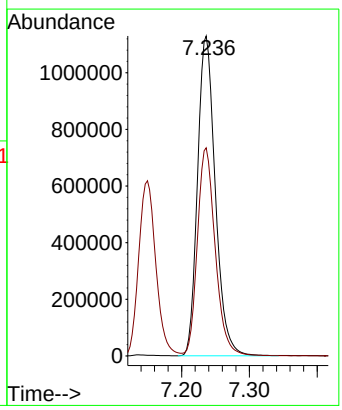


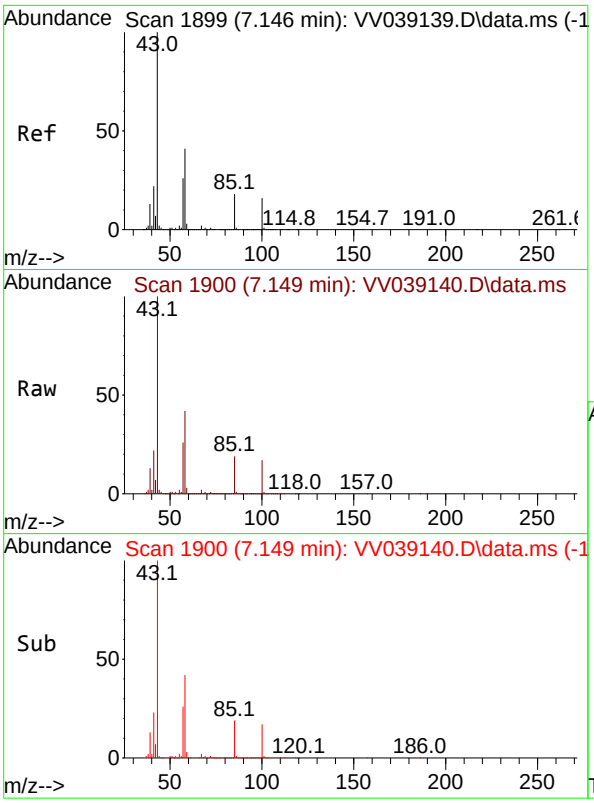




#50
Toluene-d8
Concen: 92.932 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 98 Resp: 2052477

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.3 | 52.2 | 78.2 |



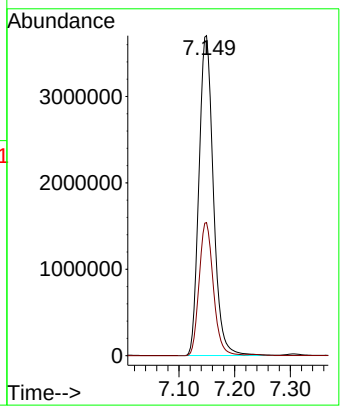


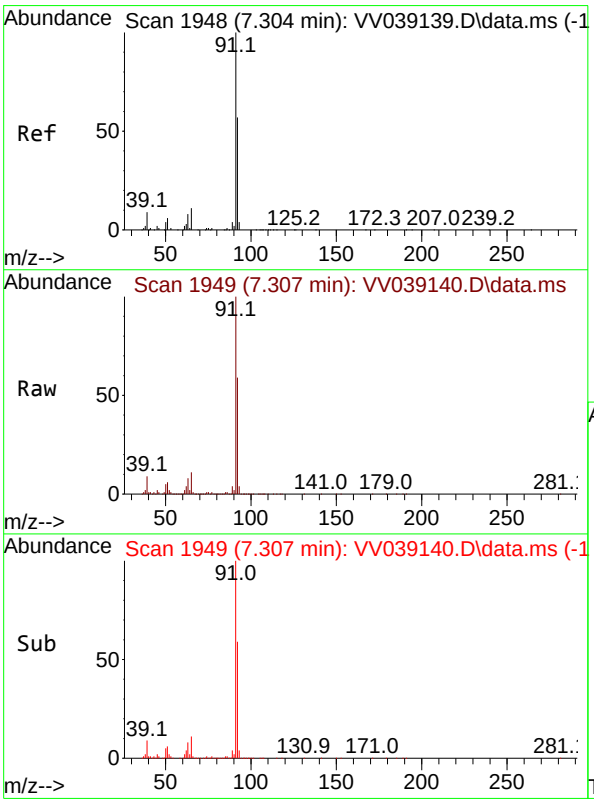

#51
4-Methyl-2-Pentanone
Concen: 539.372 ug/l
RT: 7.149 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion: 43 Resp: 6674594

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 41.1 | 32.3 | 48.5 |

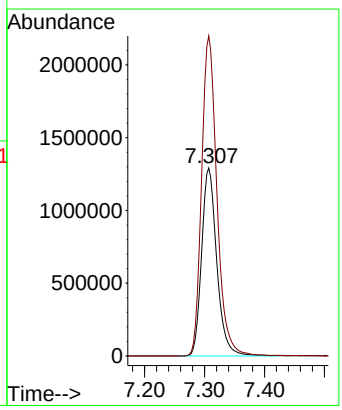


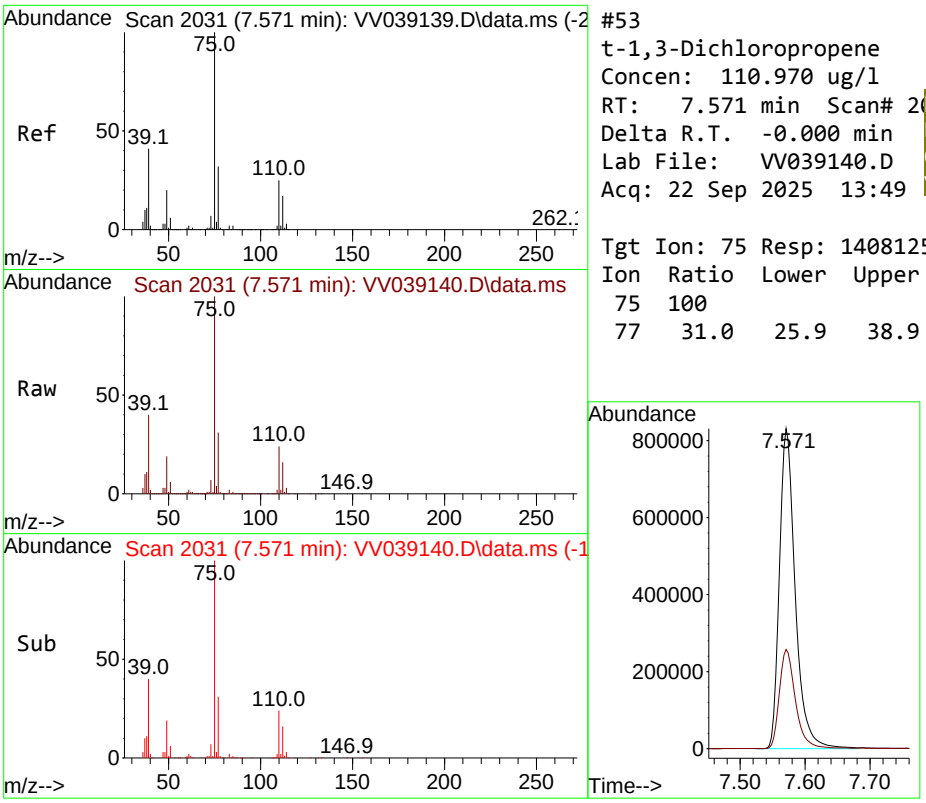




#52
Toluene
Concen: 105.813 ug/l
RT: 7.307 min Scan# 1949
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 92 Resp: 2271340

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 172.4 | 139.2 | 208.8 |





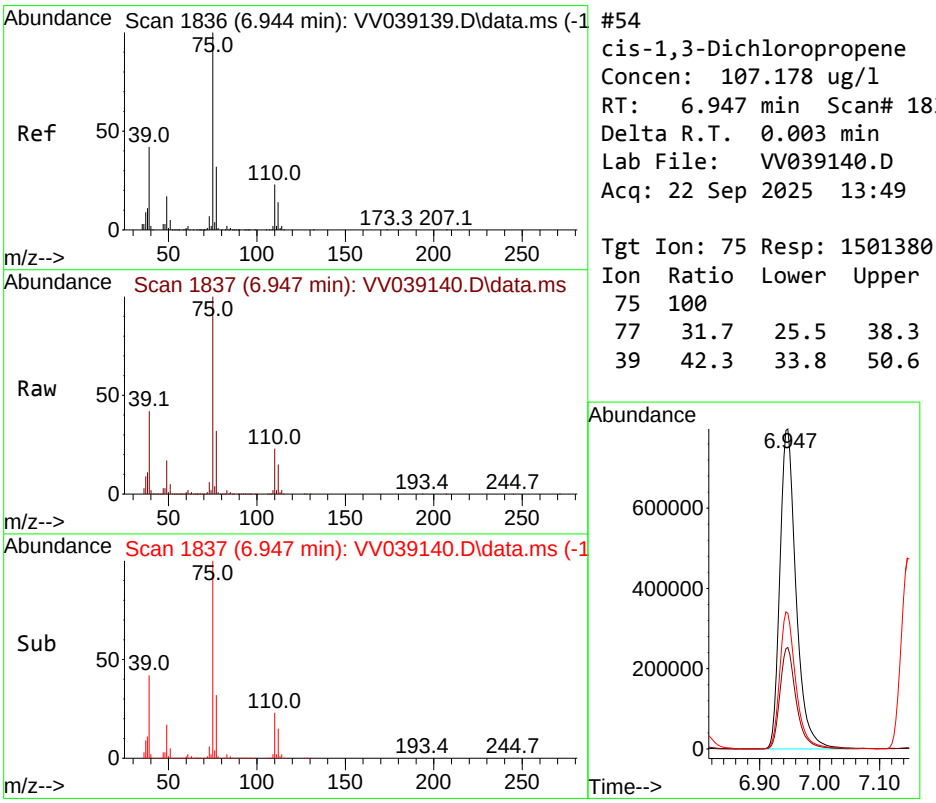

#53
t-1,3-Dichloropropene
Concen: 110.970 ug/l
RT: 7.571 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion: 75 Resp: 1408125

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.0 | 25.9 | 38.9 |

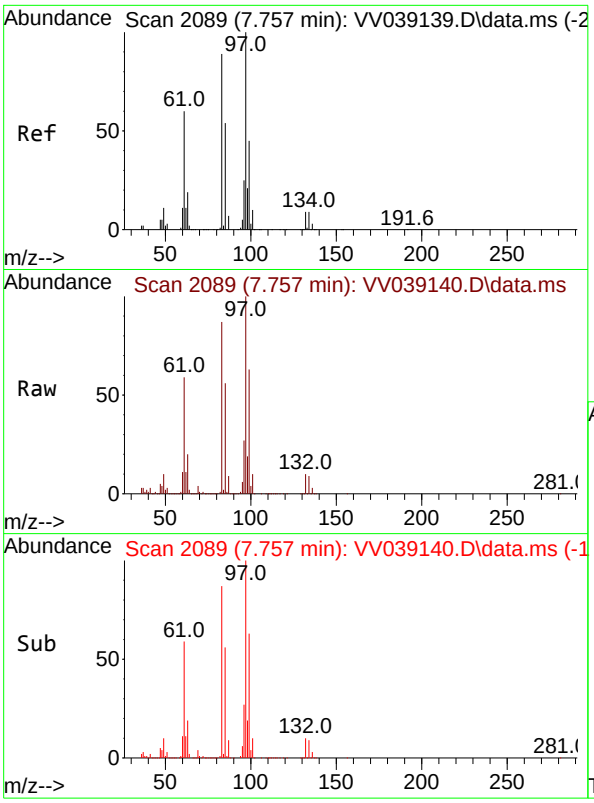



#54
cis-1,3-Dichloropropene
Concen: 107.178 ug/l
RT: 6.947 min Scan# 1837
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 75 Resp: 1501380

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.7 | 25.5 | 38.3 |
| 39 | 42.3 | 33.8 | 50.6 |

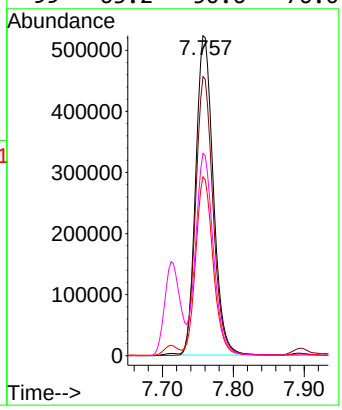


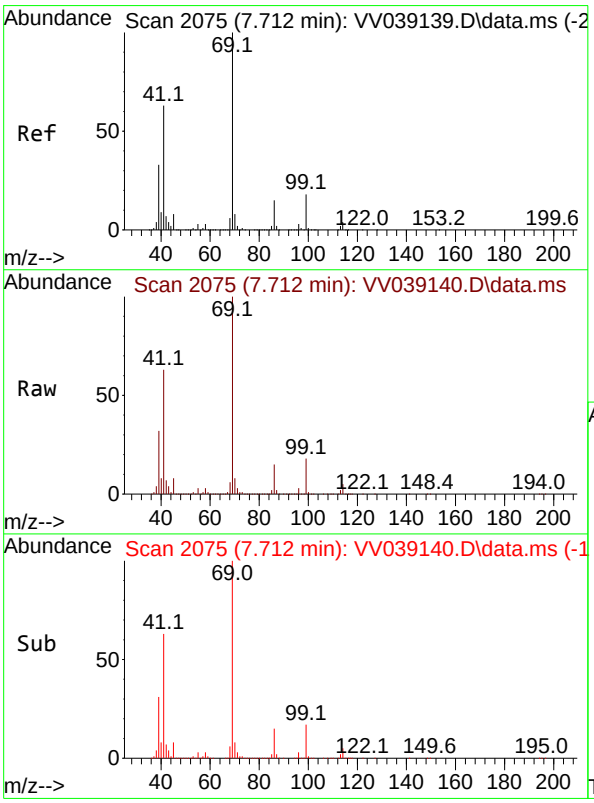

#55
1,1,2-Trichloroethane
Concen: 93.280 ug/l
RT: 7.757 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion: 97 Resp: 897804

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 87.2 | 71.1 | 106.7 |
| 85 | 55.8 | 44.6 | 67.0 |
| 99 | 63.2 | 50.6 | 76.0 |

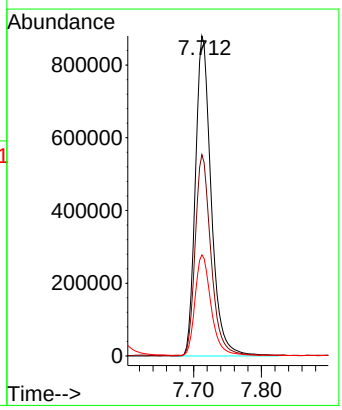


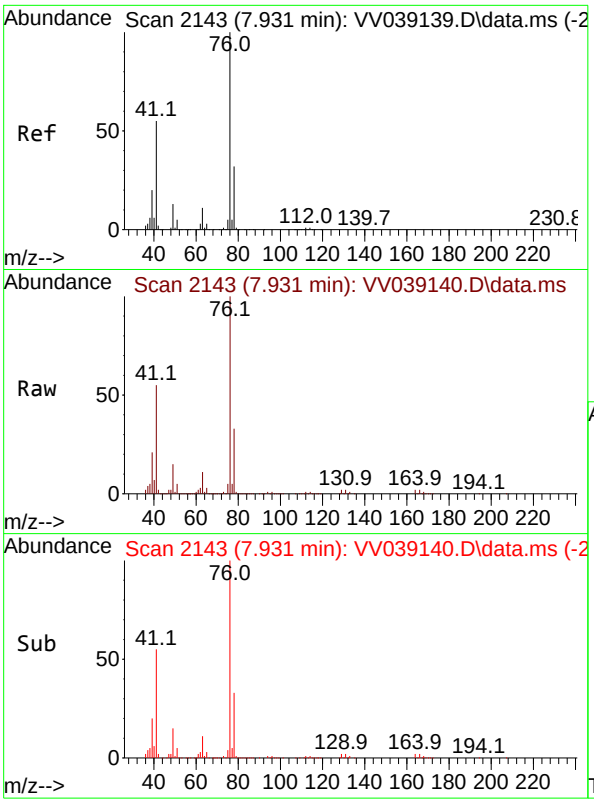




#56
Ethyl methacrylate
Concen: 124.621 ug/l
RT: 7.712 min Scan# 2075
Delta R.T. 0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 69 Resp: 1424432

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 62.8 | 50.7 | 76.1 |
| 39 | 31.6 | 26.0 | 39.0 |



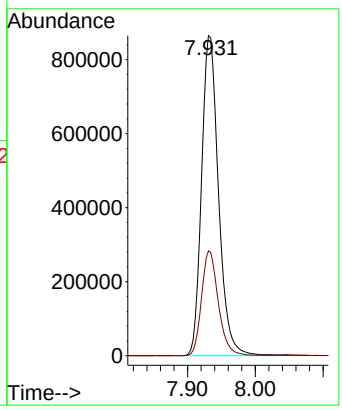


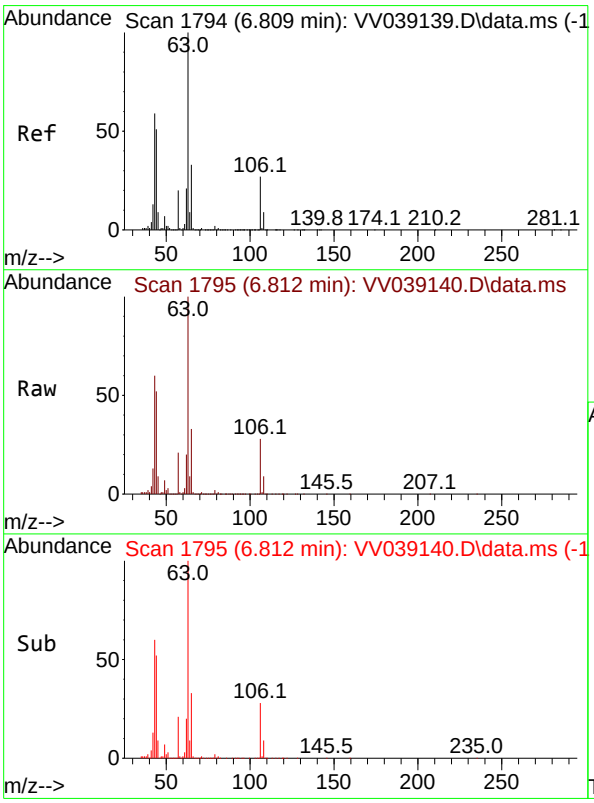

#57
1,3-Dichloropropane
Concen: 98.832 ug/l
RT: 7.931 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion: 76 Resp: 1501225

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.4 | 26.1 | 39.1 |

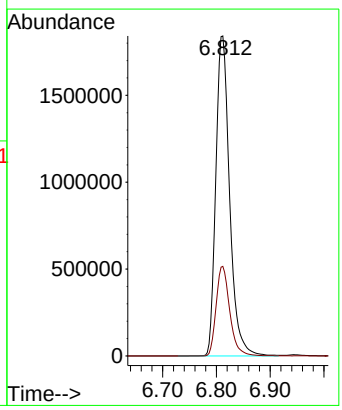


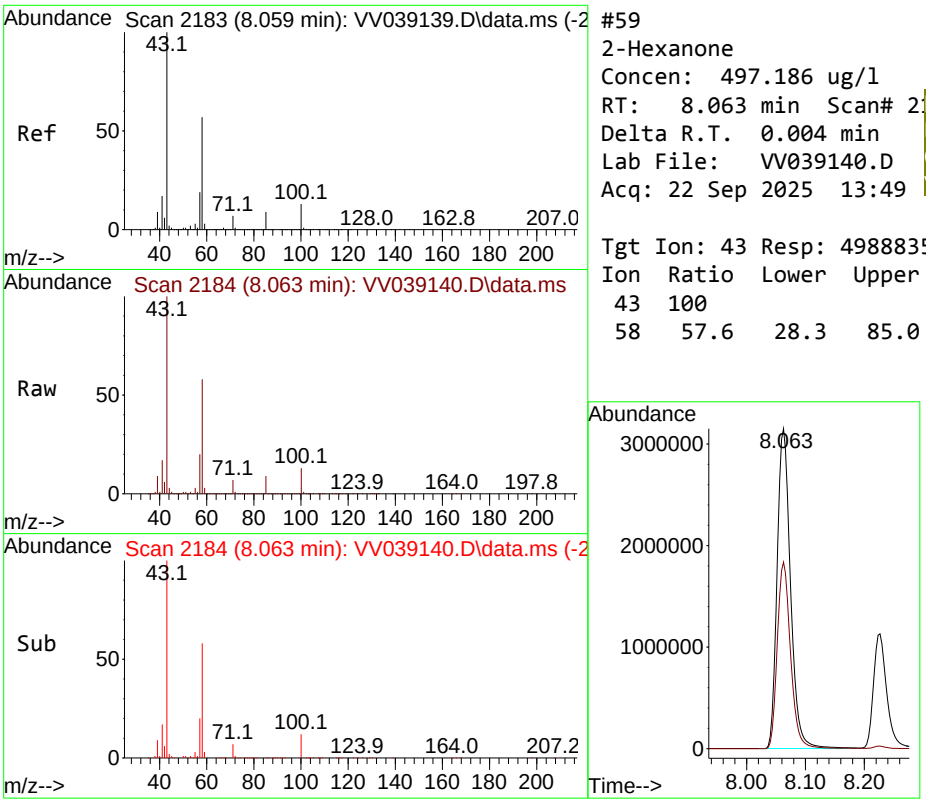




#58
2-Chloroethyl Vinyl ether
Concen: 498.705 ug/l
RT: 6.812 min Scan# 1795
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 63 Resp: 3282267

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 27.7 | 22.1 | 33.1 |





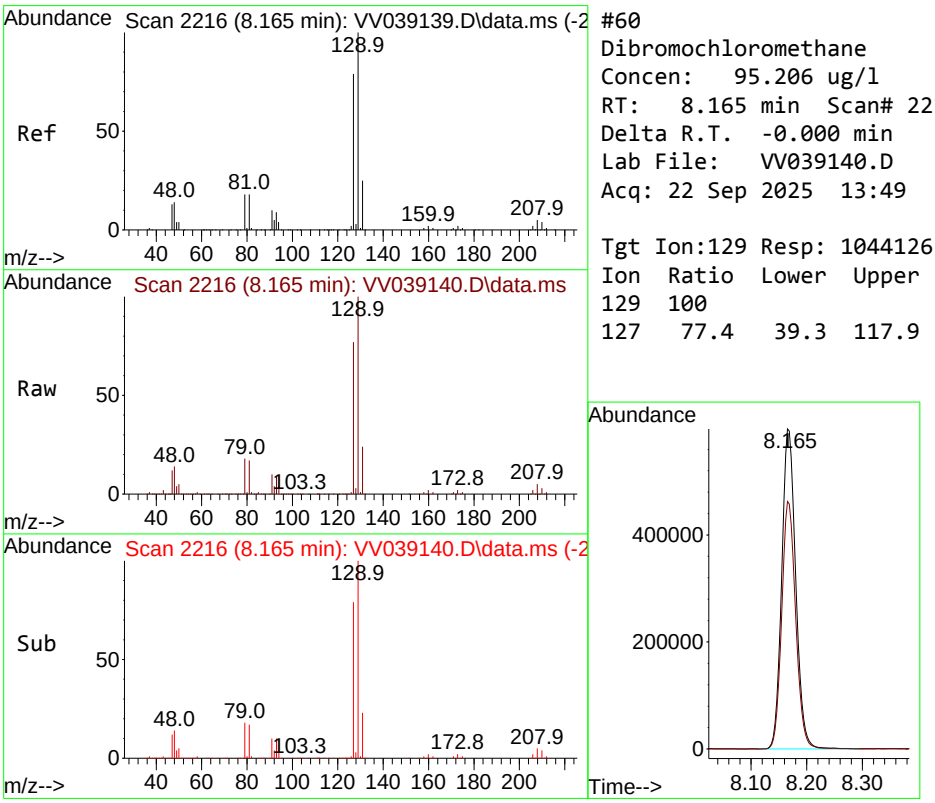

#59
2-Hexanone
Concen: 497.186 ug/l
RT: 8.063 min Scan# 21
Delta R.T. 0.004 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion: 43 Resp: 4988835

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 57.6 | 28.3 | 85.0 |

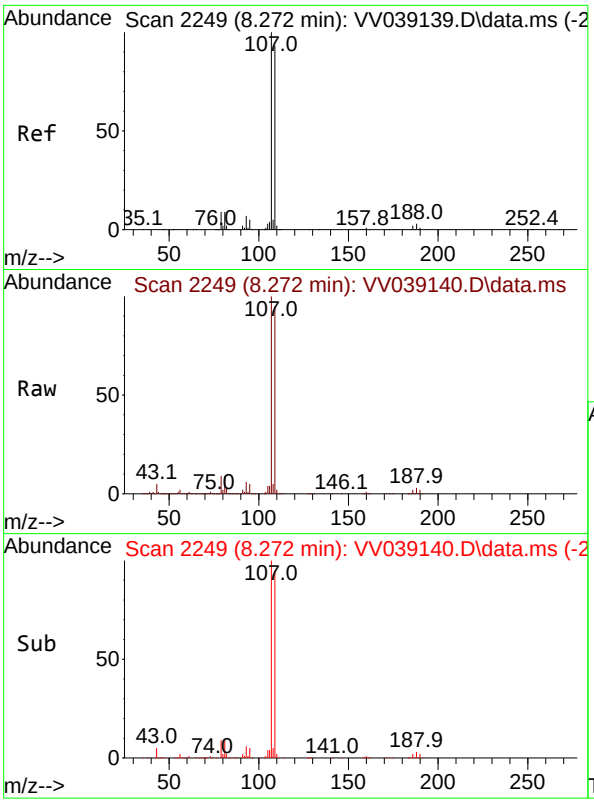



#60
Dibromochloromethane
Concen: 95.206 ug/l
RT: 8.165 min Scan# 2216
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:129 Resp: 1044126

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.4 | 39.3 | 117.9 |

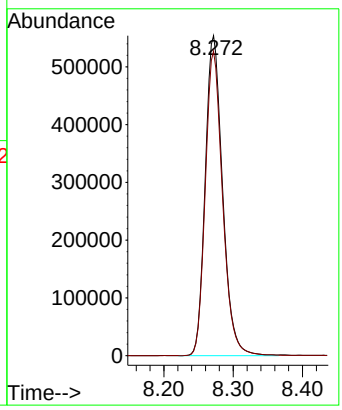


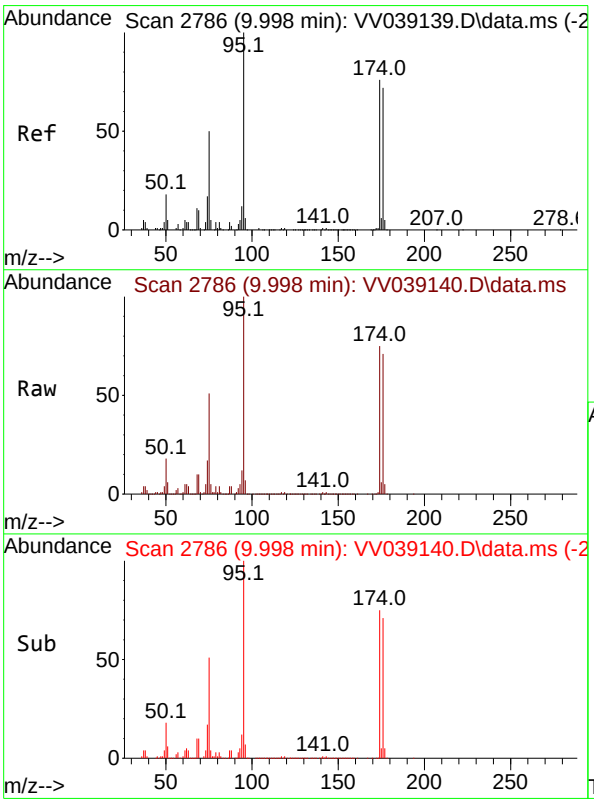

#61
1,2-Dibromoethane
Concen: 97.622 ug/l
RT: 8.272 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion:107 Resp: 960914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.8 | 74.6 | 112.0 |

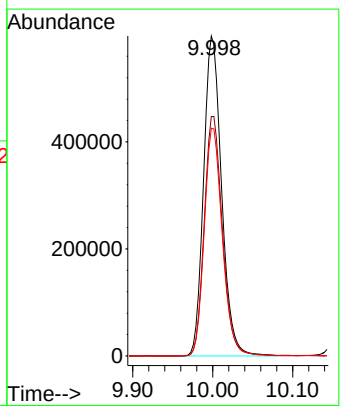


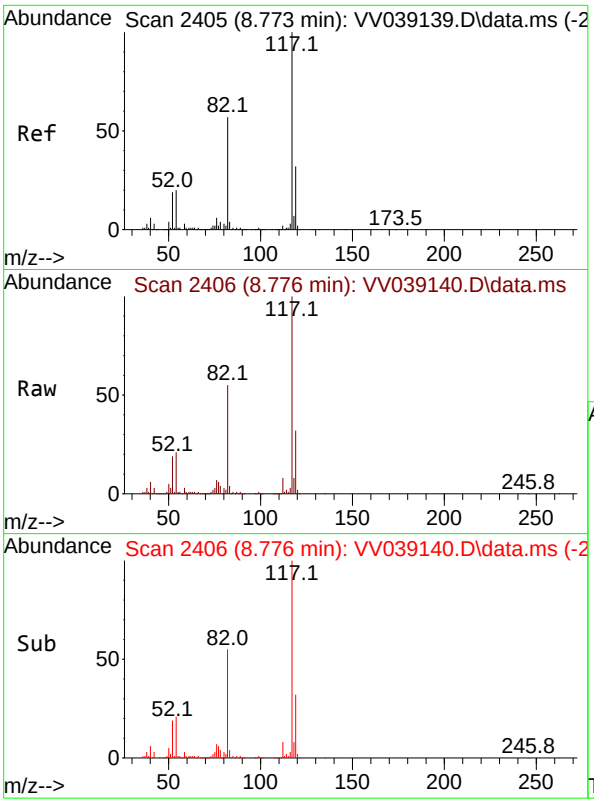




#62
4-Bromofluorobenzene
Concen: 103.112 ug/l
RT: 9.998 min Scan# 2786
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 95 Resp: 937505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 75.8 | 0.0 | 150.4 |
| 176 | 71.8 | 0.0 | 144.2 |



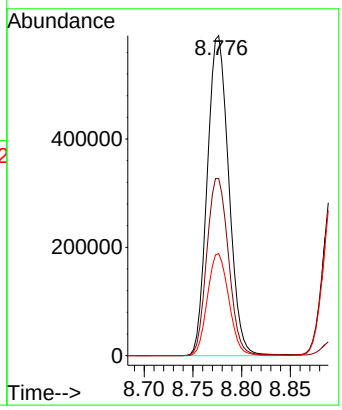


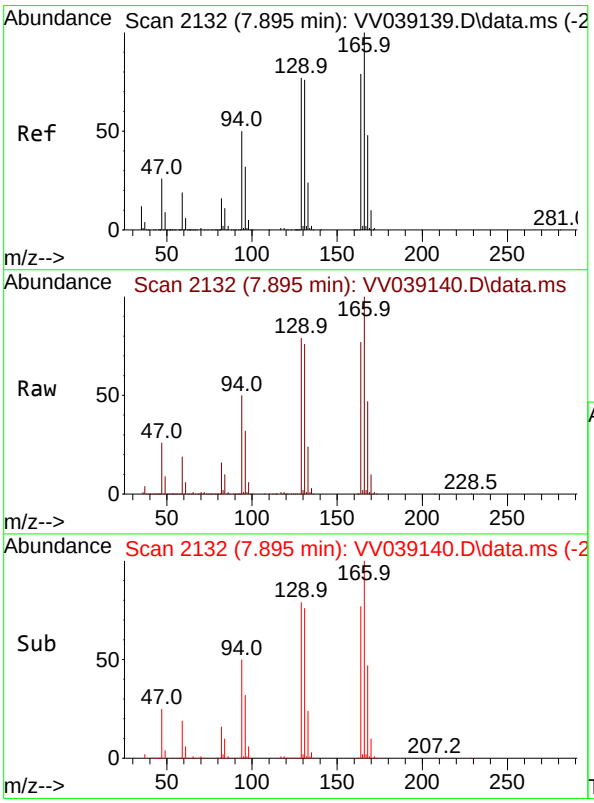

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion:117 Resp: 904902

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 55.3 | 45.4 | 68.2 |
| 119 | 31.9 | 25.6 | 38.4 |

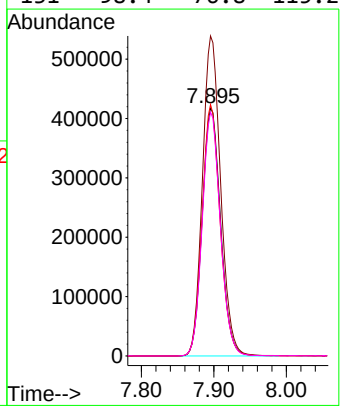


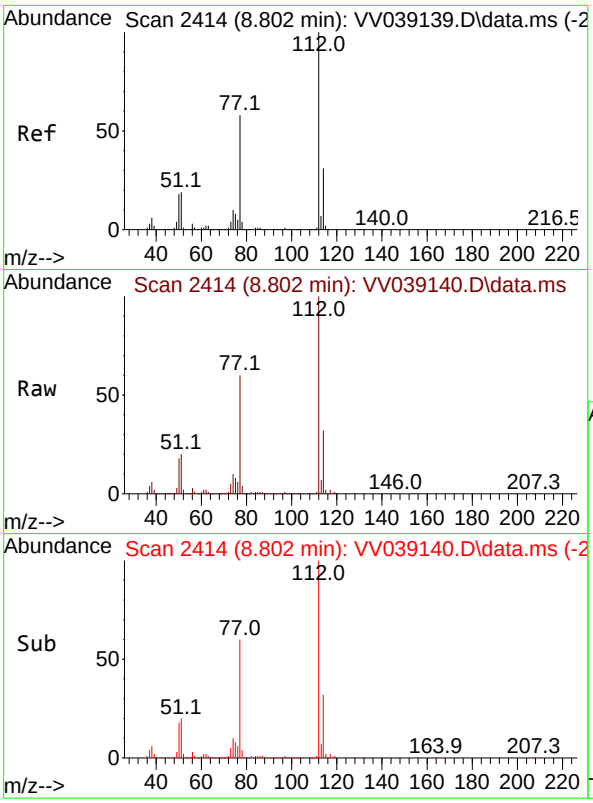




#64
Tetrachloroethene
Concen: 97.167 ug/l
RT: 7.895 min Scan# 2132
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:164 Resp: 736462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 129.1 | 101.6 | 152.4 |
| 129 | 101.5 | 78.5 | 117.7 |
| 131 | 98.4 | 76.8 | 115.2 |



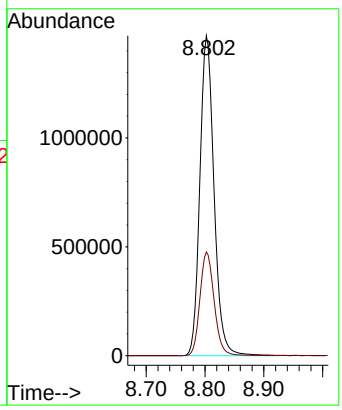


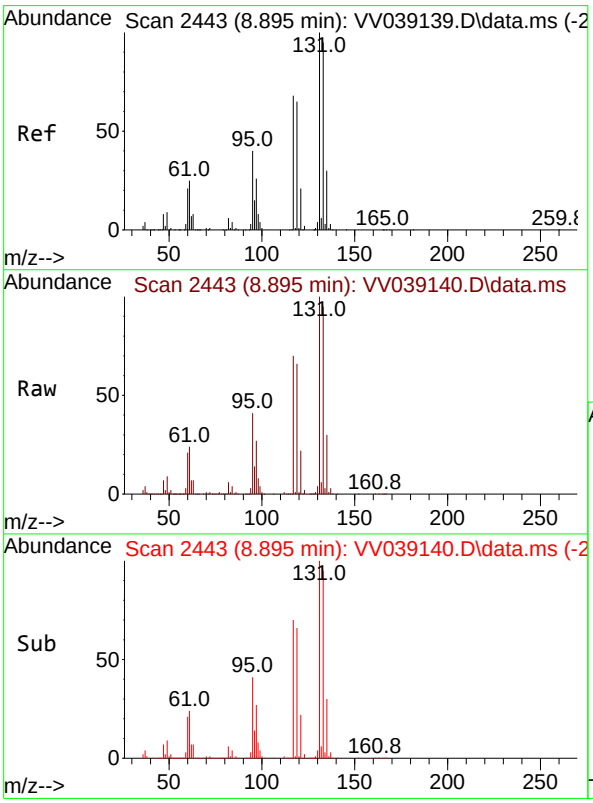

#65
Chlorobenzene
Concen: 97.480 ug/l
RT: 8.802 min Scan# 24
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion:112 Resp: 2457021

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.4 | 24.6 | 37.0 |

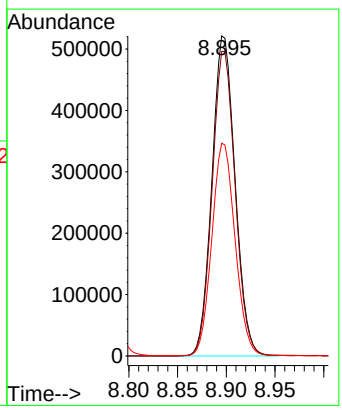


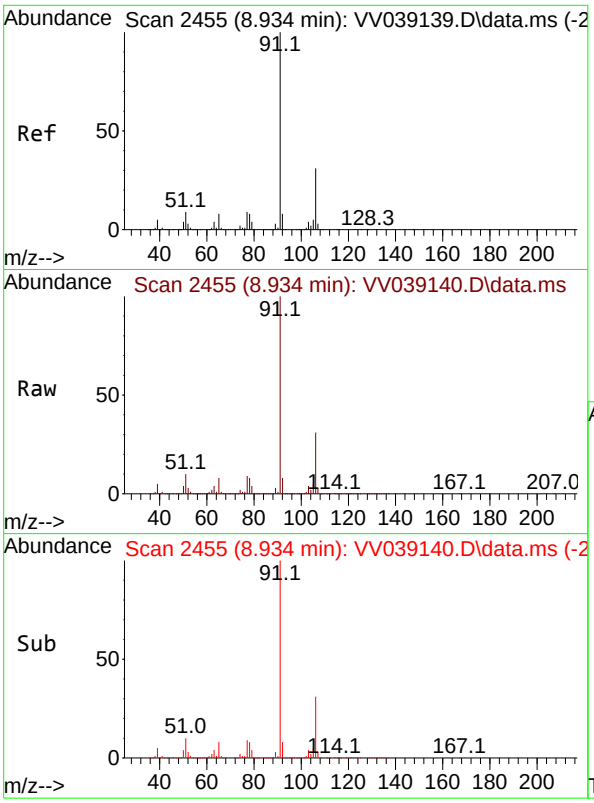




#66
1,1,1,2-Tetrachloroethane
Concen: 94.816 ug/l
RT: 8.895 min Scan# 2443
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:131 Resp: 863523

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.8 | 47.3 | 141.8 |
| 119 | 66.6 | 33.3 | 99.8 |



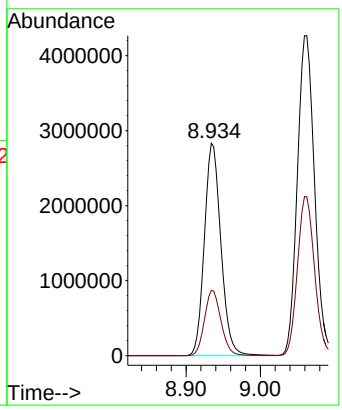


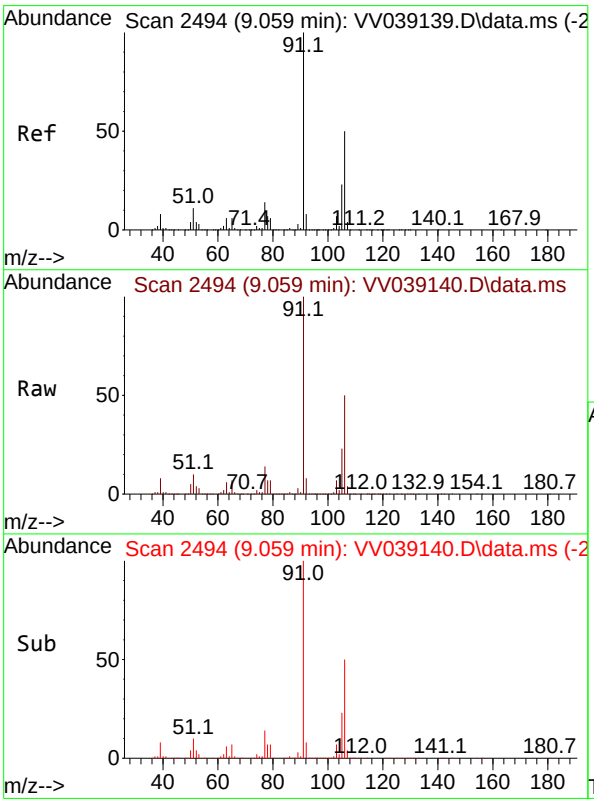

#67
Ethyl Benzene
Concen: 114.700 ug/l
RT: 8.934 min Scan# 24
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion: 91 Resp: 4376266

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.8 | 24.6 | 37.0 |

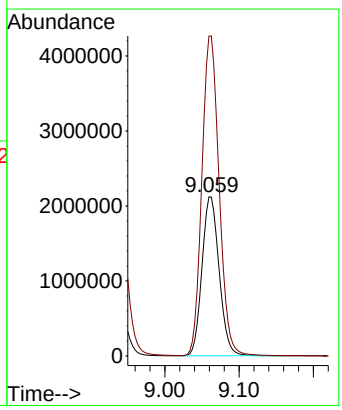


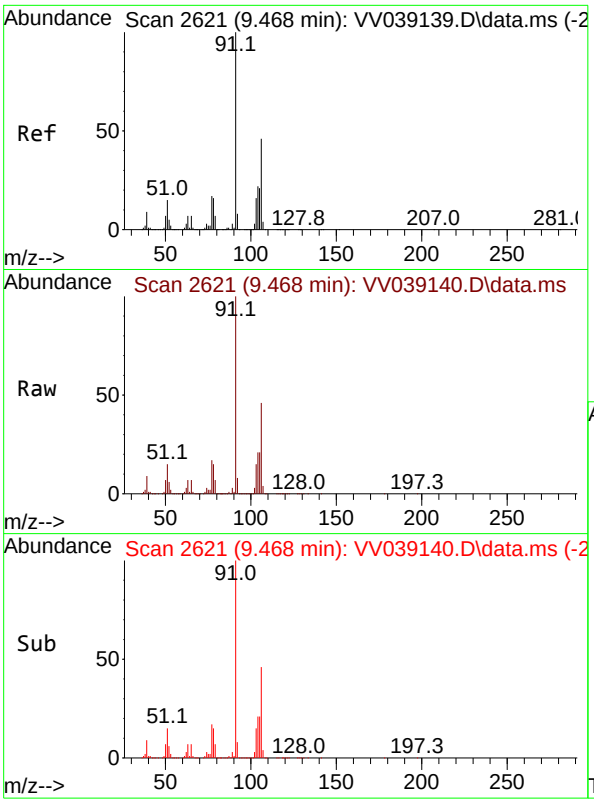




#68
m/p-Xylenes
Concen: 230.657 ug/l
RT: 9.059 min Scan# 2494
Delta R.T. 0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:106 Resp: 3396653

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 202.4 | 162.5 | 243.7 |



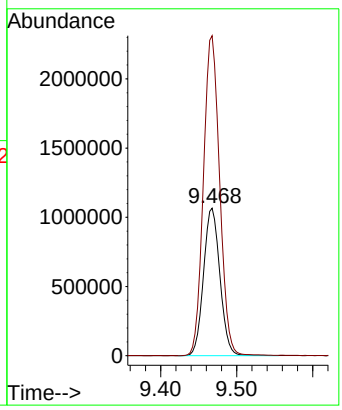


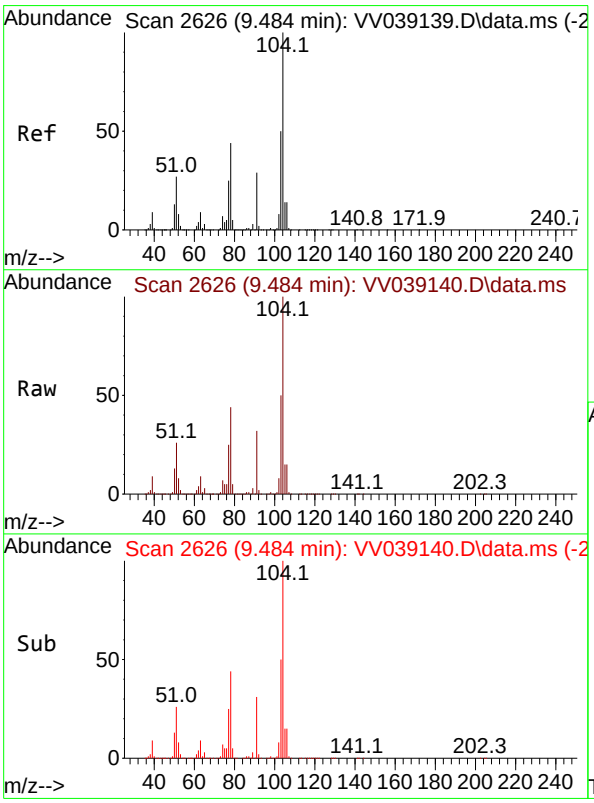

#69
o-Xylene
Concen: 122.170 ug/l
RT: 9.468 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion:106 Resp: 1592963

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 215.6 | 109.1 | 327.3 |

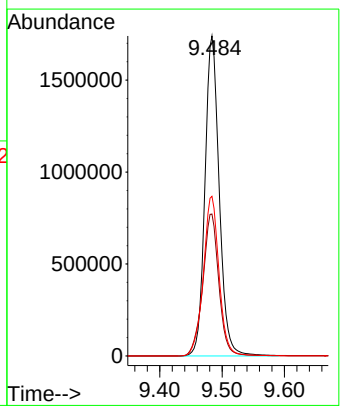


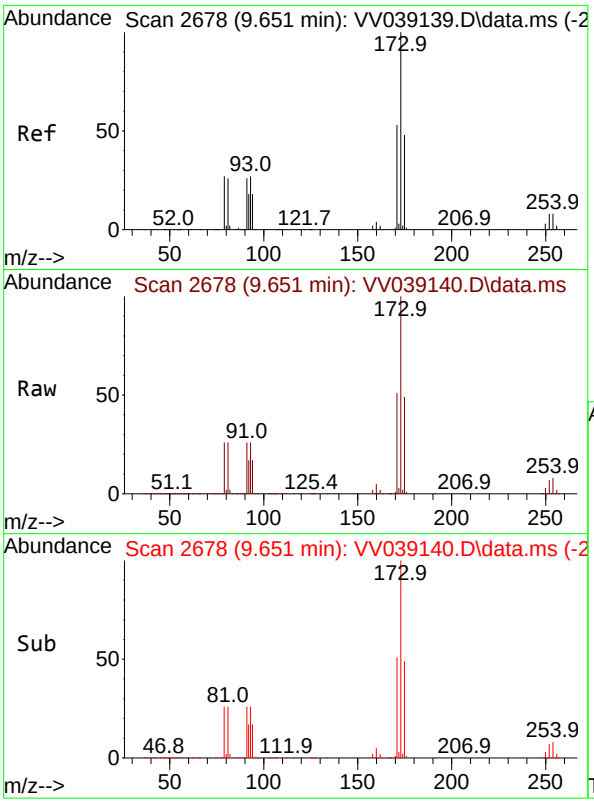




#70
Styrene
Concen: 99.832 ug/l
RT: 9.484 min Scan# 2626
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:104 Resp: 2781887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 49.7 | 39.8 | 59.6 |
| 103 | 54.8 | 43.4 | 65.2 |



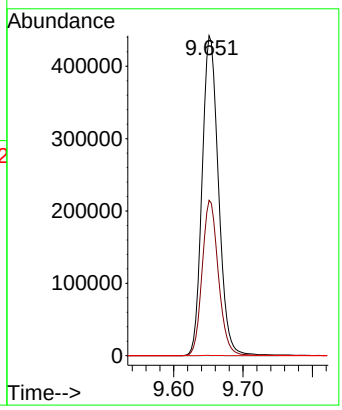


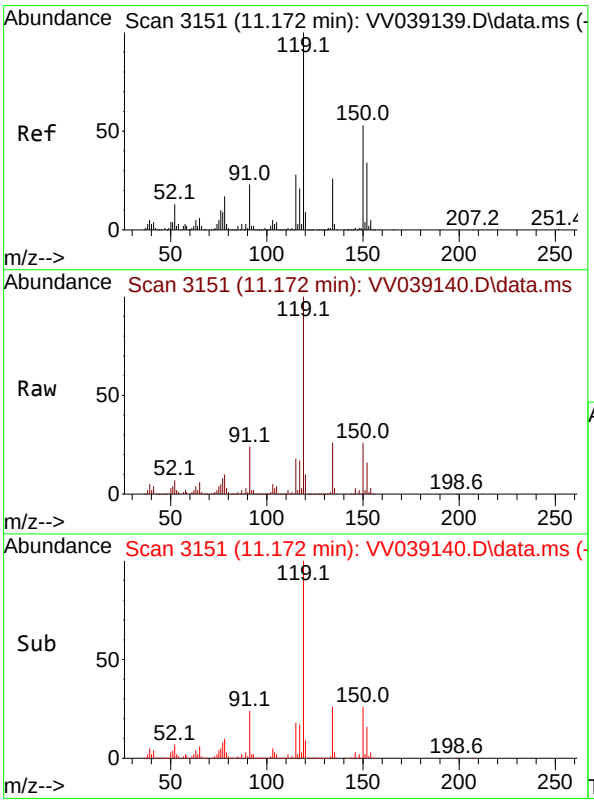

#71
Bromoform
Concen: 101.838 ug/l
RT: 9.651 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion:173 Resp: 724467

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.2 | 23.9 | 71.7 |
| 254 | 0.1 | 0.1 | 0.1 |

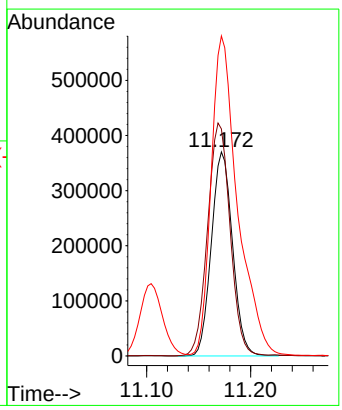


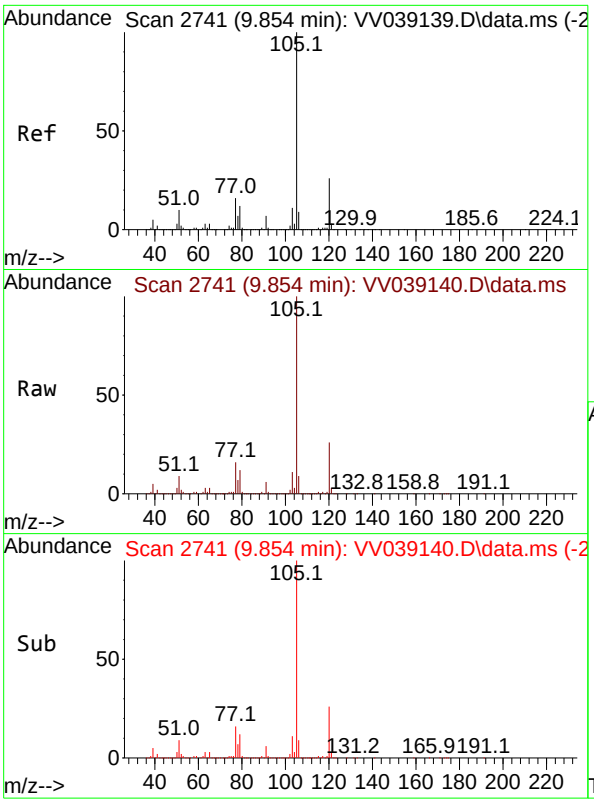




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:152 Resp: 523452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 121.0 | 44.8 | 134.4 |
| 150 | 195.4 | 0.0 | 353.8 |



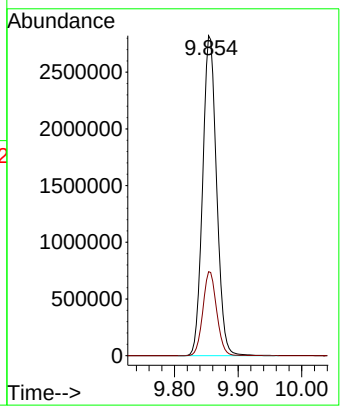


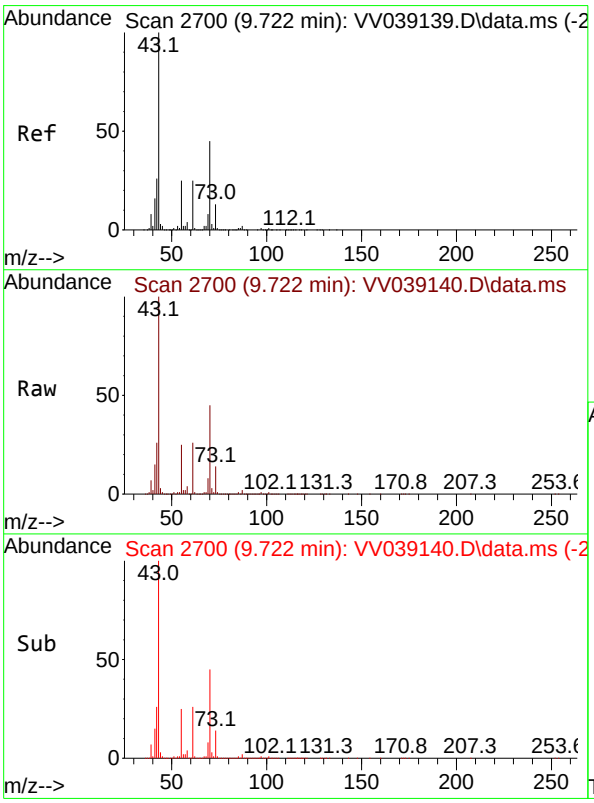

#73
Isopropylbenzene
Concen: 112.946 ug/l
RT: 9.854 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion:105 Resp: 4288139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.0 | 13.1 | 39.1 |

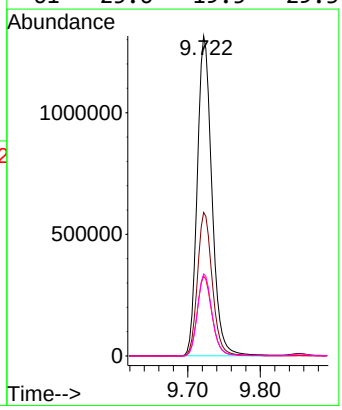


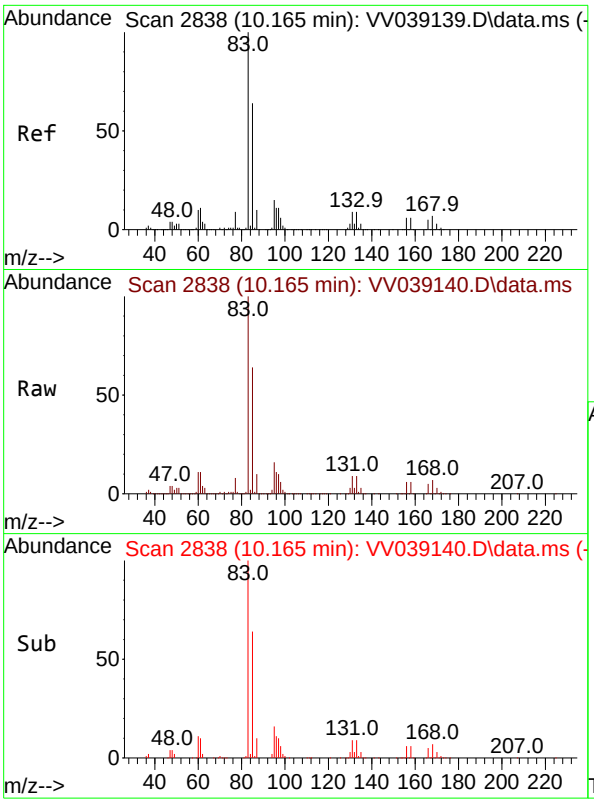




#74
N-amyl acetate
Concen: 121.948 ug/l
RT: 9.722 min Scan# 2700
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 43 Resp: 1846779

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 45.4 | 35.4 | 53.0 |
| 55 | 25.4 | 20.6 | 30.8 |
| 61 | 25.6 | 19.5 | 29.3 |



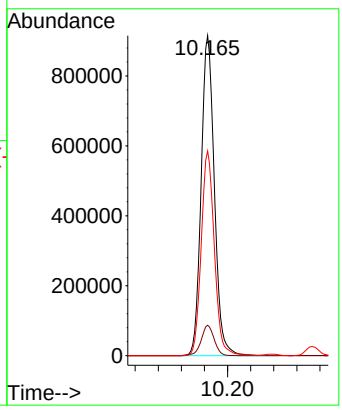


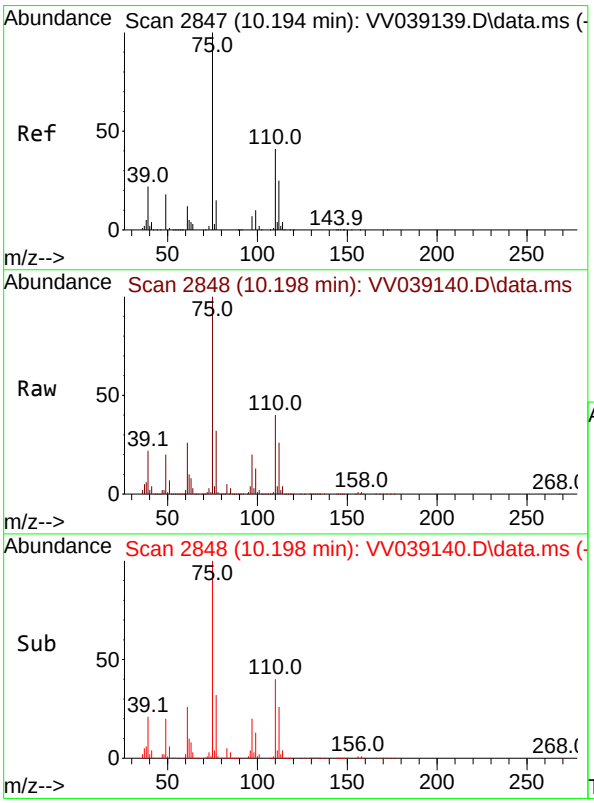

#75
1,1,2,2-Tetrachloroethane
Concen: 87.406 ug/l
RT: 10.165 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion: 83 Resp: 1453989

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.4 | 4.5 | 13.7 |
| 85 | 63.6 | 31.9 | 95.9 |

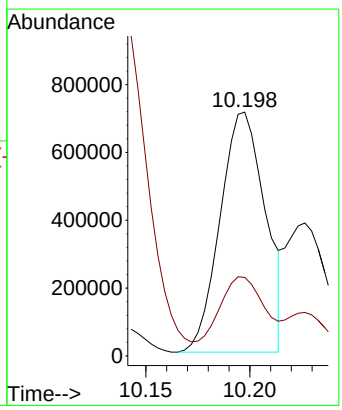


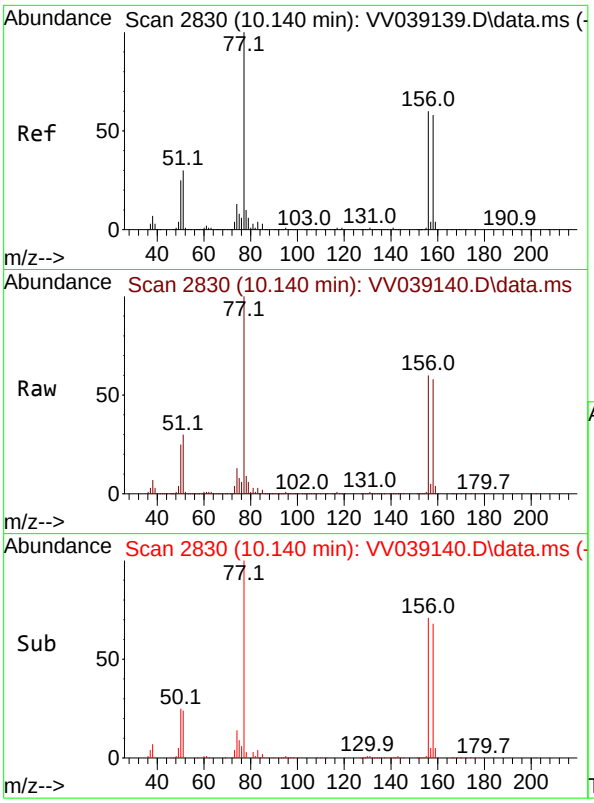




#76
1,2,3-Trichloropropane
Concen: 89.827 ug/l
RT: 10.198 min Scan# 2848
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 75 Resp: 1070580

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 25.0 | 11.3 | 33.8 |



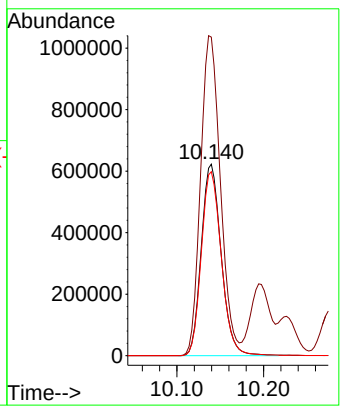


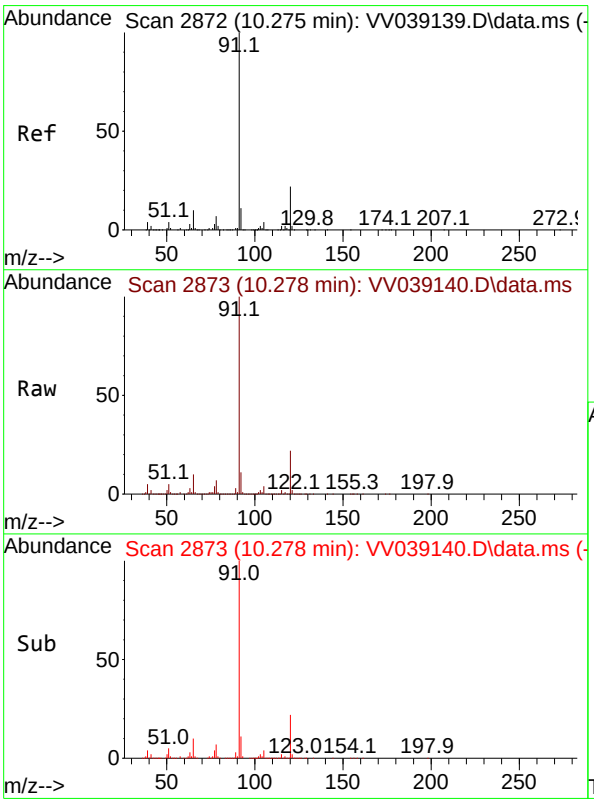

#77
Bromobenzene
Concen: 100.897 ug/l
RT: 10.140 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion:156 Resp: 993863

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 166.1 | 83.4 | 250.1 |
| 158 | 96.7 | 48.8 | 146.4 |

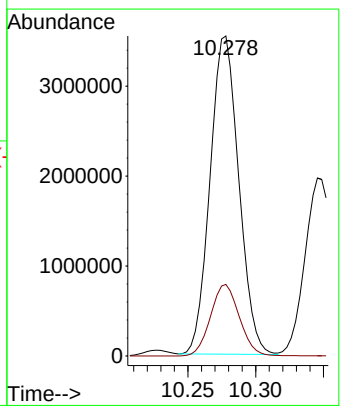


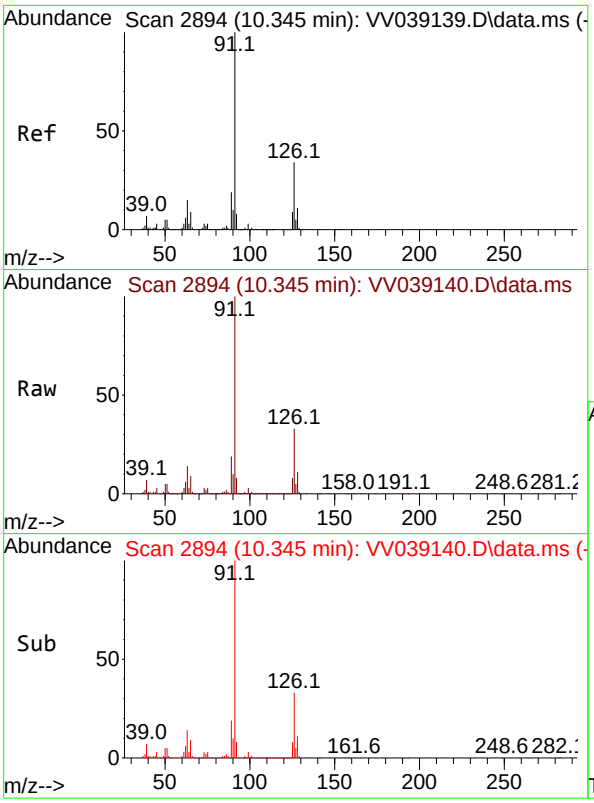




#78
n-propylbenzene
Concen: 112.910 ug/l
RT: 10.278 min Scan# 2873
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 91 Resp: 5220220

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.6 | 11.1 | 33.3 |



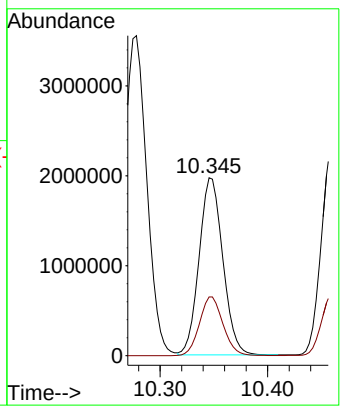


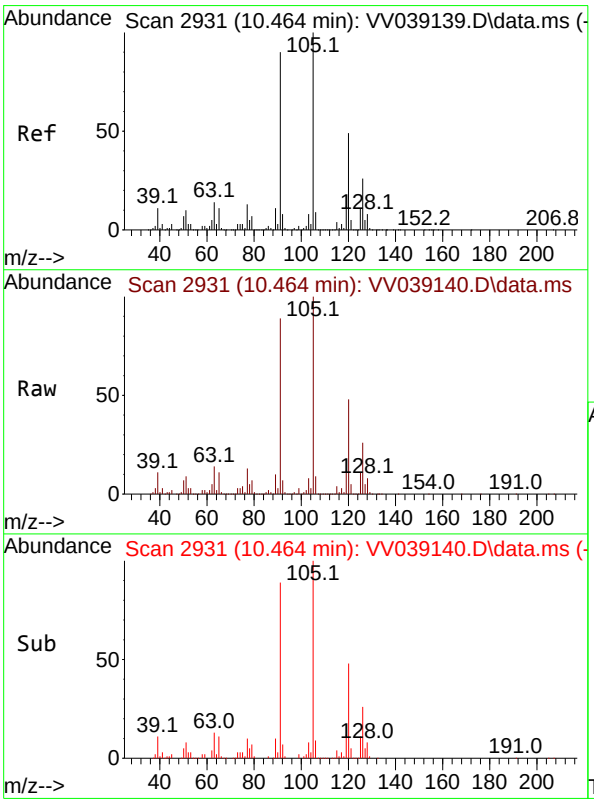

#79
2-Chlorotoluene
Concen: 109.093 ug/l
RT: 10.345 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion: 91 Resp: 3018051

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.0 | 16.7 | 50.0 |

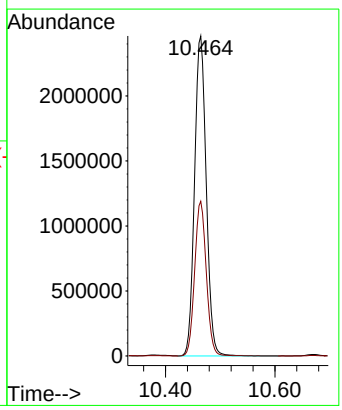


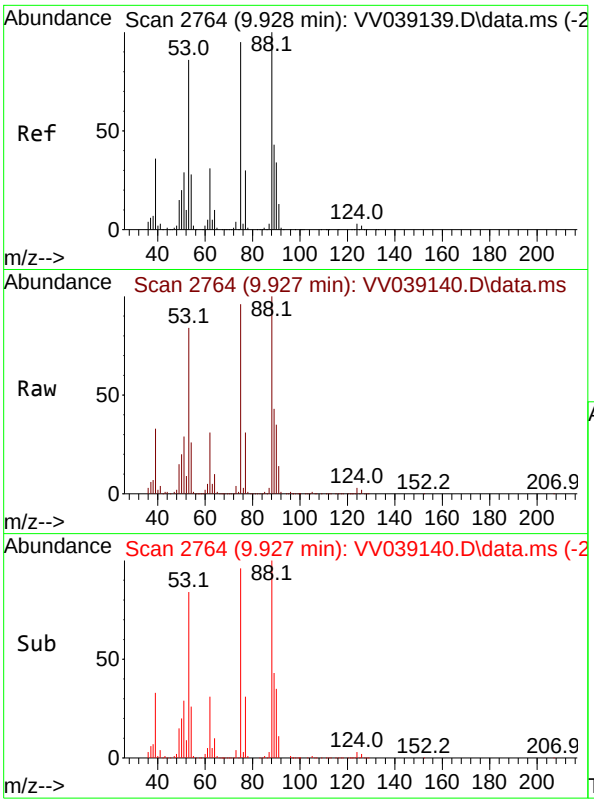




#80
1,3,5-Trimethylbenzene
Concen: 115.284 ug/l
RT: 10.464 min Scan# 2931
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:105 Resp: 3638030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.2 | 24.3 | 72.8 |



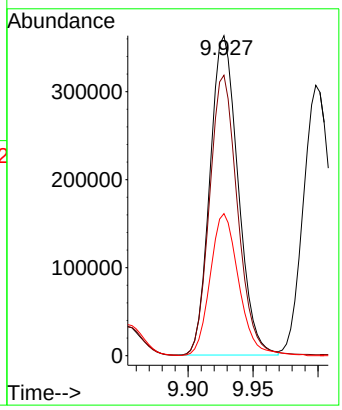


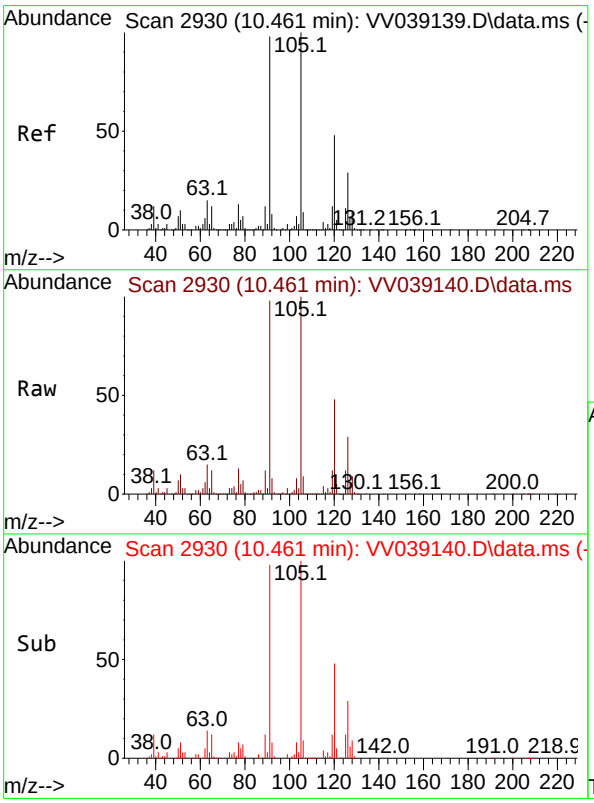

#81
trans-1,4-Dichloro-2-butene
Concen: 109.871 ug/l
RT: 9.927 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion: 75 Resp: 545452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 87.6 | 72.5 | 108.7 |
| 89 | 45.5 | 37.2 | 55.8 |

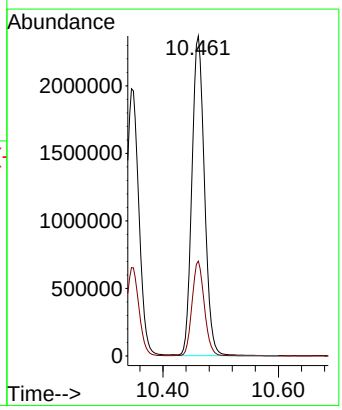


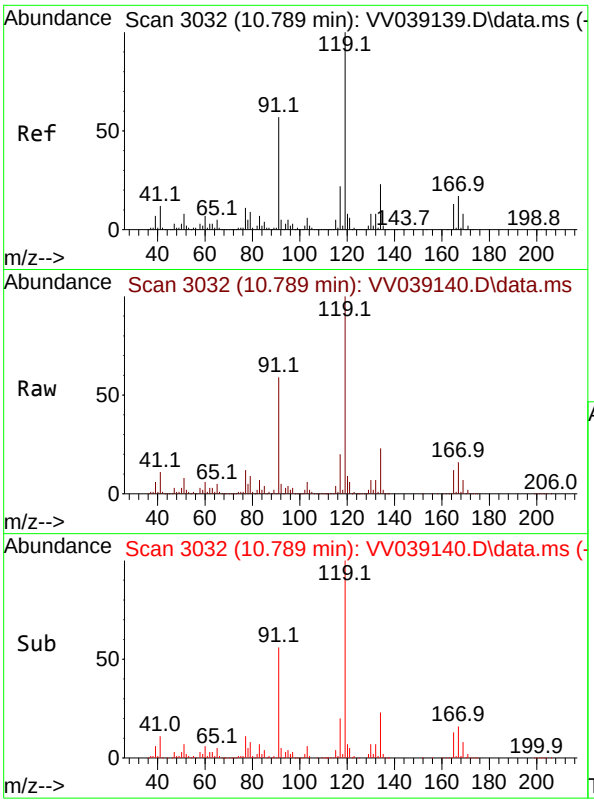




#82
4-Chlorotoluene
Concen: 111.396 ug/l
RT: 10.461 min Scan# 2930
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 91 Resp: 3573507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 29.1 | 14.5 | 43.6 |



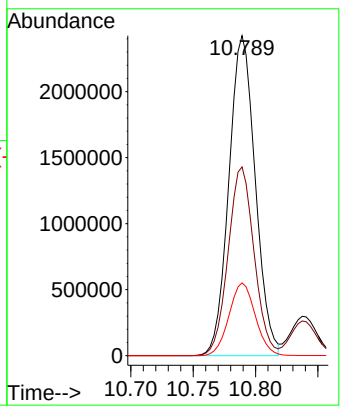


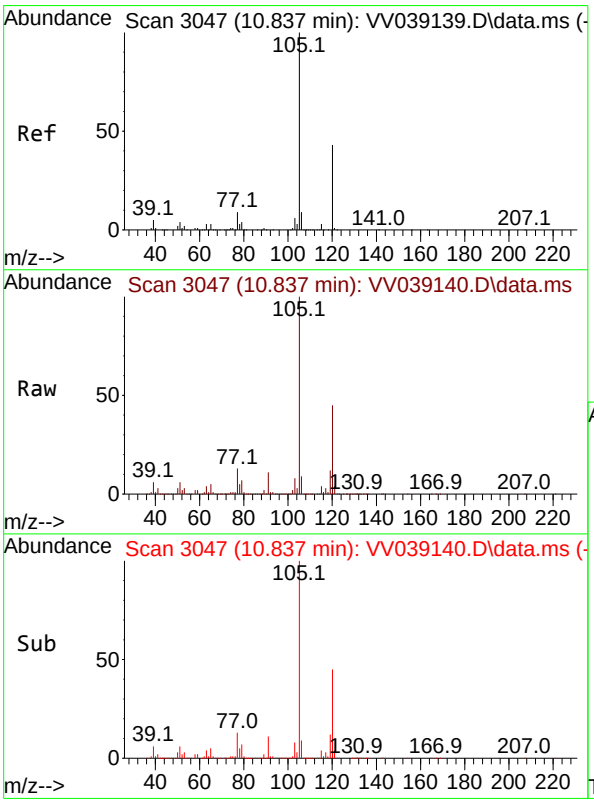

#83
tert-Butylbenzene
Concen: 113.541 ug/l
RT: 10.789 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion:119 Resp: 3572813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 58.2 | 28.5 | 85.6 |
| 134 | 22.8 | 11.5 | 34.4 |

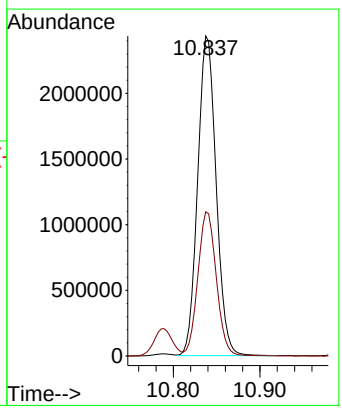


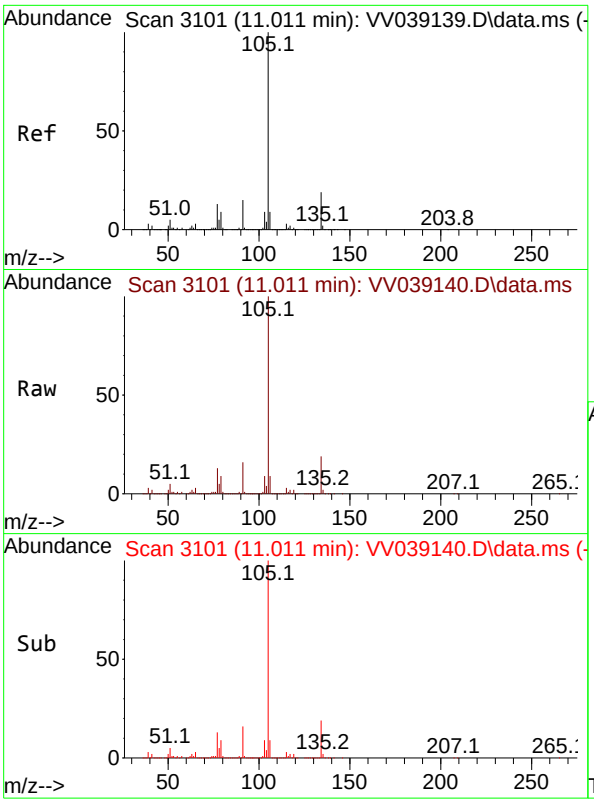




#84
1,2,4-Trimethylbenzene
Concen: 117.550 ug/l
RT: 10.837 min Scan# 3047
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:105 Resp: 3601355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.1 | 22.4 | 67.2 |



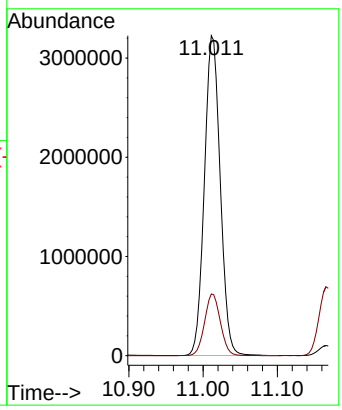


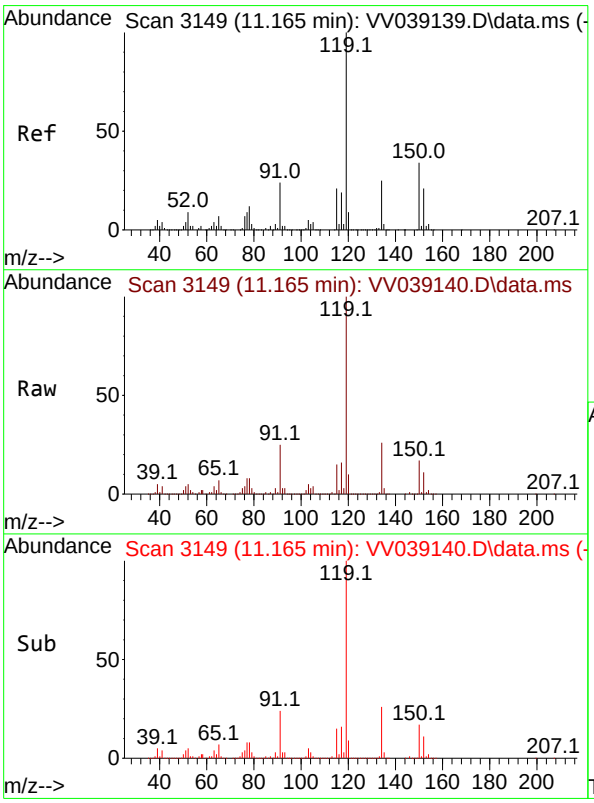

#85
sec-Butylbenzene
Concen: 114.135 ug/l
RT: 11.011 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion:105 Resp: 4763689

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.3 | 9.6 | 28.8 |

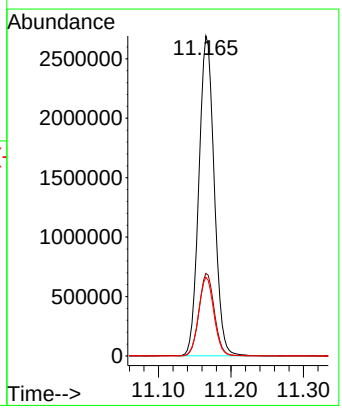


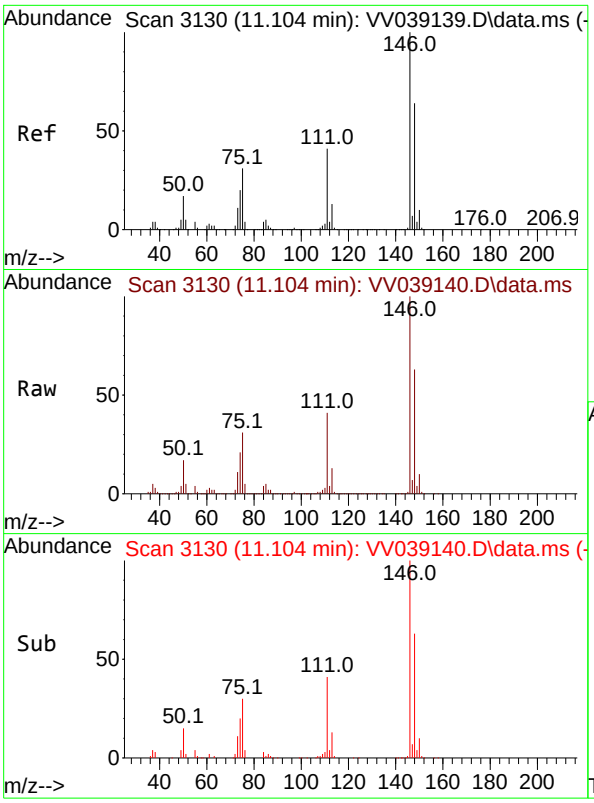




#86
p-Isopropyltoluene
Concen: 113.666 ug/l
RT: 11.165 min Scan# 3149
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:119 Resp: 3948556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.8 | 12.7 | 38.0 |
| 91 | 24.4 | 12.0 | 36.1 |



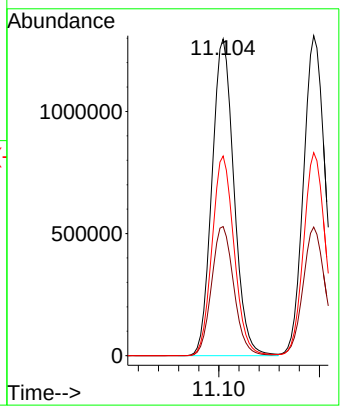


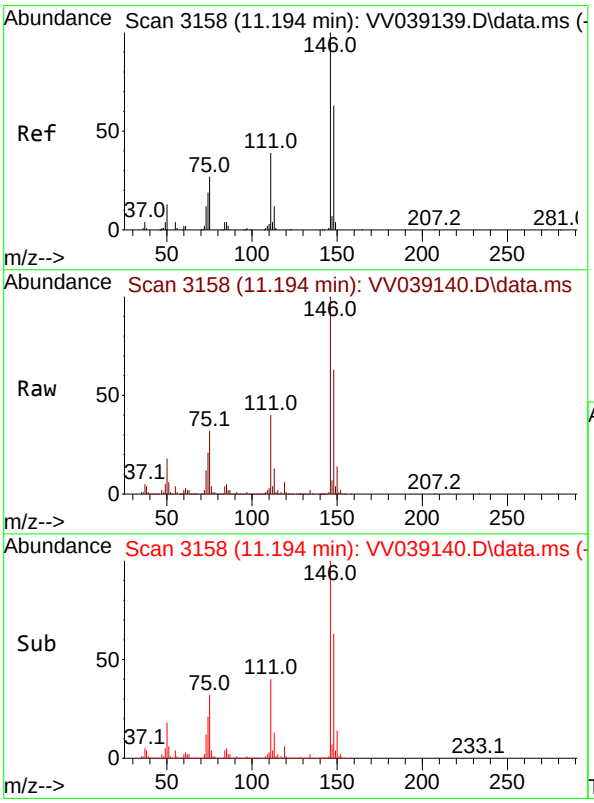

#87
1,3-Dichlorobenzene
Concen: 98.849 ug/l
RT: 11.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion:146 Resp: 1970594

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.1 | 20.9 | 62.8 |
| 148 | 63.3 | 31.8 | 95.3 |

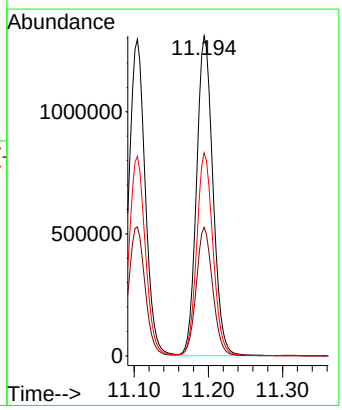


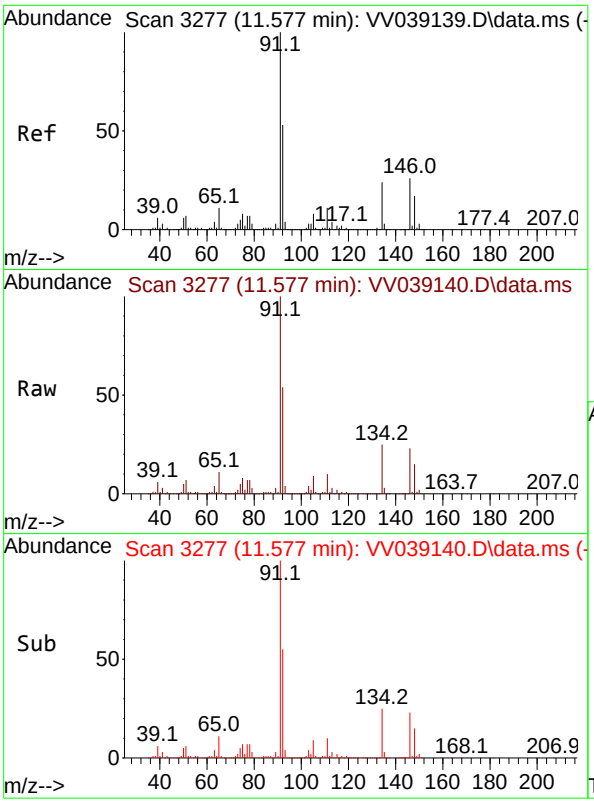




#88
1,4-Dichlorobenzene
Concen: 91.172 ug/l
RT: 11.194 min Scan# 3158
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:146 Resp: 2008676

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.0 | 20.3 | 60.8 |
| 148 | 63.3 | 31.4 | 94.2 |



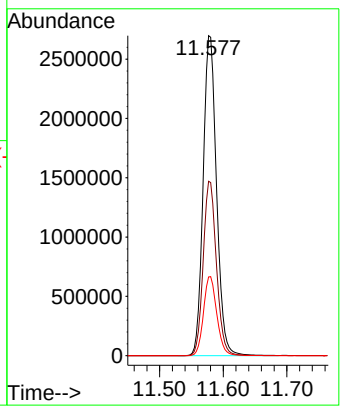


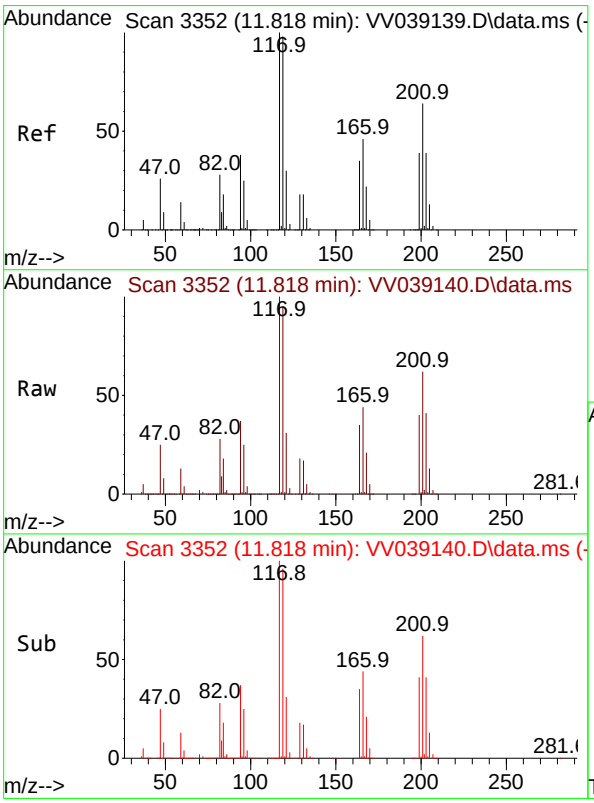

#89
n-Butylbenzene
Concen: 118.754 ug/l
RT: 11.577 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion: 91 Resp: 3939852

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.0 | 26.6 | 79.8 |
| 134 | 24.6 | 12.1 | 36.3 |

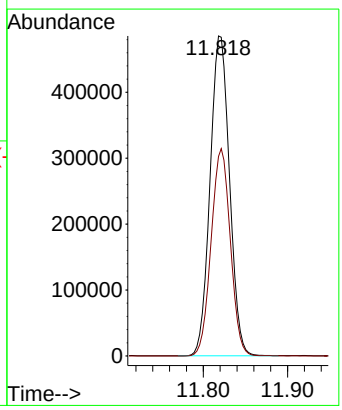


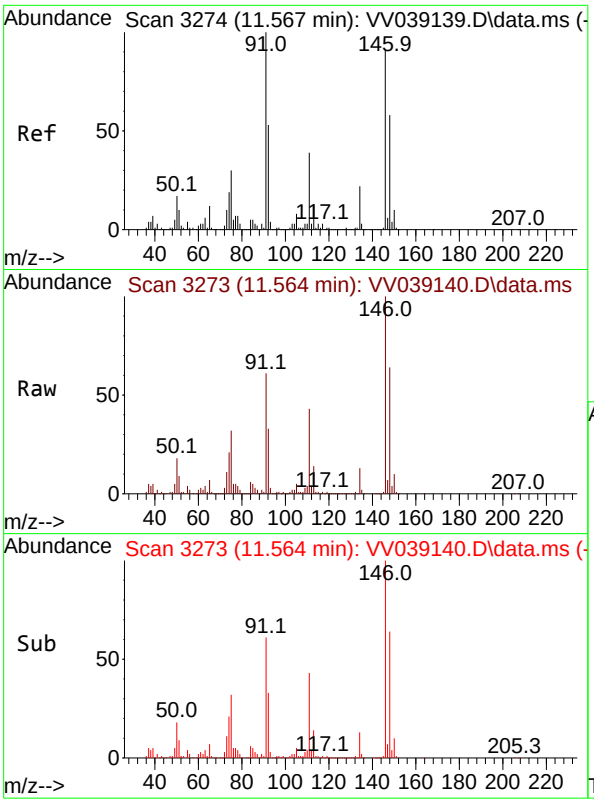




#90
Hexachloroethane
Concen: 90.794 ug/l
RT: 11.818 min Scan# 3352
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:117 Resp: 776688

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 64.0 | 32.3 | 96.8 |



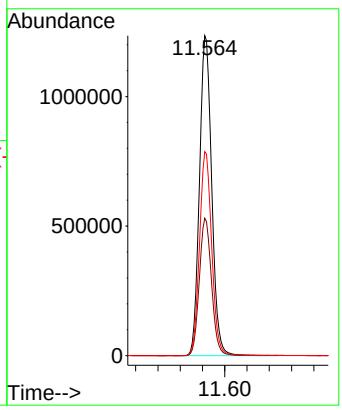


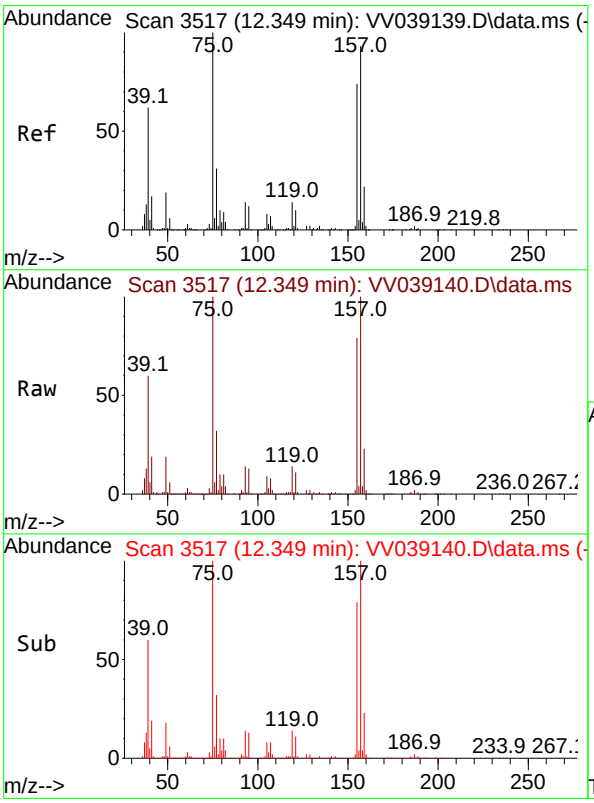

#91
1,2-Dichlorobenzene
Concen: 101.282 ug/l
RT: 11.564 min Scan# 3
Delta R.T. -0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion:146 Resp: 1886394

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.9 | 21.5 | 64.5 |
| 148 | 63.5 | 31.9 | 95.7 |

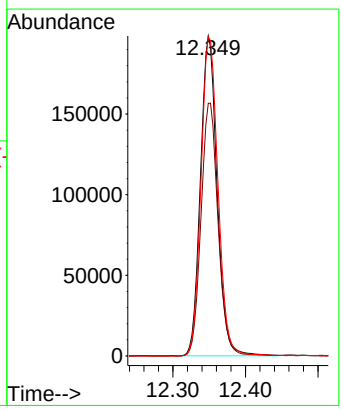


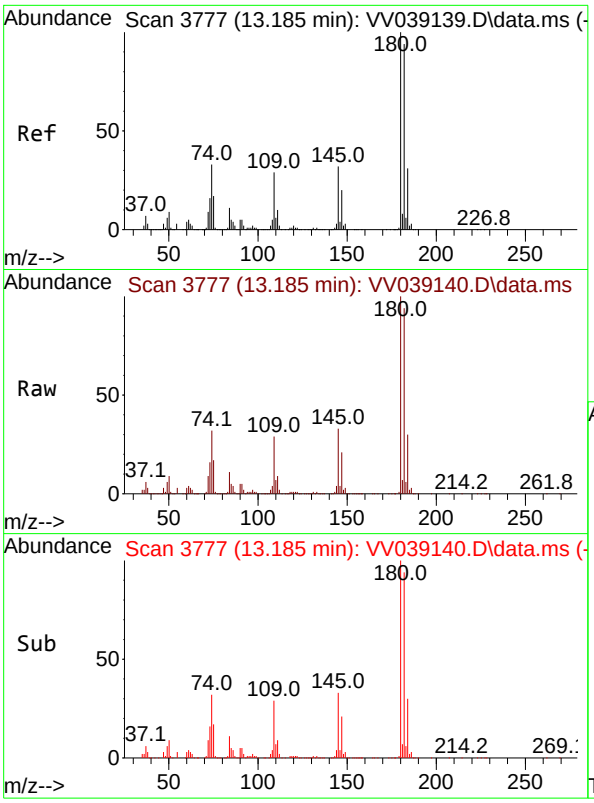




#92
1,2-Dibromo-3-Chloropropane
Concen: 100.015 ug/l
RT: 12.349 min Scan# 3517
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion: 75 Resp: 316446

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 81.0 | 38.6 | 115.8 |
| 157 | 102.1 | 49.5 | 148.3 |



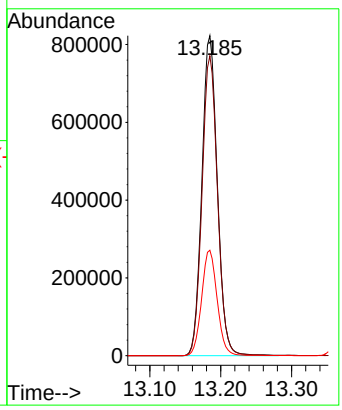


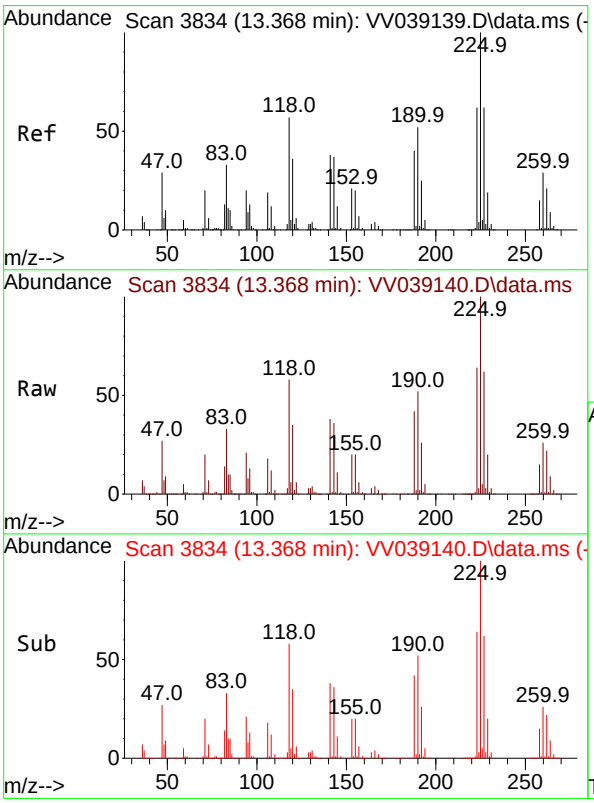

#93
1,2,4-Trichlorobenzene
Concen: 116.564 ug/l
RT: 13.185 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion:180 Resp: 1244510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.2 | 47.1 | 141.4 |
| 145 | 33.1 | 16.3 | 48.8 |

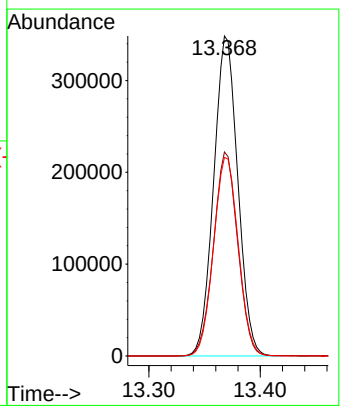


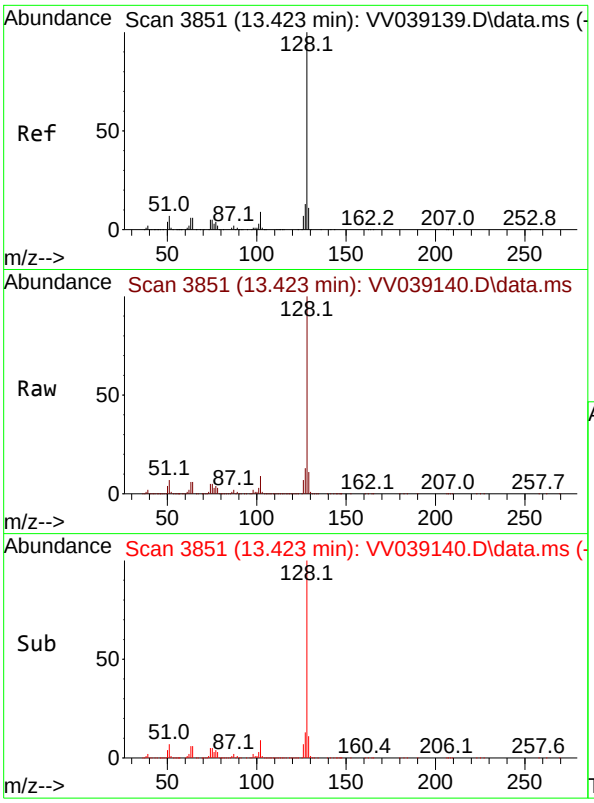




#94
Hexachlorobutadiene
Concen: 94.597 ug/l
RT: 13.368 min Scan# 3834
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:225 Resp: 524789

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 64.0 | 31.6 | 94.7 |
| 227 | 63.7 | 31.8 | 95.4 |



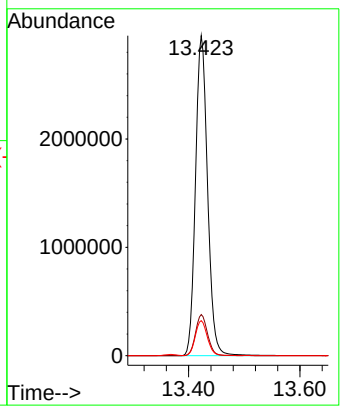


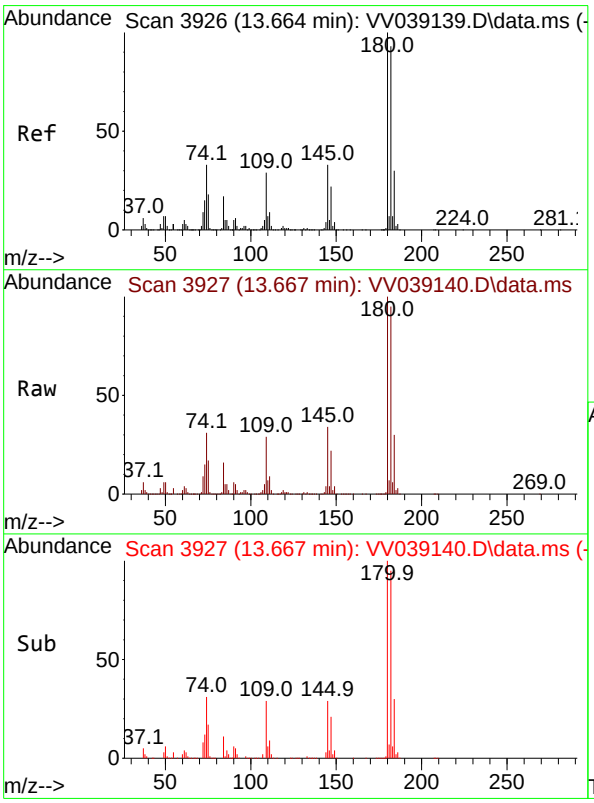

#95
Naphthalene
Concen: 129.371 ug/l
RT: 13.423 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC100

Tgt Ion:128 Resp: 4442612

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.9 | 10.3 | 15.5 |
| 129 | 10.9 | 8.6 | 13.0 |

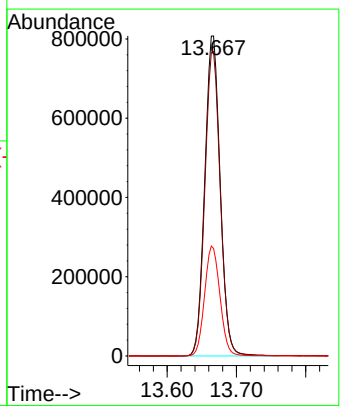



#96
1,2,3-Trichlorobenzene
Concen: 114.143 ug/l
RT: 13.667 min Scan# 3927
Delta R.T. 0.003 min
Lab File: VV039140.D
Acq: 22 Sep 2025 13:49

Tgt Ion:180 Resp: 1246406

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.3 | 46.9 | 140.8 |
| 145 | 34.2 | 17.0 | 51.0 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039142.D
Acq On : 22 Sep 2025 15:37
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 24 07:25:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.596 | 168 | 492799 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.529 | 114 | 835334 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.773 | 117 | 807740 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.172 | 152 | 425480 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.947 | 65 | 45267 | 6.347 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 12.700%# | | | |
| 35) Dibromofluoromethane | 4.503 | 113 | 37959 | 5.653 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 11.300%# | | | |
| 50) Toluene-d8 | 7.239 | 98 | 117860 | 5.976 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 11.960%# | | | |
| 62) 4-Bromofluorobenzene | 10.008 | 95 | 39819 | 4.904 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 9.800%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.121 | 85 | 38031 | 4.875 | ug/l | 93 |
| 3) Chloromethane | 1.230 | 50 | 43830 | 5.234 | ug/l | 97 |
| 4) Vinyl Chloride | 1.298 | 62 | 45941 | 5.124 | ug/l | 99 |
| 5) Bromomethane | 1.494 | 94 | 32301 | 5.715 | ug/l | 100 |
| 6) Chloroethane | 1.558 | 64 | 29857 | 4.506 | ug/l | 93 |
| 7) Trichlorofluoromethane | 1.725 | 101 | 67248 | 5.181 | ug/l | 100 |
| 8) Diethyl Ether | 1.918 | 74 | 25304 | 5.251 | ug/l | 95 |
| 9) 1,1,2-Trichlorotrifluo... | 2.082 | 101 | 39608 | 5.128 | ug/l | 99 |
| 10) Methyl Iodide | 2.195 | 142 | 31463 | 4.278 | ug/l | 95 |
| 11) Tert butyl alcohol | 2.571 | 59 | 40994 | 27.195 | ug/l | 97 |
| 12) 1,1-Dichloroethene | 2.082 | 96 | 38859 | 5.230 | ug/l | 96 |
| 13) Acrolein | 2.015 | 56 | 6095 | 23.302 | ug/l | 98 |
| 14) Allyl chloride | 2.355 | 41 | 70683 | 5.326 | ug/l | 96 |
| 15) Acrylonitrile | 2.677 | 53 | 128729 | 26.639 | ug/l | 99 |
| 16) Acetone | 2.121 | 43 | 140190 | 26.199 | ug/l | 98 |
| 17) Carbon Disulfide | 2.253 | 76 | 121350 | 5.340 | ug/l | 99 |
| 18) Methyl Acetate | 2.381 | 43 | 54053 | 5.115 | ug/l | 97 |
| 19) Methyl tert-butyl Ether | 2.712 | 73 | 125944 | 5.319 | ug/l | 96 |
| 20) Methylene Chloride | 2.455 | 84 | 54859 | 5.252 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 2.703 | 96 | 41151 | 5.202 | ug/l | 98 |
| 22) Diisopropyl ether | 3.217 | 45 | 126181 | 4.969 | ug/l # | 64 |
| 23) Vinyl Acetate | 3.191 | 43 | 570043 | 25.661 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 3.117 | 63 | 81764 | 5.265 | ug/l | 96 |
| 25) 2-Butanone | 3.879 | 43 | 140360 | 25.002 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 3.812 | 77 | 68656 | 5.006 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 3.825 | 96 | 40984 | 4.698 | ug/l | 88 |
| 28) Bromochloromethane | 4.153 | 49 | 25874 | 3.774 | ug/l | 97 |
| 29) Tetrahydrofuran | 4.243 | 42 | 86190 | 24.110 | ug/l | 94 |
| 30) Chloroform | 4.281 | 83 | 86066 | 5.308 | ug/l | 99 |
| 31) Cyclohexane | 4.580 | 56 | 69326 | 5.450 | ug/l # | 94 |
| 32) 1,1,1-Trichloroethane | 4.513 | 97 | 74539 | 5.310 | ug/l | 95 |
| 36) 1,1-Dichloropropene | 4.744 | 75 | 44786 | 4.379 | ug/l | 99 |
| 37) Ethyl Acetate | 3.995 | 43 | 60285 | 4.805 | ug/l # | 73 |
| 38) Carbon Tetrachloride | 4.732 | 117 | 61498 | 4.992 | ug/l | 96 |
| 39) Methylcyclohexane | 6.047 | 83 | 56805 | 4.633 | ug/l | 92 |
| 40) Benzene | 5.014 | 78 | 163948 | 4.959 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039142.D
Acq On : 22 Sep 2025 15:37
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 24 07:25:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.188 | 41 | 17959 | 4.995 | ug/l | # | 86 |
| 42) 1,2-Dichloroethane | 5.047 | 62 | 57857 | 4.994 | ug/l | | 96 |
| 43) Isopropyl Acetate | 5.204 | 43 | 77935 | 4.509 | ug/l | # | 93 |
| 44) Trichloroethene | 5.838 | 130 | 38395 | 5.033 | ug/l | | 89 |
| 45) 1,2-Dichloropropane | 6.098 | 63 | 39327 | 4.786 | ug/l | | 100 |
| 46) Dibromomethane | 6.233 | 93 | 31863 | 5.066 | ug/l | | 98 |
| 47) Bromodichloromethane | 6.429 | 83 | 64039 | 4.925 | ug/l | | 95 |
| 48) Methyl methacrylate | 6.313 | 41 | 29705 | 3.757 | ug/l | | 93 |
| 49) 1,4-Dioxane | 6.307 | 88 | 8999 | 72.413 | ug/l | # | 79 |
| 51) 4-Methyl-2-Pentanone | 7.153 | 43 | 255889 | 23.155 | ug/l | | 99 |
| 52) Toluene | 7.313 | 92 | 94414 | 4.925 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 7.583 | 75 | 53878 | 4.755 | ug/l | | 94 |
| 54) cis-1,3-Dichloropropene | 6.957 | 75 | 58800 | 4.700 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 7.764 | 97 | 43788 | 5.094 | ug/l | | 99 |
| 56) Ethyl methacrylate | 7.722 | 69 | 42598 | 4.173 | ug/l | | 97 |
| 57) 1,3-Dichloropropane | 7.937 | 76 | 63818 | 4.705 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 6.818 | 63 | 81984 | 23.077 | ug/l | | 100 |
| 59) 2-Hexanone | 8.069 | 43 | 179185 | 22.071 | ug/l | | 88 |
| 60) Dibromochloromethane | 8.169 | 129 | 49953 | 5.100 | ug/l | | 96 |
| 61) 1,2-Dibromoethane | 8.278 | 107 | 44729 | 5.088 | ug/l | | 98 |
| 64) Tetrachloroethene | 7.899 | 164 | 34795 | 5.143 | ug/l | | 98 |
| 65) Chlorobenzene | 8.805 | 112 | 114424 | 5.086 | ug/l | | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 8.899 | 131 | 40690 | 5.005 | ug/l | | 95 |
| 67) Ethyl Benzene | 8.940 | 91 | 157790 | 4.633 | ug/l | | 97 |
| 68) m/p-Xylenes | 9.066 | 106 | 115177 | 8.762 | ug/l | | 98 |
| 69) o-Xylene | 9.471 | 106 | 51281 | 4.406 | ug/l | | 100 |
| 70) Styrene | 9.490 | 104 | 83873 | 4.836 | ug/l | | 96 |
| 71) Bromoform | 9.657 | 173 | 31133 | 4.903 | ug/l | # | 97 |
| 73) Isopropylbenzene | 9.857 | 105 | 140251 | 4.545 | ug/l | | 99 |
| 74) N-amyl acetate | 9.731 | 43 | 54436 | 4.422 | ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 10.165 | 83 | 71656 | 5.299 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 10.201 | 75 | 51079m | 5.273 | ug/l | | |
| 77) Bromobenzene | 10.146 | 156 | 39428 | 4.924 | ug/l | | 95 |
| 78) n-propylbenzene | 10.281 | 91 | 168794 | 4.492 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 10.349 | 91 | 110002 | 4.892 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 10.468 | 105 | 114749 | 4.474 | ug/l | | 98 |
| 81) trans-1,4-Dichloro-2-b... | 9.934 | 75 | 18154 | 4.499 | ug/l | | 90 |
| 82) 4-Chlorotoluene | 10.468 | 91 | 122429 | 4.695 | ug/l | | 99 |
| 83) tert-Butylbenzene | 10.789 | 119 | 117310 | 4.586 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 10.841 | 105 | 108157 | 4.343 | ug/l | | 96 |
| 85) sec-Butylbenzene | 11.014 | 105 | 153526 | 4.525 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 11.169 | 119 | 127377 | 4.511 | ug/l | | 98 |
| 87) 1,3-Dichlorobenzene | 11.111 | 146 | 82673 | 5.102 | ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 11.198 | 146 | 91001 | 5.082 | ug/l | | 94 |
| 89) n-Butylbenzene | 11.583 | 91 | 119822 | 4.443 | ug/l | | 96 |
| 90) Hexachloroethane | 11.818 | 117 | 35762 | 5.143 | ug/l | | 95 |
| 91) 1,2-Dichlorobenzene | 11.570 | 146 | 76477 | 5.052 | ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.358 | 75 | 14163 | 5.211 | ug/l | | 92 |
| 93) 1,2,4-Trichlorobenzene | 13.191 | 180 | 39775 | 4.583 | ug/l | | 100 |
| 94) Hexachlorobutadiene | 13.368 | 225 | 22549 | 5.001 | ug/l | | 98 |
| 95) Naphthalene | 13.429 | 128 | 113395 | 4.062 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 13.670 | 180 | 38315 | 4.317 | ug/l | | 96 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039142.D
Acq On : 22 Sep 2025 15:37
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

Quant Time: Sep 24 07:25:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

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

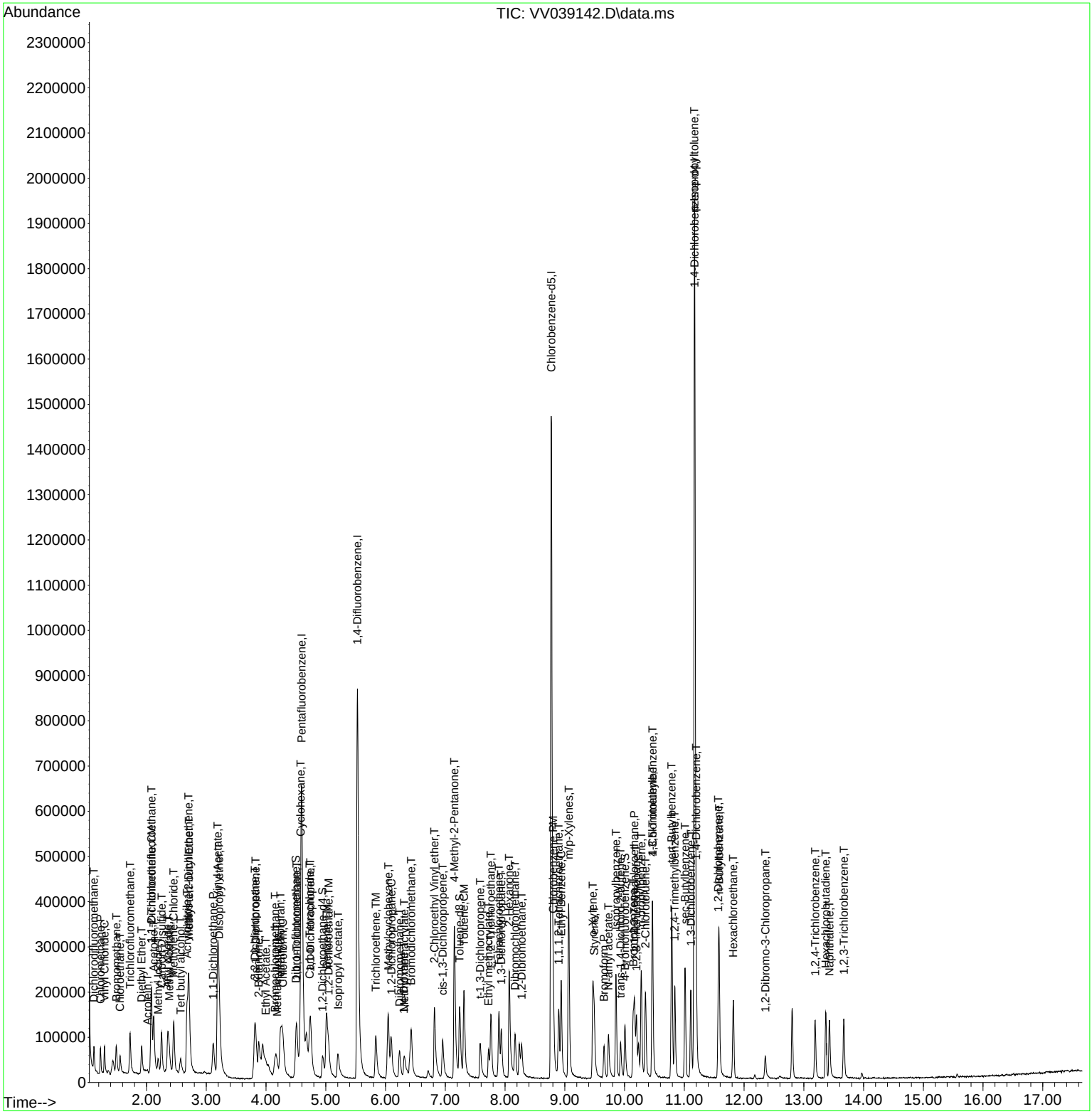
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039142.D
Acq On : 22 Sep 2025 15:37
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 10 Sample Multiplier: 1

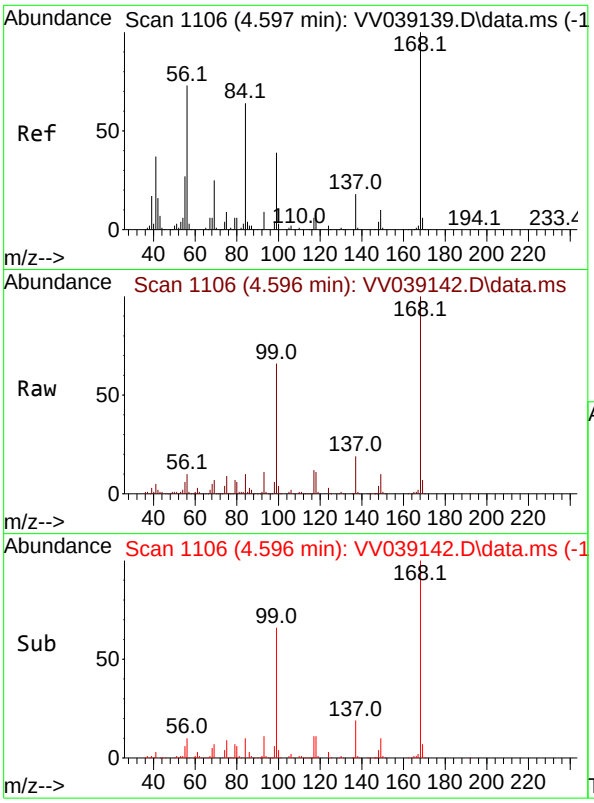
Quant Time: Sep 24 07:25:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

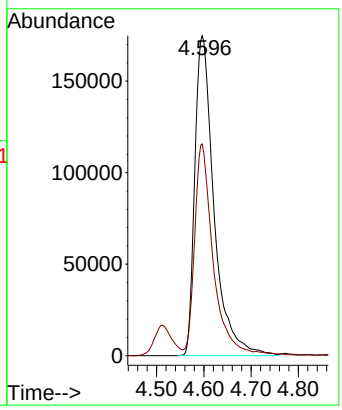





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.596 min Scan# 1
Delta R.T. -0.001 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:168 Resp: 49279

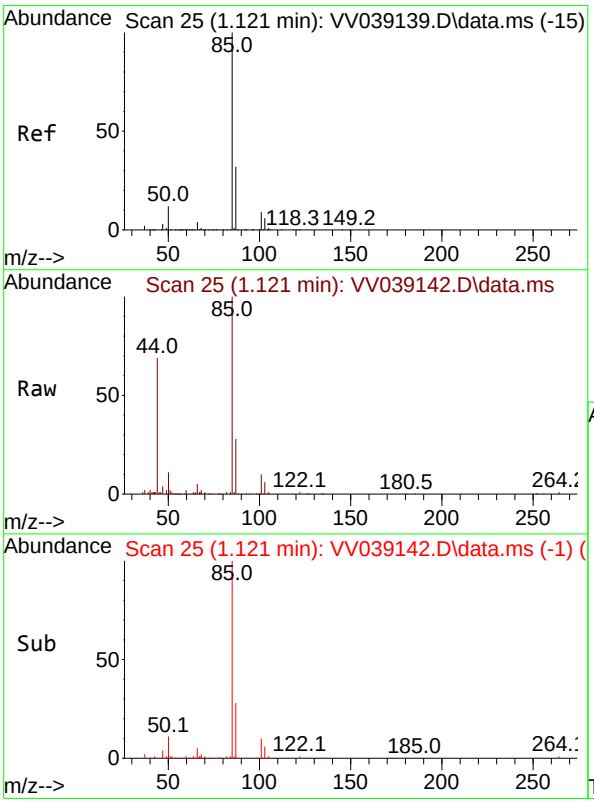
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 65.6 | 49.6 | 74.4 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

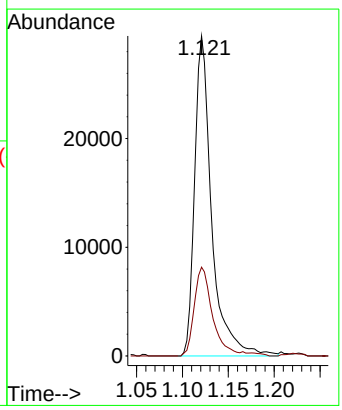
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

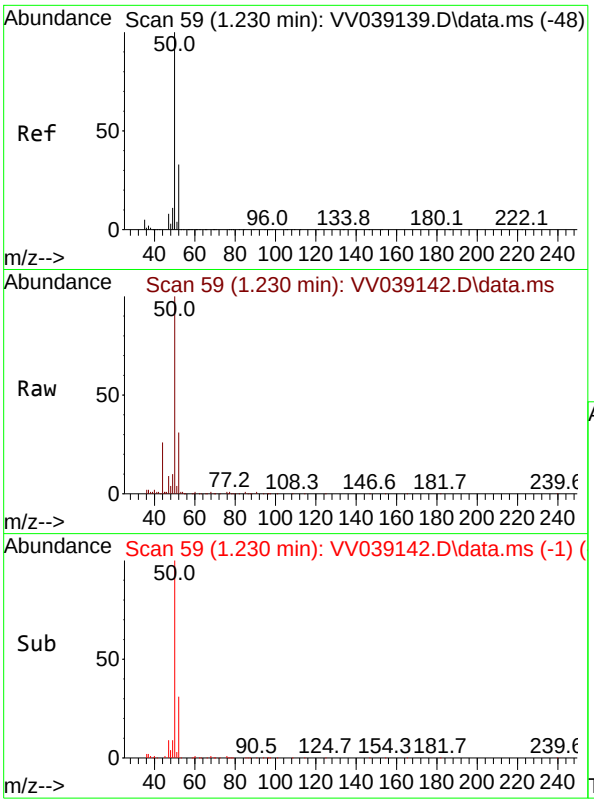



#2
Dichlorodifluoromethane
Concen: 4.875 ug/l
RT: 1.121 min Scan# 25
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 85 Resp: 38031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 27.7 | 16.0 | 47.9 |

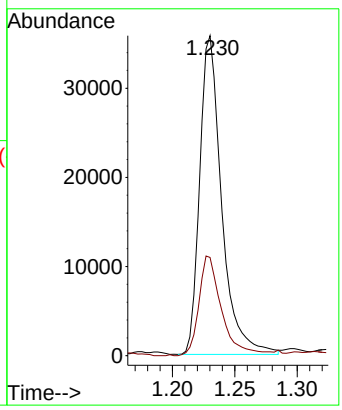





#3
Chloromethane
Concen: 5.234 ug/l
RT: 1.230 min Scan# 5
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 50 Resp: 4383

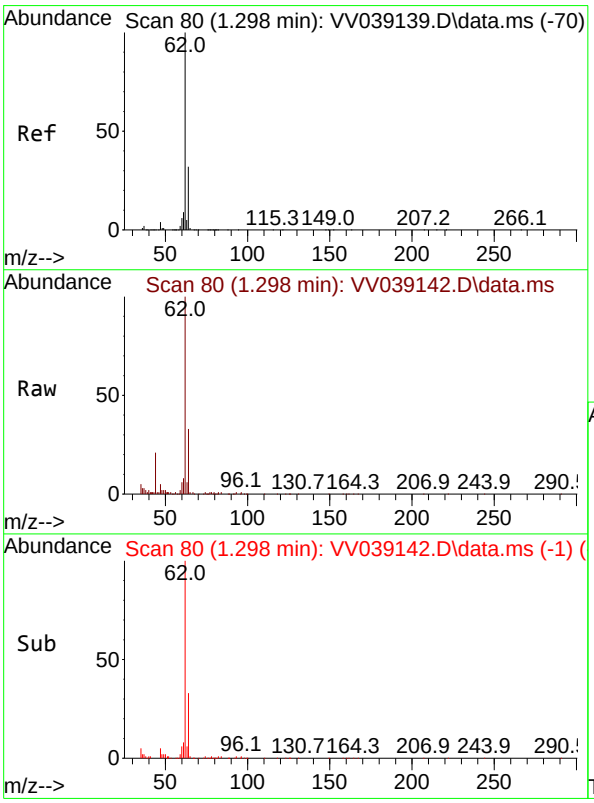
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 30.8 | 26.0 | 39.0 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

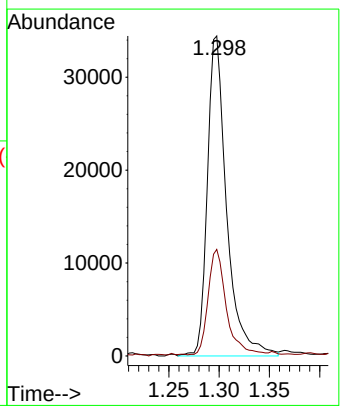
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

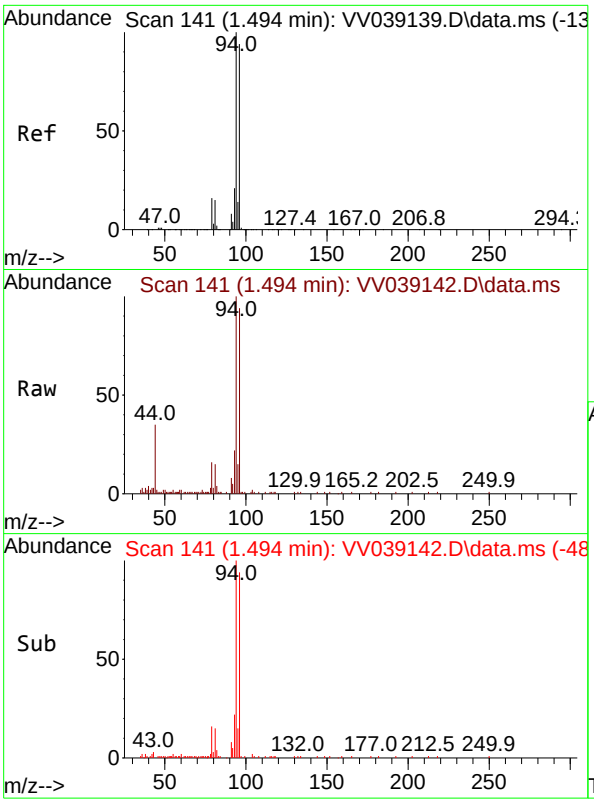



#4
Vinyl Chloride
Concen: 5.124 ug/l
RT: 1.298 min Scan# 80
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 62 Resp: 45941

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.8 | 25.6 | 38.4 |

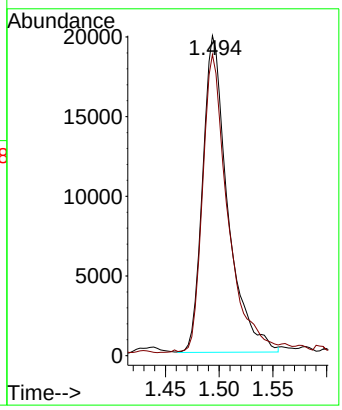





#5
Bromomethane
Concen: 5.715 ug/l
RT: 1.494 min Scan# 14
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 94 Resp: 3230

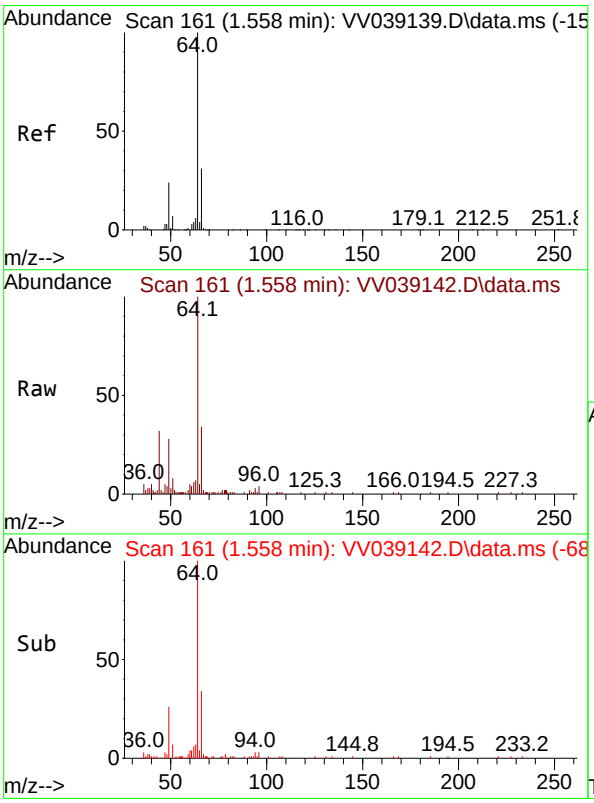
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 93.8 | 74.9 | 112.3 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

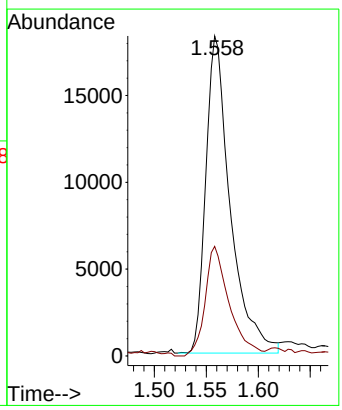
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

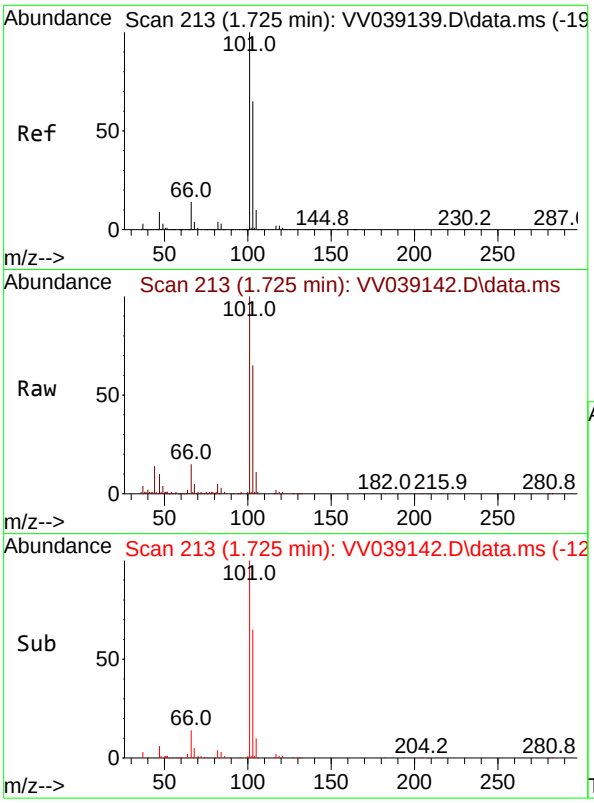



#6
Chloroethane
Concen: 4.506 ug/l
RT: 1.558 min Scan# 161
Delta R.T. 0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 64 Resp: 29857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 34.6 | 24.6 | 36.8 |

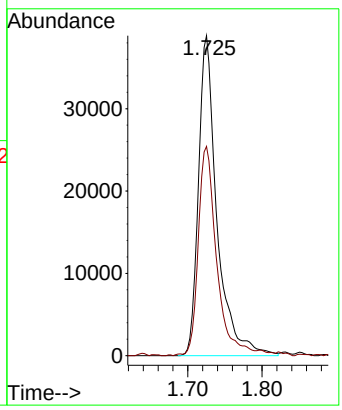





#7
Trichlorofluoromethane
Concen: 5.181 ug/l
RT: 1.725 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:101 Resp: 6724

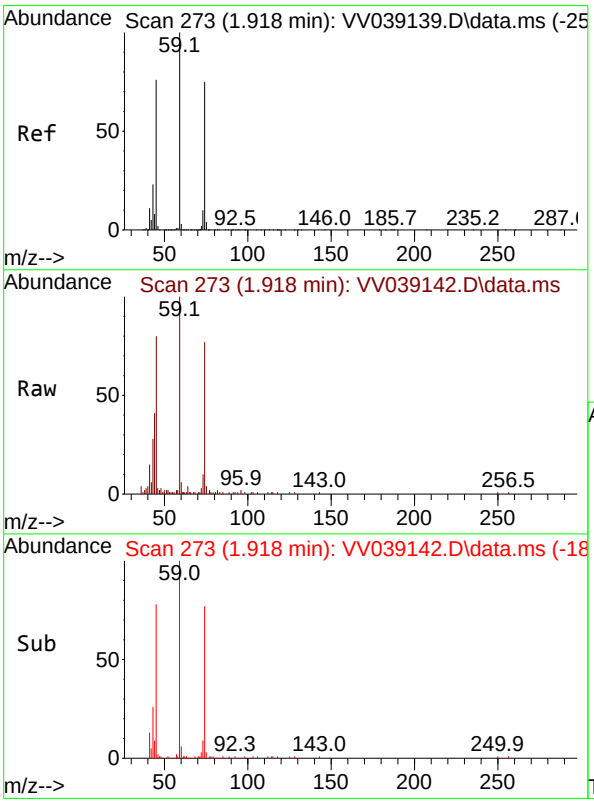
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.9 | 52.0 | 78.0 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

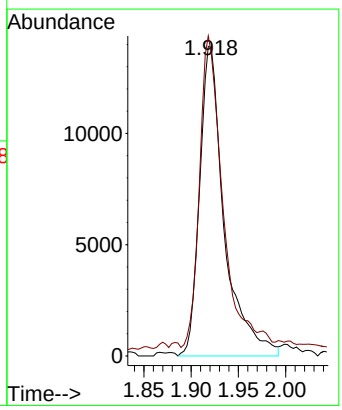
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

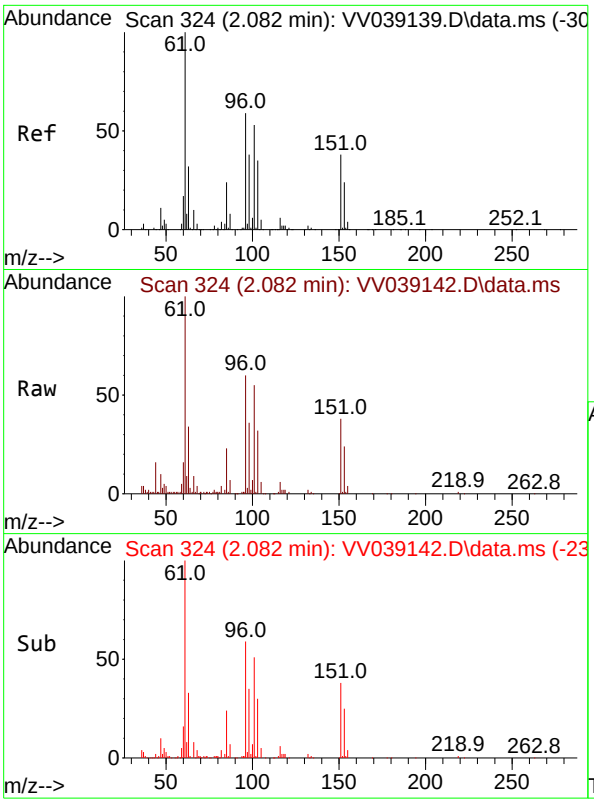



#8
Diethyl Ether
Concen: 5.251 ug/l
RT: 1.918 min Scan# 273
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 74 Resp: 25304

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 94.7 | 49.6 | 148.8 |

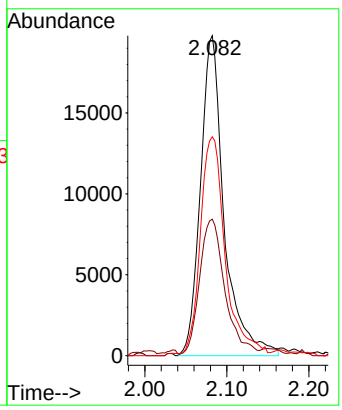





#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.128 ug/l
RT: 2.082 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:101 Resp: 3960

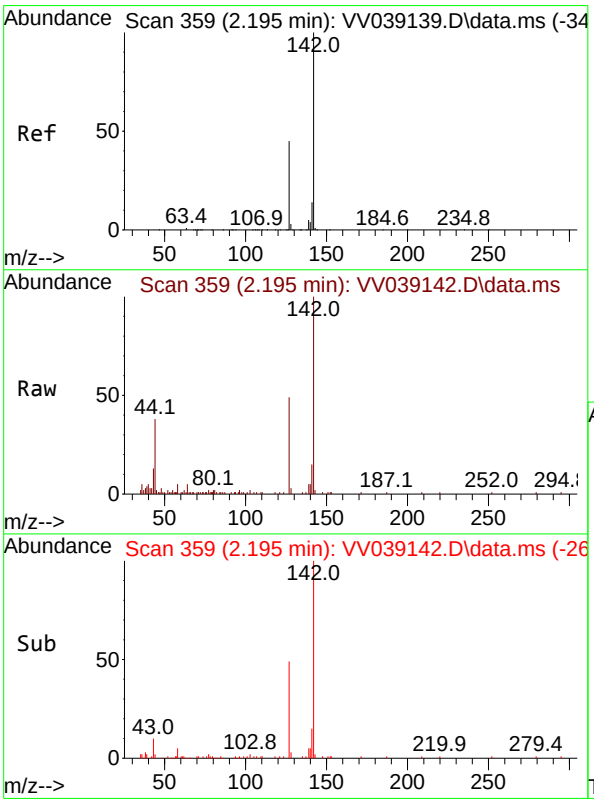
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 44.6 | 36.2 | 54.2 |
| 151 | 69.9 | 56.3 | 84.5 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

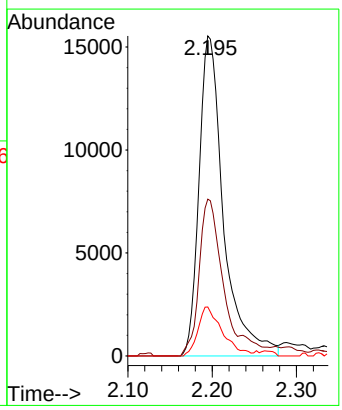
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

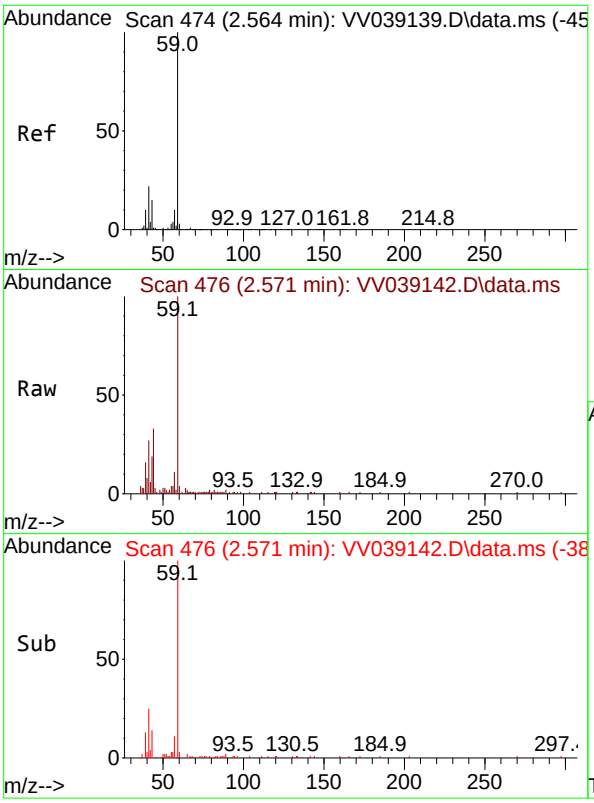



#10
Methyl Iodide
Concen: 4.278 ug/l
RT: 2.195 min Scan# 359
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:142 Resp: 31463

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 49.4 | 36.3 | 54.5 |
| 141 | 15.2 | 11.2 | 16.8 |

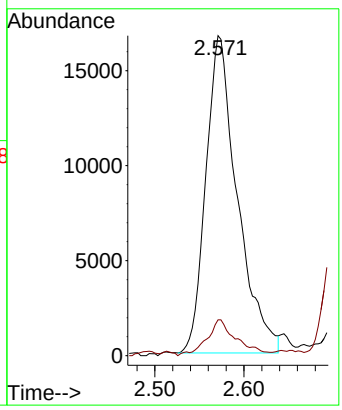





#11
Tert butyl alcohol
Concen: 27.195 ug/l
RT: 2.571 min Scan# 4
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 59 Resp: 4099

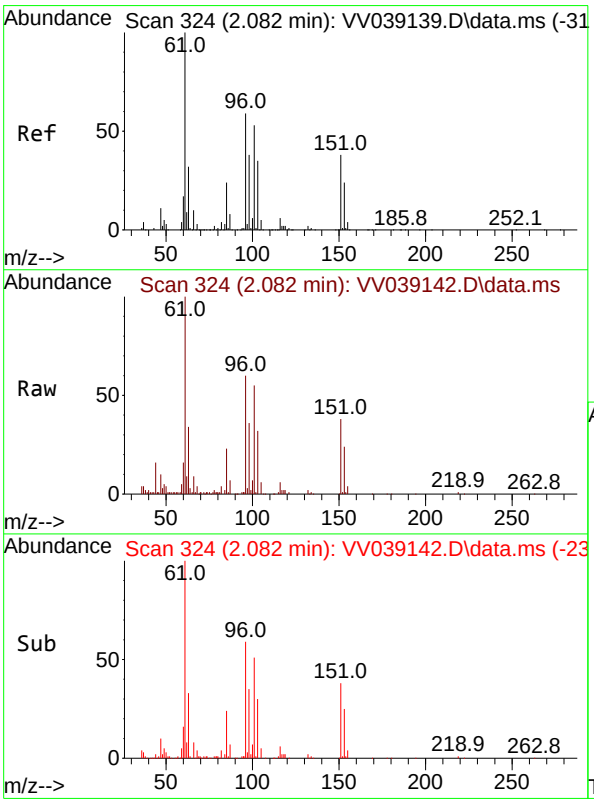
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.8 | 7.8 | 11.8 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

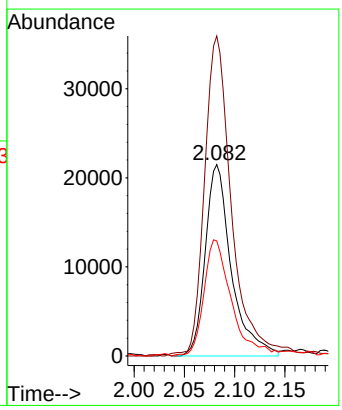
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

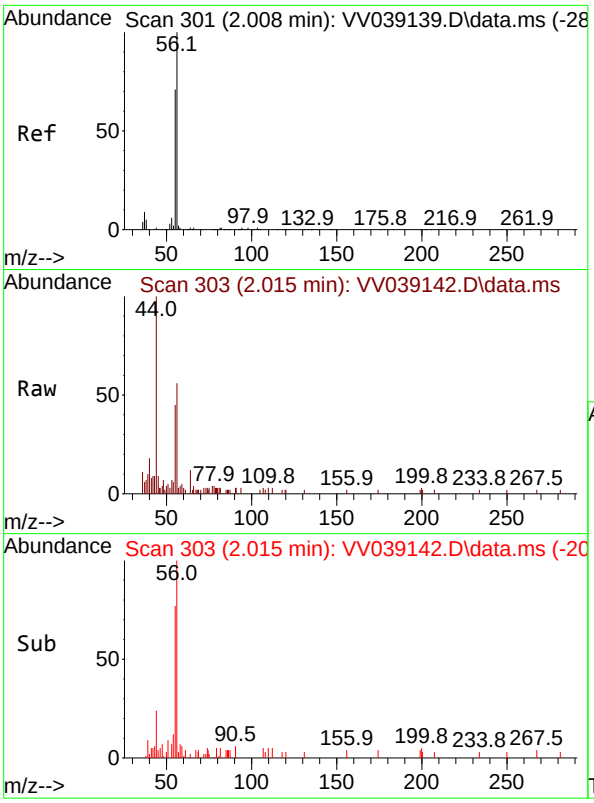



#12
1,1-Dichloroethene
Concen: 5.230 ug/l
RT: 2.082 min Scan# 324
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 96 Resp: 38859

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 165.4 | 136.0 | 204.0 |
| 98 | 59.2 | 51.0 | 76.6 |

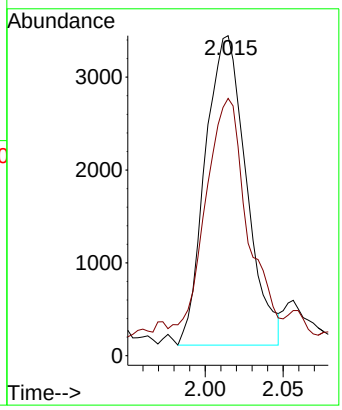





#13
Acrolein
Concen: 23.302 ug/l
RT: 2.015 min Scan# 3
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 56 Resp: 609

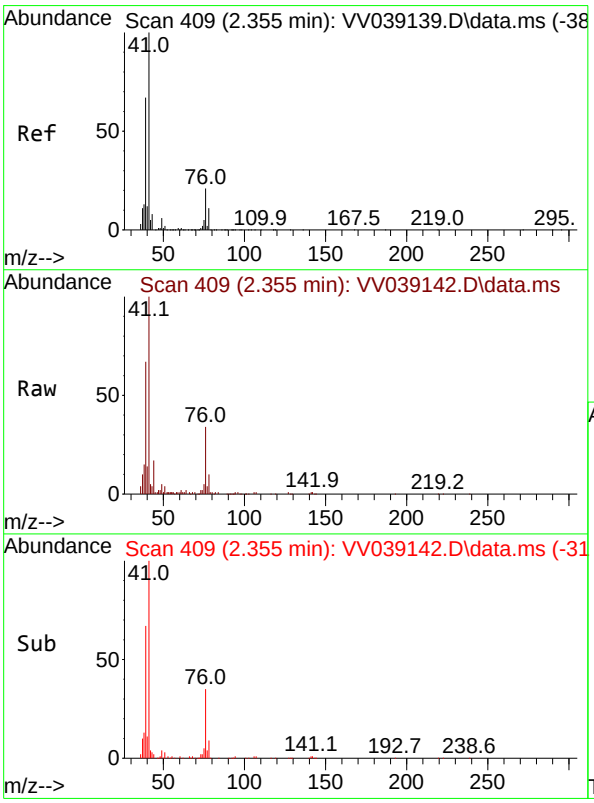
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 72.3 | 56.2 | 84.4 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

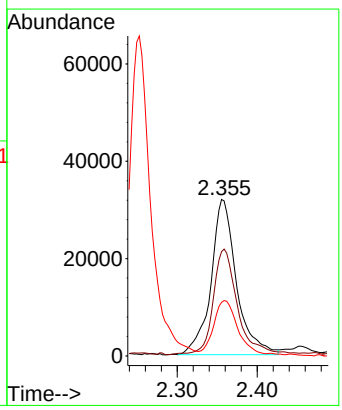
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

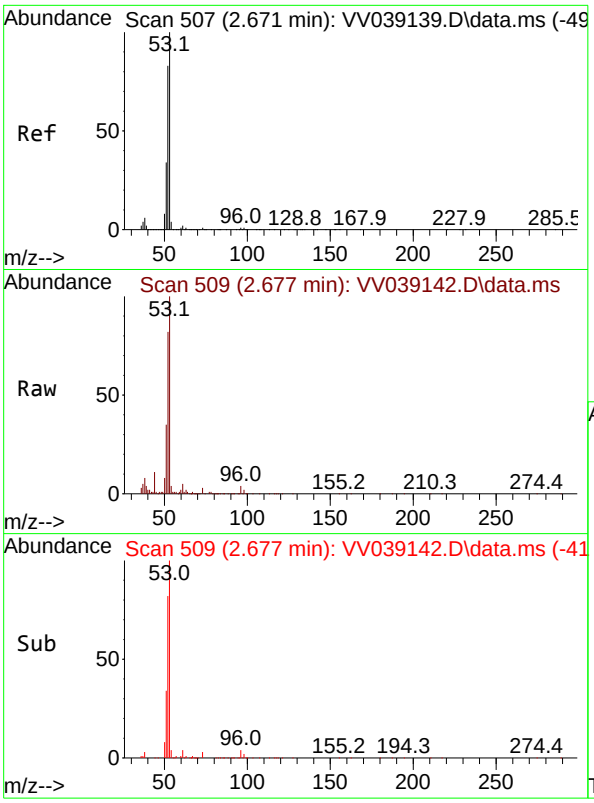



#14
Allyl chloride
Concen: 5.326 ug/l
RT: 2.355 min Scan# 409
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 41 Resp: 70683

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 65.2 | 51.0 | 76.6 |
| 76 | 31.4 | 28.2 | 42.4 |

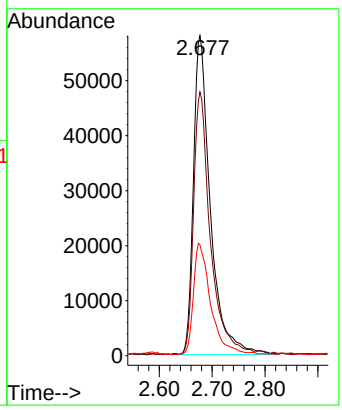





#15
Acrylonitrile
Concen: 26.639 ug/l
RT: 2.677 min Scan# 5
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 53 Resp: 12872

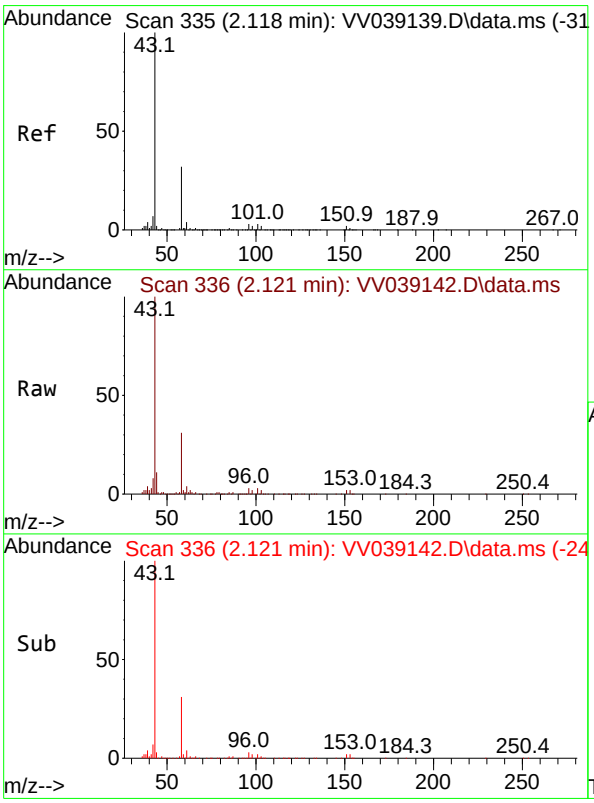
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.4 | 66.1 | 99.1 |
| 51 | 35.5 | 28.5 | 42.7 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

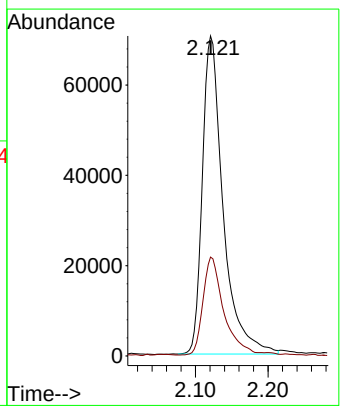
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

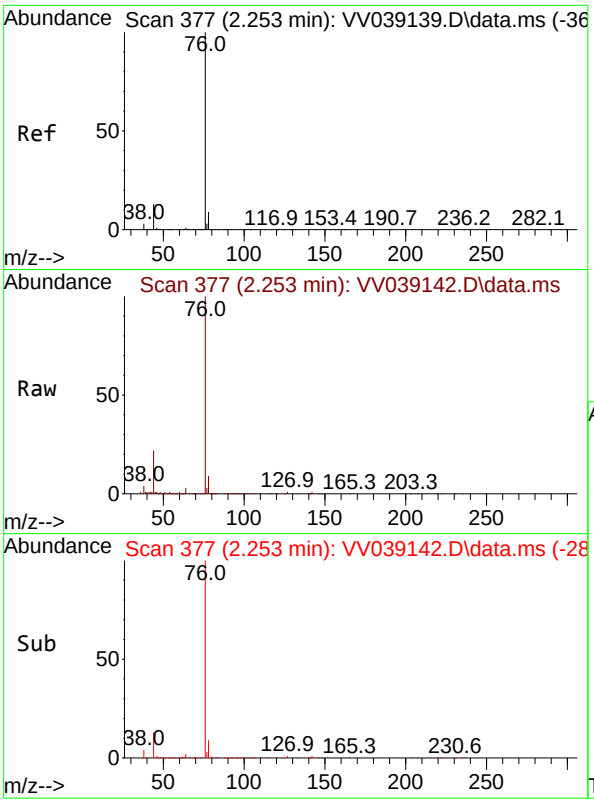



#16
Acetone
Concen: 26.199 ug/l
RT: 2.121 min Scan# 336
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 43 Resp: 140190

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 30.8 | 25.8 | 38.6 |






#17
Carbon Disulfide
Concen: 5.340 ug/l
RT: 2.253 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

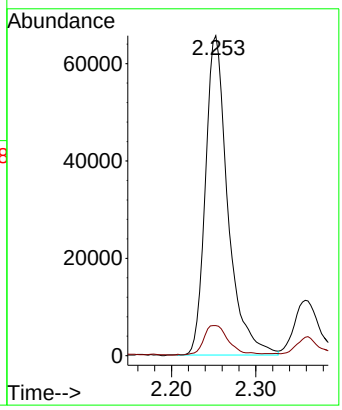
Tgt Ion: 76 Resp: 12135

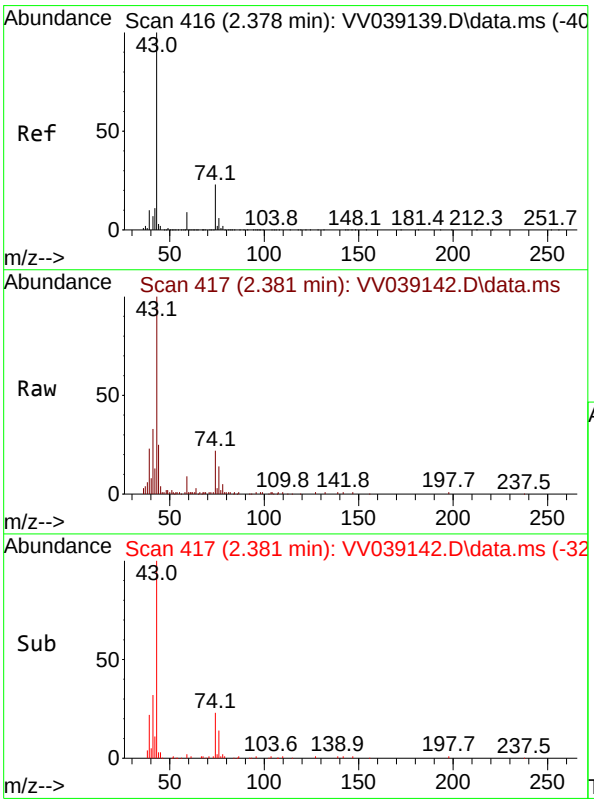
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.0 | 7.4 | 11.0 |

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

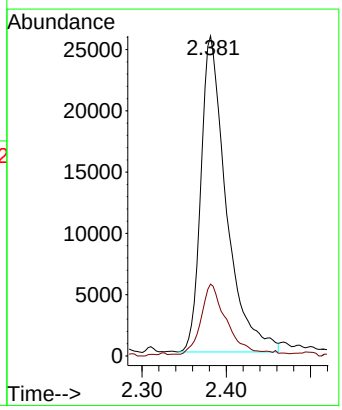


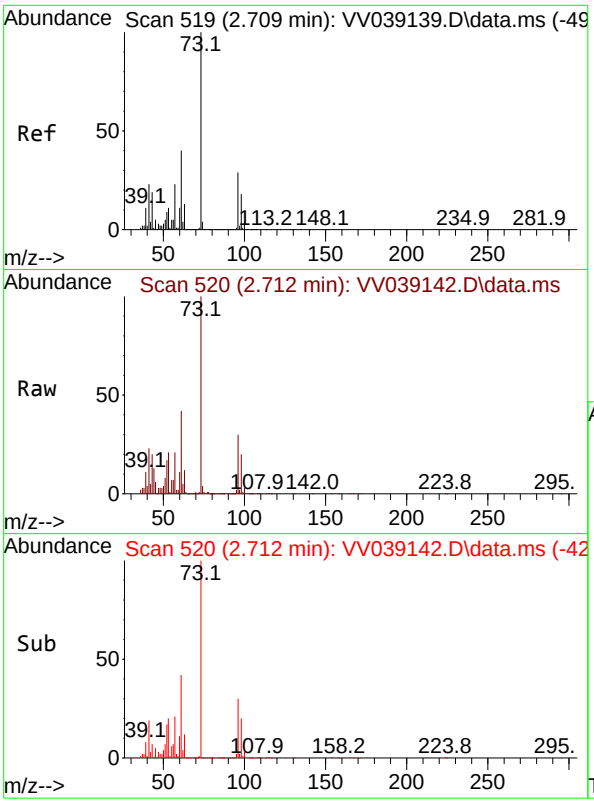




#18
Methyl Acetate
Concen: 5.115 ug/l
RT: 2.381 min Scan# 417
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 43 Resp: 54053

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 21.7 | 18.6 | 27.8 |

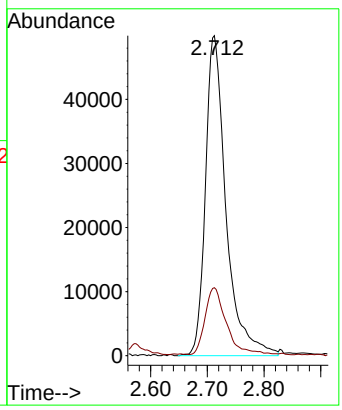





#19
Methyl tert-butyl Ether
Concen: 5.319 ug/l
RT: 2.712 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 73 Resp: 12594

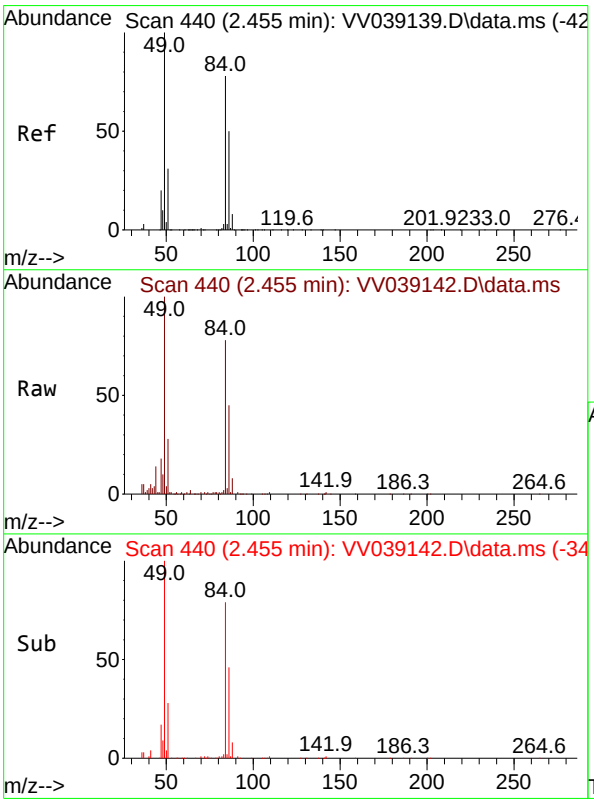
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 20.8 | 18.2 | 27.4 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

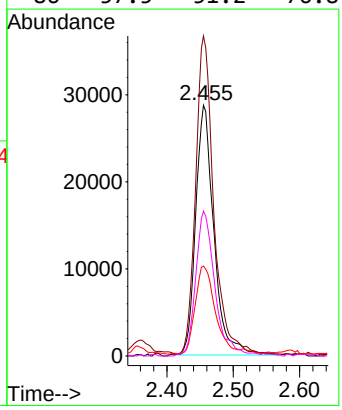
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

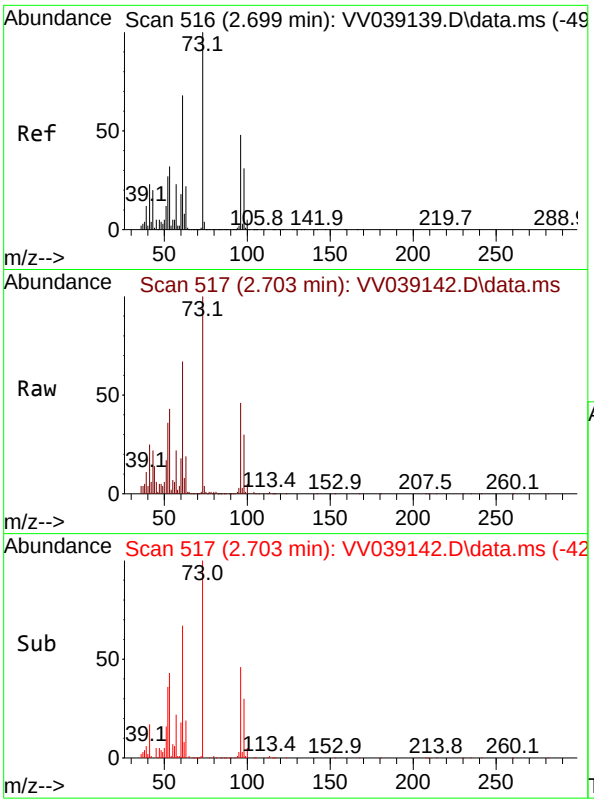



#20
Methylene Chloride
Concen: 5.252 ug/l
RT: 2.455 min Scan# 440
Delta R.T. 0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 84 Resp: 54859

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 127.4 | 102.8 | 154.2 |
| 51 | 35.2 | 31.9 | 47.9 |
| 86 | 57.5 | 51.2 | 76.8 |

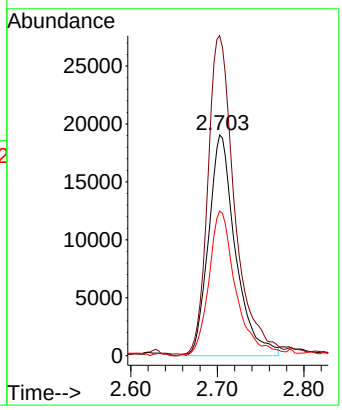





#21
trans-1,2-Dichloroethene
Concen: 5.202 ug/l
RT: 2.703 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 96 Resp: 4115

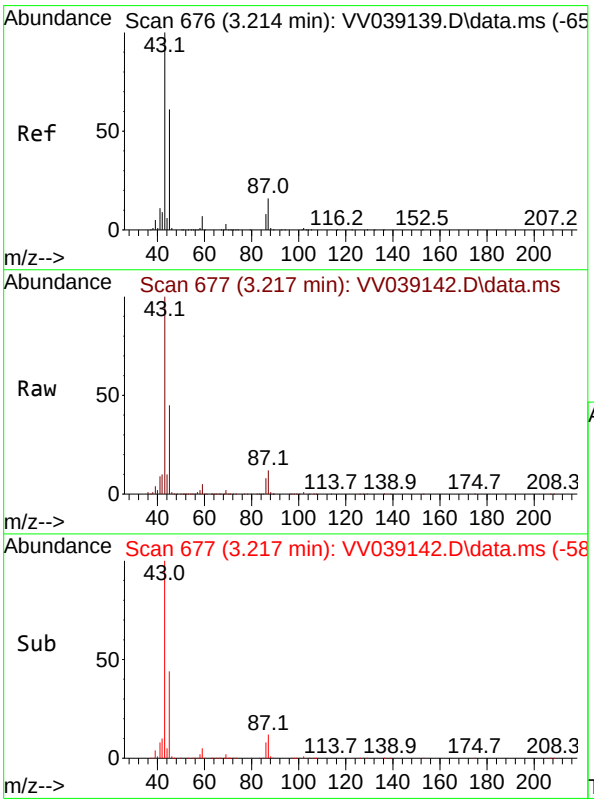
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 144.1 | 112.8 | 169.2 |
| 98 | 65.5 | 51.1 | 76.7 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

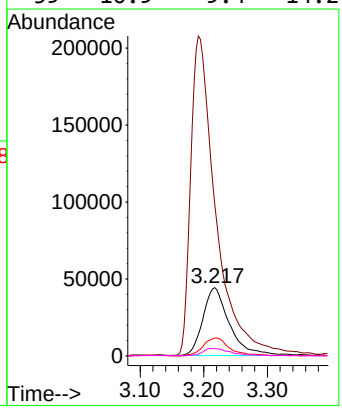
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

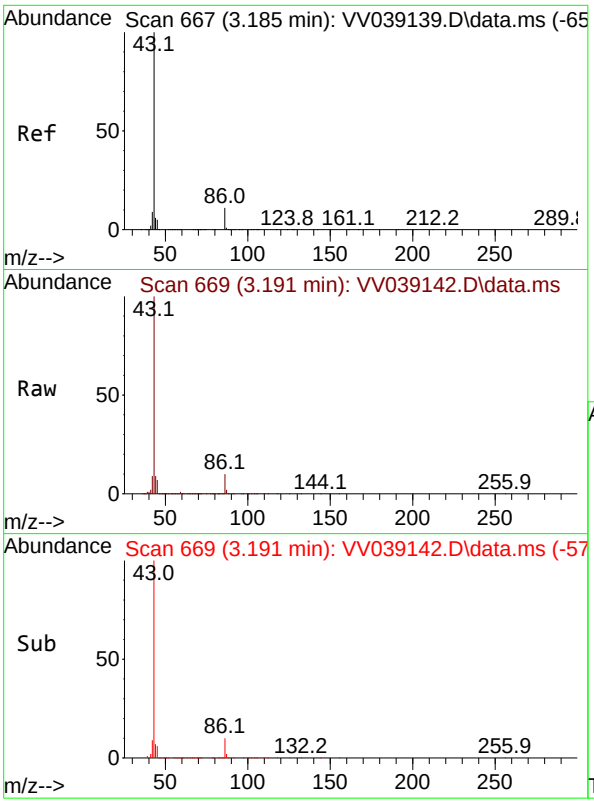



#22
Diisopropyl ether
Concen: 4.969 ug/l
RT: 3.217 min Scan# 677
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 45 Resp: 126181

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 223.1 | 130.9 | 196.3# |
| 87 | 26.4 | 21.1 | 31.7 |
| 59 | 10.9 | 9.4 | 14.2 |






#23
Vinyl Acetate
Concen: 25.661 ug/l
RT: 3.191 min Scan# 6
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

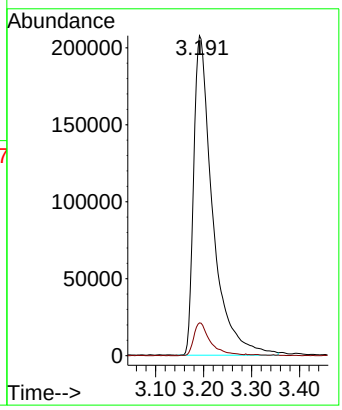
Tgt Ion: 43 Resp: 57004

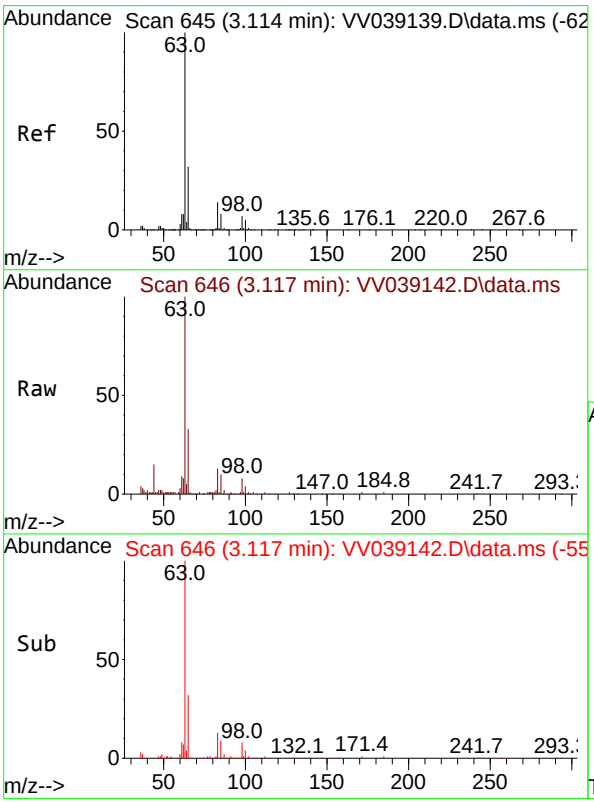
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.3 | 8.4 | 12.6 |

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

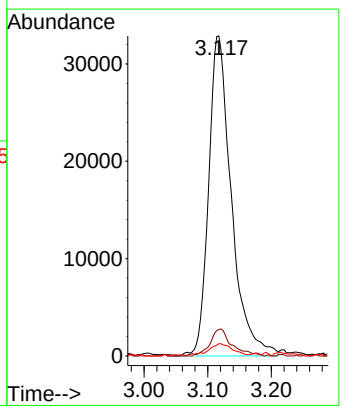


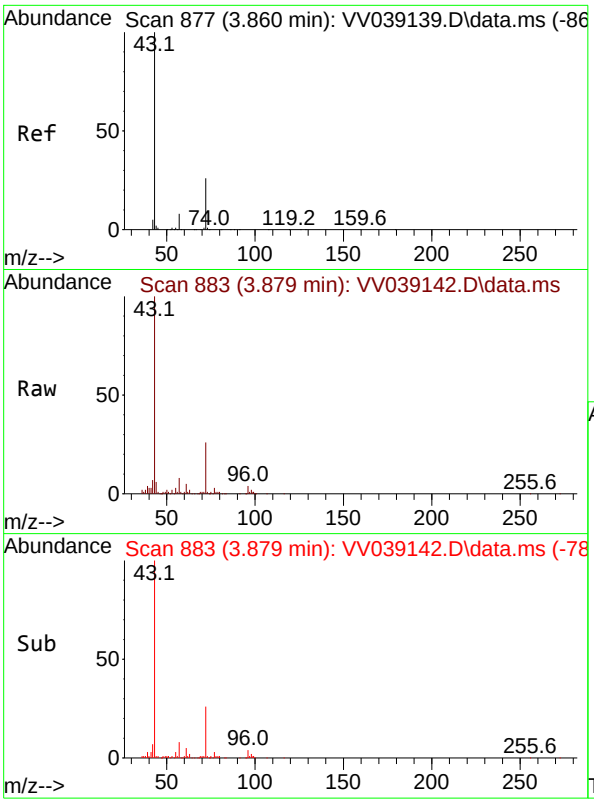




#24
1,1-Dichloroethane
Concen: 5.265 ug/l
RT: 3.117 min Scan# 646
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 63 Resp: 81764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 8.3 | 3.4 | 10.2 |
| 100 | 3.5 | 2.2 | 6.6 |

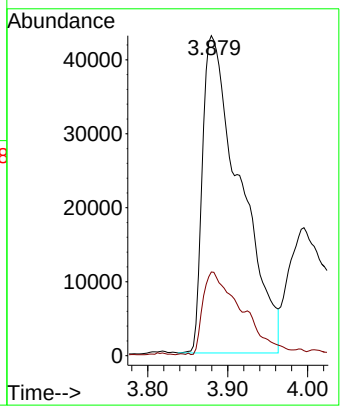





#25
2-Butanone
Concen: 25.002 ug/l
RT: 3.879 min Scan# 8
Delta R.T. 0.019 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 43 Resp: 14036

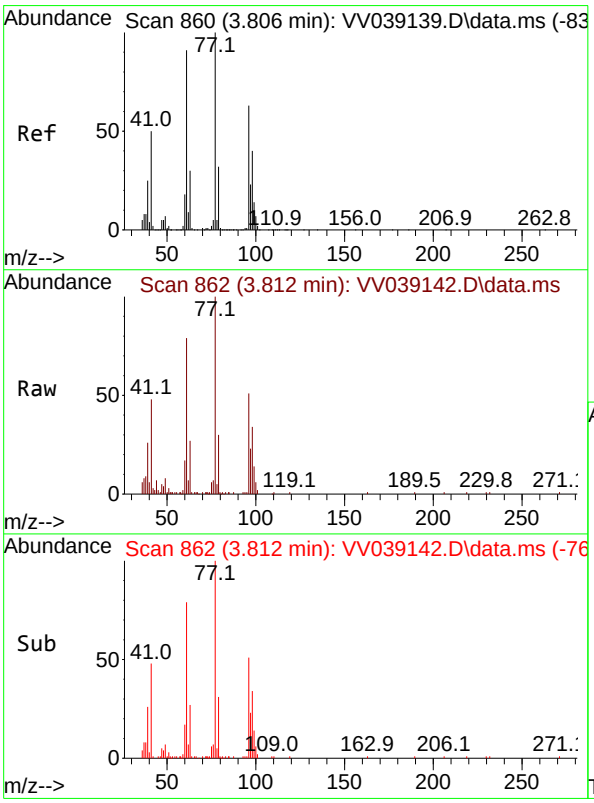
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 25.9 | 21.0 | 31.6 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

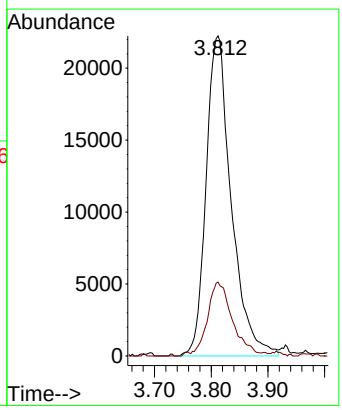
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

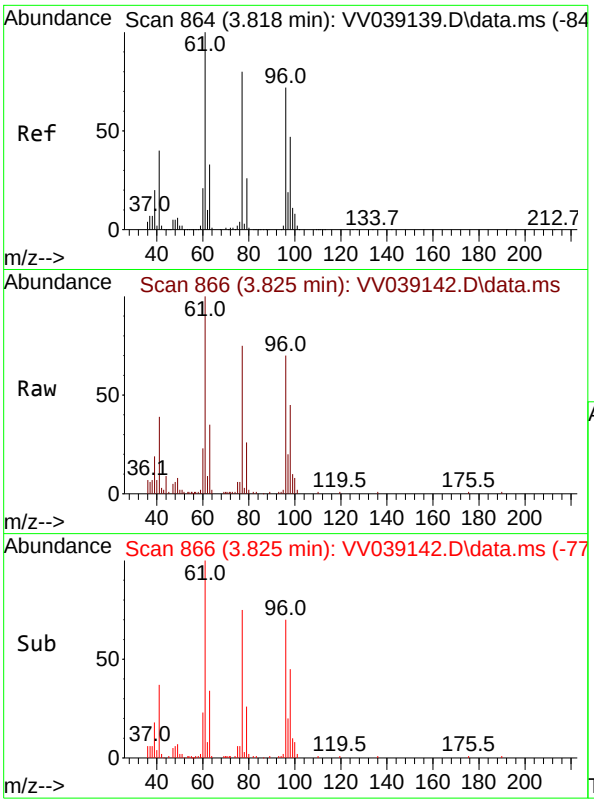



#26
2,2-Dichloropropane
Concen: 5.006 ug/l
RT: 3.812 min Scan# 862
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 77 Resp: 68656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.7 | 11.6 | 34.7 |

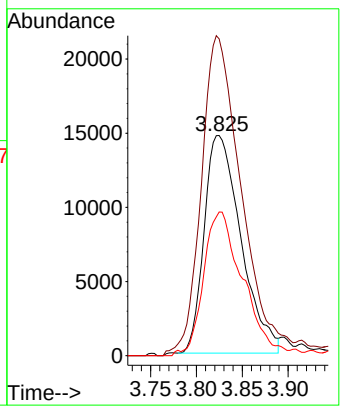





#27
cis-1,2-Dichloroethene
Concen: 4.698 ug/l
RT: 3.825 min Scan# 8
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 96 Resp: 4098

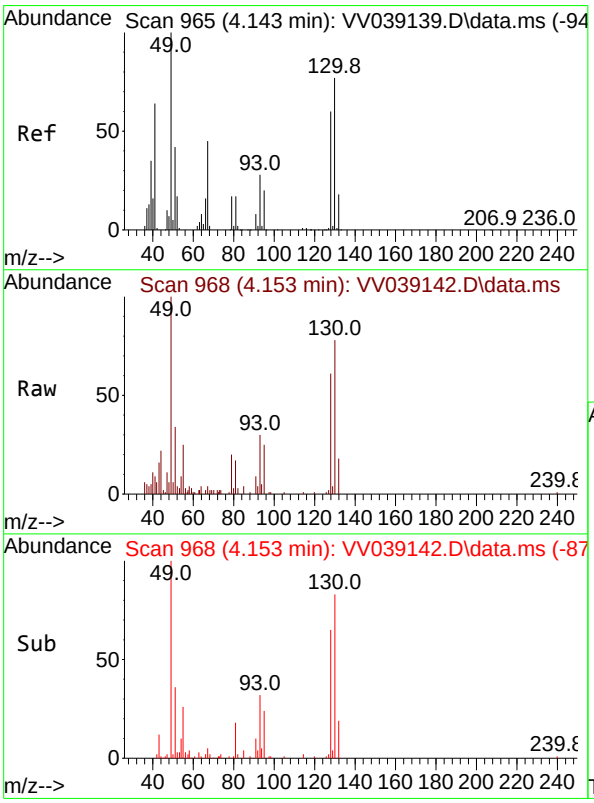
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 159.9 | 0.0 | 286.4 |
| 98 | 70.2 | 0.0 | 126.6 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

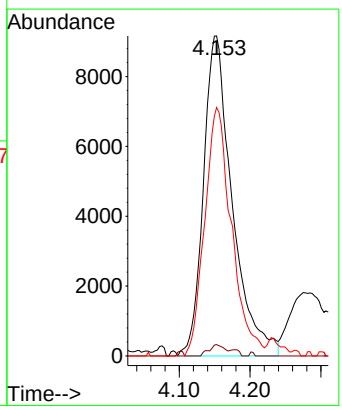
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

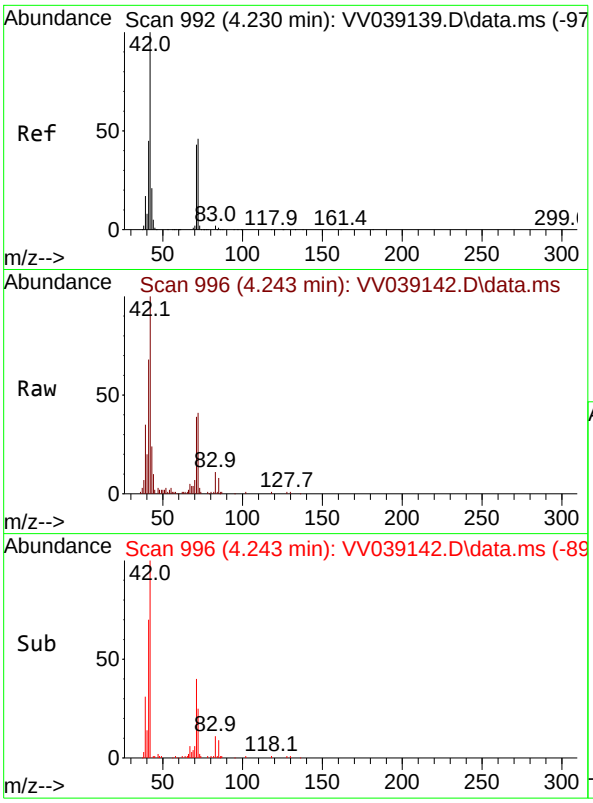



#28
Bromochloromethane
Concen: 3.774 ug/l
RT: 4.153 min Scan# 968
Delta R.T. 0.010 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 49 Resp: 25874

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.9 | 0.0 | 4.2 |
| 130 | 72.2 | 60.2 | 90.2 |

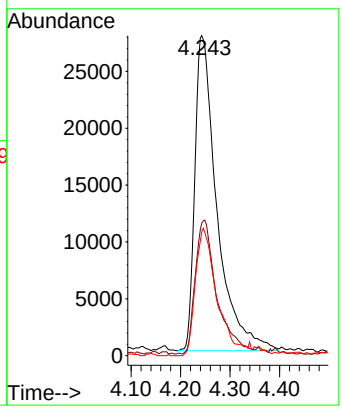





#29
Tetrahydrofuran
Concen: 24.110 ug/l
RT: 4.243 min Scan# 9
Delta R.T. 0.013 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 42 Resp: 8619

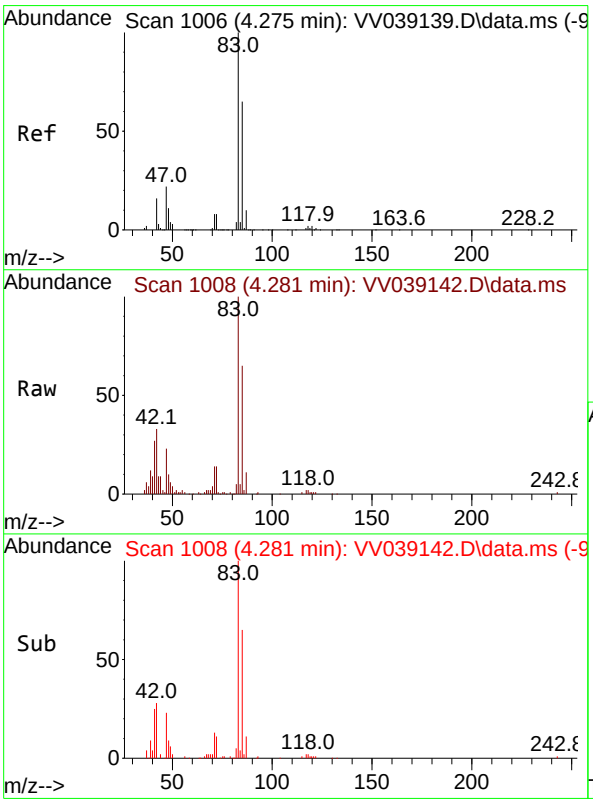
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 41.3 | 36.3 | 54.5 |
| 71 | 39.2 | 34.3 | 51.5 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

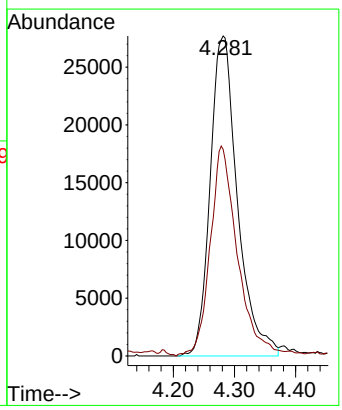
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

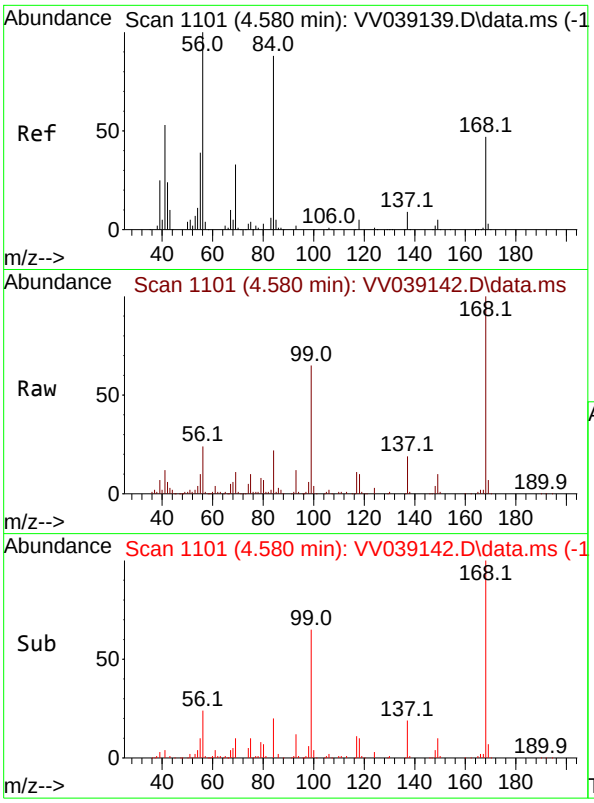



#30
Chloroform
Concen: 5.308 ug/l
RT: 4.281 min Scan# 1008
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 83 Resp: 86066

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.1 | 52.1 | 78.1 |

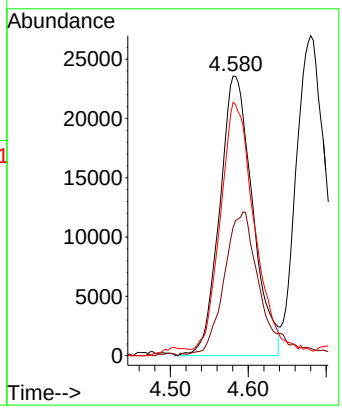





#31
Cyclohexane
Concen: 5.450 ug/l
RT: 4.580 min Scan# 1
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 56 Resp: 6932

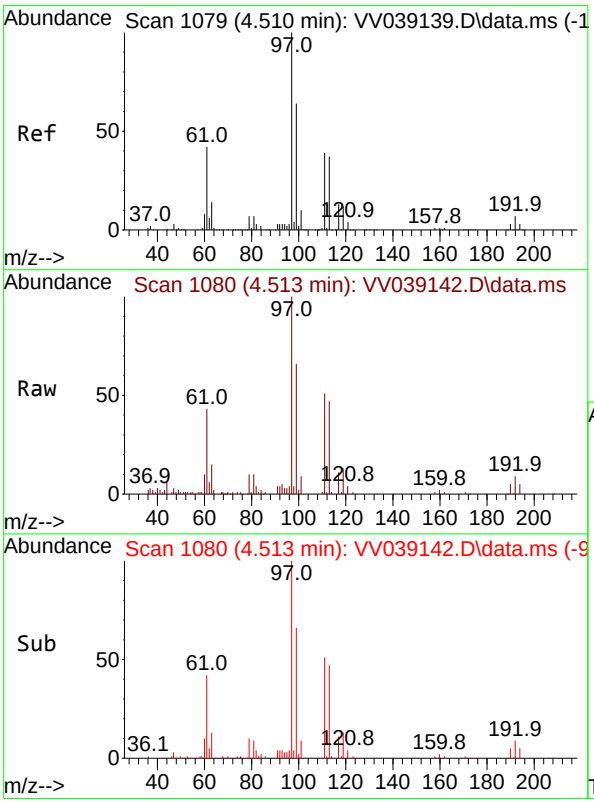
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 45.8 | 26.2 | 39.2# |
| 84 | 88.1 | 70.3 | 105.5 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

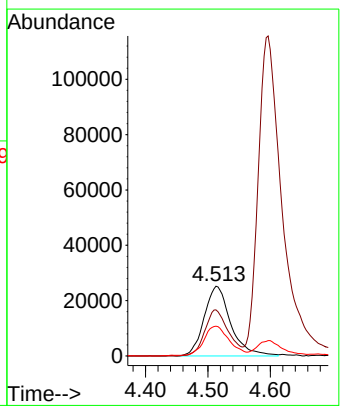
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

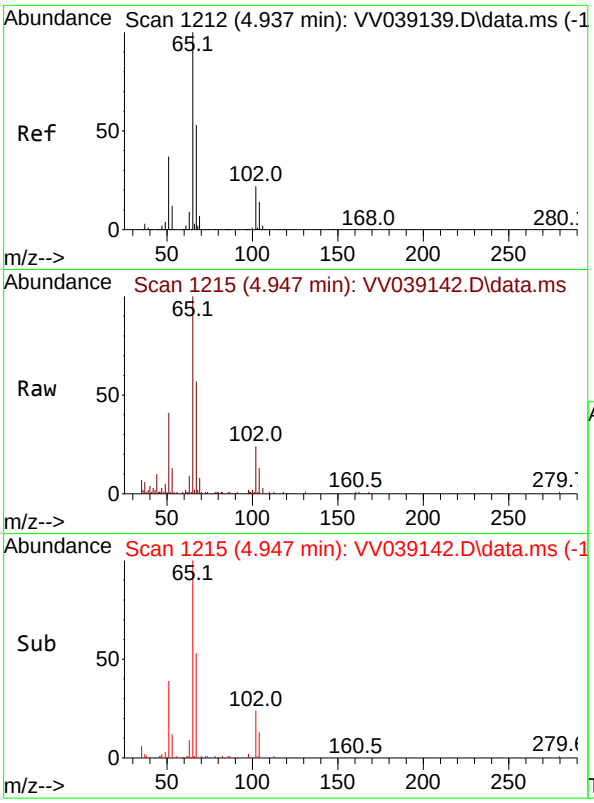



#32
1,1,1-Trichloroethane
Concen: 5.310 ug/l
RT: 4.513 min Scan# 1080
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 97 Resp: 74539

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 58.5 | 49.6 | 74.4 |
| 61 | 39.1 | 34.5 | 51.7 |

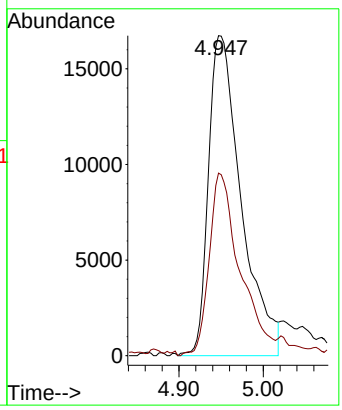





#33
1,2-Dichloroethane-d4
Concen: 6.347 ug/l
RT: 4.947 min Scan# 1
Delta R.T. 0.010 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 65 Resp: 4526

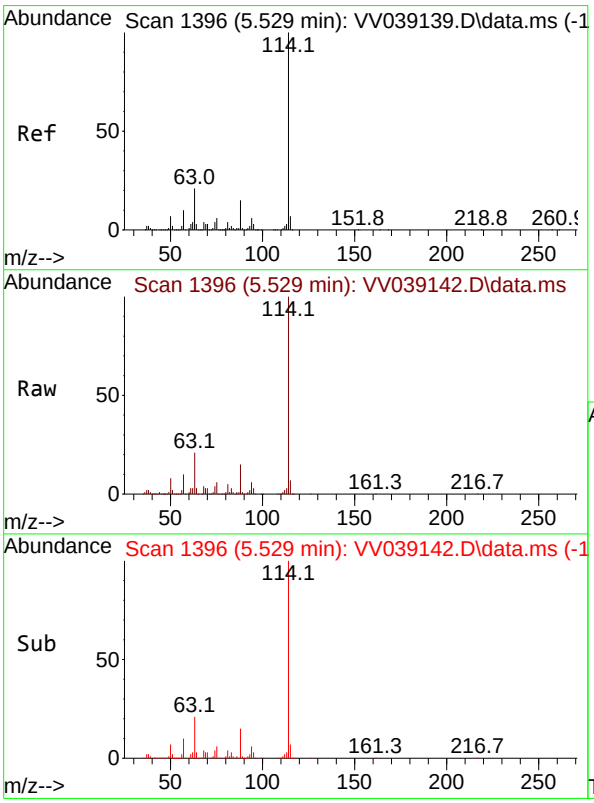
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.6 | 0.0 | 107.0 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

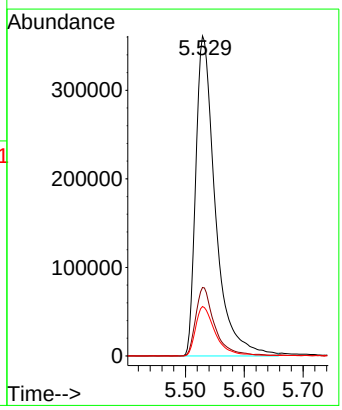
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

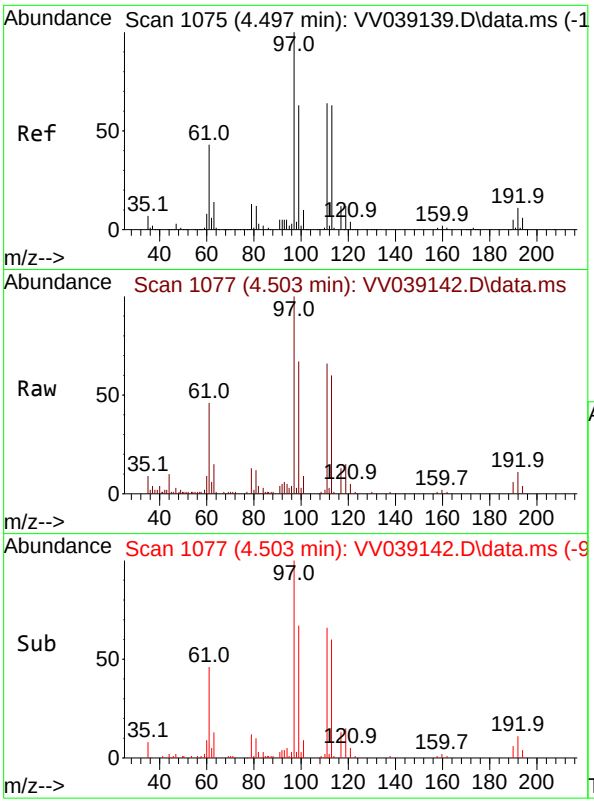



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.529 min Scan# 1396
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:114 Resp: 835334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.4 | 0.0 | 42.6 |
| 88 | 15.5 | 0.0 | 30.8 |

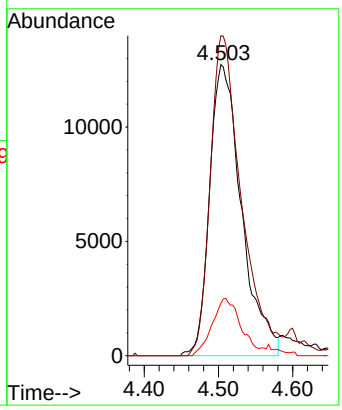





#35
Dibromofluoromethane
Concen: 5.653 ug/l
RT: 4.503 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:113 Resp: 3795

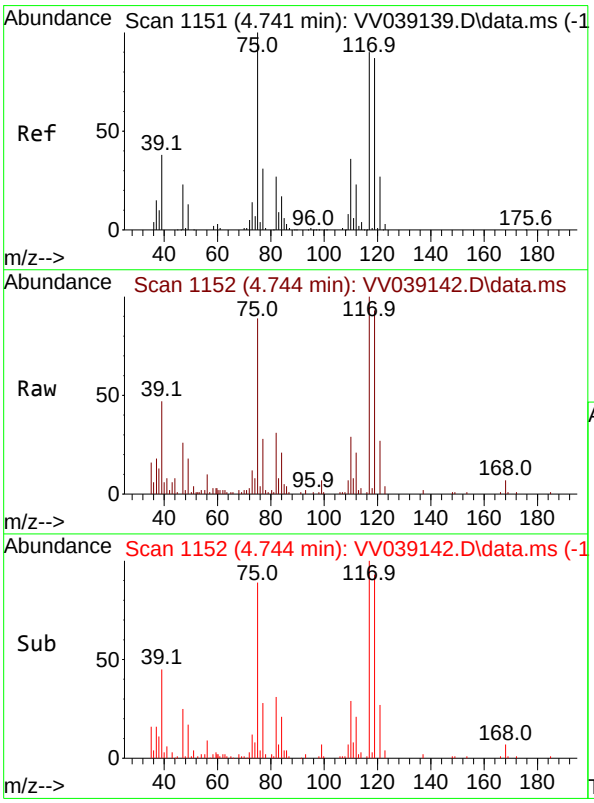
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 107.6 | 82.4 | 123.6 |
| 192 | 17.6 | 13.8 | 20.8 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

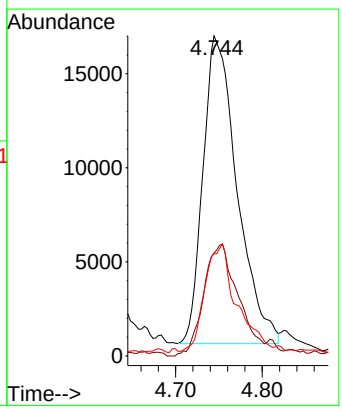
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

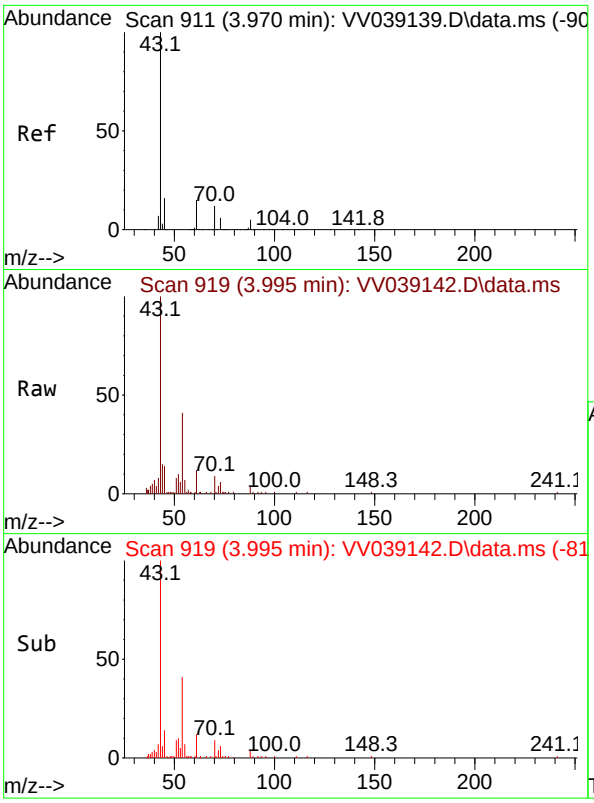



#36
1,1-Dichloropropene
Concen: 4.379 ug/l
RT: 4.744 min Scan# 1152
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 75 Resp: 44786

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 36.8 | 18.1 | 54.1 |
| 77 | 32.0 | 24.8 | 37.2 |

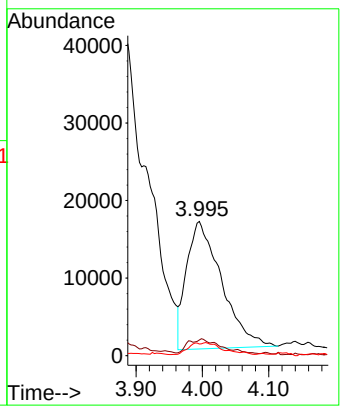





#37
Ethyl Acetate
Concen: 4.805 ug/l
RT: 3.995 min Scan# 9
Delta R.T. 0.025 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 43 Resp: 6028

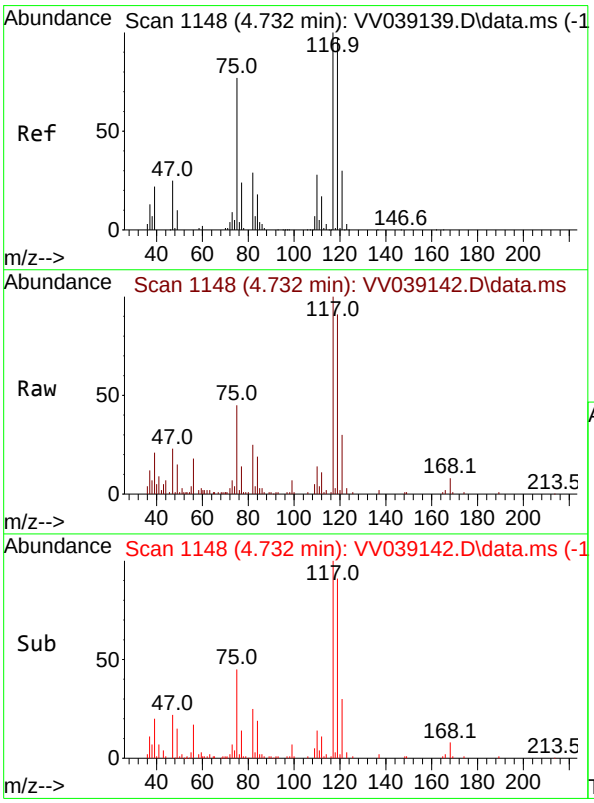
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 0.0 | 10.3 | 15.5# |
| 70 | 3.0 | 8.0 | 12.0# |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

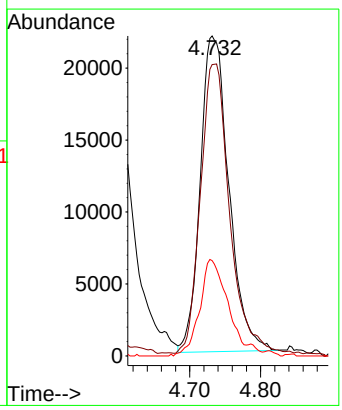
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

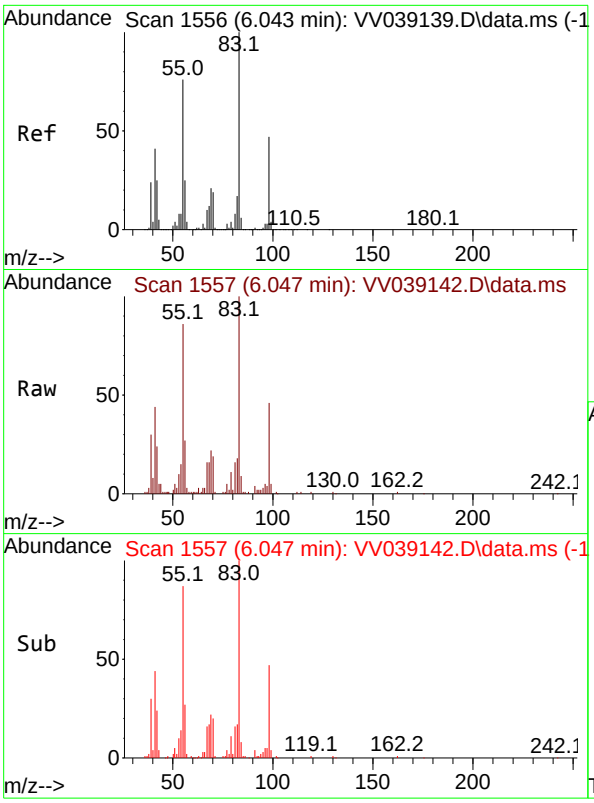



#38
Carbon Tetrachloride
Concen: 4.992 ug/l
RT: 4.732 min Scan# 1148
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:117 Resp: 61498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 91.1 | 77.2 | 115.8 |
| 121 | 29.8 | 24.2 | 36.2 |






#39
Methylcyclohexane
Concen: 4.633 ug/l
RT: 6.047 min Scan# 1
Delta R.T. 0.004 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

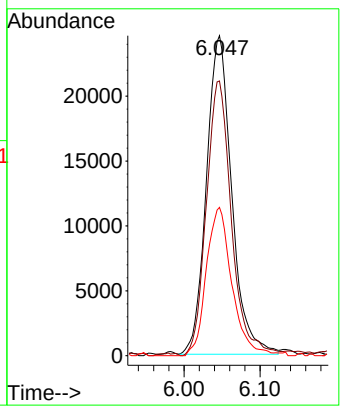
Tgt Ion: 83 Resp: 5680

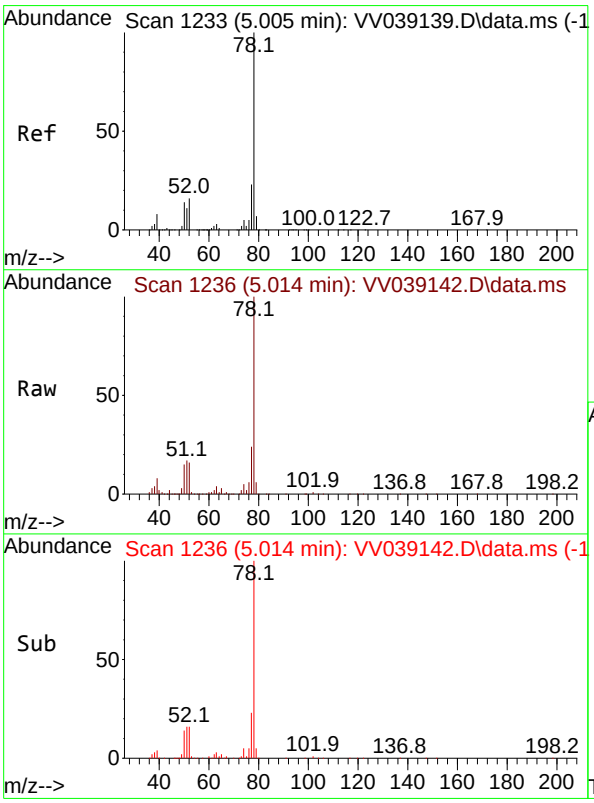
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 85.8 | 60.5 | 90.7 |
| 98 | 46.6 | 37.8 | 56.6 |

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

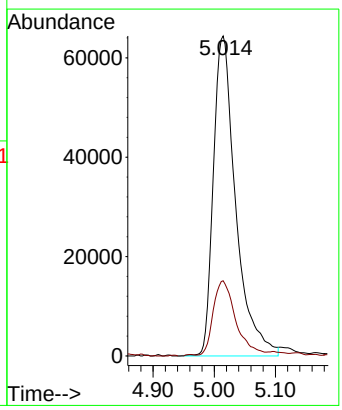


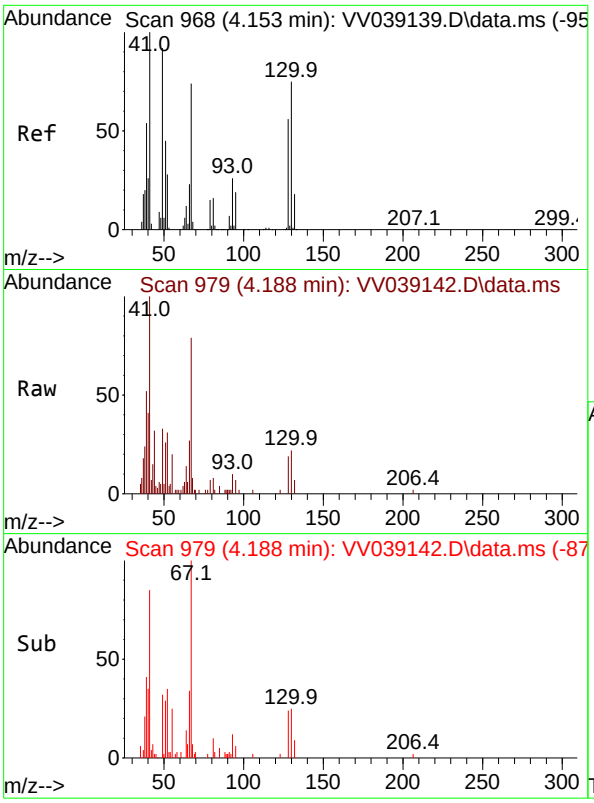




#40
Benzene
Concen: 4.959 ug/l
RT: 5.014 min Scan# 1236
Delta R.T. 0.009 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 78 Resp: 163948

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.5 | 18.7 | 28.1 |

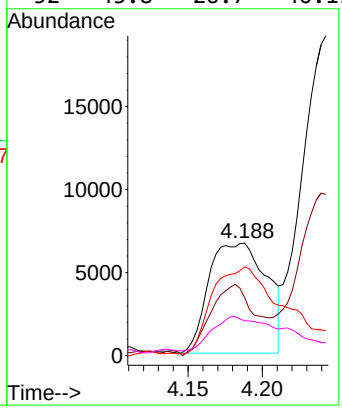





#41
Methacrylonitrile
Concen: 4.995 ug/l
RT: 4.188 min Scan# 9
Delta R.T. 0.035 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 41 Resp: 1795

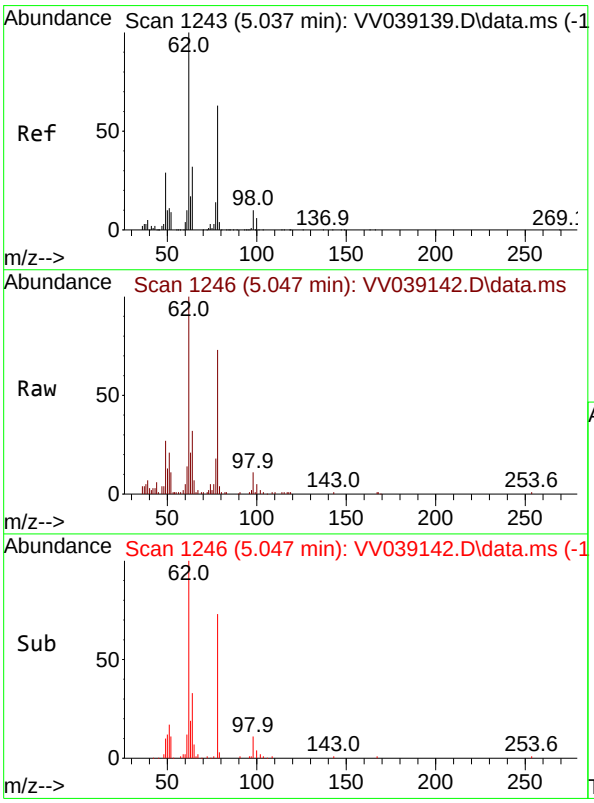
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 50.3 | 42.2 | 63.2 |
| 67 | 102.2 | 67.9 | 101.9# |
| 52 | 43.8 | 26.7 | 40.1# |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

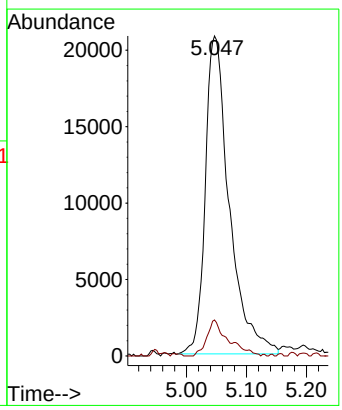
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

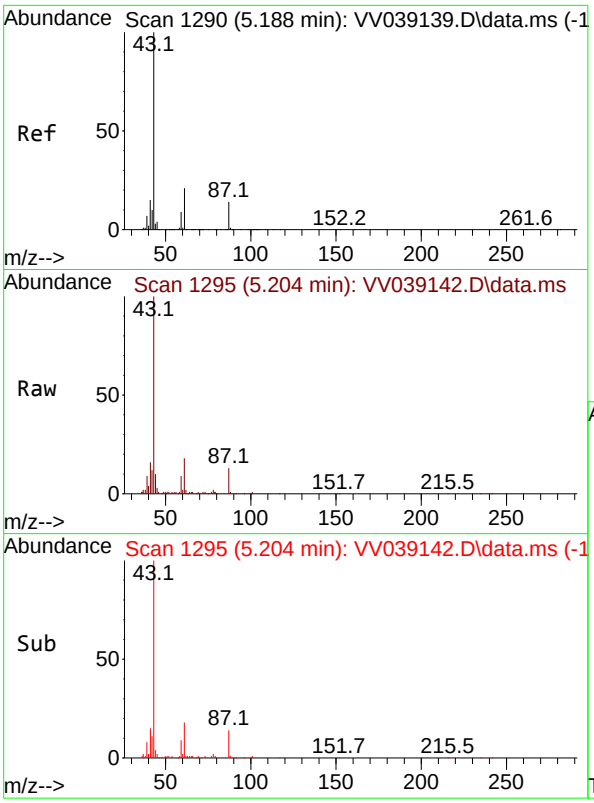



#42
1,2-Dichloroethane
Concen: 4.994 ug/l
RT: 5.047 min Scan# 1246
Delta R.T. 0.010 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 62 Resp: 57857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 8.0 | 0.0 | 19.2 |

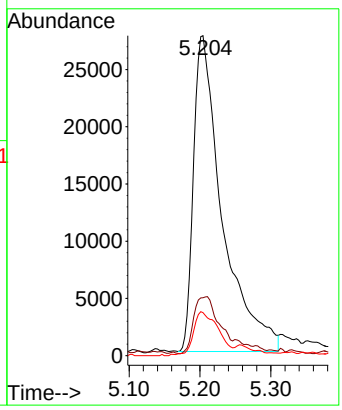





#43
Isopropyl Acetate
Concen: 4.509 ug/l
RT: 5.204 min Scan# 1
Delta R.T. 0.016 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 43 Resp: 7793

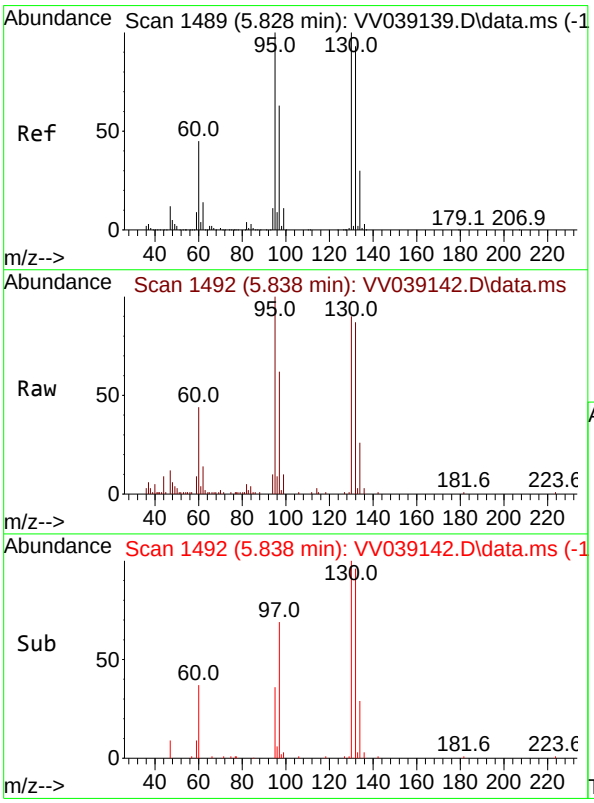
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 15.9 | 15.9 | 23.9# |
| 87 | 12.0 | 11.0 | 16.6 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

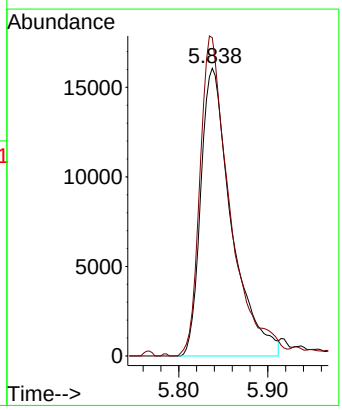
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

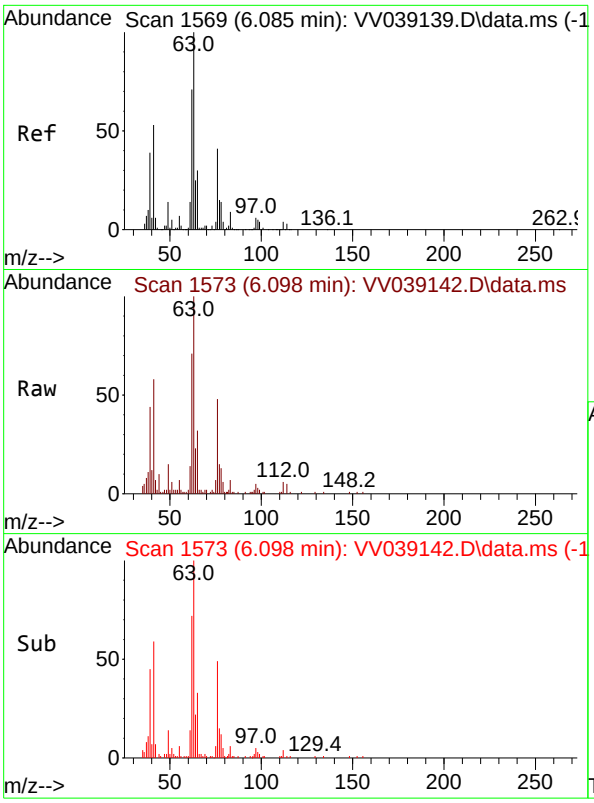



#44
Trichloroethene
Concen: 5.033 ug/l
RT: 5.838 min Scan# 1492
Delta R.T. 0.010 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:130 Resp: 38395

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 110.6 | 0.0 | 199.2 |

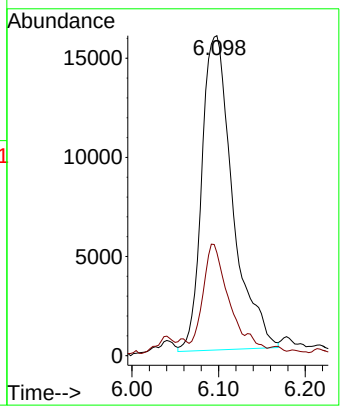





#45
1,2-Dichloropropane
Concen: 4.786 ug/l
RT: 6.098 min Scan# 1
Delta R.T. 0.013 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 63 Resp: 3932

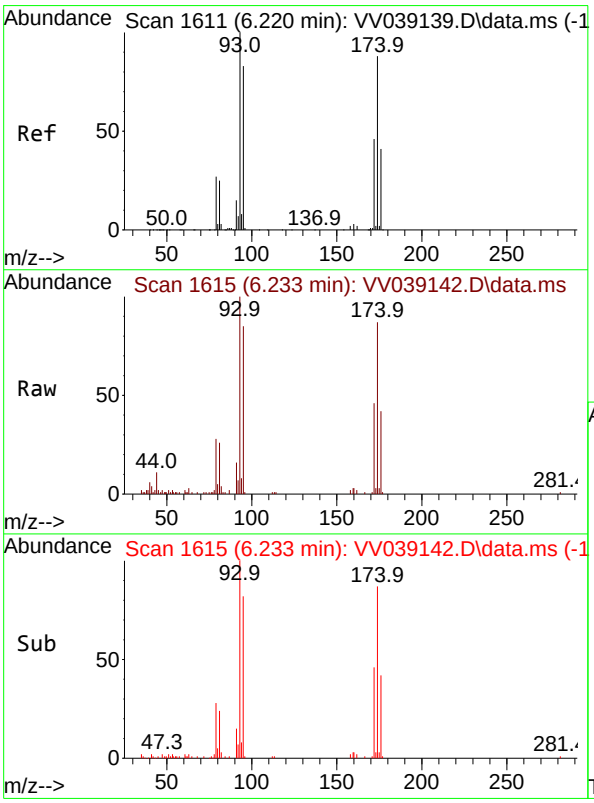
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 29.6 | 23.7 | 35.5 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

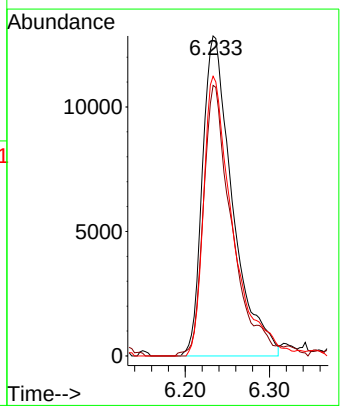
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

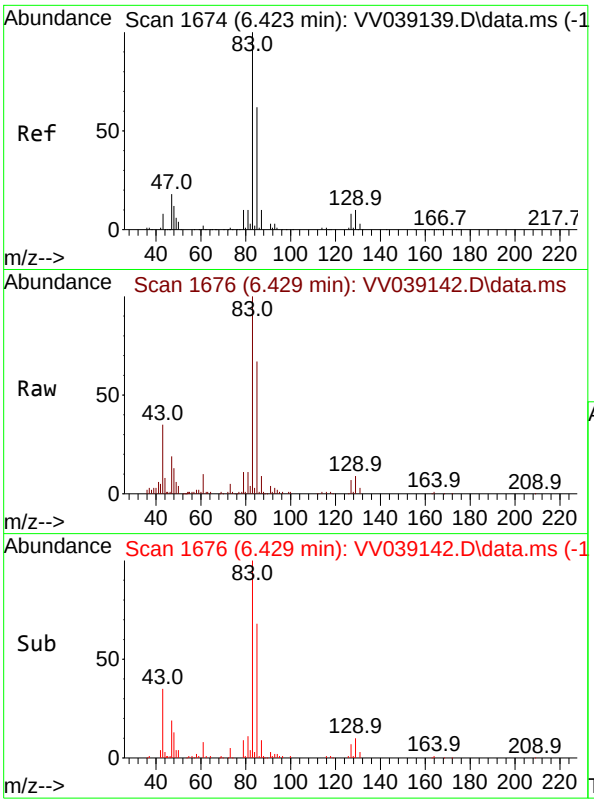



#46
Dibromomethane
Concen: 5.066 ug/l
RT: 6.233 min Scan# 1615
Delta R.T. 0.013 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 93 Resp: 31863

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 80.2 | 65.5 | 98.3 |
| 174 | 84.5 | 69.0 | 103.4 |

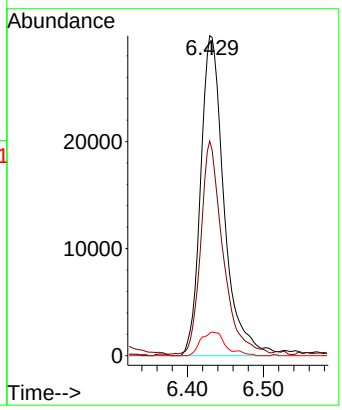





#47
Bromodichloromethane
Concen: 4.925 ug/l
RT: 6.429 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 83 Resp: 6403

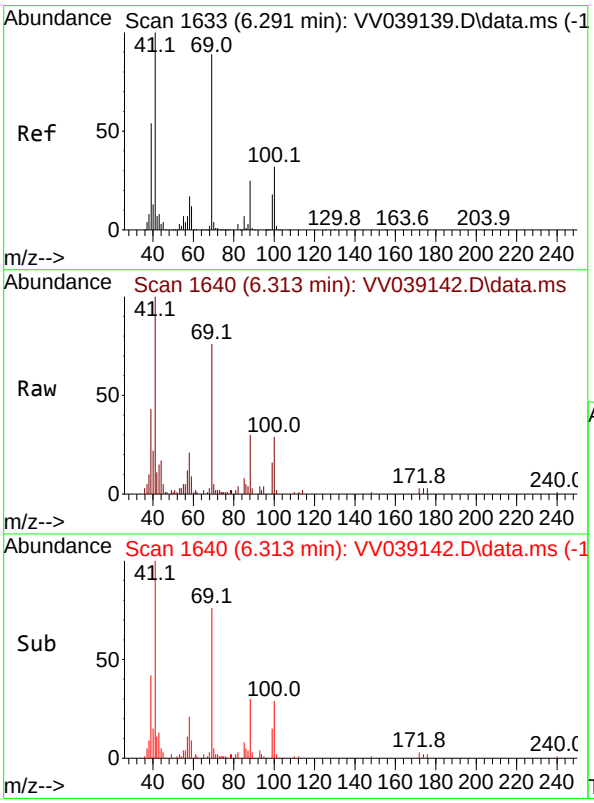
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 66.5 | 49.7 | 74.5 |
| 127 | 7.1 | 6.6 | 9.8 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

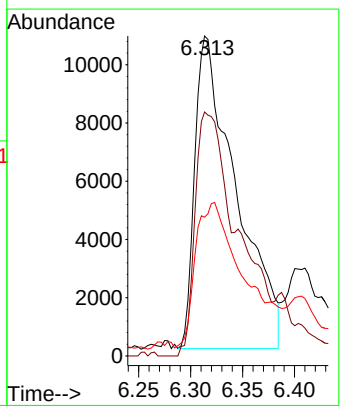
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

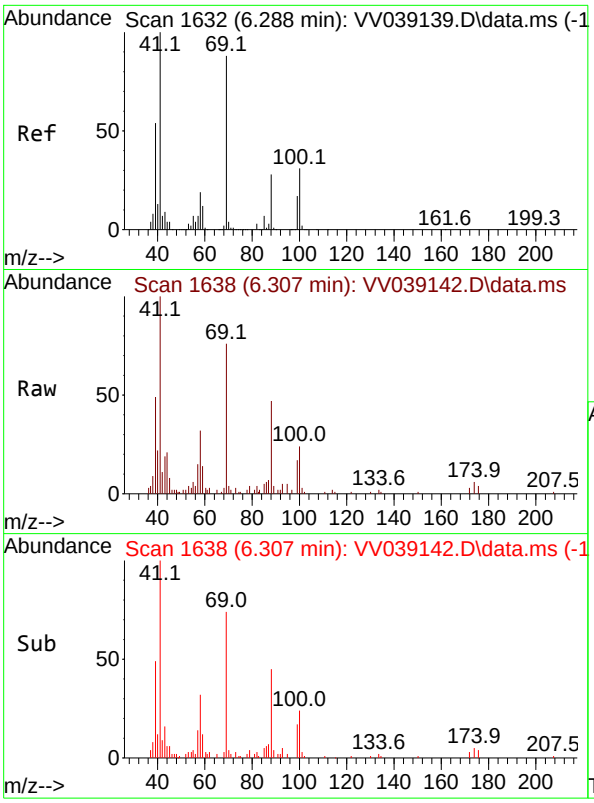



#48
Methyl methacrylate
Concen: 3.757 ug/l
RT: 6.313 min Scan# 1640
Delta R.T. 0.022 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 41 Resp: 29705

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 81.4 | 72.4 | 108.6 |
| 39 | 54.4 | 42.5 | 63.7 |

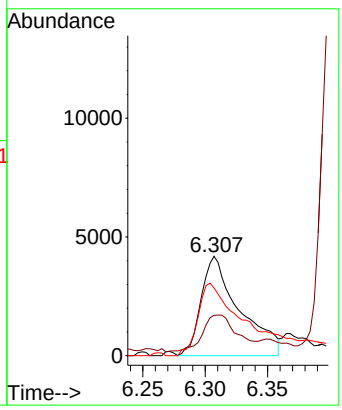





#49
1,4-Dioxane
Concen: 72.413 ug/l
RT: 6.307 min Scan# 1
Delta R.T. 0.019 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 88 Resp: 899

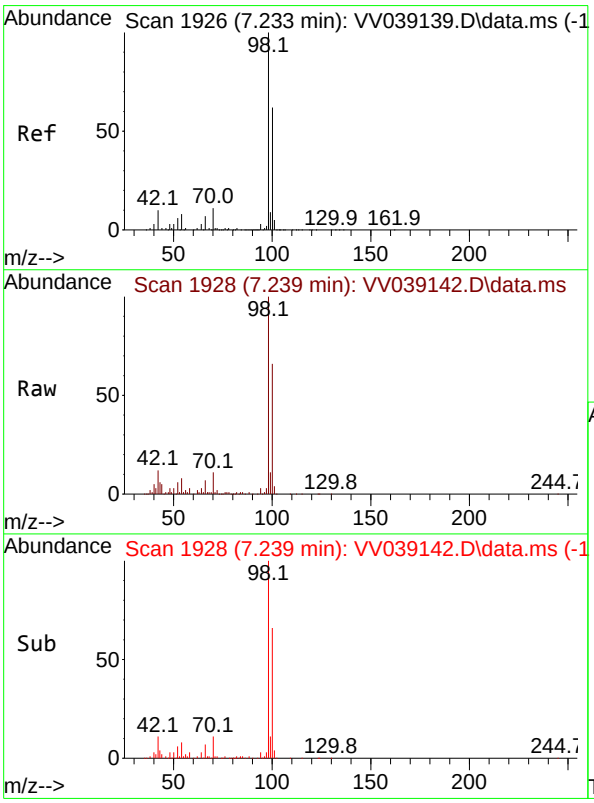
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 31.9 | 25.1 | 37.7 |
| 58 | 91.7 | 53.6 | 80.4 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

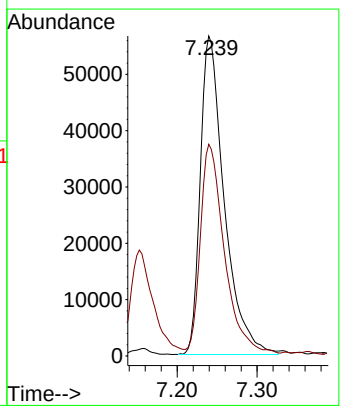
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

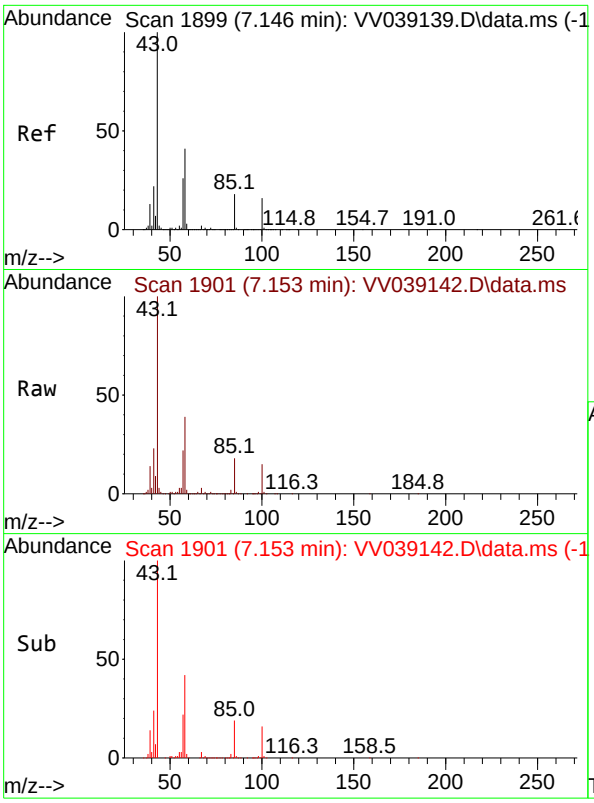



#50
Toluene-d8
Concen: 5.976 ug/l
RT: 7.239 min Scan# 1928
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 98 Resp: 117860

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.0 | 52.2 | 78.2 |

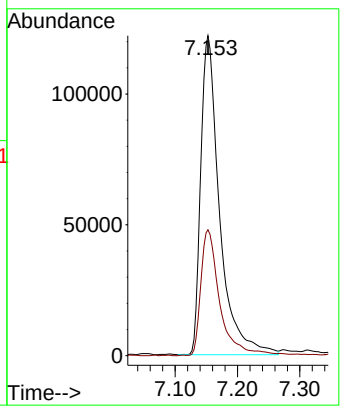





#51
4-Methyl-2-Pentanone
Concen: 23.155 ug/l
RT: 7.153 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 43 Resp: 25588

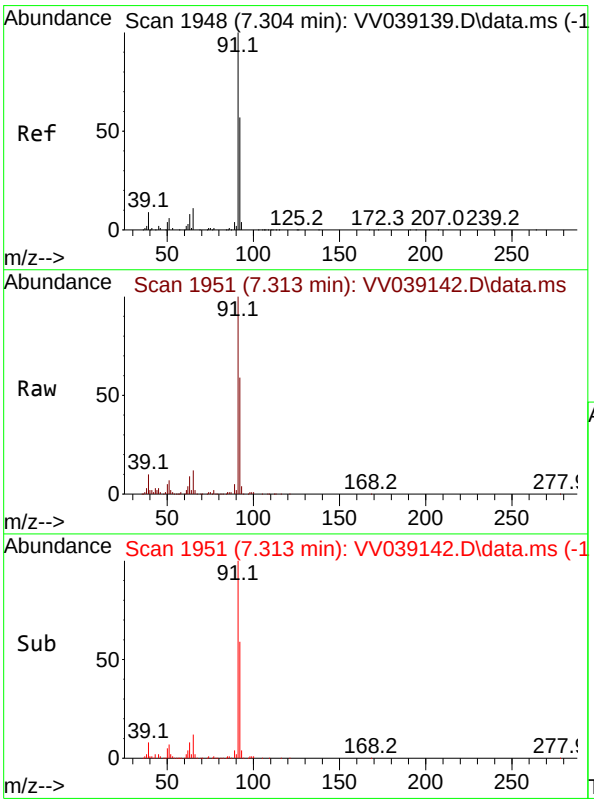
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 39.6 | 32.3 | 48.5 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

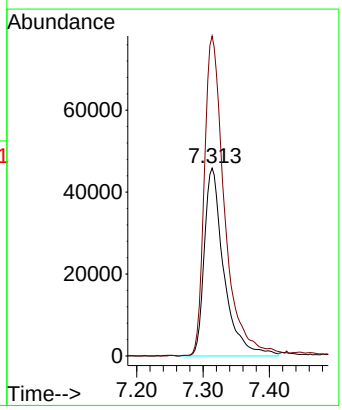
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

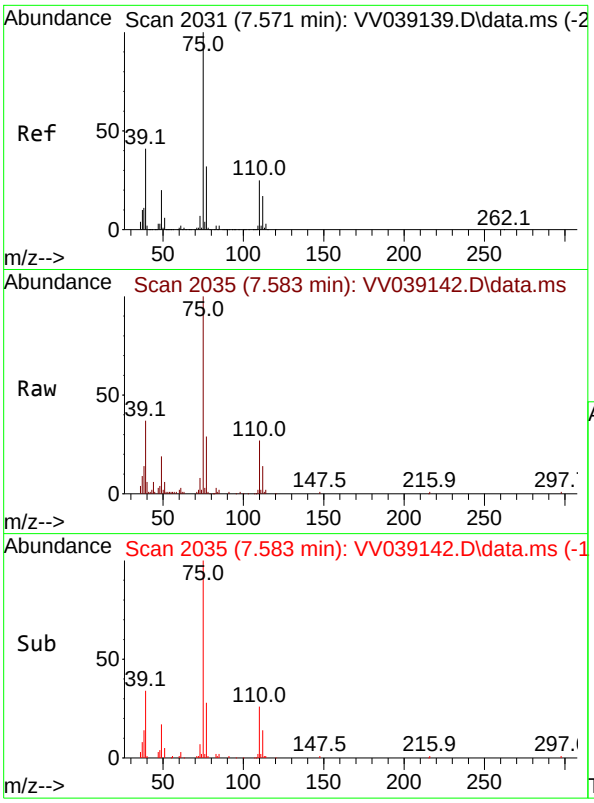



#52
Toluene
Concen: 4.925 ug/l
RT: 7.313 min Scan# 1951
Delta R.T. 0.009 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 92 Resp: 94414

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 175.4 | 139.2 | 208.8 |

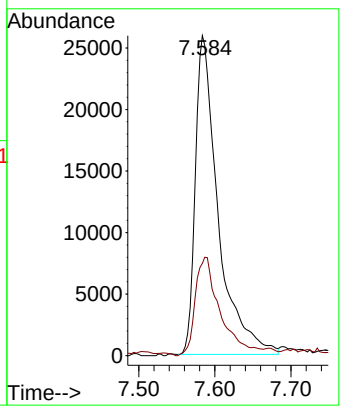





#53
t-1,3-Dichloropropene
Concen: 4.755 ug/l
RT: 7.583 min Scan# 2
Delta R.T. 0.013 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 75 Resp: 5387

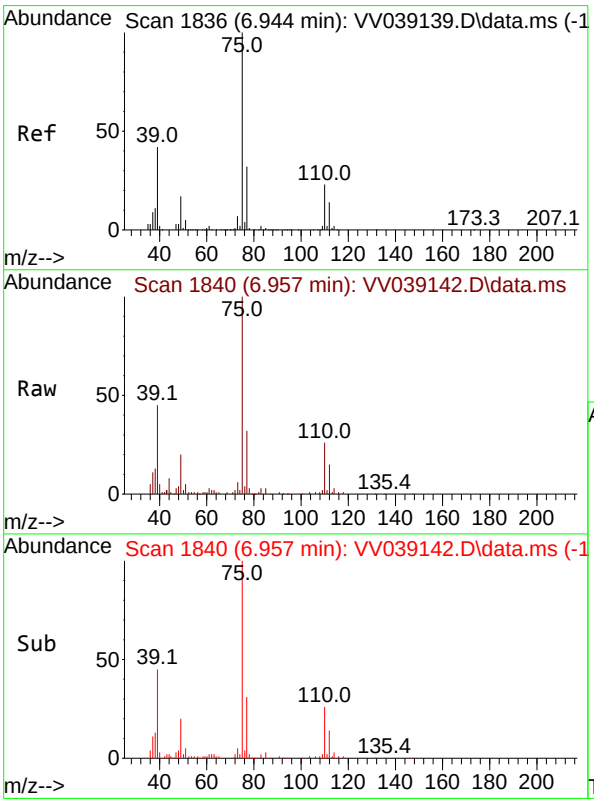
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 29.0 | 25.9 | 38.9 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

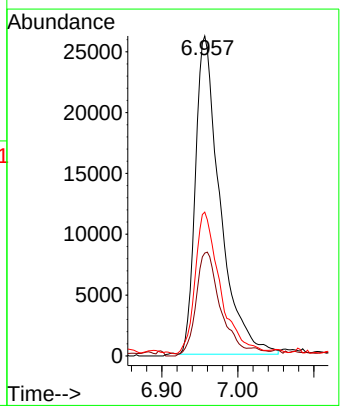
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

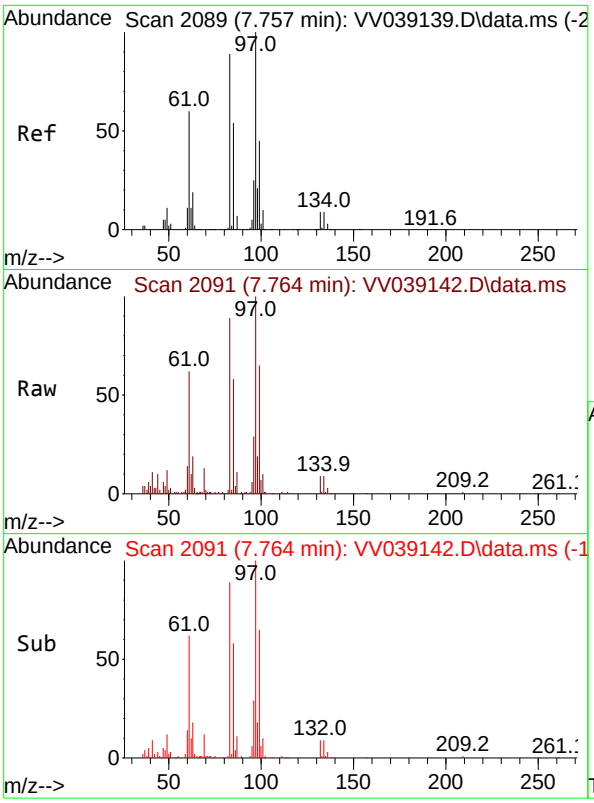



#54
cis-1,3-Dichloropropene
Concen: 4.700 ug/l
RT: 6.957 min Scan# 1840
Delta R.T. 0.013 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 75 Resp: 58800

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.9 | 25.5 | 38.3 |
| 39 | 44.3 | 33.8 | 50.6 |

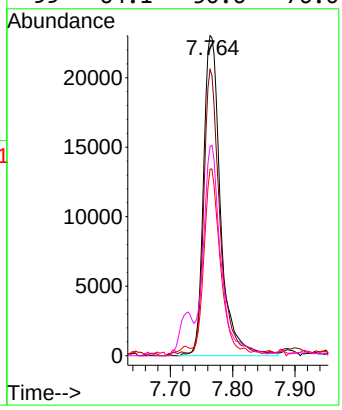





#55
1,1,2-Trichloroethane
Concen: 5.094 ug/l
RT: 7.764 min Scan# 2
Delta R.T. 0.007 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 97 Resp: 4378

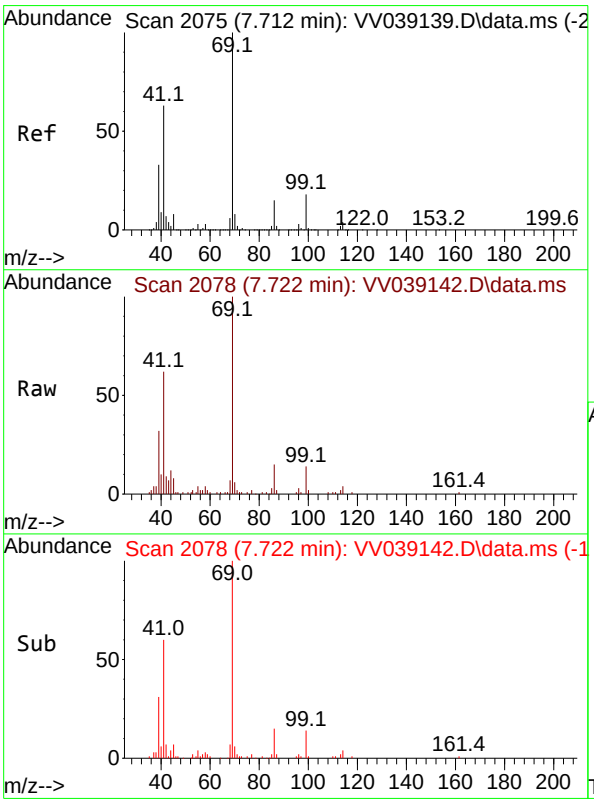
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 88.7 | 71.1 | 106.7 |
| 85 | 57.1 | 44.6 | 67.0 |
| 99 | 64.1 | 50.6 | 76.0 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

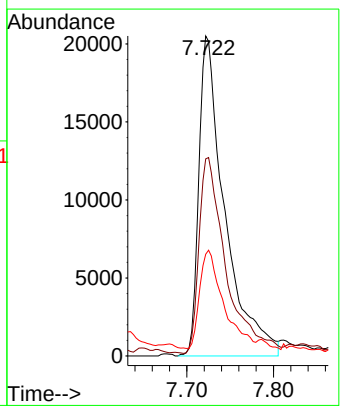
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

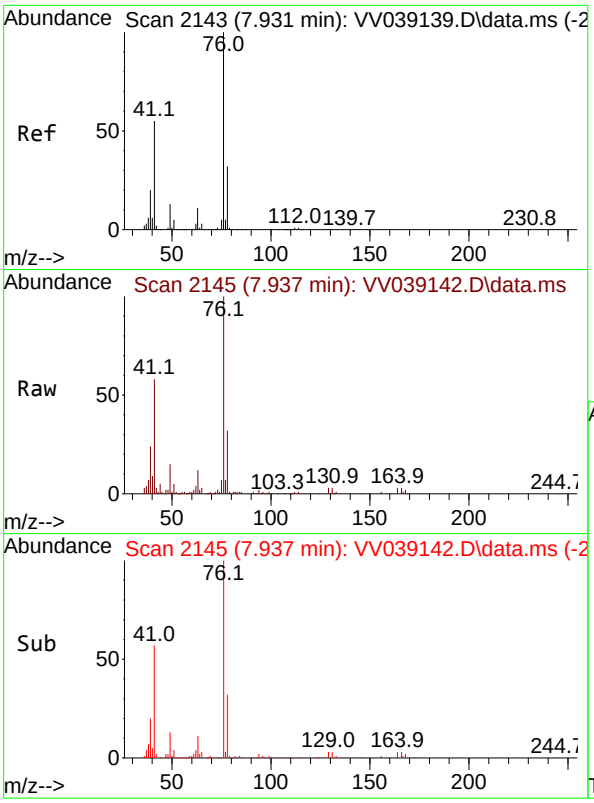



#56
Ethyl methacrylate
Concen: 4.173 ug/l
RT: 7.722 min Scan# 2078
Delta R.T. 0.010 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 69 Resp: 42598

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 63.6 | 50.7 | 76.1 |
| 39 | 28.1 | 26.0 | 39.0 |

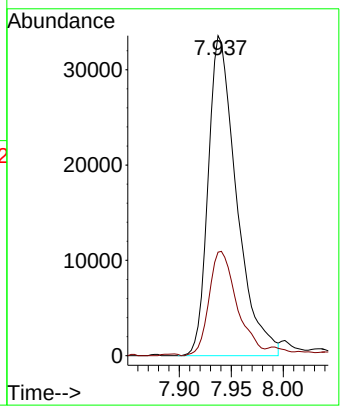





#57
1,3-Dichloropropane
Concen: 4.705 ug/l
RT: 7.937 min Scan# 2
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 76 Resp: 6381

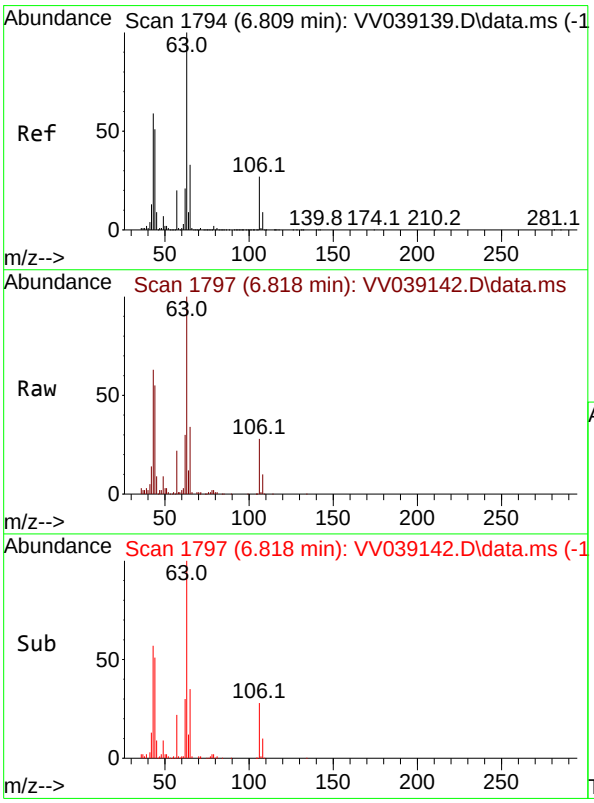
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.1 | 26.1 | 39.1 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

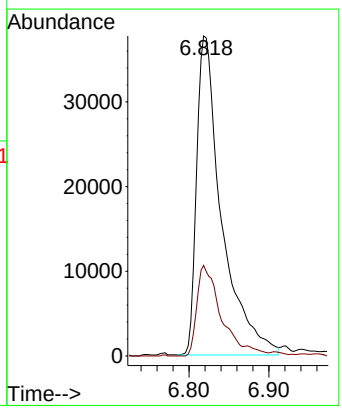
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

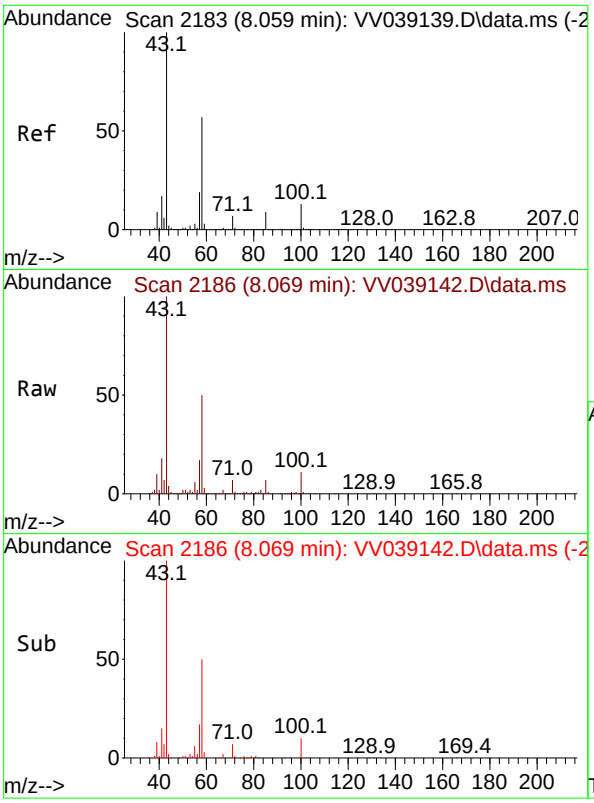



#58
2-Chloroethyl Vinyl ether
Concen: 23.077 ug/l
RT: 6.818 min Scan# 1797
Delta R.T. 0.009 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 63 Resp: 81984

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 27.7 | 22.1 | 33.1 |






#59
2-Hexanone
Concen: 22.071 ug/l
RT: 8.069 min Scan# 2
Delta R.T. 0.010 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

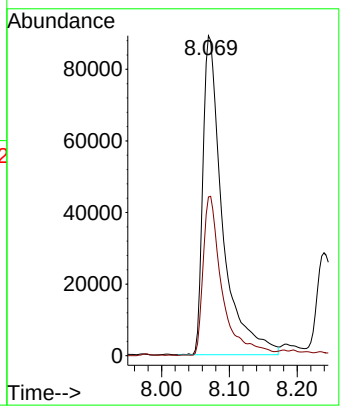
Tgt Ion: 43 Resp: 17918

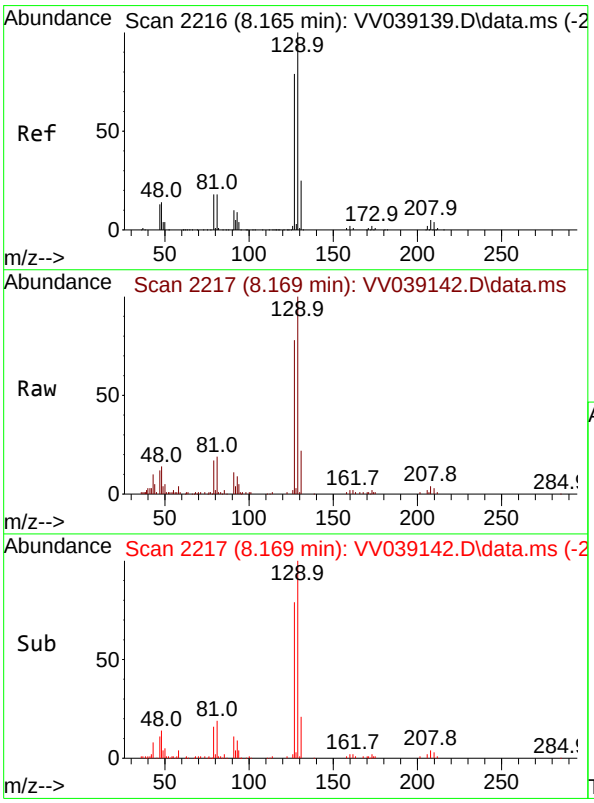
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 48.1 | 28.3 | 85.0 |

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

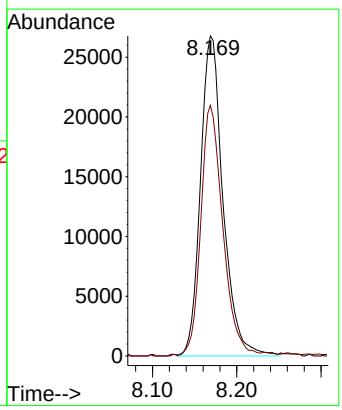


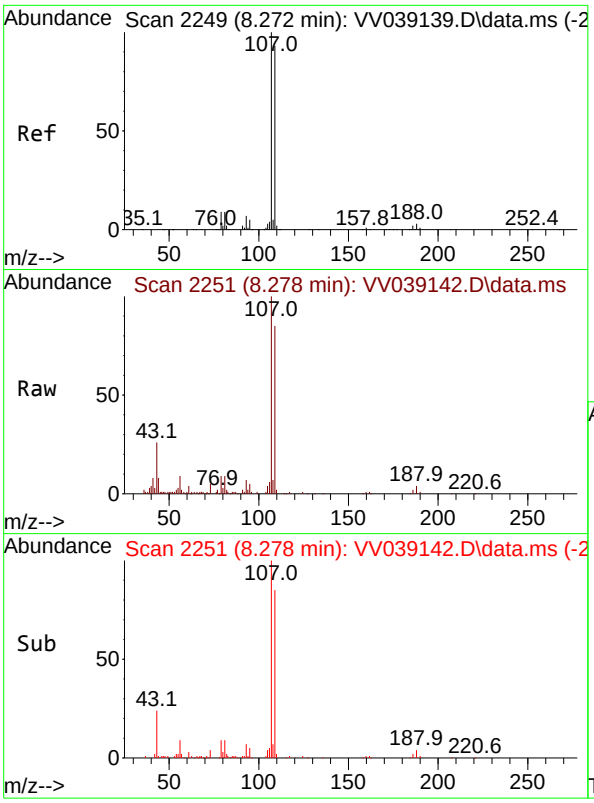




#60
Dibromochloromethane
Concen: 5.100 ug/l
RT: 8.169 min Scan# 2217
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:129 Resp: 49953

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 74.8 | 39.3 | 117.9 |






#61
1,2-Dibromoethane
Concen: 5.088 ug/l
RT: 8.278 min Scan# 2
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

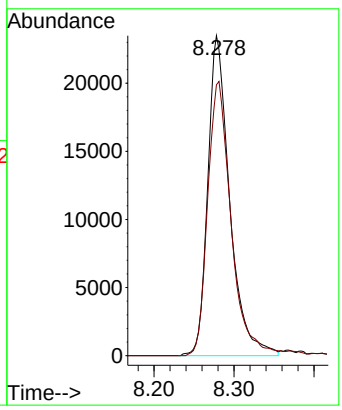
Tgt Ion:107 Resp: 4472

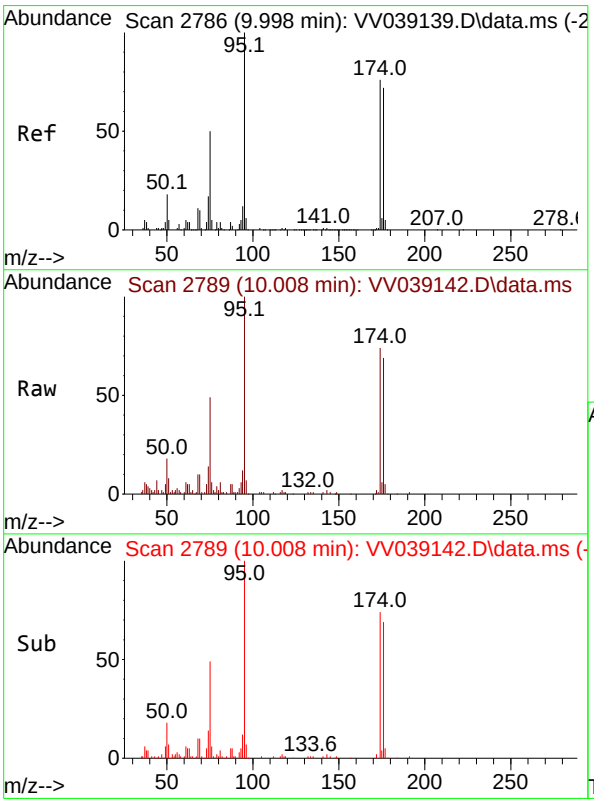
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 91.4 | 74.6 | 112.0 |

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

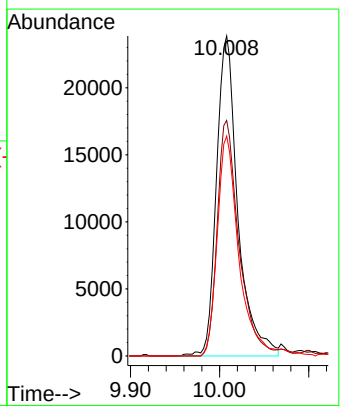


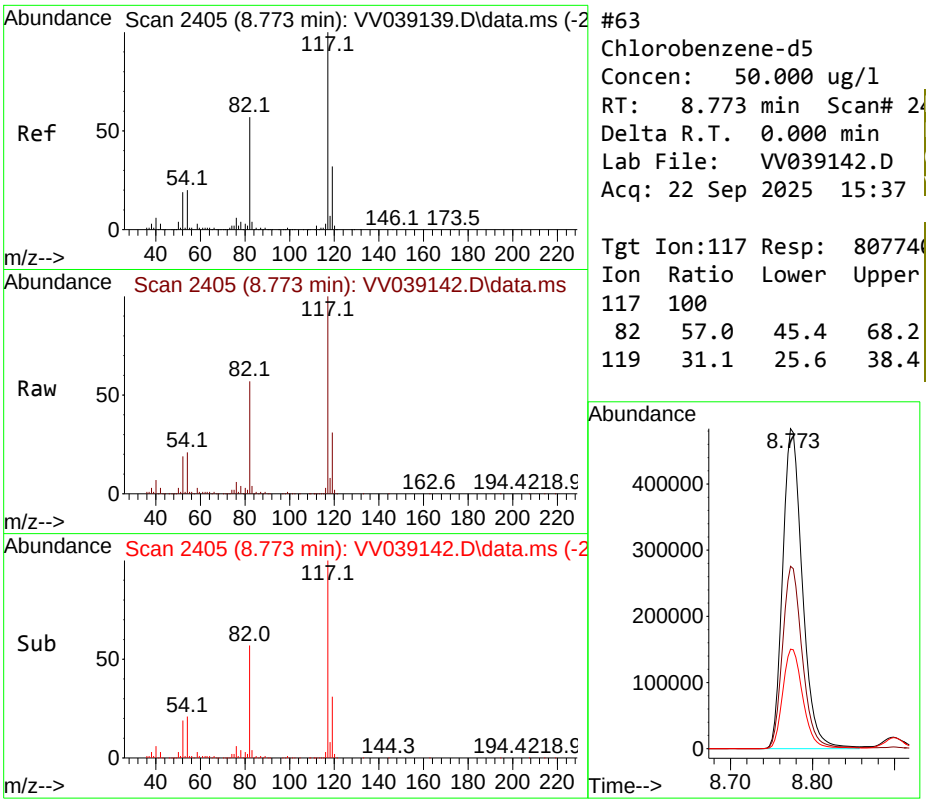




#62
4-Bromofluorobenzene
Concen: 4.904 ug/l
RT: 10.008 min Scan# 2789
Delta R.T. 0.010 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 95 Resp: 39819

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 74.3 | 0.0 | 150.4 |
| 176 | 70.3 | 0.0 | 144.2 |






#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.773 min Scan# 24
Delta R.T. 0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:117 Resp: 80774

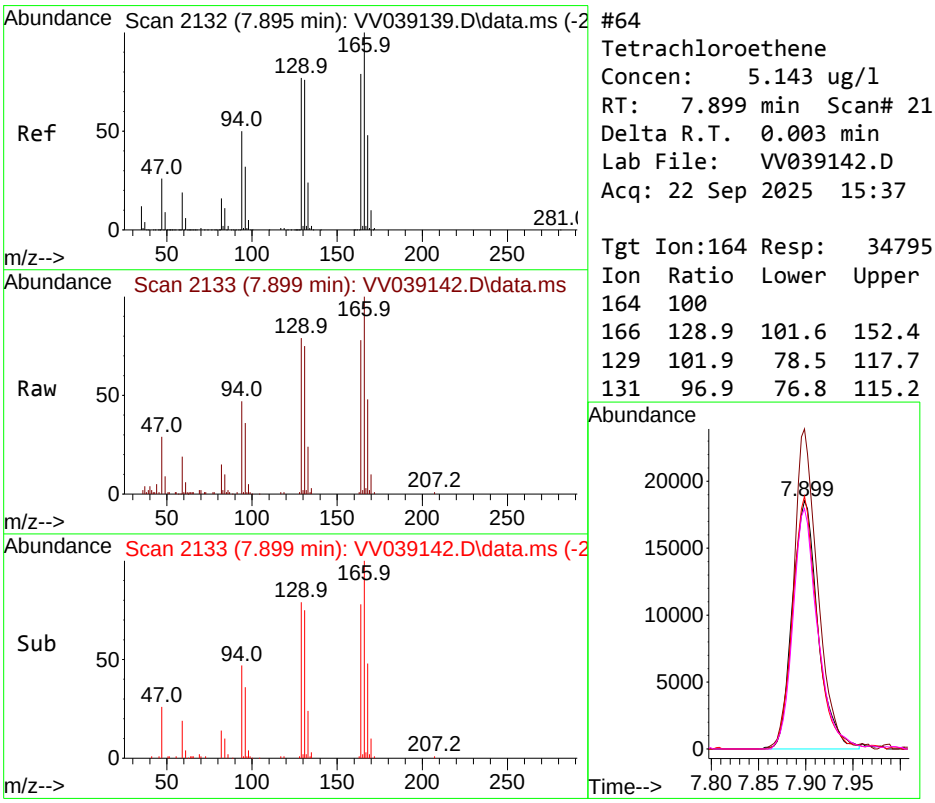
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.0 | 45.4 | 68.2 |
| 119 | 31.1 | 25.6 | 38.4 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

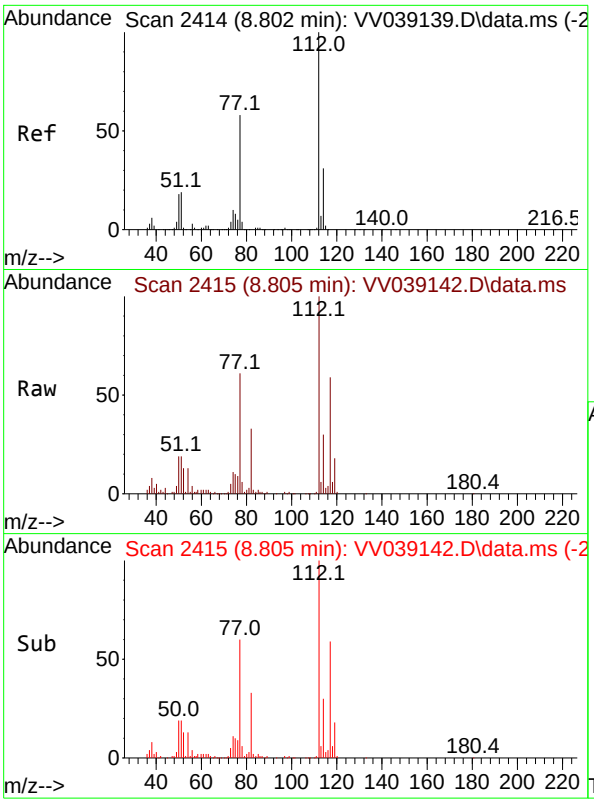
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025




#64
Tetrachloroethene
Concen: 5.143 ug/l
RT: 7.899 min Scan# 2133
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:164 Resp: 34795

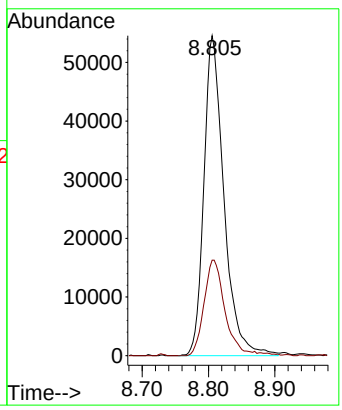
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 128.9 | 101.6 | 152.4 |
| 129 | 101.9 | 78.5 | 117.7 |
| 131 | 96.9 | 76.8 | 115.2 |




#65
Chlorobenzene
Concen: 5.086 ug/l
RT: 8.805 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:112 Resp: 11442

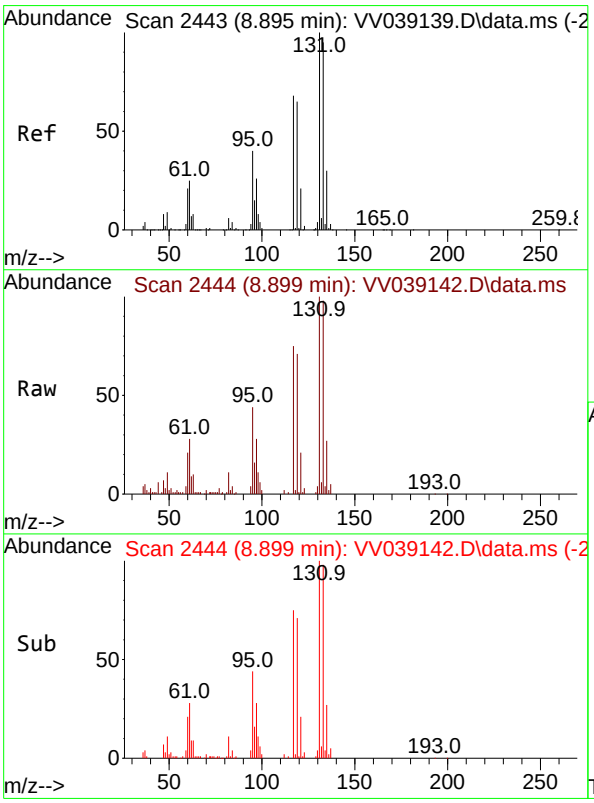
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 29.8 | 24.6 | 37.0 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

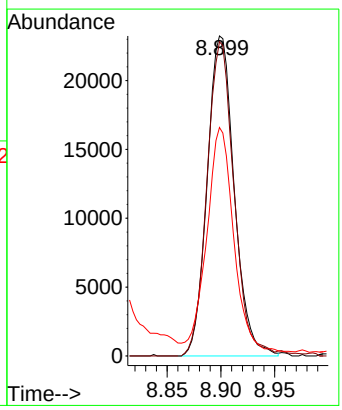
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

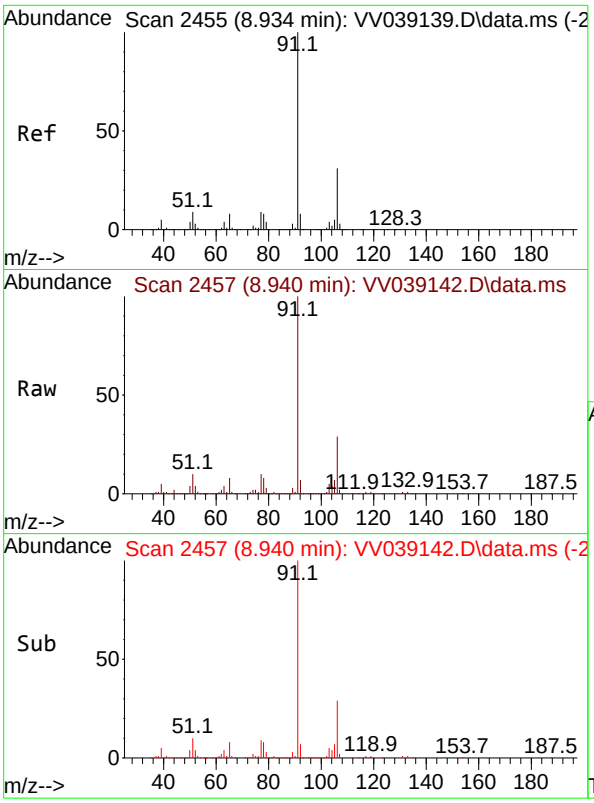



#66
1,1,1,2-Tetrachloroethane
Concen: 5.005 ug/l
RT: 8.899 min Scan# 2444
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:131 Resp: 40690

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 98.7 | 47.3 | 141.8 |
| 119 | 70.6 | 33.3 | 99.8 |

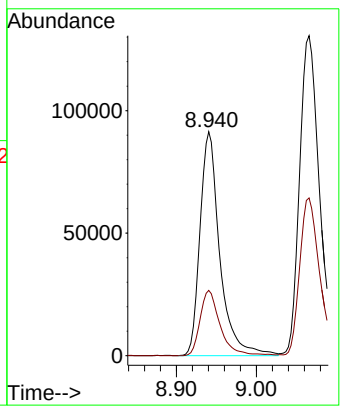





#67
Ethyl Benzene
Concen: 4.633 ug/l
RT: 8.940 min Scan# 24
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 91 Resp: 15779

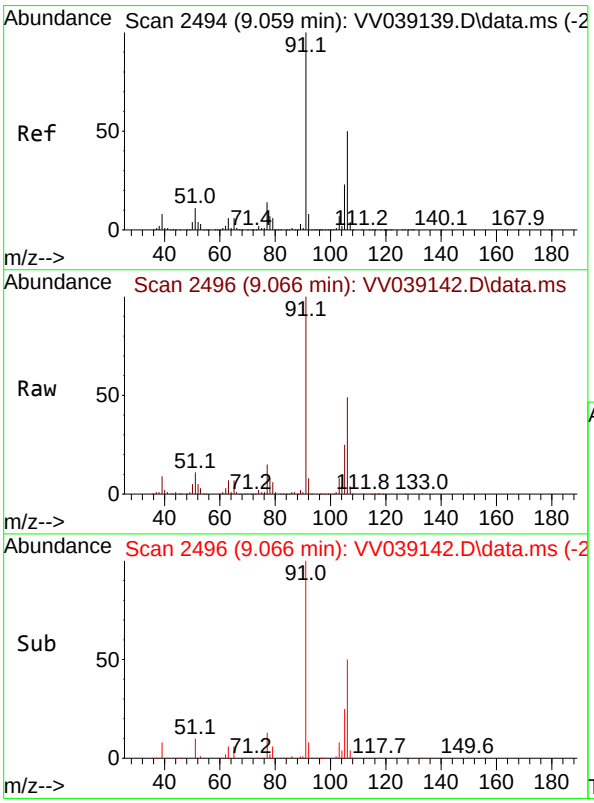
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.1 | 24.6 | 37.0 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

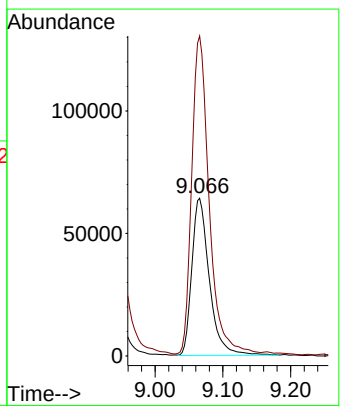
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

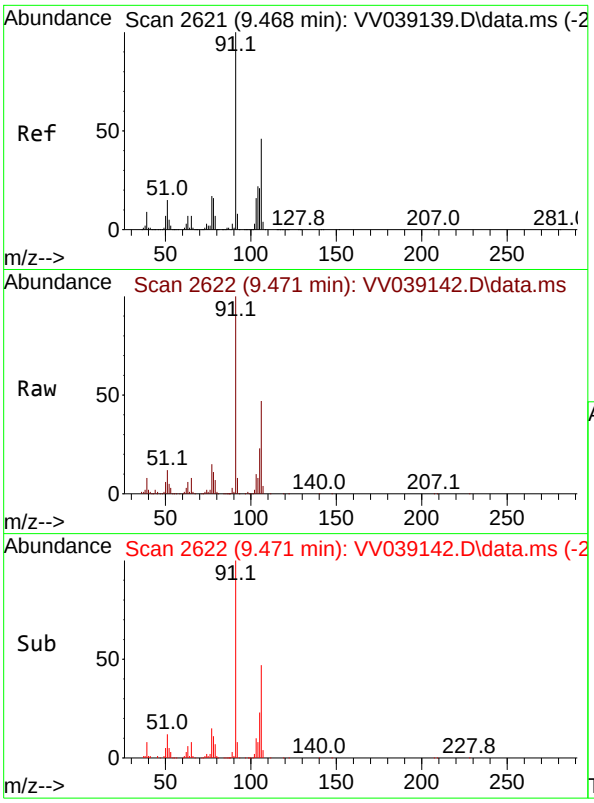



#68
m/p-Xylenes
Concen: 8.762 ug/l
RT: 9.066 min Scan# 2496
Delta R.T. 0.007 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:106 Resp: 115177

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 200.3 | 162.5 | 243.7 |






#69
o-Xylene
Concen: 4.406 ug/l
RT: 9.471 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

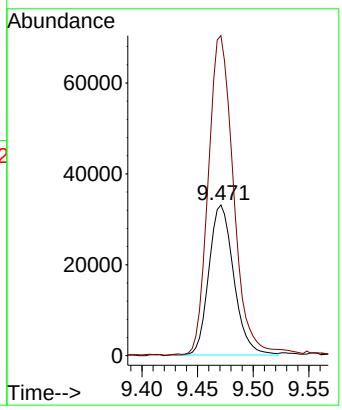
Tgt Ion:106 Resp: 5128

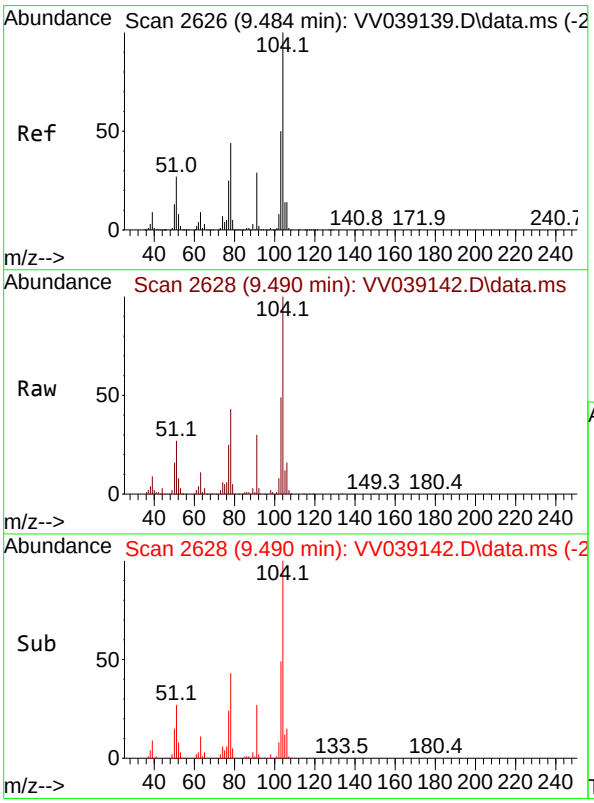
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 218.4 | 109.1 | 327.3 |

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

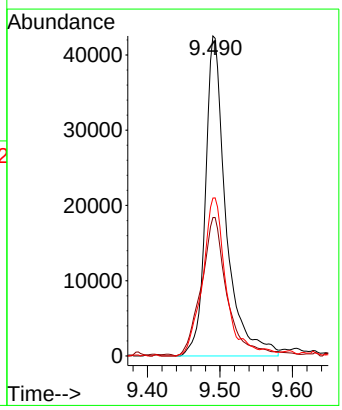


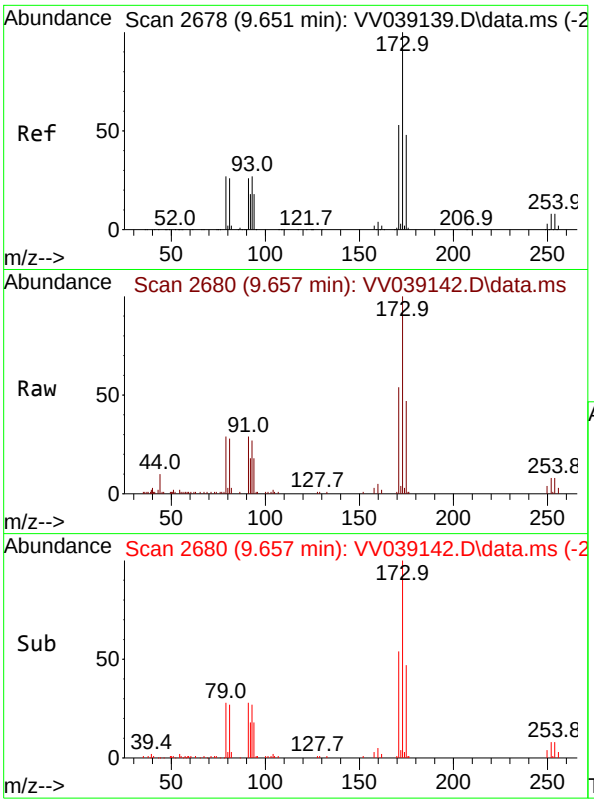




#70
Styrene
Concen: 4.836 ug/l
RT: 9.490 min Scan# 2628
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:104 Resp: 83873

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 53.9 | 39.8 | 59.6 |
| 103 | 55.8 | 43.4 | 65.2 |

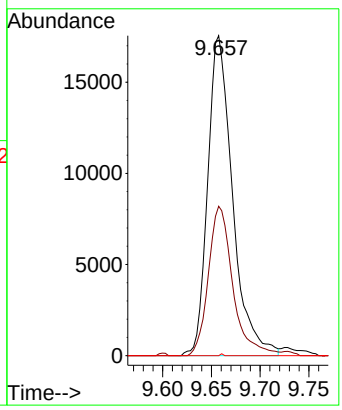





#71
Bromoform
Concen: 4.903 ug/l
RT: 9.657 min Scan# 2
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:173 Resp: 3113

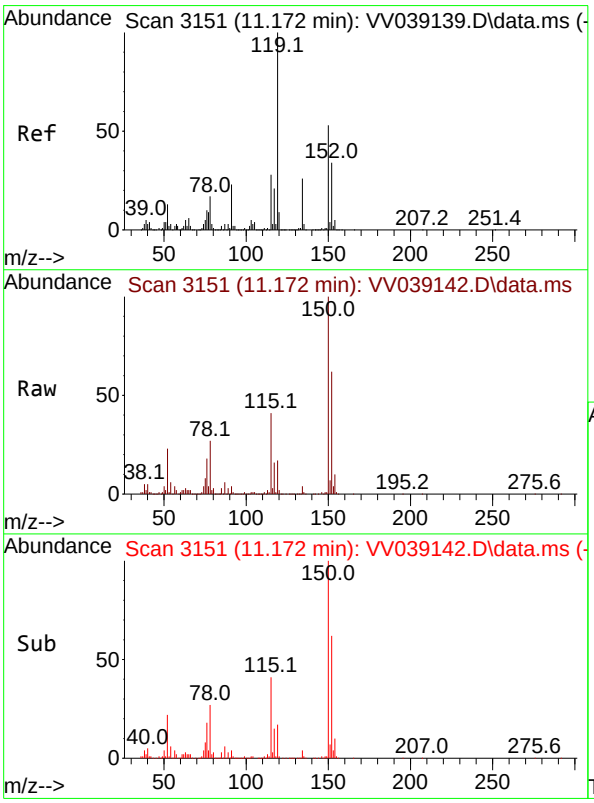
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 46.0 | 23.9 | 71.7 |
| 254 | 0.1 | 0.1 | 0.1 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

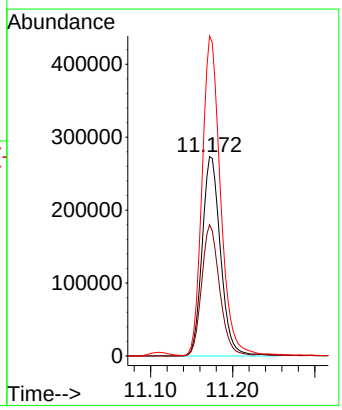
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

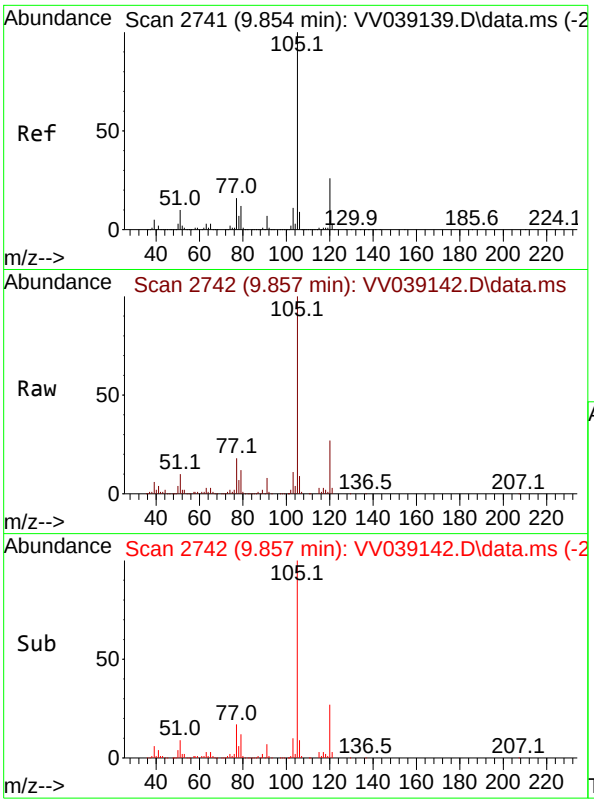



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:152 Resp: 425480

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 64.2 | 44.8 | 134.4 |
| 150 | 160.0 | 0.0 | 353.8 |

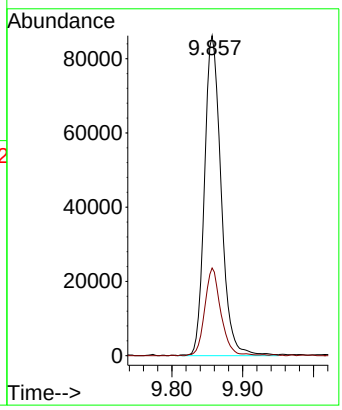





#73
Isopropylbenzene
Concen: 4.545 ug/l
RT: 9.857 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:105 Resp: 14025

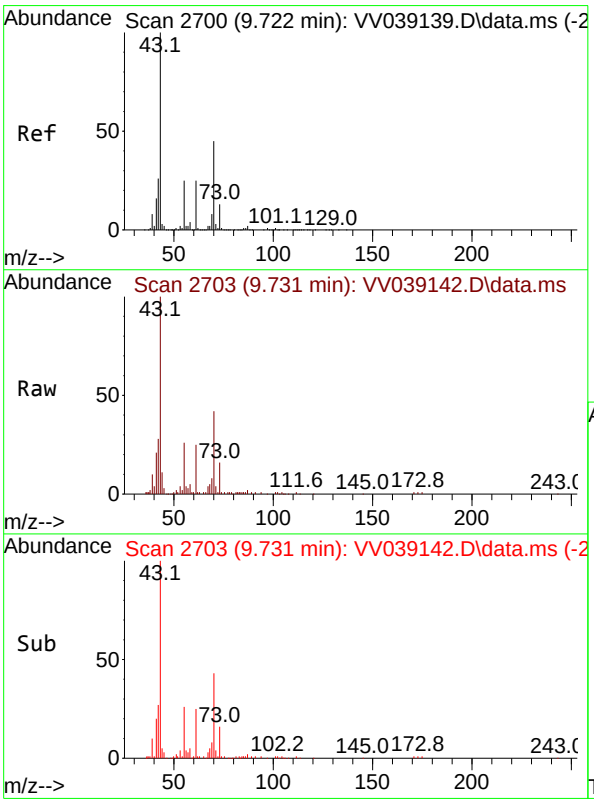
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.6 | 13.1 | 39.1 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

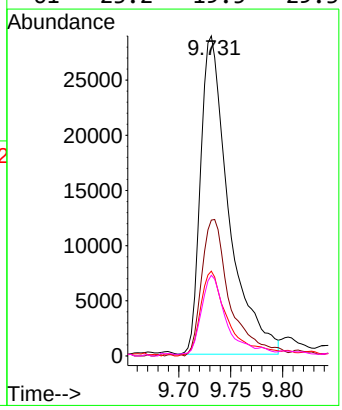
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

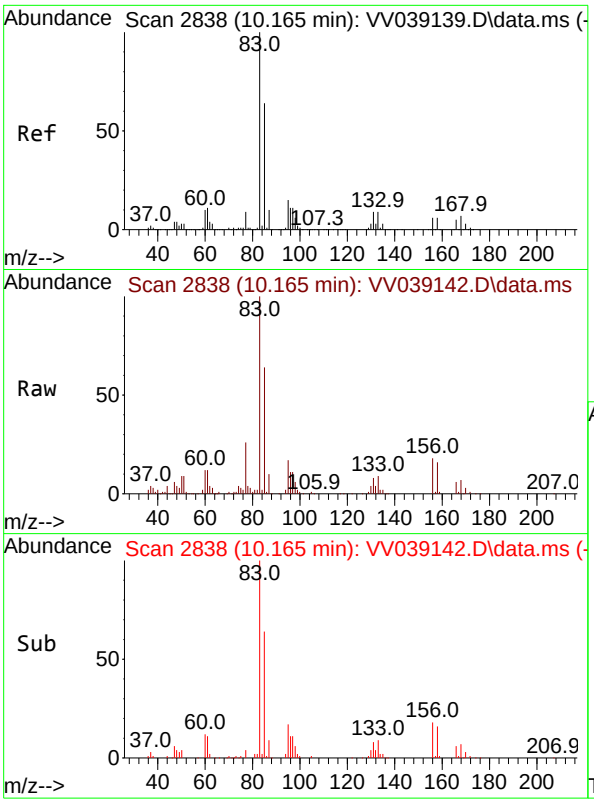



#74
N-amyl acetate
Concen: 4.422 ug/l
RT: 9.731 min Scan# 2703
Delta R.T. 0.010 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 43 Resp: 54436

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 43.3 | 35.4 | 53.0 |
| 55 | 26.1 | 20.6 | 30.8 |
| 61 | 23.2 | 19.5 | 29.3 |

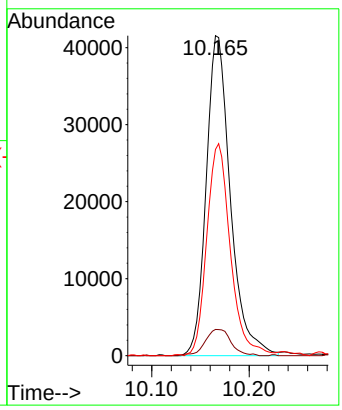





#75
1,1,2,2-Tetrachloroethane
Concen: 5.299 ug/l
RT: 10.165 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 83 Resp: 7165

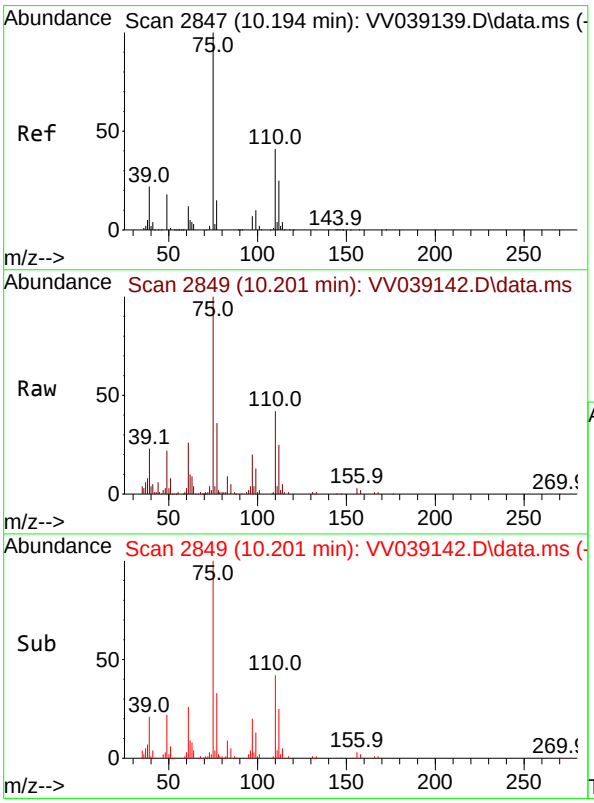
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 8.8 | 4.5 | 13.7 |
| 85 | 64.6 | 31.9 | 95.9 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

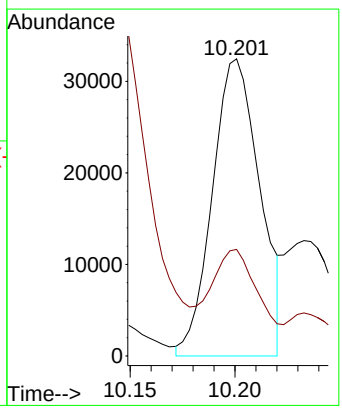
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

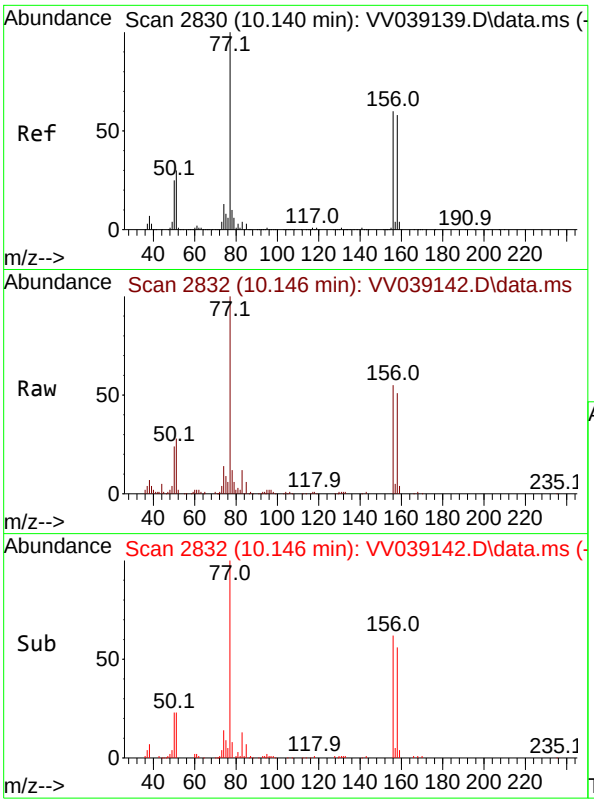



#76
1,2,3-Trichloropropane
Concen: 5.273 ug/l m
RT: 10.201 min Scan# 2849
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 75 Resp: 51079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 10.8 | 11.3 | 33.8# |

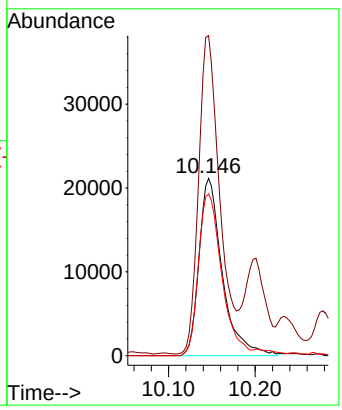





#77
Bromobenzene
Concen: 4.924 ug/l
RT: 10.146 min Scan# 2
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:156 Resp: 3942

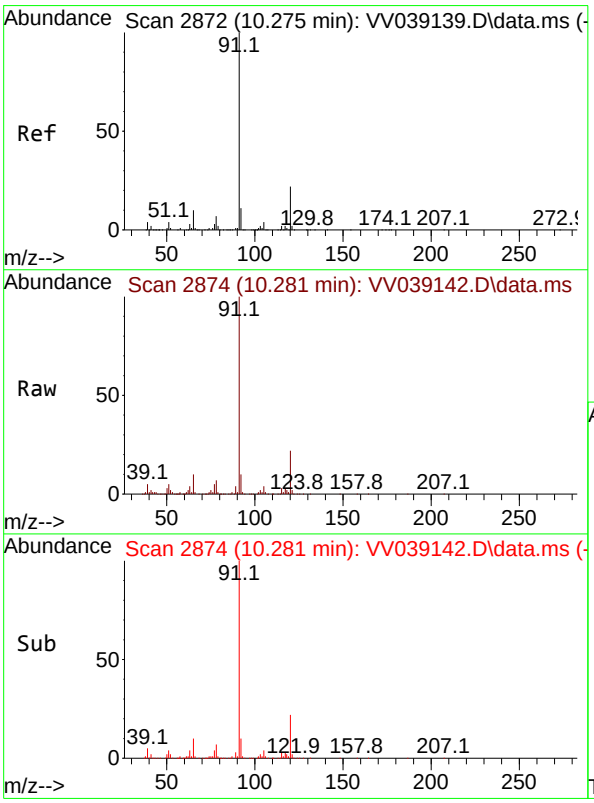
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 161.3 | 83.4 | 250.1 |
| 158 | 91.2 | 48.8 | 146.4 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

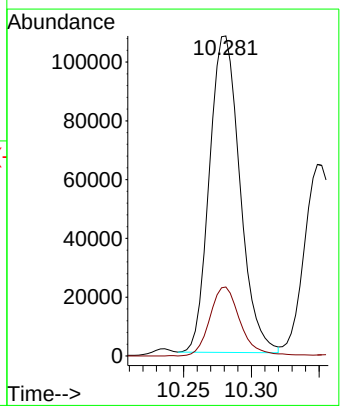
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

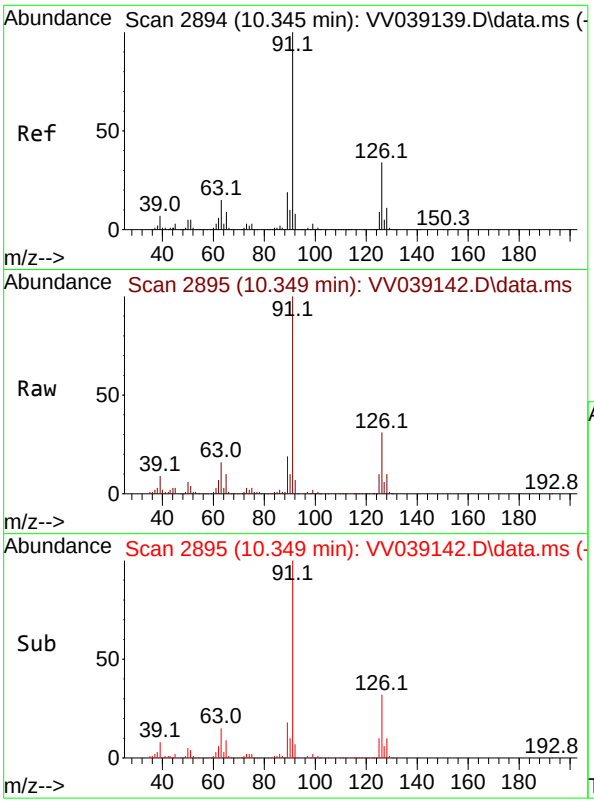



#78
n-propylbenzene
Concen: 4.492 ug/l
RT: 10.281 min Scan# 2874
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 91 Resp: 168794

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 21.9 | 11.1 | 33.3 |

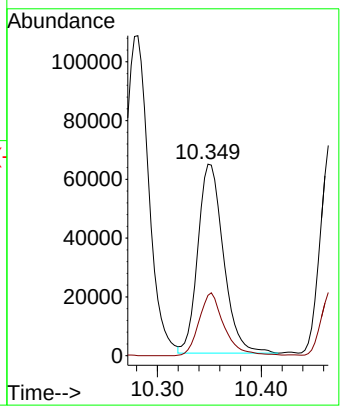





#79
2-Chlorotoluene
Concen: 4.892 ug/l
RT: 10.349 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 91 Resp: 11000

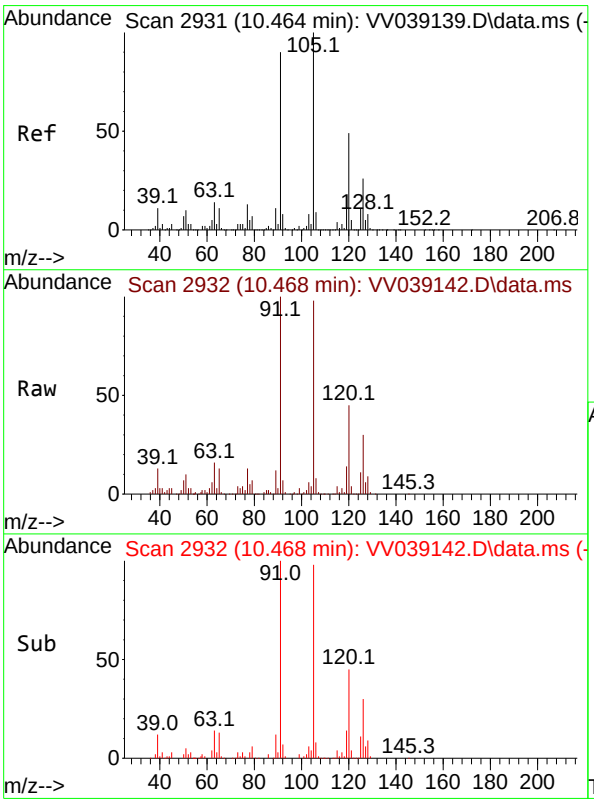
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.7 | 16.7 | 50.0 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

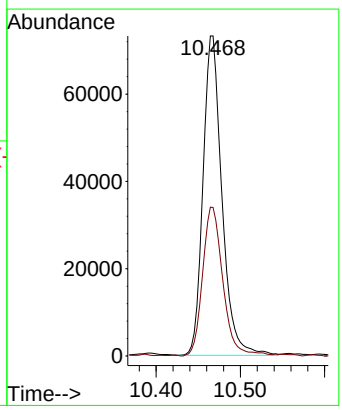
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

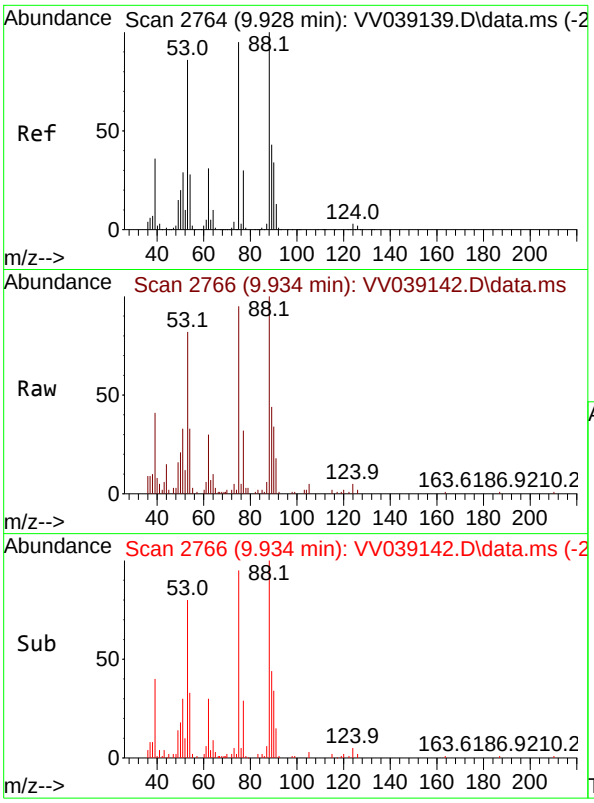



#80
1,3,5-Trimethylbenzene
Concen: 4.474 ug/l
RT: 10.468 min Scan# 2932
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:105 Resp: 114749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.8 | 24.3 | 72.8 |






#81
trans-1,4-Dichloro-2-butene
Concen: 4.499 ug/l
RT: 9.934 min Scan# 2
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

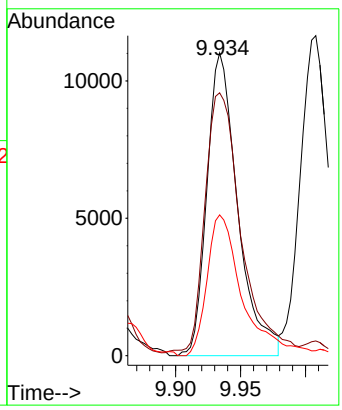
Tgt Ion: 75 Resp: 1815

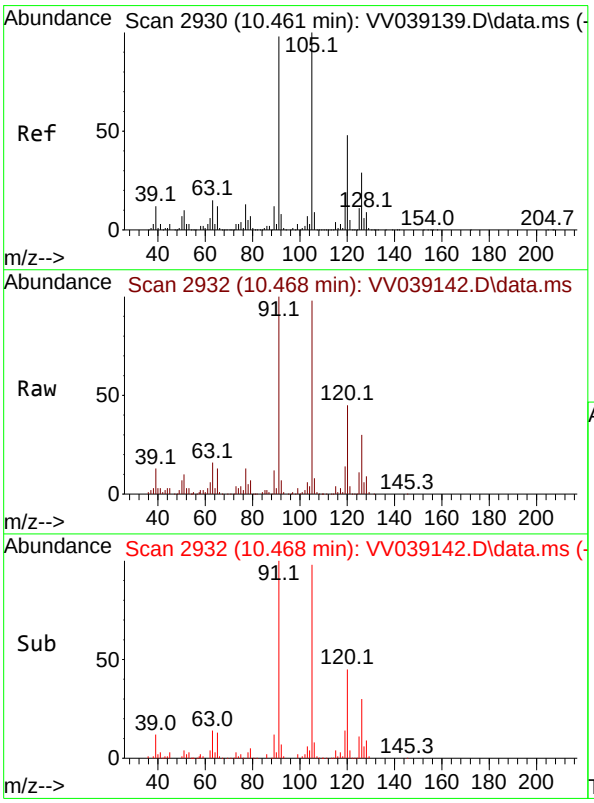
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 99.7 | 72.5 | 108.7 |
| 89 | 53.4 | 37.2 | 55.8 |

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

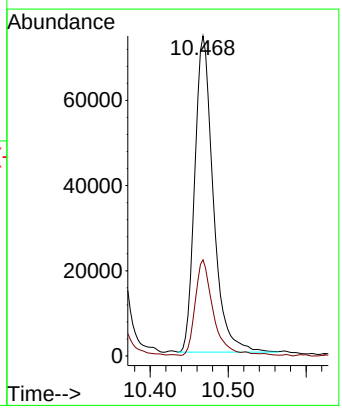


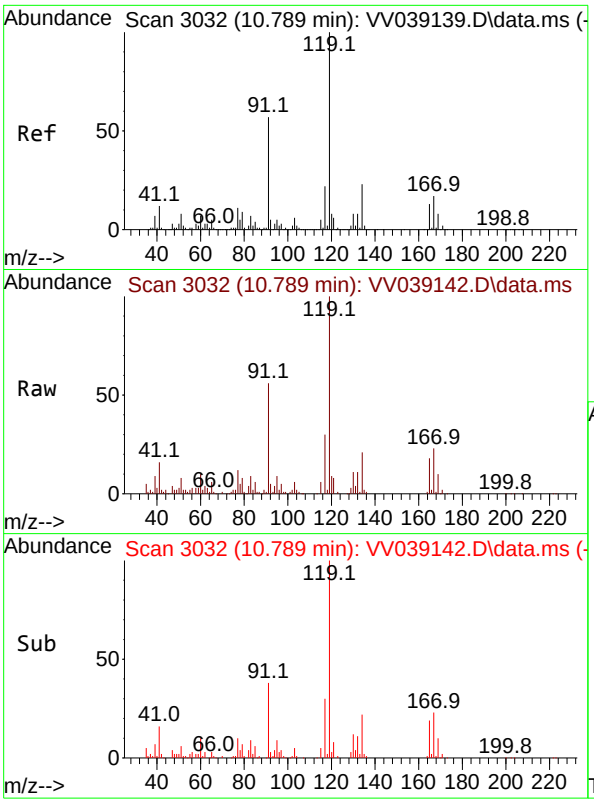




#82
4-Chlorotoluene
Concen: 4.695 ug/l
RT: 10.468 min Scan# 2932
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 91 Resp: 122429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 28.7 | 14.5 | 43.6 |

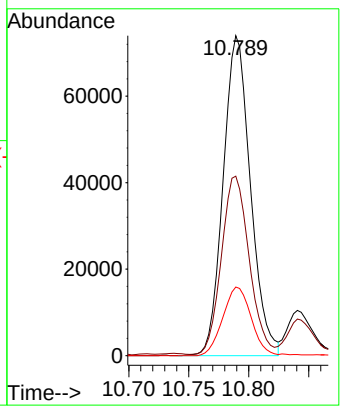





#83
tert-Butylbenzene
Concen: 4.586 ug/l
RT: 10.789 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:119 Resp: 11731

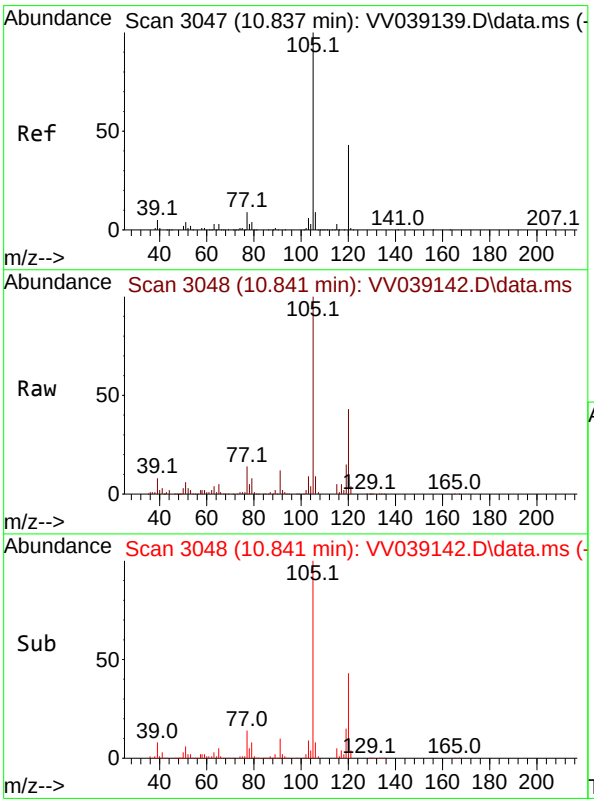
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 56.4 | 28.5 | 85.6 |
| 134 | 22.5 | 11.5 | 34.4 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

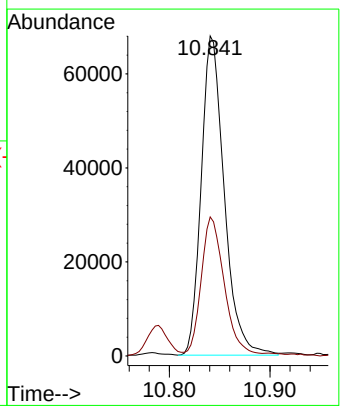
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

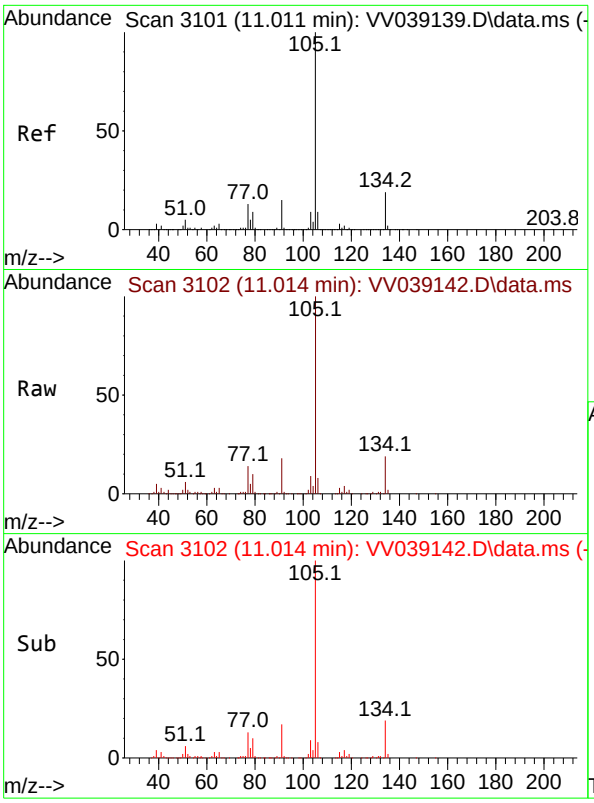



#84
1,2,4-Trimethylbenzene
Concen: 4.343 ug/l
RT: 10.841 min Scan# 3048
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:105 Resp: 108157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 42.0 | 22.4 | 67.2 |

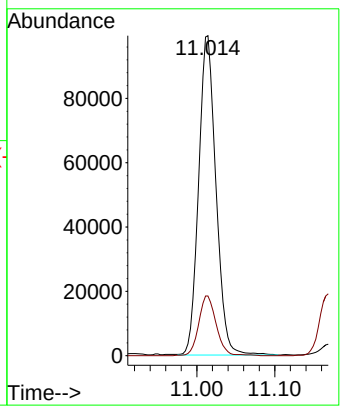





#85
sec-Butylbenzene
Concen: 4.525 ug/l
RT: 11.014 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:105 Resp: 15352

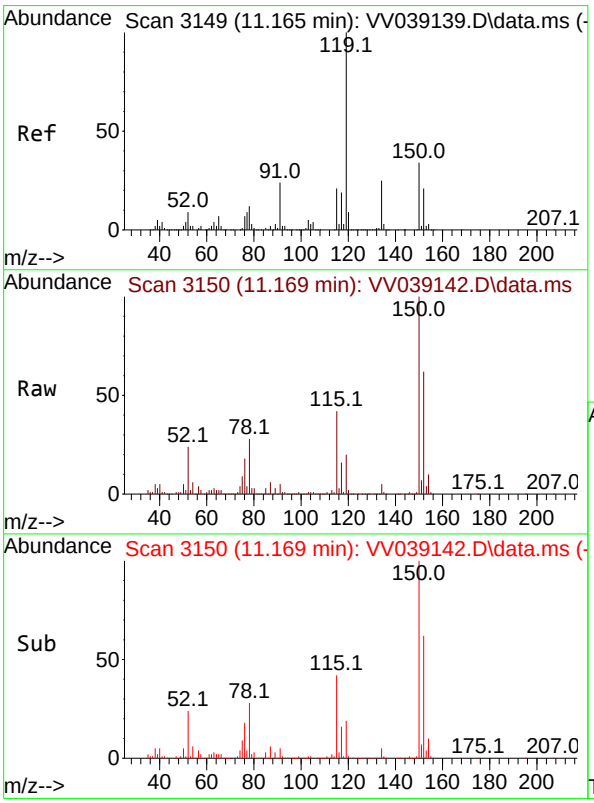
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 18.9 | 9.6 | 28.8 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

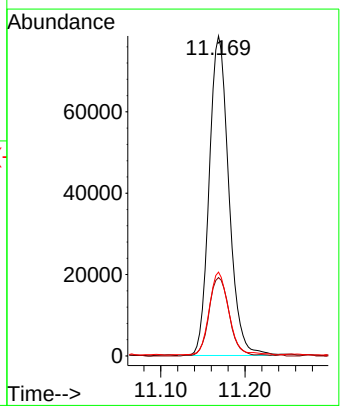
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

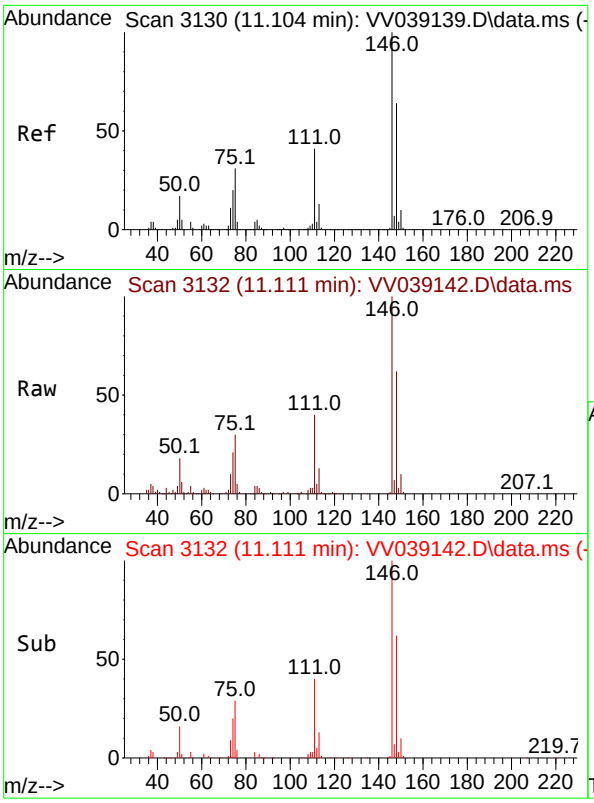



#86
p-Isopropyltoluene
Concen: 4.511 ug/l
RT: 11.169 min Scan# 3150
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:119 Resp: 127377

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.3 | 12.7 | 38.0 |
| 91 | 25.7 | 12.0 | 36.1 |

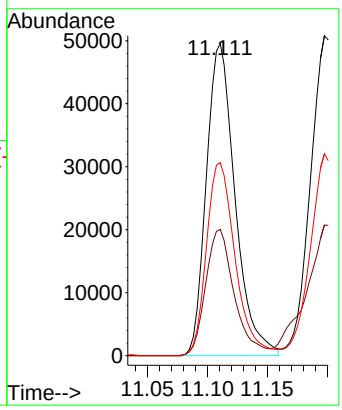





#87
1,3-Dichlorobenzene
Concen: 5.102 ug/l
RT: 11.111 min Scan# 3
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:146 Resp: 8267

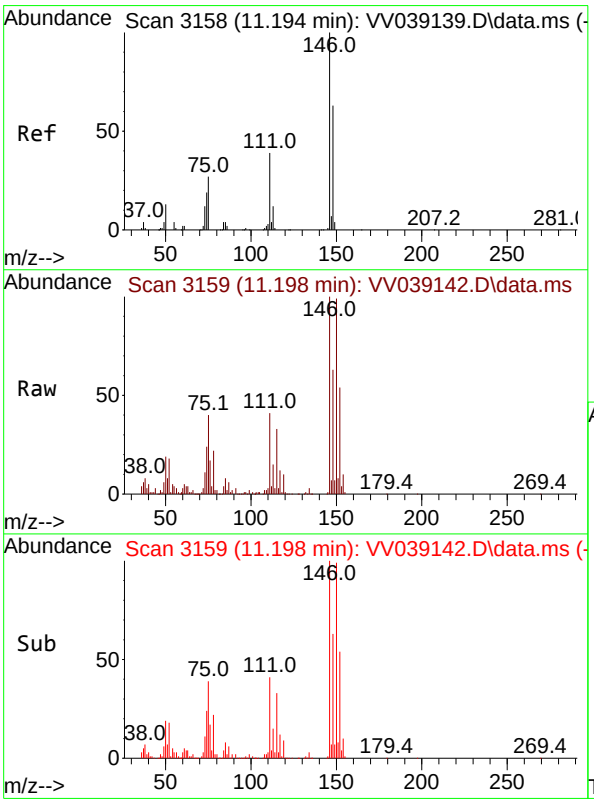
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.3 | 20.9 | 62.8 |
| 148 | 62.1 | 31.8 | 95.3 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

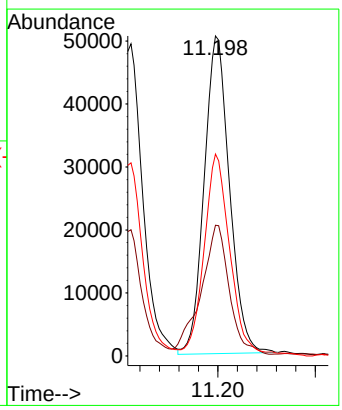
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

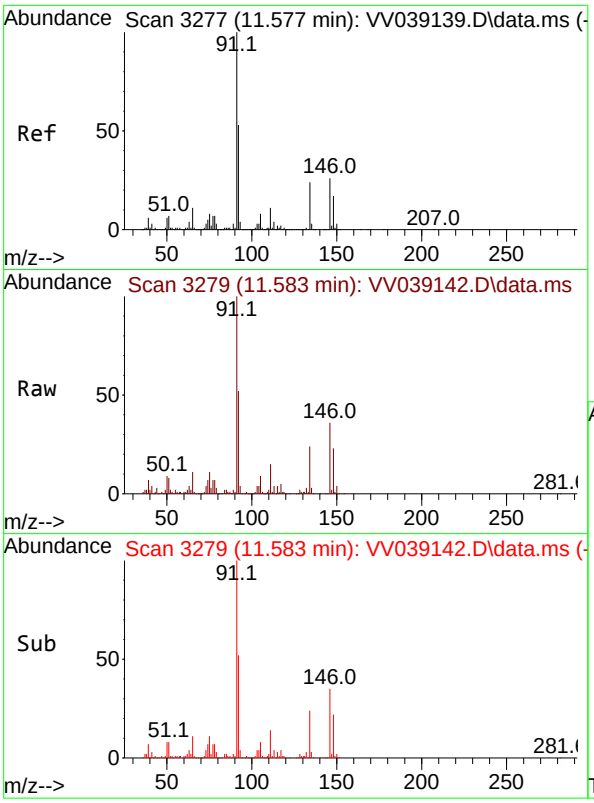



#88
1,4-Dichlorobenzene
Concen: 5.082 ug/l
RT: 11.198 min Scan# 3159
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:146 Resp: 91001

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.9 | 20.3 | 60.8 |
| 148 | 65.7 | 31.4 | 94.2 |






#89
n-Butylbenzene
Concen: 4.443 ug/l
RT: 11.583 min Scan# 3
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

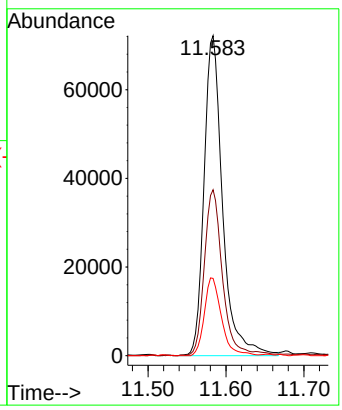
Tgt Ion: 91 Resp: 11982

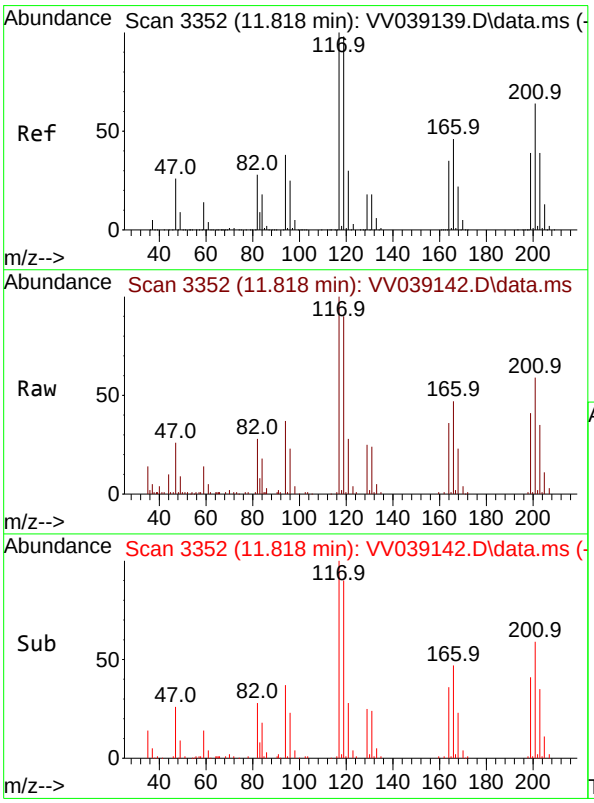
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 49.9 | 26.6 | 79.8 |
| 134 | 22.4 | 12.1 | 36.3 |

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

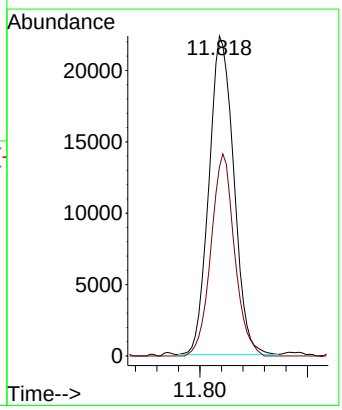


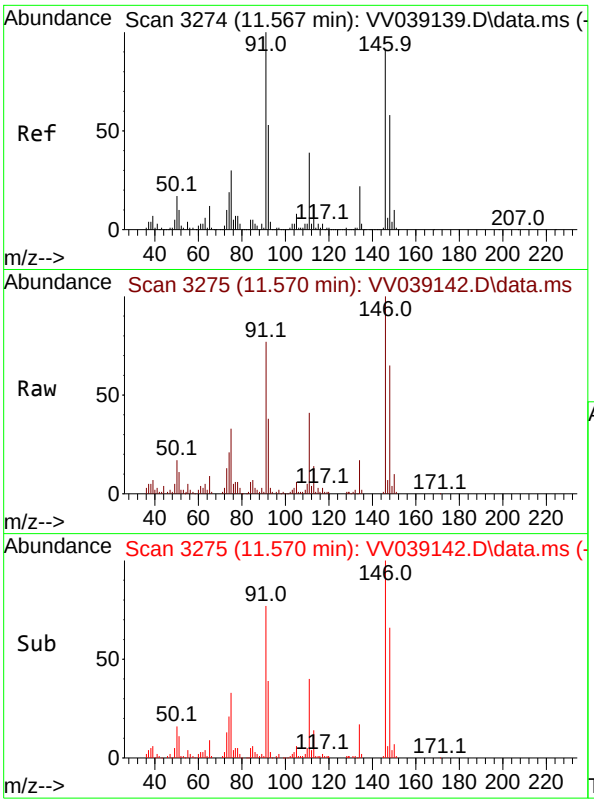




#90
Hexachloroethane
Concen: 5.143 ug/l
RT: 11.818 min Scan# 3352
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:117 Resp: 35762

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 60.2 | 32.3 | 96.8 |

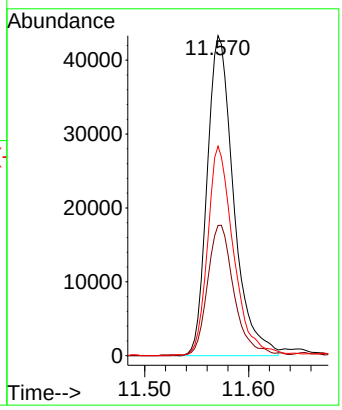





#91
1,2-Dichlorobenzene
Concen: 5.052 ug/l
RT: 11.570 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:146 Resp: 7647

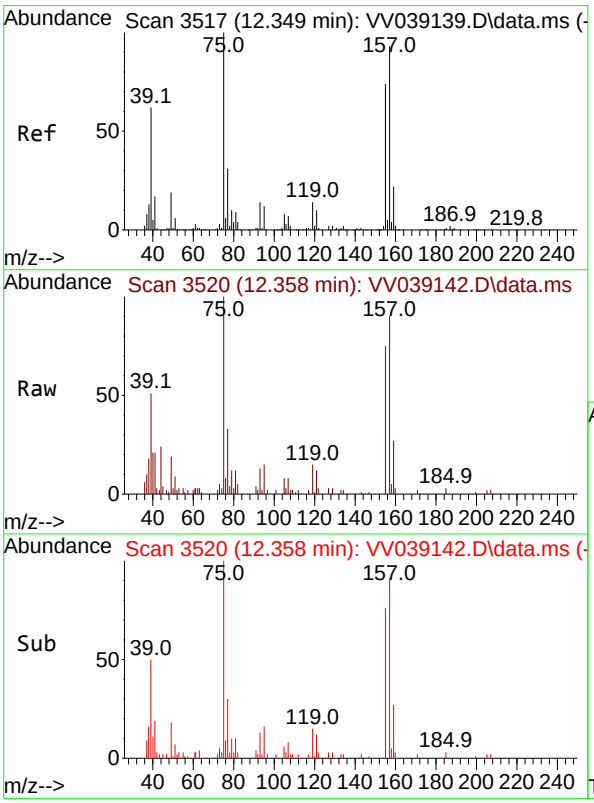
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.0 | 21.5 | 64.5 |
| 148 | 64.2 | 31.9 | 95.7 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

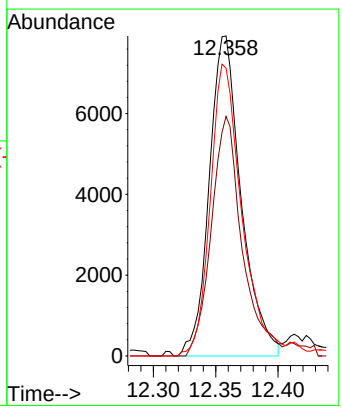
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

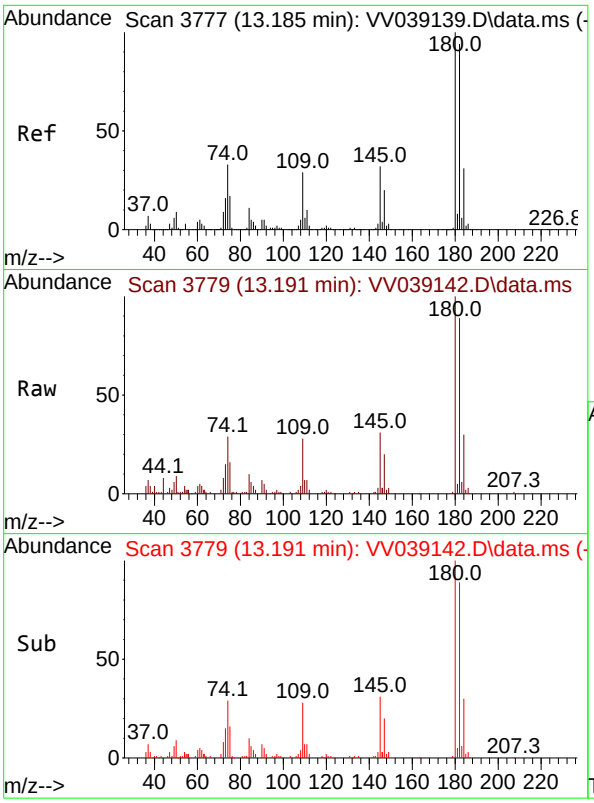



#92
1,2-Dibromo-3-Chloropropane
Concen: 5.211 ug/l
RT: 12.358 min Scan# 3520
Delta R.T. 0.009 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion: 75 Resp: 14163

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 71.9 | 38.6 | 115.8 |
| 157 | 90.2 | 49.5 | 148.3 |

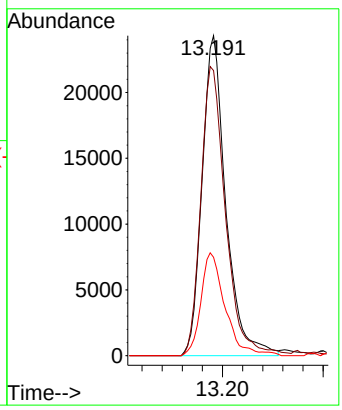





#93
1,2,4-Trichlorobenzene
Concen: 4.583 ug/l
RT: 13.191 min Scan# 3
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:180 Resp: 3977

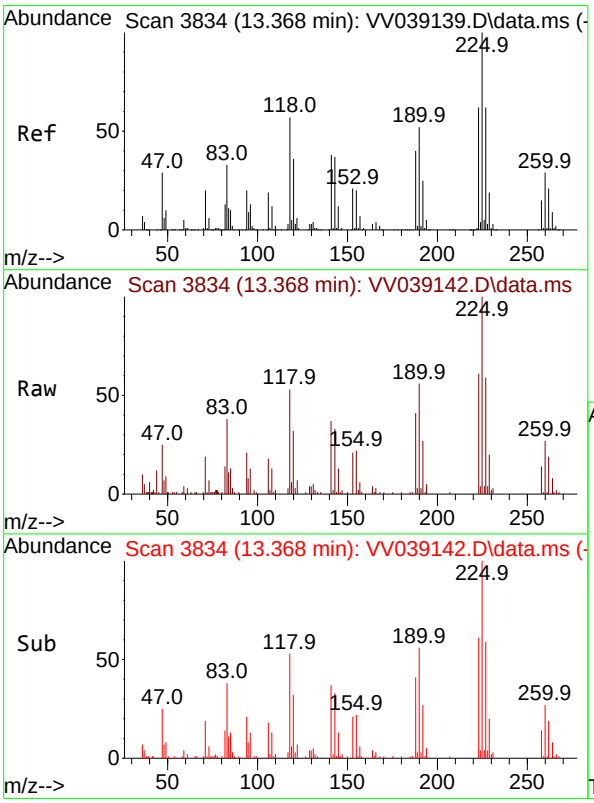
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.0 | 47.1 | 141.4 |
| 145 | 32.8 | 16.3 | 48.8 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

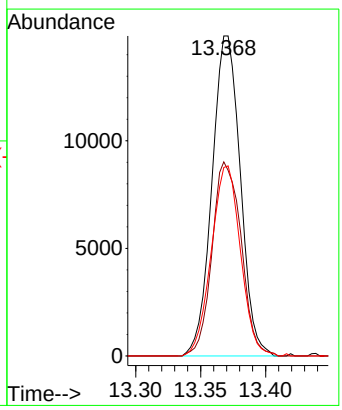
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

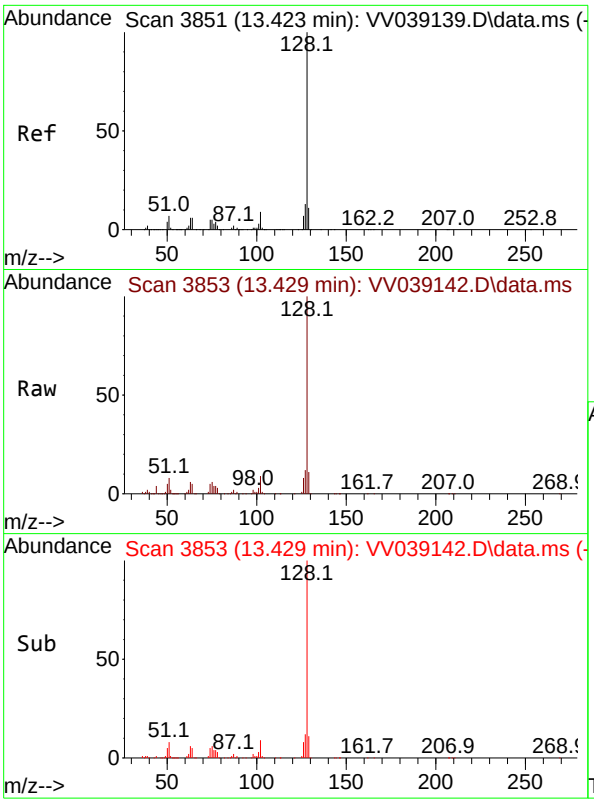



#94
Hexachlorobutadiene
Concen: 5.001 ug/l
RT: 13.368 min Scan# 3834
Delta R.T. -0.000 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:225 Resp: 22549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.4 | 31.6 | 94.7 |
| 227 | 61.2 | 31.8 | 95.4 |

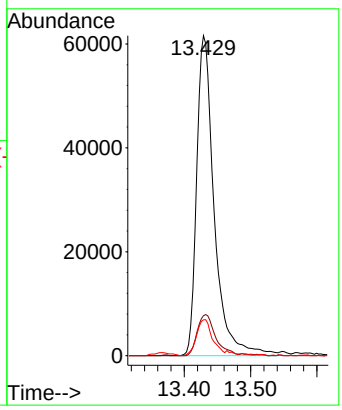





#95
Naphthalene
Concen: 4.062 ug/l
RT: 13.429 min Scan# 3
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:128 Resp: 11339

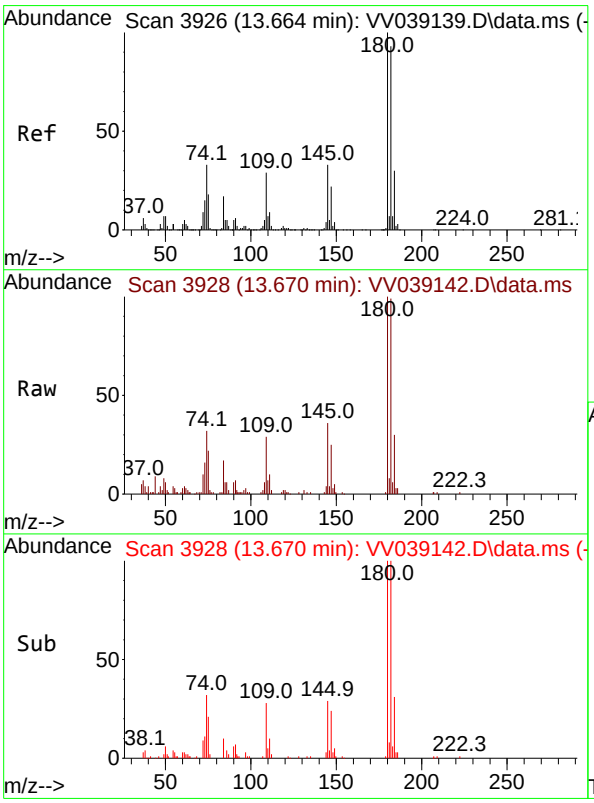
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.4 | 10.3 | 15.5 |
| 129 | 10.2 | 8.6 | 13.0 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

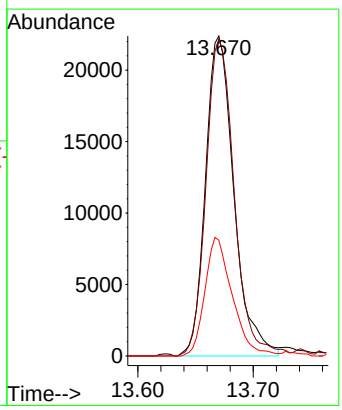
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025




#96
1,2,3-Trichlorobenzene
Concen: 4.317 ug/l
RT: 13.670 min Scan# 3928
Delta R.T. 0.006 min
Lab File: VV039142.D
Acq: 22 Sep 2025 15:37

Tgt Ion:180 Resp: 38315

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 98.3 | 46.9 | 140.8 |
| 145 | 35.6 | 17.0 | 51.0 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039143.D
Acq On : 22 Sep 2025 16:35
Operator : SY/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

Quant Time: Sep 24 07:26:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.603 | 168 | 406498 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.535 | 114 | 735855 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.776 | 117 | 700418 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.175 | 152 | 322677 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 0.000 | 65 | 0d | 0.000 | ug/l | |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = | 0.000%# | | |
| 35) Dibromofluoromethane | 0.000 | 113 | 0d | 0.000 | ug/l | |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = | 0.000%# | | |
| 50) Toluene-d8 | 0.000 | 98 | 0d | 0.000 | ug/l | |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = | 0.000%# | | |
| 62) 4-Bromofluorobenzene | 0.000 | 95 | 0d | 0.000 | ug/l | |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = | 0.000%# | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.121 | 85 | 7593 | 1.180 | ug/l | 98 |
| 3) Chloromethane | 1.230 | 50 | 7695 | 1.114 | ug/l | 99 |
| 4) Vinyl Chloride | 1.297 | 62 | 8342 | 1.128 | ug/l | 98 |
| 6) Chloroethane | 1.564 | 64 | 7440 | 0.673 | ug/l | 96 |
| 7) Trichlorofluoromethane | 1.725 | 101 | 12570 | 1.174 | ug/l | 85 |
| 8) Diethyl Ether | 1.921 | 74 | 4650 | 1.170 | ug/l | 92 |
| 9) 1,1,2-Trichlorotrifluo... | 2.082 | 101 | 7630 | 1.198 | ug/l | 96 |
| 12) 1,1-Dichloroethene | 2.085 | 96 | 7094 | 1.157 | ug/l # | 66 |
| 14) Allyl chloride | 2.362 | 41 | 12383 | 1.131 | ug/l | 97 |
| 15) Acrylonitrile | 2.683 | 53 | 23873 | 5.989 | ug/l | 96 |
| 16) Acetone | 2.127 | 43 | 28927 | 3.224 | ug/l | 96 |
| 17) Carbon Disulfide | 2.256 | 76 | 21708 | 1.158 | ug/l | 98 |
| 18) Methyl Acetate | 2.391 | 43 | 9742 | 1.118 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 2.715 | 73 | 21063 | 1.078 | ug/l # | 89 |
| 20) Methylene Chloride | 2.458 | 84 | 16152 | 0.632 | ug/l | 90 |
| 21) trans-1,2-Dichloroethene | 2.709 | 96 | 7797 | 1.195 | ug/l | 92 |
| 22) Diisopropyl ether | 3.220 | 45 | 21620 | 1.032 | ug/l # | 34 |
| 23) Vinyl Acetate | 3.204 | 43 | 91192 | 4.977 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 3.121 | 63 | 15790 | 1.233 | ug/l # | 94 |
| 25) 2-Butanone | 3.921 | 43 | 22515m | 4.862 | ug/l | |
| 26) 2,2-Dichloropropane | 3.815 | 77 | 15492m | 1.369 | ug/l | |
| 27) cis-1,2-Dichloroethene | 3.834 | 96 | 8138 | 1.131 | ug/l | 91 |
| 28) Bromochloromethane | 4.162 | 49 | 6039 | 1.068 | ug/l # | 53 |
| 29) Tetrahydrofuran | 4.262 | 42 | 13621 | 4.619 | ug/l # | 65 |
| 30) Chloroform | 4.288 | 83 | 15288 | 1.143 | ug/l | 96 |
| 32) 1,1,1-Trichloroethane | 4.519 | 97 | 12926 | 1.116 | ug/l | 93 |
| 36) 1,1-Dichloropropene | 4.764 | 75 | 9572m | 1.063 | ug/l | |
| 37) Ethyl Acetate | 4.030 | 43 | 12136m | 1.098 | ug/l | |
| 38) Carbon Tetrachloride | 4.735 | 117 | 13098m | 1.207 | ug/l | |
| 39) Methylcyclohexane | 6.050 | 83 | 9159 | 0.848 | ug/l | 91 |
| 40) Benzene | 5.027 | 78 | 28487 | 0.978 | ug/l | 98 |
| 41) Methacrylonitrile | 4.223 | 41 | 2717m | 2.427 | ug/l | |
| 42) 1,2-Dichloroethane | 5.059 | 62 | 10892 | 1.067 | ug/l | 95 |
| 43) Isopropyl Acetate | 5.236 | 43 | 12786m | 0.840 | ug/l | |
| 44) Trichloroethene | 5.850 | 130 | 6408 | 0.953 | ug/l | 84 |
| 45) 1,2-Dichloropropane | 6.104 | 63 | 6838 | 0.945 | ug/l | 93 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039143.D
Acq On : 22 Sep 2025 16:35
Operator : SY/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 24 07:26:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) Dibromomethane | 6.249 | 93 | 5835 | 1.053 | ug/l | | 89 |
| 47) Bromodichloromethane | 6.439 | 83 | 12206 | 1.066 | ug/l | # | 90 |
| 48) Methyl methacrylate | 6.371 | 41 | 7232m | 1.038 | ug/l | | |
| 49) 1,4-Dioxane | 6.333 | 88 | 2721m | 24.855 | ug/l | | |
| 51) 4-Methyl-2-Pentanone | 7.165 | 43 | 33797 | 3.472 | ug/l | | 96 |
| 52) Toluene | 7.326 | 92 | 13265 | 0.786 | ug/l | | 87 |
| 53) t-1,3-Dichloropropene | 7.606 | 75 | 8060 | 0.807 | ug/l | | 90 |
| 54) cis-1,3-Dichloropropene | 6.973 | 75 | 8754 | 0.794 | ug/l | # | 93 |
| 55) 1,1,2-Trichloroethane | 7.776 | 97 | 8140 | 1.075 | ug/l | | 91 |
| 56) Ethyl methacrylate | 7.747 | 69 | 7455m | 0.829 | ug/l | | |
| 57) 1,3-Dichloropropane | 7.956 | 76 | 11732 | 0.982 | ug/l | | 94 |
| 58) 2-Chloroethyl Vinyl ether | 6.841 | 63 | 10011 | 11.289 | ug/l | | 98 |
| 59) 2-Hexanone | 8.091 | 43 | 17015 | 4.307 | ug/l | | 98 |
| 60) Dibromochloromethane | 8.172 | 129 | 9122 | 1.057 | ug/l | | 87 |
| 61) 1,2-Dibromoethane | 8.288 | 107 | 7129 | 0.921 | ug/l | | 90 |
| 64) Tetrachloroethene | 7.899 | 164 | 5814 | 0.991 | ug/l | | 90 |
| 65) Chlorobenzene | 8.812 | 112 | 20007 | 1.025 | ug/l | # | 88 |
| 66) 1,1,1,2-Tetrachloroethane | 8.902 | 131 | 7603 | 1.079 | ug/l | # | 61 |
| 67) Ethyl Benzene | 8.947 | 91 | 24171 | 0.818 | ug/l | | 94 |
| 68) m/p-Xylenes | 9.072 | 106 | 16239 | 1.425 | ug/l | | 98 |
| 69) o-Xylene | 9.477 | 106 | 7250 | 0.718 | ug/l | | 79 |
| 70) Styrene | 9.503 | 104 | 11594 | 2.083 | ug/l | # | 80 |
| 71) Bromoform | 9.667 | 173 | 5558 | 1.009 | ug/l | # | 94 |
| 73) Isopropylbenzene | 9.860 | 105 | 20820 | 0.890 | ug/l | | 98 |
| 74) N-amyl acetate | 9.747 | 43 | 6654 | 0.713 | ug/l | # | 91 |
| 75) 1,1,2,2-Tetrachloroethane | 10.169 | 83 | 12746 | 1.243 | ug/l | | 95 |
| 76) 1,2,3-Trichloropropane | 10.207 | 75 | 8871 | 1.207 | ug/l | | 100 |
| 77) Bromobenzene | 10.159 | 156 | 6311 | 1.039 | ug/l | | 93 |
| 78) n-propylbenzene | 10.284 | 91 | 24996 | 0.877 | ug/l | | 96 |
| 79) 2-Chlorotoluene | 10.355 | 91 | 13640 | 0.800 | ug/l | | 89 |
| 80) 1,3,5-Trimethylbenzene | 10.471 | 105 | 15886 | 0.817 | ug/l | | 96 |
| 82) 4-Chlorotoluene | 10.474 | 91 | 15363 | 0.777 | ug/l | | 91 |
| 83) tert-Butylbenzene | 10.789 | 119 | 18552 | 0.956 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 10.847 | 105 | 15048 | 0.797 | ug/l | | 95 |
| 85) sec-Butylbenzene | 11.014 | 105 | 23268 | 0.904 | ug/l | | 98 |
| 86) p-Isopropyltoluene | 11.168 | 119 | 18549 | 0.866 | ug/l | | 86 |
| 87) 1,3-Dichlorobenzene | 11.117 | 146 | 12747 | 1.037 | ug/l | | 97 |
| 88) 1,4-Dichlorobenzene | 11.201 | 146 | 16279m | 1.199 | ug/l | | |
| 89) n-Butylbenzene | 11.586 | 91 | 17079 | 0.835 | ug/l | | 94 |
| 90) Hexachloroethane | 11.818 | 117 | 6736 | 1.277 | ug/l | | 94 |
| 91) 1,2-Dichlorobenzene | 11.577 | 146 | 12486 | 1.088 | ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.361 | 75 | 3071 | 0.690 | ug/l | | 75 |
| 93) 1,2,4-Trichlorobenzene | 13.197 | 180 | 6637 | 1.008 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 13.368 | 225 | 4406 | 1.288 | ug/l | | 95 |
| 95) Naphthalene | 13.438 | 128 | 19706m | 0.931 | ug/l | | |
| 96) 1,2,3-Trichlorobenzene | 13.676 | 180 | 7184 | 1.067 | ug/l | | 97 |

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

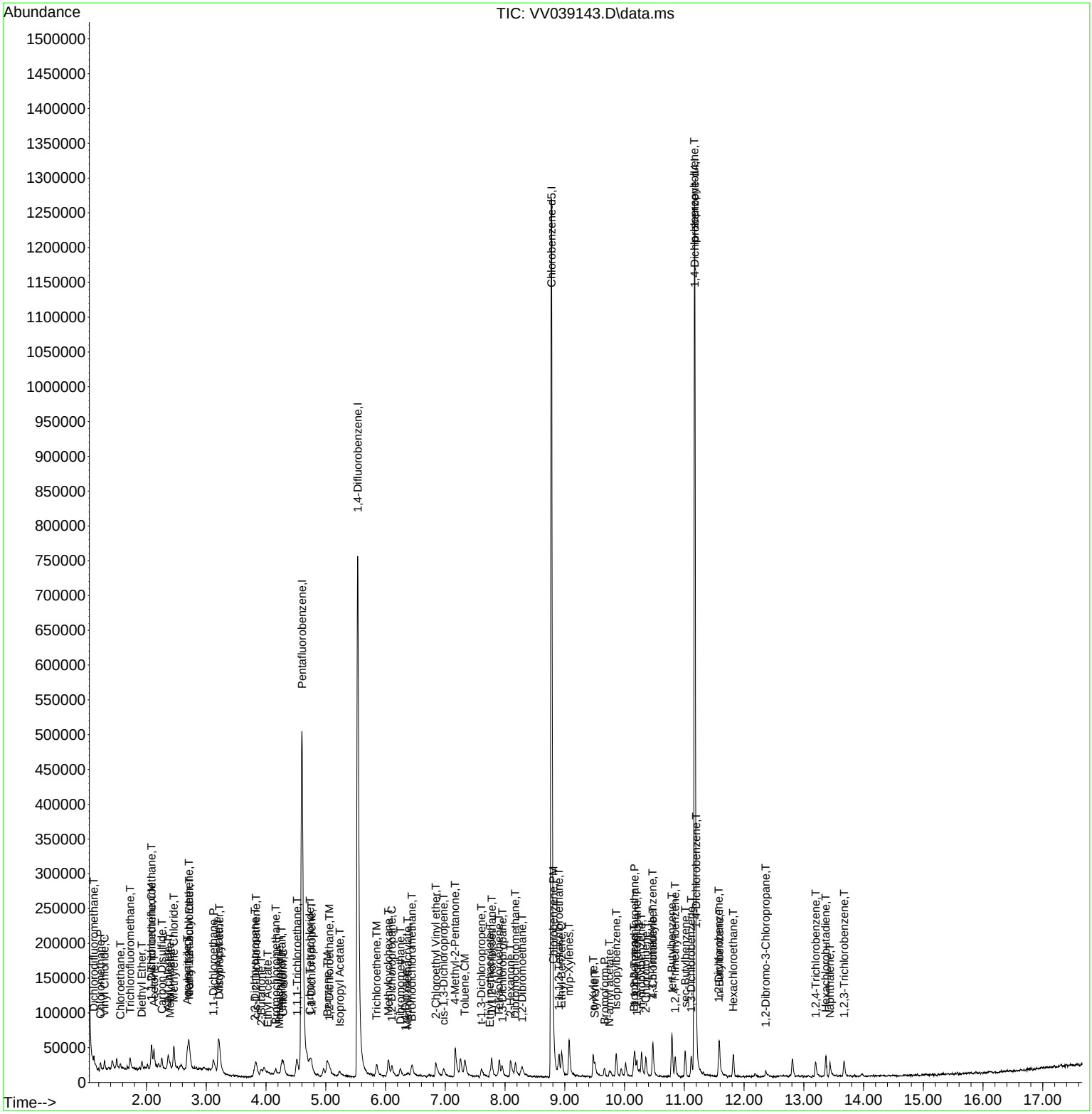
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039143.D
Acq On : 22 Sep 2025 16:35
Operator : SY/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 11 Sample Multiplier: 1

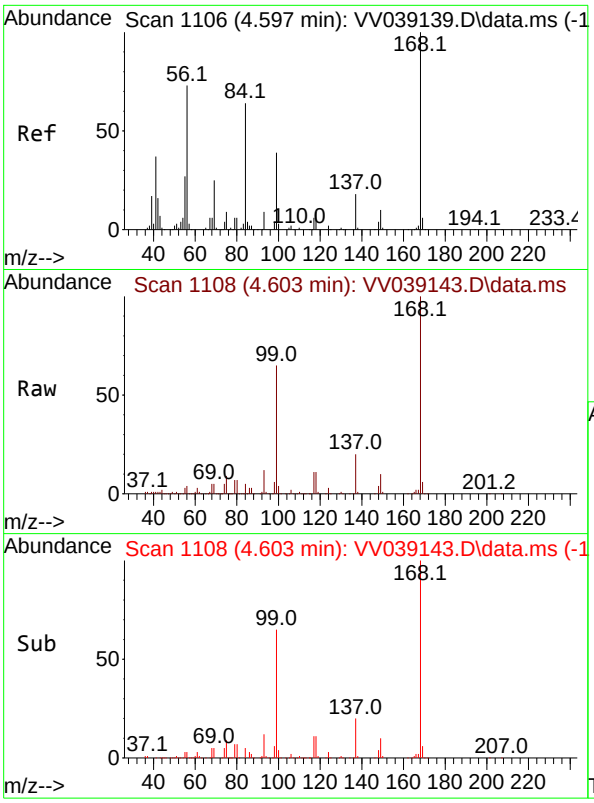
Quant Time: Sep 24 07:26:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 07:14:23 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

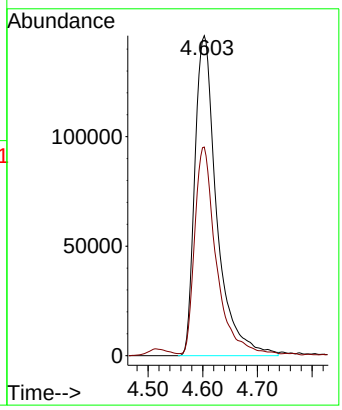





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.603 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:168 Resp: 40649

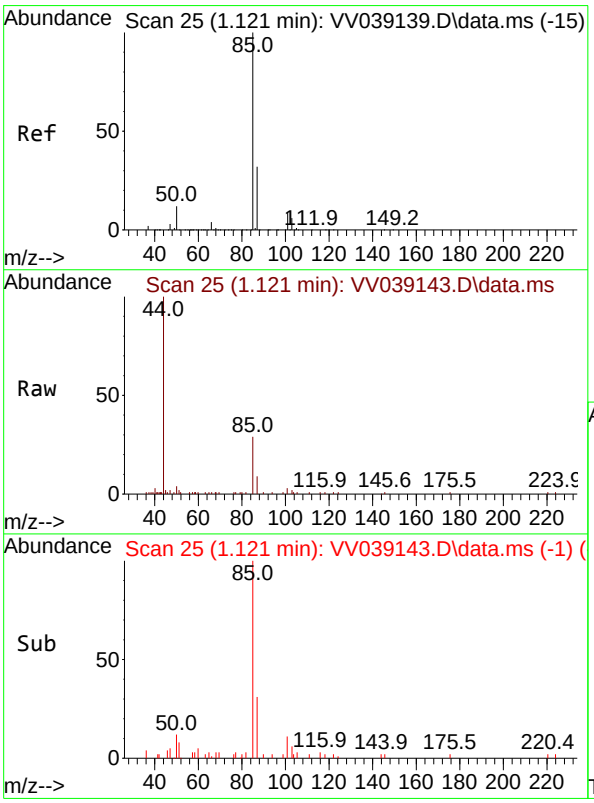
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 64.6 | 49.6 | 74.4 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

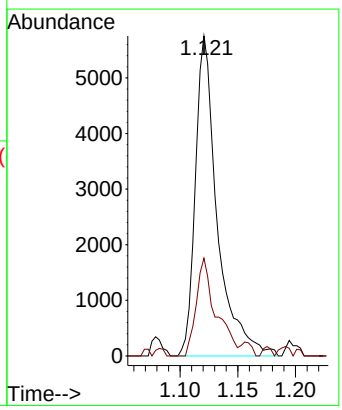
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

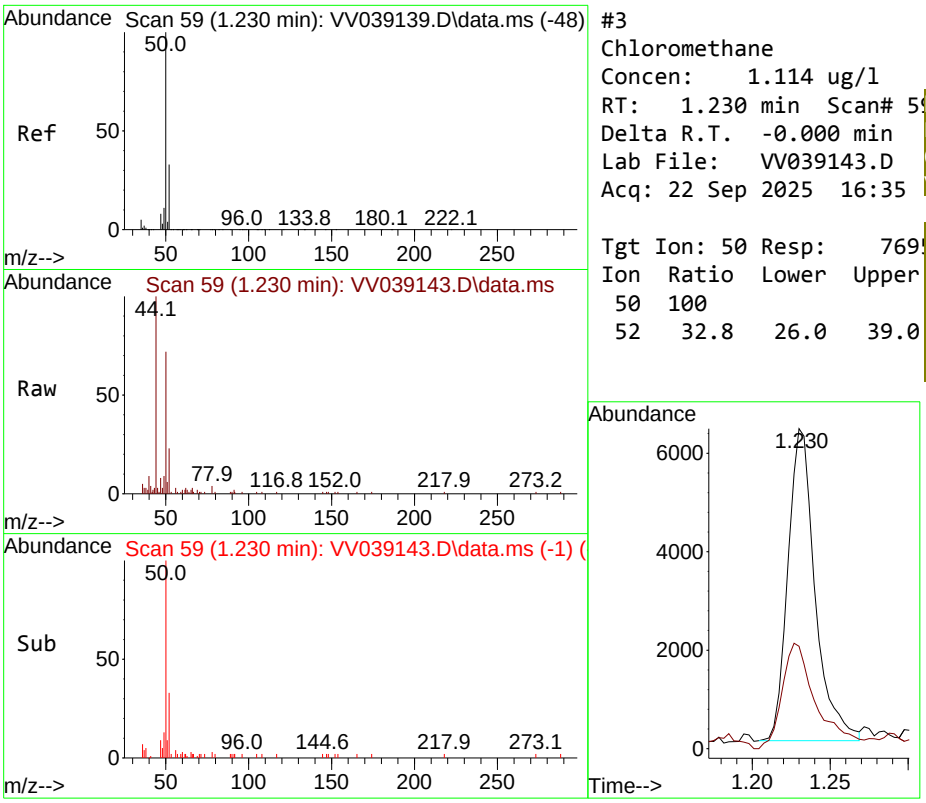



#2
Dichlorodifluoromethane
Concen: 1.180 ug/l
RT: 1.121 min Scan# 25
Delta R.T. -0.000 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 85 Resp: 7593

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 30.5 | 16.0 | 47.9 |






#3
Chloromethane
Concen: 1.114 ug/l
RT: 1.230 min Scan# 5
Delta R.T. -0.000 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 50 Resp: 769

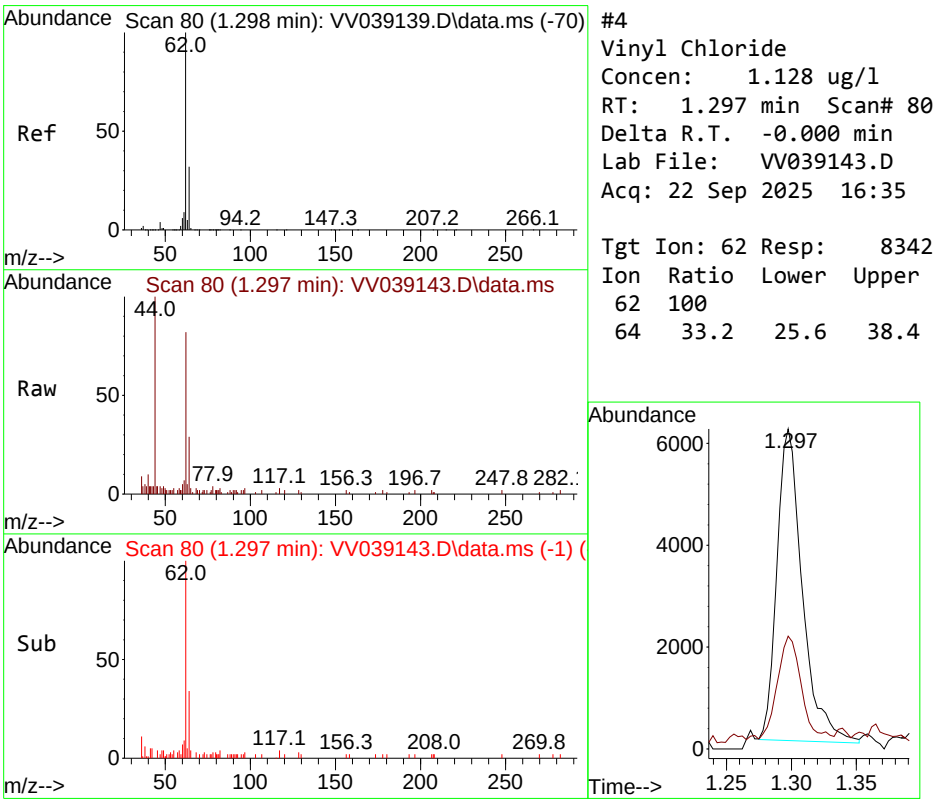
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.8 | 26.0 | 39.0 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

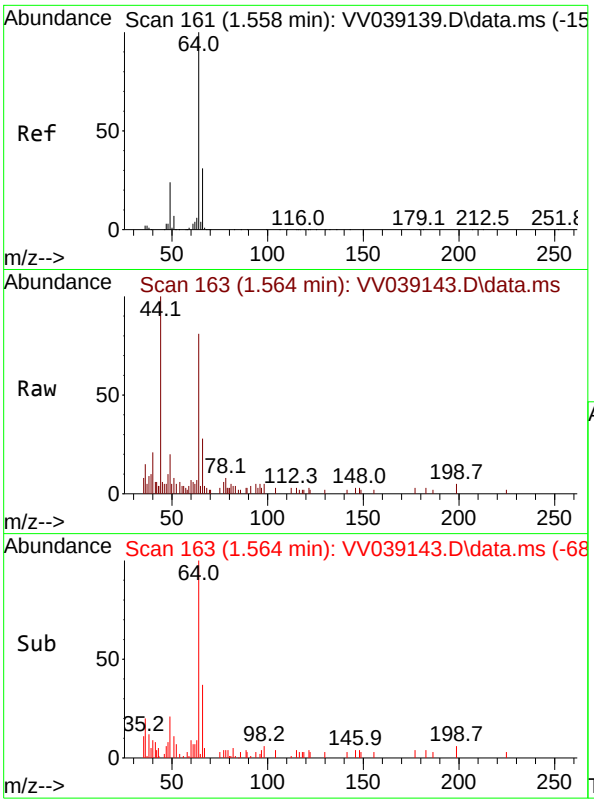
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025




#4
Vinyl Chloride
Concen: 1.128 ug/l
RT: 1.297 min Scan# 80
Delta R.T. -0.000 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 62 Resp: 8342

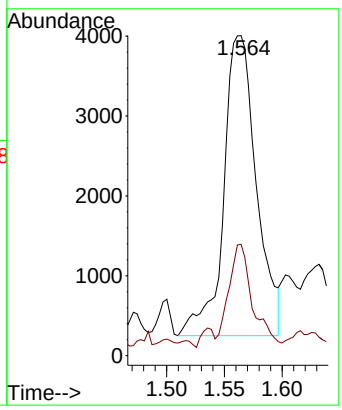
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 33.2 | 25.6 | 38.4 |




#6
Chloroethane
Concen: 0.673 ug/l
RT: 1.564 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 64 Resp: 744

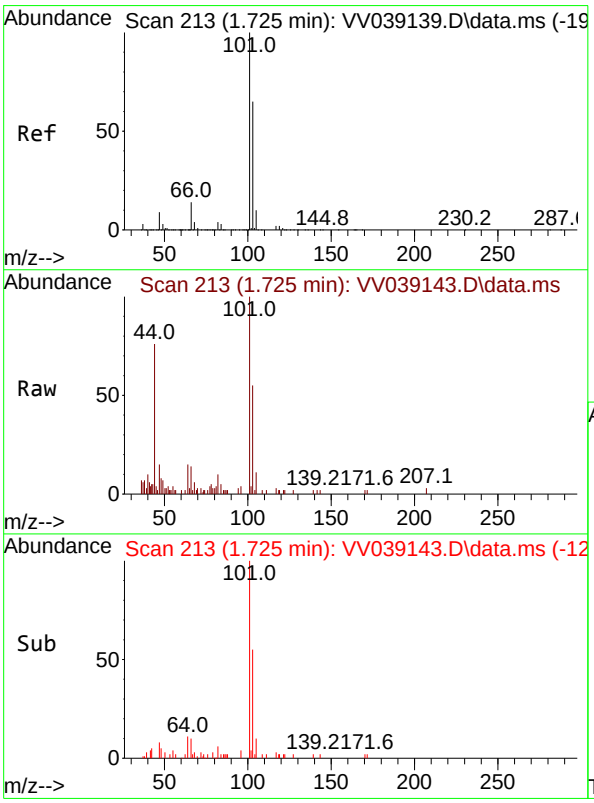
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.9 | 24.6 | 36.8 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

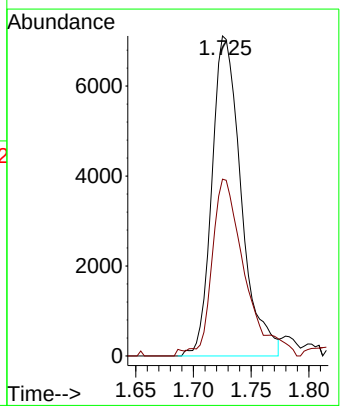
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

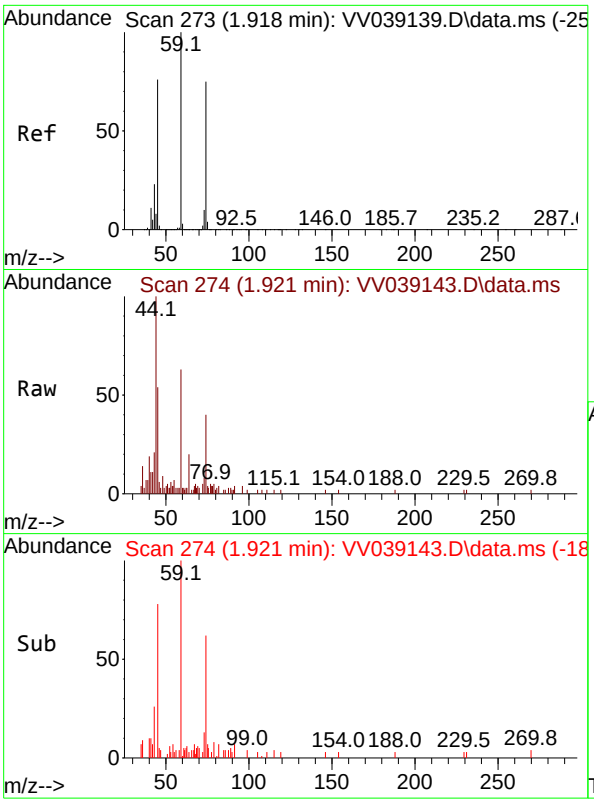



#7
Trichlorofluoromethane
Concen: 1.174 ug/l
RT: 1.725 min Scan# 213
Delta R.T. -0.000 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:101 Resp: 12570

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 53.2 | 52.0 | 78.0 |

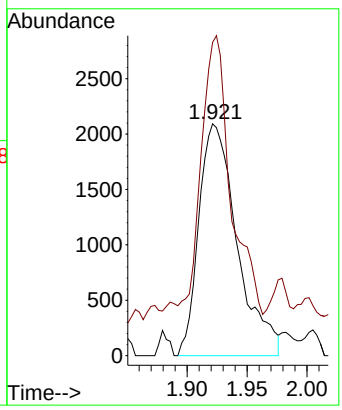





#8
Diethyl Ether
Concen: 1.170 ug/l
RT: 1.921 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 74 Resp: 465

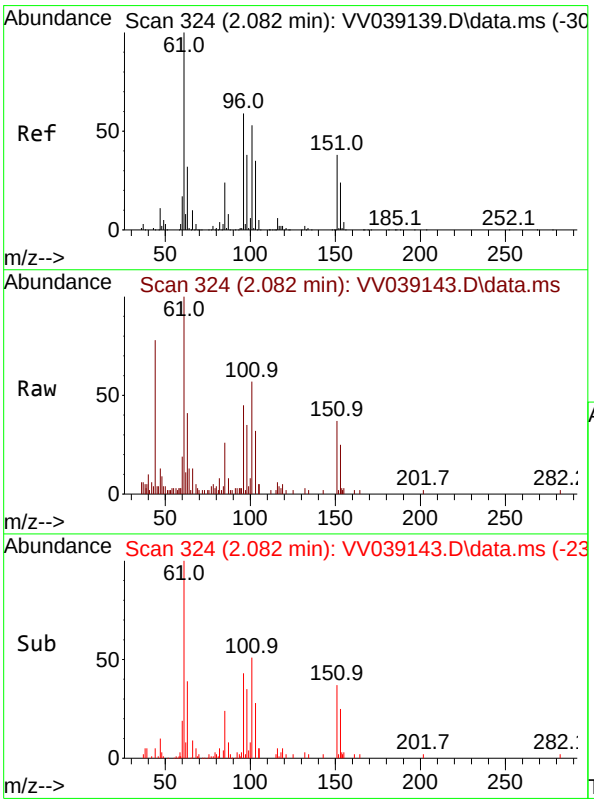
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 107.4 | 49.6 | 148.8 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

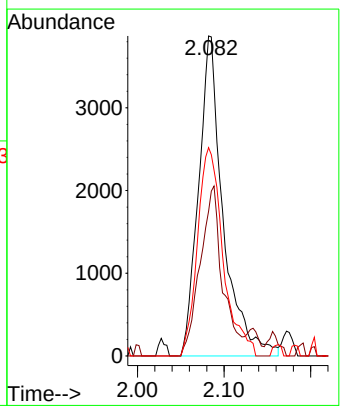
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

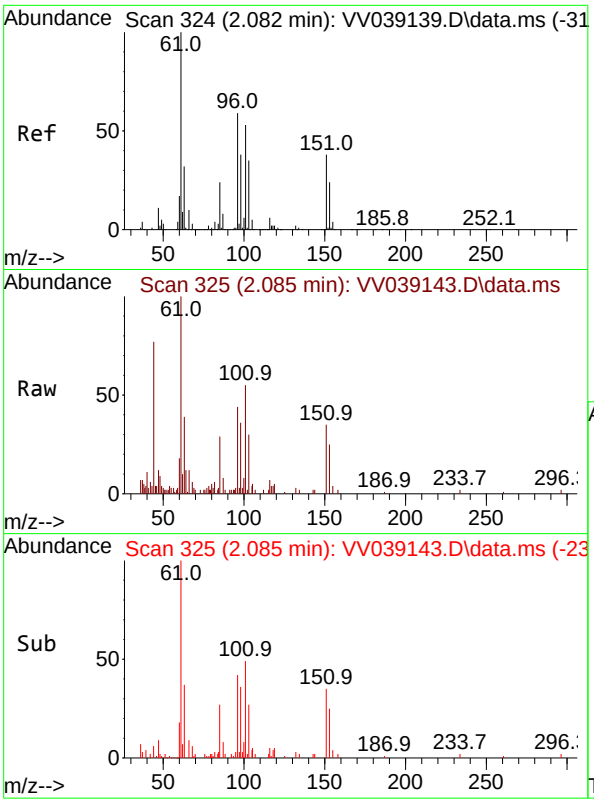



#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.198 ug/l
RT: 2.082 min Scan# 324
Delta R.T. -0.000 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:101 Resp: 7630

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 48.1 | 36.2 | 54.2 |
| 151 | 67.5 | 56.3 | 84.5 |






#12
1,1-Dichloroethene
Concen: 1.157 ug/l
RT: 2.085 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

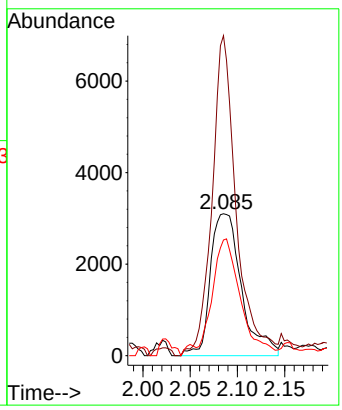
Tgt Ion: 96 Resp: 709

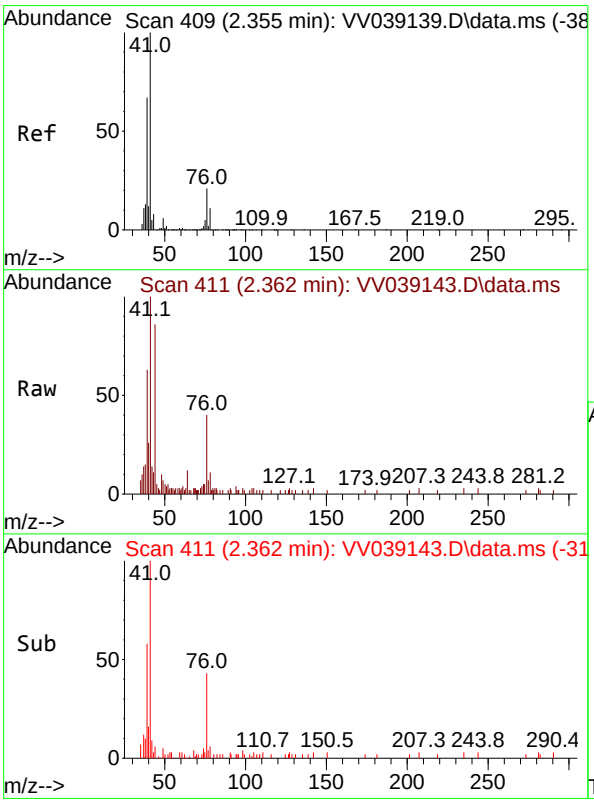
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 225.5 | 136.0 | 204.0# |
| 98 | 77.5 | 51.0 | 76.6# |

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

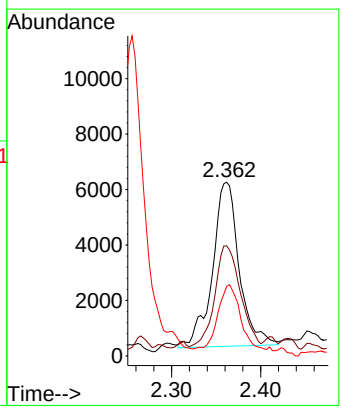


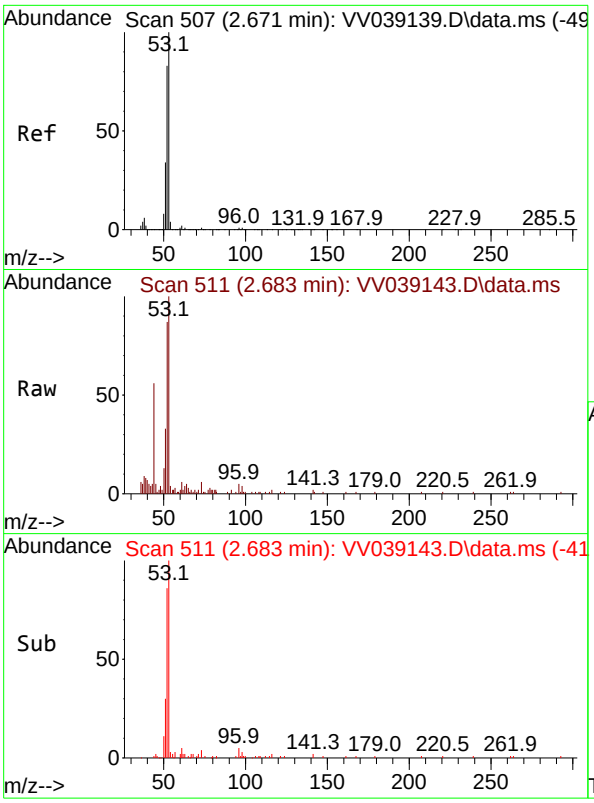




#14
Allyl chloride
Concen: 1.131 ug/l
RT: 2.362 min Scan# 411
Delta R.T. 0.006 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 41 Resp: 12383

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 60.4 | 51.0 | 76.6 |
| 76 | 35.0 | 28.2 | 42.4 |

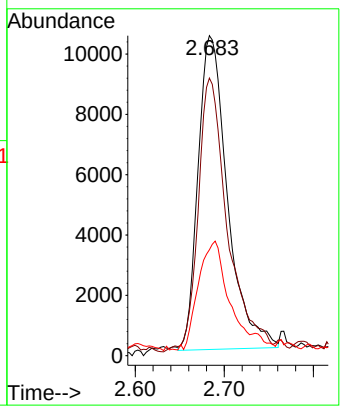





#15
Acrylonitrile
Concen: 5.989 ug/l
RT: 2.683 min Scan# 5
Delta R.T. 0.013 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 53 Resp: 2387

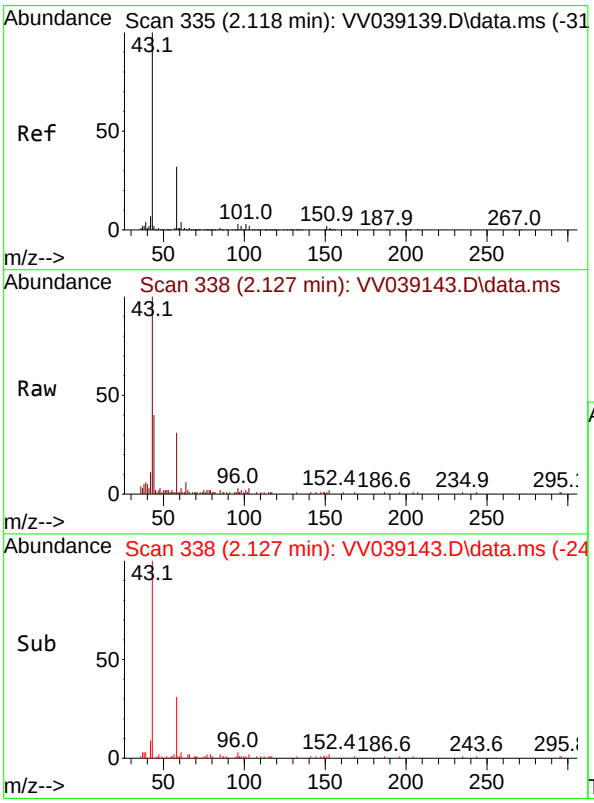
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 87.4 | 66.1 | 99.1 |
| 51 | 35.1 | 28.5 | 42.7 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

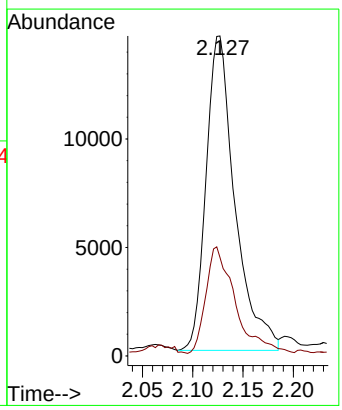
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

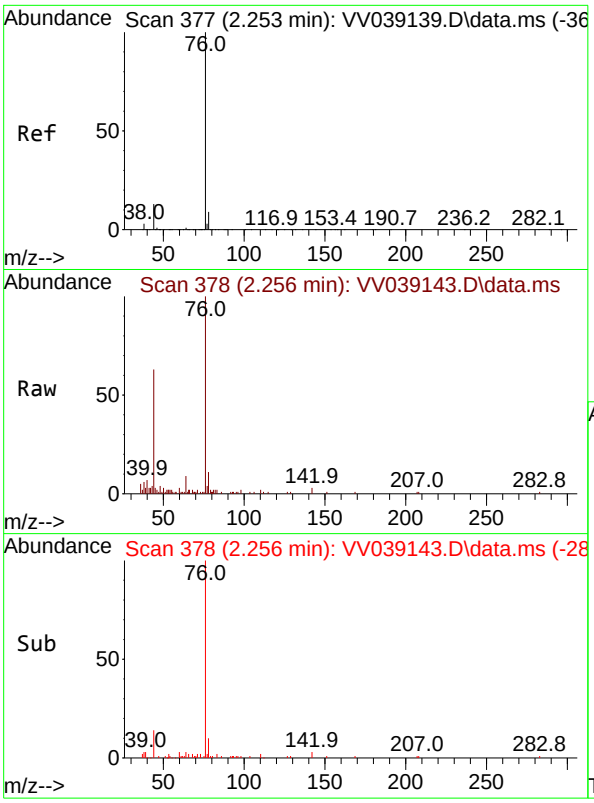



#16
Acetone
Concen: 3.224 ug/l
RT: 2.127 min Scan# 338
Delta R.T. 0.009 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 43 Resp: 28927

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 30.2 | 25.8 | 38.6 |

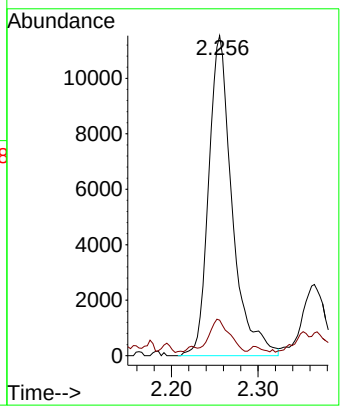





#17
Carbon Disulfide
Concen: 1.158 ug/l
RT: 2.256 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 76 Resp: 2170

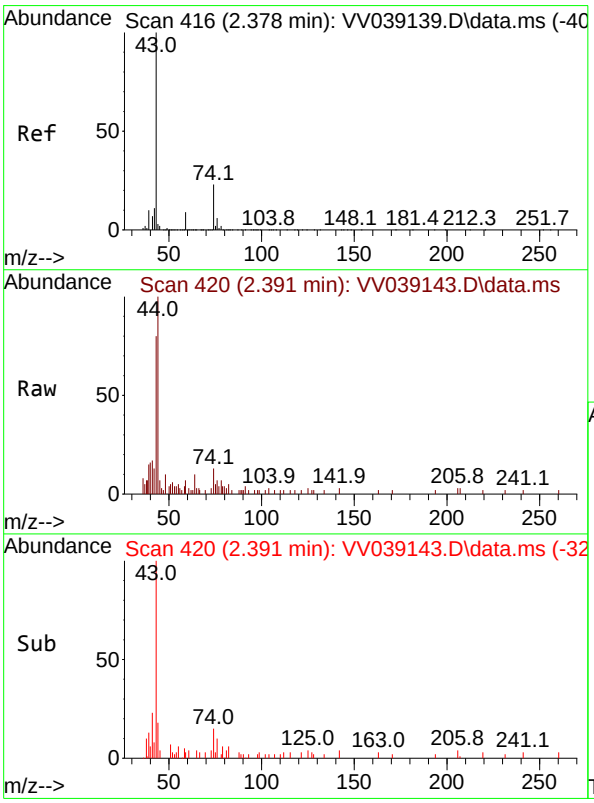
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.8 | 7.4 | 11.0 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**

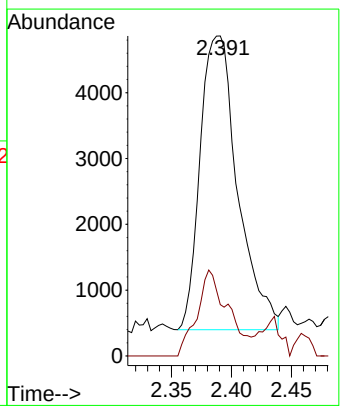
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

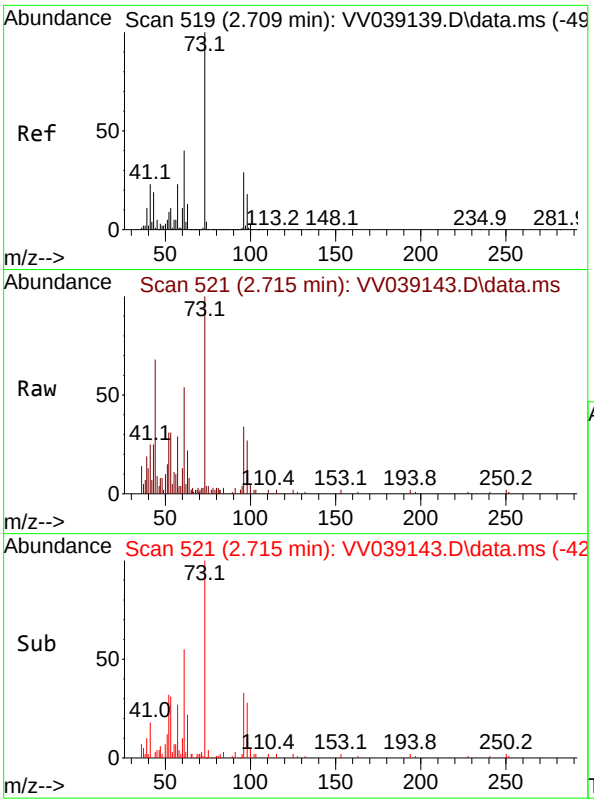



#18
Methyl Acetate
Concen: 1.118 ug/l
RT: 2.391 min Scan# 420
Delta R.T. 0.013 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 43 Resp: 9742

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 24.3 | 18.6 | 27.8 |

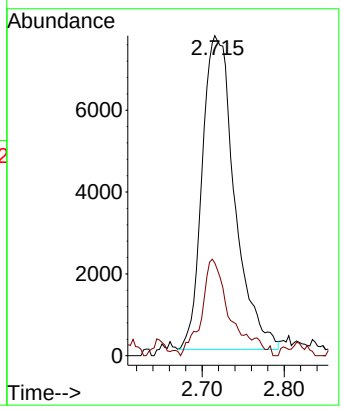





#19
Methyl tert-butyl Ether
Concen: 1.078 ug/l
RT: 2.715 min Scan# 5
Delta R.T. 0.006 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 73 Resp: 2106

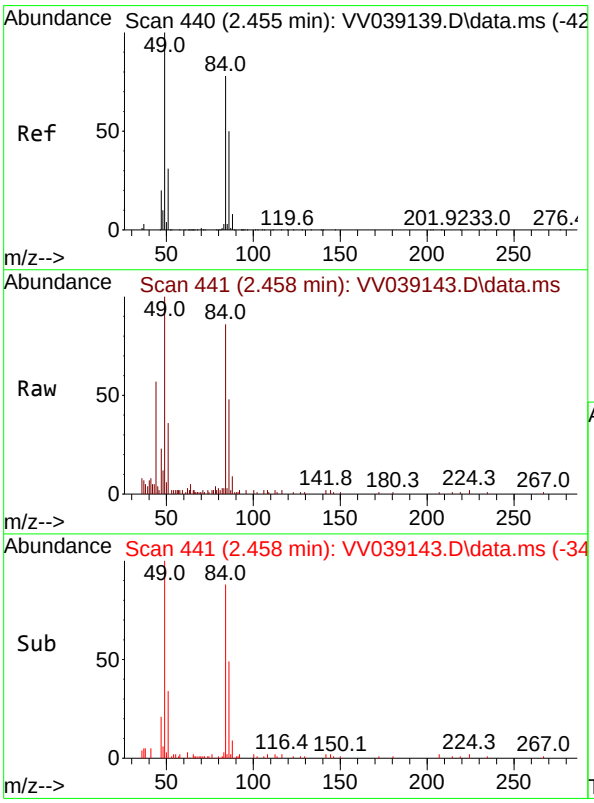
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 28.1 | 18.2 | 27.4 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

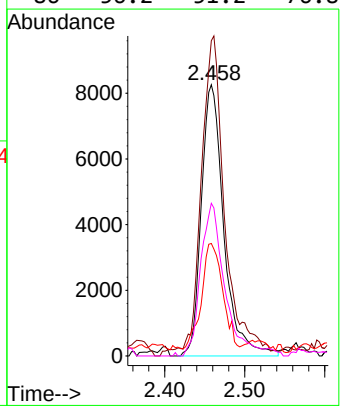
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

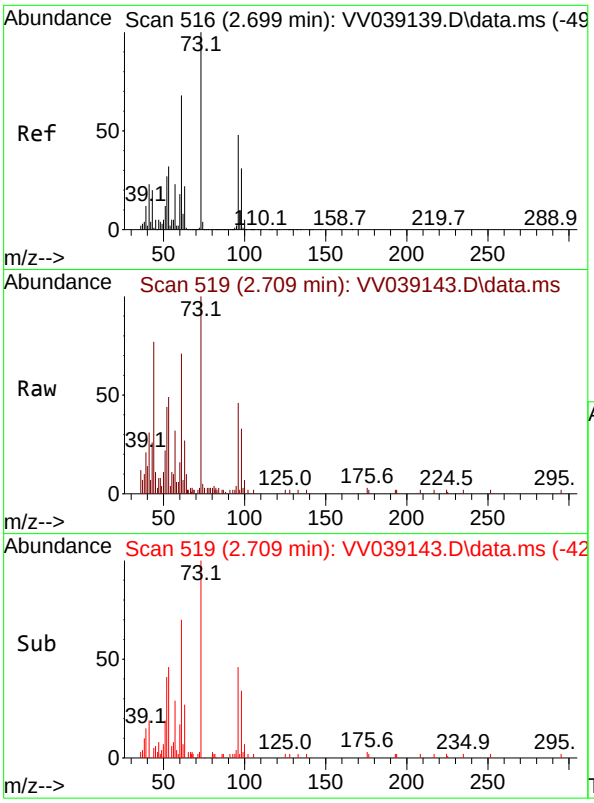



#20
Methylene Chloride
Concen: 0.632 ug/l
RT: 2.458 min Scan# 441
Delta R.T. 0.003 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 84 Resp: 16152

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 114.5 | 102.8 | 154.2 |
| 51 | 38.2 | 31.9 | 47.9 |
| 86 | 56.2 | 51.2 | 76.8 |

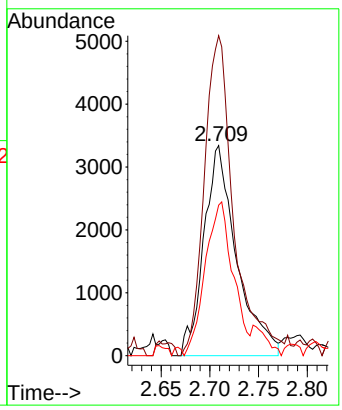





#21
trans-1,2-Dichloroethene
Concen: 1.195 ug/l
RT: 2.709 min Scan# 5
Delta R.T. 0.010 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 96 Resp: 779

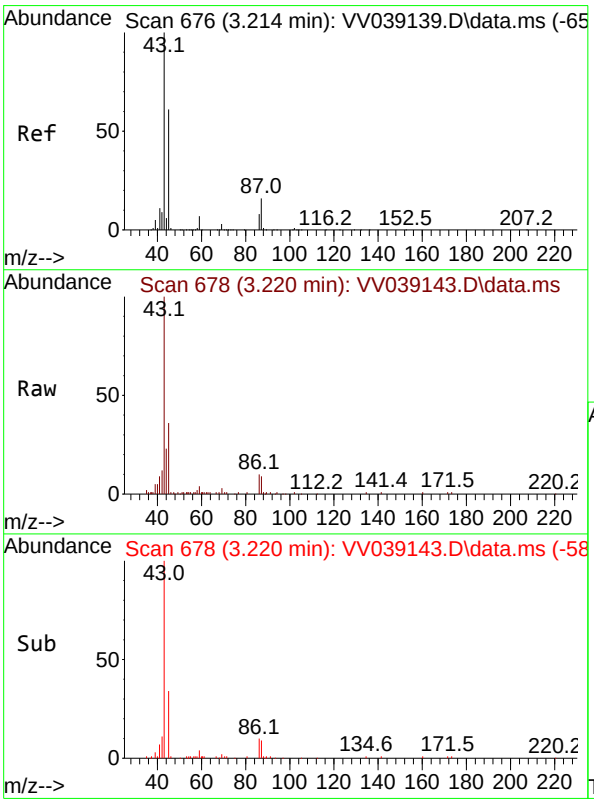
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 152.3 | 112.8 | 169.2 |
| 98 | 68.3 | 51.1 | 76.7 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

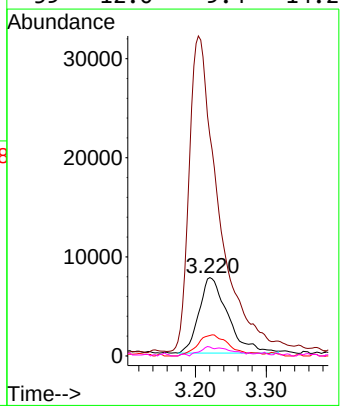
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

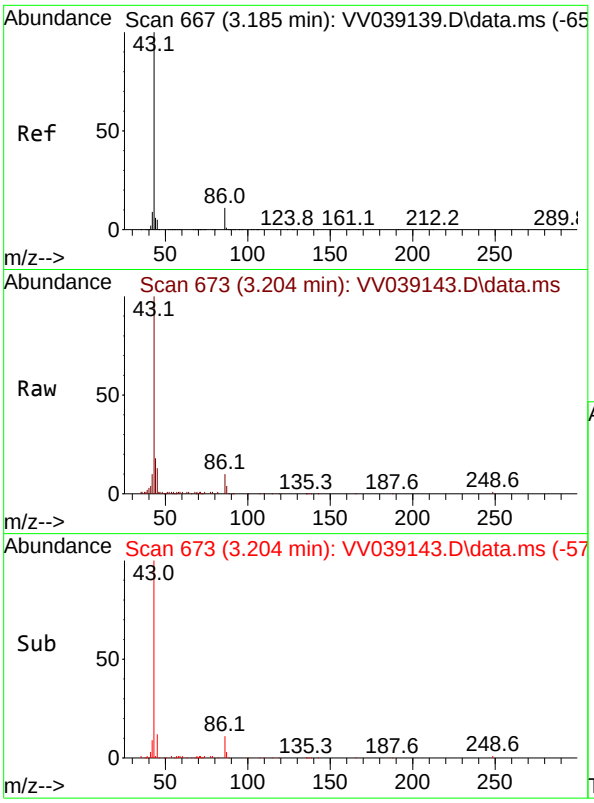



#22
Diisopropyl ether
Concen: 1.032 ug/l
RT: 3.220 min Scan# 678
Delta R.T. 0.006 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 45 Resp: 21620

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 273.0 | 130.9 | 196.3# |
| 87 | 27.1 | 21.1 | 31.7 |
| 59 | 12.0 | 9.4 | 14.2 |






#23
Vinyl Acetate
Concen: 4.977 ug/l
RT: 3.204 min Scan# 6
Delta R.T. 0.019 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

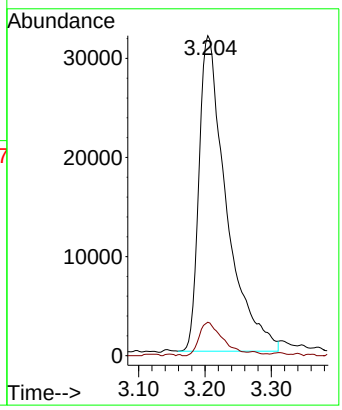
Tgt Ion: 43 Resp: 9119

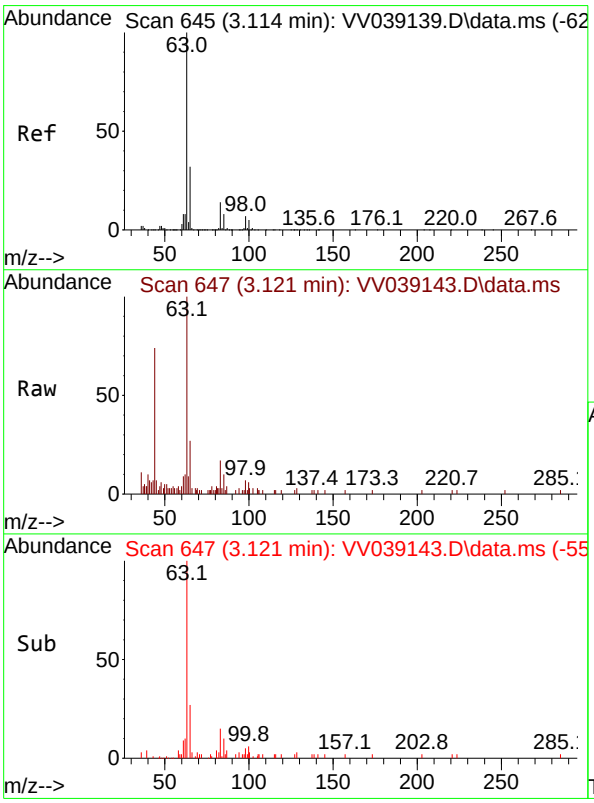
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.3 | 8.4 | 12.6 |

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

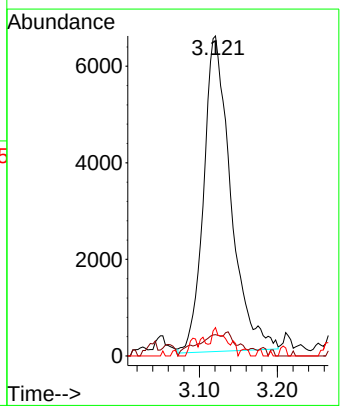


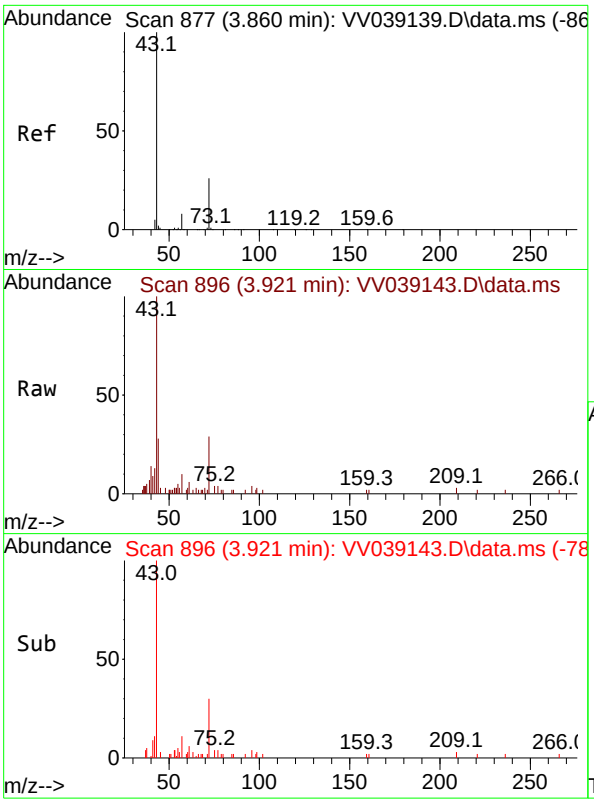




#24
1,1-Dichloroethane
Concen: 1.233 ug/l
RT: 3.121 min Scan# 647
Delta R.T. 0.006 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 63 Resp: 15790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.8 | 3.4 | 10.2 |
| 100 | 9.0 | 2.2 | 6.6# |

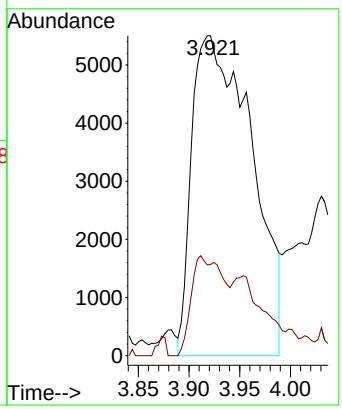





#25
2-Butanone
Concen: 4.862 ug/l m
RT: 3.921 min Scan# 8
Delta R.T. 0.061 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 43 Resp: 2251

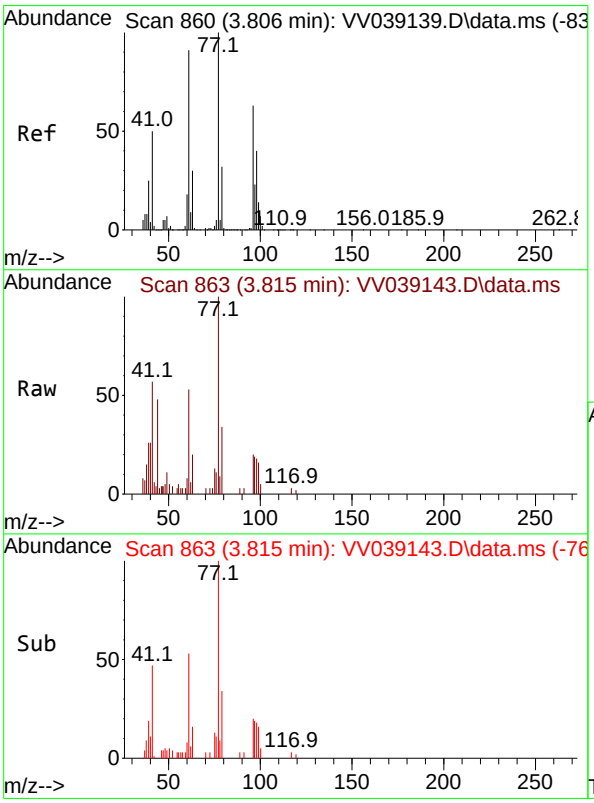
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 28.5 | 21.0 | 31.6 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

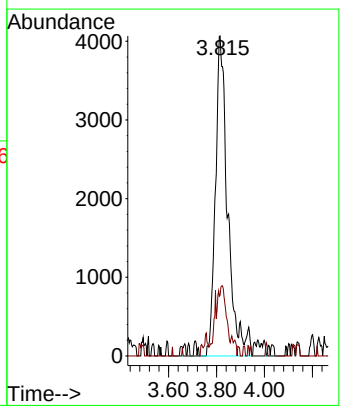
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

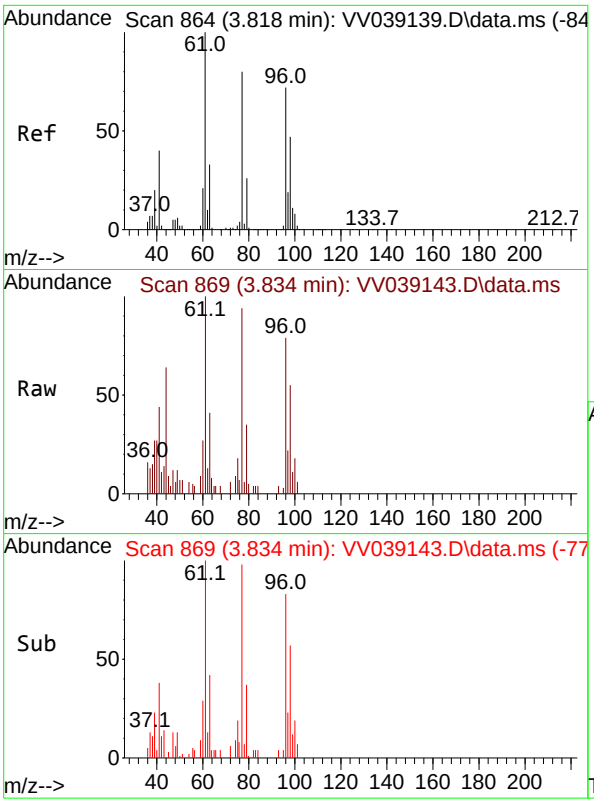



#26
2,2-Dichloropropane
Concen: 1.369 ug/l m
RT: 3.815 min Scan# 863
Delta R.T. 0.010 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 77 Resp: 15492

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 0.3 | 11.6 | 34.7# |






#27
cis-1,2-Dichloroethene
Concen: 1.131 ug/l
RT: 3.834 min Scan# 8
Delta R.T. 0.016 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

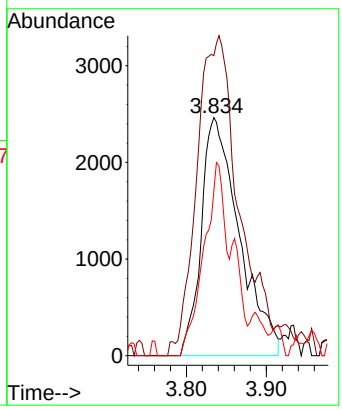
Tgt Ion: 96 Resp: 813

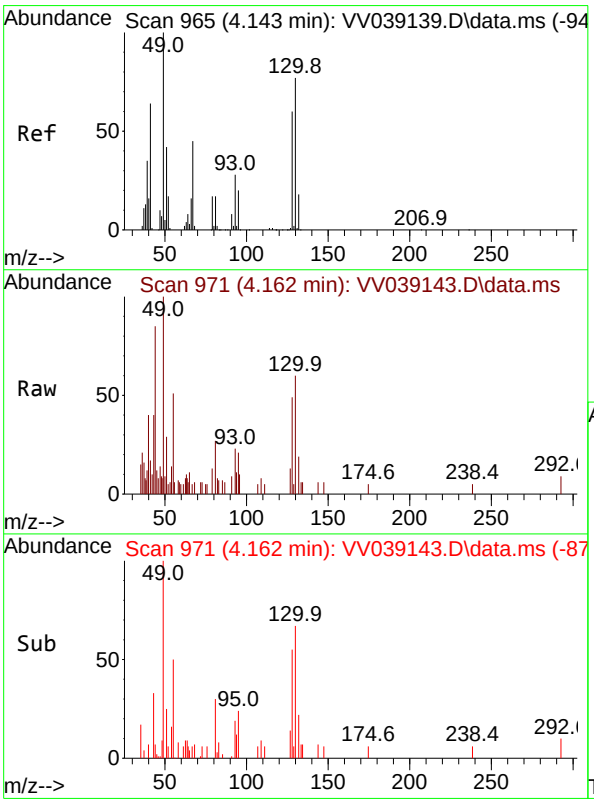
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 138.6 | 0.0 | 286.4 |
| 98 | 46.3 | 0.0 | 126.6 |

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

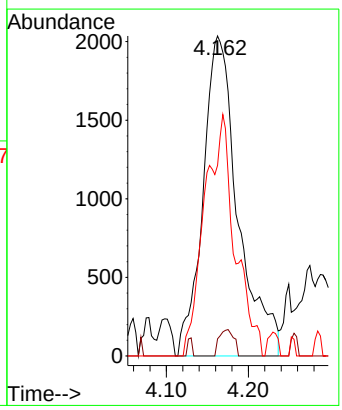


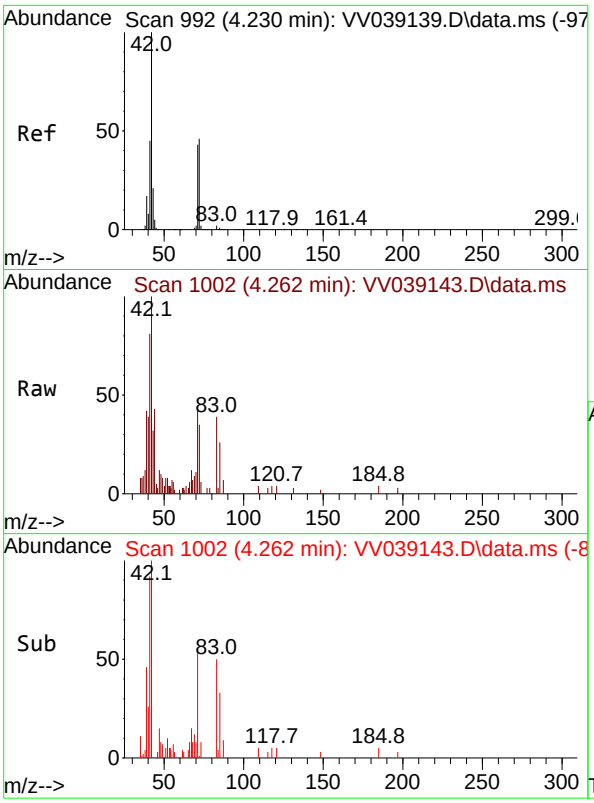




#28
Bromochloromethane
Concen: 1.068 ug/l
RT: 4.162 min Scan# 971
Delta R.T. 0.019 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 49 Resp: 6039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 3.5 | 0.0 | 4.2 |
| 130 | 34.4 | 60.2 | 90.2# |

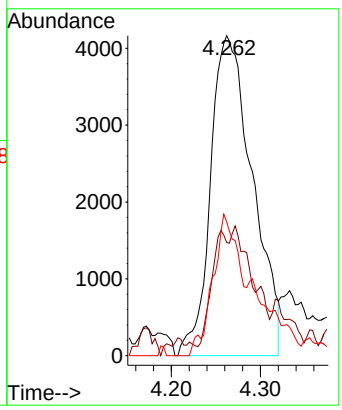





#29
Tetrahydrofuran
Concen: 4.619 ug/l
RT: 4.262 min Scan# 1
Delta R.T. 0.032 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 42 Resp: 1362

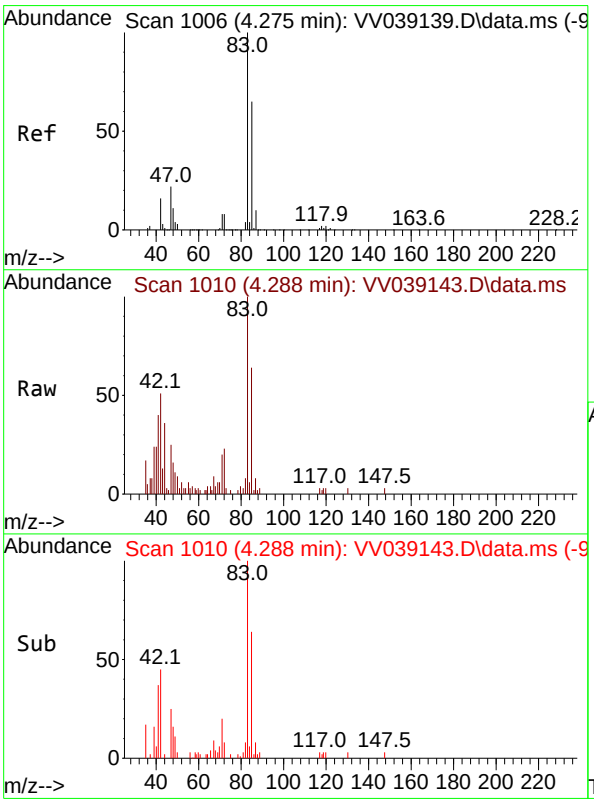
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 14.9 | 36.3 | 54.5# |
| 71 | 28.2 | 34.3 | 51.5# |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**

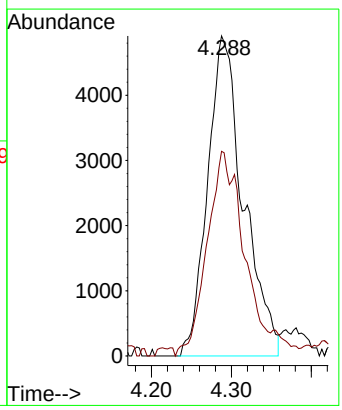
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

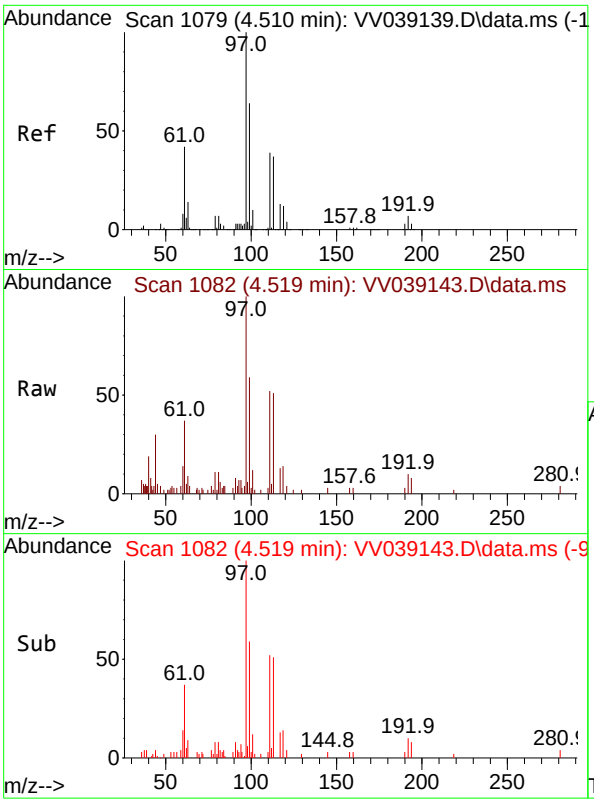



#30
Chloroform
Concen: 1.143 ug/l
RT: 4.288 min Scan# 1010
Delta R.T. 0.013 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 83 Resp: 15288

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 61.9 | 52.1 | 78.1 |

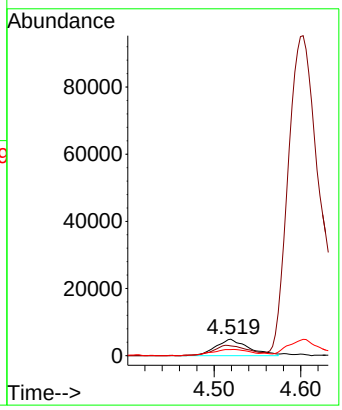





#32
1,1,1-Trichloroethane
Concen: 1.116 ug/l
RT: 4.519 min Scan# 1
Delta R.T. 0.010 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 97 Resp: 1292

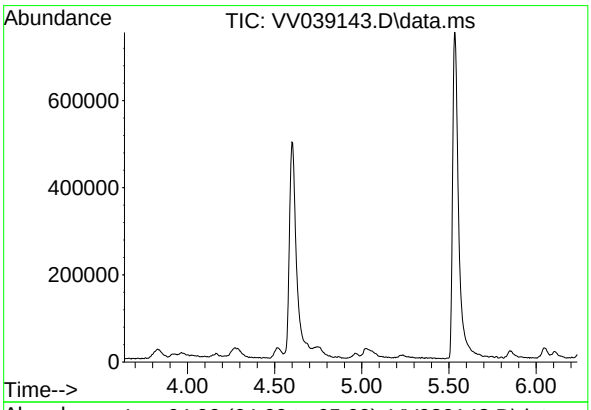
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 66.0 | 49.6 | 74.4 |
| 61 | 37.6 | 34.5 | 51.7 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

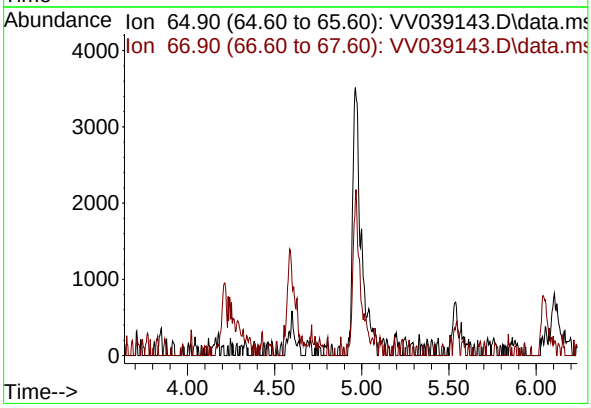


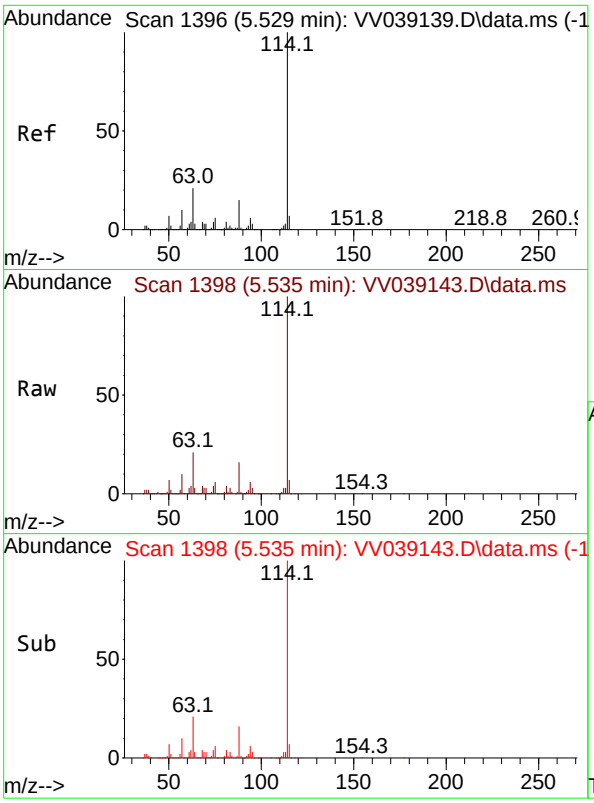

#33
1,2-Dichloroethane-d4
Concen: 0.000 ug/l
Expected RT: 4.94 min

Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 65

| Sig | Exp Ratio |
|---|---|
| 65 | 100 |
| 67 | 53.5 |






#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

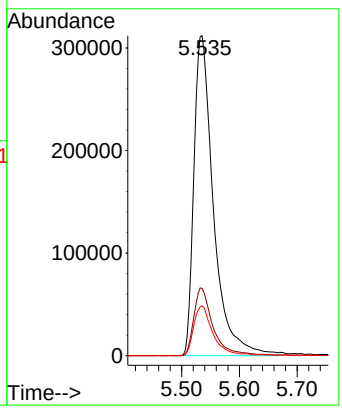
Tgt Ion:114 Resp: 73585

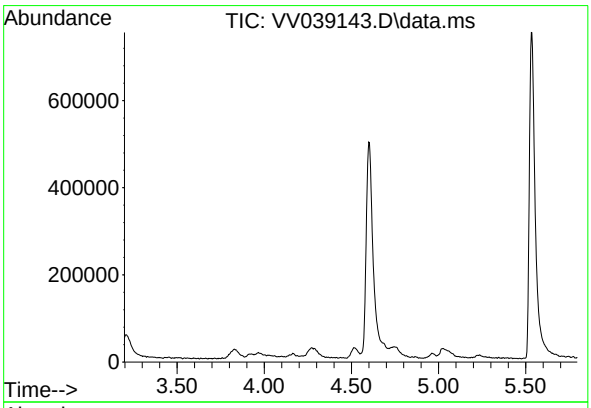
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.0 | 0.0 | 42.6 |
| 88 | 15.6 | 0.0 | 30.8 |

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025



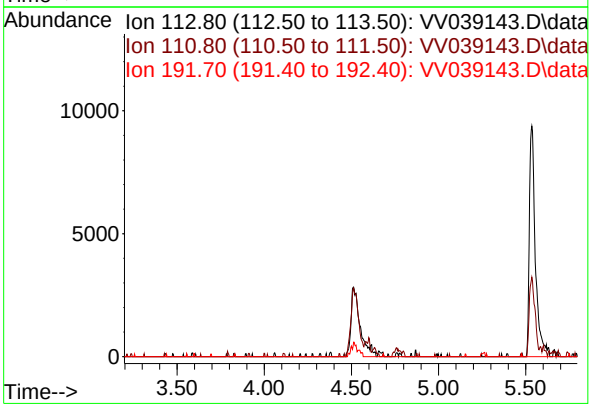



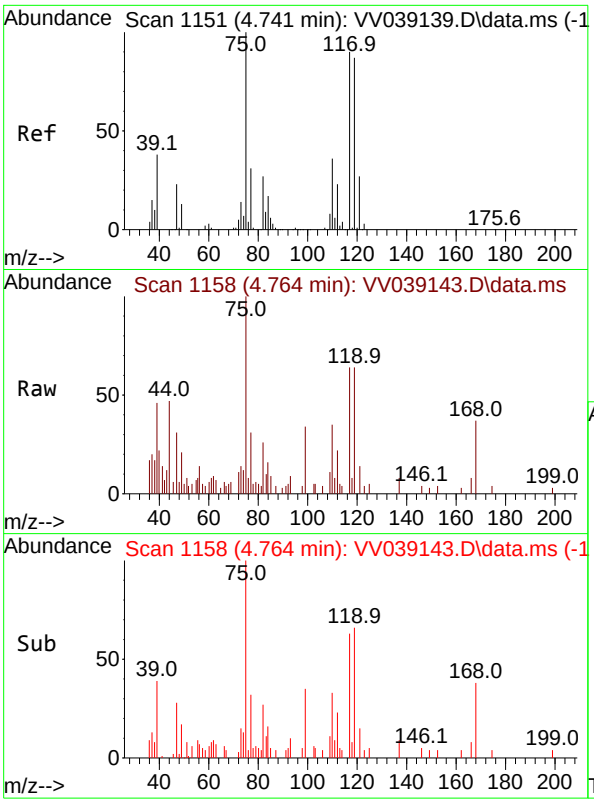

#35
Dibromofluoromethane
Concen: 0.000 ug/l
Expected RT: 4.50 min

Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 113

| Sig | Exp Ratio |
|---|---|
| 113 | 100 |
| 111 | 103.0 |
| 192 | 17.3 |

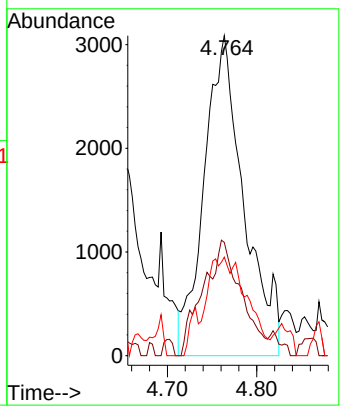





#36
1,1-Dichloropropene
Concen: 1.063 ug/l m
RT: 4.764 min Scan# 1
Delta R.T. 0.023 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 75 Resp: 957

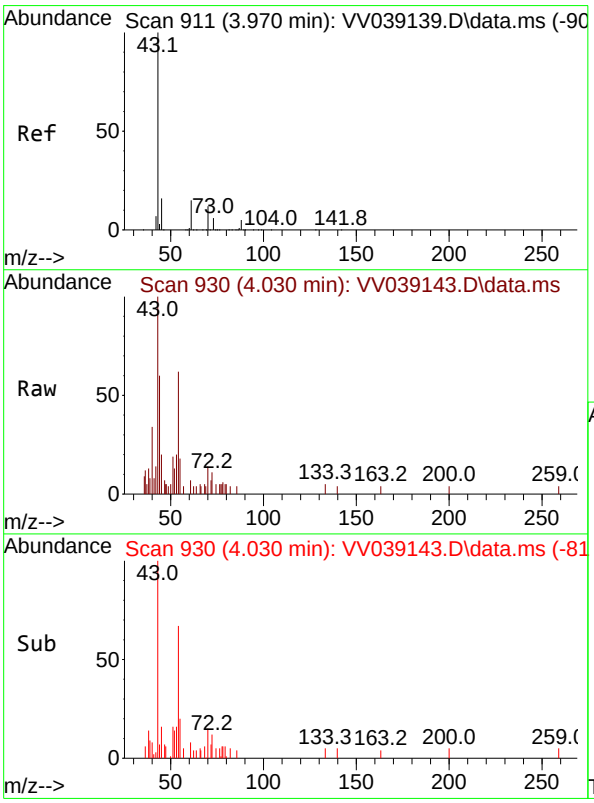
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 34.7 | 18.1 | 54.1 |
| 77 | 5.4 | 24.8 | 37.2# |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**

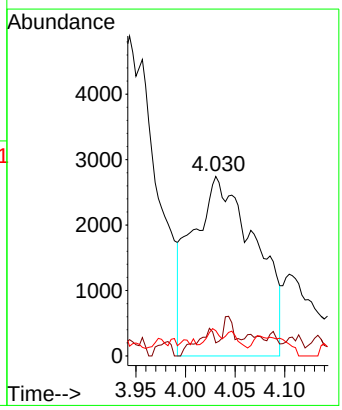
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

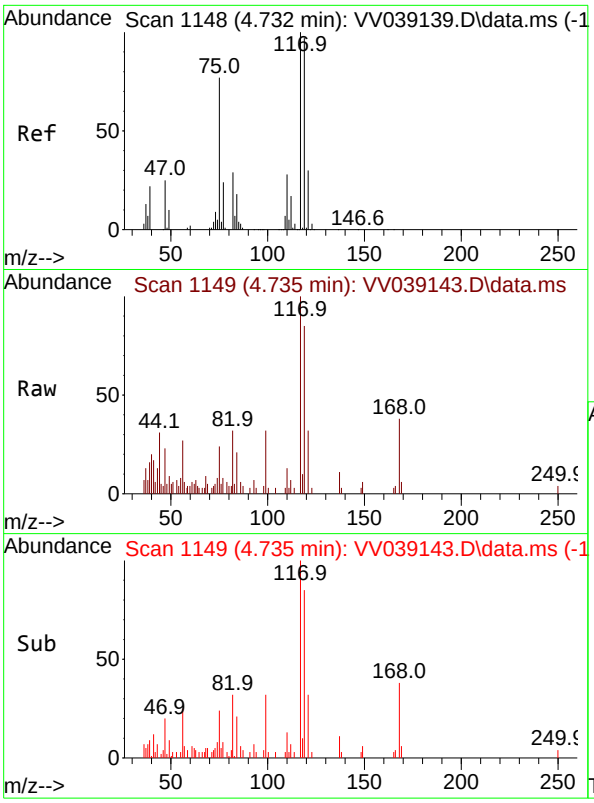



#37
Ethyl Acetate
Concen: 1.098 ug/l m
RT: 4.030 min Scan# 930
Delta R.T. 0.060 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 43 Resp: 12136

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 4.2 | 10.3 | 15.5# |
| 70 | 1.6 | 8.0 | 12.0# |

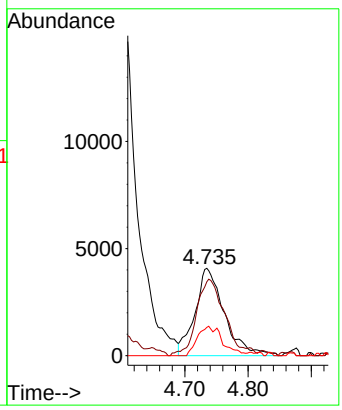





#38
Carbon Tetrachloride
Concen: 1.207 ug/l m
RT: 4.735 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:117 Resp: 1309

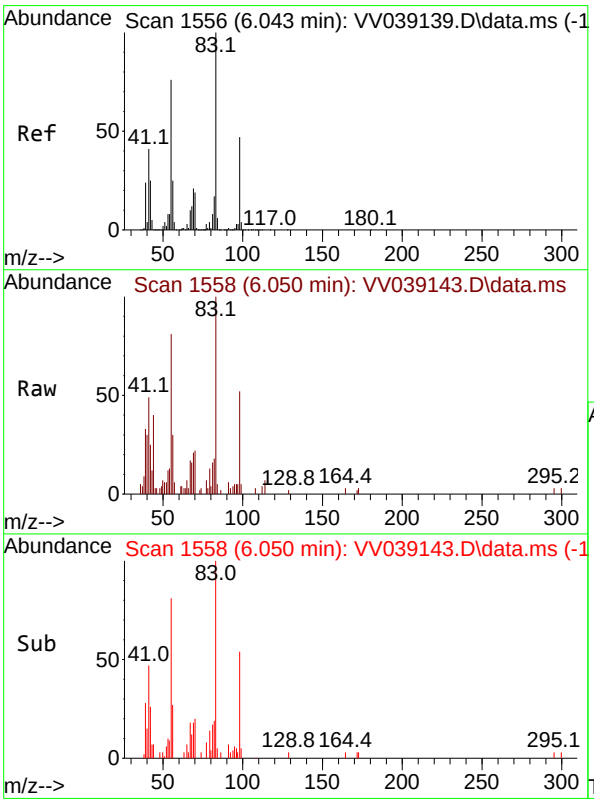
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 84.6 | 77.2 | 115.8 |
| 121 | 32.4 | 24.2 | 36.2 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

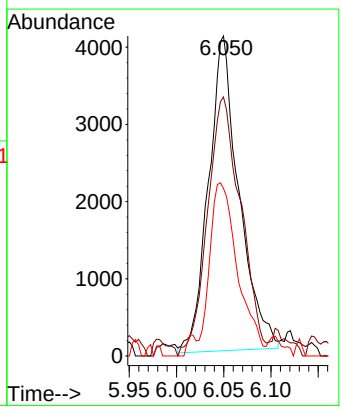
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

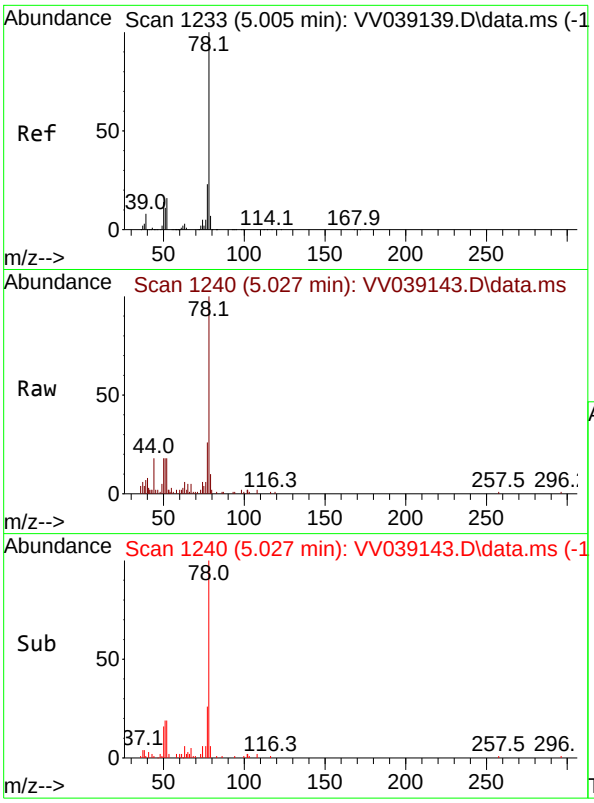



#39
Methylcyclohexane
Concen: 0.848 ug/l
RT: 6.050 min Scan# 1558
Delta R.T. 0.007 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 83 Resp: 9159

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 83.0 | 60.5 | 90.7 |
| 98 | 53.7 | 37.8 | 56.6 |






#40
Benzene
Concen: 0.978 ug/l
RT: 5.027 min Scan# 1
Delta R.T. 0.022 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

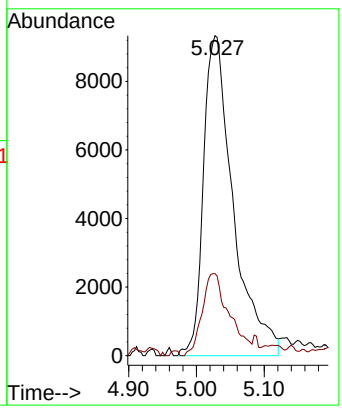
Tgt Ion: 78 Resp: 2848

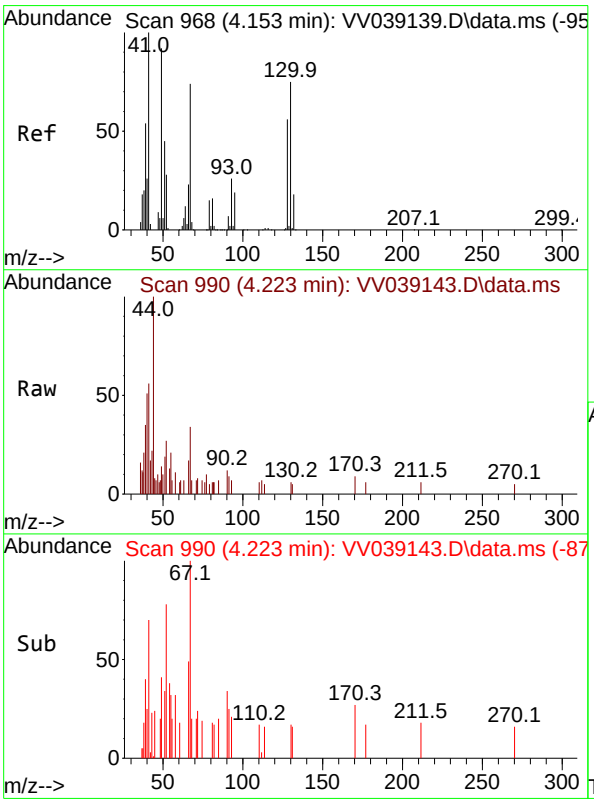
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.3 | 18.7 | 28.1 |

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

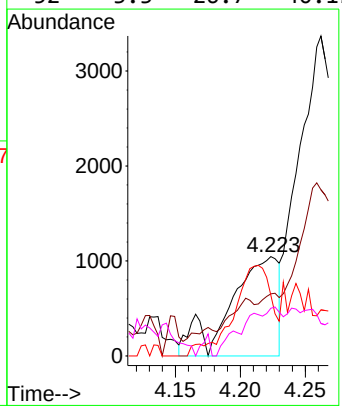


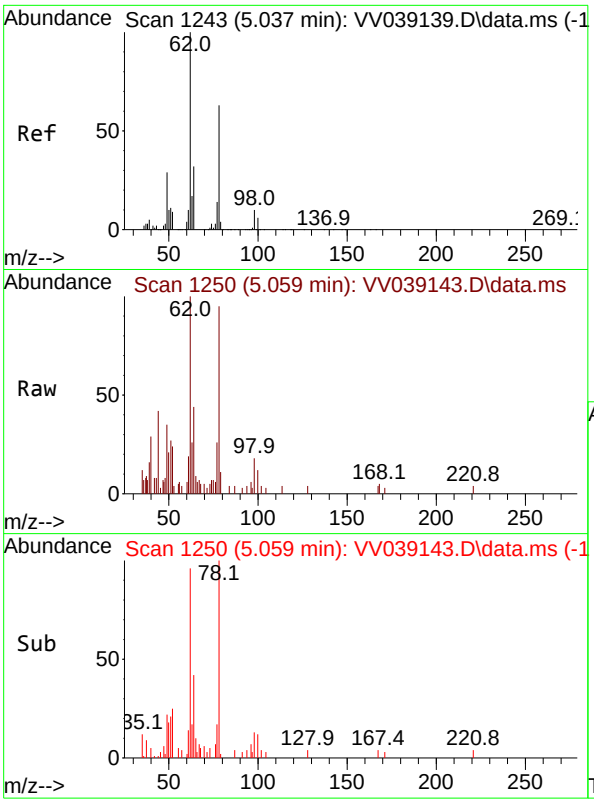




#41
Methacrylonitrile
Concen: 2.427 ug/l m
RT: 4.223 min Scan# 990
Delta R.T. 0.070 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 41 Resp: 2717

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 5.4 | 42.2 | 63.2# |
| 67 | 0.0 | 67.9 | 101.9# |
| 52 | 3.3 | 26.7 | 40.1# |






#42
1,2-Dichloroethane
Concen: 1.067 ug/l
RT: 5.059 min Scan# 1
Delta R.T. 0.022 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

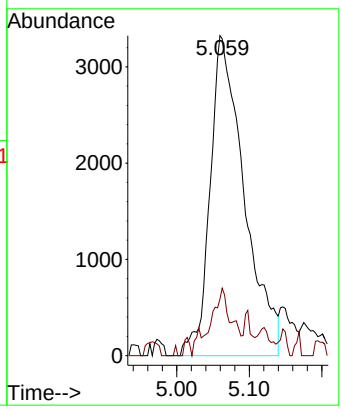
Tgt Ion: 62 Resp: 1089

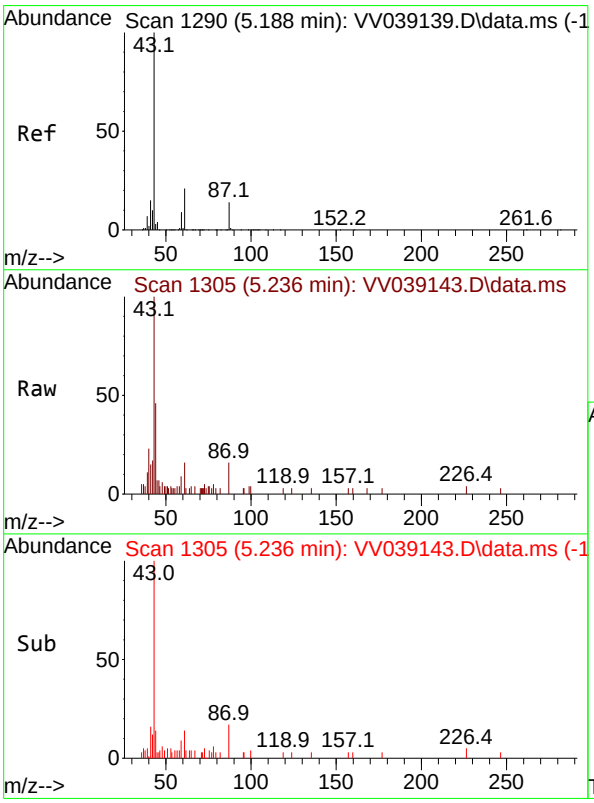
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 11.5 | 0.0 | 19.2 |

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

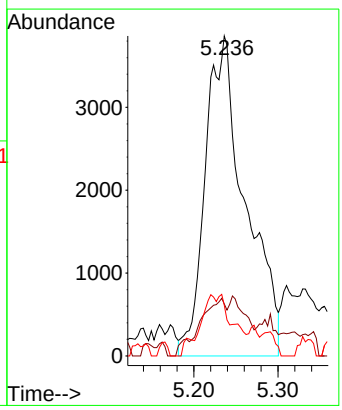


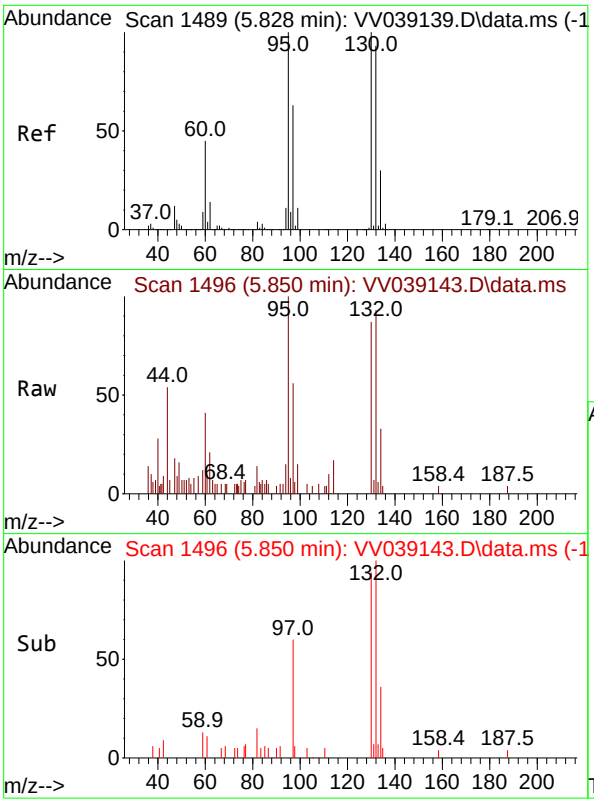




#43
Isopropyl Acetate
Concen: 0.840 ug/l m
RT: 5.236 min Scan# 1305
Delta R.T. 0.048 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 43 Resp: 12786

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 7.1 | 15.9 | 23.9# |
| 87 | 4.4 | 11.0 | 16.6# |






#44
Trichloroethene
Concen: 0.953 ug/l
RT: 5.850 min Scan# 14
Delta R.T. 0.022 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

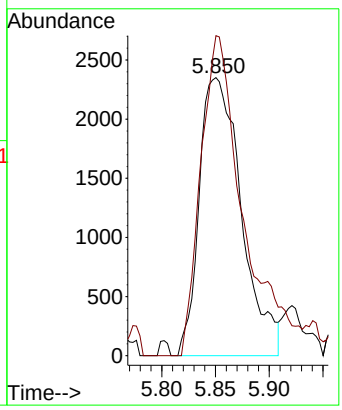
Tgt Ion:130 Resp: 640

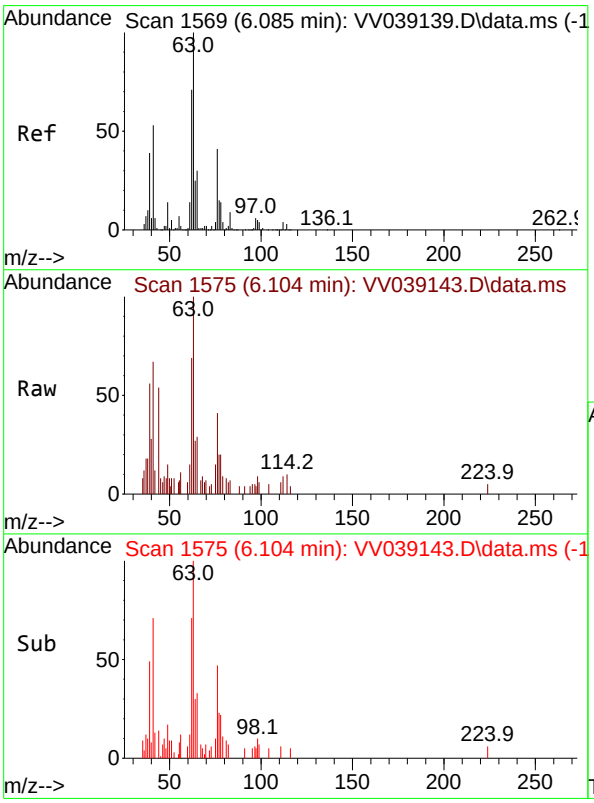
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 115.1 | 0.0 | 199.2 |

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

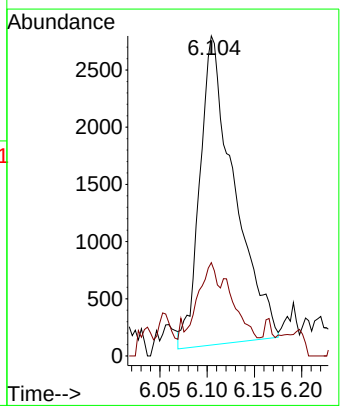


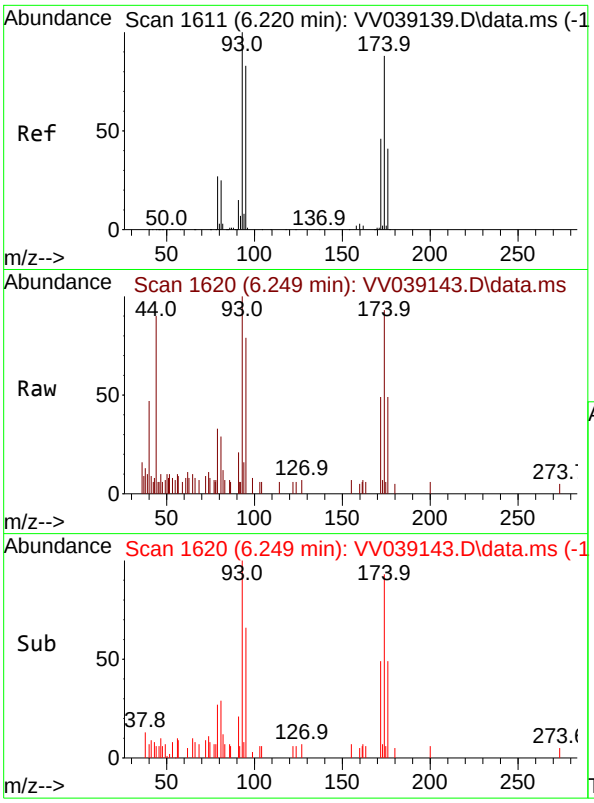




#45
1,2-Dichloropropane
Concen: 0.945 ug/l
RT: 6.104 min Scan# 1575
Delta R.T. 0.019 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 63 Resp: 6838

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 25.8 | 23.7 | 35.5 |

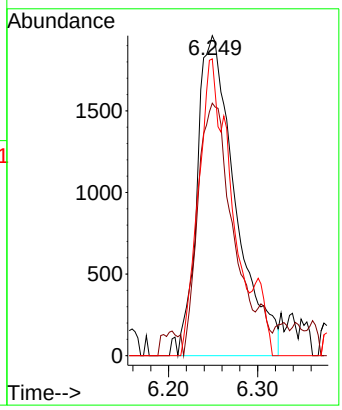





#46
Dibromomethane
Concen: 1.053 ug/l
RT: 6.249 min Scan# 1
Delta R.T. 0.029 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 93 Resp: 583

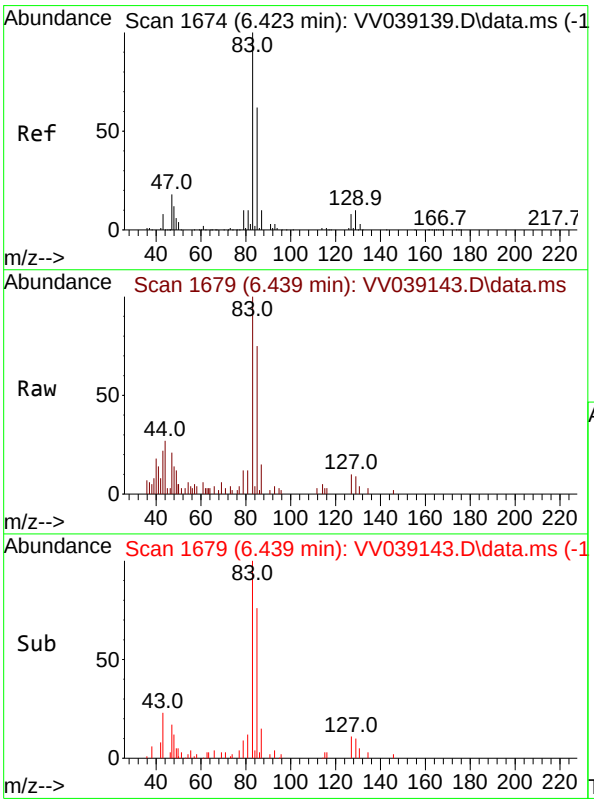
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 70.8 | 65.5 | 98.3 |
| 174 | 77.3 | 69.0 | 103.4 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**

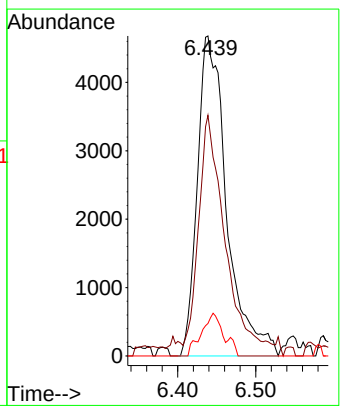
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

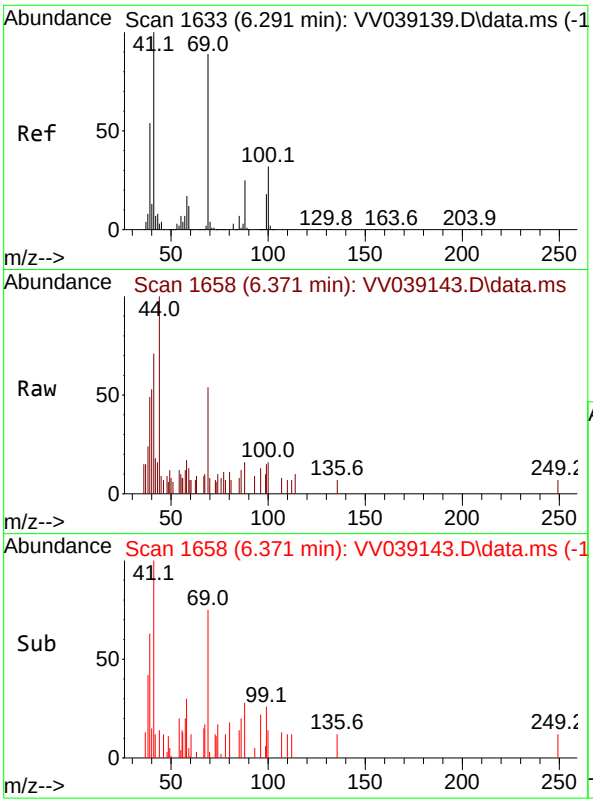



#47
Bromodichloromethane
Concen: 1.066 ug/l
RT: 6.439 min Scan# 1679
Delta R.T. 0.016 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 83 Resp: 12206

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 70.7 | 49.7 | 74.5 |
| 127 | 10.2 | 6.6 | 9.8# |






#48
Methyl methacrylate
Concen: 1.038 ug/l m
RT: 6.371 min Scan# 1
Delta R.T. 0.080 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

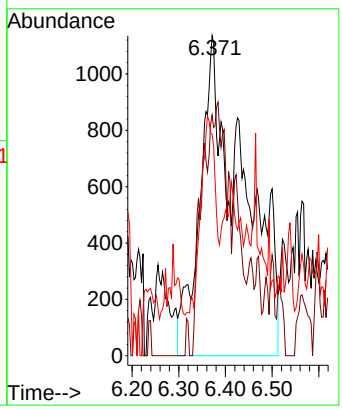
Tgt Ion: 41 Resp: 723

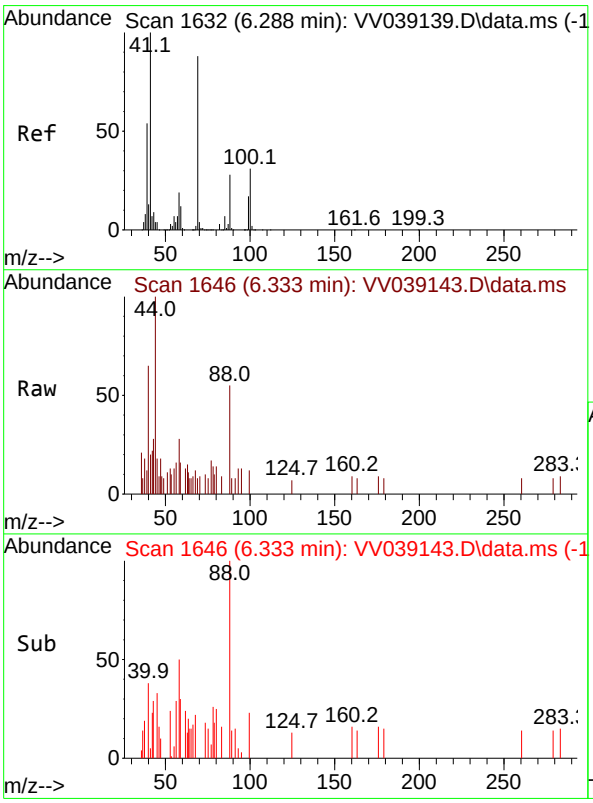
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 0.0 | 72.4 | 108.6# |
| 39 | 0.0 | 42.5 | 63.7# |

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

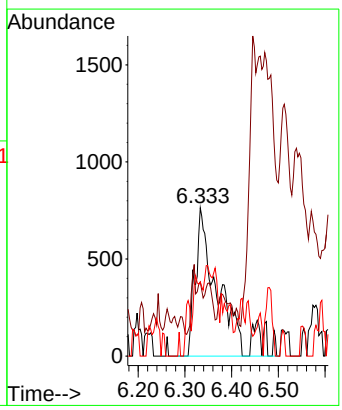


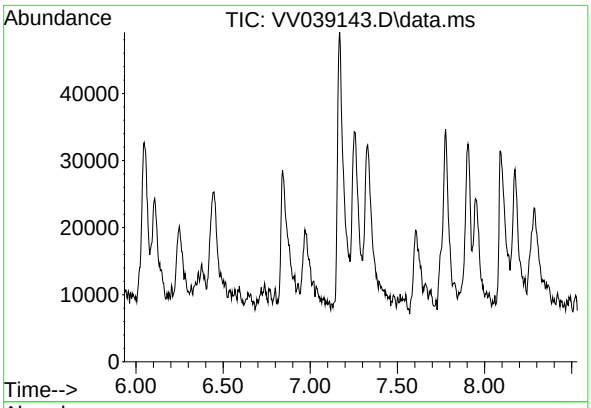




#49
1,4-Dioxane
Concen: 24.855 ug/l m
RT: 6.333 min Scan# 1646
Delta R.T. 0.045 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 88 Resp: 2721

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 9.6 | 25.1 | 37.7# |
| 58 | 12.8 | 53.6 | 80.4# |






#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 7.23 min

Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

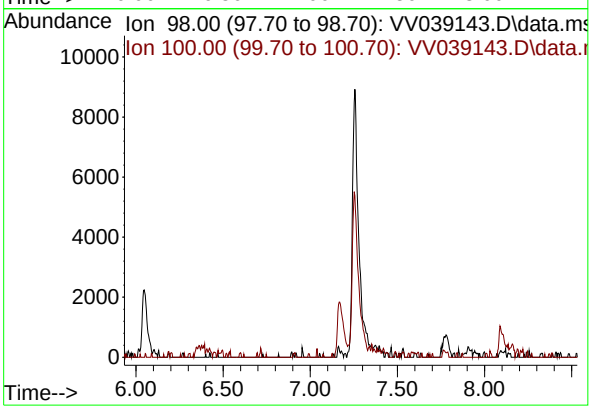
Tgt Ion: 98

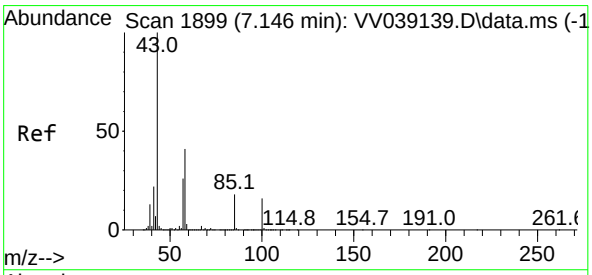
| Sig | Exp Ratio |
|---|---|
| 98 | 100 |
| 100 | 65.2 |

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

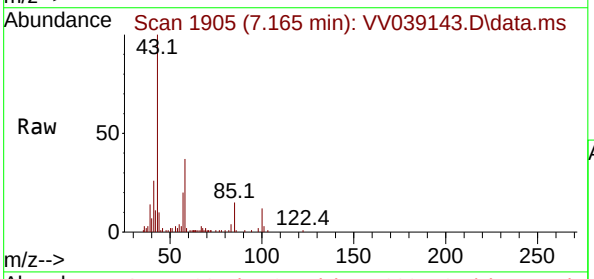


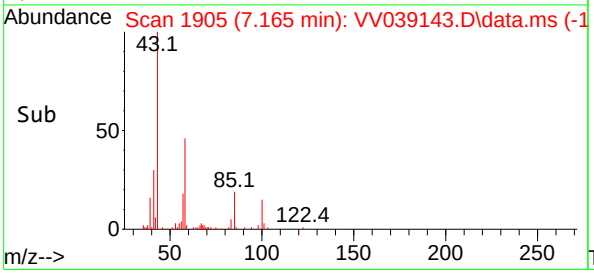



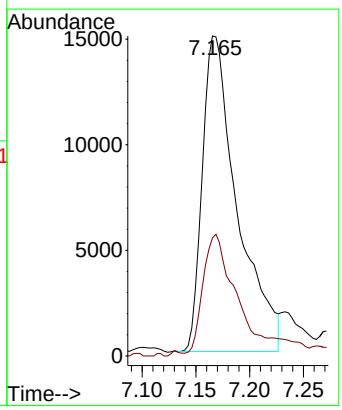

#51
4-Methyl-2-Pentanone
Concen: 3.472 ug/l
RT: 7.165 min Scan# 1905
Delta R.T. 0.019 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

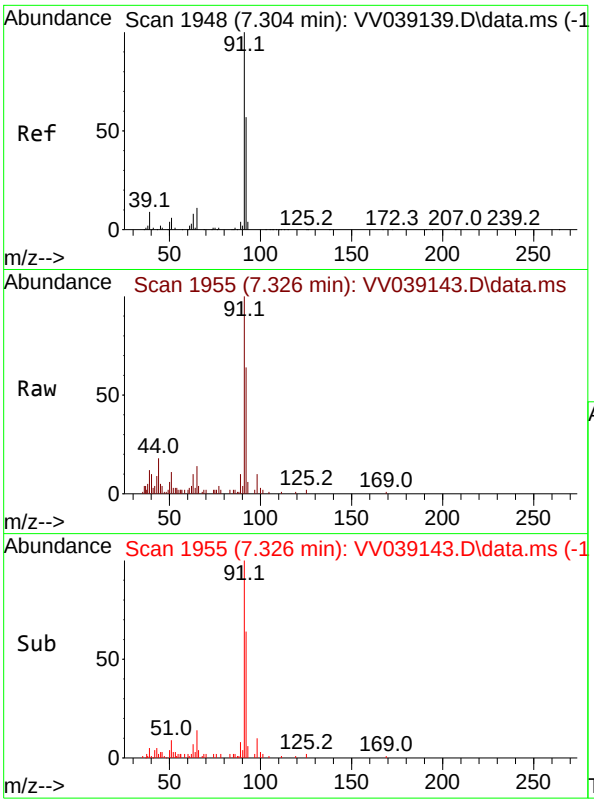
Tgt Ion: 43 Resp: 33797

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 38.1 | 32.3 | 48.5 |



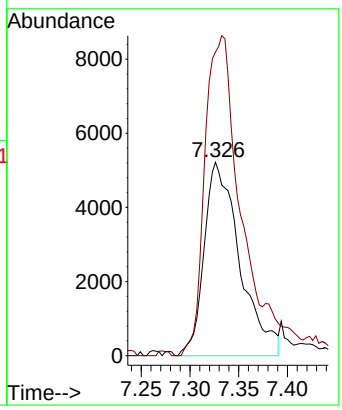






#52
Toluene
Concen: 0.786 ug/l
RT: 7.326 min Scan# 1
Delta R.T. 0.022 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 92 Resp: 1326

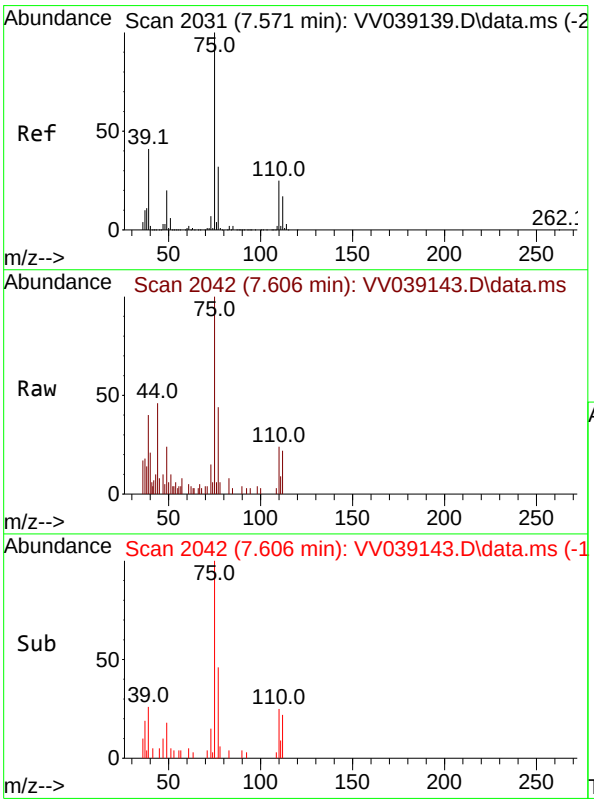
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 156.2 | 139.2 | 208.8 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

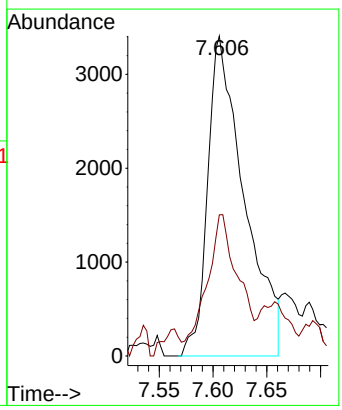
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

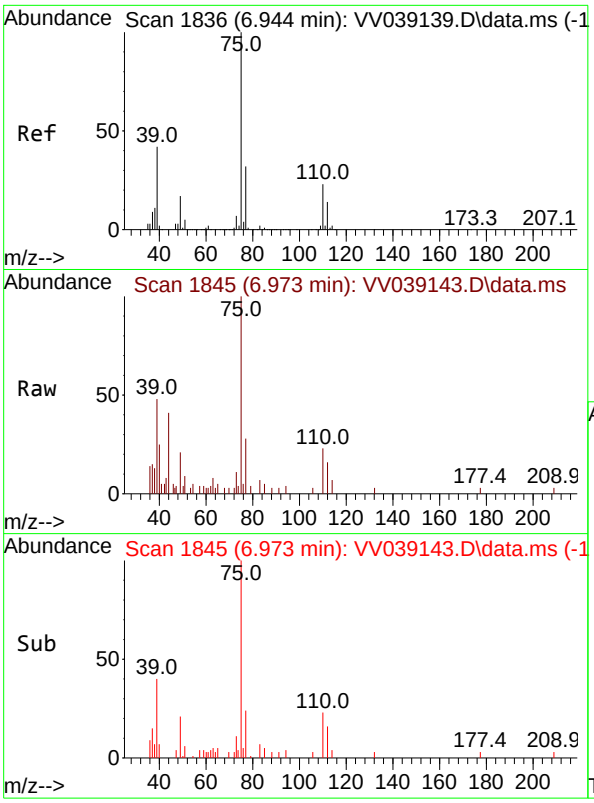



#53
t-1,3-Dichloropropene
Concen: 0.807 ug/l
RT: 7.606 min Scan# 2042
Delta R.T. 0.035 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 75 Resp: 8060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 38.0 | 25.9 | 38.9 |

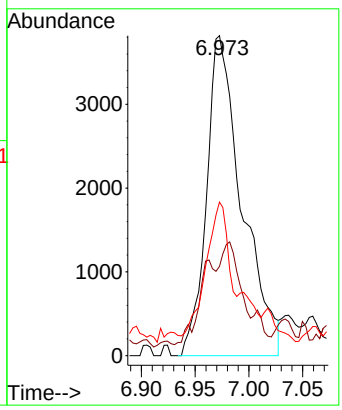





#54
cis-1,3-Dichloropropene
Concen: 0.794 ug/l
RT: 6.973 min Scan# 1
Delta R.T. 0.029 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 75 Resp: 875

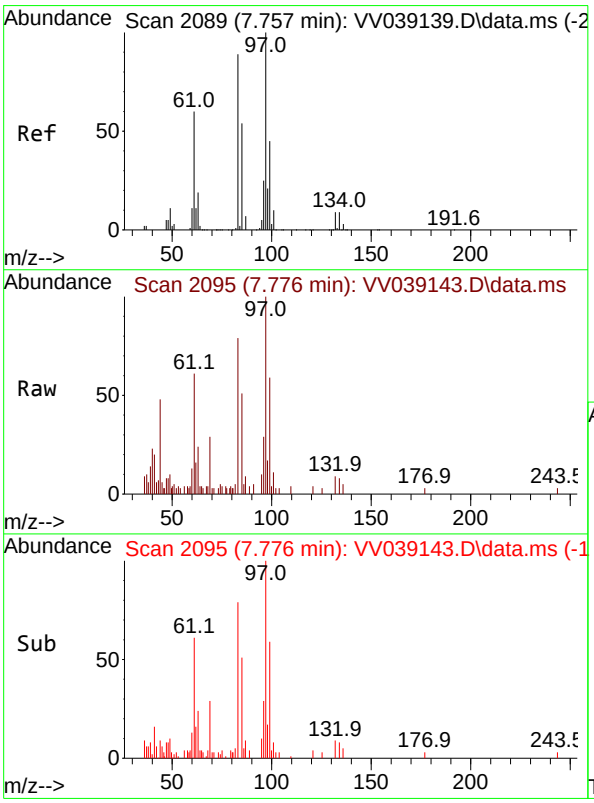
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 23.8 | 25.5 | 38.3 |
| 39 | 41.7 | 33.8 | 50.6 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**

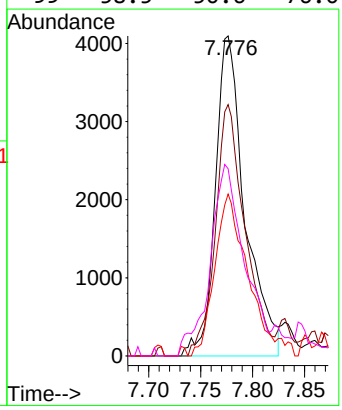
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

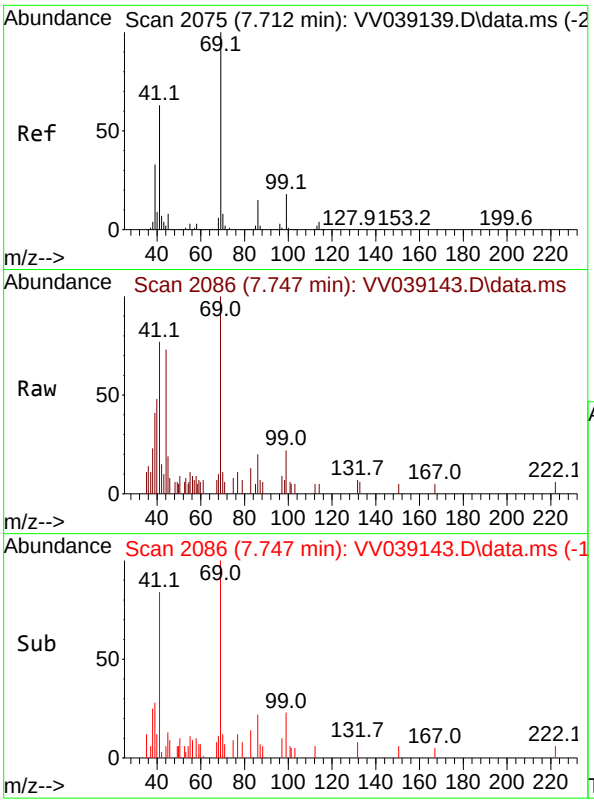



#55
1,1,2-Trichloroethane
Concen: 1.075 ug/l
RT: 7.776 min Scan# 2095
Delta R.T. 0.019 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 97 Resp: 8140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 78.6 | 71.1 | 106.7 |
| 85 | 50.6 | 44.6 | 67.0 |
| 99 | 58.5 | 50.6 | 76.0 |

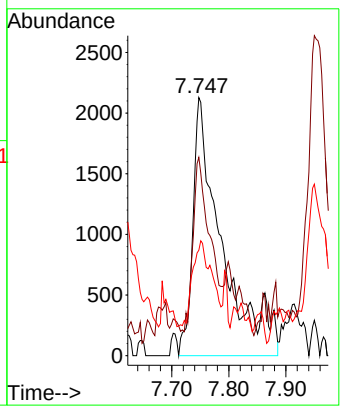





#56
Ethyl methacrylate
Concen: 0.829 ug/l m
RT: 7.747 min Scan# 2
Delta R.T. 0.035 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 69 Resp: 745

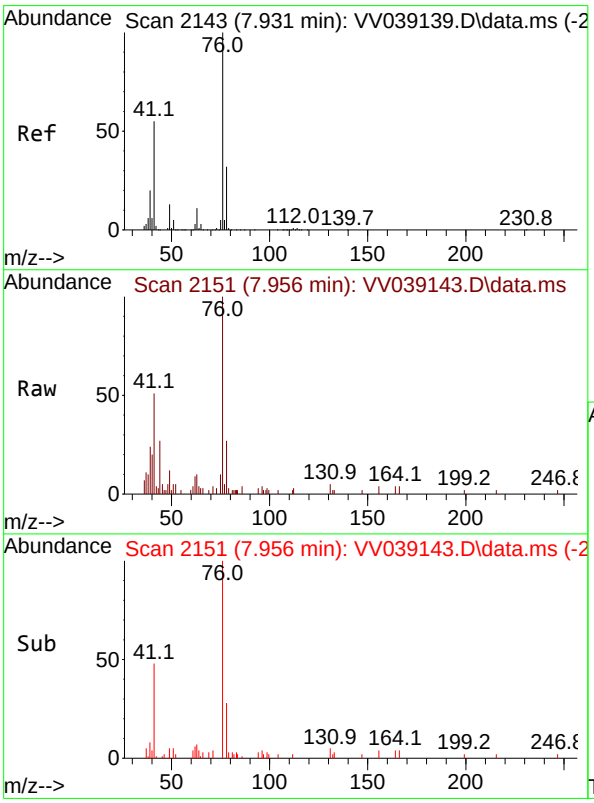
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 40.0 | 50.7 | 76.1# |
| 39 | 21.4 | 26.0 | 39.0# |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**

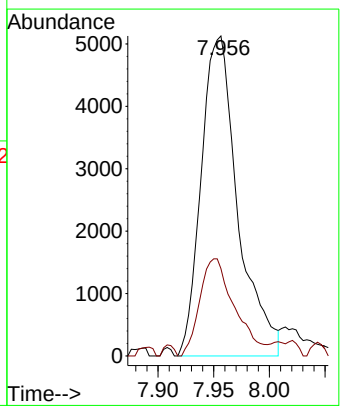
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

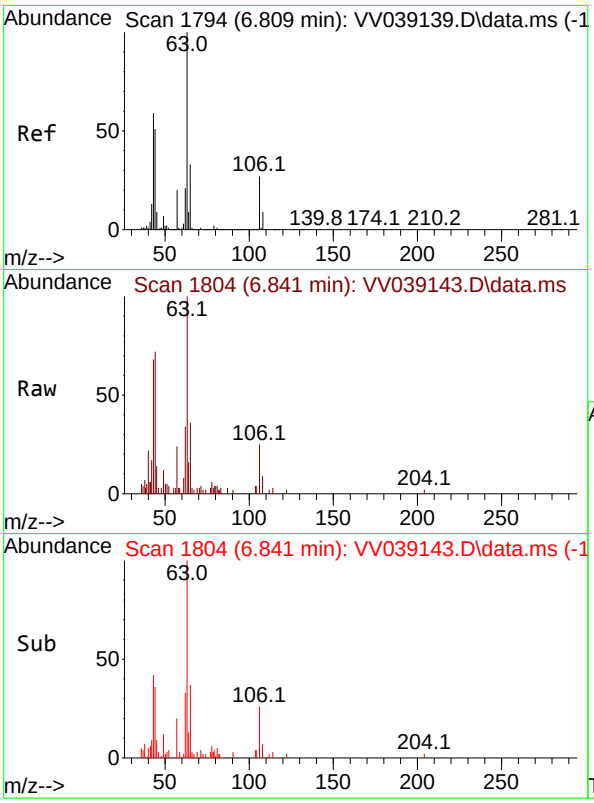



#57
1,3-Dichloropropane
Concen: 0.982 ug/l
RT: 7.956 min Scan# 2151
Delta R.T. 0.025 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 76 Resp: 11732

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 29.1 | 26.1 | 39.1 |






#58
2-Chloroethyl Vinyl ether
Concen: 11.289 ug/l
RT: 6.841 min Scan# 1
Delta R.T. 0.032 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

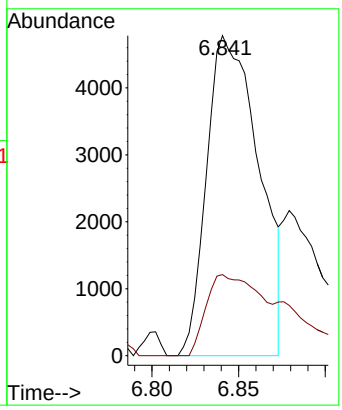
Tgt Ion: 63 Resp: 1001

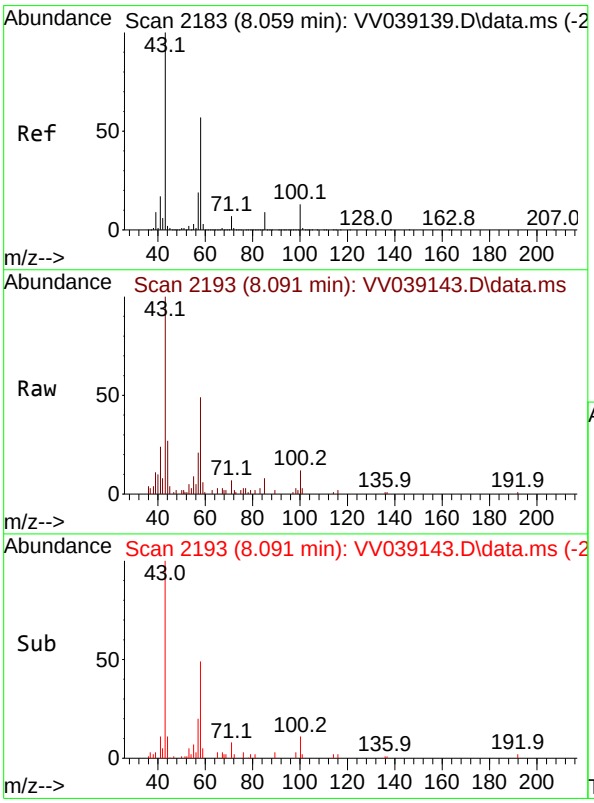
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 26.4 | 22.1 | 33.1 |

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

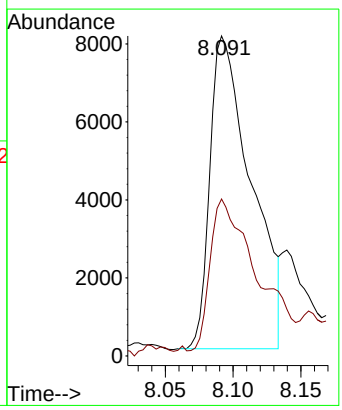


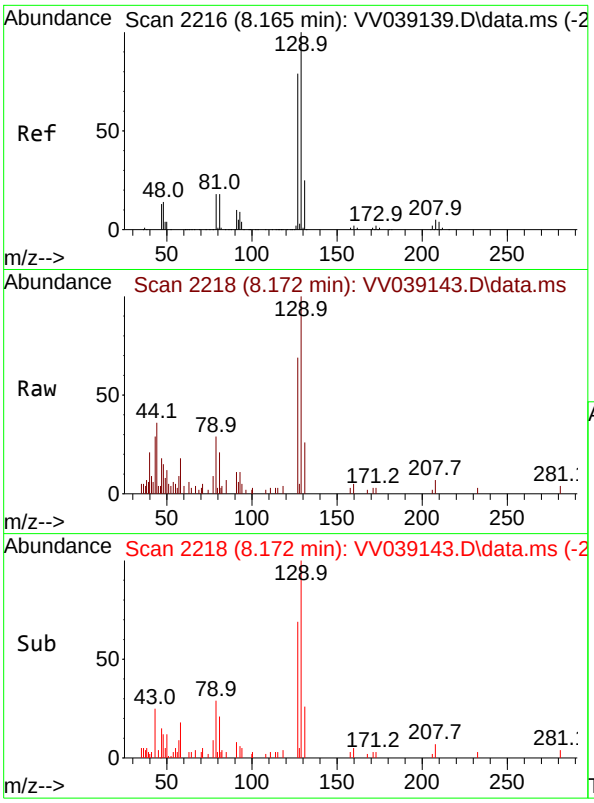




#59
2-Hexanone
Concen: 4.307 ug/l
RT: 8.091 min Scan# 2193
Delta R.T. 0.032 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 43 Resp: 17015

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 55.1 | 28.3 | 85.0 |

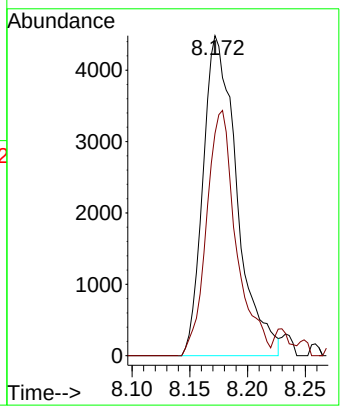





#60
Dibromochloromethane
Concen: 1.057 ug/l
RT: 8.172 min Scan# 2
Delta R.T. 0.006 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:129 Resp: 912

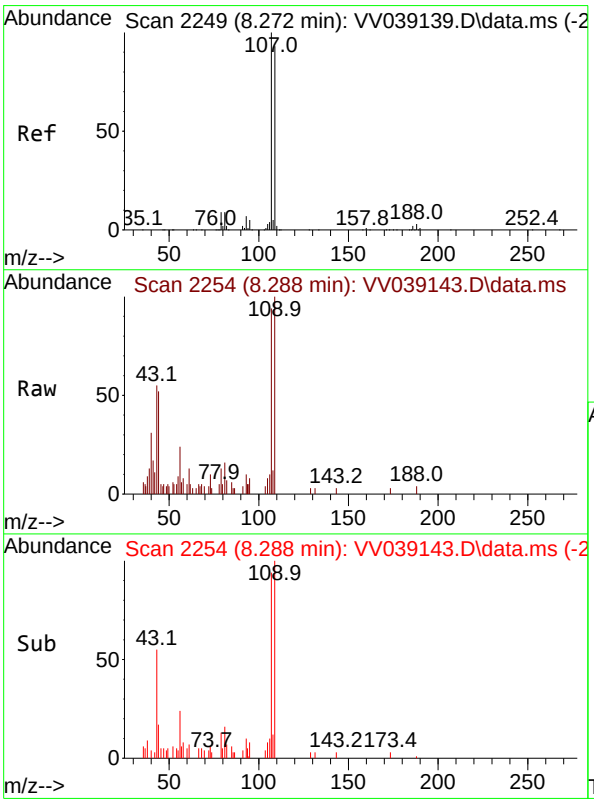
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 67.4 | 39.3 | 117.9 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

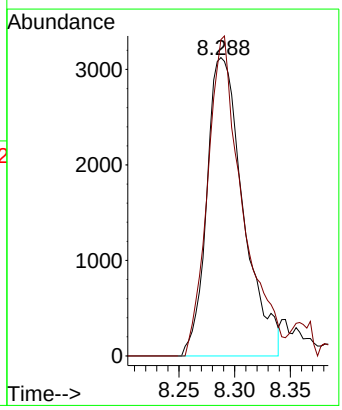
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

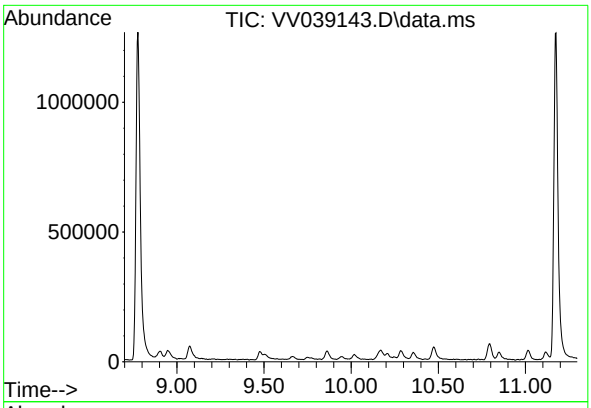



#61
1,2-Dibromoethane
Concen: 0.921 ug/l
RT: 8.288 min Scan# 2254
Delta R.T. 0.016 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:107 Resp: 7129

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 102.8 | 74.6 | 112.0 |






#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
Expected RT: 10.00 min

Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

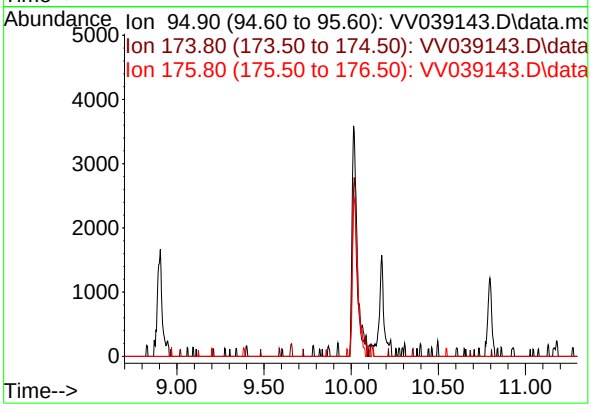
Tgt Ion: 95

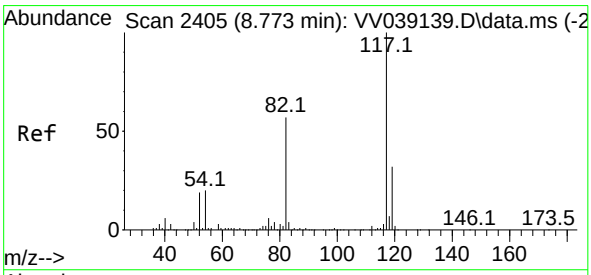
| Sig | Exp Ratio |
|---|---|
| 95 | 100 |
| 174 | 75.2 |
| 176 | 72.1 |

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

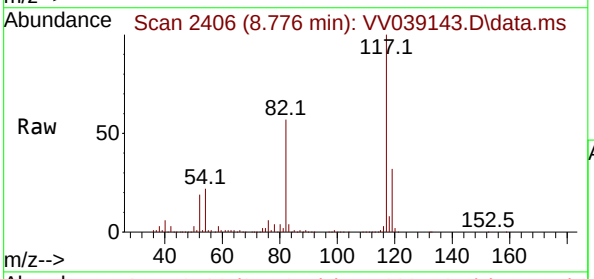


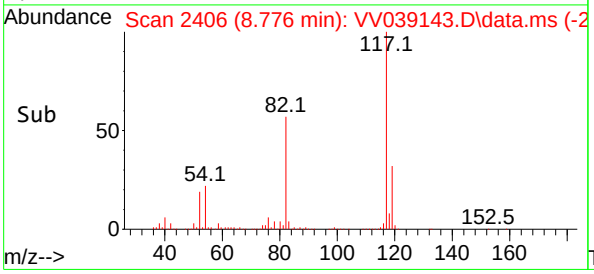



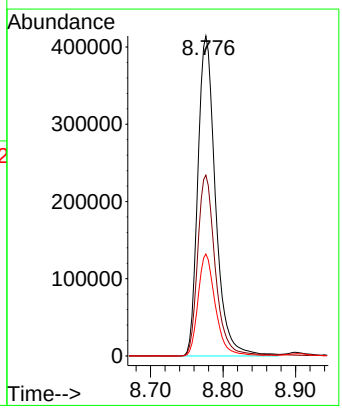

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

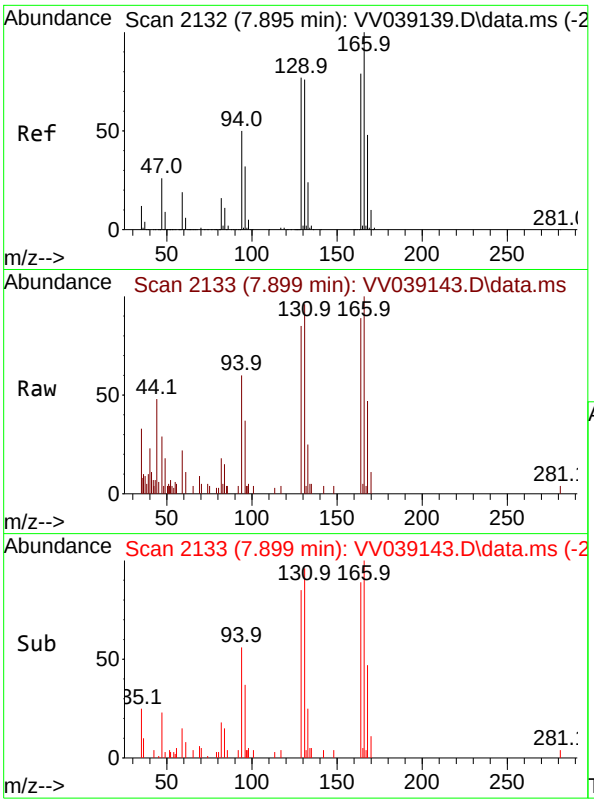
Tgt Ion:117 Resp: 700418

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 56.5 | 45.4 | 68.2 |
| 119 | 31.8 | 25.6 | 38.4 |



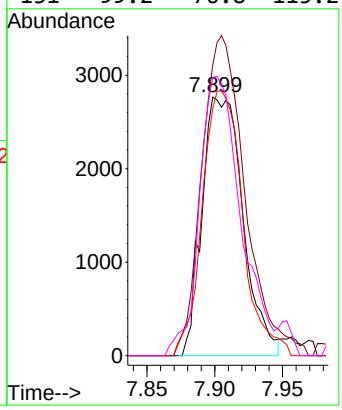






#64
Tetrachloroethene
Concen: 0.991 ug/l
RT: 7.899 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:164 Resp: 581

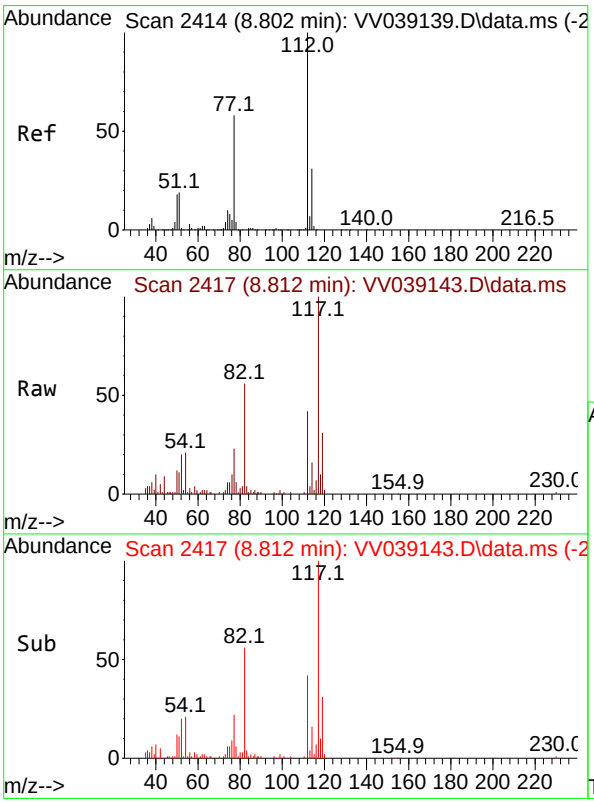
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 107.6 | 101.6 | 152.4 |
| 129 | 91.4 | 78.5 | 117.7 |
| 131 | 99.2 | 76.8 | 115.2 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

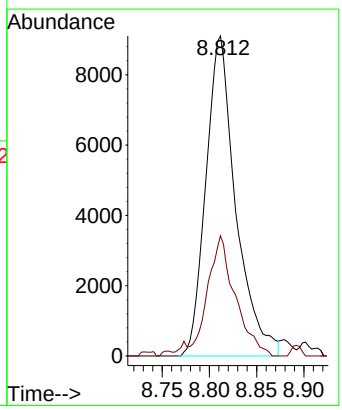
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

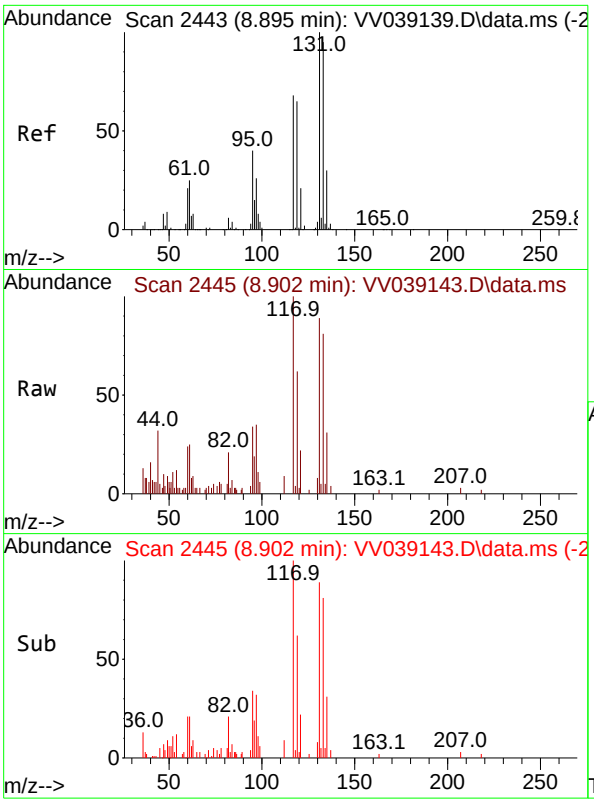



#65
Chlorobenzene
Concen: 1.025 ug/l
RT: 8.812 min Scan# 2417
Delta R.T. 0.010 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:112 Resp: 20007

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 37.5 | 24.6 | 37.0# |






#66
1,1,1,2-Tetrachloroethane
Concen: 1.079 ug/l
RT: 8.902 min Scan# 24
Delta R.T. 0.006 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

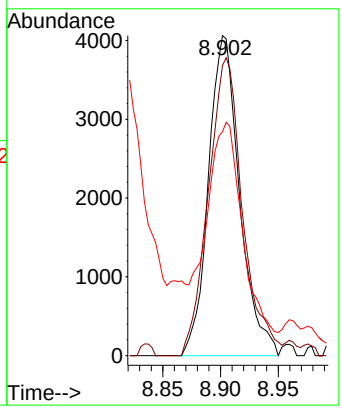
Tgt Ion:131 Resp: 760

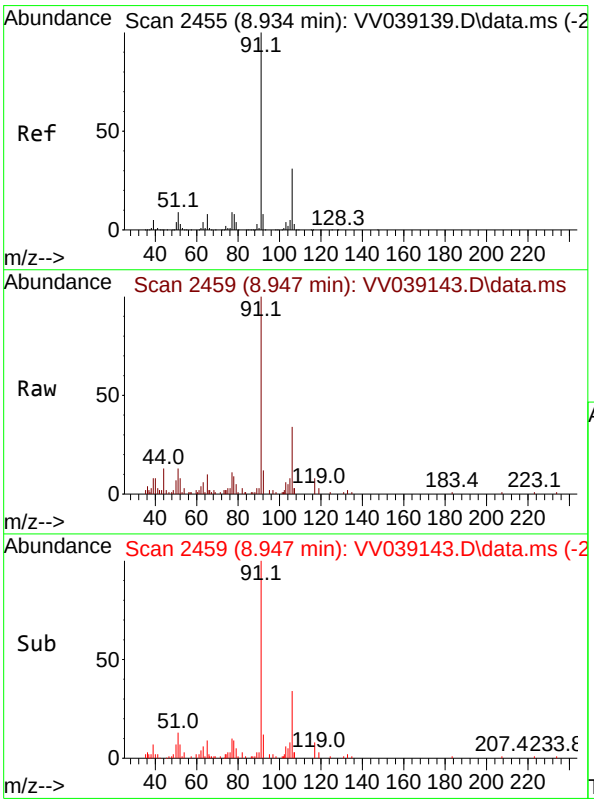
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 102.5 | 47.3 | 141.8 |
| 119 | 0.0 | 33.3 | 99.8 |

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

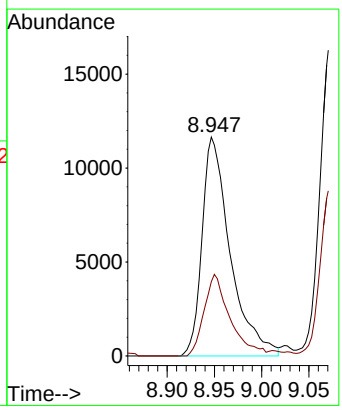


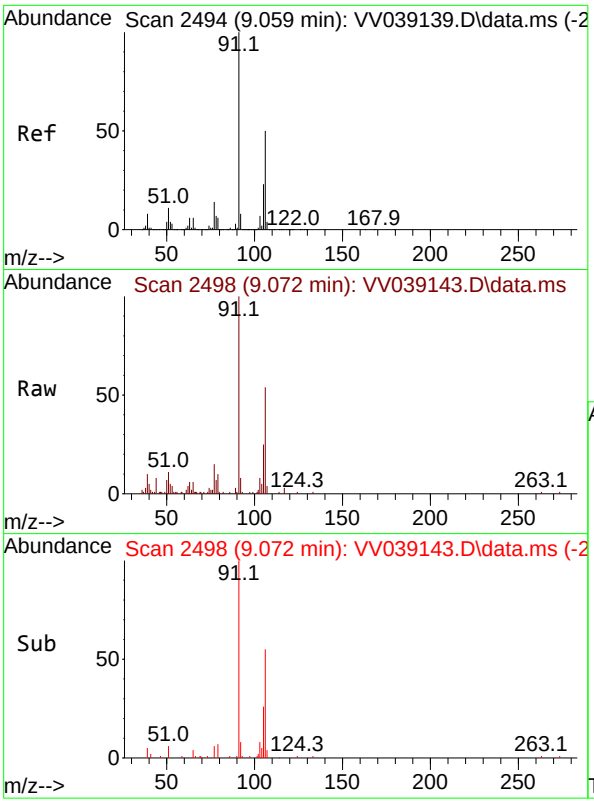




#67
Ethyl Benzene
Concen: 0.818 ug/l
RT: 8.947 min Scan# 2459
Delta R.T. 0.013 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 91 Resp: 24171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 33.9 | 24.6 | 37.0 |






#68
m/p-Xylenes
Concen: 1.425 ug/l
RT: 9.072 min Scan# 24
Delta R.T. 0.013 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

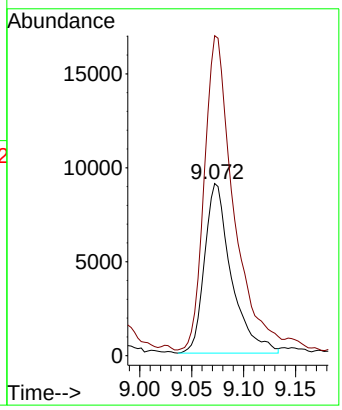
Tgt Ion:106 Resp: 1623

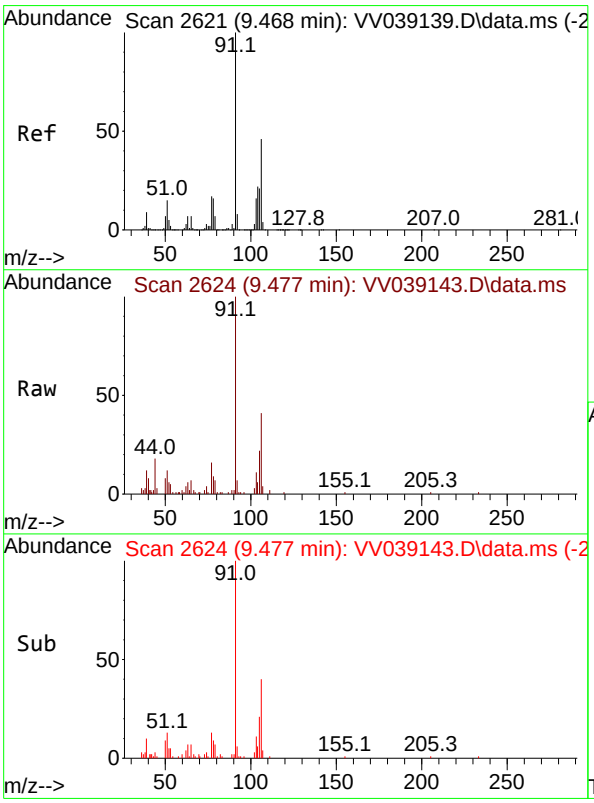
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 200.5 | 162.5 | 243.7 |

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

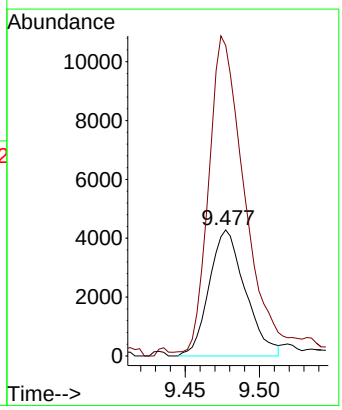


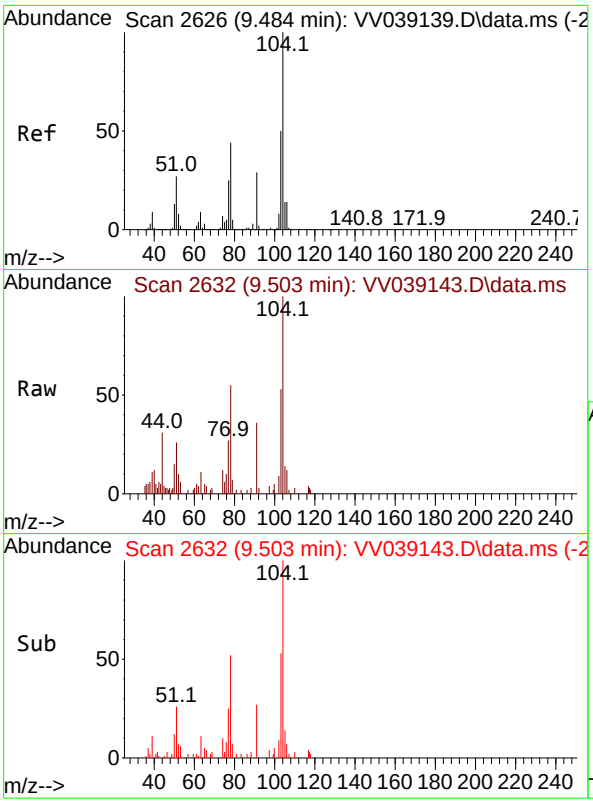




#69
o-Xylene
Concen: 0.718 ug/l
RT: 9.477 min Scan# 2624
Delta R.T. 0.010 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:106 Resp: 7250

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 252.4 | 109.1 | 327.3 |






#70
Styrene
Concen: 2.083 ug/l
RT: 9.503 min Scan# 2
Delta R.T. 0.019 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

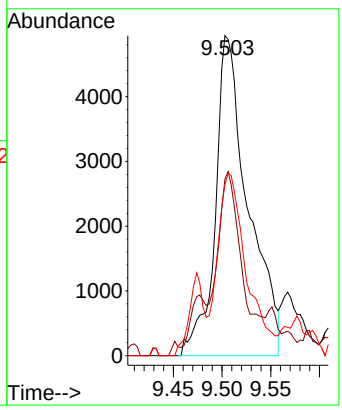
Tgt Ion:104 Resp: 1159

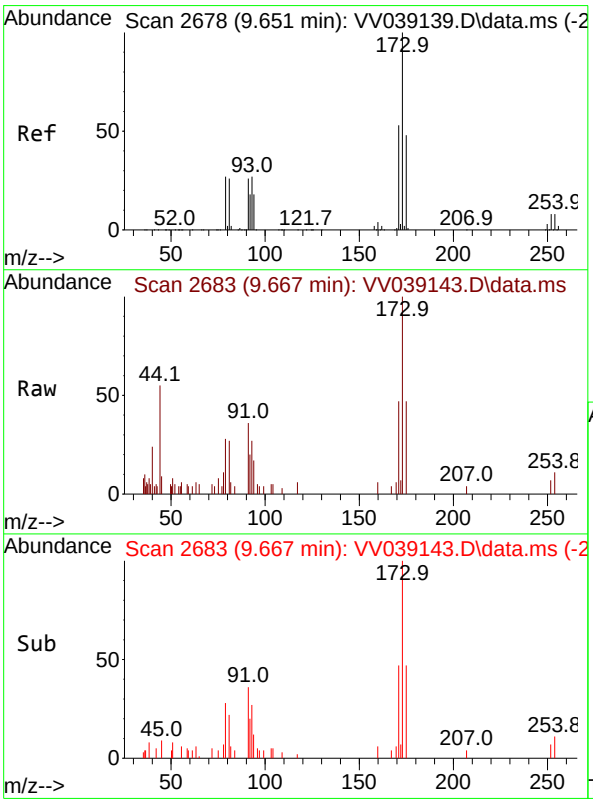
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 31.2 | 39.8 | 59.6# |
| 103 | 43.9 | 43.4 | 65.2 |

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

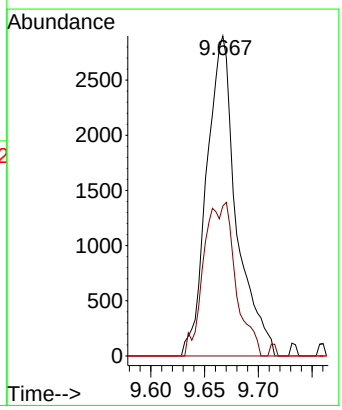


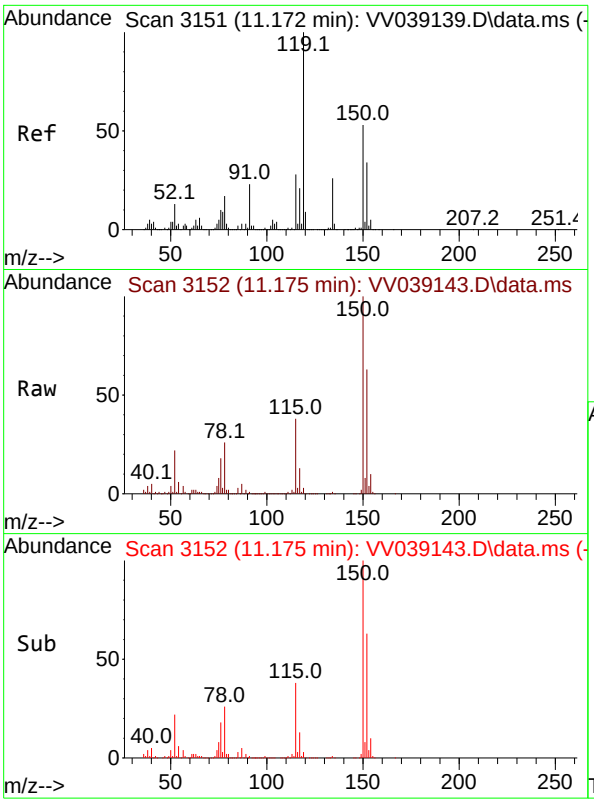




#71
Bromoform
Concen: 1.009 ug/l
RT: 9.667 min Scan# 2683
Delta R.T. 0.016 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:173 Resp: 5558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 51.7 | 23.9 | 71.7 |
| 254 | 0.0 | 0.1 | 0.1# |






#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

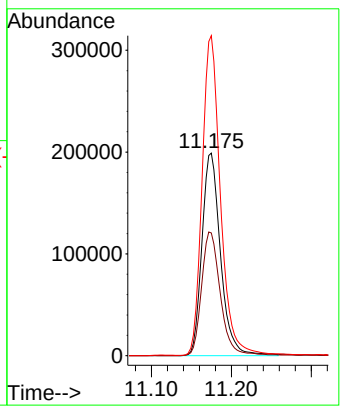
Tgt Ion:152 Resp: 32267

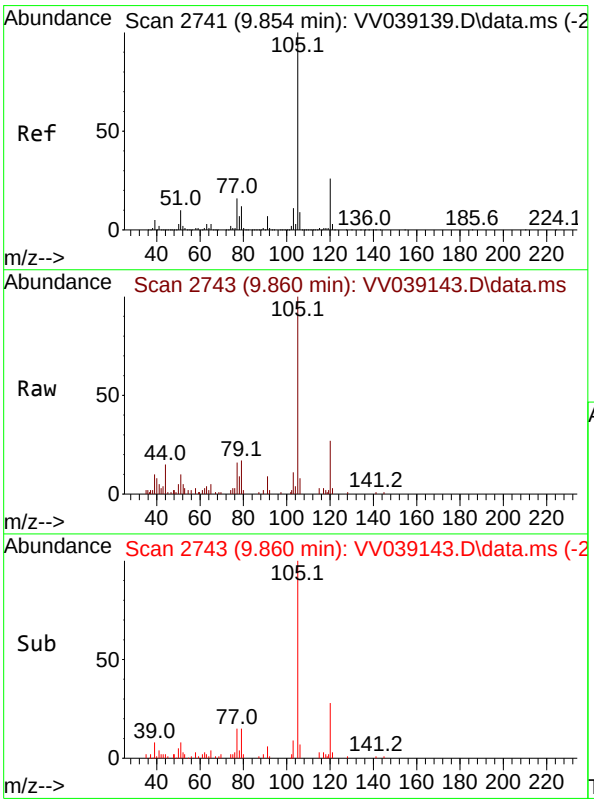
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 61.9 | 44.8 | 134.4 |
| 150 | 156.1 | 0.0 | 353.8 |

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

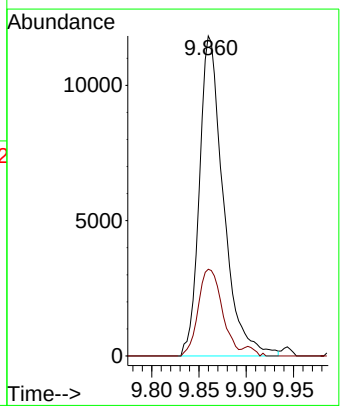


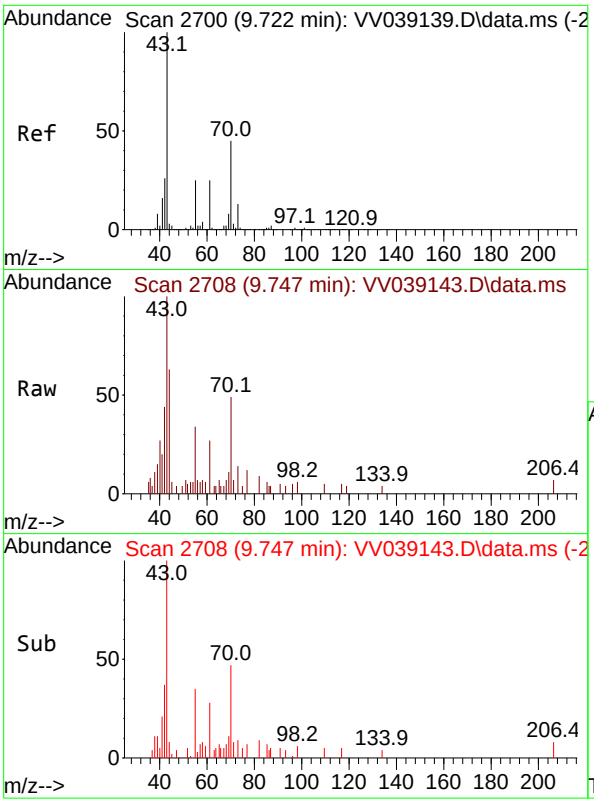




#73
Isopropylbenzene
Concen: 0.890 ug/l
RT: 9.860 min Scan# 2743
Delta R.T. 0.006 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:105 Resp: 20820

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.0 | 13.1 | 39.1 |

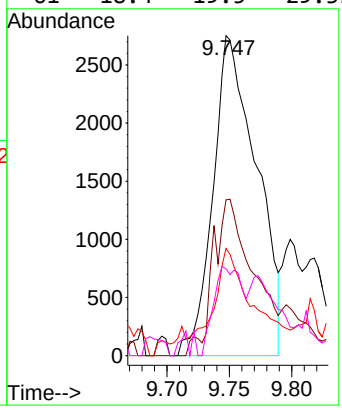





#74
N-amyl acetate
Concen: 0.713 ug/l
RT: 9.747 min Scan# 2
Delta R.T. 0.026 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 43 Resp: 665

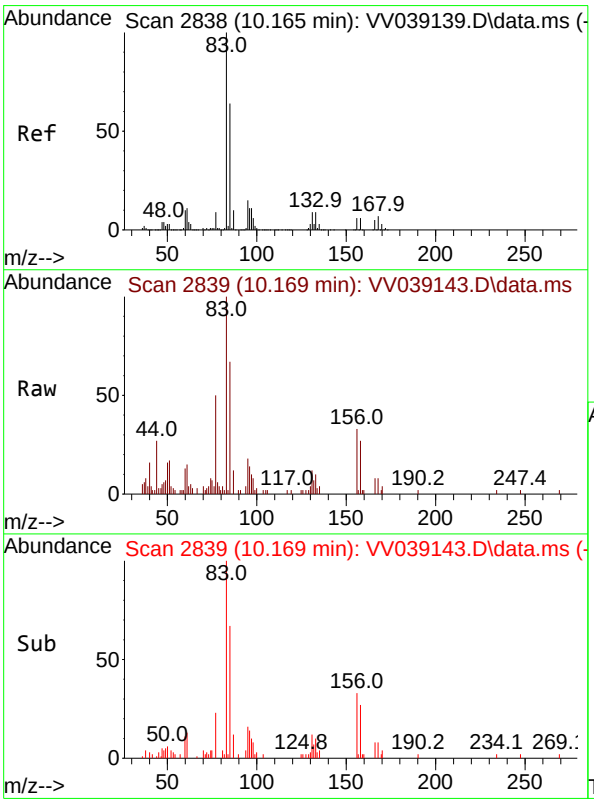
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 39.0 | 35.4 | 53.0 |
| 55 | 22.6 | 20.6 | 30.8 |
| 61 | 18.4 | 19.5 | 29.3# |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**

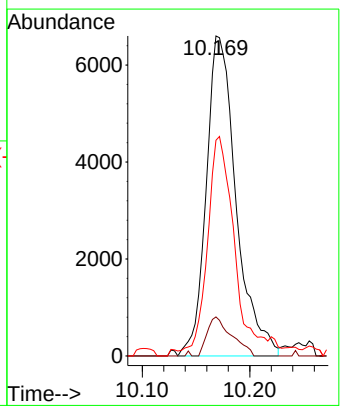
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

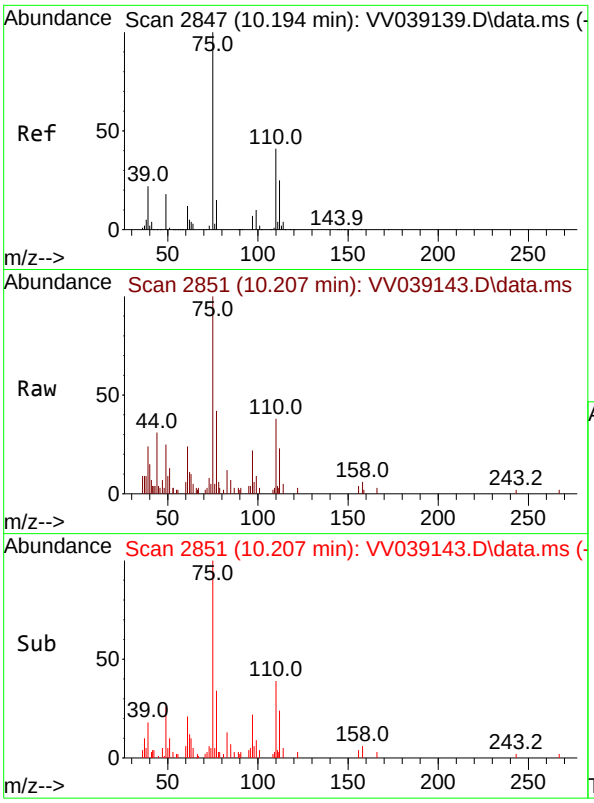



#75
1,1,2,2-Tetrachloroethane
Concen: 1.243 ug/l
RT: 10.169 min Scan# 2839
Delta R.T. 0.003 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 83 Resp: 12746

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.9 | 4.5 | 13.7 |
| 85 | 59.8 | 31.9 | 95.9 |






#76
1,2,3-Trichloropropane
Concen: 1.207 ug/l
RT: 10.207 min Scan# 2
Delta R.T. 0.013 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

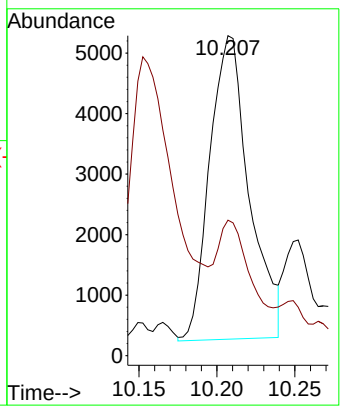
Tgt Ion: 75 Resp: 887

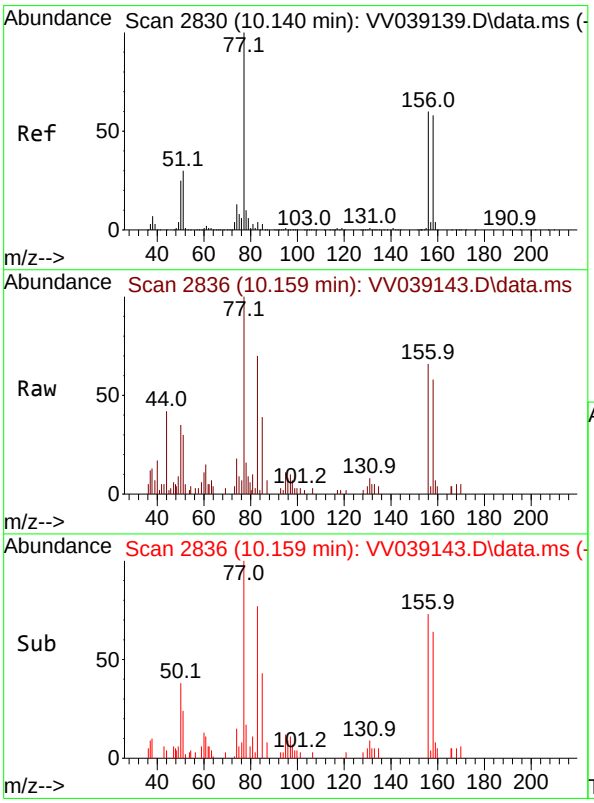
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 22.5 | 11.3 | 33.8 |

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

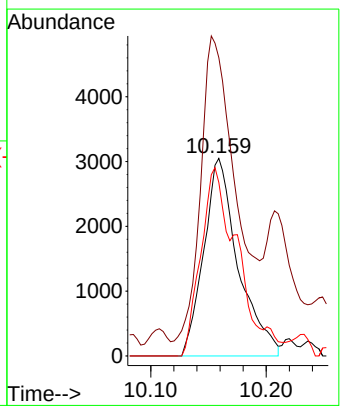


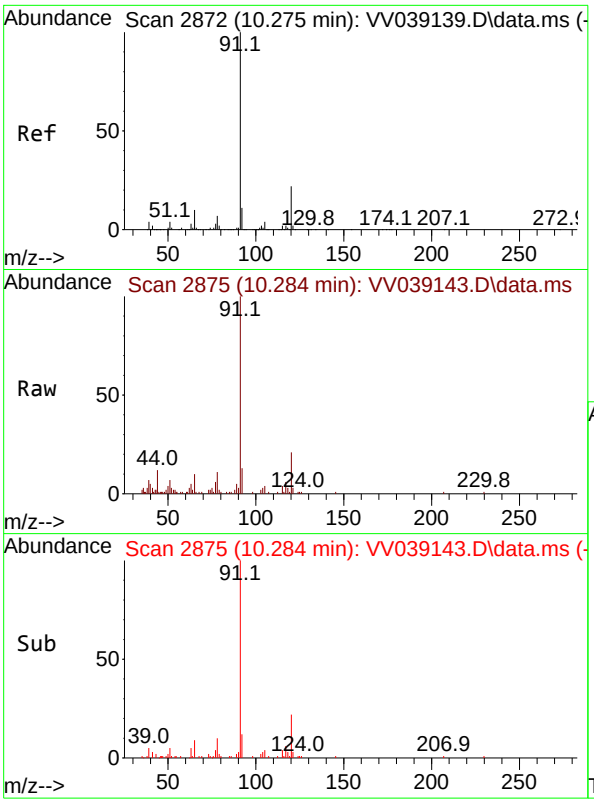




#77
Bromobenzene
Concen: 1.039 ug/l
RT: 10.159 min Scan# 2836
Delta R.T. 0.019 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:156 Resp: 6311

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 155.9 | 83.4 | 250.1 |
| 158 | 103.1 | 48.8 | 146.4 |

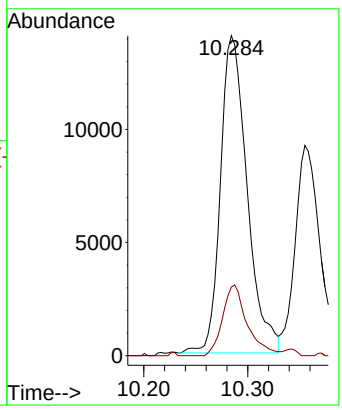





#78
n-propylbenzene
Concen: 0.877 ug/l
RT: 10.284 min Scan# 2
Delta R.T. 0.010 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 91 Resp: 2499

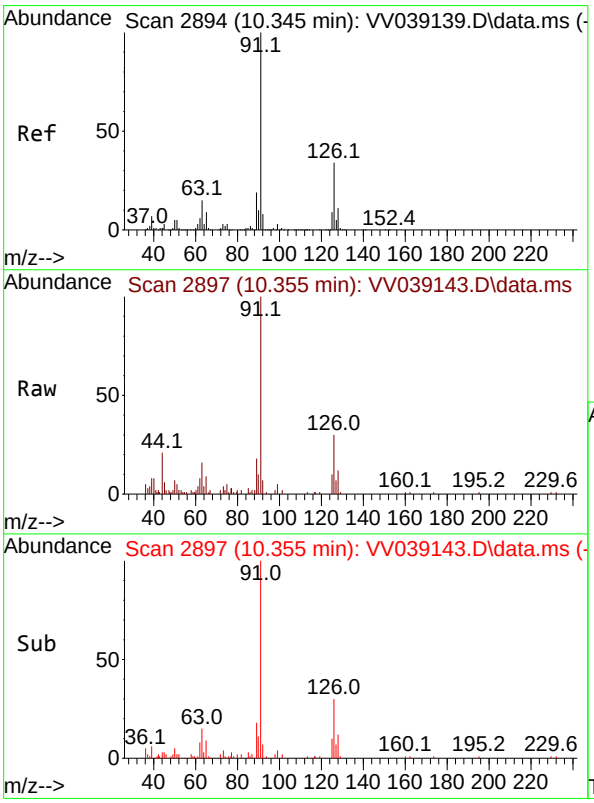
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 20.5 | 11.1 | 33.3 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

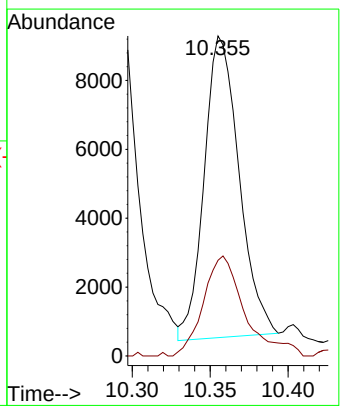
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

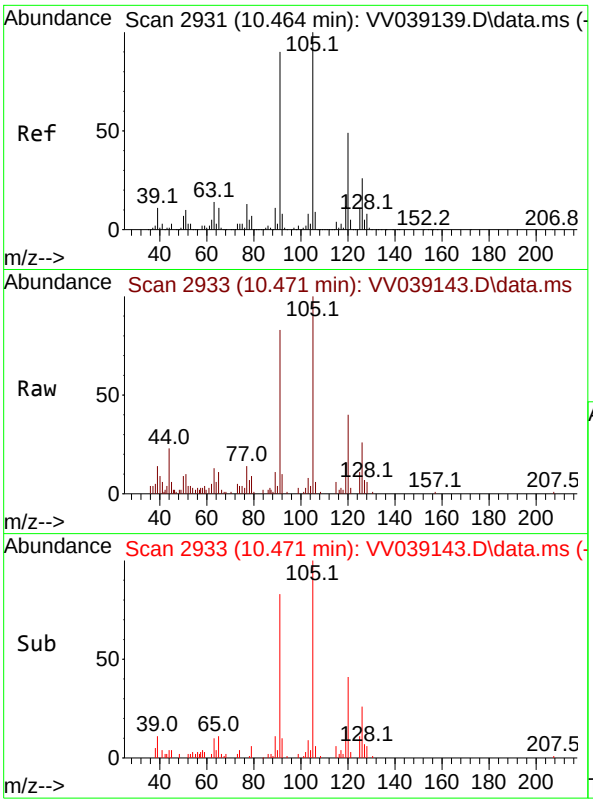



#79
2-Chlorotoluene
Concen: 0.800 ug/l
RT: 10.355 min Scan# 2897
Delta R.T. 0.010 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 91 Resp: 13640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 39.3 | 16.7 | 50.0 |






#80
1,3,5-Trimethylbenzene
Concen: 0.817 ug/l
RT: 10.471 min Scan# 2
Delta R.T. 0.006 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

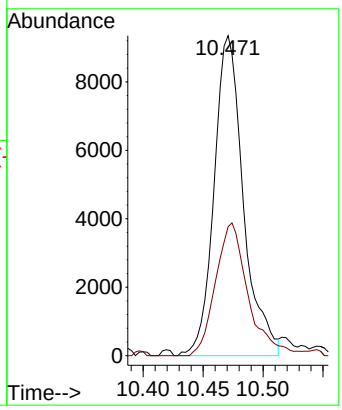
Tgt Ion:105 Resp: 1588

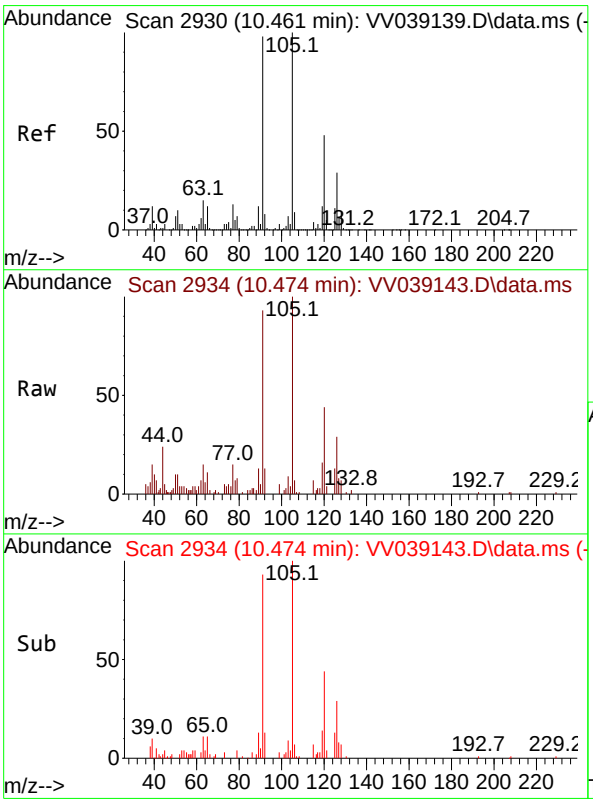
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.1 | 24.3 | 72.8 |

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

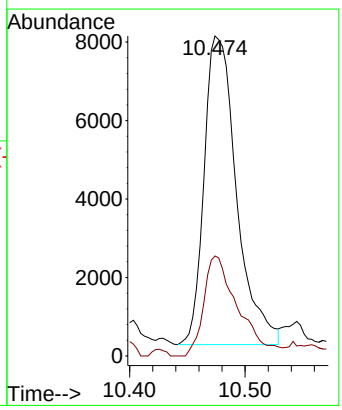


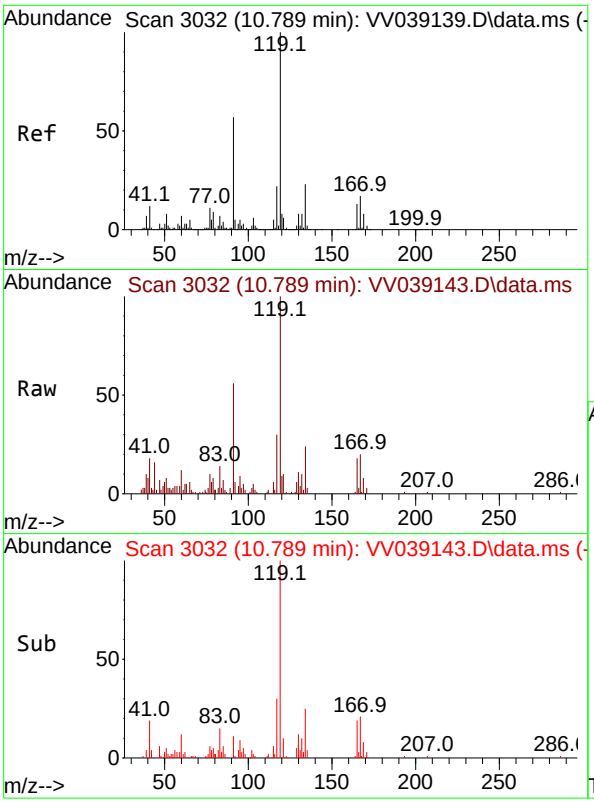




#82
4-Chlorotoluene
Concen: 0.777 ug/l
RT: 10.474 min Scan# 2934
Delta R.T. 0.013 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 91 Resp: 15363

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.2 | 14.5 | 43.6 |






#83
tert-Butylbenzene
Concen: 0.956 ug/l
RT: 10.789 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

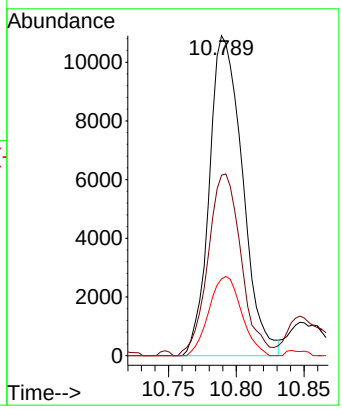
Tgt Ion:119 Resp: 1855

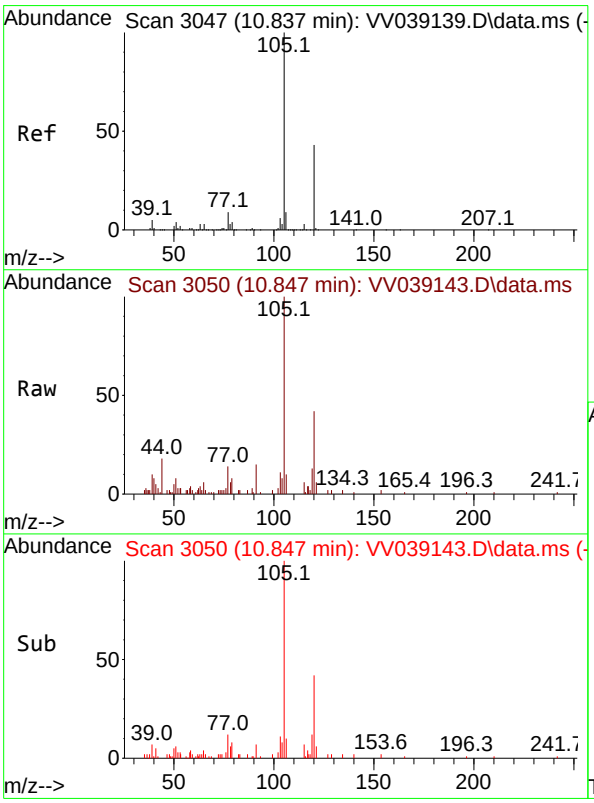
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 56.8 | 28.5 | 85.6 |
| 134 | 24.3 | 11.5 | 34.4 |

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

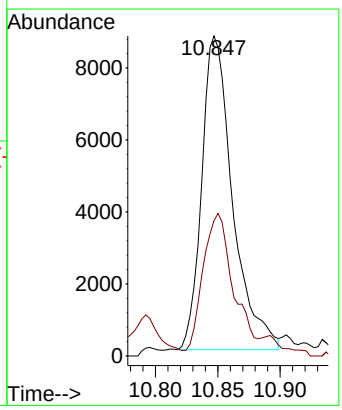


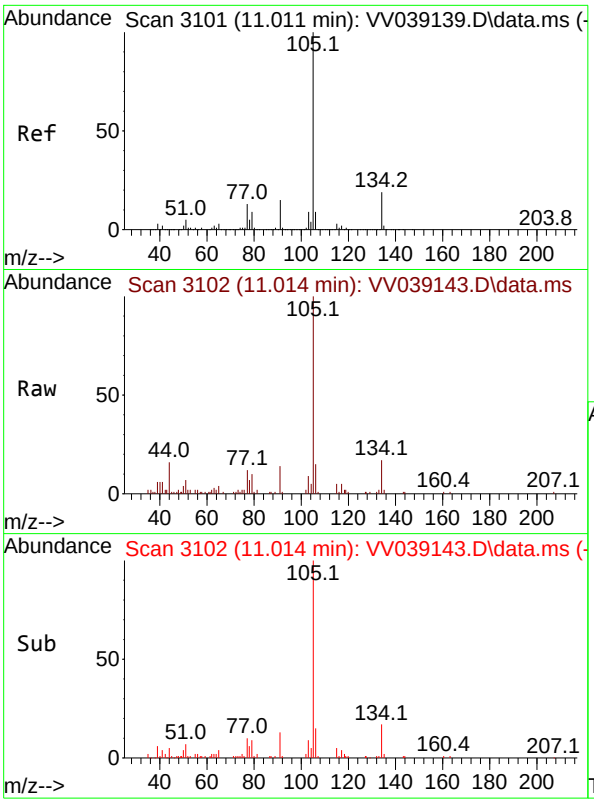




#84
1,2,4-Trimethylbenzene
Concen: 0.797 ug/l
RT: 10.847 min Scan# 3050
Delta R.T. 0.010 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:105 Resp: 15048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 41.8 | 22.4 | 67.2 |

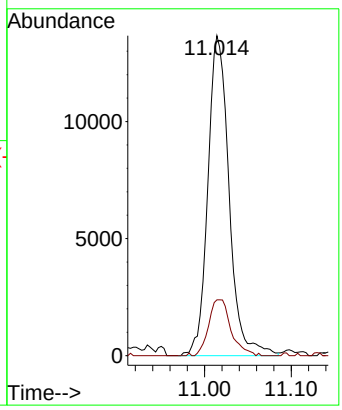





#85
sec-Butylbenzene
Concen: 0.904 ug/l
RT: 11.014 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:105 Resp: 2326

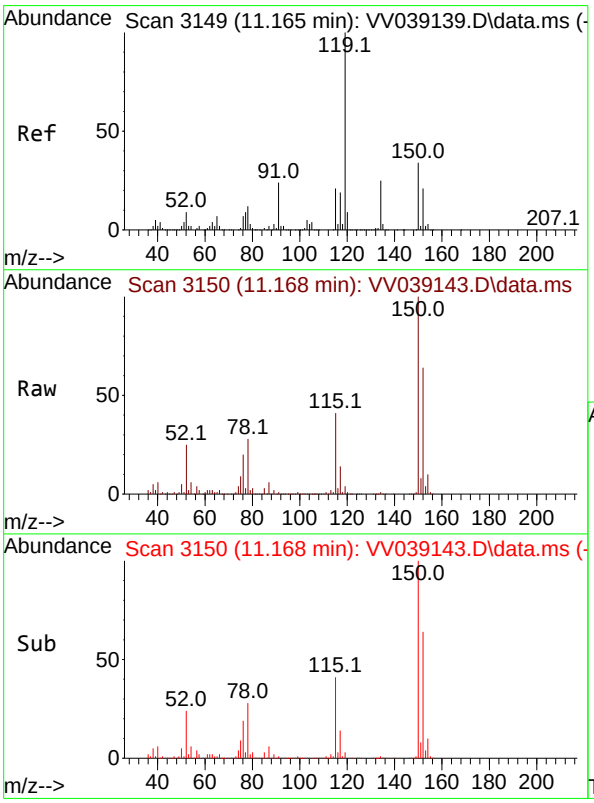
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 18.3 | 9.6 | 28.8 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

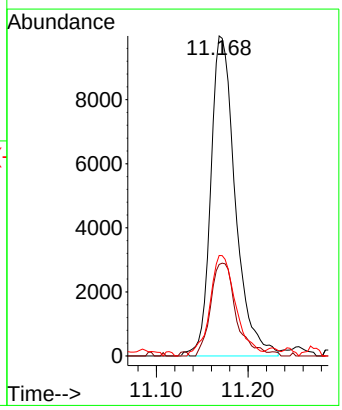
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

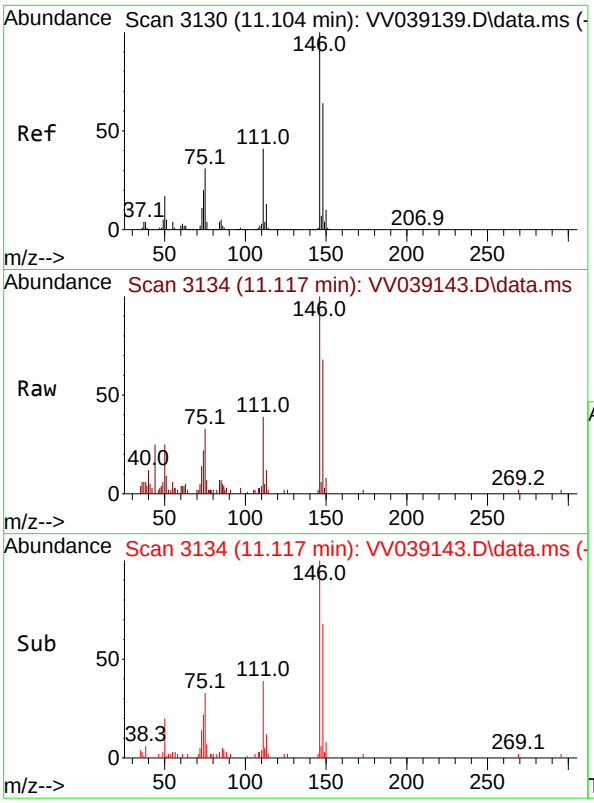



#86
p-Isopropyltoluene
Concen: 0.866 ug/l
RT: 11.168 min Scan# 3150
Delta R.T. 0.003 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:119 Resp: 18549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 29.9 | 12.7 | 38.0 |
| 91 | 33.1 | 12.0 | 36.1 |

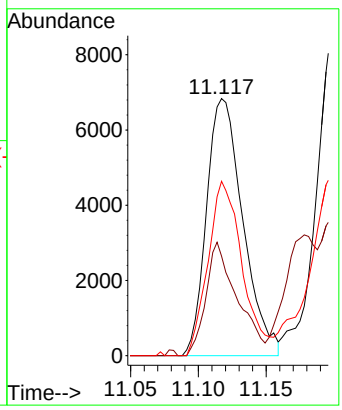





#87
1,3-Dichlorobenzene
Concen: 1.037 ug/l
RT: 11.117 min Scan# 3
Delta R.T. 0.013 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:146 Resp: 1274

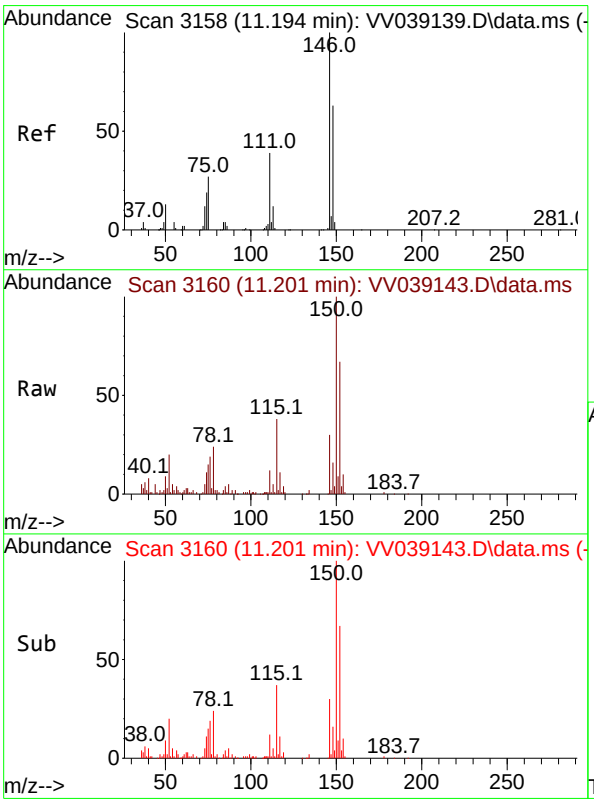
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.0 | 20.9 | 62.8 |
| 148 | 64.1 | 31.8 | 95.3 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**

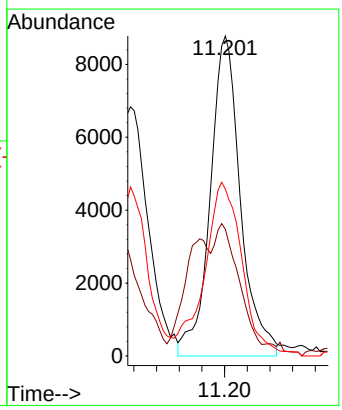
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

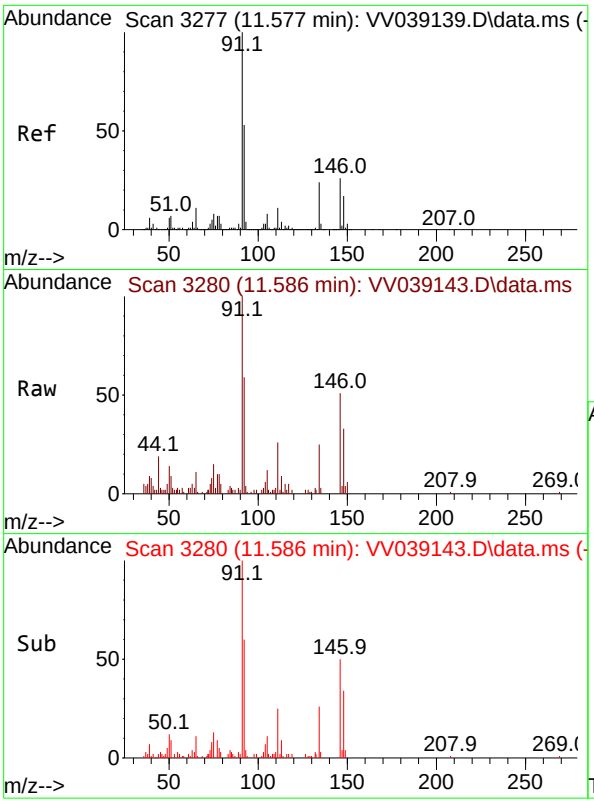



#88
1,4-Dichlorobenzene
Concen: 1.199 ug/l m
RT: 11.201 min Scan# 3160
Delta R.T. 0.006 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:146 Resp: 16279

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 29.7 | 20.3 | 60.8 |
| 148 | 50.2 | 31.4 | 94.2 |

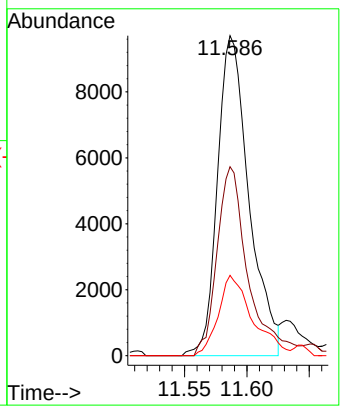





#89
n-Butylbenzene
Concen: 0.835 ug/l
RT: 11.586 min Scan# 3
Delta R.T. 0.009 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 91 Resp: 1707

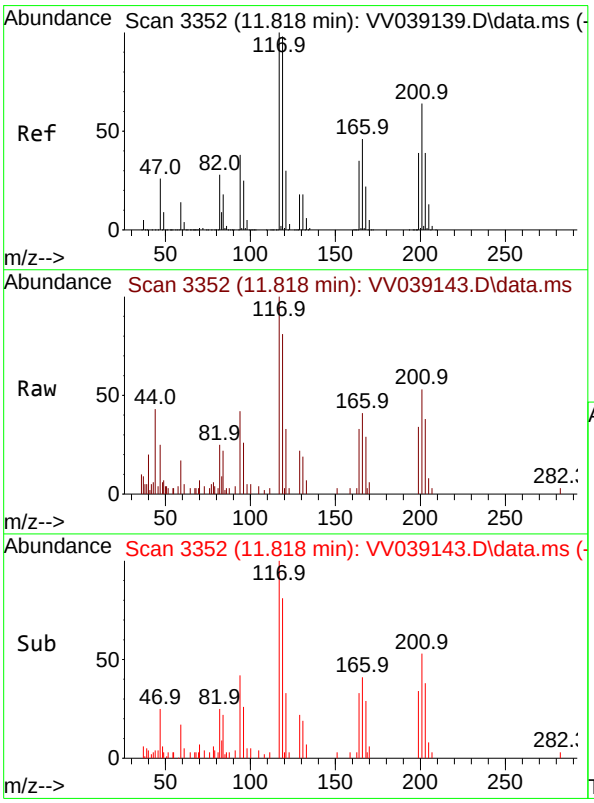
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 57.8 | 26.6 | 79.8 |
| 134 | 27.3 | 12.1 | 36.3 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**

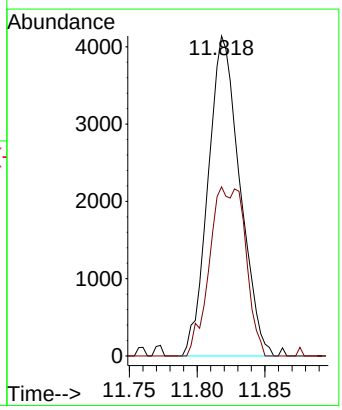
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

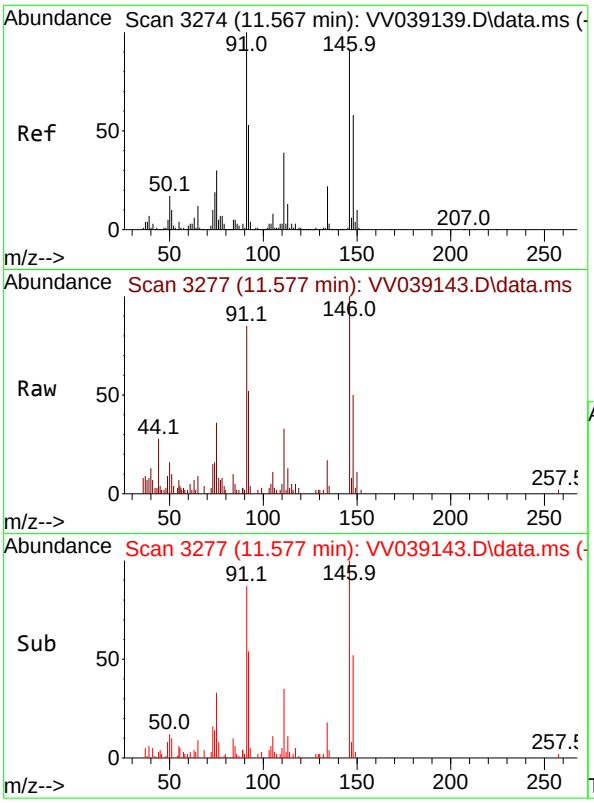



#90
Hexachloroethane
Concen: 1.277 ug/l
RT: 11.818 min Scan# 3352
Delta R.T. -0.000 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:117 Resp: 6736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 60.0 | 32.3 | 96.8 |

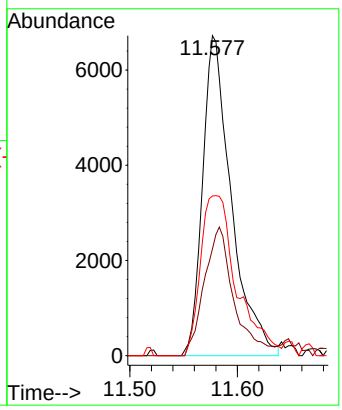





#91
1,2-Dichlorobenzene
Concen: 1.088 ug/l
RT: 11.577 min Scan# 3
Delta R.T. 0.010 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:146 Resp: 1248

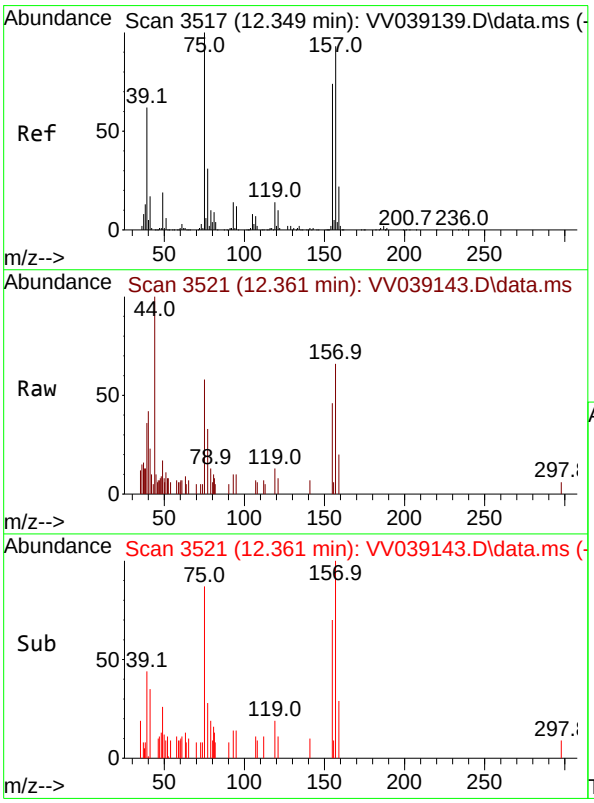
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.4 | 21.5 | 64.5 |
| 148 | 63.0 | 31.9 | 95.7 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

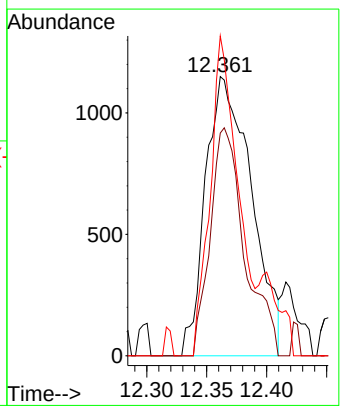
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

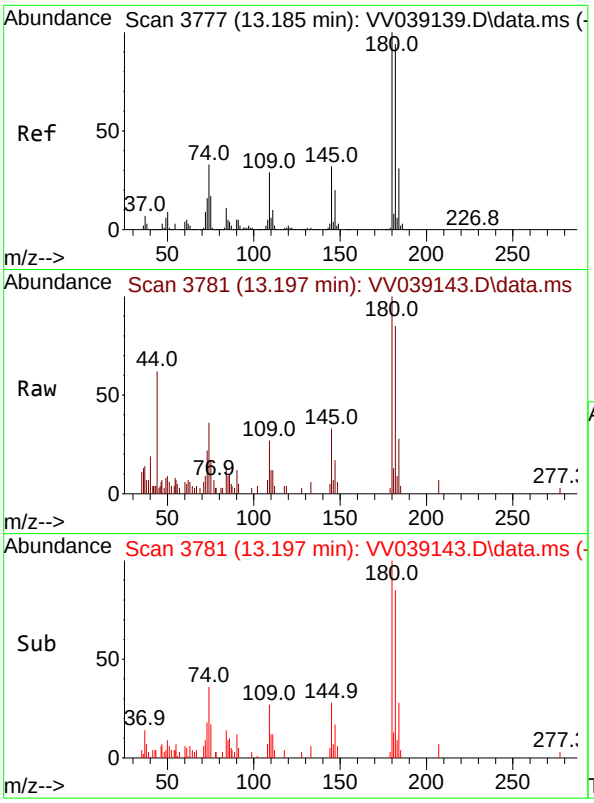



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.690 ug/l
RT: 12.361 min Scan# 3521
Delta R.T. 0.012 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion: 75 Resp: 3071

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 60.9 | 38.6 | 115.8 |
| 157 | 68.7 | 49.5 | 148.3 |

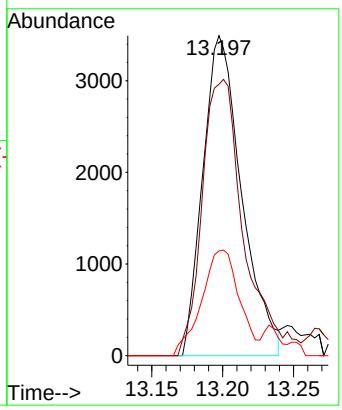





#93
1,2,4-Trichlorobenzene
Concen: 1.008 ug/l
RT: 13.197 min Scan# 3
Delta R.T. 0.012 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:180 Resp: 663

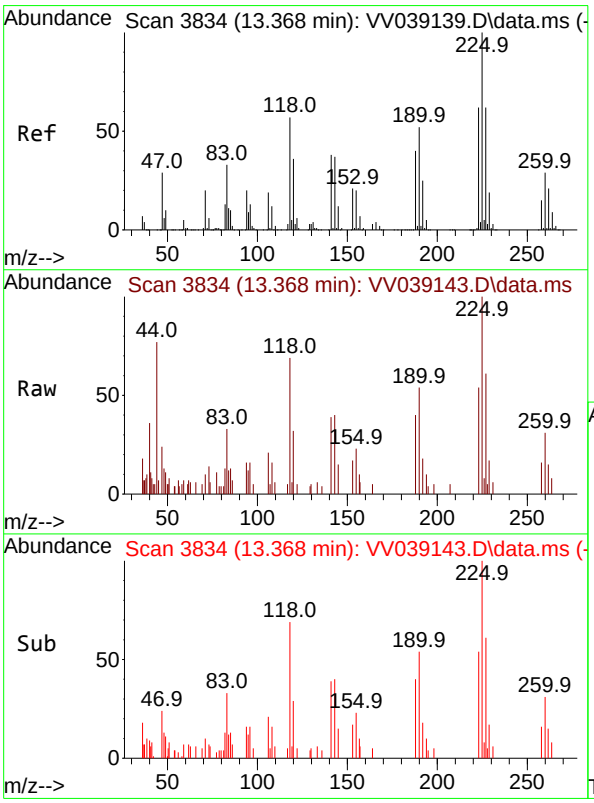
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 92.8 | 47.1 | 141.4 |
| 145 | 32.5 | 16.3 | 48.8 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

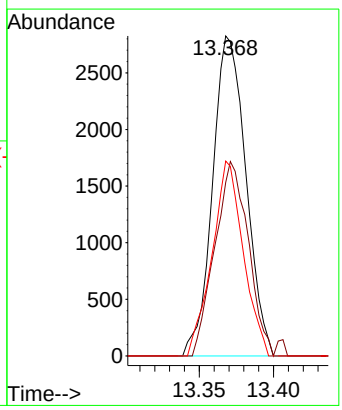
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

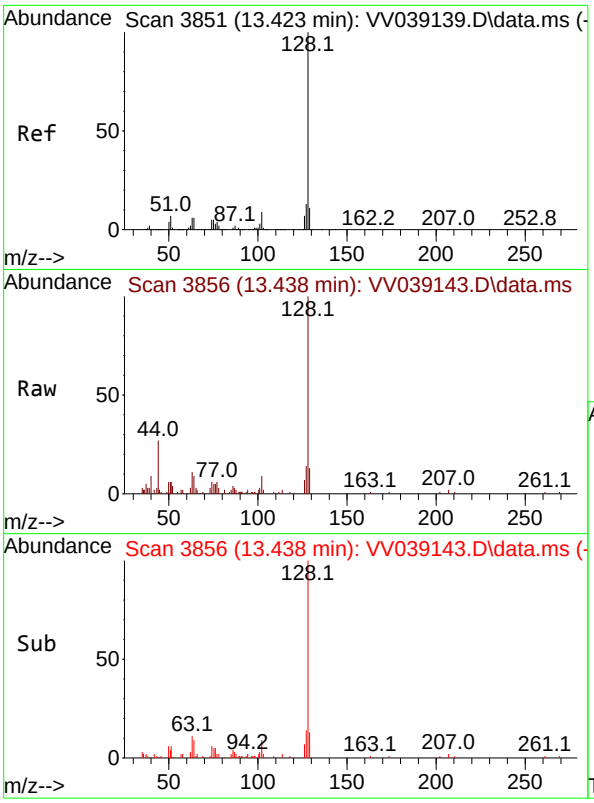



#94
Hexachlorobutadiene
Concen: 1.288 ug/l
RT: 13.368 min Scan# 3834
Delta R.T. -0.000 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:225 Resp: 4406

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 61.1 | 31.6 | 94.7 |
| 227 | 57.1 | 31.8 | 95.4 |

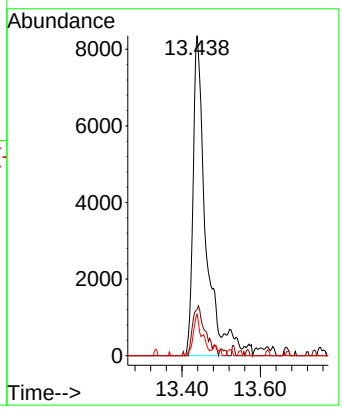





#95
Naphthalene
Concen: 0.931 ug/l m
RT: 13.438 min Scan# 3
Delta R.T. 0.015 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:128 Resp: 1970

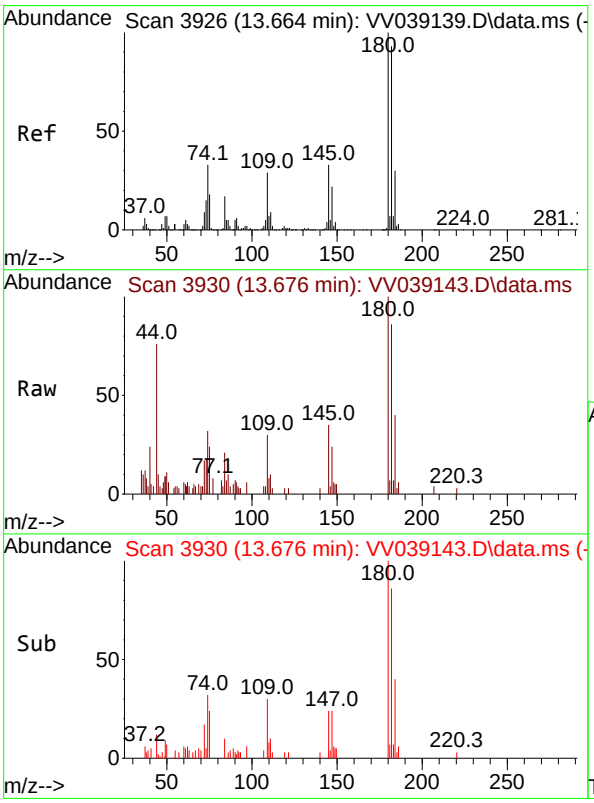
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 0.6 | 10.3 | 15.5# |
| 129 | 0.6 | 8.6 | 13.0# |




**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**

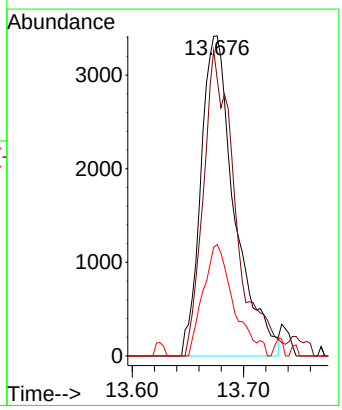
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025




#96
1,2,3-Trichlorobenzene
Concen: 1.067 ug/l
RT: 13.676 min Scan# 3930
Delta R.T. 0.013 min
Lab File: VV039143.D
Acq: 22 Sep 2025 16:35

Tgt Ion:180 Resp: 7184

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 91.3 | 46.9 | 140.8 |
| 145 | 31.6 | 17.0 | 51.0 |



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039144.D
Acq On : 22 Sep 2025 16:58
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 24 08:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations APPROVED**
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 4.600 | 168 | 530687 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.535 | 114 | 821122 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.776 | 117 | 811351 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.172 | 152 | 500088 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.940 | 65 | 368982 | 48.041 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 96.080% | | | |
| 35) Dibromofluoromethane | 4.500 | 113 | 335549 | 50.832 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 101.660% | | | |
| 50) Toluene-d8 | 7.236 | 98 | 1012009 | 52.199 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 104.400% | | | |
| 62) 4-Bromofluorobenzene | 10.001 | 95 | 453523 | 56.823 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 113.640% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.121 | 85 | 380034 | 45.238 | ug/l | 98 |
| 3) Chloromethane | 1.230 | 50 | 419560 | 46.523 | ug/l | 99 |
| 4) Vinyl Chloride | 1.298 | 62 | 438971 | 45.467 | ug/l | 100 |
| 5) Bromomethane | 1.494 | 94 | 274408 | 45.085 | ug/l | 100 |
| 6) Chloroethane | 1.558 | 64 | 288768 | 50.873 | ug/l | 97 |
| 7) Trichlorofluoromethane | 1.725 | 101 | 649327 | 46.452 | ug/l | 98 |
| 8) Diethyl Ether | 1.918 | 74 | 239410 | 46.136 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 2.082 | 101 | 386460 | 46.465 | ug/l | 98 |
| 10) Methyl Iodide | 2.198 | 142 | 394299 | 49.783 | ug/l | 100 |
| 11) Tert butyl alcohol | 2.571 | 59 | 409358 | 252.173 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 2.082 | 96 | 367440 | 45.922 | ug/l | 99 |
| 13) Acrolein | 2.011 | 56 | 76596 | 271.925 | ug/l | 95 |
| 14) Allyl chloride | 2.359 | 41 | 673070 | 47.092 | ug/l | 100 |
| 15) Acrylonitrile | 2.674 | 53 | 1247029 | 239.637 | ug/l | 100 |
| 16) Acetone | 2.117 | 43 | 1131047 | 237.325 | ug/l | 99 |
| 17) Carbon Disulfide | 2.252 | 76 | 1114937 | 45.563 | ug/l | 99 |
| 18) Methyl Acetate | 2.381 | 43 | 564211 | 49.579 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 2.712 | 73 | 1204021 | 47.223 | ug/l | 100 |
| 20) Methylene Chloride | 2.458 | 84 | 426790 | 51.536 | ug/l | 99 |
| 21) trans-1,2-Dichloroethene | 2.703 | 96 | 391103 | 45.915 | ug/l | 100 |
| 22) Diisopropyl ether | 3.217 | 45 | 1355158 | 49.556 | ug/l | 95 |
| 23) Vinyl Acetate | 3.188 | 43 | 5946893 | 248.597 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 3.117 | 63 | 761495 | 45.536 | ug/l | 100 |
| 25) 2-Butanone | 3.867 | 43 | 1611713 | 262.050 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 3.812 | 77 | 648277 | 43.721 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 3.818 | 96 | 459958 | 48.960 | ug/l | 99 |
| 28) Bromochloromethane | 4.146 | 49 | 384995 | 52.149 | ug/l | 100 |
| 29) Tetrahydrofuran | 4.236 | 42 | 1064545 | 276.528 | ug/l | 99 |
| 30) Chloroform | 4.278 | 83 | 820367 | 46.980 | ug/l | 99 |
| 31) Cyclohexane | 4.584 | 56 | 654806 | 47.799 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 4.513 | 97 | 709351 | 46.922 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 4.744 | 75 | 537027 | 53.809 | ug/l | 99 |
| 37) Ethyl Acetate | 3.976 | 43 | 630342 | 52.050 | ug/l | 99 |
| 38) Carbon Tetrachloride | 4.735 | 117 | 603187 | 49.452 | ug/l | 99 |
| 39) Methylcyclohexane | 6.047 | 83 | 692131 | 57.426 | ug/l | 98 |
| 40) Benzene | 5.008 | 78 | 1699505 | 52.293 | ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039144.D
Acq On : 22 Sep 2025 16:58
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 24 08:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.159 | 41 | 282895 | 51.602 | ug/l | | 99 |
| 42) 1,2-Dichloroethane | 5.040 | 62 | 583550 | 51.245 | ug/l | | 99 |
| 43) Isopropyl Acetate | 5.194 | 43 | 924654 | 55.998 | ug/l | | 99 |
| 44) Trichloroethene | 5.831 | 130 | 384092 | 51.216 | ug/l | | 95 |
| 45) 1,2-Dichloropropane | 6.088 | 63 | 440211 | 54.495 | ug/l | | 97 |
| 46) Dibromomethane | 6.223 | 93 | 316032 | 51.116 | ug/l | | 97 |
| 47) Bromodichloromethane | 6.426 | 83 | 654836 | 51.232 | ug/l | | 99 |
| 48) Methyl methacrylate | 6.297 | 41 | 442395 | 59.104 | ug/l | | 98 |
| 49) 1,4-Dioxane | 6.291 | 88 | 136899 | 1133.346 | ug/l | | 99 |
| 51) 4-Methyl-2-Pentanone | 7.149 | 43 | 3292794 | 303.119 | ug/l | | 100 |
| 52) Toluene | 7.307 | 92 | 1064972 | 56.517 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 7.574 | 75 | 621814 | 55.823 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 6.947 | 75 | 690532 | 56.154 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 7.760 | 97 | 432856 | 51.231 | ug/l | | 99 |
| 56) Ethyl methacrylate | 7.715 | 69 | 610159 | 60.810 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 7.934 | 76 | 716955 | 53.769 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 6.812 | 63 | 1474938 | 259.936 | ug/l | | 99 |
| 59) 2-Hexanone | 8.063 | 43 | 2462493 | 280.545 | ug/l | | 100 |
| 60) Dibromochloromethane | 8.169 | 129 | 499908 | 51.926 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 8.272 | 107 | 460510 | 53.295 | ug/l | | 100 |
| 64) Tetrachloroethene | 7.895 | 164 | 346271 | 50.954 | ug/l | | 99 |
| 65) Chlorobenzene | 8.802 | 112 | 1153503 | 51.041 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 8.899 | 131 | 409401 | 50.136 | ug/l | | 100 |
| 67) Ethyl Benzene | 8.937 | 91 | 1964943 | 57.438 | ug/l | | 100 |
| 68) m/p-Xylenes | 9.062 | 106 | 1592118 | 120.582 | ug/l | | 100 |
| 69) o-Xylene | 9.468 | 106 | 706301 | 60.414 | ug/l | | 98 |
| 70) Styrene | 9.484 | 104 | 1306032 | 52.671 | ug/l | | 99 |
| 71) Bromoform | 9.654 | 173 | 335410 | 52.585 | ug/l | # | 98 |
| 73) Isopropylbenzene | 9.857 | 105 | 1966280 | 54.210 | ug/l | | 100 |
| 74) N-amyl acetate | 9.725 | 43 | 841099 | 58.135 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 10.165 | 83 | 724860 | 45.610 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 10.197 | 75 | 563785m | 49.515 | ug/l | | |
| 77) Bromobenzene | 10.140 | 156 | 462931 | 49.193 | ug/l | | 99 |
| 78) n-propylbenzene | 10.278 | 91 | 2444658 | 55.347 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 10.349 | 91 | 1412046 | 53.426 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 10.464 | 105 | 1709353 | 56.698 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 9.927 | 75 | 247871 | 52.262 | ug/l | | 99 |
| 82) 4-Chlorotoluene | 10.461 | 91 | 1680201 | 54.824 | ug/l | | 100 |
| 83) tert-Butylbenzene | 10.789 | 119 | 1610870 | 53.584 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 10.837 | 105 | 1695994 | 57.944 | ug/l | | 100 |
| 85) sec-Butylbenzene | 11.011 | 105 | 2189540 | 54.911 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 11.165 | 119 | 1841747 | 55.495 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 11.104 | 146 | 939483 | 49.328 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 11.194 | 146 | 971665 | 46.502 | ug/l | | 99 |
| 89) n-Butylbenzene | 11.580 | 91 | 1798412 | 56.740 | ug/l | | 100 |
| 90) Hexachloroethane | 11.818 | 117 | 370188 | 45.296 | ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 11.567 | 146 | 878347 | 49.362 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.349 | 75 | 150399 | 52.479 | ug/l | | 98 |
| 93) 1,2,4-Trichlorobenzene | 13.185 | 180 | 533045 | 52.259 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 13.368 | 225 | 243496 | 45.942 | ug/l | | 99 |
| 95) Naphthalene | 13.422 | 128 | 1919772 | 58.231 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 13.667 | 180 | 549079 | 52.633 | ug/l | | 98 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039144.D
Acq On : 22 Sep 2025 16:58
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

Quant Time: Sep 24 08:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

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

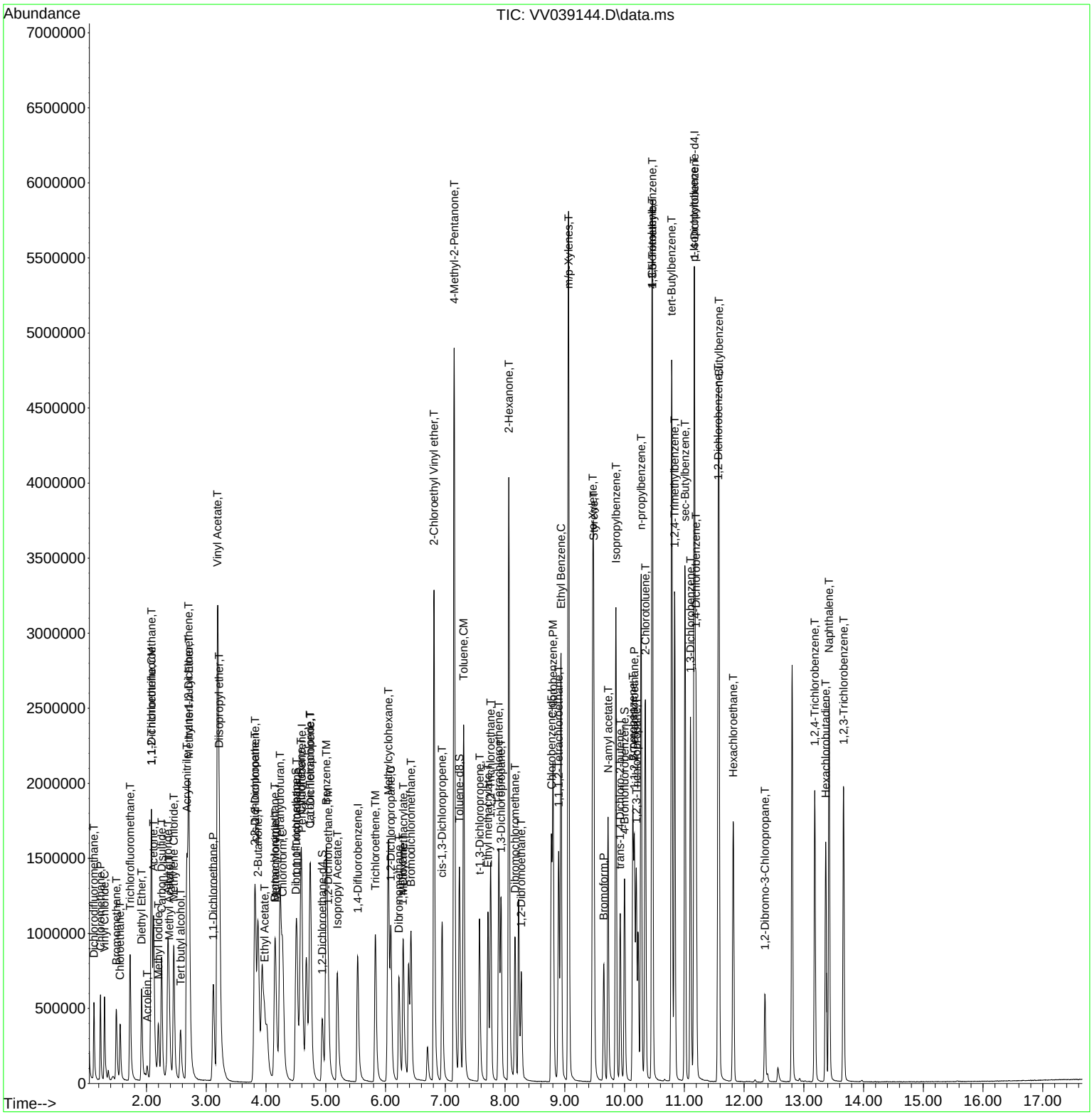
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039144.D
Acq On : 22 Sep 2025 16:58
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

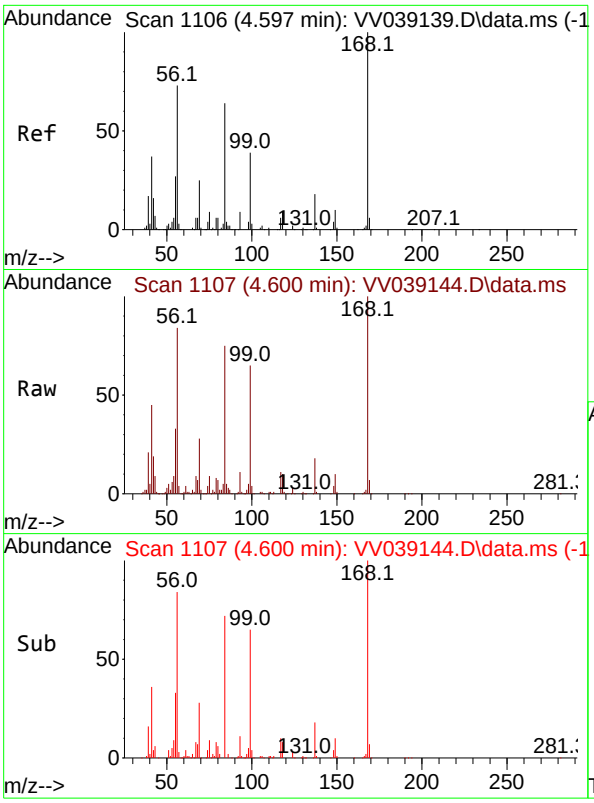
Quant Time: Sep 24 08:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

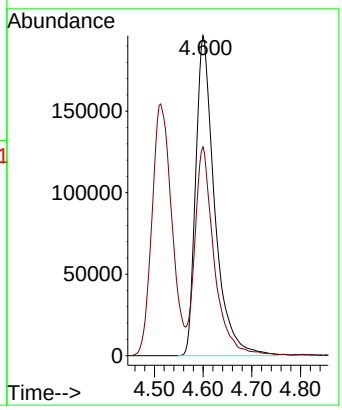





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:168 Resp: 53068

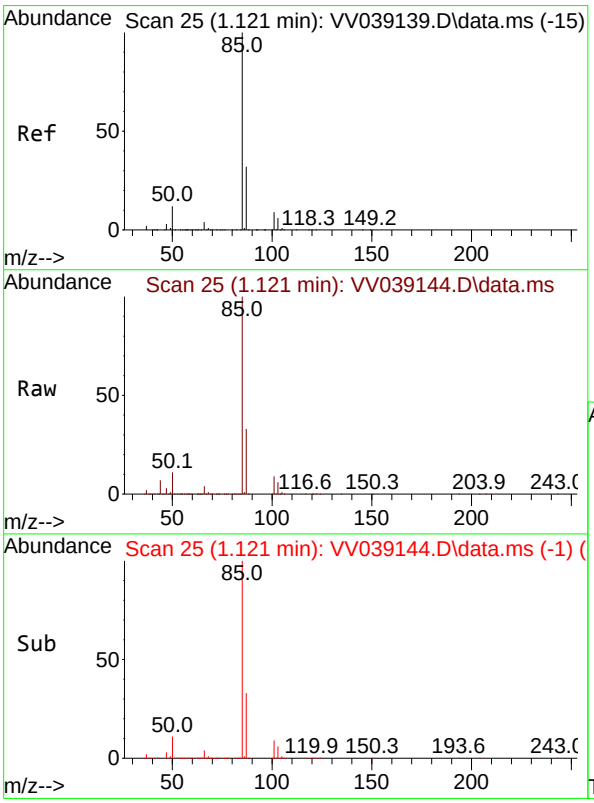
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 64.8 | 49.6 | 74.4 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations**
**APPROVED**

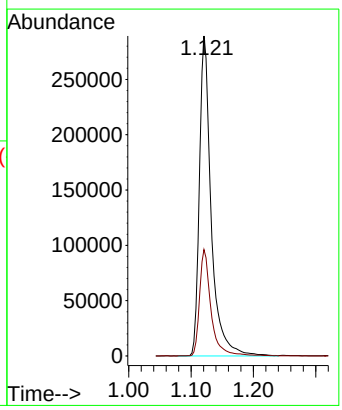
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

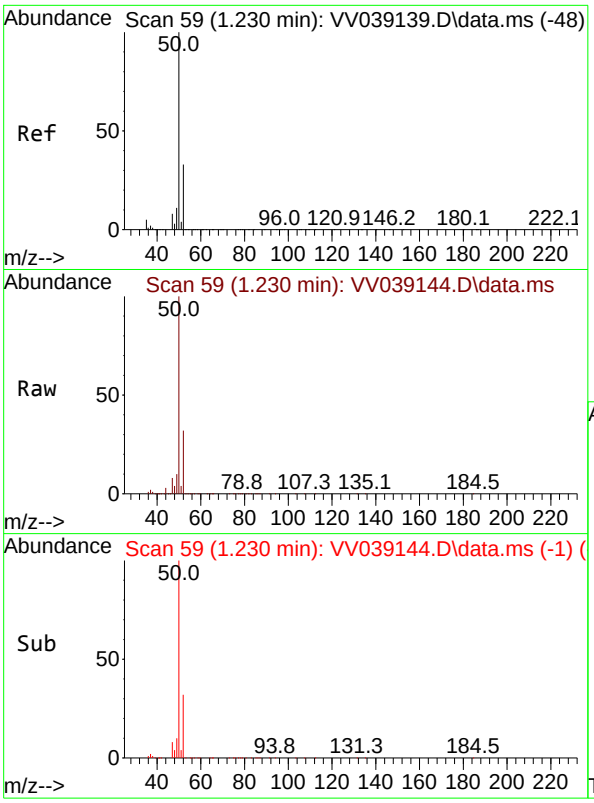



#2
Dichlorodifluoromethane
Concen: 45.238 ug/l
RT: 1.121 min Scan# 25
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 85 Resp: 380034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.2 | 16.0 | 47.9 |

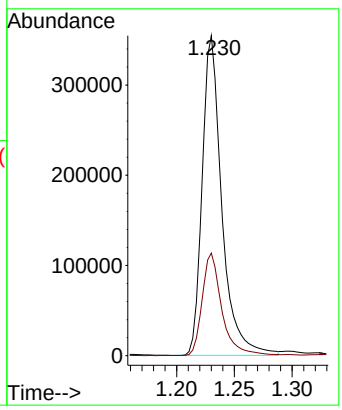





#3
Chloromethane
Concen: 46.523 ug/l
RT: 1.230 min Scan# 5
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 50 Resp: 41956

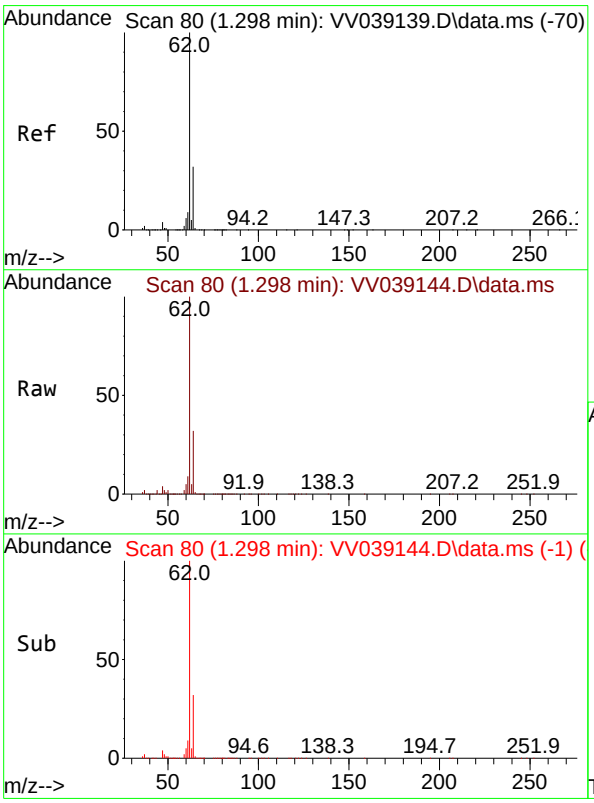
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.0 | 26.0 | 39.0 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations**
**APPROVED**

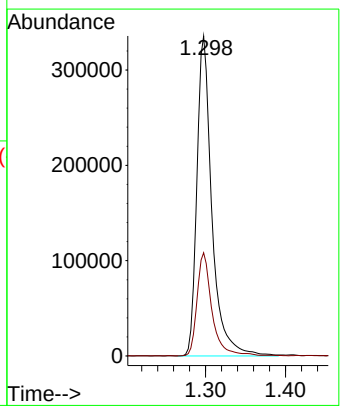
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

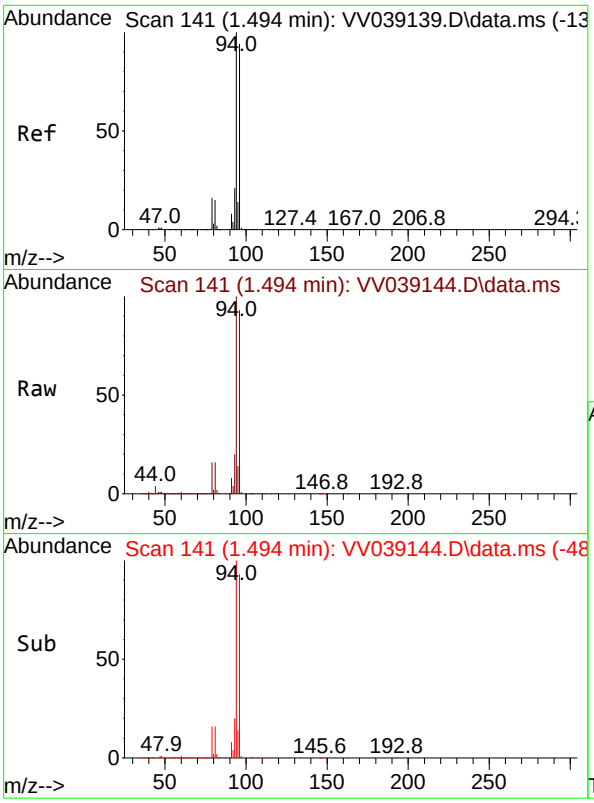



#4
Vinyl Chloride
Concen: 45.467 ug/l
RT: 1.298 min Scan# 80
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 62 Resp: 438971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.2 | 25.6 | 38.4 |

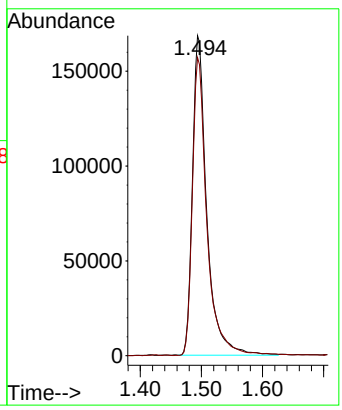





#5
Bromomethane
Concen: 45.085 ug/l
RT: 1.494 min Scan# 14
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 94 Resp: 27440

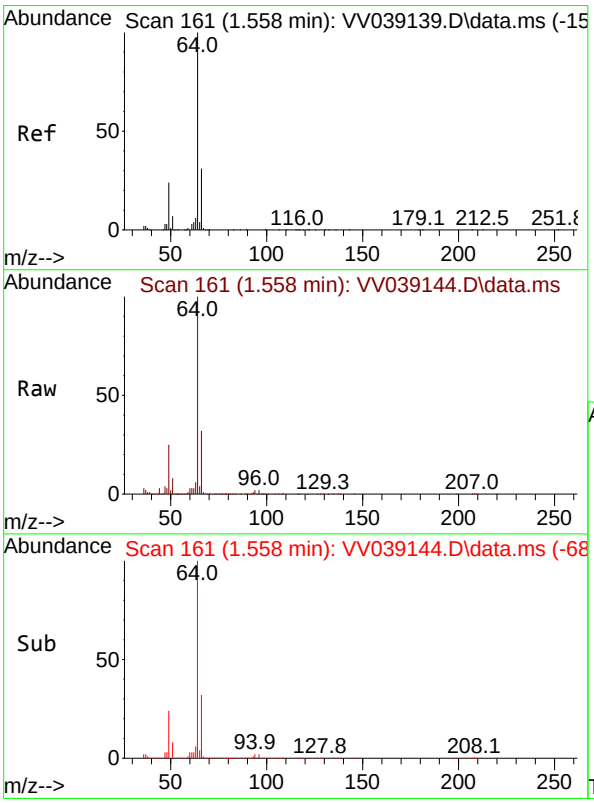
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 93.2 | 74.9 | 112.3 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations**
**APPROVED**

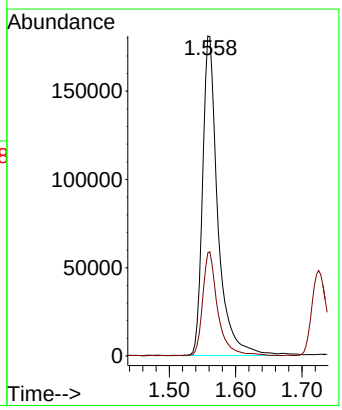
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

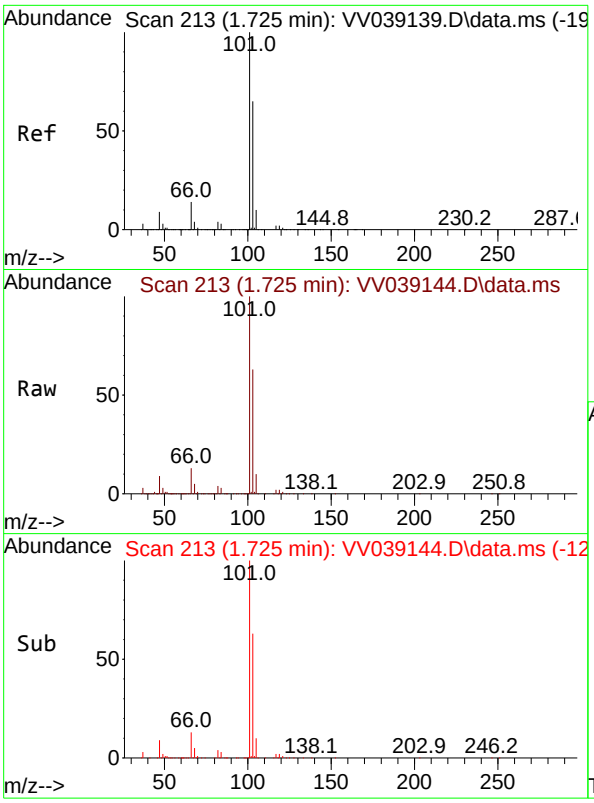



#6
Chloroethane
Concen: 50.873 ug/l
RT: 1.558 min Scan# 161
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 64 Resp: 288768

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.1 | 24.6 | 36.8 |

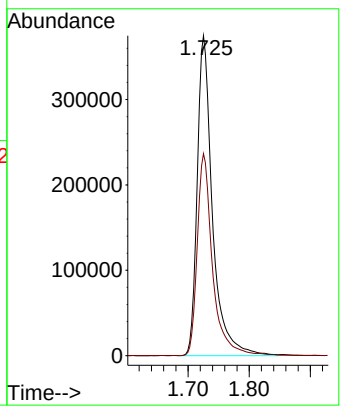





#7
Trichlorofluoromethane
Concen: 46.452 ug/l
RT: 1.725 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:101 Resp: 64932

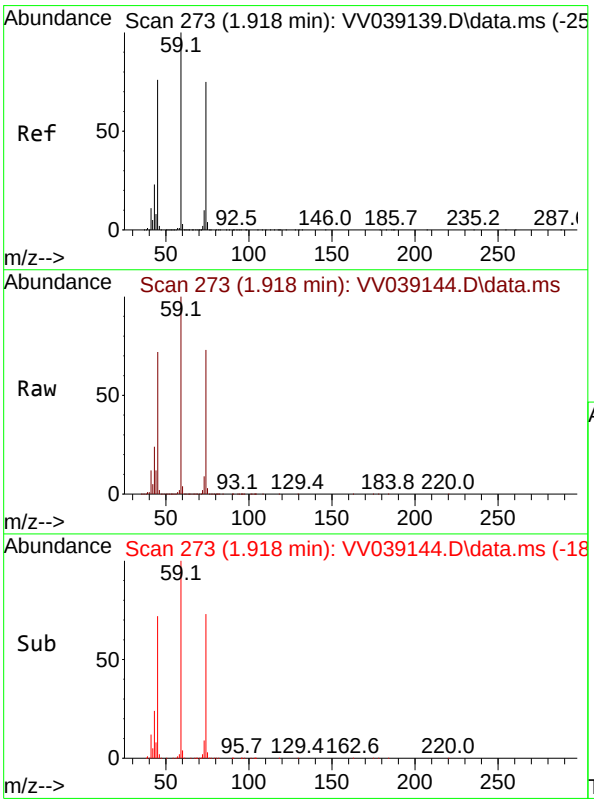
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.1 | 52.0 | 78.0 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations**
**APPROVED**

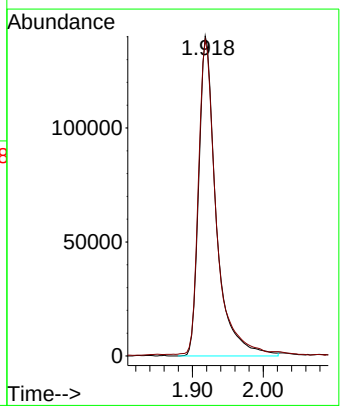
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

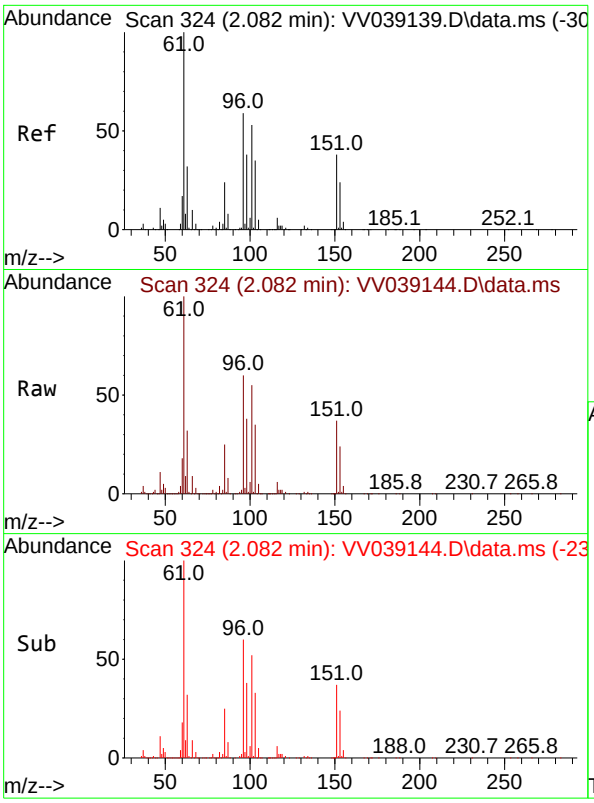



#8
Diethyl Ether
Concen: 46.136 ug/l
RT: 1.918 min Scan# 273
Delta R.T. 0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 74 Resp: 239410

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 98.9 | 49.6 | 148.8 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 46.465 ug/l
RT: 2.082 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

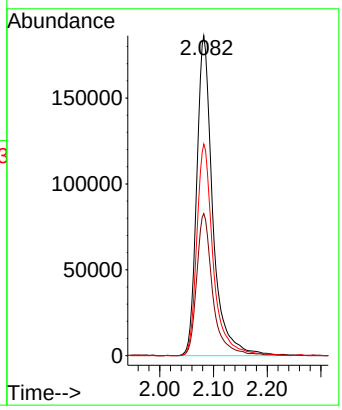
Tgt Ion:101 Resp: 38646

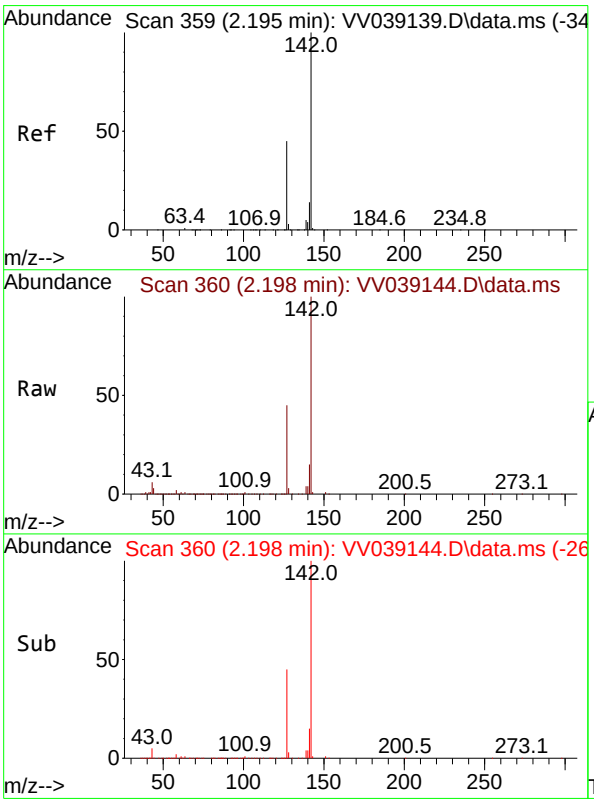
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 44.1 | 36.2 | 54.2 |
| 151 | 68.0 | 56.3 | 84.5 |

**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

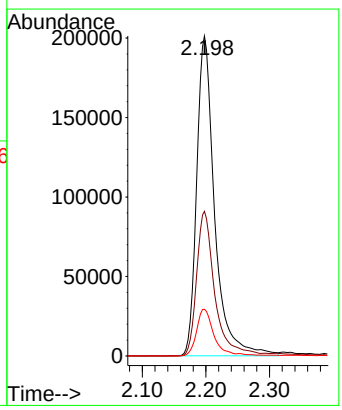


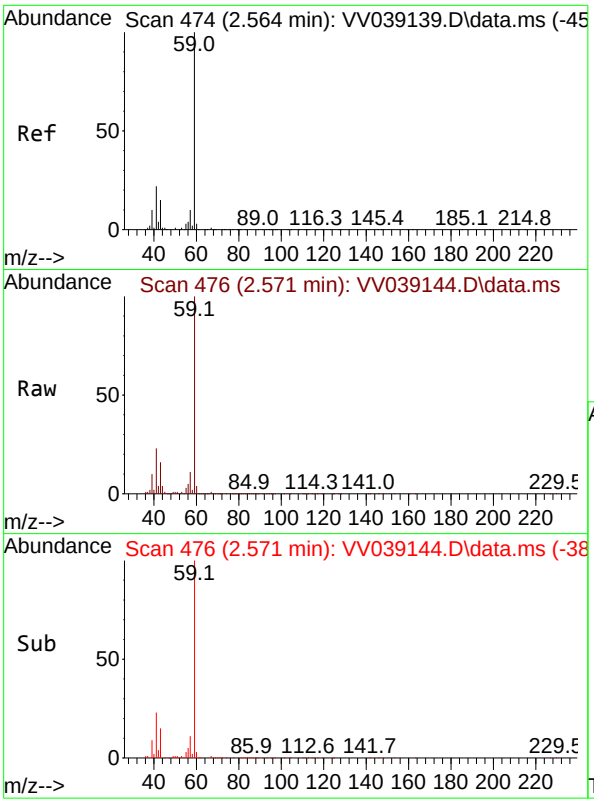




#10
Methyl Iodide
Concen: 49.783 ug/l
RT: 2.198 min Scan# 360
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:142 Resp: 394299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 45.7 | 36.3 | 54.5 |
| 141 | 13.8 | 11.2 | 16.8 |

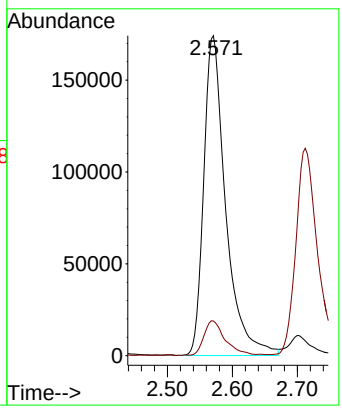





#11
Tert butyl alcohol
Concen: 252.173 ug/l
RT: 2.571 min Scan# 4
Delta R.T. 0.006 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 59 Resp: 40935

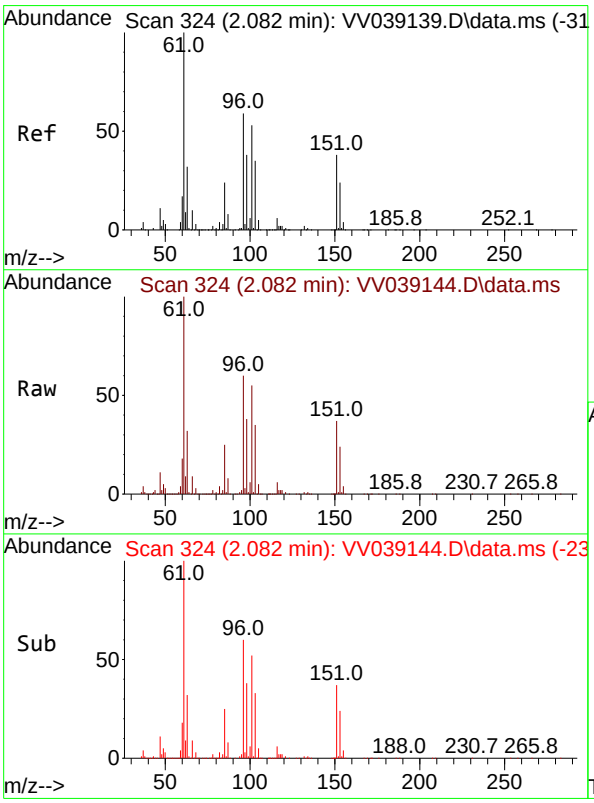
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.3 | 7.8 | 11.8 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations**
**APPROVED**

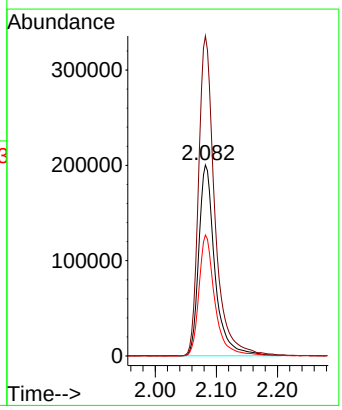
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

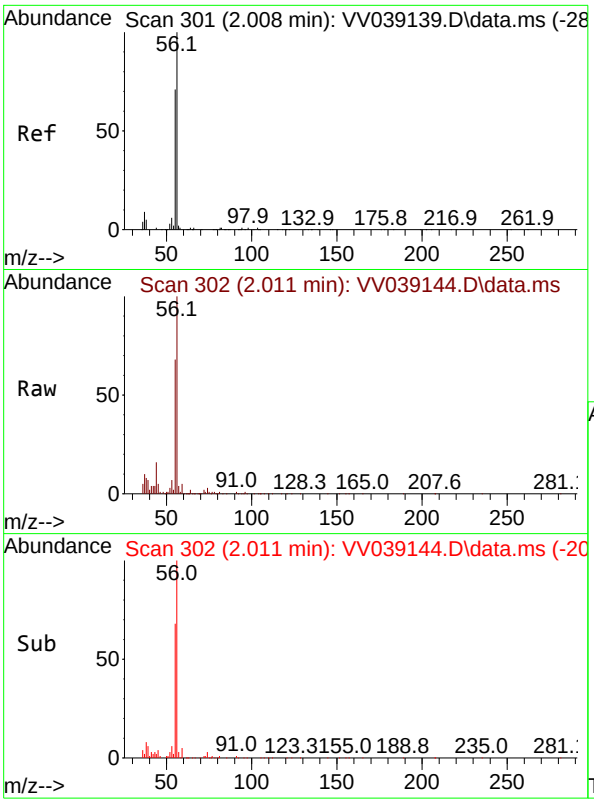



#12
1,1-Dichloroethene
Concen: 45.922 ug/l
RT: 2.082 min Scan# 324
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 96 Resp: 367440

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 167.5 | 136.0 | 204.0 |
| 98 | 63.3 | 51.0 | 76.6 |

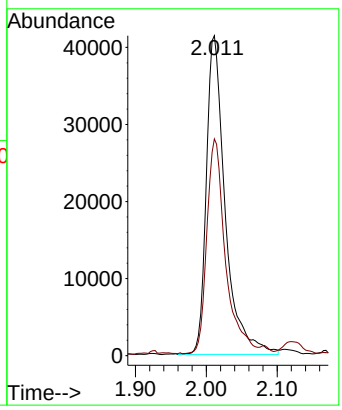





#13
Acrolein
Concen: 271.925 ug/l
RT: 2.011 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 56 Resp: 7659

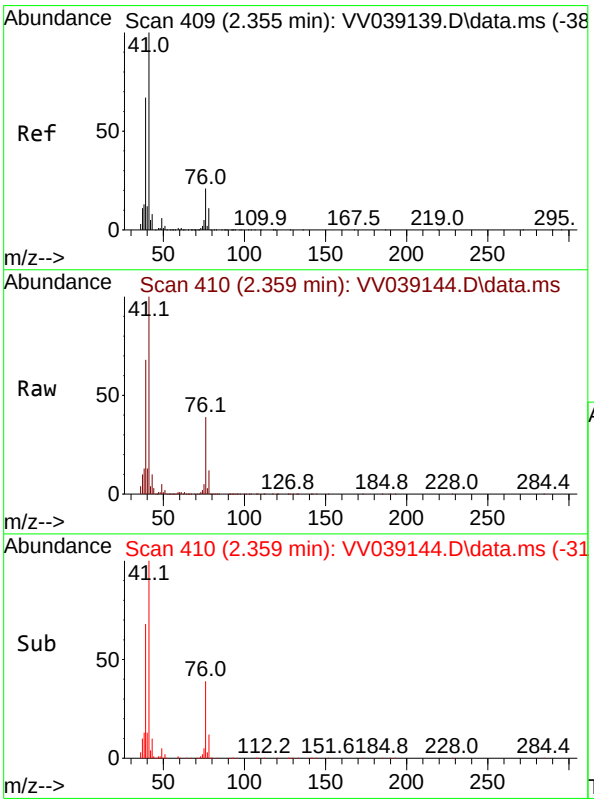
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 66.3 | 56.2 | 84.4 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations APPROVED**

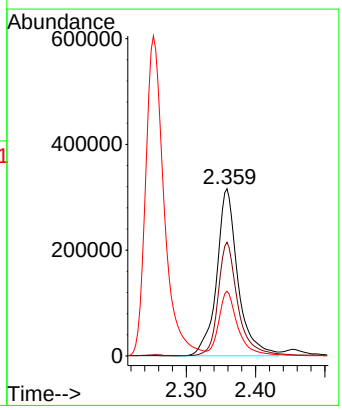
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

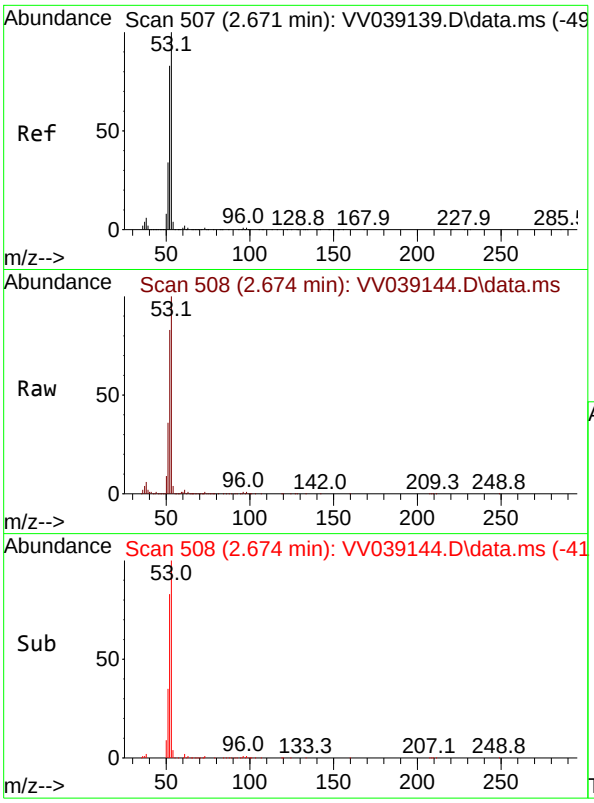



#14
Allyl chloride
Concen: 47.092 ug/l
RT: 2.359 min Scan# 410
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 41 Resp: 673070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 63.6 | 51.0 | 76.6 |
| 76 | 34.9 | 28.2 | 42.4 |

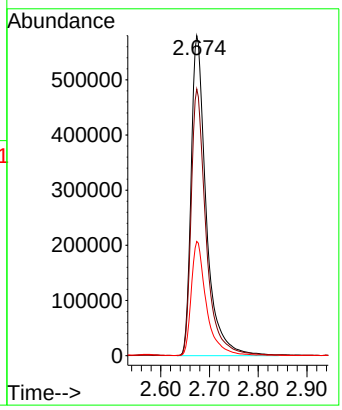





#15
Acrylonitrile
Concen: 239.637 ug/l
RT: 2.674 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 53 Resp: 124702

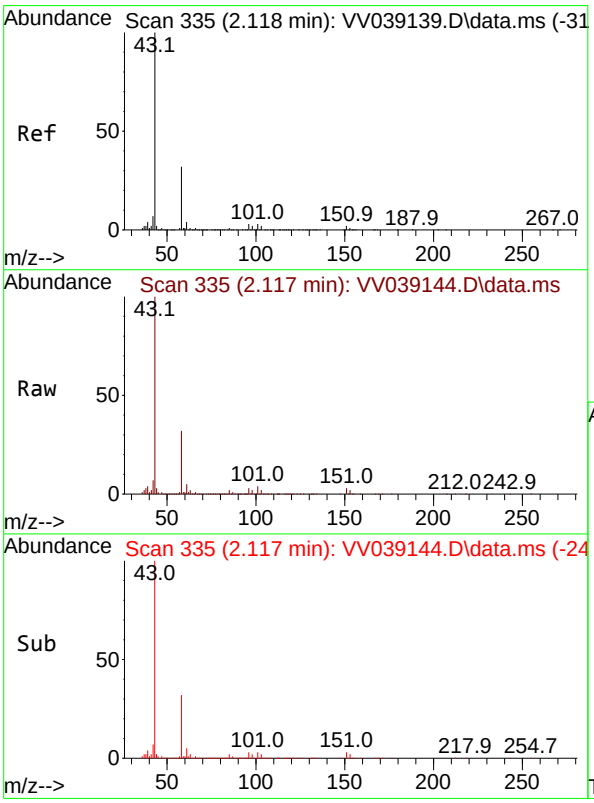
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.2 | 66.1 | 99.1 |
| 51 | 35.7 | 28.5 | 42.7 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations APPROVED**

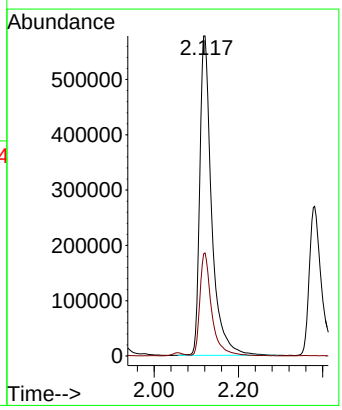
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

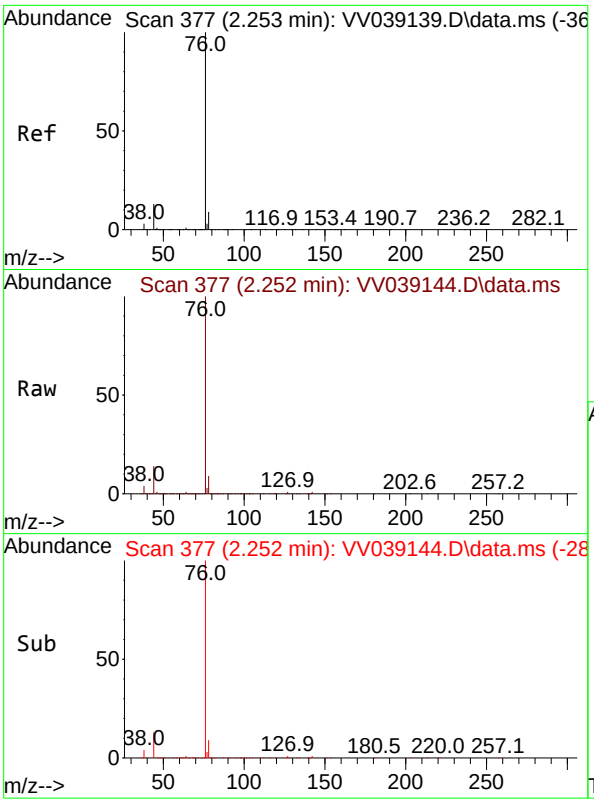



#16
Acetone
Concen: 237.325 ug/l
RT: 2.117 min Scan# 335
Delta R.T. -0.001 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 43 Resp: 1131047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.9 | 25.8 | 38.6 |

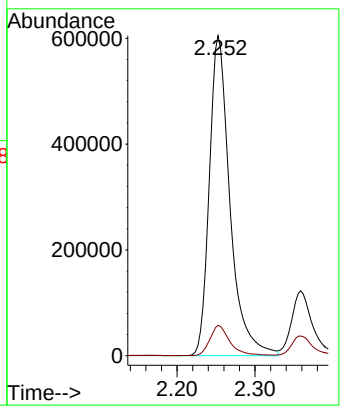





#17
Carbon Disulfide
Concen: 45.563 ug/l
RT: 2.252 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 76 Resp: 111493

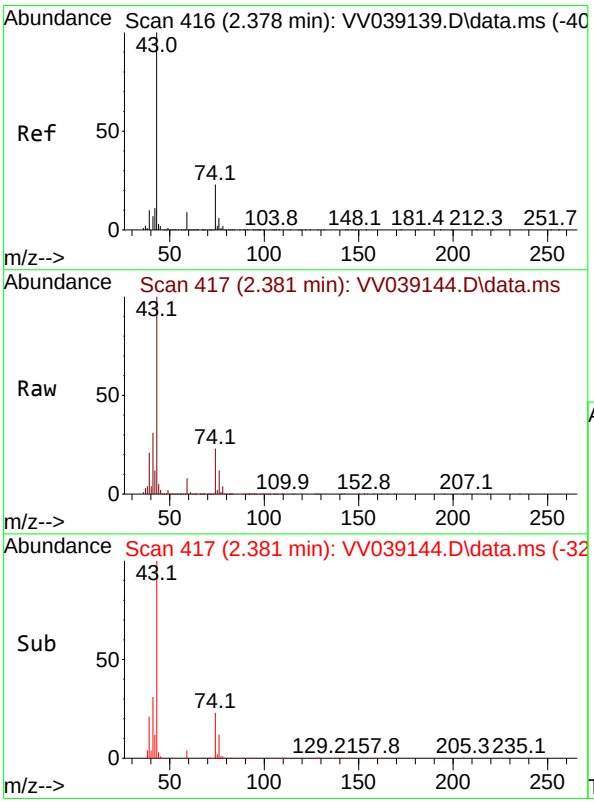
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.5 | 7.4 | 11.0 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations APPROVED**

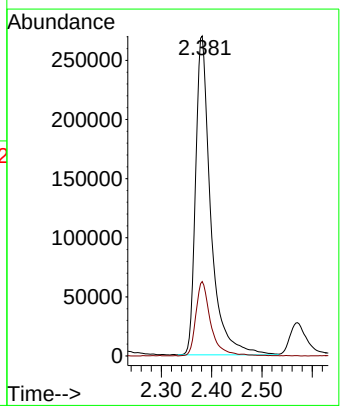
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

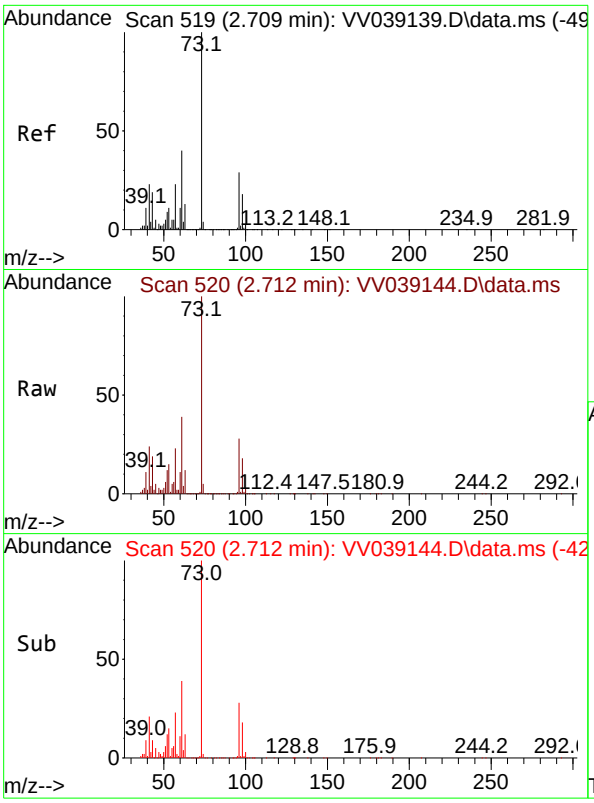



#18
Methyl Acetate
Concen: 49.579 ug/l
RT: 2.381 min Scan# 417
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 43 Resp: 564211

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 22.6 | 18.6 | 27.8 |

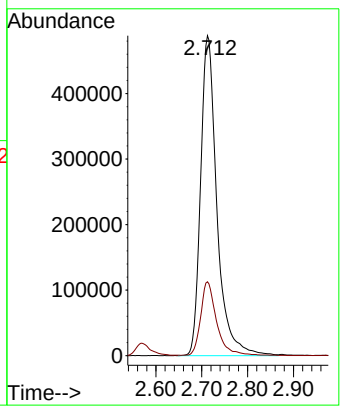





#19
Methyl tert-butyl Ether
Concen: 47.223 ug/l
RT: 2.712 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 73 Resp: 120402

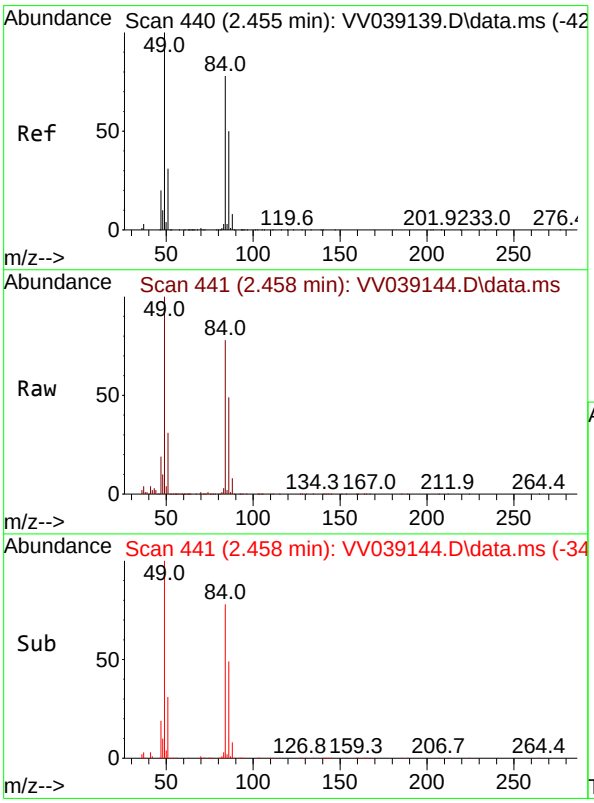
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 23.0 | 18.2 | 27.4 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations**
**APPROVED**

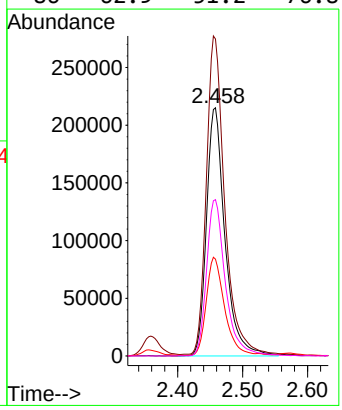
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

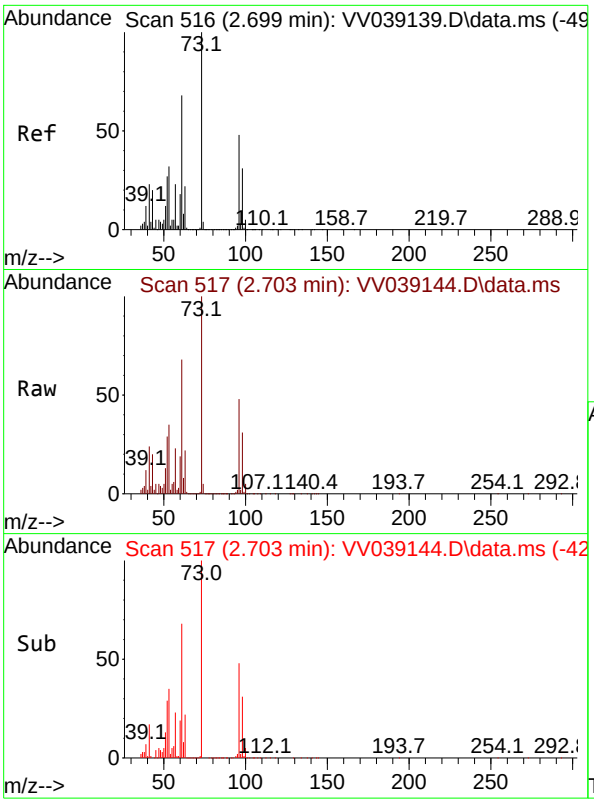



#20
Methylene Chloride
Concen: 51.536 ug/l
RT: 2.458 min Scan# 441
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 84 Resp: 426790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 127.1 | 102.8 | 154.2 |
| 51 | 38.7 | 31.9 | 47.9 |
| 86 | 62.9 | 51.2 | 76.8 |

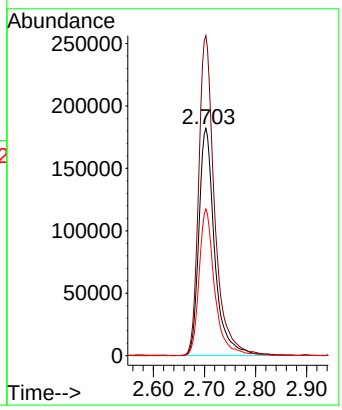





#21
trans-1,2-Dichloroethene
Concen: 45.915 ug/l
RT: 2.703 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 96 Resp: 39110

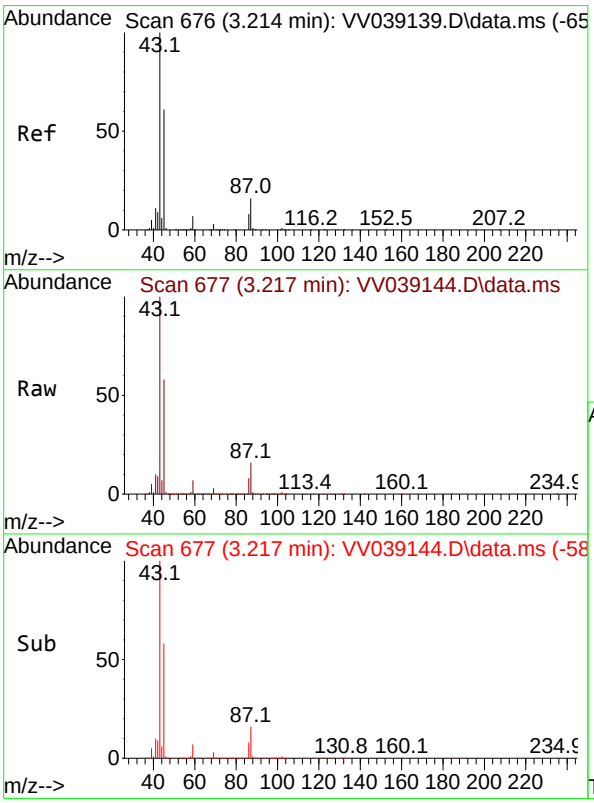
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 140.9 | 112.8 | 169.2 |
| 98 | 64.6 | 51.1 | 76.7 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations APPROVED**

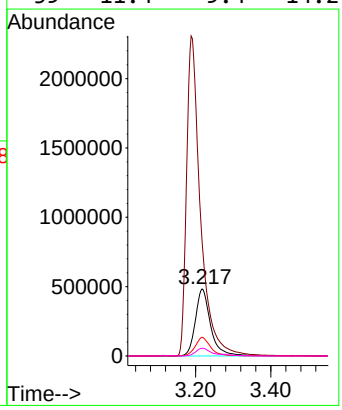
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

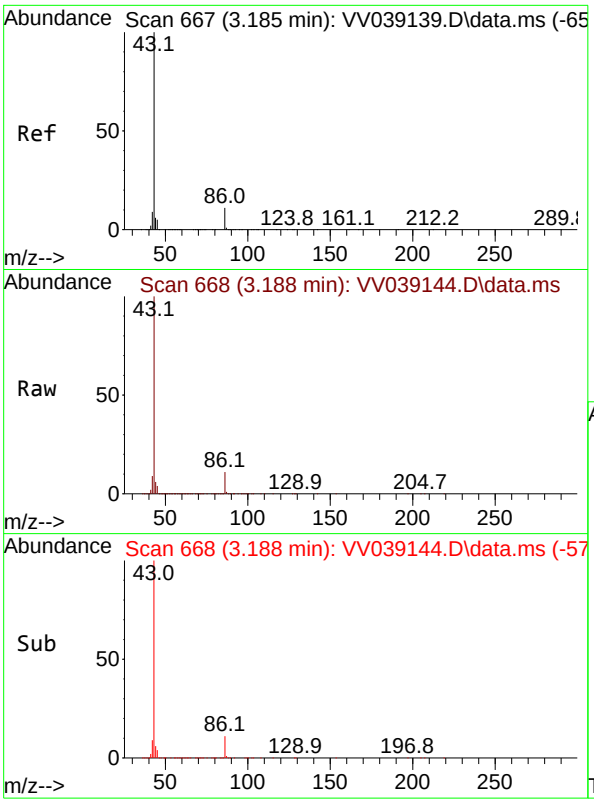



#22
Diisopropyl ether
Concen: 49.556 ug/l
RT: 3.217 min Scan# 677
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 45 Resp: 1355158

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 170.9 | 130.9 | 196.3 |
| 87 | 27.9 | 21.1 | 31.7 |
| 59 | 11.4 | 9.4 | 14.2 |

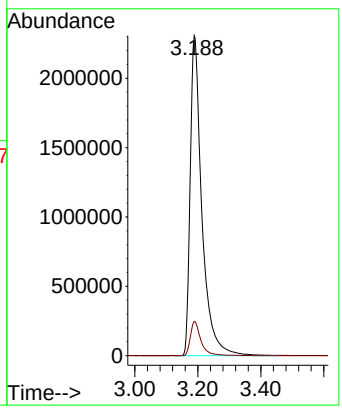





#23
Vinyl Acetate
Concen: 248.597 ug/l
RT: 3.188 min Scan# 6
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 43 Resp: 594689

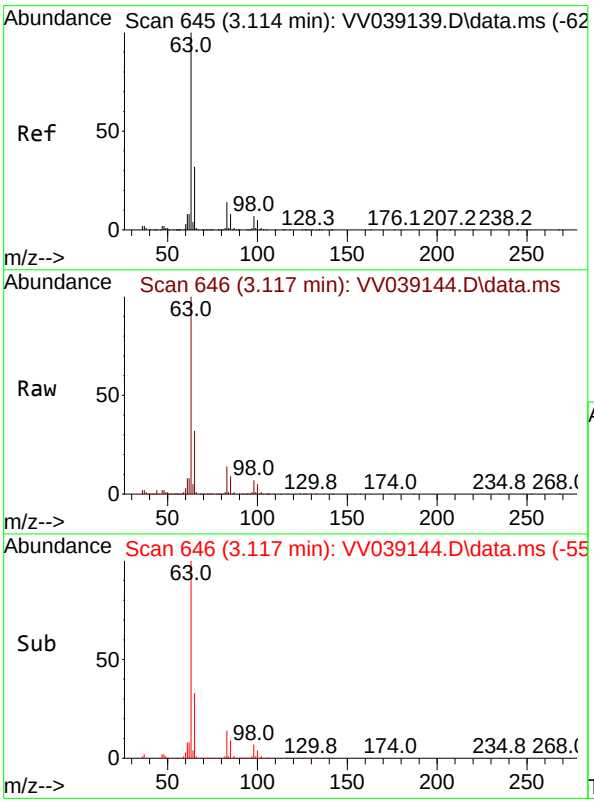
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.7 | 8.4 | 12.6 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations APPROVED**

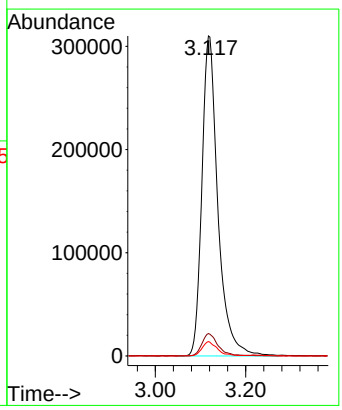
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

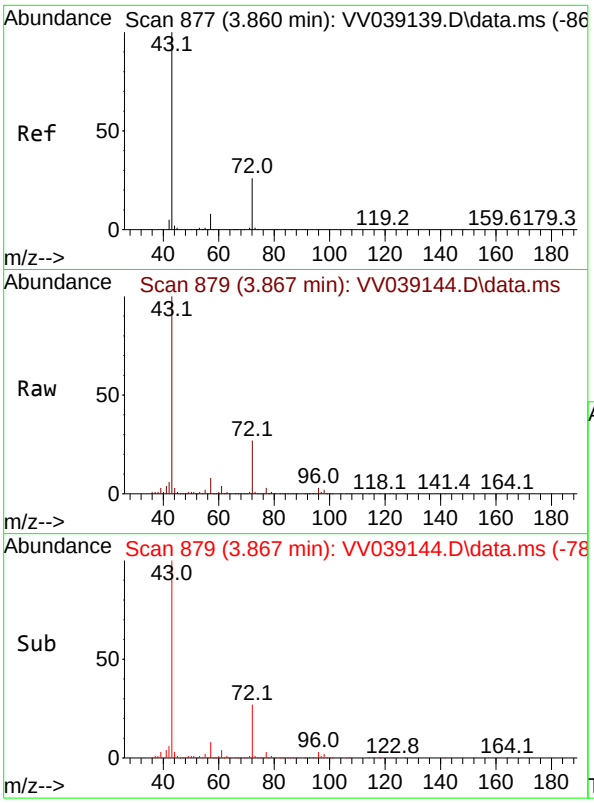



#24
1,1-Dichloroethane
Concen: 45.536 ug/l
RT: 3.117 min Scan# 646
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 63 Resp: 761495

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.0 | 3.4 | 10.2 |
| 100 | 4.5 | 2.2 | 6.6 |

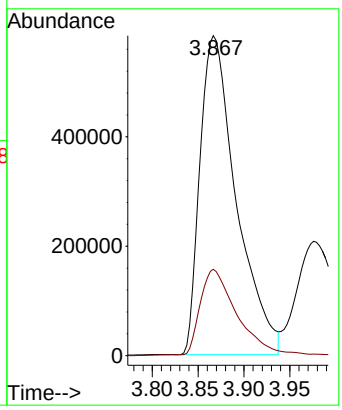





#25
2-Butanone
Concen: 262.050 ug/l
RT: 3.867 min Scan# 8
Delta R.T. 0.006 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 43 Resp: 161171

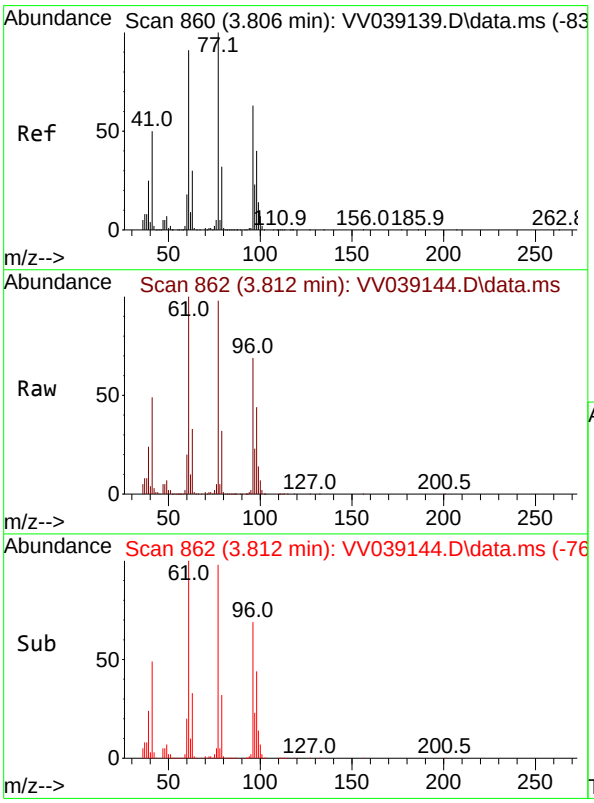
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 26.8 | 21.0 | 31.6 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations**
**APPROVED**

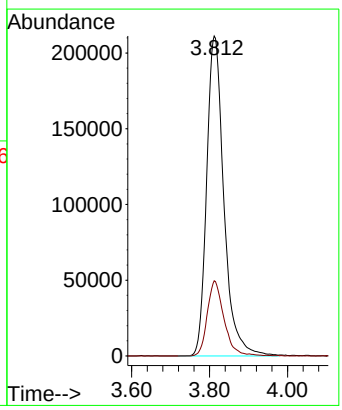
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

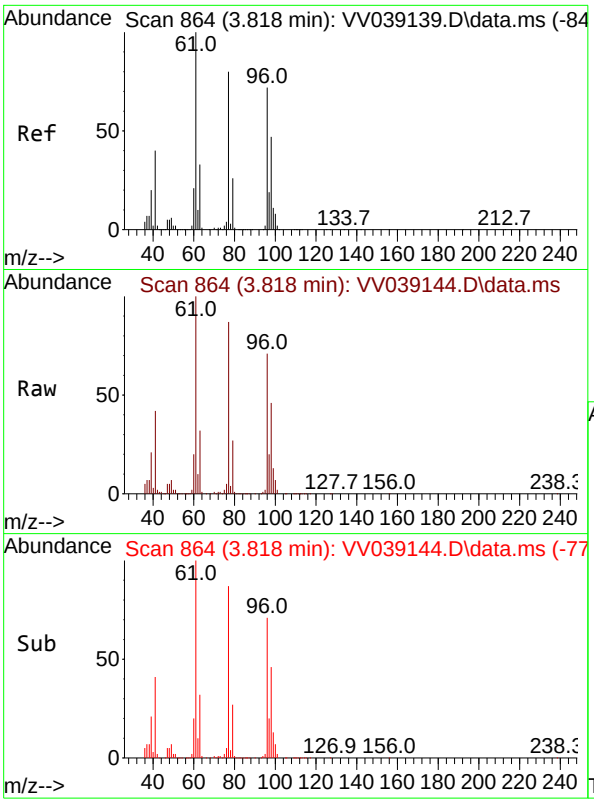



#26
2,2-Dichloropropane
Concen: 43.721 ug/l
RT: 3.812 min Scan# 862
Delta R.T. 0.006 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 77 Resp: 648277

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.5 | 11.6 | 34.7 |

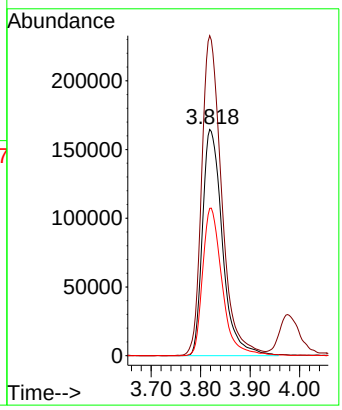





#27
cis-1,2-Dichloroethene
Concen: 48.960 ug/l
RT: 3.818 min Scan# 8
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 96 Resp: 45995

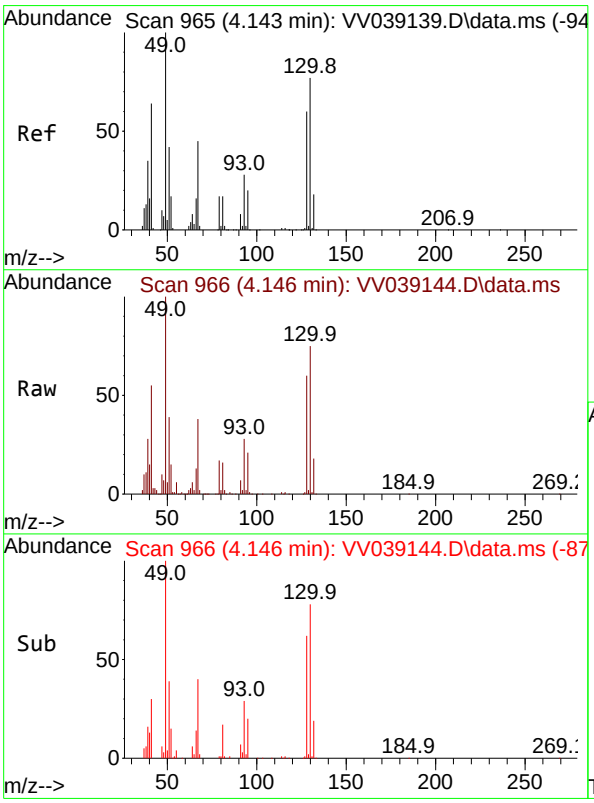
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 142.3 | 0.0 | 286.4 |
| 98 | 63.9 | 0.0 | 126.6 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations APPROVED**

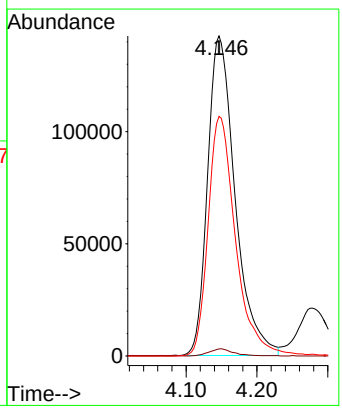
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

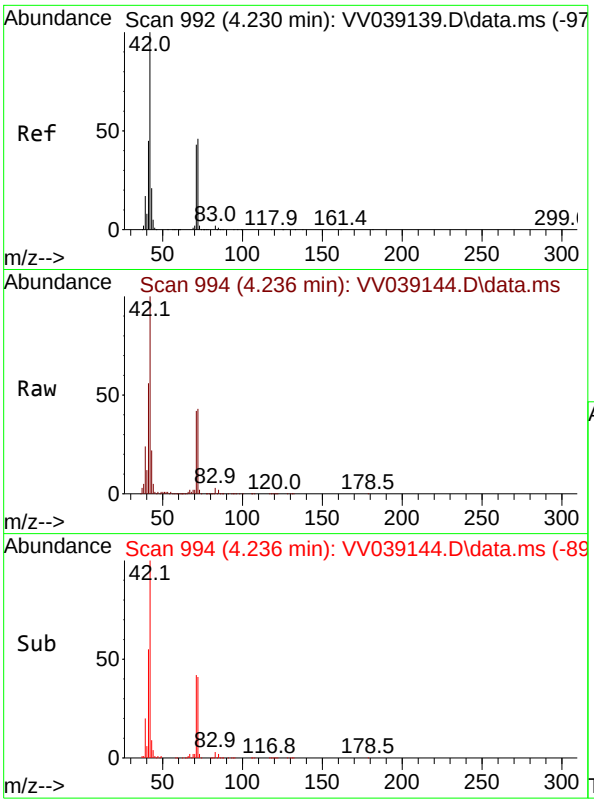



#28
Bromochloromethane
Concen: 52.149 ug/l
RT: 4.146 min Scan# 966
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 49 Resp: 384995

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.0 | 0.0 | 4.2 |
| 130 | 74.8 | 60.2 | 90.2 |

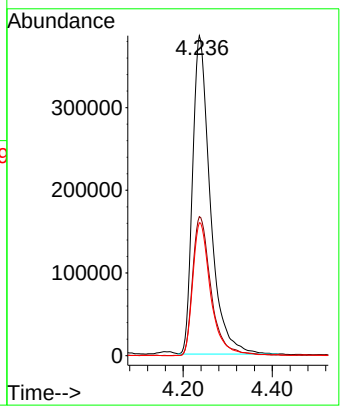





#29
Tetrahydrofuran
Concen: 276.528 ug/l
RT: 4.236 min Scan# 9
Delta R.T. 0.006 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 42 Resp: 106454

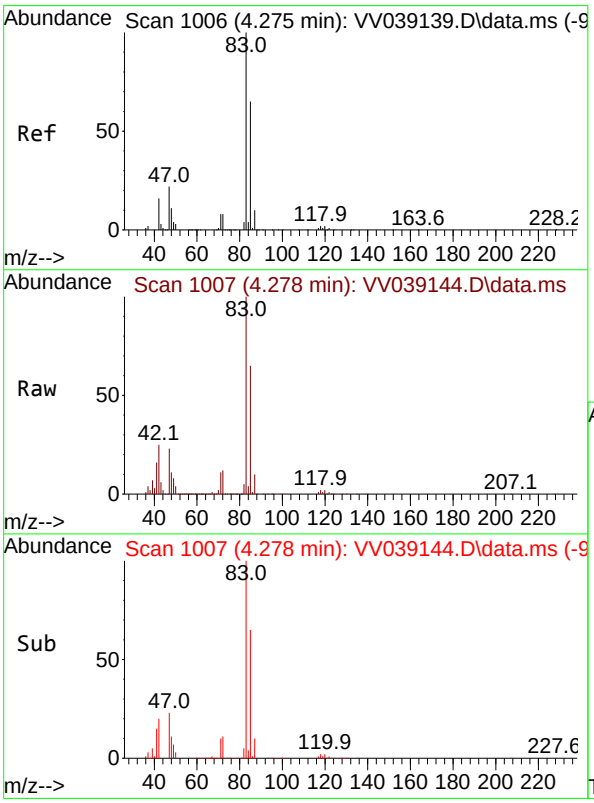
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 45.2 | 36.3 | 54.5 |
| 71 | 42.4 | 34.3 | 51.5 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations APPROVED**

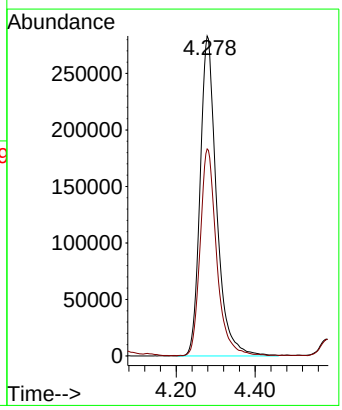
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

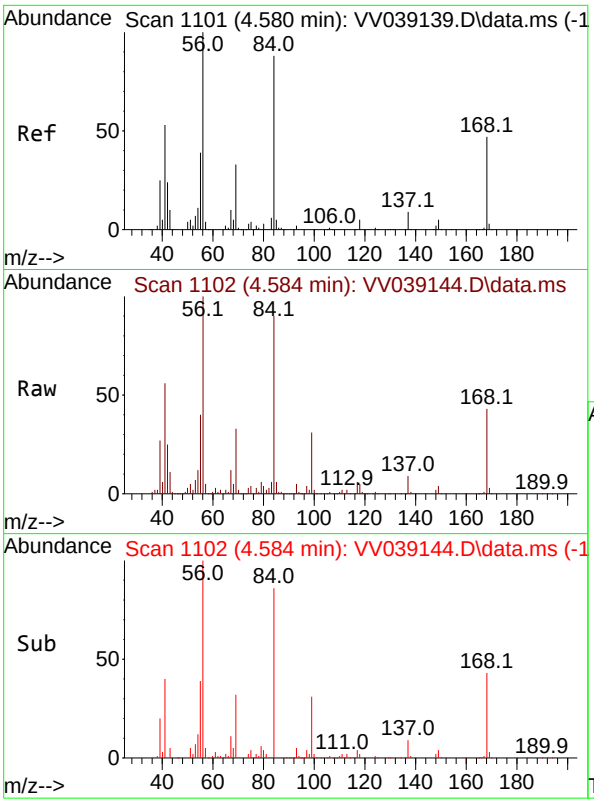



#30
Chloroform
Concen: 46.980 ug/l
RT: 4.278 min Scan# 1007
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 83 Resp: 820367

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.6 | 52.1 | 78.1 |

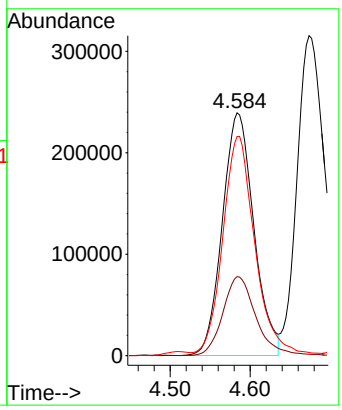





#31
Cyclohexane
Concen: 47.799 ug/l
RT: 4.584 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 56 Resp: 65480

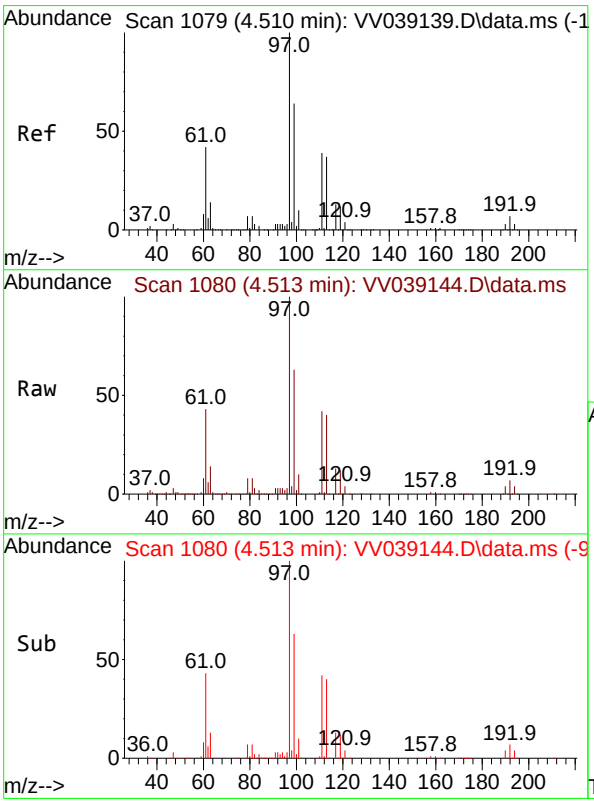
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 32.5 | 26.2 | 39.2 |
| 84 | 88.6 | 70.3 | 105.5 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations**
**APPROVED**

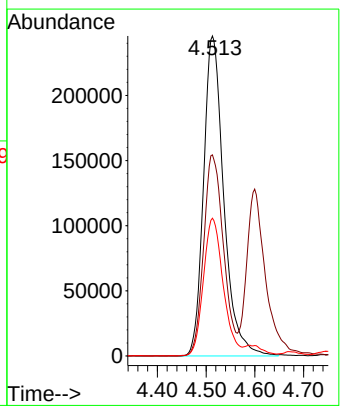
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

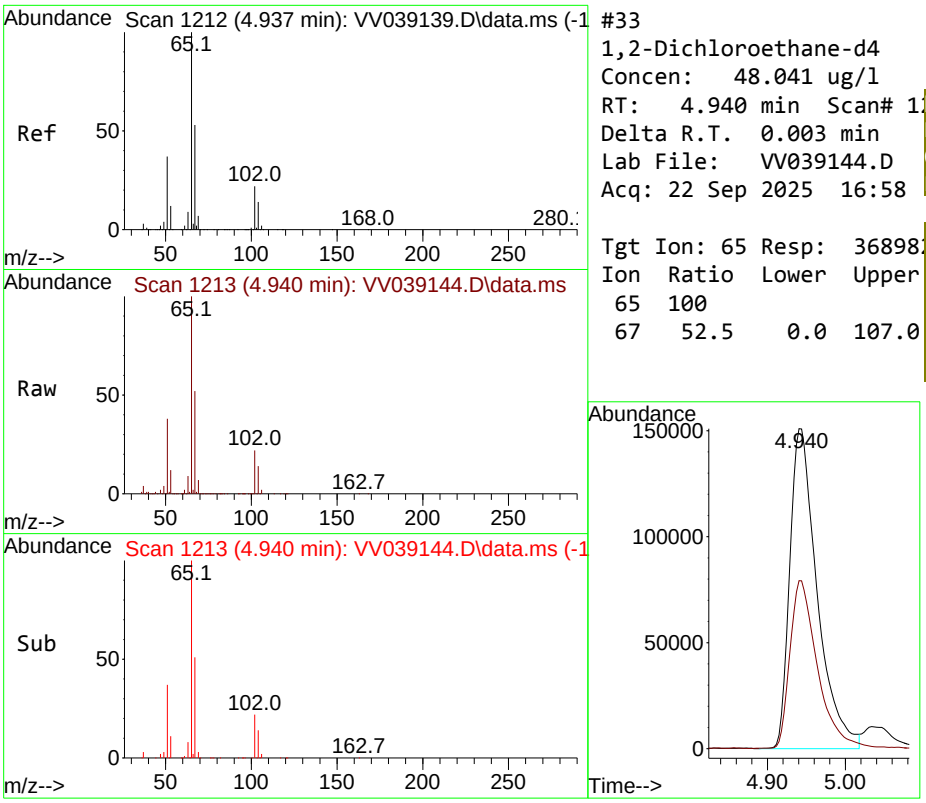



#32
1,1,1-Trichloroethane
Concen: 46.922 ug/l
RT: 4.513 min Scan# 1080
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 97 Resp: 709351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 61.4 | 49.6 | 74.4 |
| 61 | 42.0 | 34.5 | 51.7 |






#33
1,2-Dichloroethane-d4
Concen: 48.041 ug/l
RT: 4.940 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 65 Resp: 36898

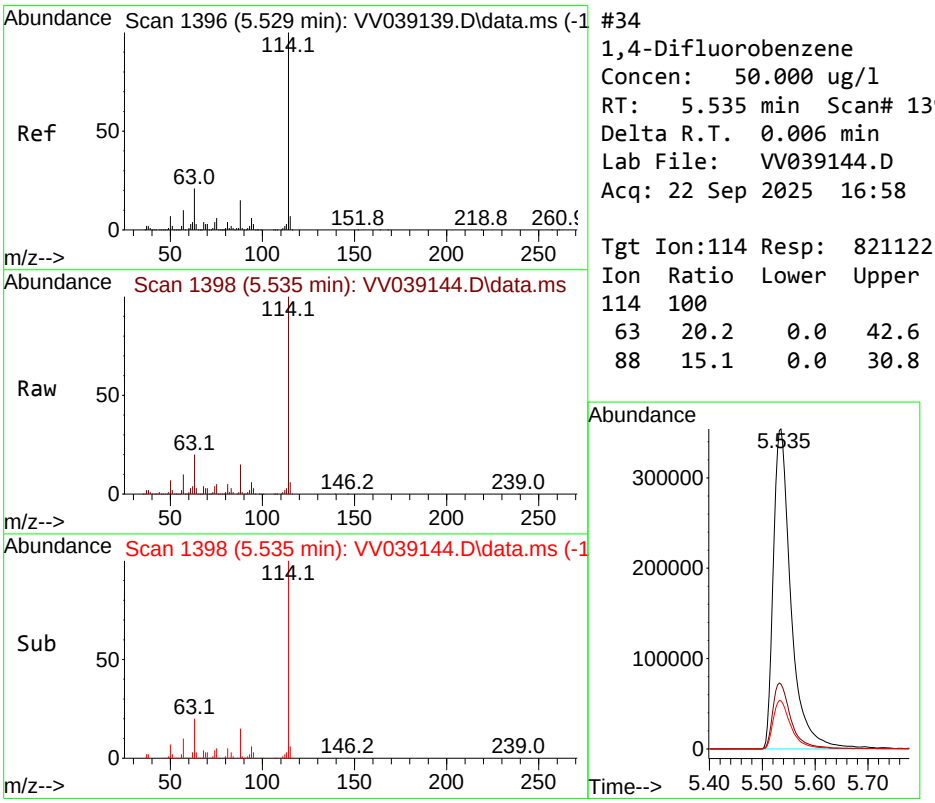
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.5 | 0.0 | 107.0 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations APPROVED**

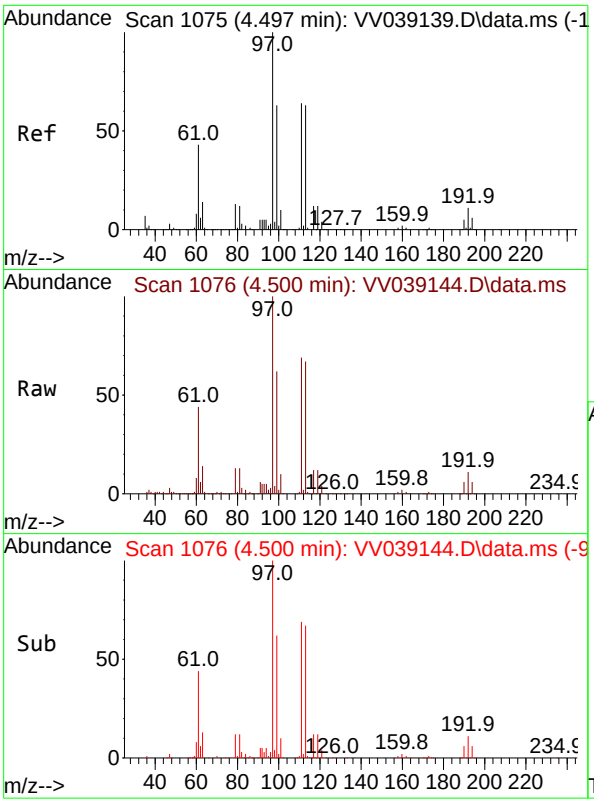
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:114 Resp: 821122

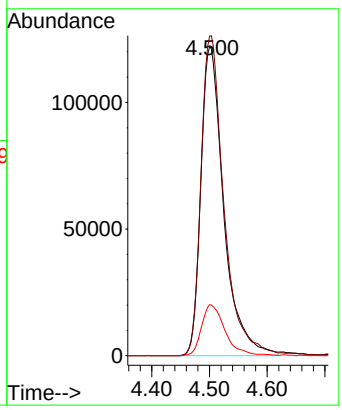
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.2 | 0.0 | 42.6 |
| 88 | 15.1 | 0.0 | 30.8 |




#35
Dibromofluoromethane
Concen: 50.832 ug/l
RT: 4.500 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:113 Resp: 33554

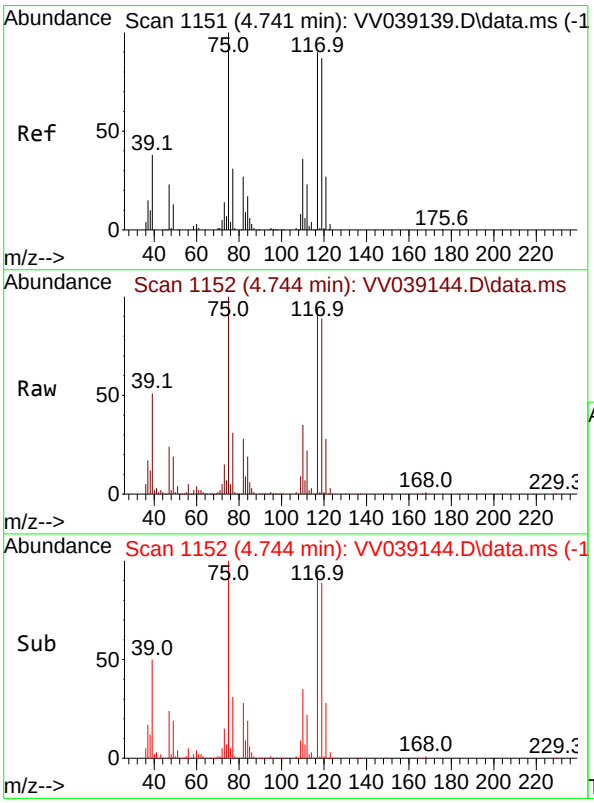
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.7 | 82.4 | 123.6 |
| 192 | 16.8 | 13.8 | 20.8 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations**
**APPROVED**

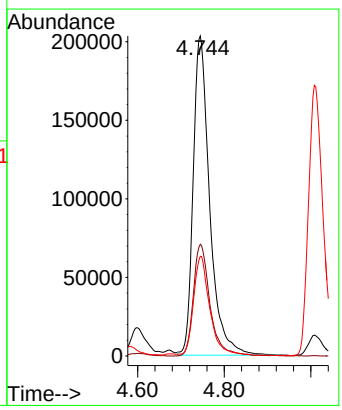
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

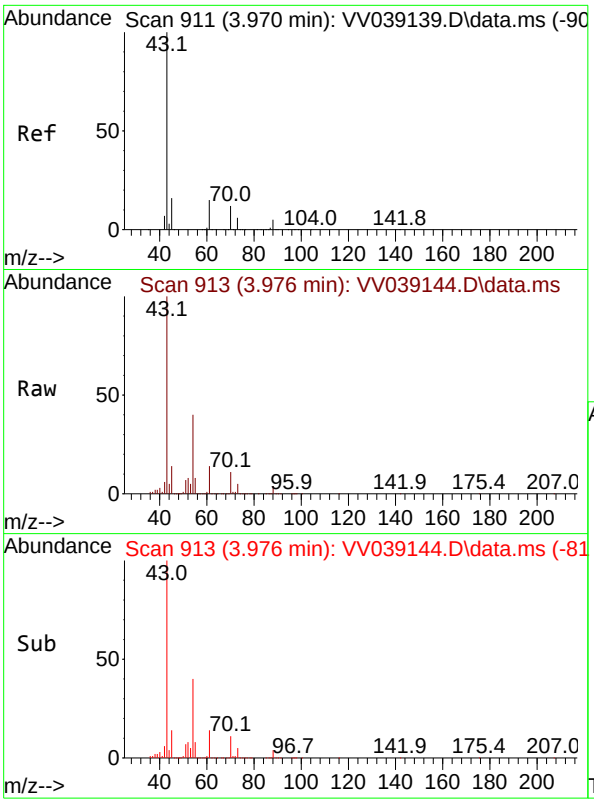



#36
1,1-Dichloropropene
Concen: 53.809 ug/l
RT: 4.744 min Scan# 1152
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 75 Resp: 537027

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.3 | 18.1 | 54.1 |
| 77 | 30.4 | 24.8 | 37.2 |






#37
Ethyl Acetate
Concen: 52.050 ug/l
RT: 3.976 min Scan# 9
Delta R.T. 0.006 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

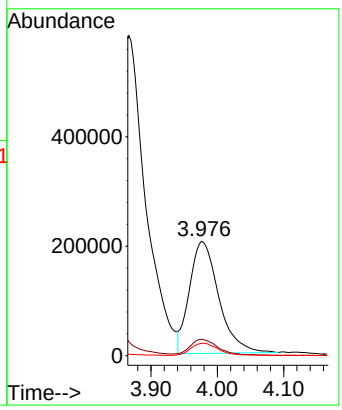
Tgt Ion: 43 Resp: 63034

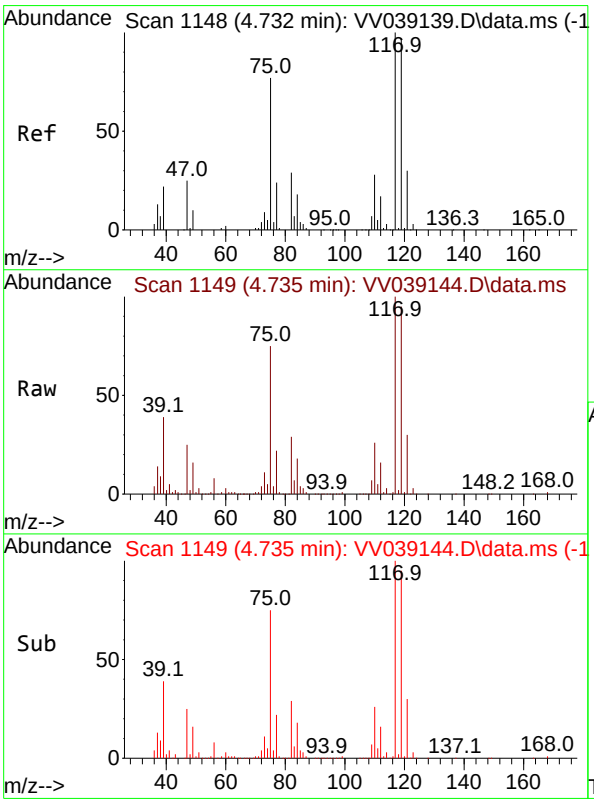
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 12.4 | 10.3 | 15.5 |
| 70 | 10.3 | 8.0 | 12.0 |

**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

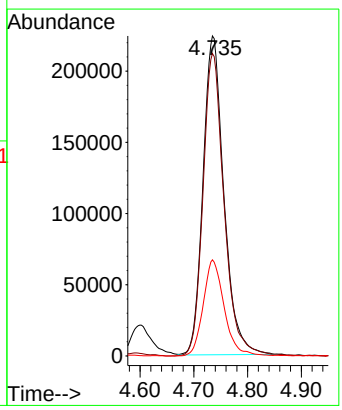


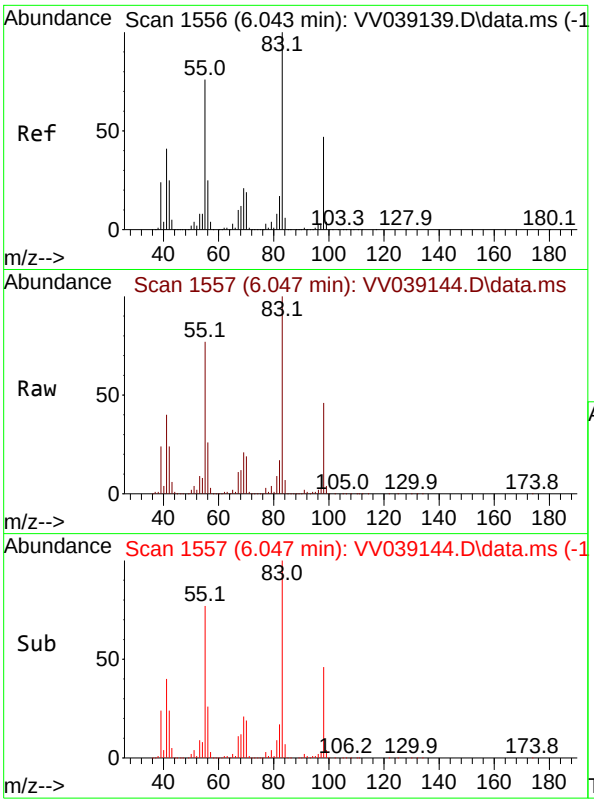




#38
Carbon Tetrachloride
Concen: 49.452 ug/l
RT: 4.735 min Scan# 1149
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:117 Resp: 603187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.9 | 77.2 | 115.8 |
| 121 | 30.1 | 24.2 | 36.2 |

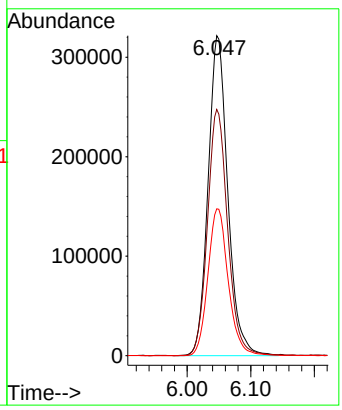





#39
Methylcyclohexane
Concen: 57.426 ug/l
RT: 6.047 min Scan# 1
Delta R.T. 0.004 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 83 Resp: 69213

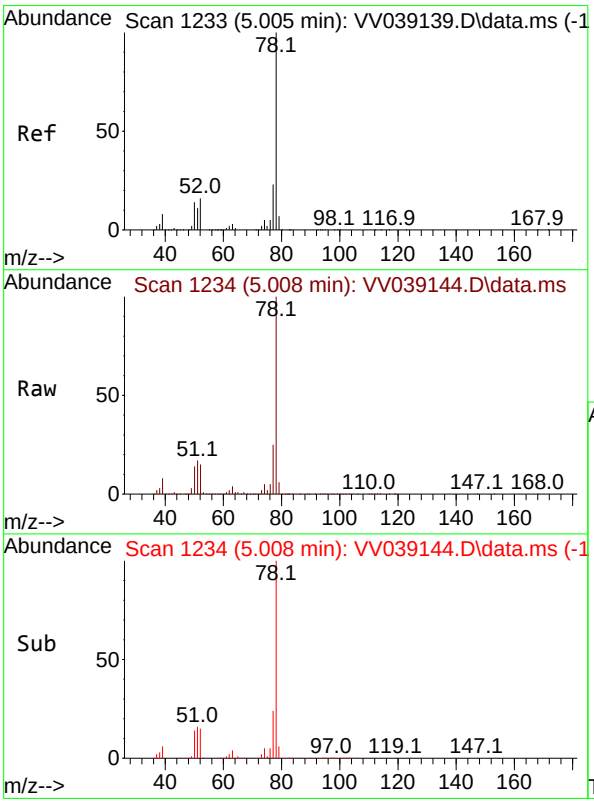
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 76.9 | 60.5 | 90.7 |
| 98 | 45.9 | 37.8 | 56.6 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations**
**APPROVED**

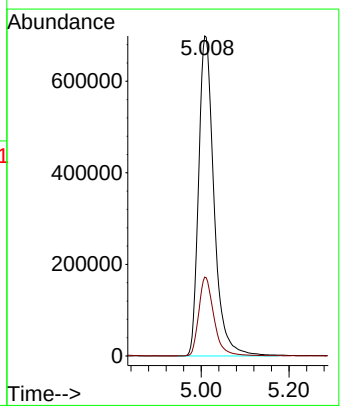
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

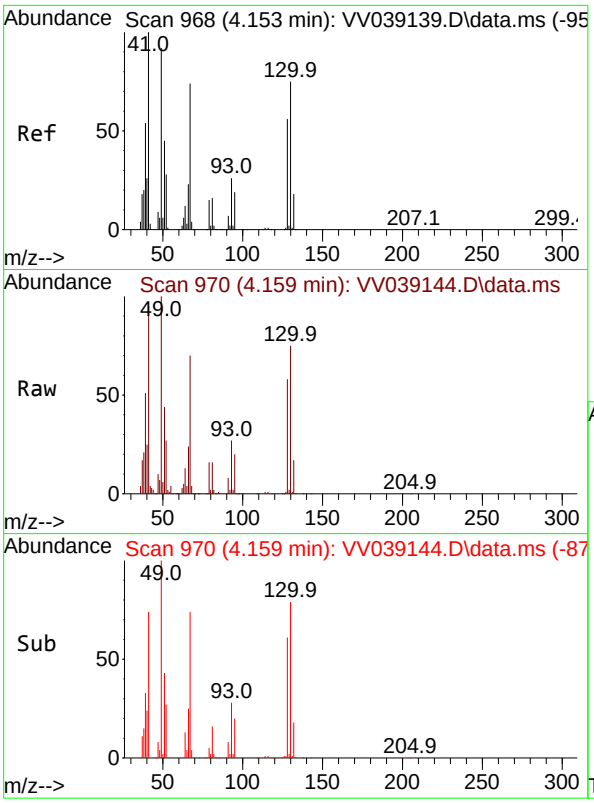



#40
Benzene
Concen: 52.293 ug/l
RT: 5.008 min Scan# 1234
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 78 Resp: 1699505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.6 | 18.7 | 28.1 |

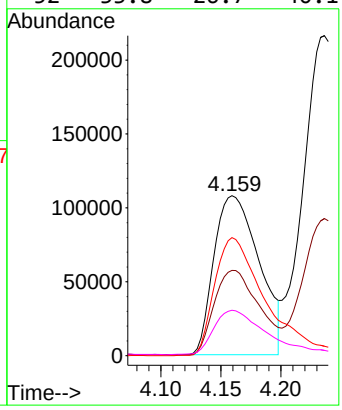





#41
Methacrylonitrile
Concen: 51.602 ug/l
RT: 4.159 min Scan# 9
Delta R.T. 0.006 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 41 Resp: 28289

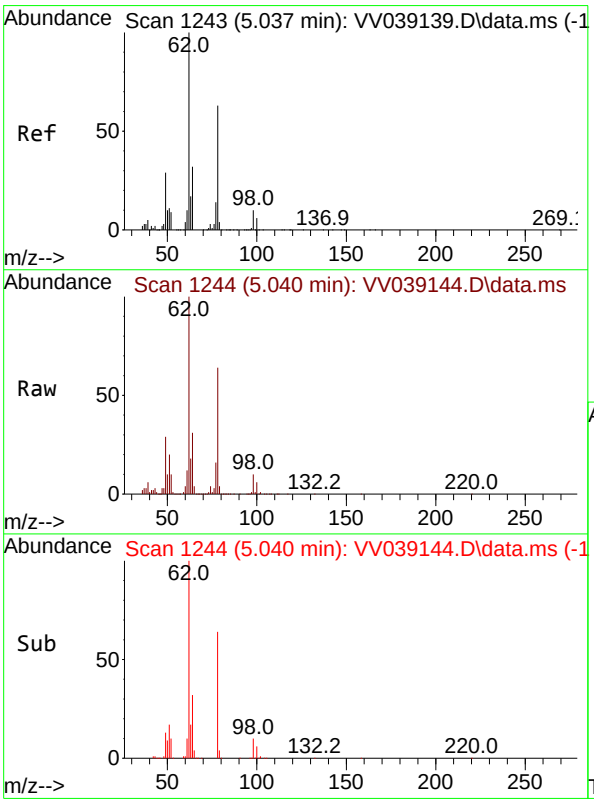
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 53.6 | 42.2 | 63.2 |
| 67 | 86.4 | 67.9 | 101.9 |
| 52 | 33.8 | 26.7 | 40.1 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations**
**APPROVED**

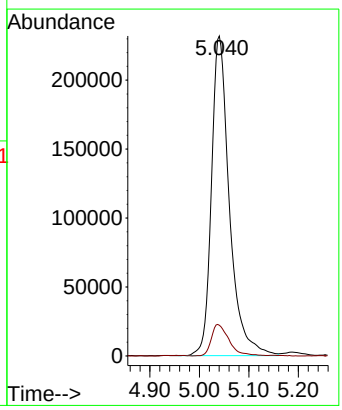
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

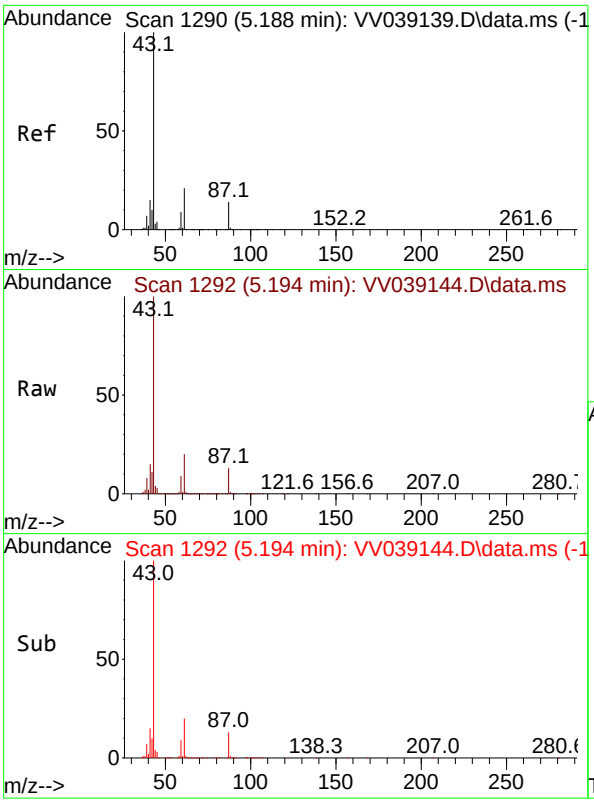



#42
1,2-Dichloroethane
Concen: 51.245 ug/l
RT: 5.040 min Scan# 1244
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 62 Resp: 583550

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.8 | 0.0 | 19.2 |

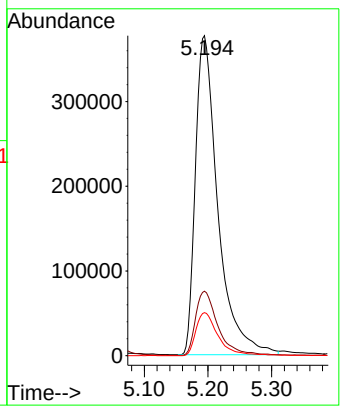





#43
Isopropyl Acetate
Concen: 55.998 ug/l
RT: 5.194 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 43 Resp: 92465

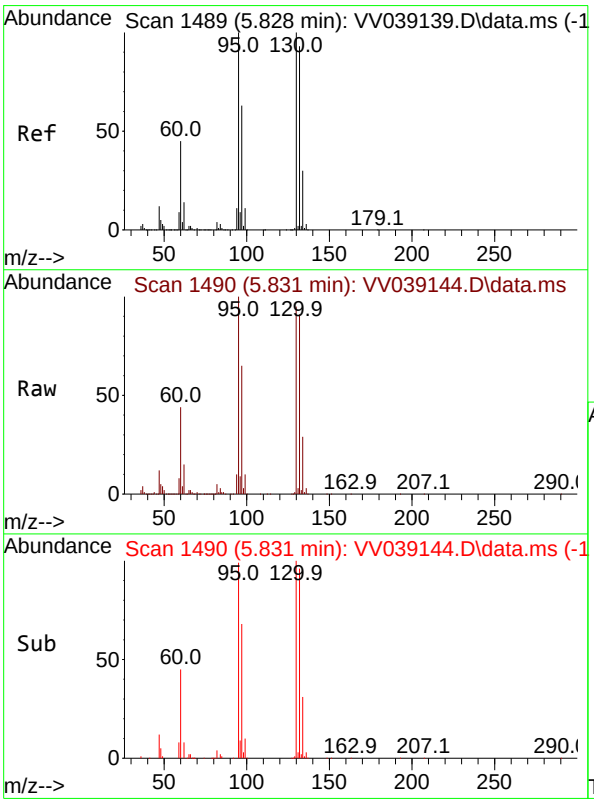
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 20.1 | 15.9 | 23.9 |
| 87 | 13.2 | 11.0 | 16.6 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations APPROVED**

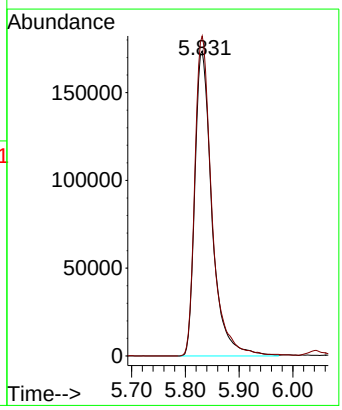
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

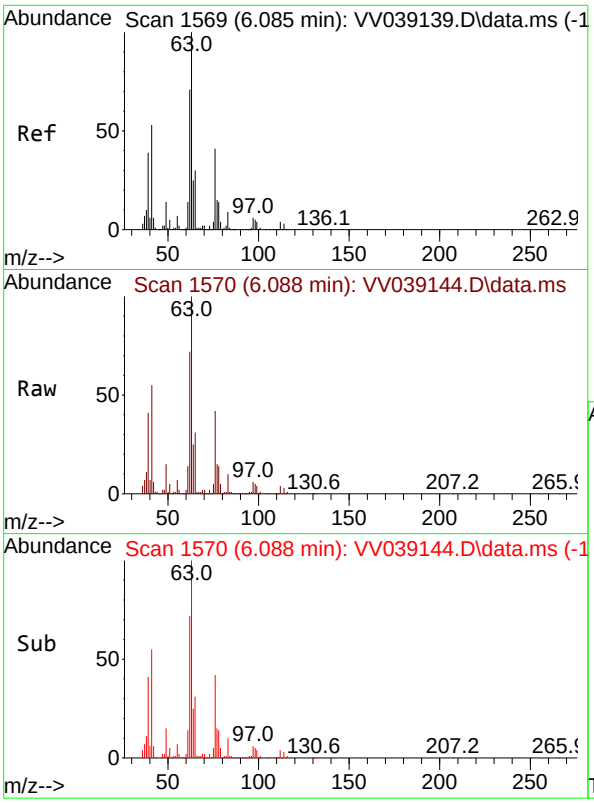



#44
Trichloroethene
Concen: 51.216 ug/l
RT: 5.831 min Scan# 1490
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:130 Resp: 384092

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 104.9 | 0.0 | 199.2 |

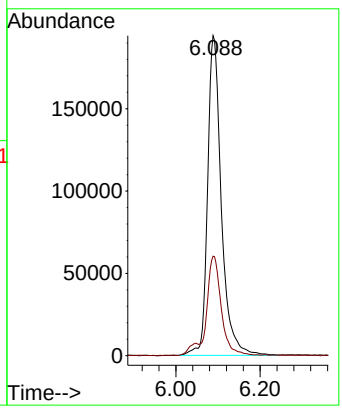





#45
1,2-Dichloropropane
Concen: 54.495 ug/l
RT: 6.088 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 63 Resp: 44021

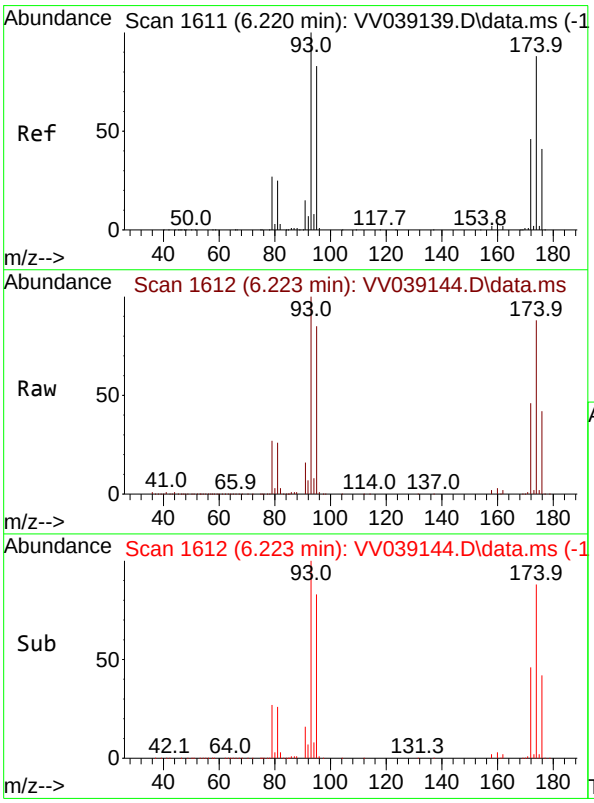
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.0 | 23.7 | 35.5 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations APPROVED**

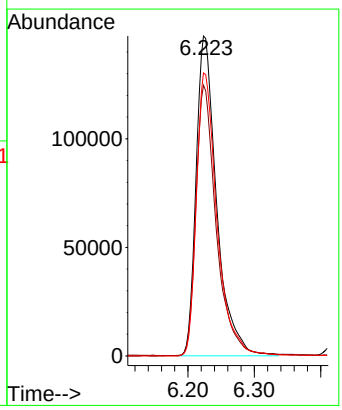
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

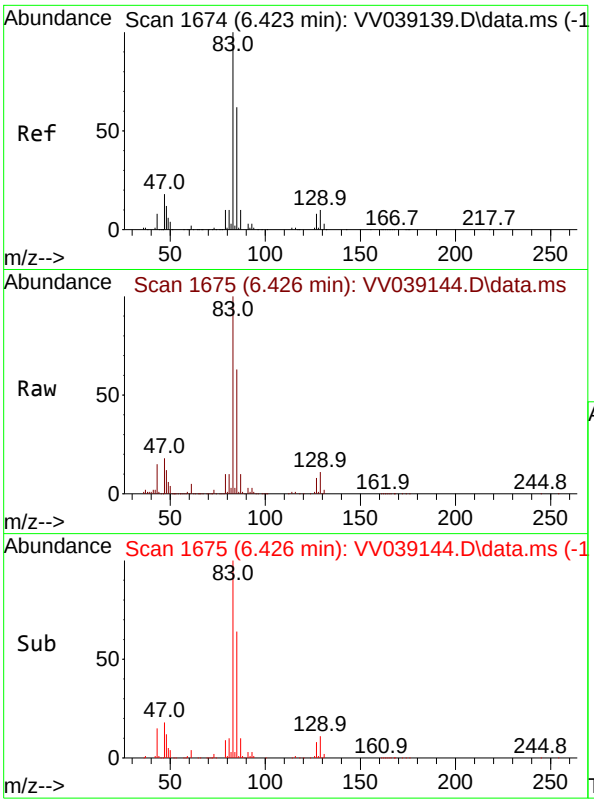



#46
Dibromomethane
Concen: 51.116 ug/l
RT: 6.223 min Scan# 1612
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 93 Resp: 316032

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 83.8 | 65.5 | 98.3 |
| 174 | 89.0 | 69.0 | 103.4 |

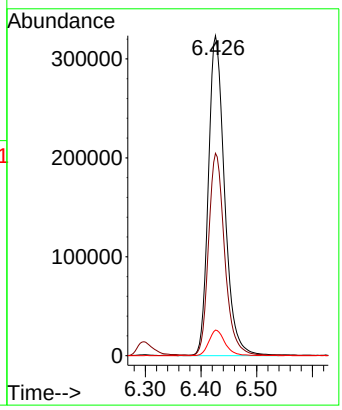





#47
Bromodichloromethane
Concen: 51.232 ug/l
RT: 6.426 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 83 Resp: 65483

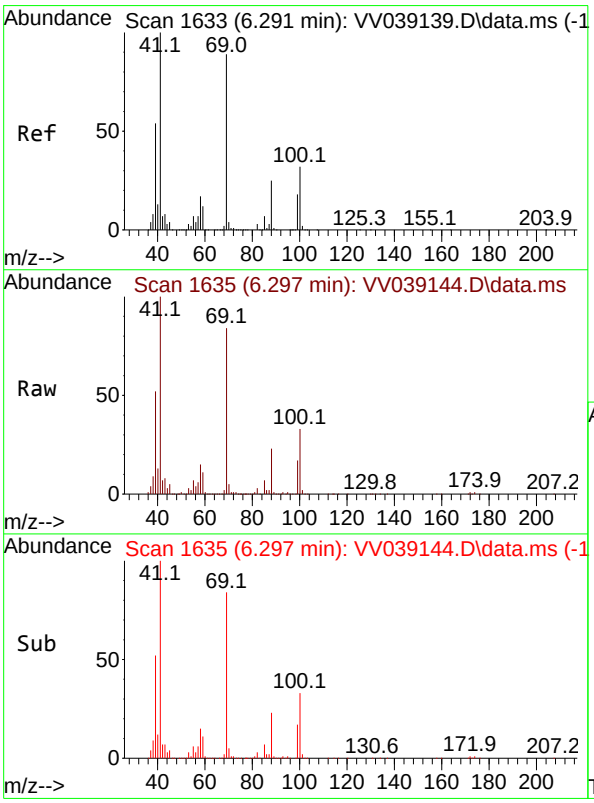
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.0 | 49.7 | 74.5 |
| 127 | 8.0 | 6.6 | 9.8 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations**
**APPROVED**

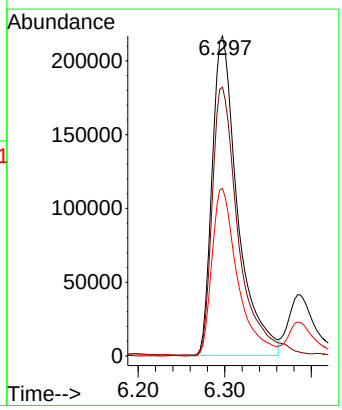
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

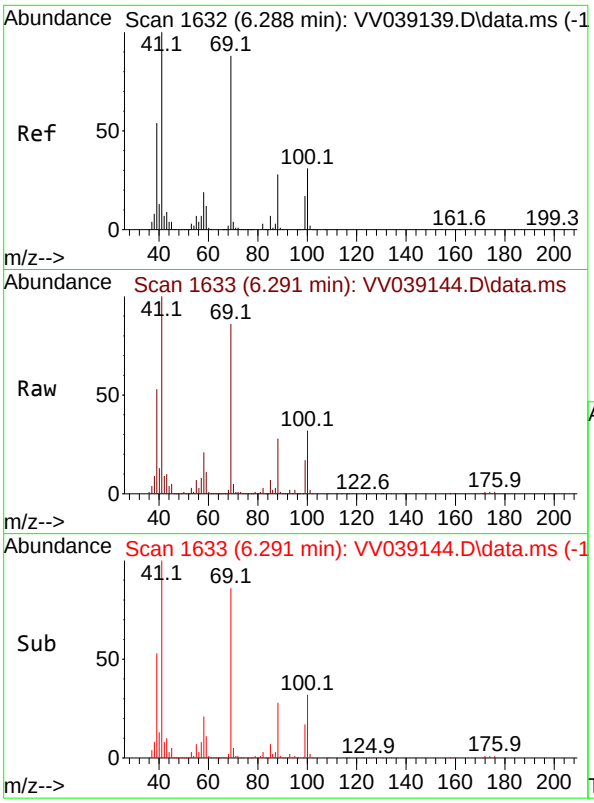



#48
Methyl methacrylate
Concen: 59.104 ug/l
RT: 6.297 min Scan# 1635
Delta R.T. 0.006 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 41 Resp: 442395

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 87.4 | 72.4 | 108.6 |
| 39 | 52.6 | 42.5 | 63.7 |

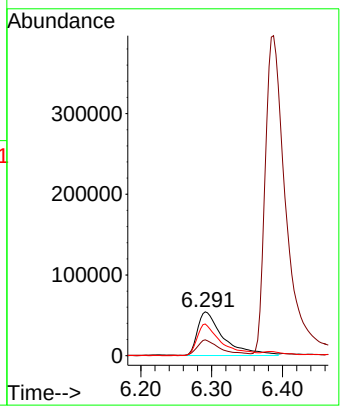





#49
1,4-Dioxane
Concen: 1133.346 ug/l
RT: 6.291 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 88 Resp: 136899

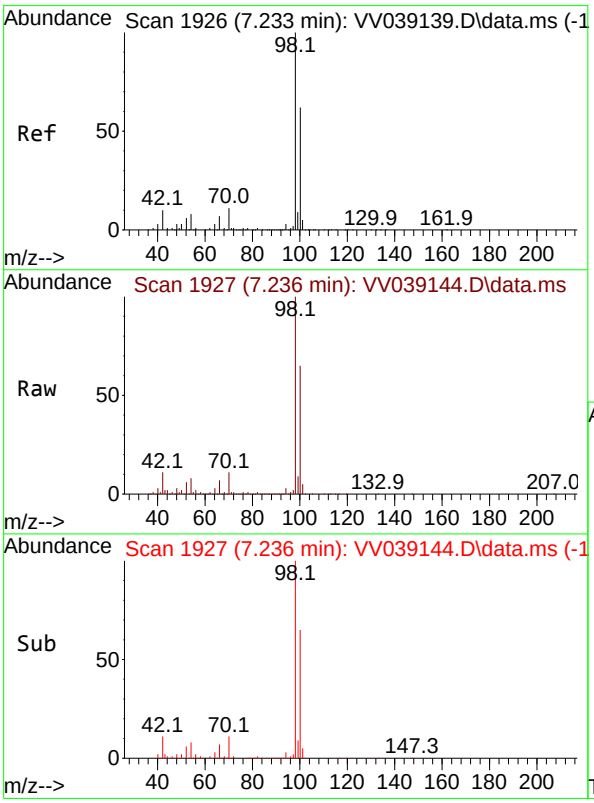
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 31.1 | 25.1 | 37.7 |
| 58 | 67.8 | 53.6 | 80.4 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations APPROVED**

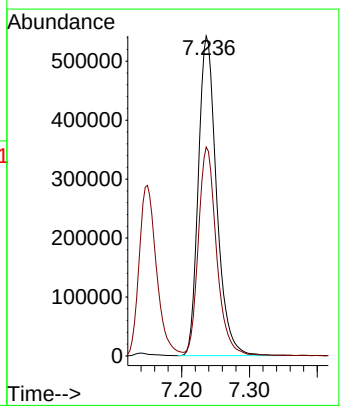
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

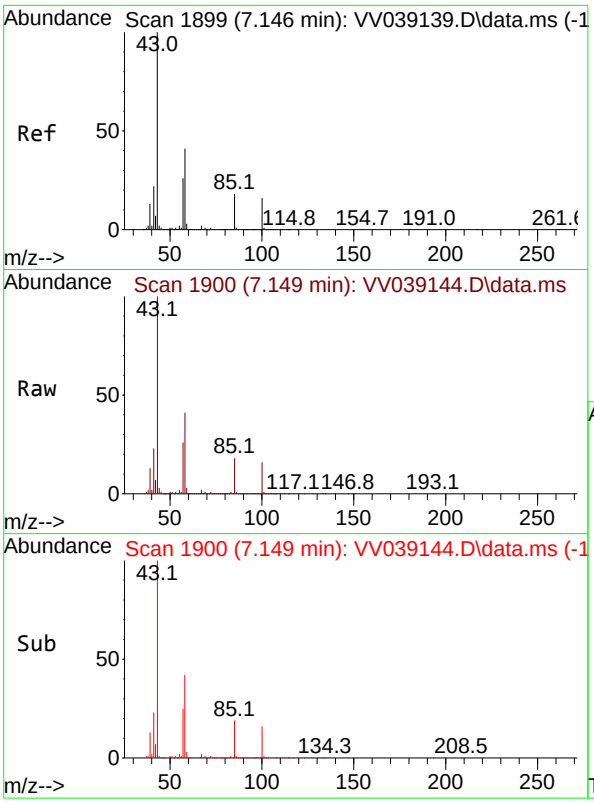



#50
Toluene-d8
Concen: 52.199 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 98 Resp: 1012009

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.9 | 52.2 | 78.2 |

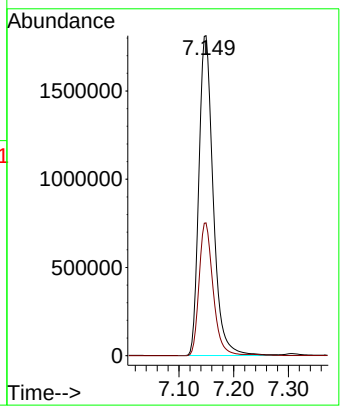





#51
4-Methyl-2-Pentanone
Concen: 303.119 ug/l
RT: 7.149 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 43 Resp: 329279

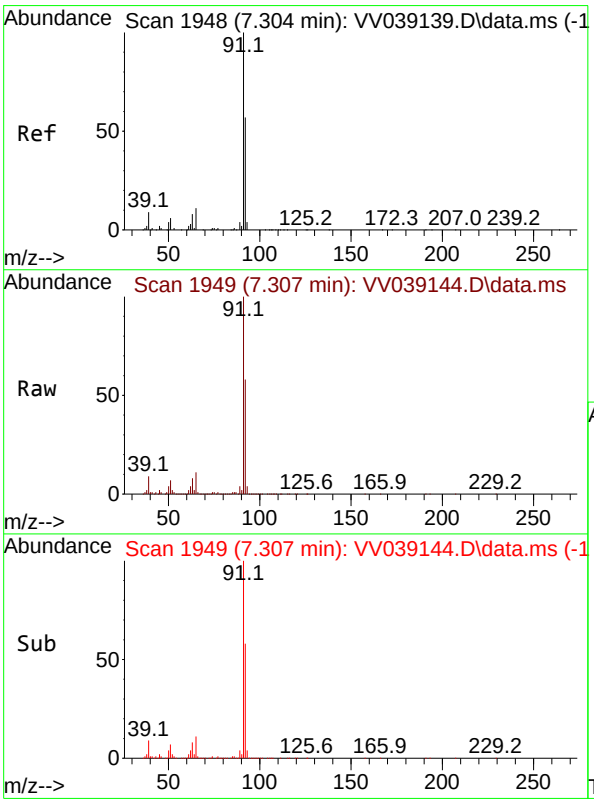
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 40.6 | 32.3 | 48.5 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations**
**APPROVED**

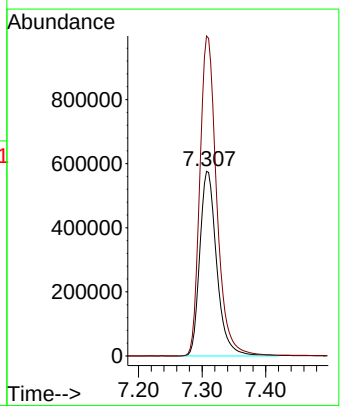
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

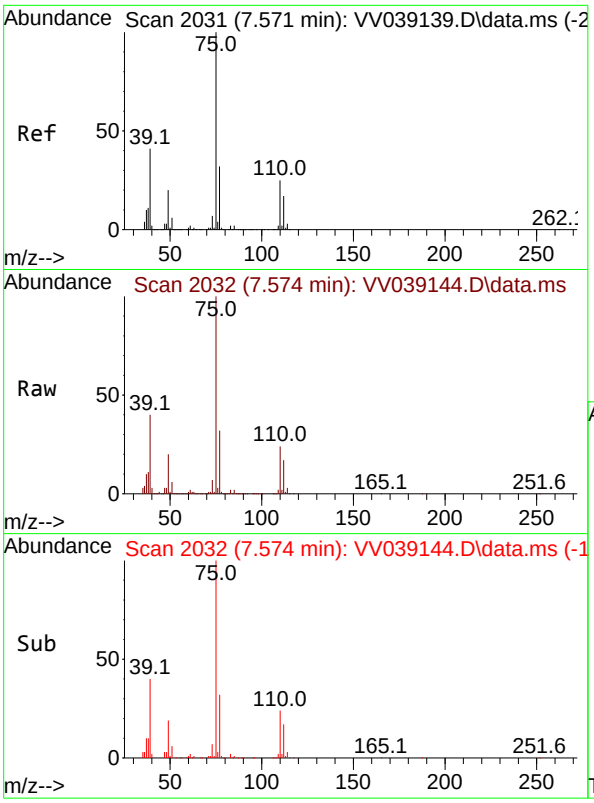



#52
Toluene
Concen: 56.517 ug/l
RT: 7.307 min Scan# 1949
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 92 Resp: 1064972

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 173.0 | 139.2 | 208.8 |

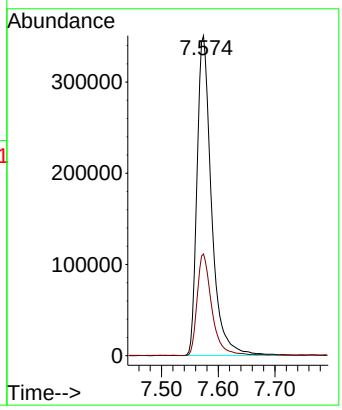





#53
t-1,3-Dichloropropene
Concen: 55.823 ug/l
RT: 7.574 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 75 Resp: 62181

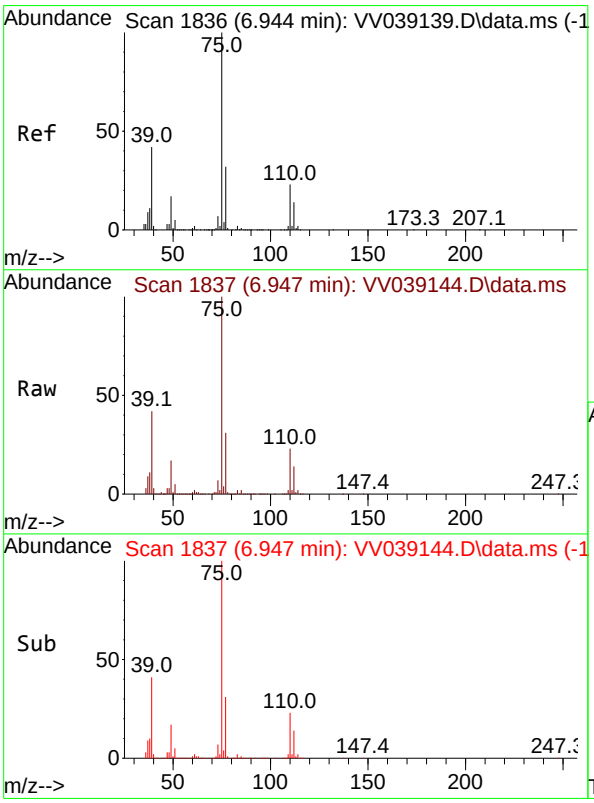
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.7 | 25.9 | 38.9 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations**
**APPROVED**

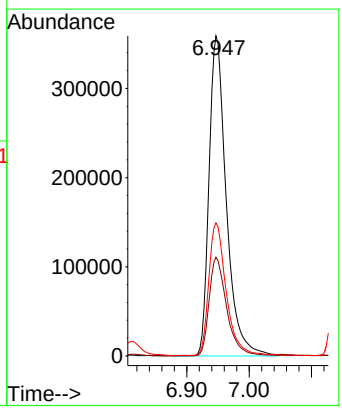
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

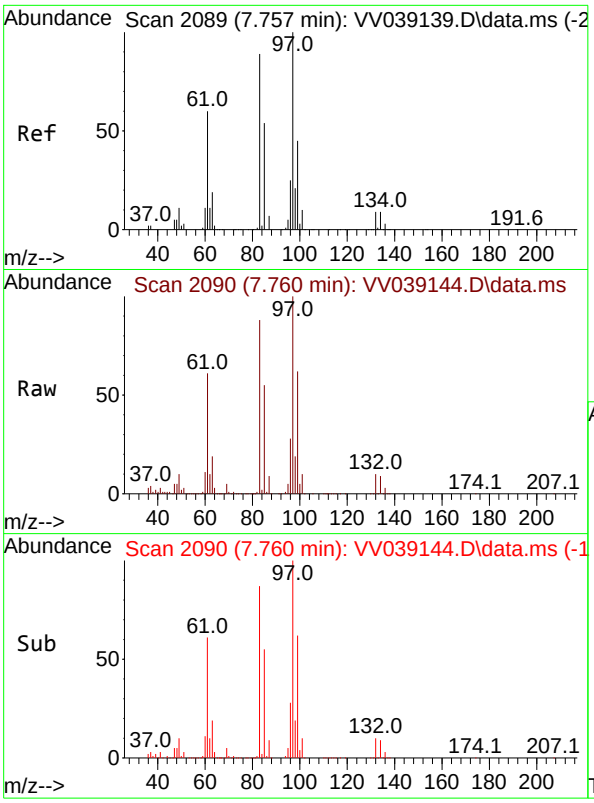



#54
cis-1,3-Dichloropropene
Concen: 56.154 ug/l
RT: 6.947 min Scan# 1837
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 75 Resp: 690532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.8 | 25.5 | 38.3 |
| 39 | 41.5 | 33.8 | 50.6 |

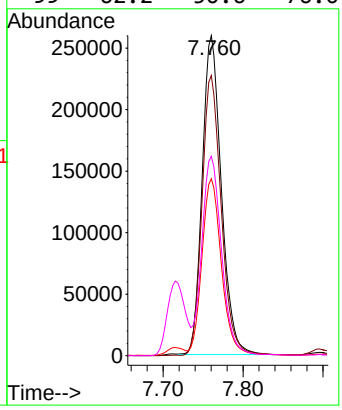





#55
1,1,2-Trichloroethane
Concen: 51.231 ug/l
RT: 7.760 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 97 Resp: 43285

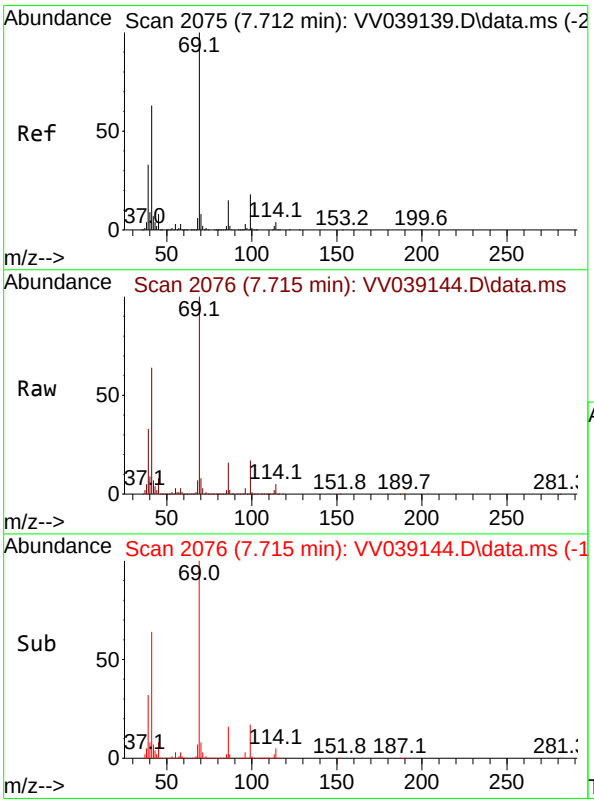
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 87.7 | 71.1 | 106.7 |
| 85 | 55.2 | 44.6 | 67.0 |
| 99 | 62.2 | 50.6 | 76.0 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations**
**APPROVED**

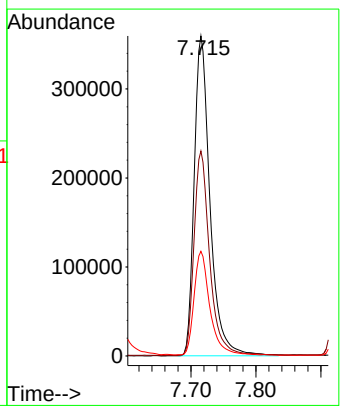
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

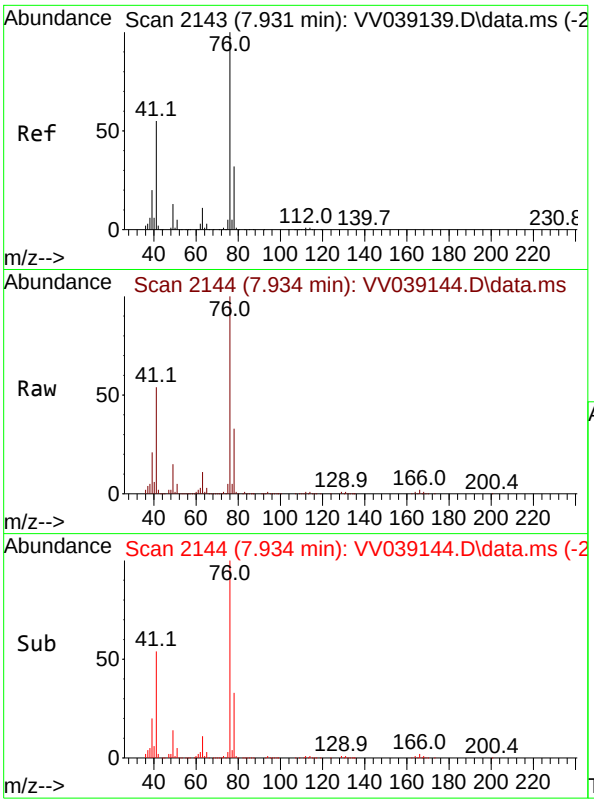



#56
Ethyl methacrylate
Concen: 60.810 ug/l
RT: 7.715 min Scan# 2076
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 69 Resp: 610159

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 62.8 | 50.7 | 76.1 |
| 39 | 32.0 | 26.0 | 39.0 |

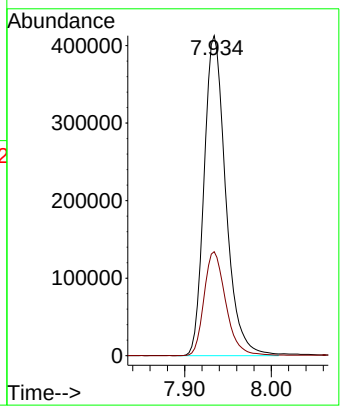





#57
1,3-Dichloropropane
Concen: 53.769 ug/l
RT: 7.934 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 76 Resp: 71695

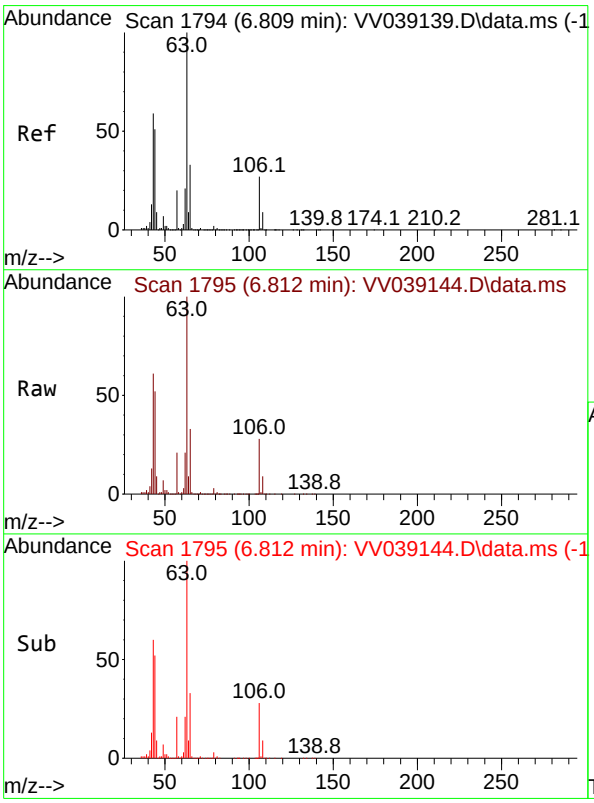
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.9 | 26.1 | 39.1 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations APPROVED**

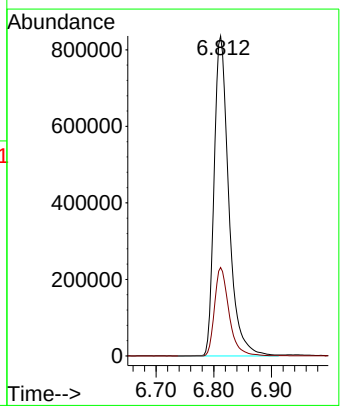
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

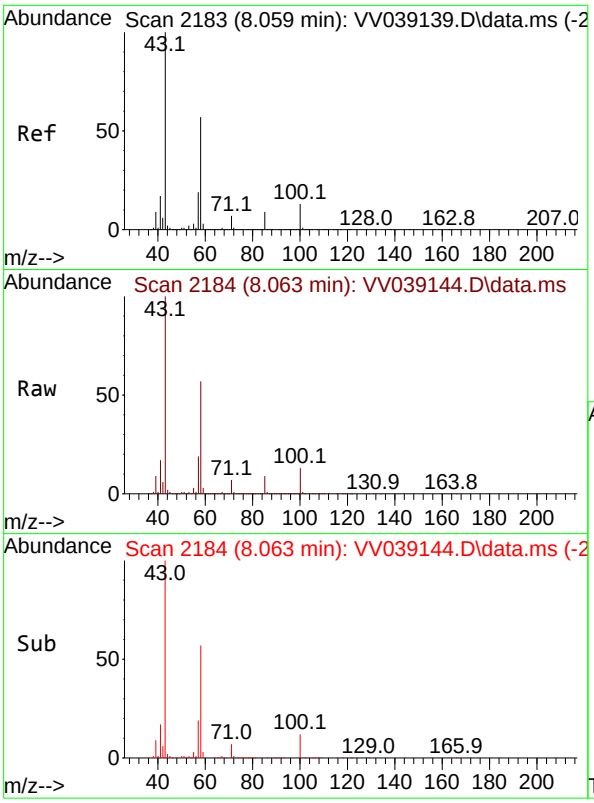



#58
2-Chloroethyl Vinyl ether
Concen: 259.936 ug/l
RT: 6.812 min Scan# 1795
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 63 Resp: 1474938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 27.3 | 22.1 | 33.1 |






#59
2-Hexanone
Concen: 280.545 ug/l
RT: 8.063 min Scan# 2
Delta R.T. 0.004 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

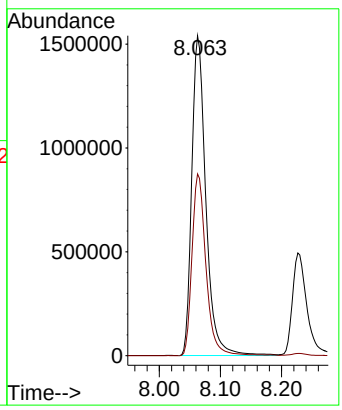
Tgt Ion: 43 Resp: 246249

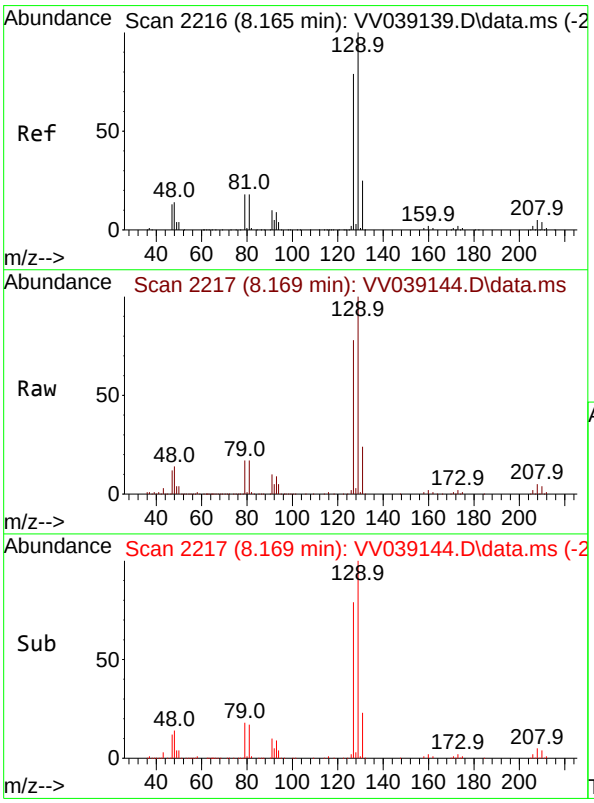
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 56.4 | 28.3 | 85.0 |

**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

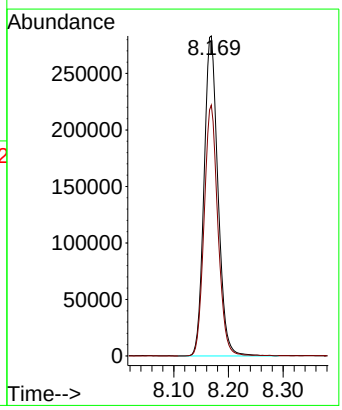


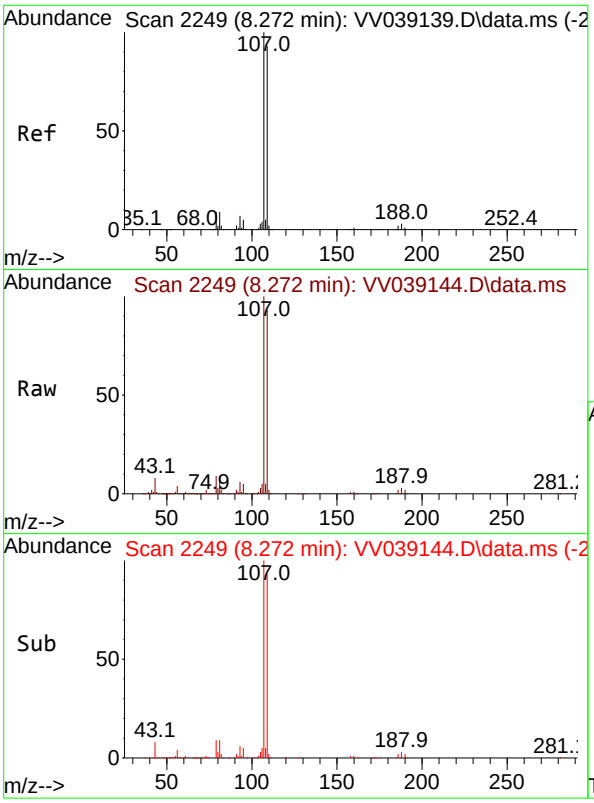




#60
Dibromochloromethane
Concen: 51.926 ug/l
RT: 8.169 min Scan# 2217
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:129 Resp: 499908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.5 | 39.3 | 117.9 |

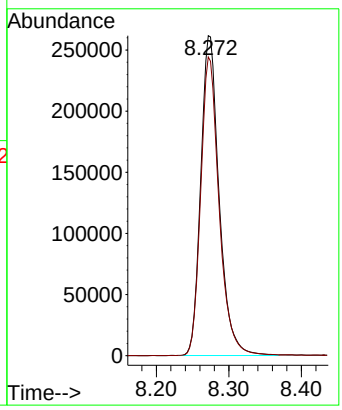





#61
1,2-Dibromoethane
Concen: 53.295 ug/l
RT: 8.272 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:107 Resp: 46051

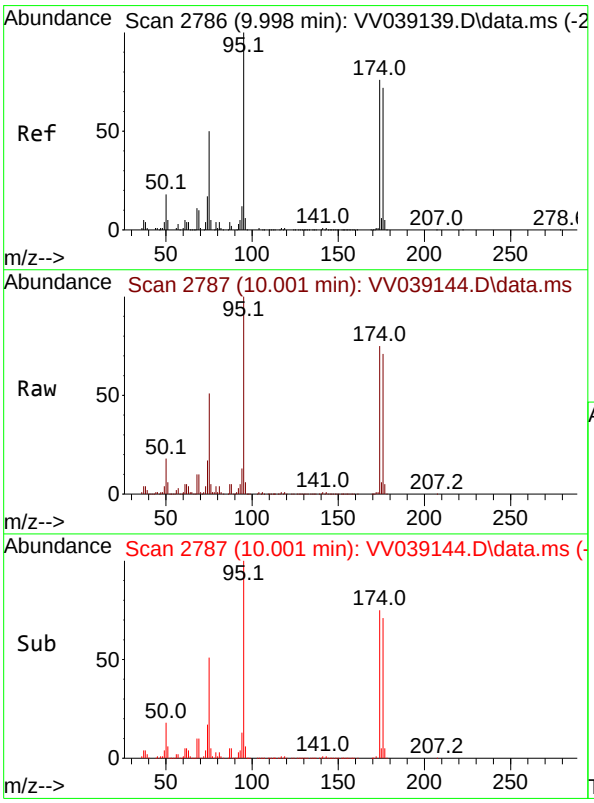
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.6 | 74.6 | 112.0 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations**
**APPROVED**

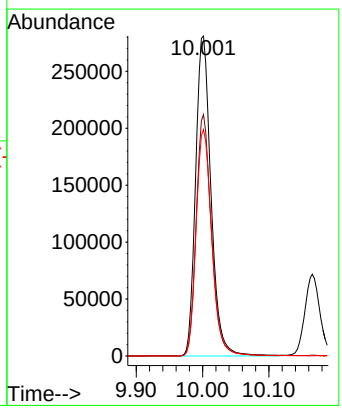
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

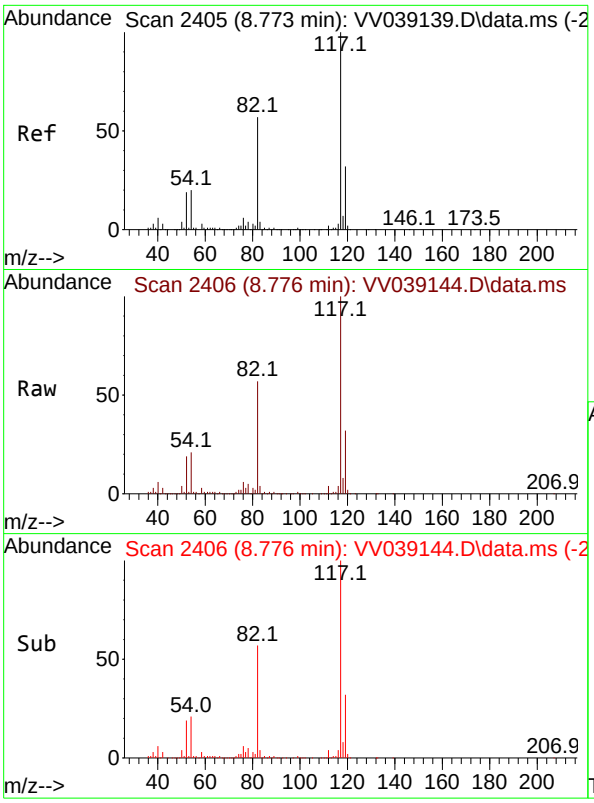



#62
4-Bromofluorobenzene
Concen: 56.823 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 95 Resp: 453523

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 74.8 | 0.0 | 150.4 |
| 176 | 71.8 | 0.0 | 144.2 |






#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

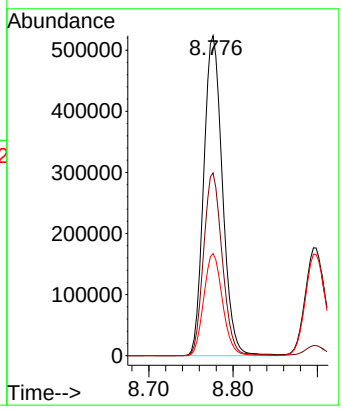
Tgt Ion:117 Resp: 81135

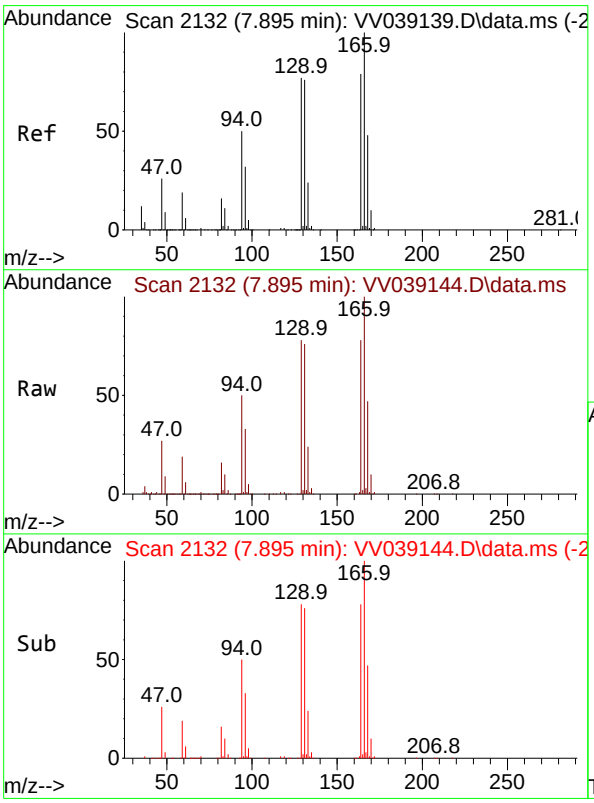
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.1 | 45.4 | 68.2 |
| 119 | 31.9 | 25.6 | 38.4 |

**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

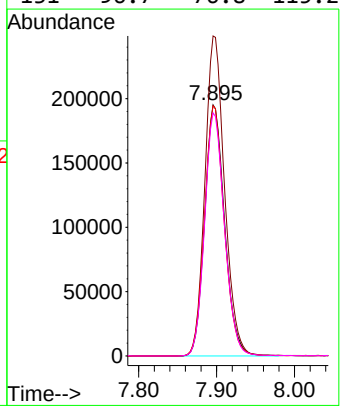


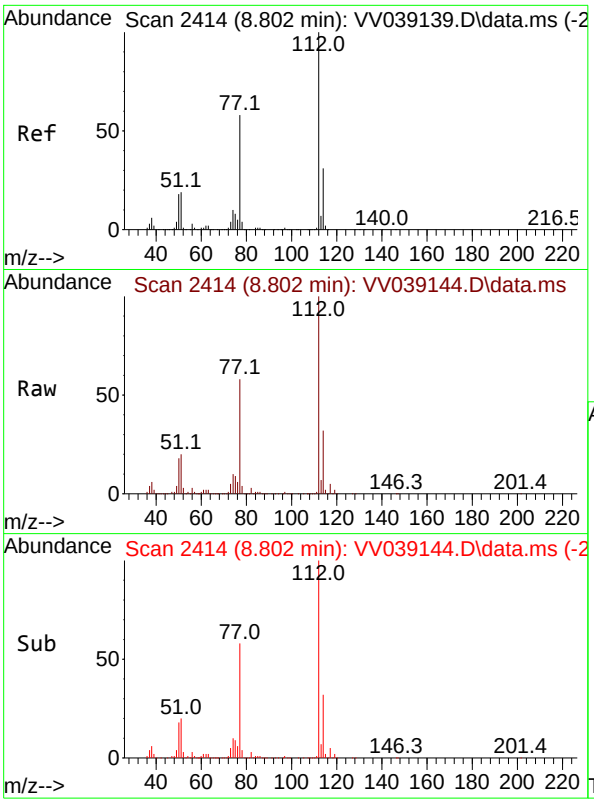




#64
Tetrachloroethene
Concen: 50.954 ug/l
RT: 7.895 min Scan# 2132
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:164 Resp: 346271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 127.5 | 101.6 | 152.4 |
| 129 | 99.6 | 78.5 | 117.7 |
| 131 | 96.7 | 76.8 | 115.2 |






#65
Chlorobenzene
Concen: 51.041 ug/l
RT: 8.802 min Scan# 24
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

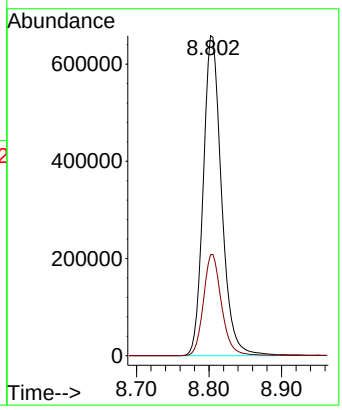
Tgt Ion:112 Resp: 115350

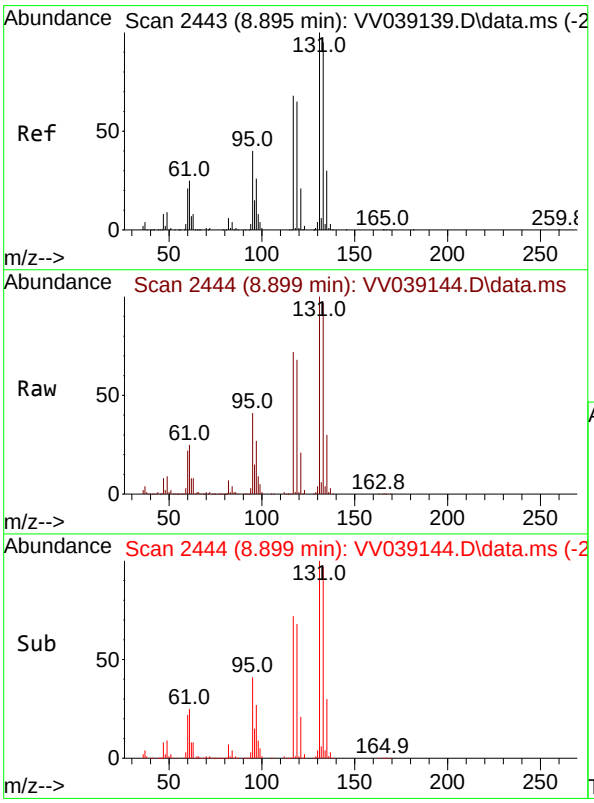
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.5 | 24.6 | 37.0 |

**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

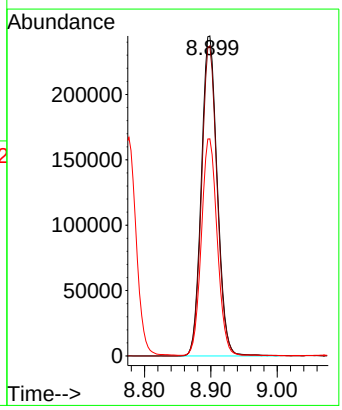


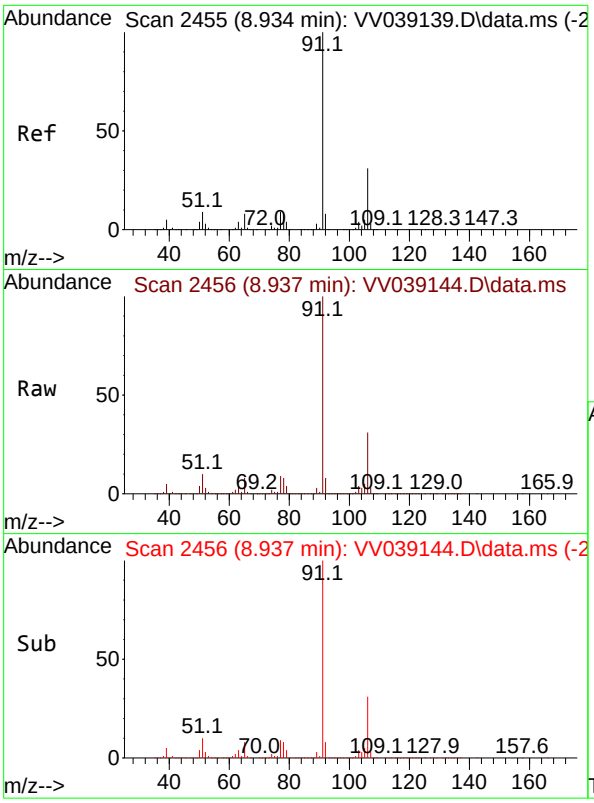




#66
1,1,1,2-Tetrachloroethane
Concen: 50.136 ug/l
RT: 8.899 min Scan# 2444
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:131 Resp: 409401

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.8 | 47.3 | 141.8 |
| 119 | 66.9 | 33.3 | 99.8 |






#67
Ethyl Benzene
Concen: 57.438 ug/l
RT: 8.937 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

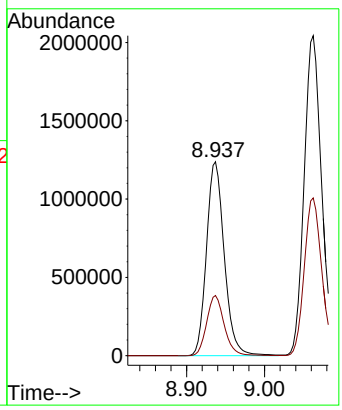
Tgt Ion: 91 Resp: 196494

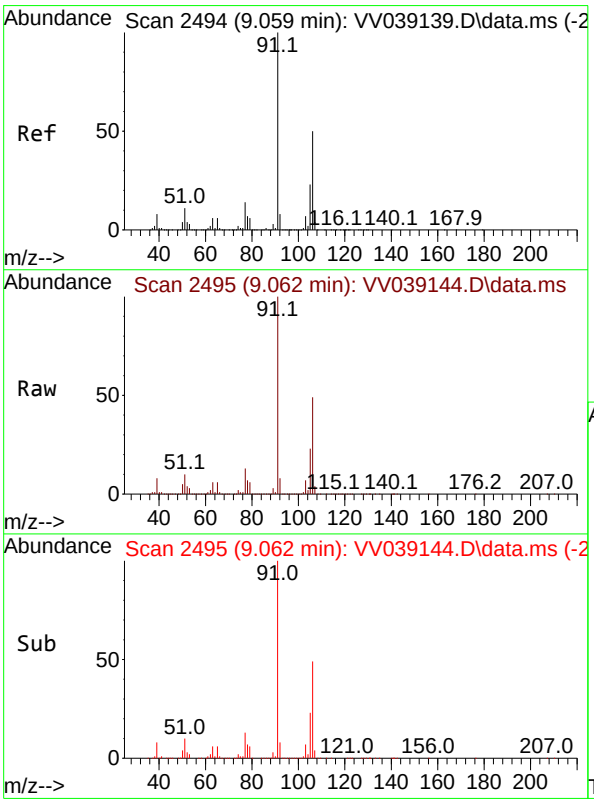
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.0 | 24.6 | 37.0 |

**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

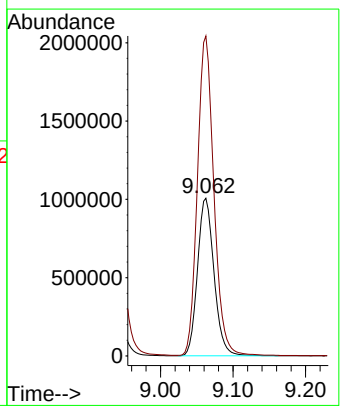


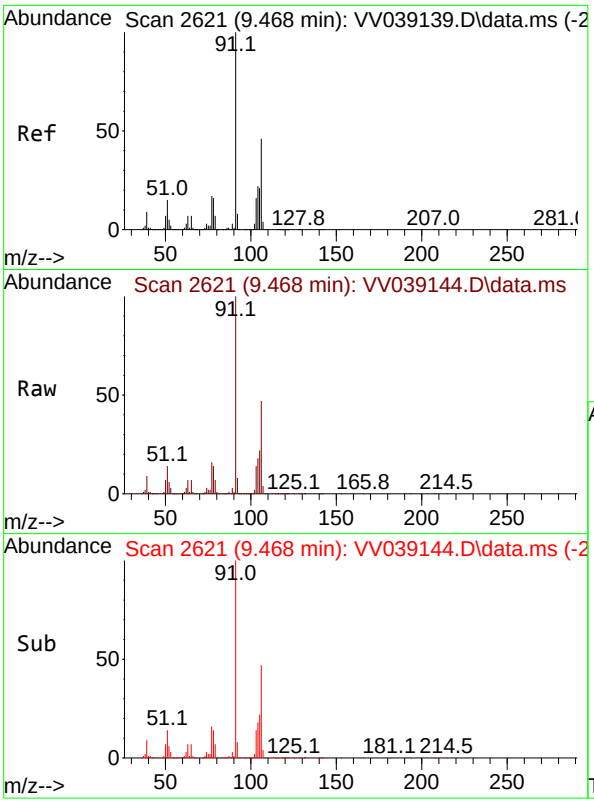




#68
m/p-Xylenes
Concen: 120.582 ug/l
RT: 9.062 min Scan# 2495
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:106 Resp: 1592118

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 203.1 | 162.5 | 243.7 |






#69
o-Xylene
Concen: 60.414 ug/l
RT: 9.468 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

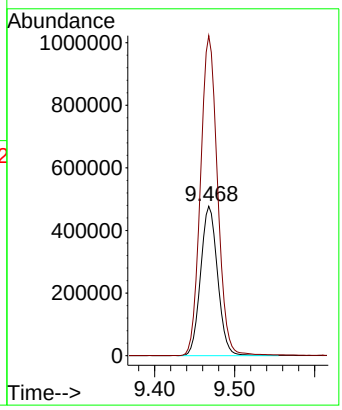
Tgt Ion:106 Resp: 70630

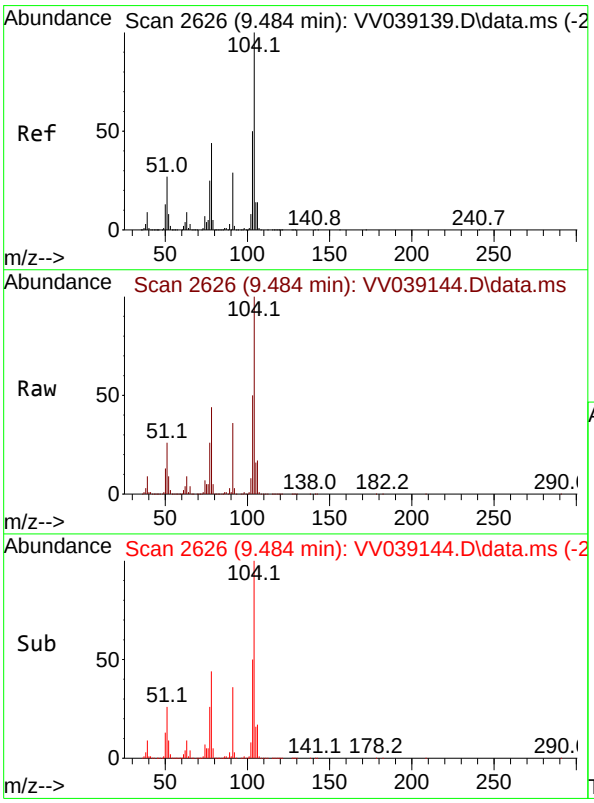
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 215.7 | 109.1 | 327.3 |

**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

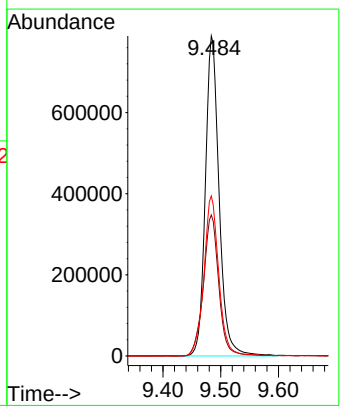


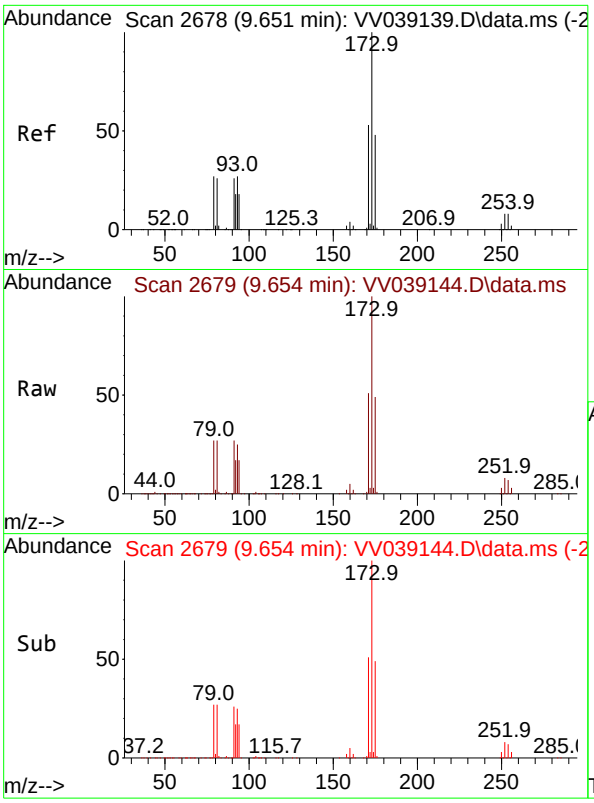




#70
Styrene
Concen: 52.671 ug/l
RT: 9.484 min Scan# 2626
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:104 Resp: 1306032

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 49.0 | 39.8 | 59.6 |
| 103 | 54.4 | 43.4 | 65.2 |

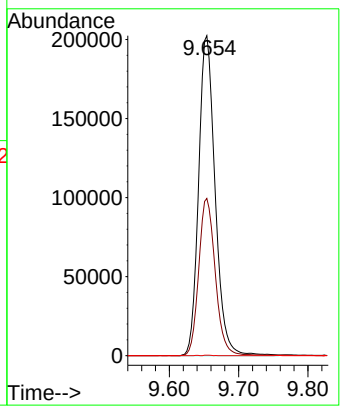





#71
Bromoform
Concen: 52.585 ug/l
RT: 9.654 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:173 Resp: 33541

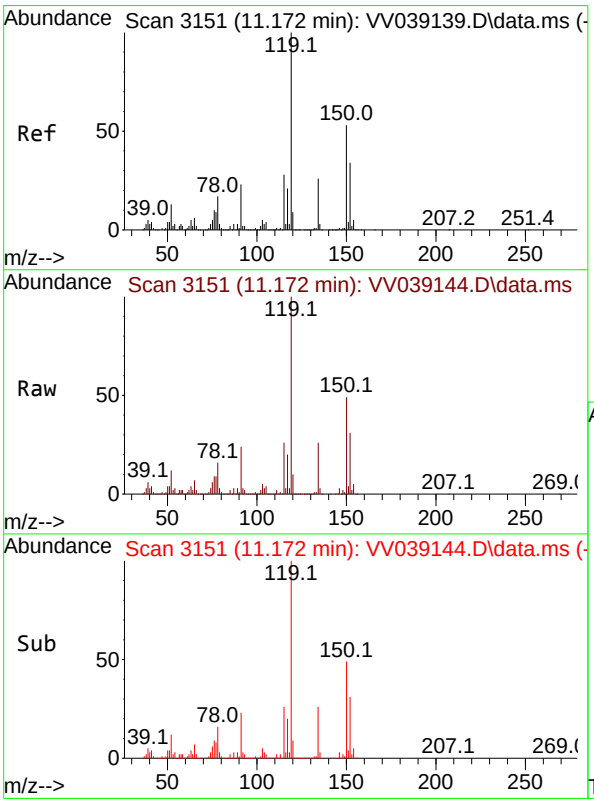
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.3 | 23.9 | 71.7 |
| 254 | 0.1 | 0.1 | 0.1 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations**
**APPROVED**

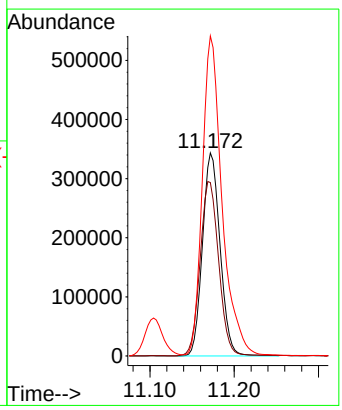
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

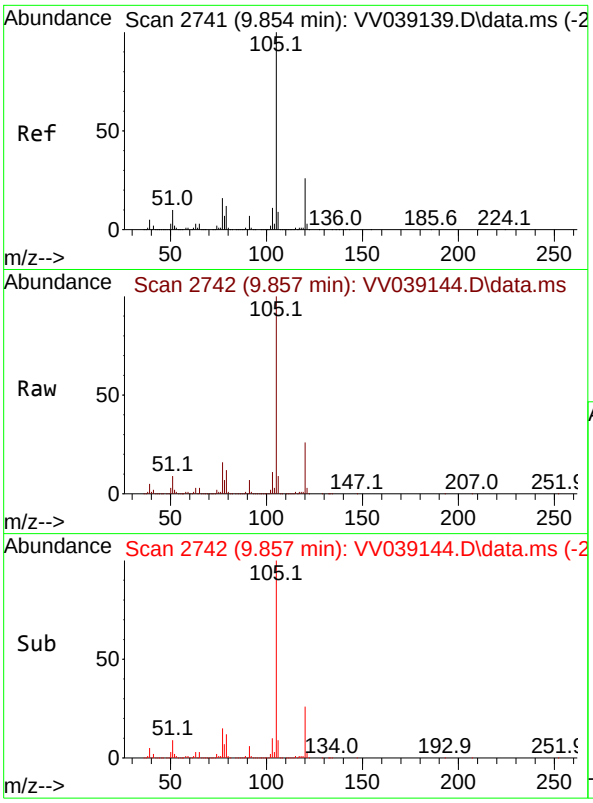



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:152 Resp: 500088

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 90.2 | 44.8 | 134.4 |
| 150 | 176.9 | 0.0 | 353.8 |

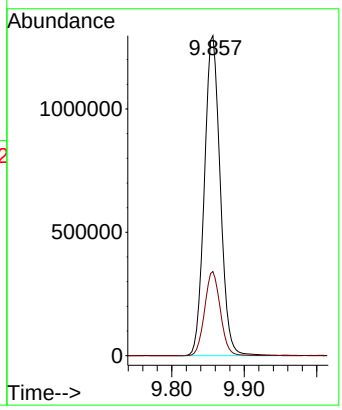





#73
Isopropylbenzene
Concen: 54.210 ug/l
RT: 9.857 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:105 Resp: 196628

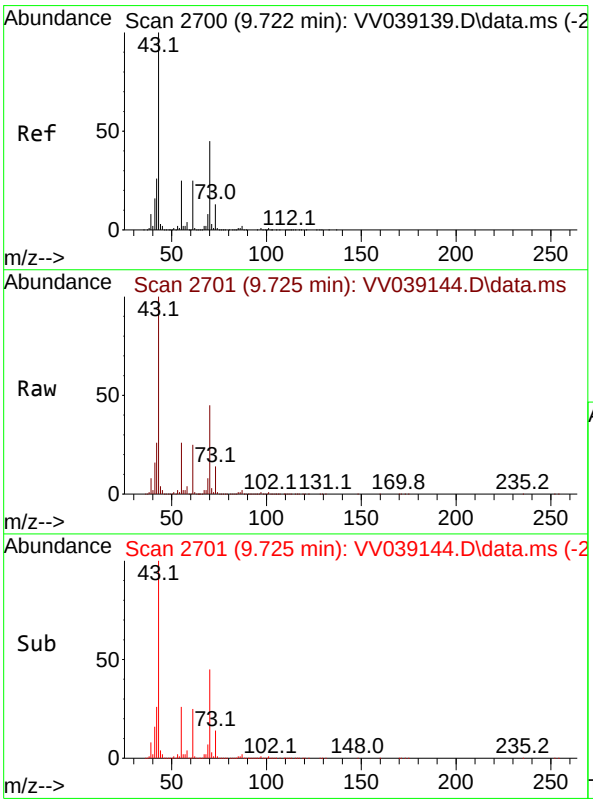
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.1 | 13.1 | 39.1 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations**
**APPROVED**

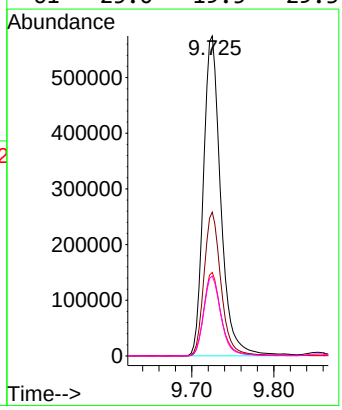
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

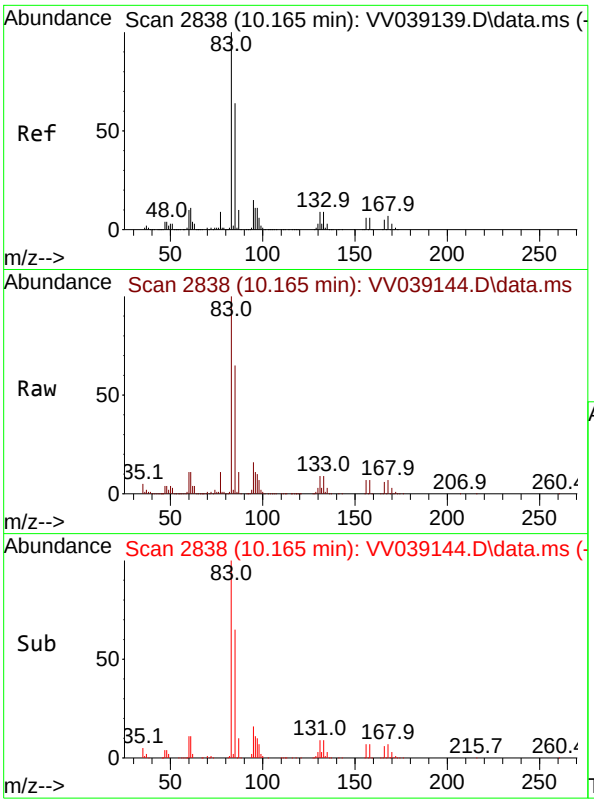



#74
N-amyl acetate
Concen: 58.135 ug/l
RT: 9.725 min Scan# 2701
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 43 Resp: 841099

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 44.4 | 35.4 | 53.0 |
| 55 | 26.0 | 20.6 | 30.8 |
| 61 | 25.0 | 19.5 | 29.3 |

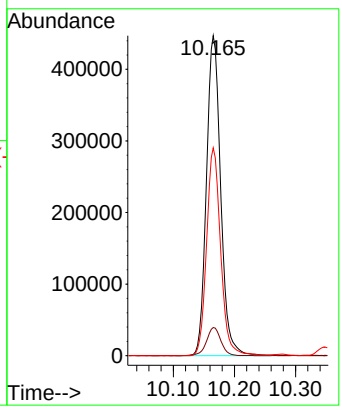





#75
1,1,2,2-Tetrachloroethane
Concen: 45.610 ug/l
RT: 10.165 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 83 Resp: 72486

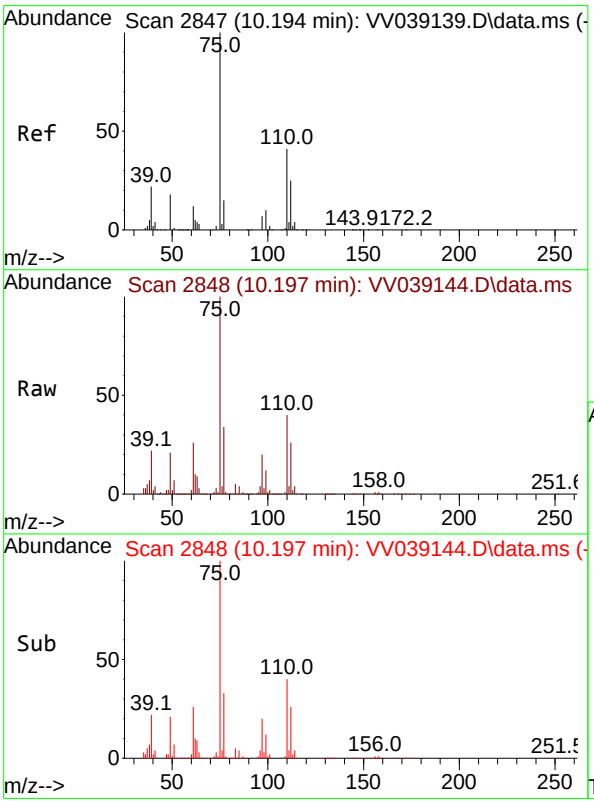
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 8.9 | 4.5 | 13.7 |
| 85 | 64.0 | 31.9 | 95.9 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations**
**APPROVED**

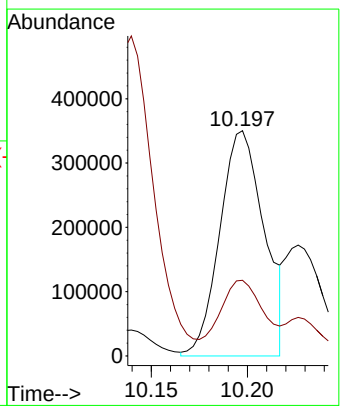
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

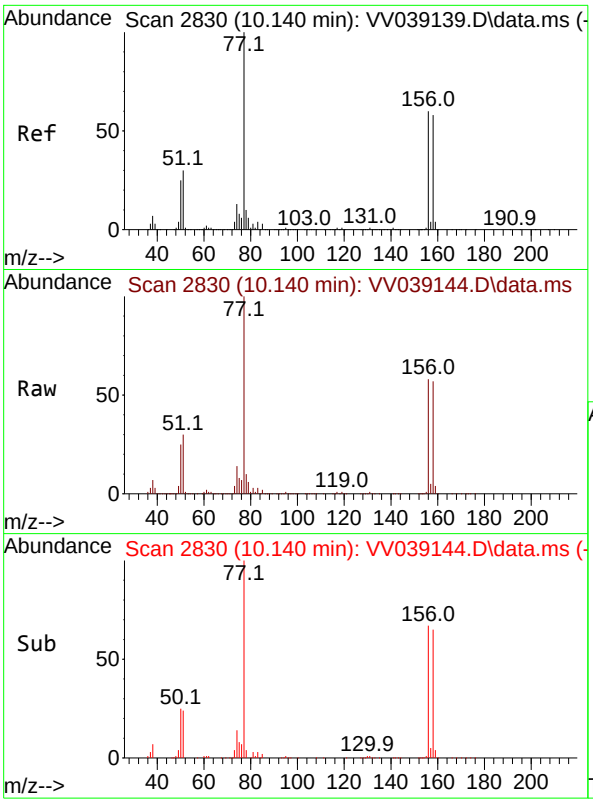



#76
1,2,3-Trichloropropane
Concen: 49.515 ug/l m
RT: 10.197 min Scan# 2848
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 75 Resp: 563785

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 13.7 | 11.3 | 33.8 |

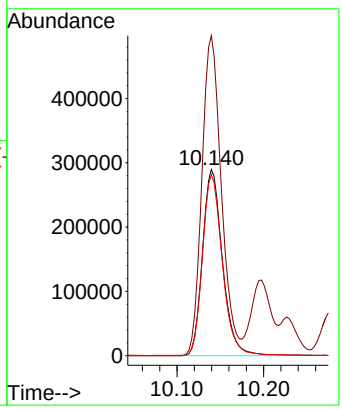





#77
Bromobenzene
Concen: 49.193 ug/l
RT: 10.140 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:156 Resp: 46293

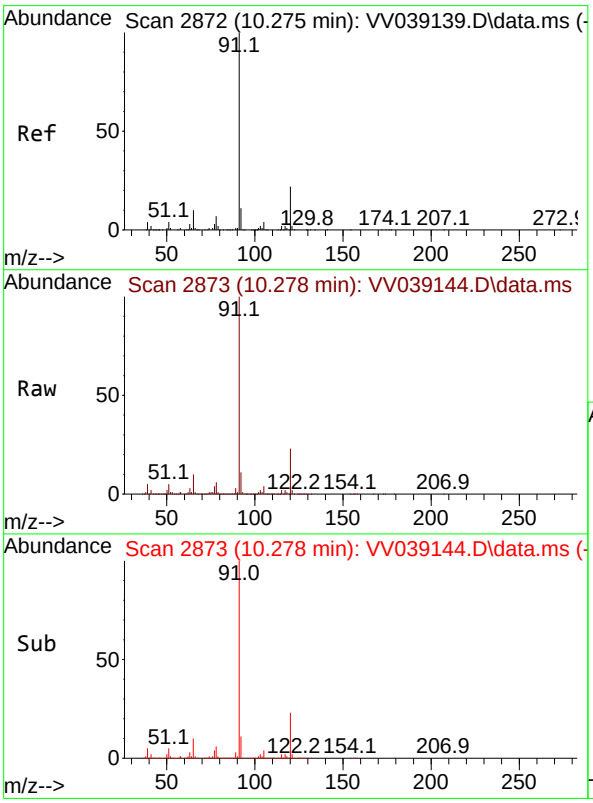
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 168.2 | 83.4 | 250.1 |
| 158 | 97.3 | 48.8 | 146.4 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations**
**APPROVED**

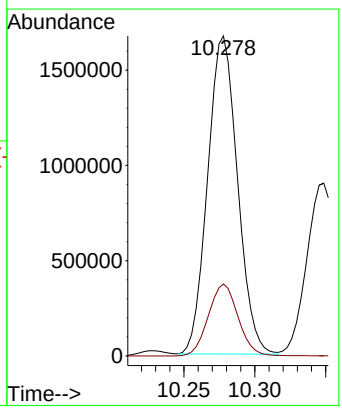
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

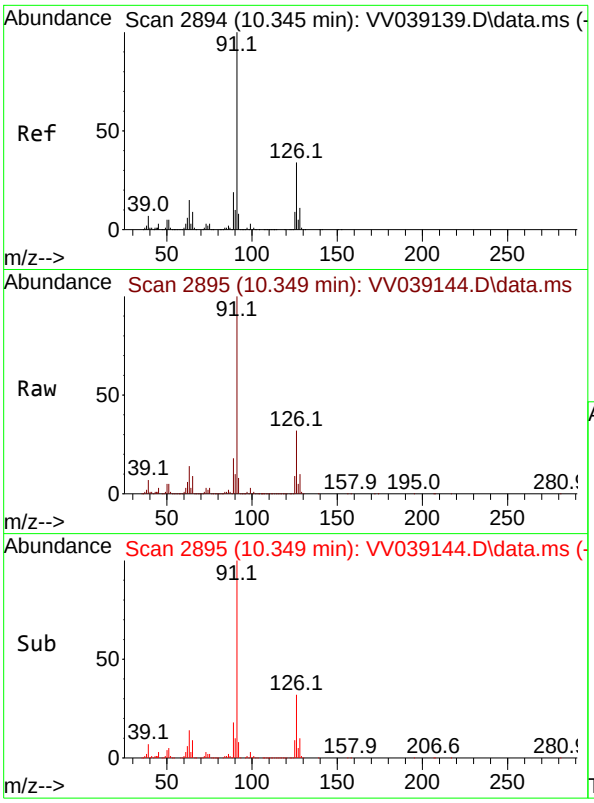



#78
n-propylbenzene
Concen: 55.347 ug/l
RT: 10.278 min Scan# 2873
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 91 Resp: 2444658

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.6 | 11.1 | 33.3 |

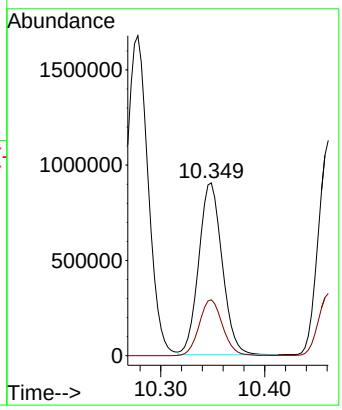





#79
2-Chlorotoluene
Concen: 53.426 ug/l
RT: 10.349 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 91 Resp: 141204

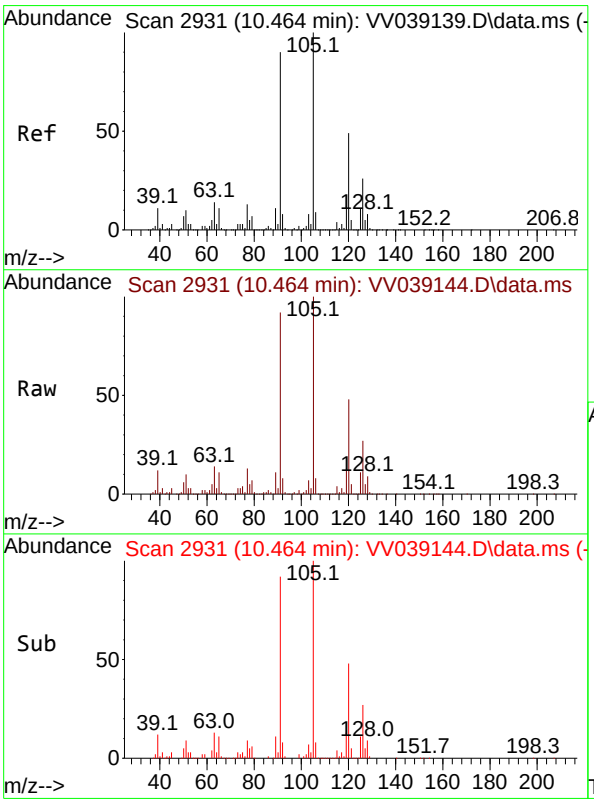
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.5 | 16.7 | 50.0 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations**
**APPROVED**

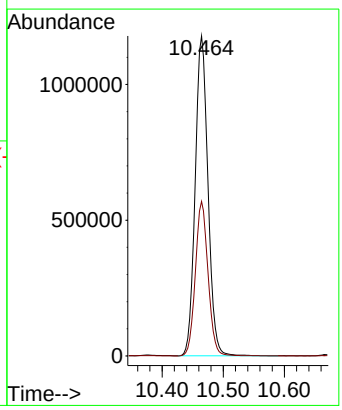
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

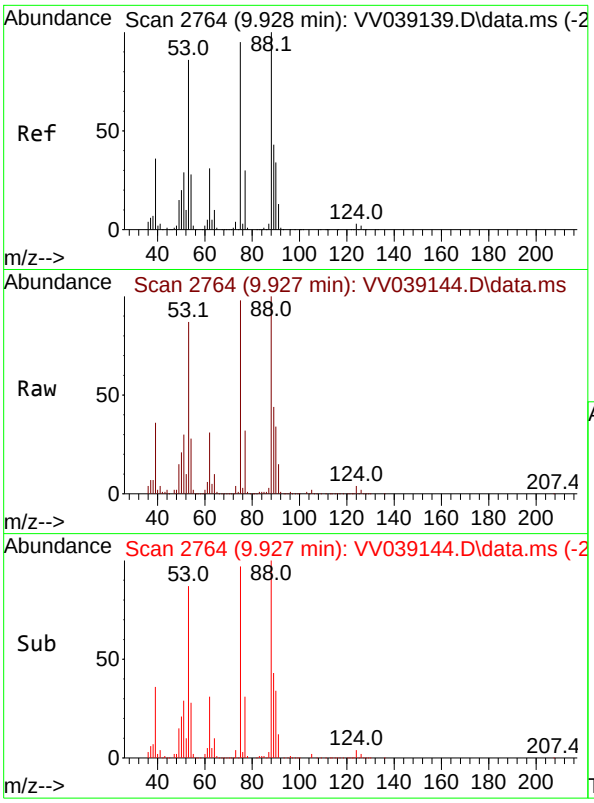



#80
1,3,5-Trimethylbenzene
Concen: 56.698 ug/l
RT: 10.464 min Scan# 2931
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:105 Resp: 1709353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.9 | 24.3 | 72.8 |






#81
trans-1,4-Dichloro-2-butene
Concen: 52.262 ug/l
RT: 9.927 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

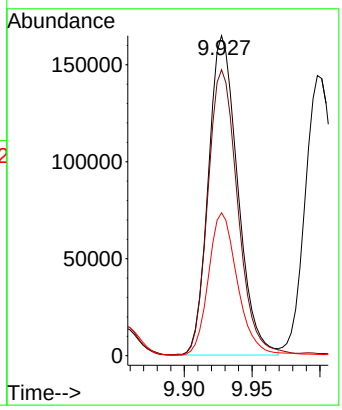
Tgt Ion: 75 Resp: 24787

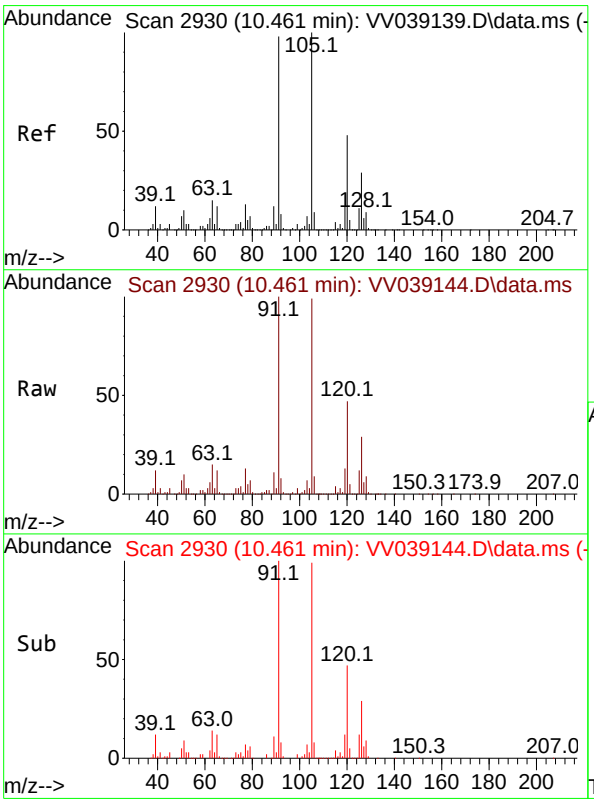
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 90.6 | 72.5 | 108.7 |
| 89 | 44.6 | 37.2 | 55.8 |

**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

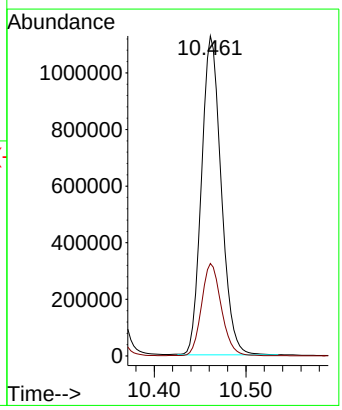


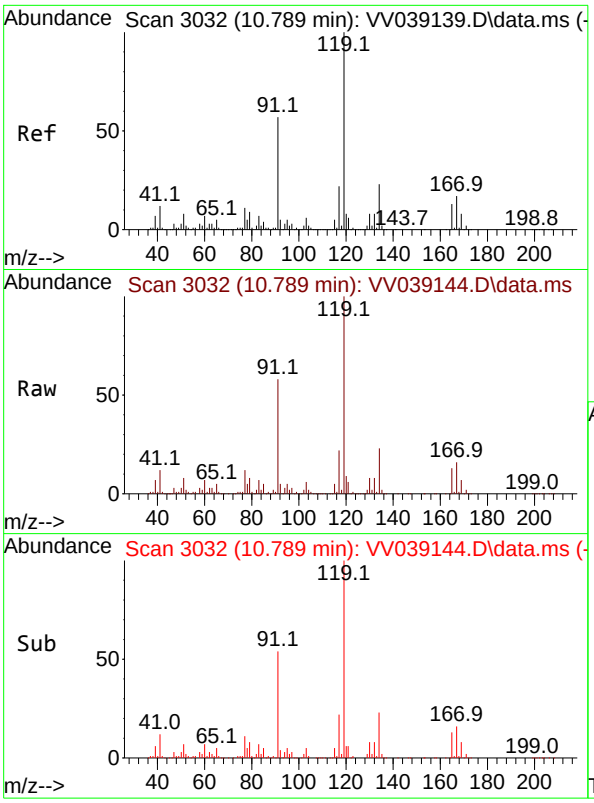




#82
4-Chlorotoluene
Concen: 54.824 ug/l
RT: 10.461 min Scan# 2930
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 91 Resp: 1680201

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 28.9 | 14.5 | 43.6 |

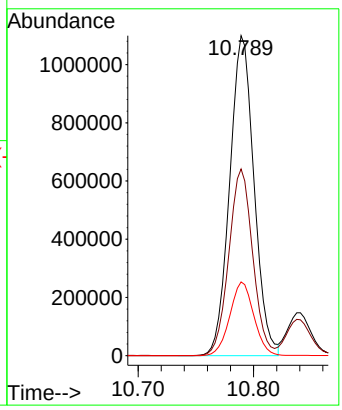





#83
tert-Butylbenzene
Concen: 53.584 ug/l
RT: 10.789 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:119 Resp: 161087

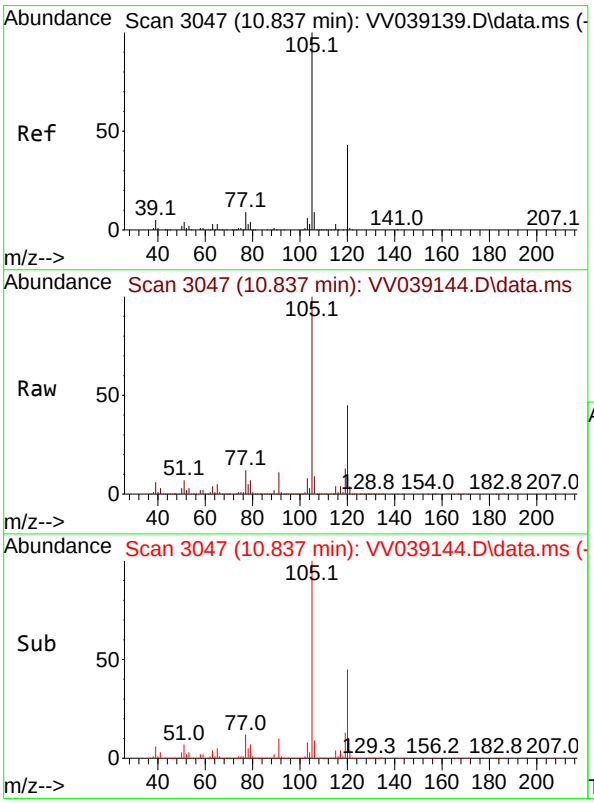
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 57.1 | 28.5 | 85.6 |
| 134 | 22.9 | 11.5 | 34.4 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations APPROVED**

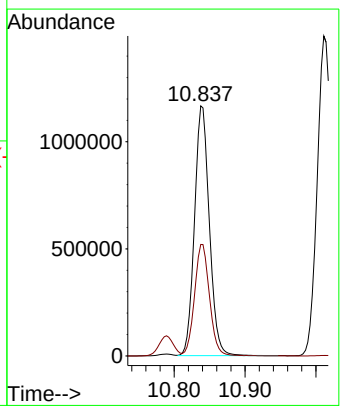
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

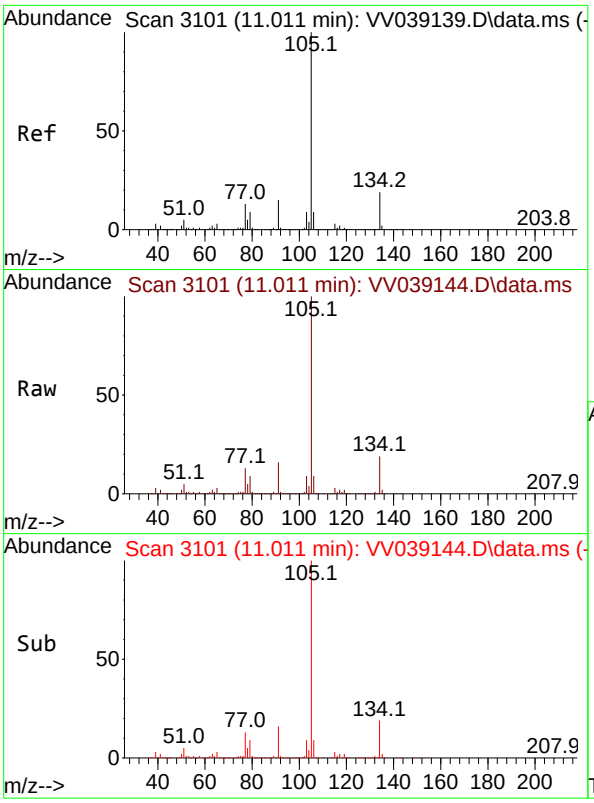



#84
1,2,4-Trimethylbenzene
Concen: 57.944 ug/l
RT: 10.837 min Scan# 3047
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:105 Resp: 1695994

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.0 | 22.4 | 67.2 |

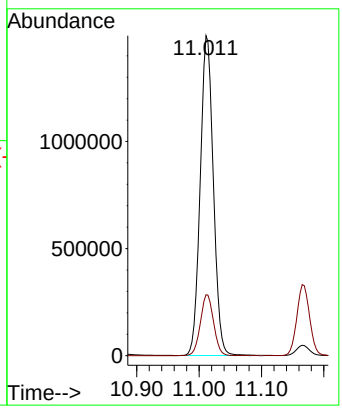





#85
sec-Butylbenzene
Concen: 54.911 ug/l
RT: 11.011 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:105 Resp: 218954

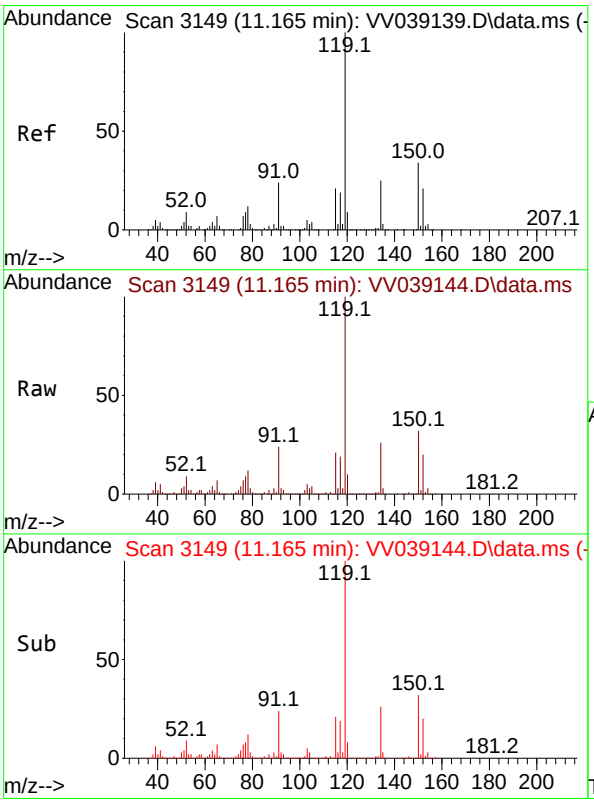
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.1 | 9.6 | 28.8 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations**
**APPROVED**

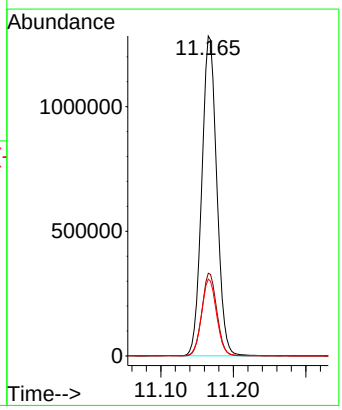
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

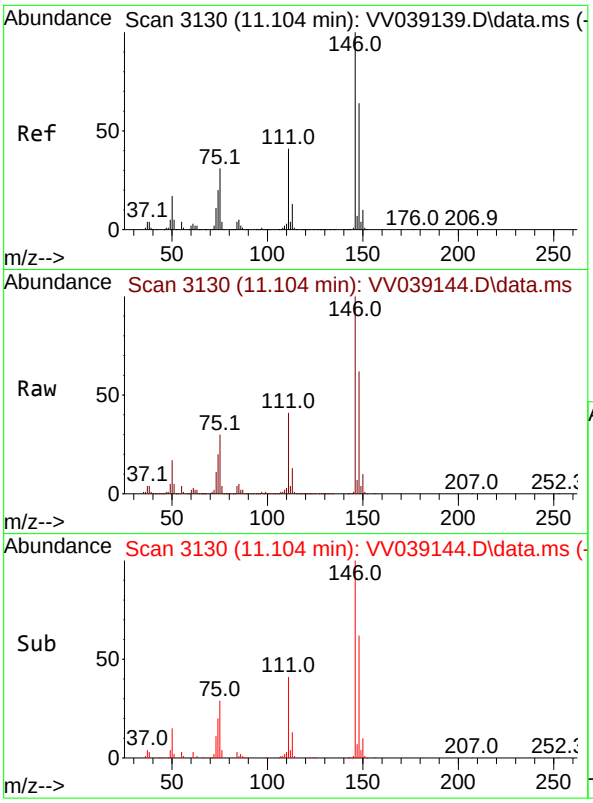



#86
p-Isopropyltoluene
Concen: 55.495 ug/l
RT: 11.165 min Scan# 3149
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:119 Resp: 1841747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.6 | 12.7 | 38.0 |
| 91 | 24.0 | 12.0 | 36.1 |

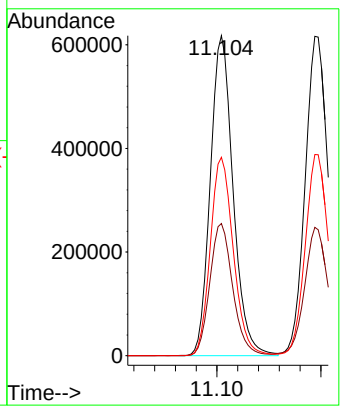





#87
1,3-Dichlorobenzene
Concen: 49.328 ug/l
RT: 11.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:146 Resp: 93948

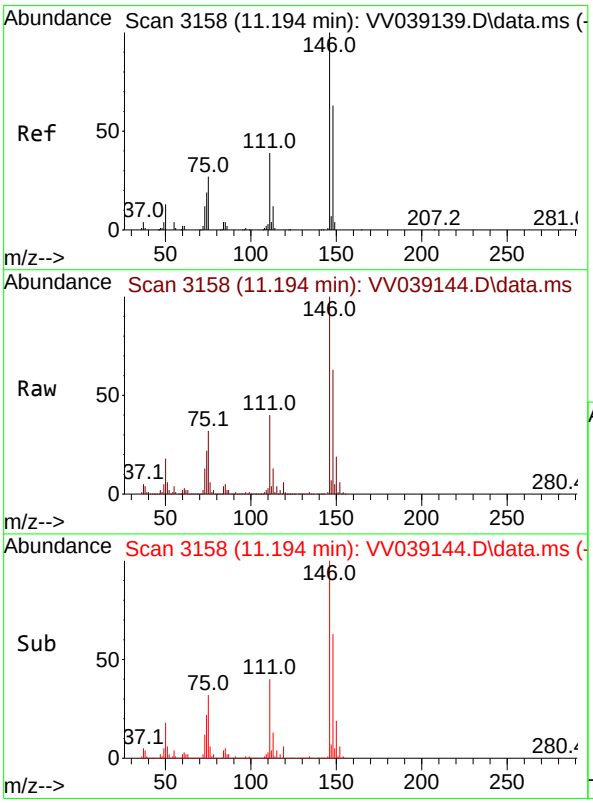
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.5 | 20.9 | 62.8 |
| 148 | 62.8 | 31.8 | 95.3 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations**
**APPROVED**

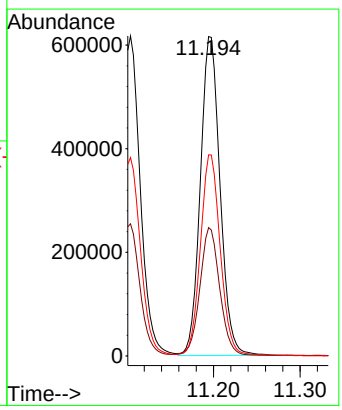
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

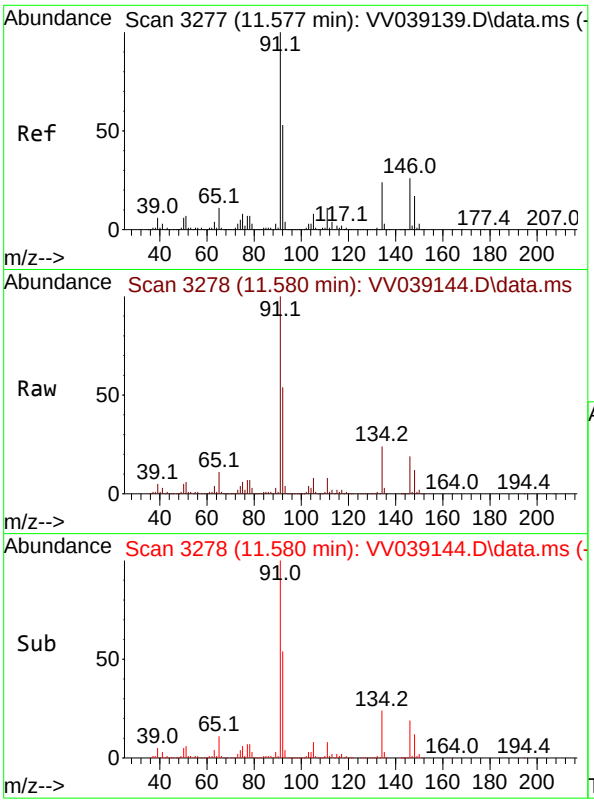



#88
1,4-Dichlorobenzene
Concen: 46.502 ug/l
RT: 11.194 min Scan# 3158
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:146 Resp: 971665

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.6 | 20.3 | 60.8 |
| 148 | 64.0 | 31.4 | 94.2 |

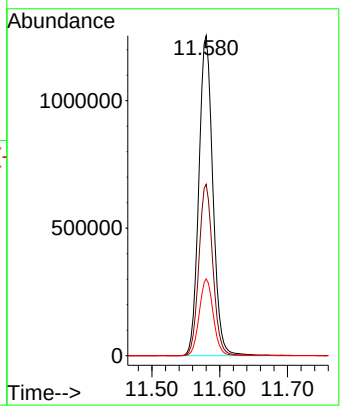





#89
n-Butylbenzene
Concen: 56.740 ug/l
RT: 11.580 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 91 Resp: 179841

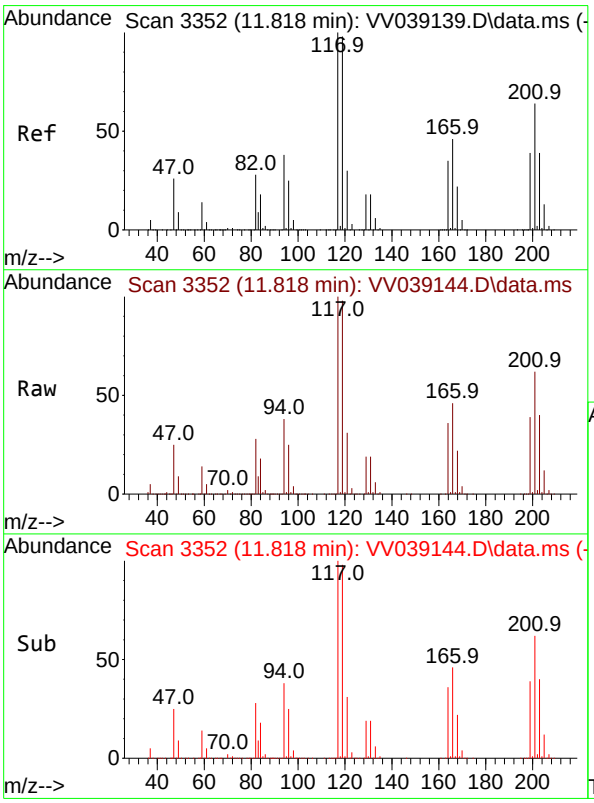
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.4 | 26.6 | 79.8 |
| 134 | 24.0 | 12.1 | 36.3 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations APPROVED**

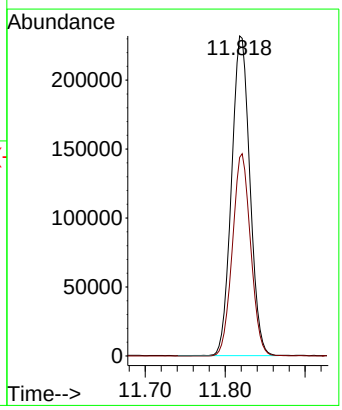
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

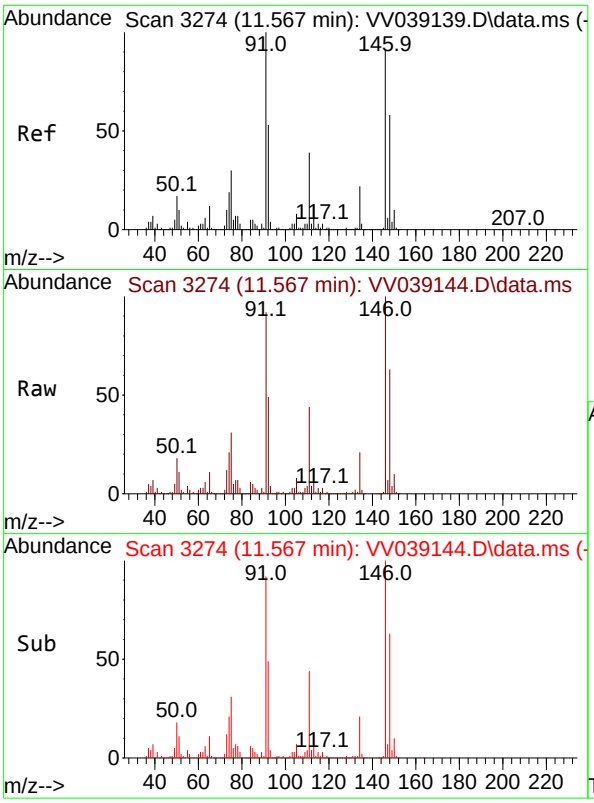



#90
Hexachloroethane
Concen: 45.296 ug/l
RT: 11.818 min Scan# 3352
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:117 Resp: 370188

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 62.9 | 32.3 | 96.8 |

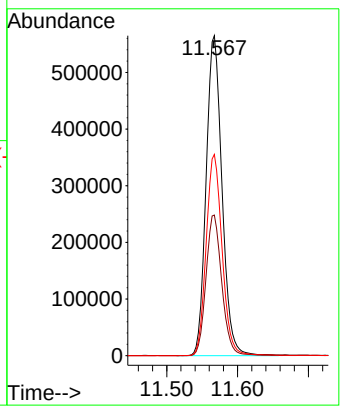





#91
1,2-Dichlorobenzene
Concen: 49.362 ug/l
RT: 11.567 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:146 Resp: 87834

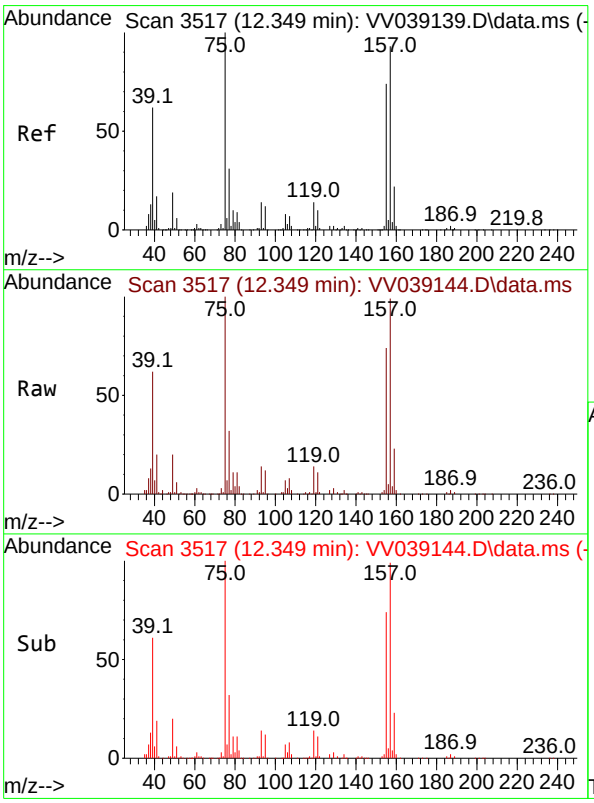
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.8 | 21.5 | 64.5 |
| 148 | 63.4 | 31.9 | 95.7 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations APPROVED**

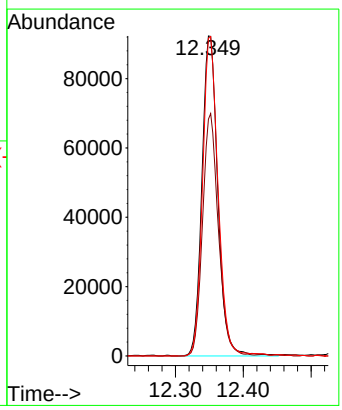
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

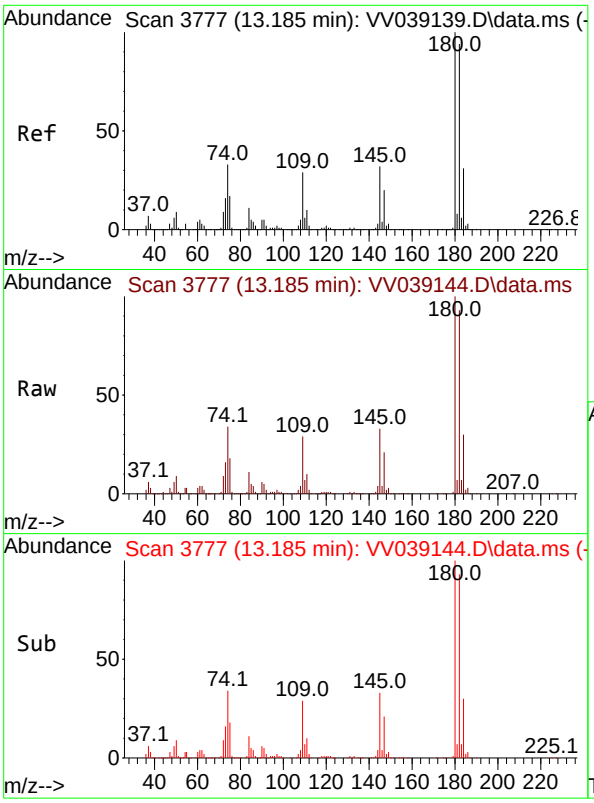



#92
1,2-Dibromo-3-Chloropropane
Concen: 52.479 ug/l
RT: 12.349 min Scan# 3517
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion: 75 Resp: 150399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 75.5 | 38.6 | 115.8 |
| 157 | 97.3 | 49.5 | 148.3 |

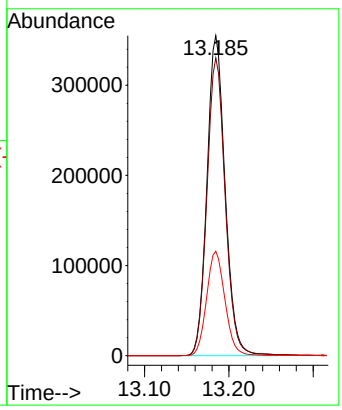





#93
1,2,4-Trichlorobenzene
Concen: 52.259 ug/l
RT: 13.185 min Scan# 3
Delta R.T. -0.001 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:180 Resp: 53304

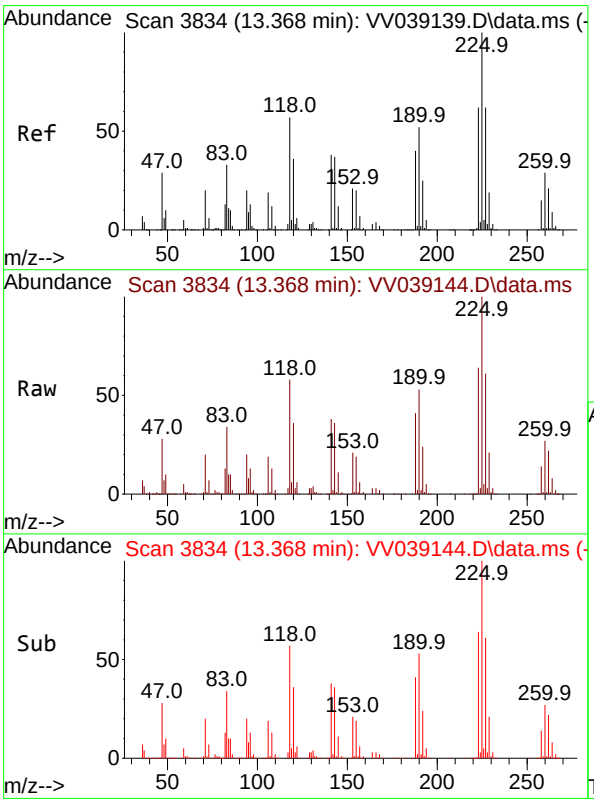
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.6 | 47.1 | 141.4 |
| 145 | 33.1 | 16.3 | 48.8 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations**
**APPROVED**

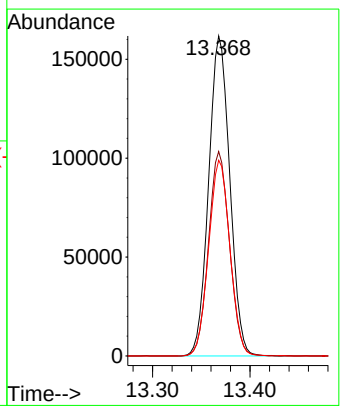
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025

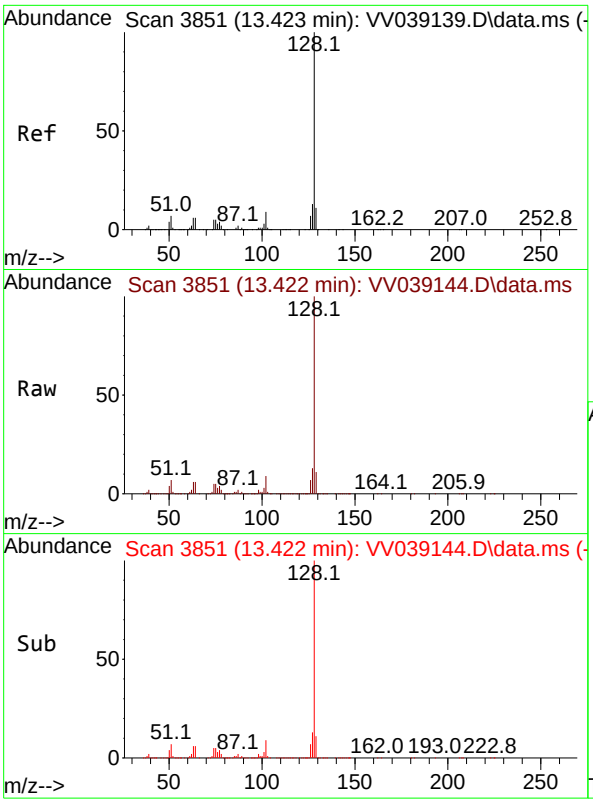



#94
Hexachlorobutadiene
Concen: 45.942 ug/l
RT: 13.368 min Scan# 3834
Delta R.T. -0.000 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:225 Resp: 243496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.3 | 31.6 | 94.7 |
| 227 | 61.7 | 31.8 | 95.4 |

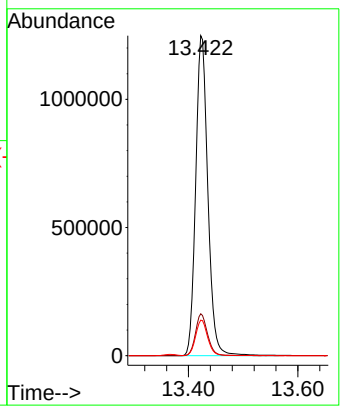





#95
Naphthalene
Concen: 58.231 ug/l
RT: 13.422 min Scan# 3
Delta R.T. -0.001 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:128 Resp: 191977

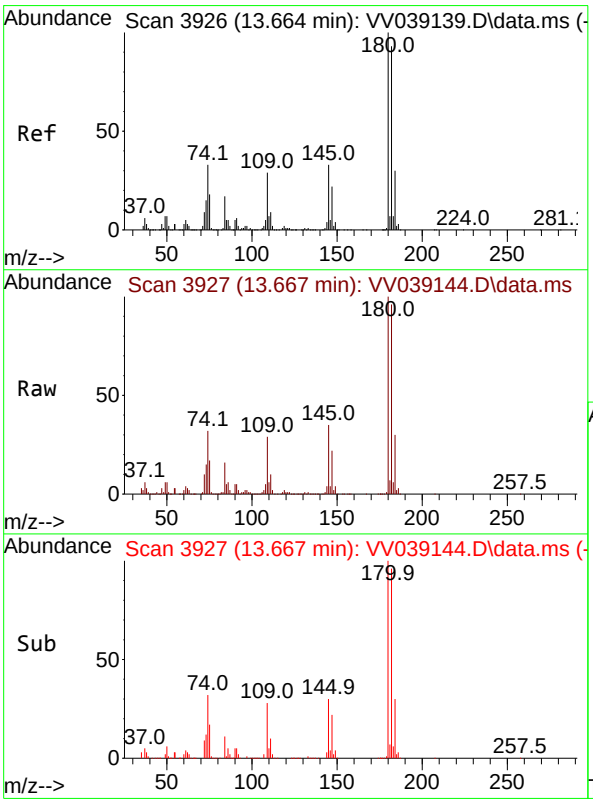
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.0 | 10.3 | 15.5 |
| 129 | 10.9 | 8.6 | 13.0 |




**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

**Manual Integrations**
**APPROVED**

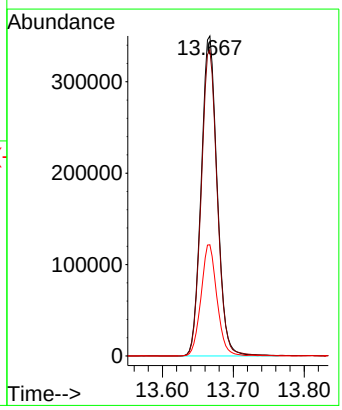
Reviewed By :Mahesh Dadoda 09/26/2025
Supervised By :Semsettin Yesilyurt 09/26/2025




#96
1,2,3-Trichlorobenzene
Concen: 52.633 ug/l
RT: 13.667 min Scan# 3927
Delta R.T. 0.003 min
Lab File: VV039144.D
Acq: 22 Sep 2025 16:58

Tgt Ion:180 Resp: 549079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.9 | 46.9 | 140.8 |
| 145 | 34.6 | 17.0 | 51.0 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039144.D
Acq On : 22 Sep 2025 16:58
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

Quant Time: Sep 24 08:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 94 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.791 | 0.716 | 9.5 | 91 | 0.00 |
| 3 | P | Chloromethane | 0.850 | 0.791 | 6.9 | 97 | 0.00 |
| 4 | C | Vinyl Chloride | 0.910 | 0.827 | 9.1# | 93 | 0.00 |
| 5 | T | Bromomethane | 0.573 | 0.517 | 9.8 | 96 | 0.00 |
| 6 | T | Chloroethane | 0.631 | 0.544 | 13.8 | 96 | 0.00 |
| 7 | T | Trichlorofluoromethane | 1.317 | 1.224 | 7.1 | 97 | 0.00 |
| 8 | T | Diethyl Ether | 0.489 | 0.451 | 7.8 | 95 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.784 | 0.728 | 7.1 | 98 | 0.00 |
| 10 | T | Methyl Iodide | 0.746 | 0.743 | 0.4 | 89 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.153 | 0.154 | -0.7 | 106 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.754 | 0.692 | 8.2# | 97 | 0.00 |
| 13 | T | Acrolein | 0.027 | 0.029 | -7.4 | 103 | 0.00 |
| 14 | T | Allyl chloride | 1.347 | 1.268 | 5.9 | 96 | 0.00 |
| 15 | T | Acrylonitrile | 0.490 | 0.470 | 4.1 | 101 | 0.00 |
| 16 | T | Acetone | 0.523 | 0.426 | 18.5 | 89 | 0.00 |
| 17 | T | Carbon Disulfide | 2.306 | 2.101 | 8.9 | 95 | 0.00 |
| 18 | T | Methyl Acetate | 1.072 | 1.063 | 0.8 | 102 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 2.402 | 2.269 | 5.5 | 96 | 0.00 |
| 20 | T | Methylene Chloride | 1.066 | 0.804 | 24.6# | 97 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.803 | 0.737 | 8.2 | 96 | 0.00 |
| 22 | T | Diisopropyl ether | 2.576 | 2.554 | 0.9 | 95 | 0.00 |
| 23 | T | Vinyl Acetate | 2.254 | 2.241 | 0.6 | 96 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.576 | 1.435 | 8.9 | 97 | 0.00 |
| 25 | T | 2-Butanone | 0.579 | 0.607 | -4.8 | 98 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 1.397 | 1.222 | 12.5 | 93 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.885 | 0.867 | 2.0 | 94 | 0.00 |
| 28 | T | Bromochloromethane | 0.696 | 0.725 | -4.2 | 101 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.363 | 0.401 | -10.5 | 102 | 0.00 |
| 30 | C | Chloroform | 1.645 | 1.546 | 6.0# | 98 | 0.00 |
| 31 | T | Cyclohexane | 1.291 | 1.234 | 4.4 | 93 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.424 | 1.337 | 6.1 | 97 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.724 | 0.695 | 4.0 | 101 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 92 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.402 | 0.409 | -1.7 | 99 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.608 | 0.654 | -7.6 | 97 | 0.00 |
| 37 | T | Ethyl Acetate | 0.737 | 0.768 | -4.2 | 99 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.743 | 0.735 | 1.1 | 96 | 0.00 |
| 39 | T | Methylcyclohexane | 0.734 | 0.843 | -14.9 | 94 | 0.00 |
| 40 | TM | Benzene | 1.979 | 2.070 | -4.6 | 96 | 0.00 |
| 41 | T | Methacrylonitrile | 0.273 | 0.345 | -26.4# | 96 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.693 | 0.711 | -2.6 | 98 | 0.00 |
| 43 | T | Isopropyl Acetate | 1.005 | 1.126 | -12.0 | 97 | 0.00 |
| 44 | TM | Trichloroethene | 0.457 | 0.468 | -2.4 | 93 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.492 | 0.536 | -8.9# | 98 | 0.00 |
| 46 | T | Dibromomethane | 0.376 | 0.385 | -2.4 | 96 | 0.00 |
| 47 | T | Bromodichloromethane | 0.778 | 0.797 | -2.4 | 97 | 0.00 |
| 48 | T | Methyl methacrylate | 0.456 | 0.539 | -18.2 | 98 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039144.D
Acq On : 22 Sep 2025 16:58
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

Quant Time: Sep 24 08:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 0.007 | 0.008 | -14.3 | 102 | 0.00 |
| 50 | S | Toluene-d8 | 1.181 | 1.232 | -4.3 | 100 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.661 | 0.802 | -21.3# | 101 | 0.00 |
| 52 | CM | Toluene | 1.147 | 1.297 | -13.1# | 97 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.678 | 0.757 | -11.7 | 96 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.749 | 0.841 | -12.3 | 95 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.514 | 0.527 | -2.5 | 98 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.611 | 0.743 | -21.6# | 95 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.812 | 0.873 | -7.5 | 98 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.267 | 0.359 | -34.5# | 93 | 0.00 |
| 59 | T | 2-Hexanone | 0.463 | 0.600 | -29.6# | 101 | 0.00 |
| 60 | T | Dibromochloromethane | 0.586 | 0.609 | -3.9 | 99 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.526 | 0.561 | -6.7 | 97 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.486 | 0.552 | -13.6 | 100 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 94 | 0.00 |
| 64 | T | Tetrachloroethene | 0.419 | 0.427 | -1.9 | 97 | 0.00 |
| 65 | PM | Chlorobenzene | 1.393 | 1.422 | -2.1 | 97 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.503 | 0.505 | -0.4 | 97 | 0.00 |
| 67 | C | Ethyl Benzene | 2.108 | 2.422 | -14.9# | 95 | 0.00 |
| 68 | T | m/p-Xylenes | 0.814 | 0.981 | -20.5# | 97 | 0.00 |
| 69 | T | o-Xylene | 0.720 | 0.871 | -21.0# | 97 | 0.00 |
| 70 | T | Styrene | 1.263 | 1.610 | -27.5# | 97 | 0.00 |
| 71 | P | Bromoform | 0.393 | 0.413 | -5.1 | 98 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 97 | 0.00 |
| 73 | T | Isopropylbenzene | 3.627 | 3.932 | -8.4 | 97 | 0.00 |
| 74 | T | N-amyl acetate | 1.447 | 1.682 | -16.2 | 97 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.589 | 1.449 | 8.8 | 99 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.138 | 1.127 | 1.0 | 104 | 0.00 |
| 77 | T | Bromobenzene | 0.941 | 0.926 | 1.6 | 97 | 0.00 |
| 78 | T | n-propylbenzene | 4.416 | 4.888 | -10.7 | 97 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.643 | 2.824 | -6.8 | 97 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.014 | 3.418 | -13.4 | 98 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.474 | 0.496 | -4.6 | 97 | 0.00 |
| 82 | T | 4-Chlorotoluene | 3.064 | 3.360 | -9.7 | 98 | 0.00 |
| 83 | T | tert-Butylbenzene | 3.006 | 3.221 | -7.2 | 97 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.926 | 3.391 | -15.9 | 97 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.987 | 4.378 | -9.8 | 97 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.318 | 3.683 | -11.0 | 97 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.904 | 1.879 | 1.3 | 98 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 2.089 | 1.943 | 7.0 | 97 | 0.00 |
| 89 | T | n-Butylbenzene | 3.169 | 3.596 | -13.5 | 96 | 0.00 |
| 90 | T | Hexachloroethane | 0.817 | 0.740 | 9.4 | 99 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.779 | 1.756 | 1.3 | 98 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.330 | 0.301 | 8.8 | 102 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 1.020 | 1.066 | -4.5 | 96 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.530 | 0.487 | 8.1 | 98 | 0.00 |
| 95 | T | Naphthalene | 3.296 | 3.839 | -16.5 | 98 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039144.D
Acq On : 22 Sep 2025 16:58
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

Quant Time: Sep 24 08:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 1.043 | 1.098 | -5.3 | 96 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039144.D
Acq On : 22 Sep 2025 16:58
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

Quant Time: Sep 24 08:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 94 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 45.238 | 9.5 | 91 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 46.523 | 7.0 | 97 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 45.467 | 9.1# | 93 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 45.085 | 9.8 | 96 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 50.873 | -1.7 | 96 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 46.452 | 7.1 | 97 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 46.136 | 7.7 | 95 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 46.465 | 7.1 | 98 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 49.783 | 0.4 | 89 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 252.173 | -0.9 | 106 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 45.922 | 8.2# | 97 | 0.00 |
| 13 | T | Acrolein | 250.000 | 271.925 | -8.8 | 103 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 47.092 | 5.8 | 96 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 239.637 | 4.1 | 101 | 0.00 |
| 16 | T | Acetone | 250.000 | 237.325 | 5.1 | 89 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 45.563 | 8.9 | 95 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 49.579 | 0.8 | 102 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 47.223 | 5.6 | 96 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 51.536 | -3.1 | 97 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 45.915 | 8.2 | 96 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 49.556 | 0.9 | 95 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 248.597 | 0.6 | 96 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 45.536 | 8.9 | 97 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 262.050 | -4.8 | 98 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 43.721 | 12.6 | 93 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 48.960 | 2.1 | 94 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 52.149 | -4.3 | 101 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 276.528 | -10.6 | 102 | 0.00 |
| 30 | C | Chloroform | 50.000 | 46.980 | 6.0# | 98 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 47.799 | 4.4 | 93 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 46.922 | 6.2 | 97 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 48.041 | 3.9 | 101 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 92 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 50.832 | -1.7 | 99 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 53.809 | -7.6 | 97 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 52.050 | -4.1 | 99 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 49.452 | 1.1 | 96 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 57.426 | -14.9 | 94 | 0.00 |
| 40 | TM | Benzene | 50.000 | 52.293 | -4.6 | 96 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 51.602 | -3.2 | 96 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 51.245 | -2.5 | 98 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 55.998 | -12.0 | 97 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 51.216 | -2.4 | 93 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 54.495 | -9.0# | 98 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 51.116 | -2.2 | 96 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 51.232 | -2.5 | 97 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 59.104 | -18.2 | 98 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039144.D
Acq On : 22 Sep 2025 16:58
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

Quant Time: Sep 24 08:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 1000.000 | 1133.346 | -13.3 | 102 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 52.199 | -4.4 | 100 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 303.119 | -21.2# | 101 | 0.00 |
| 52 | CM | Toluene | 50.000 | 56.517 | -13.0# | 97 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 55.823 | -11.6 | 96 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 56.154 | -12.3 | 95 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 51.231 | -2.5 | 98 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 60.810 | -21.6# | 95 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 53.769 | -7.5 | 98 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 259.936 | -4.0 | 93 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 280.545 | -12.2 | 101 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 51.926 | -3.9 | 99 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 53.295 | -6.6 | 97 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 56.823 | -13.6 | 100 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 94 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 50.954 | -1.9 | 97 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 51.041 | -2.1 | 97 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 50.136 | -0.3 | 97 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 57.438 | -14.9# | 95 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 120.582 | -20.6# | 97 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 60.414 | -20.8# | 97 | 0.00 |
| 70 | T | Styrene | 50.000 | 52.671 | -5.3 | 97 | 0.00 |
| 71 | P | Bromoform | 50.000 | 52.585 | -5.2 | 98 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 97 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 54.210 | -8.4 | 97 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 58.135 | -16.3 | 97 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 45.610 | 8.8 | 99 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 49.515 | 1.0 | 104 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 49.193 | 1.6 | 97 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 55.347 | -10.7 | 97 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 53.426 | -6.9 | 97 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 56.698 | -13.4 | 98 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 52.262 | -4.5 | 97 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 54.824 | -9.6 | 98 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 53.584 | -7.2 | 97 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 57.944 | -15.9 | 97 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 54.911 | -9.8 | 97 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 55.495 | -11.0 | 97 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 49.328 | 1.3 | 98 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 46.502 | 7.0 | 97 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 56.740 | -13.5 | 96 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 45.296 | 9.4 | 99 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 49.362 | 1.3 | 98 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 52.479 | -5.0 | 102 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 52.259 | -4.5 | 96 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 45.942 | 8.1 | 98 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 58.231 | -16.5 | 98 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039144.D
Acq On : 22 Sep 2025 16:58
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
ICVVV092225

Quant Time: Sep 24 08:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 52.633 | -5.3 | 96 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

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

## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance | Contract: TECH05

Lab Code: ACE | SDG No.: Q3195

Instrument ID: MSVOA_V | Calibration Date/Time: 09/25/2025 09:59

Lab File ID: VV039168.D | Init. Calib. Date(s): 09/22/2025 09/22/2025

Heated Purge: (Y/N) N | Init. Calib. Time(s): 12:26 16:35

GC Column: DB-624UI ID: 0.18 (mm)

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.792 | 0.682 | | -13.89 | 20 |
| Chloromethane | 0.850 | 0.729 | 0.1 | -14.23 | 20 |
| Vinyl Chloride | 0.910 | 0.819 | | -10 | 20 |
| Bromomethane | 0.573 | 0.458 | | -20.07 | 20 |
| Chloroethane | 0.631 | 0.507 | | -19.65 | 20 |
| Trichlorofluoromethane | 1.317 | 1.199 | | -8.96 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.784 | 0.710 | | -9.44 | 20 |
| 1,1-Dichloroethene | 0.754 | 0.698 | | -7.43 | 20 |
| Acetone | 0.523 | 0.406 | | -22.37 | 20 |
| Carbon Disulfide | 2.306 | 2.004 | | -13.1 | 20 |
| Methyl tert-butyl Ether | 2.402 | 2.247 | | -6.45 | 20 |
| Methyl Acetate | 1.072 | 0.995 | | -7.18 | 20 |
| Methylene Chloride | 1.066 | 0.788 | | -26.08 | 20 |
| trans-1,2-Dichloroethene | 0.803 | 0.724 | | -9.84 | 20 |
| 1,1-Dichloroethane | 1.576 | 1.367 | 0.1 | -13.26 | 20 |
| Cyclohexane | 1.291 | 1.147 | | -11.15 | 20 |
| 2-Butanone | 0.579 | 0.544 | | -6.05 | 20 |
| Carbon Tetrachloride | 0.743 | 0.689 | | -7.27 | 20 |
| cis-1,2-Dichloroethene | 0.885 | 0.825 | | -6.78 | 20 |
| Bromochloromethane | 0.696 | 0.612 | | -12.07 | 20 |
| Chloroform | 1.645 | 1.426 | | -13.31 | 20 |
| 1,1,1-Trichloroethane | 1.424 | 1.255 | | -11.87 | 20 |
| Methylcyclohexane | 0.734 | 0.797 | | 8.58 | 20 |
| Benzene | 1.979 | 1.926 | | -2.68 | 20 |
| 1,2-Dichloroethane | 0.693 | 0.639 | | -7.79 | 20 |
| Trichloroethene | 0.457 | 0.463 | | 1.31 | 20 |
| 1,2-Dichloropropane | 0.492 | 0.493 | | 0.2 | 20 |
| Bromodichloromethane | 0.778 | 0.729 | | -6.3 | 20 |
| 4-Methyl-2-Pentanone | 0.661 | 0.702 | | 6.2 | 20 |
| Toluene | 1.147 | 1.204 | | 4.97 | 20 |
| t-1,3-Dichloropropene | 0.678 | 0.709 | | 4.57 | 20 |
| cis-1,3-Dichloropropene | 0.749 | 0.783 | | 4.54 | 20 |
| 1,1,2-Trichloroethane | 0.514 | 0.498 | | -3.11 | 20 |
| 2-Hexanone | 0.463 | 0.528 | | 14.04 | 20 |
| Dibromochloromethane | 0.586 | 0.574 | | -2.05 | 20 |
| 1,2-Dibromoethane | 0.526 | 0.534 | | 1.52 | 20 |
| Tetrachloroethene | 0.419 | 0.418 | | -0.24 | 20 |
| Chlorobenzene | 1.393 | 1.377 | 0.3 | -1.15 | 20 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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

## VOLATILE CONTINUING CALIBRATION CHECK

| | | | |
|---|---|---|---|
| Lab Name: | Alliance | Contract: | TECH05 |
| Lab Code: | ACE | SDG No.: | Q3195 |
| Instrument ID: | MSVOA_V | Calibration Date/Time: | 09/25/2025 09:59 |
| Lab File ID: | VV039168.D | Init. Calib. Date(s): | 09/22/2025 09/22/2025 |
| Heated Purge: (Y/N) | N | Init. Calib. Time(s): | 12:26 16:35 |

GC Column: DB-624UI ID: 0.18 (mm)

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Ethyl Benzene | 2.108 | 2.320 | | 10.06 | 20 |
| m/p-Xylenes | 0.814 | 0.936 | | 14.99 | 20 |
| o-Xylene | 0.720 | 0.841 | | 16.81 | 20 |
| Styrene | 1.263 | 1.530 | | 21.14 | 20 |
| Bromoform | 0.393 | 0.402 | 0.1 | 2.29 | 20 |
| Isopropylbenzene | 3.627 | 3.946 | | 8.8 | 20 |
| 1,1,2,2-Tetrachloroethane | 1.589 | 1.396 | 0.3 | -12.15 | 20 |
| 1,3-Dichlorobenzene | 1.904 | 1.857 | | -2.47 | 20 |
| 1,4-Dichlorobenzene | 2.089 | 1.903 | | -8.9 | 20 |
| 1,2-Dichlorobenzene | 1.779 | 1.736 | | -2.42 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.330 | 0.292 | | -11.52 | 20 |
| 1,2,4-Trichlorobenzene | 1.020 | 1.062 | | 4.12 | 20 |
| 1,2,3-Trichlorobenzene | 1.043 | 1.082 | | 3.74 | 20 |
| 1,2-Dichloroethane-d4 | 0.724 | 0.609 | | -15.88 | 20 |
| Dibromofluoromethane | 0.402 | 0.384 | | -4.48 | 20 |
| Toluene-d8 | 1.181 | 1.121 | | -5.08 | 20 |
| 4-Bromofluorobenzene | 0.486 | 0.508 | | 4.53 | 20 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039168.D
Acq On : 25 Sep 2025 09:59
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Quant Time: Sep 26 01:18:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.596 | 168 | 605297 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.529 | 114 | 933338 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.773 | 117 | 901987 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.172 | 152 | 535710 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.937 | 65 | 368829 | 42.102 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 84.200% | | | |
| 35) Dibromofluoromethane | 4.497 | 113 | 358851 | 47.826 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 95.660% | | | |
| 50) Toluene-d8 | 7.233 | 98 | 1046447 | 47.485 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 94.980% | | | |
| 62) 4-Bromofluorobenzene | 9.998 | 95 | 473731 | 52.218 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 104.440% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.121 | 85 | 412859 | 43.088 | ug/l | 96 |
| 3) Chloromethane | 1.227 | 50 | 441526 | 42.924 | ug/l | 99 |
| 4) Vinyl Chloride | 1.294 | 62 | 495985 | 45.040 | ug/l | 99 |
| 5) Bromomethane | 1.494 | 94 | 277073 | 39.912 | ug/l | 99 |
| 6) Chloroethane | 1.558 | 64 | 307095 | 47.163 | ug/l | 96 |
| 7) Trichlorofluoromethane | 1.722 | 101 | 725756 | 45.520 | ug/l | 99 |
| 8) Diethyl Ether | 1.915 | 74 | 273800 | 46.259 | ug/l | 95 |
| 9) 1,1,2-Trichlorotrifluo... | 2.079 | 101 | 429502 | 45.275 | ug/l | 98 |
| 10) Methyl Iodide | 2.195 | 142 | 394240 | 43.640 | ug/l | 99 |
| 11) Tert butyl alcohol | 2.571 | 59 | 462139 | 249.596 | ug/l | 98 |
| 12) 1,1-Dichloroethene | 2.079 | 96 | 422387 | 46.283 | ug/l | 93 |
| 13) Acrolein | 2.008 | 56 | 73826 | 229.786 | ug/l | 96 |
| 14) Allyl chloride | 2.355 | 41 | 725818 | 44.523 | ug/l | 97 |
| 15) Acrylonitrile | 2.670 | 53 | 1328524 | 223.829 | ug/l | 99 |
| 16) Acetone | 2.117 | 43 | 1227421 | 224.844 | ug/l | 98 |
| 17) Carbon Disulfide | 2.249 | 76 | 1213128 | 43.464 | ug/l | 99 |
| 18) Methyl Acetate | 2.378 | 43 | 602375 | 46.408 | ug/l | 97 |
| 19) Methyl tert-butyl Ether | 2.709 | 73 | 1360066 | 46.768 | ug/l | 99 |
| 20) Methylene Chloride | 2.455 | 84 | 477153 | 50.438 | ug/l | 94 |
| 21) trans-1,2-Dichloroethene | 2.699 | 96 | 438480 | 45.131 | ug/l | 98 |
| 22) Diisopropyl ether | 3.214 | 45 | 1401924 | 44.947 | ug/l | 97 |
| 23) Vinyl Acetate | 3.185 | 43 | 6223966 | 228.109 | ug/l | 98 |
| 24) 1,1-Dichloroethane | 3.114 | 63 | 827604 | 43.389 | ug/l | 100 |
| 25) 2-Butanone | 3.863 | 43 | 1647490 | 234.849 | ug/l | 96 |
| 26) 2,2-Dichloropropane | 3.805 | 77 | 690029 | 40.800 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 3.815 | 96 | 499109 | 46.579 | ug/l | 98 |
| 28) Bromochloromethane | 4.143 | 49 | 370658 | 44.019 | ug/l | 91 |
| 29) Tetrahydrofuran | 4.233 | 42 | 1075144 | 244.856 | ug/l | 97 |
| 30) Chloroform | 4.275 | 83 | 862902 | 43.324 | ug/l | 98 |
| 31) Cyclohexane | 4.580 | 56 | 694256 | 44.432 | ug/l | 97 |
| 32) 1,1,1-Trichloroethane | 4.510 | 97 | 759916 | 44.071 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 4.741 | 75 | 562517 | 49.586 | ug/l | 99 |
| 37) Ethyl Acetate | 3.973 | 43 | 650966 | 47.290 | ug/l | 98 |
| 38) Carbon Tetrachloride | 4.731 | 117 | 642615 | 46.350 | ug/l | 99 |
| 39) Methylcyclohexane | 6.043 | 83 | 743575 | 54.277 | ug/l | 99 |
| 40) Benzene | 5.005 | 78 | 1797939 | 48.671 | ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039168.D
Acq On : 25 Sep 2025 09:59
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Quant Time: Sep 26 01:18:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.156 | 41 | 291884 | 47.017 | ug/l | | 98 |
| 42) 1,2-Dichloroethane | 5.037 | 62 | 596048 | 46.050 | ug/l | | 98 |
| 43) Isopropyl Acetate | 5.191 | 43 | 954350 | 50.848 | ug/l | | 98 |
| 44) Trichloroethene | 5.828 | 130 | 432014 | 50.680 | ug/l | | 99 |
| 45) 1,2-Dichloropropane | 6.085 | 63 | 459902 | 50.088 | ug/l | | 99 |
| 46) Dibromomethane | 6.220 | 93 | 337738 | 48.059 | ug/l | | 97 |
| 47) Bromodichloromethane | 6.423 | 83 | 680557 | 46.843 | ug/l | | 98 |
| 48) Methyl methacrylate | 6.294 | 41 | 449431 | 52.825 | ug/l | | 98 |
| 49) 1,4-Dioxane | 6.291 | 88 | 155938 | 1135.751 | ug/l | | 97 |
| 51) 4-Methyl-2-Pentanone | 7.146 | 43 | 3274291 | 265.177 | ug/l | | 98 |
| 52) Toluene | 7.307 | 92 | 1123906 | 52.474 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 7.571 | 75 | 661472 | 52.243 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 6.944 | 75 | 731190 | 52.312 | ug/l | | 97 |
| 55) 1,1,2-Trichloroethane | 7.757 | 97 | 465236 | 48.443 | ug/l | | 98 |
| 56) Ethyl methacrylate | 7.712 | 69 | 658147 | 57.707 | ug/l | | 95 |
| 57) 1,3-Dichloropropane | 7.931 | 76 | 748312 | 49.373 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 6.808 | 63 | 1657102 | 257.039 | ug/l | | 99 |
| 59) 2-Hexanone | 8.062 | 43 | 2465950 | 247.438 | ug/l | | 97 |
| 60) Dibromochloromethane | 8.165 | 129 | 535532 | 48.938 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 8.271 | 107 | 498142 | 50.719 | ug/l | | 100 |
| 64) Tetrachloroethene | 7.895 | 164 | 376666 | 49.857 | ug/l | | 97 |
| 65) Chlorobenzene | 8.802 | 112 | 1242390 | 49.450 | ug/l | | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 8.895 | 131 | 435516 | 47.975 | ug/l | | 98 |
| 67) Ethyl Benzene | 8.934 | 91 | 2092639 | 55.024 | ug/l | | 99 |
| 68) m/p-Xylenes | 9.059 | 106 | 1688294 | 115.018 | ug/l | | 100 |
| 69) o-Xylene | 9.468 | 106 | 758328 | 58.347 | ug/l | | 98 |
| 70) Styrene | 9.484 | 104 | 1379790 | 50.114 | ug/l | | 99 |
| 71) Bromoform | 9.651 | 173 | 362481 | 51.118 | ug/l | # | 99 |
| 73) Isopropylbenzene | 9.853 | 105 | 2113988 | 54.407 | ug/l | | 99 |
| 74) N-amyl acetate | 9.725 | 43 | 853417 | 55.064 | ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 10.165 | 83 | 747856 | 43.928 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 10.197 | 75 | 573502 | 47.019 | ug/l | | 98 |
| 77) Bromobenzene | 10.140 | 156 | 497564 | 49.357 | ug/l | | 98 |
| 78) n-propylbenzene | 10.278 | 91 | 2554851 | 53.995 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 10.345 | 91 | 1498849 | 52.939 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 10.464 | 105 | 1809221 | 56.020 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 9.927 | 75 | 258743 | 50.926 | ug/l | | 97 |
| 82) 4-Chlorotoluene | 10.461 | 91 | 1769699 | 53.904 | ug/l | | 100 |
| 83) tert-Butylbenzene | 10.789 | 119 | 1725454 | 53.579 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 10.837 | 105 | 1777572 | 56.693 | ug/l | | 98 |
| 85) sec-Butylbenzene | 11.011 | 105 | 2294341 | 53.713 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 11.165 | 119 | 1933306 | 54.380 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 11.104 | 146 | 995077 | 48.773 | ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 11.194 | 146 | 1019216 | 45.535 | ug/l | | 99 |
| 89) n-Butylbenzene | 11.580 | 91 | 1854102 | 54.607 | ug/l | | 100 |
| 90) Hexachloroethane | 11.821 | 117 | 387482 | 44.260 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 11.567 | 146 | 930166 | 48.799 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.348 | 75 | 156226 | 50.961 | ug/l | | 97 |
| 93) 1,2,4-Trichlorobenzene | 13.184 | 180 | 568781 | 52.055 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 13.368 | 225 | 261028 | 45.975 | ug/l | | 99 |
| 95) Naphthalene | 13.422 | 128 | 2039508 | 57.749 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 13.667 | 180 | 579422 | 51.848 | ug/l | | 97 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039168.D
Acq On : 25 Sep 2025 09:59
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Quant Time: Sep 26 01:18:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

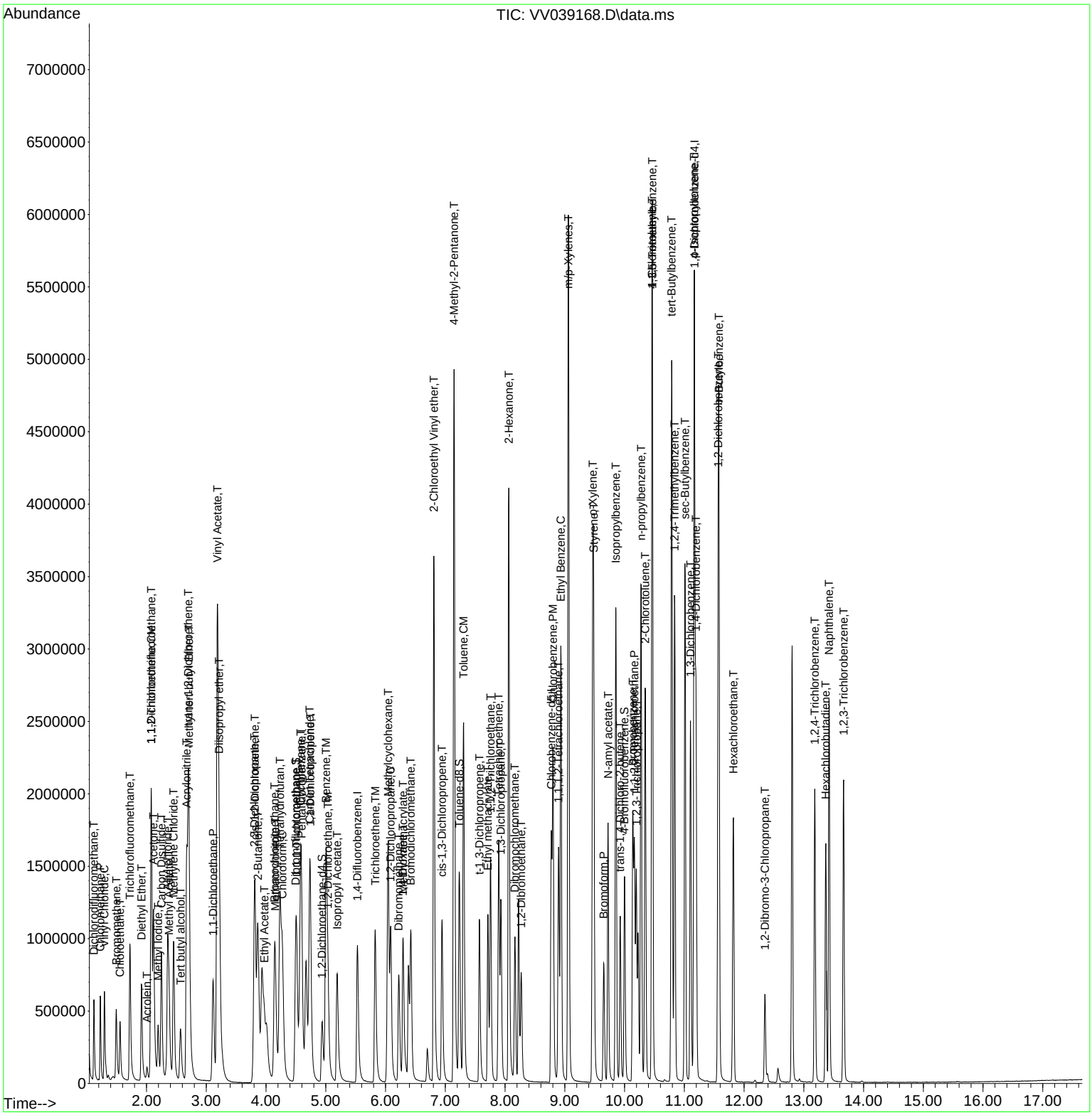
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

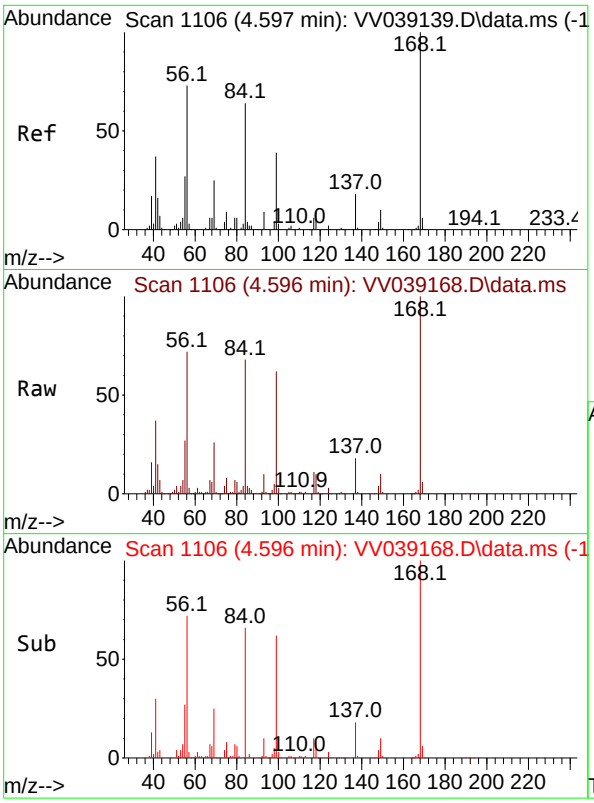
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039168.D
Acq On : 25 Sep 2025 09:59
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Quant Time: Sep 26 01:18:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



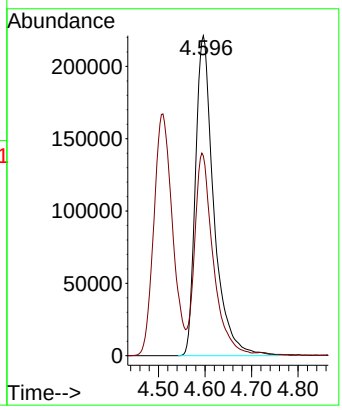


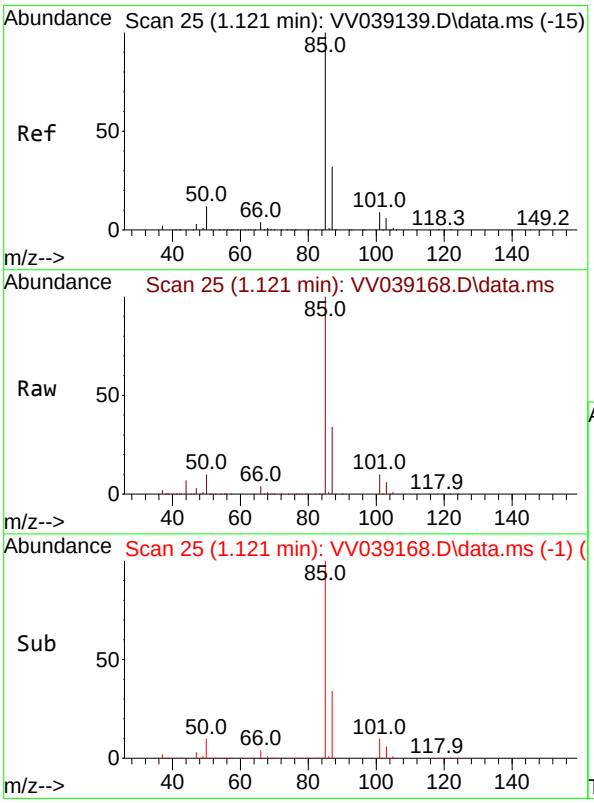

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.596 min Scan# 11
Delta R.T. -0.001 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:168 Resp: 605297

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 62.1 | 49.6 | 74.4 |

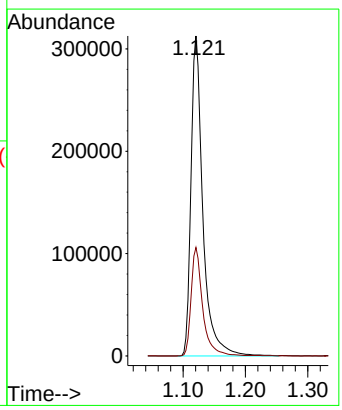


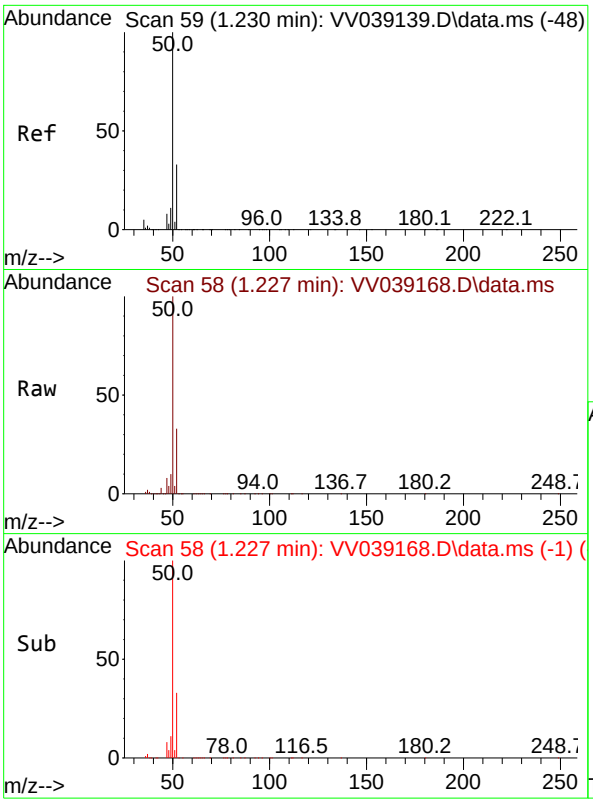




#2
Dichlorodifluoromethane
Concen: 43.088 ug/l
RT: 1.121 min Scan# 25
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 85 Resp: 412859

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.9 | 16.0 | 47.9 |



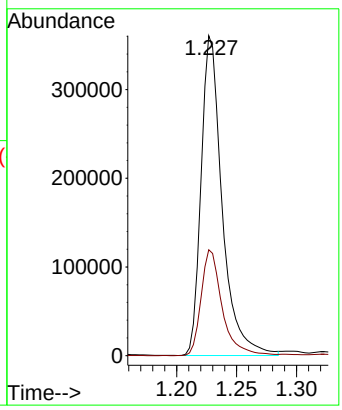


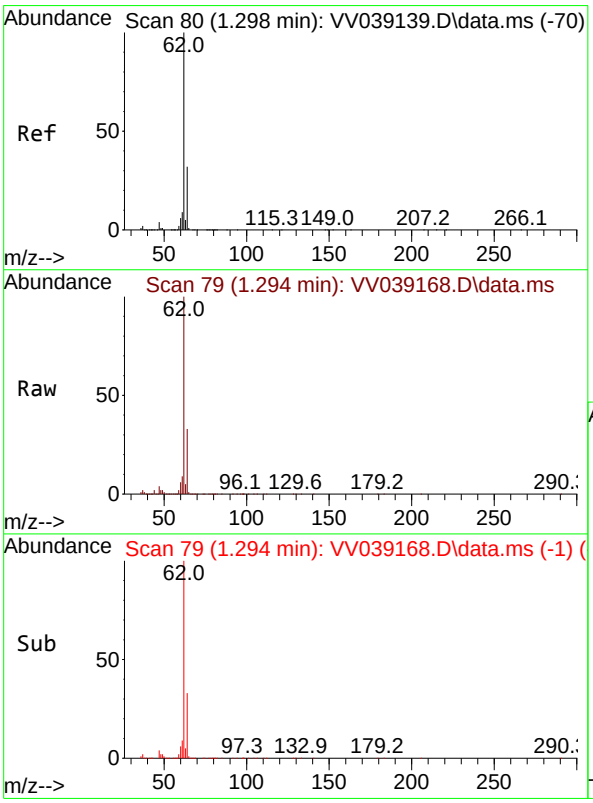

#3
Chloromethane
Concen: 42.924 ug/l
RT: 1.227 min Scan# 5
Delta R.T. -0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 50 Resp: 441526

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.1 | 26.0 | 39.0 |

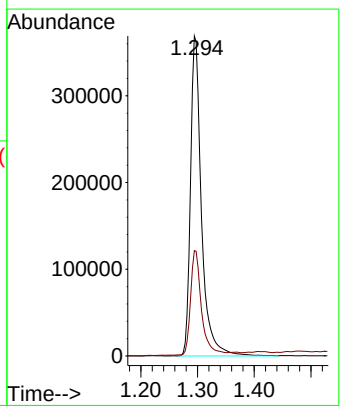


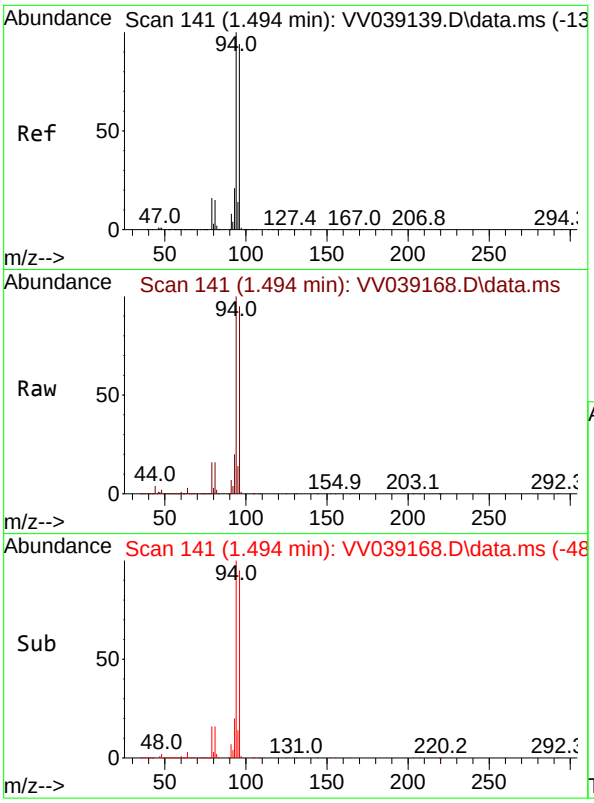




#4
Vinyl Chloride
Concen: 45.040 ug/l
RT: 1.294 min Scan# 79
Delta R.T. -0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 62 Resp: 495985

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.6 | 25.6 | 38.4 |



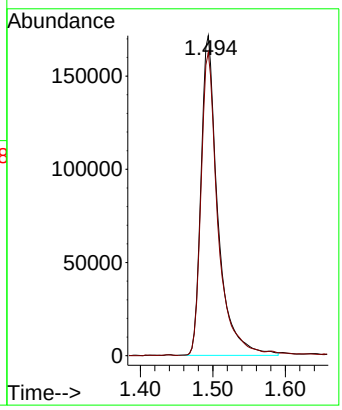


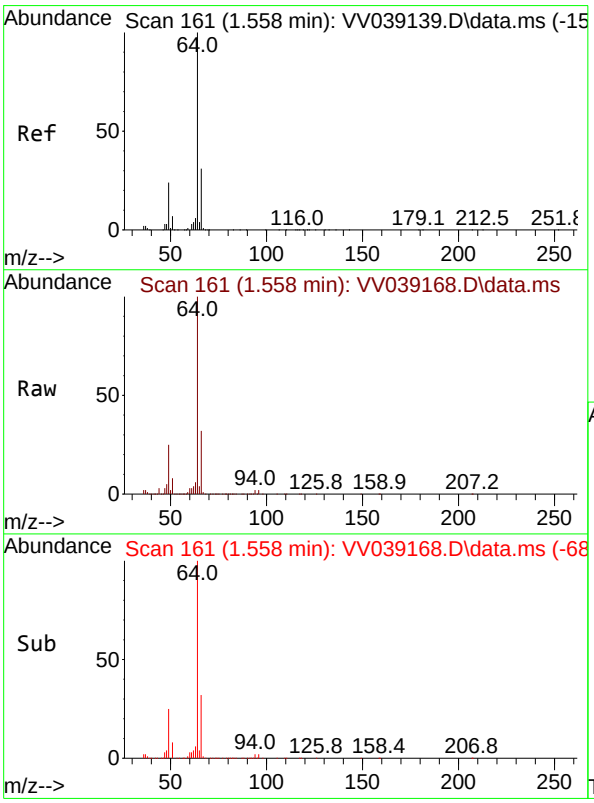

#5
Bromomethane
Concen: 39.912 ug/l
RT: 1.494 min Scan# 14
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 94 Resp: 277073

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 94.7 | 74.9 | 112.3 |

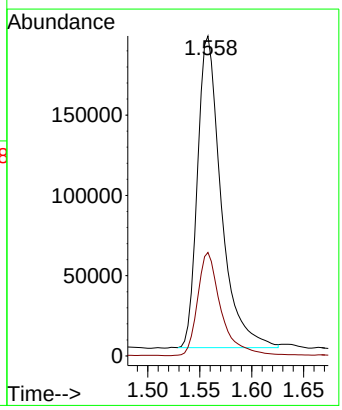


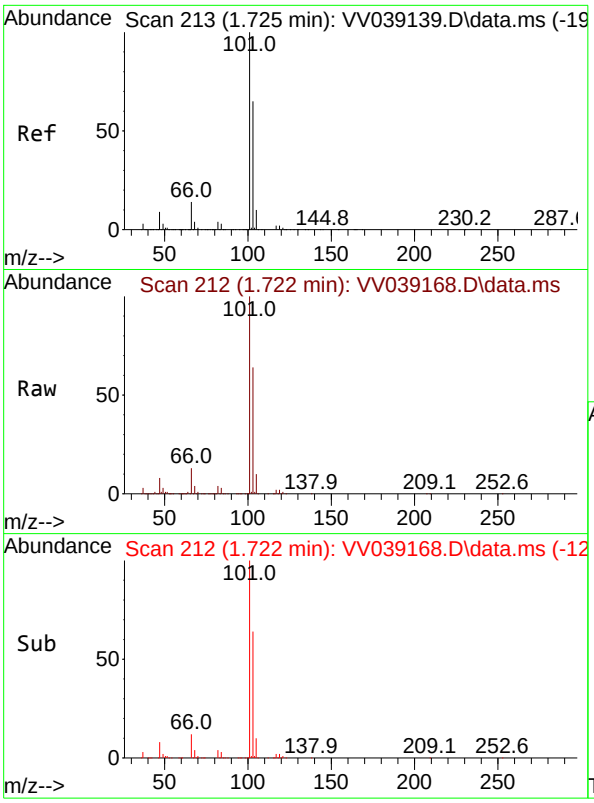




#6
Chloroethane
Concen: 47.163 ug/l
RT: 1.558 min Scan# 161
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 64 Resp: 307095

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.9 | 24.6 | 36.8 |



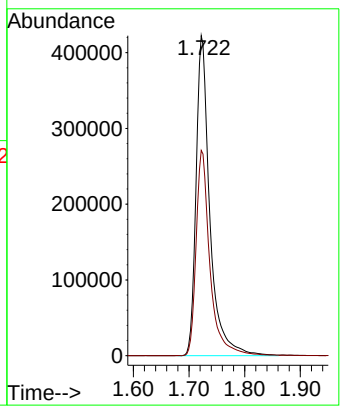


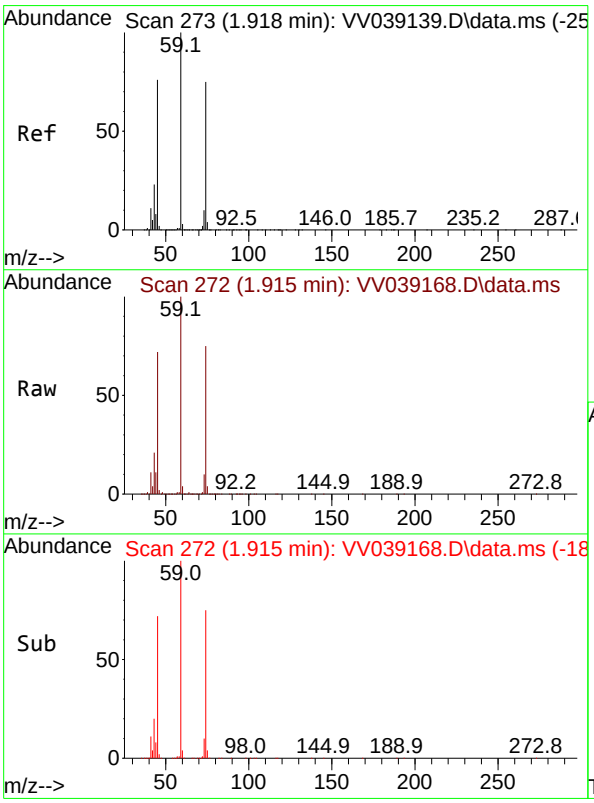

#7
Trichlorofluoromethane
Concen: 45.520 ug/l
RT: 1.722 min Scan# 21
Delta R.T. -0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:101 Resp: 725756

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.1 | 52.0 | 78.0 |

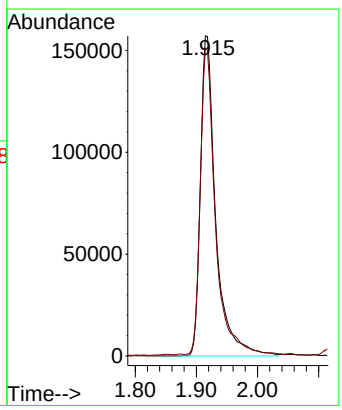


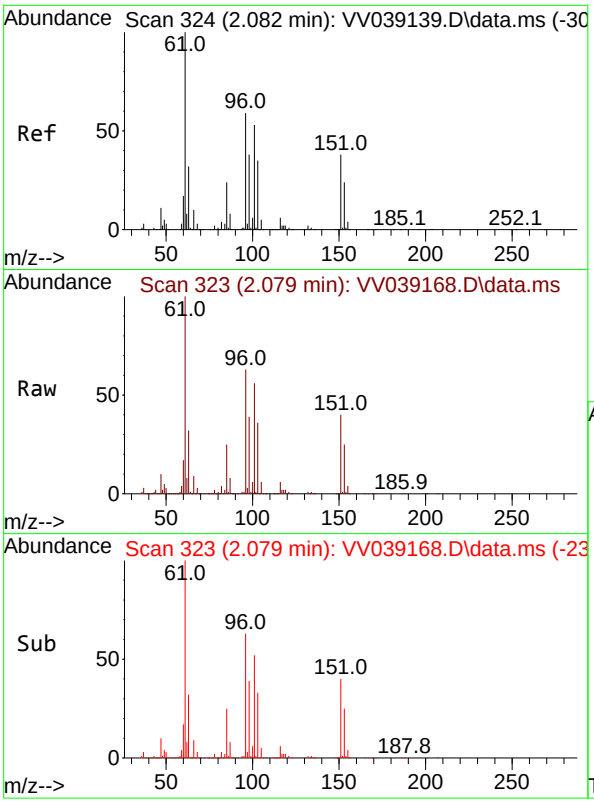




#8
Diethyl Ether
Concen: 46.259 ug/l
RT: 1.915 min Scan# 272
Delta R.T. -0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 74 Resp: 273800

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 93.9 | 49.6 | 148.8 |



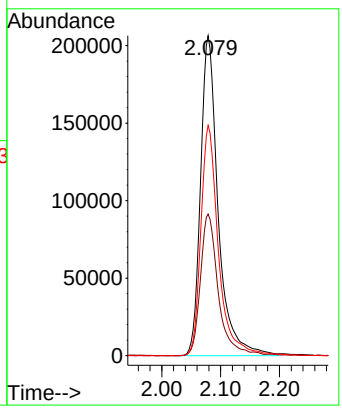


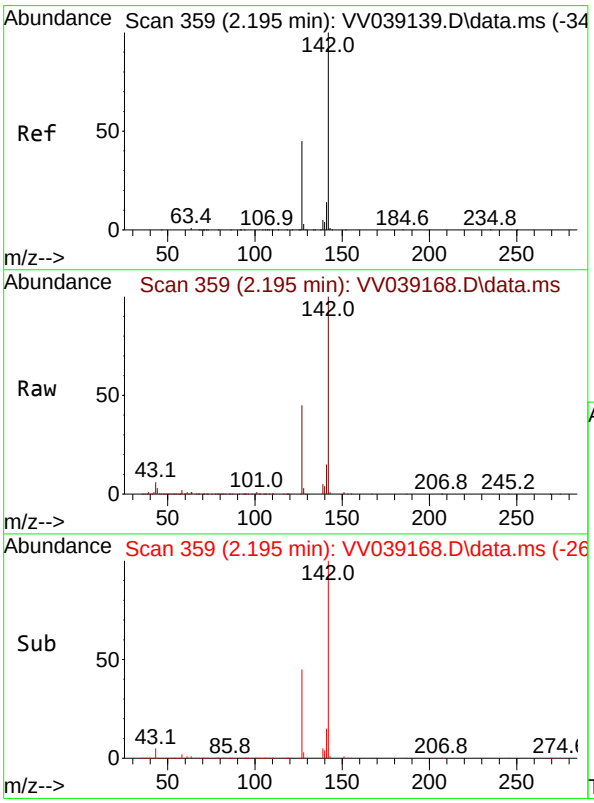

#9
1,1,2-Trichlorotrifluoroethane
Concen: 45.275 ug/l
RT: 2.079 min Scan# 3
Delta R.T. -0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:101 Resp: 429502

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 44.8 | 36.2 | 54.2 |
| 151 | 72.4 | 56.3 | 84.5 |

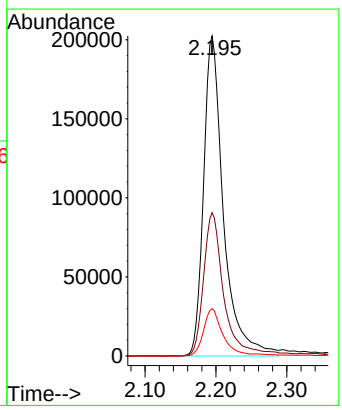


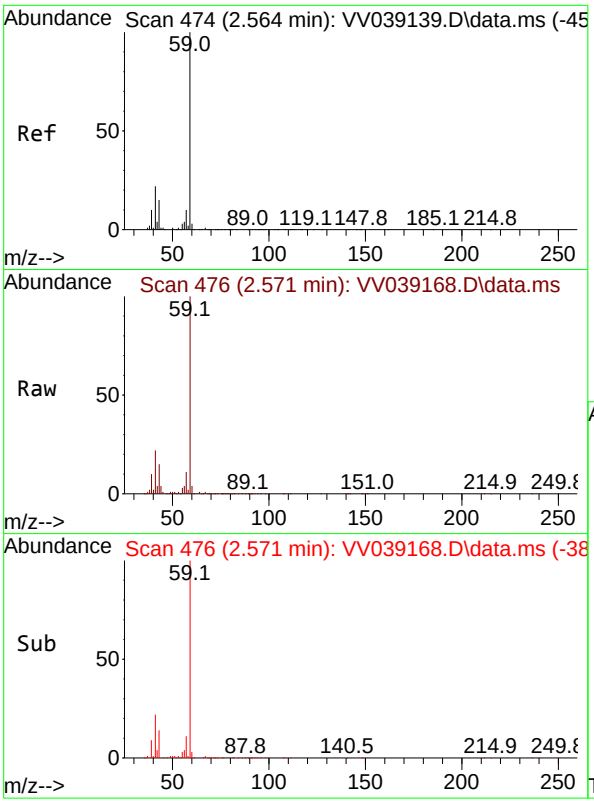




#10
Methyl Iodide
Concen: 43.640 ug/l
RT: 2.195 min Scan# 359
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion:142 Resp: 394240

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 46.0 | 36.3 | 54.5 |
| 141 | 14.1 | 11.2 | 16.8 |



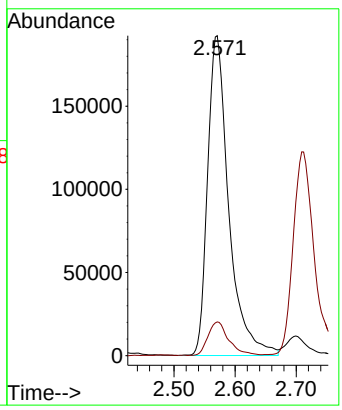


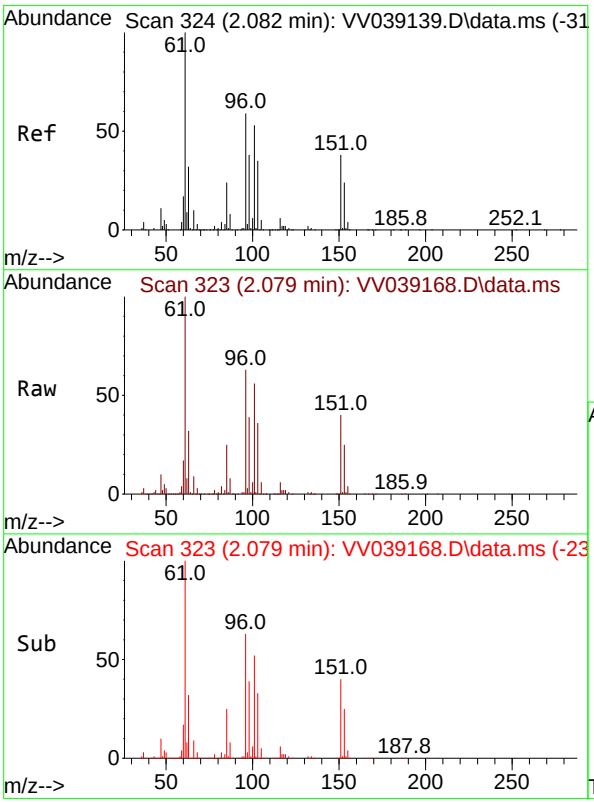

#11
Tert butyl alcohol
Concen: 249.596 ug/l
RT: 2.571 min Scan# 4
Delta R.T. 0.006 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 59 Resp: 462139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.4 | 7.8 | 11.8 |

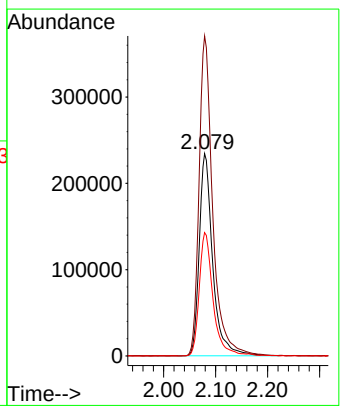


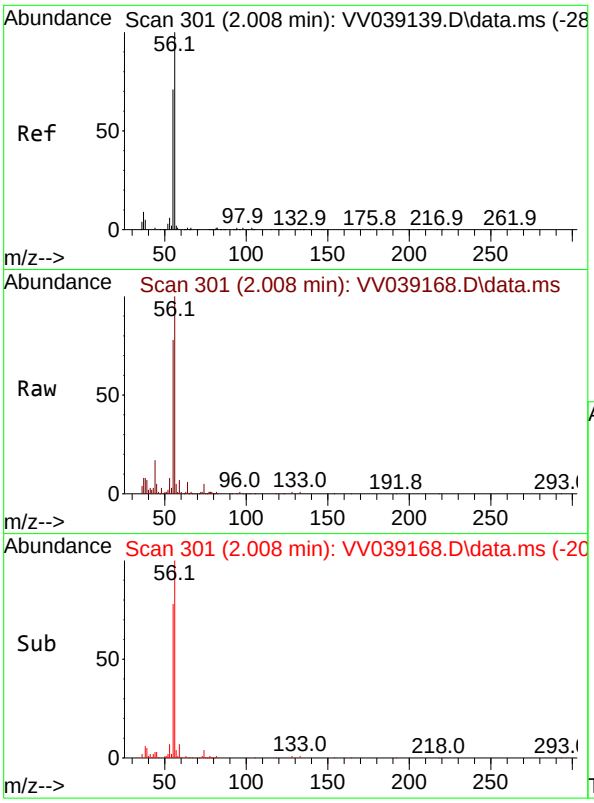




#12
1,1-Dichloroethene
Concen: 46.283 ug/l
RT: 2.079 min Scan# 323
Delta R.T. -0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 96 Resp: 422387

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 158.1 | 136.0 | 204.0 |
| 98 | 61.0 | 51.0 | 76.6 |



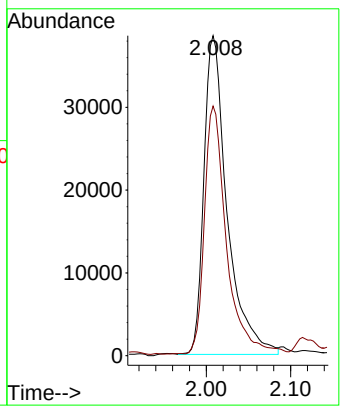


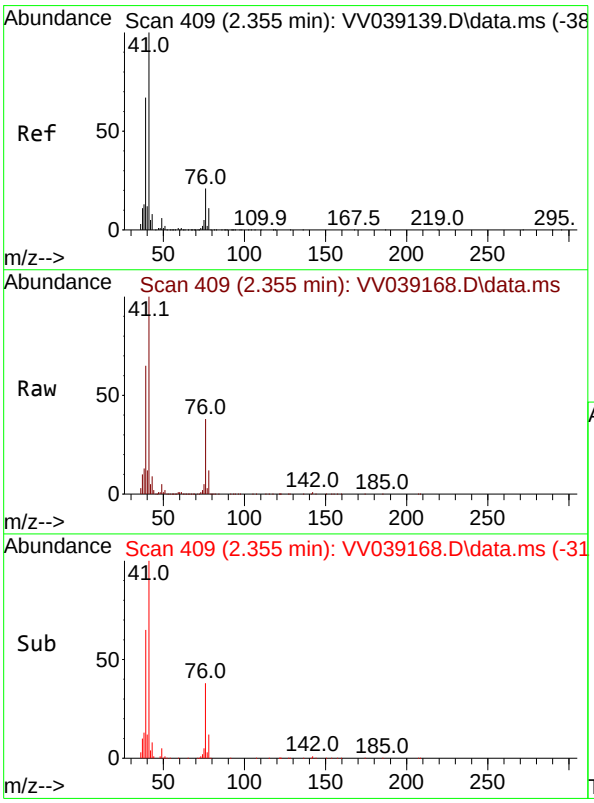

#13
Acrolein
Concen: 229.786 ug/l
RT: 2.008 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 56 Resp: 73826

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 73.5 | 56.2 | 84.4 |

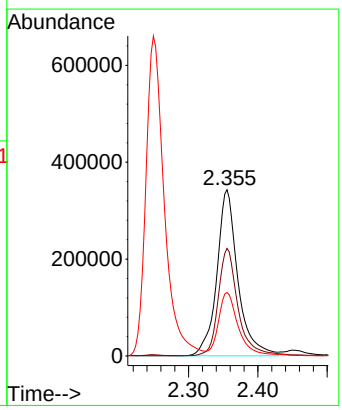


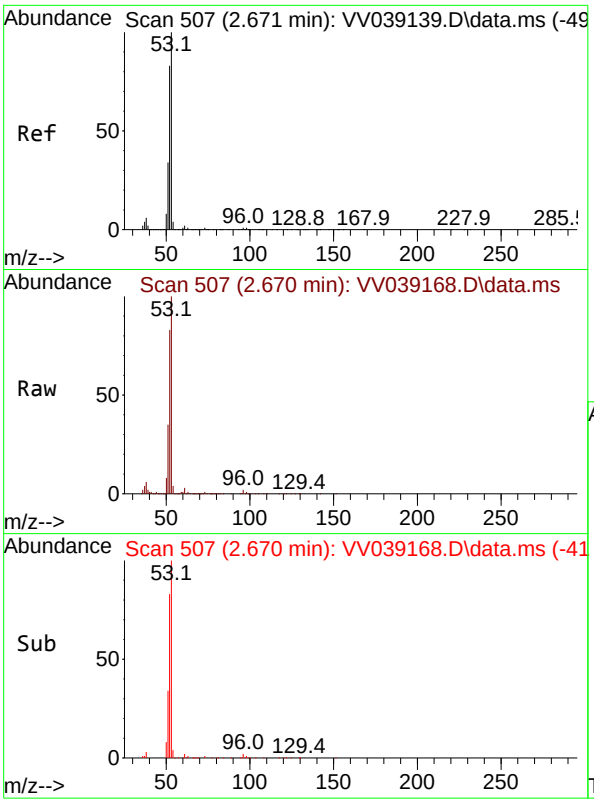




#14
Allyl chloride
Concen: 44.523 ug/l
RT: 2.355 min Scan# 409
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 41 Resp: 725818

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 60.8 | 51.0 | 76.6 |
| 76 | 36.3 | 28.2 | 42.4 |



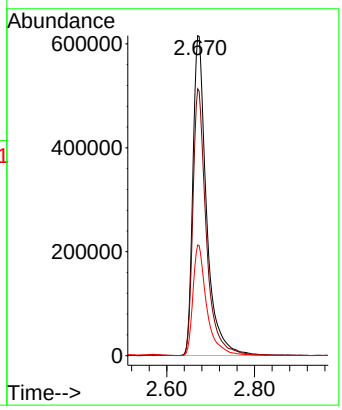


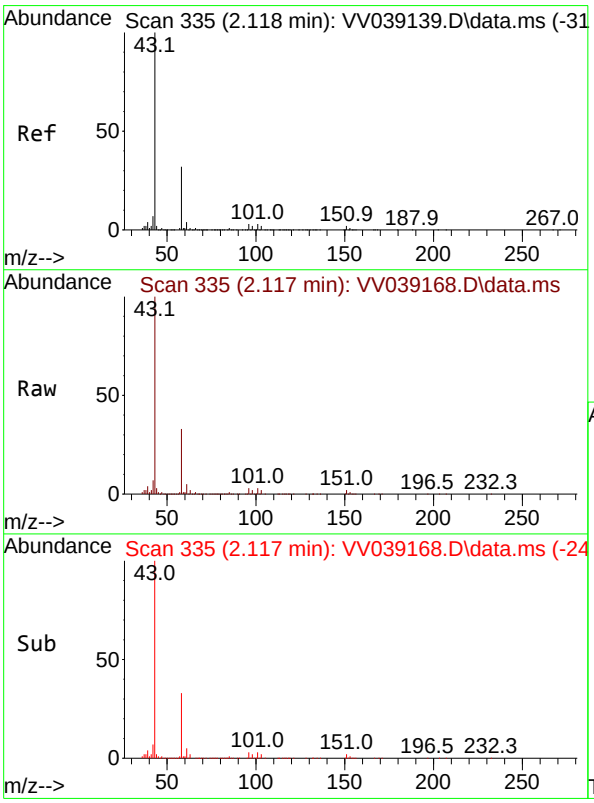

#15
Acrylonitrile
Concen: 223.829 ug/l
RT: 2.670 min Scan# 5
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 53 Resp: 1328524

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.0 | 66.1 | 99.1 |
| 51 | 35.1 | 28.5 | 42.7 |

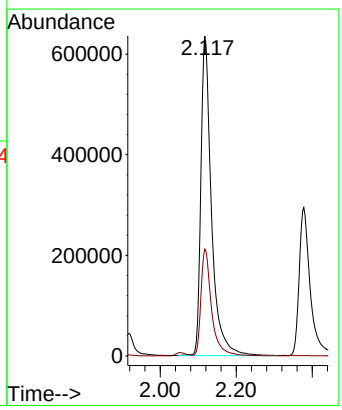


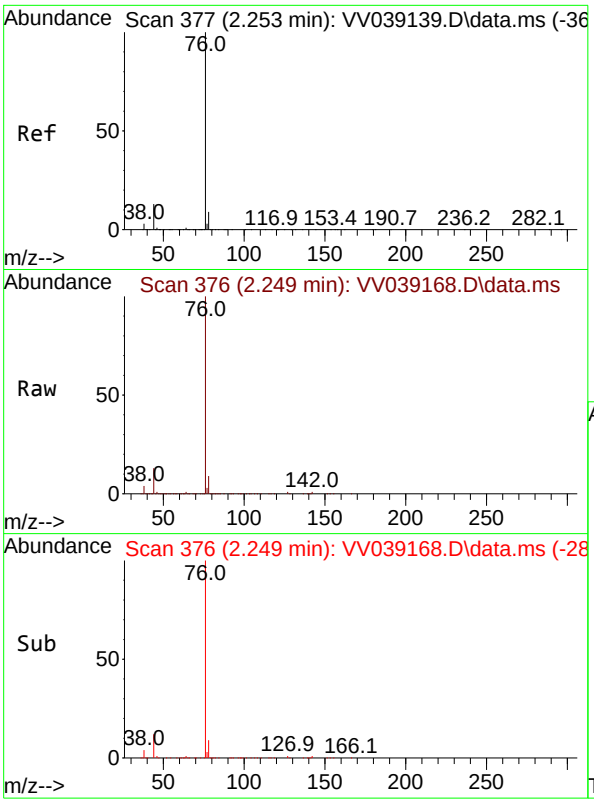




#16
Acetone
Concen: 224.844 ug/l
RT: 2.117 min Scan# 335
Delta R.T. -0.001 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 43 Resp: 1227421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.3 | 25.8 | 38.6 |



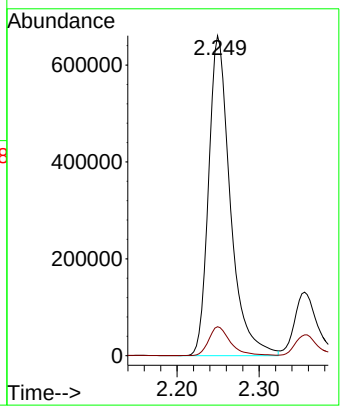


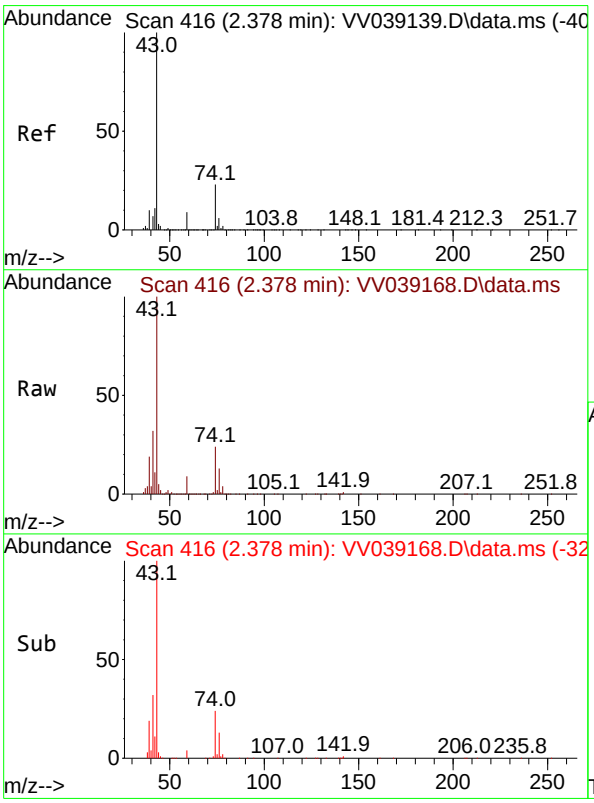

#17
Carbon Disulfide
Concen: 43.464 ug/l
RT: 2.249 min Scan# 3
Delta R.T. -0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 76 Resp: 1213128

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.0 | 7.4 | 11.0 |

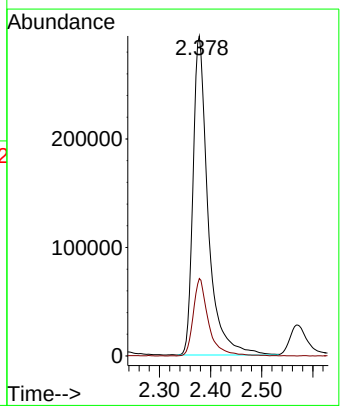


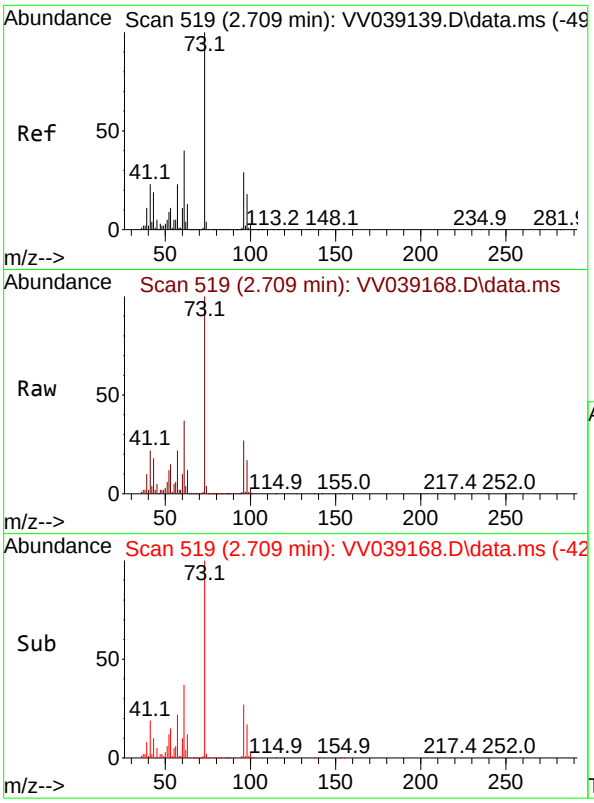




#18
Methyl Acetate
Concen: 46.408 ug/l
RT: 2.378 min Scan# 416
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 43 Resp: 602375

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 24.6 | 18.6 | 27.8 |



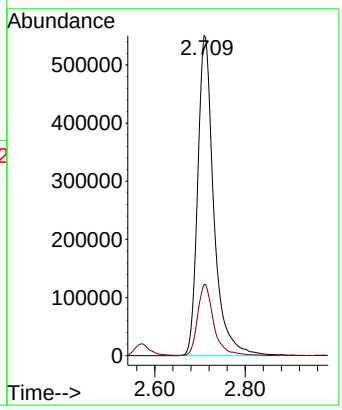


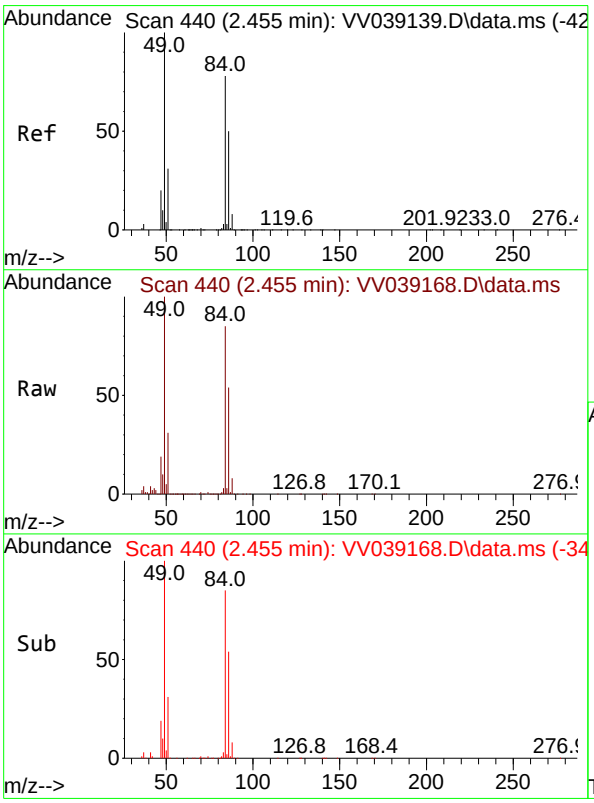

#19
Methyl tert-butyl Ether
Concen: 46.768 ug/l
RT: 2.709 min Scan# 5
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 73 Resp: 1360066

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.1 | 18.2 | 27.4 |

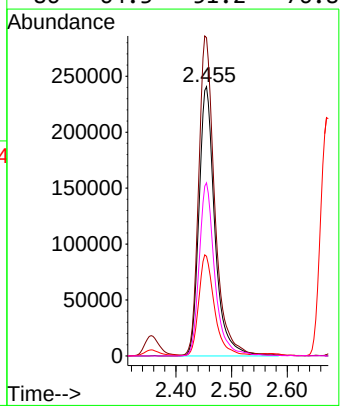


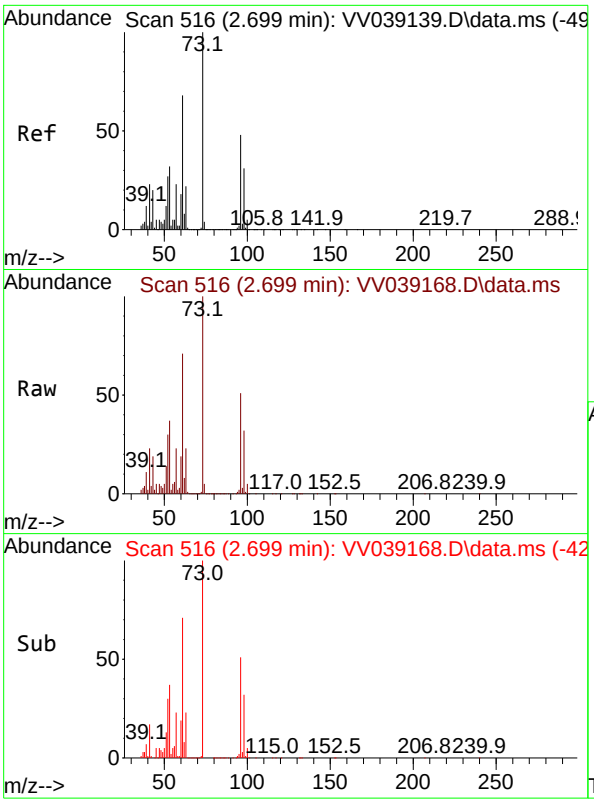




#20
Methylene Chloride
Concen: 50.438 ug/l
RT: 2.455 min Scan# 440
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 84 Resp: 477153

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 117.8 | 102.8 | 154.2 |
| 51 | 36.7 | 31.9 | 47.9 |
| 86 | 64.3 | 51.2 | 76.8 |



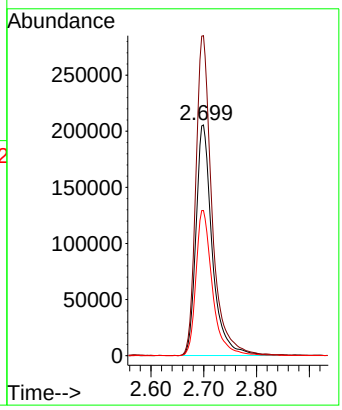


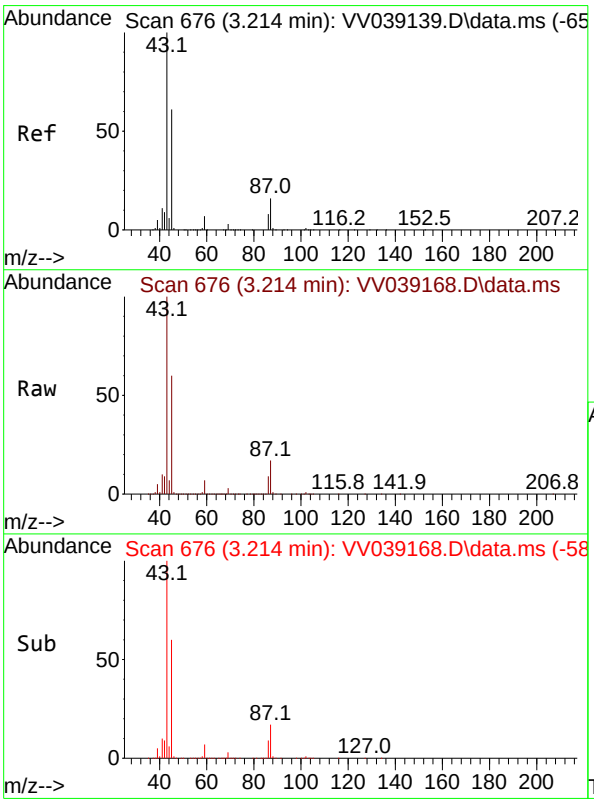

#21
trans-1,2-Dichloroethene
Concen: 45.131 ug/l
RT: 2.699 min Scan# 5
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 96 Resp: 438480

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 138.8 | 112.8 | 169.2 |
| 98 | 63.0 | 51.1 | 76.7 |

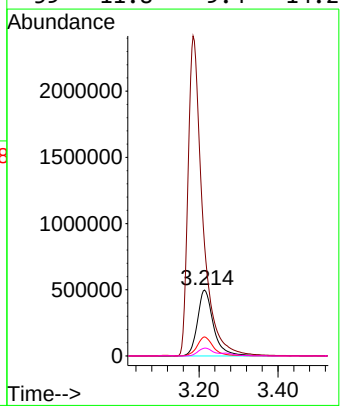


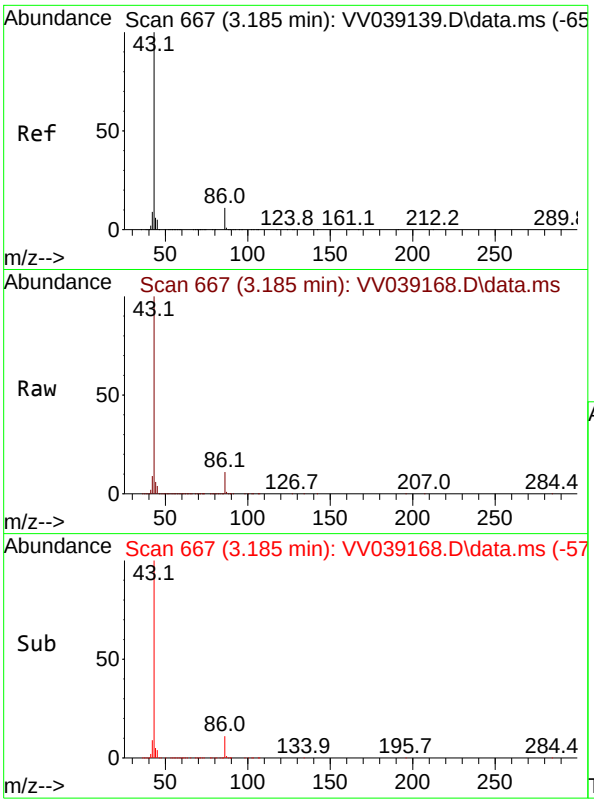




#22
Diisopropyl ether
Concen: 44.947 ug/l
RT: 3.214 min Scan# 676
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 45 Resp: 1401924

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 167.4 | 130.9 | 196.3 |
| 87 | 29.0 | 21.1 | 31.7 |
| 59 | 11.8 | 9.4 | 14.2 |



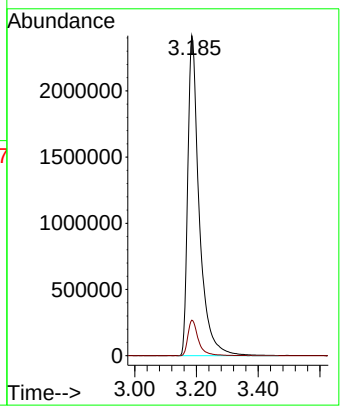


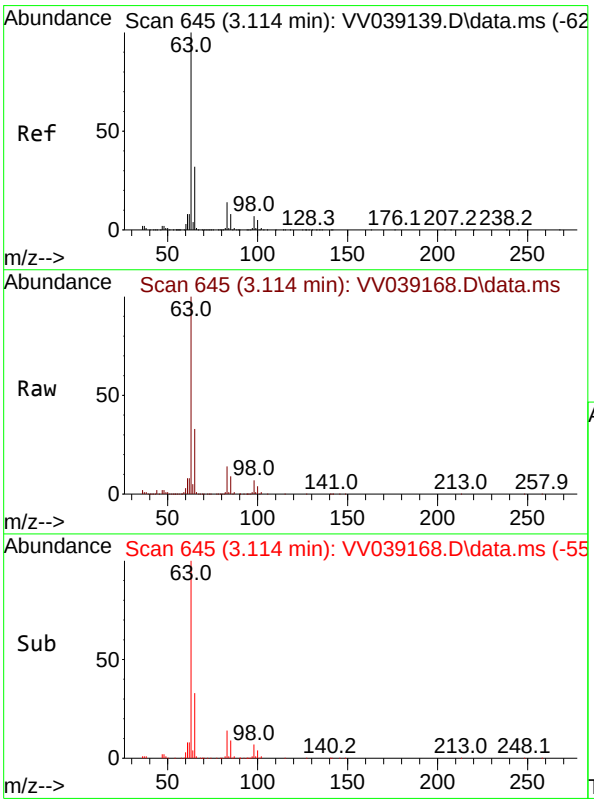

#23
Vinyl Acetate
Concen: 228.109 ug/l
RT: 3.185 min Scan# 6
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 6223966

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.1 | 8.4 | 12.6 |

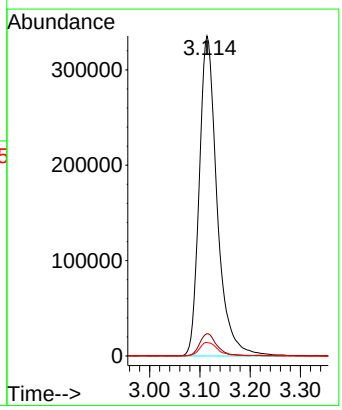


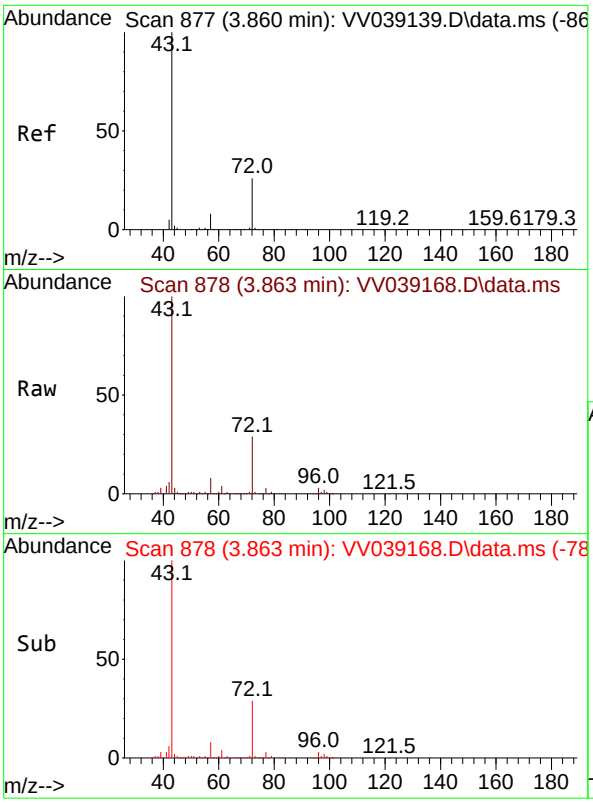




#24
1,1-Dichloroethane
Concen: 43.389 ug/l
RT: 3.114 min Scan# 645
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 63 Resp: 827604

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.9 | 3.4 | 10.2 |
| 100 | 4.2 | 2.2 | 6.6 |



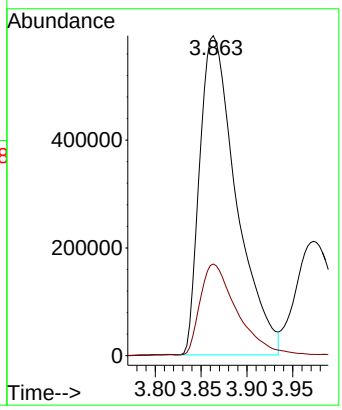


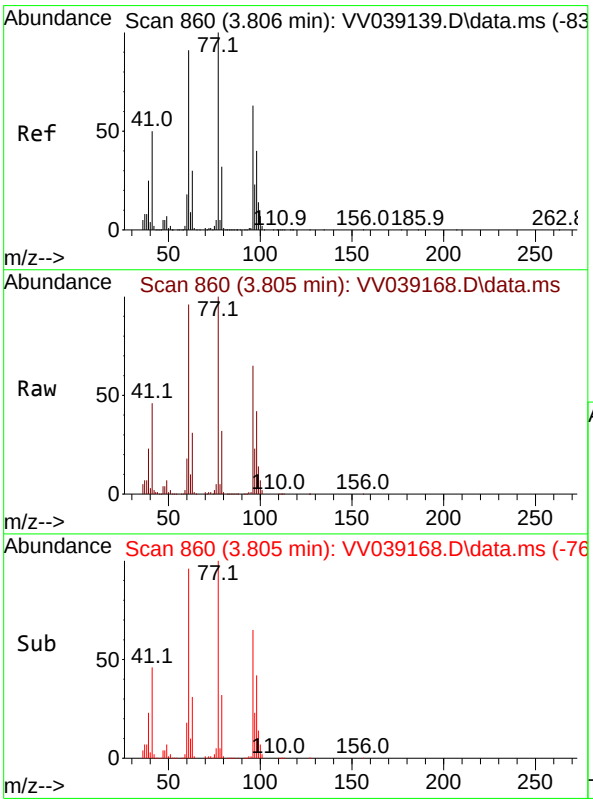

#25
2-Butanone
Concen: 234.849 ug/l
RT: 3.863 min Scan# 8
Delta R.T. 0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 1647490

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 28.4 | 21.0 | 31.6 |

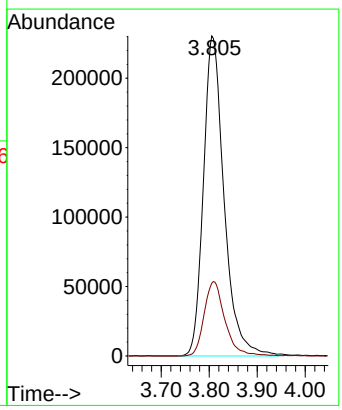


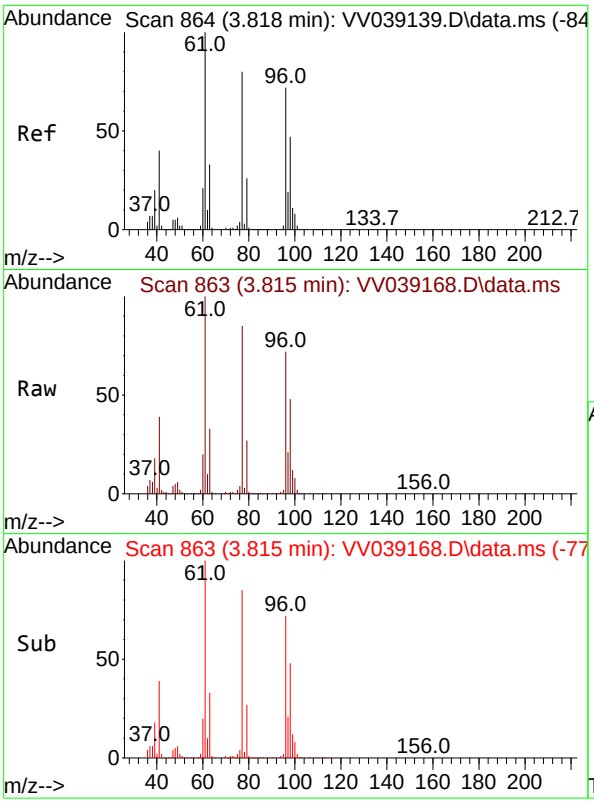




#26
2,2-Dichloropropane
Concen: 40.800 ug/l
RT: 3.805 min Scan# 860
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 77 Resp: 690029

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.3 | 11.6 | 34.7 |



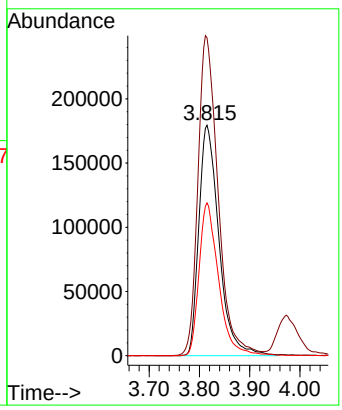


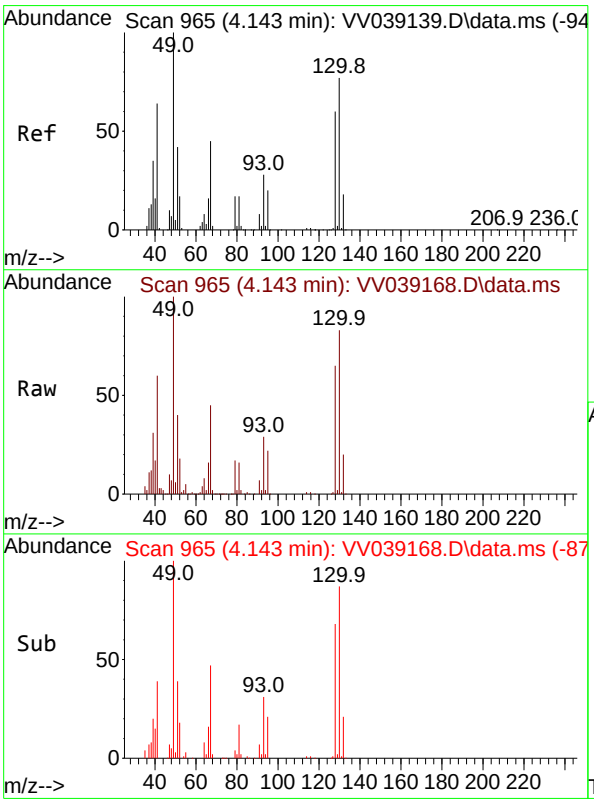

#27
cis-1,2-Dichloroethene
Concen: 46.579 ug/l
RT: 3.815 min Scan# 8
Delta R.T. -0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 96 Resp: 499109

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 139.3 | 0.0 | 286.4 |
| 98 | 64.0 | 0.0 | 126.6 |

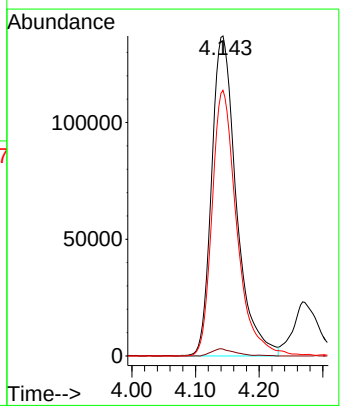


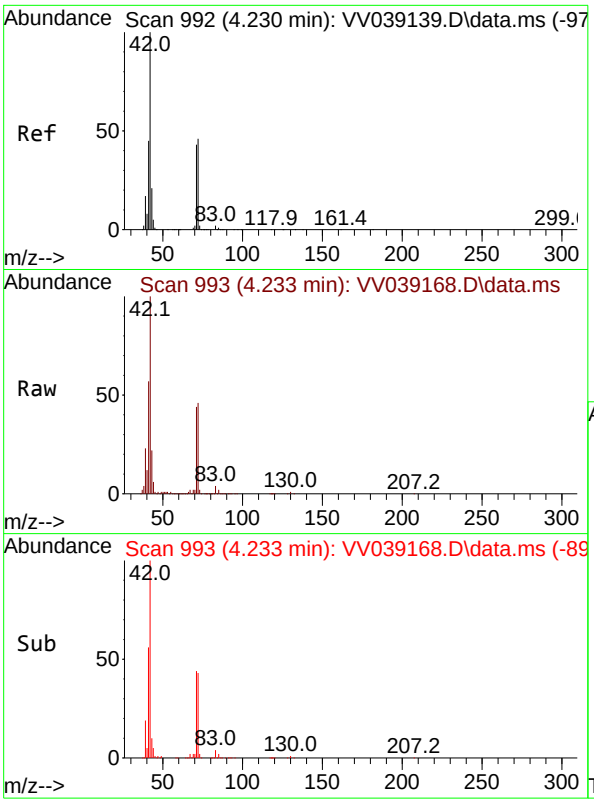




#28
Bromochloromethane
Concen: 44.019 ug/l
RT: 4.143 min Scan# 965
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 49 Resp: 370658

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.1 | 0.0 | 4.2 |
| 130 | 82.8 | 60.2 | 90.2 |



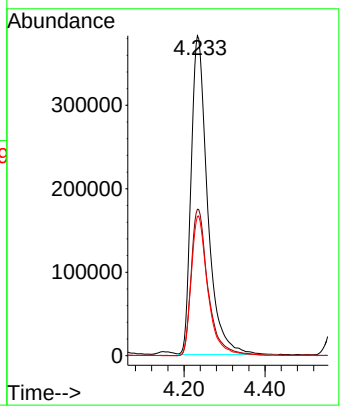


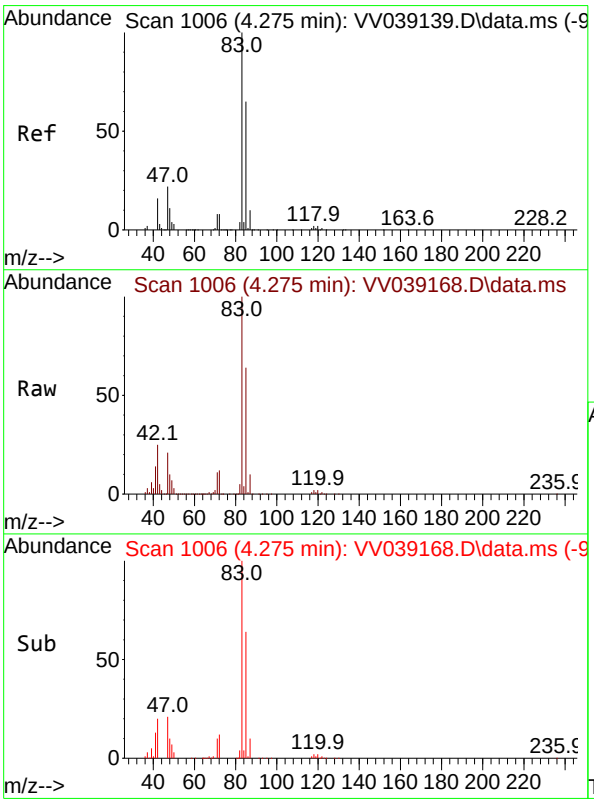

#29
Tetrahydrofuran
Concen: 244.856 ug/l
RT: 4.233 min Scan# 9
Delta R.T. 0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 42 Resp: 1075144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 47.4 | 36.3 | 54.5 |
| 71 | 44.4 | 34.3 | 51.5 |

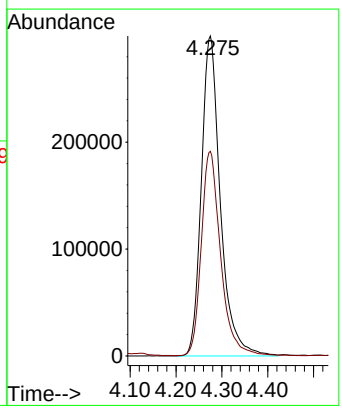


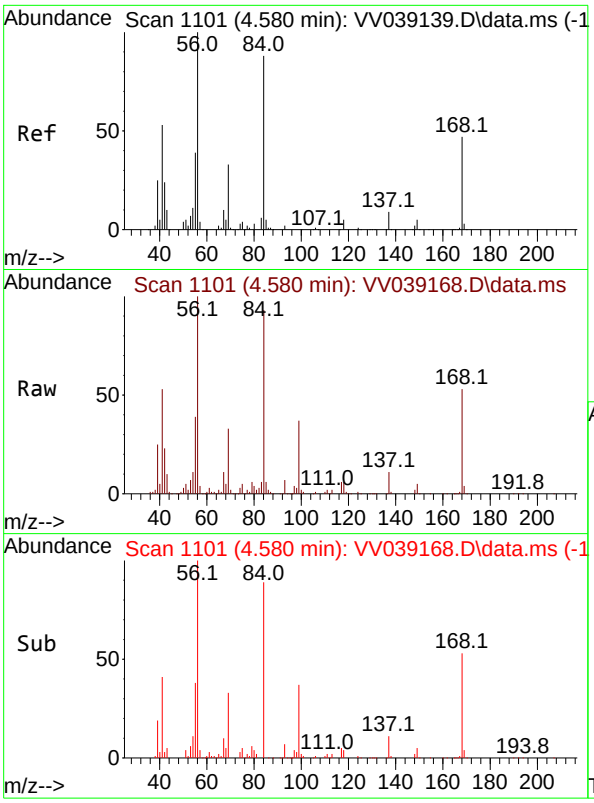




#30
Chloroform
Concen: 43.324 ug/l
RT: 4.275 min Scan# 1006
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 83 Resp: 862902

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.8 | 52.1 | 78.1 |



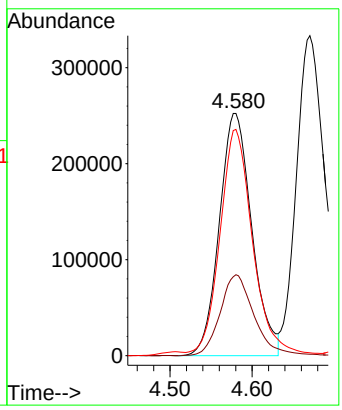


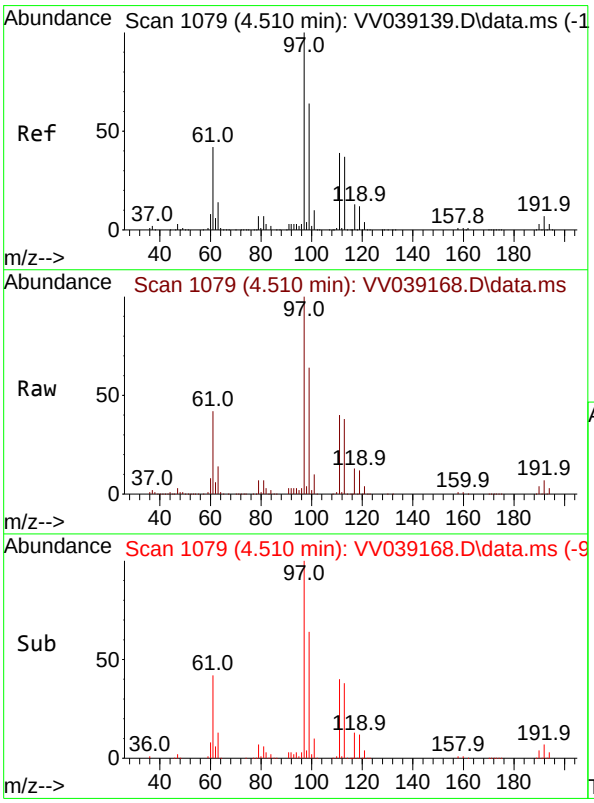

#31
Cyclohexane
Concen: 44.432 ug/l
RT: 4.580 min Scan# 11
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 56 Resp: 694256

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 33.4 | 26.2 | 39.2 |
| 84 | 91.8 | 70.3 | 105.5 |

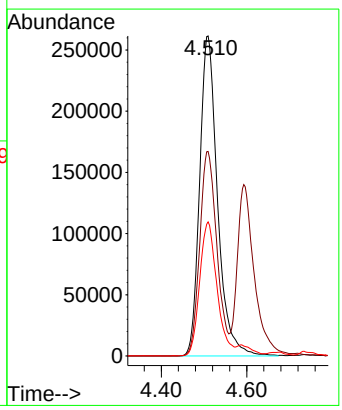


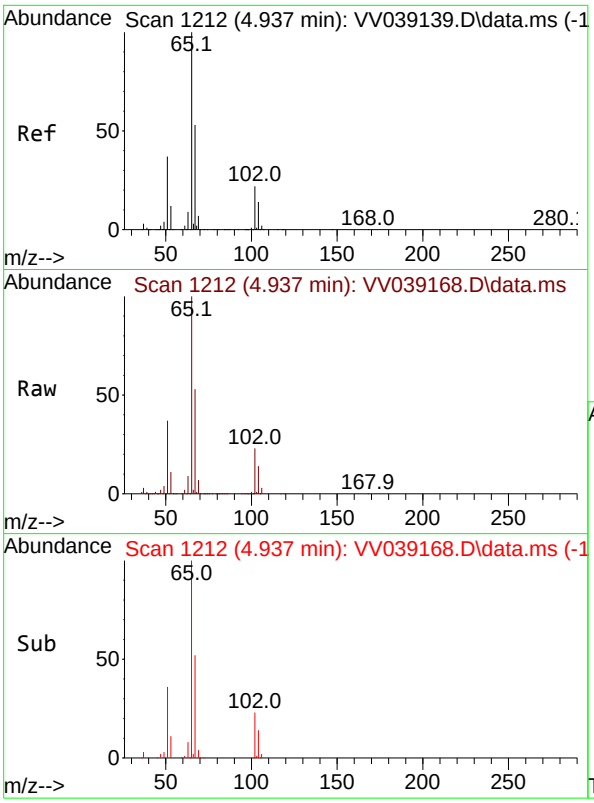




#32
1,1,1-Trichloroethane
Concen: 44.071 ug/l
RT: 4.510 min Scan# 1079
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 97 Resp: 759916

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 61.0 | 49.6 | 74.4 |
| 61 | 40.6 | 34.5 | 51.7 |



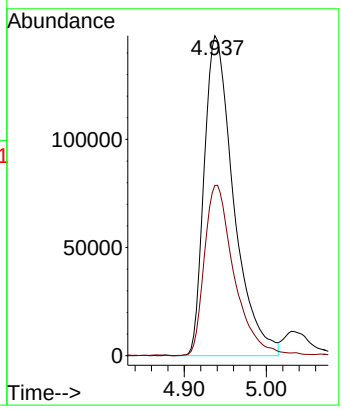


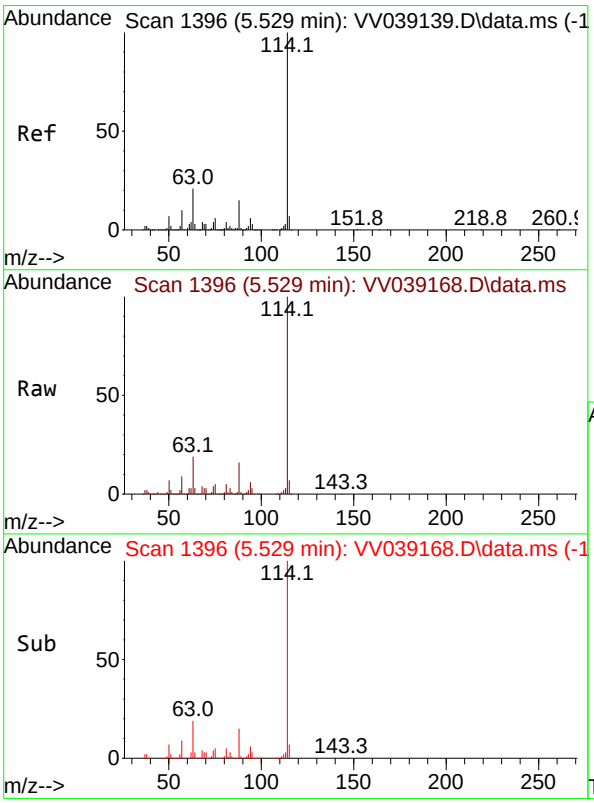

#33
1,2-Dichloroethane-d4
Concen: 42.102 ug/l
RT: 4.937 min Scan# 1
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 65 Resp: 368829

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.7 | 0.0 | 107.0 |

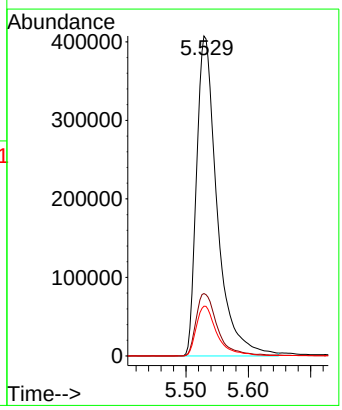


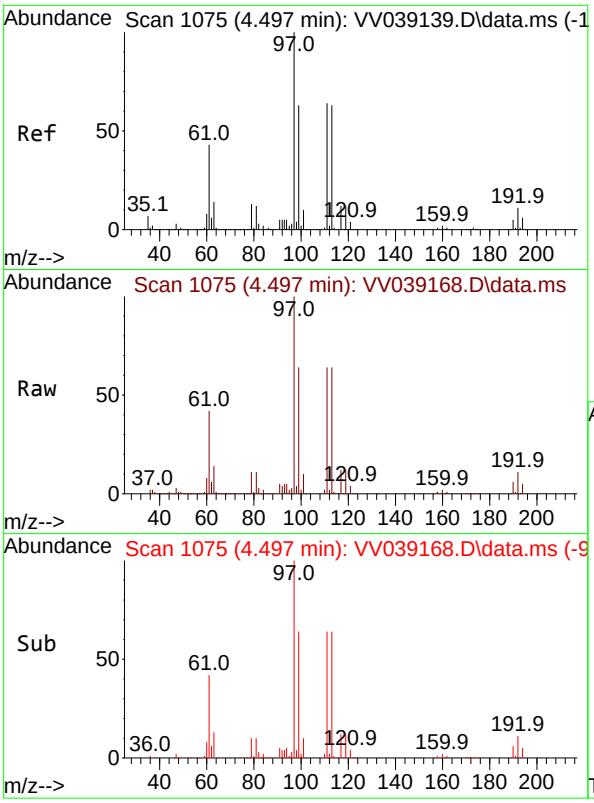




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.529 min Scan# 1396
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion:114 Resp: 933338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.4 | 0.0 | 42.6 |
| 88 | 15.5 | 0.0 | 30.8 |



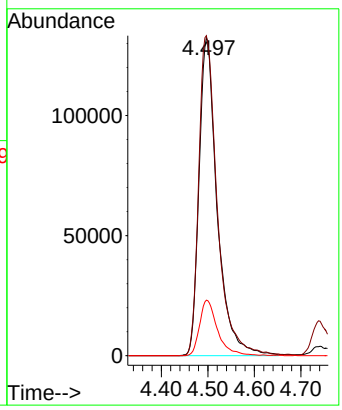


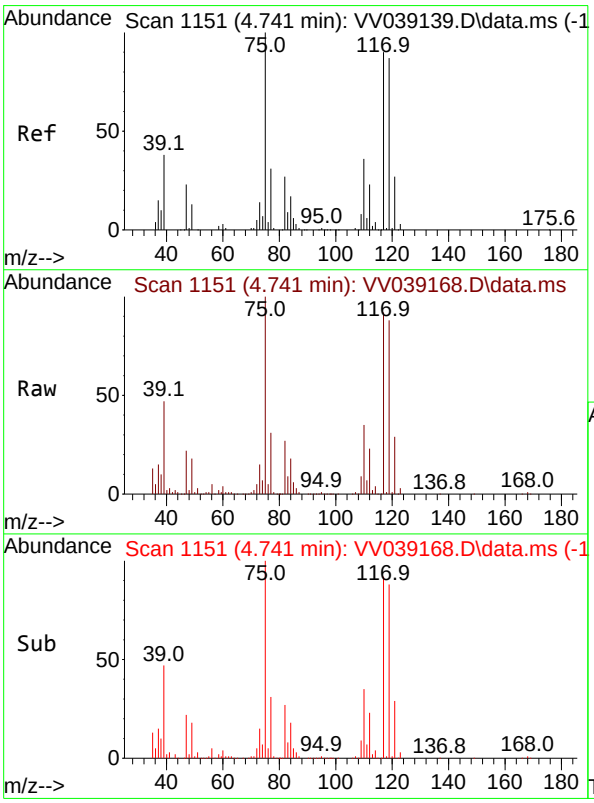

#35
Dibromofluoromethane
Concen: 47.826 ug/l
RT: 4.497 min Scan# 1
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:113 Resp: 358851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.1 | 82.4 | 123.6 |
| 192 | 17.3 | 13.8 | 20.8 |

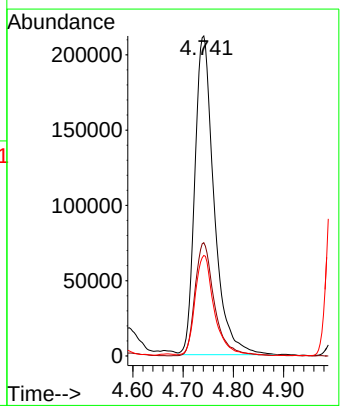


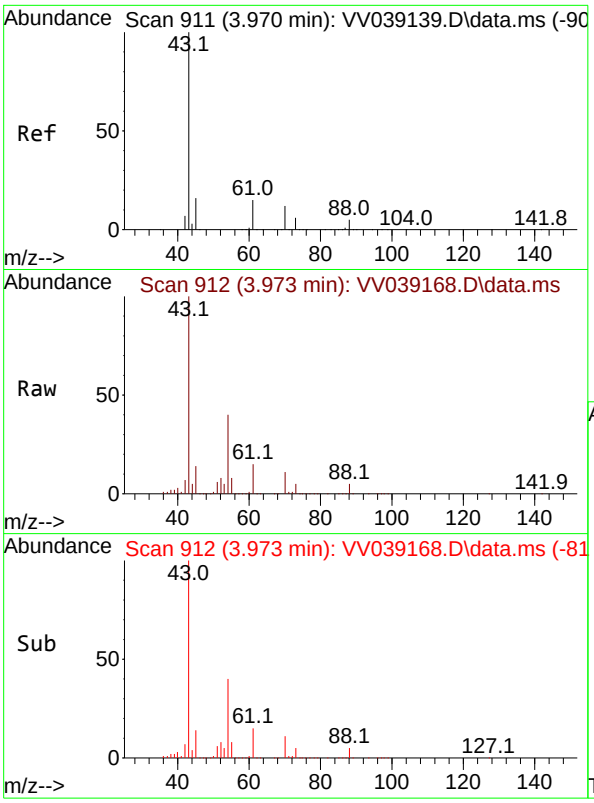




#36
1,1-Dichloropropene
Concen: 49.586 ug/l
RT: 4.741 min Scan# 1151
Delta R.T. 0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 75 Resp: 562517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.7 | 18.1 | 54.1 |
| 77 | 31.4 | 24.8 | 37.2 |



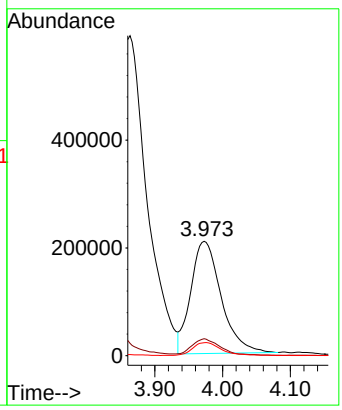


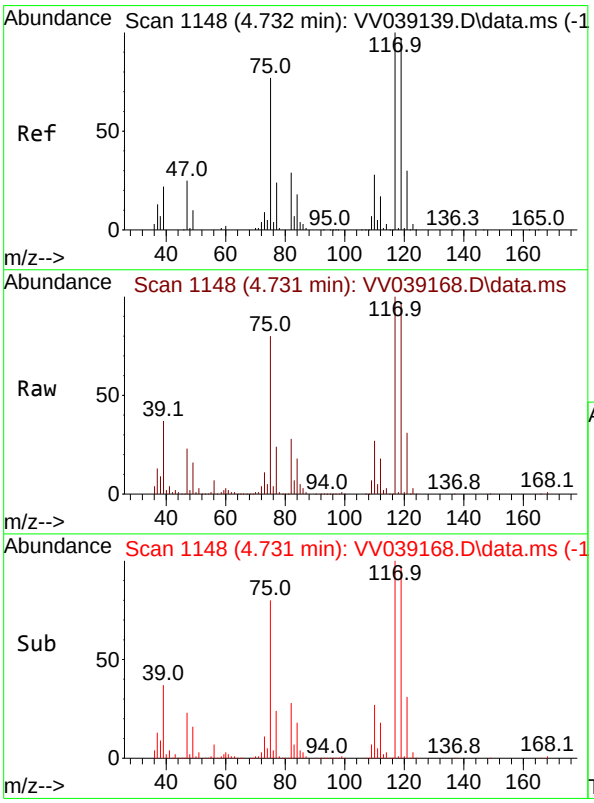

#37
Ethyl Acetate
Concen: 47.290 ug/l
RT: 3.973 min Scan# 91
Delta R.T. 0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 650966

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.8 | 10.3 | 15.5 |
| 70 | 10.7 | 8.0 | 12.0 |

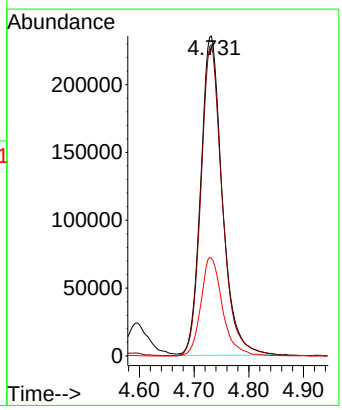


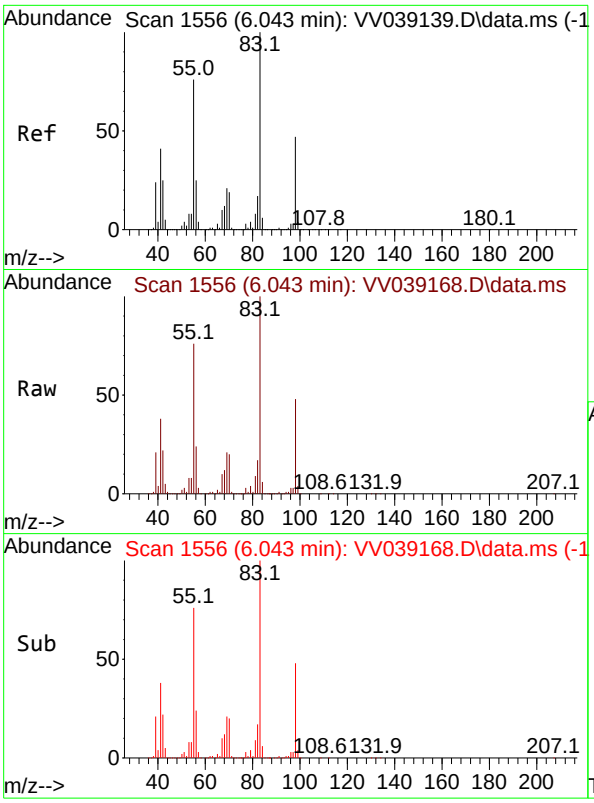




#38
Carbon Tetrachloride
Concen: 46.350 ug/l
RT: 4.731 min Scan# 1148
Delta R.T. -0.001 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion:117 Resp: 642615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 97.3 | 77.2 | 115.8 |
| 121 | 30.6 | 24.2 | 36.2 |



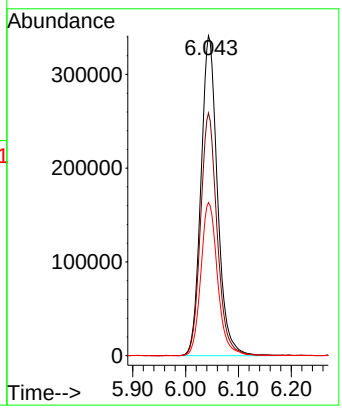


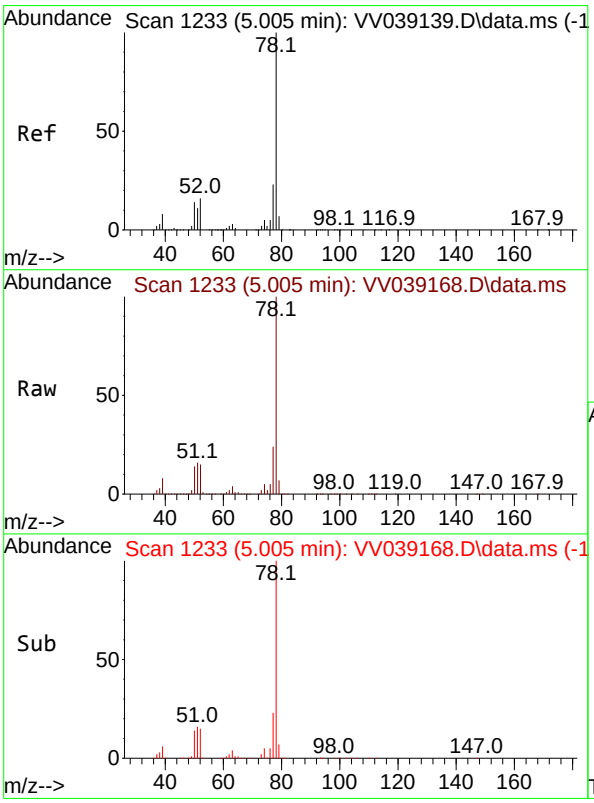

#39
Methylcyclohexane
Concen: 54.277 ug/l
RT: 6.043 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 83 Resp: 743575

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 75.8 | 60.5 | 90.7 |
| 98 | 47.9 | 37.8 | 56.6 |

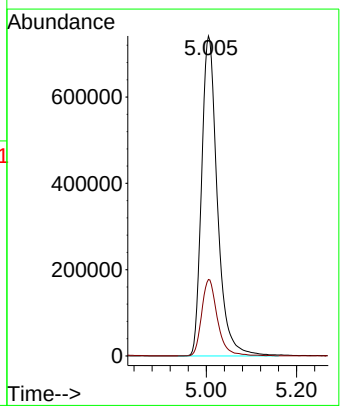


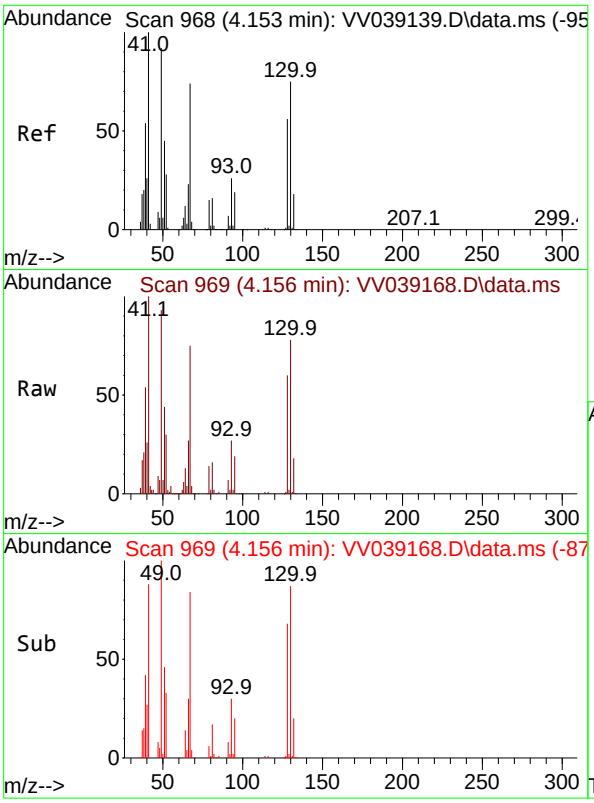




#40
Benzene
Concen: 48.671 ug/l
RT: 5.005 min Scan# 1233
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 78 Resp: 1797939

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.9 | 18.7 | 28.1 |



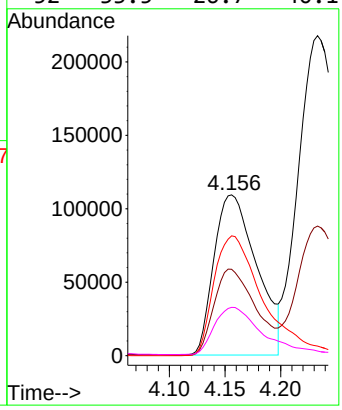


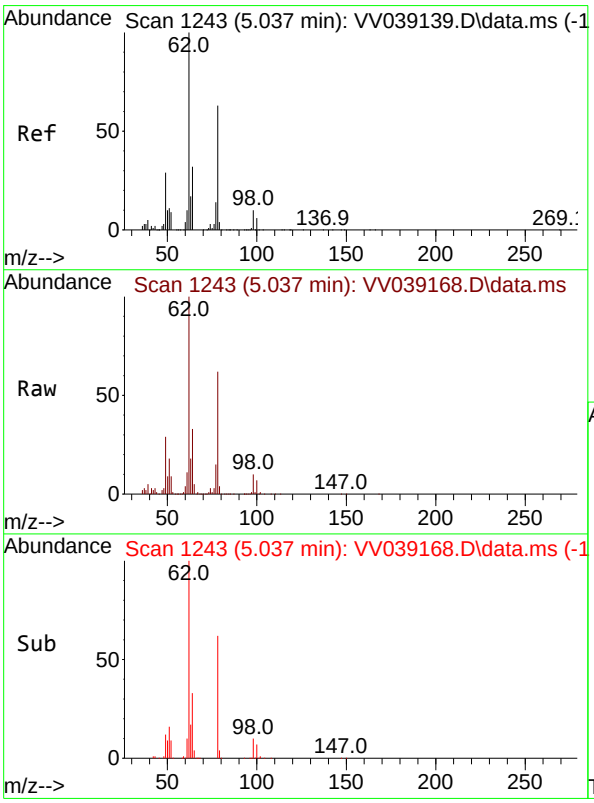

#41
Methacrylonitrile
Concen: 47.017 ug/l
RT: 4.156 min Scan# 9
Delta R.T. 0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 41 Resp: 291884

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 51.3 | 42.2 | 63.2 |
| 67 | 87.7 | 67.9 | 101.9 |
| 52 | 33.5 | 26.7 | 40.1 |

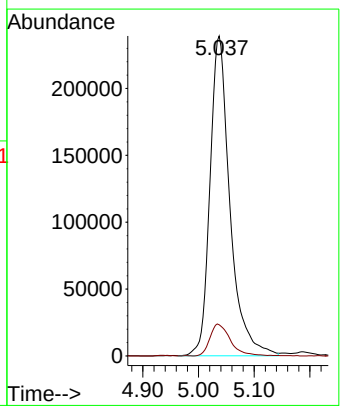


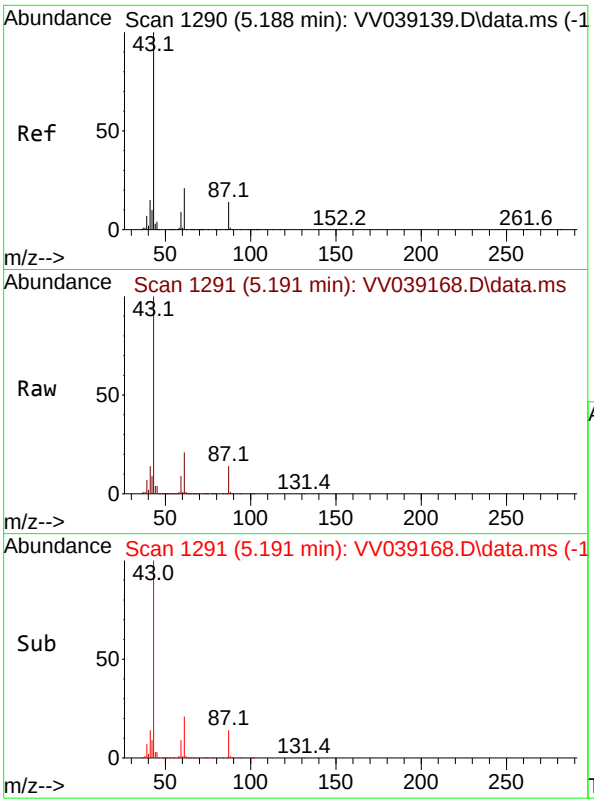




#42
1,2-Dichloroethane
Concen: 46.050 ug/l
RT: 5.037 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 62 Resp: 596048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.3 | 0.0 | 19.2 |



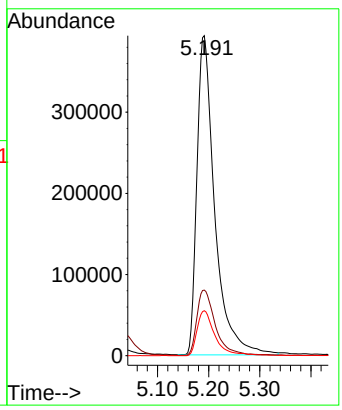


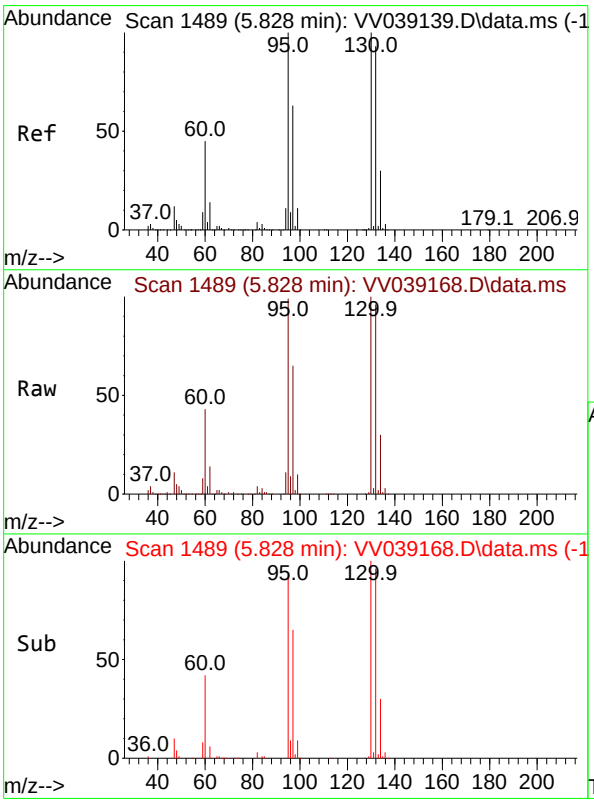

#43
Isopropyl Acetate
Concen: 50.848 ug/l
RT: 5.191 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 954350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 21.0 | 15.9 | 23.9 |
| 87 | 14.3 | 11.0 | 16.6 |

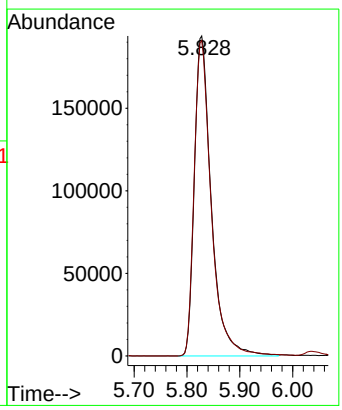


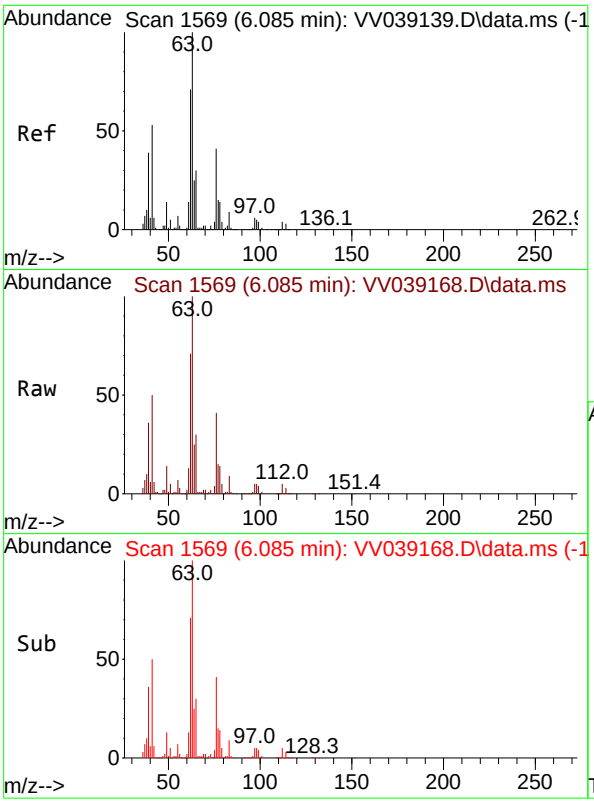




#44
Trichloroethene
Concen: 50.680 ug/l
RT: 5.828 min Scan# 1489
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion:130 Resp: 432014

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 98.5 | 0.0 | 199.2 |



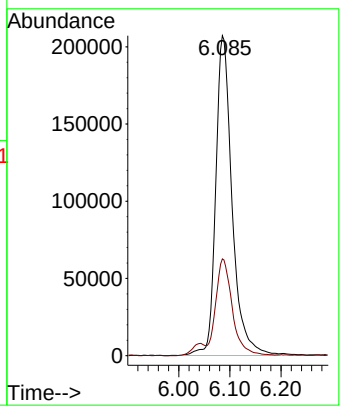


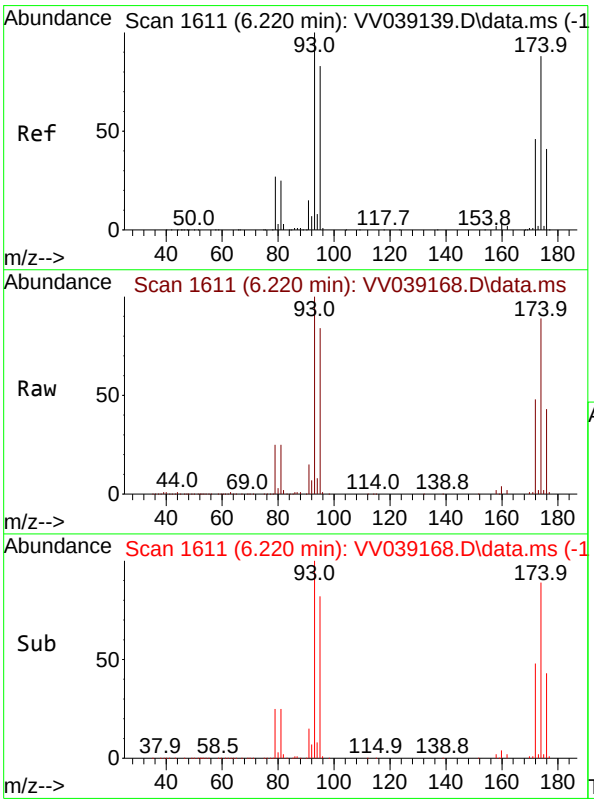

#45
1,2-Dichloropropane
Concen: 50.088 ug/l
RT: 6.085 min Scan# 1
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 63 Resp: 459902

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.3 | 23.7 | 35.5 |

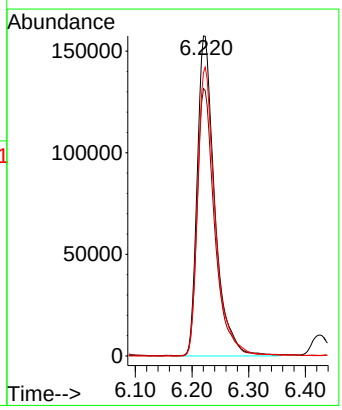


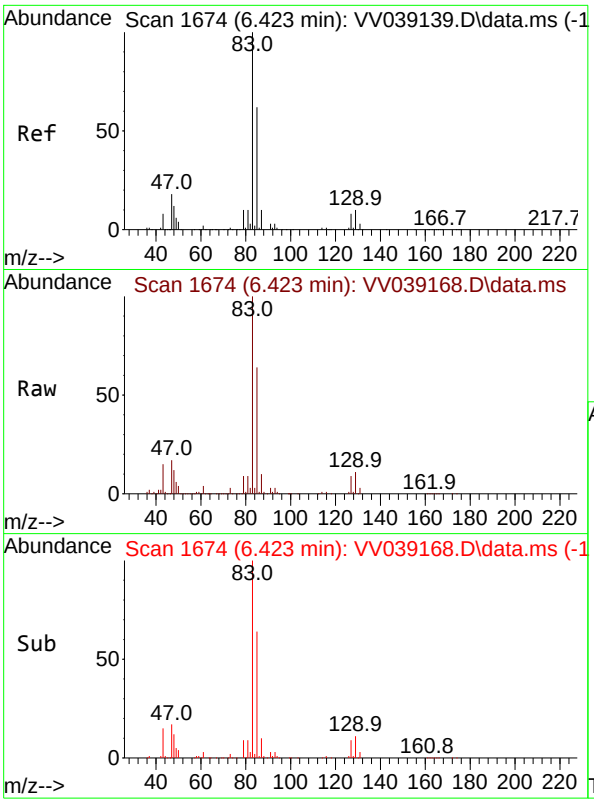




#46
Dibromomethane
Concen: 48.059 ug/l
RT: 6.220 min Scan# 1611
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 93 Resp: 337738

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.8 | 65.5 | 98.3 |
| 174 | 90.5 | 69.0 | 103.4 |



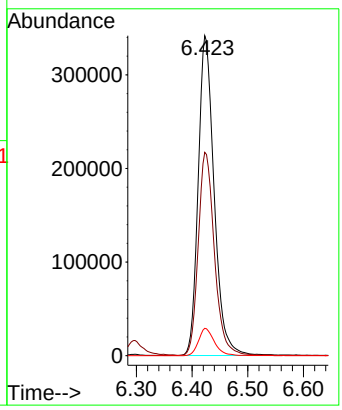


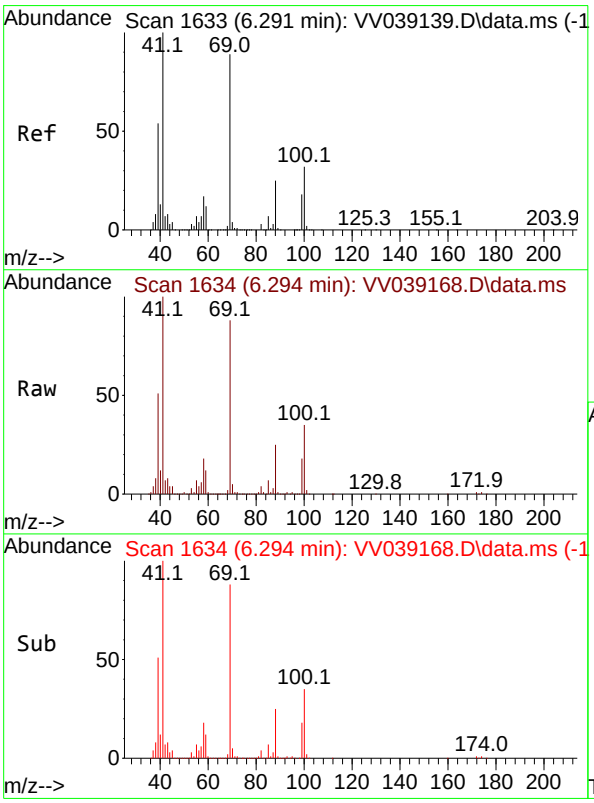

#47
Bromodichloromethane
Concen: 46.843 ug/l
RT: 6.423 min Scan# 1
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 83 Resp: 680557

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.5 | 49.7 | 74.5 |
| 127 | 8.6 | 6.6 | 9.8 |

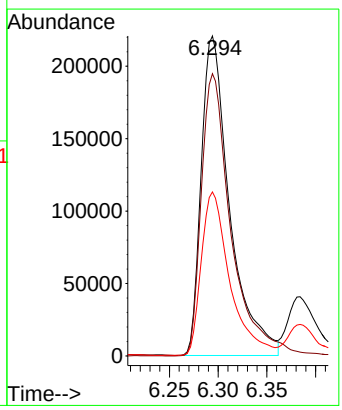


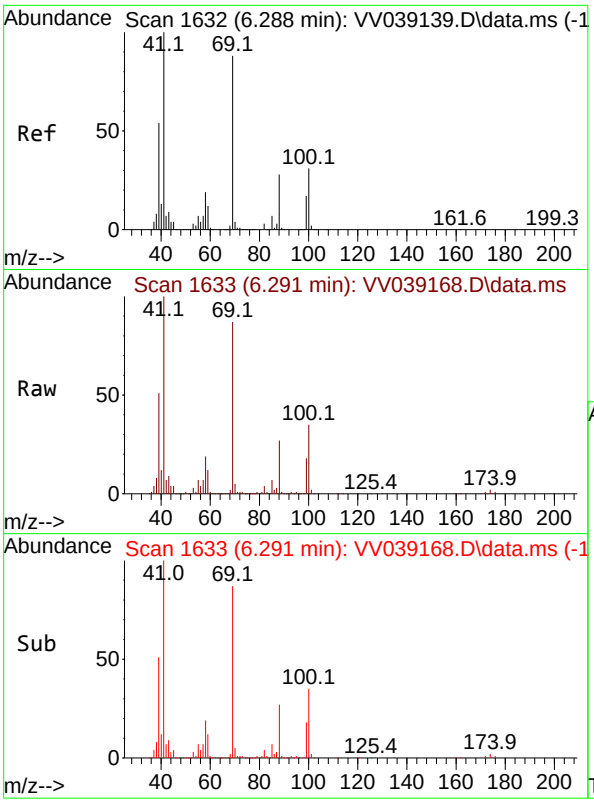




#48
Methyl methacrylate
Concen: 52.825 ug/l
RT: 6.294 min Scan# 1634
Delta R.T. 0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 41 Resp: 449431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 92.6 | 72.4 | 108.6 |
| 39 | 51.0 | 42.5 | 63.7 |



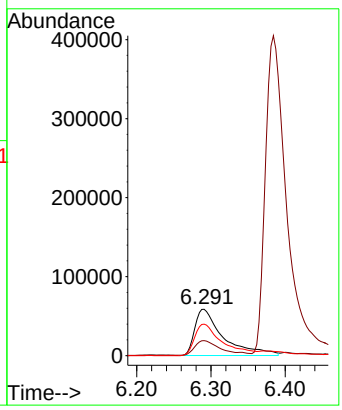


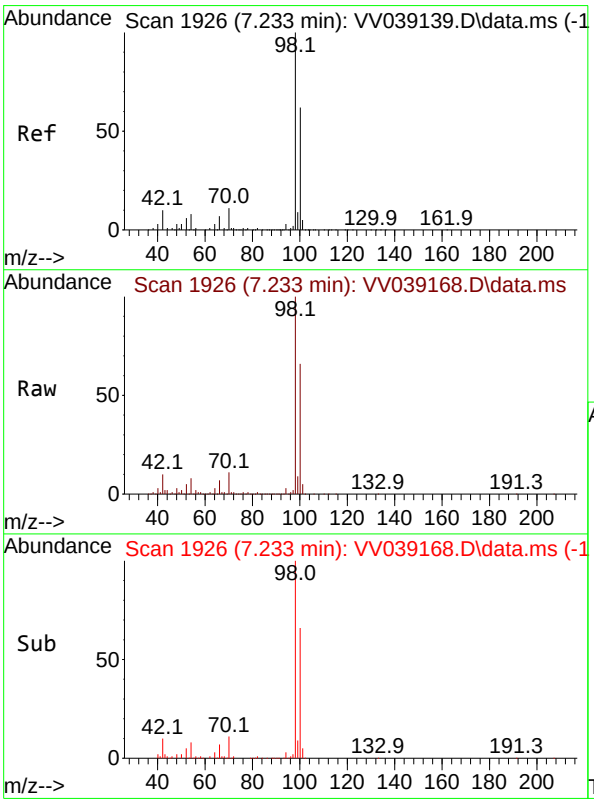

#49
1,4-Dioxane
Concen: 1135.751 ug/l
RT: 6.291 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 88 Resp: 155938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 27.0 | 25.1 | 37.7 |
| 58 | 66.4 | 53.6 | 80.4 |

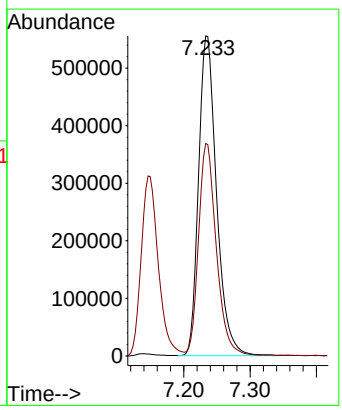


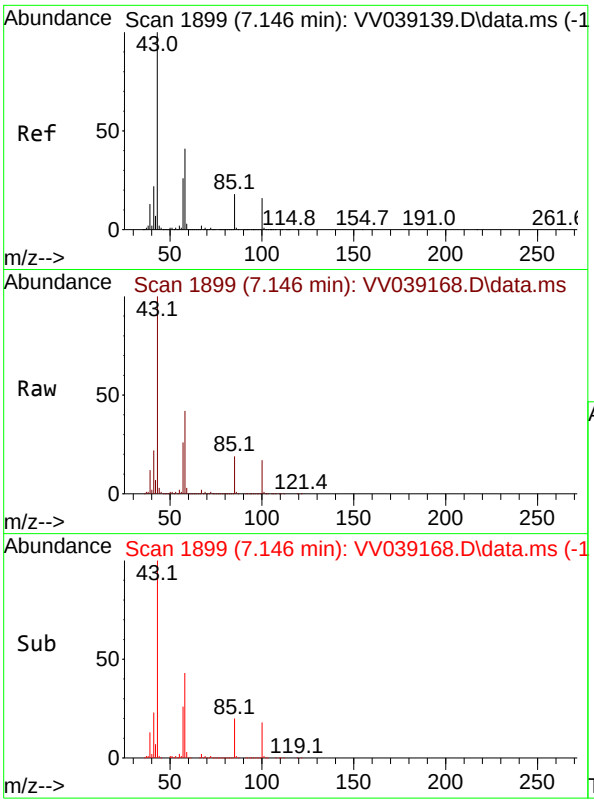




#50
Toluene-d8
Concen: 47.485 ug/l
RT: 7.233 min Scan# 1926
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 98 Resp: 1046447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.4 | 52.2 | 78.2 |



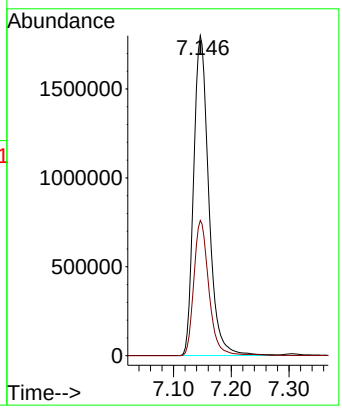


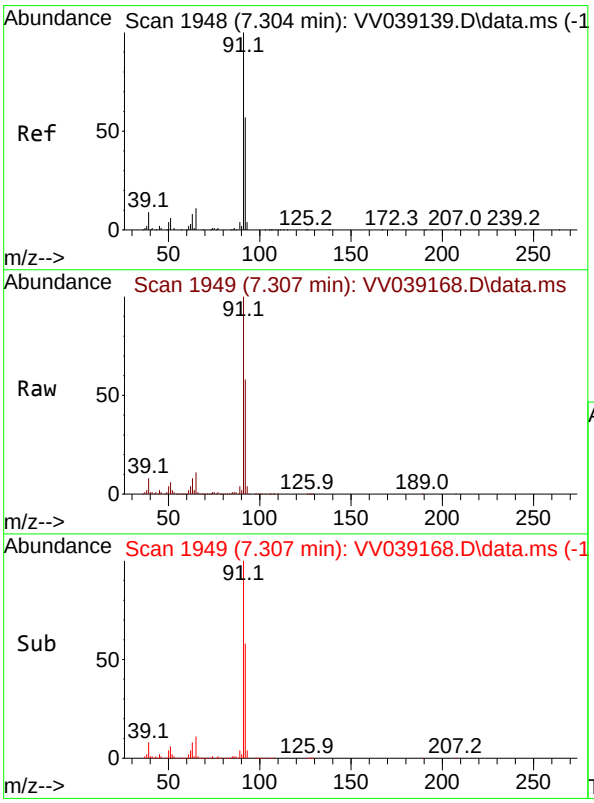

#51
4-Methyl-2-Pentanone
Concen: 265.177 ug/l
RT: 7.146 min Scan# 1
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 3274291

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 41.6 | 32.3 | 48.5 |

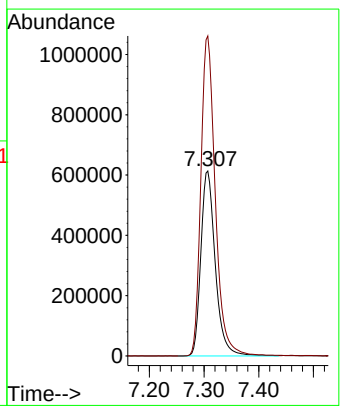


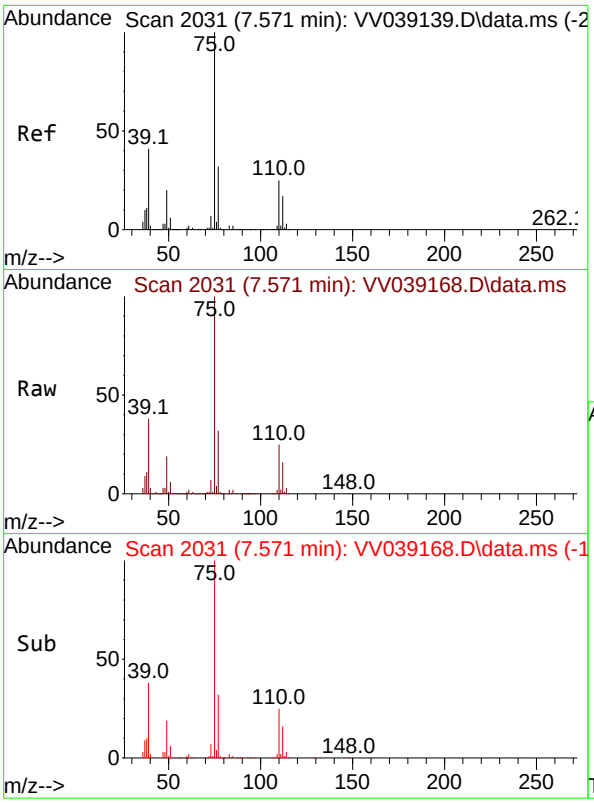




#52
Toluene
Concen: 52.474 ug/l
RT: 7.307 min Scan# 1949
Delta R.T. 0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 92 Resp: 1123906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 173.1 | 139.2 | 208.8 |



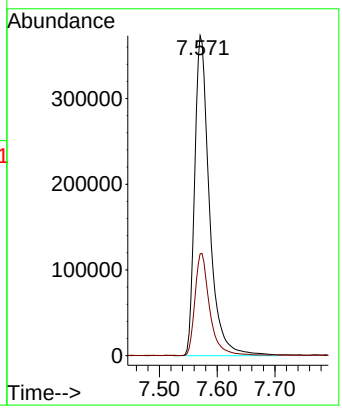


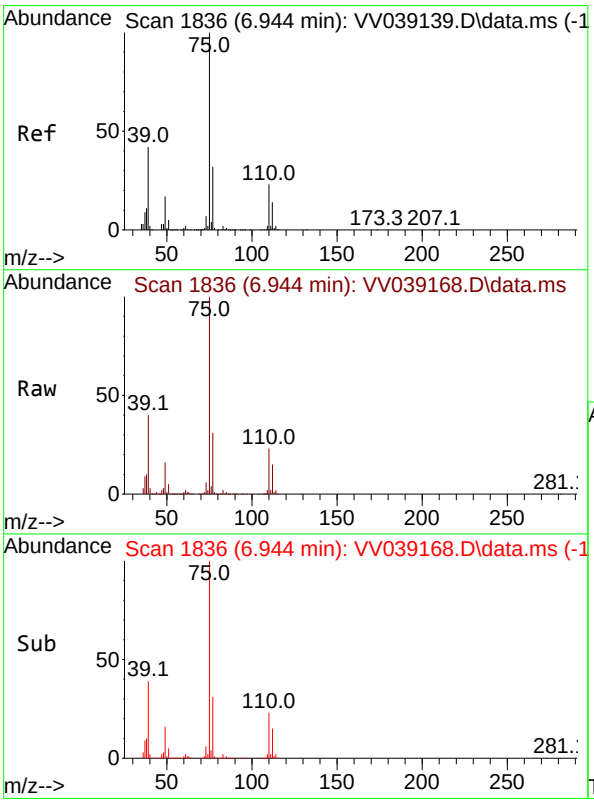

#53
t-1,3-Dichloropropene
Concen: 52.243 ug/l
RT: 7.571 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 75 Resp: 661472

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.8 | 25.9 | 38.9 |

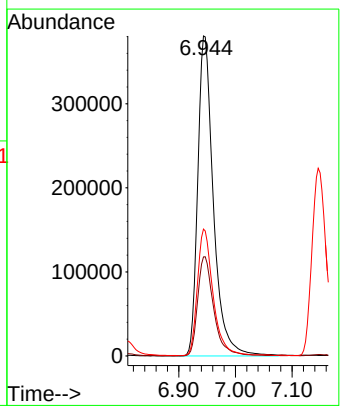


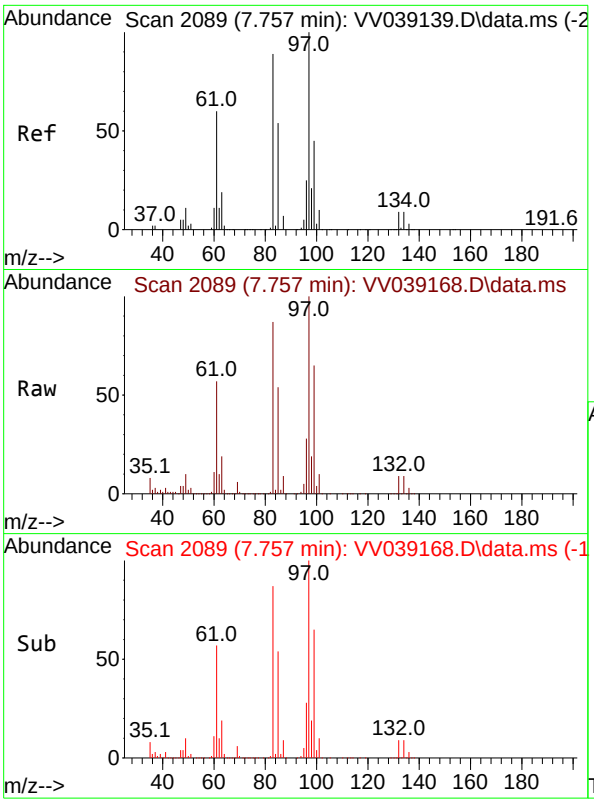




#54
cis-1,3-Dichloropropene
Concen: 52.312 ug/l
RT: 6.944 min Scan# 1836
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 75 Resp: 731190

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.8 | 25.5 | 38.3 |
| 39 | 39.6 | 33.8 | 50.6 |



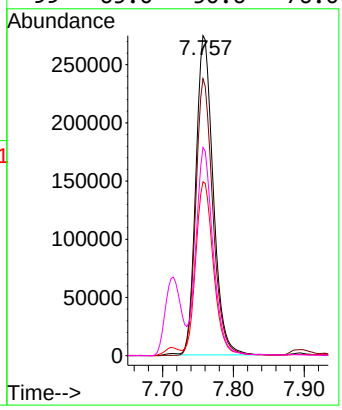


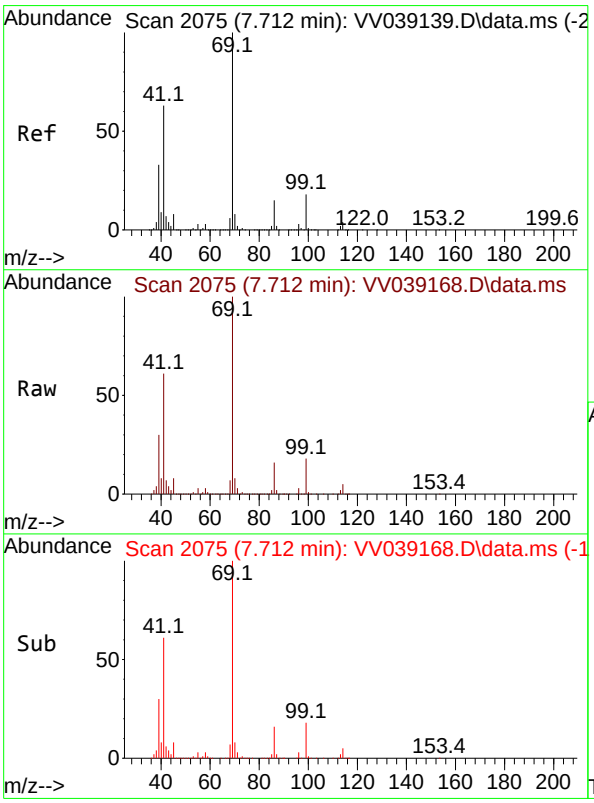

#55
1,1,2-Trichloroethane
Concen: 48.443 ug/l
RT: 7.757 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 97 Resp: 465236

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 86.6 | 71.1 | 106.7 |
| 85 | 54.3 | 44.6 | 67.0 |
| 99 | 65.0 | 50.6 | 76.0 |

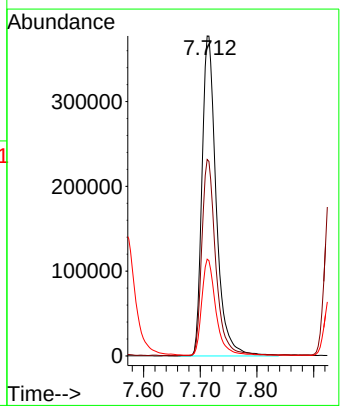


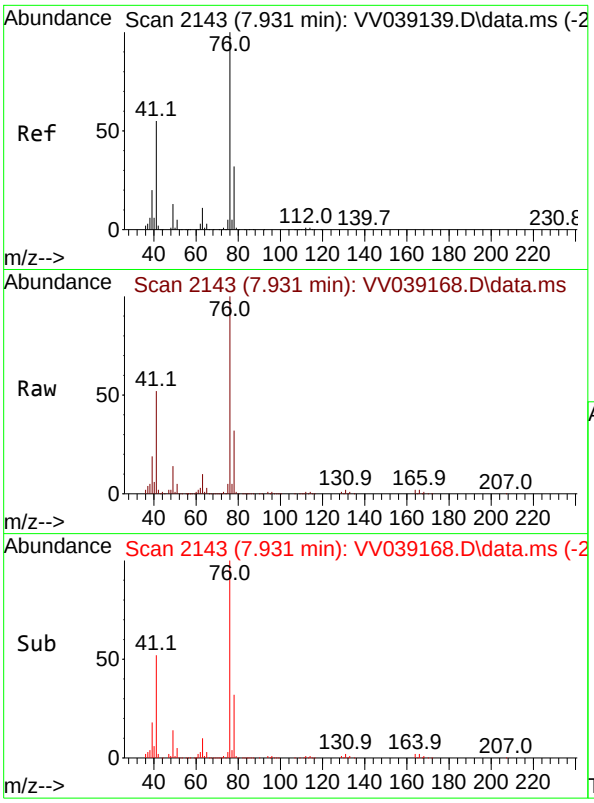




#56
Ethyl methacrylate
Concen: 57.707 ug/l
RT: 7.712 min Scan# 2075
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 69 Resp: 658147

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 59.9 | 50.7 | 76.1 |
| 39 | 29.6 | 26.0 | 39.0 |



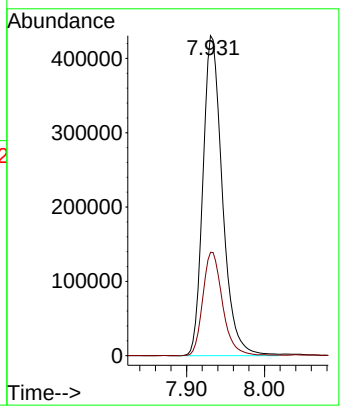


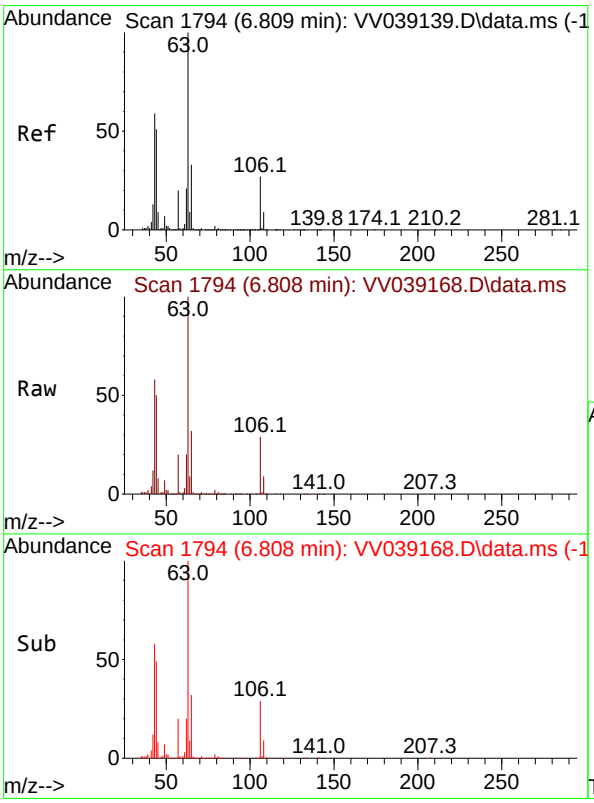

#57
1,3-Dichloropropane
Concen: 49.373 ug/l
RT: 7.931 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 76 Resp: 748312

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.7 | 26.1 | 39.1 |

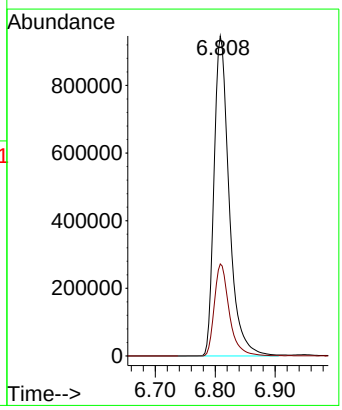


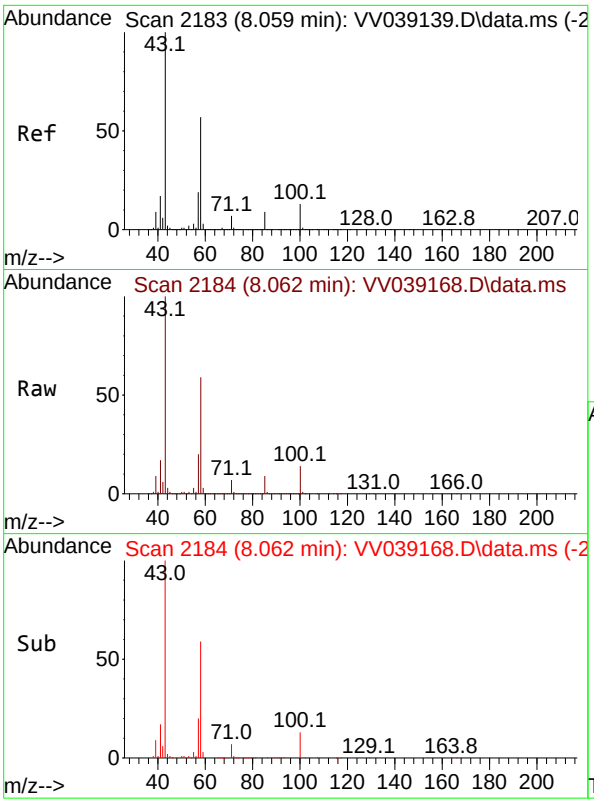




#58
2-Chloroethyl Vinyl ether
Concen: 257.039 ug/l
RT: 6.808 min Scan# 1794
Delta R.T. -0.001 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 63 Resp: 1657102

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 28.3 | 22.1 | 33.1 |



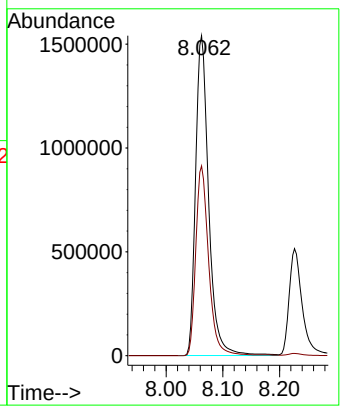


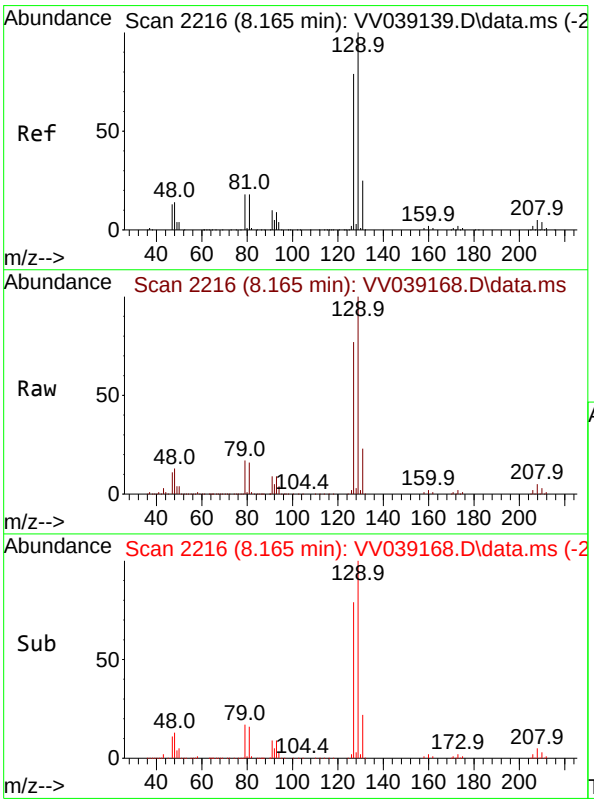

#59
2-Hexanone
Concen: 247.438 ug/l
RT: 8.062 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 2465950

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 58.6 | 28.3 | 85.0 |

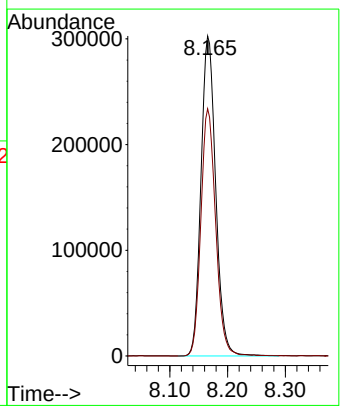


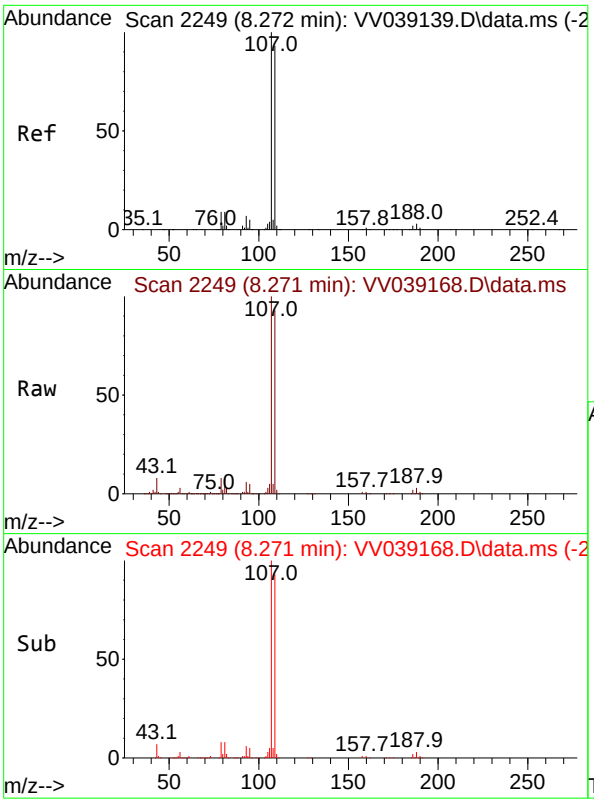




#60
Dibromochloromethane
Concen: 48.938 ug/l
RT: 8.165 min Scan# 2216
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion:129 Resp: 535532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.6 | 39.3 | 117.9 |



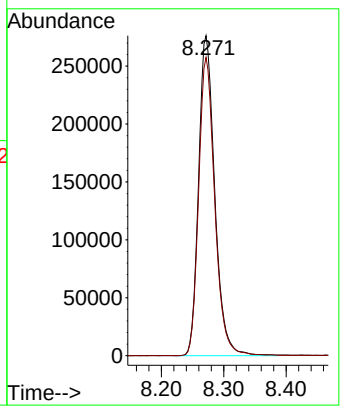


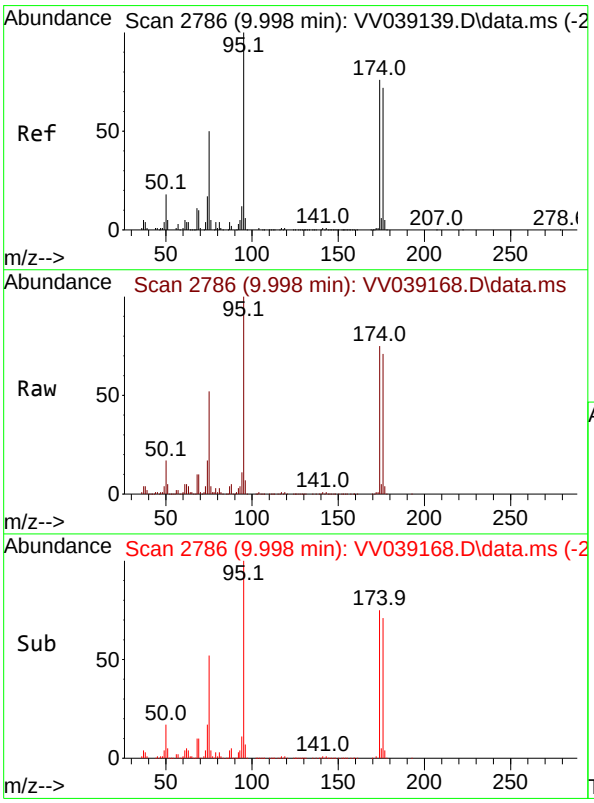

#61
1,2-Dibromoethane
Concen: 50.719 ug/l
RT: 8.271 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:107 Resp: 498142

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.0 | 74.6 | 112.0 |

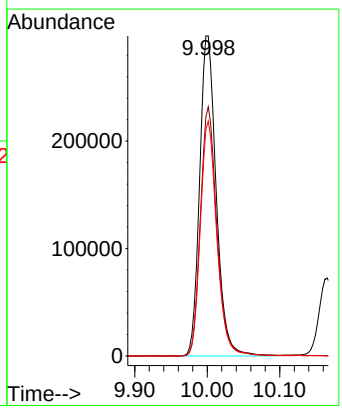


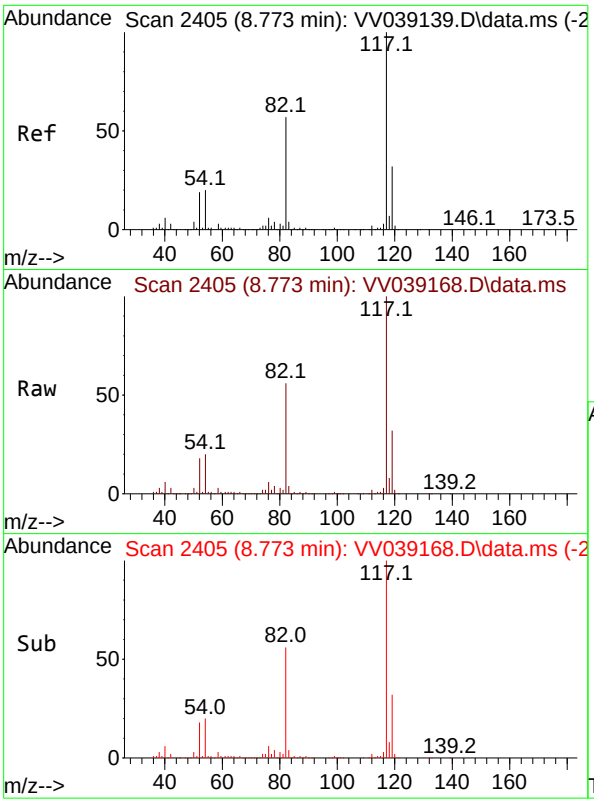




#62
4-Bromofluorobenzene
Concen: 52.218 ug/l
RT: 9.998 min Scan# 2786
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 95 Resp: 473731

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 77.3 | 0.0 | 150.4 |
| 176 | 72.7 | 0.0 | 144.2 |



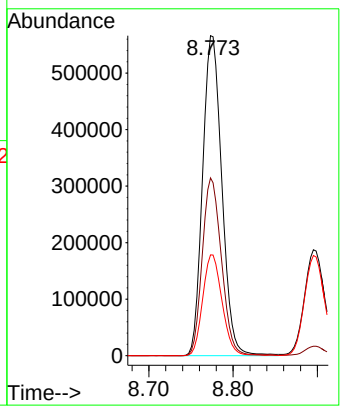


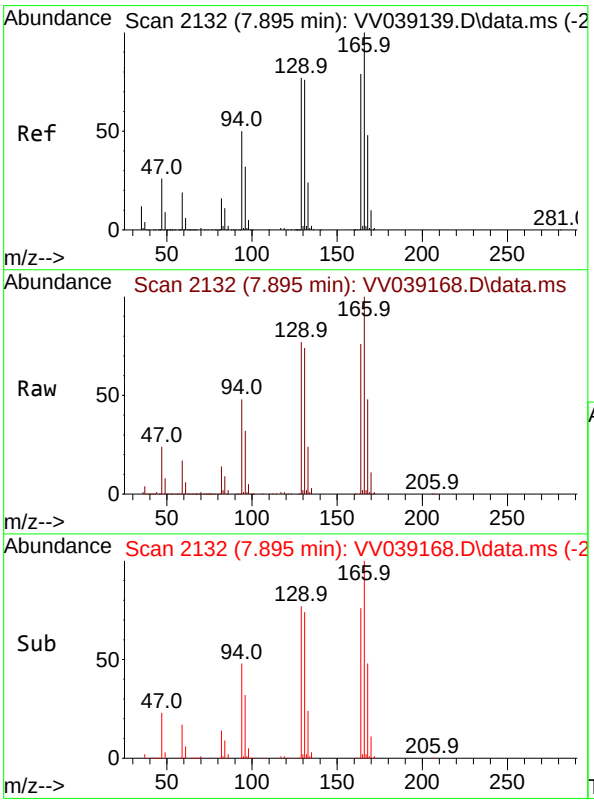

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.773 min Scan# 24
Delta R.T. 0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:117 Resp: 901987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 55.5 | 45.4 | 68.2 |
| 119 | 31.5 | 25.6 | 38.4 |

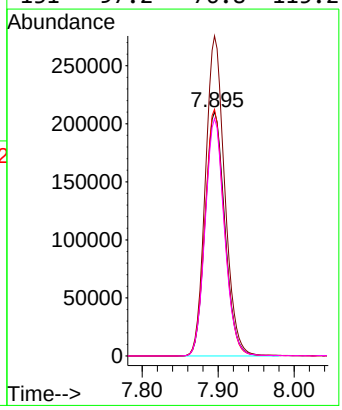


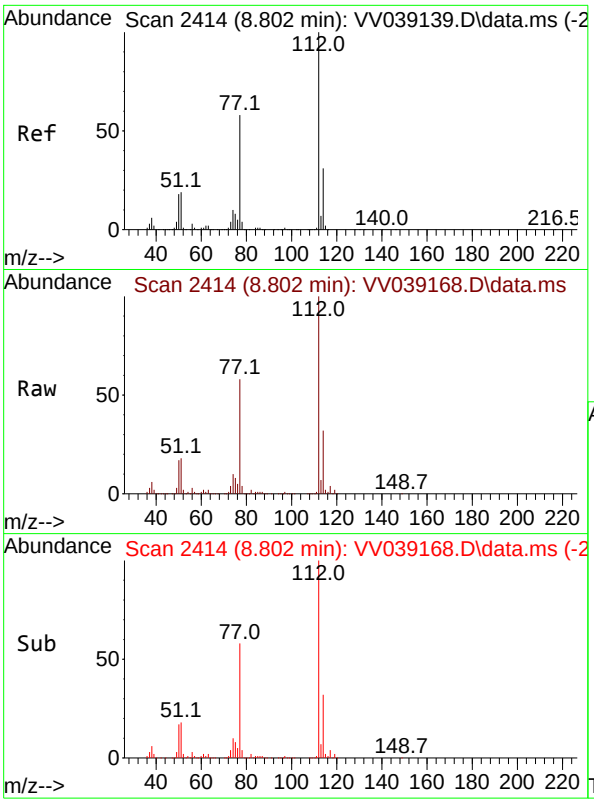




#64
Tetrachloroethene
Concen: 49.857 ug/l
RT: 7.895 min Scan# 2132
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion:164 Resp: 376666

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 131.1 | 101.6 | 152.4 |
| 129 | 101.0 | 78.5 | 117.7 |
| 131 | 97.2 | 76.8 | 115.2 |



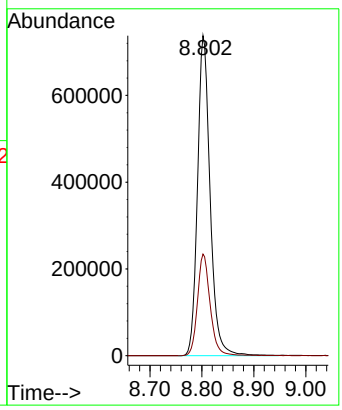


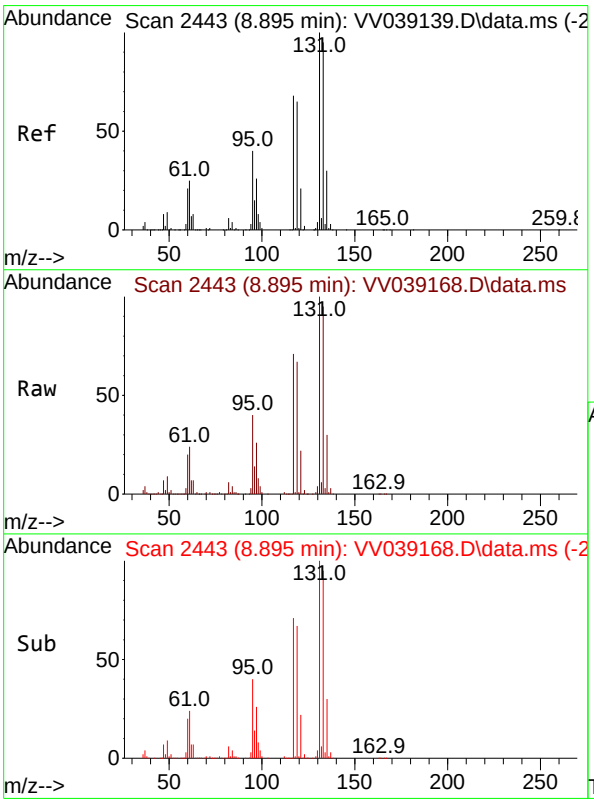

#65
Chlorobenzene
Concen: 49.450 ug/l
RT: 8.802 min Scan# 24
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:112 Resp: 1242390

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.8 | 24.6 | 37.0 |

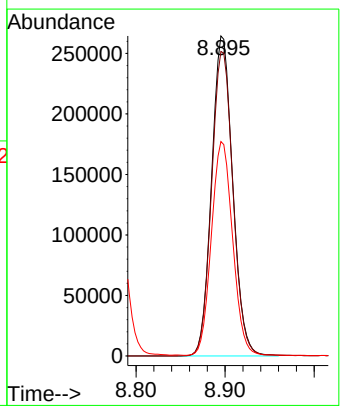


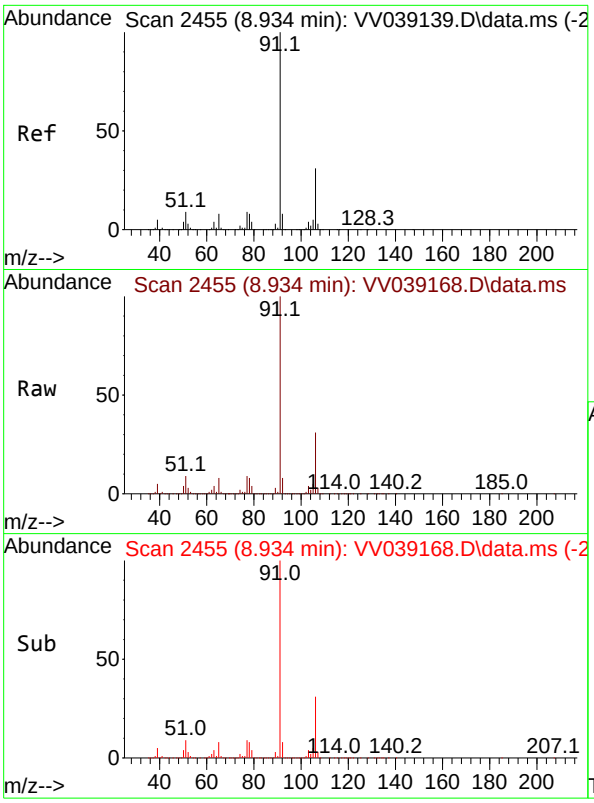




#66
1,1,1,2-Tetrachloroethane
Concen: 47.975 ug/l
RT: 8.895 min Scan# 2443
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion:131 Resp: 435516

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 96.7 | 47.3 | 141.8 |
| 119 | 67.3 | 33.3 | 99.8 |



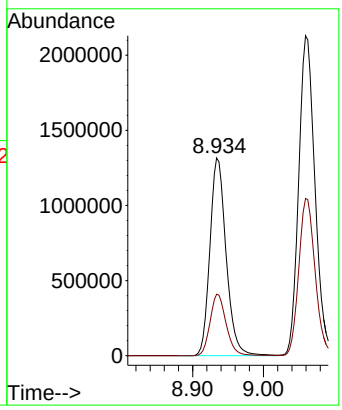


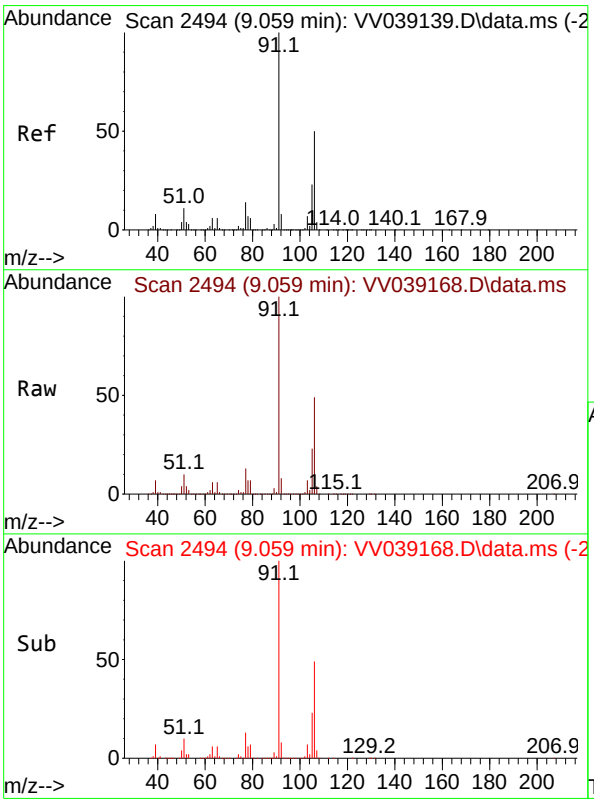

#67
Ethyl Benzene
Concen: 55.024 ug/l
RT: 8.934 min Scan# 24
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 91 Resp: 2092639

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.1 | 24.6 | 37.0 |

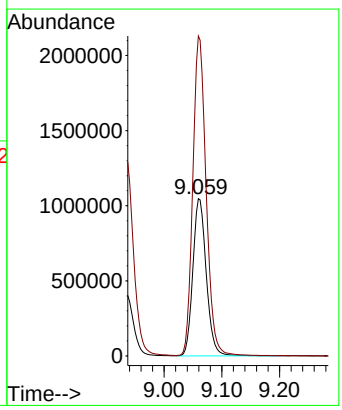


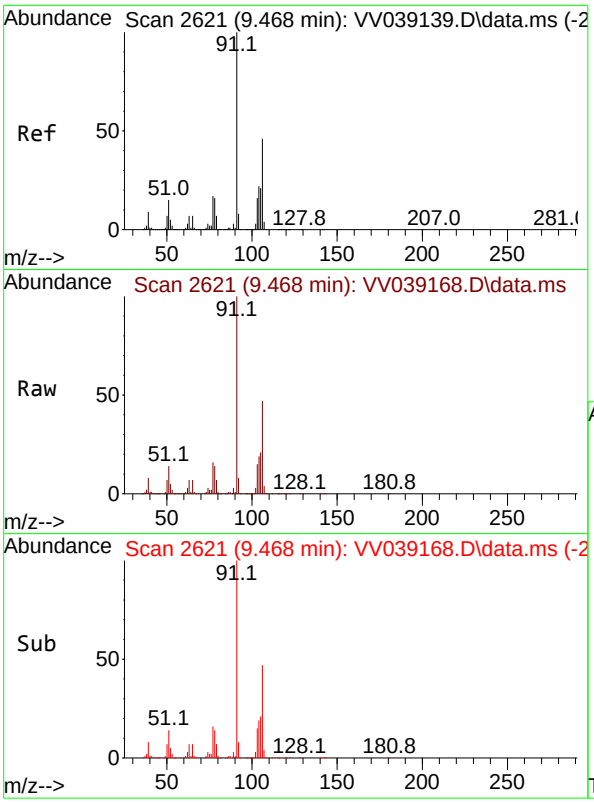




#68
m/p-Xylenes
Concen: 115.018 ug/l
RT: 9.059 min Scan# 2494
Delta R.T. 0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion:106 Resp: 1688294

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 202.3 | 162.5 | 243.7 |



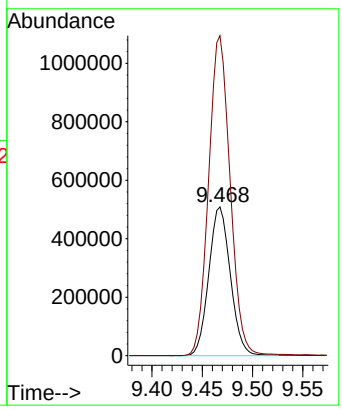


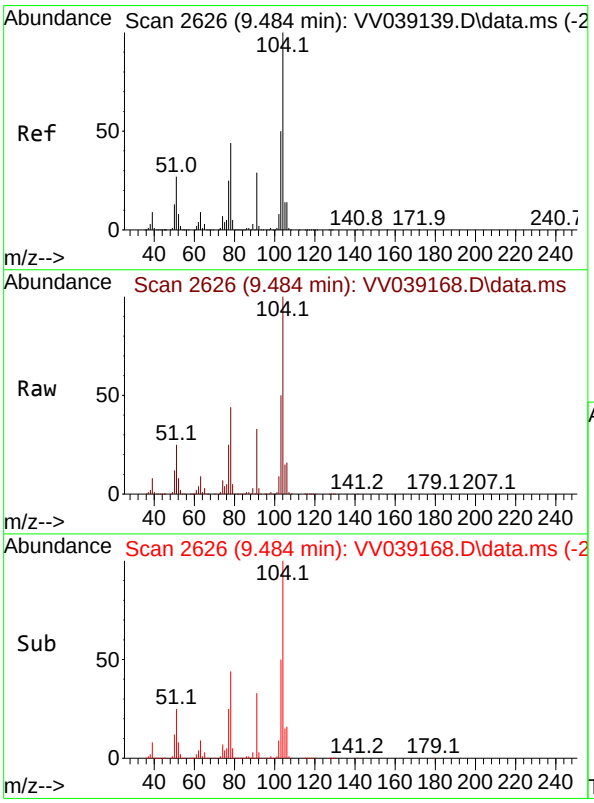

#69
o-Xylene
Concen: 58.347 ug/l
RT: 9.468 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:106 Resp: 758328

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 215.3 | 109.1 | 327.3 |

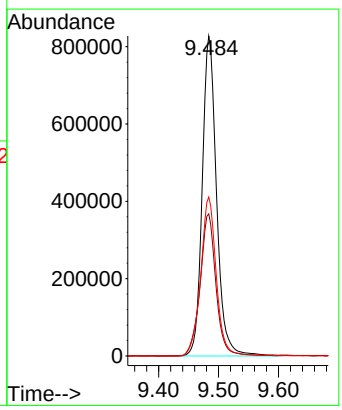


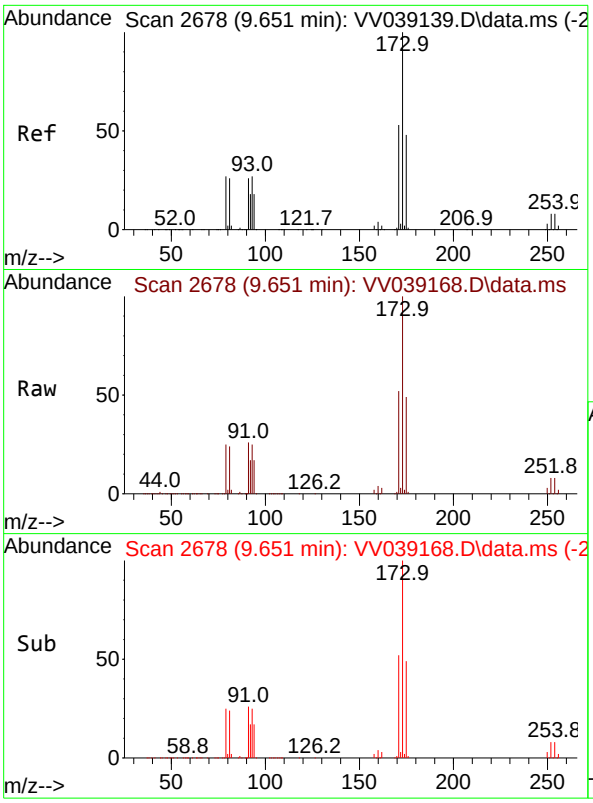




#70
Styrene
Concen: 50.114 ug/l
RT: 9.484 min Scan# 2626
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion:104 Resp: 1379790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 49.1 | 39.8 | 59.6 |
| 103 | 53.9 | 43.4 | 65.2 |



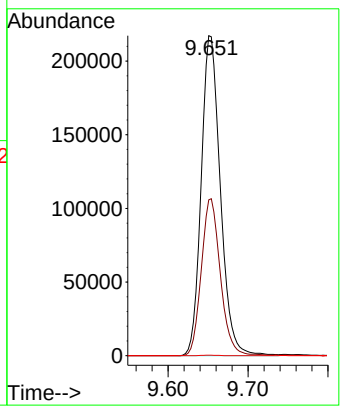


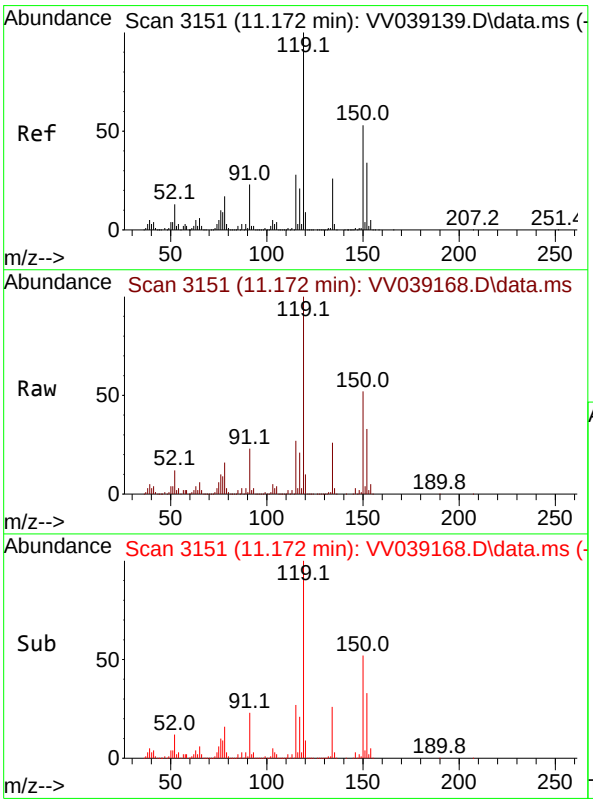

#71
Bromoform
Concen: 51.118 ug/l
RT: 9.651 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:173 Resp: 362481

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.8 | 23.9 | 71.7 |
| 254 | 0.1 | 0.1 | 0.1# |

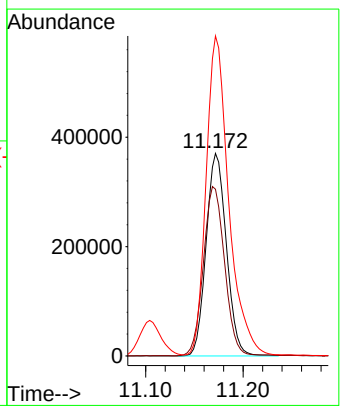


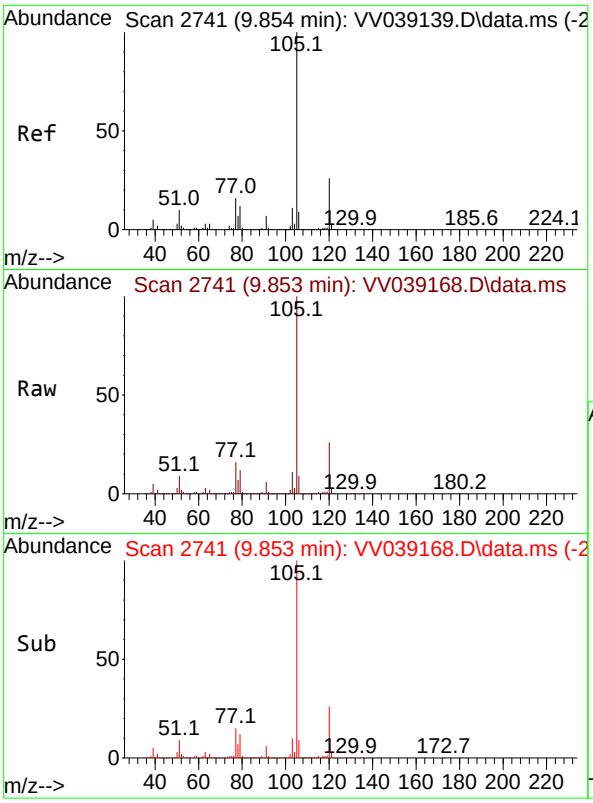




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion:152 Resp: 535710

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 87.4 | 44.8 | 134.4 |
| 150 | 176.8 | 0.0 | 353.8 |



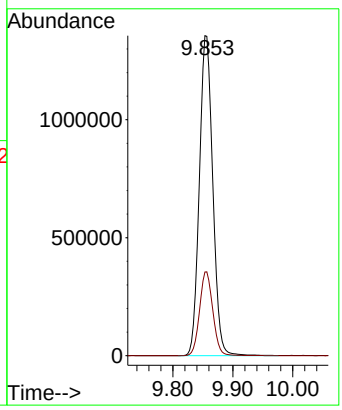


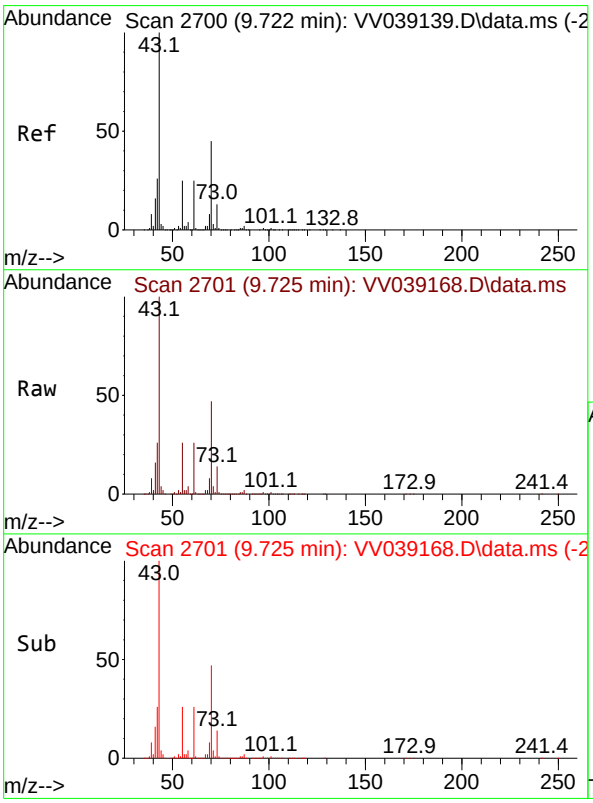

#73
Isopropylbenzene
Concen: 54.407 ug/l
RT: 9.853 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:105 Resp: 2113988

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.8 | 13.1 | 39.1 |

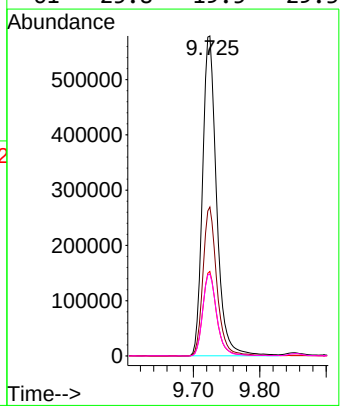


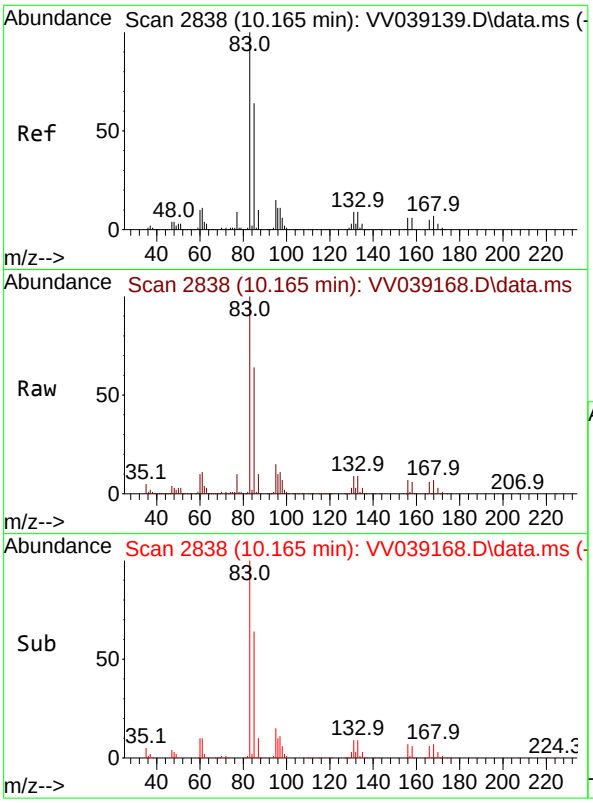




#74
N-amyl acetate
Concen: 55.064 ug/l
RT: 9.725 min Scan# 2701
Delta R.T. 0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 43 Resp: 853417

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 46.2 | 35.4 | 53.0 |
| 55 | 26.1 | 20.6 | 30.8 |
| 61 | 25.8 | 19.5 | 29.3 |



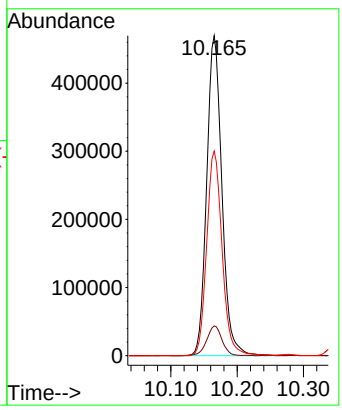


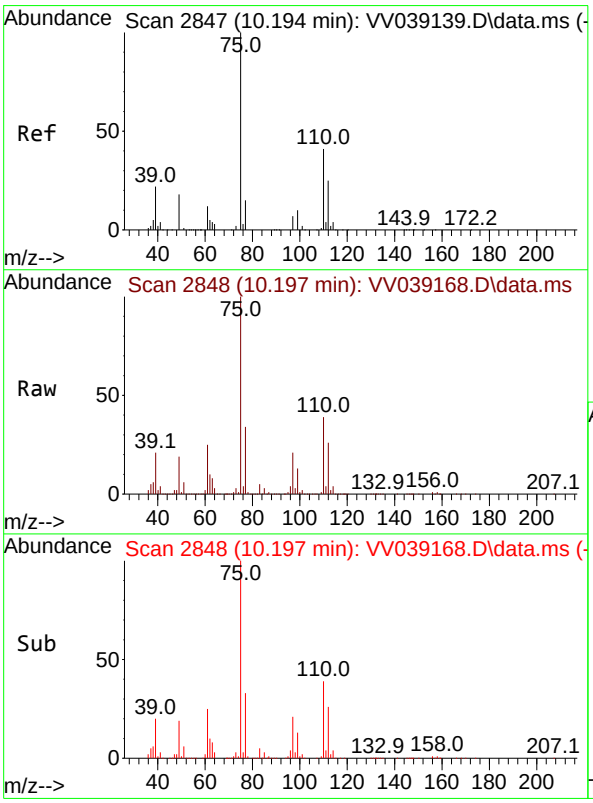

#75
1,1,2,2-Tetrachloroethane
Concen: 43.928 ug/l
RT: 10.165 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 83 Resp: 747856

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.4 | 4.5 | 13.7 |
| 85 | 64.8 | 31.9 | 95.9 |

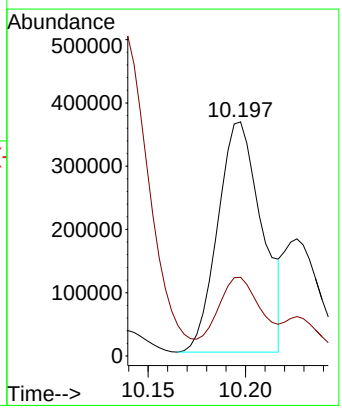


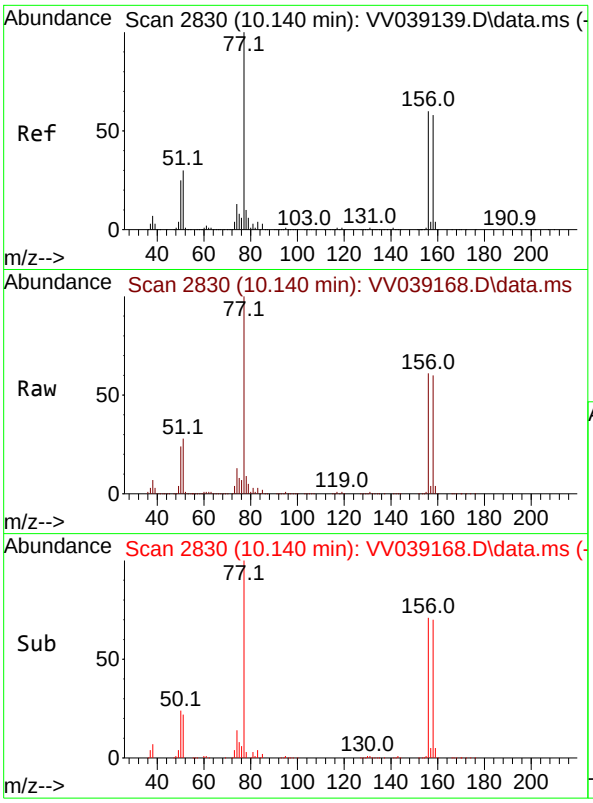




#76
1,2,3-Trichloropropane
Concen: 47.019 ug/l
RT: 10.197 min Scan# 2848
Delta R.T. 0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 75 Resp: 573502

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 23.4 | 11.3 | 33.8 |



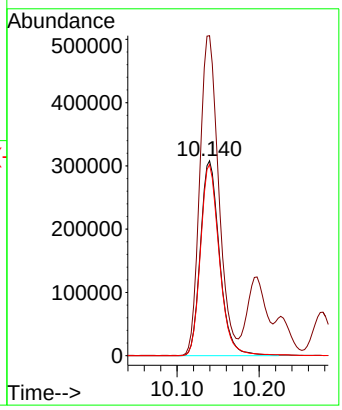


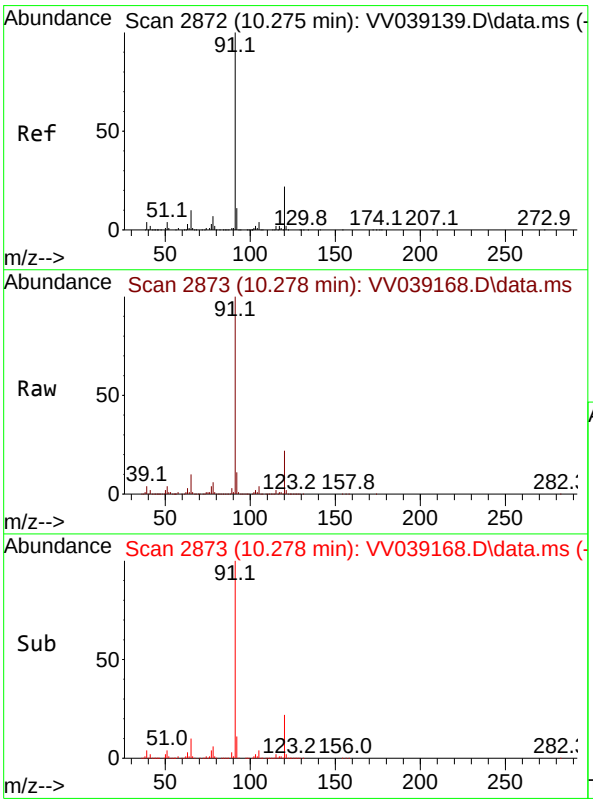

#77
Bromobenzene
Concen: 49.357 ug/l
RT: 10.140 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:156 Resp: 497564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 163.2 | 83.4 | 250.1 |
| 158 | 97.0 | 48.8 | 146.4 |

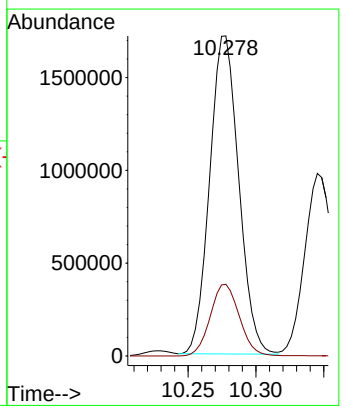


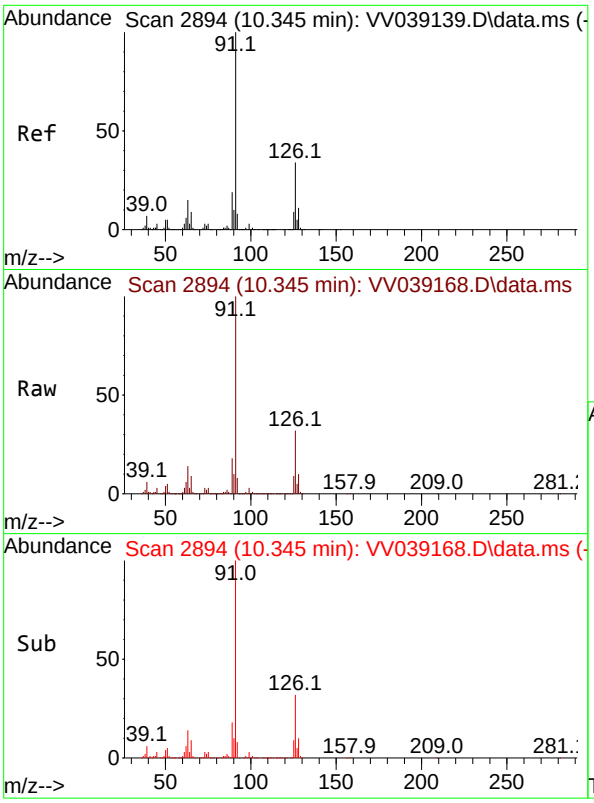




#78
n-propylbenzene
Concen: 53.995 ug/l
RT: 10.278 min Scan# 2873
Delta R.T. 0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 91 Resp: 2554851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.7 | 11.1 | 33.3 |



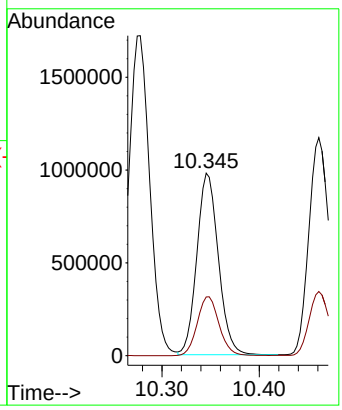


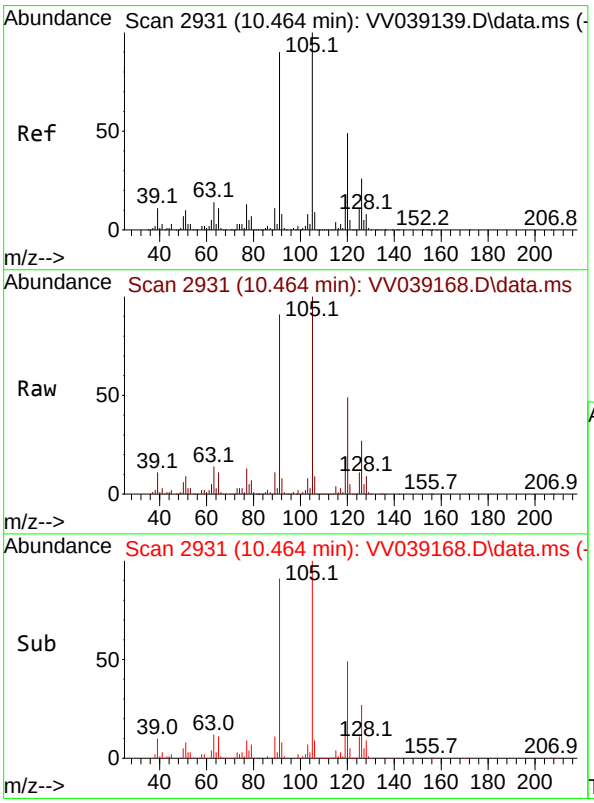

#79
2-Chlorotoluene
Concen: 52.939 ug/l
RT: 10.345 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 91 Resp: 1498849

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.1 | 16.7 | 50.0 |

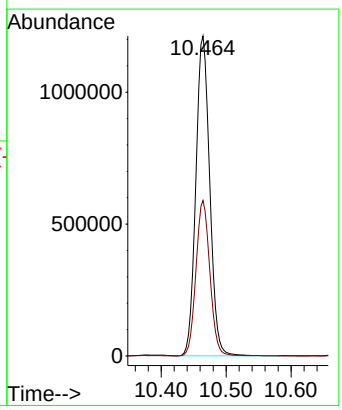


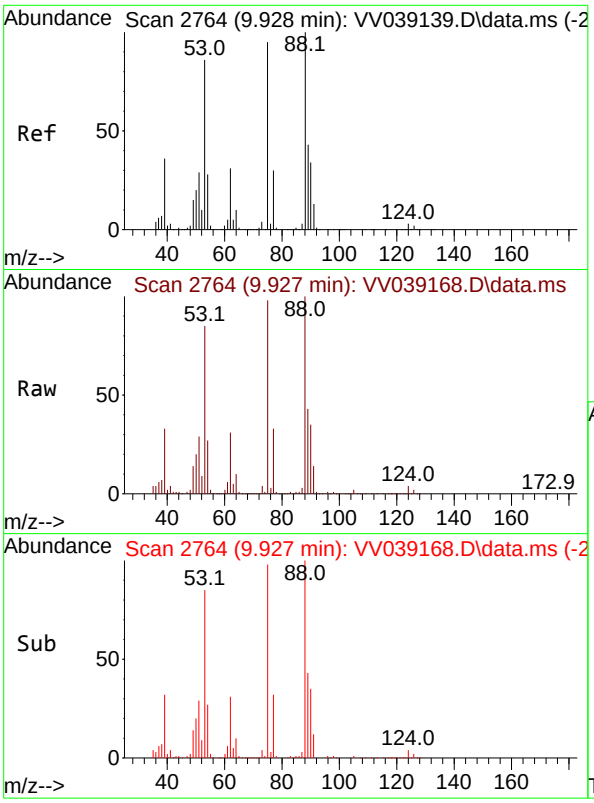




#80
1,3,5-Trimethylbenzene
Concen: 56.020 ug/l
RT: 10.464 min Scan# 2931
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion:105 Resp: 1809221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.6 | 24.3 | 72.8 |



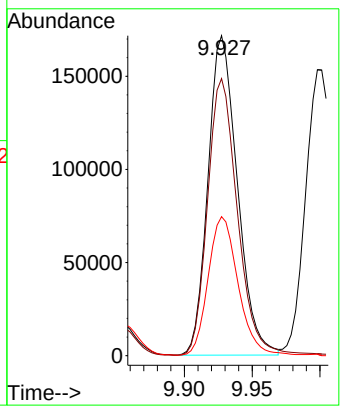


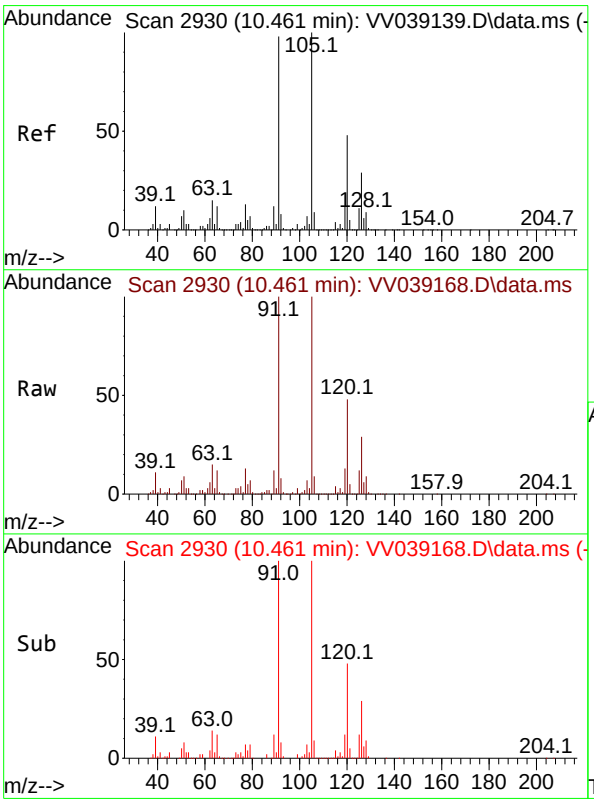

#81
trans-1,4-Dichloro-2-butene
Concen: 50.926 ug/l
RT: 9.927 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 75 Resp: 258743

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 88.1 | 72.5 | 108.7 |
| 89 | 43.9 | 37.2 | 55.8 |

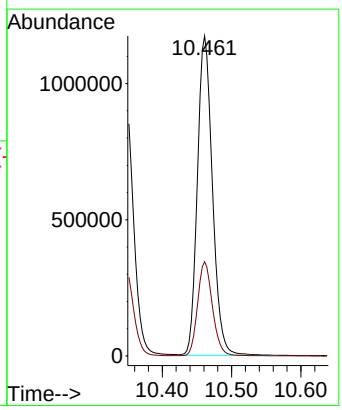


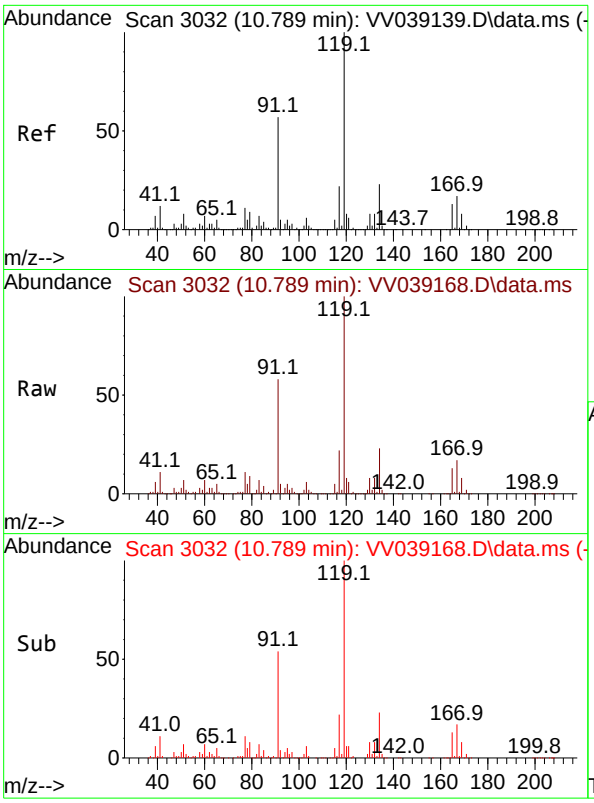




#82
4-Chlorotoluene
Concen: 53.904 ug/l
RT: 10.461 min Scan# 2930
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 91 Resp: 1769699

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 28.8 | 14.5 | 43.6 |



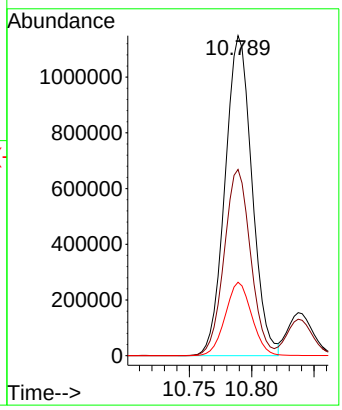


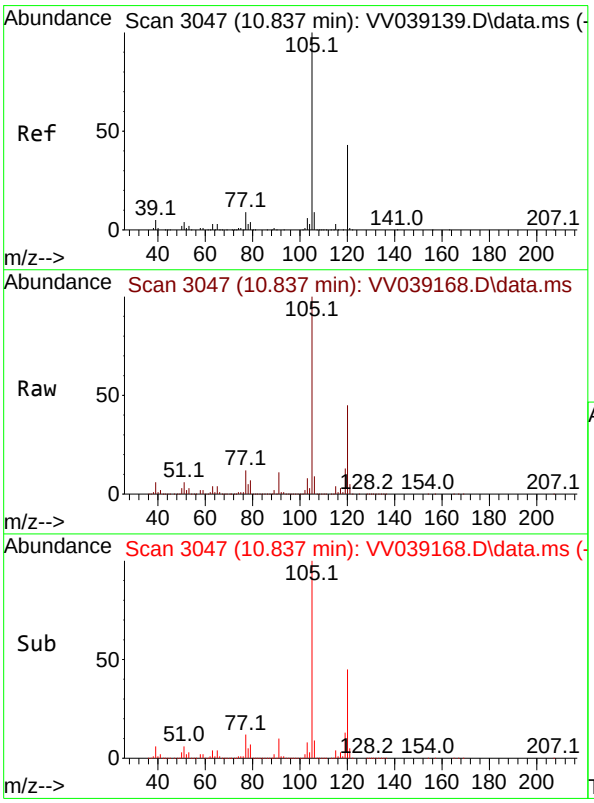

#83
tert-Butylbenzene
Concen: 53.579 ug/l
RT: 10.789 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:119 Resp: 1725454

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 57.2 | 28.5 | 85.6 |
| 134 | 22.7 | 11.5 | 34.4 |

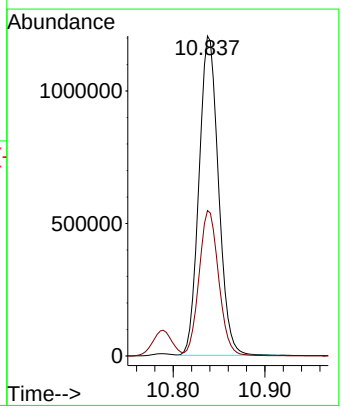


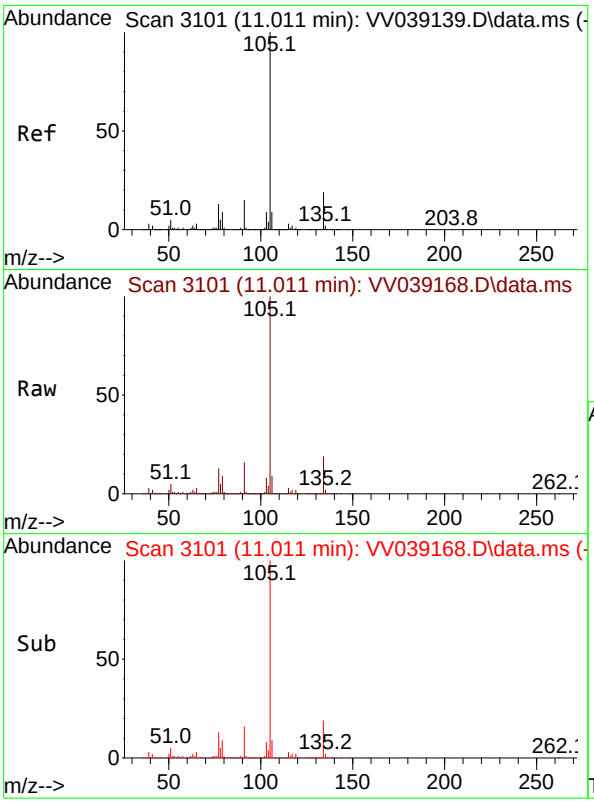




#84
1,2,4-Trimethylbenzene
Concen: 56.693 ug/l
RT: 10.837 min Scan# 3047
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion:105 Resp: 1777572

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.9 | 22.4 | 67.2 |



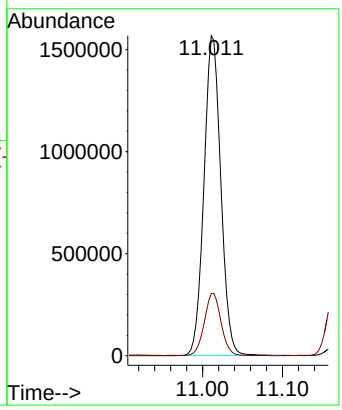


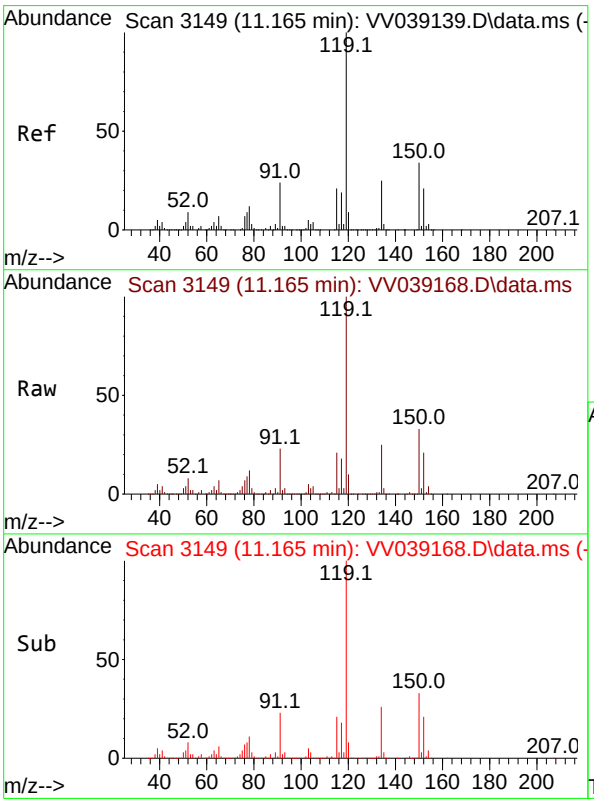

#85
sec-Butylbenzene
Concen: 53.713 ug/l
RT: 11.011 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:105 Resp: 2294341

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.5 | 9.6 | 28.8 |

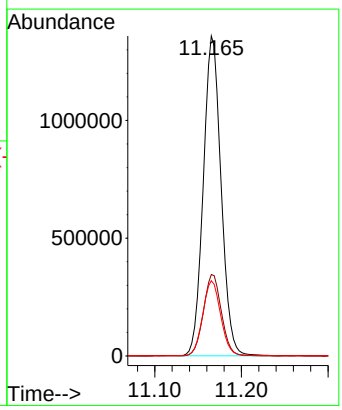


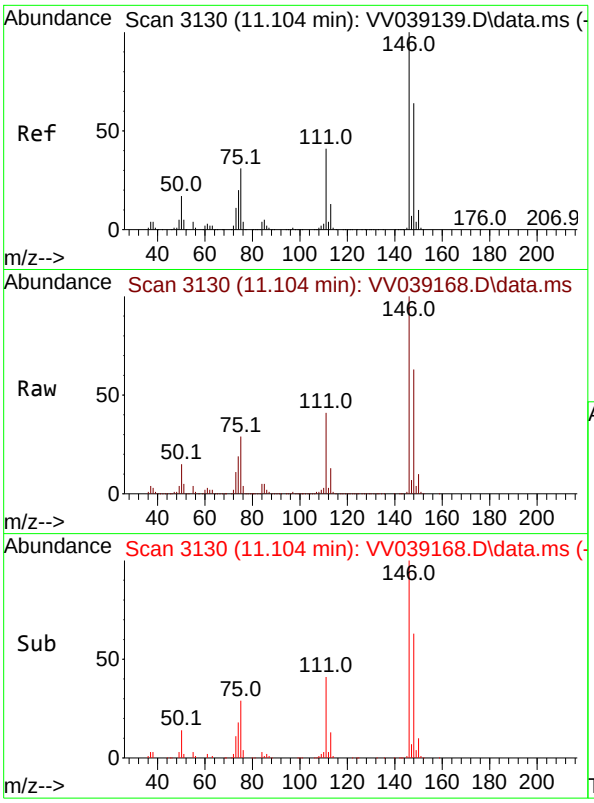




#86
p-Isopropyltoluene
Concen: 54.380 ug/l
RT: 11.165 min Scan# 3149
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion:119 Resp: 1933306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.8 | 12.7 | 38.0 |
| 91 | 23.6 | 12.0 | 36.1 |



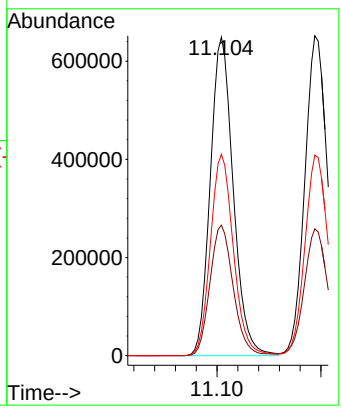


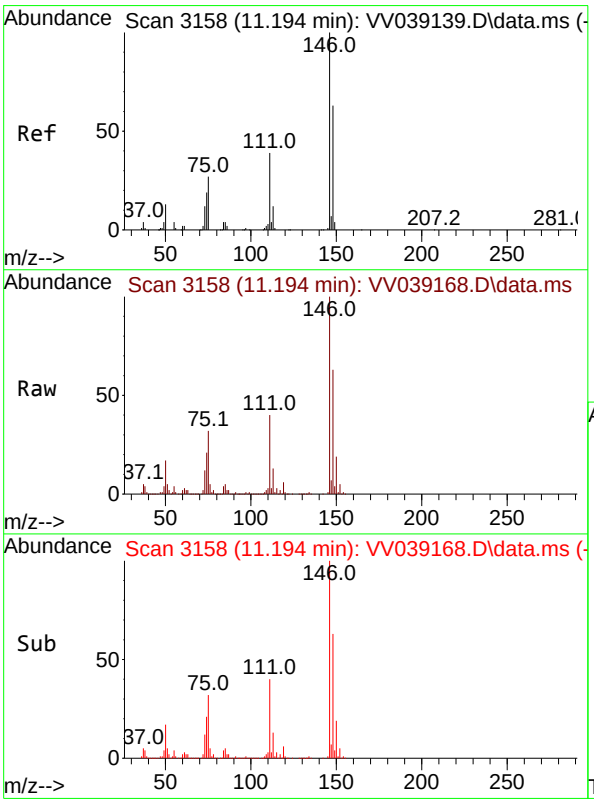

#87
1,3-Dichlorobenzene
Concen: 48.773 ug/l
RT: 11.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:146 Resp: 995077

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.6 | 20.9 | 62.8 |
| 148 | 63.4 | 31.8 | 95.3 |

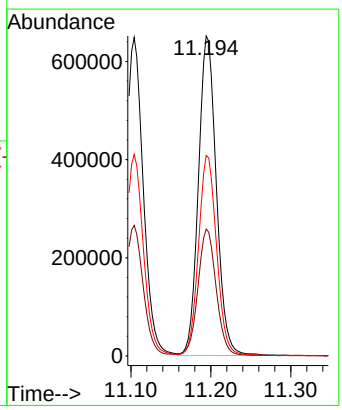


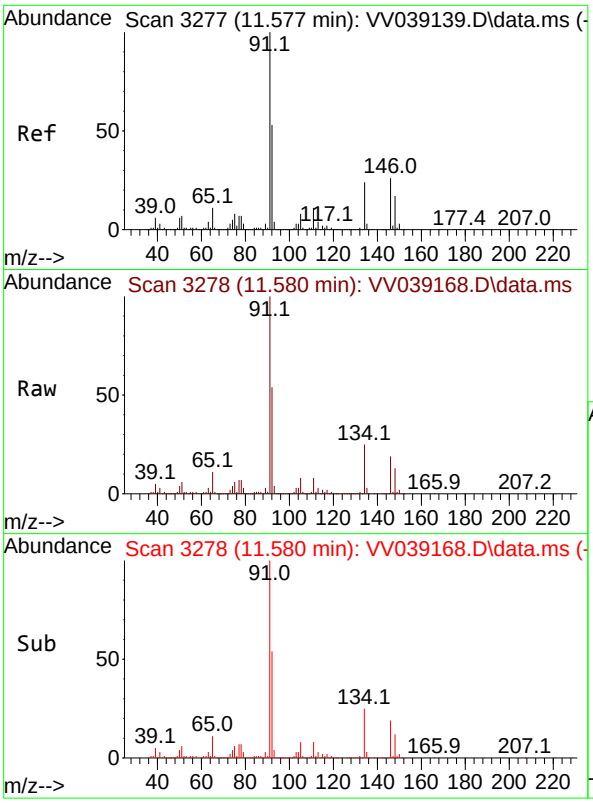




#88
1,4-Dichlorobenzene
Concen: 45.535 ug/l
RT: 11.194 min Scan# 3158
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion:146 Resp: 1019216

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.1 | 20.3 | 60.8 |
| 148 | 63.3 | 31.4 | 94.2 |



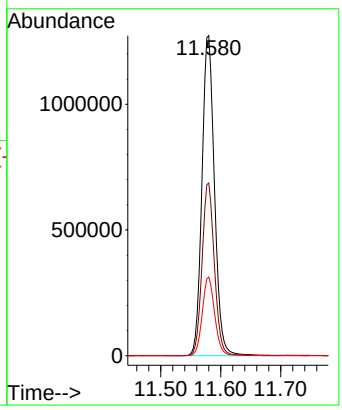


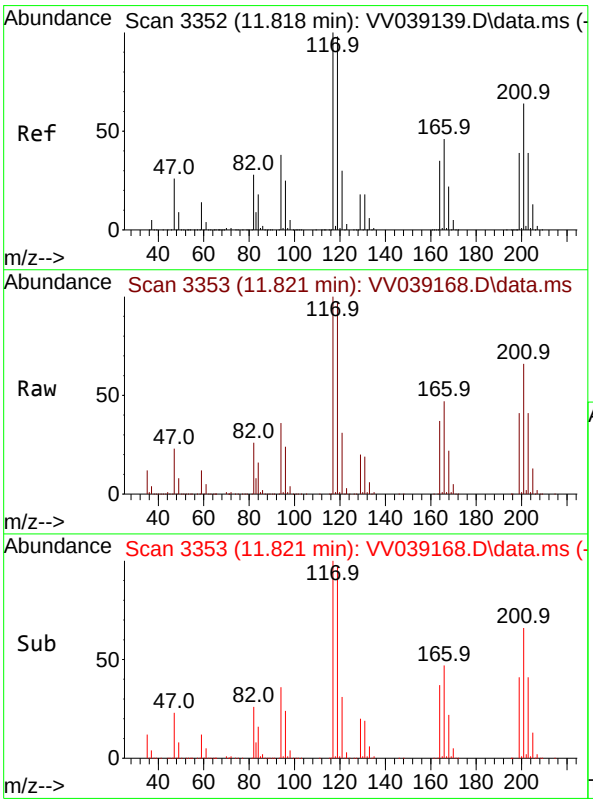

#89
n-Butylbenzene
Concen: 54.607 ug/l
RT: 11.580 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 91 Resp: 1854102

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.3 | 26.6 | 79.8 |
| 134 | 24.4 | 12.1 | 36.3 |

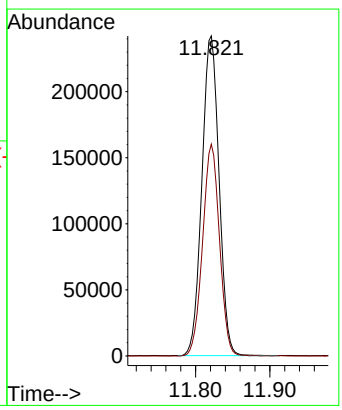


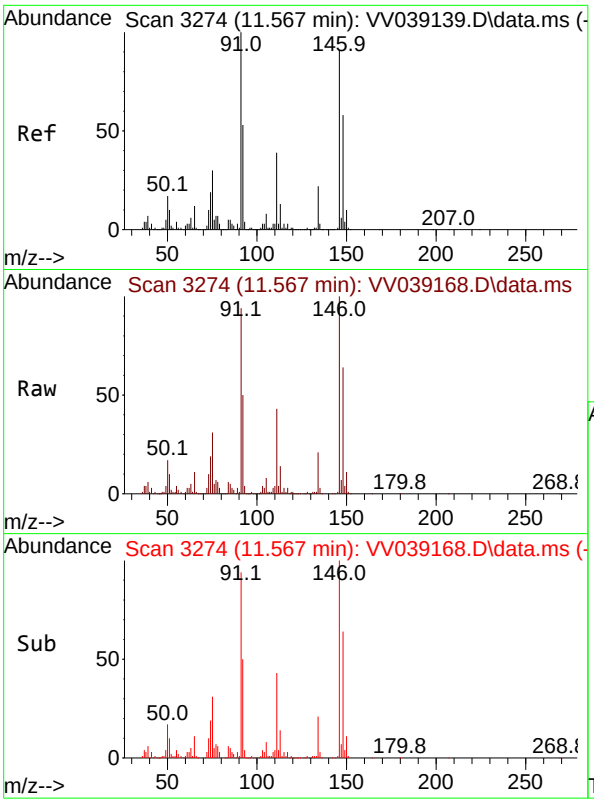




#90
Hexachloroethane
Concen: 44.260 ug/l
RT: 11.821 min Scan# 3353
Delta R.T. 0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion:117 Resp: 387482

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 65.1 | 32.3 | 96.8 |



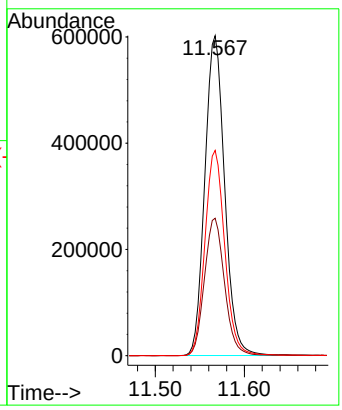


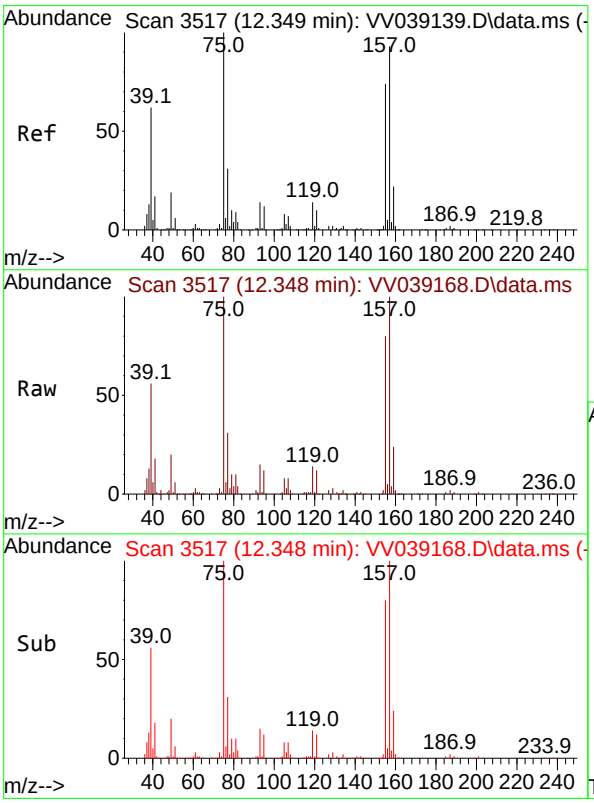

#91
1,2-Dichlorobenzene
Concen: 48.799 ug/l
RT: 11.567 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:146 Resp: 930166

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.7 | 21.5 | 64.5 |
| 148 | 64.4 | 31.9 | 95.7 |

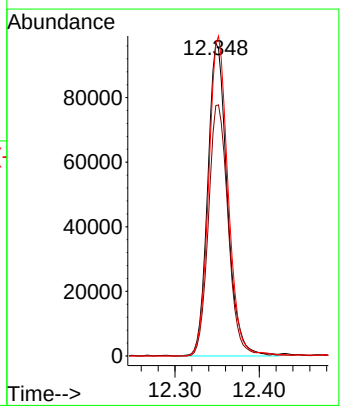


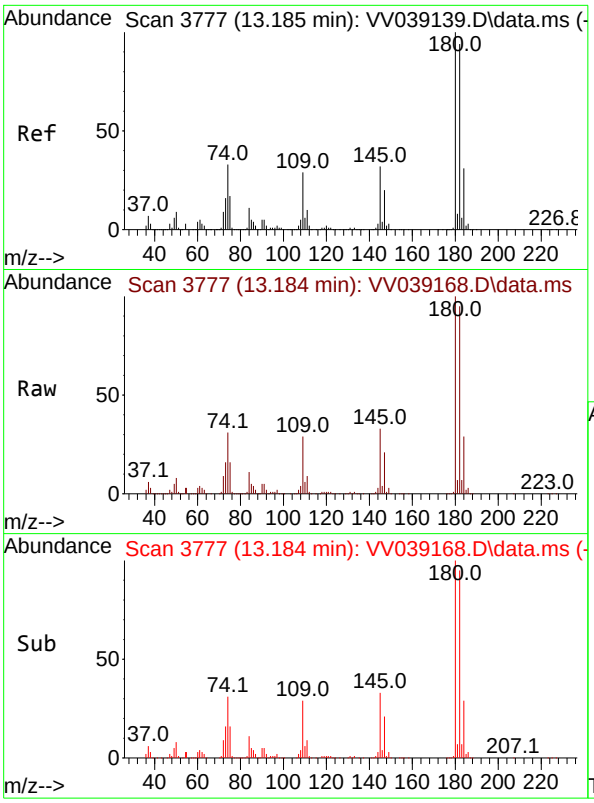




#92
1,2-Dibromo-3-Chloropropane
Concen: 50.961 ug/l
RT: 12.348 min Scan# 3517
Delta R.T. -0.001 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion: 75 Resp: 156226

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 80.8 | 38.6 | 115.8 |
| 157 | 101.6 | 49.5 | 148.3 |



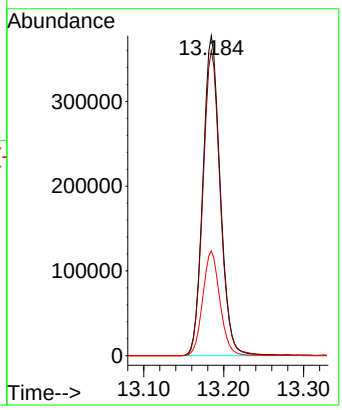


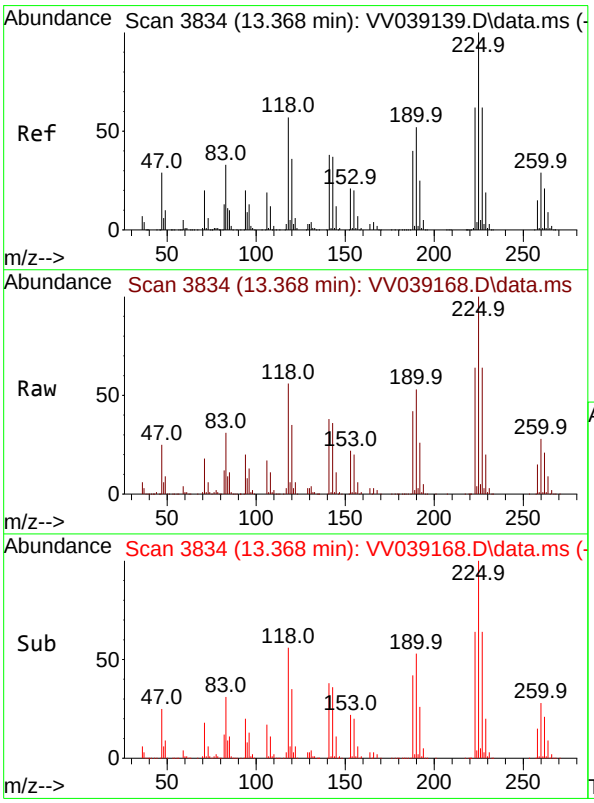

#93
1,2,4-Trichlorobenzene
Concen: 52.055 ug/l
RT: 13.184 min Scan# 3
Delta R.T. -0.001 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:180 Resp: 568781

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.5 | 47.1 | 141.4 |
| 145 | 32.6 | 16.3 | 48.8 |

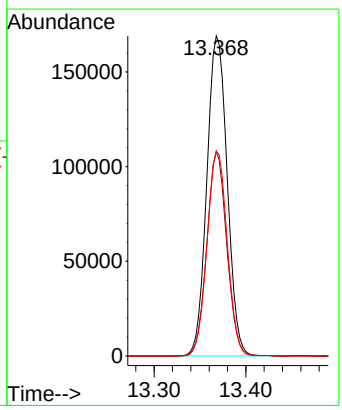


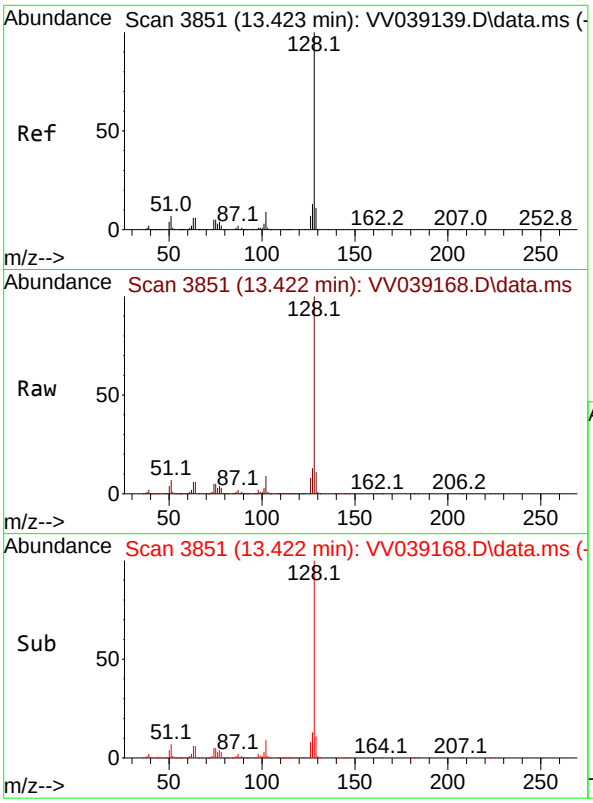




#94
Hexachlorobutadiene
Concen: 45.975 ug/l
RT: 13.368 min Scan# 3834
Delta R.T. -0.000 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion:225 Resp: 261028

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.3 | 31.6 | 94.7 |
| 227 | 63.7 | 31.8 | 95.4 |



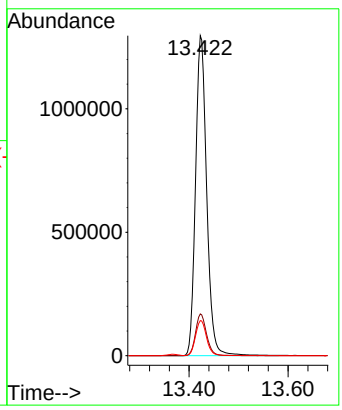


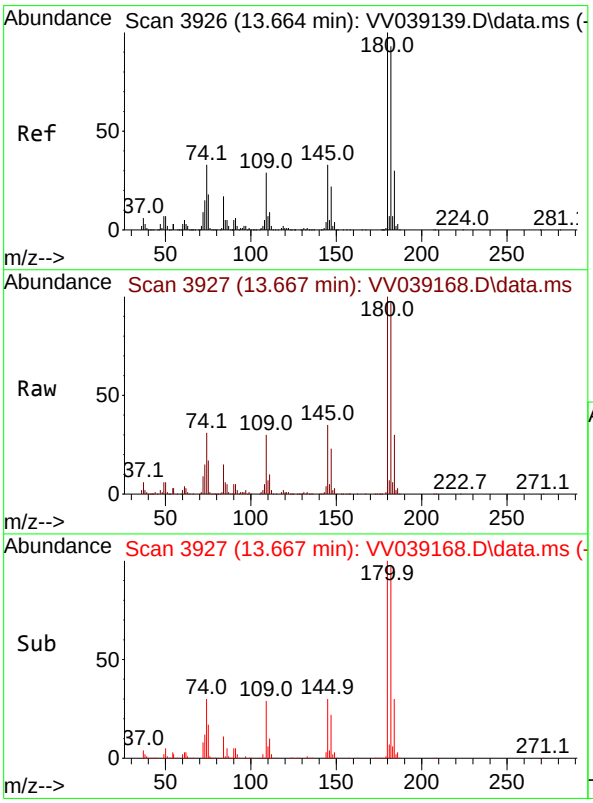

#95
Naphthalene
Concen: 57.749 ug/l
RT: 13.422 min Scan# 3
Delta R.T. -0.001 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:128 Resp: 2039508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.9 | 10.3 | 15.5 |
| 129 | 10.7 | 8.6 | 13.0 |

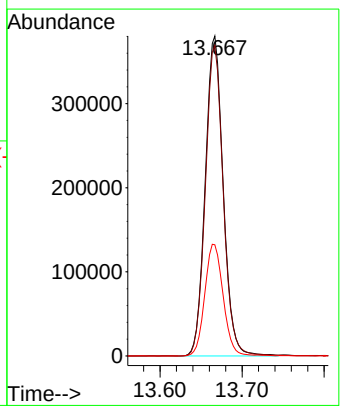



#96
1,2,3-Trichlorobenzene
Concen: 51.848 ug/l
RT: 13.667 min Scan# 3927
Delta R.T. 0.003 min
Lab File: VV039168.D
Acq: 25 Sep 2025 09:59

Tgt Ion:180 Resp: 579422

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.7 | 46.9 | 140.8 |
| 145 | 35.8 | 17.0 | 51.0 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039168.D
Acq On : 25 Sep 2025 09:59
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**LabSampleId :**
VSTDCCC050

Quant Time: Sep 26 01:18:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 107 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.791 | 0.682 | 13.8 | 99 | 0.00 |
| 3 | P | Chloromethane | 0.850 | 0.729 | 14.2 | 102 | 0.00 |
| 4 | C | Vinyl Chloride | 0.910 | 0.819 | 10.0# | 105 | 0.00 |
| 5 | T | Bromomethane | 0.573 | 0.458 | 20.1# | 97 | 0.00 |
| 6 | T | Chloroethane | 0.631 | 0.507 | 19.7 | 102 | 0.00 |
| 7 | T | Trichlorofluoromethane | 1.317 | 1.199 | 9.0 | 108 | 0.00 |
| 8 | T | Diethyl Ether | 0.489 | 0.452 | 7.6 | 109 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.784 | 0.710 | 9.4 | 109 | 0.00 |
| 10 | T | Methyl Iodide | 0.746 | 0.651 | 12.7 | 89 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.153 | 0.153 | 0.0 | 120 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.754 | 0.698 | 7.4# | 111 | 0.00 |
| 13 | T | Acrolein | 0.027 | 0.024 | 11.1 | 99 | 0.00 |
| 14 | T | Allyl chloride | 1.347 | 1.199 | 11.0 | 104 | 0.00 |
| 15 | T | Acrylonitrile | 0.490 | 0.439 | 10.4 | 108 | 0.00 |
| 16 | T | Acetone | 0.523 | 0.406 | 22.4# | 97 | 0.00 |
| 17 | T | Carbon Disulfide | 2.306 | 2.004 | 13.1 | 103 | 0.00 |
| 18 | T | Methyl Acetate | 1.072 | 0.995 | 7.2 | 109 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 2.402 | 2.247 | 6.5 | 108 | 0.00 |
| 20 | T | Methylene Chloride | 1.066 | 0.788 | 26.1# | 109 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.803 | 0.724 | 9.8 | 107 | 0.00 |
| 22 | T | Diisopropyl ether | 2.576 | 2.316 | 10.1 | 99 | 0.00 |
| 23 | T | Vinyl Acetate | 2.254 | 2.056 | 8.8 | 100 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.576 | 1.367 | 13.3 | 106 | 0.00 |
| 25 | T | 2-Butanone | 0.579 | 0.544 | 6.0 | 100 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 1.397 | 1.140 | 18.4 | 99 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.885 | 0.825 | 6.8 | 102 | 0.00 |
| 28 | T | Bromochloromethane | 0.696 | 0.612 | 12.1 | 97 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.363 | 0.355 | 2.2 | 103 | 0.00 |
| 30 | C | Chloroform | 1.645 | 1.426 | 13.3# | 103 | 0.00 |
| 31 | T | Cyclohexane | 1.291 | 1.147 | 11.2 | 99 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.424 | 1.255 | 11.9 | 104 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.724 | 0.609 | 15.9 | 101 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 104 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.402 | 0.384 | 4.5 | 106 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.608 | 0.603 | 0.8 | 101 | 0.00 |
| 37 | T | Ethyl Acetate | 0.737 | 0.697 | 5.4 | 102 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.743 | 0.689 | 7.3 | 102 | 0.00 |
| 39 | T | Methylcyclohexane | 0.734 | 0.797 | -8.6 | 101 | 0.00 |
| 40 | TM | Benzene | 1.979 | 1.926 | 2.7 | 101 | 0.00 |
| 41 | T | Methacrylonitrile | 0.273 | 0.313 | -14.7 | 99 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.693 | 0.639 | 7.8 | 100 | 0.00 |
| 43 | T | Isopropyl Acetate | 1.005 | 1.023 | -1.8 | 100 | 0.00 |
| 44 | TM | Trichloroethene | 0.457 | 0.463 | -1.3 | 104 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.492 | 0.493 | -0.2# | 102 | 0.00 |
| 46 | T | Dibromomethane | 0.376 | 0.362 | 3.7 | 103 | 0.00 |
| 47 | T | Bromodichloromethane | 0.778 | 0.729 | 6.3 | 101 | 0.00 |
| 48 | T | Methyl methacrylate | 0.456 | 0.482 | -5.7 | 100 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039168.D
Acq On : 25 Sep 2025 09:59
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**LabSampleId :**
VSTDCCC050

Quant Time: Sep 26 01:18:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 0.007 | 0.008 | -14.3 | 117 | 0.00 |
| 50 | S | Toluene-d8 | 1.181 | 1.121 | 5.1 | 103 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.661 | 0.702 | -6.2 | 100 | 0.00 |
| 52 | CM | Toluene | 1.147 | 1.204 | -5.0# | 102 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.678 | 0.709 | -4.6 | 102 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.749 | 0.783 | -4.5 | 101 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.514 | 0.498 | 3.1 | 105 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.611 | 0.705 | -15.4 | 103 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.812 | 0.802 | 1.2 | 102 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.267 | 0.355 | -33.0# | 105 | 0.00 |
| 59 | T | 2-Hexanone | 0.463 | 0.528 | -14.0 | 101 | 0.00 |
| 60 | T | Dibromochloromethane | 0.586 | 0.574 | 2.0 | 106 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.526 | 0.534 | -1.5 | 105 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.486 | 0.508 | -4.5 | 105 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 104 | 0.00 |
| 64 | T | Tetrachloroethene | 0.419 | 0.418 | 0.2 | 106 | 0.00 |
| 65 | PM | Chlorobenzene | 1.393 | 1.377 | 1.1 | 104 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.503 | 0.483 | 4.0 | 103 | 0.00 |
| 67 | C | Ethyl Benzene | 2.108 | 2.320 | -10.1# | 102 | 0.00 |
| 68 | T | m/p-Xylenes | 0.814 | 0.936 | -15.0 | 103 | 0.00 |
| 69 | T | o-Xylene | 0.720 | 0.841 | -16.8 | 104 | 0.00 |
| 70 | T | Styrene | 1.263 | 1.530 | -21.1# | 103 | 0.00 |
| 71 | P | Bromoform | 0.393 | 0.402 | -2.3 | 106 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 104 | 0.00 |
| 73 | T | Isopropylbenzene | 3.627 | 3.946 | -8.8 | 104 | 0.00 |
| 74 | T | N-amyl acetate | 1.447 | 1.593 | -10.1 | 99 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.589 | 1.396 | 12.1 | 102 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.138 | 1.071 | 5.9 | 106 | 0.00 |
| 77 | T | Bromobenzene | 0.941 | 0.929 | 1.3 | 104 | 0.00 |
| 78 | T | n-propylbenzene | 4.416 | 4.769 | -8.0 | 101 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.643 | 2.798 | -5.9 | 102 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.014 | 3.377 | -12.0 | 103 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.474 | 0.483 | -1.9 | 101 | 0.00 |
| 82 | T | 4-Chlorotoluene | 3.064 | 3.303 | -7.8 | 103 | 0.00 |
| 83 | T | tert-Butylbenzene | 3.006 | 3.221 | -7.2 | 104 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.926 | 3.318 | -13.4 | 102 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.987 | 4.283 | -7.4 | 102 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.318 | 3.609 | -8.8 | 102 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.904 | 1.857 | 2.5 | 104 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 2.089 | 1.903 | 8.9 | 102 | 0.00 |
| 89 | T | n-Butylbenzene | 3.169 | 3.461 | -9.2 | 99 | 0.00 |
| 90 | T | Hexachloroethane | 0.817 | 0.723 | 11.5 | 103 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.779 | 1.736 | 2.4 | 104 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.330 | 0.292 | 11.5 | 106 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 1.020 | 1.062 | -4.1 | 102 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.530 | 0.487 | 8.1 | 105 | 0.00 |
| 95 | T | Naphthalene | 3.296 | 3.807 | -15.5 | 104 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039168.D
Acq On : 25 Sep 2025 09:59
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**LabSampleId :**
VSTDCCC050

Quant Time: Sep 26 01:18:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 1.043 | 1.082 | -3.7 | 101 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039168.D
Acq On : 25 Sep 2025 09:59
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**LabSampleId :**
VSTDCCC050

Quant Time: Sep 26 01:18:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 107 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 43.088 | 13.8 | 99 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 42.924 | 14.2 | 102 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 45.040 | 9.9# | 105 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 39.912 | 20.2# | 97 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 47.163 | 5.7 | 102 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 45.520 | 9.0 | 108 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 46.259 | 7.5 | 109 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 45.275 | 9.5 | 109 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 43.640 | 12.7 | 89 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 249.596 | 0.2 | 120 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 46.283 | 7.4# | 111 | 0.00 |
| 13 | T | Acrolein | 250.000 | 229.786 | 8.1 | 99 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 44.523 | 11.0 | 104 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 223.829 | 10.5 | 108 | 0.00 |
| 16 | T | Acetone | 250.000 | 224.844 | 10.1 | 97 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 43.464 | 13.1 | 103 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 46.408 | 7.2 | 109 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 46.768 | 6.5 | 108 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 50.438 | -0.9 | 109 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 45.131 | 9.7 | 107 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 44.947 | 10.1 | 99 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 228.109 | 8.8 | 100 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 43.389 | 13.2 | 106 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 234.849 | 6.1 | 100 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 40.800 | 18.4 | 99 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 46.579 | 6.8 | 102 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 44.019 | 12.0 | 97 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 244.856 | 2.1 | 103 | 0.00 |
| 30 | C | Chloroform | 50.000 | 43.324 | 13.4# | 103 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 44.432 | 11.1 | 99 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 44.071 | 11.9 | 104 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 42.102 | 15.8 | 101 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 104 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 47.826 | 4.3 | 106 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 49.586 | 0.8 | 101 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 47.290 | 5.4 | 102 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 46.350 | 7.3 | 102 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 54.277 | -8.6 | 101 | 0.00 |
| 40 | TM | Benzene | 50.000 | 48.671 | 2.7 | 101 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 47.017 | 6.0 | 99 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 46.050 | 7.9 | 100 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 50.848 | -1.7 | 100 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 50.680 | -1.4 | 104 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 50.088 | -0.2# | 102 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 48.059 | 3.9 | 103 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 46.843 | 6.3 | 101 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 52.825 | -5.7 | 100 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039168.D
Acq On : 25 Sep 2025 09:59
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**LabSampleId :**
VSTDCCC050

Quant Time: Sep 26 01:18:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 1000.000 | 1135.751 | -13.6 | 117 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 47.485 | 5.0 | 103 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 265.177 | -6.1 | 100 | 0.00 |
| 52 | CM | Toluene | 50.000 | 52.474 | -4.9# | 102 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 52.243 | -4.5 | 102 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 52.312 | -4.6 | 101 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 48.443 | 3.1 | 105 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 57.707 | -15.4 | 103 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 49.373 | 1.3 | 102 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 257.039 | -2.8 | 105 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 247.438 | 1.0 | 101 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 48.938 | 2.1 | 106 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 50.719 | -1.4 | 105 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 52.218 | -4.4 | 105 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 104 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 49.857 | 0.3 | 106 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 49.450 | 1.1 | 104 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 47.975 | 4.0 | 103 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 55.024 | -10.0# | 102 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 115.018 | -15.0 | 103 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 58.347 | -16.7 | 104 | 0.00 |
| 70 | T | Styrene | 50.000 | 50.114 | -0.2 | 103 | 0.00 |
| 71 | P | Bromoform | 50.000 | 51.118 | -2.2 | 106 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 104 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 54.407 | -8.8 | 104 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 55.064 | -10.1 | 99 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 43.928 | 12.1 | 102 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 47.019 | 6.0 | 106 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 49.357 | 1.3 | 104 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 53.995 | -8.0 | 101 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 52.939 | -5.9 | 102 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 56.020 | -12.0 | 103 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 50.926 | -1.9 | 101 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 53.904 | -7.8 | 103 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 53.579 | -7.2 | 104 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 56.693 | -13.4 | 102 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 53.713 | -7.4 | 102 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 54.380 | -8.8 | 102 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 48.773 | 2.5 | 104 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 45.535 | 8.9 | 102 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 54.607 | -9.2 | 99 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 44.260 | 11.5 | 103 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 48.799 | 2.4 | 104 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 50.961 | -1.9 | 106 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 52.055 | -4.1 | 102 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 45.975 | 8.0 | 105 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 57.749 | -15.5 | 104 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039168.D
Acq On : 25 Sep 2025 09:59
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**LabSampleId :**
VSTDCCC050

Quant Time: Sep 26 01:18:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 51.848 | -3.7 | 101 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Alliance TECHNICAL GROUP

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

## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance | Contract: TECH05

Lab Code: ACE | SDG No.: Q3195

Instrument ID: MSVOA_V | Calibration Date/Time: 09/26/2025 09:20

Lab File ID: VV039198.D | Init. Calib. Date(s): 09/22/2025 09/22/2025

Heated Purge: (Y/N) N | Init. Calib. Time(s): 12:26 16:35

GC Column: DB-624UI ID: 0.18 (mm)

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.792 | 0.698 | | -11.87 | 20 |
| Chloromethane | 0.850 | 0.736 | 0.1 | -13.41 | 20 |
| Vinyl Chloride | 0.910 | 0.844 | | -7.25 | 20 |
| Bromomethane | 0.573 | 0.514 | | -10.3 | 20 |
| Chloroethane | 0.631 | 0.532 | | -15.69 | 20 |
| Trichlorofluoromethane | 1.317 | 1.229 | | -6.68 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.784 | 0.749 | | -4.46 | 20 |
| 1,1-Dichloroethene | 0.754 | 0.714 | | -5.3 | 20 |
| Acetone | 0.523 | 0.568 | | 8.6 | 20 |
| Carbon Disulfide | 2.306 | 2.040 | | -11.53 | 20 |
| Methyl tert-butyl Ether | 2.402 | 2.440 | | 1.58 | 20 |
| Methyl Acetate | 1.072 | 1.106 | | 3.17 | 20 |
| Methylene Chloride | 1.066 | 0.831 | | -22.05 | 20 |
| trans-1,2-Dichloroethene | 0.803 | 0.750 | | -6.6 | 20 |
| 1,1-Dichloroethane | 1.576 | 1.404 | 0.1 | -10.91 | 20 |
| Cyclohexane | 1.291 | 1.107 | | -14.25 | 20 |
| 2-Butanone | 0.579 | 0.645 | | 11.4 | 20 |
| Carbon Tetrachloride | 0.743 | 0.677 | | -8.88 | 20 |
| cis-1,2-Dichloroethene | 0.885 | 0.866 | | -2.15 | 20 |
| Bromochloromethane | 0.696 | 0.693 | | -0.43 | 20 |
| Chloroform | 1.645 | 1.456 | | -11.49 | 20 |
| 1,1,1-Trichloroethane | 1.424 | 1.256 | | -11.8 | 20 |
| Methylcyclohexane | 0.734 | 0.718 | | -2.18 | 20 |
| Benzene | 1.979 | 1.939 | | -2.02 | 20 |
| 1,2-Dichloroethane | 0.693 | 0.652 | | -5.92 | 20 |
| Trichloroethene | 0.457 | 0.469 | | 2.63 | 20 |
| 1,2-Dichloropropane | 0.492 | 0.493 | | 0.2 | 20 |
| Bromodichloromethane | 0.778 | 0.742 | | -4.63 | 20 |
| 4-Methyl-2-Pentanone | 0.661 | 0.725 | | 9.68 | 20 |
| Toluene | 1.147 | 1.207 | | 5.23 | 20 |
| t-1,3-Dichloropropene | 0.678 | 0.734 | | 8.26 | 20 |
| cis-1,3-Dichloropropene | 0.749 | 0.806 | | 7.61 | 20 |
| 1,1,2-Trichloroethane | 0.514 | 0.512 | | -0.39 | 20 |
| 2-Hexanone | 0.463 | 0.570 | | 23.11 | 20 |
| Dibromochloromethane | 0.586 | 0.587 | | 0.17 | 20 |
| 1,2-Dibromoethane | 0.526 | 0.553 | | 5.13 | 20 |
| Tetrachloroethene | 0.419 | 0.418 | | -0.24 | 20 |
| Chlorobenzene | 1.393 | 1.391 | 0.3 | -0.14 | 20 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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

## VOLATILE CONTINUING CALIBRATION CHECK

| | | | |
|---|---|---|---|
| Lab Name: | Alliance | Contract: | TECH05 |
| Lab Code: | ACE | SDG No.: | Q3195 |
| Instrument ID: | MSVOA_V | Calibration Date/Time: | 09/26/2025 09:20 |
| Lab File ID: | VV039198.D | Init. Calib. Date(s): | 09/22/2025 09/22/2025 |
| Heated Purge: (Y/N) | N | Init. Calib. Time(s): | 12:26 16:35 |

GC Column: DB-624UI ID: 0.18 (mm)

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Ethyl Benzene | 2.108 | 2.309 | | 9.53 | 20 |
| m/p-Xylenes | 0.814 | 0.937 | | 15.11 | 20 |
| o-Xylene | 0.720 | 0.840 | | 16.67 | 20 |
| Styrene | 1.263 | 1.544 | | 22.25 | 20 |
| Bromoform | 0.393 | 0.425 | 0.1 | 8.14 | 20 |
| Isopropylbenzene | 3.627 | 3.794 | | 4.6 | 20 |
| 1,1,2,2-Tetrachloroethane | 1.589 | 1.478 | 0.3 | -6.99 | 20 |
| 1,3-Dichlorobenzene | 1.904 | 1.883 | | -1.1 | 20 |
| 1,4-Dichlorobenzene | 2.089 | 1.913 | | -8.43 | 20 |
| 1,2-Dichlorobenzene | 1.779 | 1.780 | | 0.06 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.330 | 0.312 | | -5.45 | 20 |
| 1,2,4-Trichlorobenzene | 1.020 | 1.046 | | 2.55 | 20 |
| 1,2,3-Trichlorobenzene | 1.043 | 1.088 | | 4.31 | 20 |
| 1,2-Dichloroethane-d4 | 0.724 | 0.673 | | -7.04 | 20 |
| Dibromofluoromethane | 0.402 | 0.406 | | 1 | 20 |
| Toluene-d8 | 1.181 | 1.181 | | 0 | 20 |
| 4-Bromofluorobenzene | 0.486 | 0.558 | | 14.81 | 20 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039198.D
Acq On : 26 Sep 2025 09:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Quant Time: Sep 27 02:48:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.597 | 168 | 568268 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.529 | 114 | 890856 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.773 | 117 | 851107 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.172 | 152 | 503461 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.937 | 65 | 382222 | 46.473 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 92.940% | | | |
| 35) Dibromofluoromethane | 4.497 | 113 | 361542 | 50.482 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 100.960% | | | |
| 50) Toluene-d8 | 7.233 | 98 | 1052144 | 50.021 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 100.040% | | | |
| 62) 4-Bromofluorobenzene | 9.998 | 95 | 496739 | 57.366 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 114.740%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.121 | 85 | 396522 | 44.079 | ug/l | 98 |
| 3) Chloromethane | 1.227 | 50 | 418050 | 43.290 | ug/l | 100 |
| 4) Vinyl Chloride | 1.295 | 62 | 479647 | 46.394 | ug/l | 100 |
| 5) Bromomethane | 1.494 | 94 | 291810 | 44.774 | ug/l | 98 |
| 6) Chloroethane | 1.558 | 64 | 302144 | 49.614 | ug/l | 96 |
| 7) Trichlorofluoromethane | 1.722 | 101 | 698490 | 46.665 | ug/l | 99 |
| 8) Diethyl Ether | 1.915 | 74 | 274691 | 49.434 | ug/l | 96 |
| 9) 1,1,2-Trichlorotrifluo... | 2.079 | 101 | 425486 | 47.774 | ug/l | 98 |
| 10) Methyl Iodide | 2.195 | 142 | 417411 | 49.215 | ug/l | 97 |
| 11) Tert butyl alcohol | 2.568 | 59 | 464183 | 267.036 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 2.079 | 96 | 405466 | 47.323 | ug/l | 95 |
| 13) Acrolein | 2.008 | 56 | 78856 | 261.435 | ug/l | 100 |
| 14) Allyl chloride | 2.356 | 41 | 702274 | 45.886 | ug/l | 96 |
| 15) Acrylonitrile | 2.671 | 53 | 1342967 | 241.006 | ug/l | 99 |
| 16) Acetone | 2.118 | 43 | 1614924 | 325.476 | ug/l | 97 |
| 17) Carbon Disulfide | 2.249 | 76 | 1159506 | 44.250 | ug/l | 99 |
| 18) Methyl Acetate | 2.378 | 43 | 628554 | 51.580 | ug/l | 96 |
| 19) Methyl tert-butyl Ether | 2.709 | 73 | 1386577 | 50.786 | ug/l | 100 |
| 20) Methylene Chloride | 2.455 | 84 | 472123 | 53.373 | ug/l | 95 |
| 21) trans-1,2-Dichloroethene | 2.700 | 96 | 426028 | 46.707 | ug/l | 97 |
| 22) Diisopropyl ether | 3.214 | 45 | 1361630 | 46.500 | ug/l | 98 |
| 23) Vinyl Acetate | 3.185 | 43 | 6054952 | 236.375 | ug/l | 97 |
| 24) 1,1-Dichloroethane | 3.114 | 63 | 797976 | 44.562 | ug/l | 99 |
| 25) 2-Butanone | 3.864 | 43 | 1833262 | 278.360 | ug/l | 96 |
| 26) 2,2-Dichloropropane | 3.809 | 77 | 654670 | 41.232 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 3.815 | 96 | 492190 | 48.927 | ug/l | 96 |
| 28) Bromochloromethane | 4.140 | 49 | 393882 | 49.825 | ug/l | 91 |
| 29) Tetrahydrofuran | 4.233 | 42 | 1063152 | 257.902 | ug/l | 97 |
| 30) Chloroform | 4.275 | 83 | 827141 | 44.235 | ug/l | 99 |
| 31) Cyclohexane | 4.581 | 56 | 629144 | 42.889 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 4.510 | 97 | 713673 | 44.086 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 4.741 | 75 | 527907 | 48.754 | ug/l | 98 |
| 37) Ethyl Acetate | 3.973 | 43 | 626124 | 47.654 | ug/l | 96 |
| 38) Carbon Tetrachloride | 4.732 | 117 | 603195 | 45.581 | ug/l | 98 |
| 39) Methylcyclohexane | 6.044 | 83 | 639925 | 48.939 | ug/l | 99 |
| 40) Benzene | 5.005 | 78 | 1727192 | 48.985 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039198.D
Acq On : 26 Sep 2025 09:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Quant Time: Sep 27 02:48:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.153 | 41 | 288855 | 48.677 | ug/l | | 96 |
| 42) 1,2-Dichloroethane | 5.037 | 62 | 580659 | 47.000 | ug/l | | 98 |
| 43) Isopropyl Acetate | 5.191 | 43 | 944896 | 52.745 | ug/l | | 98 |
| 44) Trichloroethene | 5.828 | 130 | 417489 | 51.312 | ug/l | | 99 |
| 45) 1,2-Dichloropropane | 6.085 | 63 | 439219 | 50.116 | ug/l | | 97 |
| 46) Dibromomethane | 6.224 | 93 | 336464 | 50.160 | ug/l | | 97 |
| 47) Bromodichloromethane | 6.423 | 83 | 661080 | 47.672 | ug/l | | 99 |
| 48) Methyl methacrylate | 6.294 | 41 | 446114 | 54.936 | ug/l | | 96 |
| 49) 1,4-Dioxane | 6.288 | 88 | 161118 | 1229.438 | ug/l | | 96 |
| 51) 4-Methyl-2-Pentanone | 7.146 | 43 | 3229046 | 273.983 | ug/l | | 97 |
| 52) Toluene | 7.307 | 92 | 1075327 | 52.600 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 7.571 | 75 | 654044 | 54.120 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 6.944 | 75 | 717693 | 53.795 | ug/l | | 96 |
| 55) 1,1,2-Trichloroethane | 7.757 | 97 | 455956 | 49.741 | ug/l | | 99 |
| 56) Ethyl methacrylate | 7.712 | 69 | 659328 | 60.567 | ug/l | | 96 |
| 57) 1,3-Dichloropropane | 7.931 | 76 | 738511 | 51.050 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 6.809 | 63 | 1583796 | 257.371 | ug/l | | 97 |
| 59) 2-Hexanone | 8.063 | 43 | 2540984 | 266.941 | ug/l | | 96 |
| 60) Dibromochloromethane | 8.166 | 129 | 523192 | 50.091 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 8.272 | 107 | 492305 | 52.515 | ug/l | | 99 |
| 64) Tetrachloroethene | 7.896 | 164 | 356008 | 49.940 | ug/l | | 99 |
| 65) Chlorobenzene | 8.802 | 112 | 1184240 | 49.953 | ug/l | | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 8.895 | 131 | 420629 | 49.105 | ug/l | | 99 |
| 67) Ethyl Benzene | 8.934 | 91 | 1965281 | 54.765 | ug/l | | 100 |
| 68) m/p-Xylenes | 9.059 | 106 | 1594917 | 115.152 | ug/l | | 99 |
| 69) o-Xylene | 9.468 | 106 | 714698 | 58.277 | ug/l | | 98 |
| 70) Styrene | 9.484 | 104 | 1314322 | 50.578 | ug/l | | 100 |
| 71) Bromoform | 9.651 | 173 | 361962 | 54.097 | ug/l | # | 99 |
| 73) Isopropylbenzene | 9.854 | 105 | 1910303 | 52.314 | ug/l | | 100 |
| 74) N-amyl acetate | 9.722 | 43 | 833773 | 57.243 | ug/l | | 97 |
| 75) 1,1,2,2-Tetrachloroethane | 10.166 | 83 | 743933 | 46.497 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 10.194 | 75 | 543913 | 47.449 | ug/l | | 95 |
| 77) Bromobenzene | 10.140 | 156 | 486251 | 51.325 | ug/l | | 97 |
| 78) n-propylbenzene | 10.278 | 91 | 2304429 | 51.822 | ug/l | | 98 |
| 79) 2-Chlorotoluene | 10.346 | 91 | 1410067 | 52.993 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 10.465 | 105 | 1631715 | 53.760 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 9.928 | 75 | 255261 | 53.459 | ug/l | | 97 |
| 82) 4-Chlorotoluene | 10.461 | 91 | 1665368 | 53.976 | ug/l | | 99 |
| 83) tert-Butylbenzene | 10.789 | 119 | 1531956 | 50.617 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 10.838 | 105 | 1635985 | 55.520 | ug/l | | 100 |
| 85) sec-Butylbenzene | 11.011 | 105 | 1994966 | 49.696 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 11.166 | 119 | 1686983 | 50.491 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 11.104 | 146 | 947921 | 49.438 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 11.194 | 146 | 963204 | 45.789 | ug/l | | 98 |
| 89) n-Butylbenzene | 11.577 | 91 | 1607017 | 50.362 | ug/l | | 99 |
| 90) Hexachloroethane | 11.818 | 117 | 339159 | 41.222 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 11.564 | 146 | 896118 | 50.024 | ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.349 | 75 | 157070 | 54.339 | ug/l | | 94 |
| 93) 1,2,4-Trichlorobenzene | 13.185 | 180 | 526372 | 51.259 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 13.368 | 225 | 216529 | 40.581 | ug/l | | 99 |
| 95) Naphthalene | 13.423 | 128 | 1996722 | 60.159 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 13.664 | 180 | 547531 | 52.133 | ug/l | | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039198.D
Acq On : 26 Sep 2025 09:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Quant Time: Sep 27 02:48:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

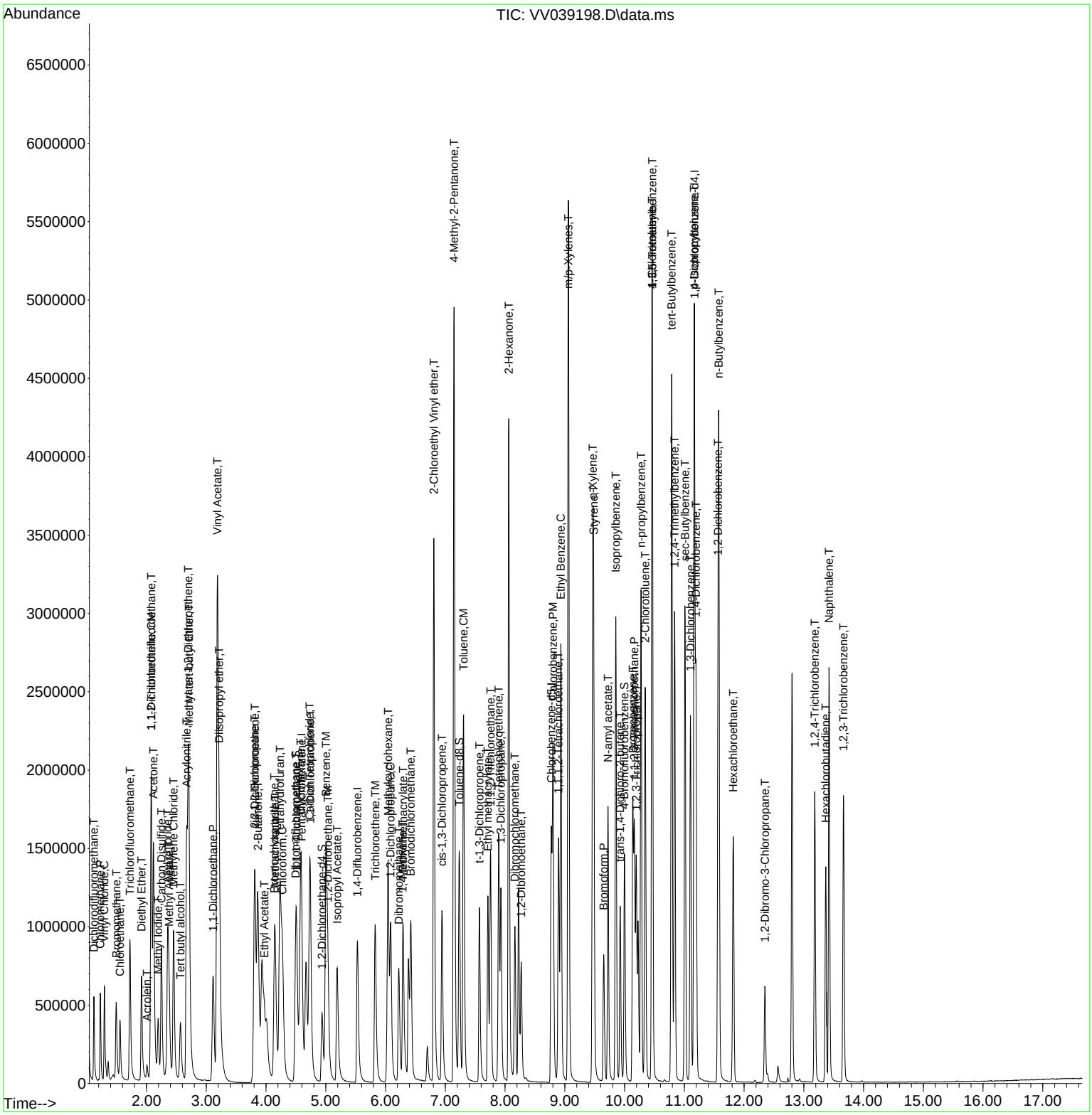
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

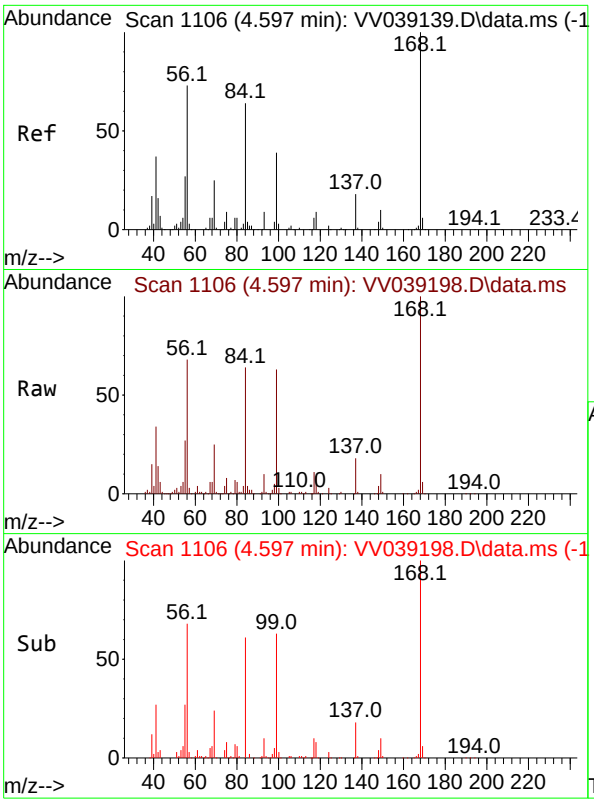
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039198.D
Acq On : 26 Sep 2025 09:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Quant Time: Sep 27 02:48:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



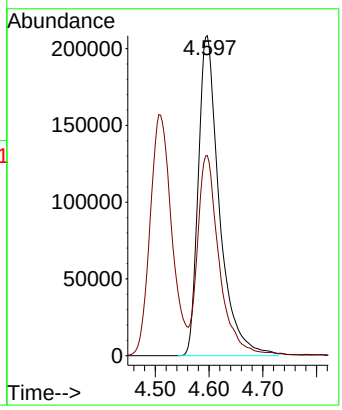


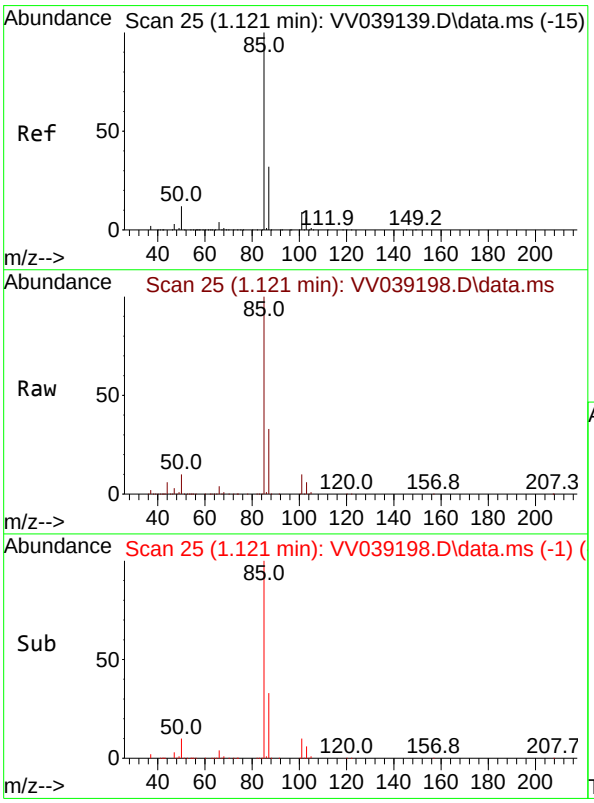

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.597 min Scan# 11
Delta R.T. -0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:168 Resp: 568268

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 61.9 | 49.6 | 74.4 |

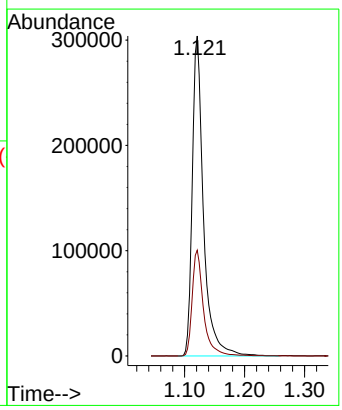


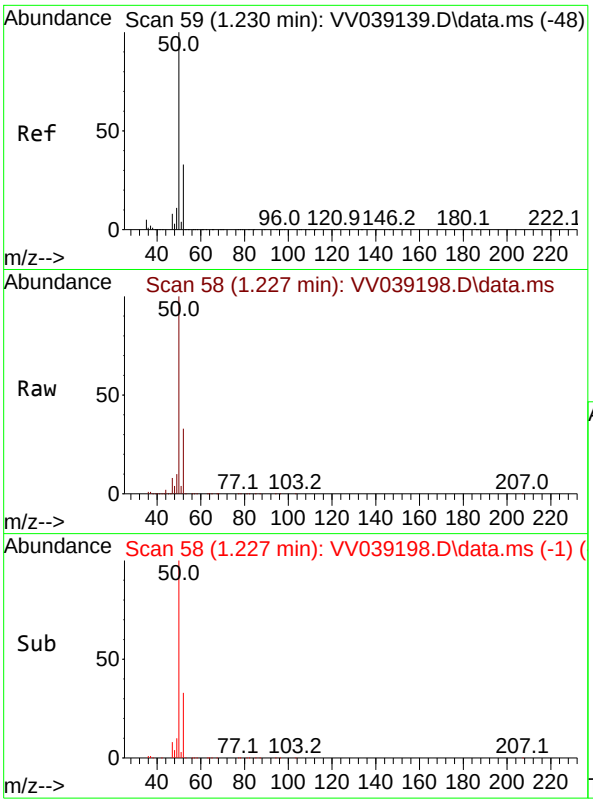




#2
Dichlorodifluoromethane
Concen: 44.079 ug/l
RT: 1.121 min Scan# 25
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 85 Resp: 396522

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.1 | 16.0 | 47.9 |



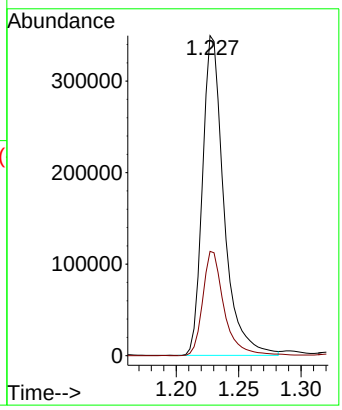


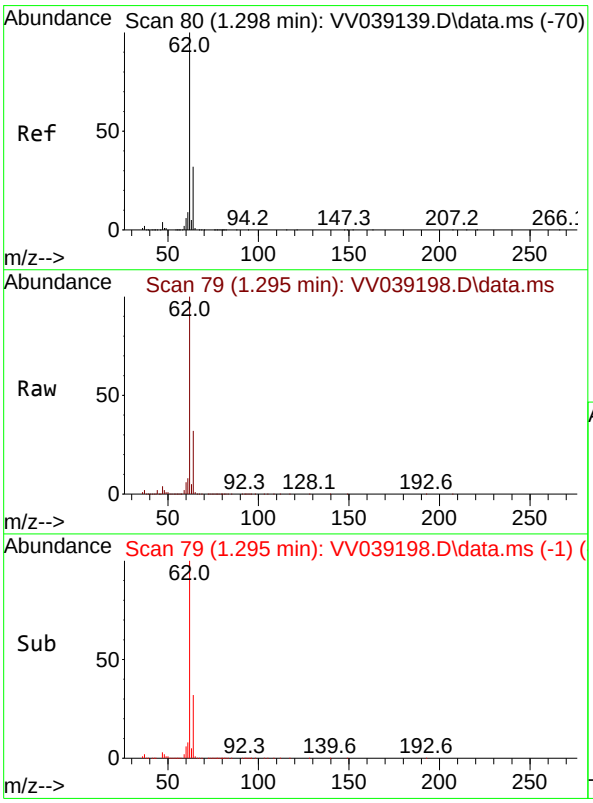

#3
Chloromethane
Concen: 43.290 ug/l
RT: 1.227 min Scan# 5
Delta R.T. -0.003 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 50 Resp: 418050

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.6 | 26.0 | 39.0 |

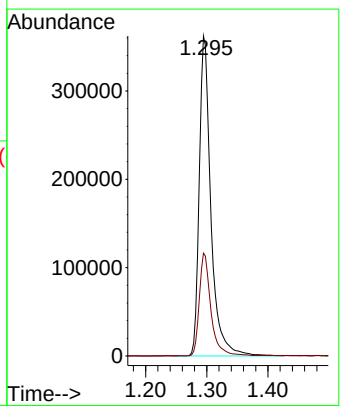


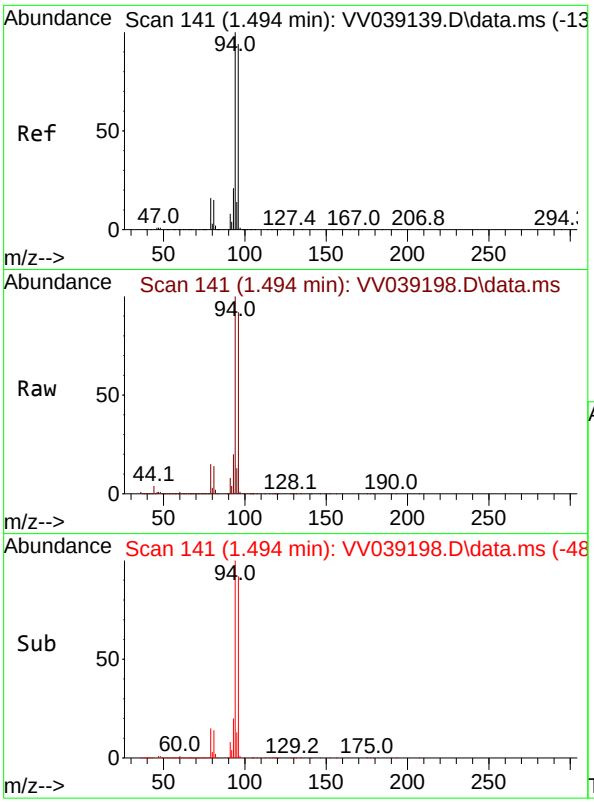




#4
Vinyl Chloride
Concen: 46.394 ug/l
RT: 1.295 min Scan# 79
Delta R.T. -0.003 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 62 Resp: 479647

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.1 | 25.6 | 38.4 |



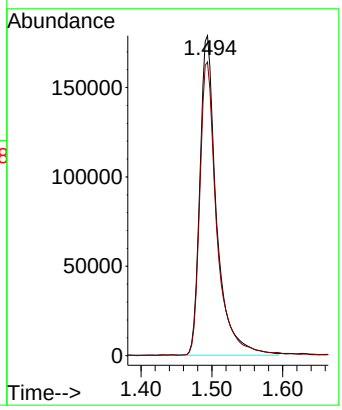


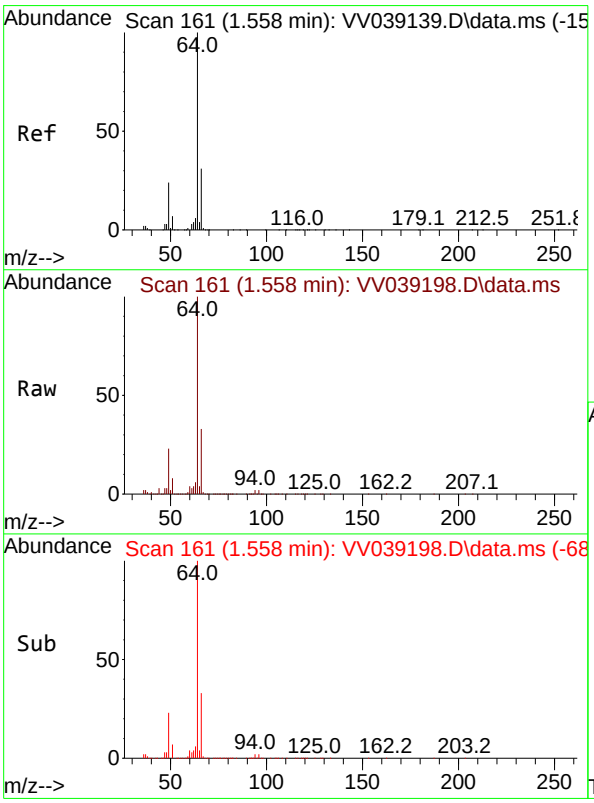

#5
Bromomethane
Concen: 44.774 ug/l
RT: 1.494 min Scan# 14
Delta R.T. -0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 94 Resp: 291810

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 91.8 | 74.9 | 112.3 |

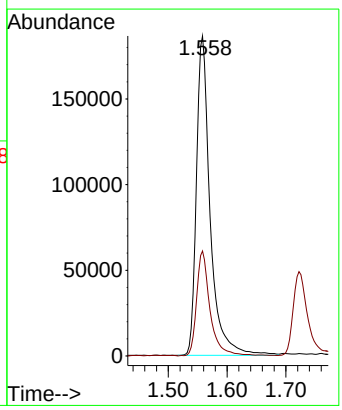


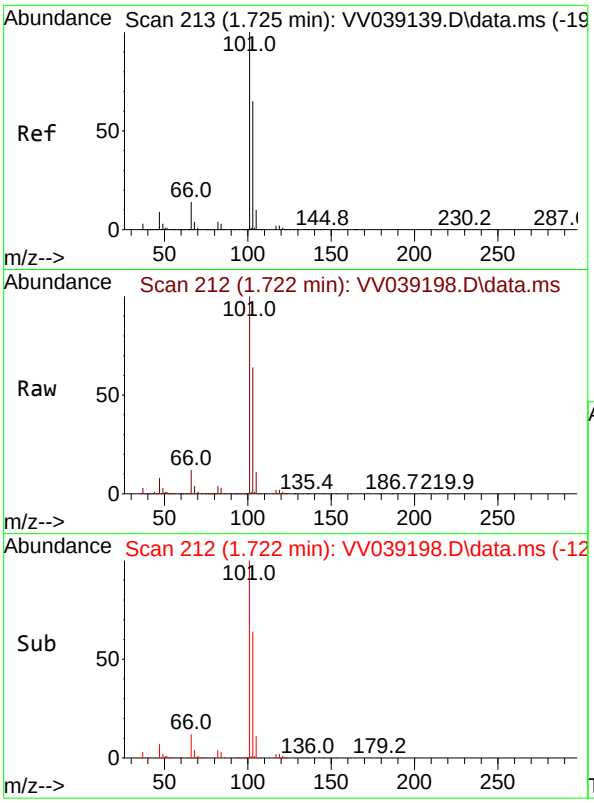




#6
Chloroethane
Concen: 49.614 ug/l
RT: 1.558 min Scan# 161
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 64 Resp: 302144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.9 | 24.6 | 36.8 |



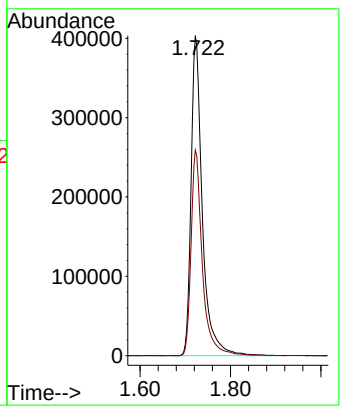


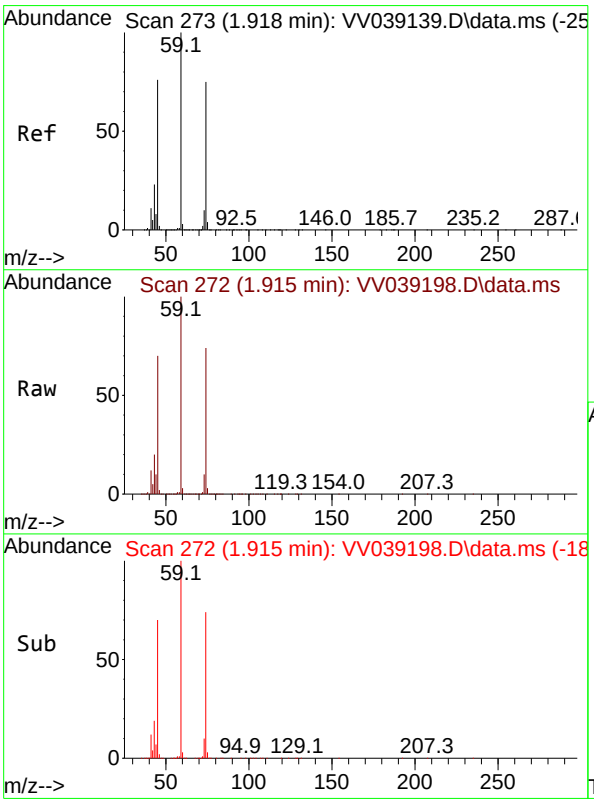

#7
Trichlorofluoromethane
Concen: 46.665 ug/l
RT: 1.722 min Scan# 21
Delta R.T. -0.003 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:101 Resp: 698490

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.3 | 52.0 | 78.0 |

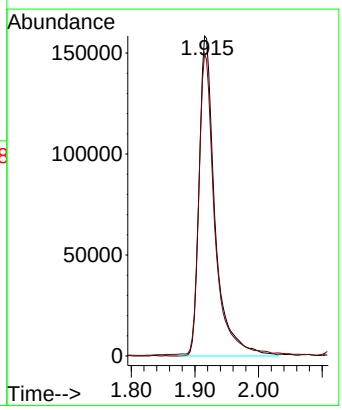


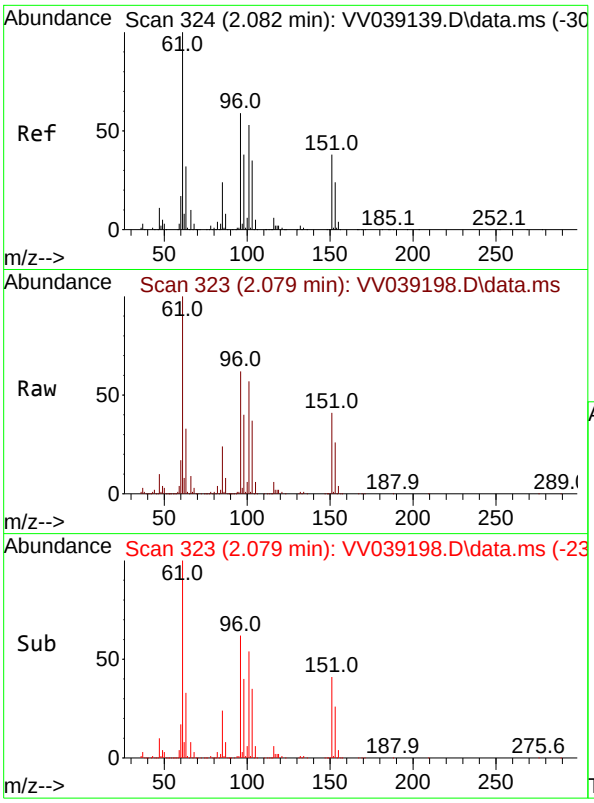




#8
Diethyl Ether
Concen: 49.434 ug/l
RT: 1.915 min Scan# 272
Delta R.T. -0.003 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 74 Resp: 274691

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 95.2 | 49.6 | 148.8 |



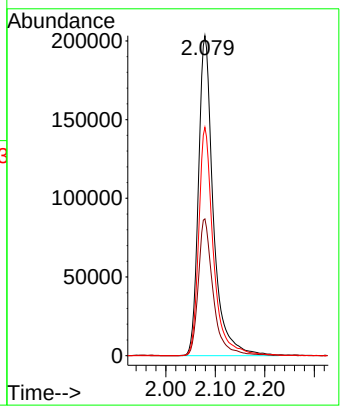


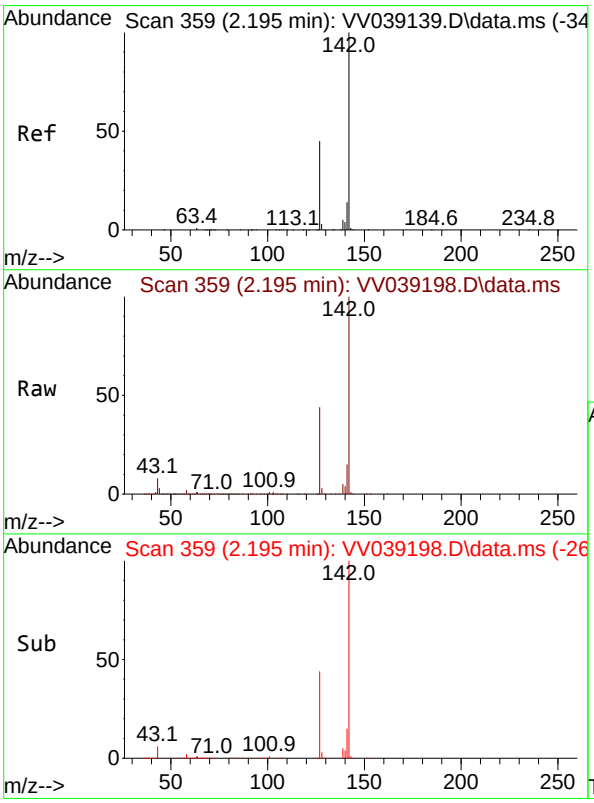

#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.774 ug/l
RT: 2.079 min Scan# 3
Delta R.T. -0.003 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:101 Resp: 425486

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 42.8 | 36.2 | 54.2 |
| 151 | 70.8 | 56.3 | 84.5 |

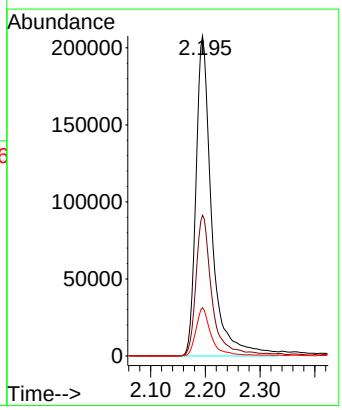


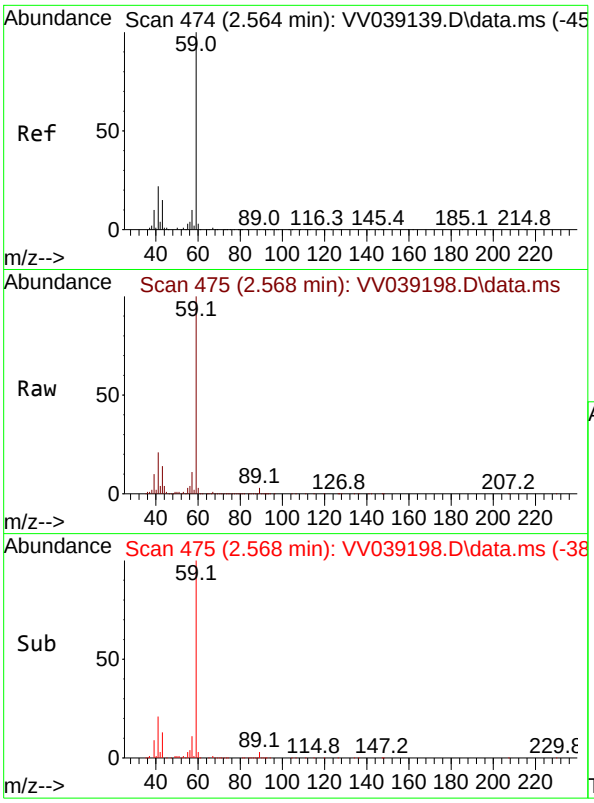




#10
Methyl Iodide
Concen: 49.215 ug/l
RT: 2.195 min Scan# 359
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion:142 Resp: 417411

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 43.4 | 36.3 | 54.5 |
| 141 | 14.3 | 11.2 | 16.8 |



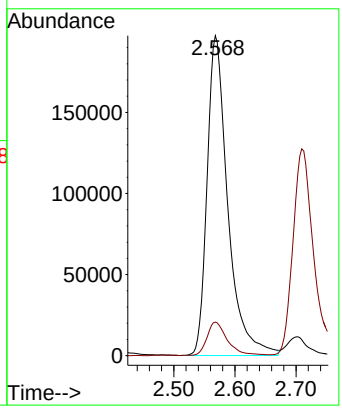


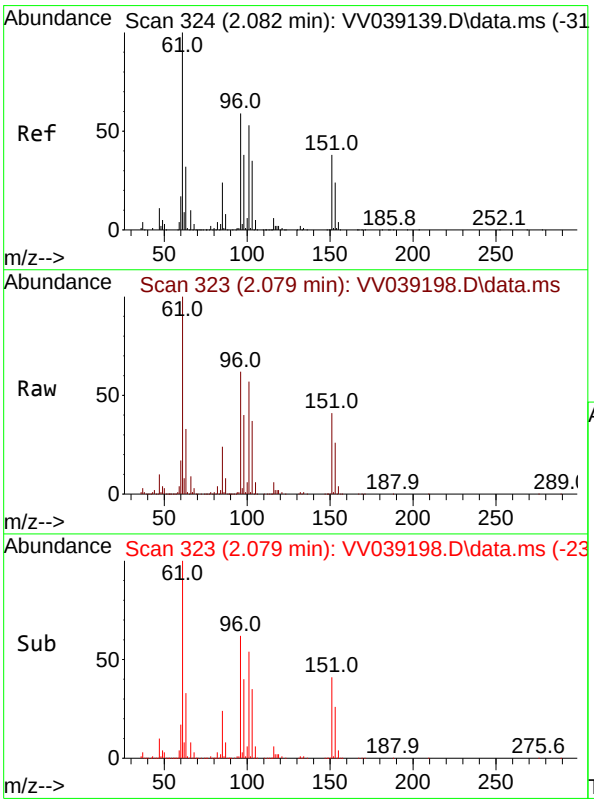

#11
Tert butyl alcohol
Concen: 267.036 ug/l
RT: 2.568 min Scan# 4
Delta R.T. 0.003 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 59 Resp: 464183

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.3 | 7.8 | 11.8 |

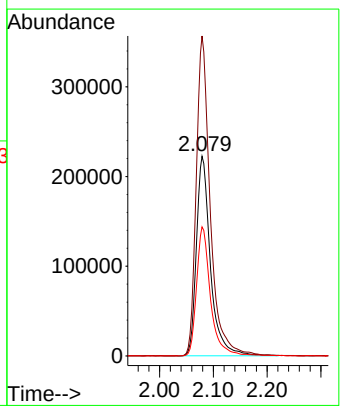


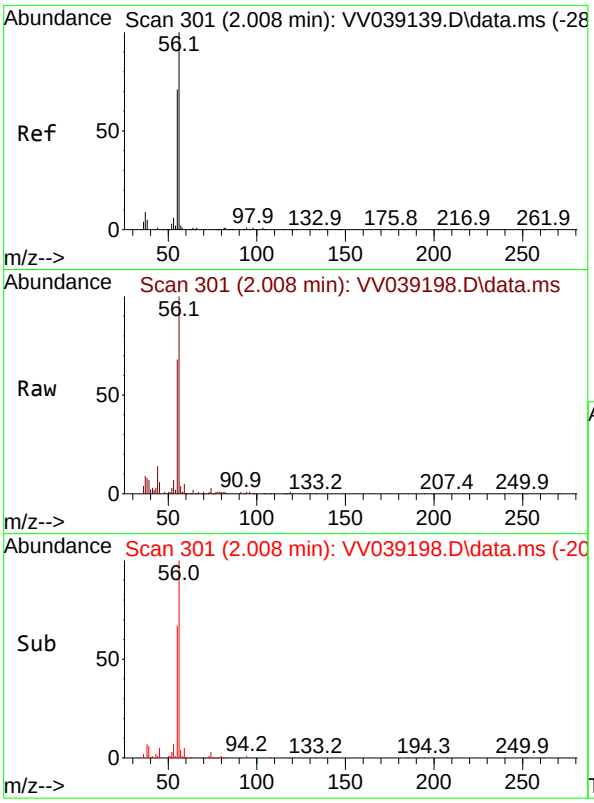




#12
1,1-Dichloroethene
Concen: 47.323 ug/l
RT: 2.079 min Scan# 323
Delta R.T. -0.003 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 96 Resp: 405466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 160.3 | 136.0 | 204.0 |
| 98 | 64.6 | 51.0 | 76.6 |



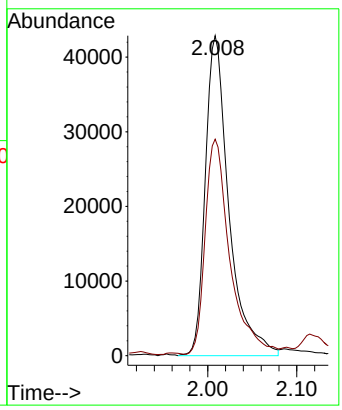


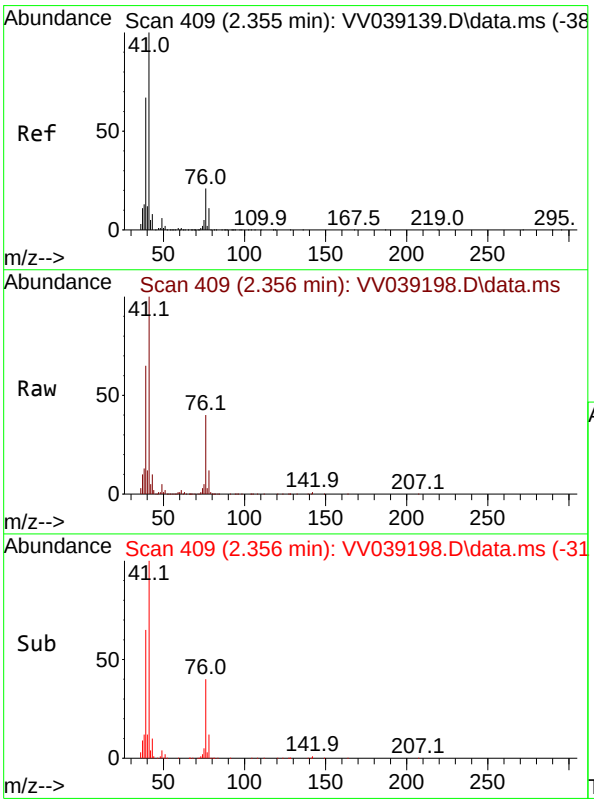

#13
Acrolein
Concen: 261.435 ug/l
RT: 2.008 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 56 Resp: 78856

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 70.1 | 56.2 | 84.4 |

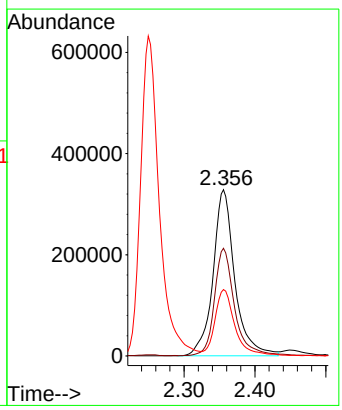


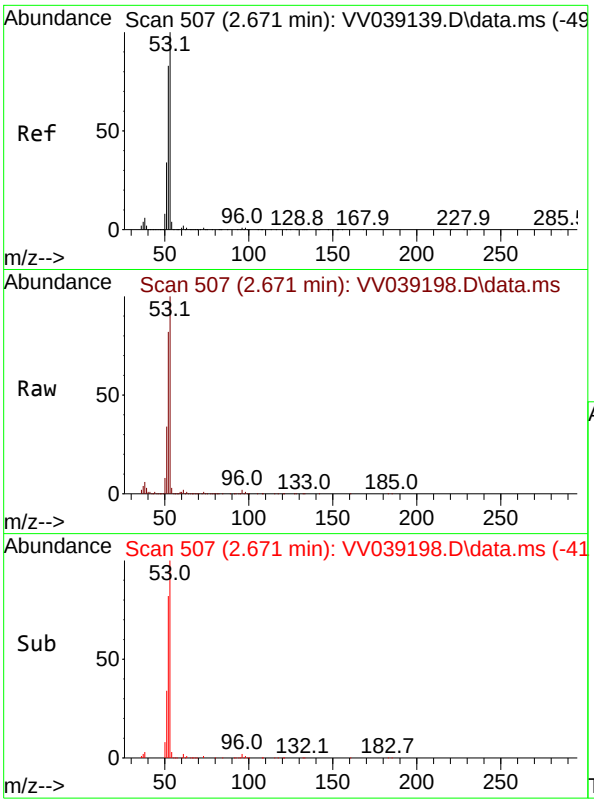




#14
Allyl chloride
Concen: 45.886 ug/l
RT: 2.356 min Scan# 409
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 41 Resp: 702274

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 59.6 | 51.0 | 76.6 |
| 76 | 36.0 | 28.2 | 42.4 |



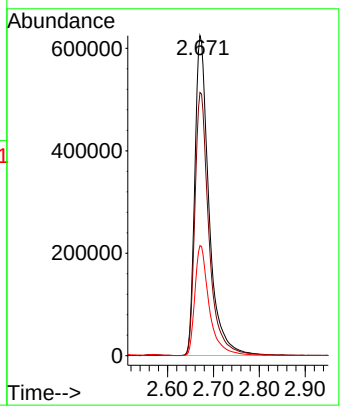


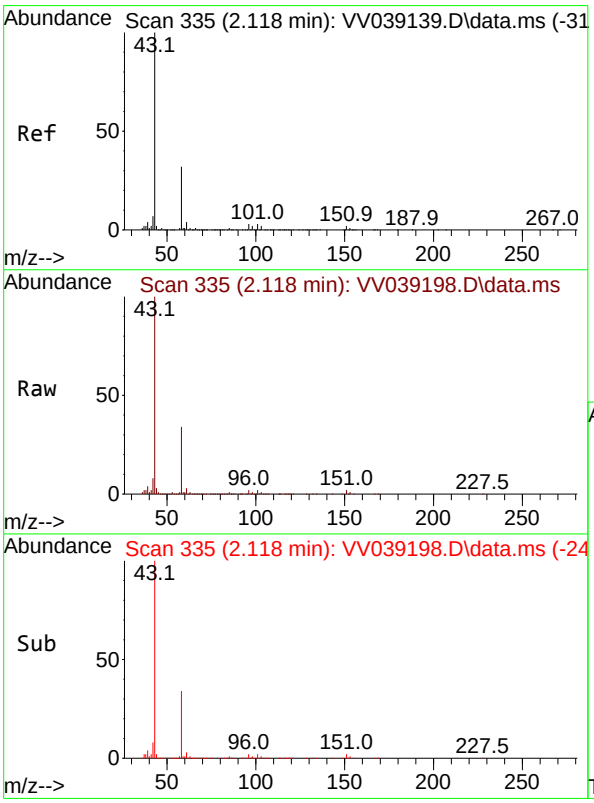

#15
Acrylonitrile
Concen: 241.006 ug/l
RT: 2.671 min Scan# 5
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 53 Resp: 1342967

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.6 | 66.1 | 99.1 |
| 51 | 34.7 | 28.5 | 42.7 |

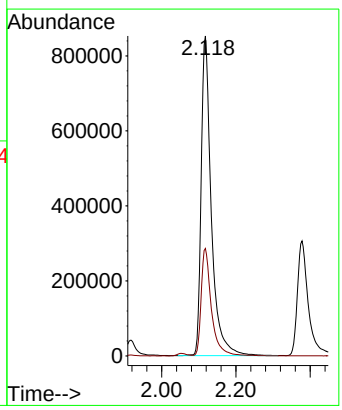


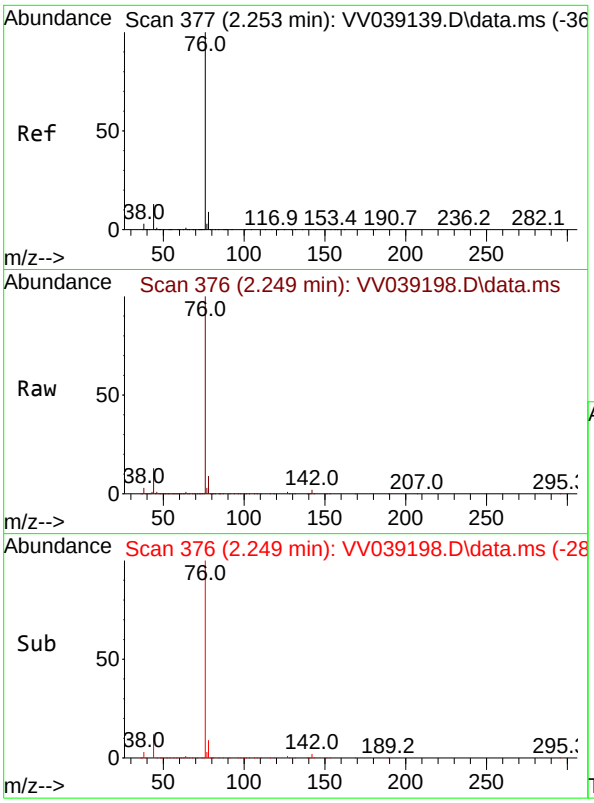




#16
Acetone
Concen: 325.476 ug/l
RT: 2.118 min Scan# 335
Delta R.T. -0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 43 Resp: 1614924

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.6 | 25.8 | 38.6 |



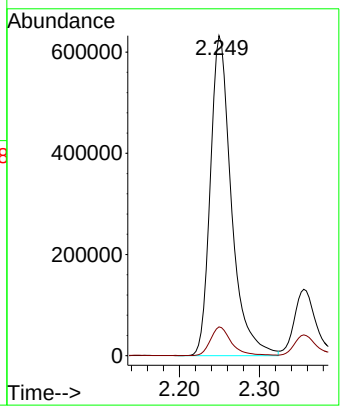


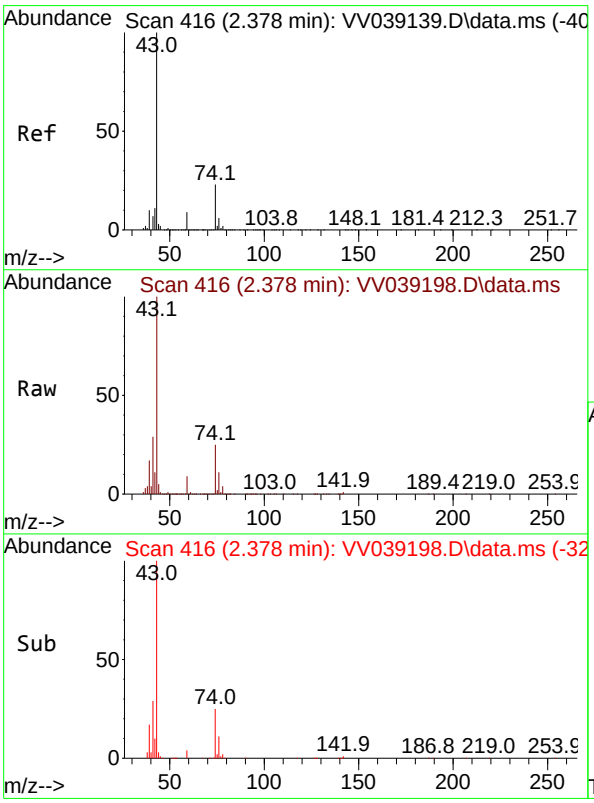

#17
Carbon Disulfide
Concen: 44.250 ug/l
RT: 2.249 min Scan# 3
Delta R.T. -0.003 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 76 Resp: 1159506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.9 | 7.4 | 11.0 |

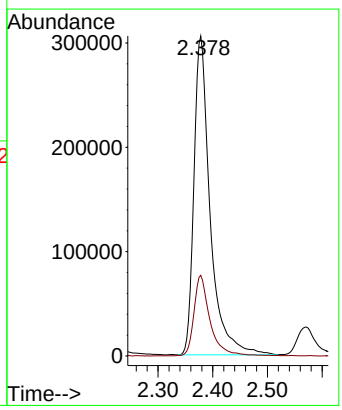


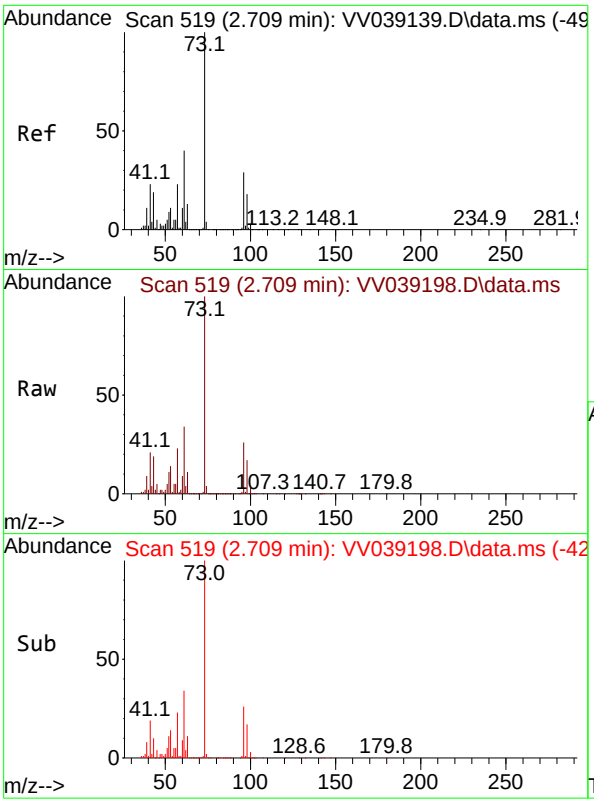




#18
Methyl Acetate
Concen: 51.580 ug/l
RT: 2.378 min Scan# 416
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 43 Resp: 628554

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 25.0 | 18.6 | 27.8 |



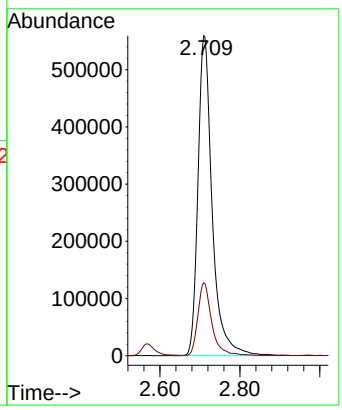


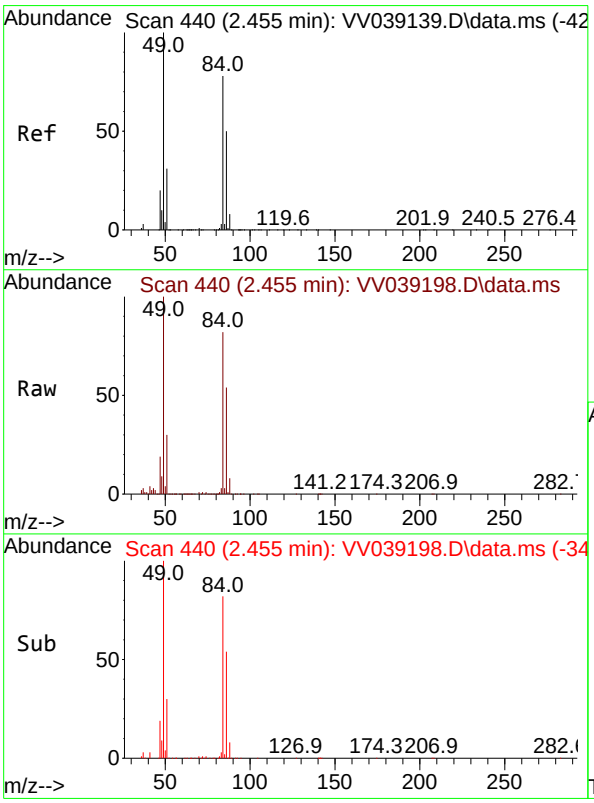

#19
Methyl tert-butyl Ether
Concen: 50.786 ug/l
RT: 2.709 min Scan# 5
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 73 Resp: 1386577

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.7 | 18.2 | 27.4 |

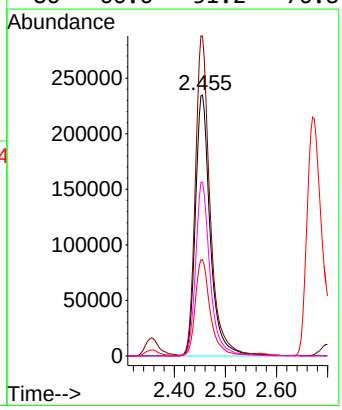


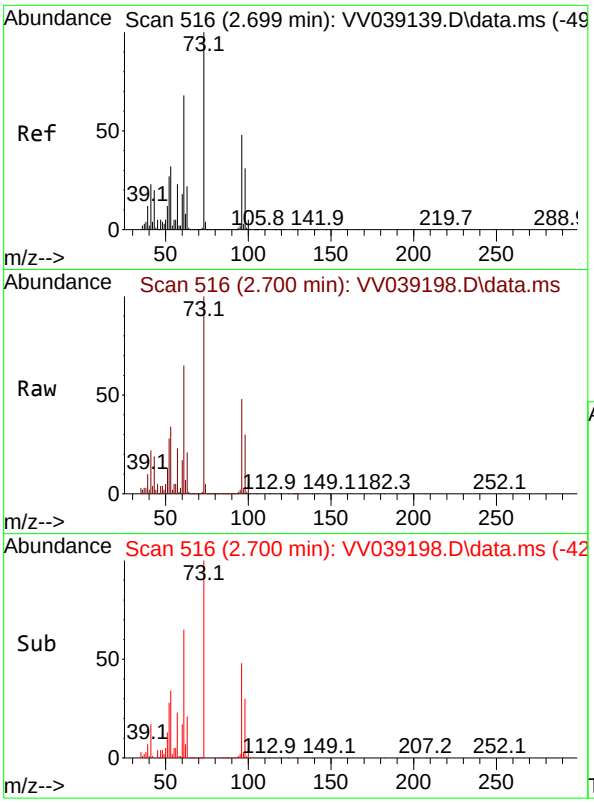




#20
Methylene Chloride
Concen: 53.373 ug/l
RT: 2.455 min Scan# 440
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 84 Resp: 472123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 122.3 | 102.8 | 154.2 |
| 51 | 36.6 | 31.9 | 47.9 |
| 86 | 66.6 | 51.2 | 76.8 |



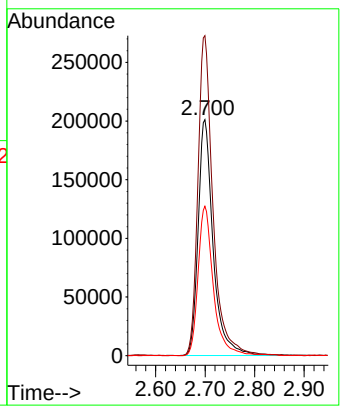


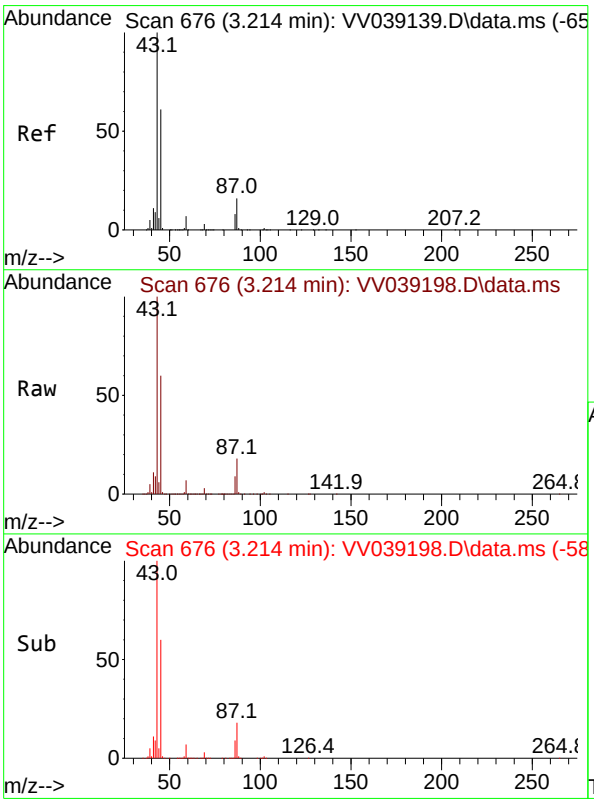

#21
trans-1,2-Dichloroethene
Concen: 46.707 ug/l
RT: 2.700 min Scan# 5
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 96 Resp: 426028

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 135.6 | 112.8 | 169.2 |
| 98 | 63.4 | 51.1 | 76.7 |

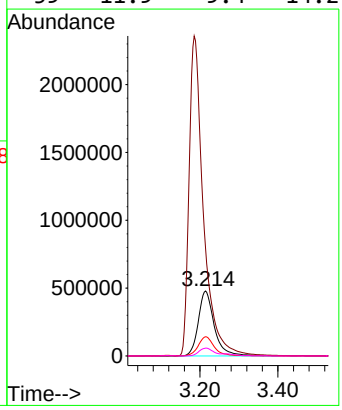


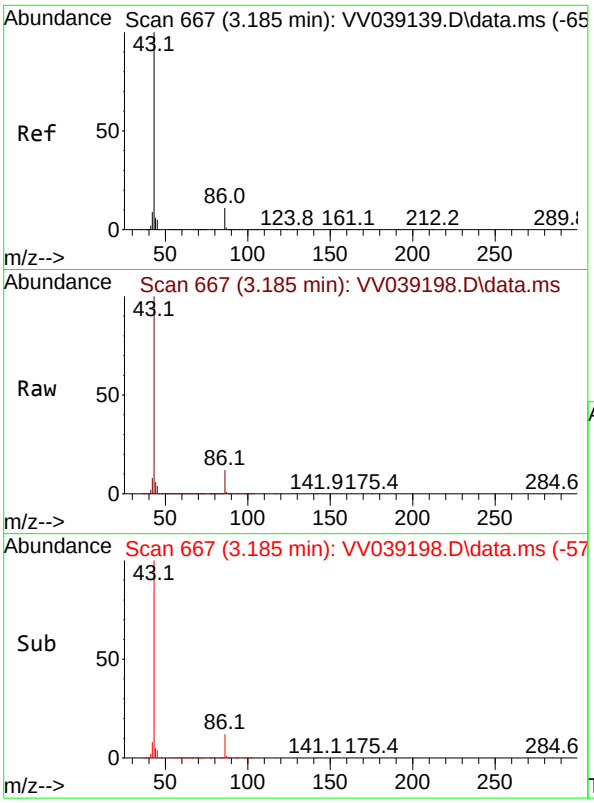




#22
Diisopropyl ether
Concen: 46.500 ug/l
RT: 3.214 min Scan# 676
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 45 Resp: 1361630

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 165.8 | 130.9 | 196.3 |
| 87 | 29.5 | 21.1 | 31.7 |
| 59 | 11.9 | 9.4 | 14.2 |



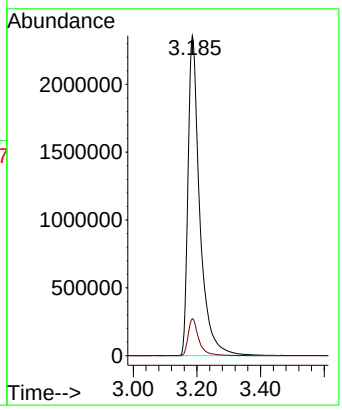


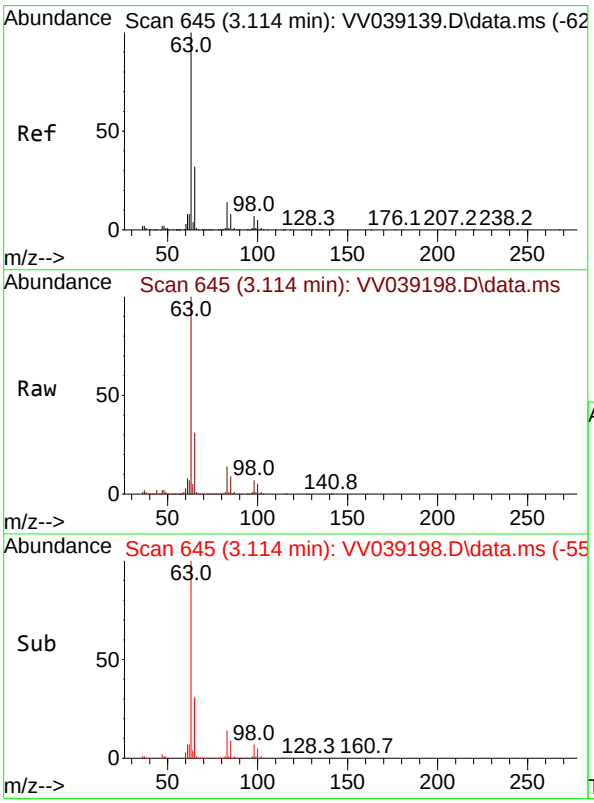

#23
Vinyl Acetate
Concen: 236.375 ug/l
RT: 3.185 min Scan# 6
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 6054952

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.5 | 8.4 | 12.6 |

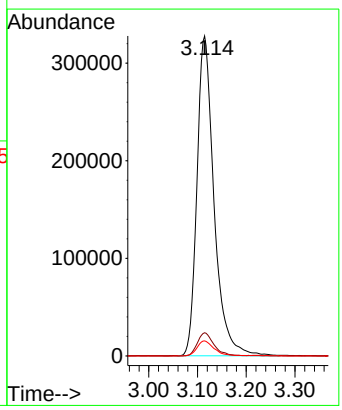


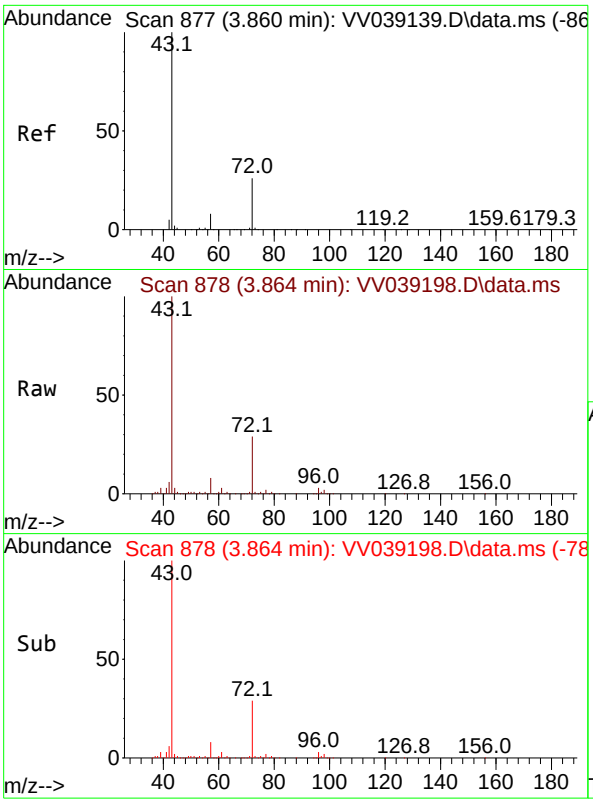




#24
1,1-Dichloroethane
Concen: 44.562 ug/l
RT: 3.114 min Scan# 645
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 63 Resp: 797976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.3 | 3.4 | 10.2 |
| 100 | 4.7 | 2.2 | 6.6 |



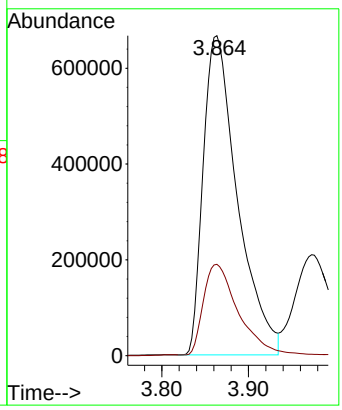


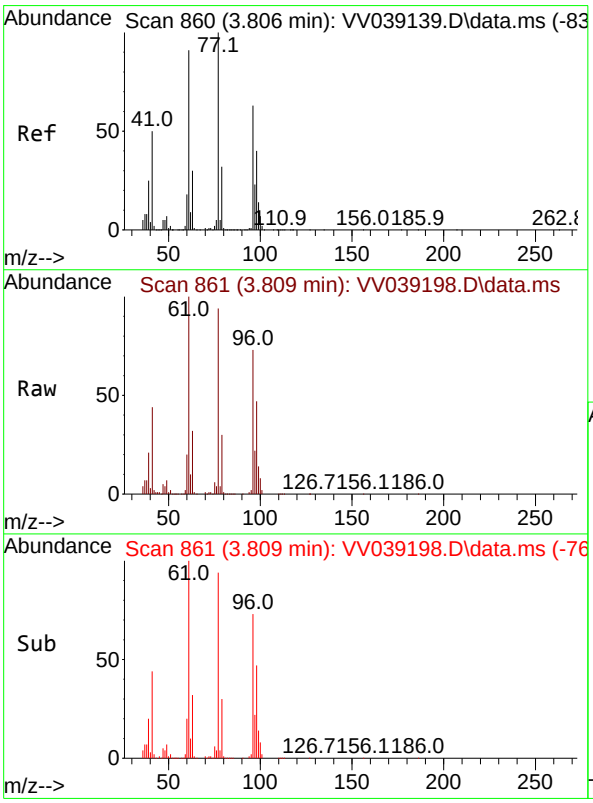

#25
2-Butanone
Concen: 278.360 ug/l
RT: 3.864 min Scan# 8
Delta R.T. 0.003 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 1833262

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 28.3 | 21.0 | 31.6 |

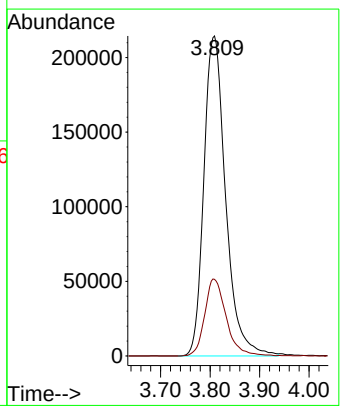


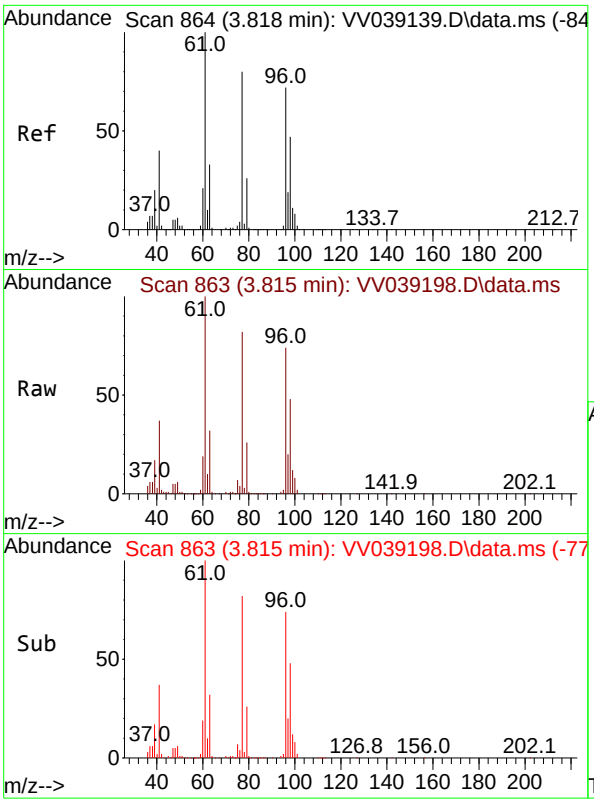




#26
2,2-Dichloropropane
Concen: 41.232 ug/l
RT: 3.809 min Scan# 861
Delta R.T. 0.003 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 77 Resp: 654670

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.7 | 11.6 | 34.7 |



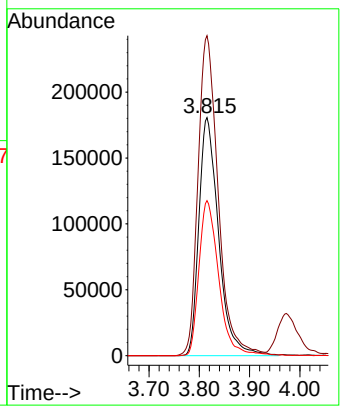


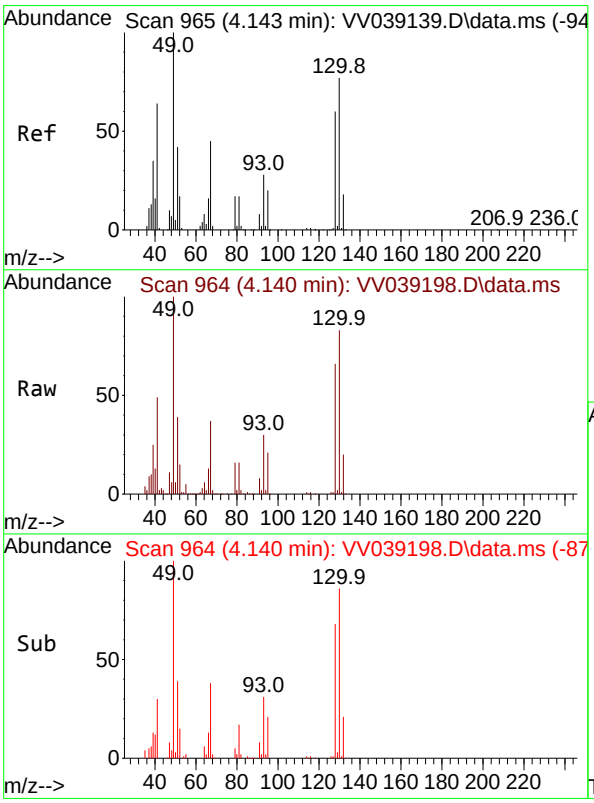

#27
cis-1,2-Dichloroethene
Concen: 48.927 ug/l
RT: 3.815 min Scan# 8
Delta R.T. -0.003 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 96 Resp: 492190

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 137.7 | 0.0 | 286.4 |
| 98 | 65.2 | 0.0 | 126.6 |

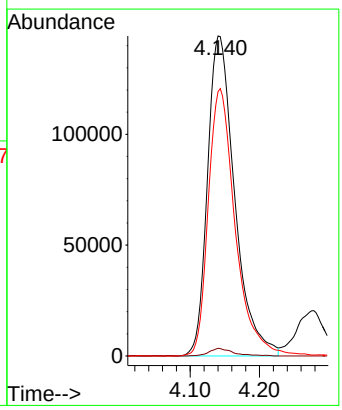


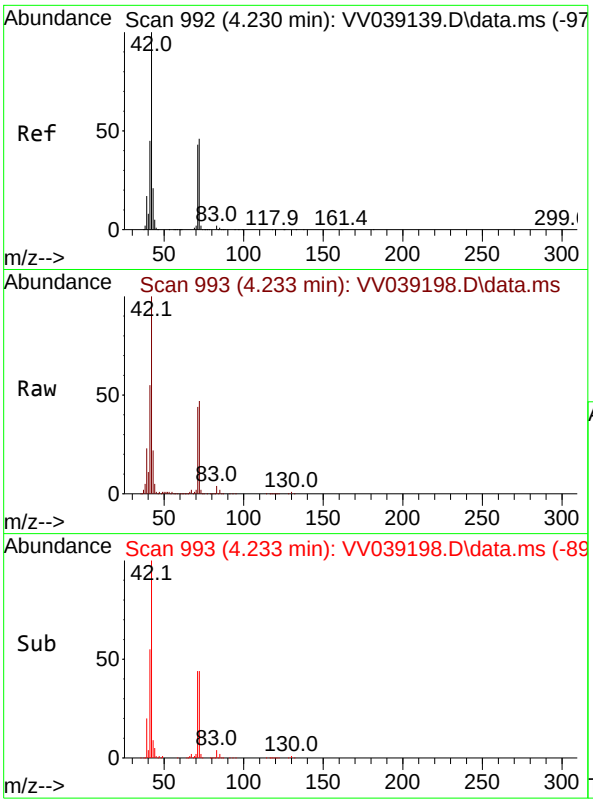




#28
Bromochloromethane
Concen: 49.825 ug/l
RT: 4.140 min Scan# 964
Delta R.T. -0.003 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 49 Resp: 393882

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.1 | 0.0 | 4.2 |
| 130 | 83.0 | 60.2 | 90.2 |



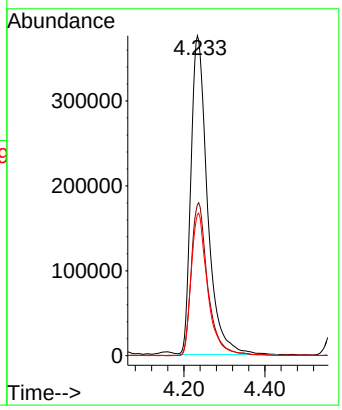


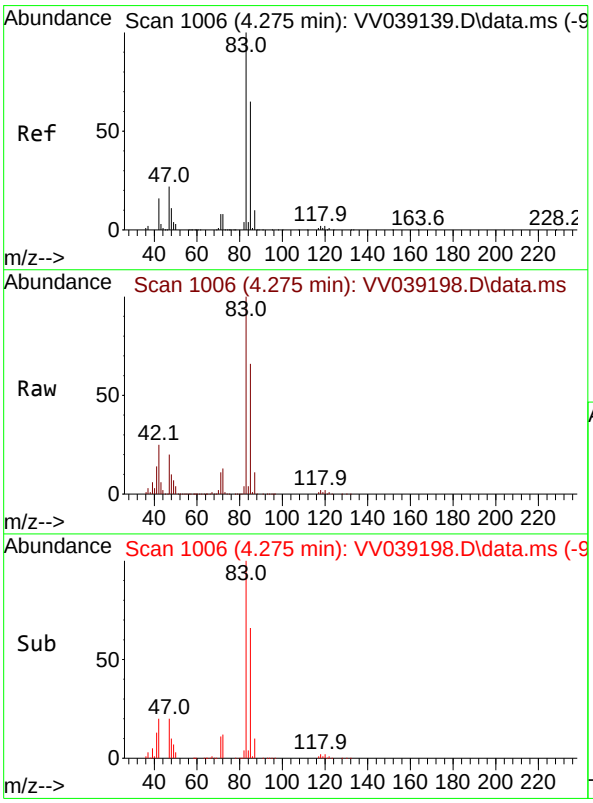

#29
Tetrahydrofuran
Concen: 257.902 ug/l
RT: 4.233 min Scan# 9
Delta R.T. 0.003 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 42 Resp: 1063152

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 47.6 | 36.3 | 54.5 |
| 71 | 44.2 | 34.3 | 51.5 |

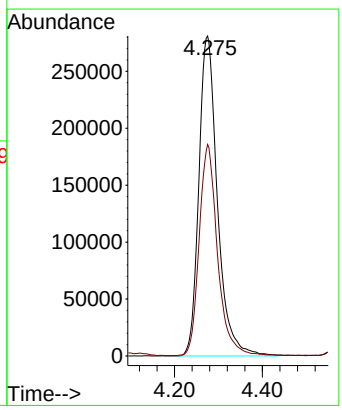


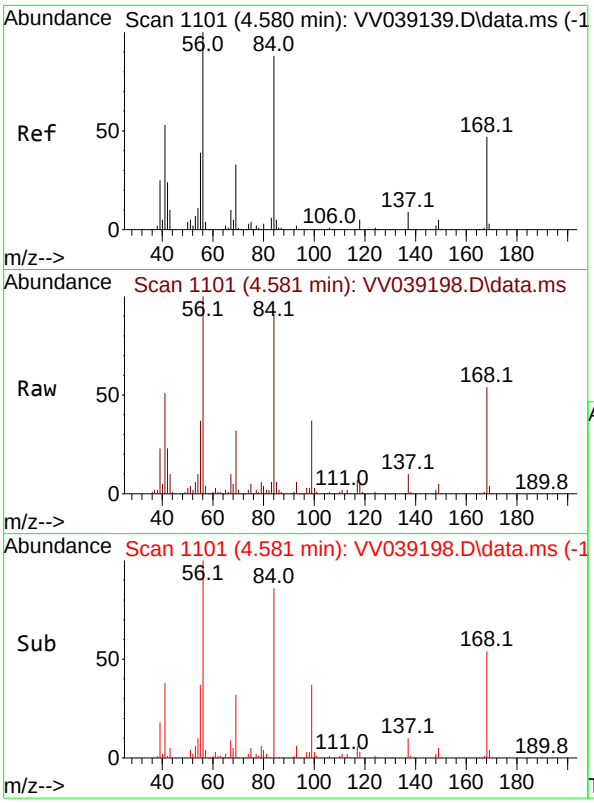




#30
Chloroform
Concen: 44.235 ug/l
RT: 4.275 min Scan# 1006
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 83 Resp: 827141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.9 | 52.1 | 78.1 |



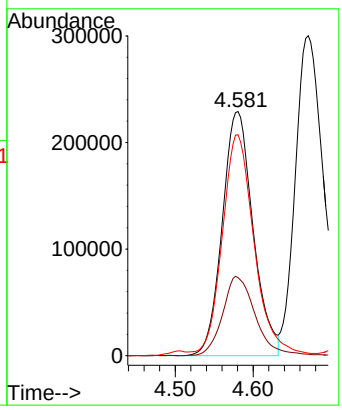


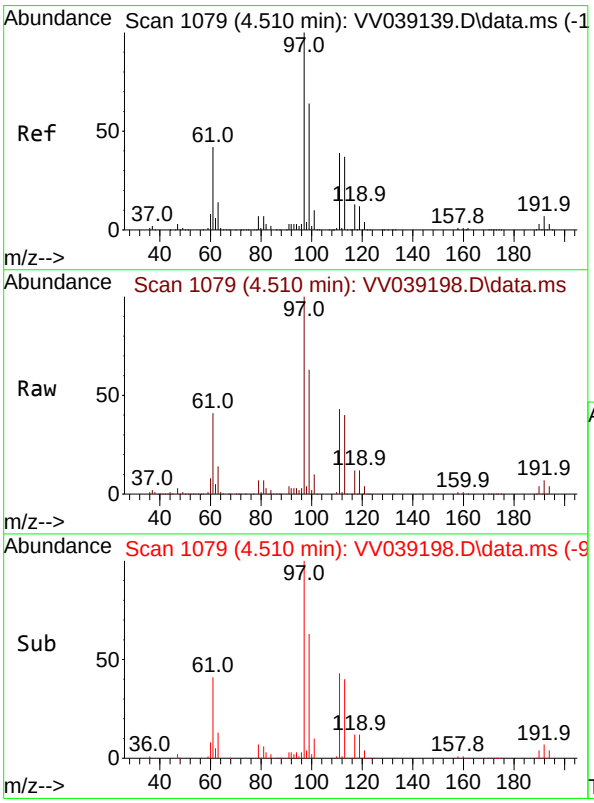

#31
Cyclohexane
Concen: 42.889 ug/l
RT: 4.581 min Scan# 11
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 56 Resp: 629144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 32.0 | 26.2 | 39.2 |
| 84 | 88.6 | 70.3 | 105.5 |

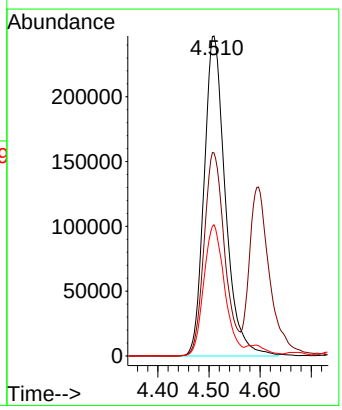


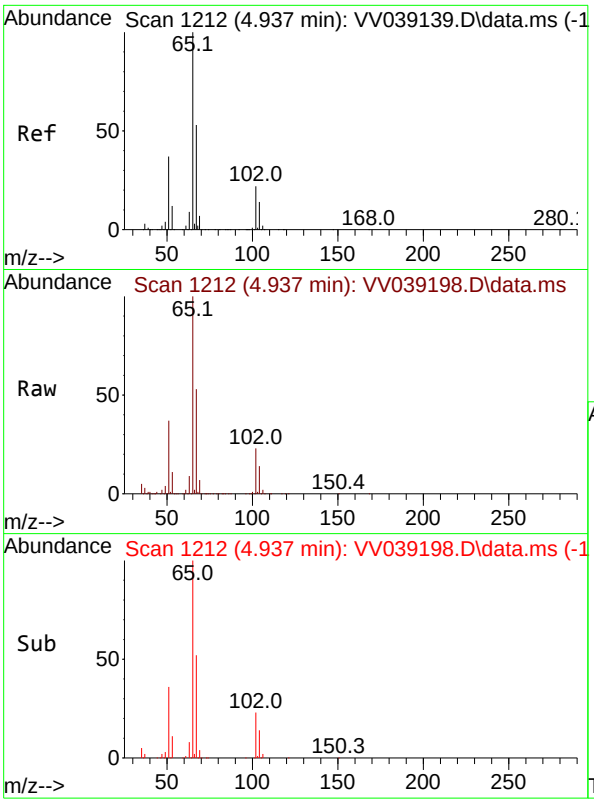




#32
1,1,1-Trichloroethane
Concen: 44.086 ug/l
RT: 4.510 min Scan# 1079
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 97 Resp: 713673

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 61.5 | 49.6 | 74.4 |
| 61 | 40.2 | 34.5 | 51.7 |



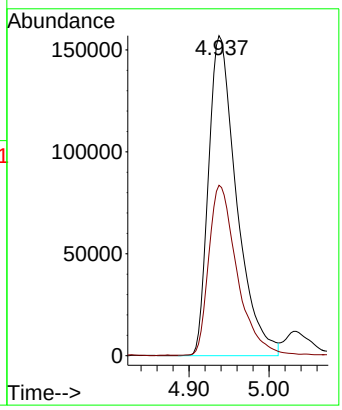


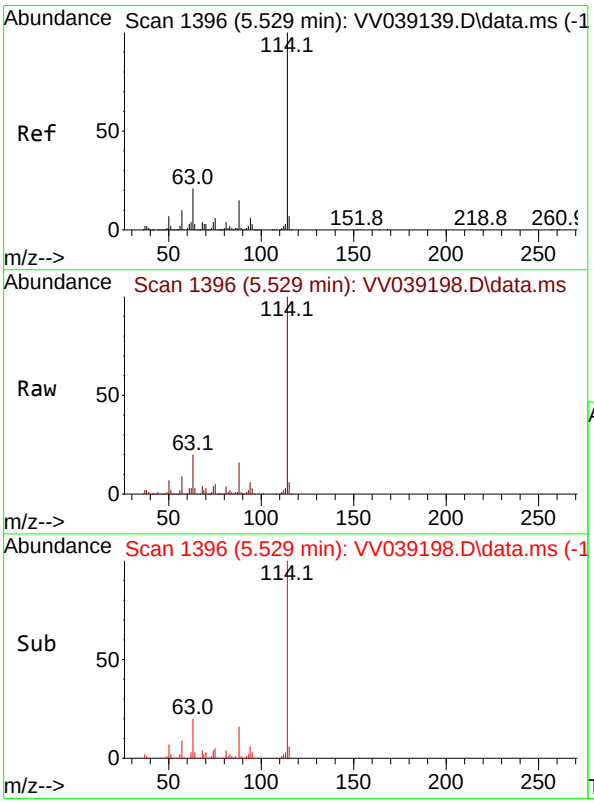

#33
1,2-Dichloroethane-d4
Concen: 46.473 ug/l
RT: 4.937 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 65 Resp: 382222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.6 | 0.0 | 107.0 |

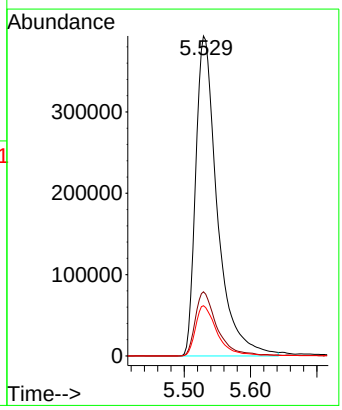


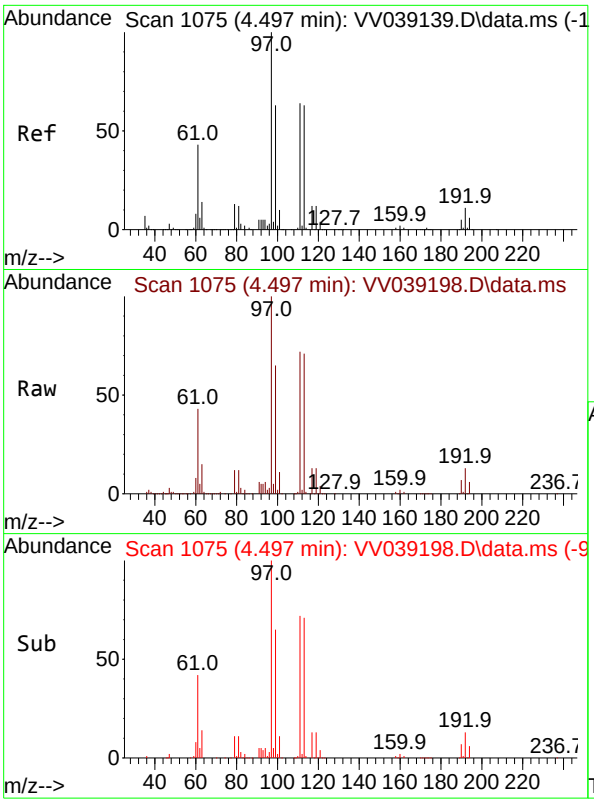




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.529 min Scan# 1396
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion:114 Resp: 890856

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.1 | 0.0 | 42.6 |
| 88 | 15.7 | 0.0 | 30.8 |



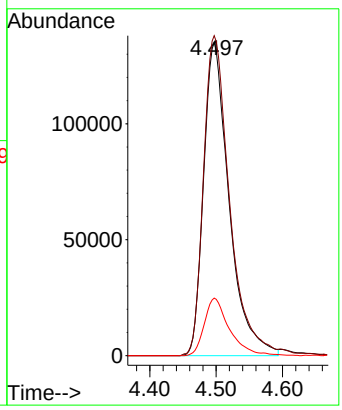


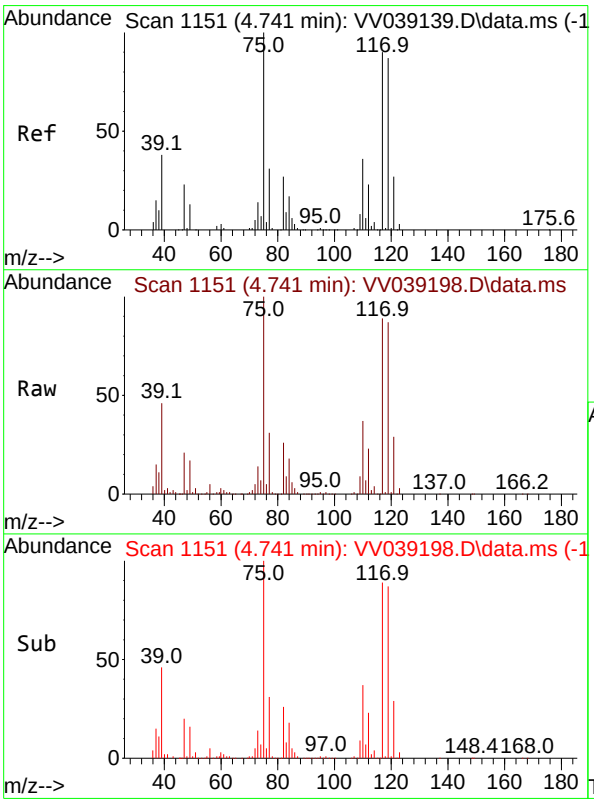

#35
Dibromofluoromethane
Concen: 50.482 ug/l
RT: 4.497 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:113 Resp: 361542

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.9 | 82.4 | 123.6 |
| 192 | 18.2 | 13.8 | 20.8 |

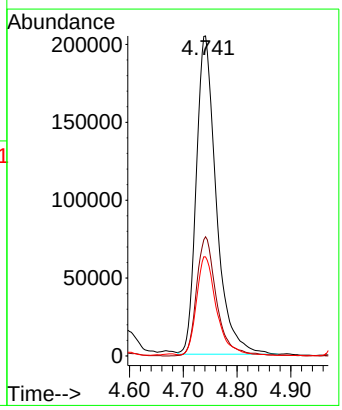


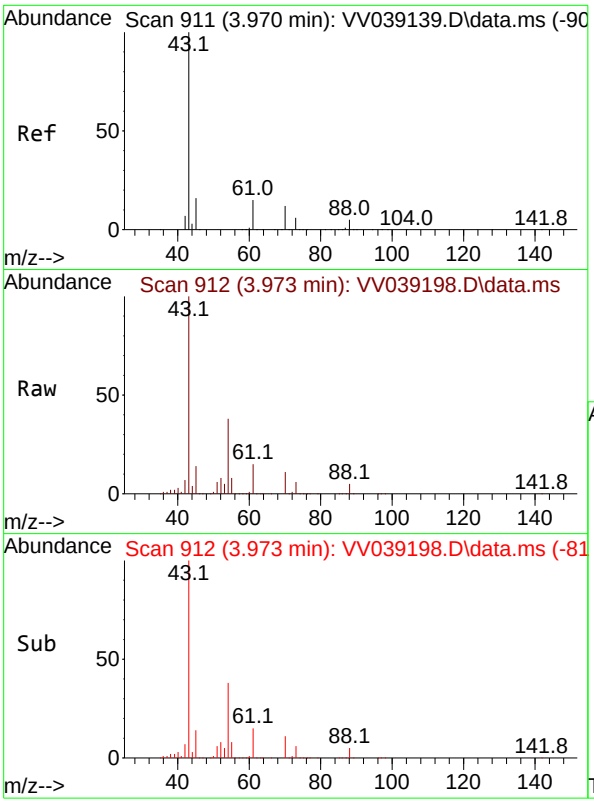




#36
1,1-Dichloropropene
Concen: 48.754 ug/l
RT: 4.741 min Scan# 1151
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 75 Resp: 527907

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 37.7 | 18.1 | 54.1 |
| 77 | 31.2 | 24.8 | 37.2 |



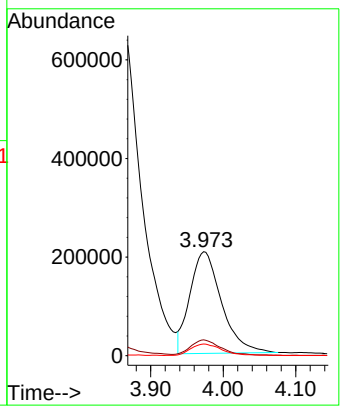


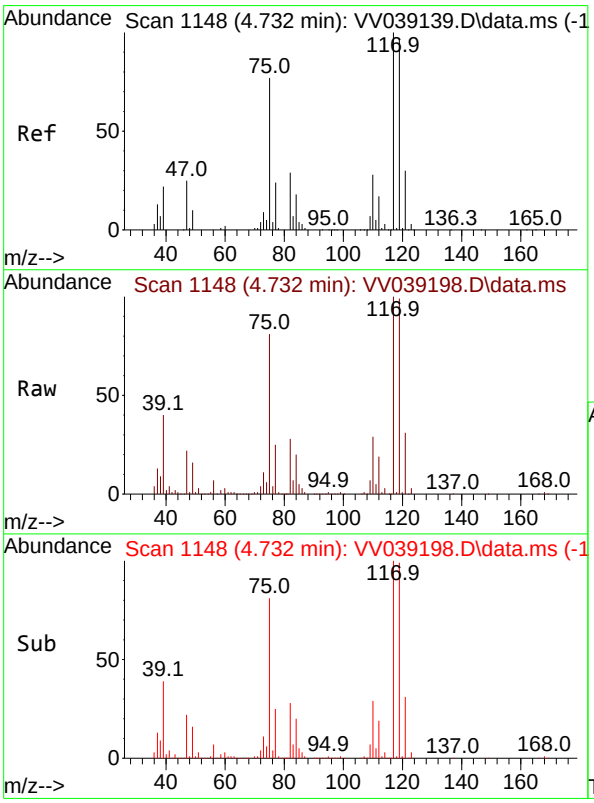

#37
Ethyl Acetate
Concen: 47.654 ug/l
RT: 3.973 min Scan# 91
Delta R.T. 0.003 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 626124

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.8 | 10.3 | 15.5 |
| 70 | 10.7 | 8.0 | 12.0 |

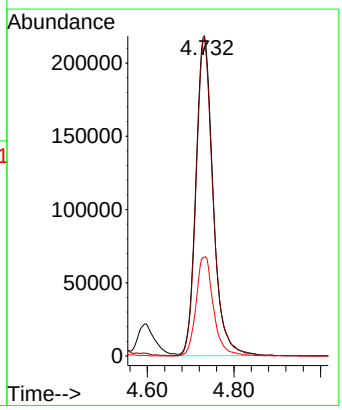


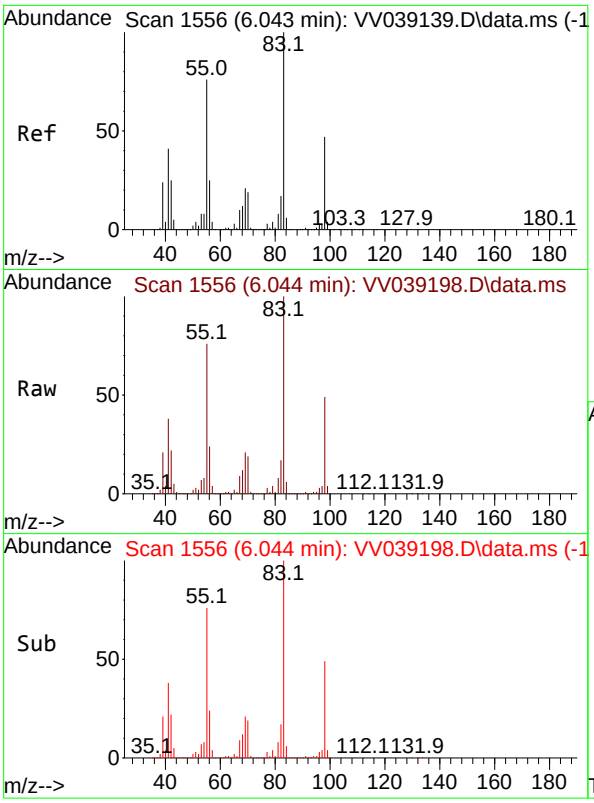




#38
Carbon Tetrachloride
Concen: 45.581 ug/l
RT: 4.732 min Scan# 1148
Delta R.T. -0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion:117 Resp: 603195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 99.1 | 77.2 | 115.8 |
| 121 | 30.9 | 24.2 | 36.2 |



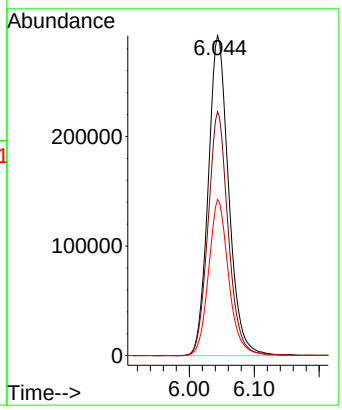


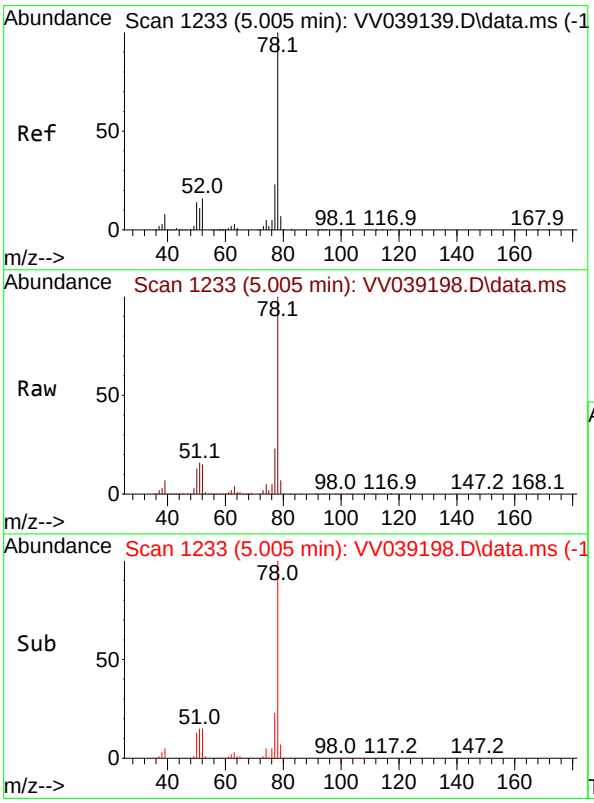

#39
Methylcyclohexane
Concen: 48.939 ug/l
RT: 6.044 min Scan# 1
Delta R.T. 0.001 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 83 Resp: 639925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 76.2 | 60.5 | 90.7 |
| 98 | 48.8 | 37.8 | 56.6 |

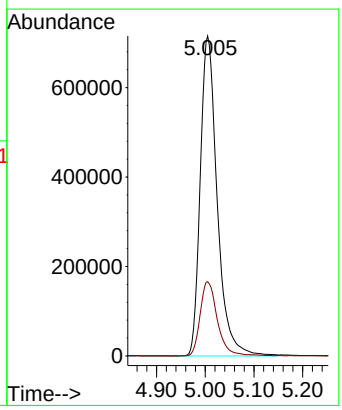


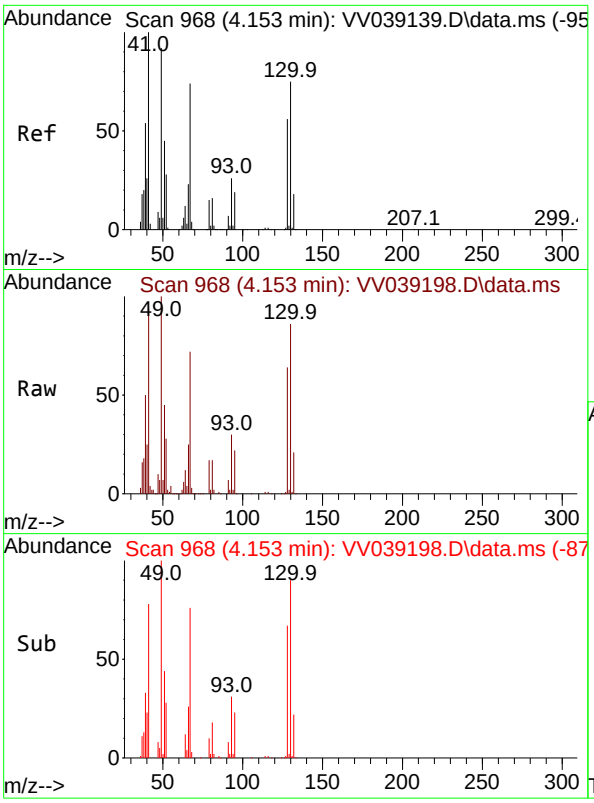




#40
Benzene
Concen: 48.985 ug/l
RT: 5.005 min Scan# 1233
Delta R.T. -0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 78 Resp: 1727192

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.2 | 18.7 | 28.1 |



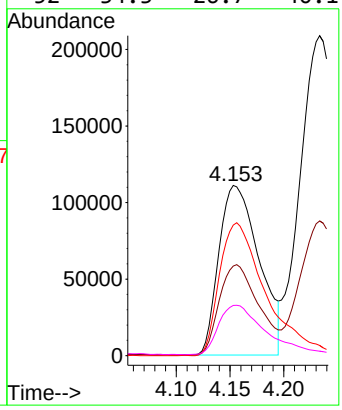


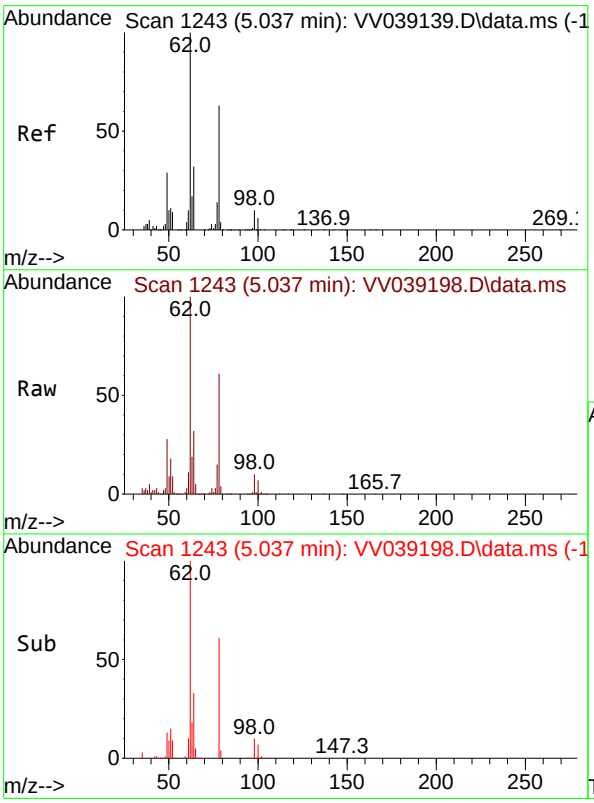

#41
Methacrylonitrile
Concen: 48.677 ug/l
RT: 4.153 min Scan# 9
Delta R.T. -0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 41 Resp: 288855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 52.7 | 42.2 | 63.2 |
| 67 | 92.0 | 67.9 | 101.9 |
| 52 | 34.3 | 26.7 | 40.1 |

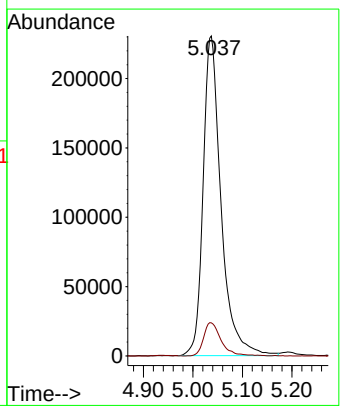


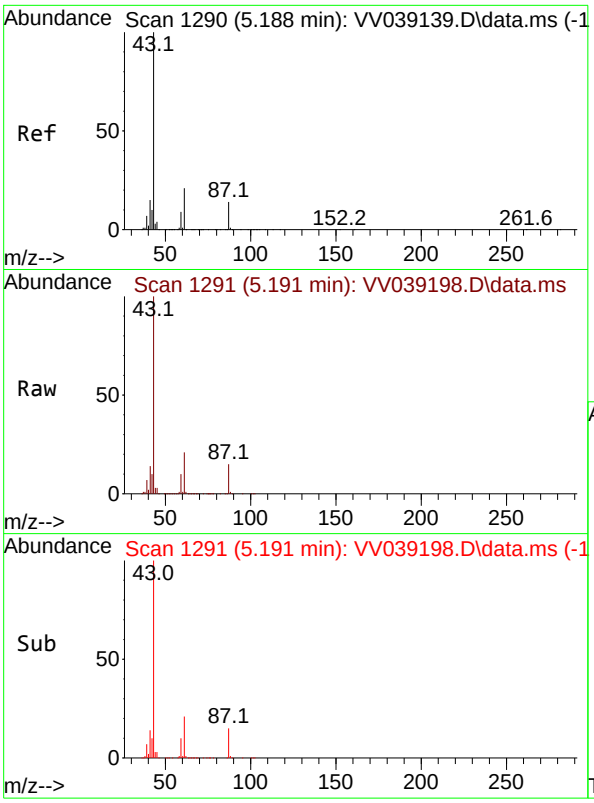




#42
1,2-Dichloroethane
Concen: 47.000 ug/l
RT: 5.037 min Scan# 1243
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 62 Resp: 580659

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.2 | 0.0 | 19.2 |



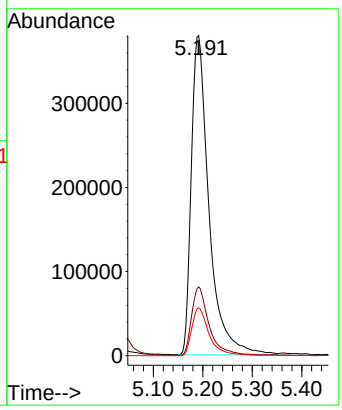


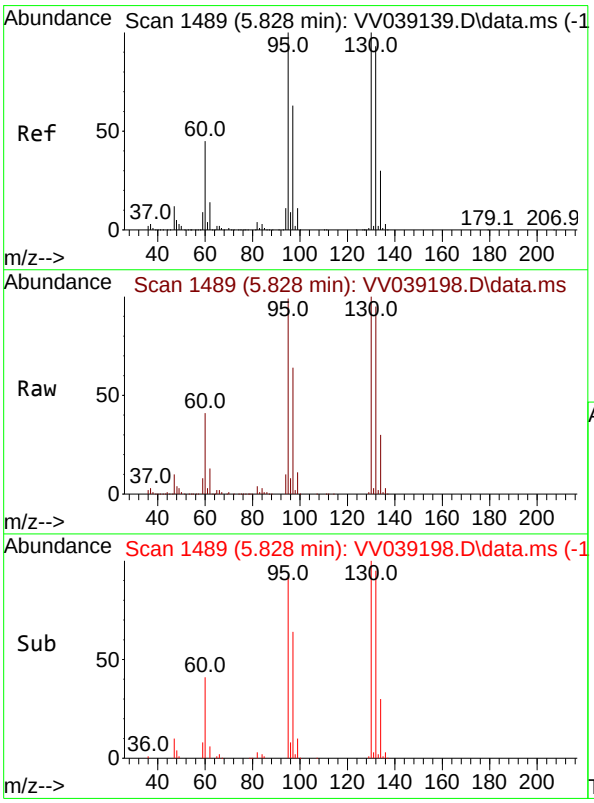

#43
Isopropyl Acetate
Concen: 52.745 ug/l
RT: 5.191 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 944896

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 21.1 | 15.9 | 23.9 |
| 87 | 14.7 | 11.0 | 16.6 |

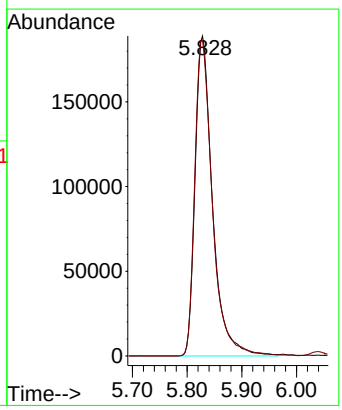


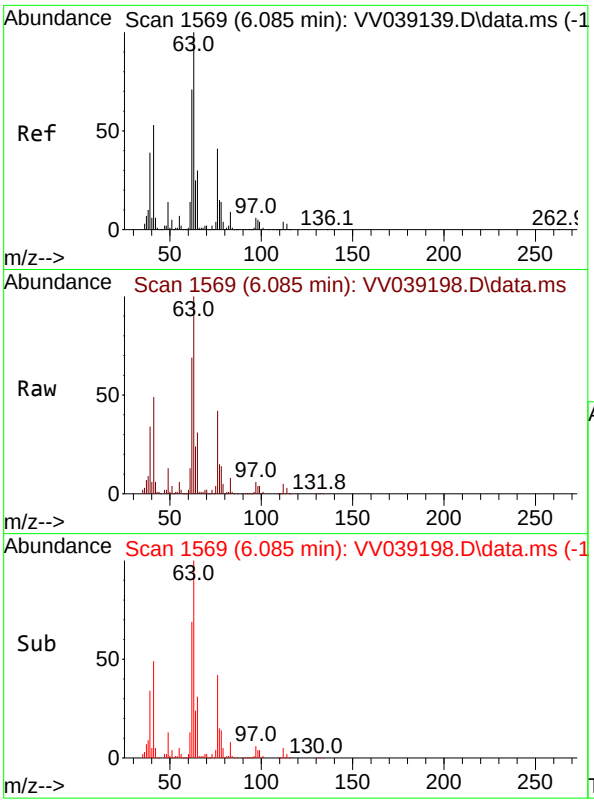




#44
Trichloroethene
Concen: 51.312 ug/l
RT: 5.828 min Scan# 1489
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion:130 Resp: 417489

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 98.7 | 0.0 | 199.2 |



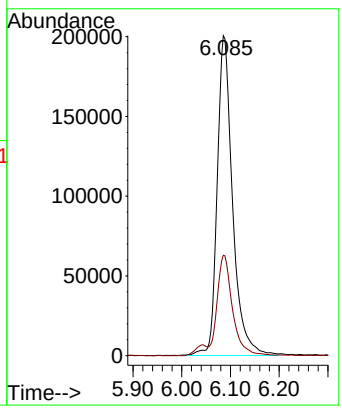


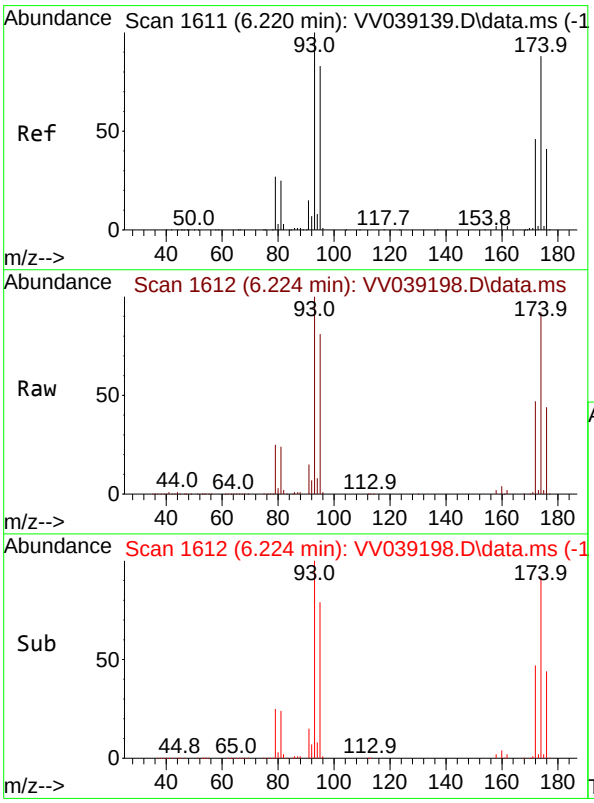

#45
1,2-Dichloropropane
Concen: 50.116 ug/l
RT: 6.085 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 63 Resp: 439219

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.4 | 23.7 | 35.5 |

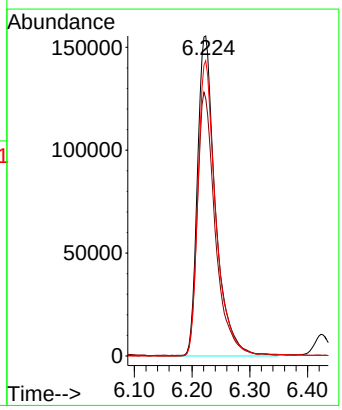


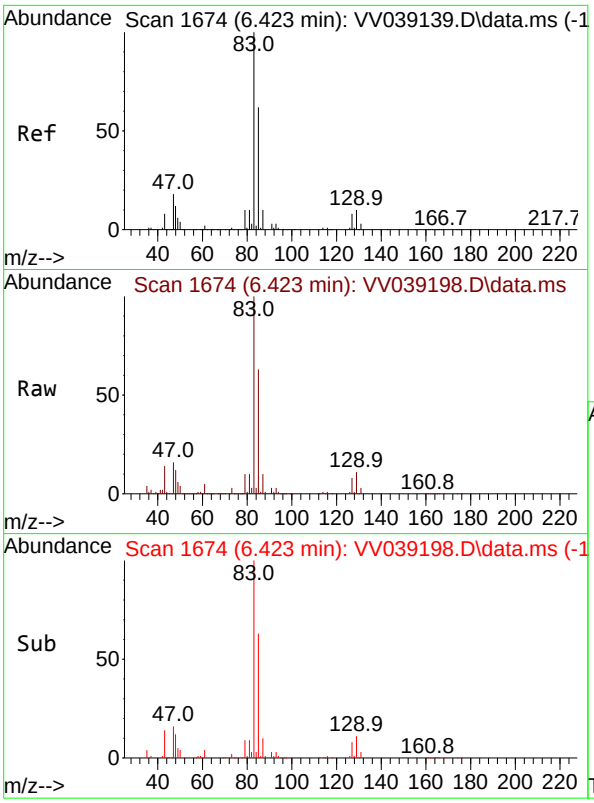




#46
Dibromomethane
Concen: 50.160 ug/l
RT: 6.224 min Scan# 1612
Delta R.T. 0.003 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 93 Resp: 336464

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 81.2 | 65.5 | 98.3 |
| 174 | 91.5 | 69.0 | 103.4 |



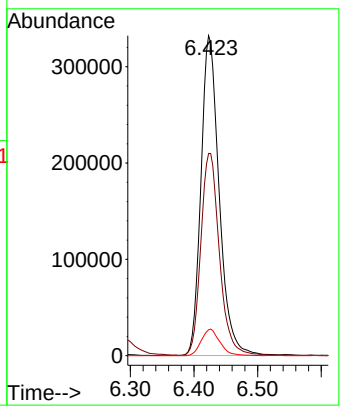


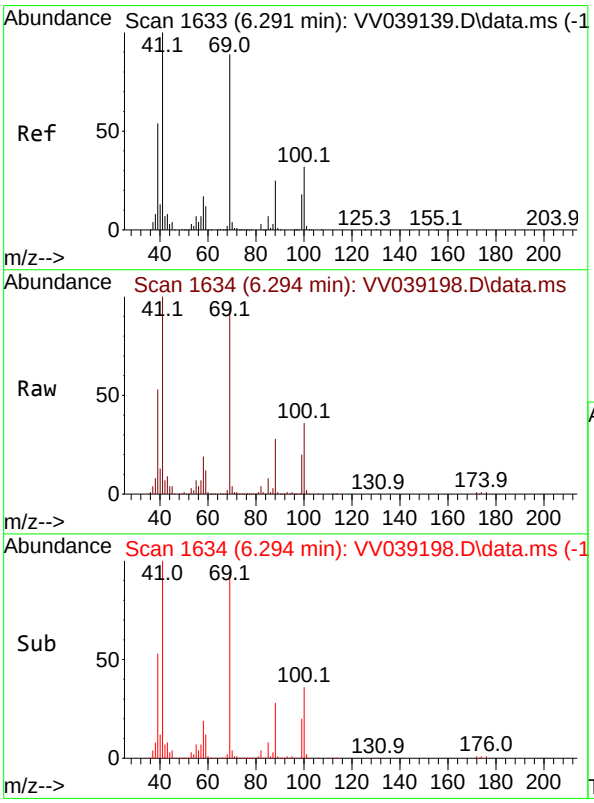

#47
Bromodichloromethane
Concen: 47.672 ug/l
RT: 6.423 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 83 Resp: 661080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.0 | 49.7 | 74.5 |
| 127 | 8.1 | 6.6 | 9.8 |

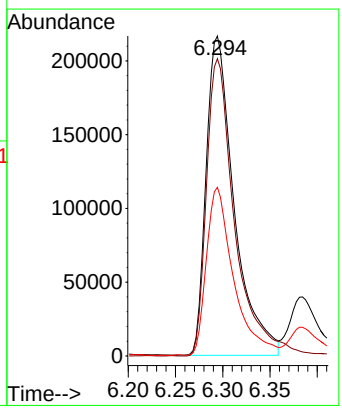


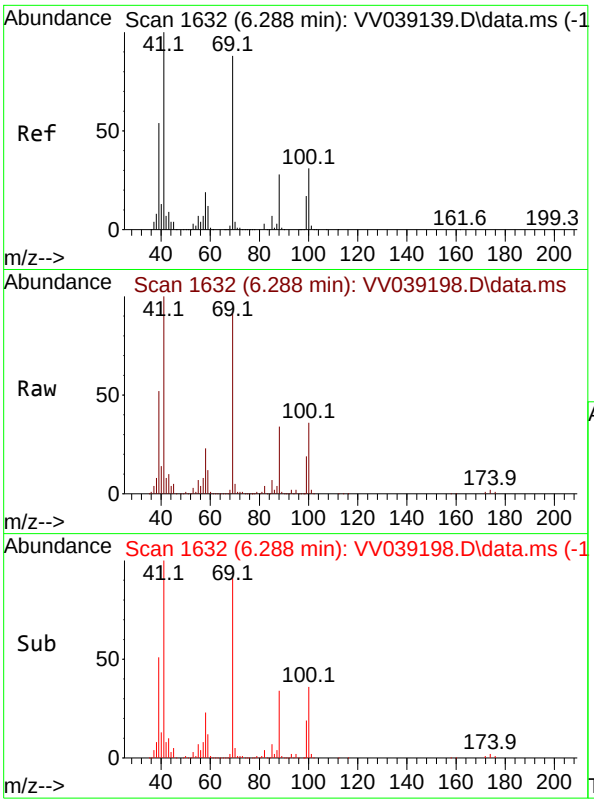




#48
Methyl methacrylate
Concen: 54.936 ug/l
RT: 6.294 min Scan# 1634
Delta R.T. 0.003 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 41 Resp: 446114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 94.8 | 72.4 | 108.6 |
| 39 | 50.8 | 42.5 | 63.7 |



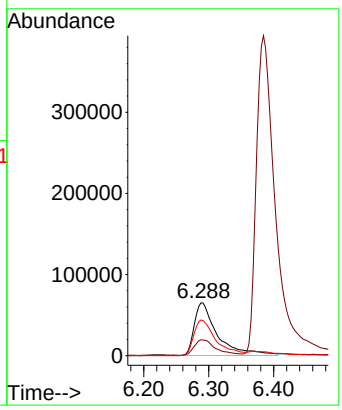


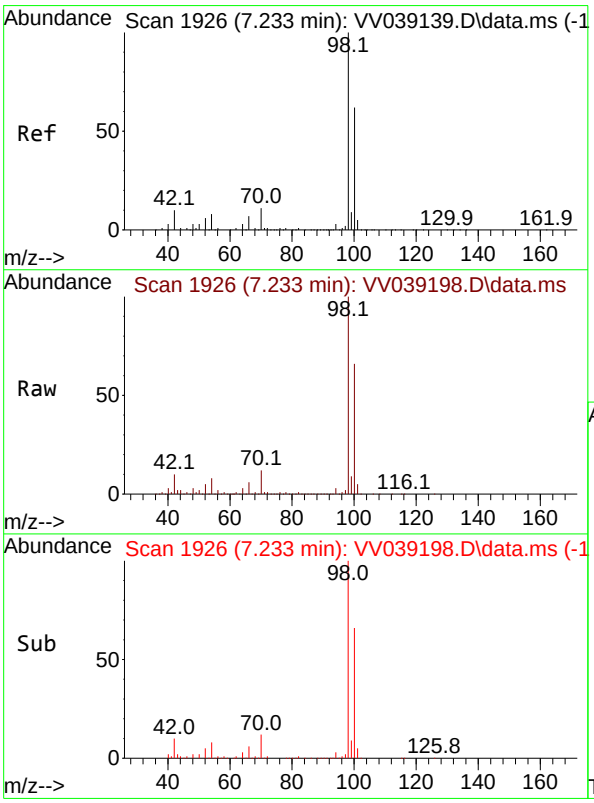

#49
1,4-Dioxane
Concen: 1229.438 ug/l
RT: 6.288 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 88 Resp: 161118

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 27.4 | 25.1 | 37.7 |
| 58 | 65.2 | 53.6 | 80.4 |

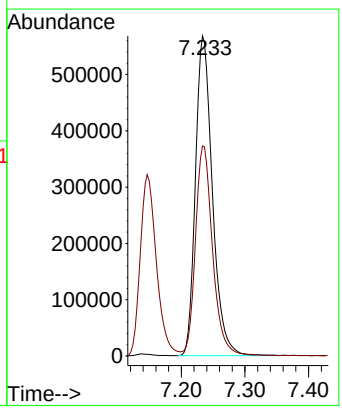


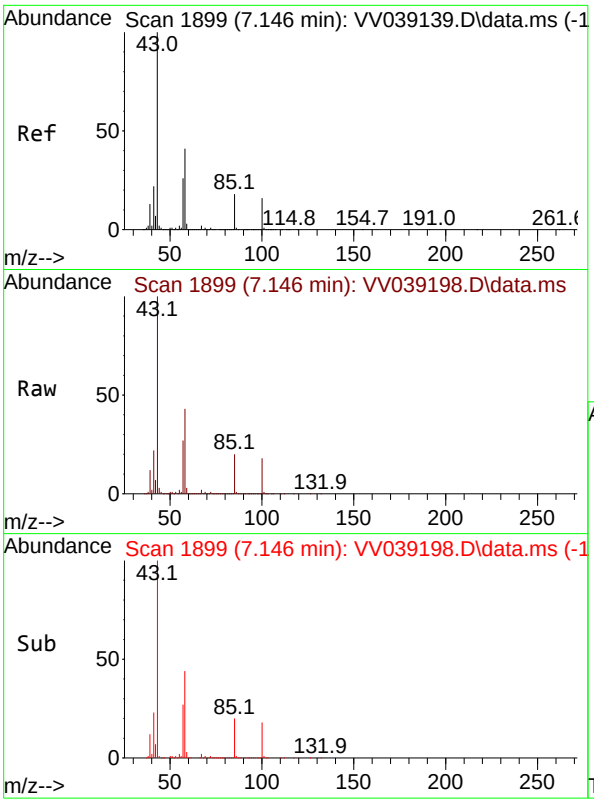




#50
Toluene-d8
Concen: 50.021 ug/l
RT: 7.233 min Scan# 1926
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 98 Resp: 1052144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.2 | 52.2 | 78.2 |



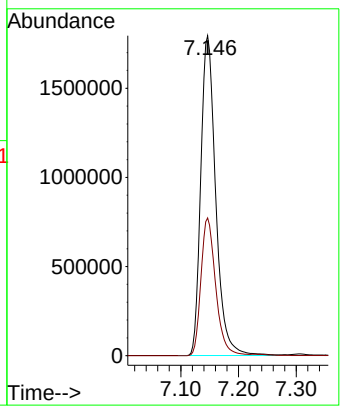


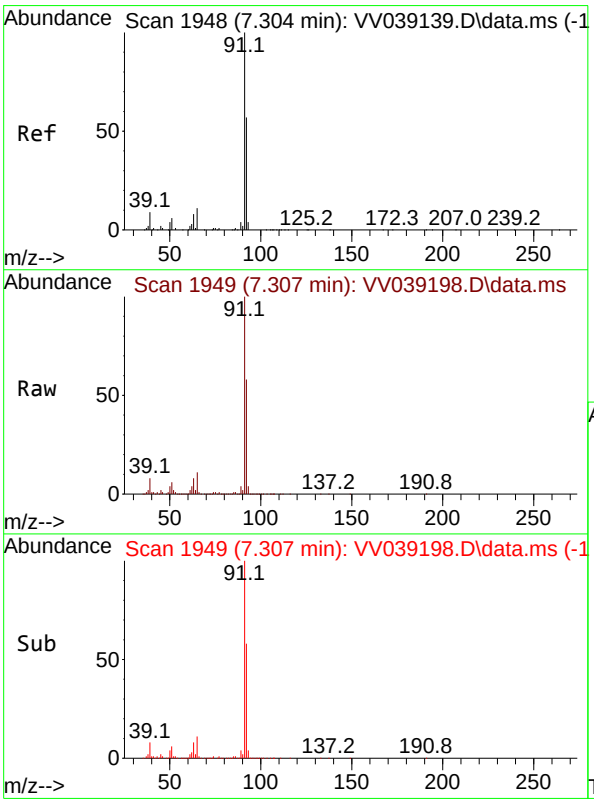

#51
4-Methyl-2-Pentanone
Concen: 273.983 ug/l
RT: 7.146 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 3229046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 42.4 | 32.3 | 48.5 |

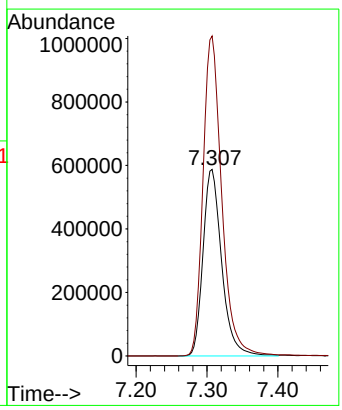


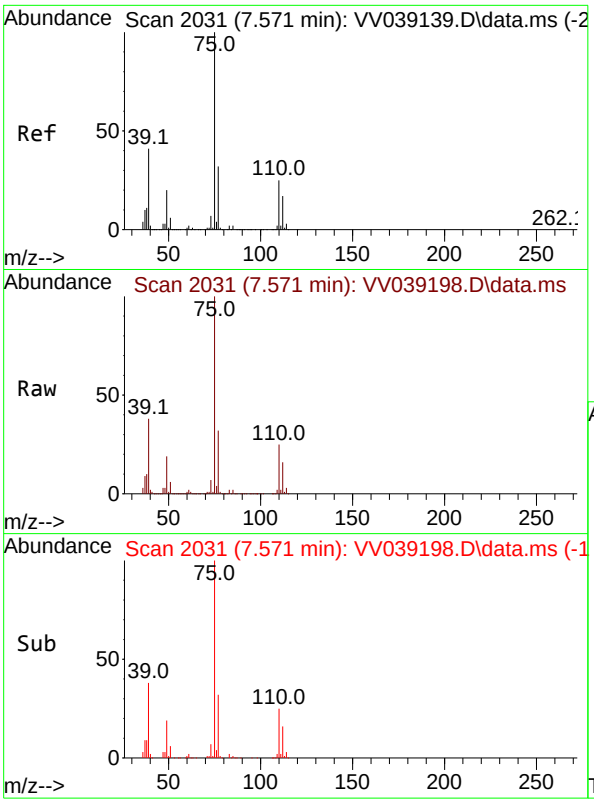




#52
Toluene
Concen: 52.600 ug/l
RT: 7.307 min Scan# 1949
Delta R.T. 0.003 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 92 Resp: 1075327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 171.9 | 139.2 | 208.8 |



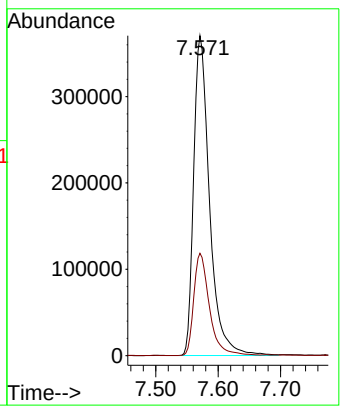


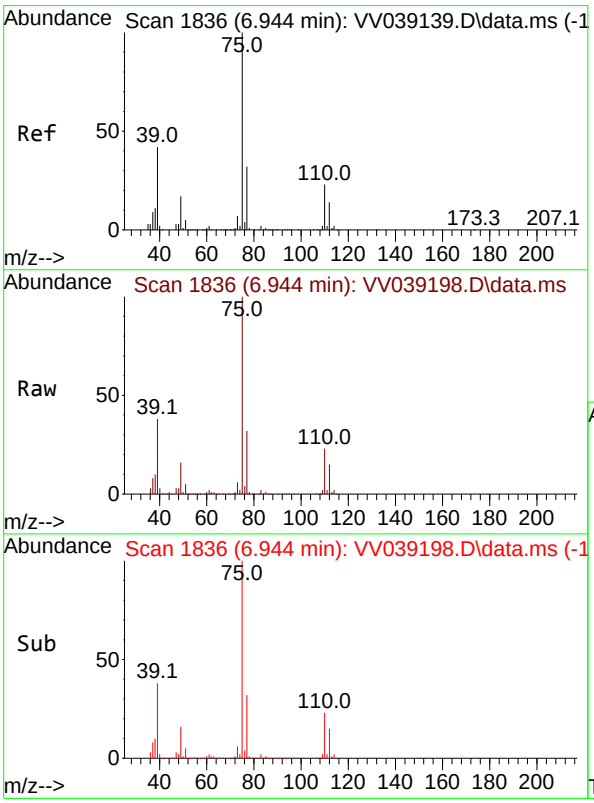

#53
t-1,3-Dichloropropene
Concen: 54.120 ug/l
RT: 7.571 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 75 Resp: 654044

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.9 | 25.9 | 38.9 |

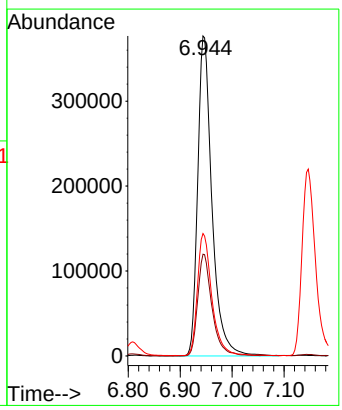


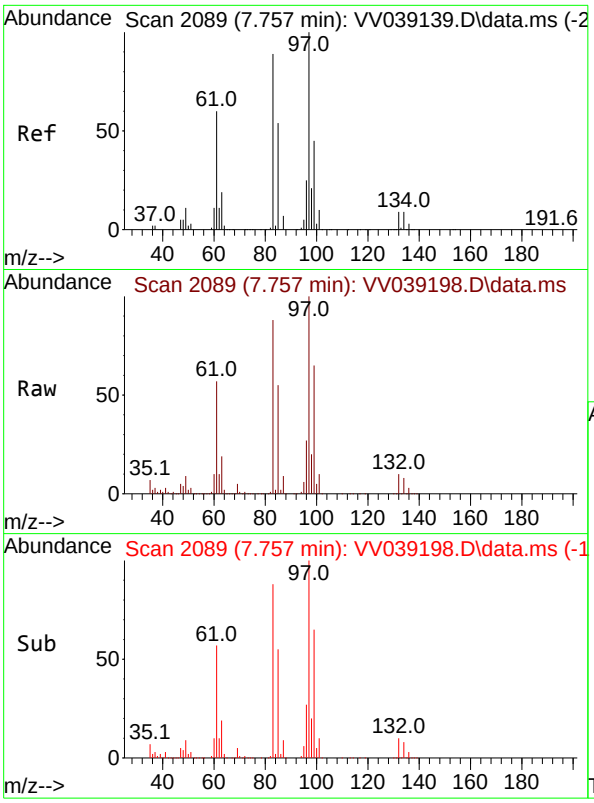




#54
cis-1,3-Dichloropropene
Concen: 53.795 ug/l
RT: 6.944 min Scan# 1836
Delta R.T. -0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 75 Resp: 717693

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.7 | 25.5 | 38.3 |
| 39 | 38.2 | 33.8 | 50.6 |



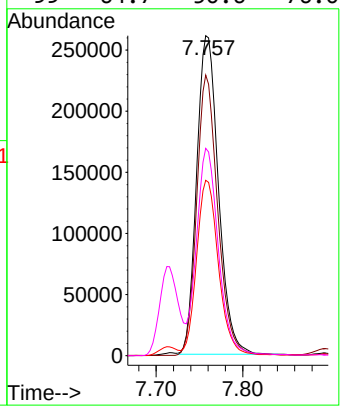


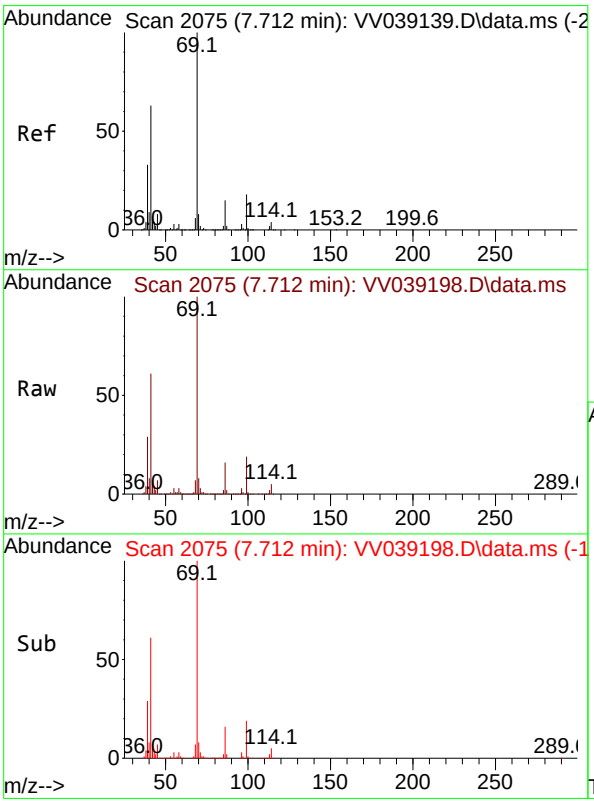

#55
1,1,2-Trichloroethane
Concen: 49.741 ug/l
RT: 7.757 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 97 Resp: 455956

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 87.8 | 71.1 | 106.7 |
| 85 | 54.8 | 44.6 | 67.0 |
| 99 | 64.7 | 50.6 | 76.0 |

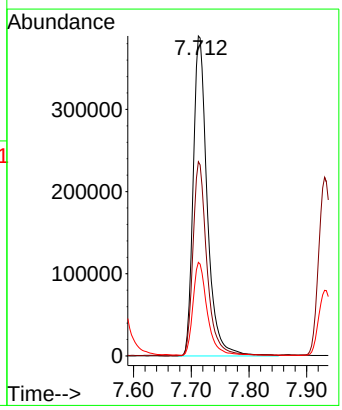


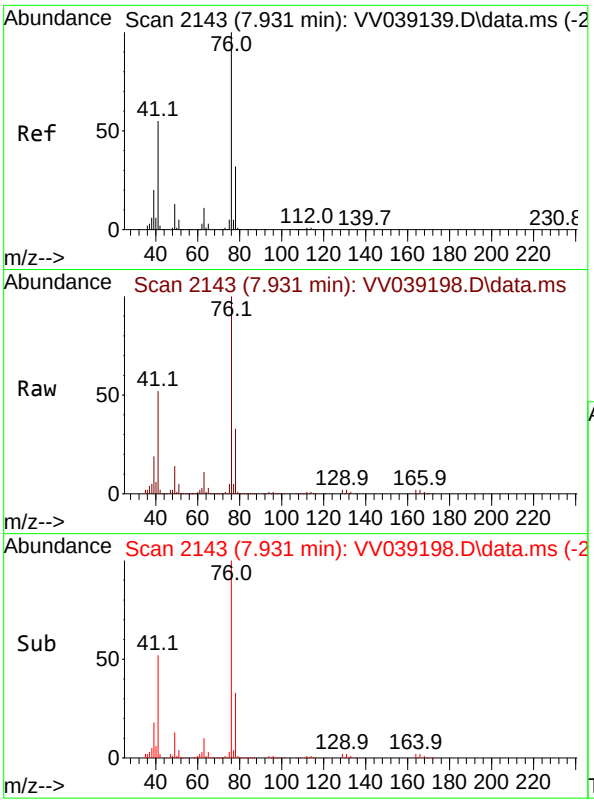




#56
Ethyl methacrylate
Concen: 60.567 ug/l
RT: 7.712 min Scan# 2075
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 69 Resp: 659328

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 60.5 | 50.7 | 76.1 |
| 39 | 29.3 | 26.0 | 39.0 |



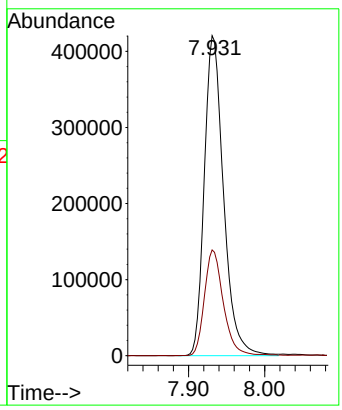


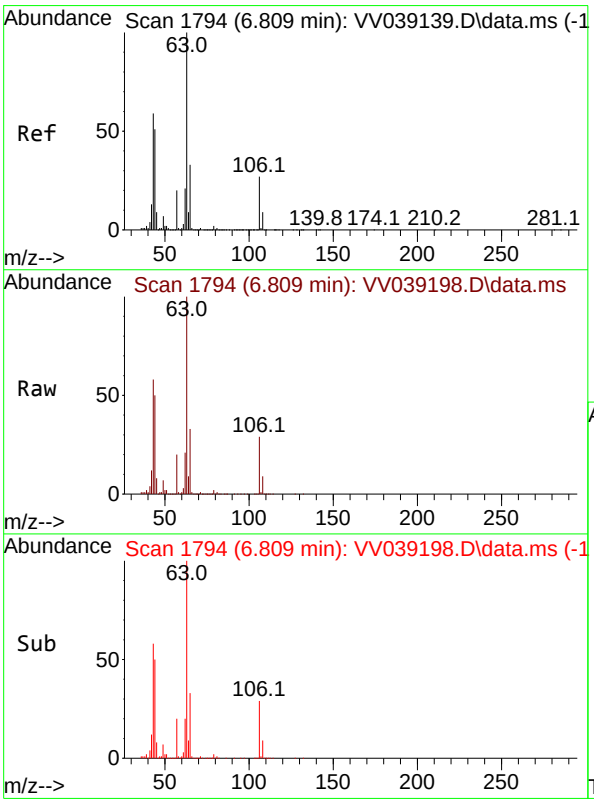

#57
1,3-Dichloropropane
Concen: 51.050 ug/l
RT: 7.931 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 76 Resp: 738511

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.7 | 26.1 | 39.1 |

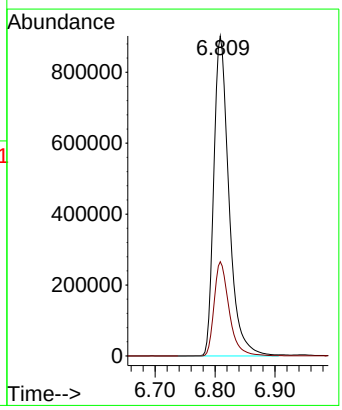


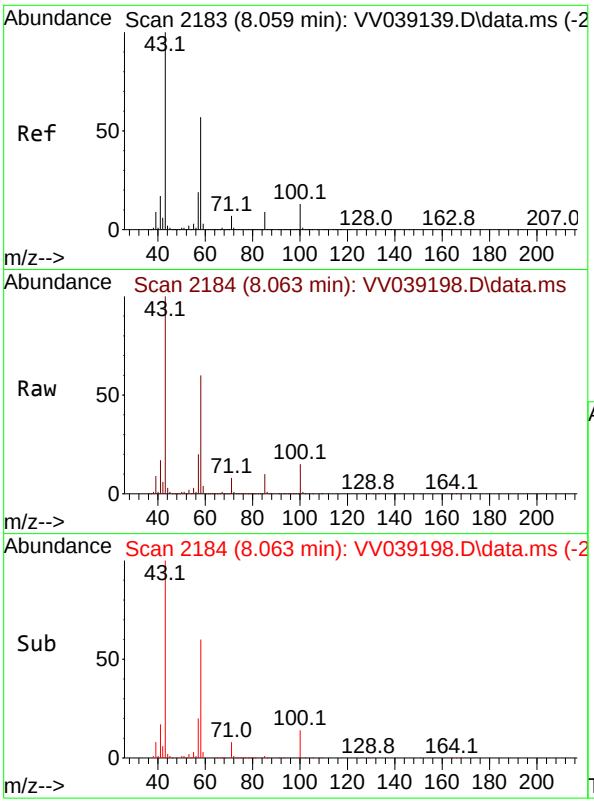




#58
2-Chloroethyl Vinyl ether
Concen: 257.371 ug/l
RT: 6.809 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 63 Resp: 1583796

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 29.1 | 22.1 | 33.1 |



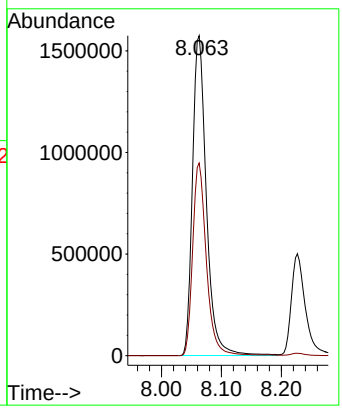


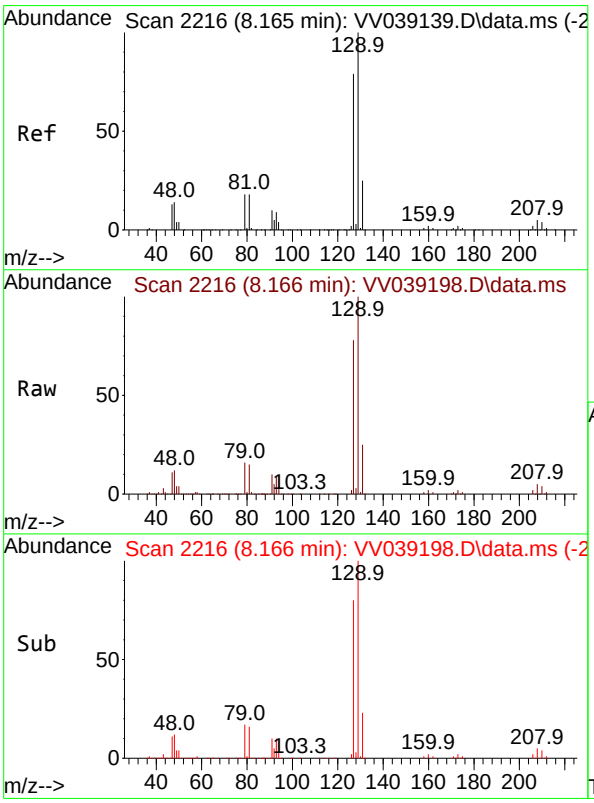

#59
2-Hexanone
Concen: 266.941 ug/l
RT: 8.063 min Scan# 2
Delta R.T. 0.004 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 2540984

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 59.4 | 28.3 | 85.0 |

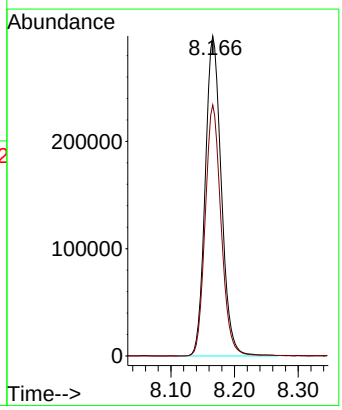


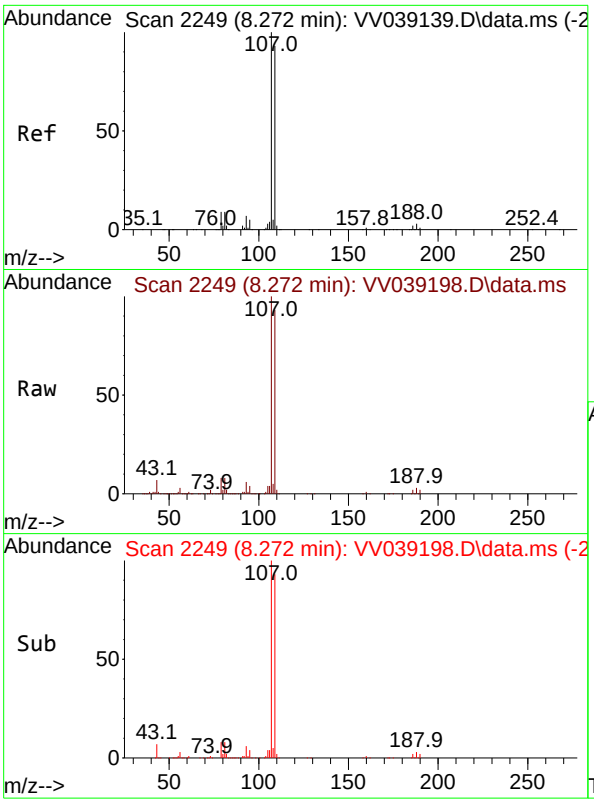




#60
Dibromochloromethane
Concen: 50.091 ug/l
RT: 8.166 min Scan# 2216
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion:129 Resp: 523192

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.5 | 39.3 | 117.9 |



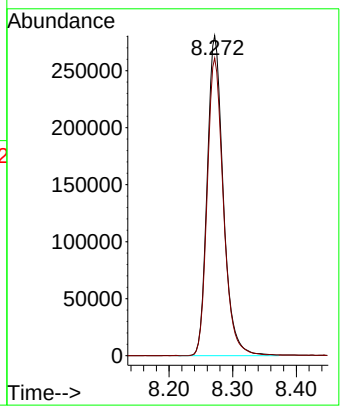


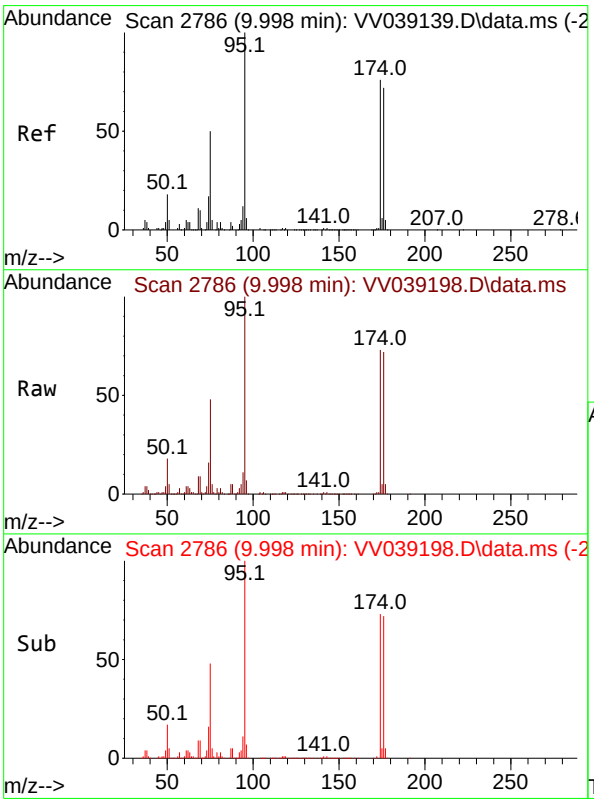

#61
1,2-Dibromoethane
Concen: 52.515 ug/l
RT: 8.272 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:107 Resp: 492305

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.0 | 74.6 | 112.0 |

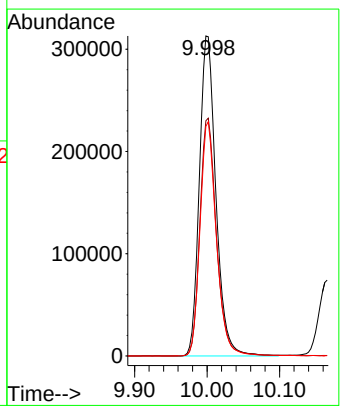


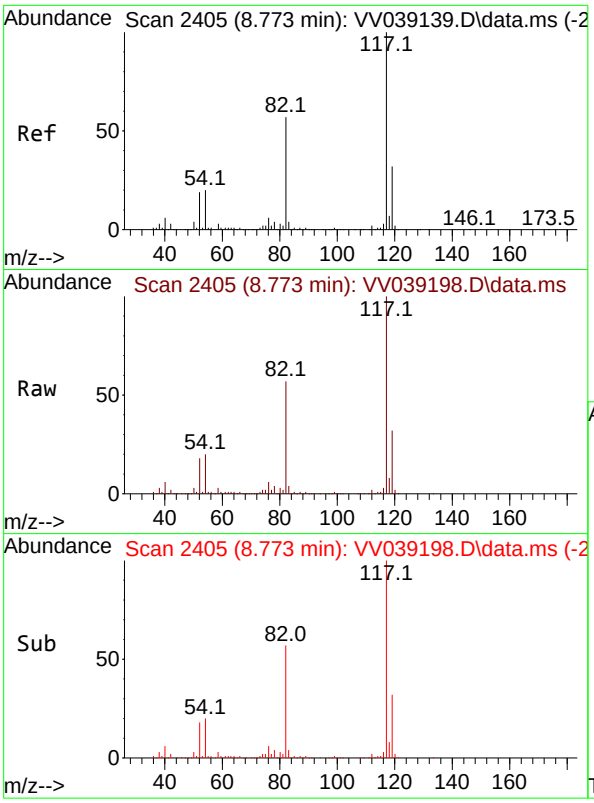




#62
4-Bromofluorobenzene
Concen: 57.366 ug/l
RT: 9.998 min Scan# 2786
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 95 Resp: 496739

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 74.4 | 0.0 | 150.4 |
| 176 | 72.5 | 0.0 | 144.2 |



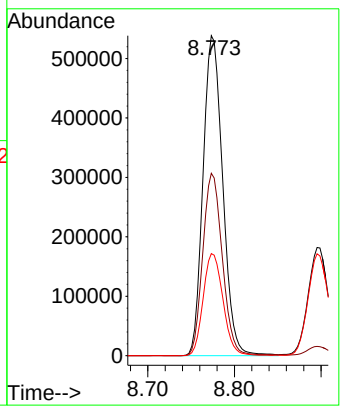


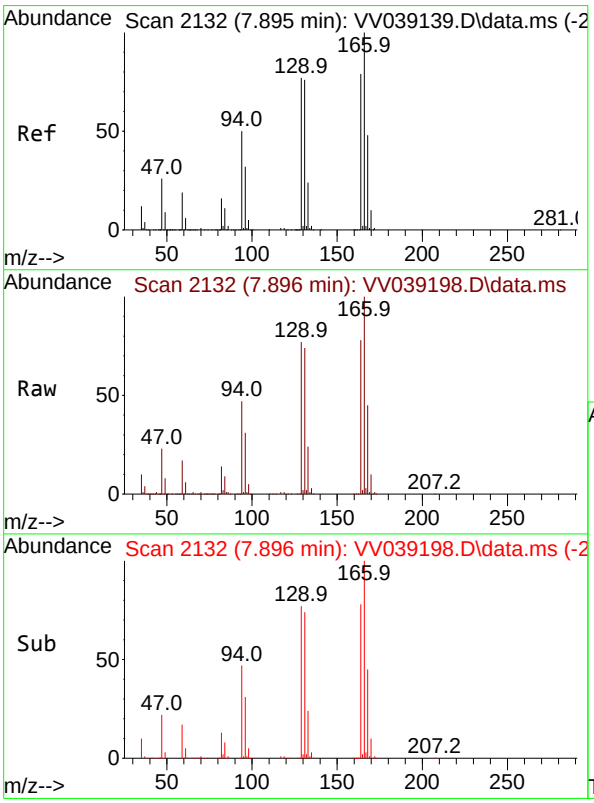

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.773 min Scan# 24
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:117 Resp: 851107

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.0 | 45.4 | 68.2 |
| 119 | 31.9 | 25.6 | 38.4 |

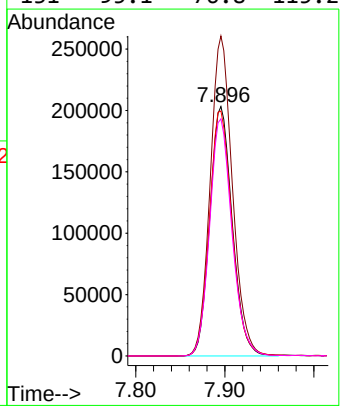


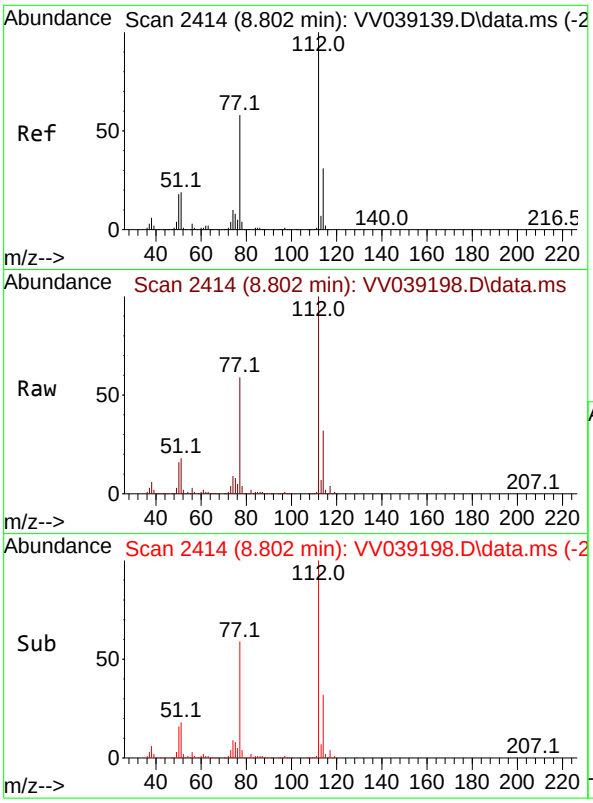




#64
Tetrachloroethene
Concen: 49.940 ug/l
RT: 7.896 min Scan# 2132
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion:164 Resp: 356008

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 128.3 | 101.6 | 152.4 |
| 129 | 98.2 | 78.5 | 117.7 |
| 131 | 95.1 | 76.8 | 115.2 |



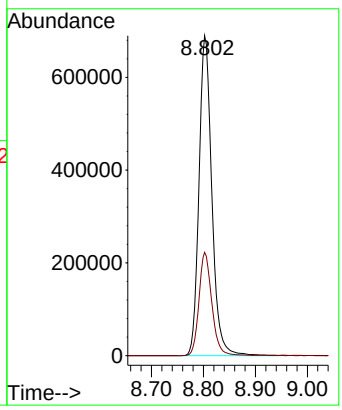


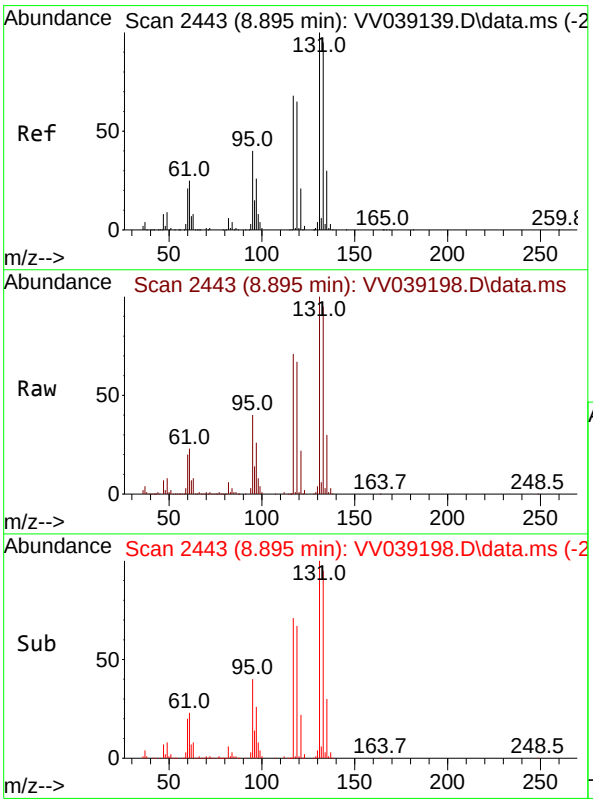

#65
Chlorobenzene
Concen: 49.953 ug/l
RT: 8.802 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:112 Resp: 1184240

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.3 | 24.6 | 37.0 |

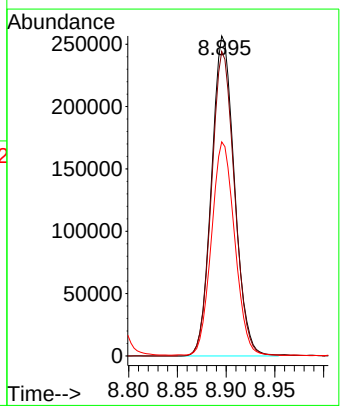


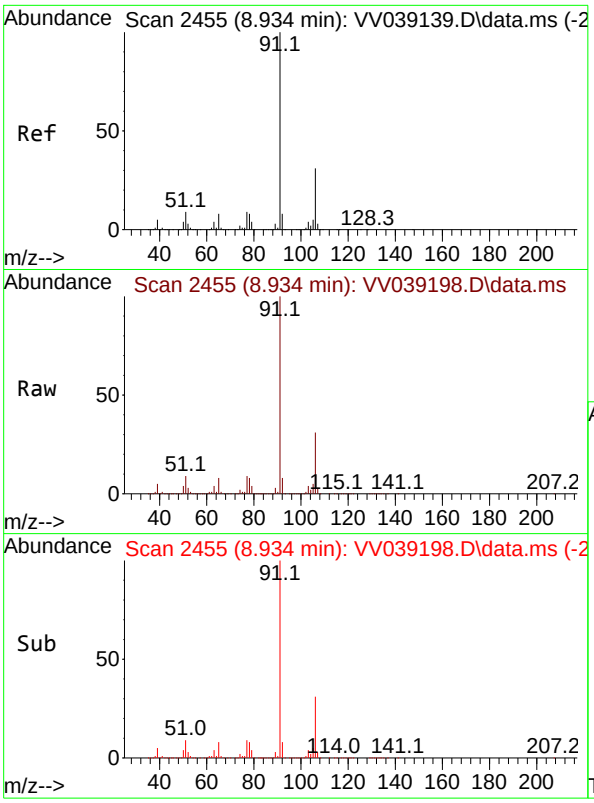




#66
1,1,1,2-Tetrachloroethane
Concen: 49.105 ug/l
RT: 8.895 min Scan# 2443
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion:131 Resp: 420629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.6 | 47.3 | 141.8 |
| 119 | 67.6 | 33.3 | 99.8 |



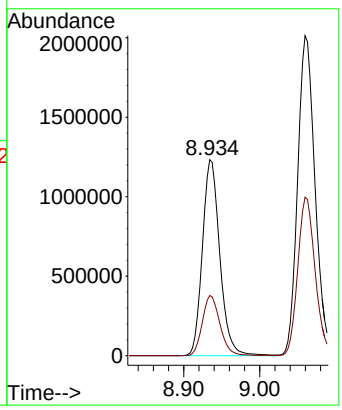


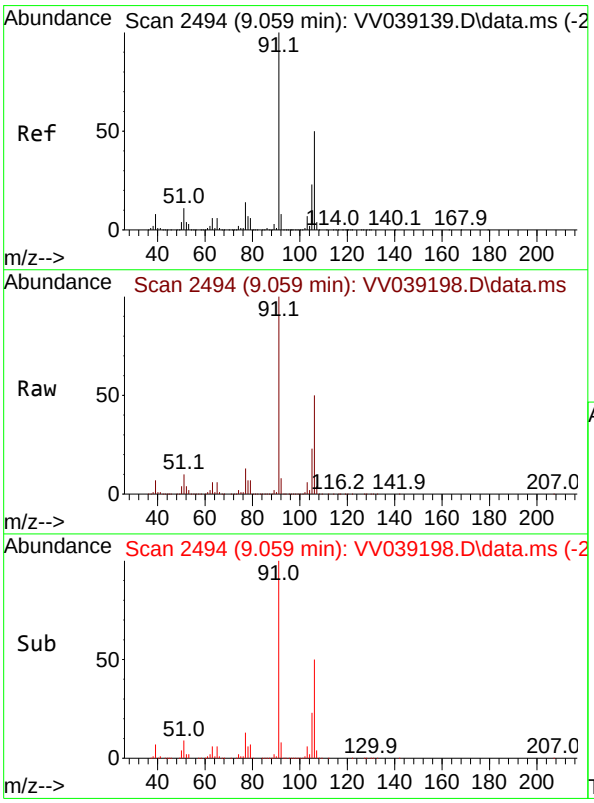

#67
Ethyl Benzene
Concen: 54.765 ug/l
RT: 8.934 min Scan# 24
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 91 Resp: 1965281

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.7 | 24.6 | 37.0 |

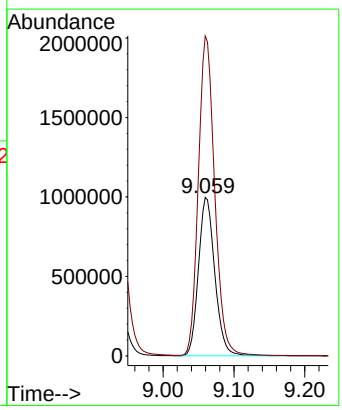


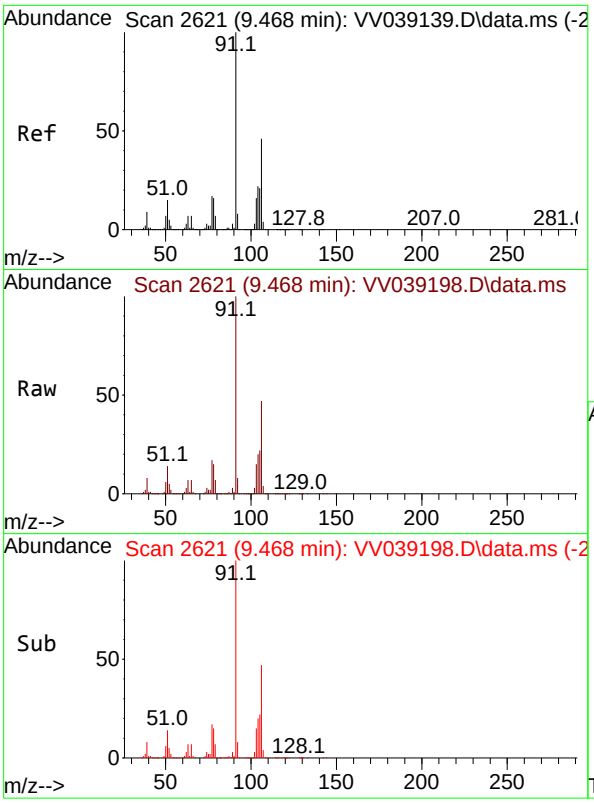




#68
m/p-Xylenes
Concen: 115.152 ug/l
RT: 9.059 min Scan# 2494
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion:106 Resp: 1594917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 202.2 | 162.5 | 243.7 |



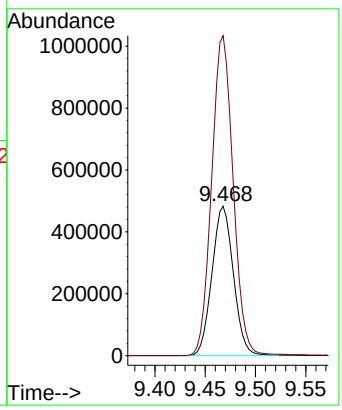


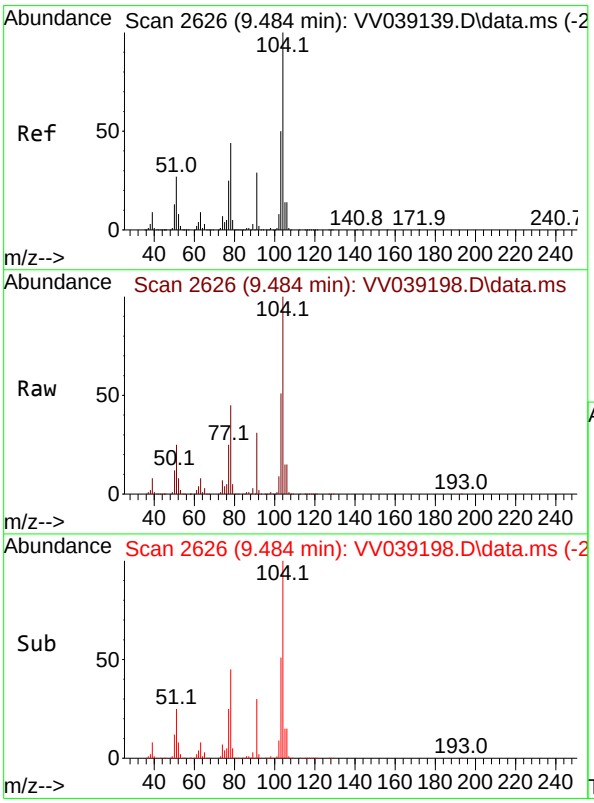

#69
o-Xylene
Concen: 58.277 ug/l
RT: 9.468 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:106 Resp: 714698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 215.7 | 109.1 | 327.3 |

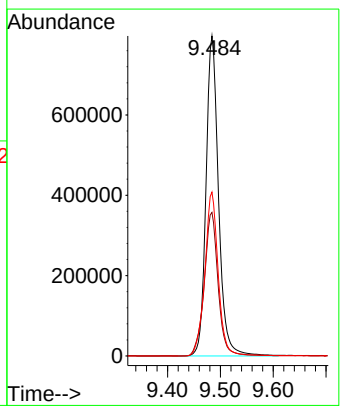


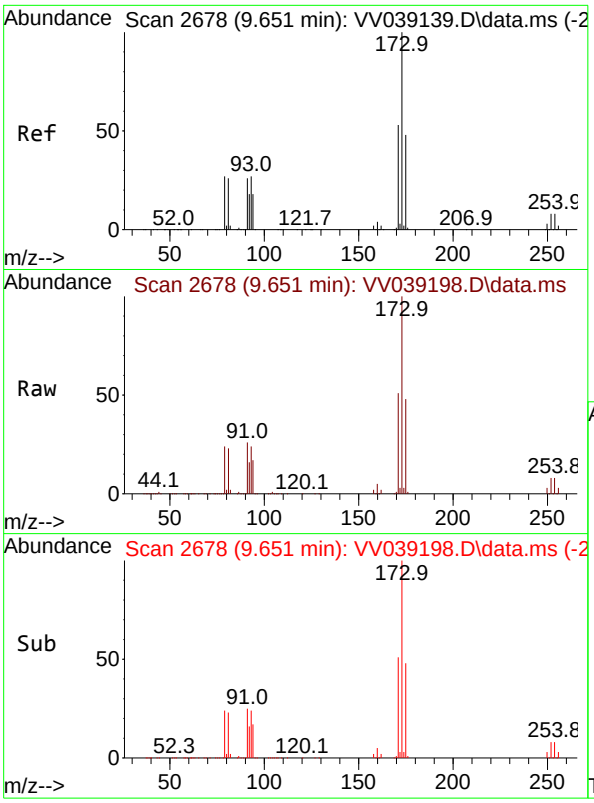




#70
Styrene
Concen: 50.578 ug/l
RT: 9.484 min Scan# 2626
Delta R.T. -0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion:104 Resp: 1314322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 49.4 | 39.8 | 59.6 |
| 103 | 54.6 | 43.4 | 65.2 |



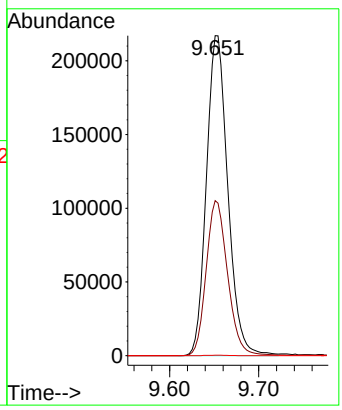


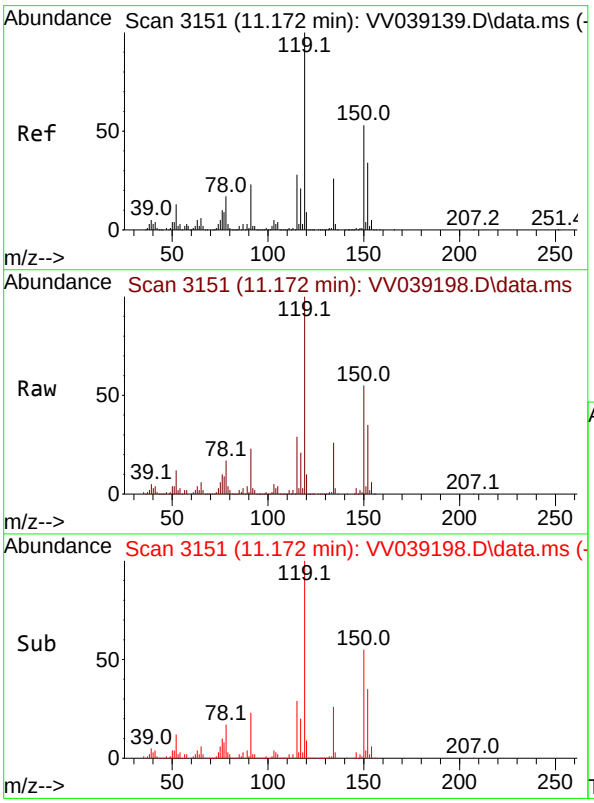

#71
Bromoform
Concen: 54.097 ug/l
RT: 9.651 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:173 Resp: 361962

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.5 | 23.9 | 71.7 |
| 254 | 0.2 | 0.1 | 0.1# |

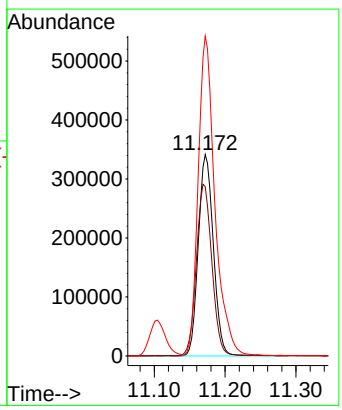


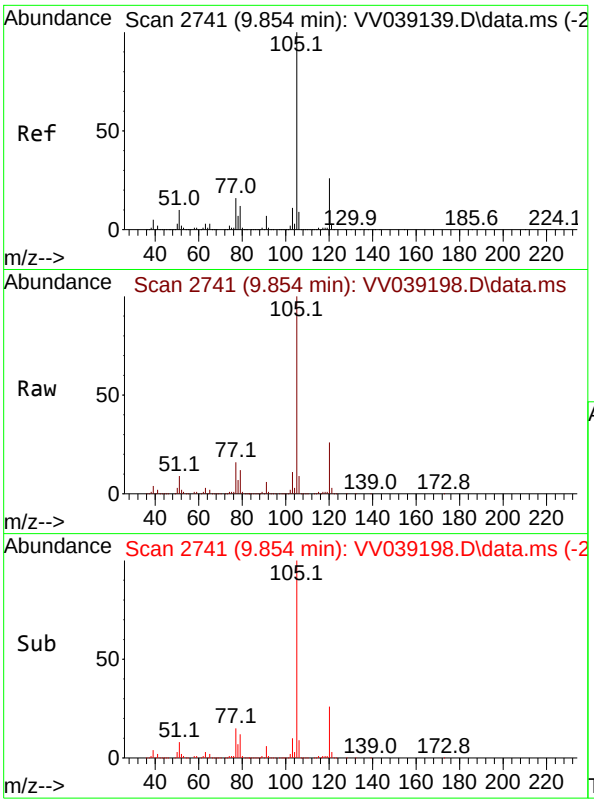




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion:152 Resp: 503461

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 87.3 | 44.8 | 134.4 |
| 150 | 176.2 | 0.0 | 353.8 |



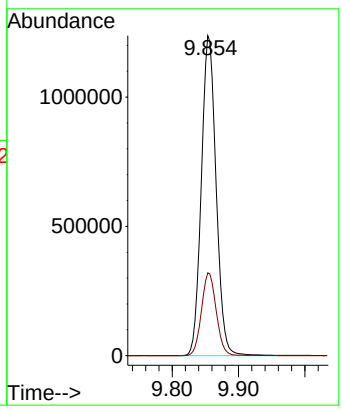


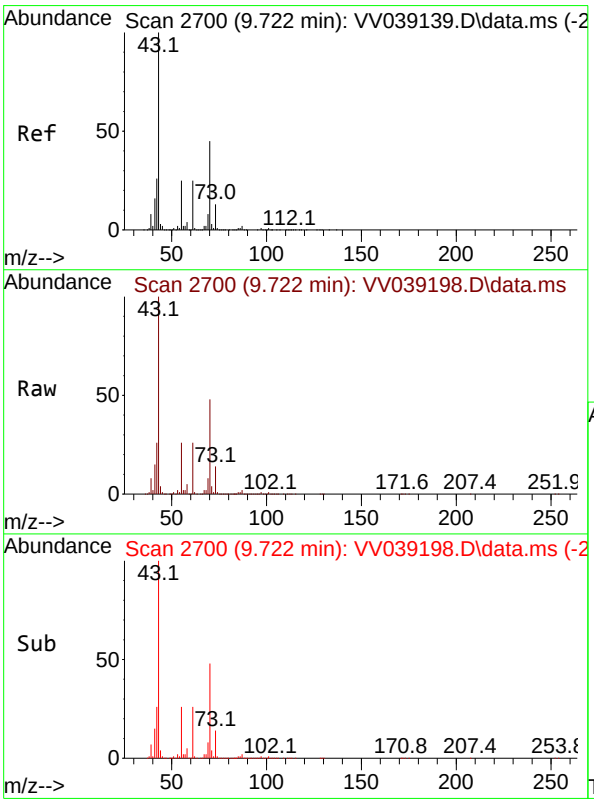

#73
Isopropylbenzene
Concen: 52.314 ug/l
RT: 9.854 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:105 Resp: 1910303

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.9 | 13.1 | 39.1 |

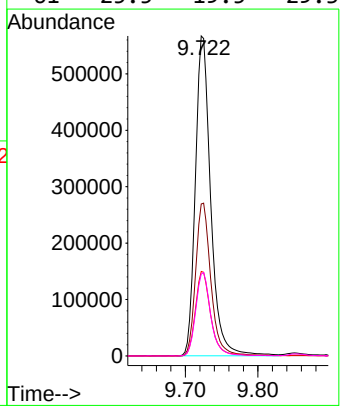


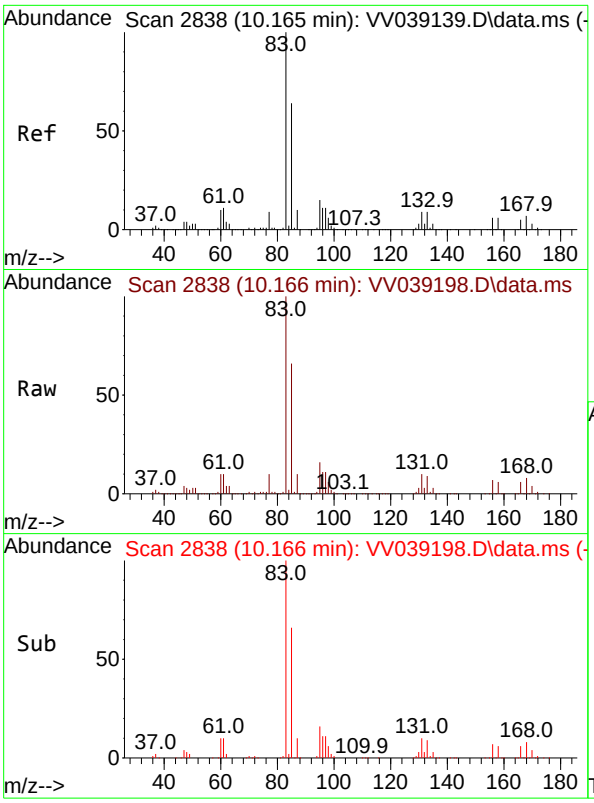




#74
N-amyl acetate
Concen: 57.243 ug/l
RT: 9.722 min Scan# 2700
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 43 Resp: 833773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 47.6 | 35.4 | 53.0 |
| 55 | 26.4 | 20.6 | 30.8 |
| 61 | 25.5 | 19.5 | 29.3 |



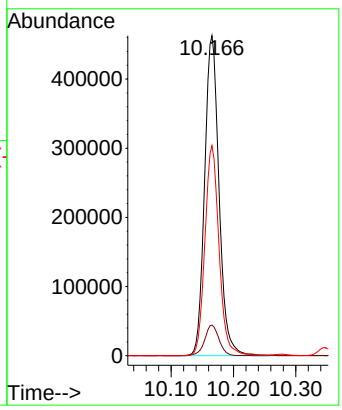


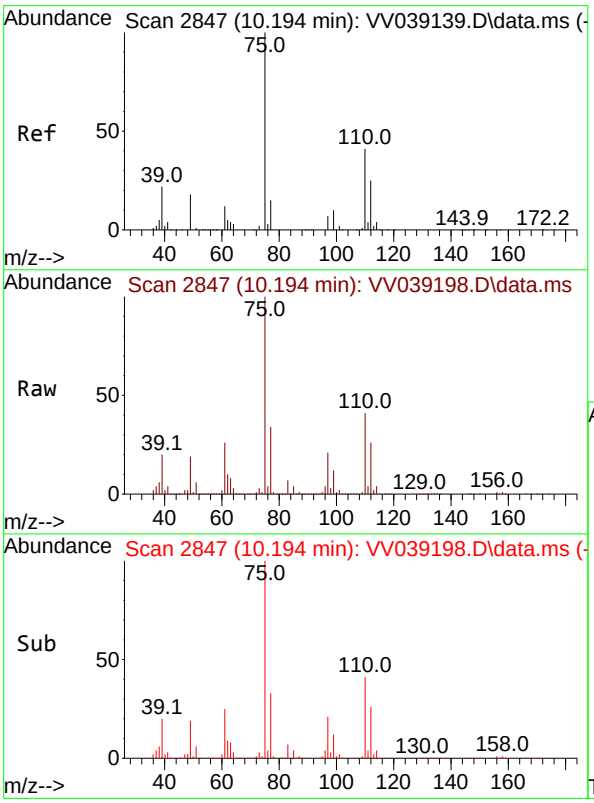

#75
1,1,2,2-Tetrachloroethane
Concen: 46.497 ug/l
RT: 10.166 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 83 Resp: 743933

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.6 | 4.5 | 13.7 |
| 85 | 64.5 | 31.9 | 95.9 |

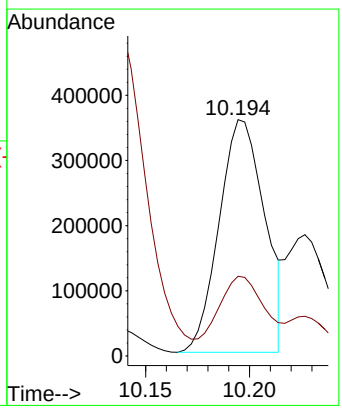


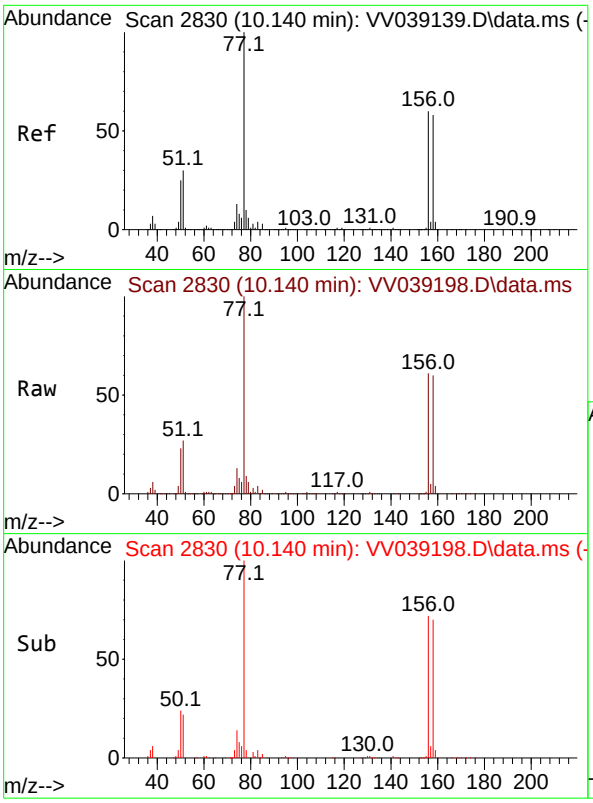




#76
1,2,3-Trichloropropane
Concen: 47.449 ug/l
RT: 10.194 min Scan# 2847
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 75 Resp: 543913

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 25.0 | 11.3 | 33.8 |



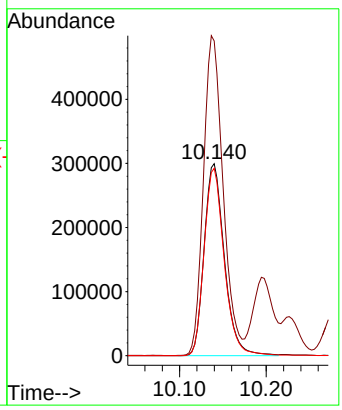


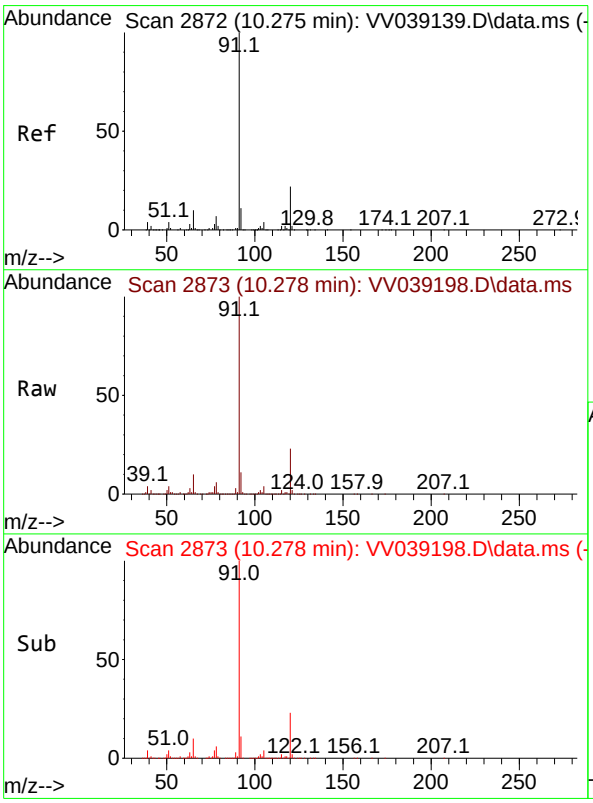

#77
Bromobenzene
Concen: 51.325 ug/l
RT: 10.140 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:156 Resp: 486251

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 161.4 | 83.4 | 250.1 |
| 158 | 97.2 | 48.8 | 146.4 |

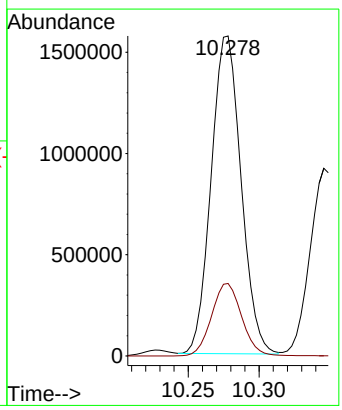


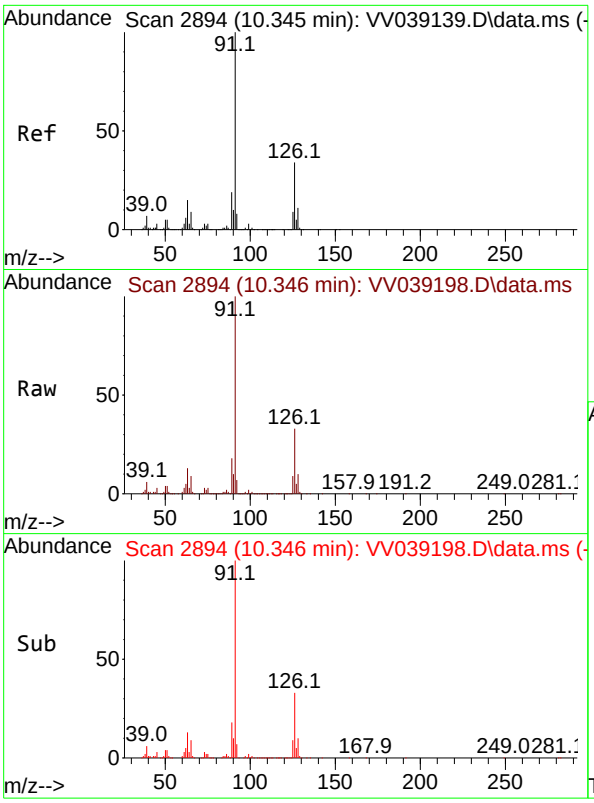




#78
n-propylbenzene
Concen: 51.822 ug/l
RT: 10.278 min Scan# 2873
Delta R.T. 0.003 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 91 Resp: 2304429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 23.1 | 11.1 | 33.3 |



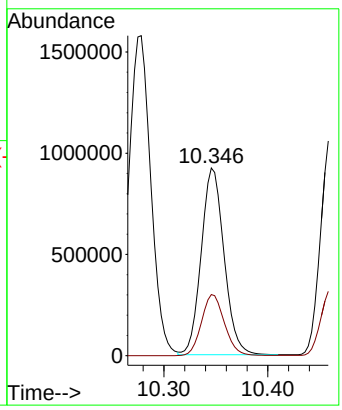


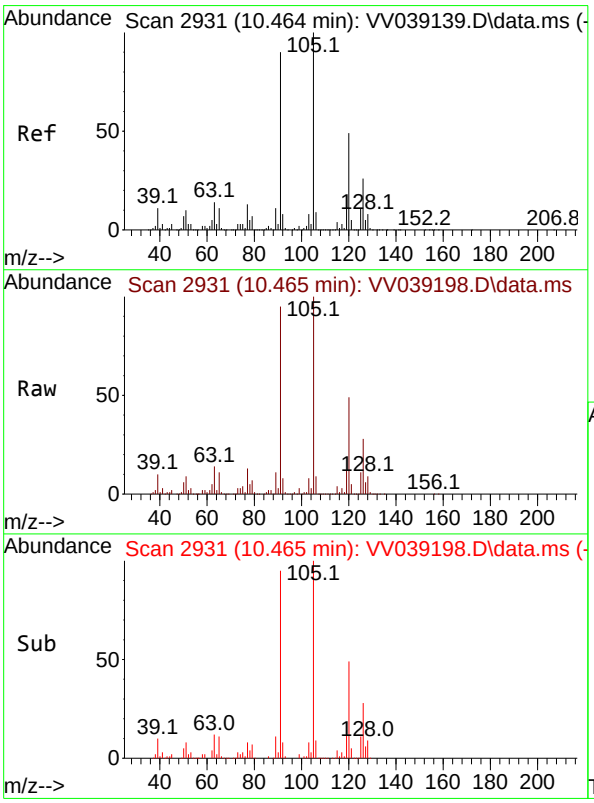

#79
2-Chlorotoluene
Concen: 52.993 ug/l
RT: 10.346 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 91 Resp: 1410067

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.8 | 16.7 | 50.0 |

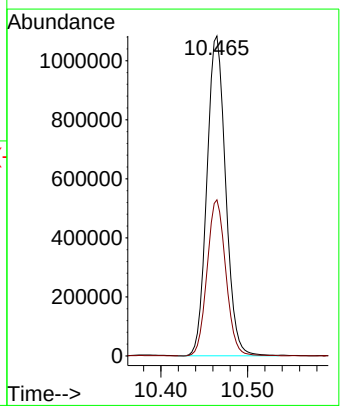


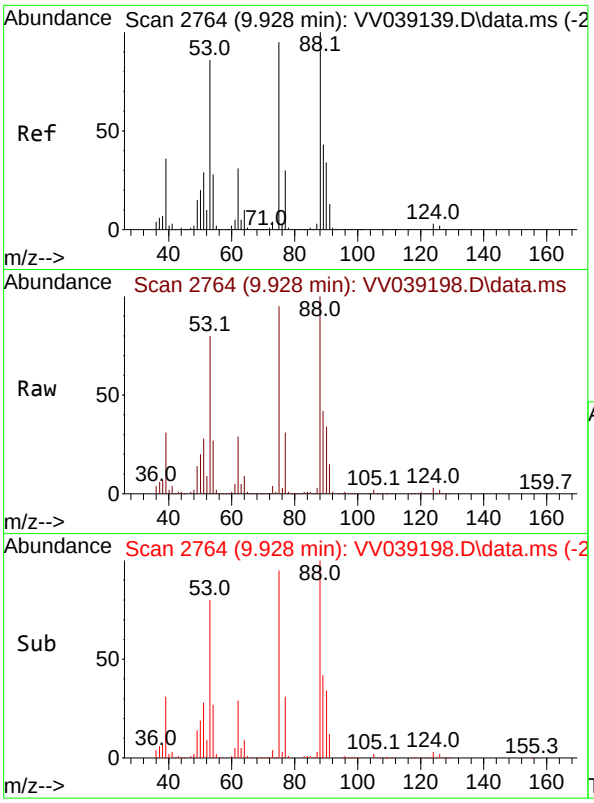




#80
1,3,5-Trimethylbenzene
Concen: 53.760 ug/l
RT: 10.465 min Scan# 2931
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion:105 Resp: 1631715

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.7 | 24.3 | 72.8 |



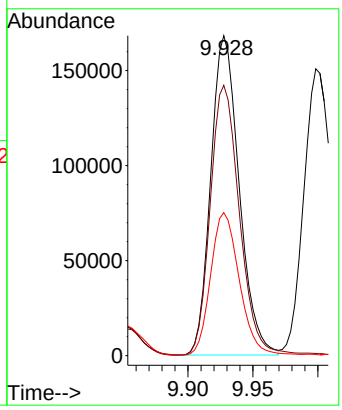


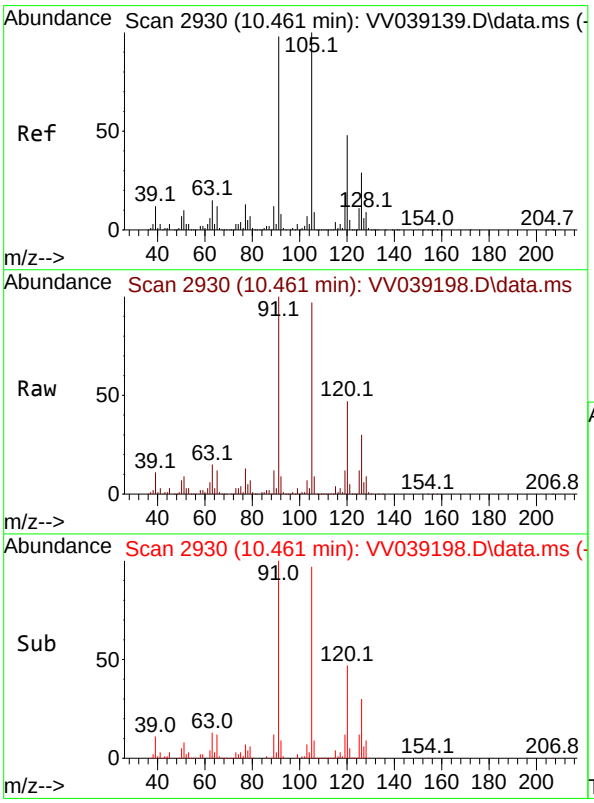

#81
trans-1,4-Dichloro-2-butene
Concen: 53.459 ug/l
RT: 9.928 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 75 Resp: 255261

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 87.0 | 72.5 | 108.7 |
| 89 | 44.9 | 37.2 | 55.8 |

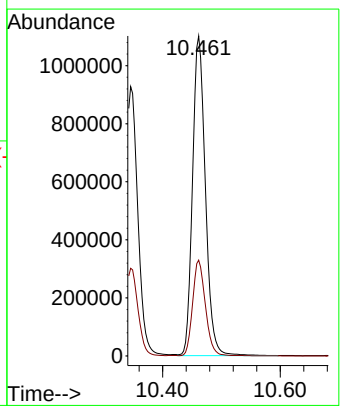


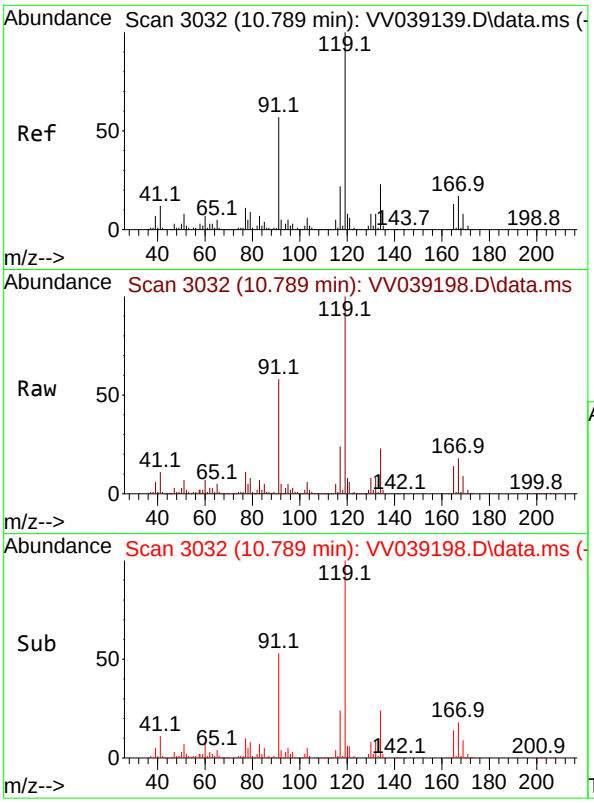




#82
4-Chlorotoluene
Concen: 53.976 ug/l
RT: 10.461 min Scan# 2930
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 91 Resp: 1665368

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 29.5 | 14.5 | 43.6 |



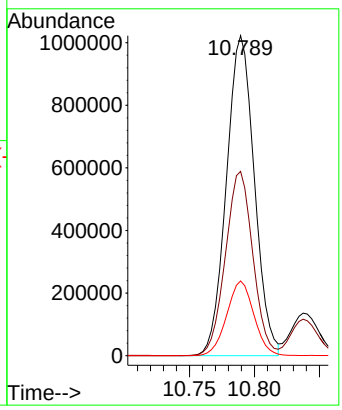


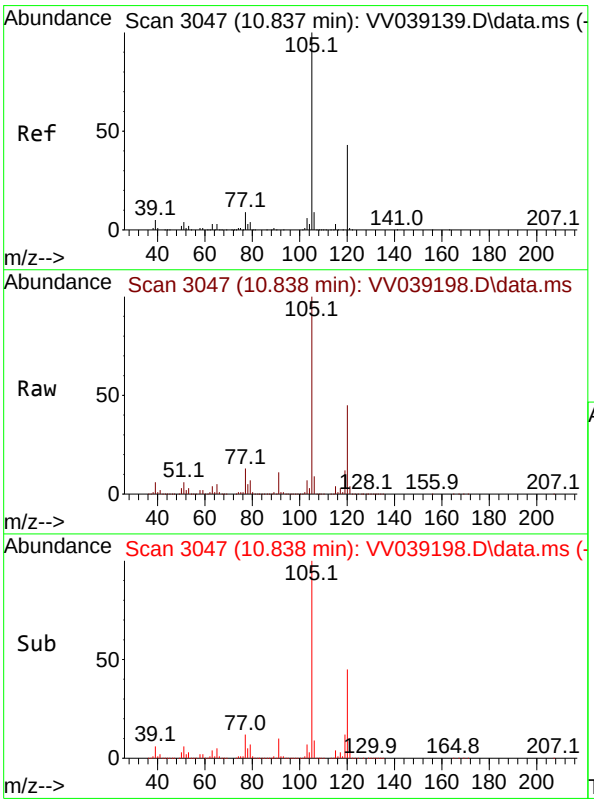

#83
tert-Butylbenzene
Concen: 50.617 ug/l
RT: 10.789 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:119 Resp: 1531956

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 56.6 | 28.5 | 85.6 |
| 134 | 22.8 | 11.5 | 34.4 |

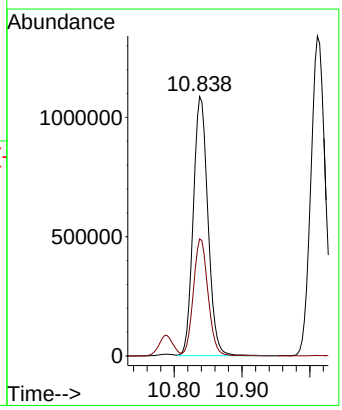


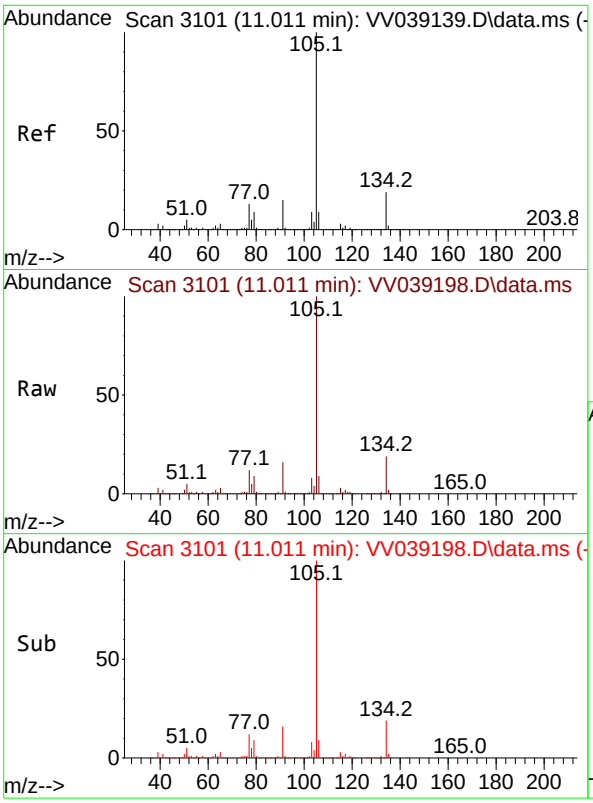




#84
1,2,4-Trimethylbenzene
Concen: 55.520 ug/l
RT: 10.838 min Scan# 3047
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion:105 Resp: 1635985

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.0 | 22.4 | 67.2 |



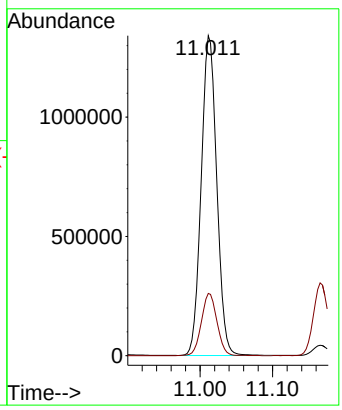


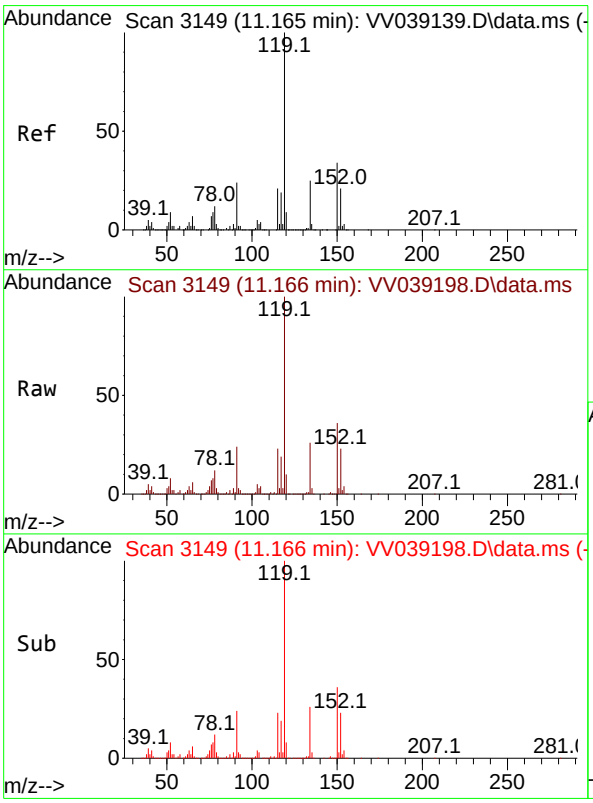

#85
sec-Butylbenzene
Concen: 49.696 ug/l
RT: 11.011 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:105 Resp: 1994966

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.5 | 9.6 | 28.8 |

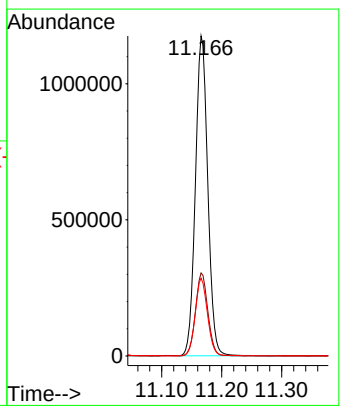


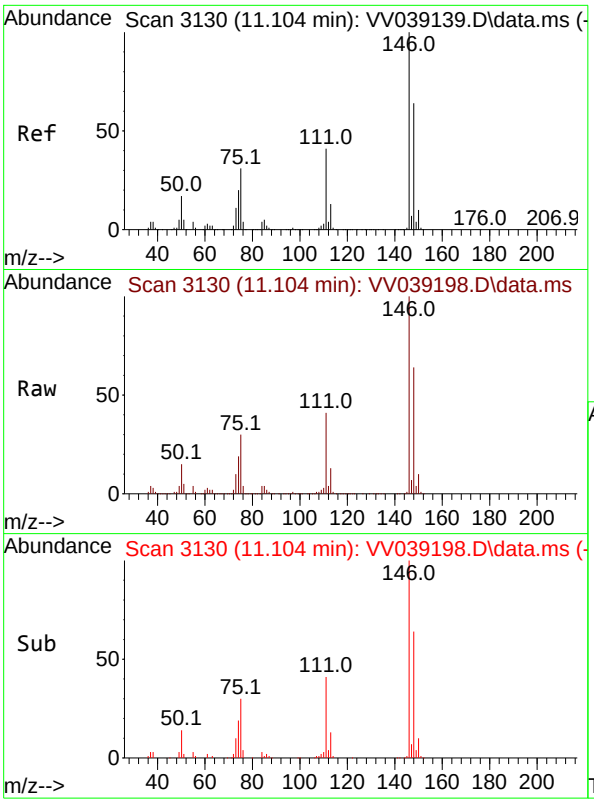




#86
p-Isopropyltoluene
Concen: 50.491 ug/l
RT: 11.166 min Scan# 3149
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion:119 Resp: 1686983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.9 | 12.7 | 38.0 |
| 91 | 23.9 | 12.0 | 36.1 |



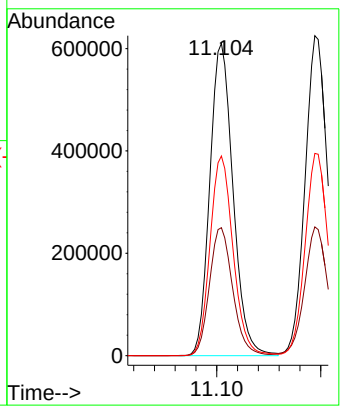


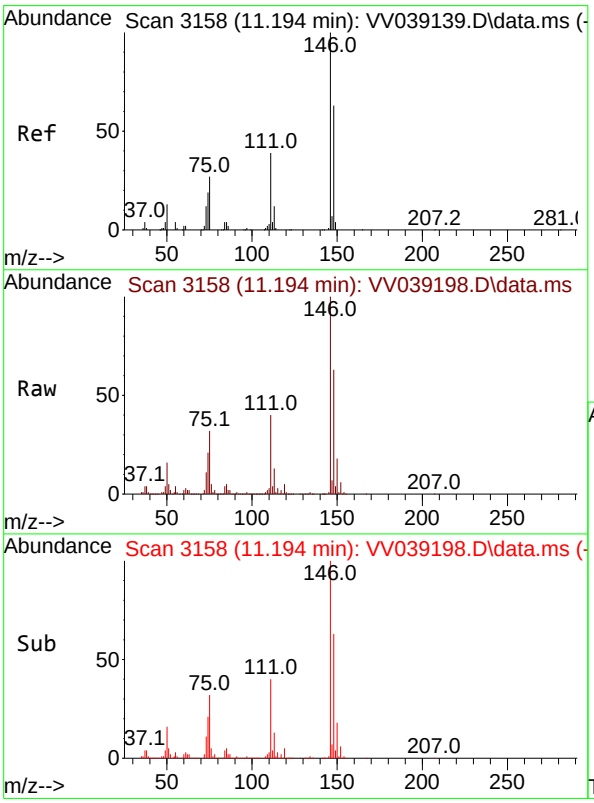

#87
1,3-Dichlorobenzene
Concen: 49.438 ug/l
RT: 11.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:146 Resp: 947921

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.9 | 20.9 | 62.8 |
| 148 | 63.7 | 31.8 | 95.3 |

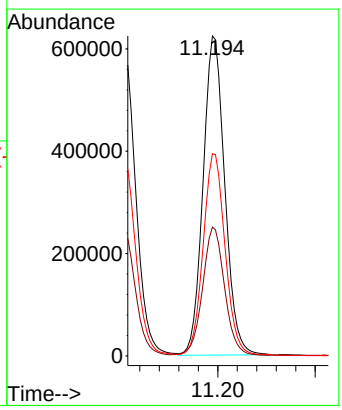


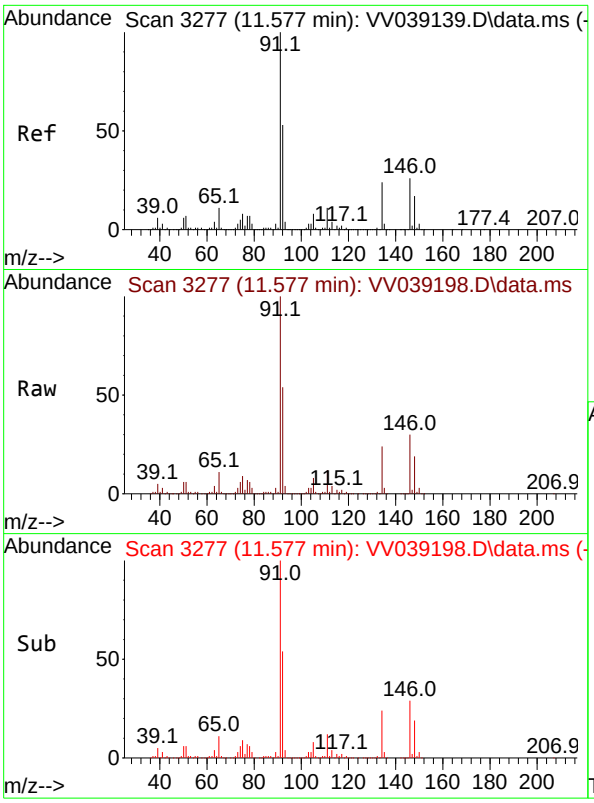




#88
1,4-Dichlorobenzene
Concen: 45.789 ug/l
RT: 11.194 min Scan# 3158
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion:146 Resp: 963204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.8 | 20.3 | 60.8 |
| 148 | 64.7 | 31.4 | 94.2 |



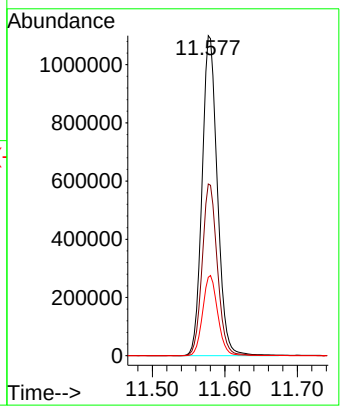


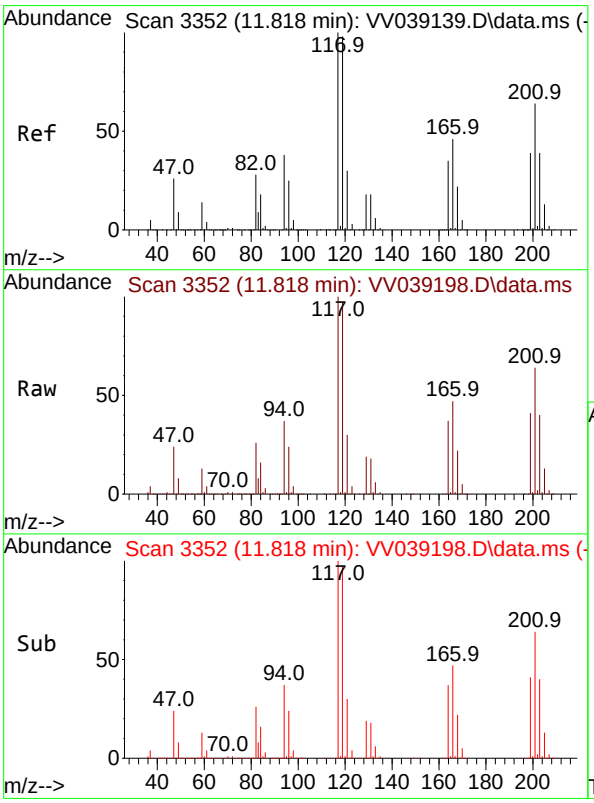

#89
n-Butylbenzene
Concen: 50.362 ug/l
RT: 11.577 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 91 Resp: 1607017

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.5 | 26.6 | 79.8 |
| 134 | 24.8 | 12.1 | 36.3 |

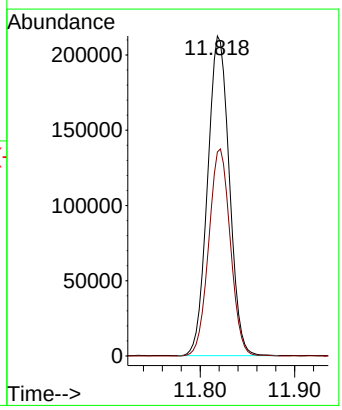


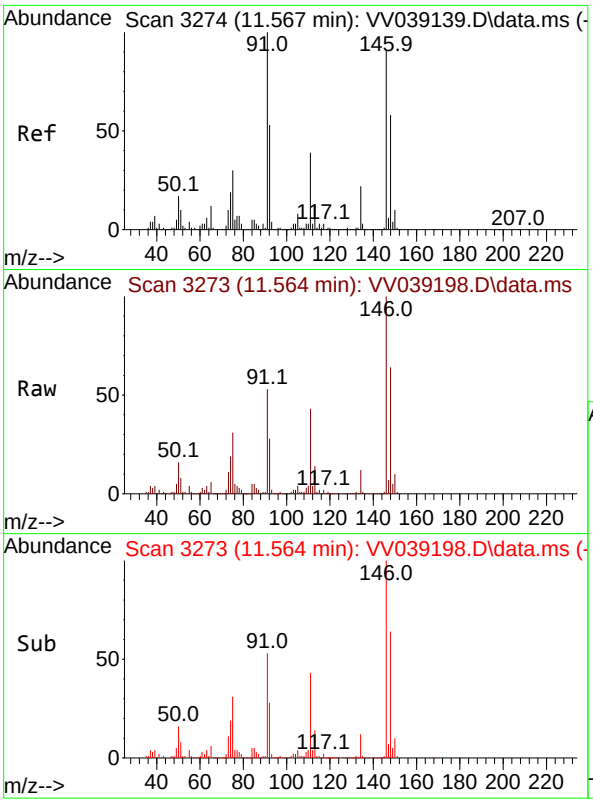




#90
Hexachloroethane
Concen: 41.222 ug/l
RT: 11.818 min Scan# 3352
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion:117 Resp: 339159

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 64.3 | 32.3 | 96.8 |



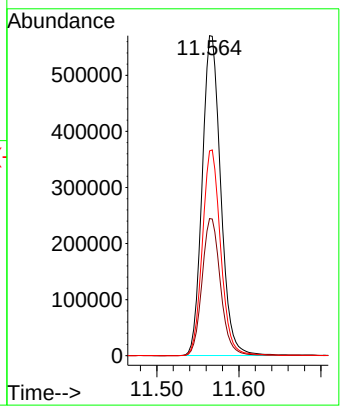


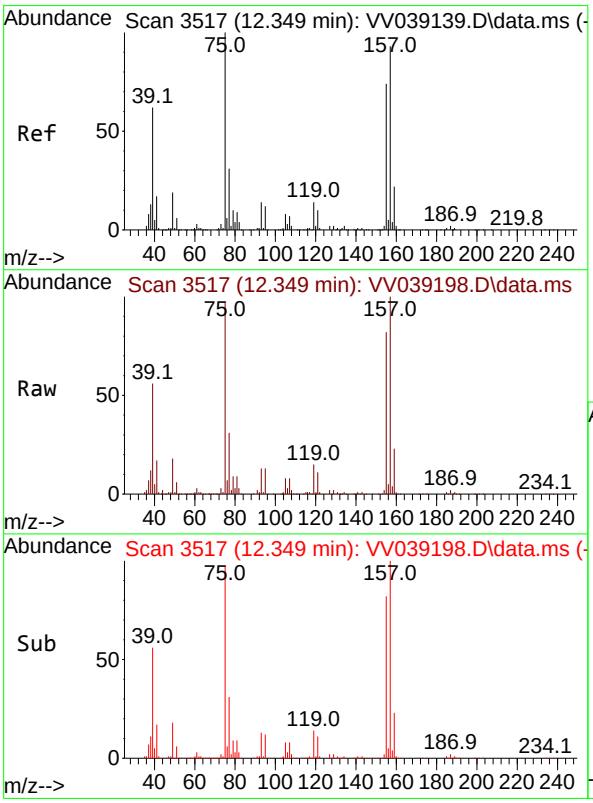

#91
1,2-Dichlorobenzene
Concen: 50.024 ug/l
RT: 11.564 min Scan# 3
Delta R.T. -0.003 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:146 Resp: 896118

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.8 | 21.5 | 64.5 |
| 148 | 63.6 | 31.9 | 95.7 |

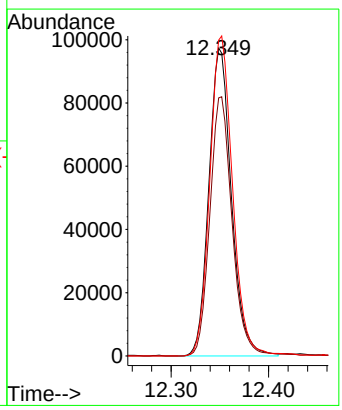


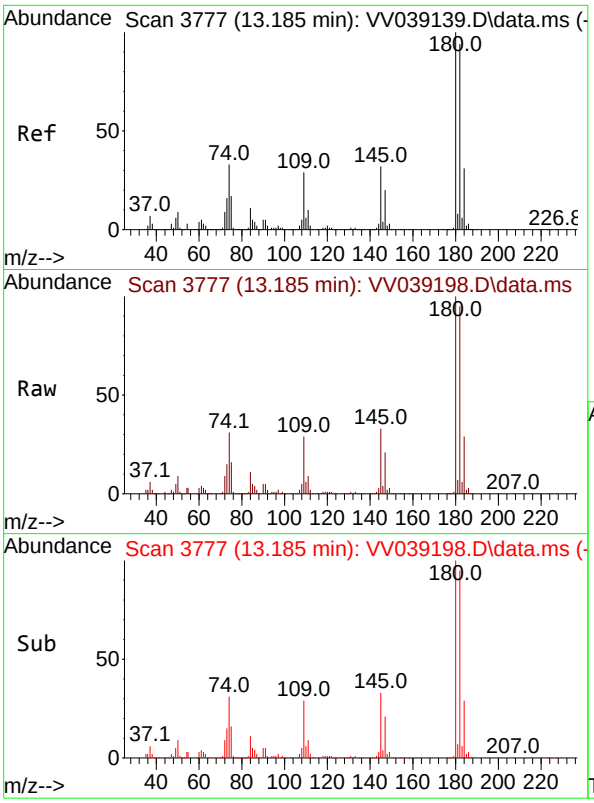




#92
1,2-Dibromo-3-Chloropropane
Concen: 54.339 ug/l
RT: 12.349 min Scan# 3517
Delta R.T. -0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion: 75 Resp: 157070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 83.1 | 38.6 | 115.8 |
| 157 | 105.1 | 49.5 | 148.3 |



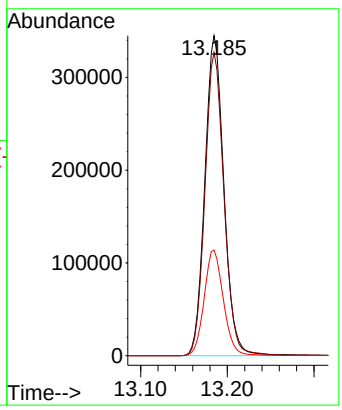


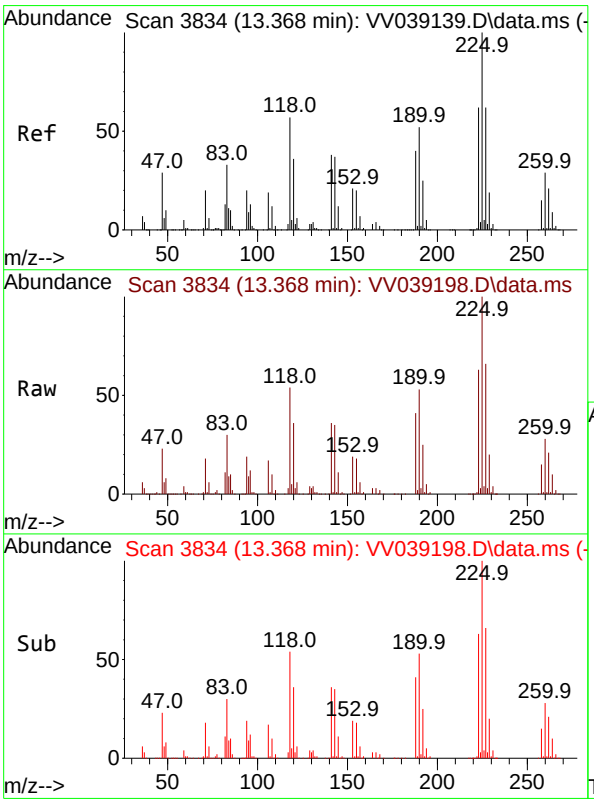

#93
1,2,4-Trichlorobenzene
Concen: 51.259 ug/l
RT: 13.185 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:180 Resp: 526372

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.8 | 47.1 | 141.4 |
| 145 | 33.4 | 16.3 | 48.8 |

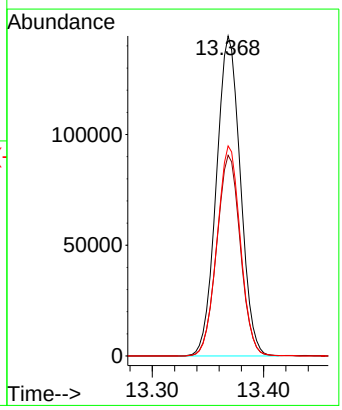


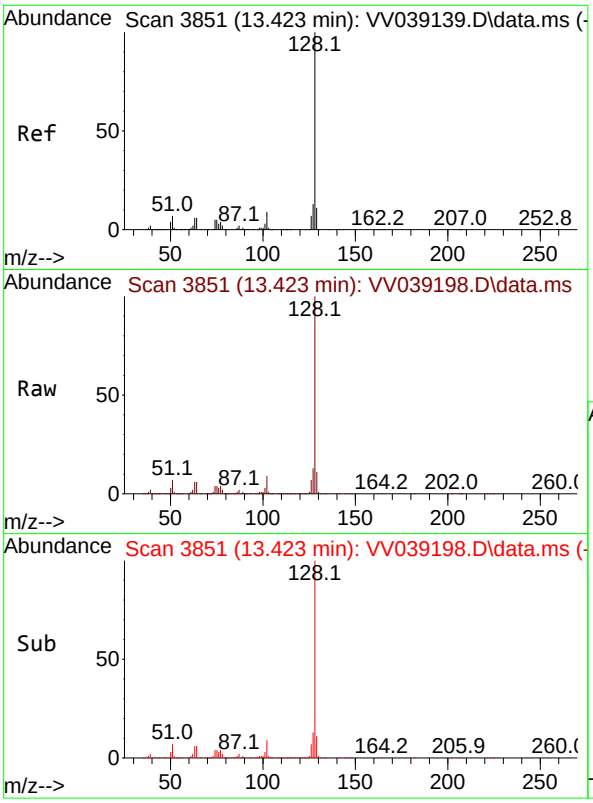




#94
Hexachlorobutadiene
Concen: 40.581 ug/l
RT: 13.368 min Scan# 3834
Delta R.T. -0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion:225 Resp: 216529

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 61.8 | 31.6 | 94.7 |
| 227 | 64.0 | 31.8 | 95.4 |



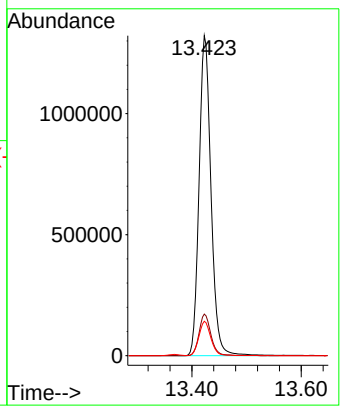


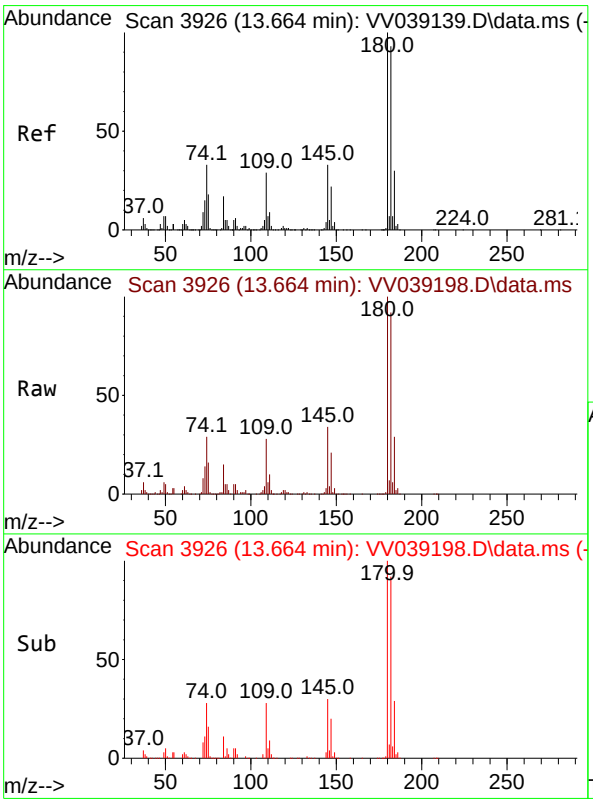

#95
Naphthalene
Concen: 60.159 ug/l
RT: 13.423 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:128 Resp: 1996722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.9 | 10.3 | 15.5 |
| 129 | 10.6 | 8.6 | 13.0 |

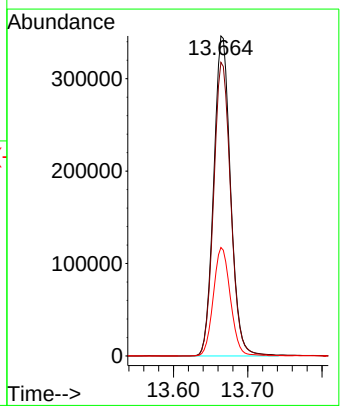



#96
1,2,3-Trichlorobenzene
Concen: 52.133 ug/l
RT: 13.664 min Scan# 3926
Delta R.T. 0.000 min
Lab File: VV039198.D
Acq: 26 Sep 2025 09:20

Tgt Ion:180 Resp: 547531

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.1 | 46.9 | 140.8 |
| 145 | 34.3 | 17.0 | 51.0 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039198.D
Acq On : 26 Sep 2025 09:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**LabSampleId :**
VSTDCCC050

Quant Time: Sep 27 02:48:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 101 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.791 | 0.698 | 11.8 | 95 | 0.00 |
| 3 | P | Chloromethane | 0.850 | 0.736 | 13.4 | 96 | 0.00 |
| 4 | C | Vinyl Chloride | 0.910 | 0.844 | 7.3# | 102 | 0.00 |
| 5 | T | Bromomethane | 0.573 | 0.514 | 10.3 | 102 | 0.00 |
| 6 | T | Chloroethane | 0.631 | 0.532 | 15.7 | 101 | 0.00 |
| 7 | T | Trichlorofluoromethane | 1.317 | 1.229 | 6.7 | 104 | 0.00 |
| 8 | T | Diethyl Ether | 0.489 | 0.483 | 1.2 | 109 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.784 | 0.749 | 4.5 | 108 | 0.00 |
| 10 | T | Methyl Iodide | 0.746 | 0.735 | 1.5 | 94 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.153 | 0.163 | -6.5 | 120 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.754 | 0.714 | 5.3# | 107 | 0.00 |
| 13 | T | Acrolein | 0.027 | 0.028 | -3.7 | 106 | 0.00 |
| 14 | T | Allyl chloride | 1.347 | 1.236 | 8.2 | 100 | 0.00 |
| 15 | T | Acrylonitrile | 0.490 | 0.473 | 3.5 | 109 | 0.00 |
| 16 | T | Acetone | 0.523 | 0.568 | -8.6 | 128 | 0.00 |
| 17 | T | Carbon Disulfide | 2.306 | 2.040 | 11.5 | 99 | 0.00 |
| 18 | T | Methyl Acetate | 1.072 | 1.106 | -3.2 | 114 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 2.402 | 2.440 | -1.6 | 110 | 0.00 |
| 20 | T | Methylene Chloride | 1.066 | 0.831 | 22.0# | 108 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.803 | 0.750 | 6.6 | 104 | 0.00 |
| 22 | T | Diisopropyl ether | 2.576 | 2.396 | 7.0 | 96 | 0.00 |
| 23 | T | Vinyl Acetate | 2.254 | 2.131 | 5.5 | 98 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.576 | 1.404 | 10.9 | 102 | 0.00 |
| 25 | T | 2-Butanone | 0.579 | 0.645 | -11.4 | 111 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 1.397 | 1.152 | 17.5 | 94 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.885 | 0.866 | 2.1 | 101 | 0.00 |
| 28 | T | Bromochloromethane | 0.696 | 0.693 | 0.4 | 103 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.363 | 0.374 | -3.0 | 102 | 0.00 |
| 30 | C | Chloroform | 1.645 | 1.456 | 11.5# | 99 | 0.00 |
| 31 | T | Cyclohexane | 1.291 | 1.107 | 14.3 | 90 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.424 | 1.256 | 11.8 | 98 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.724 | 0.673 | 7.0 | 105 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 100 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.402 | 0.406 | -1.0 | 107 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.608 | 0.593 | 2.5 | 95 | 0.00 |
| 37 | T | Ethyl Acetate | 0.737 | 0.703 | 4.6 | 98 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.743 | 0.677 | 8.9 | 96 | 0.00 |
| 39 | T | Methylcyclohexane | 0.734 | 0.718 | 2.2 | 87 | 0.00 |
| 40 | TM | Benzene | 1.979 | 1.939 | 2.0 | 97 | 0.00 |
| 41 | T | Methacrylonitrile | 0.273 | 0.324 | -18.7 | 98 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.693 | 0.652 | 5.9 | 98 | 0.00 |
| 43 | T | Isopropyl Acetate | 1.005 | 1.061 | -5.6 | 99 | 0.00 |
| 44 | TM | Trichloroethene | 0.457 | 0.469 | -2.6 | 101 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.492 | 0.493 | -0.2# | 98 | 0.00 |
| 46 | T | Dibromomethane | 0.376 | 0.378 | -0.5 | 102 | 0.00 |
| 47 | T | Bromodichloromethane | 0.778 | 0.742 | 4.6 | 98 | 0.00 |
| 48 | T | Methyl methacrylate | 0.456 | 0.501 | -9.9 | 99 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039198.D
Acq On : 26 Sep 2025 09:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**LabSampleId :**
VSTDCCC050

Quant Time: Sep 27 02:48:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 0.007 | 0.009 | -28.6# | 120 | 0.00 |
| 50 | S | Toluene-d8 | 1.181 | 1.181 | 0.0 | 104 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.661 | 0.725 | -9.7 | 99 | 0.00 |
| 52 | CM | Toluene | 1.147 | 1.207 | -5.2# | 98 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.678 | 0.734 | -8.3 | 100 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.749 | 0.806 | -7.6 | 99 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.514 | 0.512 | 0.4 | 103 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.611 | 0.740 | -21.1# | 103 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.812 | 0.829 | -2.1 | 101 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.267 | 0.356 | -33.3# | 100 | 0.00 |
| 59 | T | 2-Hexanone | 0.463 | 0.570 | -23.1# | 104 | 0.00 |
| 60 | T | Dibromochloromethane | 0.586 | 0.587 | -0.2 | 103 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.526 | 0.553 | -5.1 | 104 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.486 | 0.558 | -14.8 | 110 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 99 | 0.00 |
| 64 | T | Tetrachloroethene | 0.419 | 0.418 | 0.2 | 100 | 0.00 |
| 65 | PM | Chlorobenzene | 1.393 | 1.391 | 0.1 | 99 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.503 | 0.494 | 1.8 | 100 | 0.00 |
| 67 | C | Ethyl Benzene | 2.108 | 2.309 | -9.5# | 96 | 0.00 |
| 68 | T | m/p-Xylenes | 0.814 | 0.937 | -15.1 | 97 | 0.00 |
| 69 | T | o-Xylene | 0.720 | 0.840 | -16.7 | 98 | 0.00 |
| 70 | T | Styrene | 1.263 | 1.544 | -22.2# | 98 | 0.00 |
| 71 | P | Bromoform | 0.393 | 0.425 | -8.1 | 106 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 98 | 0.00 |
| 73 | T | Isopropylbenzene | 3.627 | 3.794 | -4.6 | 94 | 0.00 |
| 74 | T | N-amyl acetate | 1.447 | 1.656 | -14.4 | 97 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.589 | 1.478 | 7.0 | 101 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.138 | 1.080 | 5.1 | 100 | 0.00 |
| 77 | T | Bromobenzene | 0.941 | 0.966 | -2.7 | 102 | 0.00 |
| 78 | T | n-propylbenzene | 4.416 | 4.577 | -3.6 | 91 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.643 | 2.801 | -6.0 | 96 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.014 | 3.241 | -7.5 | 93 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.474 | 0.507 | -7.0 | 100 | 0.00 |
| 82 | T | 4-Chlorotoluene | 3.064 | 3.308 | -8.0 | 97 | 0.00 |
| 83 | T | tert-Butylbenzene | 3.006 | 3.043 | -1.2 | 92 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.926 | 3.249 | -11.0 | 94 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.987 | 3.963 | 0.6 | 89 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.318 | 3.351 | -1.0 | 89 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.904 | 1.883 | 1.1 | 99 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 2.089 | 1.913 | 8.4 | 96 | 0.00 |
| 89 | T | n-Butylbenzene | 3.169 | 3.192 | -0.7 | 86 | 0.00 |
| 90 | T | Hexachloroethane | 0.817 | 0.674 | 17.5 | 90 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.779 | 1.780 | -0.1 | 100 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.330 | 0.312 | 5.5 | 107 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 1.020 | 1.046 | -2.5 | 95 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.530 | 0.430 | 18.9 | 87 | 0.00 |
| 95 | T | Naphthalene | 3.296 | 3.966 | -20.3# | 101 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039198.D
Acq On : 26 Sep 2025 09:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**LabSampleId :**
VSTDCCC050

Quant Time: Sep 27 02:48:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 1.043 | 1.088 | -4.3 | 96 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039198.D
Acq On : 26 Sep 2025 09:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**LabSampleId :**
VSTDCCC050

Quant Time: Sep 27 02:48:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 101 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 44.079 | 11.8 | 95 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 43.290 | 13.4 | 96 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 46.394 | 7.2# | 102 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 44.774 | 10.5 | 102 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 49.614 | 0.8 | 101 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 46.665 | 6.7 | 104 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 49.434 | 1.1 | 109 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 47.774 | 4.5 | 108 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 49.215 | 1.6 | 94 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 267.036 | -6.8 | 120 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 47.323 | 5.4# | 107 | 0.00 |
| 13 | T | Acrolein | 250.000 | 261.435 | -4.6 | 106 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 45.886 | 8.2 | 100 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 241.006 | 3.6 | 109 | 0.00 |
| 16 | T | Acetone | 250.000 | 325.476 | -30.2# | 128 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 44.250 | 11.5 | 99 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 51.580 | -3.2 | 114 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 50.786 | -1.6 | 110 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 53.373 | -6.7 | 108 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 46.707 | 6.6 | 104 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 46.500 | 7.0 | 96 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 236.375 | 5.5 | 98 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 44.562 | 10.9 | 102 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 278.360 | -11.3 | 111 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 41.232 | 17.5 | 94 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 48.927 | 2.1 | 101 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 49.825 | 0.3 | 103 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 257.902 | -3.2 | 102 | 0.00 |
| 30 | C | Chloroform | 50.000 | 44.235 | 11.5# | 99 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 42.889 | 14.2 | 90 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 44.086 | 11.8 | 98 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 46.473 | 7.1 | 105 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 100 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 50.482 | -1.0 | 107 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 48.754 | 2.5 | 95 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 47.654 | 4.7 | 98 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 45.581 | 8.8 | 96 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 48.939 | 2.1 | 87 | 0.00 |
| 40 | TM | Benzene | 50.000 | 48.985 | 2.0 | 97 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 48.677 | 2.6 | 98 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 47.000 | 6.0 | 98 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 52.745 | -5.5 | 99 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 51.312 | -2.6 | 101 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 50.116 | -0.2# | 98 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 50.160 | -0.3 | 102 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 47.672 | 4.7 | 98 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 54.936 | -9.9 | 99 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039198.D
Acq On : 26 Sep 2025 09:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**LabSampleId :**
VSTDCCC050

Quant Time: Sep 27 02:48:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 1000.000 | 1229.438 | -22.9# | 120 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 50.021 | -0.0 | 104 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 273.983 | -9.6 | 99 | 0.00 |
| 52 | CM | Toluene | 50.000 | 52.600 | -5.2# | 98 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 54.120 | -8.2 | 100 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 53.795 | -7.6 | 99 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 49.741 | 0.5 | 103 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 60.567 | -21.1# | 103 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 51.050 | -2.1 | 101 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 257.371 | -2.9 | 100 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 266.941 | -6.8 | 104 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 50.091 | -0.2 | 103 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 52.515 | -5.0 | 104 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 57.366 | -14.7 | 110 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 99 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 49.940 | 0.1 | 100 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 49.953 | 0.1 | 99 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 49.105 | 1.8 | 100 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 54.765 | -9.5# | 96 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 115.152 | -15.2 | 97 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 58.277 | -16.6 | 98 | 0.00 |
| 70 | T | Styrene | 50.000 | 50.578 | -1.2 | 98 | 0.00 |
| 71 | P | Bromoform | 50.000 | 54.097 | -8.2 | 106 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 98 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 52.314 | -4.6 | 94 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 57.243 | -14.5 | 97 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 46.497 | 7.0 | 101 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 47.449 | 5.1 | 100 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 51.325 | -2.7 | 102 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 51.822 | -3.6 | 91 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 52.993 | -6.0 | 96 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 53.760 | -7.5 | 93 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 53.459 | -6.9 | 100 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 53.976 | -8.0 | 97 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 50.617 | -1.2 | 92 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 55.520 | -11.0 | 94 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 49.696 | 0.6 | 89 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 50.491 | -1.0 | 89 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 49.438 | 1.1 | 99 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 45.789 | 8.4 | 96 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 50.362 | -0.7 | 86 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 41.222 | 17.6 | 90 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 50.024 | -0.0 | 100 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 54.339 | -8.7 | 107 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 51.259 | -2.5 | 95 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 40.581 | 18.8 | 87 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 60.159 | -20.3# | 101 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039198.D
Acq On : 26 Sep 2025 09:20
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**LabSampleId :**
VSTDCCC050

Quant Time: Sep 27 02:48:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 52.133 | -4.3 | 96 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

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

## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance | Contract: TECH05

Lab Code: ACE | SDG No.: Q3195

Instrument ID: MSVOA_V | Calibration Date/Time: 09/29/2025 11:11

Lab File ID: VV039221.D | Init. Calib. Date(s): 09/22/2025 09/22/2025

Heated Purge: (Y/N) N | Init. Calib. Time(s): 12:26 16:35

GC Column: DB-624UI ID: 0.18 (mm)

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Dichlorodifluoromethane | 0.792 | 0.659 | | -16.79 | 20 |
| Chloromethane | 0.850 | 0.707 | 0.1 | -16.82 | 20 |
| Vinyl Chloride | 0.910 | 0.786 | | -13.63 | 20 |
| Bromomethane | 0.573 | 0.490 | | -14.48 | 20 |
| Chloroethane | 0.631 | 0.491 | | -22.19 | 20 |
| Trichlorofluoromethane | 1.317 | 1.189 | | -9.72 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.784 | 0.724 | | -7.65 | 20 |
| 1,1-Dichloroethene | 0.754 | 0.695 | | -7.82 | 20 |
| Acetone | 0.523 | 0.434 | | -17.02 | 20 |
| Carbon Disulfide | 2.306 | 1.828 | | -20.73 | 20 |
| Methyl tert-butyl Ether | 2.402 | 2.254 | | -6.16 | 20 |
| Methyl Acetate | 1.072 | 1.050 | | -2.05 | 20 |
| Methylene Chloride | 1.066 | 0.767 | | -28.05 | 20 |
| trans-1,2-Dichloroethene | 0.803 | 0.724 | | -9.84 | 20 |
| 1,1-Dichloroethane | 1.576 | 1.334 | 0.1 | -15.35 | 20 |
| Cyclohexane | 1.291 | 1.037 | | -19.67 | 20 |
| 2-Butanone | 0.579 | 0.558 | | -3.63 | 20 |
| Carbon Tetrachloride | 0.743 | 0.703 | | -5.38 | 20 |
| cis-1,2-Dichloroethene | 0.885 | 0.827 | | -6.55 | 20 |
| Bromochloromethane | 0.696 | 0.617 | | -11.35 | 20 |
| Chloroform | 1.645 | 1.392 | | -15.38 | 20 |
| 1,1,1-Trichloroethane | 1.424 | 1.220 | | -14.33 | 20 |
| Methylcyclohexane | 0.734 | 0.707 | | -3.68 | 20 |
| Benzene | 1.979 | 1.913 | | -3.34 | 20 |
| 1,2-Dichloroethane | 0.693 | 0.637 | | -8.08 | 20 |
| Trichloroethene | 0.457 | 0.476 | | 4.16 | 20 |
| 1,2-Dichloropropane | 0.492 | 0.485 | | -1.42 | 20 |
| Bromodichloromethane | 0.778 | 0.737 | | -5.27 | 20 |
| 4-Methyl-2-Pentanone | 0.661 | 0.717 | | 8.47 | 20 |
| Toluene | 1.147 | 1.217 | | 6.1 | 20 |
| t-1,3-Dichloropropene | 0.678 | 0.731 | | 7.82 | 20 |
| cis-1,3-Dichloropropene | 0.749 | 0.796 | | 6.28 | 20 |
| 1,1,2-Trichloroethane | 0.514 | 0.522 | | 1.56 | 20 |
| 2-Hexanone | 0.463 | 0.545 | | 17.71 | 20 |
| Dibromochloromethane | 0.586 | 0.600 | | 2.39 | 20 |
| 1,2-Dibromoethane | 0.526 | 0.548 | | 4.18 | 20 |
| Tetrachloroethene | 0.419 | 0.432 | | 3.1 | 20 |
| Chlorobenzene | 1.393 | 1.410 | 0.3 | 1.22 | 20 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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

## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: TECH05

Lab Code: ACE SDG No.: Q3195

Instrument ID: MSVOA_V Calibration Date/Time: 09/29/2025 11:11

Lab File ID: VV039221.D Init. Calib. Date(s): 09/22/2025 09/22/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:26 16:35

GC Column: DB-624UI ID: 0.18 (mm)

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Ethyl Benzene | 2.108 | 2.316 | | 9.87 | 20 |
| m/p-Xylenes | 0.814 | 0.942 | | 15.73 | 20 |
| o-Xylene | 0.720 | 0.851 | | 18.19 | 20 |
| Styrene | 1.263 | 1.571 | | 24.39 | 20 |
| Bromoform | 0.393 | 0.447 | 0.1 | 13.74 | 20 |
| Isopropylbenzene | 3.627 | 3.675 | | 1.32 | 20 |
| 1,1,2,2-Tetrachloroethane | 1.589 | 1.385 | 0.3 | -12.84 | 20 |
| 1,3-Dichlorobenzene | 1.904 | 1.869 | | -1.84 | 20 |
| 1,4-Dichlorobenzene | 2.089 | 1.939 | | -7.18 | 20 |
| 1,2-Dichlorobenzene | 1.779 | 1.743 | | -2.02 | 20 |
| 1,2-Dibromo-3-Chloropropane | 0.330 | 0.301 | | -8.79 | 20 |
| 1,2,4-Trichlorobenzene | 1.020 | 1.091 | | 6.96 | 20 |
| 1,2,3-Trichlorobenzene | 1.043 | 1.094 | | 4.89 | 20 |
| 1,2-Dichloroethane-d4 | 0.724 | 0.620 | | -14.36 | 20 |
| Dibromofluoromethane | 0.402 | 0.411 | | 2.24 | 20 |
| Toluene-d8 | 1.181 | 1.144 | | -3.13 | 20 |
| 4-Bromofluorobenzene | 0.486 | 0.554 | | 13.99 | 20 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039221.D
Acq On : 29 Sep 2025 11:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Quant Time: Sep 30 01:18:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.596 | 168 | 564484 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.532 | 114 | 842301 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.773 | 117 | 811375 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.172 | 152 | 505725 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.941 | 65 | 349728 | 42.808 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | | Recovery = 85.620% | | |
| 35) Dibromofluoromethane | 4.497 | 113 | 346022 | 51.100 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | | Recovery = 102.200% | | |
| 50) Toluene-d8 | 7.233 | 98 | 963722 | 48.458 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | | Recovery = 96.920% | | |
| 62) 4-Bromofluorobenzene | 10.001 | 95 | 466775 | 57.013 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | | Recovery = 114.020%# | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.121 | 85 | 372146 | 41.647 | ug/l | 98 |
| 3) Chloromethane | 1.227 | 50 | 399012 | 41.595 | ug/l | 100 |
| 4) Vinyl Chloride | 1.294 | 62 | 443737 | 43.208 | ug/l | 99 |
| 5) Bromomethane | 1.494 | 94 | 276563 | 42.719 | ug/l | 100 |
| 6) Chloroethane | 1.558 | 64 | 277414 | 45.569 | ug/l | 98 |
| 7) Trichlorofluoromethane | 1.722 | 101 | 671148 | 45.139 | ug/l | 99 |
| 8) Diethyl Ether | 1.918 | 74 | 248163 | 44.959 | ug/l | 94 |
| 9) 1,1,2-Trichlorotrifluo... | 2.079 | 101 | 408668 | 46.193 | ug/l | 96 |
| 10) Methyl Iodide | 2.195 | 142 | 433468 | 51.451 | ug/l | 98 |
| 11) Tert butyl alcohol | 2.571 | 59 | 443947 | 257.107 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 2.079 | 96 | 392230 | 46.086 | ug/l | 89 |
| 13) Acrolein | 2.008 | 56 | 67411 | 224.989 | ug/l | 98 |
| 14) Allyl chloride | 2.355 | 41 | 668296 | 43.958 | ug/l | 96 |
| 15) Acrylonitrile | 2.674 | 53 | 1243040 | 224.569 | ug/l | 99 |
| 16) Acetone | 2.118 | 43 | 1224774 | 241.983 | ug/l | 97 |
| 17) Carbon Disulfide | 2.249 | 76 | 1031891 | 39.644 | ug/l | 99 |
| 18) Methyl Acetate | 2.378 | 43 | 592823 | 48.974 | ug/l | 97 |
| 19) Methyl tert-butyl Ether | 2.712 | 73 | 1272065 | 46.904 | ug/l | 98 |
| 20) Methylene Chloride | 2.455 | 84 | 432857 | 48.961 | ug/l | 93 |
| 21) trans-1,2-Dichloroethene | 2.699 | 96 | 408823 | 45.121 | ug/l | 97 |
| 22) Diisopropyl ether | 3.214 | 45 | 1269043 | 43.628 | ug/l | 94 |
| 23) Vinyl Acetate | 3.188 | 43 | 5603106 | 220.202 | ug/l | 96 |
| 24) 1,1-Dichloroethane | 3.114 | 63 | 752929 | 42.328 | ug/l | 99 |
| 25) 2-Butanone | 3.867 | 43 | 1573946 | 240.588 | ug/l | 96 |
| 26) 2,2-Dichloropropane | 3.809 | 77 | 655070 | 41.534 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 3.815 | 96 | 466569 | 46.691 | ug/l | 96 |
| 28) Bromochloromethane | 4.143 | 49 | 348213 | 44.343 | ug/l | 90 |
| 29) Tetrahydrofuran | 4.236 | 42 | 984175 | 240.344 | ug/l | 96 |
| 30) Chloroform | 4.275 | 83 | 785637 | 42.297 | ug/l | 99 |
| 31) Cyclohexane | 4.580 | 56 | 585623 | 40.190 | ug/l | 100 |
| 32) 1,1,1-Trichloroethane | 4.510 | 97 | 688441 | 42.812 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 4.741 | 75 | 497503 | 48.595 | ug/l | 98 |
| 37) Ethyl Acetate | 3.973 | 43 | 587710 | 47.309 | ug/l | 97 |
| 38) Carbon Tetrachloride | 4.732 | 117 | 592185 | 47.329 | ug/l | 99 |
| 39) Methylcyclohexane | 6.043 | 83 | 595570 | 48.172 | ug/l | 99 |
| 40) Benzene | 5.005 | 78 | 1611342 | 48.334 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039221.D
Acq On : 29 Sep 2025 11:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Quant Time: Sep 30 01:18:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.156 | 41 | 270101 | 48.162 | ug/l | | 98 |
| 42) 1,2-Dichloroethane | 5.037 | 62 | 536537 | 45.932 | ug/l | | 98 |
| 43) Isopropyl Acetate | 5.191 | 43 | 863524 | 50.981 | ug/l | | 97 |
| 44) Trichloroethene | 5.828 | 130 | 401095 | 52.139 | ug/l | | 100 |
| 45) 1,2-Dichloropropane | 6.088 | 63 | 408473 | 49.295 | ug/l | | 97 |
| 46) Dibromomethane | 6.223 | 93 | 311150 | 49.060 | ug/l | | 93 |
| 47) Bromodichloromethane | 6.423 | 83 | 620639 | 47.336 | ug/l | | 98 |
| 48) Methyl methacrylate | 6.294 | 41 | 410277 | 53.435 | ug/l | | 96 |
| 49) 1,4-Dioxane | 6.291 | 88 | 135545 | 1093.922 | ug/l | | 95 |
| 51) 4-Methyl-2-Pentanone | 7.146 | 43 | 3020119 | 271.028 | ug/l | | 97 |
| 52) Toluene | 7.307 | 92 | 1025430 | 53.051 | ug/l | | 97 |
| 53) t-1,3-Dichloropropene | 7.571 | 75 | 616048 | 53.914 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 6.947 | 75 | 670138 | 53.126 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 7.760 | 97 | 439583 | 50.719 | ug/l | | 97 |
| 56) Ethyl methacrylate | 7.715 | 69 | 605076 | 58.788 | ug/l | | 96 |
| 57) 1,3-Dichloropropane | 7.934 | 76 | 688890 | 50.365 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 6.809 | 63 | 1364182 | 235.318 | ug/l | | 96 |
| 59) 2-Hexanone | 8.063 | 43 | 2296121 | 255.225 | ug/l | | 96 |
| 60) Dibromochloromethane | 8.165 | 129 | 505143 | 51.151 | ug/l | | 98 |
| 61) 1,2-Dibromoethane | 8.272 | 107 | 461742 | 52.094 | ug/l | | 98 |
| 64) Tetrachloroethene | 7.895 | 164 | 350917 | 51.636 | ug/l | | 98 |
| 65) Chlorobenzene | 8.802 | 112 | 1143668 | 50.604 | ug/l | | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 8.895 | 131 | 419675 | 51.392 | ug/l | | 99 |
| 67) Ethyl Benzene | 8.937 | 91 | 1879090 | 54.927 | ug/l | | 99 |
| 68) m/p-Xylenes | 9.063 | 106 | 1528923 | 115.793 | ug/l | | 100 |
| 69) o-Xylene | 9.468 | 106 | 690511 | 59.062 | ug/l | | 97 |
| 70) Styrene | 9.484 | 104 | 1274646 | 51.432 | ug/l | | 99 |
| 71) Bromoform | 9.654 | 173 | 362804 | 56.878 | ug/l | # | 99 |
| 73) Isopropylbenzene | 9.857 | 105 | 1858552 | 50.669 | ug/l | | 99 |
| 74) N-amyl acetate | 9.725 | 43 | 774283 | 52.920 | ug/l | | 96 |
| 75) 1,1,2,2-Tetrachloroethane | 10.165 | 83 | 700437 | 43.582 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 10.198 | 75 | 533949 | 46.372 | ug/l | | 99 |
| 77) Bromobenzene | 10.140 | 156 | 482692 | 50.721 | ug/l | | 94 |
| 78) n-propylbenzene | 10.278 | 91 | 2253738 | 50.455 | ug/l | | 98 |
| 79) 2-Chlorotoluene | 10.345 | 91 | 1360520 | 50.902 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 10.464 | 105 | 1608070 | 52.744 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 9.927 | 75 | 244133 | 50.900 | ug/l | | 97 |
| 82) 4-Chlorotoluene | 10.461 | 91 | 1628242 | 52.536 | ug/l | | 99 |
| 83) tert-Butylbenzene | 10.789 | 119 | 1531883 | 50.388 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 10.837 | 105 | 1609100 | 54.363 | ug/l | | 99 |
| 85) sec-Butylbenzene | 11.011 | 105 | 1975626 | 48.994 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 11.165 | 119 | 1687605 | 50.284 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 11.104 | 146 | 945060 | 49.068 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 11.198 | 146 | 980757 | 46.414 | ug/l | | 99 |
| 89) n-Butylbenzene | 11.580 | 91 | 1584773 | 49.442 | ug/l | | 99 |
| 90) Hexachloroethane | 11.821 | 117 | 340207 | 41.164 | ug/l | | 94 |
| 91) 1,2-Dichlorobenzene | 11.567 | 146 | 881445 | 48.984 | ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.352 | 75 | 152326 | 52.555 | ug/l | | 93 |
| 93) 1,2,4-Trichlorobenzene | 13.185 | 180 | 551570 | 53.472 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 13.368 | 225 | 227281 | 42.405 | ug/l | | 99 |
| 95) Naphthalene | 13.426 | 128 | 1952932 | 58.576 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 13.667 | 180 | 553227 | 52.439 | ug/l | | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039221.D
Acq On : 29 Sep 2025 11:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Quant Time: Sep 30 01:18:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

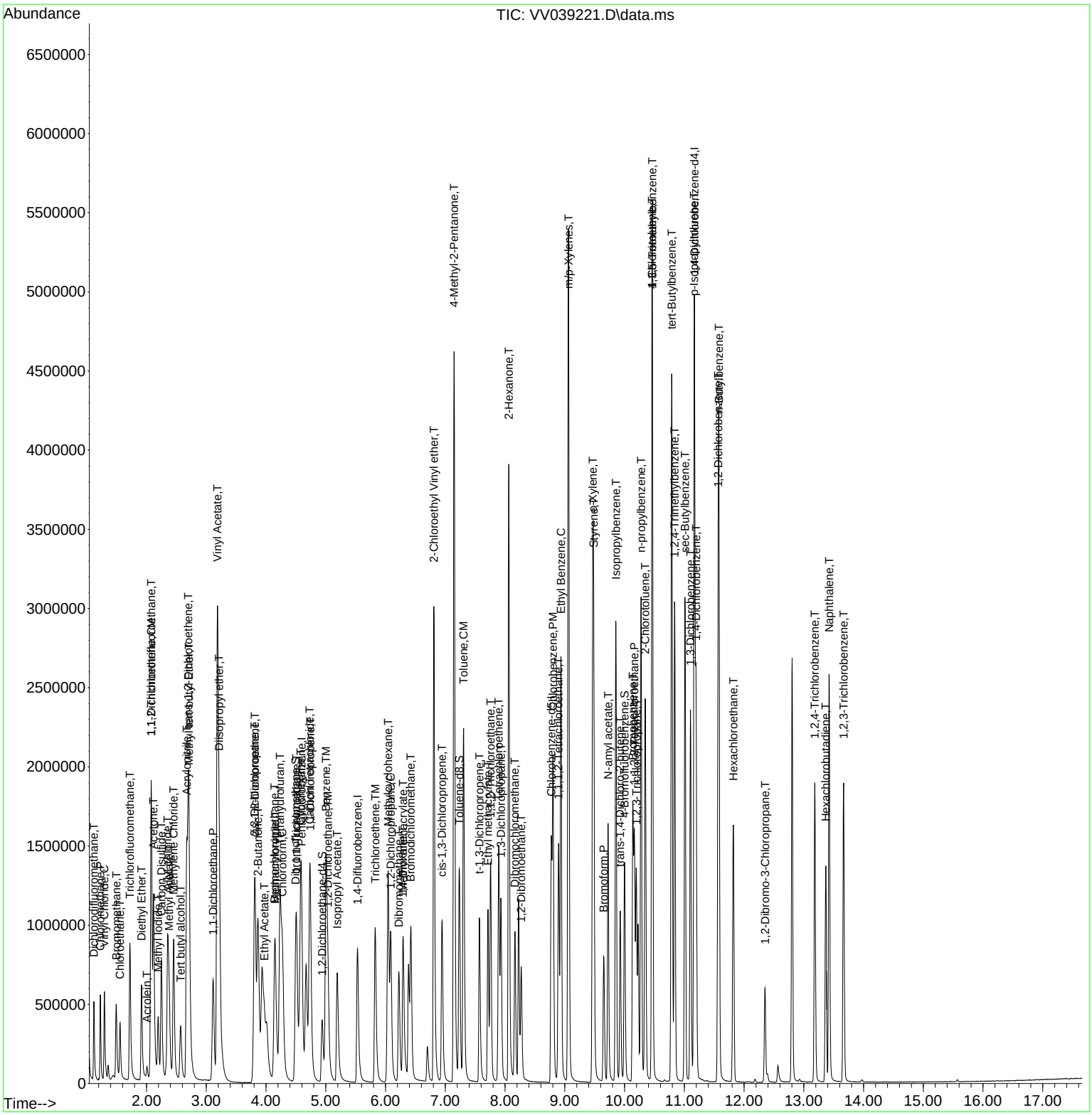
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

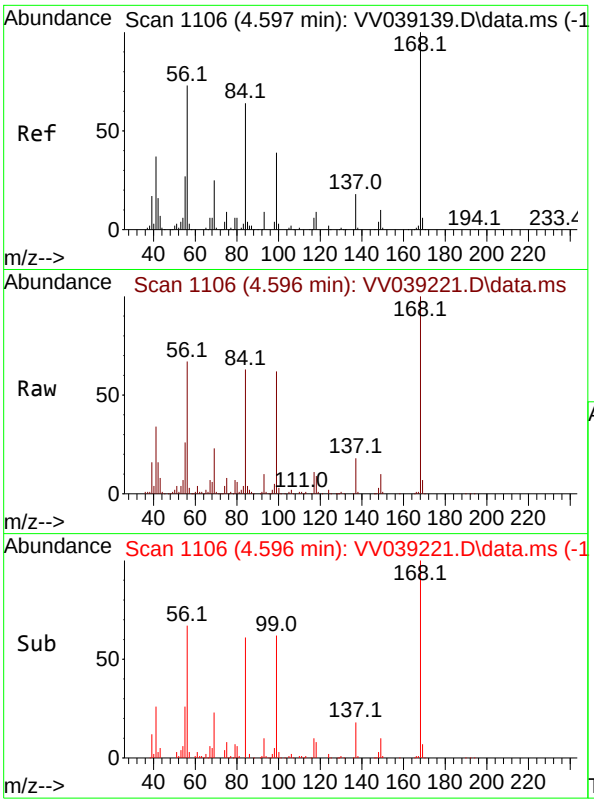
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039221.D
Acq On : 29 Sep 2025 11:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Quant Time: Sep 30 01:18:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



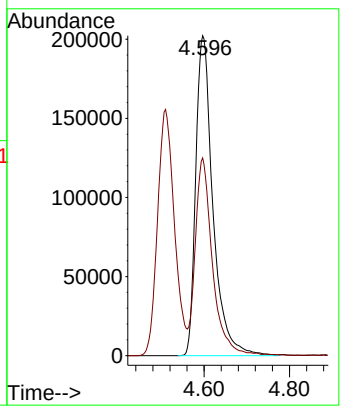


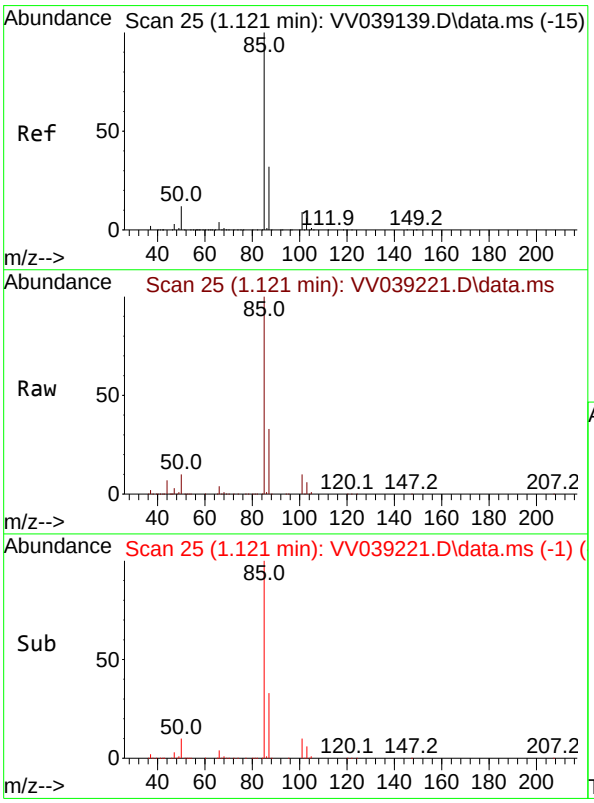

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.596 min Scan# 11
Delta R.T. -0.001 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:168 Resp: 564484

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 61.5 | 49.6 | 74.4 |

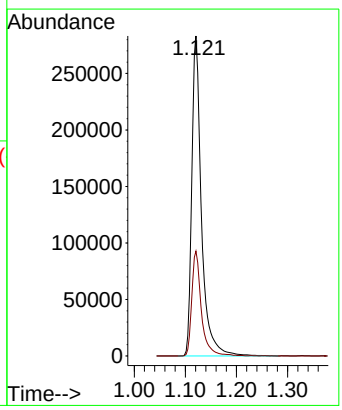


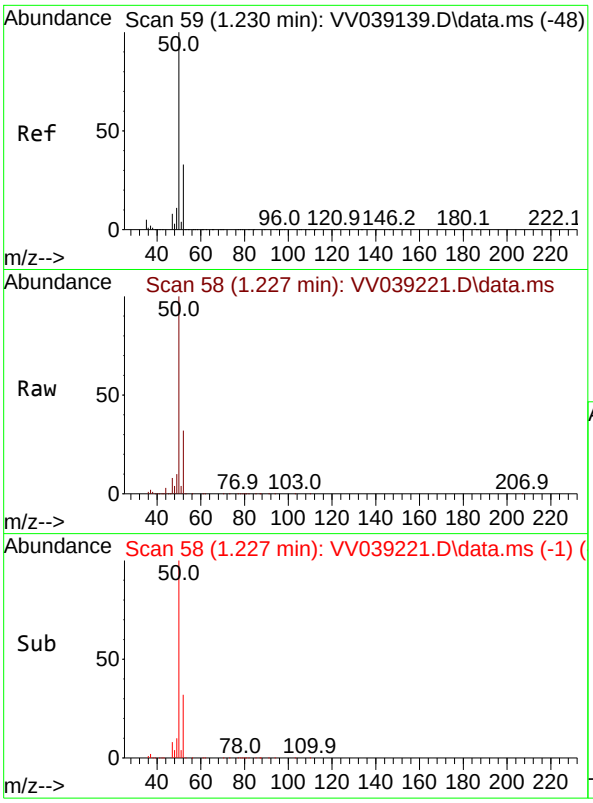




#2
Dichlorodifluoromethane
Concen: 41.647 ug/l
RT: 1.121 min Scan# 25
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 85 Resp: 372146

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.8 | 16.0 | 47.9 |



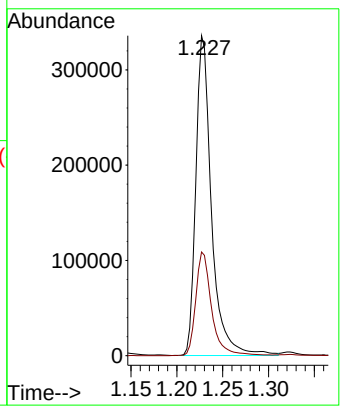


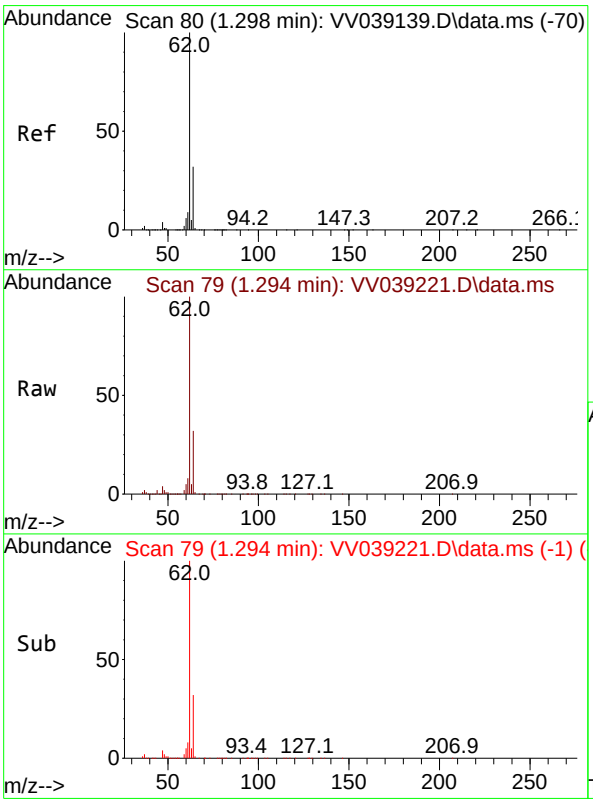

#3
Chloromethane
Concen: 41.595 ug/l
RT: 1.227 min Scan# 5
Delta R.T. -0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 50 Resp: 399012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.4 | 26.0 | 39.0 |

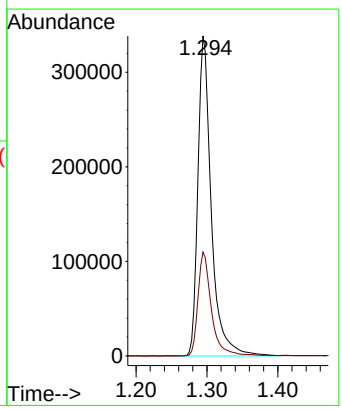


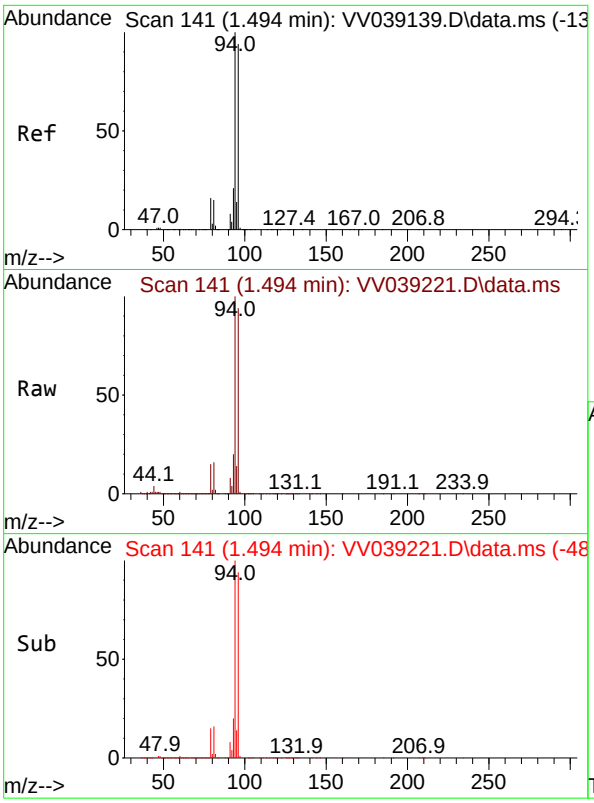




#4
Vinyl Chloride
Concen: 43.208 ug/l
RT: 1.294 min Scan# 79
Delta R.T. -0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 62 Resp: 443737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.4 | 25.6 | 38.4 |



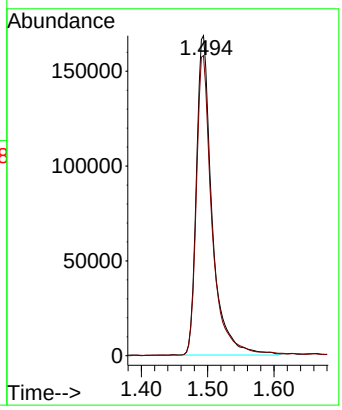


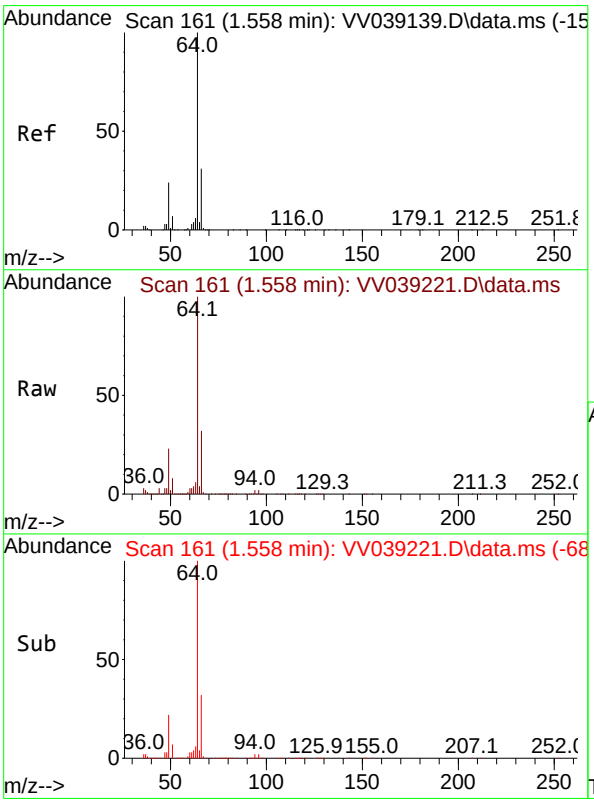

#5
Bromomethane
Concen: 42.719 ug/l
RT: 1.494 min Scan# 14
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 94 Resp: 276563

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 93.7 | 74.9 | 112.3 |

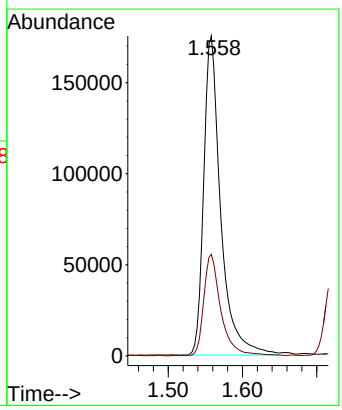


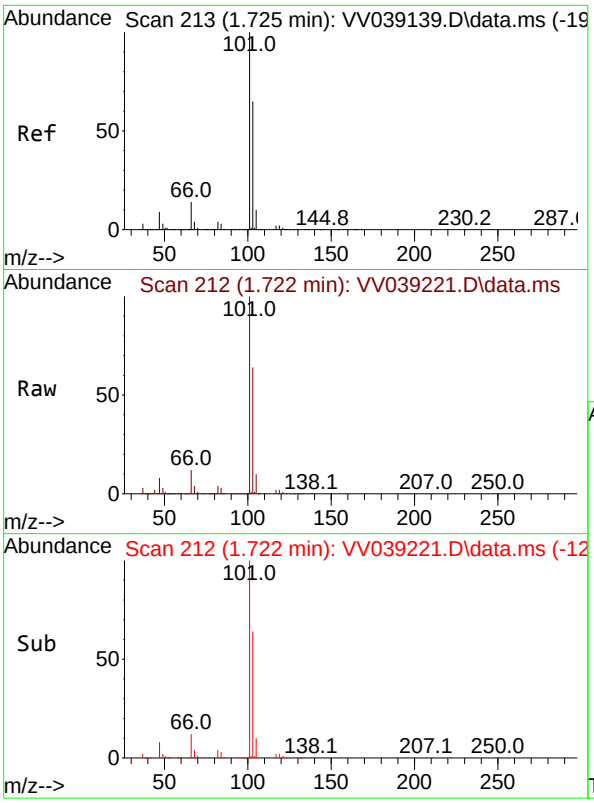




#6
Chloroethane
Concen: 45.569 ug/l
RT: 1.558 min Scan# 161
Delta R.T. 0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 64 Resp: 277414

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.7 | 24.6 | 36.8 |



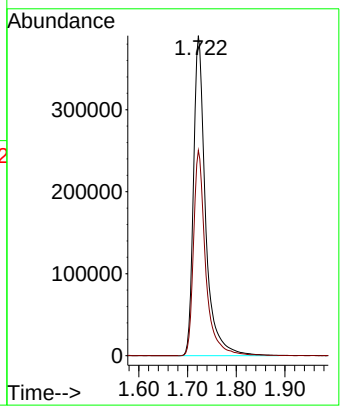


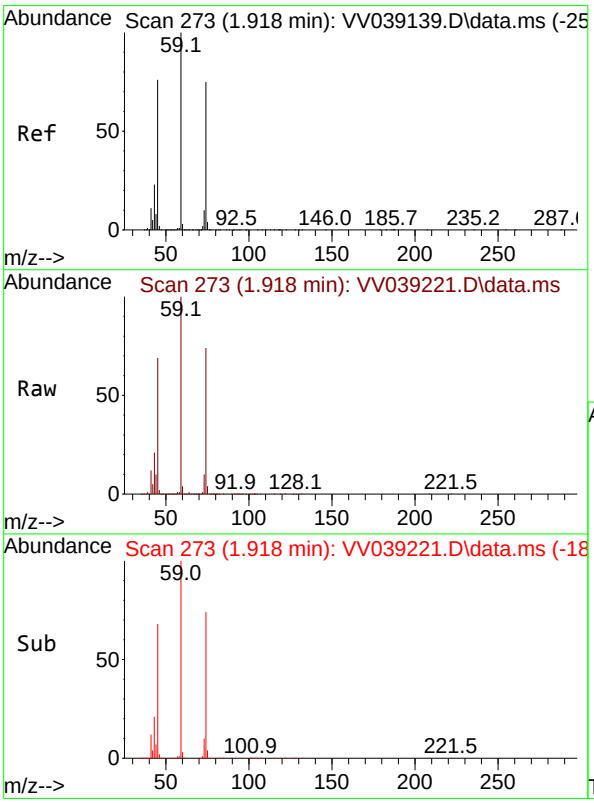

#7
Trichlorofluoromethane
Concen: 45.139 ug/l
RT: 1.722 min Scan# 21
Delta R.T. -0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:101 Resp: 671148

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.2 | 52.0 | 78.0 |

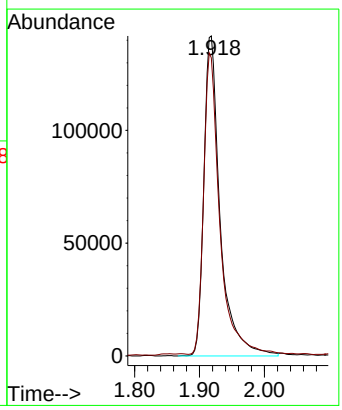


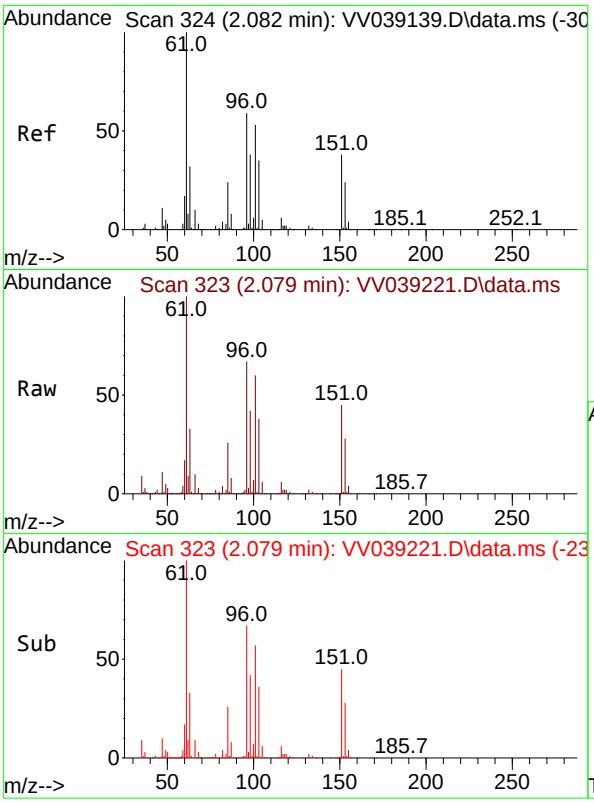




#8
Diethyl Ether
Concen: 44.959 ug/l
RT: 1.918 min Scan# 273
Delta R.T. 0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 74 Resp: 248163

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 92.9 | 49.6 | 148.8 |



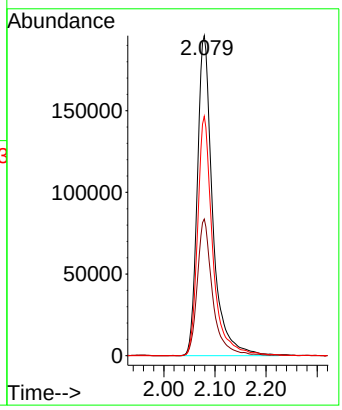


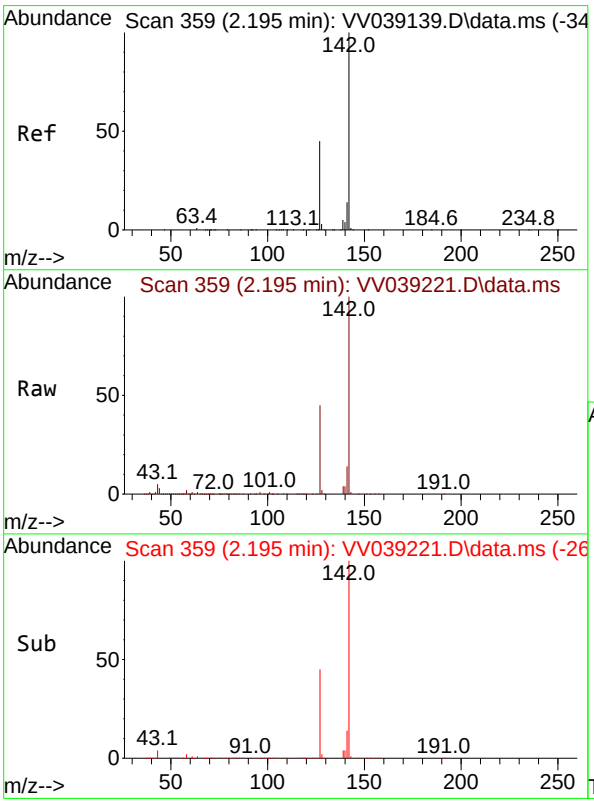

#9
1,1,2-Trichlorotrifluoroethane
Concen: 46.193 ug/l
RT: 2.079 min Scan# 3
Delta R.T. -0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:101 Resp: 408668

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 42.7 | 36.2 | 54.2 |
| 151 | 73.4 | 56.3 | 84.5 |

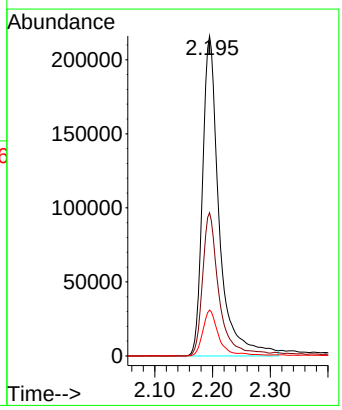


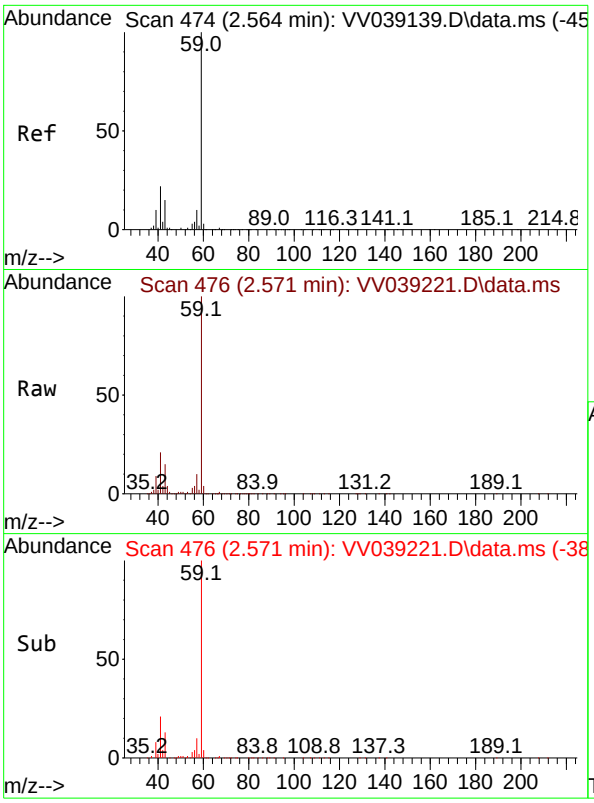




#10
Methyl Iodide
Concen: 51.451 ug/l
RT: 2.195 min Scan# 359
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion:142 Resp: 433468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 44.3 | 36.3 | 54.5 |
| 141 | 13.1 | 11.2 | 16.8 |



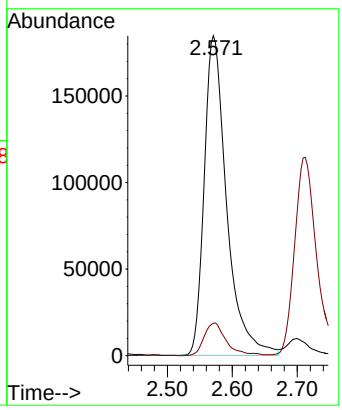


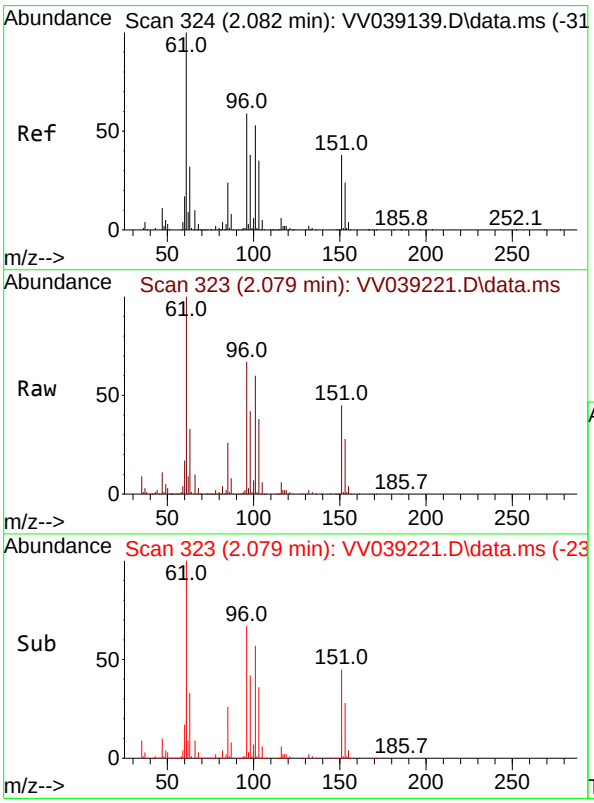

#11
Tert butyl alcohol
Concen: 257.107 ug/l
RT: 2.571 min Scan# 4
Delta R.T. 0.006 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 59 Resp: 443947

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.2 | 7.8 | 11.8 |

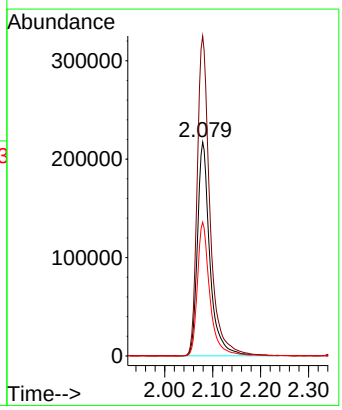


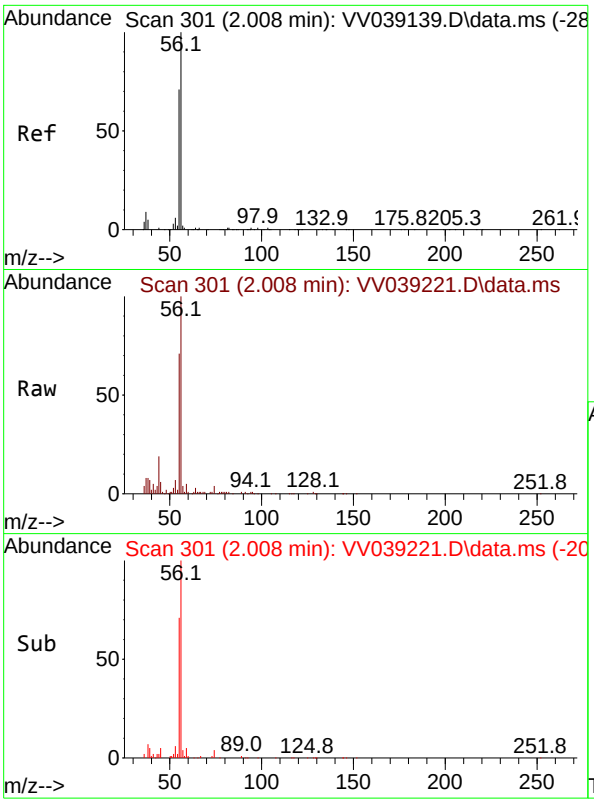




#12
1,1-Dichloroethene
Concen: 46.086 ug/l
RT: 2.079 min Scan# 323
Delta R.T. -0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 96 Resp: 392230

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 149.7 | 136.0 | 204.0 |
| 98 | 62.5 | 51.0 | 76.6 |



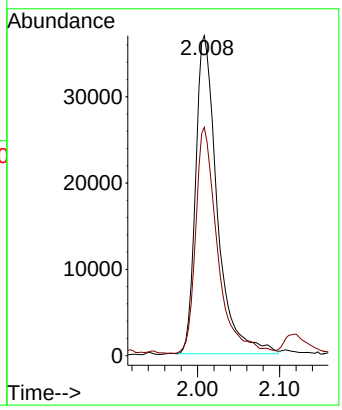


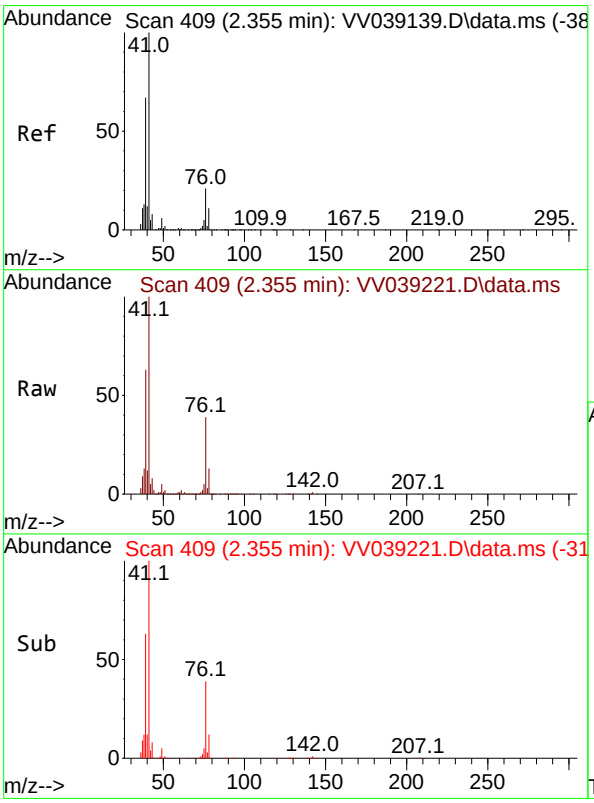

#13
Acrolein
Concen: 224.989 ug/l
RT: 2.008 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 56 Resp: 67411

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 71.8 | 56.2 | 84.4 |

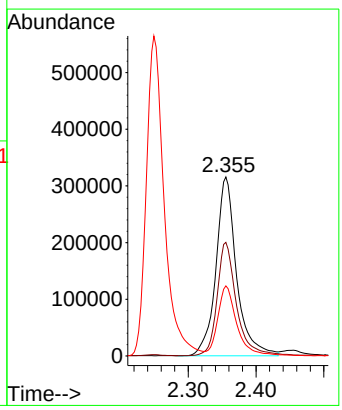


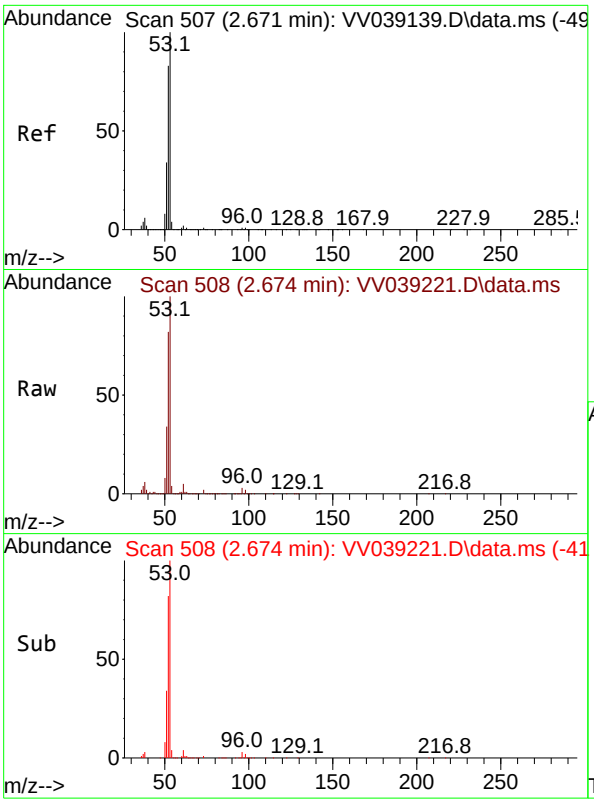




#14
Allyl chloride
Concen: 43.958 ug/l
RT: 2.355 min Scan# 409
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 41 Resp: 668296

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 59.3 | 51.0 | 76.6 |
| 76 | 36.1 | 28.2 | 42.4 |



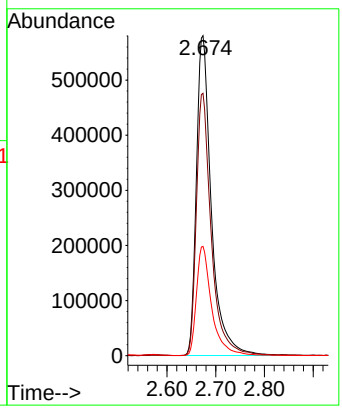


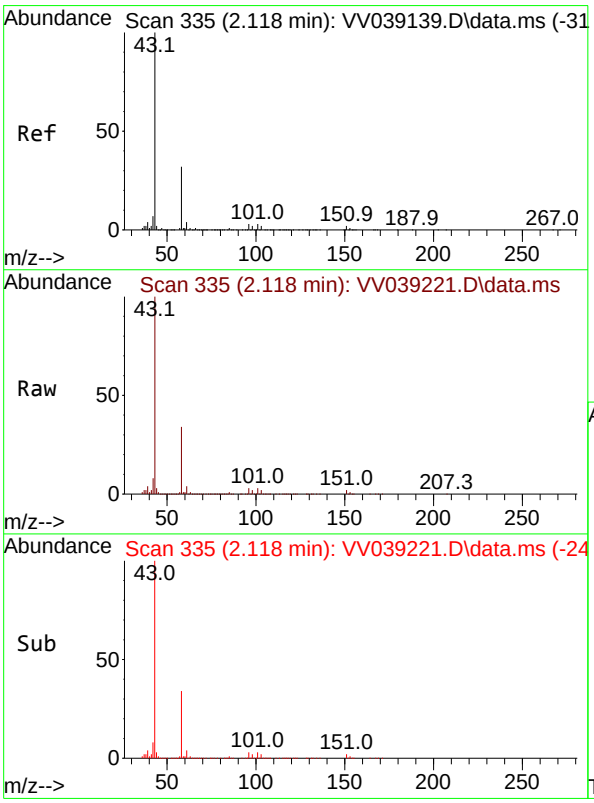

#15
Acrylonitrile
Concen: 224.569 ug/l
RT: 2.674 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 53 Resp: 1243040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.4 | 66.1 | 99.1 |
| 51 | 34.7 | 28.5 | 42.7 |

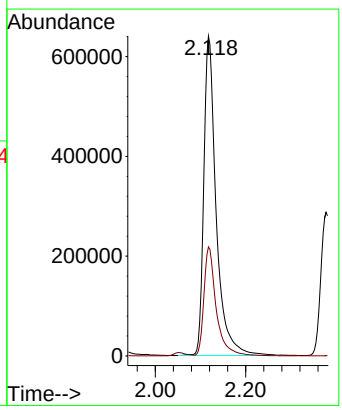


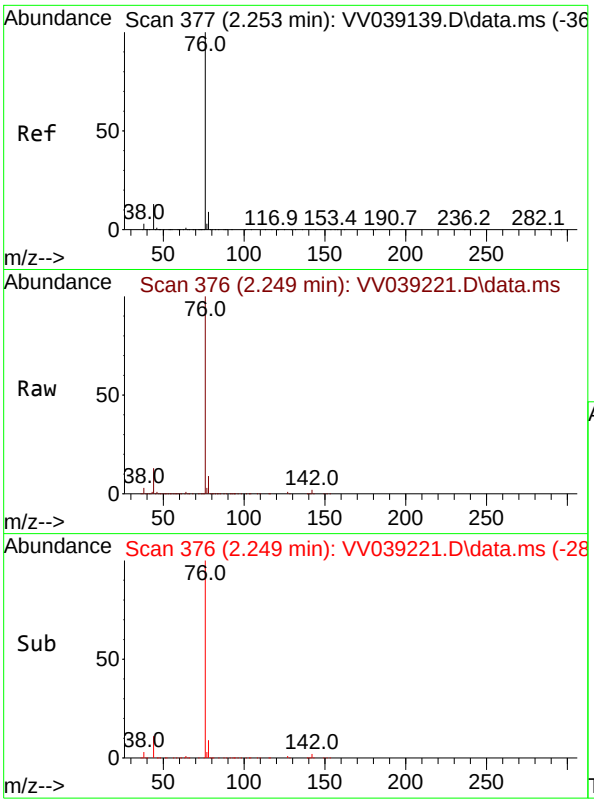




#16
Acetone
Concen: 241.983 ug/l
RT: 2.118 min Scan# 335
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 43 Resp: 1224774

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 34.1 | 25.8 | 38.6 |



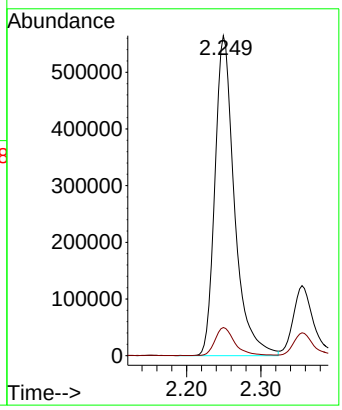


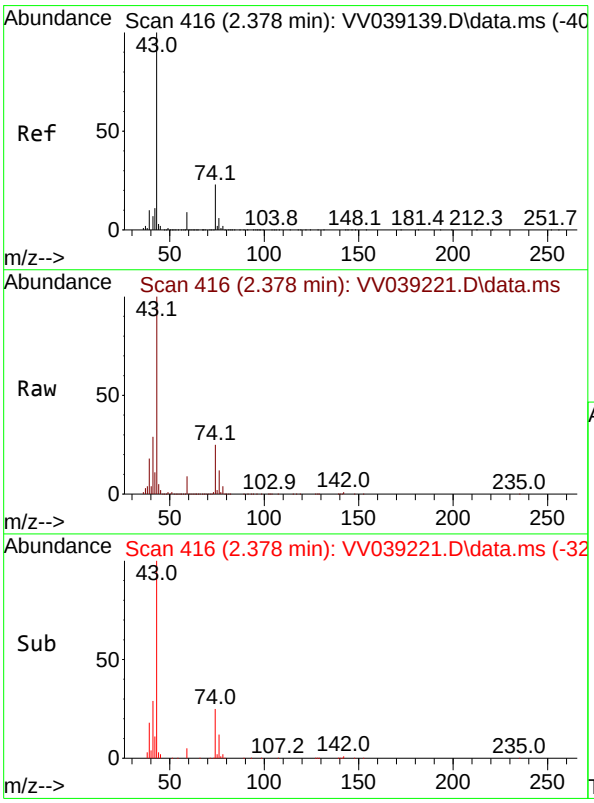

#17
Carbon Disulfide
Concen: 39.644 ug/l
RT: 2.249 min Scan# 3
Delta R.T. -0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 76 Resp: 1031891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.7 | 7.4 | 11.0 |

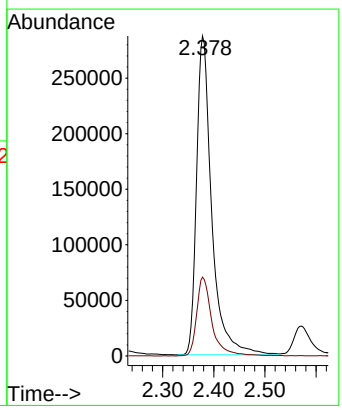


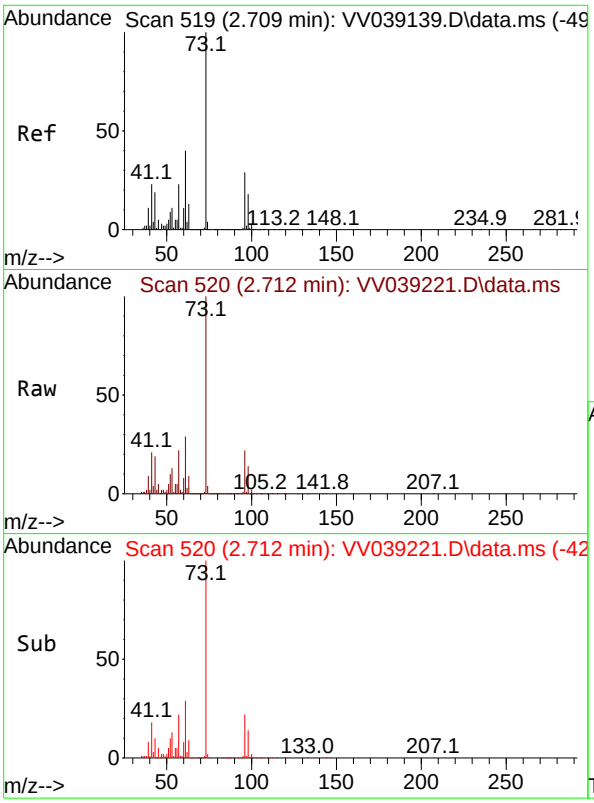




#18
Methyl Acetate
Concen: 48.974 ug/l
RT: 2.378 min Scan# 416
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 43 Resp: 592823

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 24.8 | 18.6 | 27.8 |



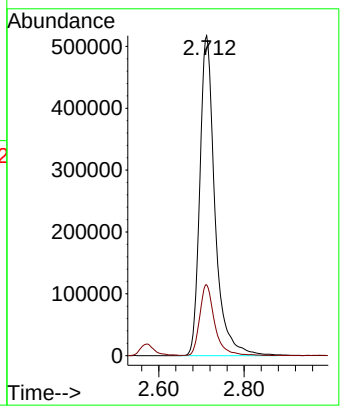


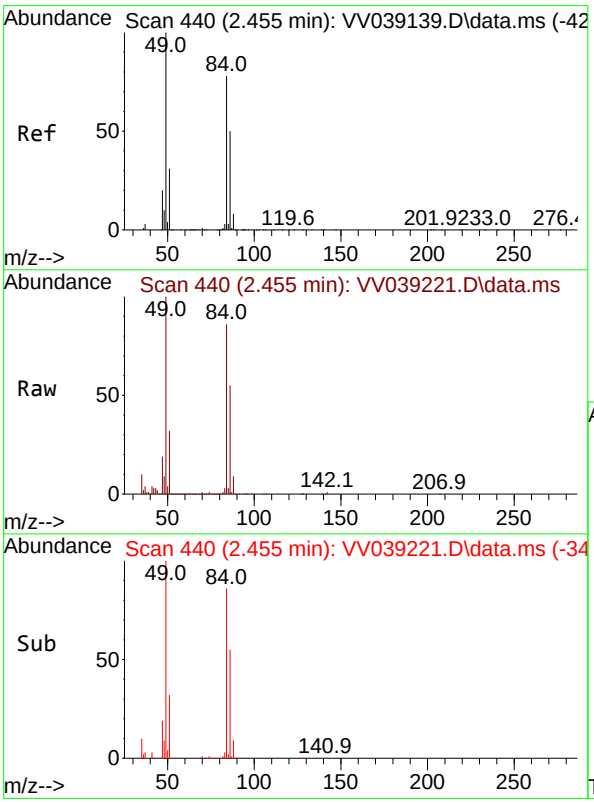

#19
Methyl tert-butyl Ether
Concen: 46.904 ug/l
RT: 2.712 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 73 Resp: 1272065

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.1 | 18.2 | 27.4 |

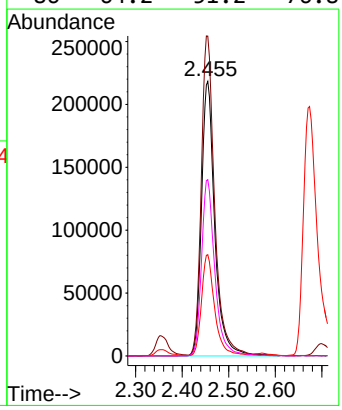


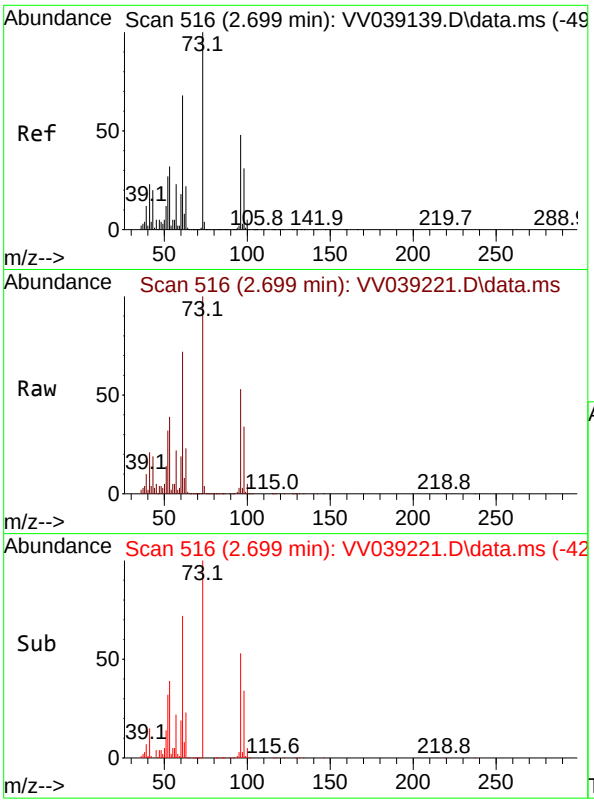




#20
Methylene Chloride
Concen: 48.961 ug/l
RT: 2.455 min Scan# 440
Delta R.T. 0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 84 Resp: 432857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 116.4 | 102.8 | 154.2 |
| 51 | 36.6 | 31.9 | 47.9 |
| 86 | 64.2 | 51.2 | 76.8 |



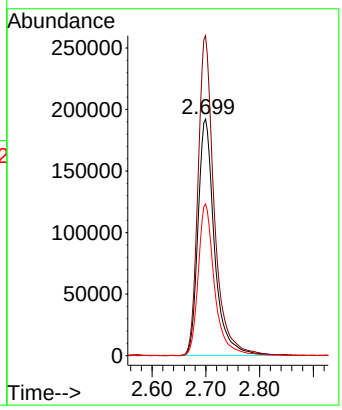


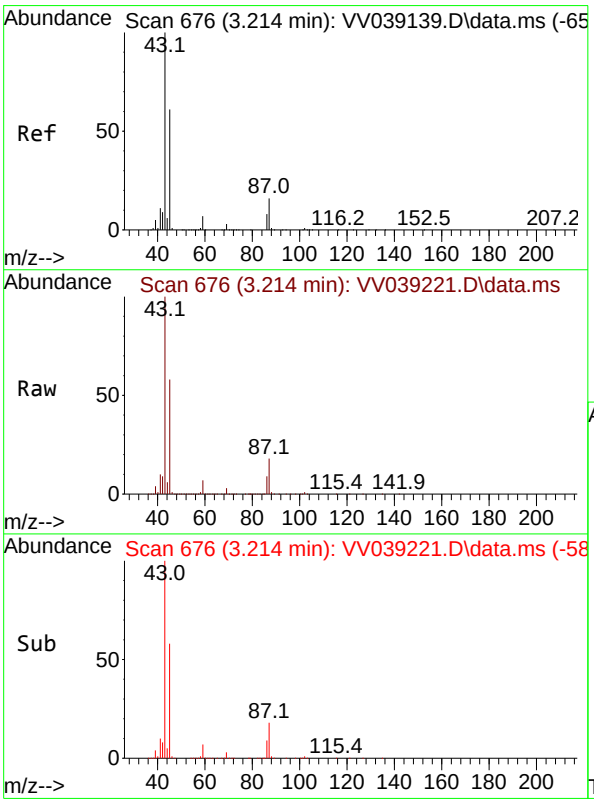

#21
trans-1,2-Dichloroethene
Concen: 45.121 ug/l
RT: 2.699 min Scan# 5
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 96 Resp: 408823

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 135.3 | 112.8 | 169.2 |
| 98 | 64.1 | 51.1 | 76.7 |

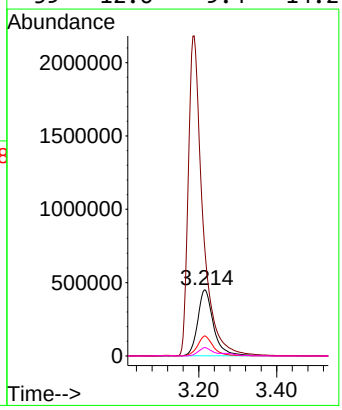


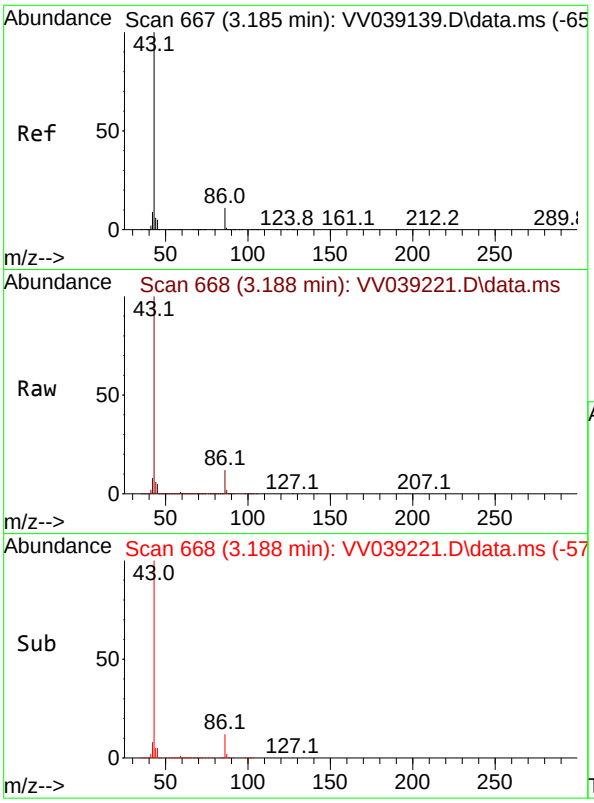




#22
Diisopropyl ether
Concen: 43.628 ug/l
RT: 3.214 min Scan# 676
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 45 Resp: 1269043

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 172.3 | 130.9 | 196.3 |
| 87 | 30.2 | 21.1 | 31.7 |
| 59 | 12.6 | 9.4 | 14.2 |



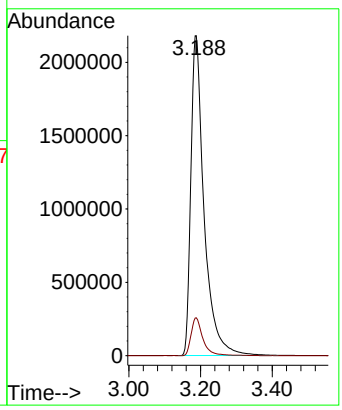


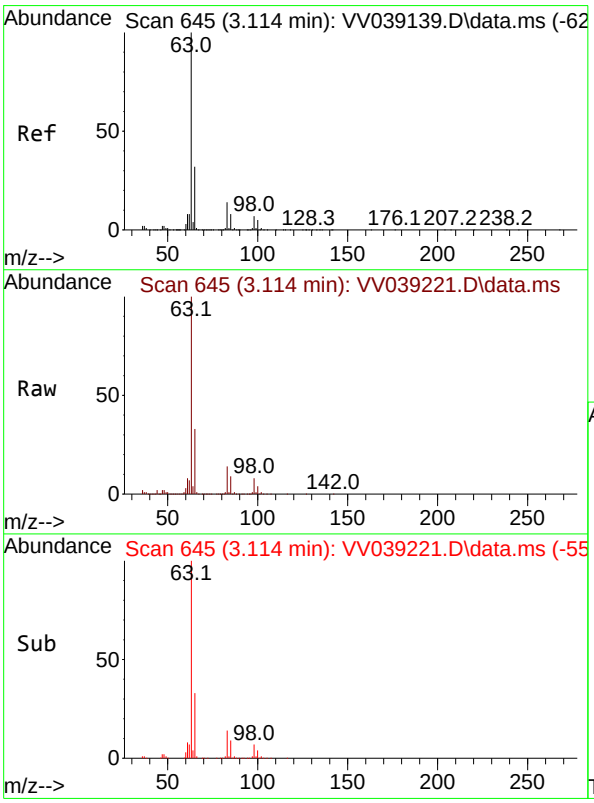

#23
Vinyl Acetate
Concen: 220.202 ug/l
RT: 3.188 min Scan# 6
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 5603106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.8 | 8.4 | 12.6 |

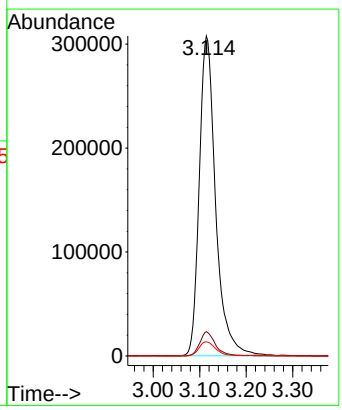


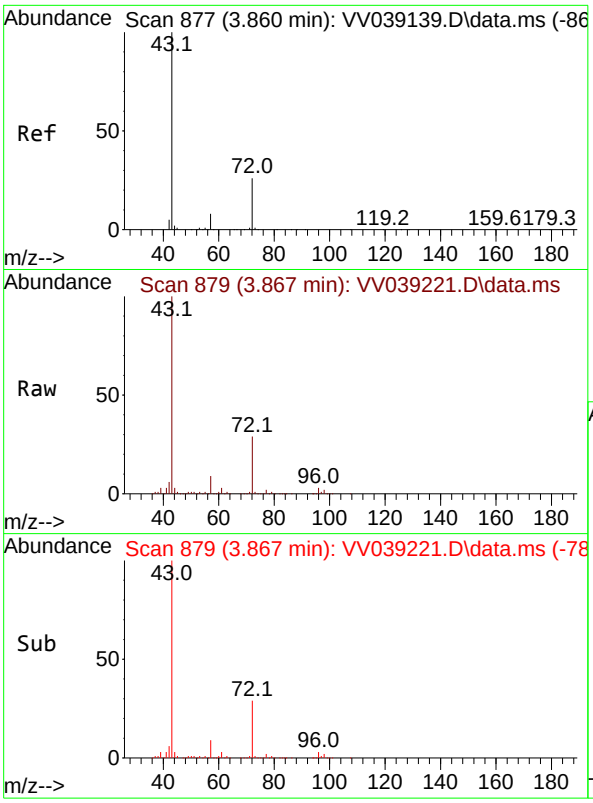




#24
1,1-Dichloroethane
Concen: 42.328 ug/l
RT: 3.114 min Scan# 645
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 63 Resp: 752929

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.6 | 3.4 | 10.2 |
| 100 | 4.4 | 2.2 | 6.6 |



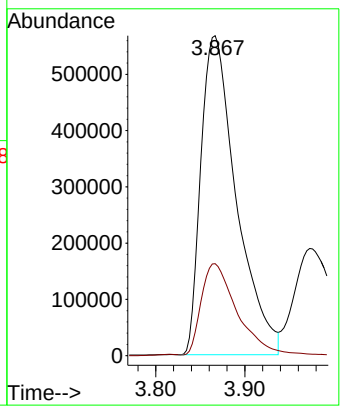


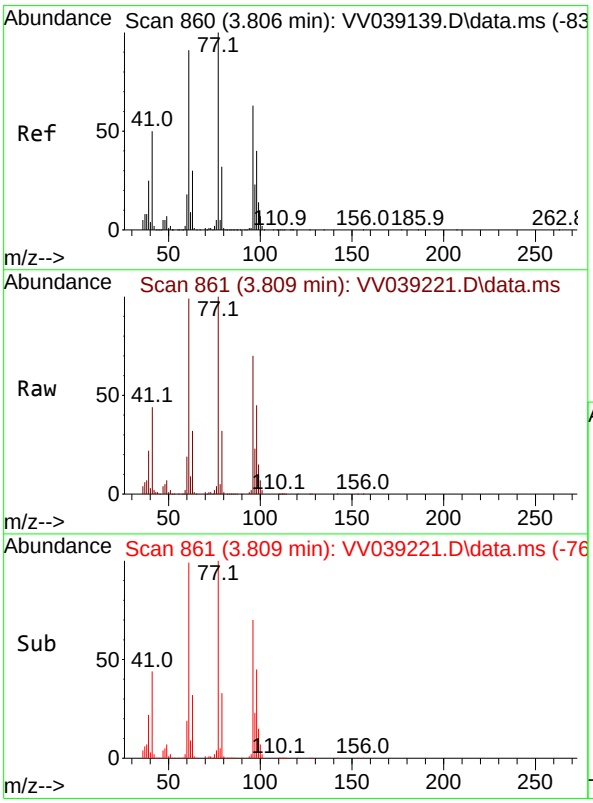

#25
2-Butanone
Concen: 240.588 ug/l
RT: 3.867 min Scan# 8
Delta R.T. 0.006 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 1573946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 28.5 | 21.0 | 31.6 |

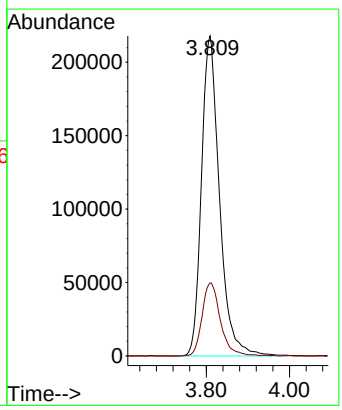


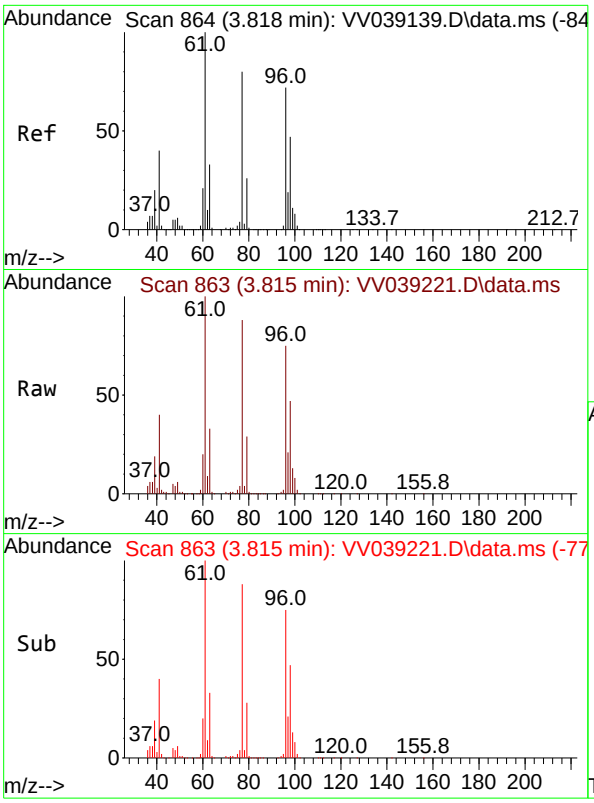




#26
2,2-Dichloropropane
Concen: 41.534 ug/l
RT: 3.809 min Scan# 861
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 77 Resp: 655070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.2 | 11.6 | 34.7 |



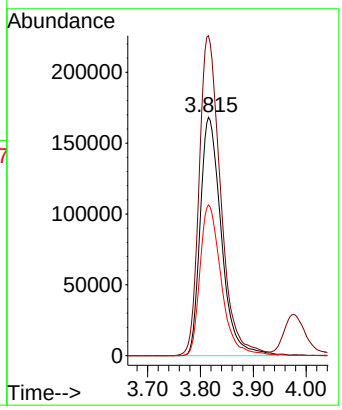


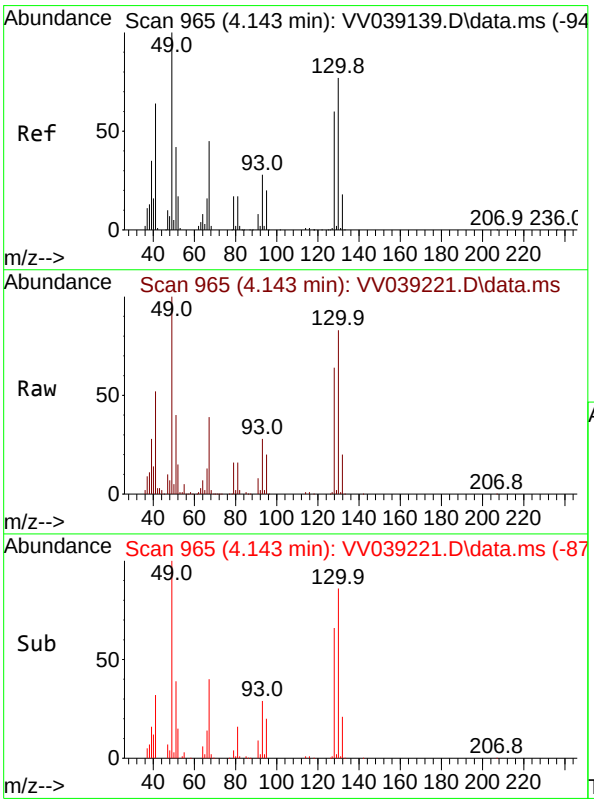

#27
cis-1,2-Dichloroethene
Concen: 46.691 ug/l
RT: 3.815 min Scan# 8
Delta R.T. -0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 96 Resp: 466569

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 136.8 | 0.0 | 286.4 |
| 98 | 63.8 | 0.0 | 126.6 |

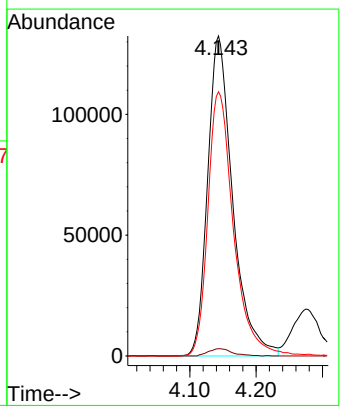


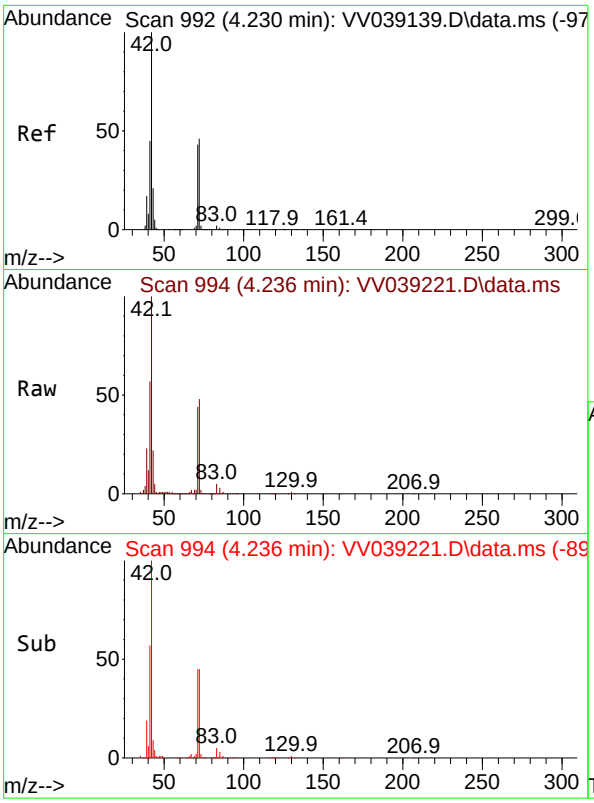




#28
Bromochloromethane
Concen: 44.343 ug/l
RT: 4.143 min Scan# 965
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 49 Resp: 348213

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.2 | 0.0 | 4.2 |
| 130 | 84.3 | 60.2 | 90.2 |



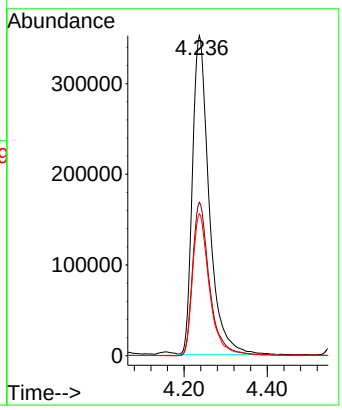


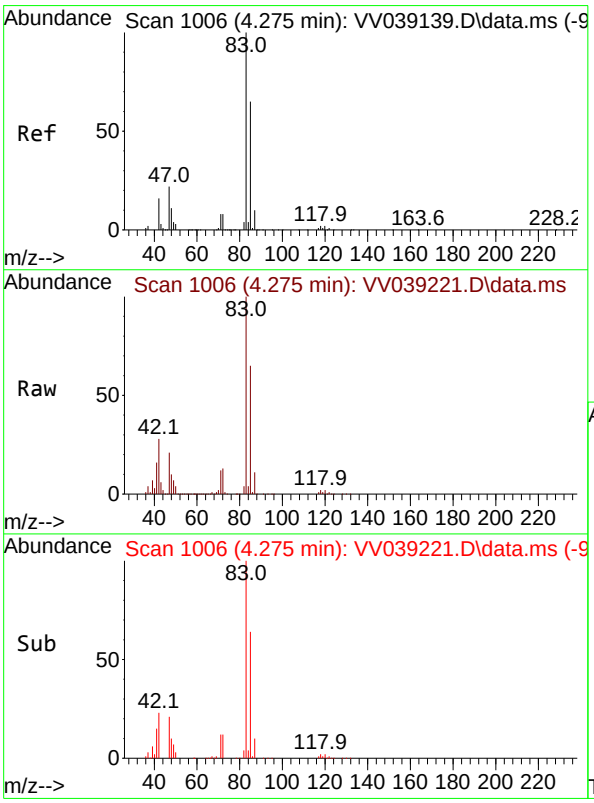

#29
Tetrahydrofuran
Concen: 240.344 ug/l
RT: 4.236 min Scan# 9
Delta R.T. 0.006 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 42 Resp: 984175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 48.3 | 36.3 | 54.5 |
| 71 | 44.8 | 34.3 | 51.5 |

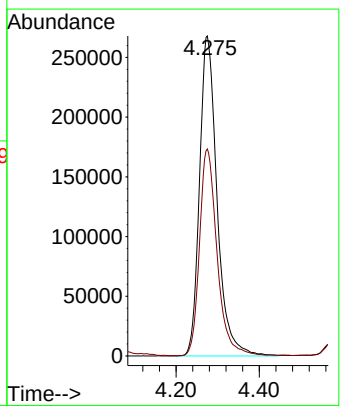


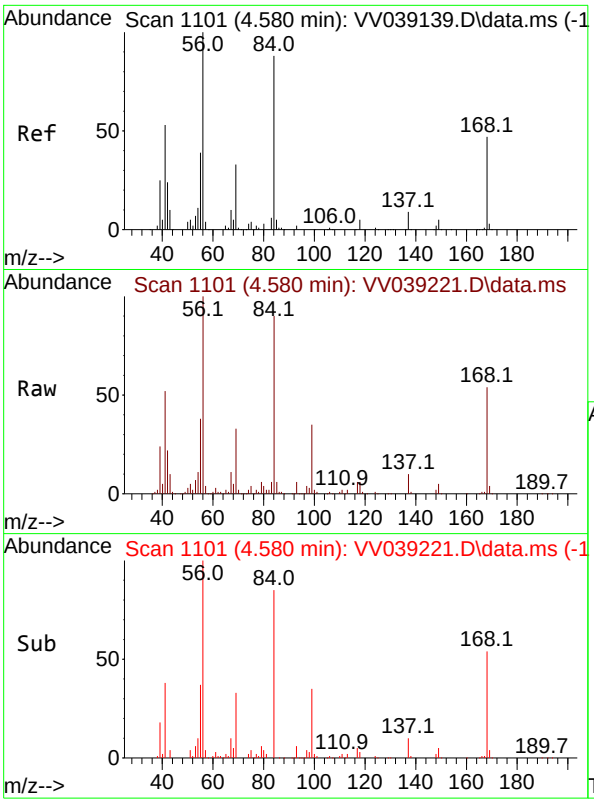




#30
Chloroform
Concen: 42.297 ug/l
RT: 4.275 min Scan# 1006
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 83 Resp: 785637

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.6 | 52.1 | 78.1 |



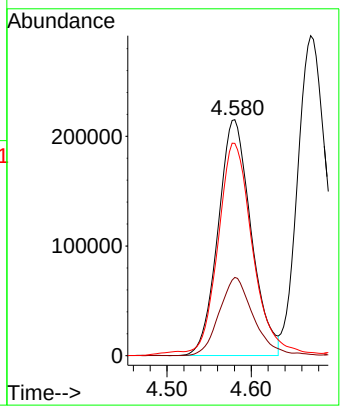


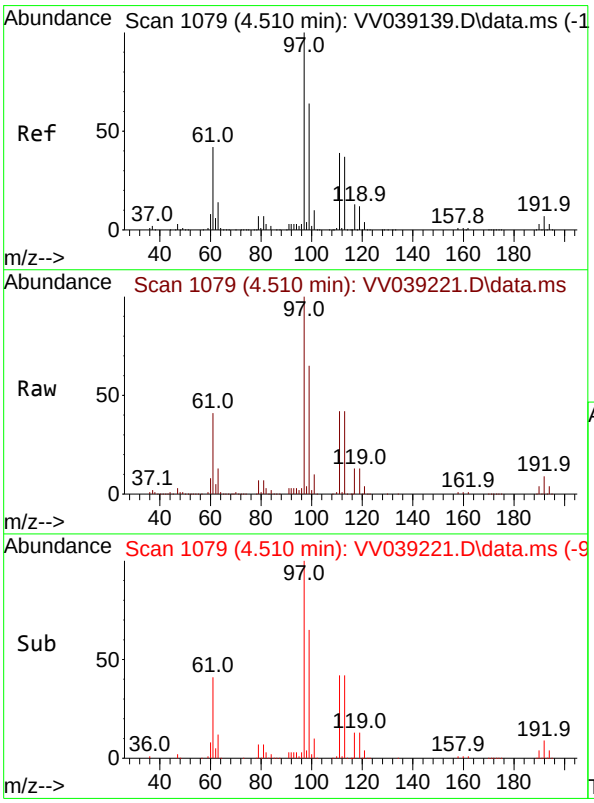

#31
Cyclohexane
Concen: 40.190 ug/l
RT: 4.580 min Scan# 11
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 56 Resp: 585623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 33.1 | 26.2 | 39.2 |
| 84 | 88.2 | 70.3 | 105.5 |

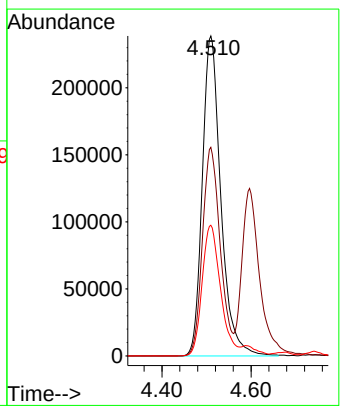


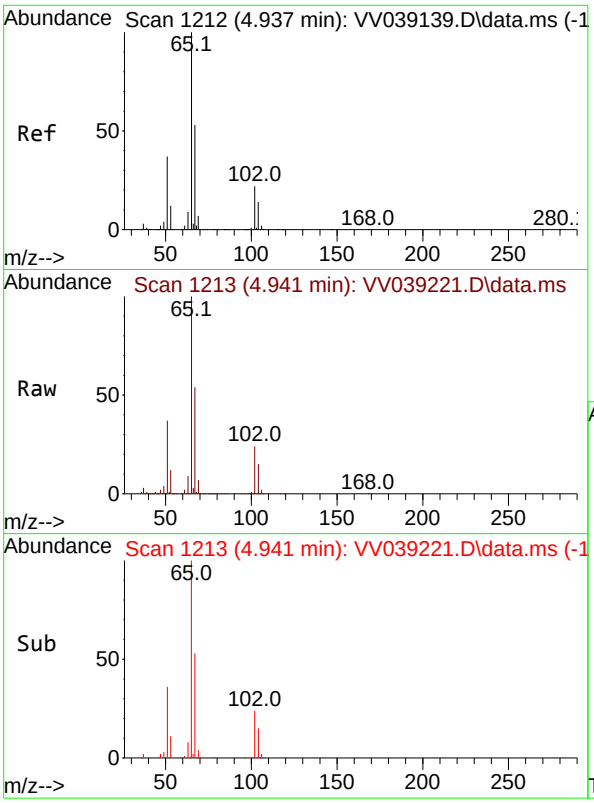




#32
1,1,1-Trichloroethane
Concen: 42.812 ug/l
RT: 4.510 min Scan# 1079
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 97 Resp: 688441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 62.4 | 49.6 | 74.4 |
| 61 | 40.9 | 34.5 | 51.7 |



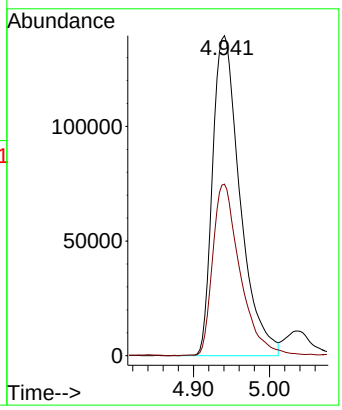


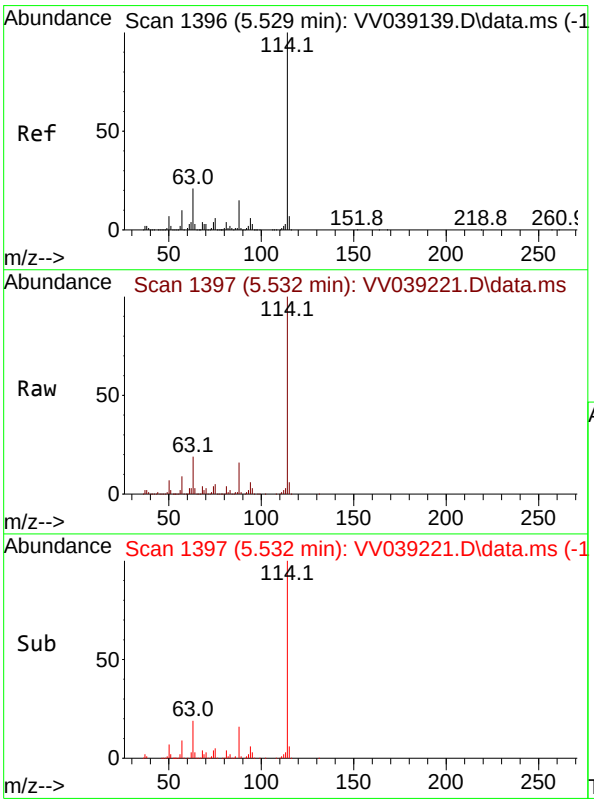

#33
1,2-Dichloroethane-d4
Concen: 42.808 ug/l
RT: 4.941 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 65 Resp: 349728

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.8 | 0.0 | 107.0 |

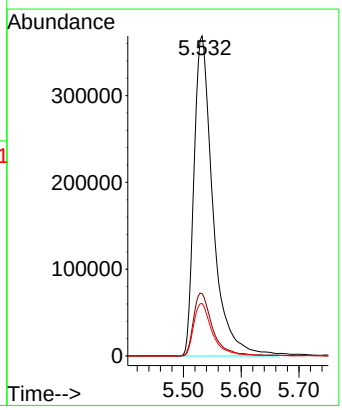


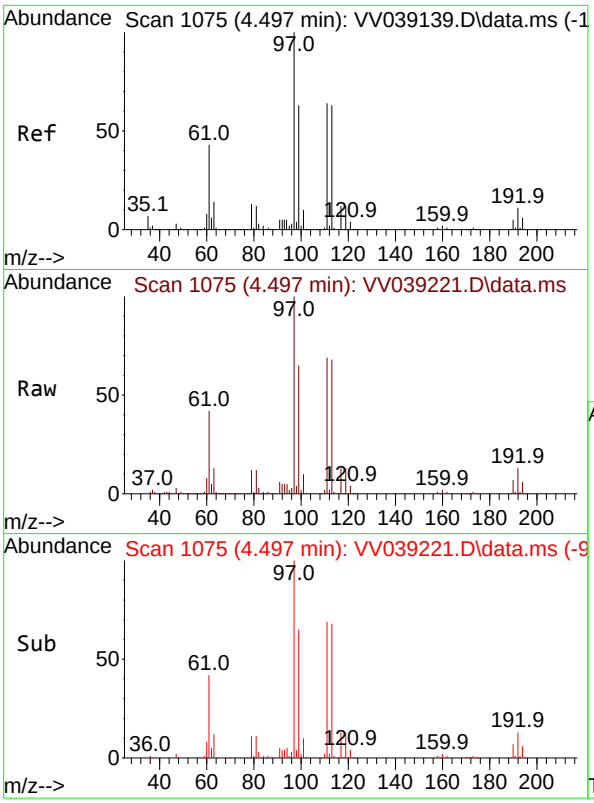




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 1397
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion:114 Resp: 842301

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.5 | 0.0 | 42.6 |
| 88 | 16.4 | 0.0 | 30.8 |



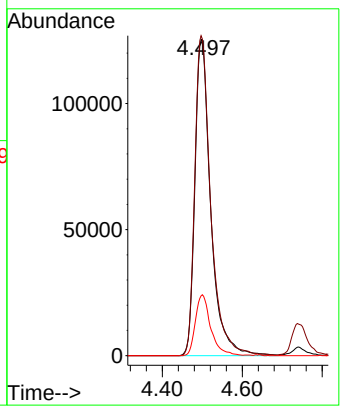


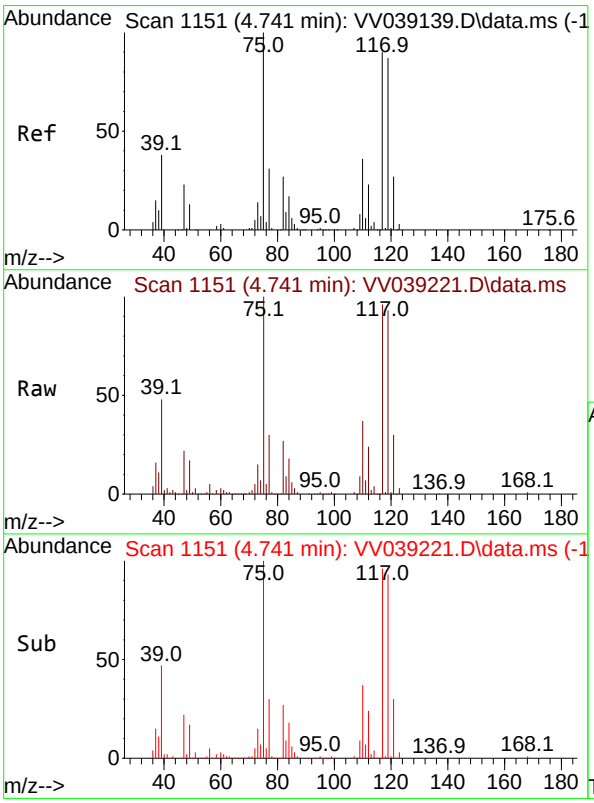

#35
Dibromofluoromethane
Concen: 51.100 ug/l
RT: 4.497 min Scan# 1
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:113 Resp: 346022

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.1 | 82.4 | 123.6 |
| 192 | 18.7 | 13.8 | 20.8 |

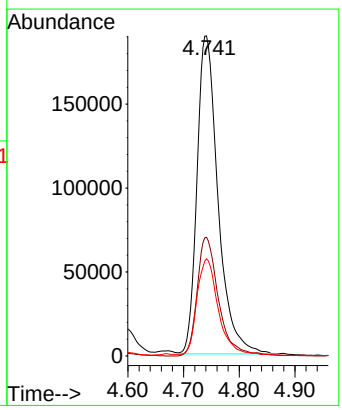


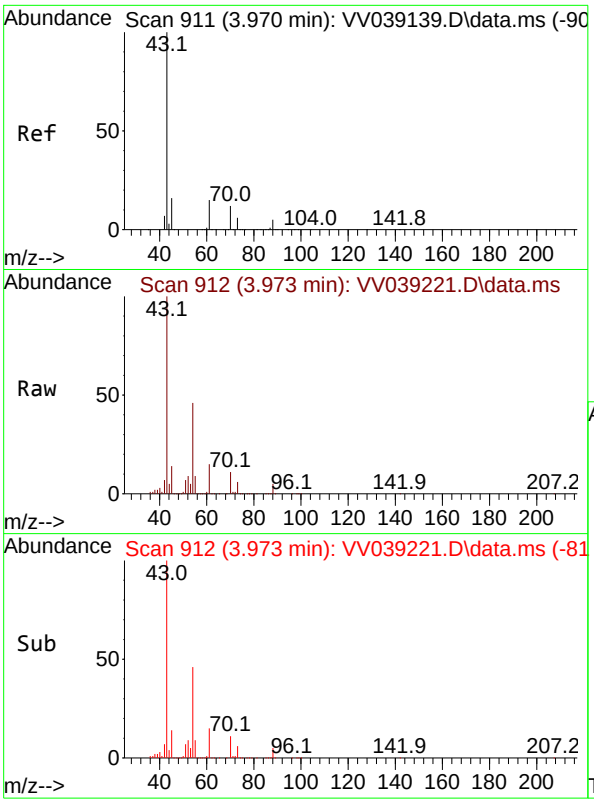




#36
1,1-Dichloropropene
Concen: 48.595 ug/l
RT: 4.741 min Scan# 1151
Delta R.T. 0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 75 Resp: 497503

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 37.5 | 18.1 | 54.1 |
| 77 | 29.9 | 24.8 | 37.2 |



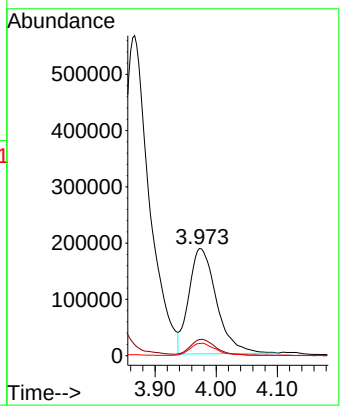


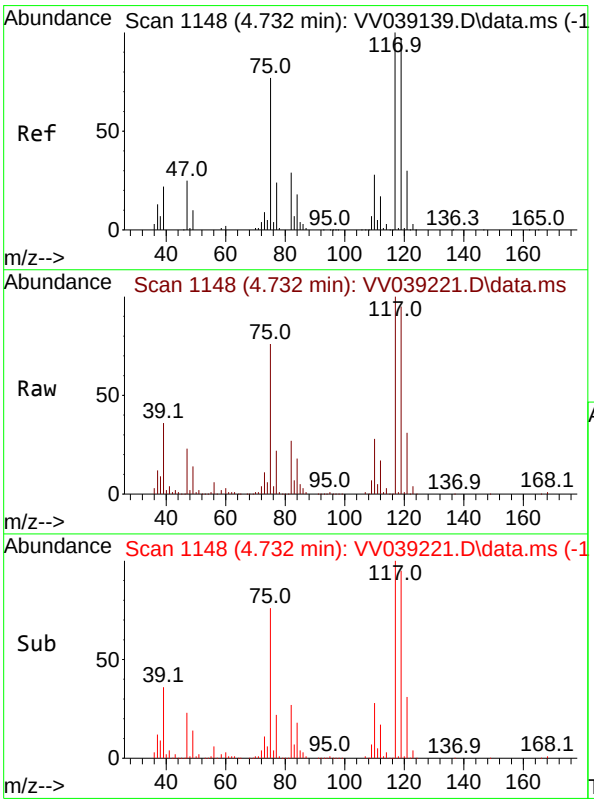

#37
Ethyl Acetate
Concen: 47.309 ug/l
RT: 3.973 min Scan# 91
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 587710

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.9 | 10.3 | 15.5 |
| 70 | 11.0 | 8.0 | 12.0 |

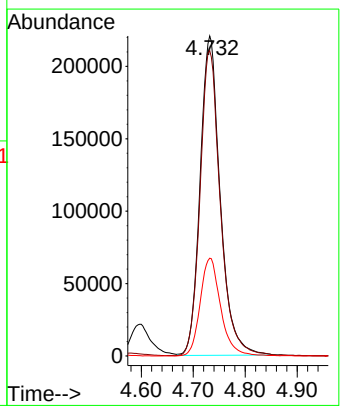


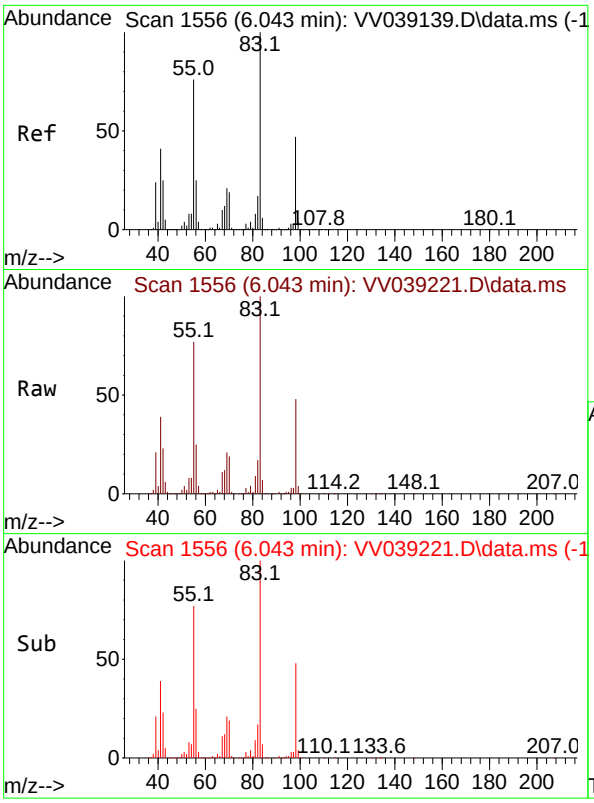




#38
Carbon Tetrachloride
Concen: 47.329 ug/l
RT: 4.732 min Scan# 1148
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion:117 Resp: 592185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.5 | 77.2 | 115.8 |
| 121 | 30.6 | 24.2 | 36.2 |



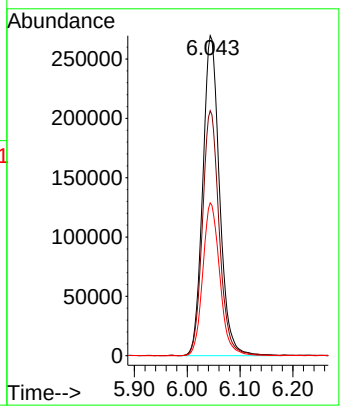


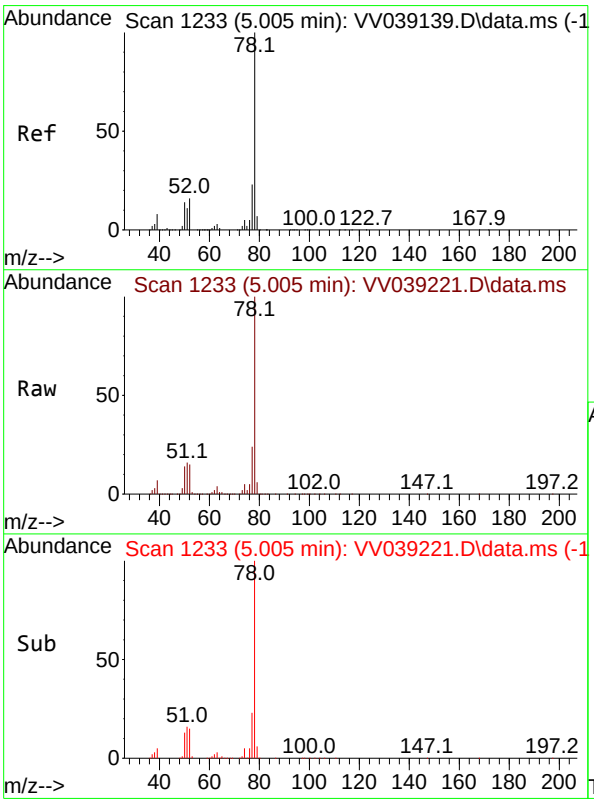

#39
Methylcyclohexane
Concen: 48.172 ug/l
RT: 6.043 min Scan# 1
Delta R.T. 0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 83 Resp: 595570

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 76.5 | 60.5 | 90.7 |
| 98 | 47.8 | 37.8 | 56.6 |

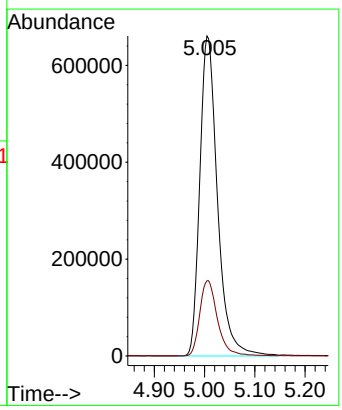


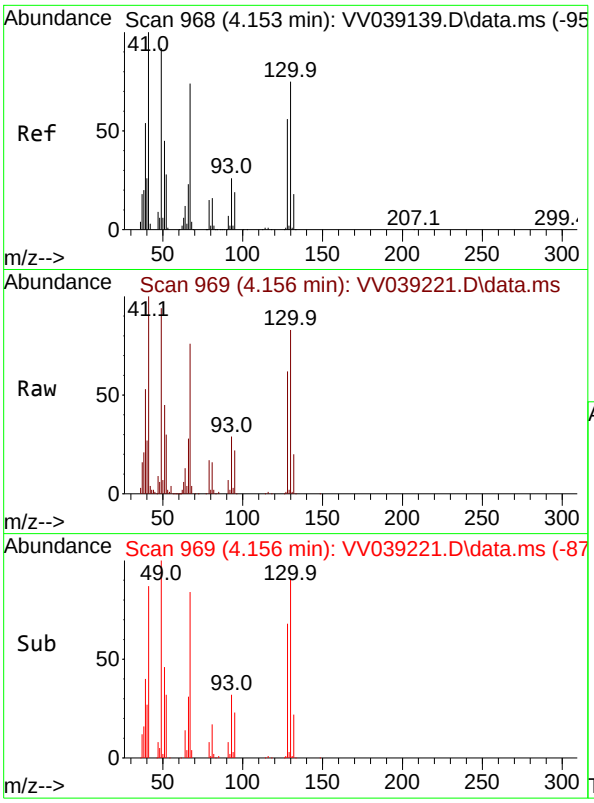




#40
Benzene
Concen: 48.334 ug/l
RT: 5.005 min Scan# 1233
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 78 Resp: 1611342

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.5 | 18.7 | 28.1 |



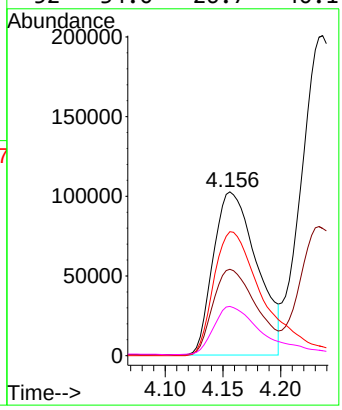


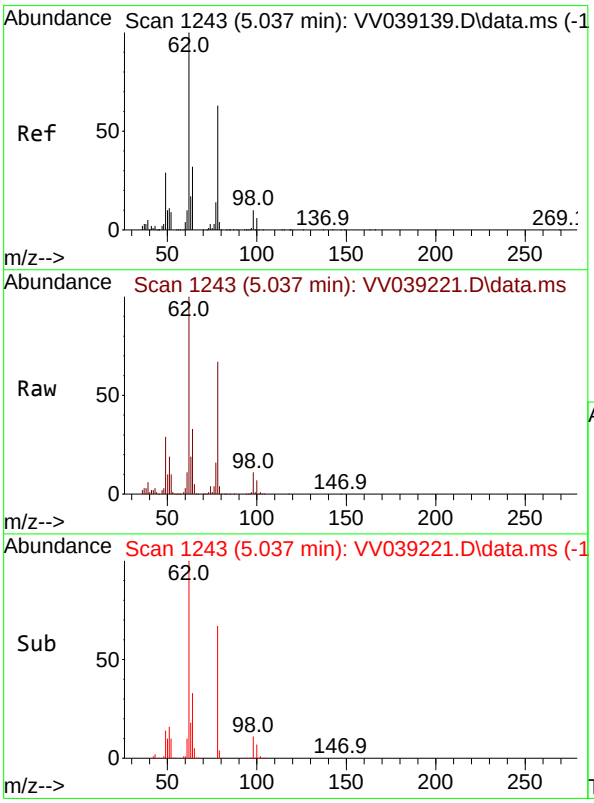

#41
Methacrylonitrile
Concen: 48.162 ug/l
RT: 4.156 min Scan# 9
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 41 Resp: 270101

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 52.4 | 42.2 | 63.2 |
| 67 | 87.5 | 67.9 | 101.9 |
| 52 | 34.0 | 26.7 | 40.1 |

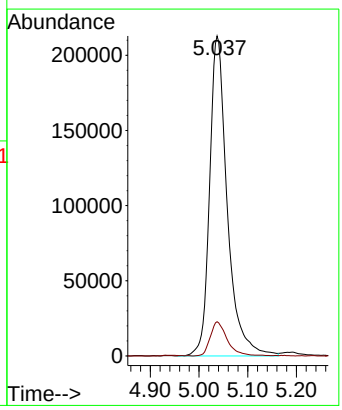


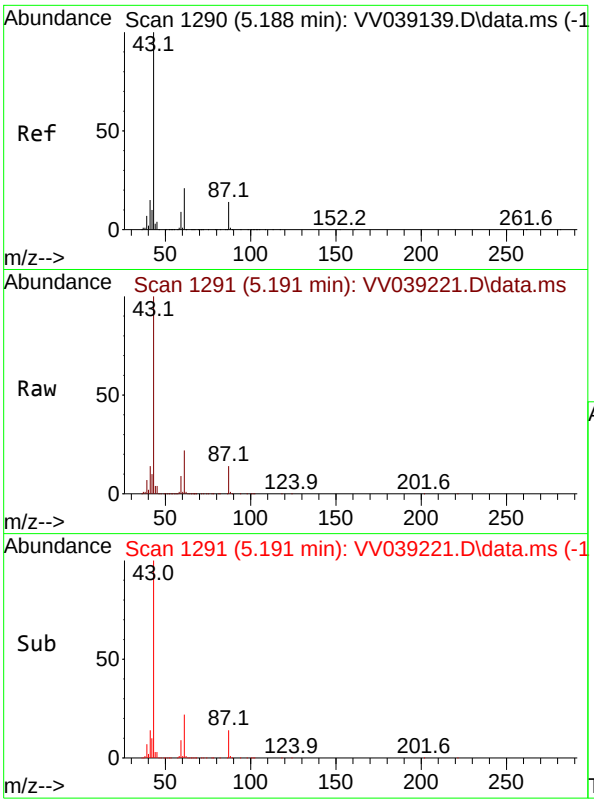




#42
1,2-Dichloroethane
Concen: 45.932 ug/l
RT: 5.037 min Scan# 1243
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 62 Resp: 536537

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.4 | 0.0 | 19.2 |



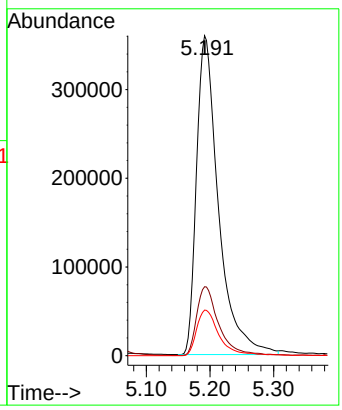


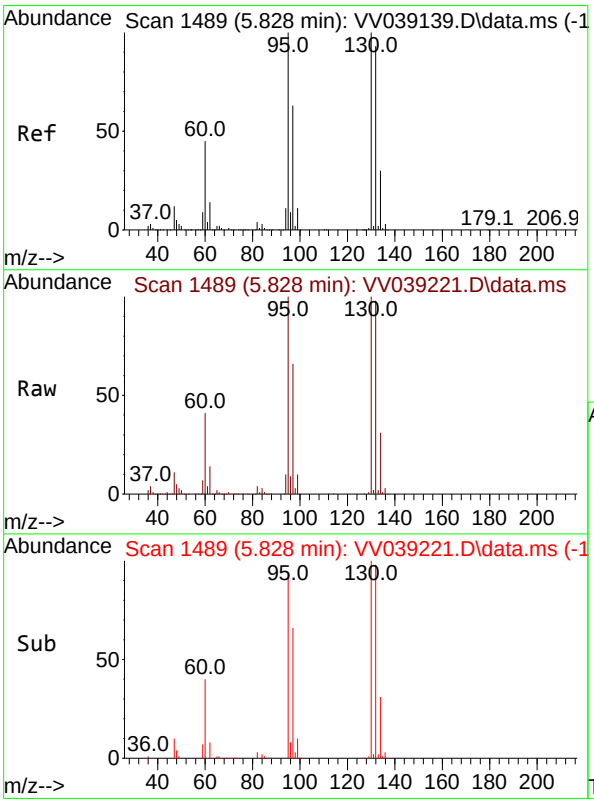

#43
Isopropyl Acetate
Concen: 50.981 ug/l
RT: 5.191 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 863524

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 21.5 | 15.9 | 23.9 |
| 87 | 14.8 | 11.0 | 16.6 |

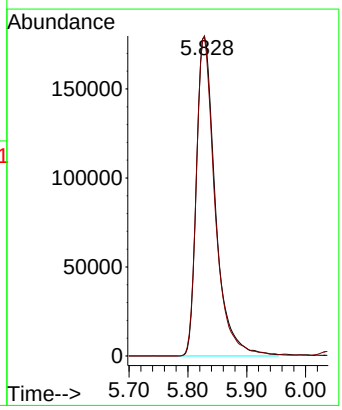


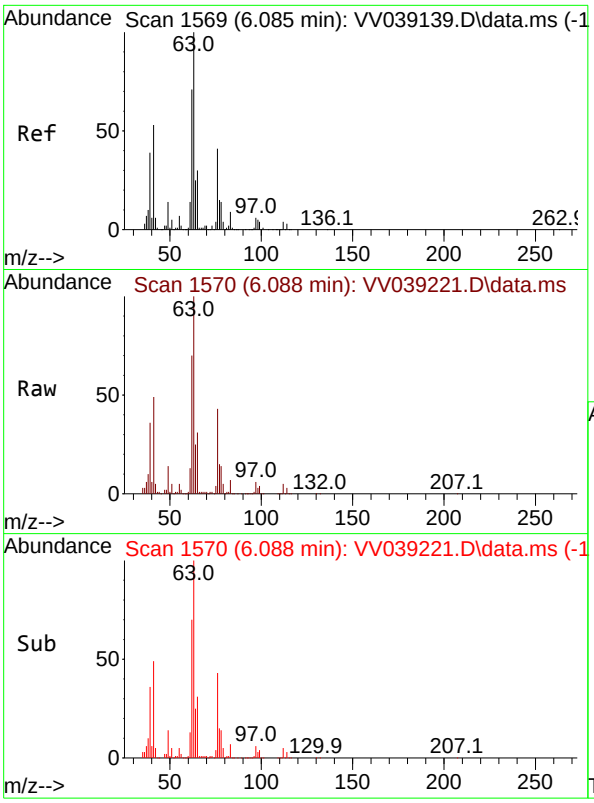




#44
Trichloroethene
Concen: 52.139 ug/l
RT: 5.828 min Scan# 1489
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion:130 Resp: 401095

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 99.7 | 0.0 | 199.2 |



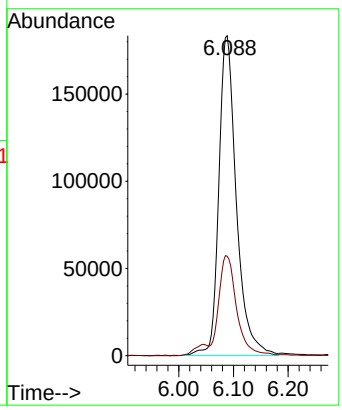


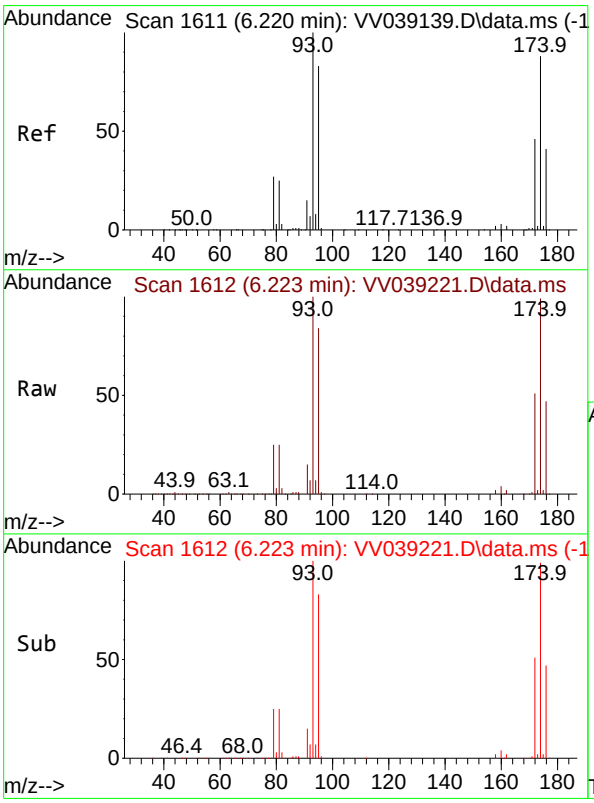

#45
1,2-Dichloropropane
Concen: 49.295 ug/l
RT: 6.088 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 63 Resp: 408473

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.1 | 23.7 | 35.5 |

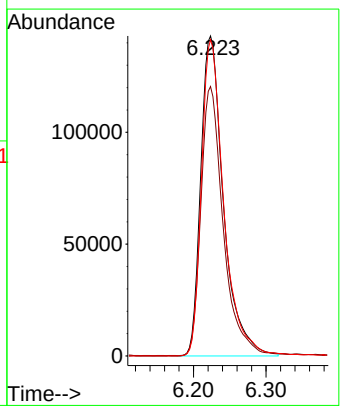


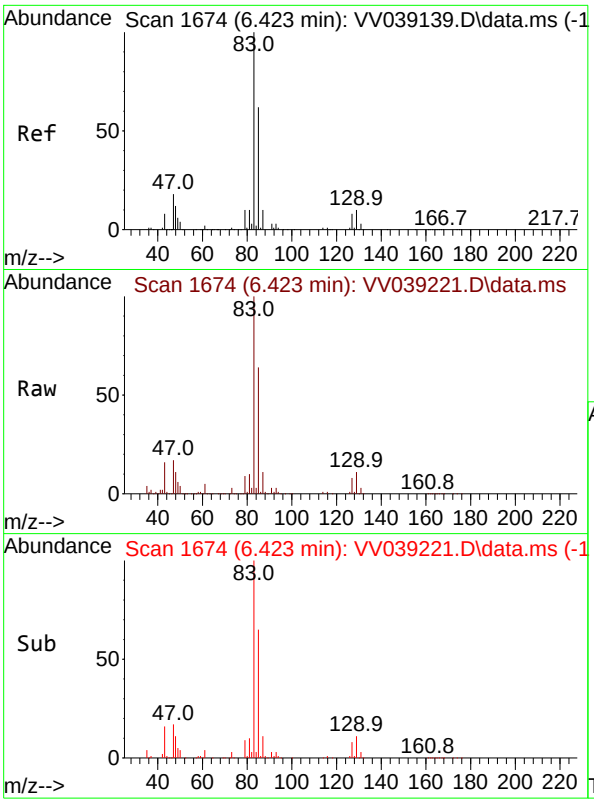




#46
Dibromomethane
Concen: 49.060 ug/l
RT: 6.223 min Scan# 1612
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 93 Resp: 311150

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.8 | 65.5 | 98.3 |
| 174 | 97.5 | 69.0 | 103.4 |



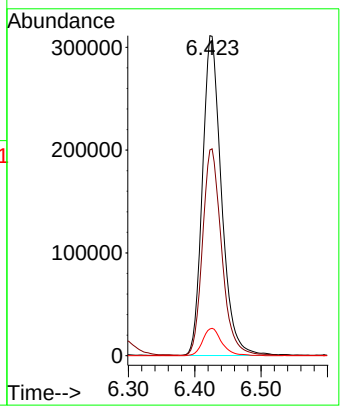


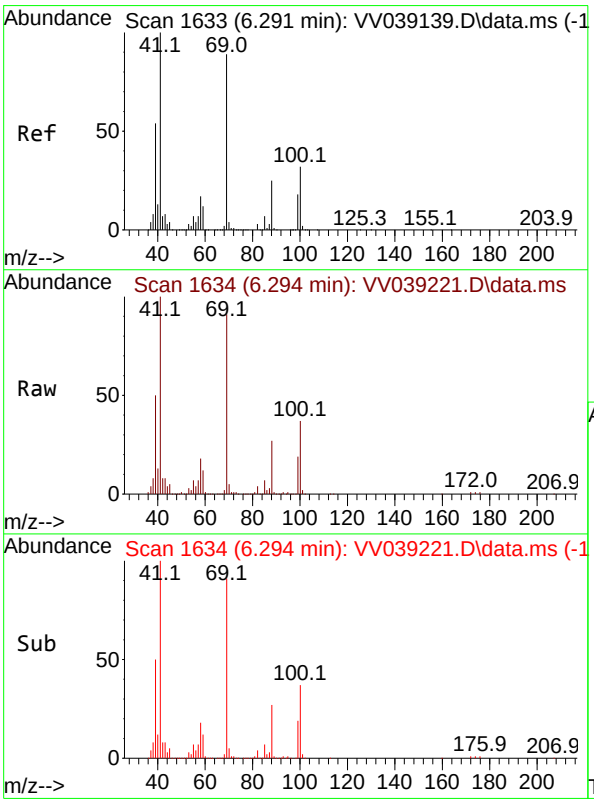

#47
Bromodichloromethane
Concen: 47.336 ug/l
RT: 6.423 min Scan# 1
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 83 Resp: 620639

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.2 | 49.7 | 74.5 |
| 127 | 8.4 | 6.6 | 9.8 |

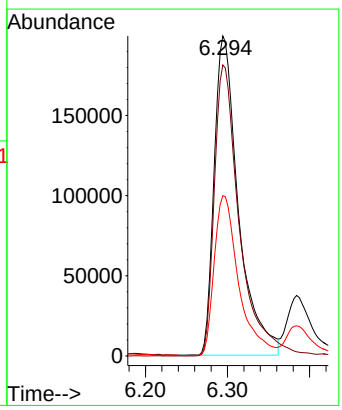


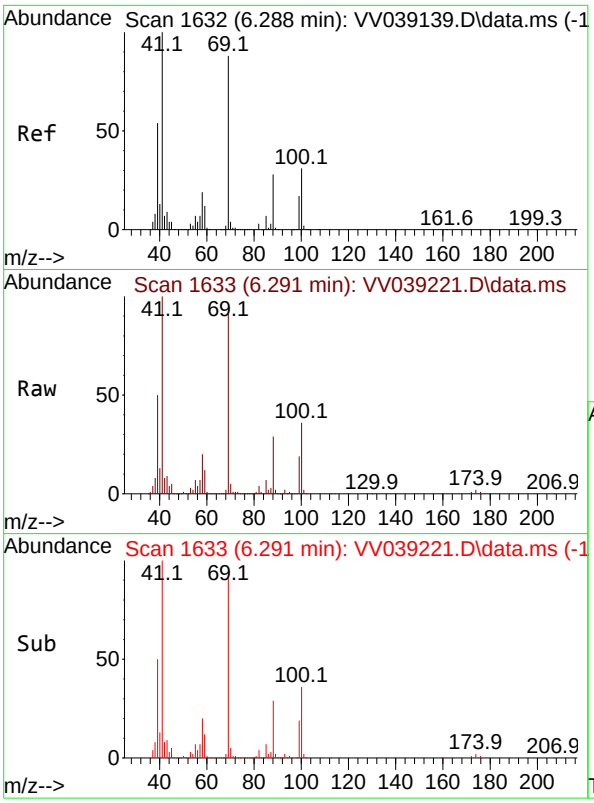




#48
Methyl methacrylate
Concen: 53.435 ug/l
RT: 6.294 min Scan# 1634
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 41 Resp: 410277

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 94.3 | 72.4 | 108.6 |
| 39 | 50.3 | 42.5 | 63.7 |



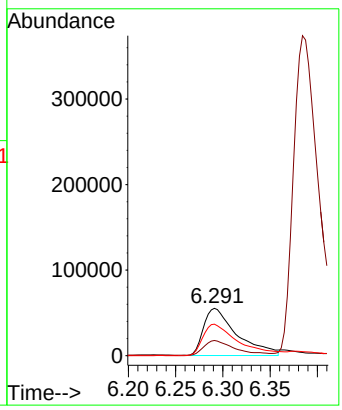


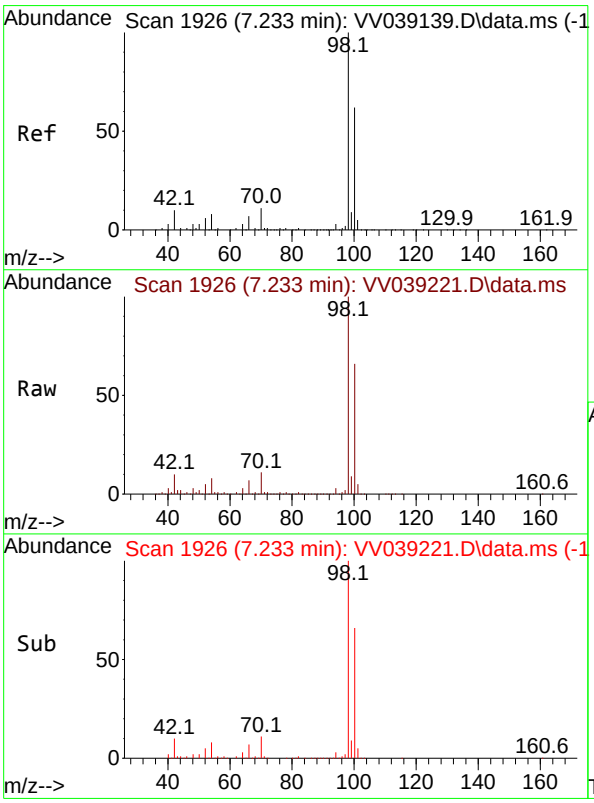

#49
1,4-Dioxane
Concen: 1093.922 ug/l
RT: 6.291 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 88 Resp: 135545

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 29.1 | 25.1 | 37.7 |
| 58 | 71.0 | 53.6 | 80.4 |

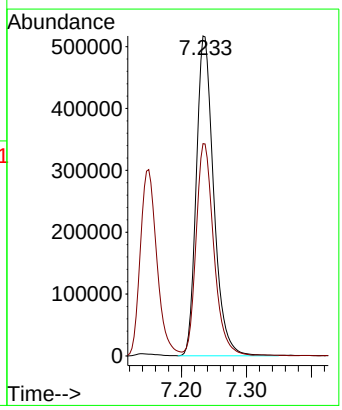


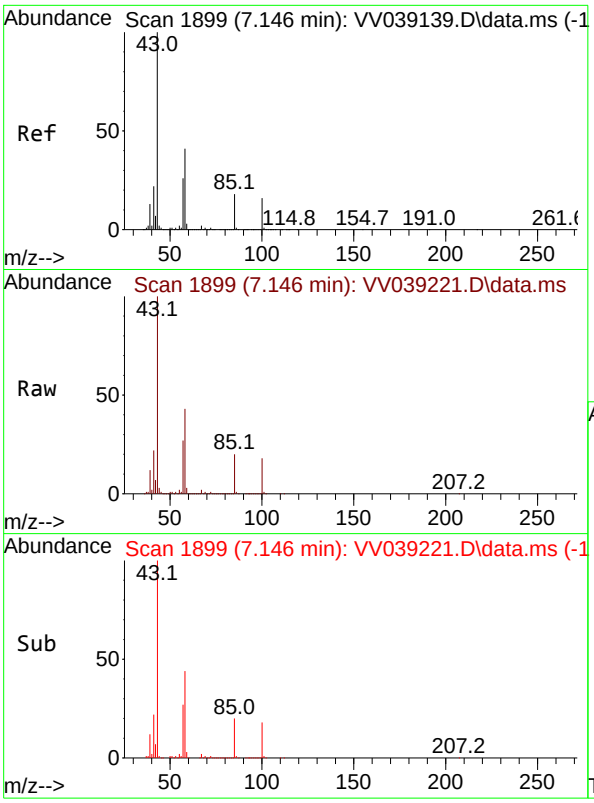




#50
Toluene-d8
Concen: 48.458 ug/l
RT: 7.233 min Scan# 1926
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 98 Resp: 963722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 67.0 | 52.2 | 78.2 |



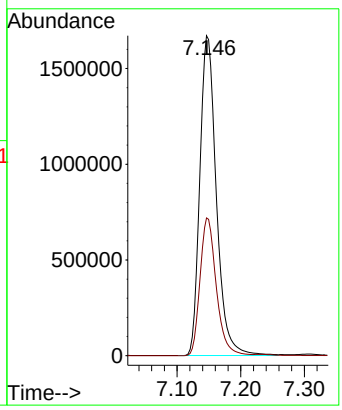


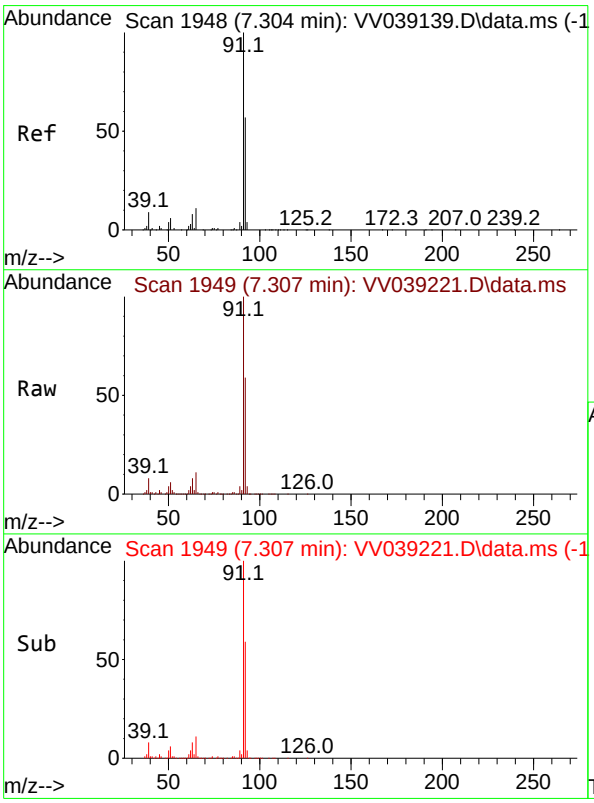

#51
4-Methyl-2-Pentanone
Concen: 271.028 ug/l
RT: 7.146 min Scan# 1
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 3020119

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 42.4 | 32.3 | 48.5 |

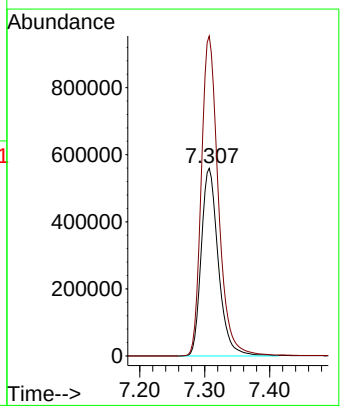


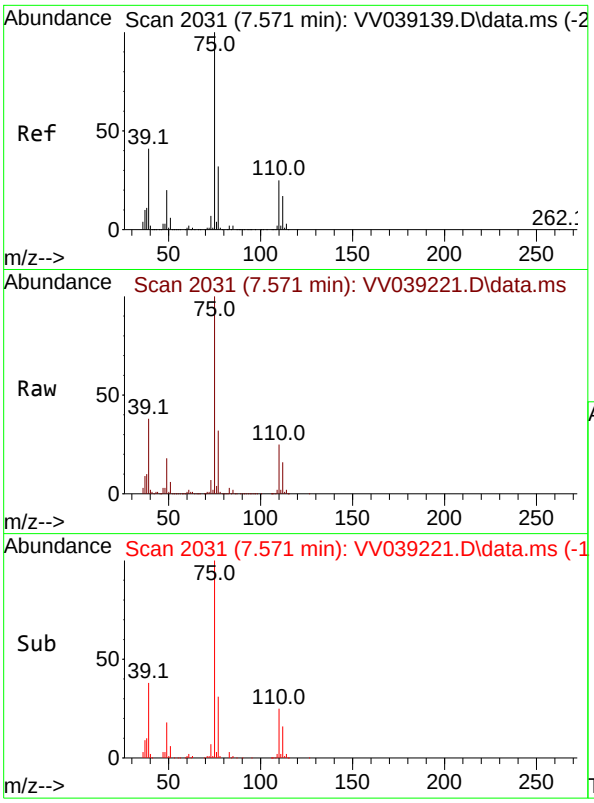




#52
Toluene
Concen: 53.051 ug/l
RT: 7.307 min Scan# 1949
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 92 Resp: 1025430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 170.5 | 139.2 | 208.8 |



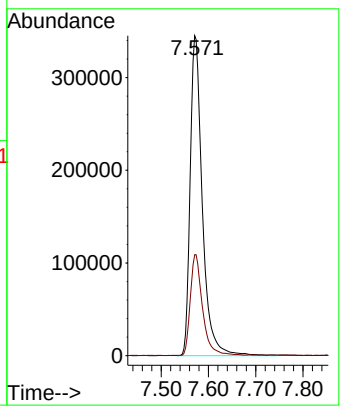


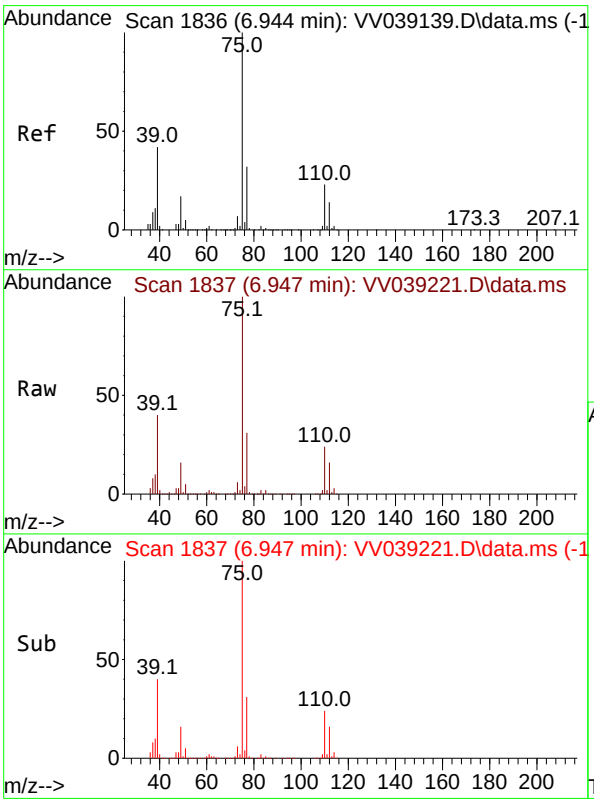

#53
t-1,3-Dichloropropene
Concen: 53.914 ug/l
RT: 7.571 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 75 Resp: 616048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.4 | 25.9 | 38.9 |

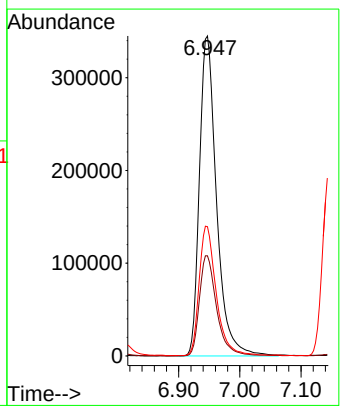


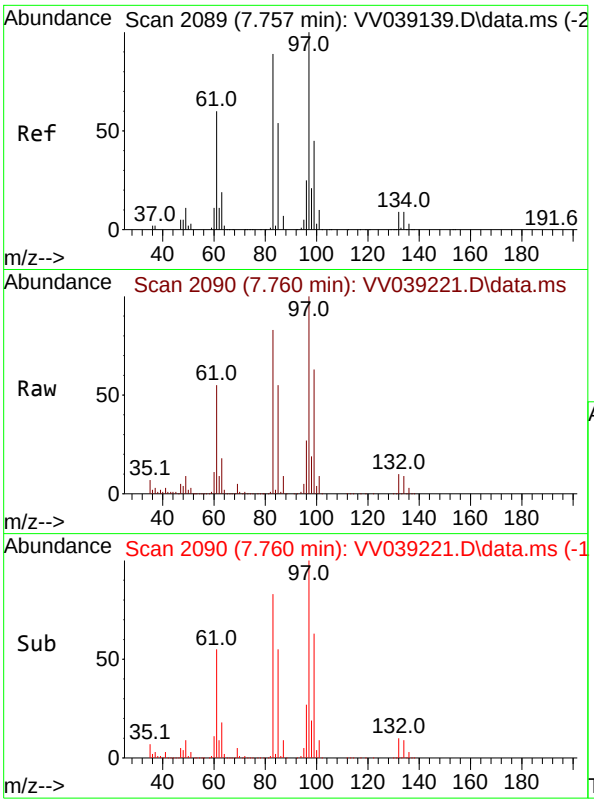




#54
cis-1,3-Dichloropropene
Concen: 53.126 ug/l
RT: 6.947 min Scan# 1837
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 75 Resp: 670138

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.2 | 25.5 | 38.3 |
| 39 | 40.3 | 33.8 | 50.6 |



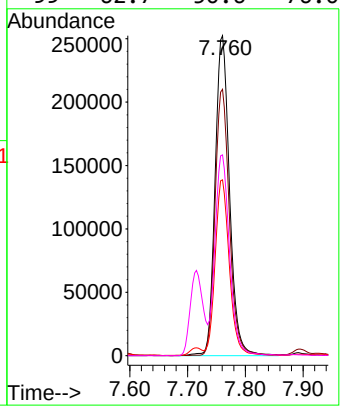


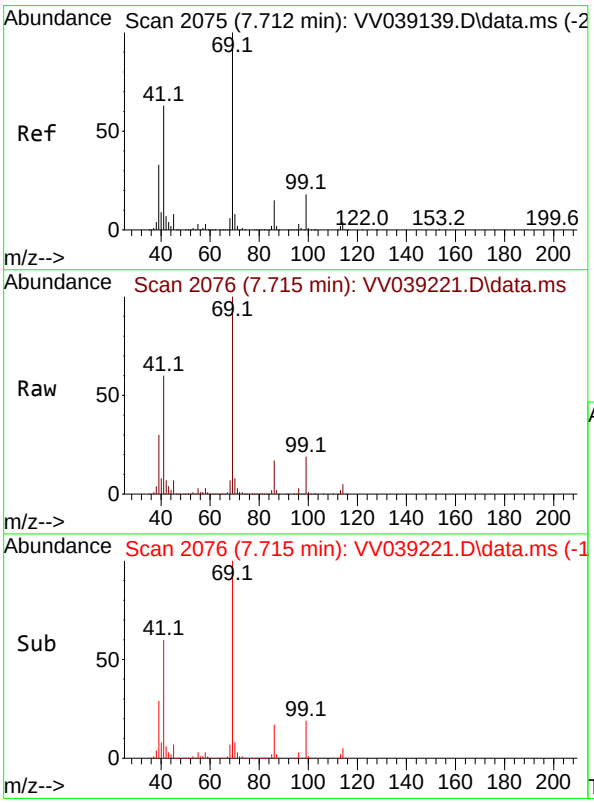

#55
1,1,2-Trichloroethane
Concen: 50.719 ug/l
RT: 7.760 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 97 Resp: 439583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 83.1 | 71.1 | 106.7 |
| 85 | 54.9 | 44.6 | 67.0 |
| 99 | 62.7 | 50.6 | 76.0 |

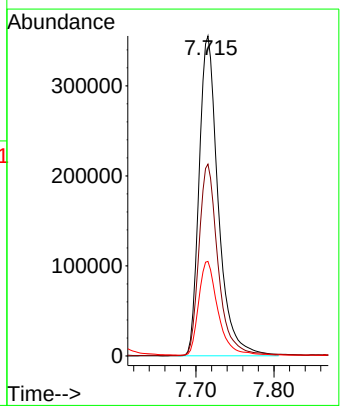


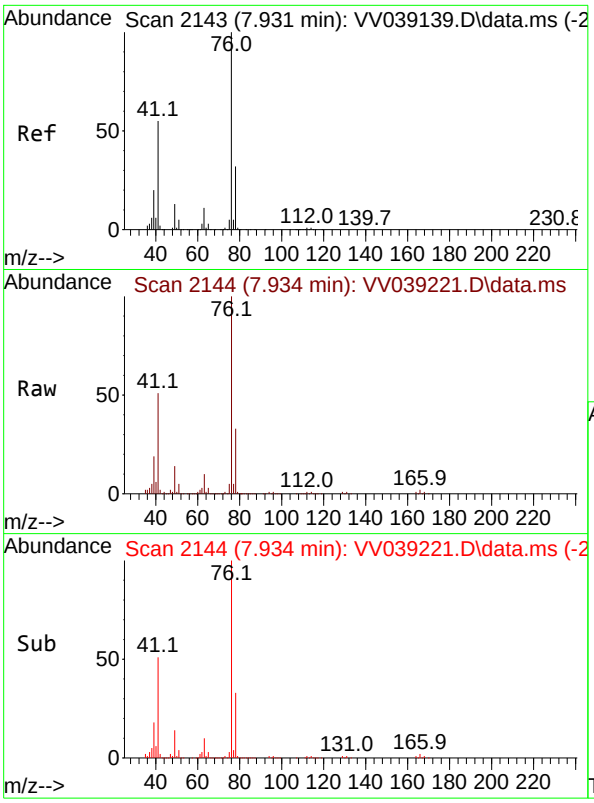




#56
Ethyl methacrylate
Concen: 58.788 ug/l
RT: 7.715 min Scan# 2076
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 69 Resp: 605076

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 60.1 | 50.7 | 76.1 |
| 39 | 29.8 | 26.0 | 39.0 |



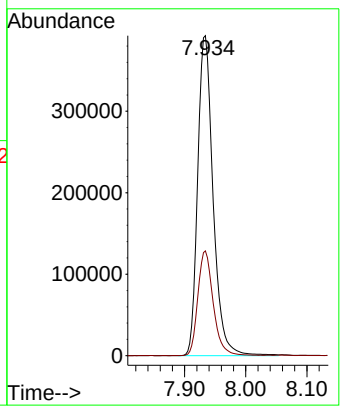


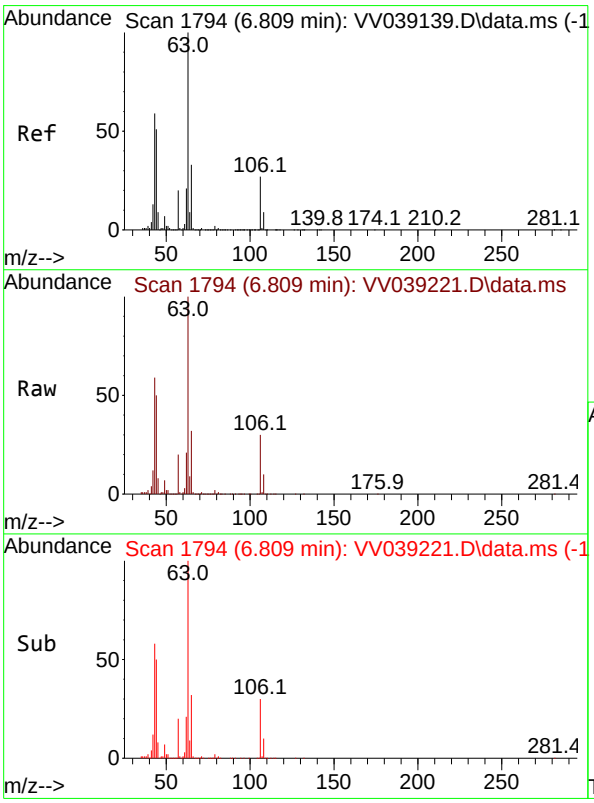

#57
1,3-Dichloropropane
Concen: 50.365 ug/l
RT: 7.934 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 76 Resp: 688890

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.6 | 26.1 | 39.1 |

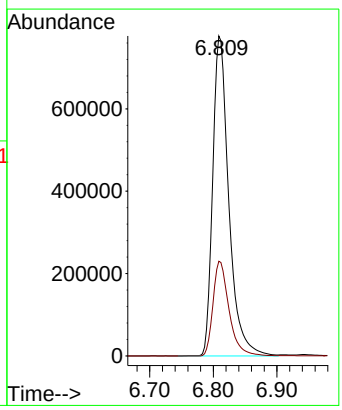


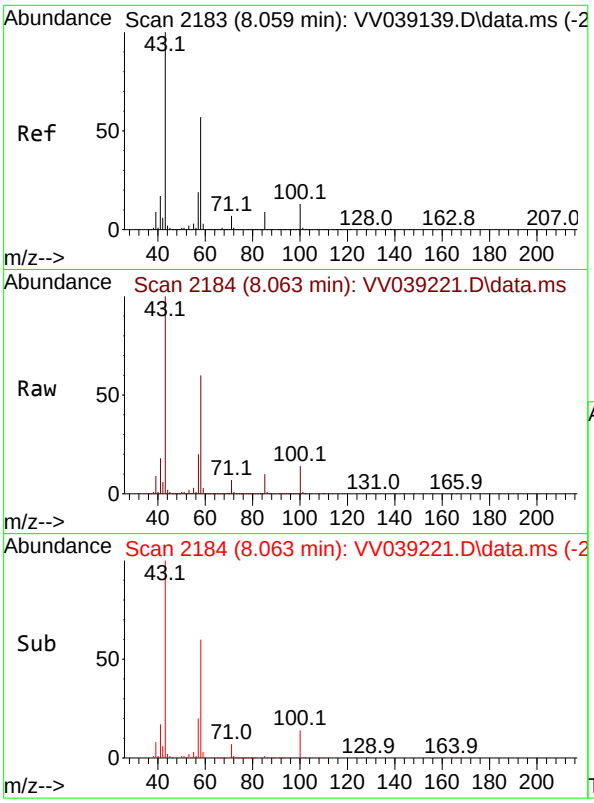




#58
2-Chloroethyl Vinyl ether
Concen: 235.318 ug/l
RT: 6.809 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 63 Resp: 1364182

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 29.5 | 22.1 | 33.1 |



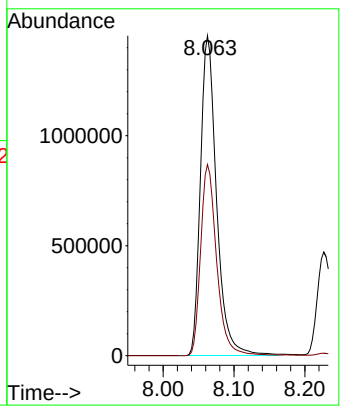


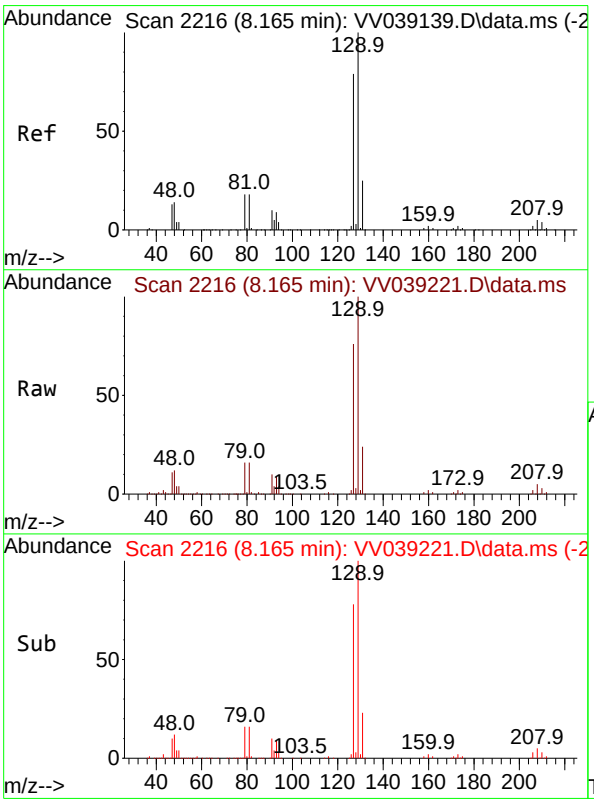

#59
2-Hexanone
Concen: 255.225 ug/l
RT: 8.063 min Scan# 21
Delta R.T. 0.004 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 2296121

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 59.6 | 28.3 | 85.0 |

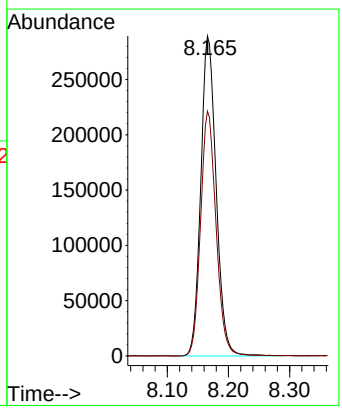


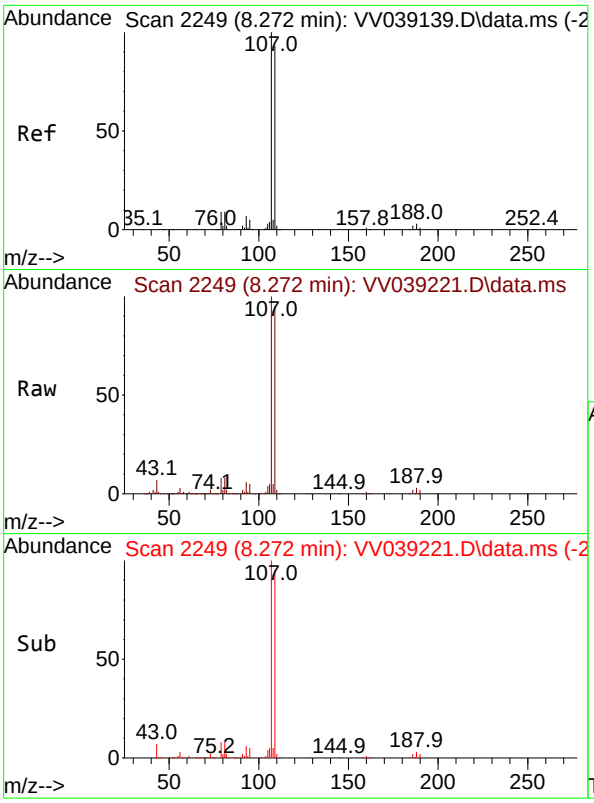




#60
Dibromochloromethane
Concen: 51.151 ug/l
RT: 8.165 min Scan# 2216
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion:129 Resp: 505143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 76.8 | 39.3 | 117.9 |



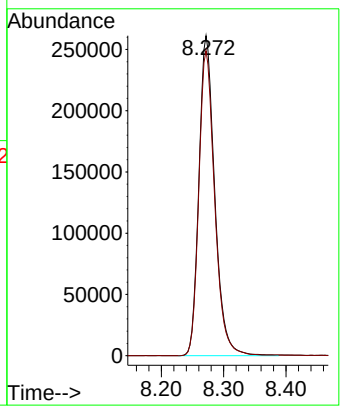


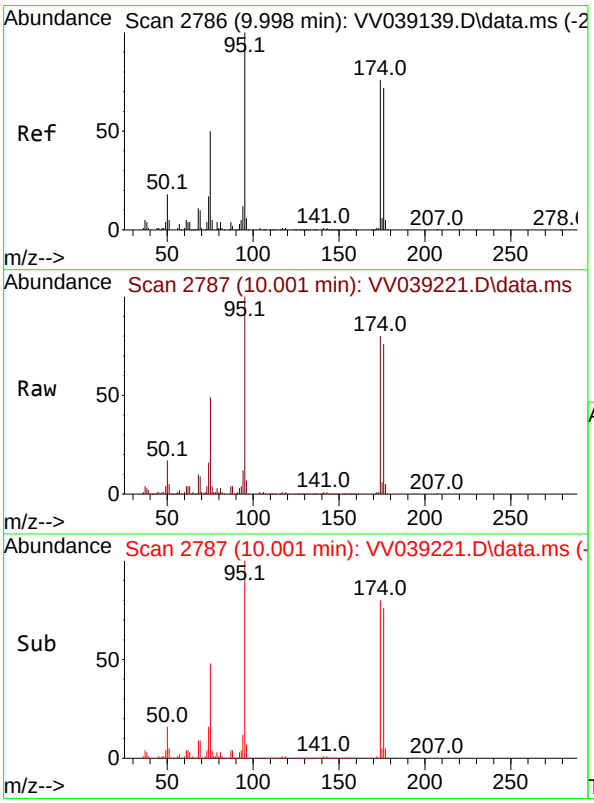

#61
1,2-Dibromoethane
Concen: 52.094 ug/l
RT: 8.272 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:107 Resp: 461742

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 95.1 | 74.6 | 112.0 |

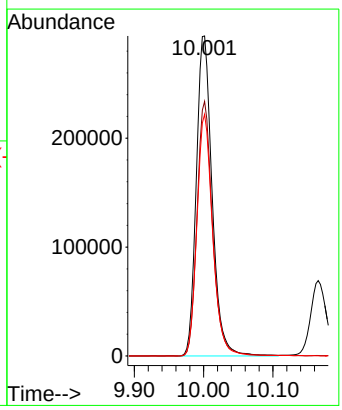


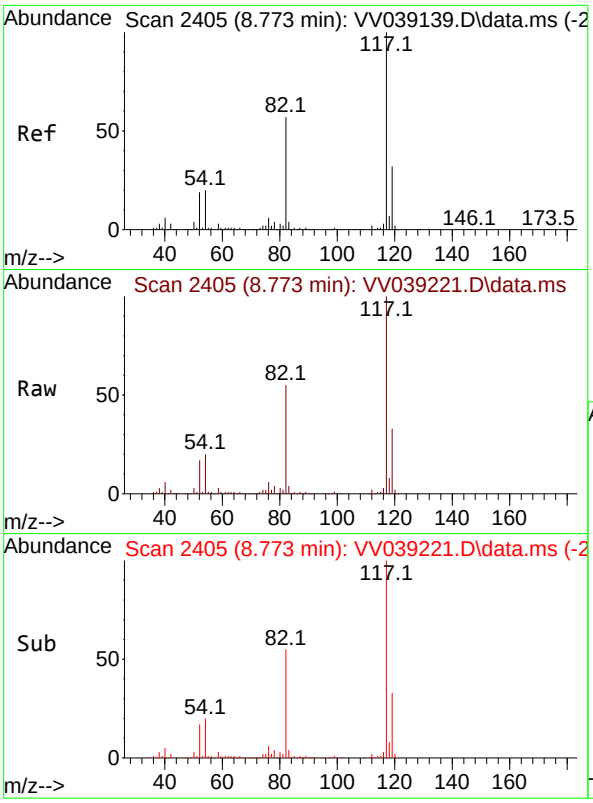




#62
4-Bromofluorobenzene
Concen: 57.013 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 95 Resp: 466775

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 78.2 | 0.0 | 150.4 |
| 176 | 75.0 | 0.0 | 144.2 |



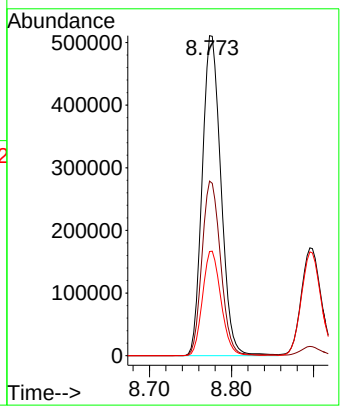


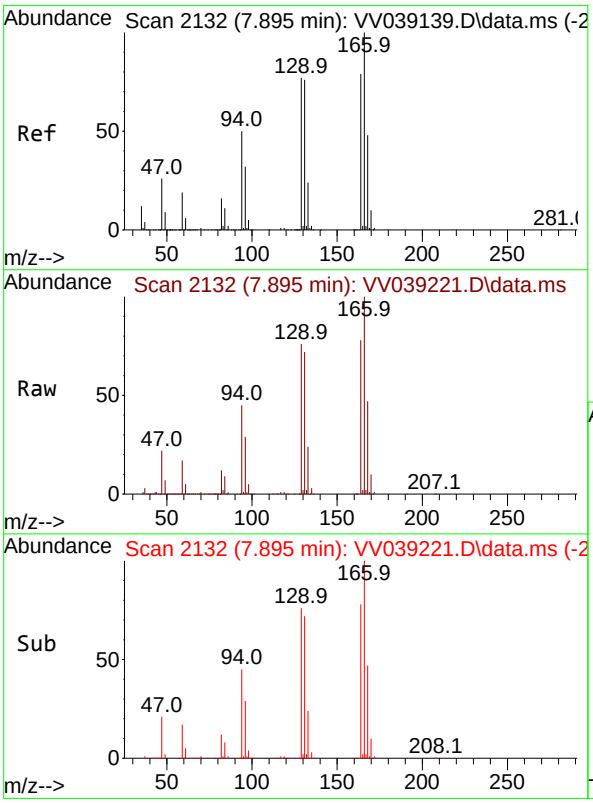

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.773 min Scan# 24
Delta R.T. 0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:117 Resp: 811375

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.5 | 45.4 | 68.2 |
| 119 | 32.5 | 25.6 | 38.4 |

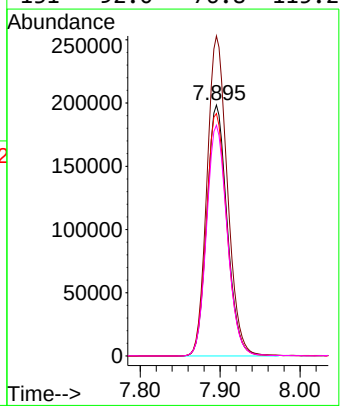


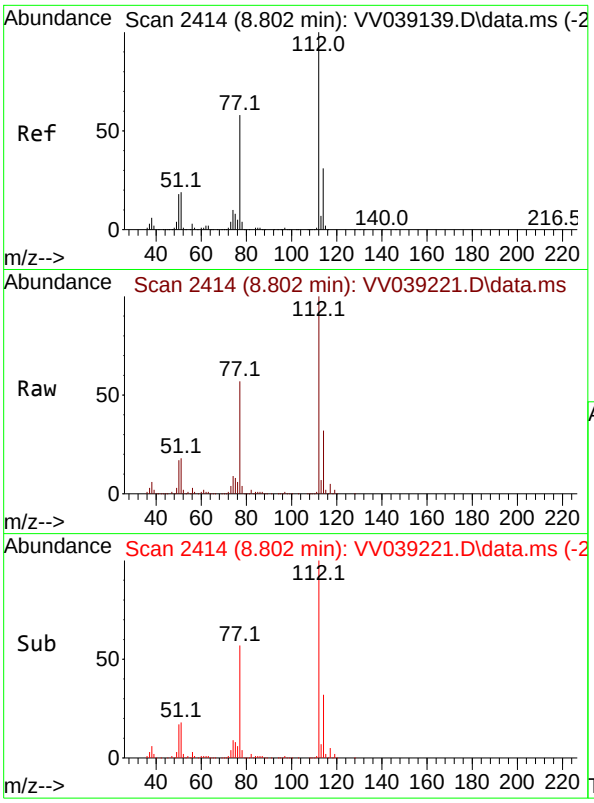




#64
Tetrachloroethene
Concen: 51.636 ug/l
RT: 7.895 min Scan# 2132
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion:164 Resp: 350917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 127.5 | 101.6 | 152.4 |
| 129 | 96.6 | 78.5 | 117.7 |
| 131 | 92.0 | 76.8 | 115.2 |



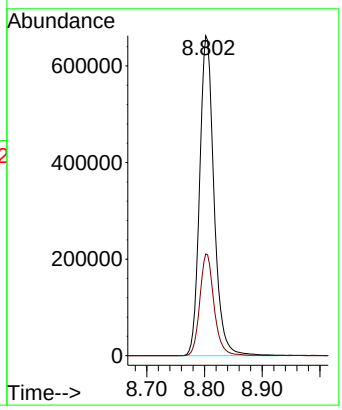


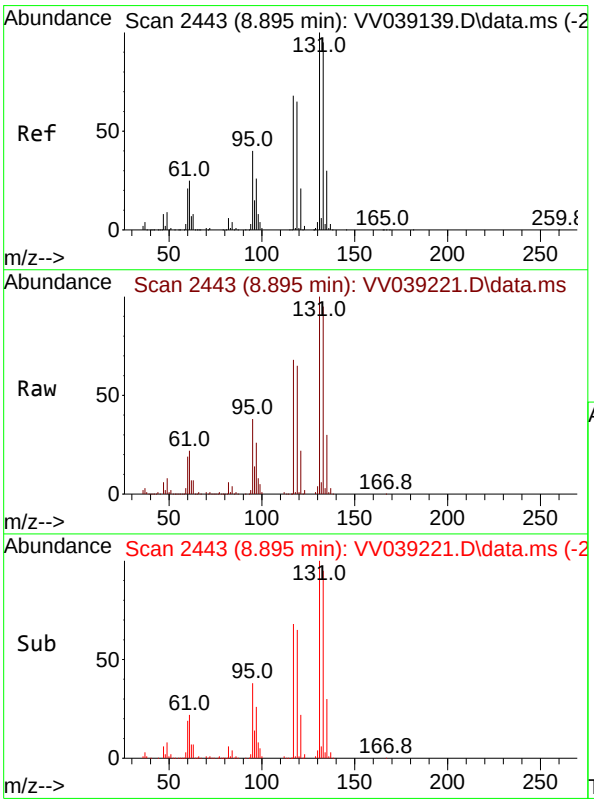

#65
Chlorobenzene
Concen: 50.604 ug/l
RT: 8.802 min Scan# 24
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:112 Resp: 1143668

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.8 | 24.6 | 37.0 |

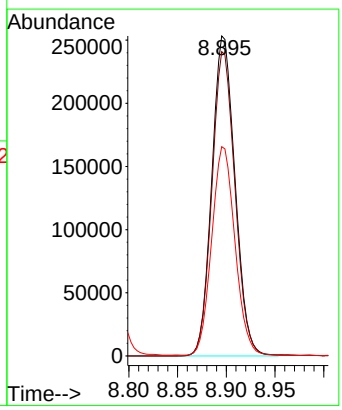


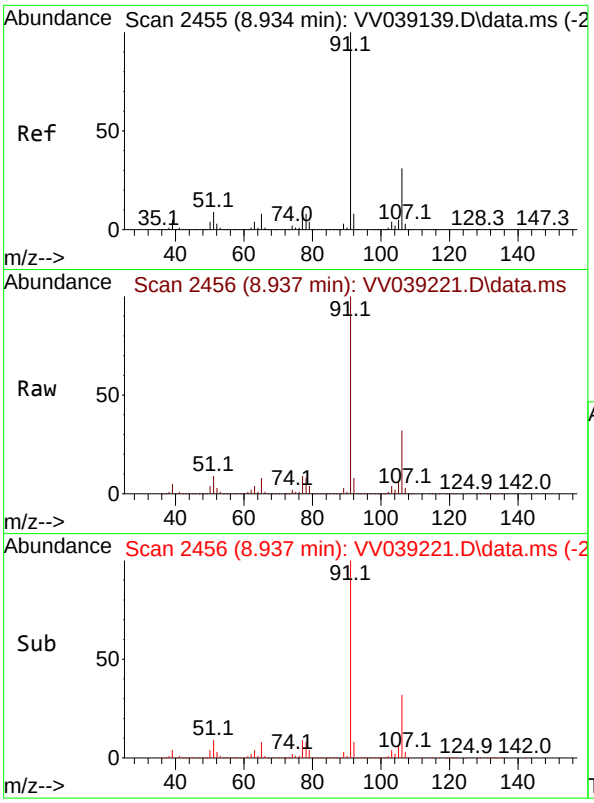




#66
1,1,1,2-Tetrachloroethane
Concen: 51.392 ug/l
RT: 8.895 min Scan# 2443
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion:131 Resp: 419675

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.9 | 47.3 | 141.8 |
| 119 | 65.6 | 33.3 | 99.8 |



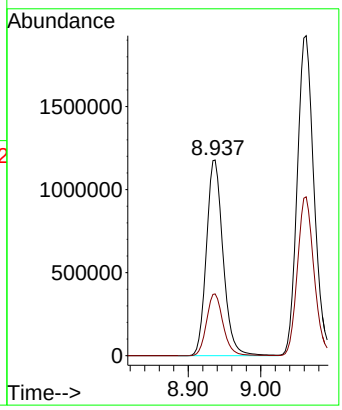


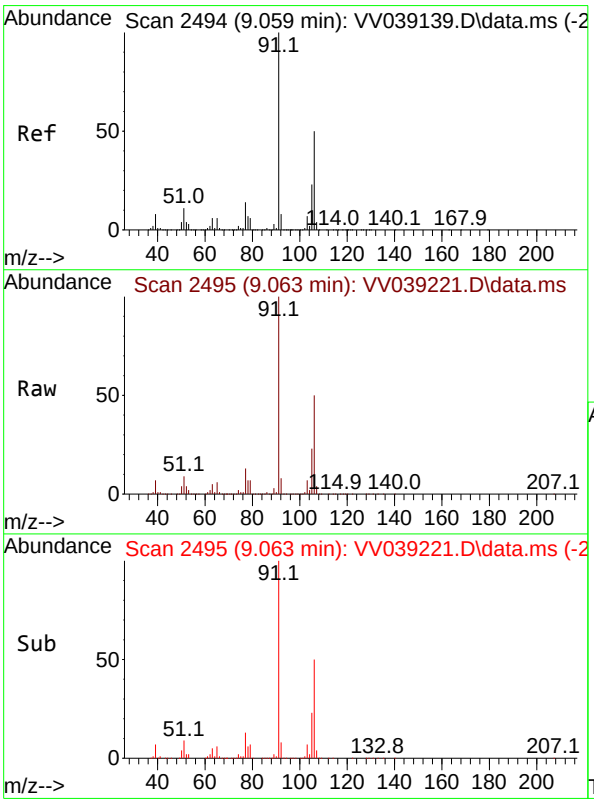

#67
Ethyl Benzene
Concen: 54.927 ug/l
RT: 8.937 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 91 Resp: 1879090

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.6 | 24.6 | 37.0 |

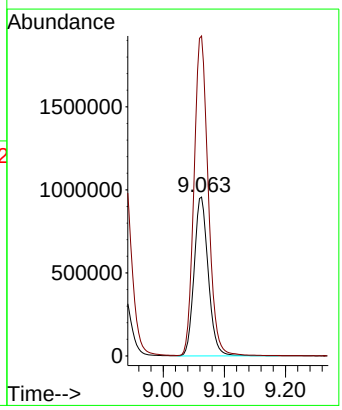


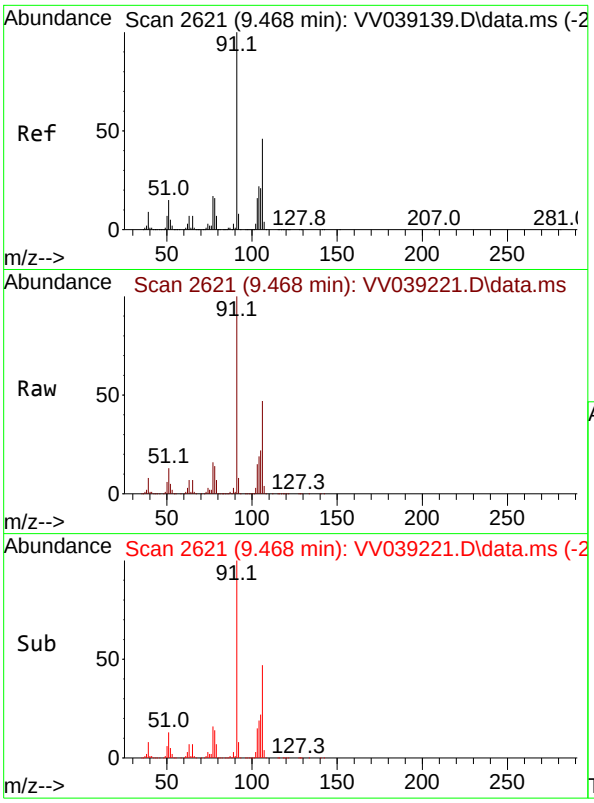




#68
m/p-Xylenes
Concen: 115.793 ug/l
RT: 9.063 min Scan# 2495
Delta R.T. 0.004 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion:106 Resp: 1528923

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 202.6 | 162.5 | 243.7 |



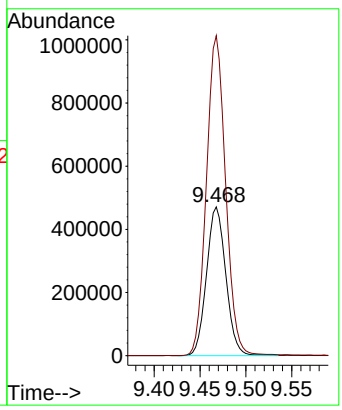


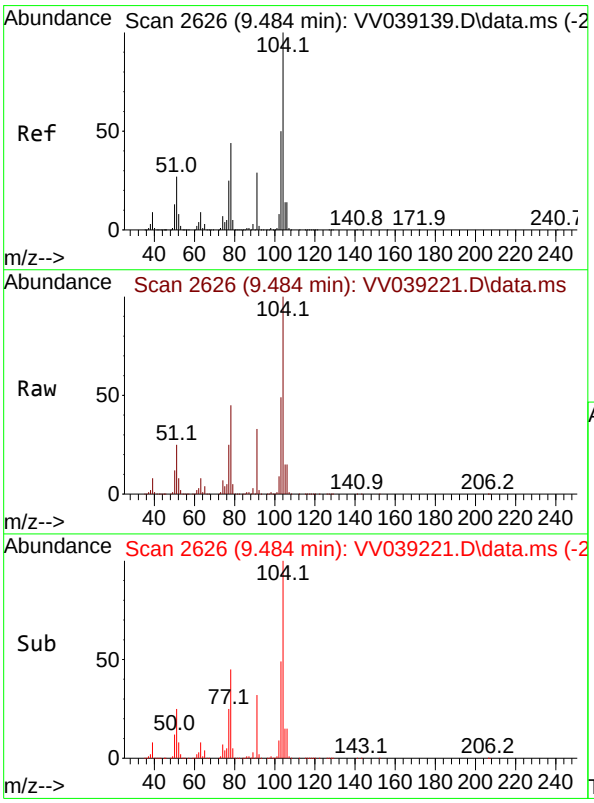

#69
o-Xylene
Concen: 59.062 ug/l
RT: 9.468 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:106 Resp: 690511

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 213.6 | 109.1 | 327.3 |

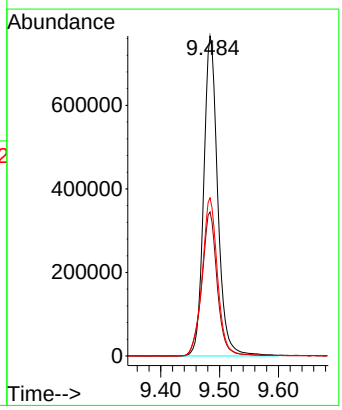


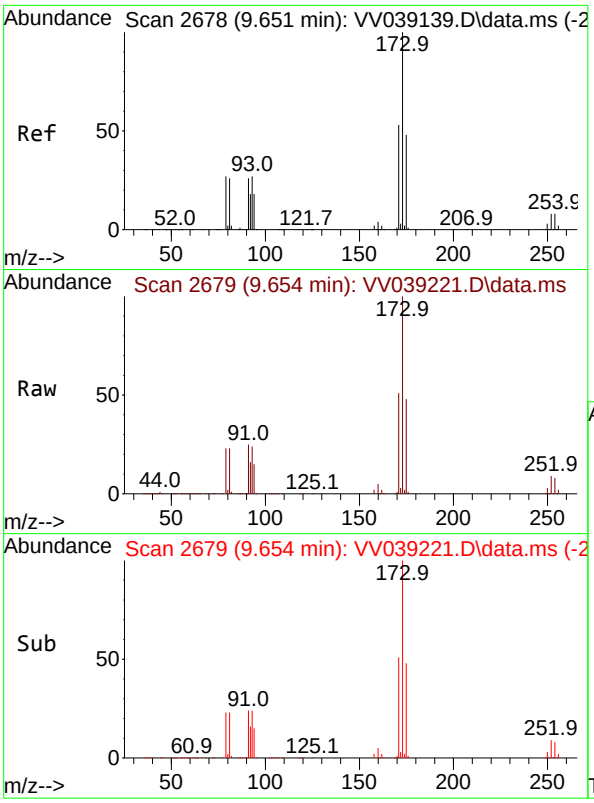




#70
Styrene
Concen: 51.432 ug/l
RT: 9.484 min Scan# 2626
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion:104 Resp: 1274646

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 49.1 | 39.8 | 59.6 |
| 103 | 54.0 | 43.4 | 65.2 |



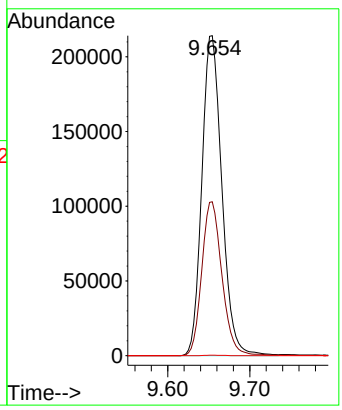


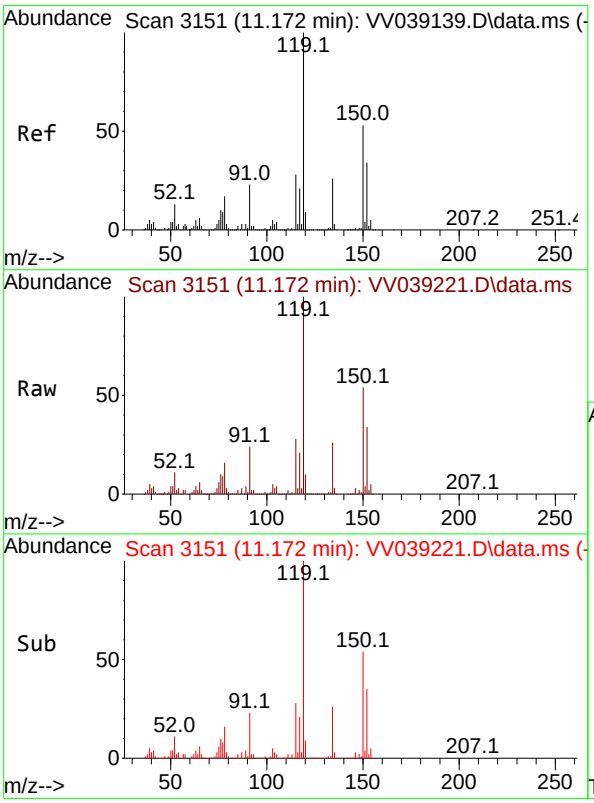

#71
Bromoform
Concen: 56.878 ug/l
RT: 9.654 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:173 Resp: 362804

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.5 | 23.9 | 71.7 |
| 254 | 0.1 | 0.1 | 0.1# |

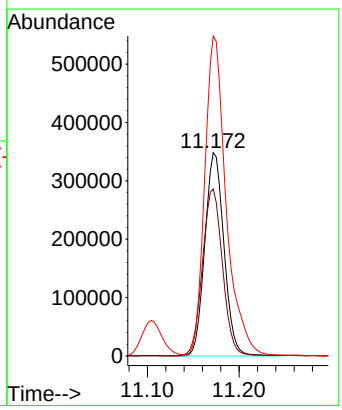


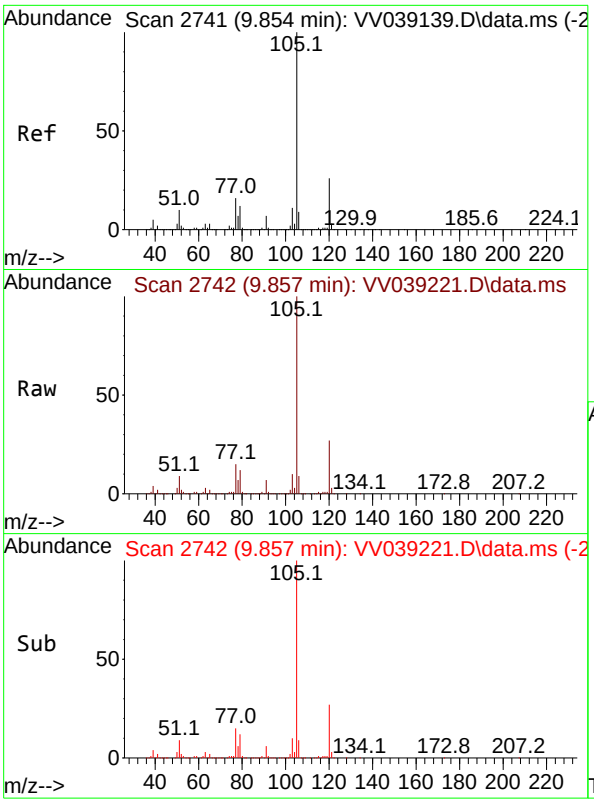




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion:152 Resp: 505725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 85.4 | 44.8 | 134.4 |
| 150 | 176.4 | 0.0 | 353.8 |



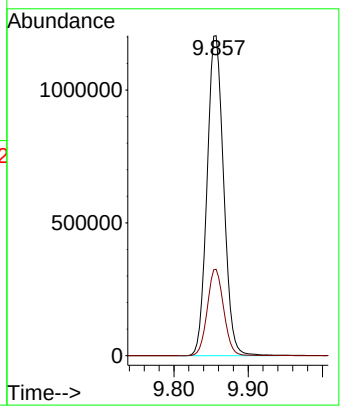


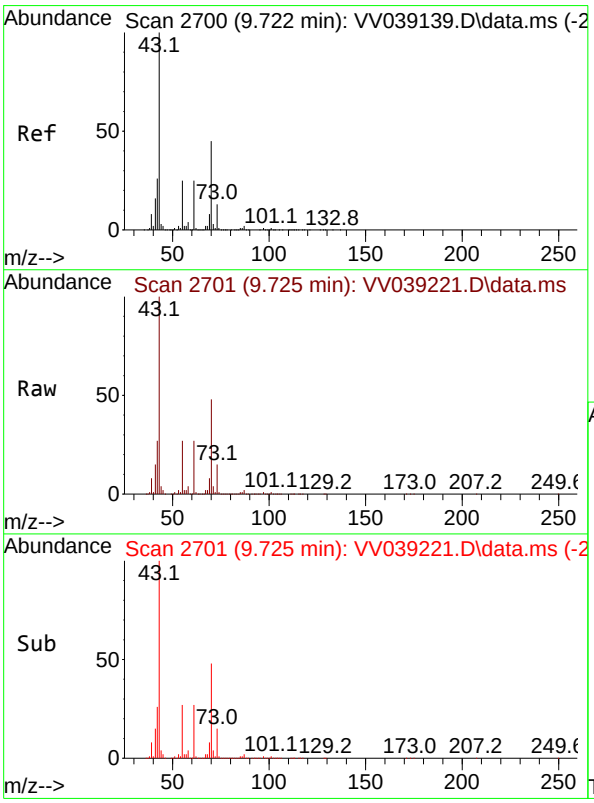

#73
Isopropylbenzene
Concen: 50.669 ug/l
RT: 9.857 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:105 Resp: 1858552

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.8 | 13.1 | 39.1 |

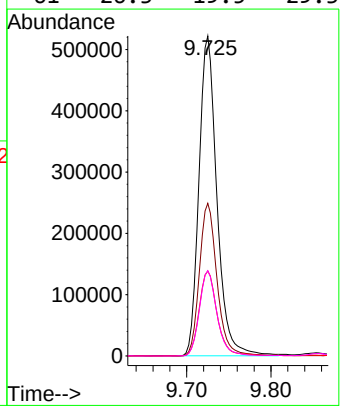


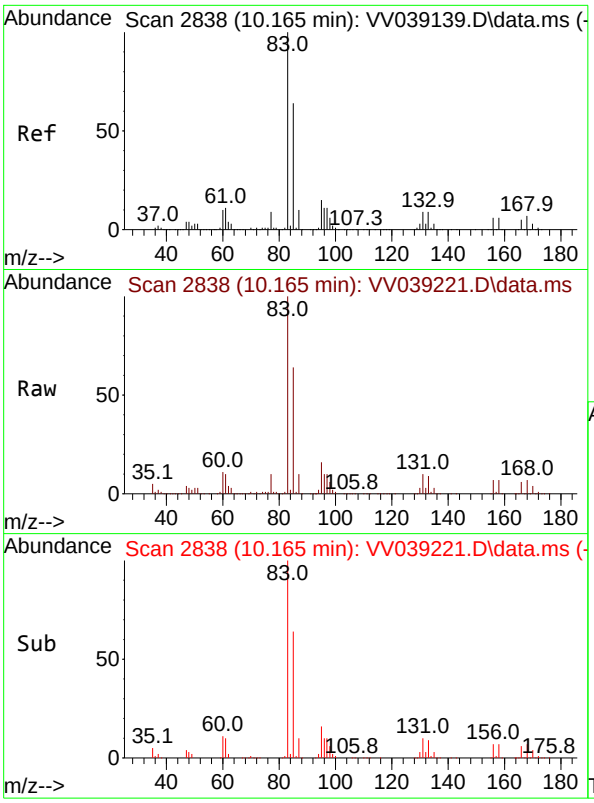




#74
N-amyl acetate
Concen: 52.920 ug/l
RT: 9.725 min Scan# 2701
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 43 Resp: 774283

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 47.2 | 35.4 | 53.0 |
| 55 | 26.5 | 20.6 | 30.8 |
| 61 | 26.3 | 19.5 | 29.3 |



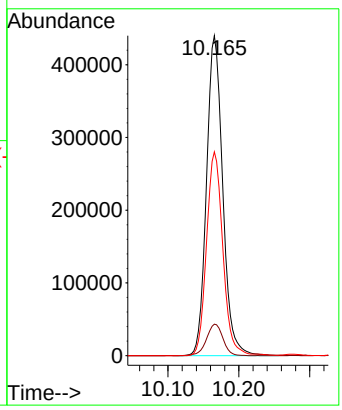


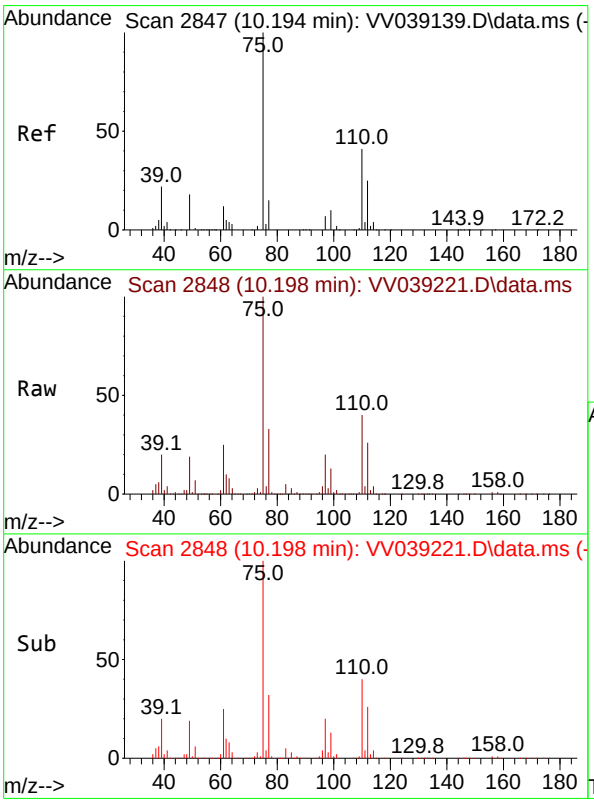

#75
1,1,2,2-Tetrachloroethane
Concen: 43.582 ug/l
RT: 10.165 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 83 Resp: 700437

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.0 | 4.5 | 13.7 |
| 85 | 64.1 | 31.9 | 95.9 |

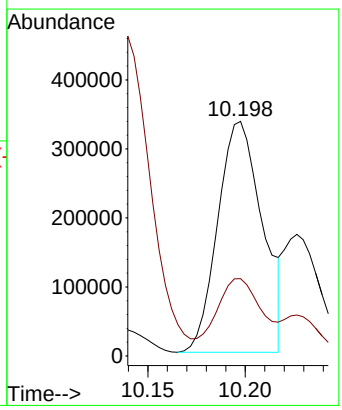


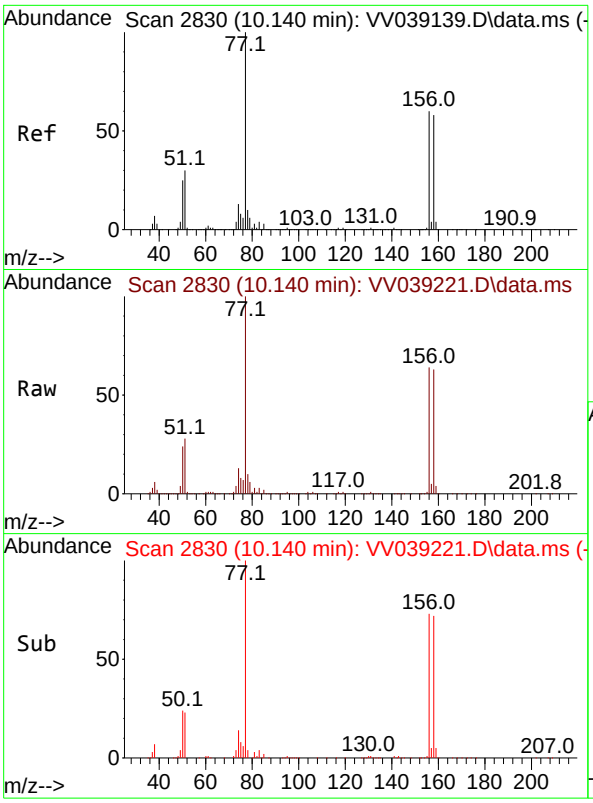




#76
1,2,3-Trichloropropane
Concen: 46.372 ug/l
RT: 10.198 min Scan# 2848
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 75 Resp: 533949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 22.9 | 11.3 | 33.8 |



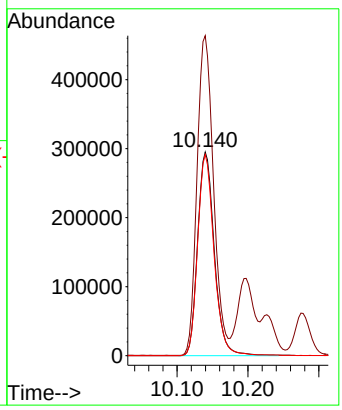


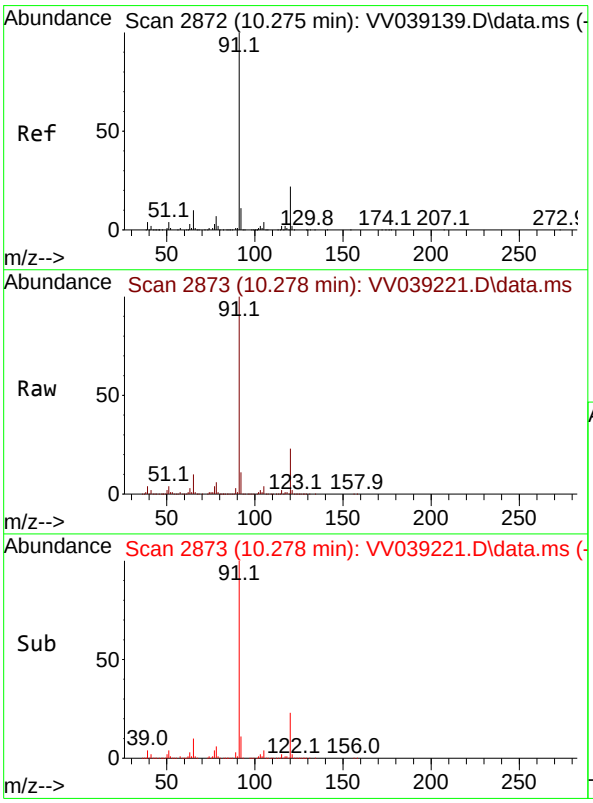

#77
Bromobenzene
Concen: 50.721 ug/l
RT: 10.140 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:156 Resp: 482692

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 154.6 | 83.4 | 250.1 |
| 158 | 96.9 | 48.8 | 146.4 |

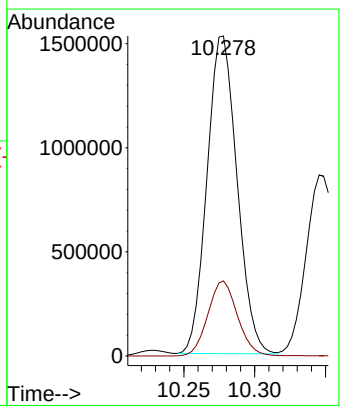


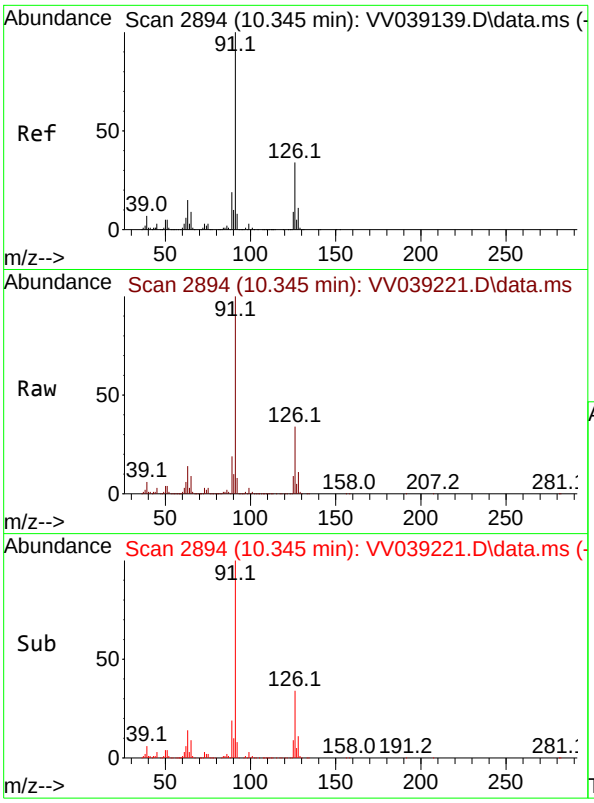




#78
n-propylbenzene
Concen: 50.455 ug/l
RT: 10.278 min Scan# 2873
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 91 Resp: 2253738

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 23.4 | 11.1 | 33.3 |



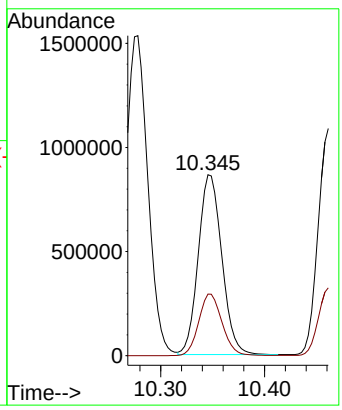


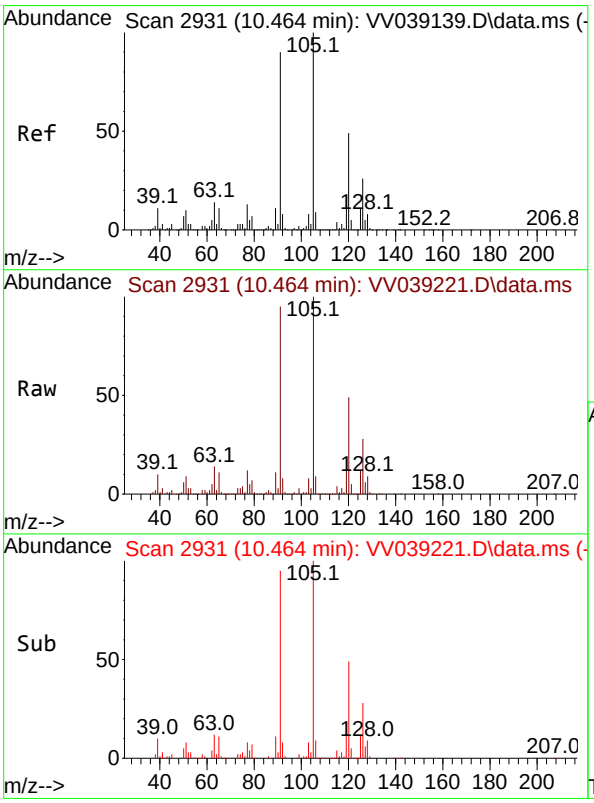

#79
2-Chlorotoluene
Concen: 50.902 ug/l
RT: 10.345 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 91 Resp: 1360520

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.0 | 16.7 | 50.0 |

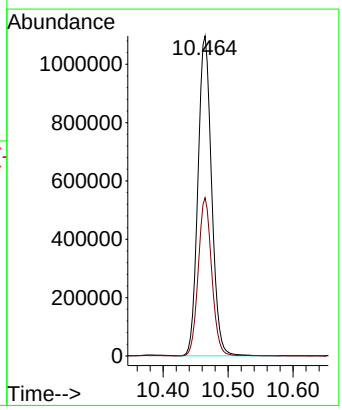


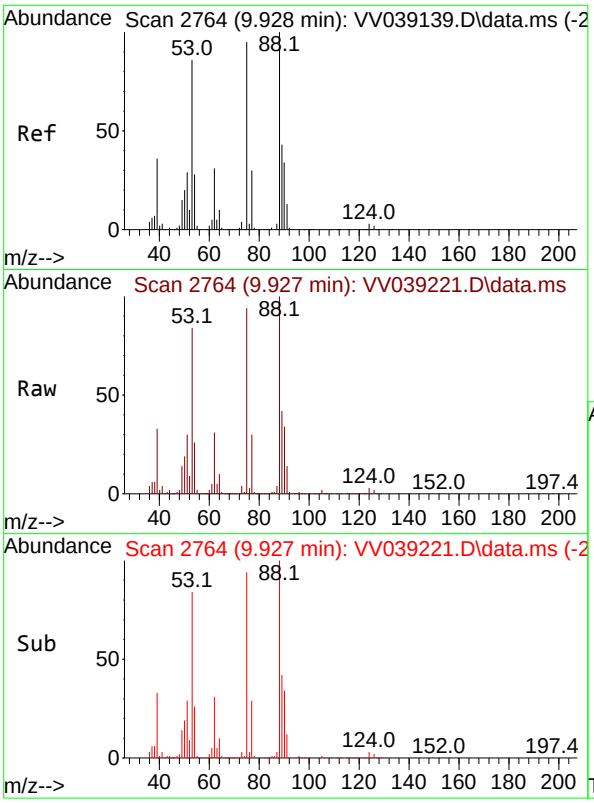




#80
1,3,5-Trimethylbenzene
Concen: 52.744 ug/l
RT: 10.464 min Scan# 2931
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion:105 Resp: 1608070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.8 | 24.3 | 72.8 |



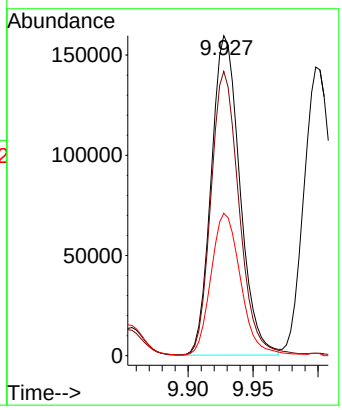


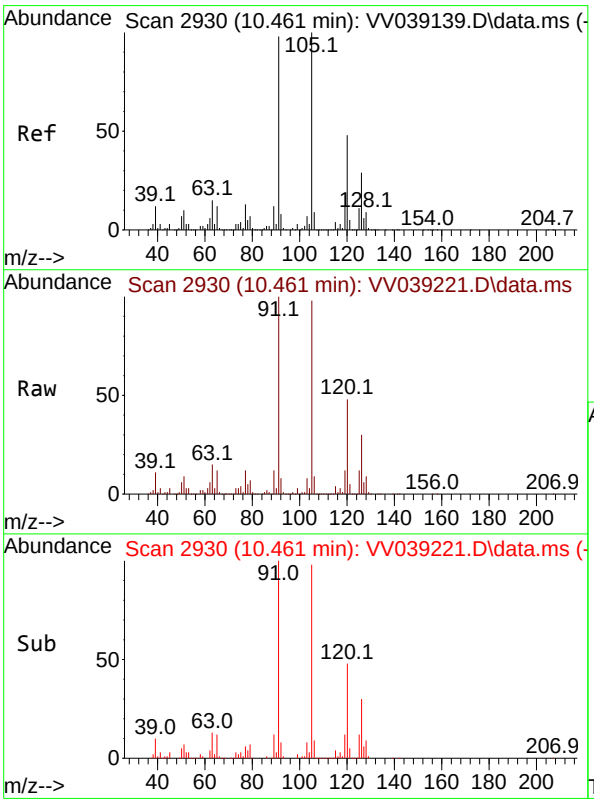

#81
trans-1,4-Dichloro-2-butene
Concen: 50.900 ug/l
RT: 9.927 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 75 Resp: 244133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 87.0 | 72.5 | 108.7 |
| 89 | 46.0 | 37.2 | 55.8 |

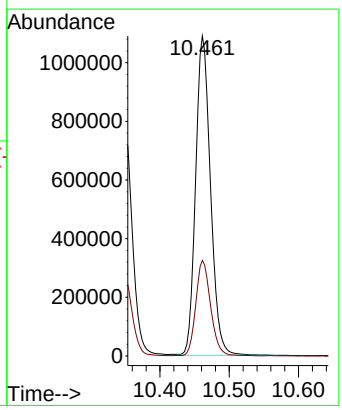


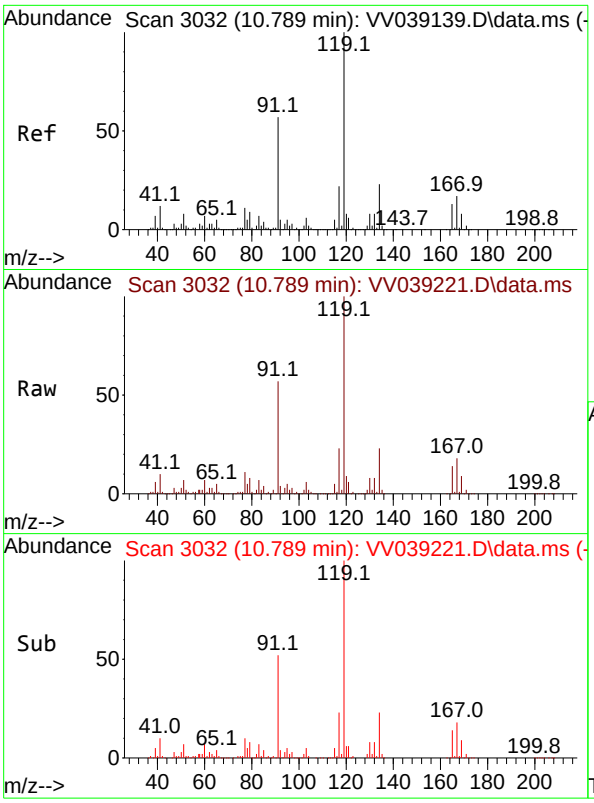




#82
4-Chlorotoluene
Concen: 52.536 ug/l
RT: 10.461 min Scan# 2930
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 91 Resp: 1628242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 29.6 | 14.5 | 43.6 |



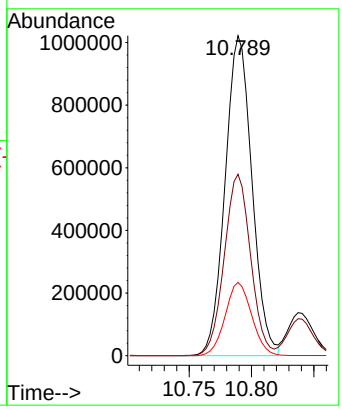


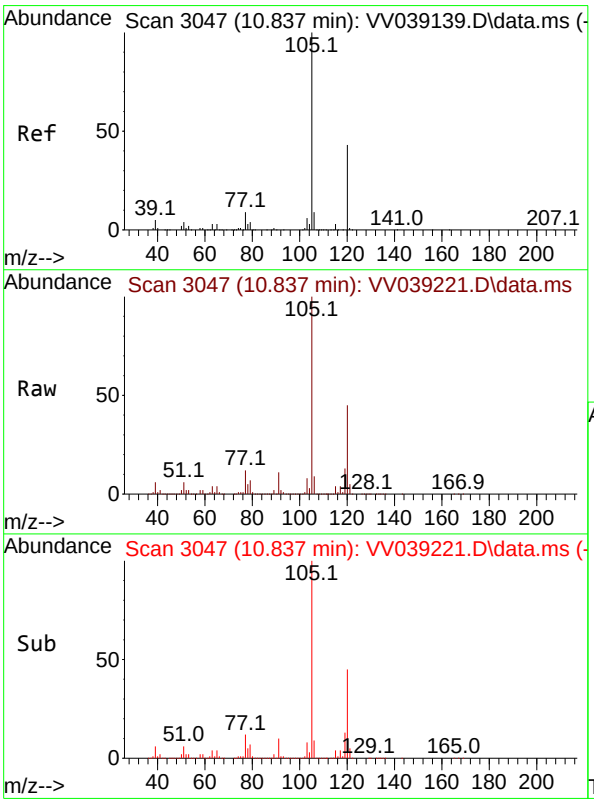

#83
tert-Butylbenzene
Concen: 50.388 ug/l
RT: 10.789 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:119 Resp: 1531883

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 55.7 | 28.5 | 85.6 |
| 134 | 22.7 | 11.5 | 34.4 |

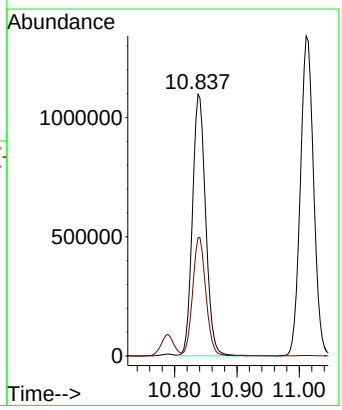


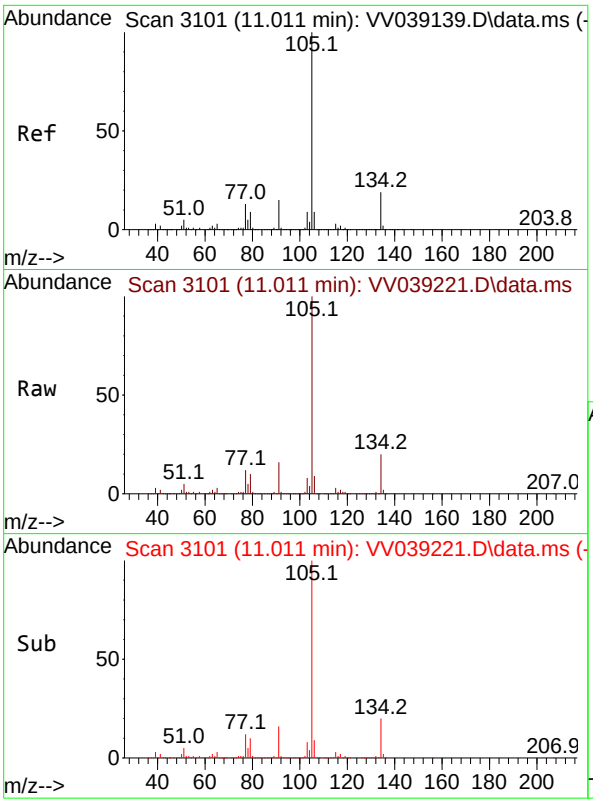




#84
1,2,4-Trimethylbenzene
Concen: 54.363 ug/l
RT: 10.837 min Scan# 3047
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion:105 Resp: 1609100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.3 | 22.4 | 67.2 |



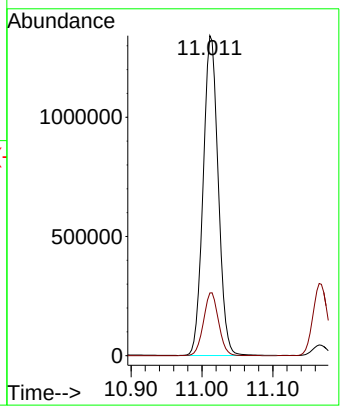


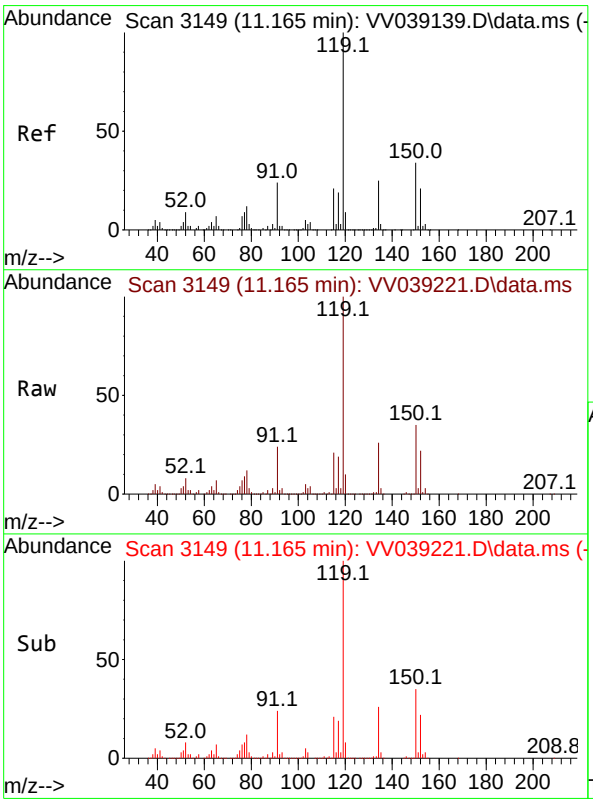

#85
sec-Butylbenzene
Concen: 48.994 ug/l
RT: 11.011 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:105 Resp: 1975626

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.8 | 9.6 | 28.8 |

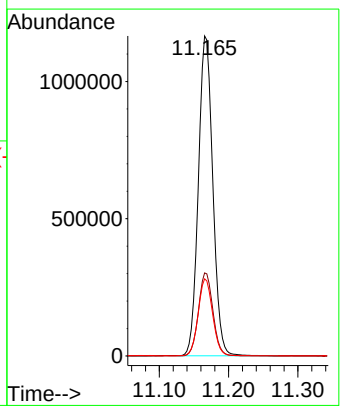


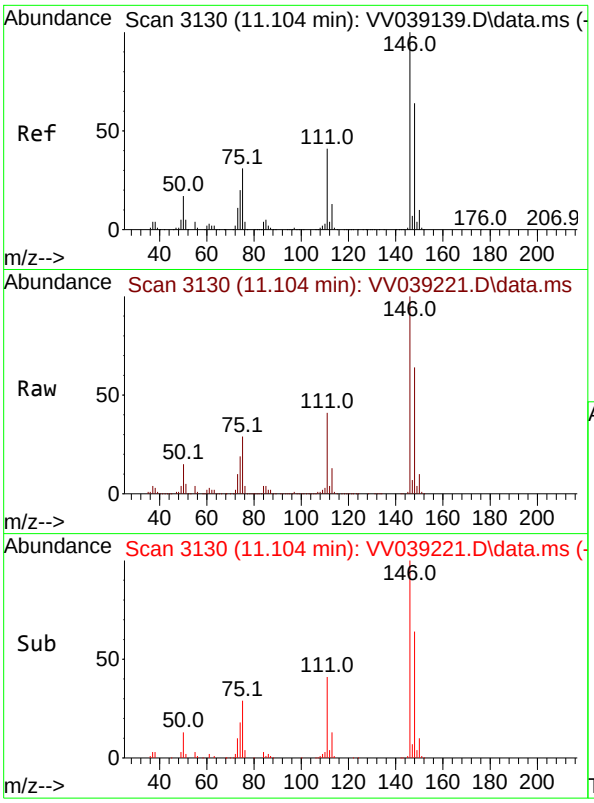




#86
p-Isopropyltoluene
Concen: 50.284 ug/l
RT: 11.165 min Scan# 3149
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion:119 Resp: 1687605

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.9 | 12.7 | 38.0 |
| 91 | 24.0 | 12.0 | 36.1 |



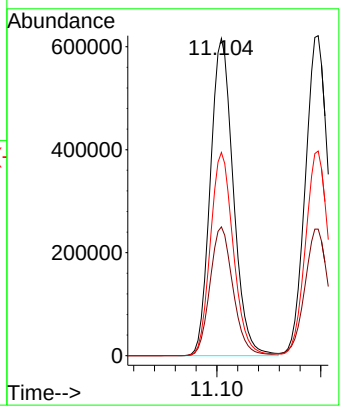


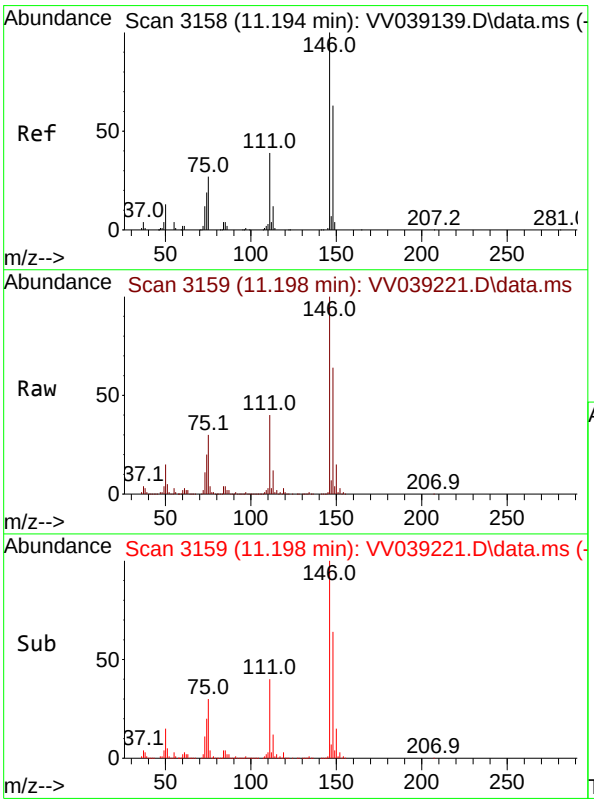

#87
1,3-Dichlorobenzene
Concen: 49.068 ug/l
RT: 11.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:146 Resp: 945060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.6 | 20.9 | 62.8 |
| 148 | 64.2 | 31.8 | 95.3 |

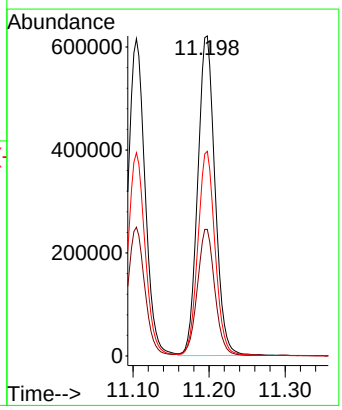


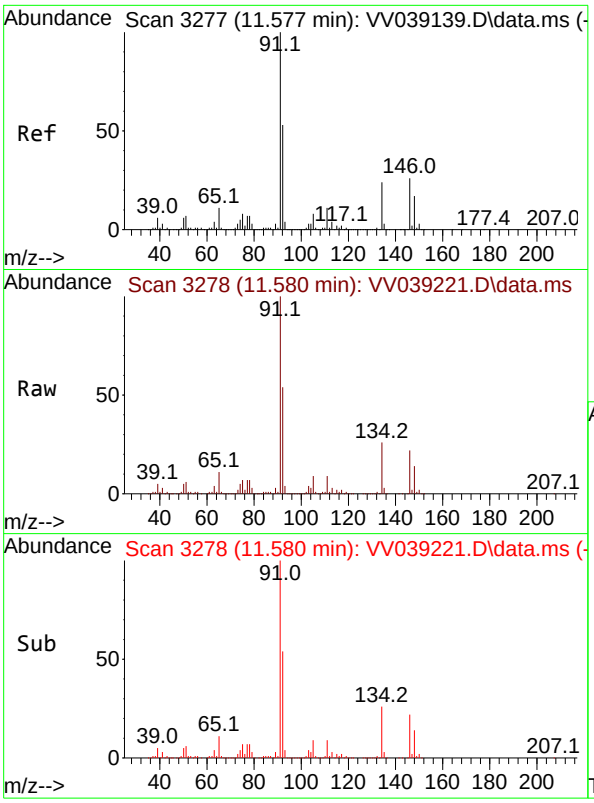




#88
1,4-Dichlorobenzene
Concen: 46.414 ug/l
RT: 11.198 min Scan# 3159
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion:146 Resp: 980757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.8 | 20.3 | 60.8 |
| 148 | 63.5 | 31.4 | 94.2 |



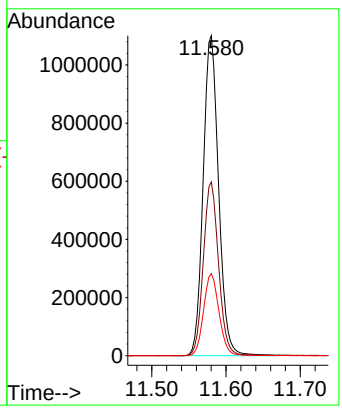


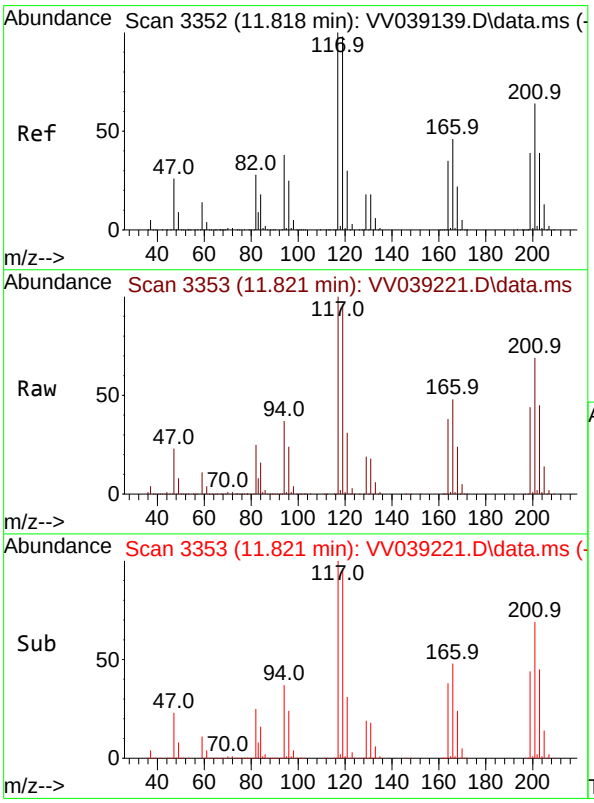

#89
n-Butylbenzene
Concen: 49.442 ug/l
RT: 11.580 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 91 Resp: 1584773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.6 | 26.6 | 79.8 |
| 134 | 25.6 | 12.1 | 36.3 |

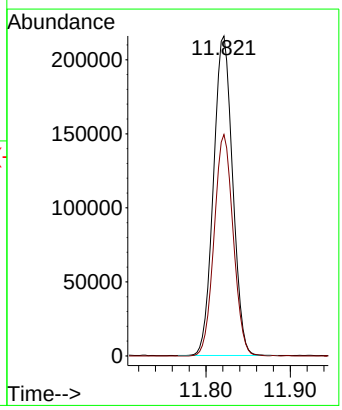


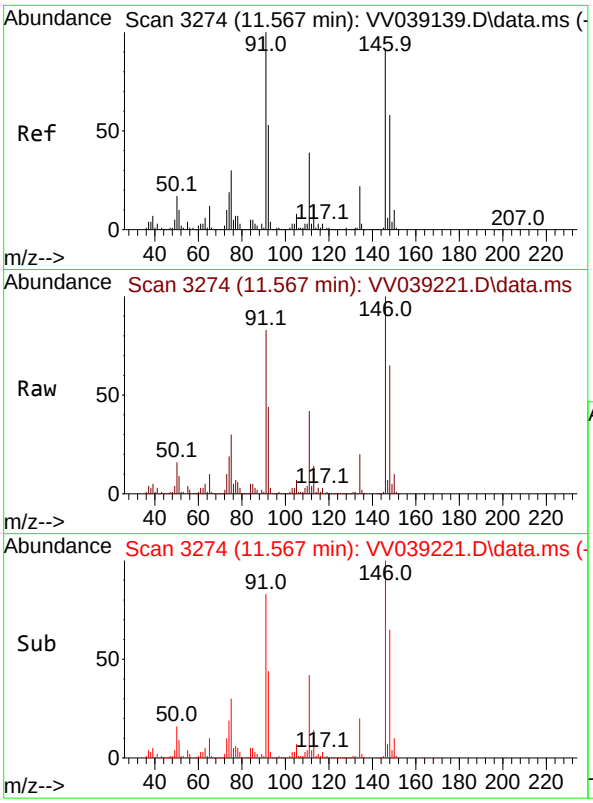




#90
Hexachloroethane
Concen: 41.164 ug/l
RT: 11.821 min Scan# 3353
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion:117 Resp: 340207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 69.0 | 32.3 | 96.8 |



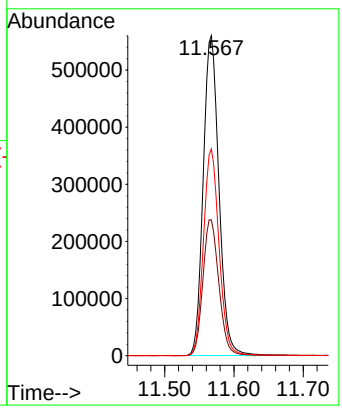


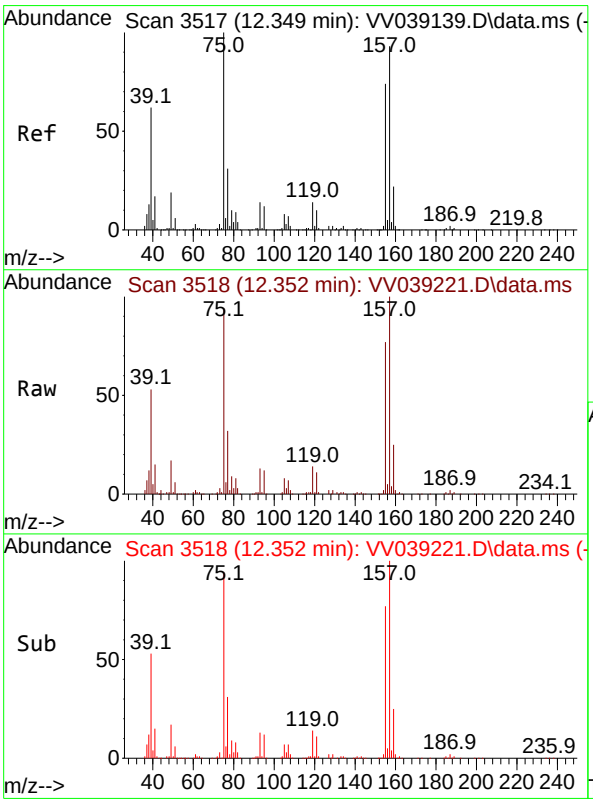

#91
1,2-Dichlorobenzene
Concen: 48.984 ug/l
RT: 11.567 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:146 Resp: 881445

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.1 | 21.5 | 64.5 |
| 148 | 64.3 | 31.9 | 95.7 |

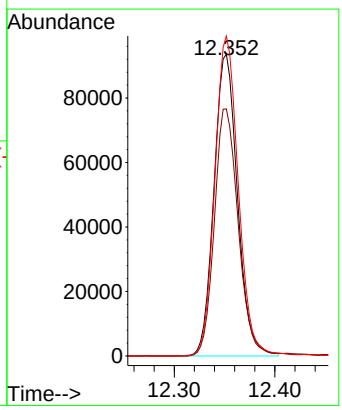


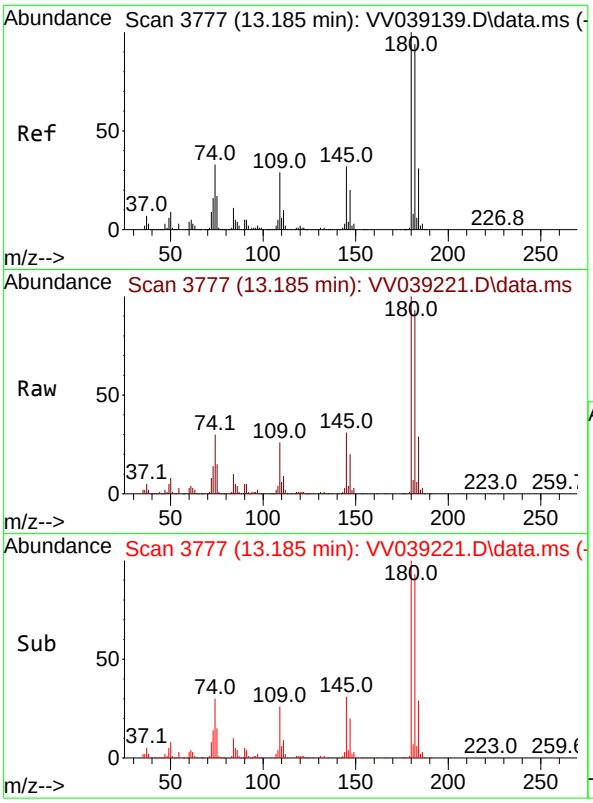




#92
1,2-Dibromo-3-Chloropropane
Concen: 52.555 ug/l
RT: 12.352 min Scan# 3518
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion: 75 Resp: 152326

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 83.2 | 38.6 | 115.8 |
| 157 | 105.7 | 49.5 | 148.3 |



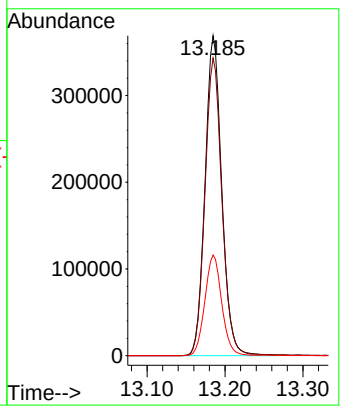


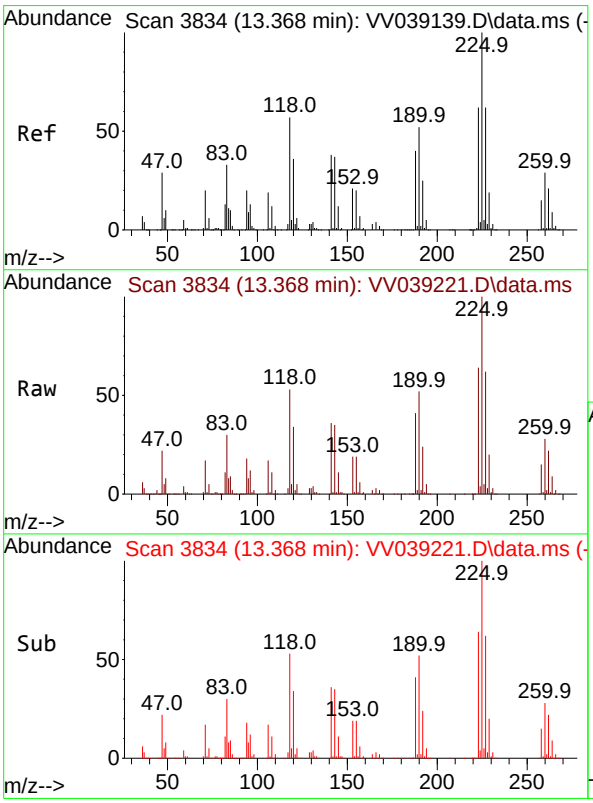

#93
1,2,4-Trichlorobenzene
Concen: 53.472 ug/l
RT: 13.185 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:180 Resp: 551570

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.6 | 47.1 | 141.4 |
| 145 | 31.7 | 16.3 | 48.8 |

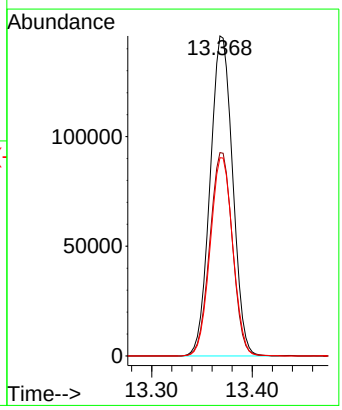


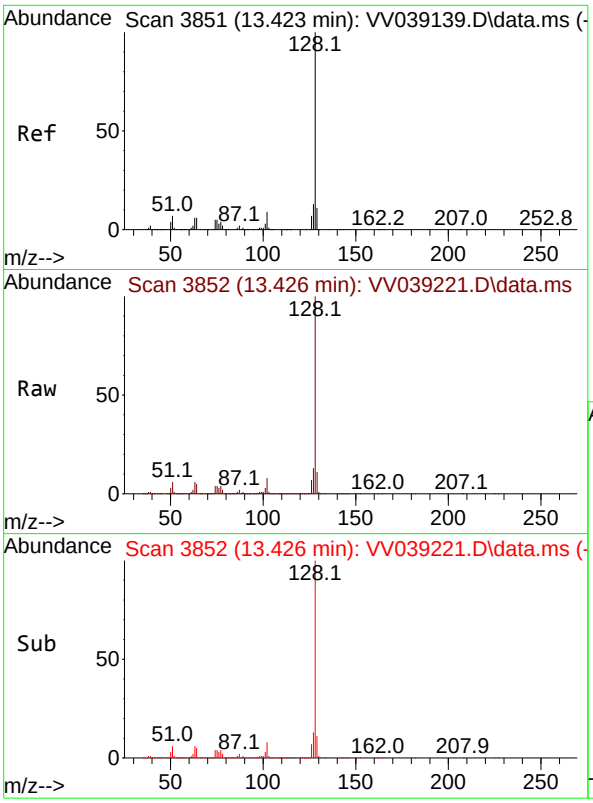




#94
Hexachlorobutadiene
Concen: 42.405 ug/l
RT: 13.368 min Scan# 3834
Delta R.T. -0.000 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion:225 Resp: 227281

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.5 | 31.6 | 94.7 |
| 227 | 61.9 | 31.8 | 95.4 |



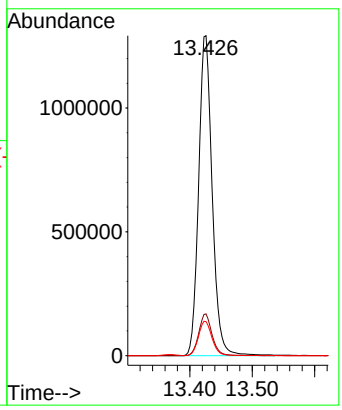


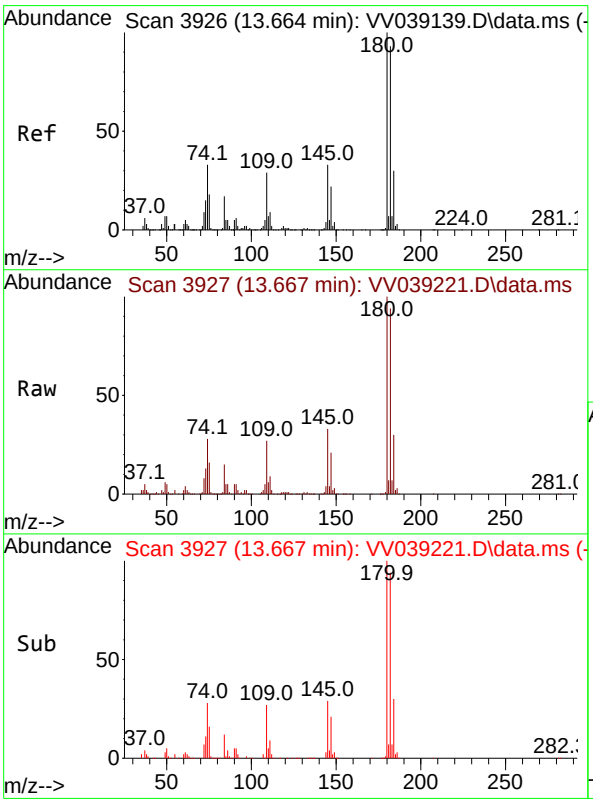

#95
Naphthalene
Concen: 58.576 ug/l
RT: 13.426 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

**Instrument :**
MSVOA_V
**ClientSampleId :**
VSTDCCC050

Tgt Ion:128 Resp: 1952932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.8 | 10.3 | 15.5 |
| 129 | 10.7 | 8.6 | 13.0 |

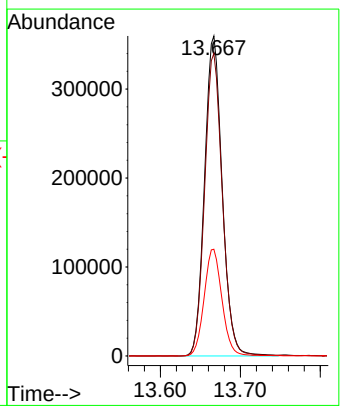



#96
1,2,3-Trichlorobenzene
Concen: 52.439 ug/l
RT: 13.667 min Scan# 3927
Delta R.T. 0.003 min
Lab File: VV039221.D
Acq: 29 Sep 2025 11:11

Tgt Ion:180 Resp: 553227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.3 | 46.9 | 140.8 |
| 145 | 33.8 | 17.0 | 51.0 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039221.D
Acq On : 29 Sep 2025 11:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**LabSampleId :**
VSTDCCC050

Quant Time: Sep 30 01:18:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 100 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.791 | 0.659 | 16.7 | 89 | 0.00 |
| 3 | P | Chloromethane | 0.850 | 0.707 | 16.8 | 92 | 0.00 |
| 4 | C | Vinyl Chloride | 0.910 | 0.786 | 13.6# | 94 | 0.00 |
| 5 | T | Bromomethane | 0.573 | 0.490 | 14.5 | 97 | 0.00 |
| 6 | T | Chloroethane | 0.631 | 0.491 | 22.2# | 92 | 0.00 |
| 7 | T | Trichlorofluoromethane | 1.317 | 1.189 | 9.7 | 100 | 0.00 |
| 8 | T | Diethyl Ether | 0.489 | 0.440 | 10.0 | 99 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.784 | 0.724 | 7.7 | 103 | 0.00 |
| 10 | T | Methyl Iodide | 0.746 | 0.768 | -2.9 | 98 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.153 | 0.157 | -2.6 | 115 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.754 | 0.695 | 7.8# | 103 | 0.00 |
| 13 | T | Acrolein | 0.027 | 0.024 | 11.1 | 91 | 0.00 |
| 14 | T | Allyl chloride | 1.347 | 1.184 | 12.1 | 95 | 0.00 |
| 15 | T | Acrylonitrile | 0.490 | 0.440 | 10.2 | 101 | 0.00 |
| 16 | T | Acetone | 0.523 | 0.434 | 17.0 | 97 | 0.00 |
| 17 | T | Carbon Disulfide | 2.306 | 1.828 | 20.7# | 88 | 0.00 |
| 18 | T | Methyl Acetate | 1.072 | 1.050 | 2.1 | 107 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 2.402 | 2.254 | 6.2 | 101 | 0.00 |
| 20 | T | Methylene Chloride | 1.066 | 0.767 | 28.0# | 99 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.803 | 0.724 | 9.8 | 100 | 0.00 |
| 22 | T | Diisopropyl ether | 2.576 | 2.248 | 12.7 | 89 | 0.00 |
| 23 | T | Vinyl Acetate | 2.254 | 1.985 | 11.9 | 90 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.576 | 1.334 | 15.4 | 96 | 0.00 |
| 25 | T | 2-Butanone | 0.579 | 0.558 | 3.6 | 95 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 1.397 | 1.160 | 17.0 | 94 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.885 | 0.827 | 6.6 | 95 | 0.00 |
| 28 | T | Bromochloromethane | 0.696 | 0.617 | 11.4 | 91 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.363 | 0.349 | 3.9 | 95 | 0.00 |
| 30 | C | Chloroform | 1.645 | 1.392 | 15.4# | 94 | 0.00 |
| 31 | T | Cyclohexane | 1.291 | 1.037 | 19.7 | 83 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.424 | 1.220 | 14.3 | 94 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.724 | 0.620 | 14.4 | 96 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 94 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.402 | 0.411 | -2.2 | 103 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.608 | 0.591 | 2.8 | 90 | 0.00 |
| 37 | T | Ethyl Acetate | 0.737 | 0.698 | 5.3 | 92 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.743 | 0.703 | 5.4 | 94 | 0.00 |
| 39 | T | Methylcyclohexane | 0.734 | 0.707 | 3.7 | 81 | 0.00 |
| 40 | TM | Benzene | 1.979 | 1.913 | 3.3 | 91 | 0.00 |
| 41 | T | Methacrylonitrile | 0.273 | 0.321 | -17.6 | 91 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.693 | 0.637 | 8.1 | 90 | 0.00 |
| 43 | T | Isopropyl Acetate | 1.005 | 1.025 | -2.0 | 90 | 0.00 |
| 44 | TM | Trichloroethene | 0.457 | 0.476 | -4.2 | 97 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.492 | 0.485 | 1.4# | 91 | 0.00 |
| 46 | T | Dibromomethane | 0.376 | 0.369 | 1.9 | 95 | 0.00 |
| 47 | T | Bromodichloromethane | 0.778 | 0.737 | 5.3 | 92 | 0.00 |
| 48 | T | Methyl methacrylate | 0.456 | 0.487 | -6.8 | 91 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039221.D
Acq On : 29 Sep 2025 11:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**LabSampleId :**
VSTDCCC050

Quant Time: Sep 30 01:18:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 0.007 | 0.008 | -14.3 | 101 | 0.00 |
| 50 | S | Toluene-d8 | 1.181 | 1.144 | 3.1 | 95 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.661 | 0.717 | -8.5 | 92 | 0.00 |
| 52 | CM | Toluene | 1.147 | 1.217 | -6.1# | 93 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.678 | 0.731 | -7.8 | 95 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.749 | 0.796 | -6.3 | 92 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.514 | 0.522 | -1.6 | 99 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.611 | 0.718 | -17.5 | 94 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.812 | 0.818 | -0.7 | 94 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.267 | 0.324 | -21.3# | 86 | 0.00 |
| 59 | T | 2-Hexanone | 0.463 | 0.545 | -17.7 | 94 | 0.00 |
| 60 | T | Dibromochloromethane | 0.586 | 0.600 | -2.4 | 100 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.526 | 0.548 | -4.2 | 98 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.486 | 0.554 | -14.0 | 103 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 94 | 0.00 |
| 64 | T | Tetrachloroethene | 0.419 | 0.432 | -3.1 | 99 | 0.00 |
| 65 | PM | Chlorobenzene | 1.393 | 1.410 | -1.2 | 96 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.503 | 0.517 | -2.8 | 100 | 0.00 |
| 67 | C | Ethyl Benzene | 2.108 | 2.316 | -9.9# | 91 | 0.00 |
| 68 | T | m/p-Xylenes | 0.814 | 0.942 | -15.7 | 93 | 0.00 |
| 69 | T | o-Xylene | 0.720 | 0.851 | -18.2 | 95 | 0.00 |
| 70 | T | Styrene | 1.263 | 1.571 | -24.4# | 95 | 0.00 |
| 71 | P | Bromoform | 0.393 | 0.447 | -13.7 | 106 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 98 | 0.00 |
| 73 | T | Isopropylbenzene | 3.627 | 3.675 | -1.3 | 91 | 0.00 |
| 74 | T | N-amyl acetate | 1.447 | 1.531 | -5.8 | 90 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.589 | 1.385 | 12.8 | 95 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.138 | 1.056 | 7.2 | 99 | 0.00 |
| 77 | T | Bromobenzene | 0.941 | 0.954 | -1.4 | 101 | 0.00 |
| 78 | T | n-propylbenzene | 4.416 | 4.456 | -0.9 | 89 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.643 | 2.690 | -1.8 | 93 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.014 | 3.180 | -5.5 | 92 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.474 | 0.483 | -1.9 | 96 | 0.00 |
| 82 | T | 4-Chlorotoluene | 3.064 | 3.220 | -5.1 | 95 | 0.00 |
| 83 | T | tert-Butylbenzene | 3.006 | 3.029 | -0.8 | 92 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.926 | 3.182 | -8.7 | 92 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.987 | 3.907 | 2.0 | 88 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.318 | 3.337 | -0.6 | 89 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.904 | 1.869 | 1.8 | 99 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 2.089 | 1.939 | 7.2 | 98 | 0.00 |
| 89 | T | n-Butylbenzene | 3.169 | 3.134 | 1.1 | 85 | 0.00 |
| 90 | T | Hexachloroethane | 0.817 | 0.673 | 17.6 | 91 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.779 | 1.743 | 2.0 | 98 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.330 | 0.301 | 8.8 | 103 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 1.020 | 1.091 | -7.0 | 99 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.530 | 0.449 | 15.3 | 92 | 0.00 |
| 95 | T | Naphthalene | 3.296 | 3.862 | -17.2 | 99 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039221.D
Acq On : 29 Sep 2025 11:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**LabSampleId :**
VSTDCCC050

Quant Time: Sep 30 01:18:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 1.043 | 1.094 | -4.9 | 97 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039221.D
Acq On : 29 Sep 2025 11:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**LabSampleId :**
VSTDCCC050

Quant Time: Sep 30 01:18:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 100 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 41.647 | 16.7 | 89 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 41.595 | 16.8 | 92 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 43.208 | 13.6# | 94 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 42.719 | 14.6 | 97 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 45.569 | 8.9 | 92 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 45.139 | 9.7 | 100 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 44.959 | 10.1 | 99 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 46.193 | 7.6 | 103 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 51.451 | -2.9 | 98 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 257.107 | -2.8 | 115 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 46.086 | 7.8# | 103 | 0.00 |
| 13 | T | Acrolein | 250.000 | 224.989 | 10.0 | 91 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 43.958 | 12.1 | 95 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 224.569 | 10.2 | 101 | 0.00 |
| 16 | T | Acetone | 250.000 | 241.983 | 3.2 | 97 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 39.644 | 20.7# | 88 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 48.974 | 2.1 | 107 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 46.904 | 6.2 | 101 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 48.961 | 2.1 | 99 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 45.121 | 9.8 | 100 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 43.628 | 12.7 | 89 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 220.202 | 11.9 | 90 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 42.328 | 15.3 | 96 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 240.588 | 3.8 | 95 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 41.534 | 16.9 | 94 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 46.691 | 6.6 | 95 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 44.343 | 11.3 | 91 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 240.344 | 3.9 | 95 | 0.00 |
| 30 | C | Chloroform | 50.000 | 42.297 | 15.4# | 94 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 40.190 | 19.6 | 83 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 42.812 | 14.4 | 94 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 42.808 | 14.4 | 96 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 94 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 51.100 | -2.2 | 103 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 48.595 | 2.8 | 90 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 47.309 | 5.4 | 92 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 47.329 | 5.3 | 94 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 48.172 | 3.7 | 81 | 0.00 |
| 40 | TM | Benzene | 50.000 | 48.334 | 3.3 | 91 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 48.162 | 3.7 | 91 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 45.932 | 8.1 | 90 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 50.981 | -2.0 | 90 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 52.139 | -4.3 | 97 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 49.295 | 1.4# | 91 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 49.060 | 1.9 | 95 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 47.336 | 5.3 | 92 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 53.435 | -6.9 | 91 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039221.D
Acq On : 29 Sep 2025 11:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**LabSampleId :**
VSTDCCC050

Quant Time: Sep 30 01:18:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 1000.000 | 1093.922 | -9.4 | 101 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 48.458 | 3.1 | 95 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 271.028 | -8.4 | 92 | 0.00 |
| 52 | CM | Toluene | 50.000 | 53.051 | -6.1# | 93 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 53.914 | -7.8 | 95 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 53.126 | -6.3 | 92 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 50.719 | -1.4 | 99 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 58.788 | -17.6 | 94 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 50.365 | -0.7 | 94 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 235.318 | 5.9 | 86 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 255.225 | -2.1 | 94 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 51.151 | -2.3 | 100 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 52.094 | -4.2 | 98 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 57.013 | -14.0 | 103 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 94 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 51.636 | -3.3 | 99 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 50.604 | -1.2 | 96 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 51.392 | -2.8 | 100 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 54.927 | -9.9# | 91 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 115.793 | -15.8 | 93 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 59.062 | -18.1 | 95 | 0.00 |
| 70 | T | Styrene | 50.000 | 51.432 | -2.9 | 95 | 0.00 |
| 71 | P | Bromoform | 50.000 | 56.878 | -13.8 | 106 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 98 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 50.669 | -1.3 | 91 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 52.920 | -5.8 | 90 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 43.582 | 12.8 | 95 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 46.372 | 7.3 | 99 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 50.721 | -1.4 | 101 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 50.455 | -0.9 | 89 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 50.902 | -1.8 | 93 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 52.744 | -5.5 | 92 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 50.900 | -1.8 | 96 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 52.536 | -5.1 | 95 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 50.388 | -0.8 | 92 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 54.363 | -8.7 | 92 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 48.994 | 2.0 | 88 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 50.284 | -0.6 | 89 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 49.068 | 1.9 | 99 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 46.414 | 7.2 | 98 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 49.442 | 1.1 | 85 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 41.164 | 17.7 | 91 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 48.984 | 2.0 | 98 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 52.555 | -5.1 | 103 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 53.472 | -6.9 | 99 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 42.405 | 15.2 | 92 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 58.576 | -17.2 | 99 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039221.D
Acq On : 29 Sep 2025 11:11
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**LabSampleId :**
VSTDCCC050

Quant Time: Sep 30 01:18:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 52.439 | -4.9 | 97 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

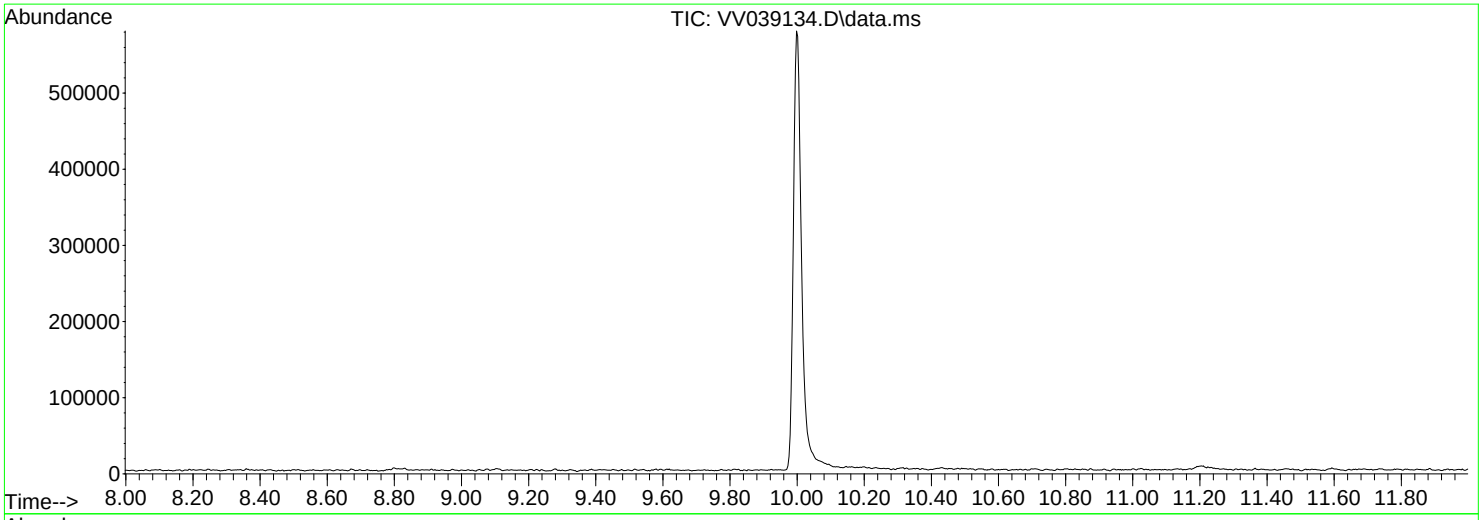
# QC SAMPLE DATA

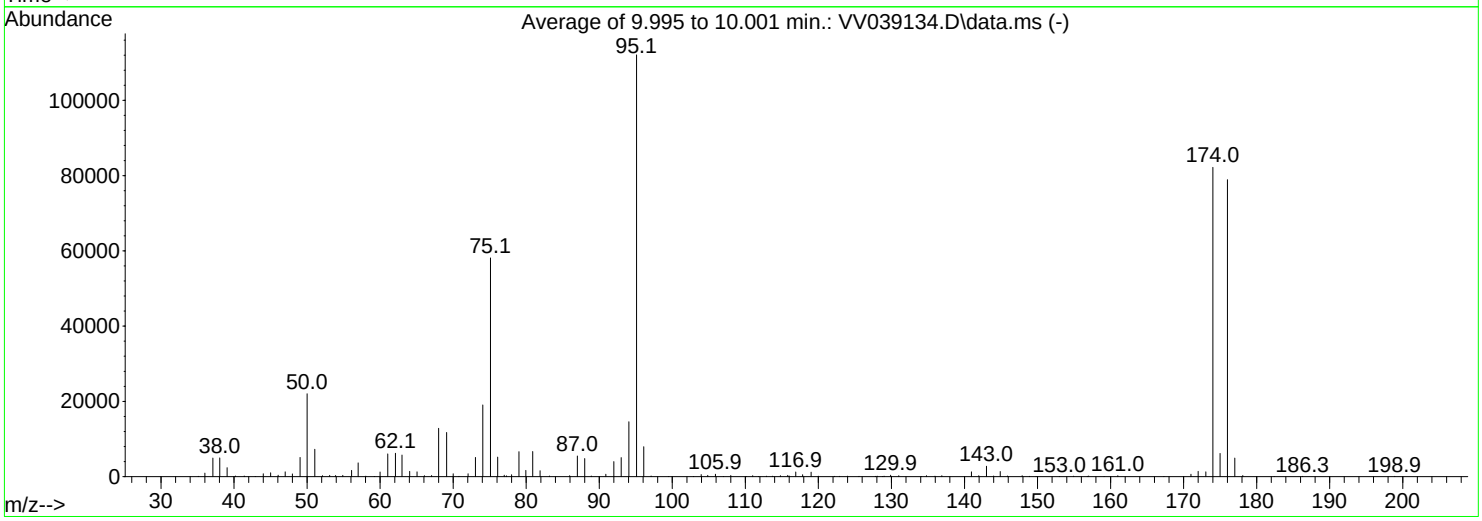
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092225\
Data File : VV039134.D
Acq On : 22 Sep 2025 10:15
Operator : SY/MD
Sample : BFB
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260
Last Update : Wed Sep 24 08:08:08 2025




AutoFind: Scans 2785, 2786, 2787; Background Corrected with Scan 2774

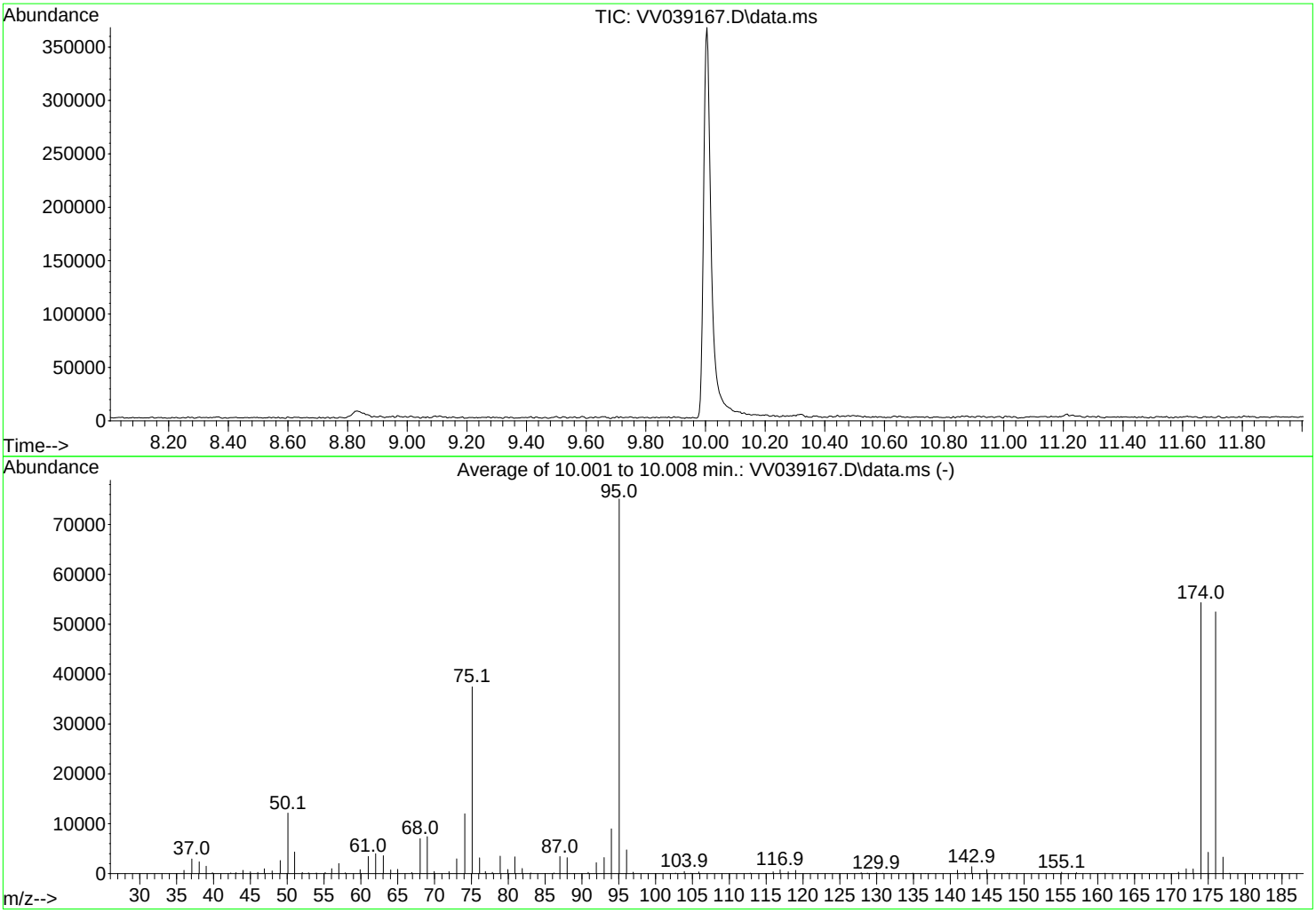
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 19.6 | 22014 | PASS |
| 75 | 95 | 30 | 60 | 51.9 | 58147 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 112096 | PASS |
| 96 | 95 | 5 | 9 | 7.1 | 7955 | PASS |
| 173 | 174 | 0.00 | 2 | 1.6 | 1275 | PASS |
| 174 | 95 | 50 | 100 | 73.3 | 82200 | PASS |
| 175 | 174 | 5 | 9 | 7.5 | 6152 | PASS |
| 176 | 174 | 95 | 101 | 96.0 | 78917 | PASS |
| 177 | 176 | 5 | 9 | 6.3 | 4933 | PASS |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039167.D
Acq On : 25 Sep 2025 09:14
Operator : SY/MD
Sample : BFB
Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260
Last Update : Wed Sep 24 08:08:08 2025




AutoFind: Scans 2787, 2788, 2789; Background Corrected with Scan 2776

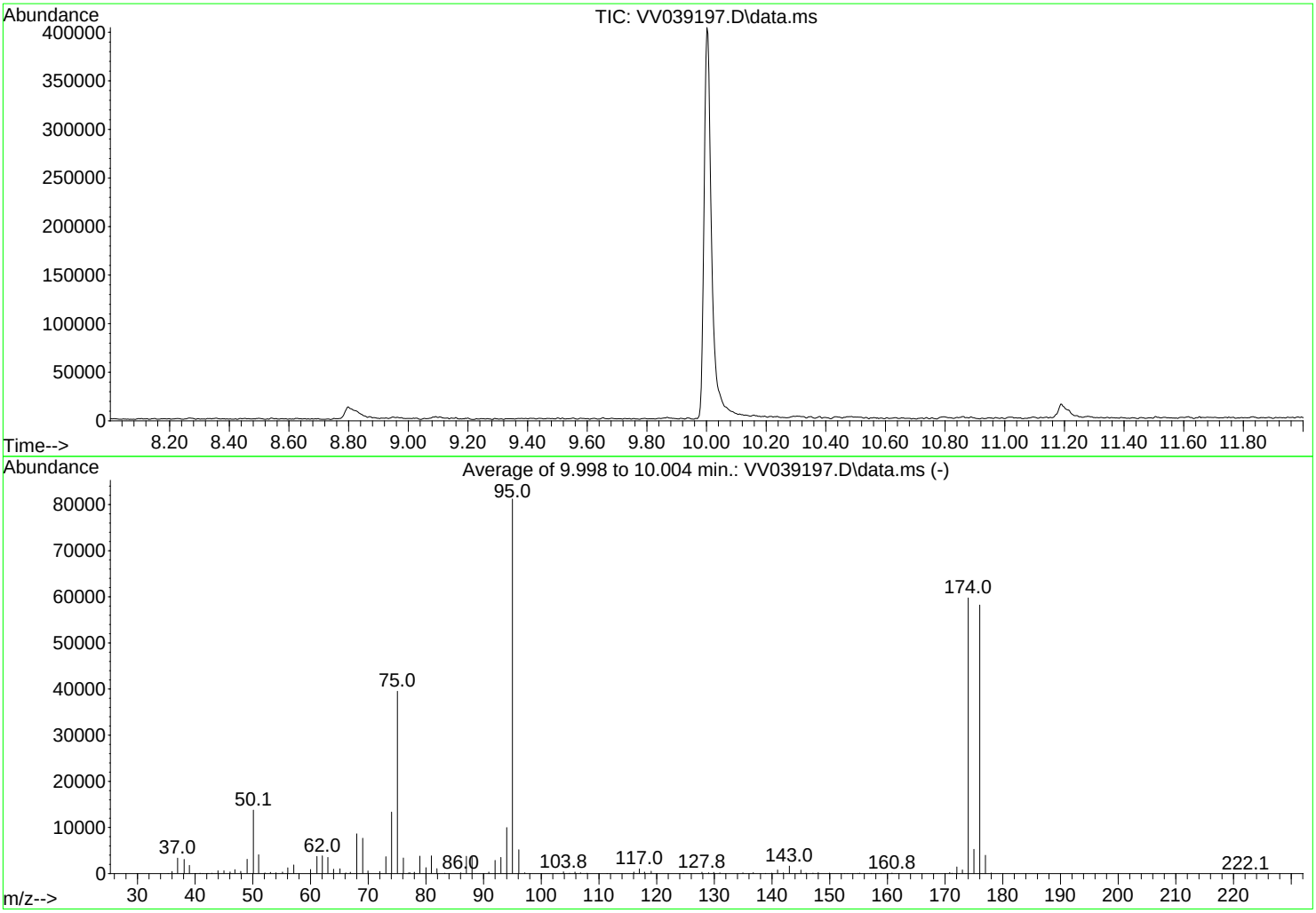
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 16.2 | 12139 | PASS |
| 75 | 95 | 30 | 60 | 49.9 | 37445 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 75093 | PASS |
| 96 | 95 | 5 | 9 | 6.3 | 4756 | PASS |
| 173 | 174 | 0.00 | 2 | 1.7 | 944 | PASS |
| 174 | 95 | 50 | 100 | 72.3 | 54320 | PASS |
| 175 | 174 | 5 | 9 | 7.9 | 4279 | PASS |
| 176 | 174 | 95 | 101 | 96.6 | 52461 | PASS |
| 177 | 176 | 5 | 9 | 6.3 | 3317 | PASS |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039197.D
Acq On : 26 Sep 2025 08:14
Operator : SY/MD
Sample : BFB
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260
Last Update : Wed Sep 24 08:08:08 2025




AutoFind: Scans 2786, 2787, 2788; Background Corrected with Scan 2772

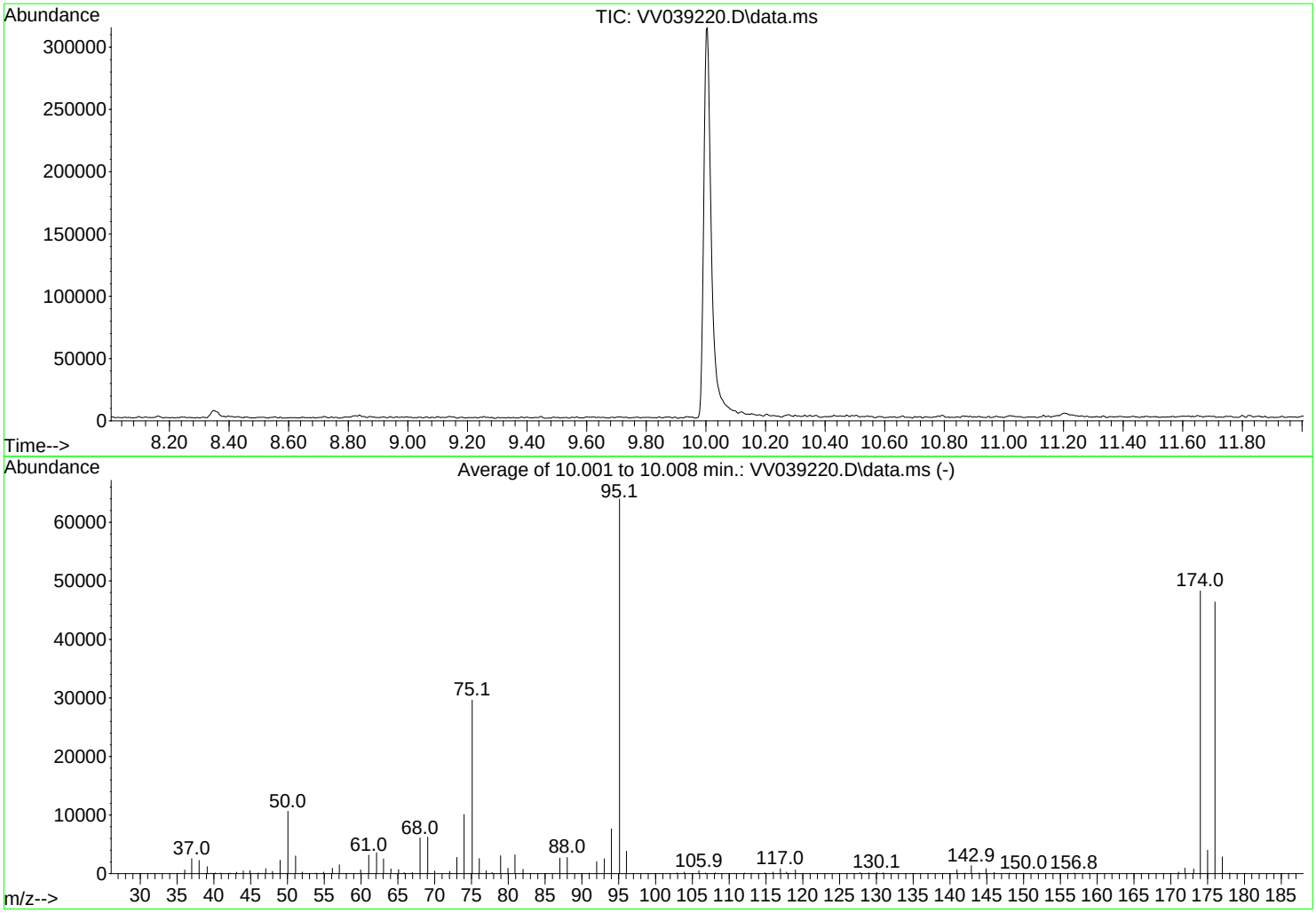
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 16.9 | 13756 | PASS |
| 75 | 95 | 30 | 60 | 48.7 | 39531 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 81205 | PASS |
| 96 | 95 | 5 | 9 | 6.4 | 5186 | PASS |
| 173 | 174 | 0.00 | 2 | 1.4 | 815 | PASS |
| 174 | 95 | 50 | 100 | 73.6 | 59763 | PASS |
| 175 | 174 | 5 | 9 | 8.8 | 5272 | PASS |
| 176 | 174 | 95 | 101 | 97.4 | 58227 | PASS |
| 177 | 176 | 5 | 9 | 6.8 | 3983 | PASS |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039220.D
Acq On : 29 Sep 2025 09:48
Operator : SY/MD
Sample : BFB
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260
Last Update : Wed Sep 24 08:08:08 2025




AutoFind: Scans 2787, 2788, 2789; Background Corrected with Scan 2776

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 16.6 | 10649 | PASS |
| 75 | 95 | 30 | 60 | 46.3 | 29627 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 63979 | PASS |
| 96 | 95 | 5 | 9 | 6.0 | 3829 | PASS |
| 173 | 174 | 0.00 | 2 | 1.7 | 809 | PASS |
| 174 | 95 | 50 | 100 | 75.5 | 48283 | PASS |
| 175 | 174 | 5 | 9 | 8.3 | 4007 | PASS |
| 176 | 174 | 95 | 101 | 96.1 | 46392 | PASS |
| 177 | 176 | 5 | 9 | 6.2 | 2861 | PASS |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | |
| Project: | REAC Commodore | Date Received: | |
| Client Sample ID: | VV0925WBL01 | SDG No.: | Q3195 |
| Lab Sample ID: | VV0925WBL01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039170.D | 1 | 09/25/25 11:01 | VV092525 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.33 | U | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.25 | U | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 1.50 | U | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 0.27 | U | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 1.50 | U | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.25 | U | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.16 | U | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.090 | U | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | U | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.14 | U | 0.14 | 1.00 | ug/L |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | |
| Project: | REAC Commodore | Date Received: | |
| Client Sample ID: | VV0925WBL01 | SDG No.: | Q3195 |
| Lab Sample ID: | VV0925WBL01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039170.D | 1 | 09/25/25 11:01 | VV092525 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.15 | U | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | U | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | U | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.53 | U | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 60.1 | | 74 - 125 | 120% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 53.3 | | 75 - 124 | 107% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 47.3 | | 86 - 113 | 95% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 44.1 | | 77 - 121 | 88% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 480000 | 4.597 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 865000 | 5.532 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 871000 | 8.776 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 414000 | 11.175 | | | |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | |
| Project: | REAC Commodore | Date Received: | |
| Client Sample ID: | VV0925WBL01 | SDG No.: | Q3195 |
| Lab Sample ID: | VV0925WBL01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039170.D | 1 | 09/25/25 11:01 | VV092525 |

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039170.D
Acq On : 25 Sep 2025 11:01
Operator : SY/MD
Sample : VV0925WBL01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBL01

Quant Time: Sep 26 01:20:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

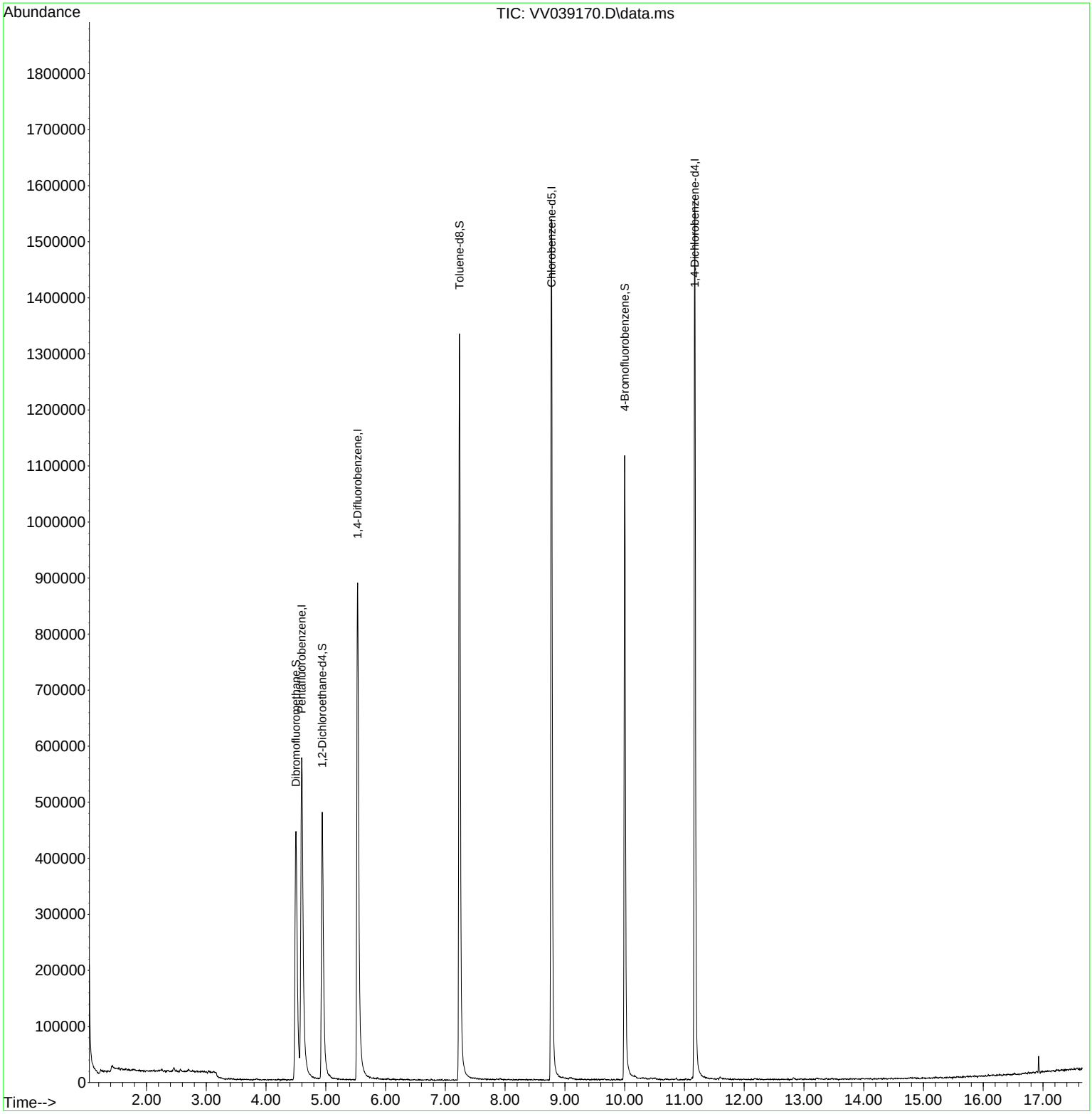
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.597 | 168 | 480047 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.532 | 114 | 864912 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.776 | 117 | 870930 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.175 | 152 | 413592 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.941 | 65 | 417535 | 60.097 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 120.200%# | | | |
| 35) Dibromofluoromethane | 4.500 | 113 | 370419 | 53.273 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 106.540% | | | |
| 50) Toluene-d8 | 7.236 | 98 | 965988 | 47.302 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 94.600% | | | |
| 62) 4-Bromofluorobenzene | 10.001 | 95 | 371030 | 44.133 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 88.260% | | | |
| Target Compounds | | | | | | Qvalue |

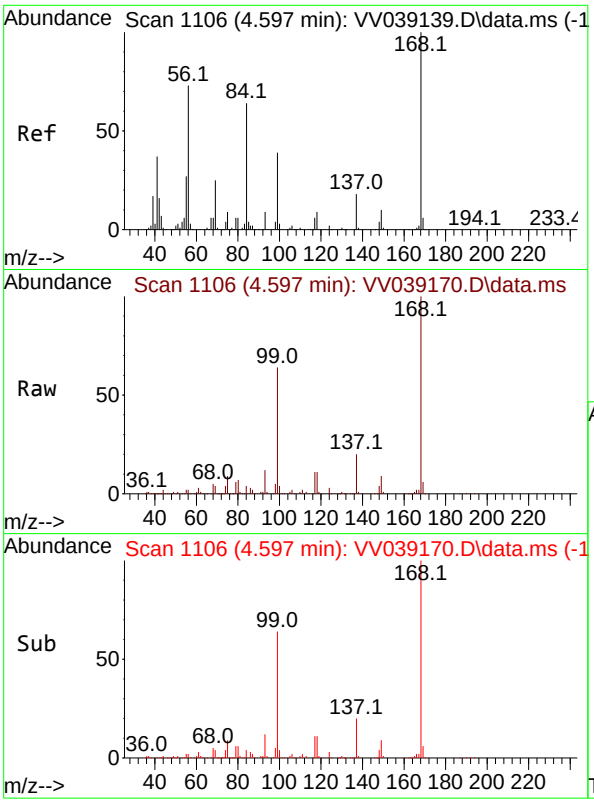
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039170.D
Acq On : 25 Sep 2025 11:01
Operator : SY/MD
Sample : VV0925WBL01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBL01

Quant Time: Sep 26 01:20:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



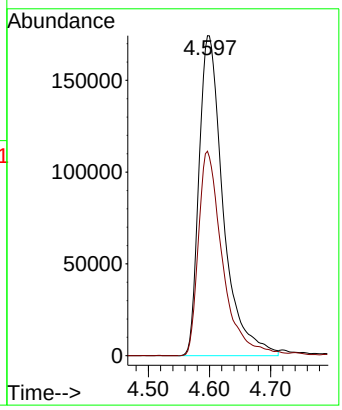


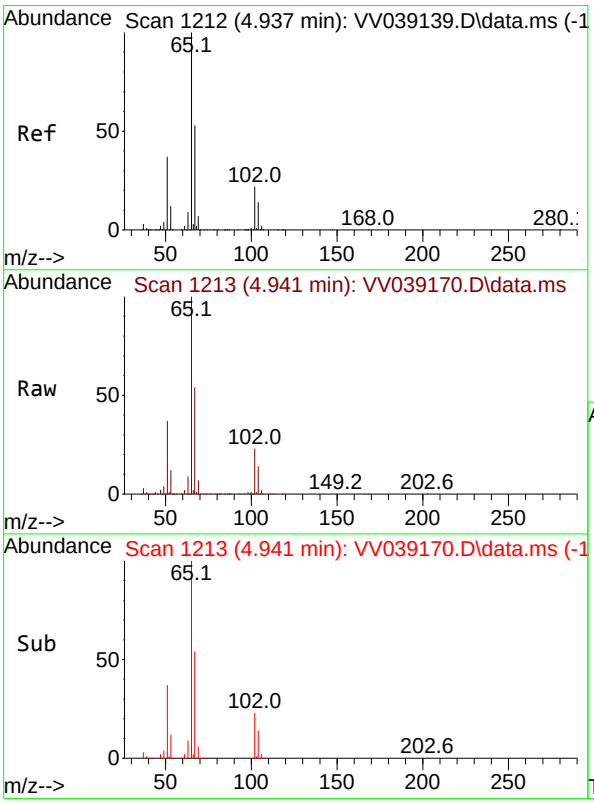

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.597 min Scan# 1
Delta R.T. -0.000 min
Lab File: VV039170.D
Acq: 25 Sep 2025 11:01

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBL01

Tgt Ion:168 Resp: 480047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 63.9 | 49.6 | 74.4 |

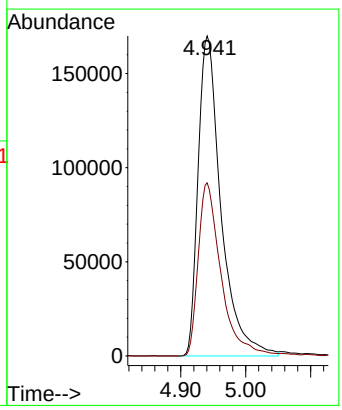


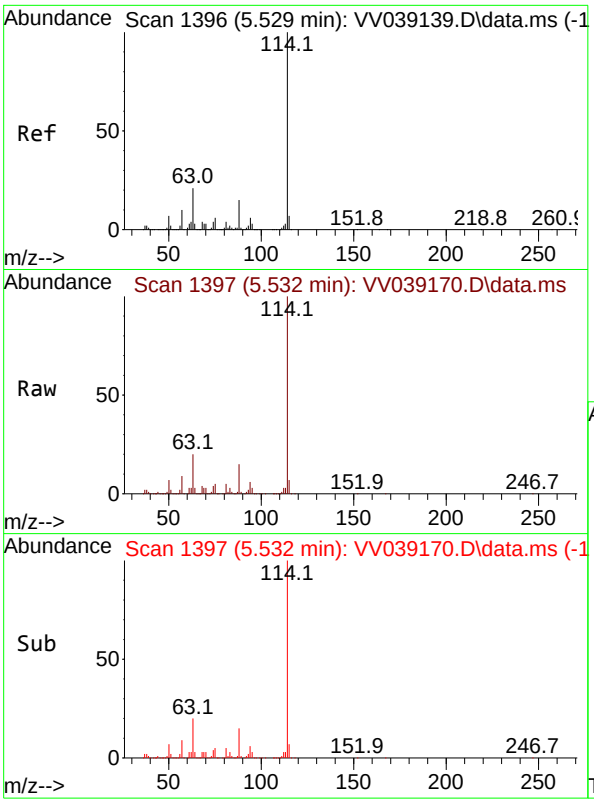




#33
1,2-Dichloroethane-d4
Concen: 60.097 ug/l
RT: 4.941 min Scan# 1213
Delta R.T. 0.003 min
Lab File: VV039170.D
Acq: 25 Sep 2025 11:01

Tgt Ion: 65 Resp: 417535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 54.2 | 0.0 | 107.0 |



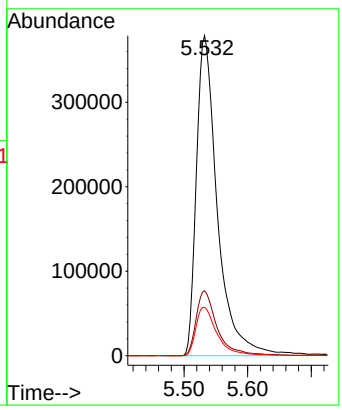


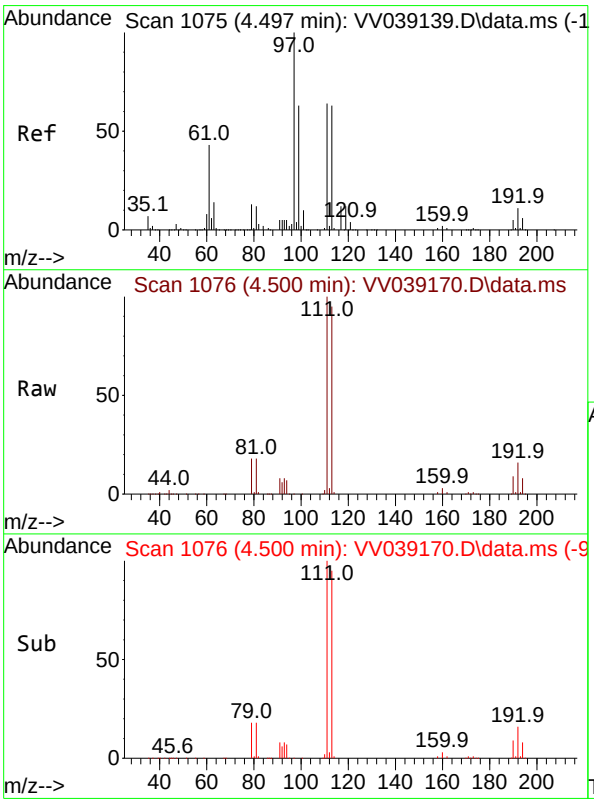

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039170.D
Acq: 25 Sep 2025 11:01

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBL01

Tgt Ion:114 Resp: 864912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.3 | 0.0 | 42.6 |
| 88 | 15.1 | 0.0 | 30.8 |

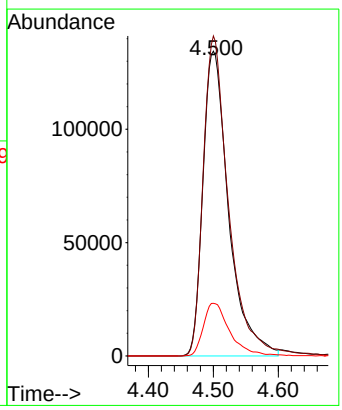


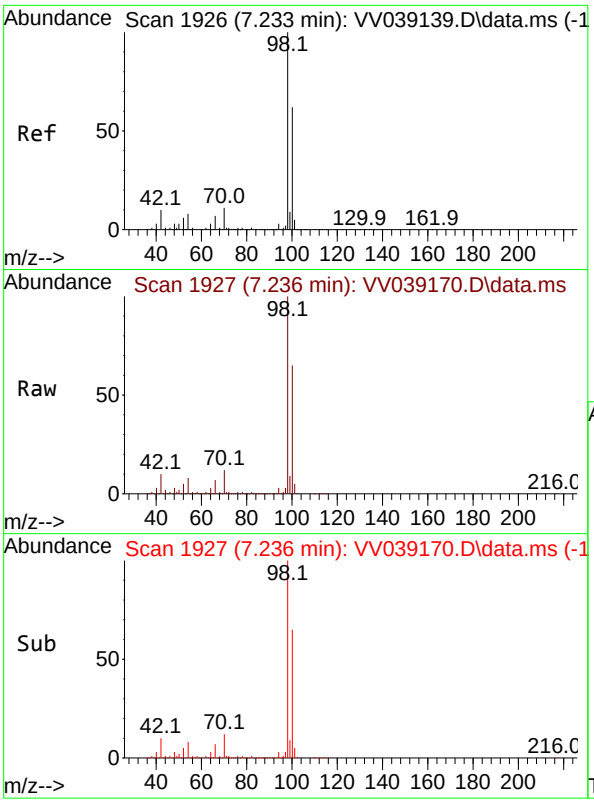




#35
Dibromofluoromethane
Concen: 53.273 ug/l
RT: 4.500 min Scan# 1076
Delta R.T. 0.003 min
Lab File: VV039170.D
Acq: 25 Sep 2025 11:01

Tgt Ion:113 Resp: 370419

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 104.0 | 82.4 | 123.6 |
| 192 | 17.8 | 13.8 | 20.8 |



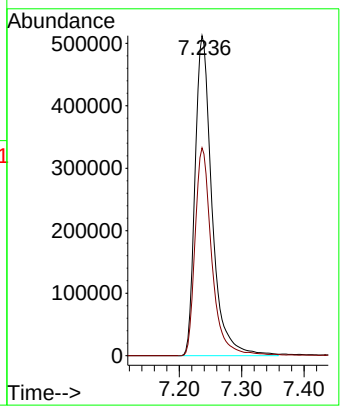


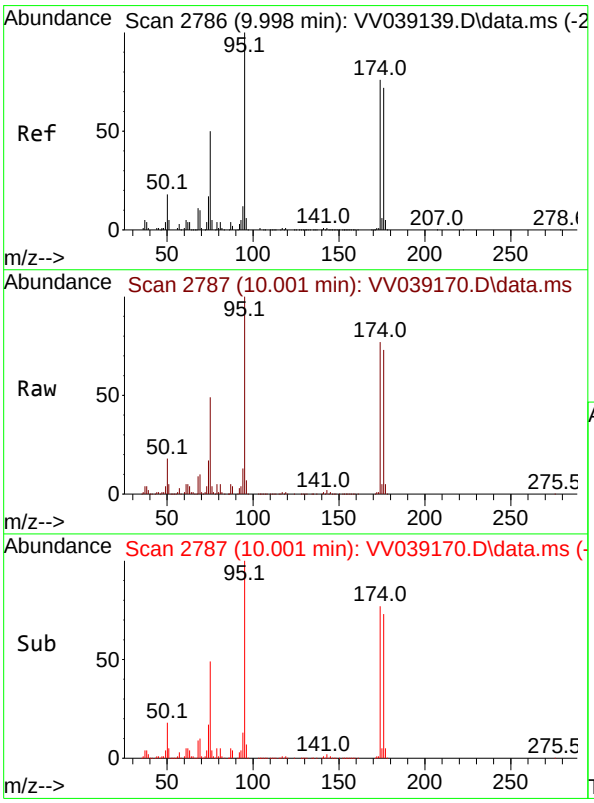

#50
Toluene-d8
Concen: 47.302 ug/l
RT: 7.236 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039170.D
Acq: 25 Sep 2025 11:01

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBL01

Tgt Ion: 98 Resp: 965988

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.0 | 52.2 | 78.2 |

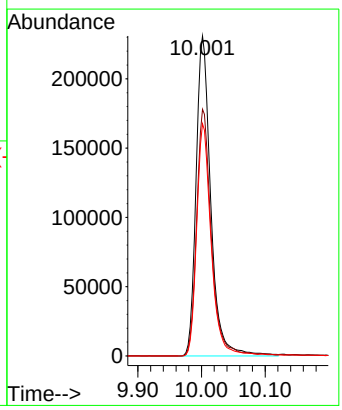


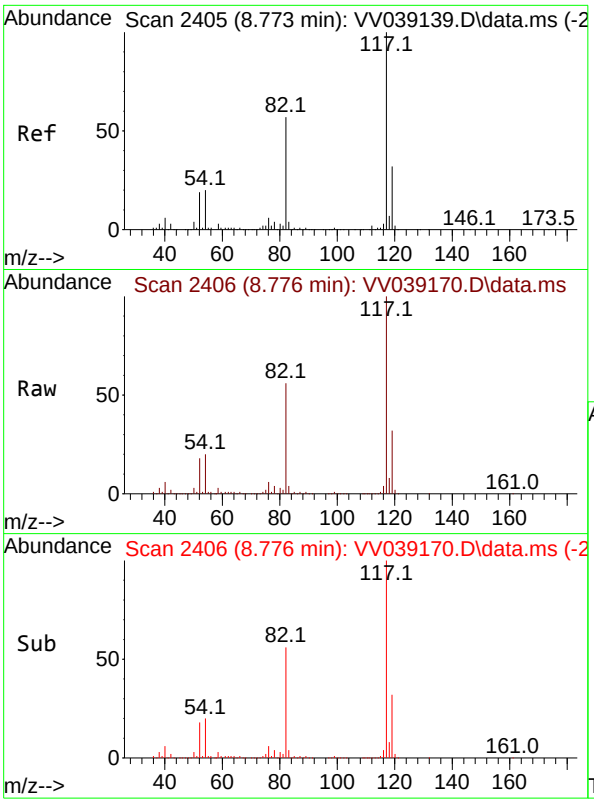




#62
4-Bromofluorobenzene
Concen: 44.133 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039170.D
Acq: 25 Sep 2025 11:01

Tgt Ion: 95 Resp: 371030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 77.2 | 0.0 | 150.4 |
| 176 | 71.4 | 0.0 | 144.2 |



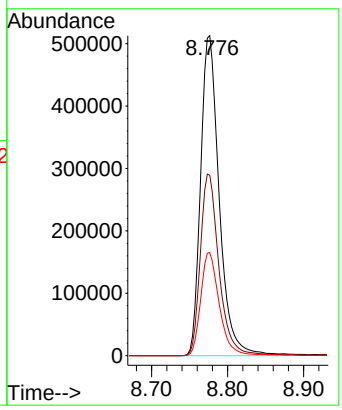


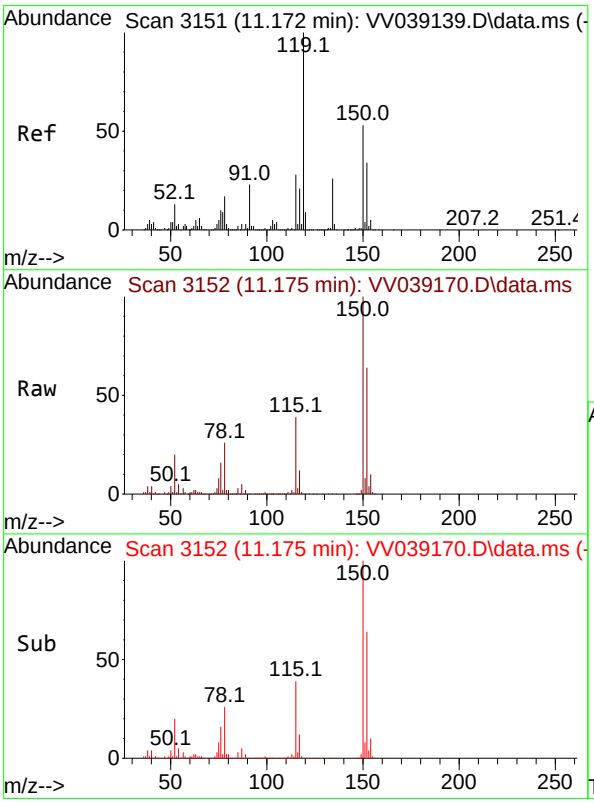

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039170.D
Acq: 25 Sep 2025 11:01

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBL01

Tgt Ion:117 Resp: 870930

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 56.4 | 45.4 | 68.2 |
| 119 | 32.3 | 25.6 | 38.4 |

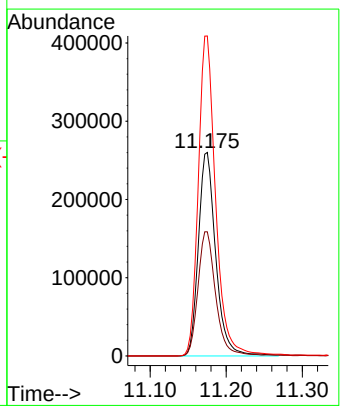



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039170.D
Acq: 25 Sep 2025 11:01

Tgt Ion:152 Resp: 413592

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 62.1 | 44.8 | 134.4 |
| 150 | 158.0 | 0.0 | 353.8 |



Sample Results: **VV039170.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039170.D
Acq On : 25 Sep 2025 11:01
Operator : SY/MD
Sample : VV0925WBL01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBL01

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039170.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.500 | 1060 | 1076 | 1095 | rBV | 443480 | 1175595 | 44.03% | 7.554% |
| 2 | 4.597 | 1095 | 1106 | 1148 | rVB | 568175 | 1566147 | 58.66% | 10.064% |
| 3 | 4.941 | 1200 | 1213 | 1243 | rBV | 475406 | 1163011 | 43.56% | 7.473% |
| 4 | 5.532 | 1383 | 1397 | 1436 | rBV | 887588 | 2082143 | 77.99% | 13.379% |
| 5 | 7.236 | 1916 | 1927 | 1970 | rBV | 1332205 | 2555376 | 95.72% | 16.420% |
| 6 | 8.773 | 2395 | 2405 | 2437 | rBV | 1535667 | 2669706 | 100.00% | 17.155% |
| 7 | 10.001 | 2776 | 2787 | 2816 | rBV | 1114083 | 1822624 | 68.27% | 11.712% |
| 8 | 11.172 | 3140 | 3151 | 3183 | rBV | 1569081 | 2527734 | 94.68% | 16.243% |

Sum of corrected areas: 15562336

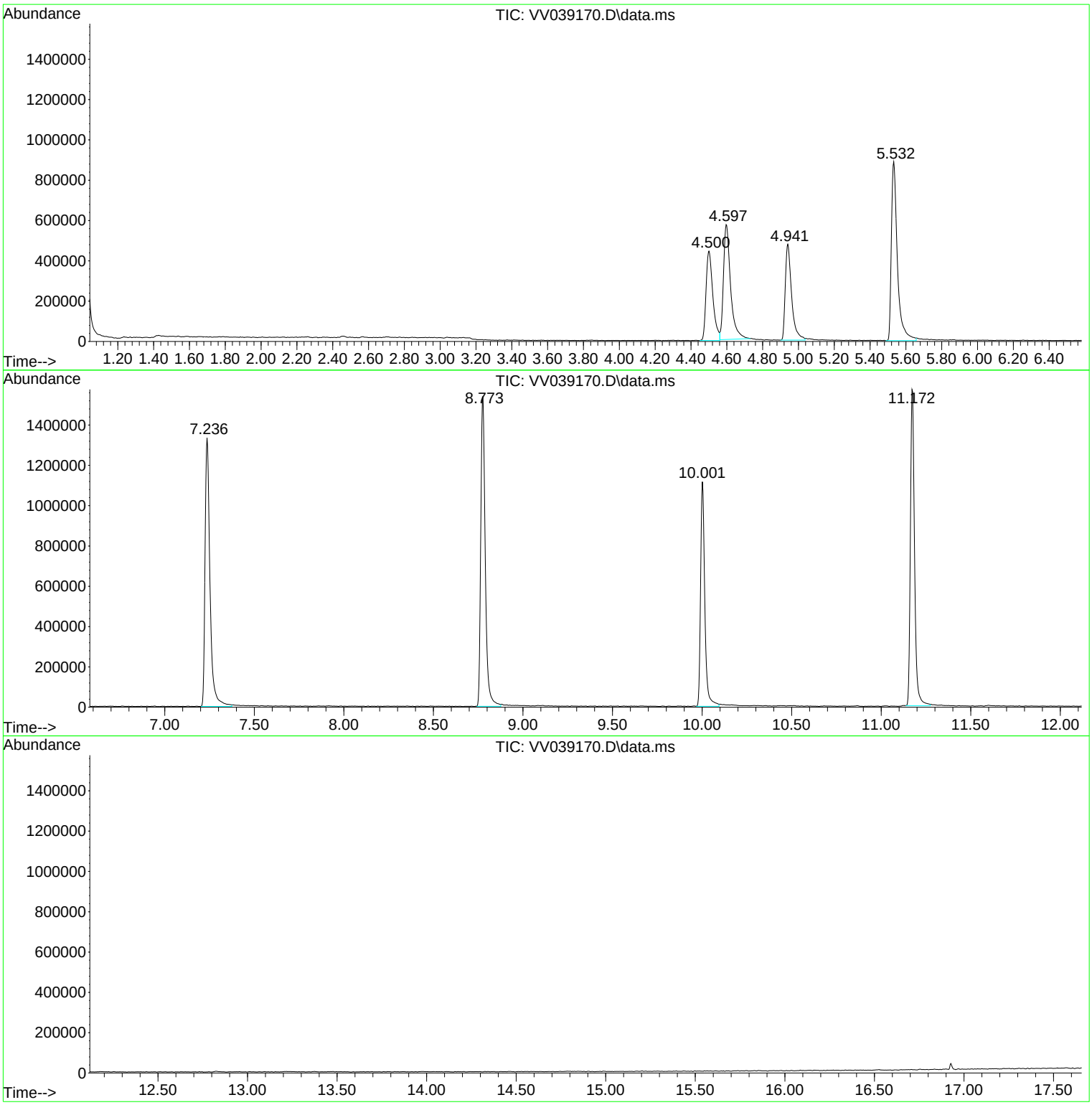
Sample Results: **VV039170.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039170.D
Acq On : 25 Sep 2025 11:01
Operator : SY/MD
Sample : VV0925WBL01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039170.D
Acq On : 25 Sep 2025 11:01
Operator : SY/MD
Sample : VV0925WBL01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039170.D
Acq On : 25 Sep 2025 11:01
Operator : SY/MD
Sample : VV0925WBL01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | |
| Project: | REAC Commodore | Date Received: | |
| Client Sample ID: | VV0926WBL01 | SDG No.: | Q3195 |
| Lab Sample ID: | VV0926WBL01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039200.D | 1 | 09/26/25 10:23 | VV092625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.33 | U | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.25 | U | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 1.50 | U | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 0.27 | U | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 1.50 | U | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.25 | U | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.16 | U | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.090 | U | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | U | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.14 | U | 0.14 | 1.00 | ug/L |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | |
| Project: | REAC Commodore | Date Received: | |
| Client Sample ID: | VV0926WBL01 | SDG No.: | Q3195 |
| Lab Sample ID: | VV0926WBL01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039200.D | 1 | 09/26/25 10:23 | VV092625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.15 | U | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | U | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | U | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.53 | U | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 56.4 | | 74 - 125 | 113% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 51.0 | | 75 - 124 | 102% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 46.3 | | 86 - 113 | 93% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 45.7 | | 77 - 121 | 91% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 489000 | 4.6 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 871000 | 5.535 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 871000 | 8.776 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 422000 | 11.175 | | | |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | |
| Project: | REAC Commodore | Date Received: | |
| Client Sample ID: | VV0926WBL01 | SDG No.: | Q3195 |
| Lab Sample ID: | VV0926WBL01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039200.D | 1 | 09/26/25 10:23 | VV092625 |

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039200.D
Acq On : 26 Sep 2025 10:23
Operator : SY/MD
Sample : VV0926WBL01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBL01

Quant Time: Sep 27 02:50:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.600 | 168 | 488972 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.535 | 114 | 870889 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.776 | 117 | 870759 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.175 | 152 | 422120 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.944 | 65 | 399373 | 56.433 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 112.860% | | | |
| 35) Dibromofluoromethane | 4.503 | 113 | 357344 | 51.040 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 102.080% | | | |
| 50) Toluene-d8 | 7.236 | 98 | 952055 | 46.300 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 92.600% | | | |
| 62) 4-Bromofluorobenzene | 10.001 | 95 | 387045 | 45.722 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 91.440% | | | |

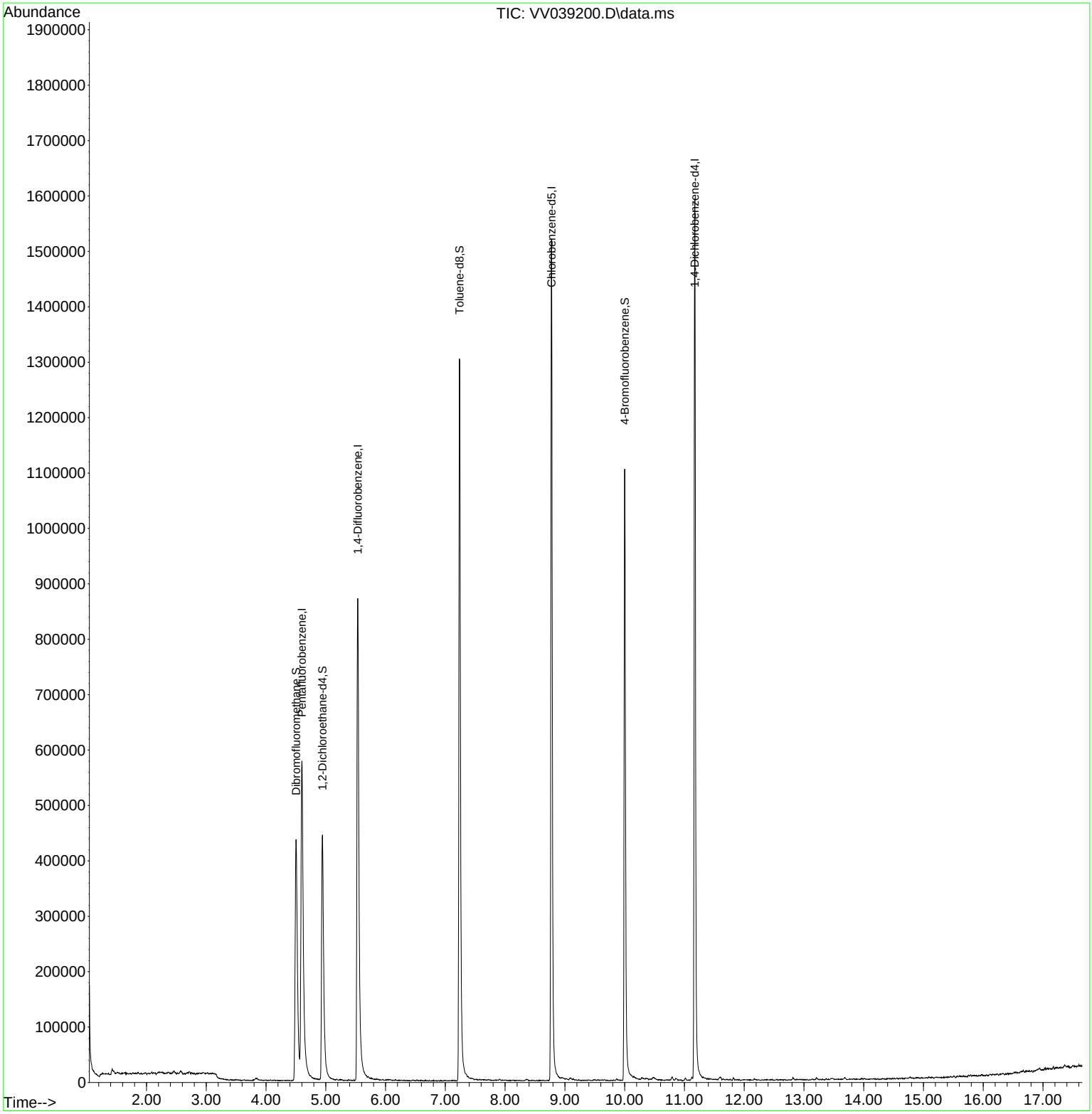
Target Compounds Qvalue

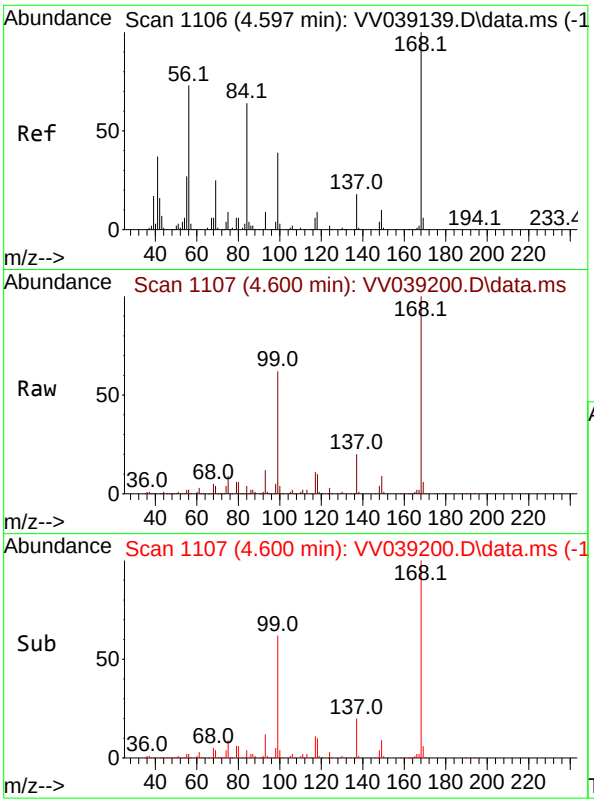
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039200.D
Acq On : 26 Sep 2025 10:23
Operator : SY/MD
Sample : VV0926WBL01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBL01

Quant Time: Sep 27 02:50:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



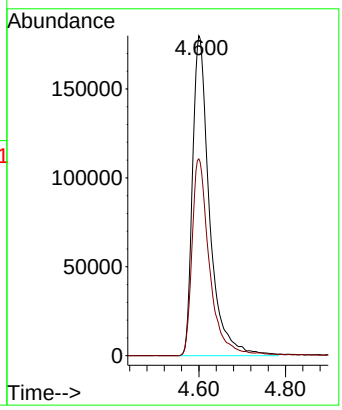


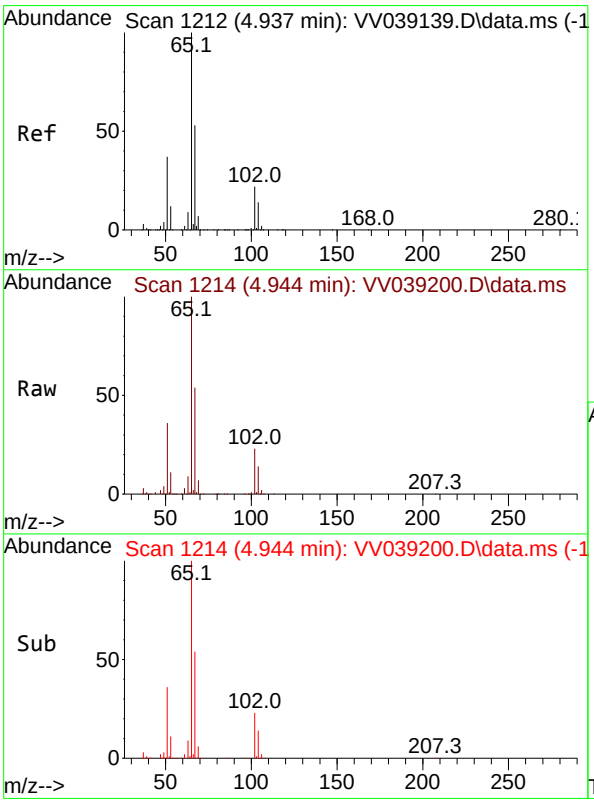

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039200.D
Acq: 26 Sep 2025 10:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBL01

Tgt Ion:168 Resp: 488972

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 61.5 | 49.6 | 74.4 |

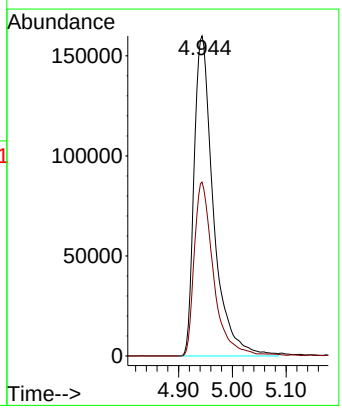


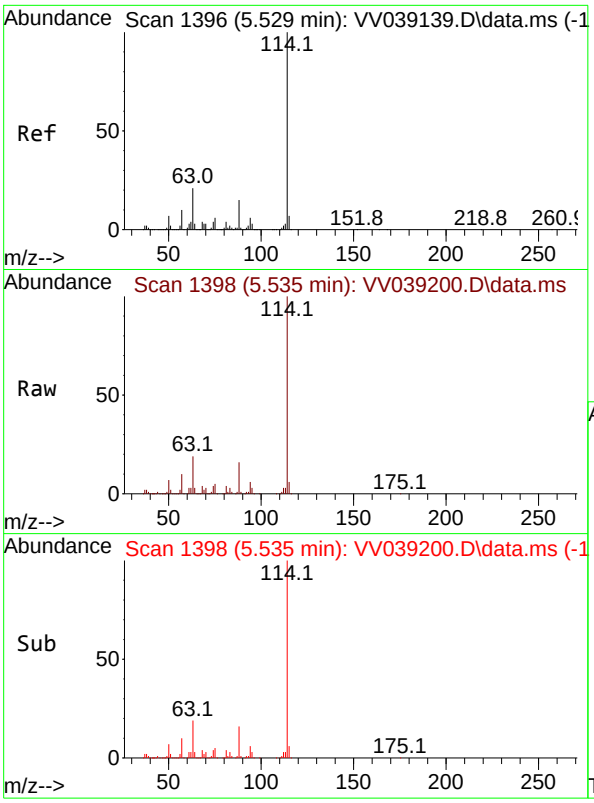




#33
1,2-Dichloroethane-d4
Concen: 56.433 ug/l
RT: 4.944 min Scan# 1214
Delta R.T. 0.006 min
Lab File: VV039200.D
Acq: 26 Sep 2025 10:23

Tgt Ion: 65 Resp: 399373

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.9 | 0.0 | 107.0 |



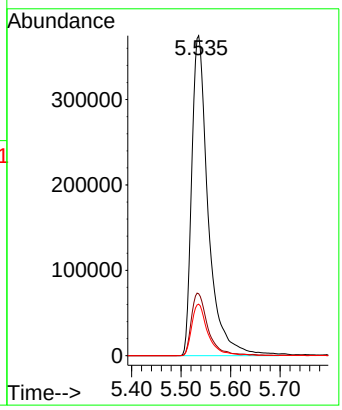


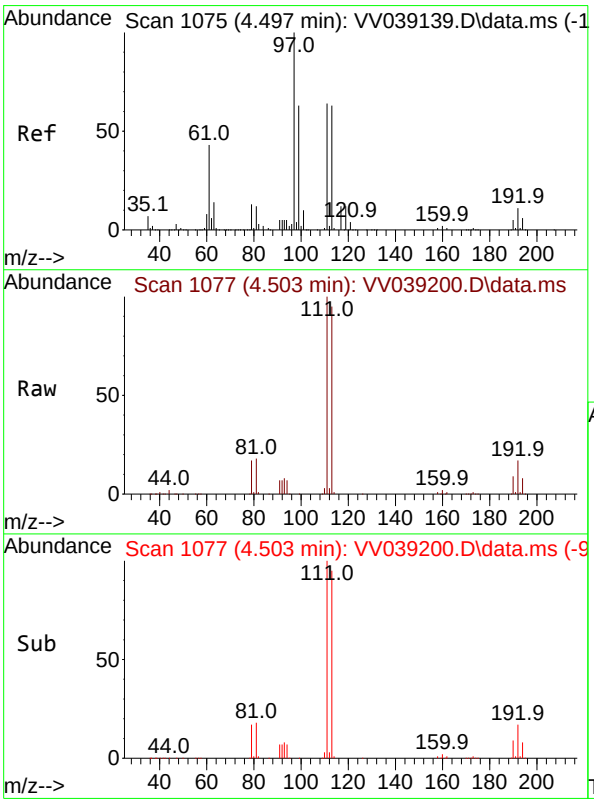

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039200.D
Acq: 26 Sep 2025 10:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBL01

Tgt Ion:114 Resp: 870889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.3 | 0.0 | 42.6 |
| 88 | 16.1 | 0.0 | 30.8 |

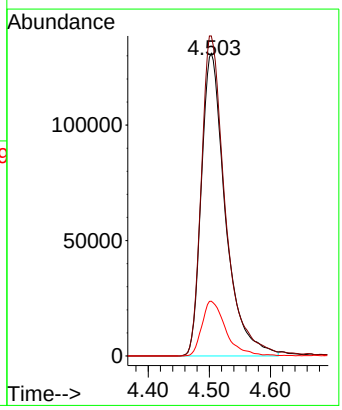


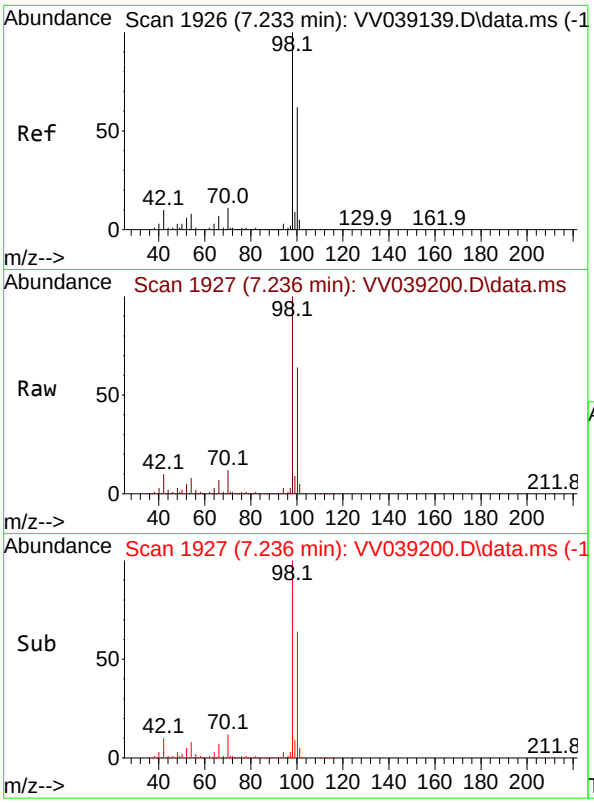




#35
Dibromofluoromethane
Concen: 51.040 ug/l
RT: 4.503 min Scan# 1077
Delta R.T. 0.006 min
Lab File: VV039200.D
Acq: 26 Sep 2025 10:23

Tgt Ion:113 Resp: 357344

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 105.6 | 82.4 | 123.6 |
| 192 | 17.9 | 13.8 | 20.8 |



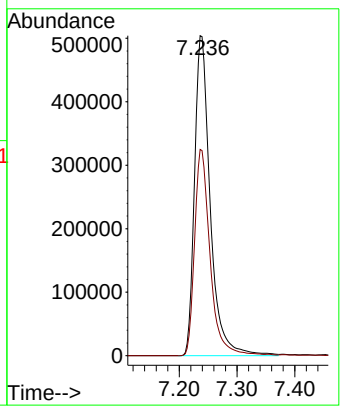


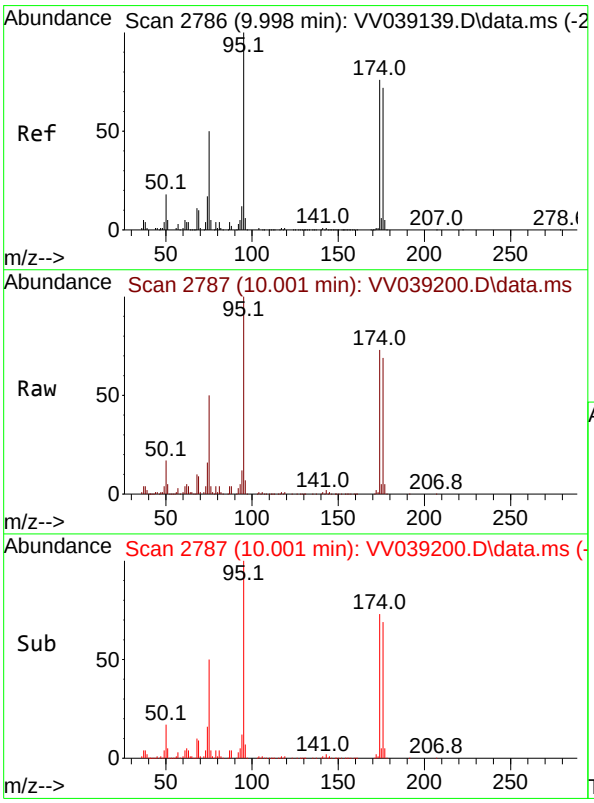

#50
Toluene-d8
Concen: 46.300 ug/l
RT: 7.236 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039200.D
Acq: 26 Sep 2025 10:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBL01

Tgt Ion: 98 Resp: 952055

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.7 | 52.2 | 78.2 |

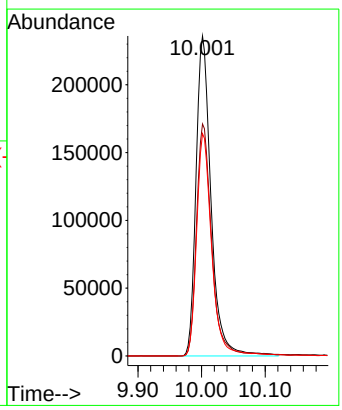


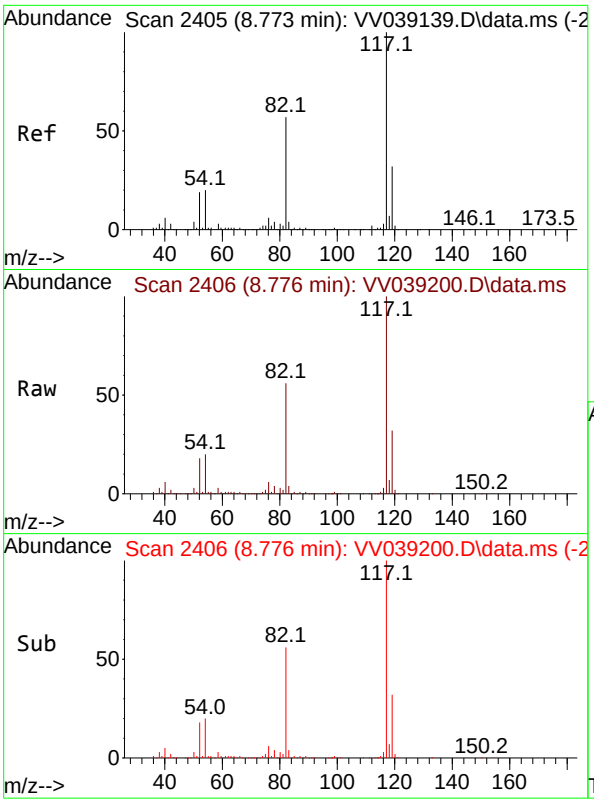




#62
4-Bromofluorobenzene
Concen: 45.722 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039200.D
Acq: 26 Sep 2025 10:23

Tgt Ion: 95 Resp: 387045

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 72.4 | 0.0 | 150.4 |
| 176 | 69.0 | 0.0 | 144.2 |



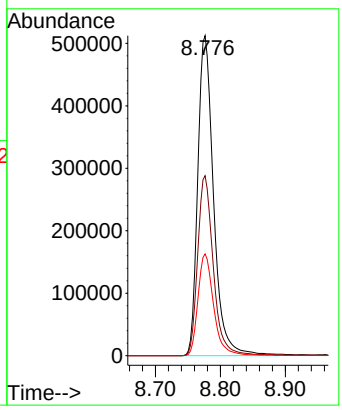


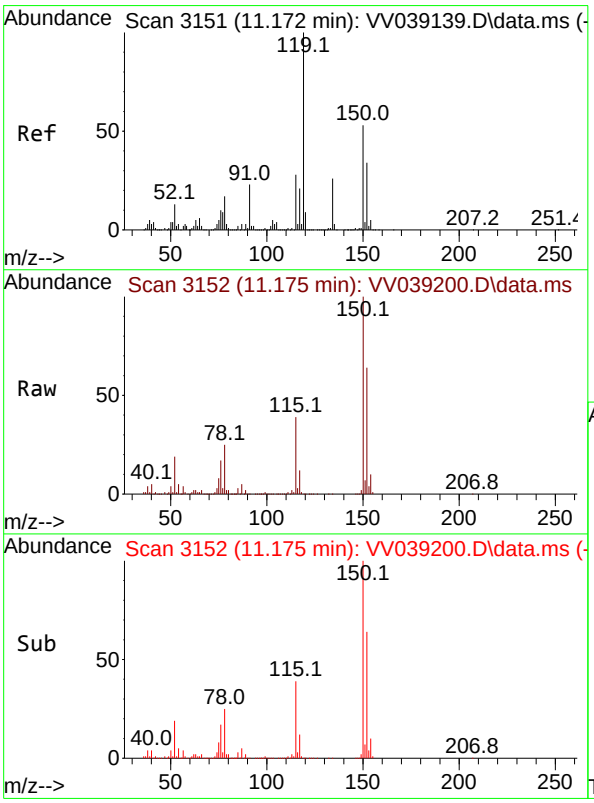

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039200.D
Acq: 26 Sep 2025 10:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBL01

Tgt Ion:117 Resp: 870759

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 56.2 | 45.4 | 68.2 |
| 119 | 31.8 | 25.6 | 38.4 |

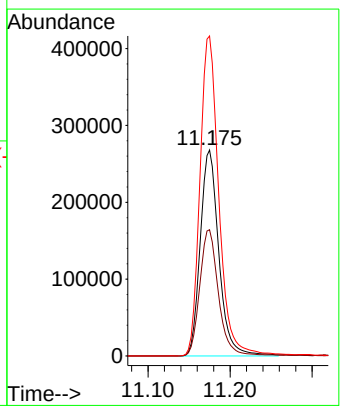



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039200.D
Acq: 26 Sep 2025 10:23

Tgt Ion:152 Resp: 422120

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 61.9 | 44.8 | 134.4 |
| 150 | 158.3 | 0.0 | 353.8 |



Sample Results: **VV039200.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039200.D
Acq On : 26 Sep 2025 10:23
Operator : SY/MD
Sample : VV0926WBL01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBL01

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039200.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.503 | 1063 | 1077 | 1095 | rBV | 434773 | 1131685 | 43.35% | 7.389% |
| 2 | 4.600 | 1096 | 1107 | 1151 | rVB | 571098 | 1565650 | 59.97% | 10.222% |
| 3 | 4.944 | 1202 | 1214 | 1254 | rBV2 | 440916 | 1100042 | 42.13% | 7.182% |
| 4 | 5.535 | 1381 | 1398 | 1430 | rBV | 870943 | 2033686 | 77.90% | 13.278% |
| 5 | 7.236 | 1913 | 1927 | 1968 | rBV | 1303748 | 2493630 | 95.51% | 16.281% |
| 6 | 8.776 | 2392 | 2406 | 2441 | rBV | 1518920 | 2610787 | 100.00% | 17.046% |
| 7 | 10.001 | 2776 | 2787 | 2814 | rBV | 1103168 | 1820878 | 69.74% | 11.888% |
| 8 | 11.175 | 3141 | 3152 | 3188 | rBV | 1587867 | 2560016 | 98.06% | 16.714% |

Sum of corrected areas: 15316374

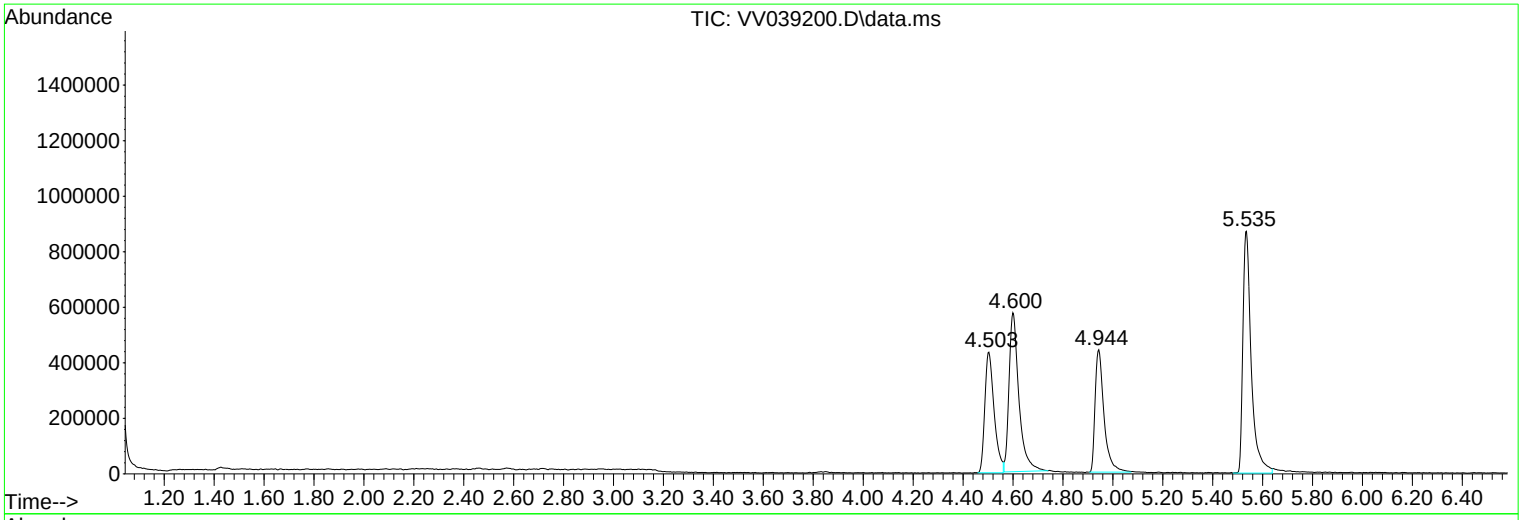
Sample Results: **VV039200.D**

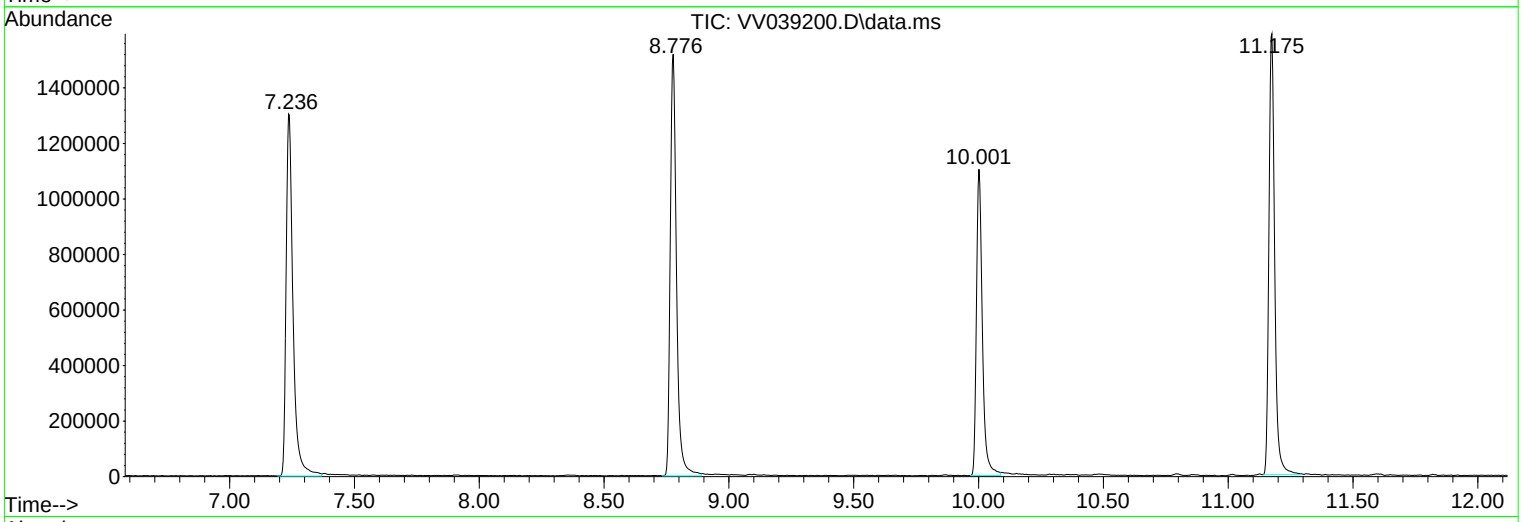
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039200.D
Acq On : 26 Sep 2025 10:23
Operator : SY/MD
Sample : VV0926WBL01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

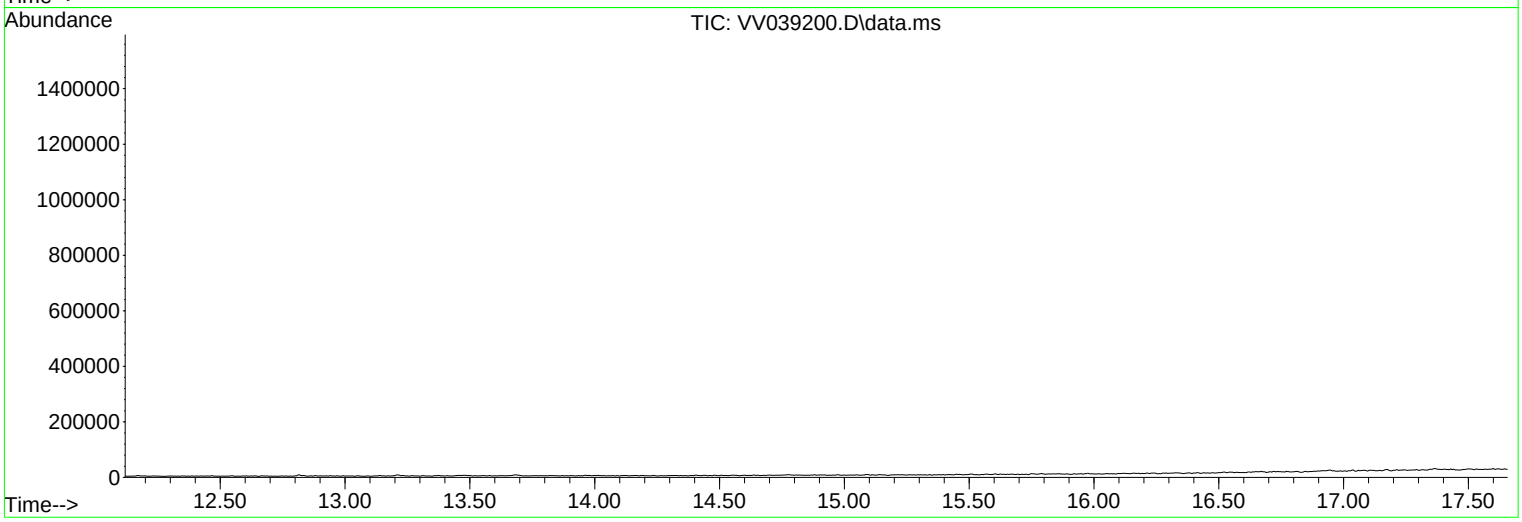
**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039200.D
Acq On : 26 Sep 2025 10:23
Operator : SY/MD
Sample : VV0926WBL01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039200.D
Acq On : 26 Sep 2025 10:23
Operator : SY/MD
Sample : VV0926WBL01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | |
| Project: | REAC Commodore | Date Received: | |
| Client Sample ID: | VV0929WBL01 | SDG No.: | Q3195 |
| Lab Sample ID: | VV0929WBL01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039223.D | 1 | 09/29/25 12:00 | VV092925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 0.32 | U | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.26 | U | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 1.40 | U | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.47 | U | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.33 | U | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.25 | U | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 1.50 | U | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.21 | U | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 0.27 | U | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.28 | U | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.23 | U | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 1.50 | U | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 0.98 | U | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.25 | U | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.25 | U | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.16 | U | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.090 | U | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.20 | U | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.22 | U | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 0.68 | U | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.14 | U | 0.14 | 1.00 | ug/L |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | |
| Project: | REAC Commodore | Date Received: | |
| Client Sample ID: | VV0929WBL01 | SDG No.: | Q3195 |
| Lab Sample ID: | VV0929WBL01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039223.D | 1 | 09/29/25 12:00 | VV092925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 0.17 | U | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.21 | U | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 0.89 | U | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 0.18 | U | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 0.15 | U | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.23 | U | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.13 | U | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 0.24 | U | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.15 | U | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.19 | U | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.12 | U | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.26 | U | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.19 | U | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.16 | U | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 0.53 | U | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 0.20 | U | 0.20 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 54.8 | | 74 - 125 | 110% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 54.5 | | 75 - 124 | 109% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 45.7 | | 86 - 113 | 91% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 45.6 | | 77 - 121 | 91% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 464000 | 4.6 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 798000 | 5.535 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 810000 | 8.777 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 404000 | 11.175 | | | |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | |
| Project: | REAC Commodore | Date Received: | |
| Client Sample ID: | VV0929WBL01 | SDG No.: | Q3195 |
| Lab Sample ID: | VV0929WBL01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039223.D | 1 | 09/29/25 12:00 | VV092925 |

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039223.D
Acq On : 29 Sep 2025 12:00
Operator : SY/MD
Sample : VV0929WBL01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBL01

Quant Time: Sep 30 01:22:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.600 | 168 | 463653 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.535 | 114 | 797576 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.777 | 117 | 809645 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.175 | 152 | 403956 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.944 | 65 | 367686 | 54.793 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 109.580% | | | |
| 35) Dibromofluoromethane | 4.503 | 113 | 349442 | 54.499 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 109.000% | | | |
| 50) Toluene-d8 | 7.240 | 98 | 860432 | 45.691 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 91.380% | | | |
| 62) 4-Bromofluorobenzene | 10.002 | 95 | 353180 | 45.557 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 91.120% | | | |

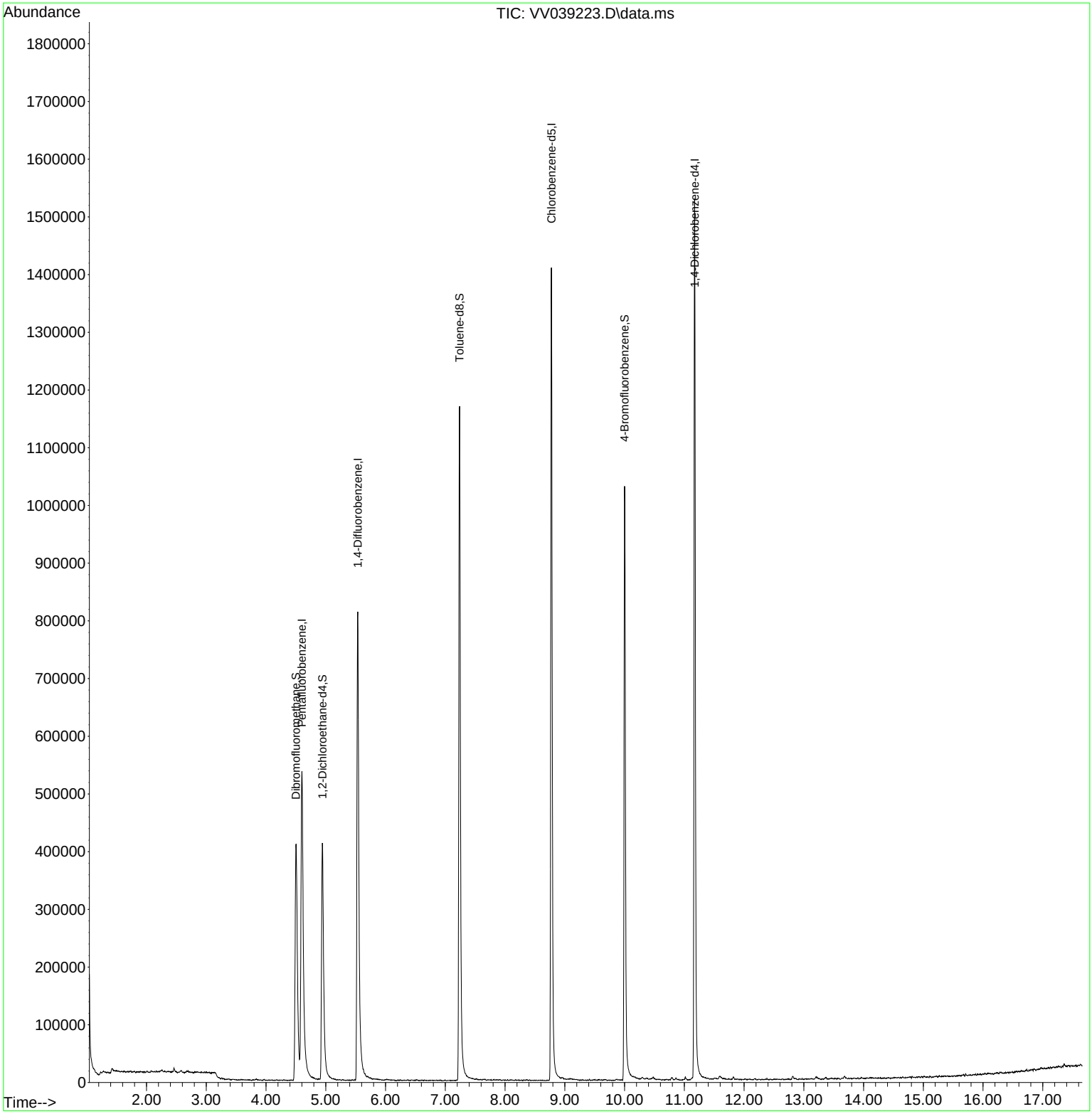
Target Compounds Qvalue

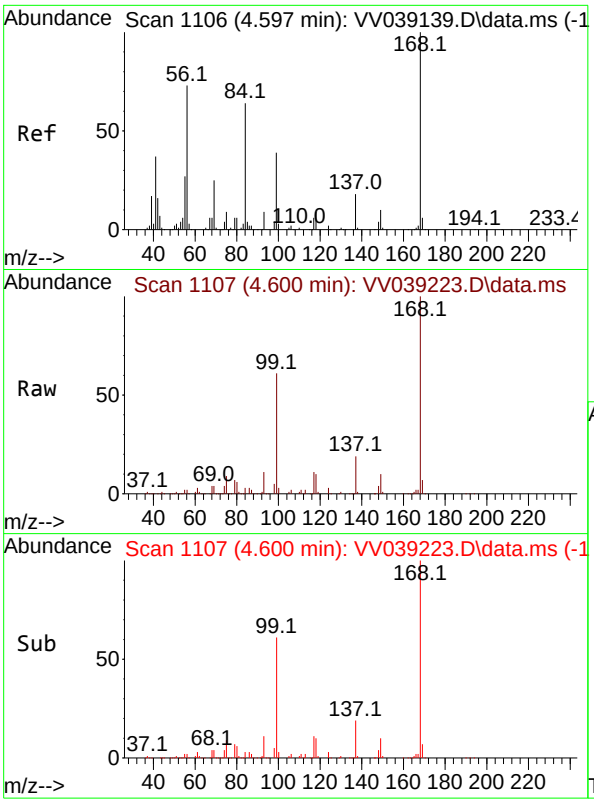
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039223.D
Acq On : 29 Sep 2025 12:00
Operator : SY/MD
Sample : VV0929WBL01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBL01

Quant Time: Sep 30 01:22:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



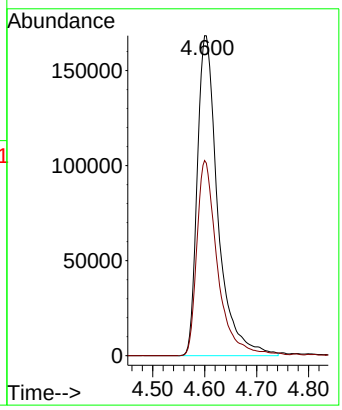


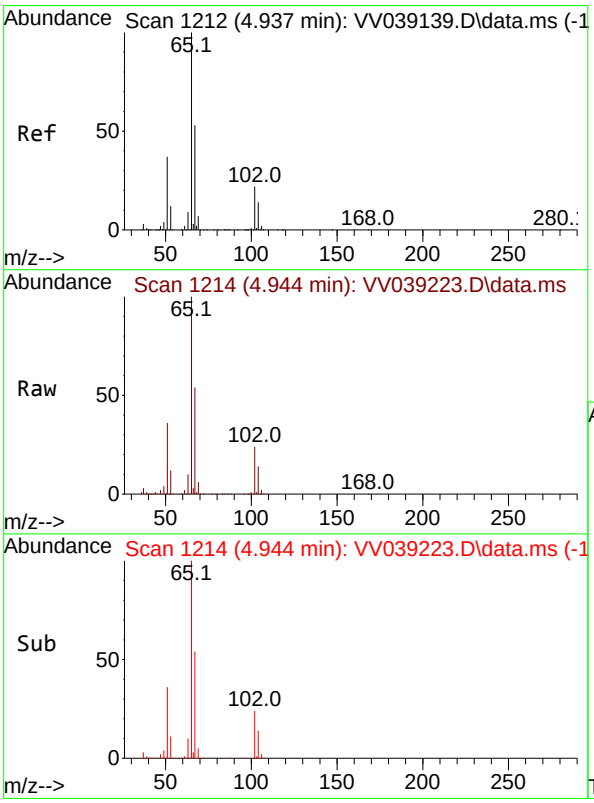

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039223.D
Acq: 29 Sep 2025 12:00

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBL01

Tgt Ion:168 Resp: 463653

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 61.0 | 49.6 | 74.4 |

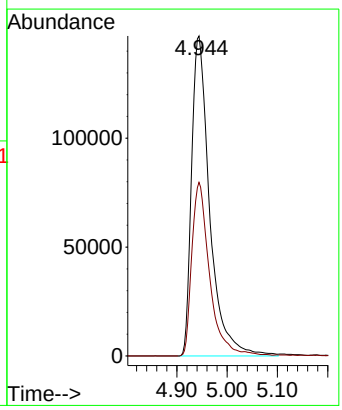


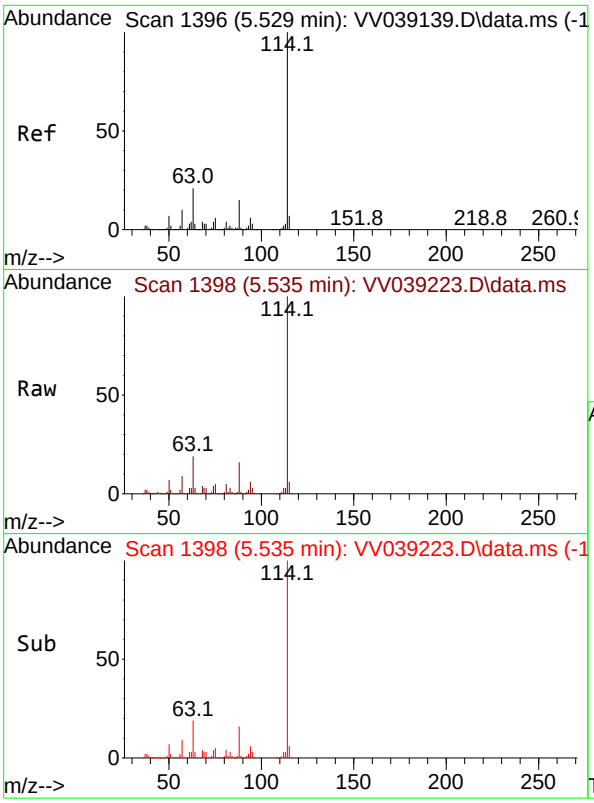




#33
1,2-Dichloroethane-d4
Concen: 54.793 ug/l
RT: 4.944 min Scan# 1214
Delta R.T. 0.007 min
Lab File: VV039223.D
Acq: 29 Sep 2025 12:00

Tgt Ion: 65 Resp: 367686

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.2 | 0.0 | 107.0 |



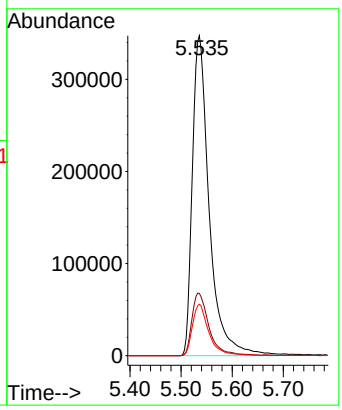


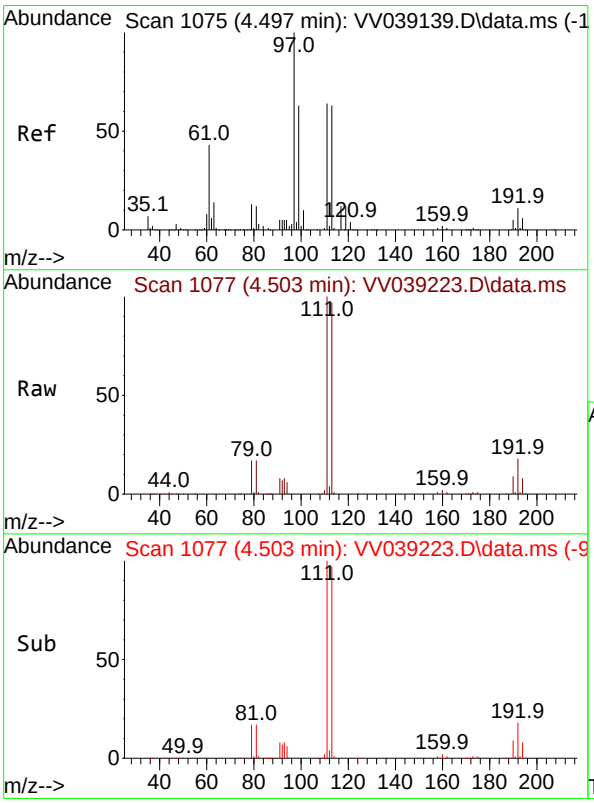

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039223.D
Acq: 29 Sep 2025 12:00

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBL01

Tgt Ion:114 Resp: 797576

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.4 | 0.0 | 42.6 |
| 88 | 16.1 | 0.0 | 30.8 |

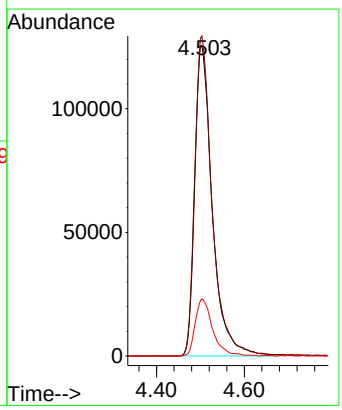


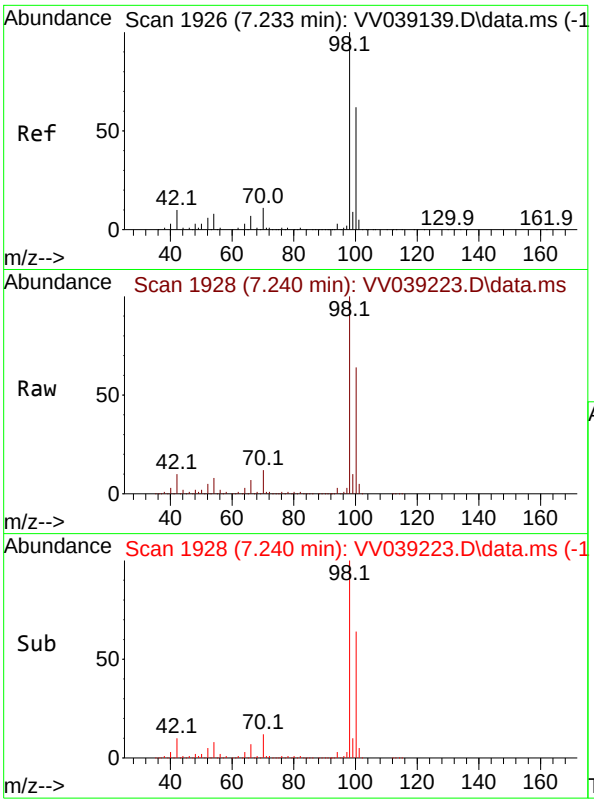




#35
Dibromofluoromethane
Concen: 54.499 ug/l
RT: 4.503 min Scan# 1077
Delta R.T. 0.007 min
Lab File: VV039223.D
Acq: 29 Sep 2025 12:00

Tgt Ion:113 Resp: 349442

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.9 | 82.4 | 123.6 |
| 192 | 18.1 | 13.8 | 20.8 |



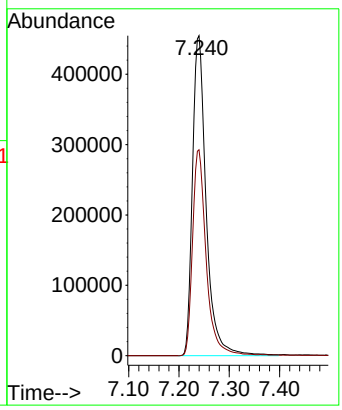


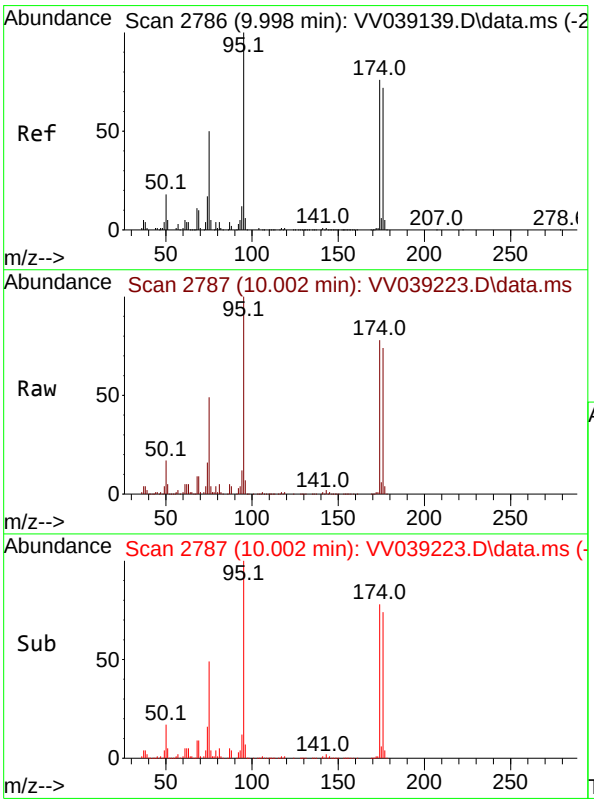

#50
Toluene-d8
Concen: 45.691 ug/l
RT: 7.240 min Scan# 1
Delta R.T. 0.007 min
Lab File: VV039223.D
Acq: 29 Sep 2025 12:00

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBL01

Tgt Ion: 98 Resp: 860432

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.9 | 52.2 | 78.2 |

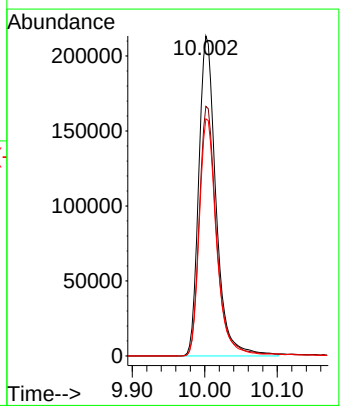


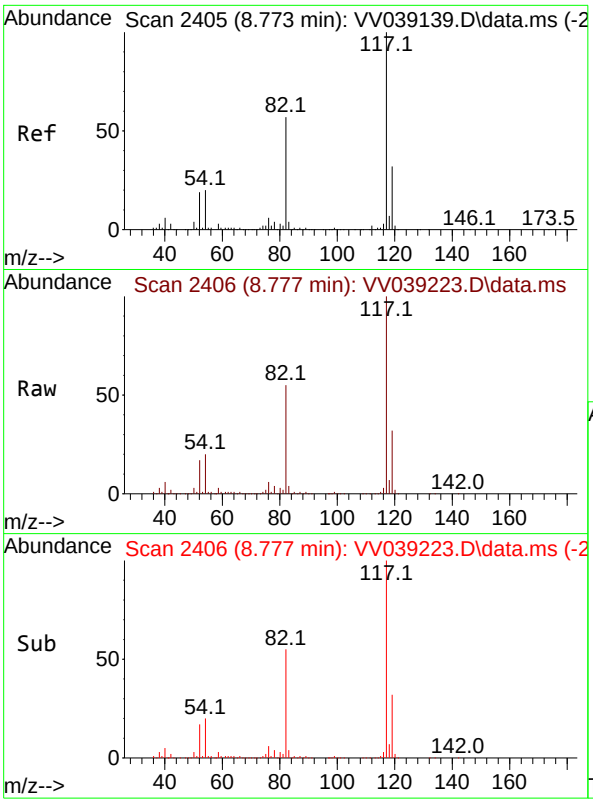




#62
4-Bromofluorobenzene
Concen: 45.557 ug/l
RT: 10.002 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039223.D
Acq: 29 Sep 2025 12:00

Tgt Ion: 95 Resp: 353180

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 77.7 | 0.0 | 150.4 |
| 176 | 73.8 | 0.0 | 144.2 |



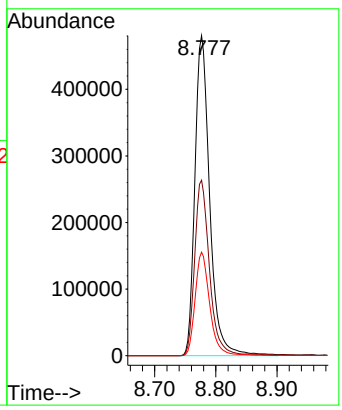


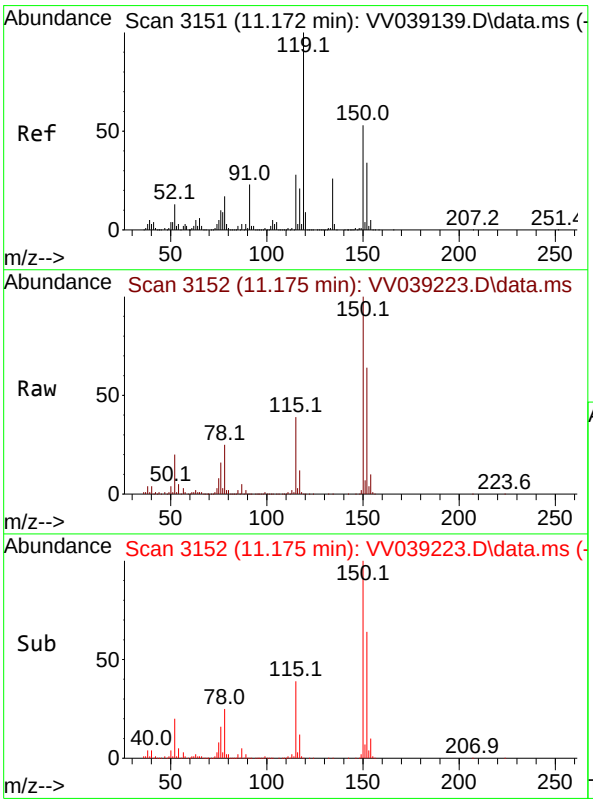

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.777 min Scan# 24
Delta R.T. 0.004 min
Lab File: VV039223.D
Acq: 29 Sep 2025 12:00

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBL01

Tgt Ion:117 Resp: 809645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.8 | 45.4 | 68.2 |
| 119 | 32.4 | 25.6 | 38.4 |

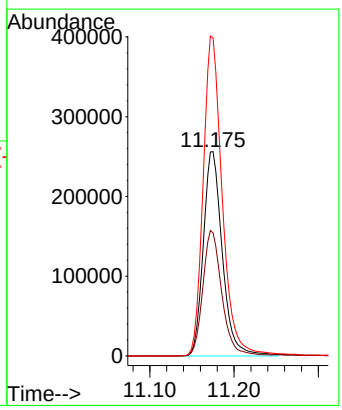



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039223.D
Acq: 29 Sep 2025 12:00

Tgt Ion:152 Resp: 403956

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 61.1 | 44.8 | 134.4 |
| 150 | 157.7 | 0.0 | 353.8 |



Sample Results: **VV039223.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039223.D
Acq On : 29 Sep 2025 12:00
Operator : SY/MD
Sample : VV0929WBL01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBL01

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

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

Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Title : SW846 8260

Signal : TIC: VV039223.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.503 | 1062 | 1077 | 1095 | rBV2 | 409817 | 1085611 | 44.60% | 7.620% |
| 2 | 4.600 | 1096 | 1107 | 1150 | rVB | 529571 | 1466476 | 60.25% | 10.294% |
| 3 | 4.944 | 1202 | 1214 | 1248 | rBV | 409293 | 1014819 | 41.69% | 7.123% |
| 4 | 5.535 | 1386 | 1398 | 1426 | rBV | 812016 | 1857654 | 76.32% | 13.040% |
| 5 | 7.240 | 1916 | 1928 | 1963 | rBV | 1168368 | 2240542 | 92.05% | 15.727% |
| 6 | 8.777 | 2392 | 2406 | 2450 | rBV | 1408642 | 2418979 | 99.39% | 16.980% |
| 7 | 10.002 | 2776 | 2787 | 2817 | rBV | 1029718 | 1728299 | 71.01% | 12.132% |
| 8 | 11.172 | 3140 | 3151 | 3193 | rBV | 1523519 | 2433928 | 100.00% | 17.085% |

Sum of corrected areas: 14246308

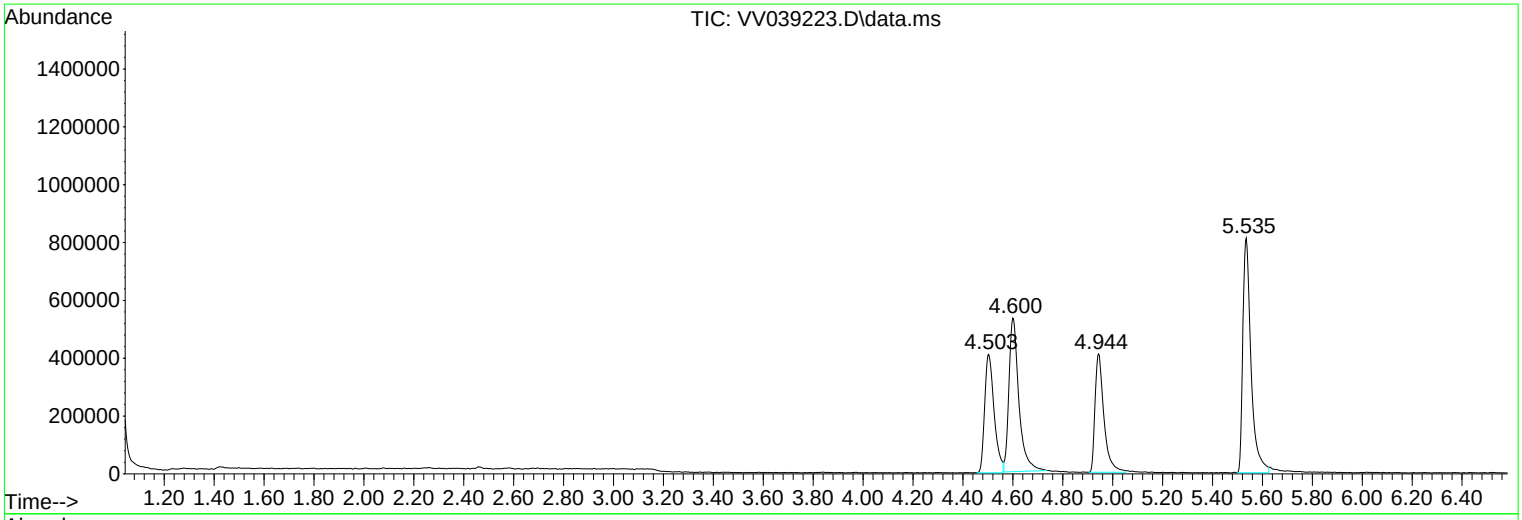
Sample Results: **VV039223.D**

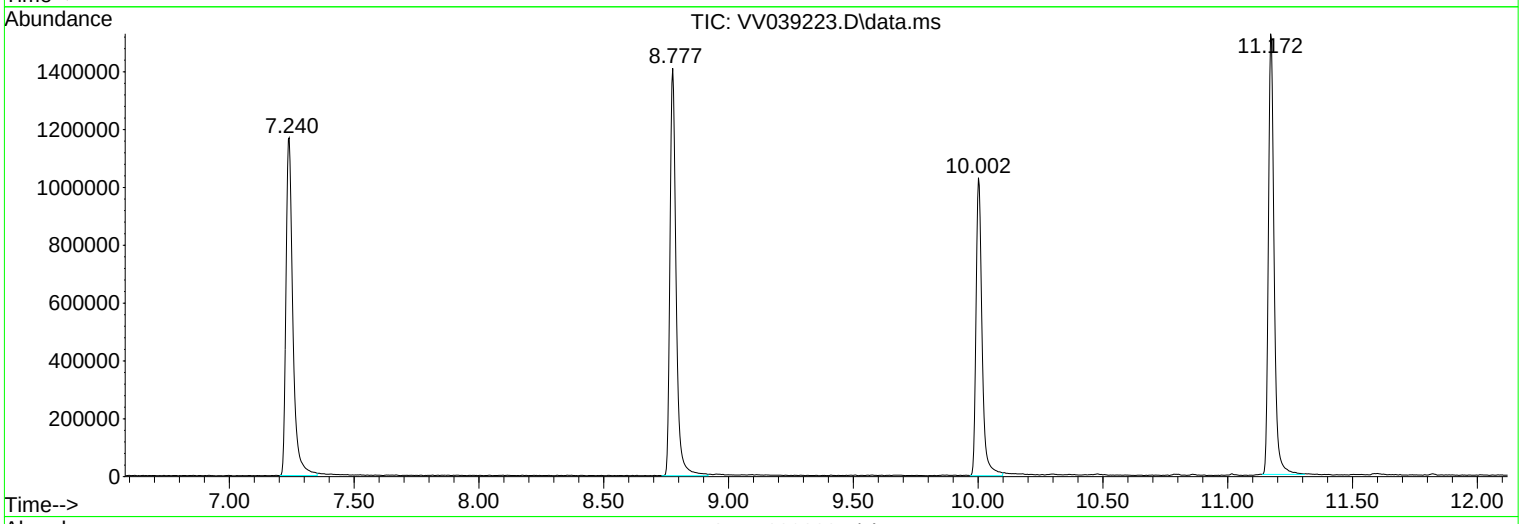
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039223.D
Acq On : 29 Sep 2025 12:00
Operator : SY/MD
Sample : VV0929WBL01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

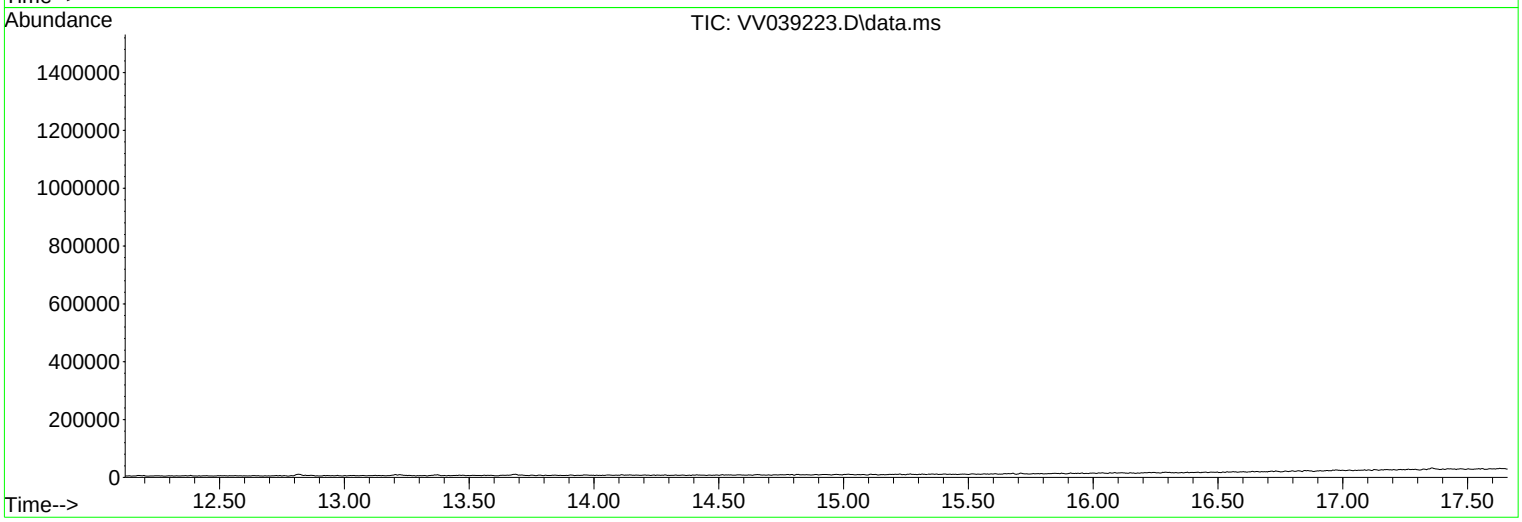
**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039223.D
Acq On : 29 Sep 2025 12:00
Operator : SY/MD
Sample : VV0929WBL01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039223.D
Acq On : 29 Sep 2025 12:00
Operator : SY/MD
Sample : VV0929WBL01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260

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

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

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | |
| Project: | REAC Commodore | Date Received: | |
| Client Sample ID: | VV0925WBS01 | SDG No.: | Q3195 |
| Lab Sample ID: | VV0925WBS01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039171.D | 1 | 09/25/25 11:24 | VV092525 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 18.2 | | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 19.1 | | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 19.4 | | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 18.7 | | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 19.3 | | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 19.4 | | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 20.0 | | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 19.9 | | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 89.0 | | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 19.0 | | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 20.0 | | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 21.2 | | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 20.6 | | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 19.7 | | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 19.3 | | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 18.2 | | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 97.1 | | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 19.4 | | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 19.5 | | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 20.5 | | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 19.2 | | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 19.0 | | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 19.2 | | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 19.9 | | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 19.6 | | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 20.4 | | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 20.5 | | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 19.3 | | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 110 | | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 21.5 | | 0.14 | 1.00 | ug/L |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | |
| Project: | REAC Commodore | Date Received: | |
| Client Sample ID: | VV0925WBS01 | SDG No.: | Q3195 |
| Lab Sample ID: | VV0925WBS01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039171.D | 1 | 09/25/25 11:24 | VV092525 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 20.1 | | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 20.2 | | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 20.0 | | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 99.6 | | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 20.2 | | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 20.6 | | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 20.2 | | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 20.1 | | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 20.0 | | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 43.1 | | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 21.0 | | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 19.3 | | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 20.5 | | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 20.6 | | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 19.4 | | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 19.6 | | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 18.9 | | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 19.8 | | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 22.1 | | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 19.2 | | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 19.9 | | 0.20 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 45.1 | | 74 - 125 | 90% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 47.8 | | 75 - 124 | 96% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 47.9 | | 86 - 113 | 96% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 51.2 | | 77 - 121 | 102% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 557000 | 4.6 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 899000 | 5.535 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 872000 | 8.776 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 509000 | 11.172 | | | |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | |
| Project: | REAC Commodore | Date Received: | |
| Client Sample ID: | VV0925WBS01 | SDG No.: | Q3195 |
| Lab Sample ID: | VV0925WBS01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039171.D | 1 | 09/25/25 11:24 | VV092525 |

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039171.D
Acq On : 25 Sep 2025 11:24
Operator : SY/MD
Sample : VV0925WBS01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Quant Time: Sep 26 01:21:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.600 | 168 | 557017 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.535 | 114 | 898902 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.776 | 117 | 871912 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.172 | 152 | 508947 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.944 | 65 | 363796 | 45.127 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 90.260% | | | |
| 35) Dibromofluoromethane | 4.500 | 113 | 345732 | 47.843 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 95.680% | | | |
| 50) Toluene-d8 | 7.236 | 98 | 1017460 | 47.939 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 95.880% | | | |
| 62) 4-Bromofluorobenzene | 10.001 | 95 | 447073 | 51.168 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 102.340% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.121 | 85 | 160404 | 18.191 | ug/l | 99 |
| 3) Chloromethane | 1.230 | 50 | 180629 | 19.082 | ug/l | 99 |
| 4) Vinyl Chloride | 1.298 | 62 | 196152 | 19.356 | ug/l | 99 |
| 5) Bromomethane | 1.497 | 94 | 119487 | 18.704 | ug/l | 98 |
| 6) Chloroethane | 1.561 | 64 | 122694 | 19.279 | ug/l | 97 |
| 7) Trichlorofluoromethane | 1.725 | 101 | 284580 | 19.396 | ug/l | 98 |
| 8) Diethyl Ether | 1.918 | 74 | 106026 | 19.466 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 2.082 | 101 | 174658 | 20.007 | ug/l | 97 |
| 10) Methyl Iodide | 2.198 | 142 | 135972 | 16.356 | ug/l | 99 |
| 11) Tert butyl alcohol | 2.571 | 59 | 187721 | 110.174 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 2.082 | 96 | 166976 | 19.882 | ug/l | 98 |
| 13) Acrolein | 2.011 | 56 | 34025 | 115.083 | ug/l | 98 |
| 14) Allyl chloride | 2.359 | 41 | 286242 | 19.080 | ug/l | 98 |
| 15) Acrylonitrile | 2.677 | 53 | 538540 | 98.597 | ug/l | 100 |
| 16) Acetone | 2.121 | 43 | 476447 | 89.017 | ug/l | 97 |
| 17) Carbon Disulfide | 2.253 | 76 | 487416 | 18.977 | ug/l | 99 |
| 18) Methyl Acetate | 2.381 | 43 | 252836 | 21.167 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 2.716 | 73 | 535106 | 19.995 | ug/l | 99 |
| 20) Methylene Chloride | 2.458 | 84 | 192332 | 20.555 | ug/l | 95 |
| 21) trans-1,2-Dichloroethene | 2.703 | 96 | 176159 | 19.703 | ug/l | 96 |
| 22) Diisopropyl ether | 3.220 | 45 | 549959 | 19.161 | ug/l | 99 |
| 23) Vinyl Acetate | 3.191 | 43 | 2415006 | 96.182 | ug/l | 98 |
| 24) 1,1-Dichloroethane | 3.117 | 63 | 339160 | 19.322 | ug/l | 98 |
| 25) 2-Butanone | 3.873 | 43 | 626977 | 97.122 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 3.812 | 77 | 266277 | 17.109 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 3.822 | 96 | 191963 | 19.468 | ug/l | 98 |
| 28) Bromochloromethane | 4.150 | 49 | 158654 | 20.475 | ug/l | 97 |
| 29) Tetrahydrofuran | 4.240 | 42 | 407358 | 100.814 | ug/l | 98 |
| 30) Chloroform | 4.281 | 83 | 352541 | 19.234 | ug/l | 97 |
| 31) Cyclohexane | 4.587 | 56 | 262018 | 18.223 | ug/l | 94 |
| 32) 1,1,1-Trichloroethane | 4.513 | 97 | 301922 | 19.027 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 4.744 | 75 | 210259 | 19.244 | ug/l | 98 |
| 37) Ethyl Acetate | 3.986 | 43 | 249892 | 18.849 | ug/l | 99 |
| 38) Carbon Tetrachloride | 4.735 | 117 | 258780 | 19.380 | ug/l | 96 |
| 39) Methylcyclohexane | 6.047 | 83 | 253234 | 19.193 | ug/l | 98 |
| 40) Benzene | 5.011 | 78 | 706824 | 19.867 | ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039171.D
Acq On : 25 Sep 2025 11:24
Operator : SY/MD
Sample : VV0925WBS01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Quant Time: Sep 26 01:21:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.166 | 41 | 101017 | 18.119 | ug/l | | 92 |
| 42) 1,2-Dichloroethane | 5.043 | 62 | 243861 | 19.562 | ug/l | | 99 |
| 43) Isopropyl Acetate | 5.198 | 43 | 354785 | 19.627 | ug/l | | 99 |
| 44) Trichloroethene | 5.834 | 130 | 167082 | 20.352 | ug/l | | 99 |
| 45) 1,2-Dichloropropane | 6.092 | 63 | 181382 | 20.511 | ug/l | | 96 |
| 46) Dibromomethane | 6.227 | 93 | 135579 | 20.031 | ug/l | | 98 |
| 47) Bromodichloromethane | 6.429 | 83 | 269985 | 19.295 | ug/l | | 100 |
| 48) Methyl methacrylate | 6.301 | 41 | 154615 | 18.869 | ug/l | | 97 |
| 49) 1,4-Dioxane | 6.294 | 88 | 55817 | 422.109 | ug/l | | 98 |
| 51) 4-Methyl-2-Pentanone | 7.149 | 43 | 1295291 | 108.921 | ug/l | | 99 |
| 52) Toluene | 7.310 | 92 | 442966 | 21.474 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 7.577 | 75 | 244520 | 20.052 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 6.950 | 75 | 272587 | 20.249 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 7.764 | 97 | 184964 | 19.997 | ug/l | | 95 |
| 56) Ethyl methacrylate | 7.719 | 69 | 220741 | 20.096 | ug/l | | 97 |
| 57) 1,3-Dichloropropane | 7.937 | 76 | 293432 | 20.102 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 6.815 | 63 | 541689 | 93.599 | ug/l | | 99 |
| 59) 2-Hexanone | 8.066 | 43 | 942254 | 99.572 | ug/l | | 99 |
| 60) Dibromochloromethane | 8.169 | 129 | 212792 | 20.190 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 8.275 | 107 | 195149 | 20.631 | ug/l | | 99 |
| 64) Tetrachloroethene | 7.899 | 164 | 147205 | 20.157 | ug/l | | 95 |
| 65) Chlorobenzene | 8.805 | 112 | 488359 | 20.108 | ug/l | | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 8.899 | 131 | 174648 | 19.902 | ug/l | | 100 |
| 67) Ethyl Benzene | 8.937 | 91 | 736424 | 20.032 | ug/l | | 99 |
| 68) m/p-Xylenes | 9.063 | 106 | 611502 | 43.097 | ug/l | | 100 |
| 69) o-Xylene | 9.468 | 106 | 263271 | 20.955 | ug/l | | 99 |
| 70) Styrene | 9.487 | 104 | 489732 | 19.311 | ug/l | | 99 |
| 71) Bromoform | 9.654 | 173 | 140287 | 20.466 | ug/l | # | 98 |
| 73) Isopropylbenzene | 9.857 | 105 | 759505 | 20.575 | ug/l | | 100 |
| 74) N-amyl acetate | 9.725 | 43 | 297254 | 20.188 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 10.165 | 83 | 313809 | 19.402 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 10.198 | 75 | 227880 | 19.665 | ug/l | | 98 |
| 77) Bromobenzene | 10.143 | 156 | 194148 | 20.272 | ug/l | | 97 |
| 78) n-propylbenzene | 10.278 | 91 | 917928 | 20.420 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 10.349 | 91 | 569887 | 21.187 | ug/l | | 98 |
| 80) 1,3,5-Trimethylbenzene | 10.464 | 105 | 649406 | 21.165 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 9.931 | 75 | 93631 | 19.398 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 10.464 | 91 | 658860 | 21.124 | ug/l | | 100 |
| 83) tert-Butylbenzene | 10.789 | 119 | 599275 | 19.587 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 10.841 | 105 | 634517 | 21.301 | ug/l | | 100 |
| 85) sec-Butylbenzene | 11.014 | 105 | 814764 | 20.078 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 11.169 | 119 | 692579 | 20.505 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 11.108 | 146 | 380476 | 19.629 | ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 11.198 | 146 | 400938 | 18.854 | ug/l | | 99 |
| 89) n-Butylbenzene | 11.580 | 91 | 629906 | 19.528 | ug/l | | 98 |
| 90) Hexachloroethane | 11.821 | 117 | 153004 | 18.396 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 11.567 | 146 | 359391 | 19.846 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.352 | 75 | 63577 | 22.105 | ug/l | | 98 |
| 93) 1,2,4-Trichlorobenzene | 13.185 | 180 | 198844 | 19.155 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 13.368 | 225 | 100713 | 18.672 | ug/l | | 99 |
| 95) Naphthalene | 13.426 | 128 | 654241 | 19.499 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 13.667 | 180 | 210809 | 19.856 | ug/l | | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039171.D
Acq On : 25 Sep 2025 11:24
Operator : SY/MD
Sample : VV0925WBS01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Quant Time: Sep 26 01:21:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

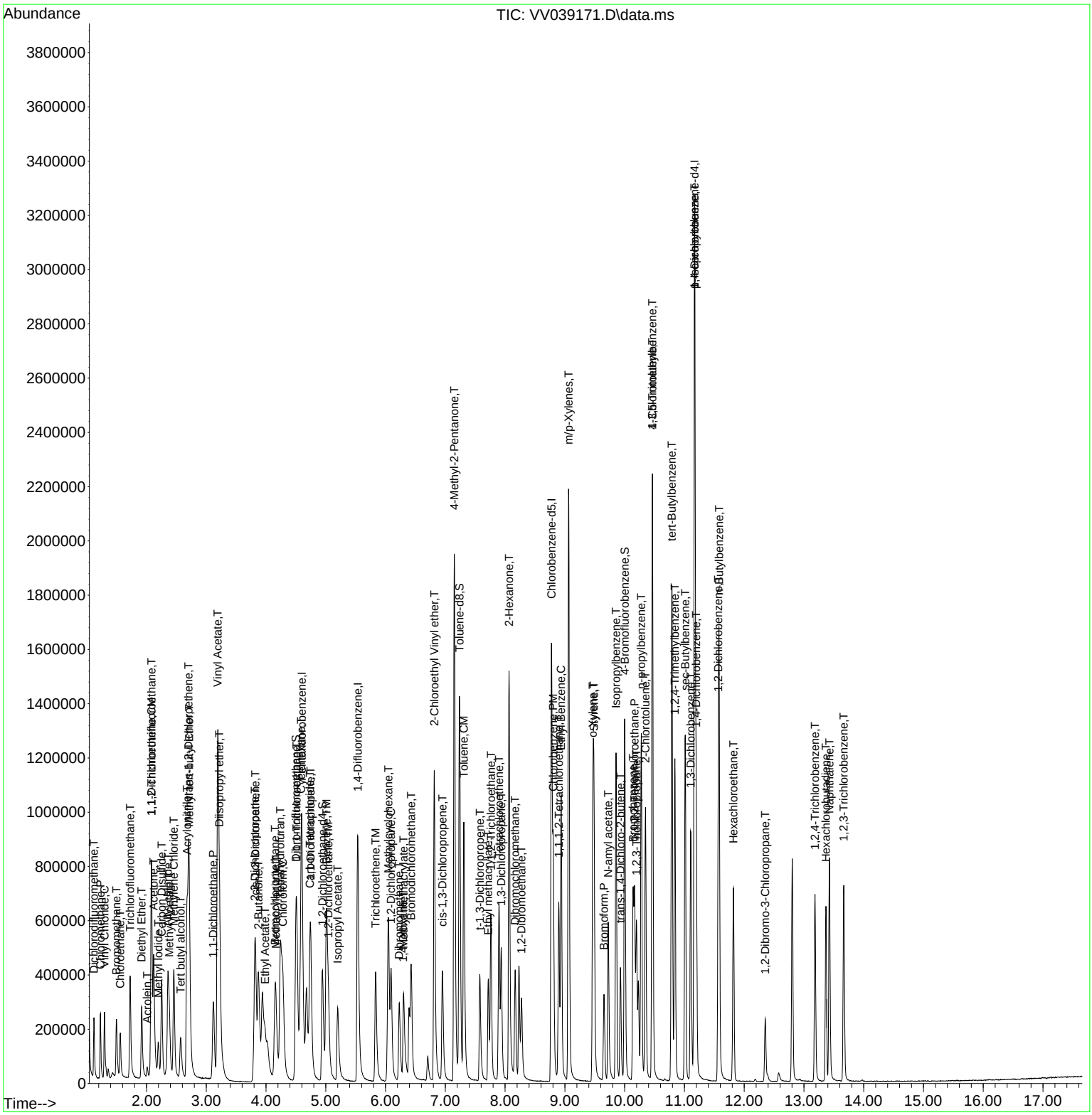
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

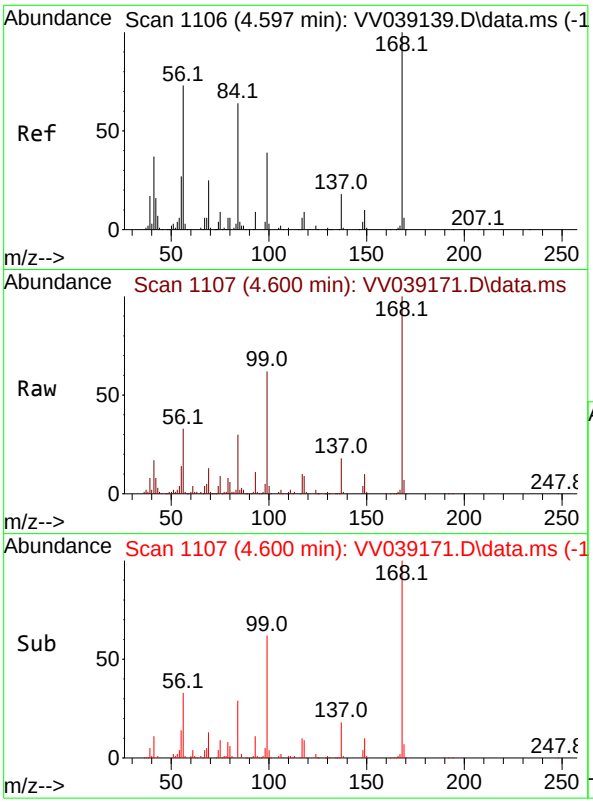
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092525\
Data File : VV039171.D
Acq On : 25 Sep 2025 11:24
Operator : SY/MD
Sample : VV0925WBS01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Quant Time: Sep 26 01:21:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



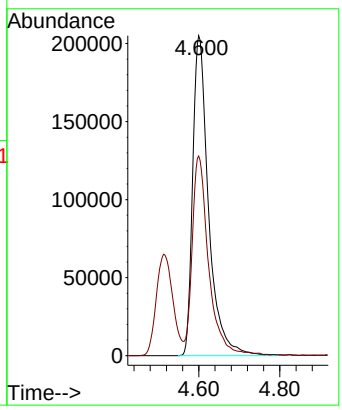


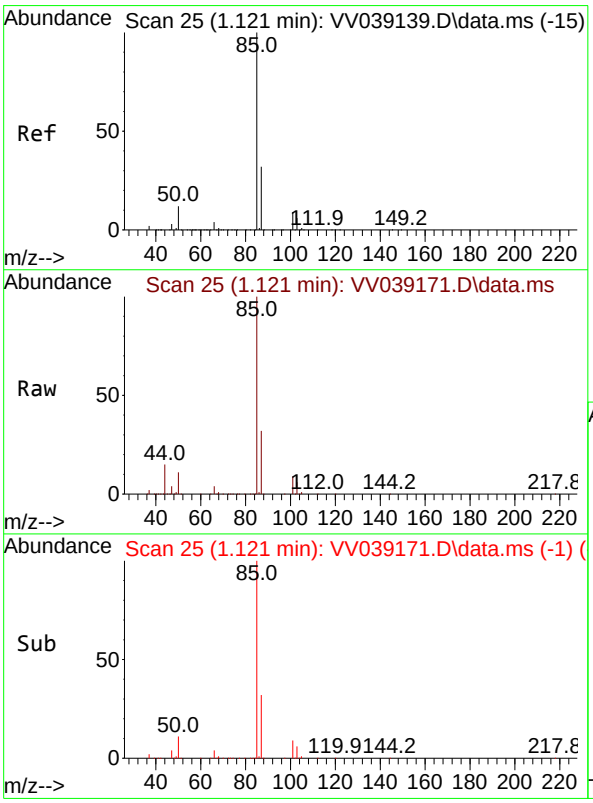

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion:168 Resp: 557017

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 62.1 | 49.6 | 74.4 |

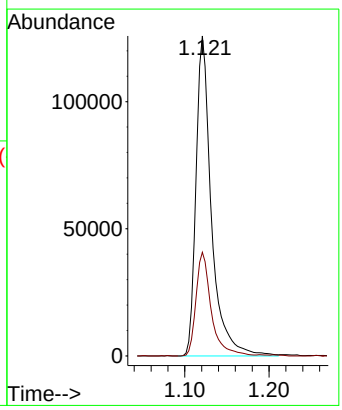


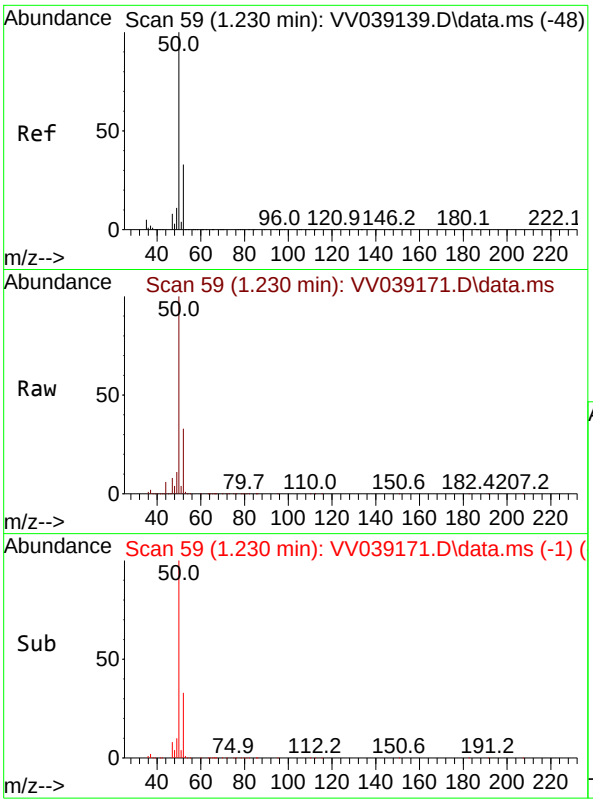




#2
Dichlorodifluoromethane
Concen: 18.191 ug/l
RT: 1.121 min Scan# 25
Delta R.T. -0.000 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 85 Resp: 160404

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.4 | 16.0 | 47.9 |



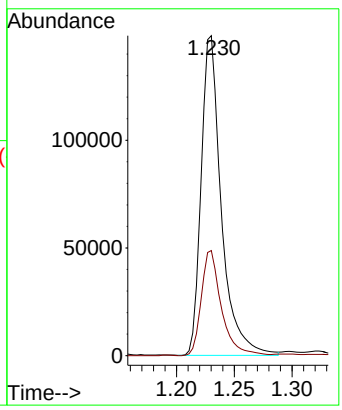


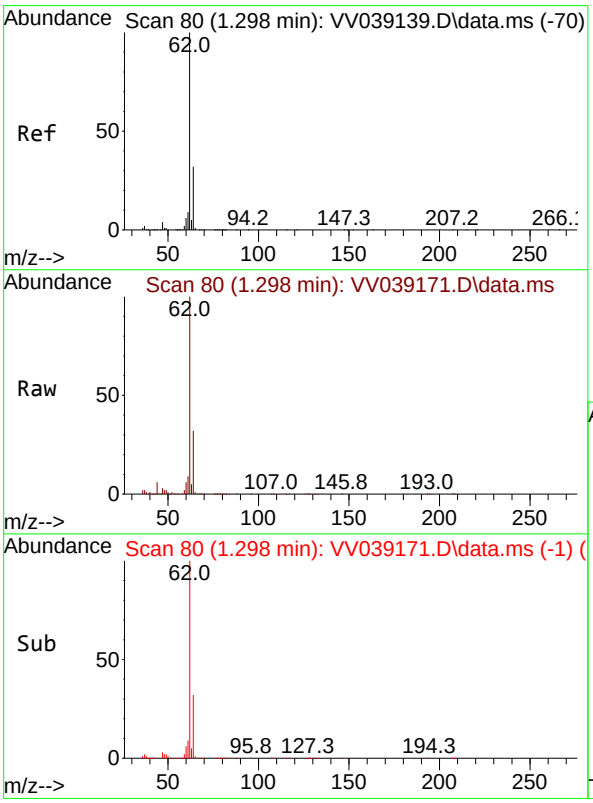

#3
Chloromethane
Concen: 19.082 ug/l
RT: 1.230 min Scan# 5
Delta R.T. -0.000 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion: 50 Resp: 180629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.9 | 26.0 | 39.0 |

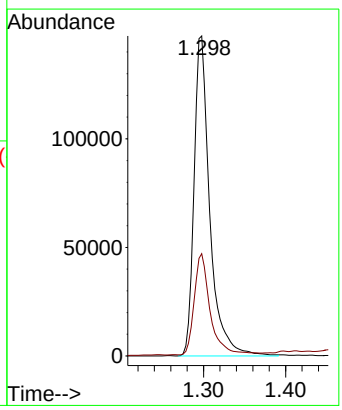


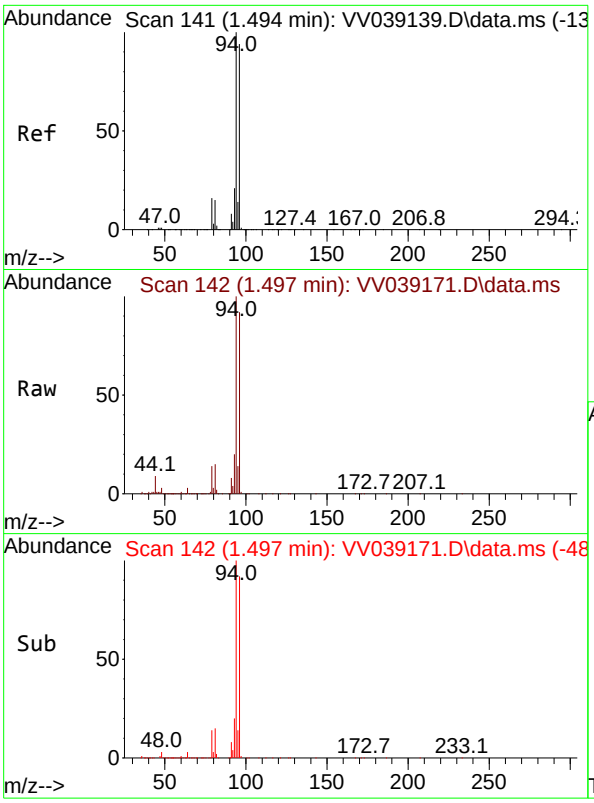




#4
Vinyl Chloride
Concen: 19.356 ug/l
RT: 1.298 min Scan# 80
Delta R.T. -0.000 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 62 Resp: 196152

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.6 | 25.6 | 38.4 |



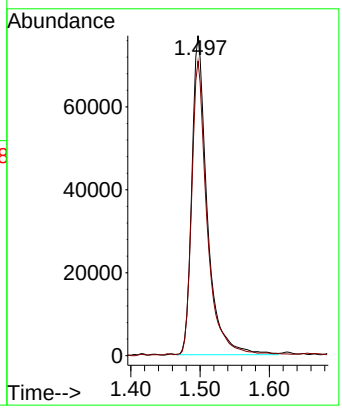


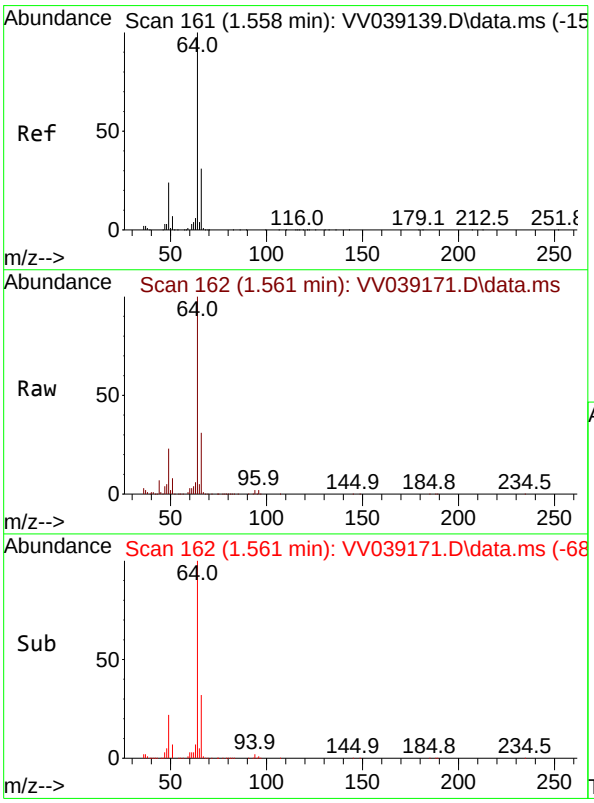

#5
Bromomethane
Concen: 18.704 ug/l
RT: 1.497 min Scan# 14
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion: 94 Resp: 119487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 91.8 | 74.9 | 112.3 |

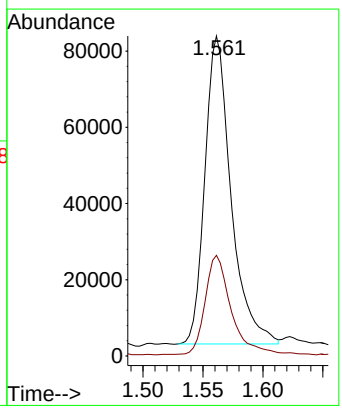


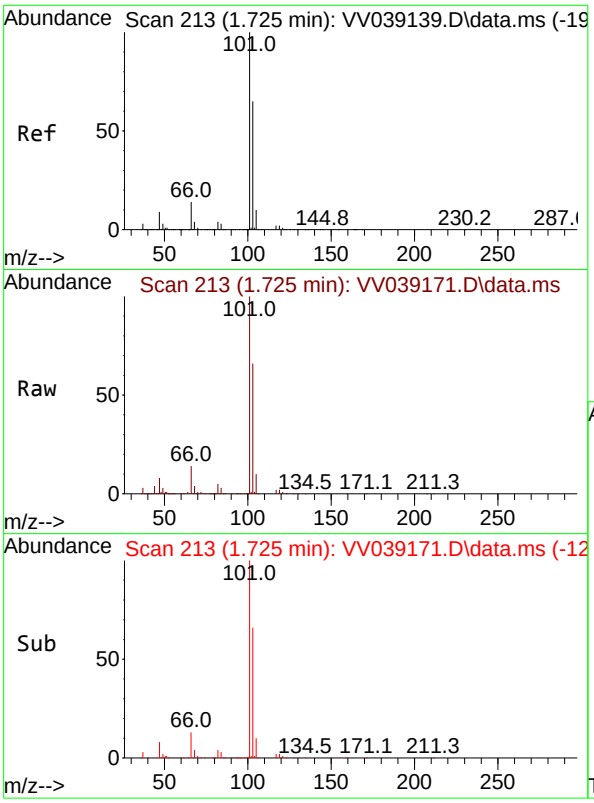




#6
Chloroethane
Concen: 19.279 ug/l
RT: 1.561 min Scan# 162
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 64 Resp: 122694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.1 | 24.6 | 36.8 |



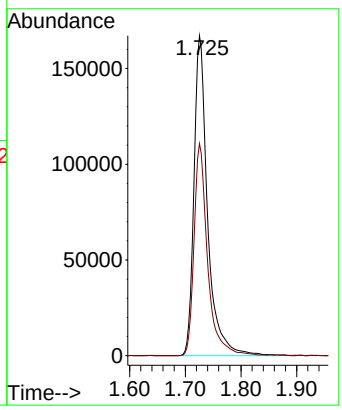


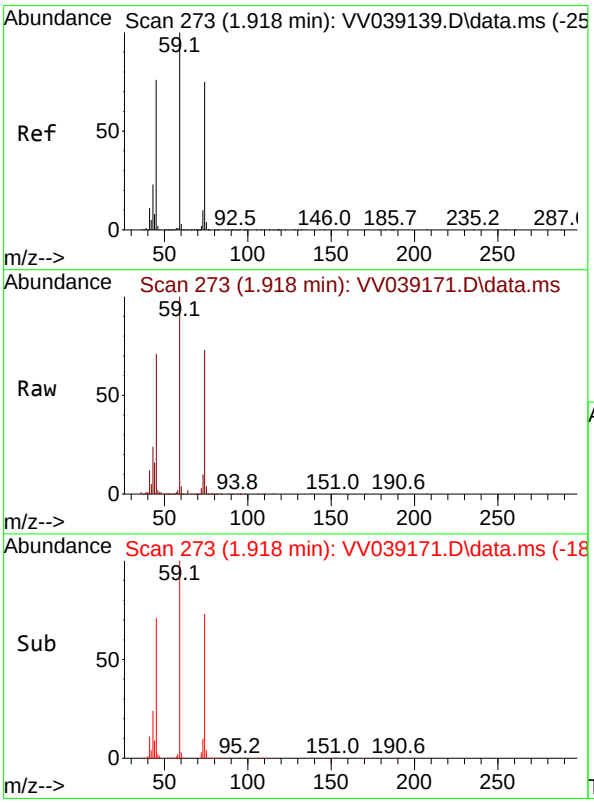

#7
Trichlorofluoromethane
Concen: 19.396 ug/l
RT: 1.725 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion:101 Resp: 284580

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 66.2 | 52.0 | 78.0 |

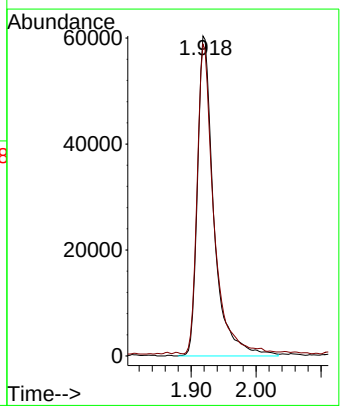


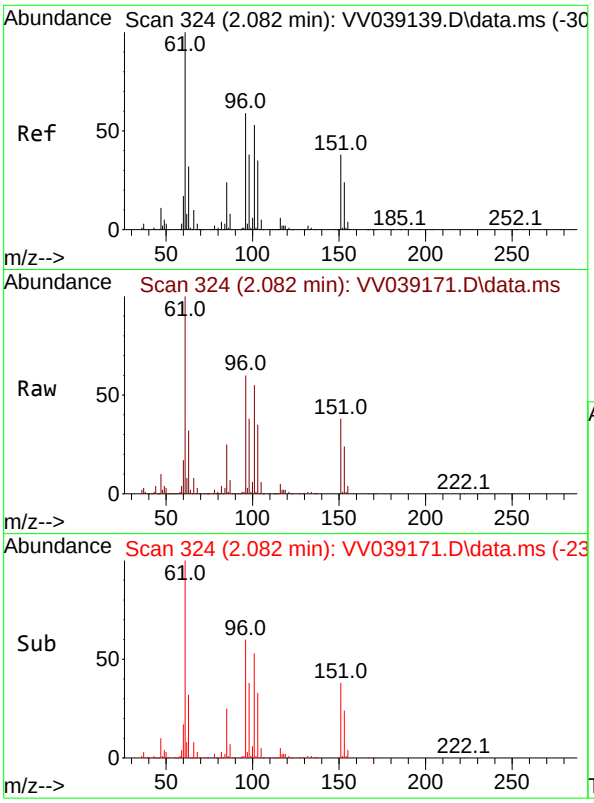




#8
Diethyl Ether
Concen: 19.466 ug/l
RT: 1.918 min Scan# 273
Delta R.T. 0.000 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 74 Resp: 106026

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 97.8 | 49.6 | 148.8 |



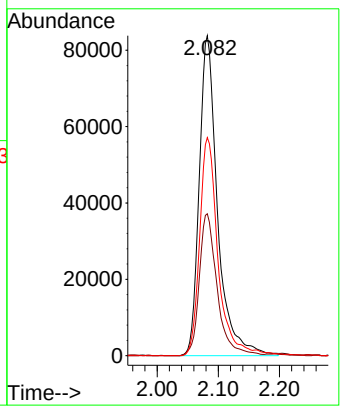


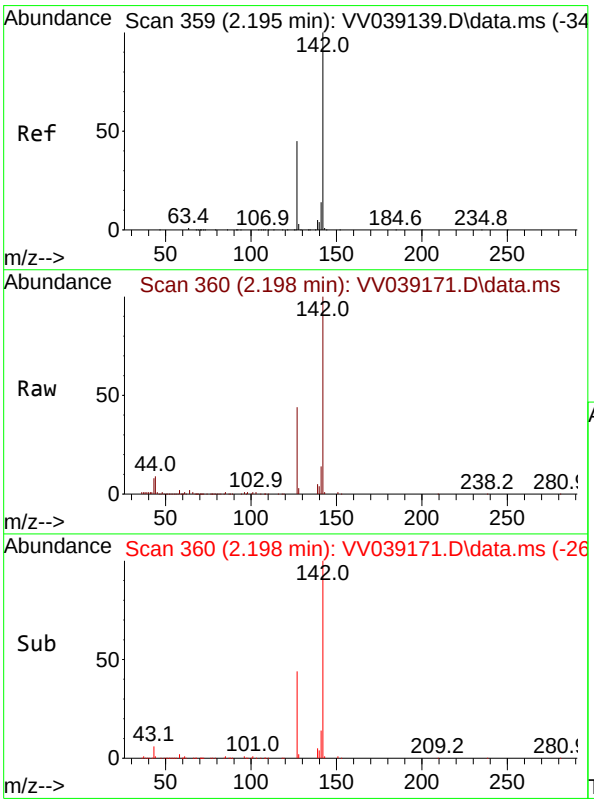

#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.007 ug/l
RT: 2.082 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion:101 Resp: 174658

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 43.4 | 36.2 | 54.2 |
| 151 | 67.4 | 56.3 | 84.5 |

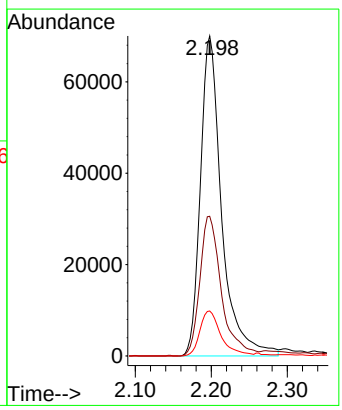


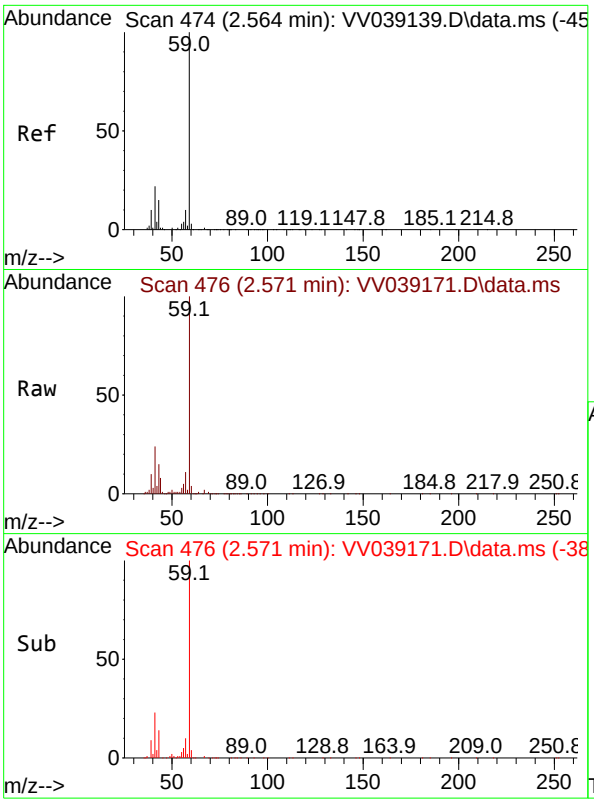




#10
Methyl Iodide
Concen: 16.356 ug/l
RT: 2.198 min Scan# 360
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion:142 Resp: 135972

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 44.3 | 36.3 | 54.5 |
| 141 | 14.0 | 11.2 | 16.8 |



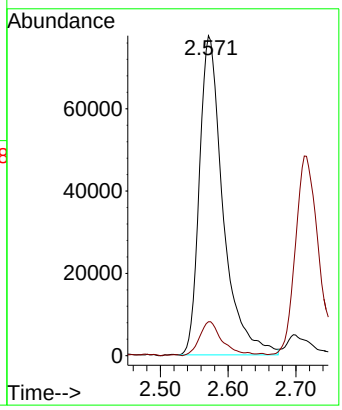


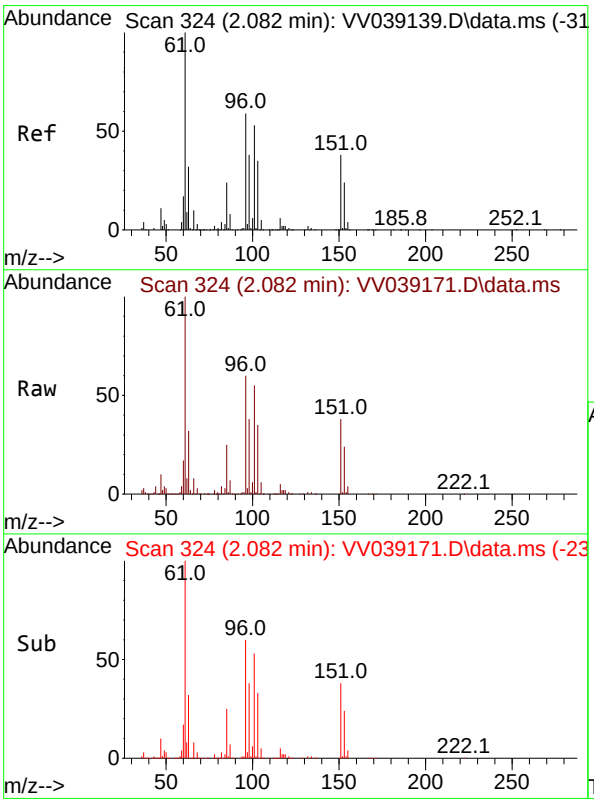

#11
Tert butyl alcohol
Concen: 110.174 ug/l
RT: 2.571 min Scan# 4
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion: 59 Resp: 187721

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.3 | 7.8 | 11.8 |

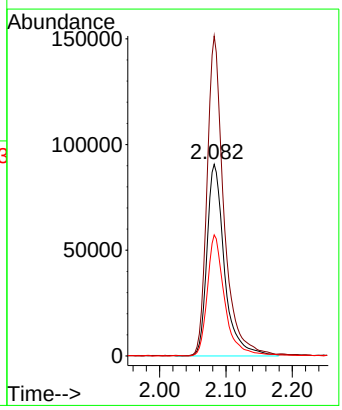


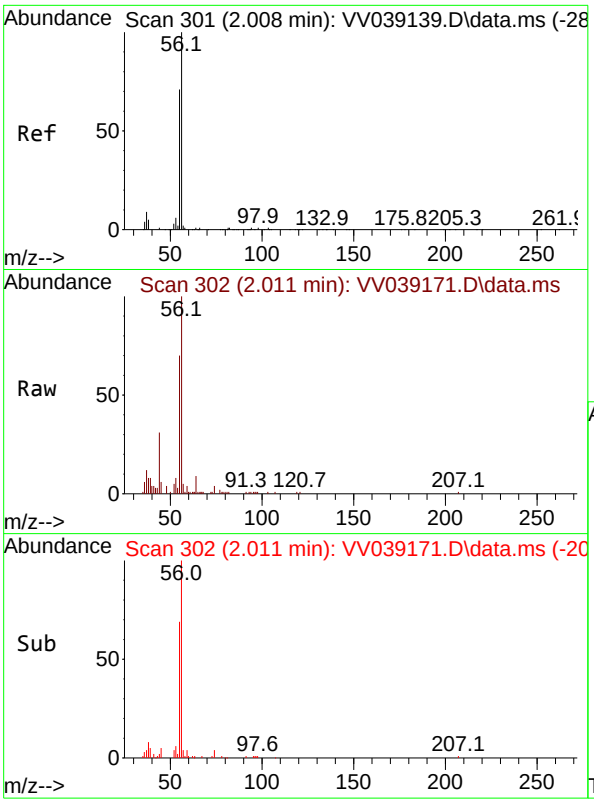




#12
1,1-Dichloroethene
Concen: 19.882 ug/l
RT: 2.082 min Scan# 324
Delta R.T. -0.000 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 96 Resp: 166976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 166.7 | 136.0 | 204.0 |
| 98 | 63.0 | 51.0 | 76.6 |



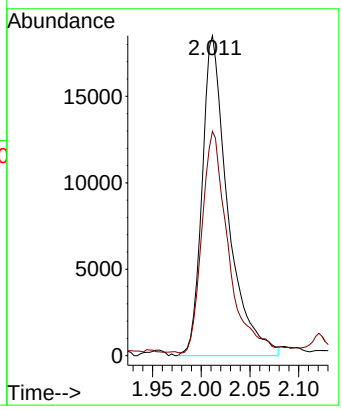


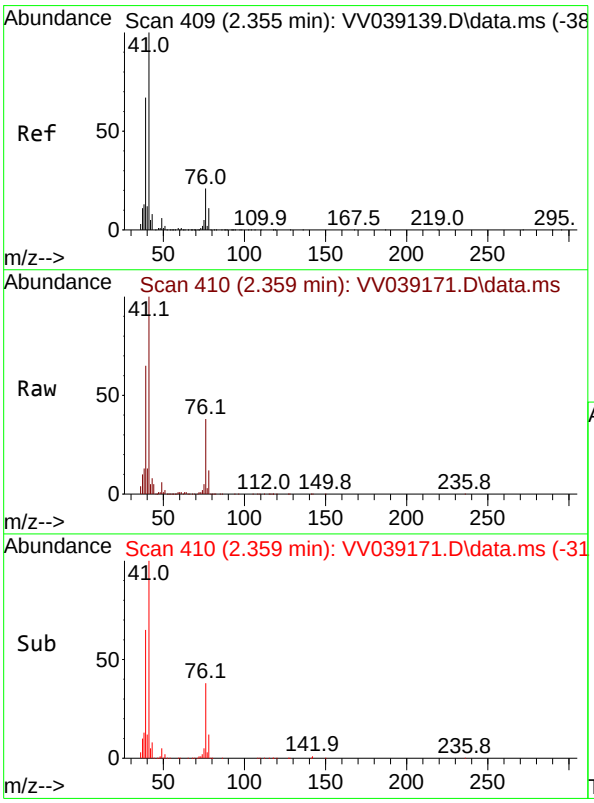

#13
Acrolein
Concen: 115.083 ug/l
RT: 2.011 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion: 56 Resp: 34025

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 71.6 | 56.2 | 84.4 |

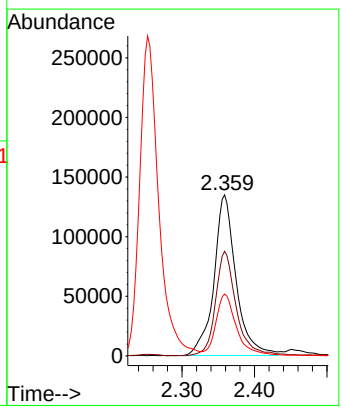


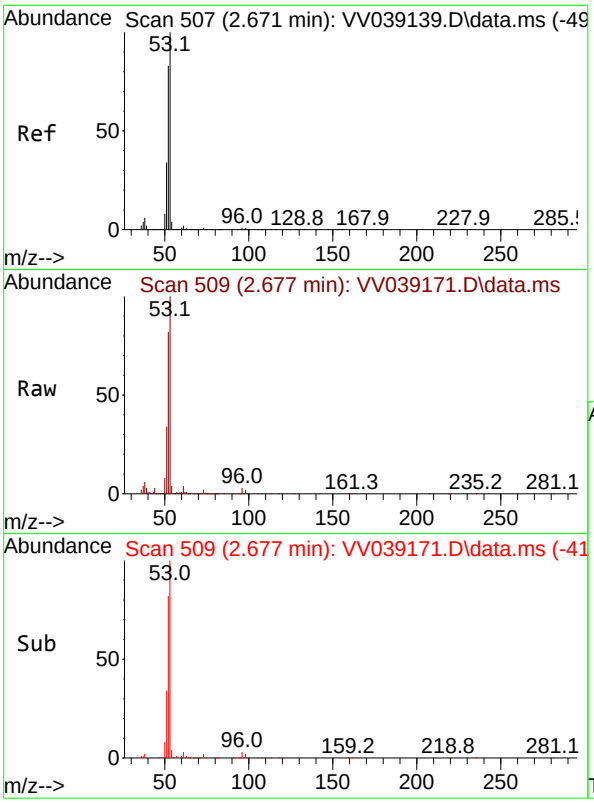




#14
Allyl chloride
Concen: 19.080 ug/l
RT: 2.359 min Scan# 410
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 41 Resp: 286242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 61.0 | 51.0 | 76.6 |
| 76 | 35.6 | 28.2 | 42.4 |



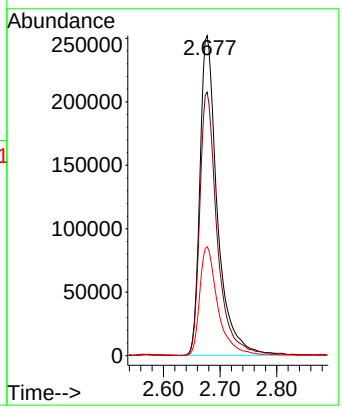


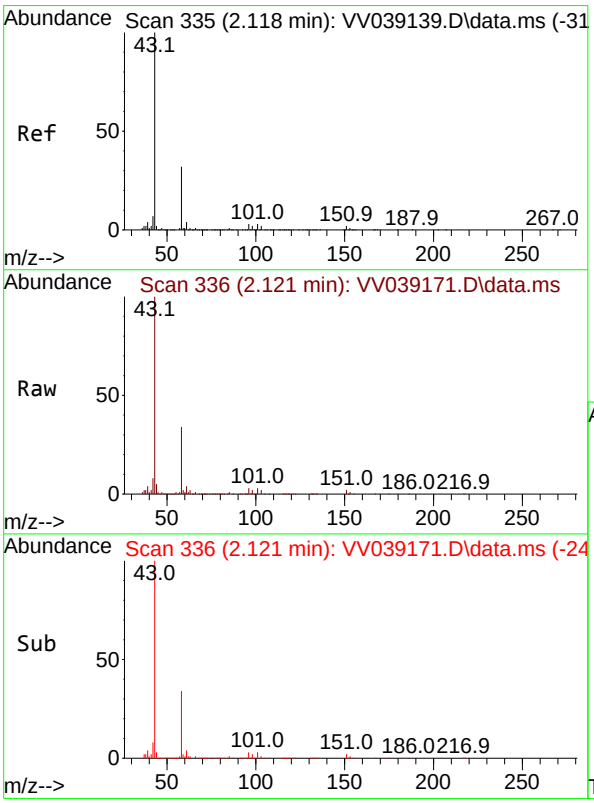

#15
Acrylonitrile
Concen: 98.597 ug/l
RT: 2.677 min Scan# 5
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion: 53 Resp: 538540

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.8 | 66.1 | 99.1 |
| 51 | 35.2 | 28.5 | 42.7 |

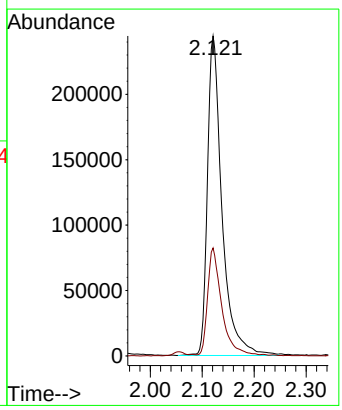


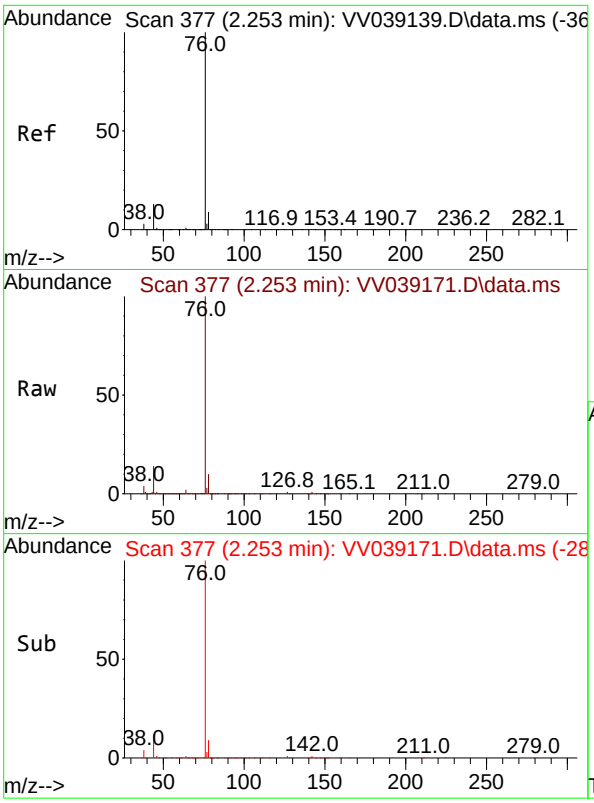




#16
Acetone
Concen: 89.017 ug/l
RT: 2.121 min Scan# 336
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 43 Resp: 476447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.7 | 25.8 | 38.6 |



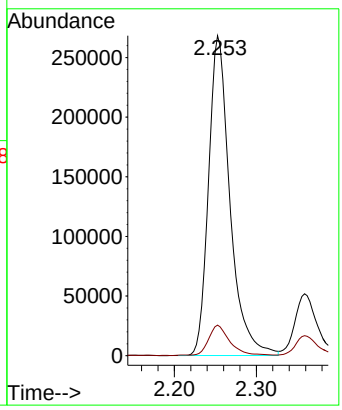


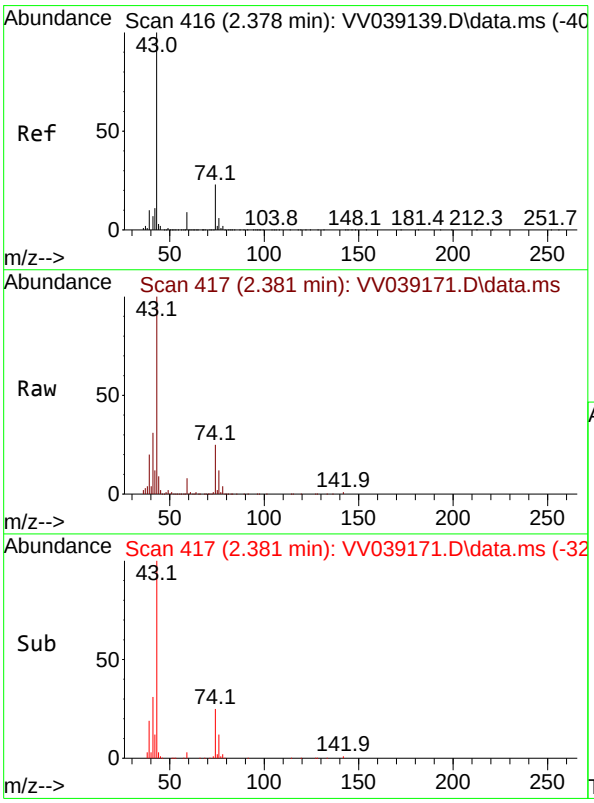

#17
Carbon Disulfide
Concen: 18.977 ug/l
RT: 2.253 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion: 76 Resp: 487416

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.4 | 7.4 | 11.0 |

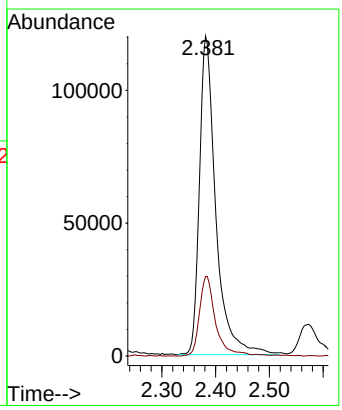


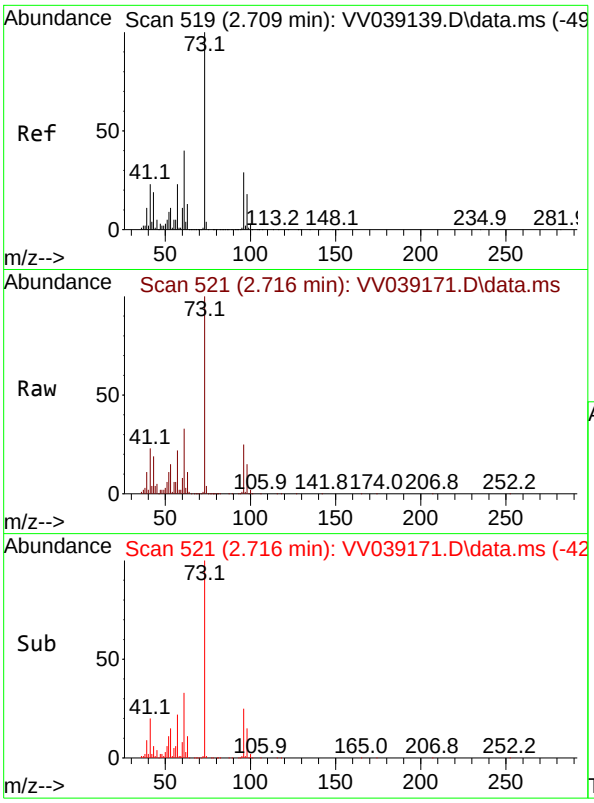




#18
Methyl Acetate
Concen: 21.167 ug/l
RT: 2.381 min Scan# 417
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 43 Resp: 252836

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 24.4 | 18.6 | 27.8 |



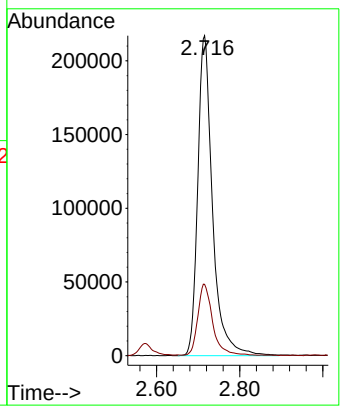


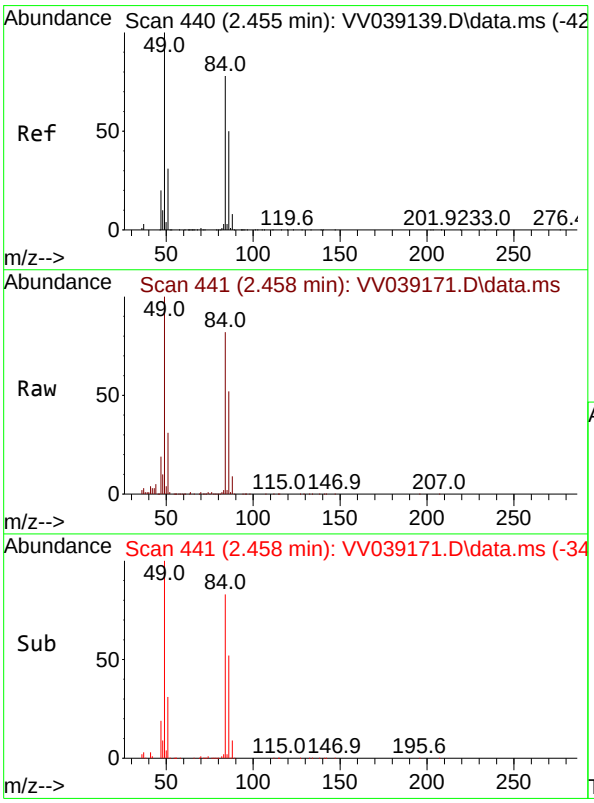

#19
Methyl tert-butyl Ether
Concen: 19.995 ug/l
RT: 2.716 min Scan# 5
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion: 73 Resp: 535106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.3 | 18.2 | 27.4 |

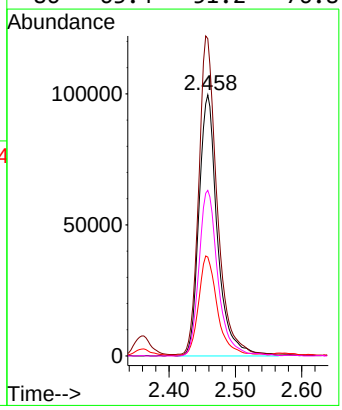


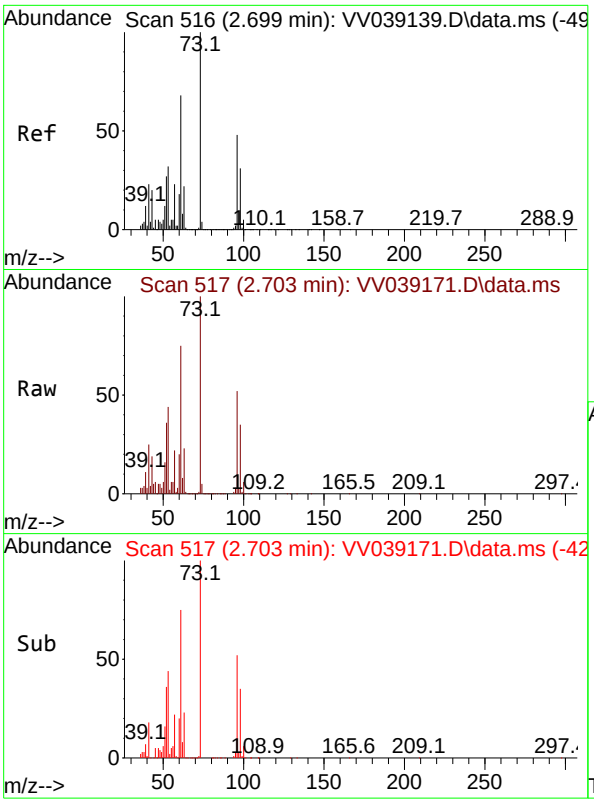




#20
Methylene Chloride
Concen: 20.555 ug/l
RT: 2.458 min Scan# 441
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 84 Resp: 192332

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 120.8 | 102.8 | 154.2 |
| 51 | 37.5 | 31.9 | 47.9 |
| 86 | 63.4 | 51.2 | 76.8 |



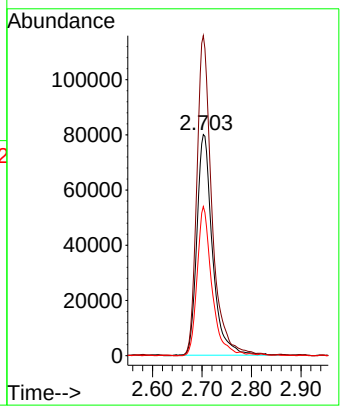


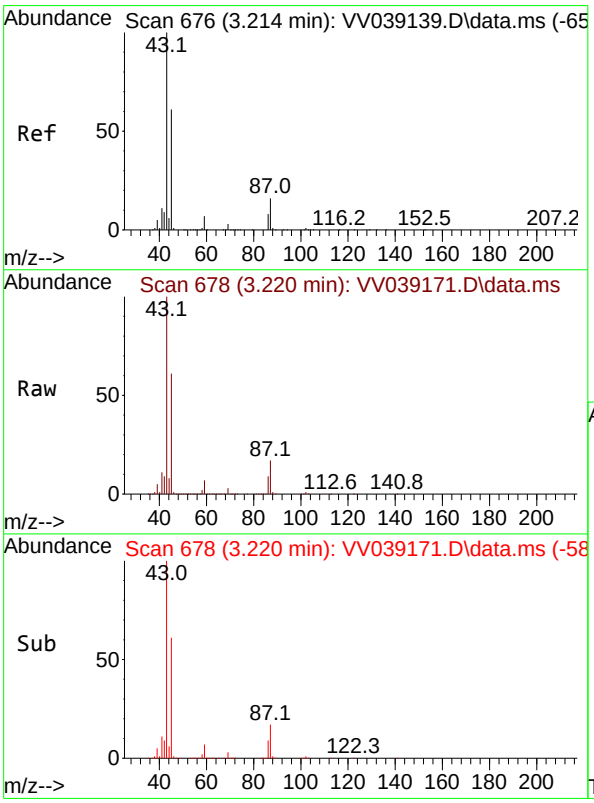

#21
trans-1,2-Dichloroethene
Concen: 19.703 ug/l
RT: 2.703 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion: 96 Resp: 176159

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 145.0 | 112.8 | 169.2 |
| 98 | 67.6 | 51.1 | 76.7 |

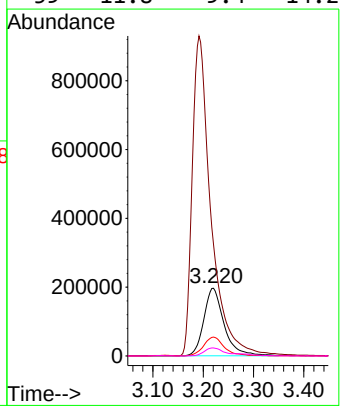


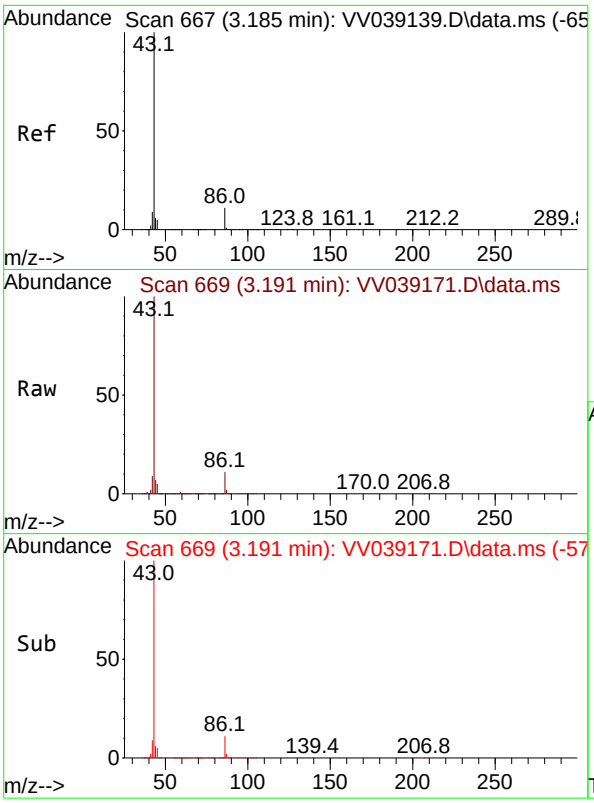




#22
Diisopropyl ether
Concen: 19.161 ug/l
RT: 3.220 min Scan# 678
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 45 Resp: 549959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 164.4 | 130.9 | 196.3 |
| 87 | 27.6 | 21.1 | 31.7 |
| 59 | 11.8 | 9.4 | 14.2 |



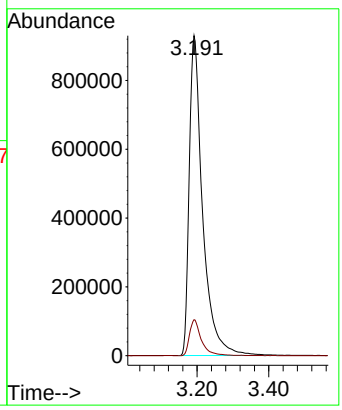


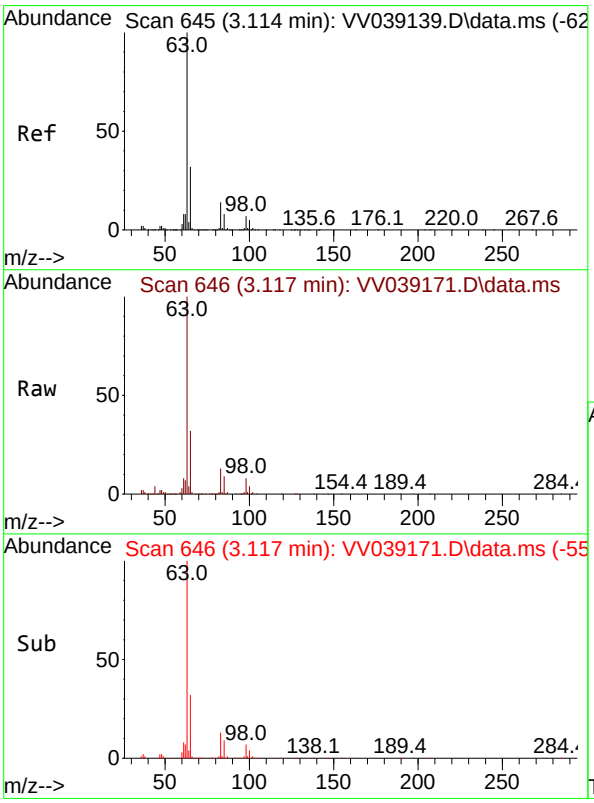

#23
Vinyl Acetate
Concen: 96.182 ug/l
RT: 3.191 min Scan# 6
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion: 43 Resp: 2415006

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.2 | 8.4 | 12.6 |

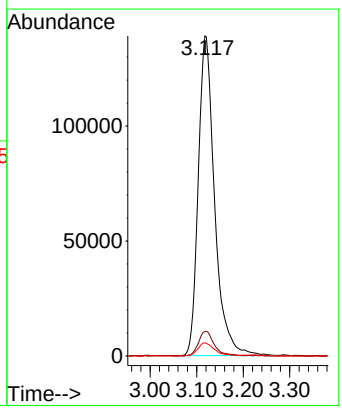


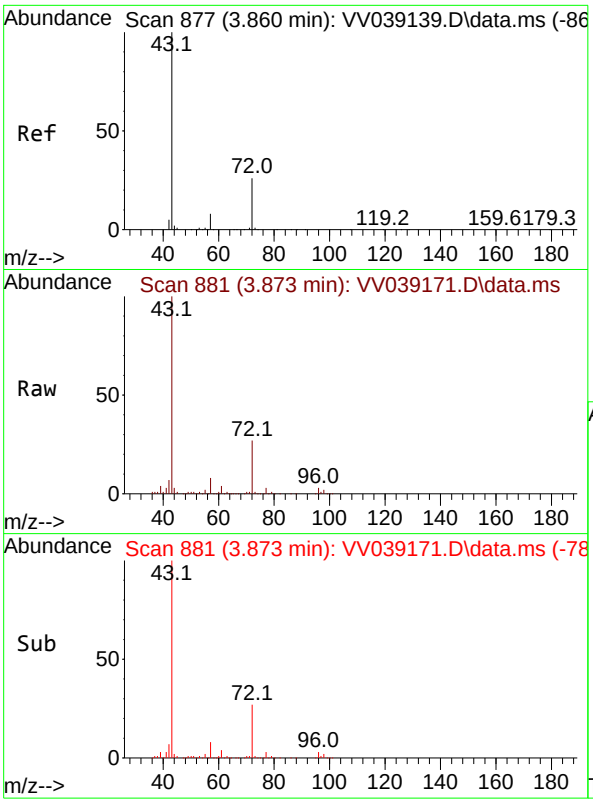




#24
1,1-Dichloroethane
Concen: 19.322 ug/l
RT: 3.117 min Scan# 646
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 63 Resp: 339160

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.6 | 3.4 | 10.2 |
| 100 | 4.1 | 2.2 | 6.6 |



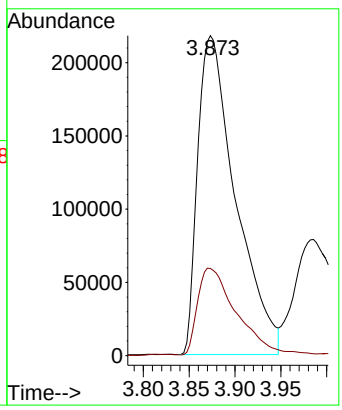


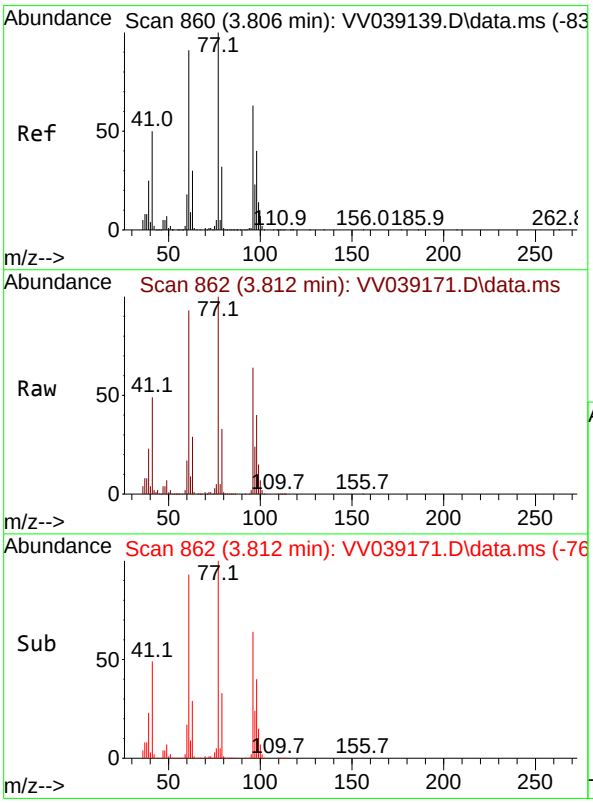

#25
2-Butanone
Concen: 97.122 ug/l
RT: 3.873 min Scan# 8
Delta R.T. 0.013 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion: 43 Resp: 626977

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 27.1 | 21.0 | 31.6 |

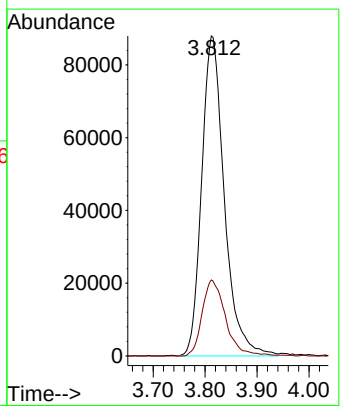


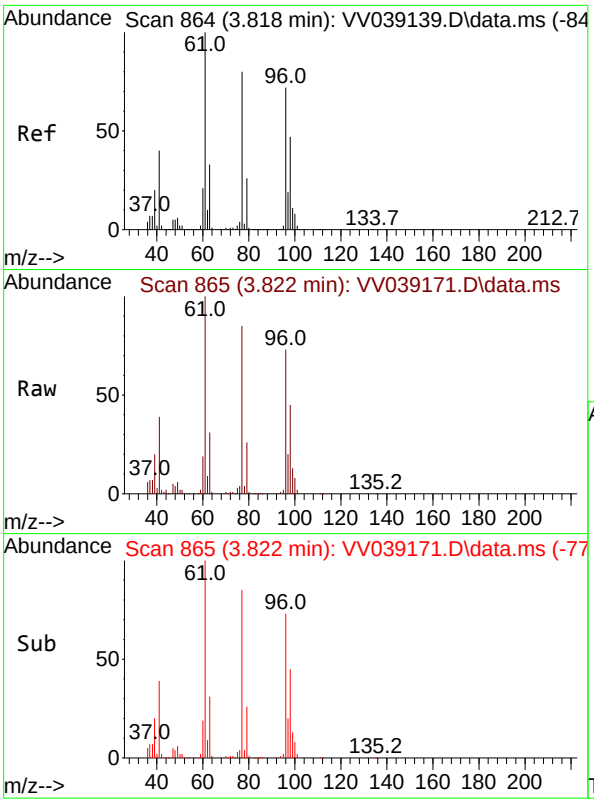




#26
2,2-Dichloropropane
Concen: 17.109 ug/l
RT: 3.812 min Scan# 862
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 77 Resp: 266277

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 24.3 | 11.6 | 34.7 |



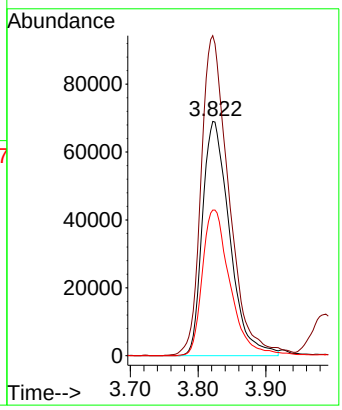


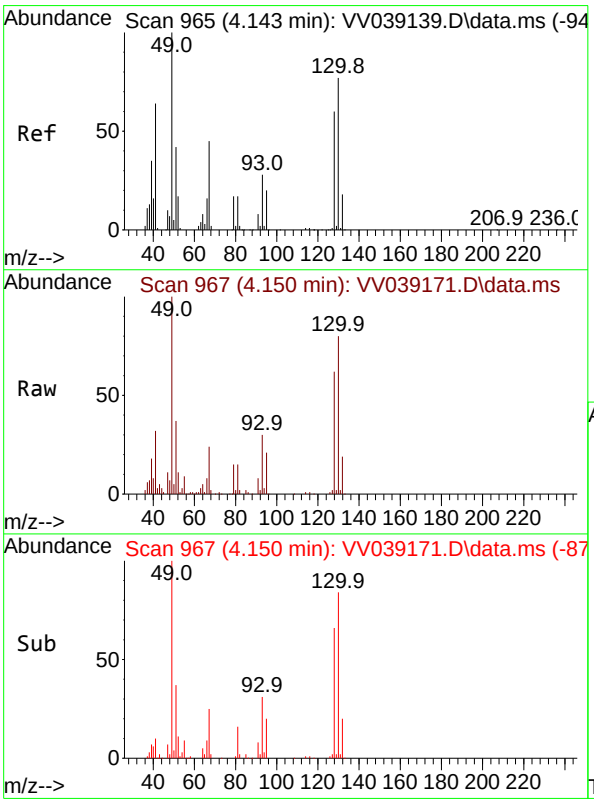

#27
cis-1,2-Dichloroethene
Concen: 19.468 ug/l
RT: 3.822 min Scan# 8
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion: 96 Resp: 191963

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 140.4 | 0.0 | 286.4 |
| 98 | 63.8 | 0.0 | 126.6 |

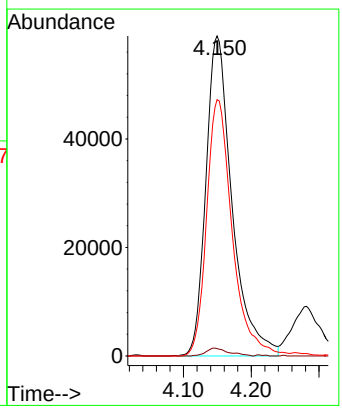


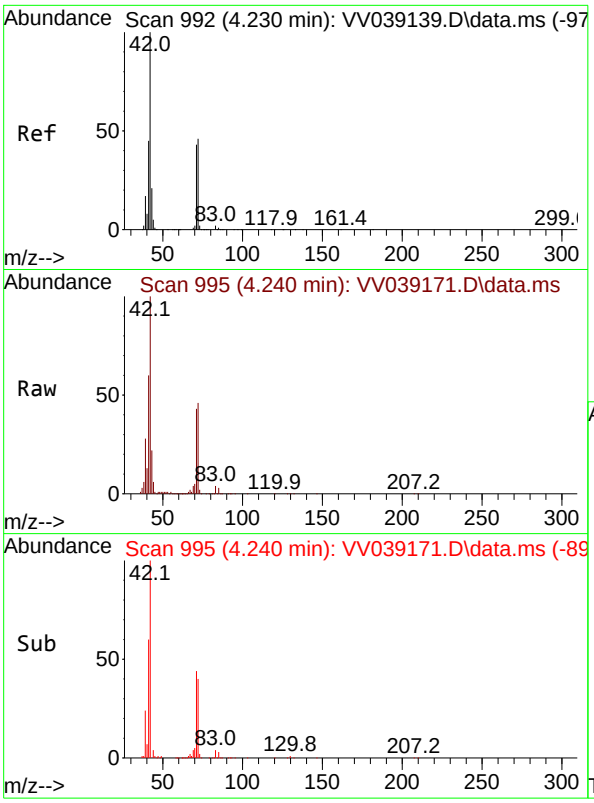




#28
Bromochloromethane
Concen: 20.475 ug/l
RT: 4.150 min Scan# 967
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 49 Resp: 158654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.1 | 0.0 | 4.2 |
| 130 | 78.2 | 60.2 | 90.2 |



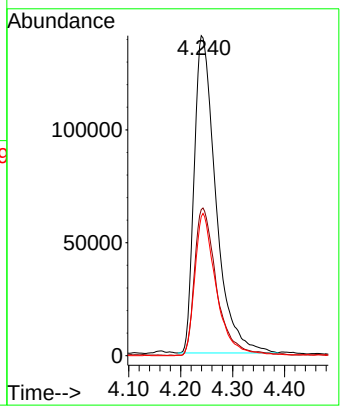


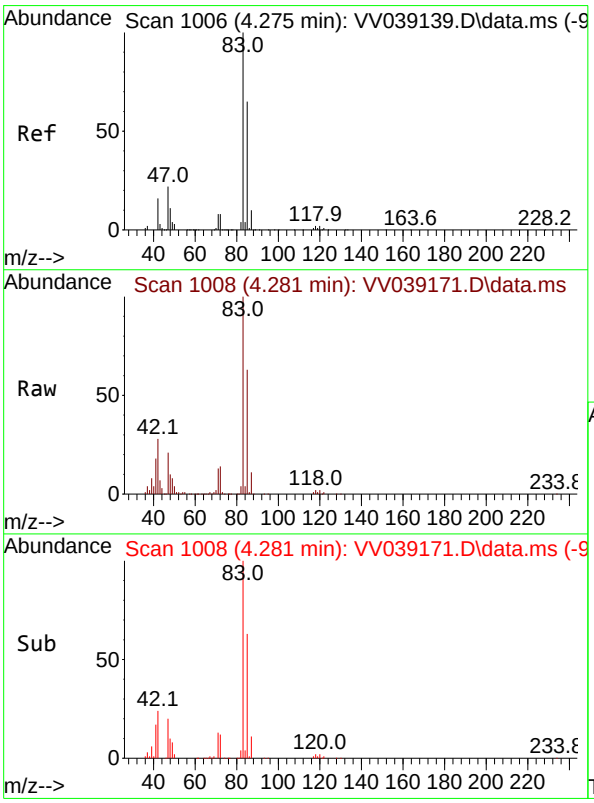

#29
Tetrahydrofuran
Concen: 100.814 ug/l
RT: 4.240 min Scan# 9
Delta R.T. 0.010 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion: 42 Resp: 407358

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 46.4 | 36.3 | 54.5 |
| 71 | 44.4 | 34.3 | 51.5 |

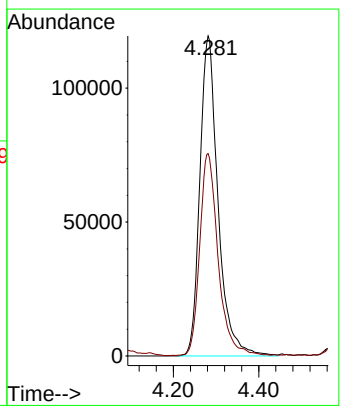


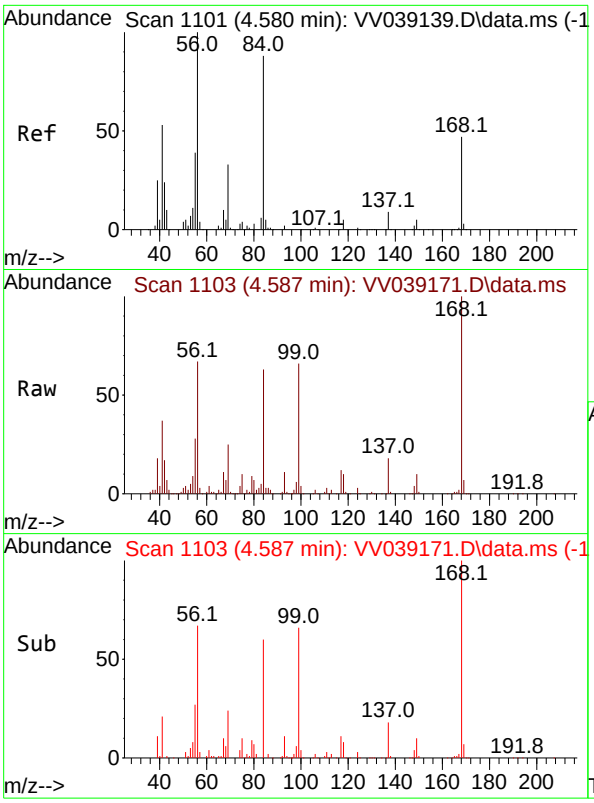




#30
Chloroform
Concen: 19.234 ug/l
RT: 4.281 min Scan# 1008
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 83 Resp: 352541

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.1 | 52.1 | 78.1 |



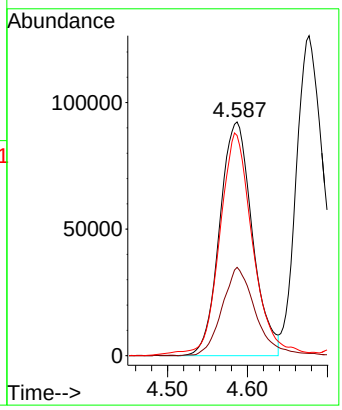


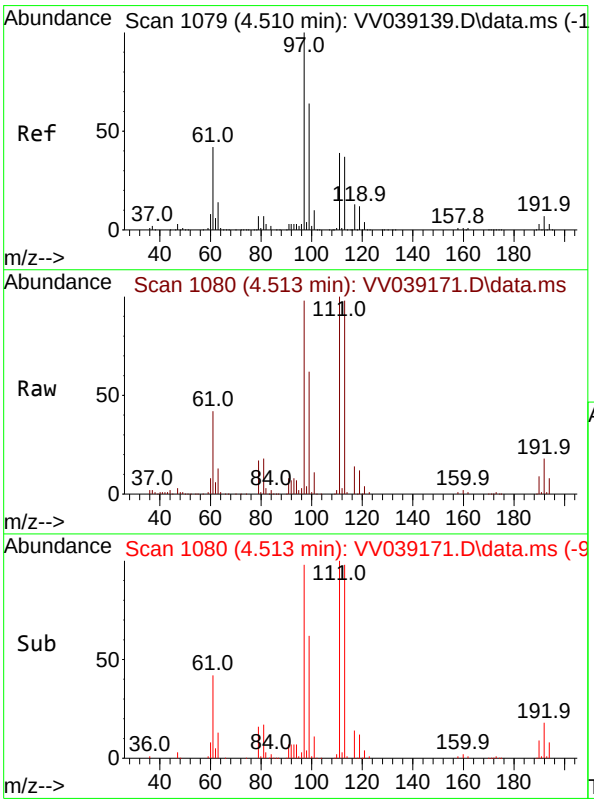

#31
Cyclohexane
Concen: 18.223 ug/l
RT: 4.587 min Scan# 11
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion: 56 Resp: 262018

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 37.7 | 26.2 | 39.2 |
| 84 | 92.4 | 70.3 | 105.5 |

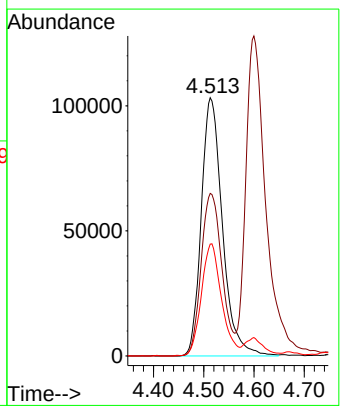


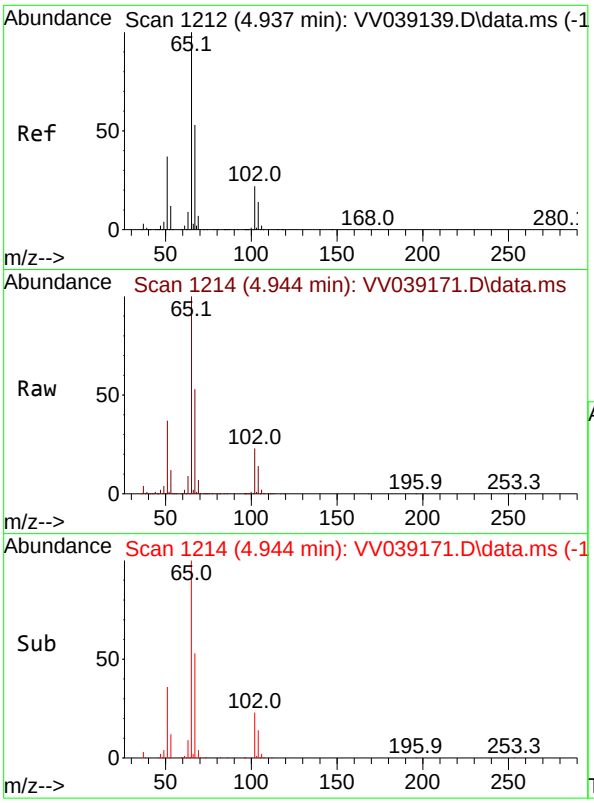




#32
1,1,1-Trichloroethane
Concen: 19.027 ug/l
RT: 4.513 min Scan# 1080
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 97 Resp: 301922

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 61.4 | 49.6 | 74.4 |
| 61 | 41.0 | 34.5 | 51.7 |



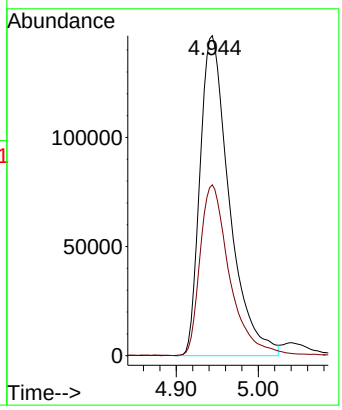


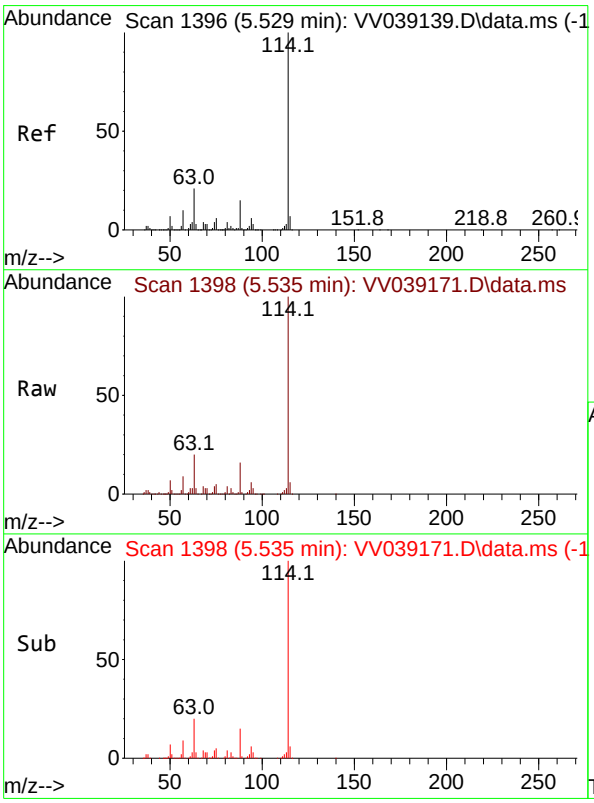

#33
1,2-Dichloroethane-d4
Concen: 45.127 ug/l
RT: 4.944 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion: 65 Resp: 363796

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 54.0 | 0.0 | 107.0 |

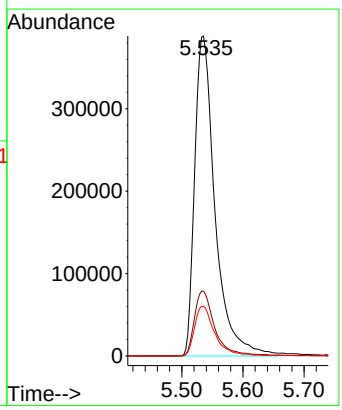


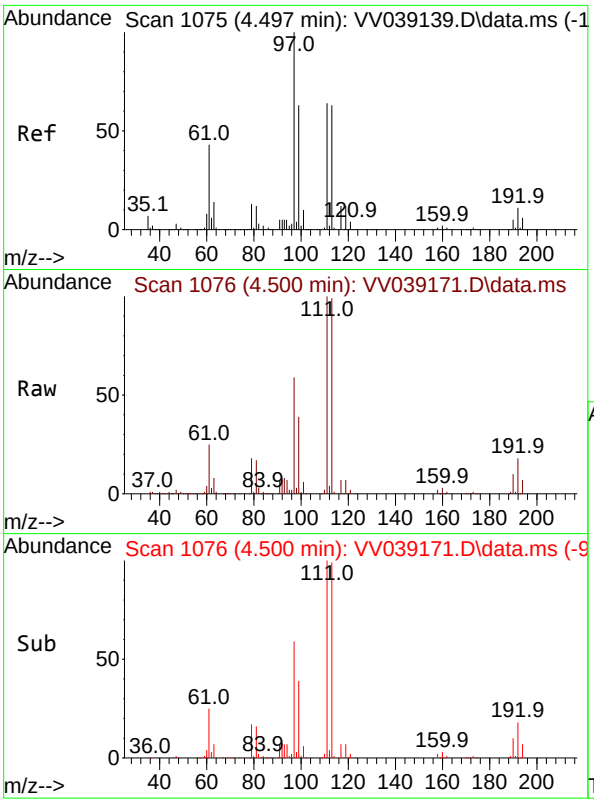




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion:114 Resp: 898902

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.2 | 0.0 | 42.6 |
| 88 | 15.5 | 0.0 | 30.8 |



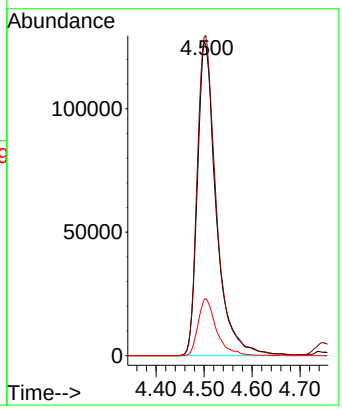


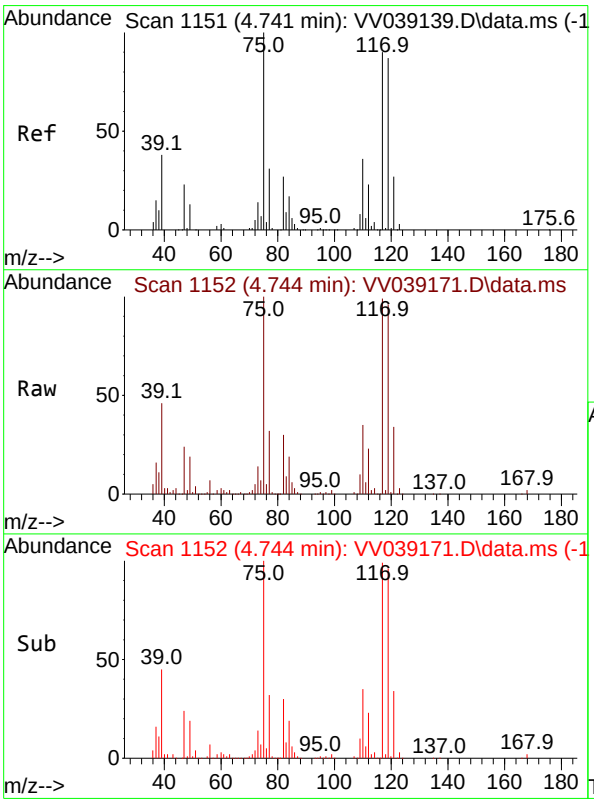

#35
Dibromofluoromethane
Concen: 47.843 ug/l
RT: 4.500 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion:113 Resp: 345732

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.9 | 82.4 | 123.6 |
| 192 | 17.7 | 13.8 | 20.8 |

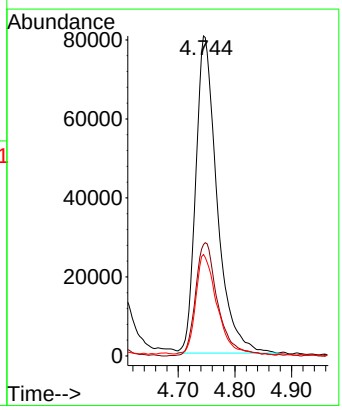


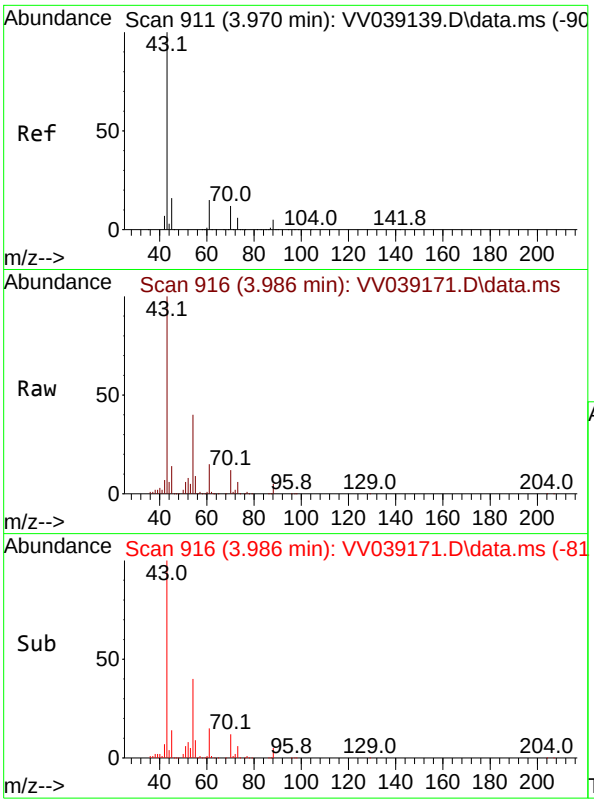




#36
1,1-Dichloropropene
Concen: 19.244 ug/l
RT: 4.744 min Scan# 1152
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 75 Resp: 210259

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 37.4 | 18.1 | 54.1 |
| 77 | 32.0 | 24.8 | 37.2 |



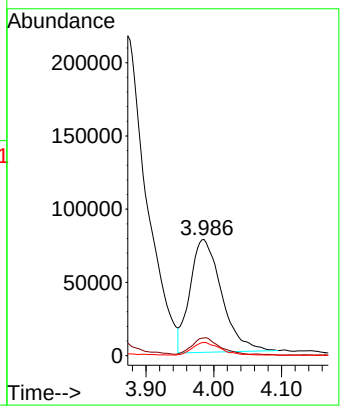


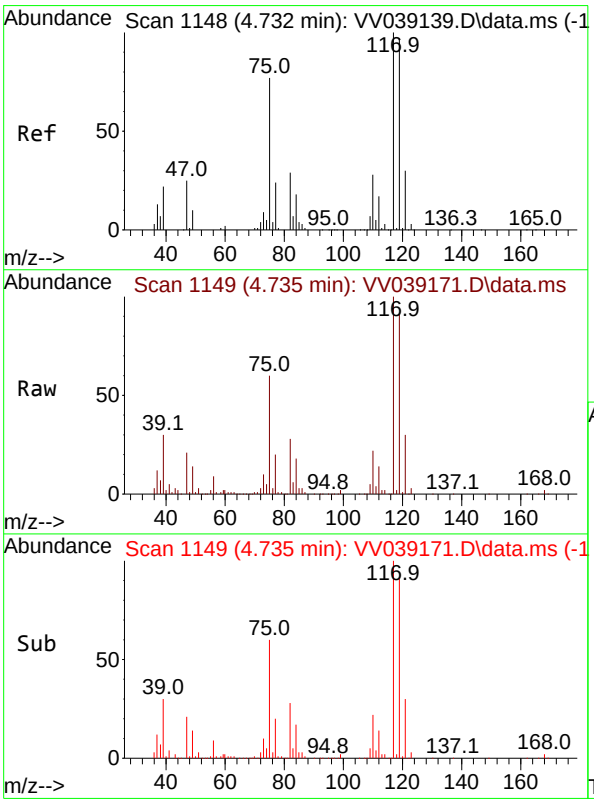

#37
Ethyl Acetate
Concen: 18.849 ug/l
RT: 3.986 min Scan# 91
Delta R.T. 0.016 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion: 43 Resp: 249892

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 12.6 | 10.3 | 15.5 |
| 70 | 10.0 | 8.0 | 12.0 |

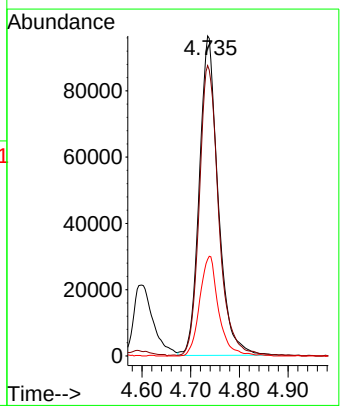


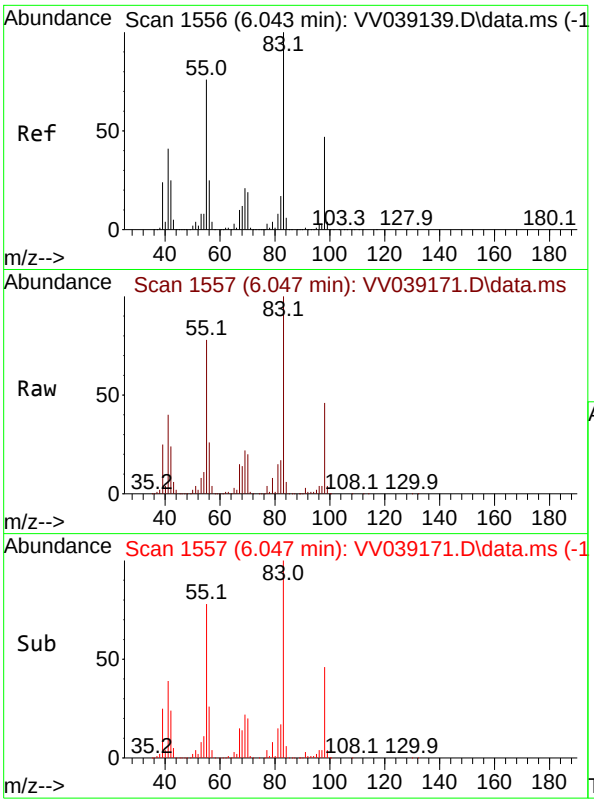




#38
Carbon Tetrachloride
Concen: 19.380 ug/l
RT: 4.735 min Scan# 1149
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion:117 Resp: 258780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 90.8 | 77.2 | 115.8 |
| 121 | 30.3 | 24.2 | 36.2 |



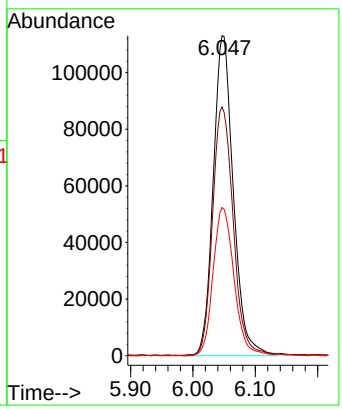


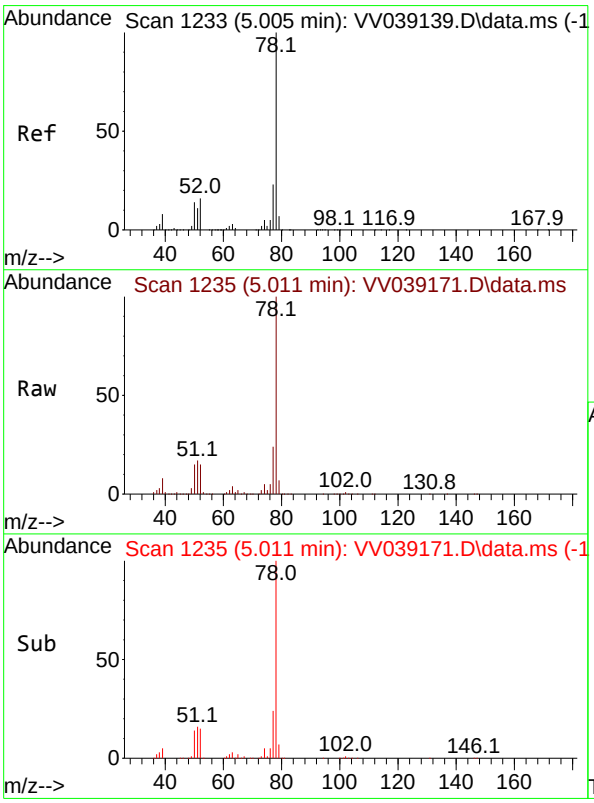

#39
Methylcyclohexane
Concen: 19.193 ug/l
RT: 6.047 min Scan# 1
Delta R.T. 0.004 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion: 83 Resp: 253234

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 77.6 | 60.5 | 90.7 |
| 98 | 46.2 | 37.8 | 56.6 |

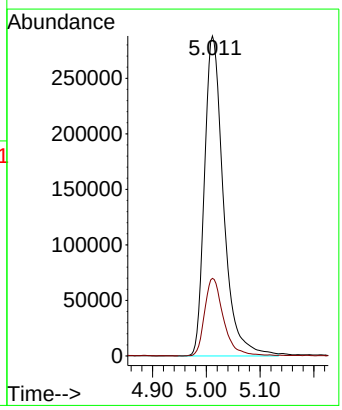


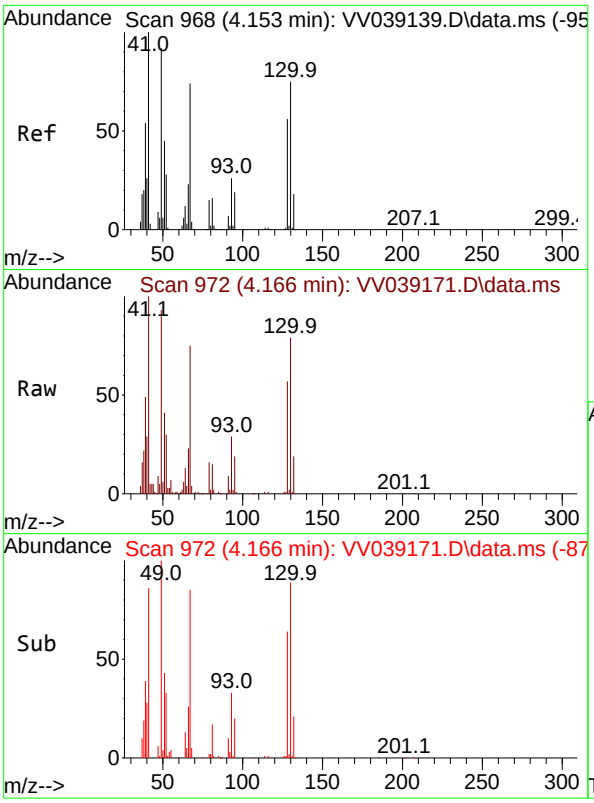




#40
Benzene
Concen: 19.867 ug/l
RT: 5.011 min Scan# 1235
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 78 Resp: 706824

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.2 | 18.7 | 28.1 |



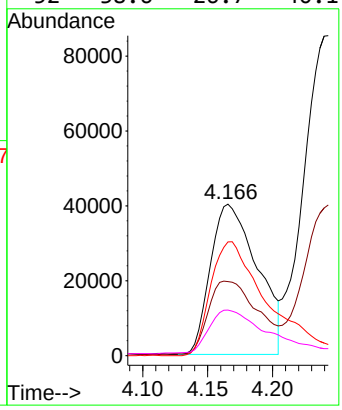


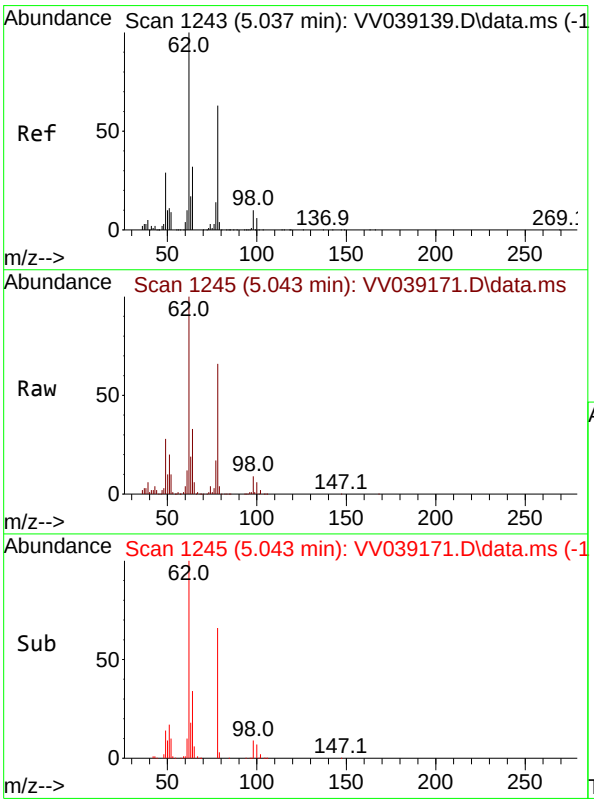

#41
Methacrylonitrile
Concen: 18.119 ug/l
RT: 4.166 min Scan# 9
Delta R.T. 0.013 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion: 41 Resp: 101017

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 51.1 | 42.2 | 63.2 |
| 67 | 94.9 | 67.9 | 101.9 |
| 52 | 38.6 | 26.7 | 40.1 |

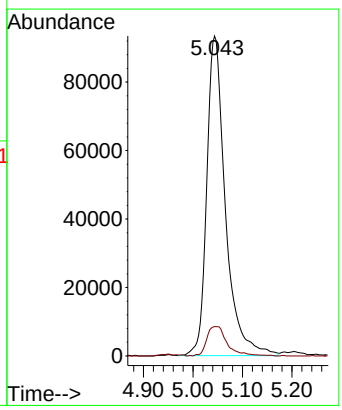


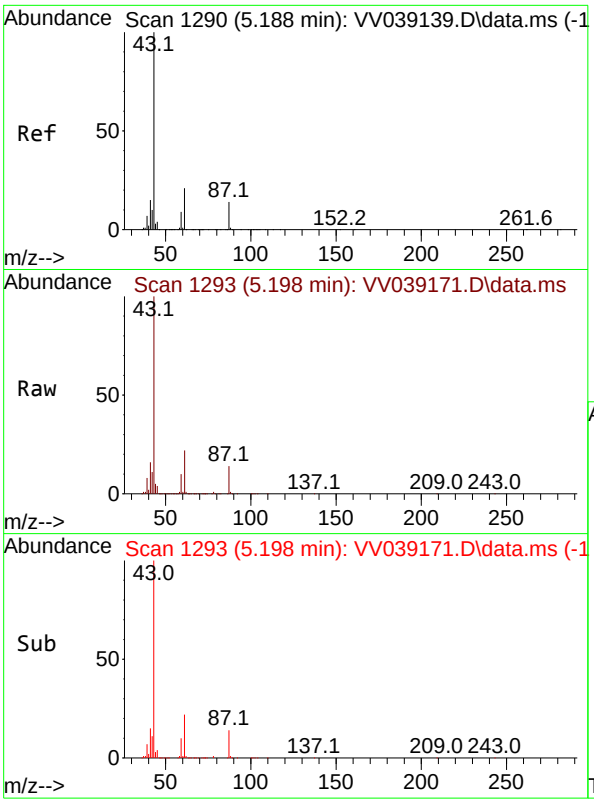




#42
1,2-Dichloroethane
Concen: 19.562 ug/l
RT: 5.043 min Scan# 1245
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 62 Resp: 243861

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.1 | 0.0 | 19.2 |



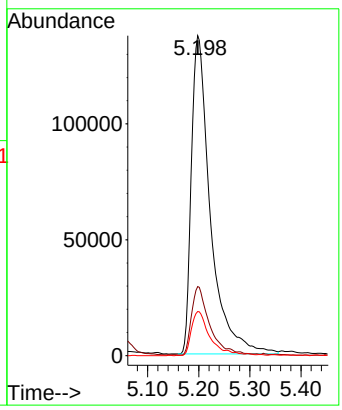


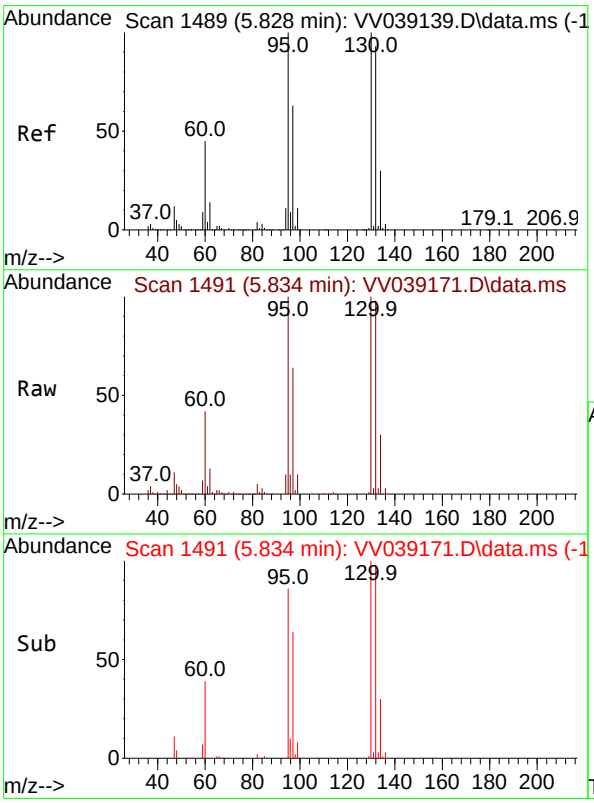

#43
Isopropyl Acetate
Concen: 19.627 ug/l
RT: 5.198 min Scan# 1
Delta R.T. 0.010 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion: 43 Resp: 354785

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 20.6 | 15.9 | 23.9 |
| 87 | 13.4 | 11.0 | 16.6 |

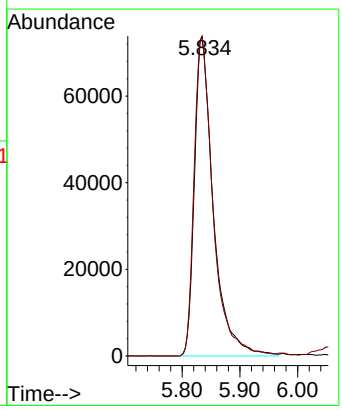


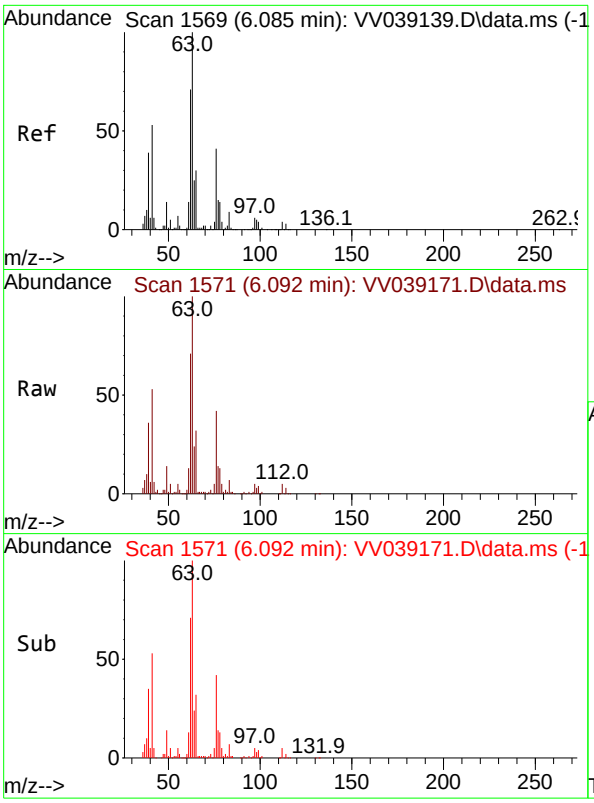




#44
Trichloroethene
Concen: 20.352 ug/l
RT: 5.834 min Scan# 1491
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion:130 Resp: 167082

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 100.4 | 0.0 | 199.2 |



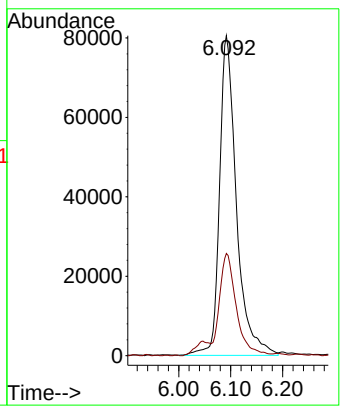


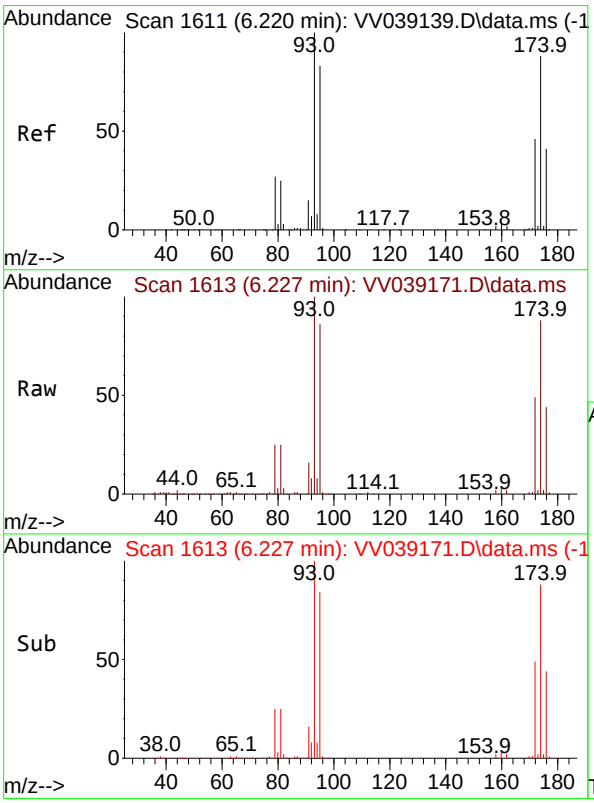

#45
1,2-Dichloropropane
Concen: 20.511 ug/l
RT: 6.092 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion: 63 Resp: 181382

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.8 | 23.7 | 35.5 |

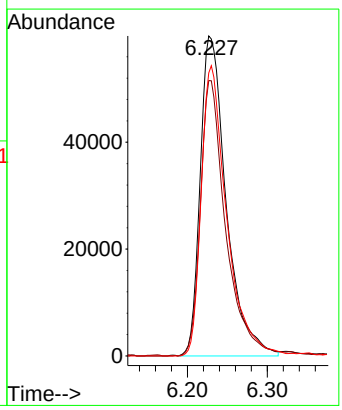


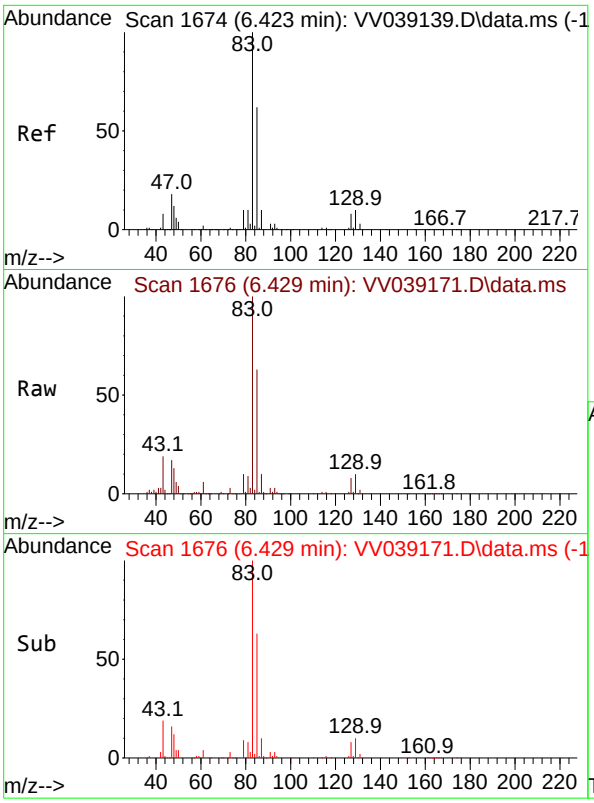




#46
Dibromomethane
Concen: 20.031 ug/l
RT: 6.227 min Scan# 1613
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 93 Resp: 135579

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 83.5 | 65.5 | 98.3 |
| 174 | 88.9 | 69.0 | 103.4 |



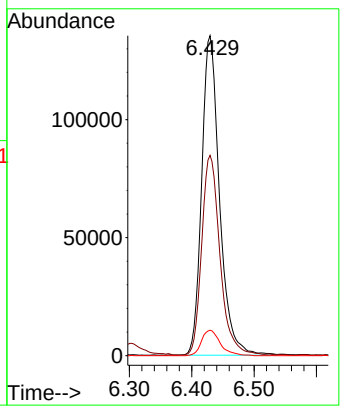


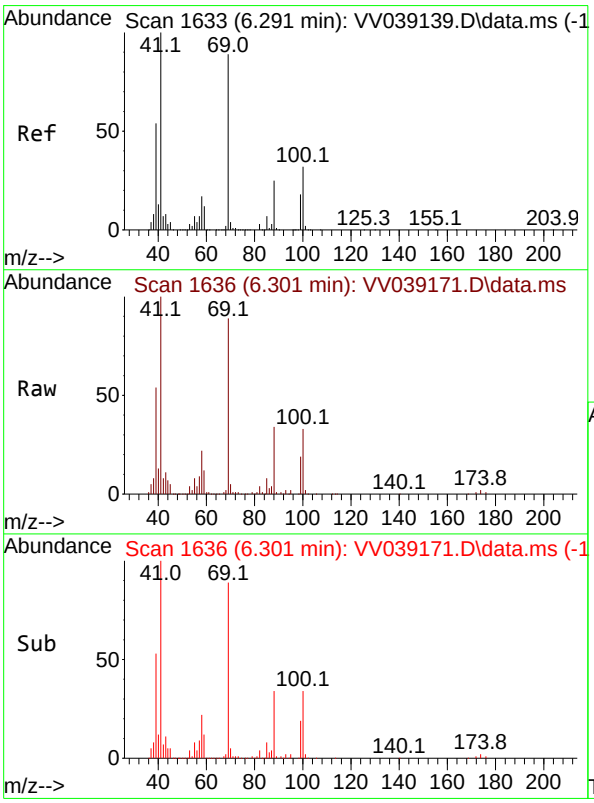

#47
Bromodichloromethane
Concen: 19.295 ug/l
RT: 6.429 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion: 83 Resp: 269985

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.4 | 49.7 | 74.5 |
| 127 | 8.0 | 6.6 | 9.8 |

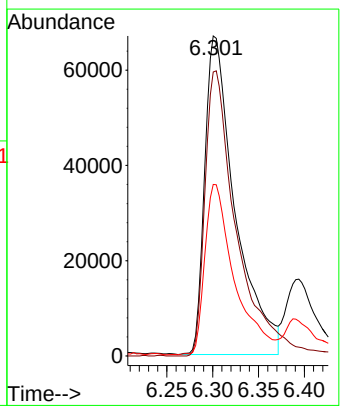


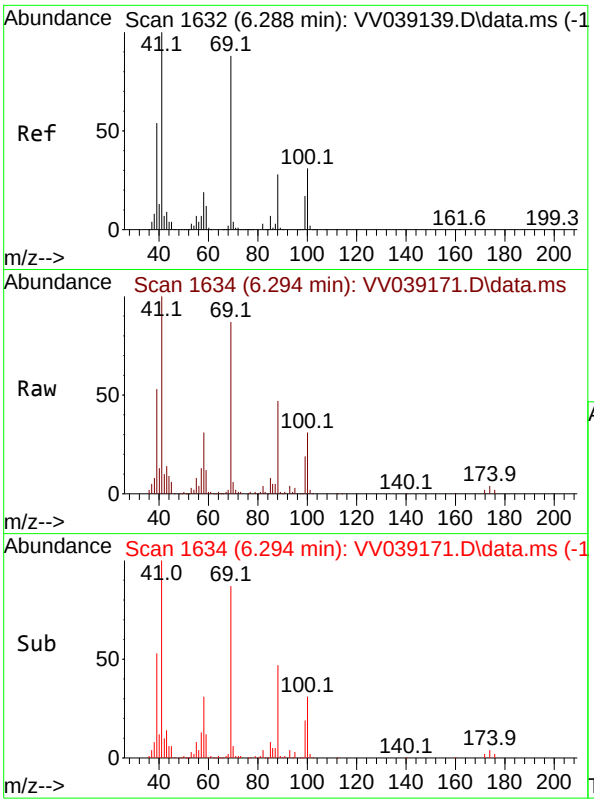




#48
Methyl methacrylate
Concen: 18.869 ug/l
RT: 6.301 min Scan# 1636
Delta R.T. 0.010 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 41 Resp: 154615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 93.7 | 72.4 | 108.6 |
| 39 | 51.9 | 42.5 | 63.7 |



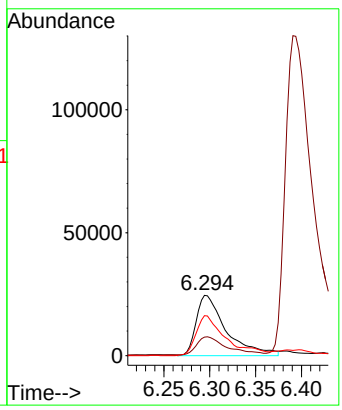


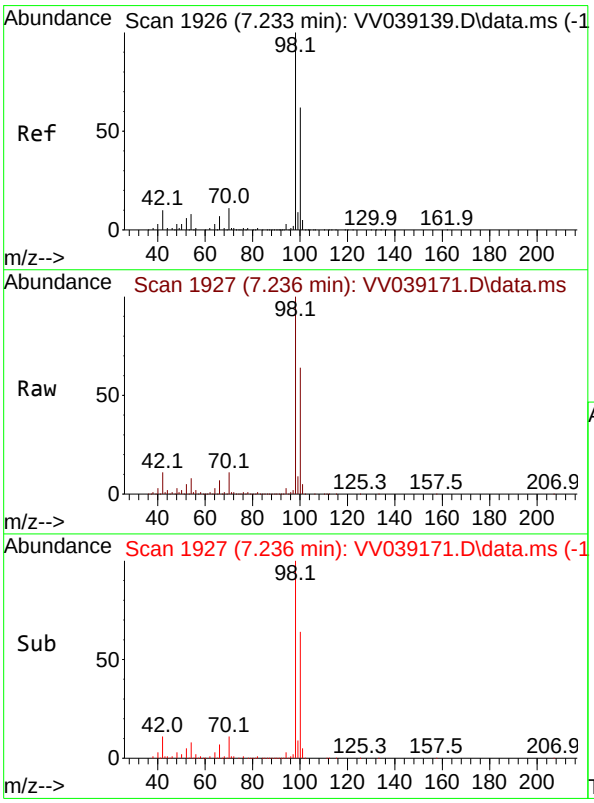

#49
1,4-Dioxane
Concen: 422.109 ug/l
RT: 6.294 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion: 88 Resp: 55817

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 29.5 | 25.1 | 37.7 |
| 58 | 66.2 | 53.6 | 80.4 |

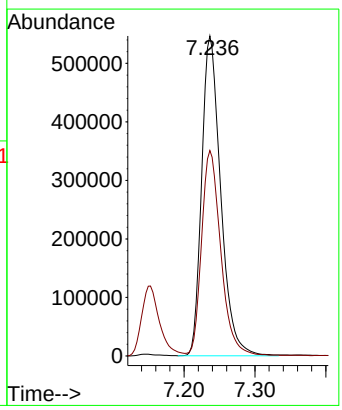


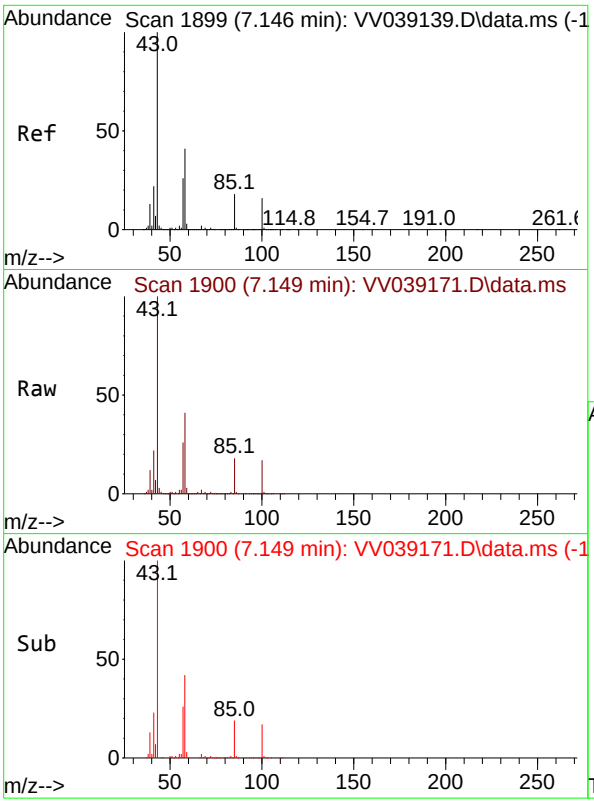




#50
Toluene-d8
Concen: 47.939 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 98 Resp: 1017460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.8 | 52.2 | 78.2 |



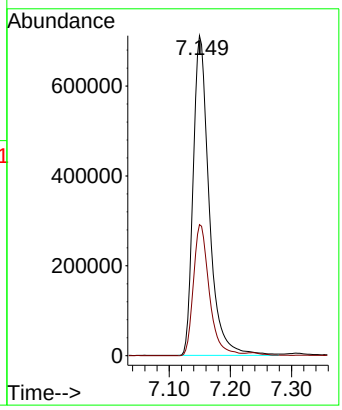


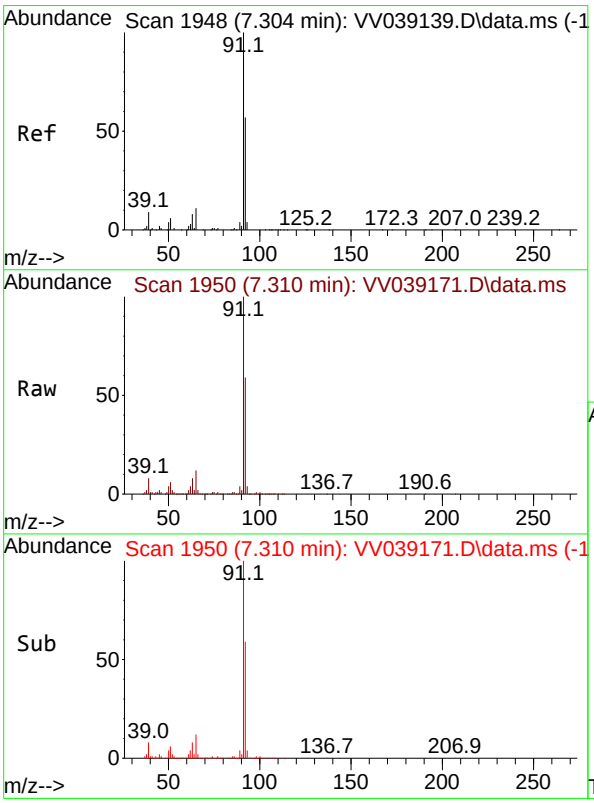

#51
4-Methyl-2-Pentanone
Concen: 108.921 ug/l
RT: 7.149 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion: 43 Resp: 1295291

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 40.8 | 32.3 | 48.5 |

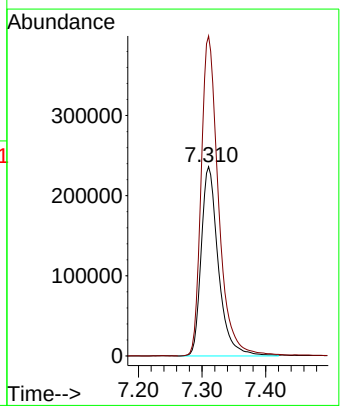


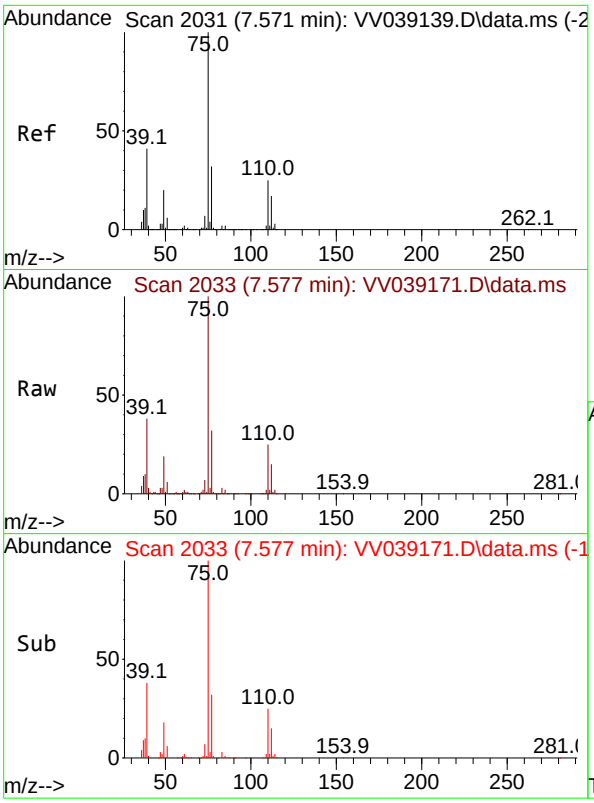




#52
Toluene
Concen: 21.474 ug/l
RT: 7.310 min Scan# 1950
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 92 Resp: 442966

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 171.6 | 139.2 | 208.8 |



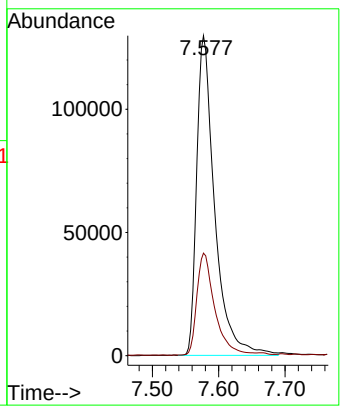


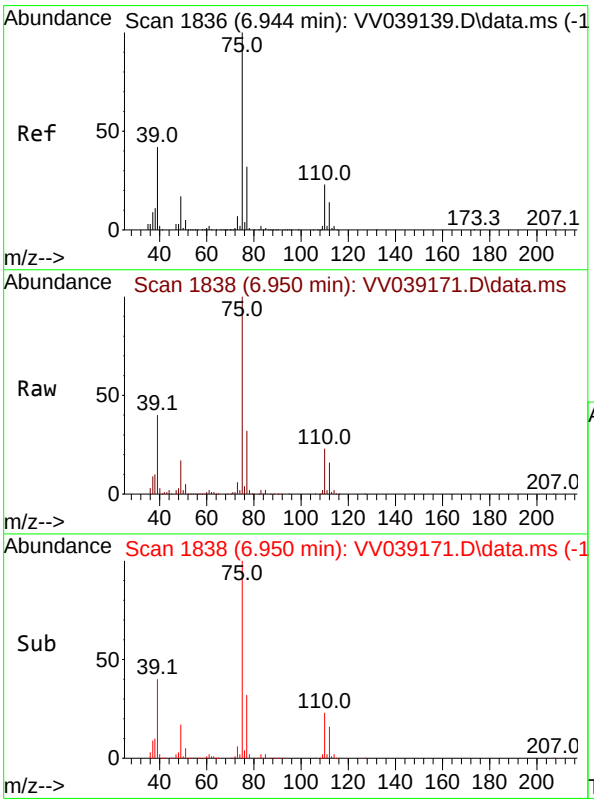

#53
t-1,3-Dichloropropene
Concen: 20.052 ug/l
RT: 7.577 min Scan# 2
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion: 75 Resp: 244520

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.9 | 25.9 | 38.9 |

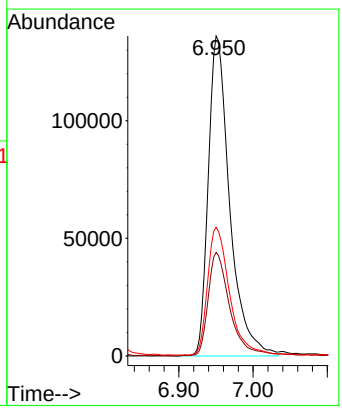


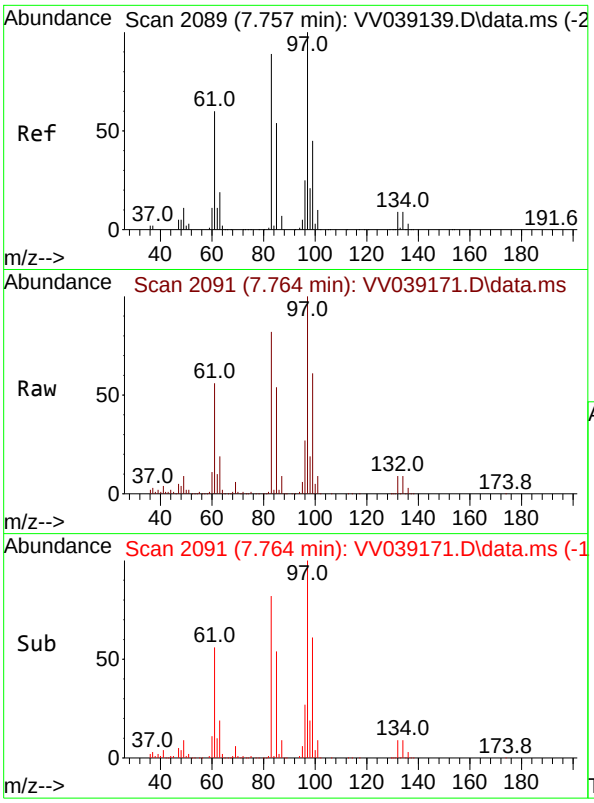




#54
cis-1,3-Dichloropropene
Concen: 20.249 ug/l
RT: 6.950 min Scan# 1838
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 75 Resp: 272587

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.3 | 25.5 | 38.3 |
| 39 | 39.9 | 33.8 | 50.6 |



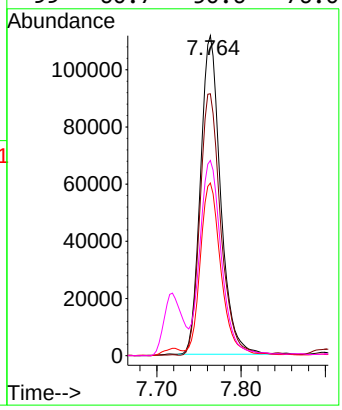


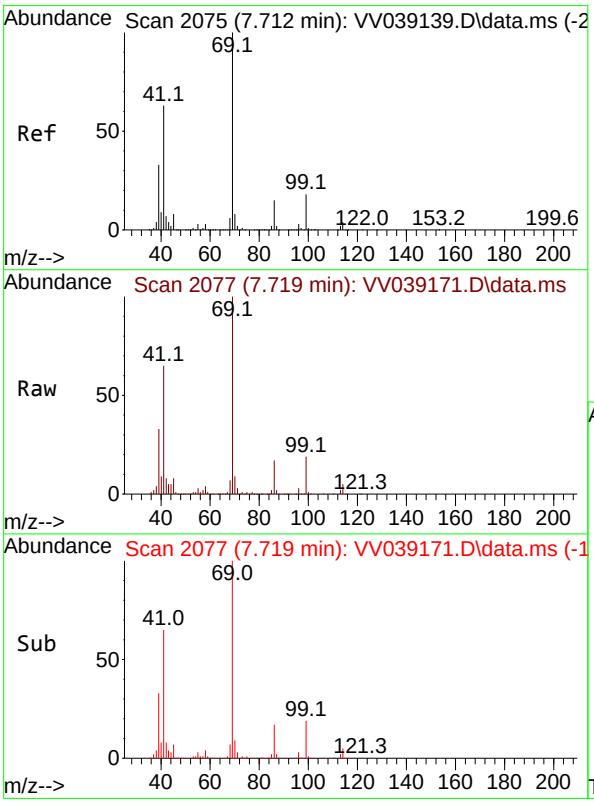

#55
1,1,2-Trichloroethane
Concen: 19.997 ug/l
RT: 7.764 min Scan# 2
Delta R.T. 0.007 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion: 97 Resp: 184964

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 82.1 | 71.1 | 106.7 |
| 85 | 53.8 | 44.6 | 67.0 |
| 99 | 60.7 | 50.6 | 76.0 |

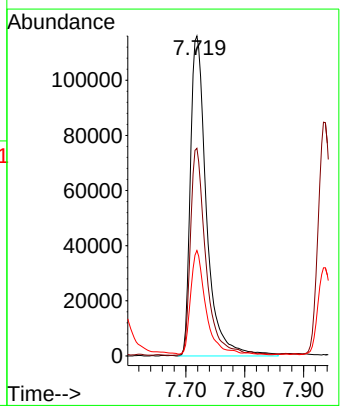


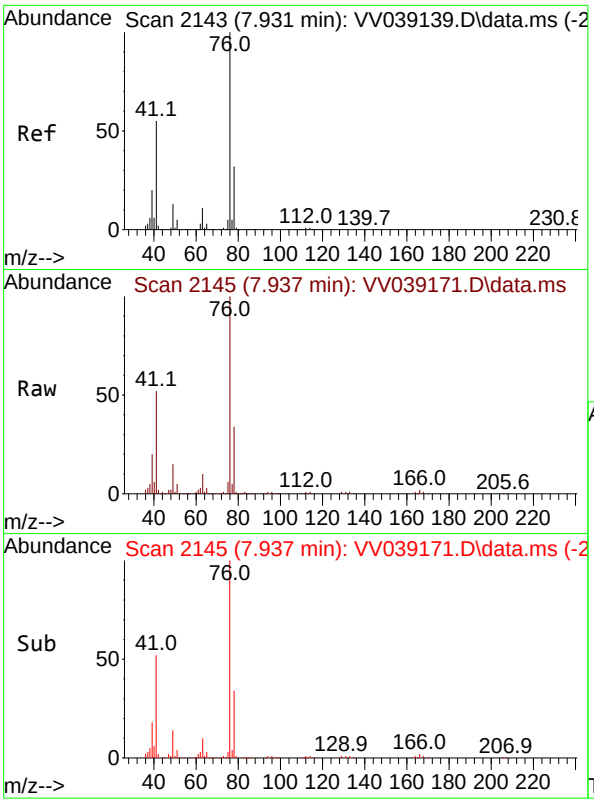




#56
Ethyl methacrylate
Concen: 20.096 ug/l
RT: 7.719 min Scan# 2077
Delta R.T. 0.007 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 69 Resp: 220741

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 61.7 | 50.7 | 76.1 |
| 39 | 30.2 | 26.0 | 39.0 |



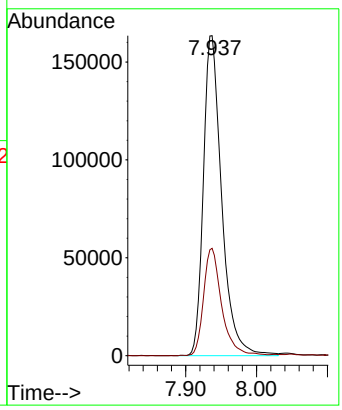


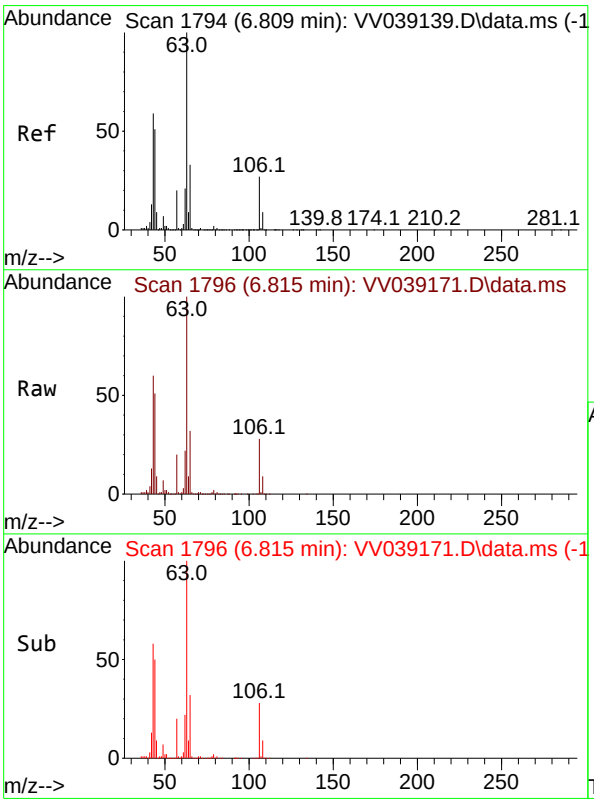

#57
1,3-Dichloropropane
Concen: 20.102 ug/l
RT: 7.937 min Scan# 21
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion: 76 Resp: 293432

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 33.2 | 26.1 | 39.1 |

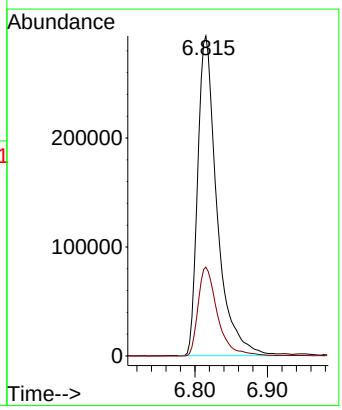


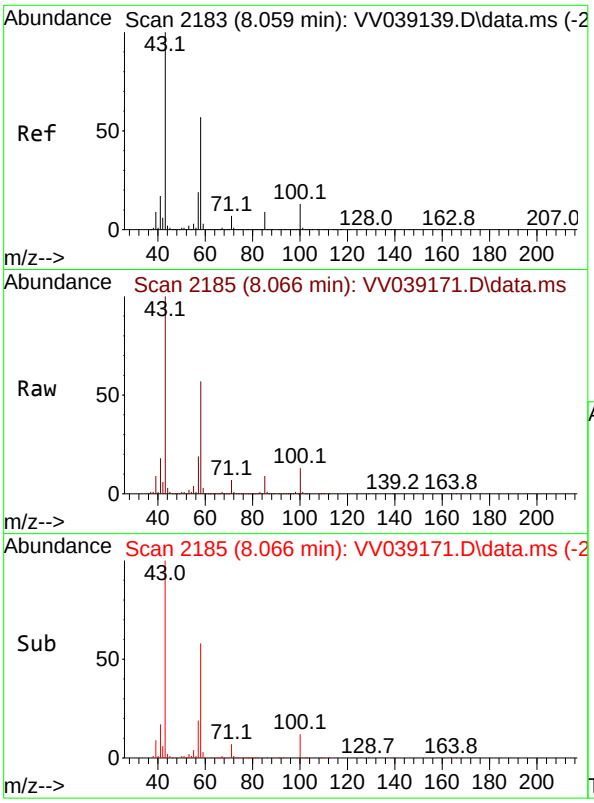




#58
2-Chloroethyl Vinyl ether
Concen: 93.599 ug/l
RT: 6.815 min Scan# 1796
Delta R.T. 0.006 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 63 Resp: 541689

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 28.0 | 22.1 | 33.1 |



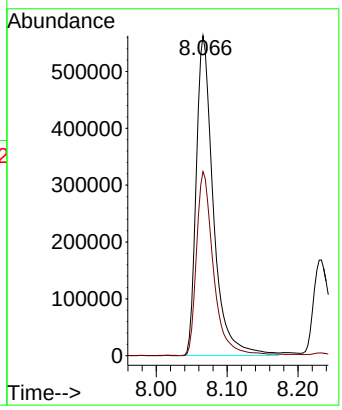


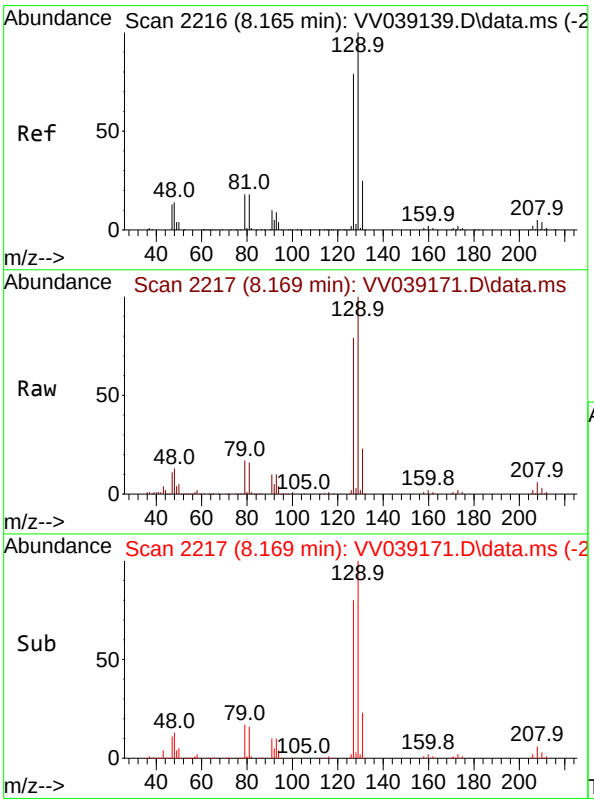

#59
2-Hexanone
Concen: 99.572 ug/l
RT: 8.066 min Scan# 21
Delta R.T. 0.007 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion: 43 Resp: 942254

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 57.6 | 28.3 | 85.0 |

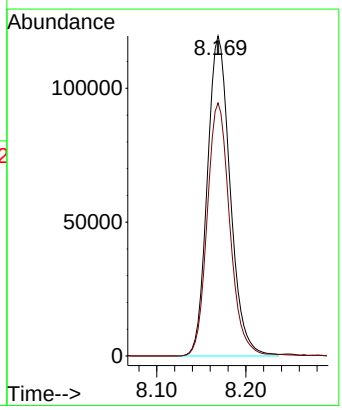


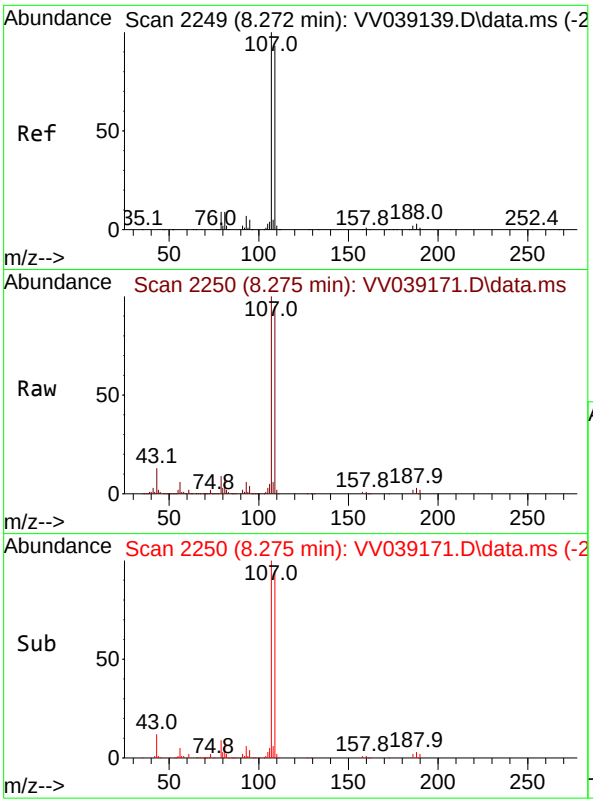




#60
Dibromochloromethane
Concen: 20.190 ug/l
RT: 8.169 min Scan# 2217
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion:129 Resp: 212792

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.5 | 39.3 | 117.9 |



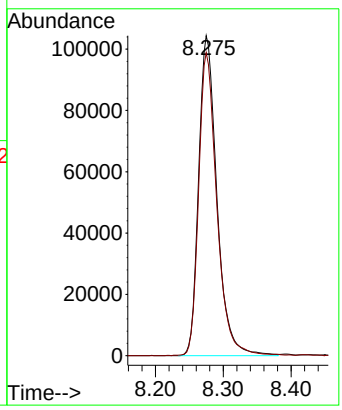


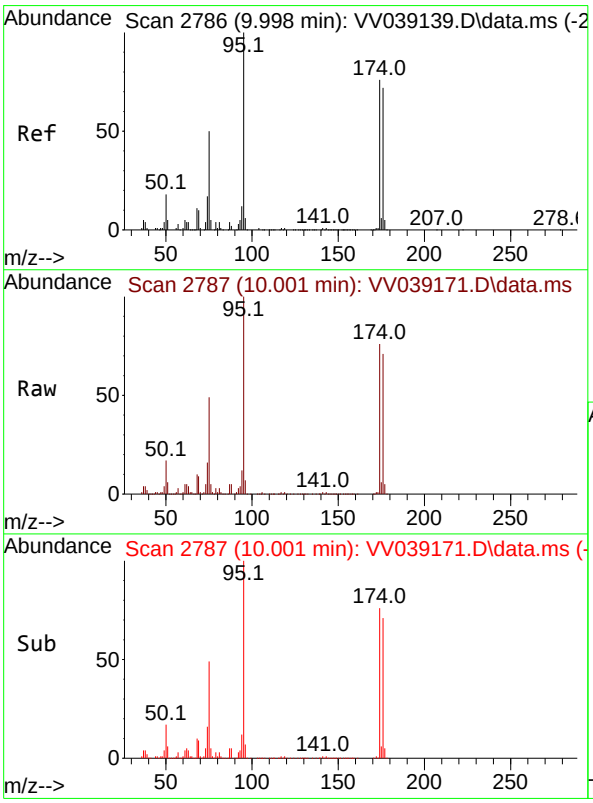

#61
1,2-Dibromoethane
Concen: 20.631 ug/l
RT: 8.275 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion:107 Resp: 195149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.1 | 74.6 | 112.0 |

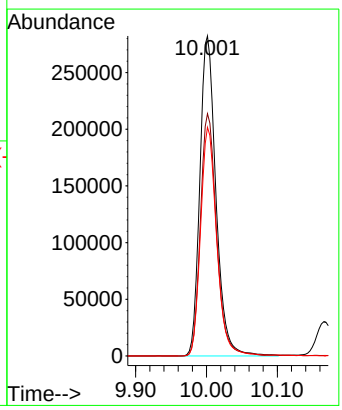


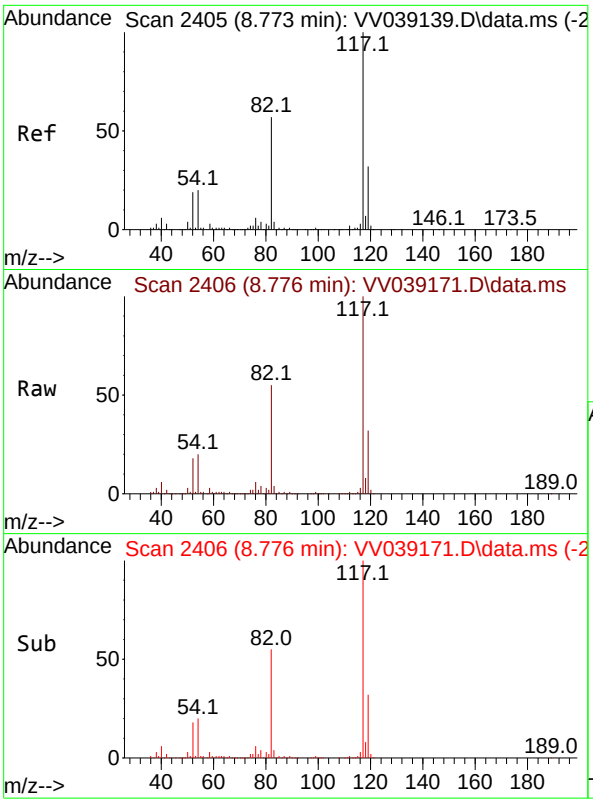




#62
4-Bromofluorobenzene
Concen: 51.168 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 95 Resp: 447073

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 75.8 | 0.0 | 150.4 |
| 176 | 71.5 | 0.0 | 144.2 |



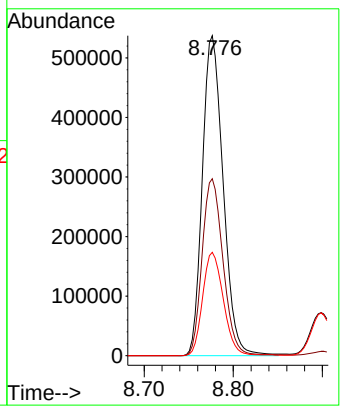


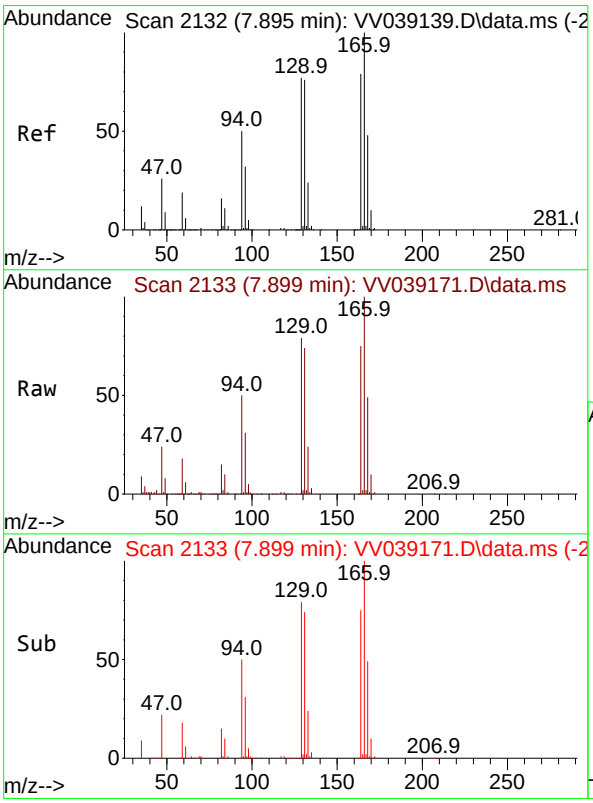

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion:117 Resp: 871912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 55.3 | 45.4 | 68.2 |
| 119 | 32.3 | 25.6 | 38.4 |

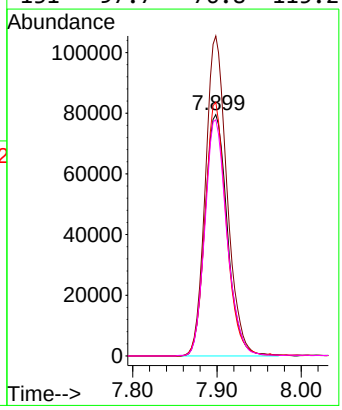


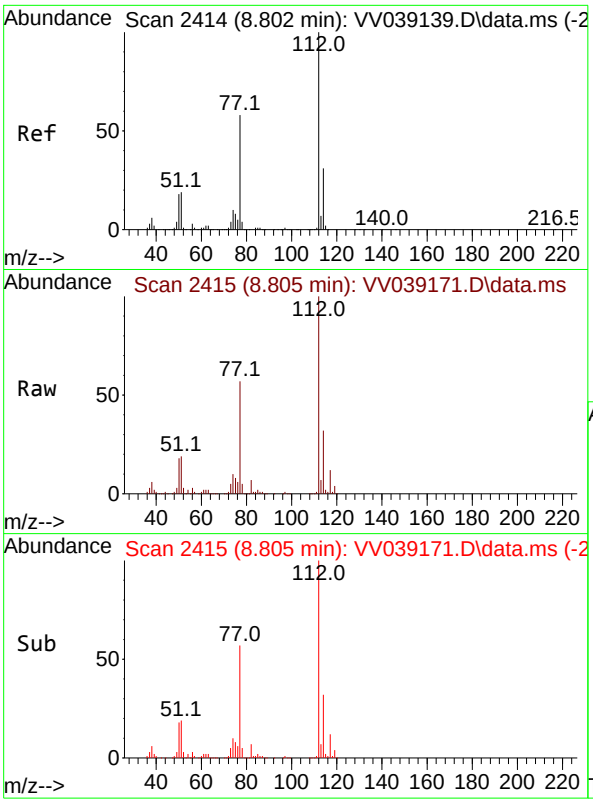




#64
Tetrachloroethene
Concen: 20.157 ug/l
RT: 7.899 min Scan# 2133
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion:164 Resp: 147205

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 132.6 | 101.6 | 152.4 |
| 129 | 105.2 | 78.5 | 117.7 |
| 131 | 97.7 | 76.8 | 115.2 |



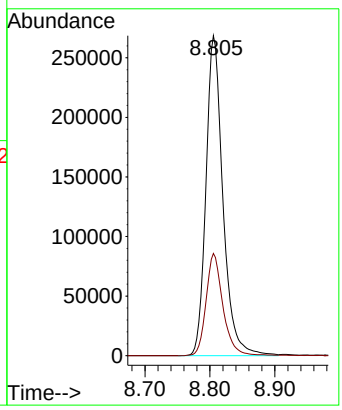


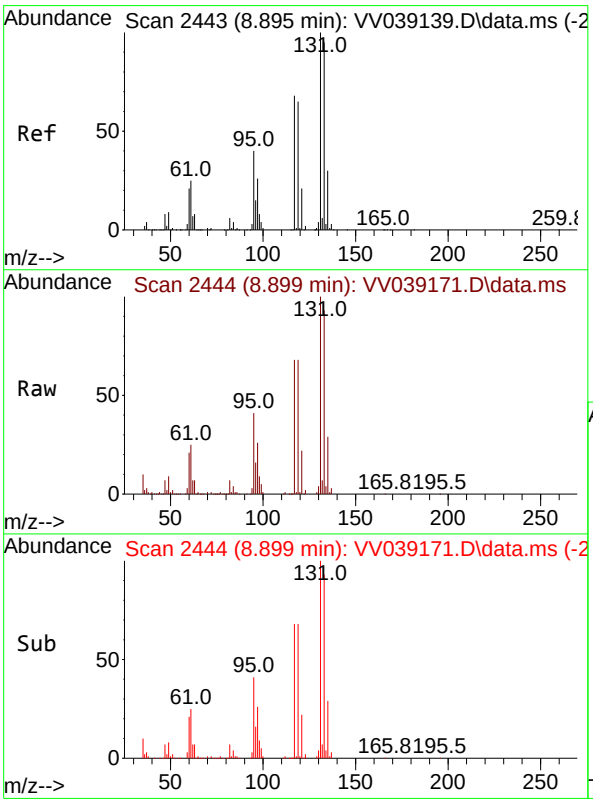

#65
Chlorobenzene
Concen: 20.108 ug/l
RT: 8.805 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion:112 Resp: 488359

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.0 | 24.6 | 37.0 |

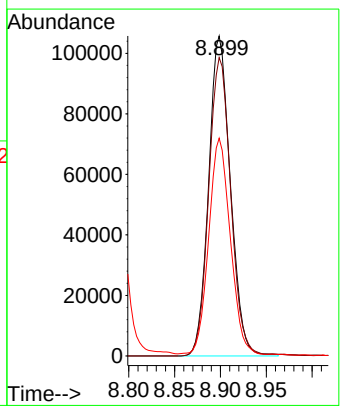


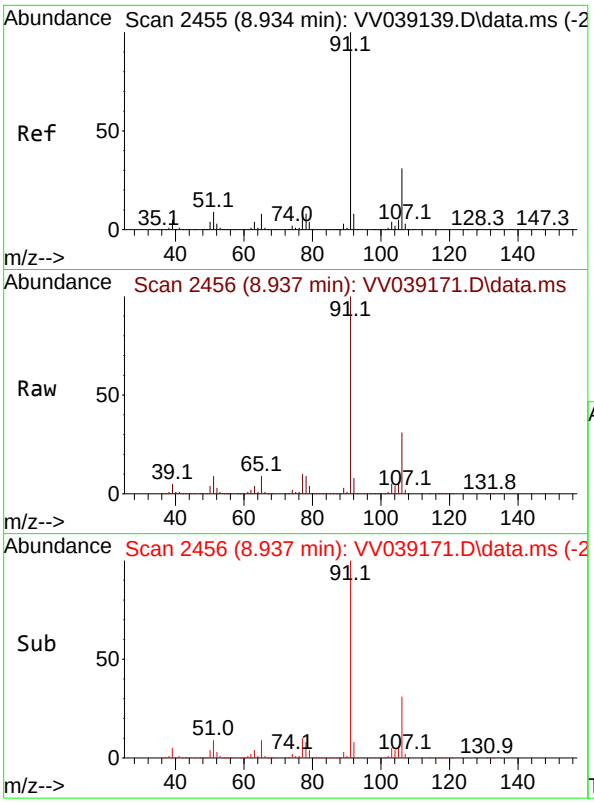




#66
1,1,1,2-Tetrachloroethane
Concen: 19.902 ug/l
RT: 8.899 min Scan# 2444
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion:131 Resp: 174648

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.4 | 47.3 | 141.8 |
| 119 | 67.1 | 33.3 | 99.8 |



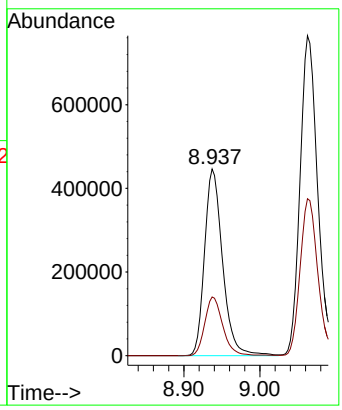


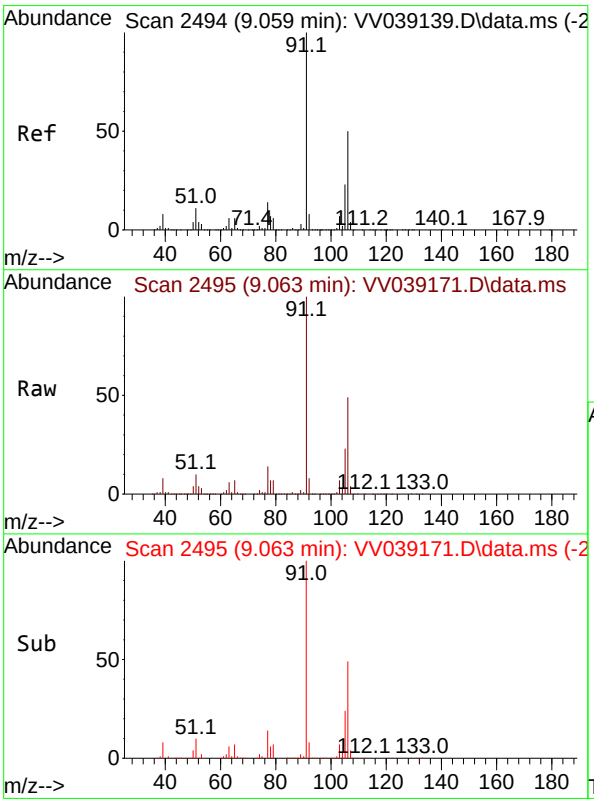

#67
Ethyl Benzene
Concen: 20.032 ug/l
RT: 8.937 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion: 91 Resp: 736424

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.5 | 24.6 | 37.0 |

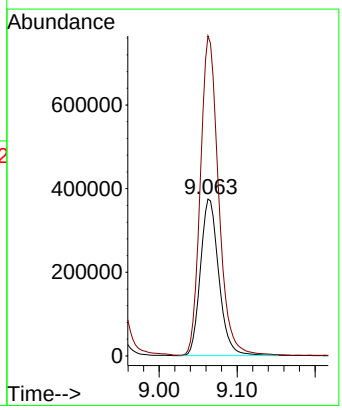


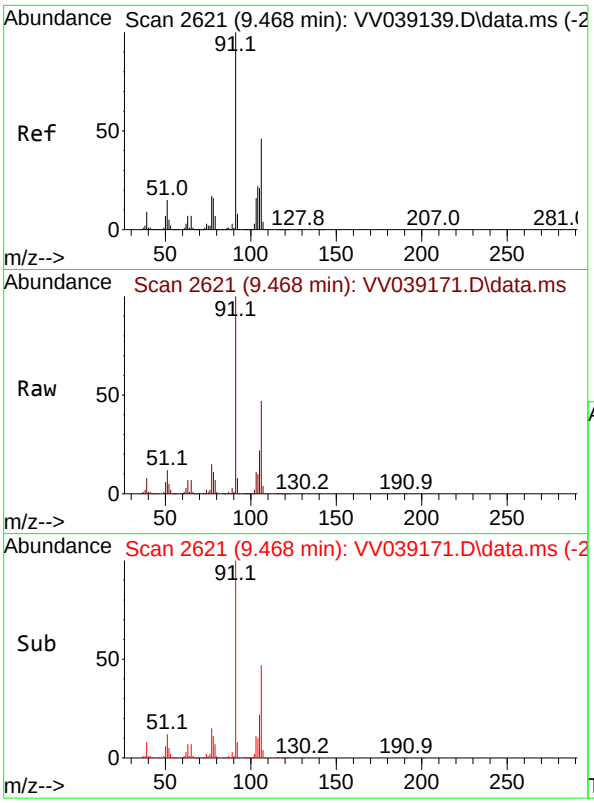




#68
m/p-Xylenes
Concen: 43.097 ug/l
RT: 9.063 min Scan# 2495
Delta R.T. 0.004 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion:106 Resp: 611502

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 203.3 | 162.5 | 243.7 |



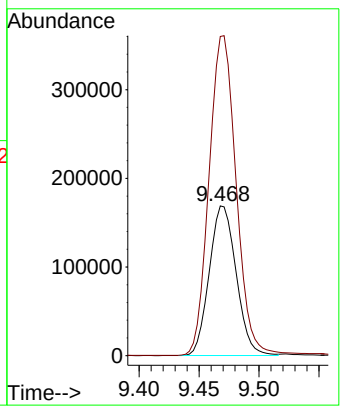


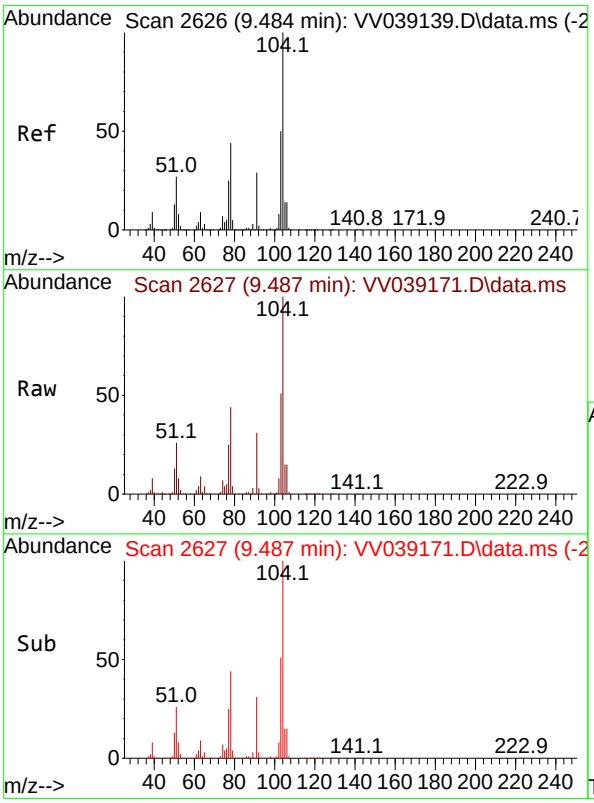

#69
o-Xylene
Concen: 20.955 ug/l
RT: 9.468 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion:106 Resp: 263271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 217.2 | 109.1 | 327.3 |

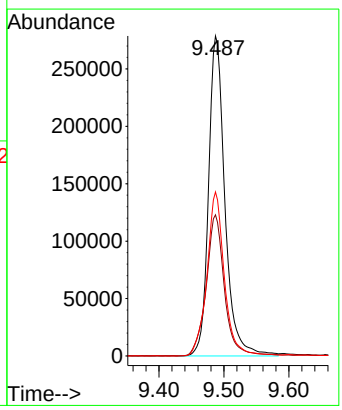


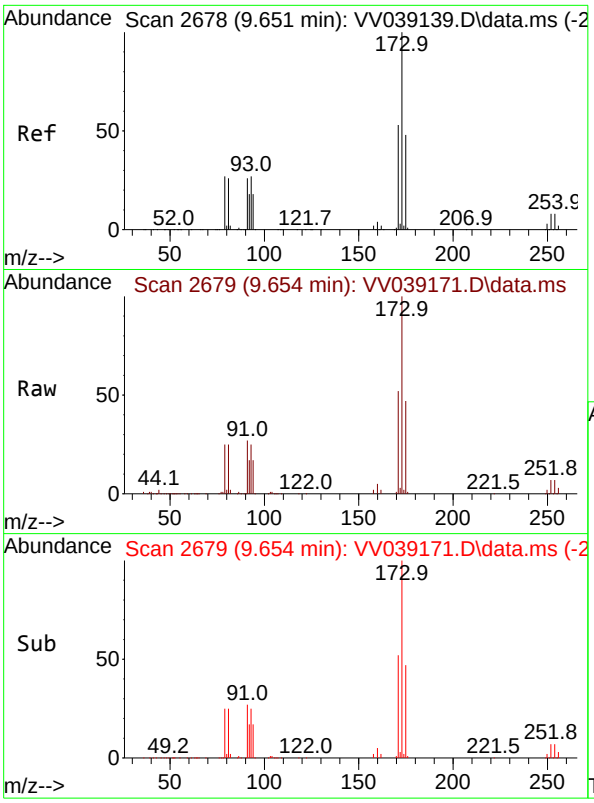




#70
Styrene
Concen: 19.311 ug/l
RT: 9.487 min Scan# 2627
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion:104 Resp: 489732

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 48.8 | 39.8 | 59.6 |
| 103 | 54.6 | 43.4 | 65.2 |



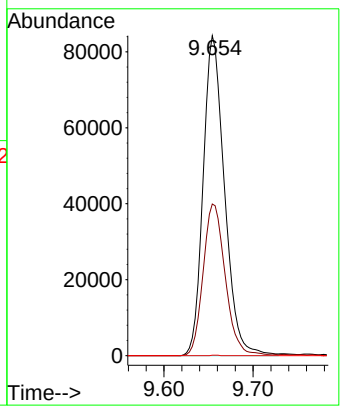


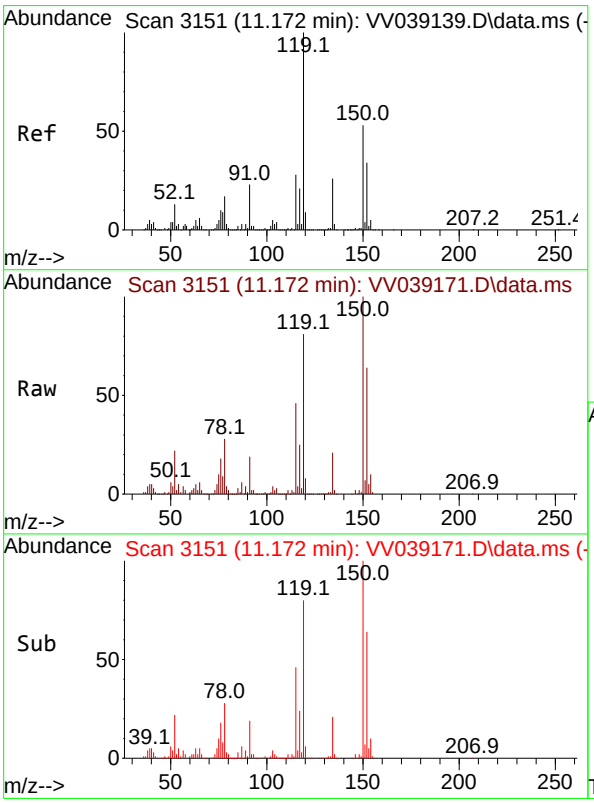

#71
Bromoform
Concen: 20.466 ug/l
RT: 9.654 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion:173 Resp: 140287

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.9 | 23.9 | 71.7 |
| 254 | 0.1 | 0.1 | 0.1# |

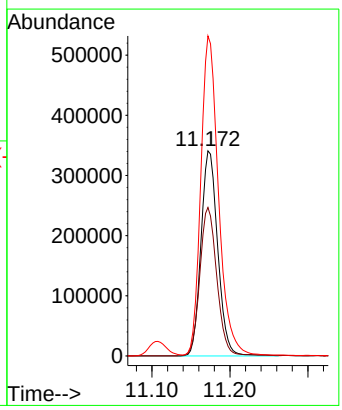


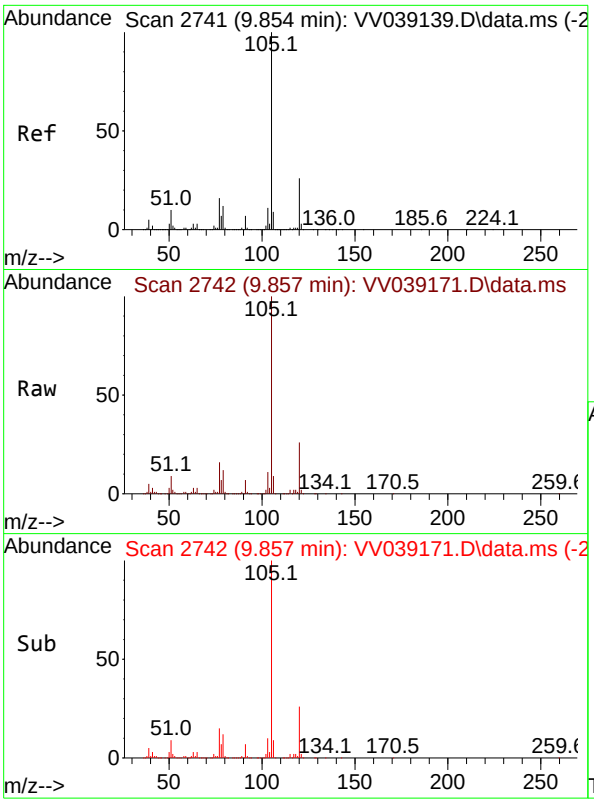




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion:152 Resp: 508947

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 73.3 | 44.8 | 134.4 |
| 150 | 163.9 | 0.0 | 353.8 |



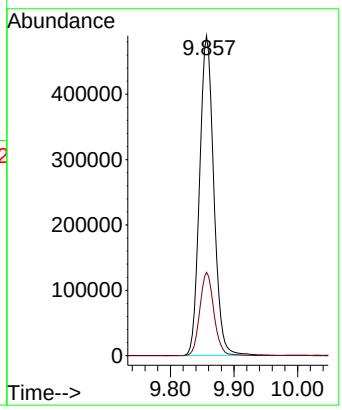


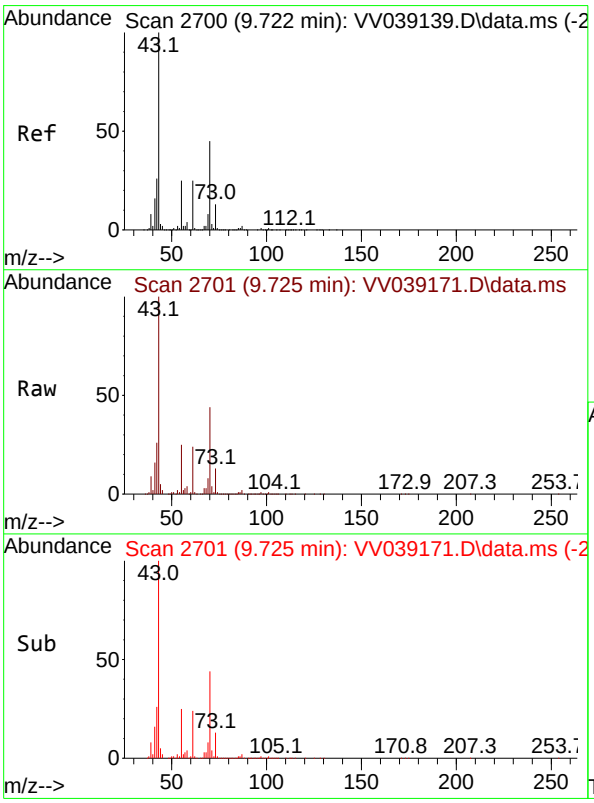

#73
Isopropylbenzene
Concen: 20.575 ug/l
RT: 9.857 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion:105 Resp: 759505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.0 | 13.1 | 39.1 |

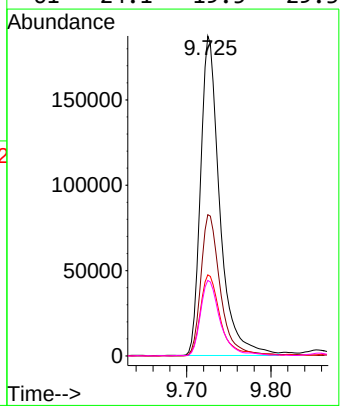


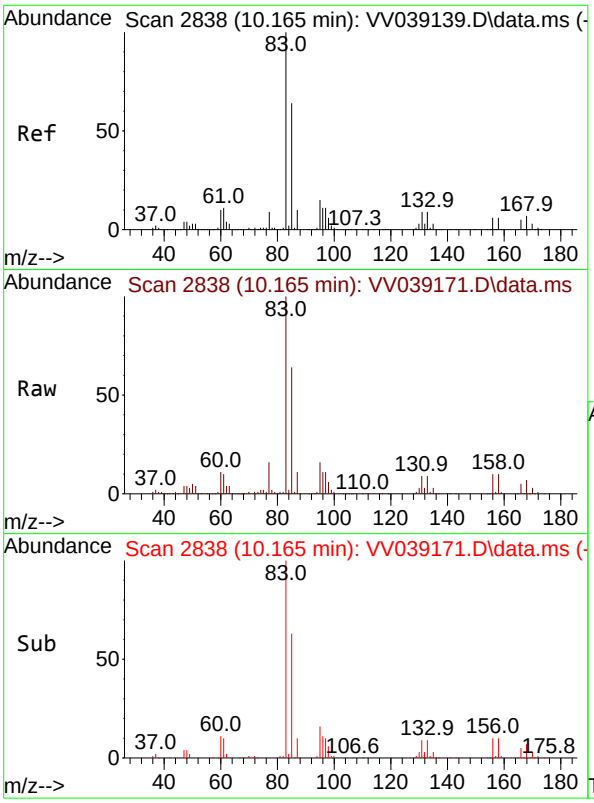




#74
N-amyl acetate
Concen: 20.188 ug/l
RT: 9.725 min Scan# 2701
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 43 Resp: 297254

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 45.3 | 35.4 | 53.0 |
| 55 | 26.7 | 20.6 | 30.8 |
| 61 | 24.1 | 19.5 | 29.3 |



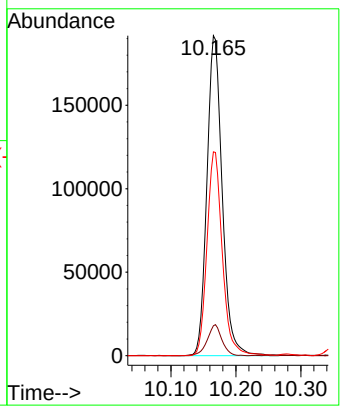


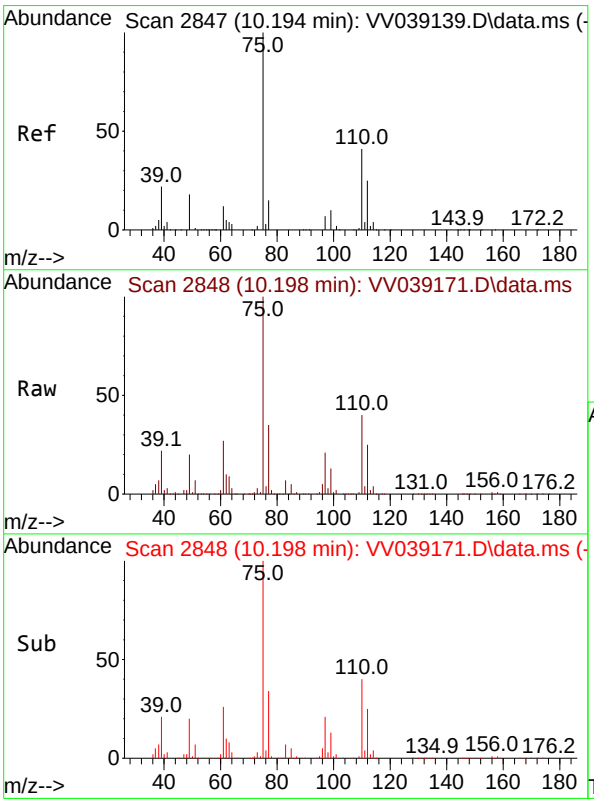

#75
1,1,2,2-Tetrachloroethane
Concen: 19.402 ug/l
RT: 10.165 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion: 83 Resp: 313809

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.3 | 4.5 | 13.7 |
| 85 | 64.0 | 31.9 | 95.9 |

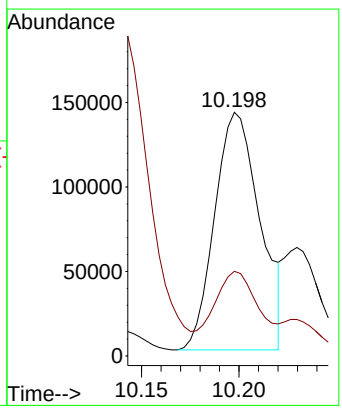


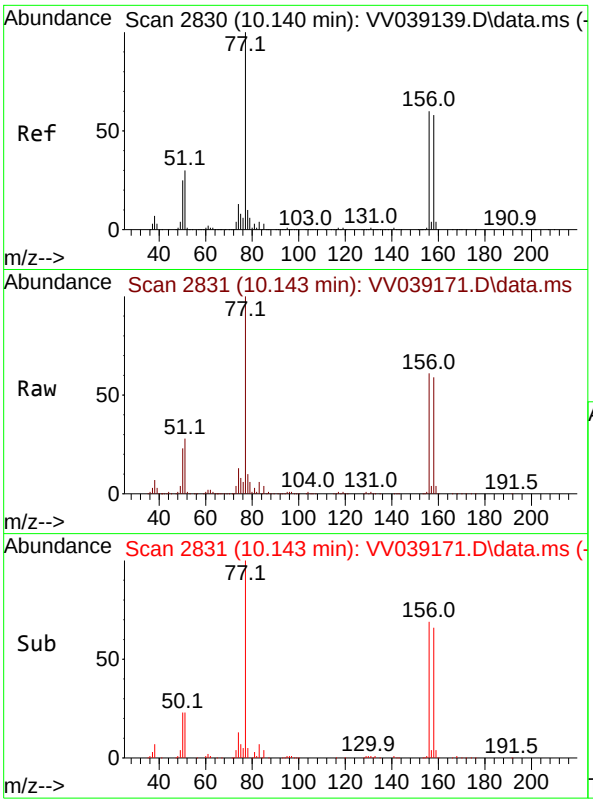




#76
1,2,3-Trichloropropane
Concen: 19.665 ug/l
RT: 10.198 min Scan# 2848
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 75 Resp: 227880

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 21.6 | 11.3 | 33.8 |



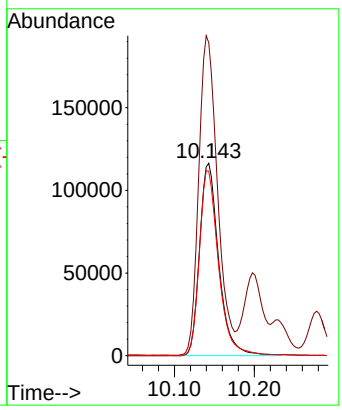


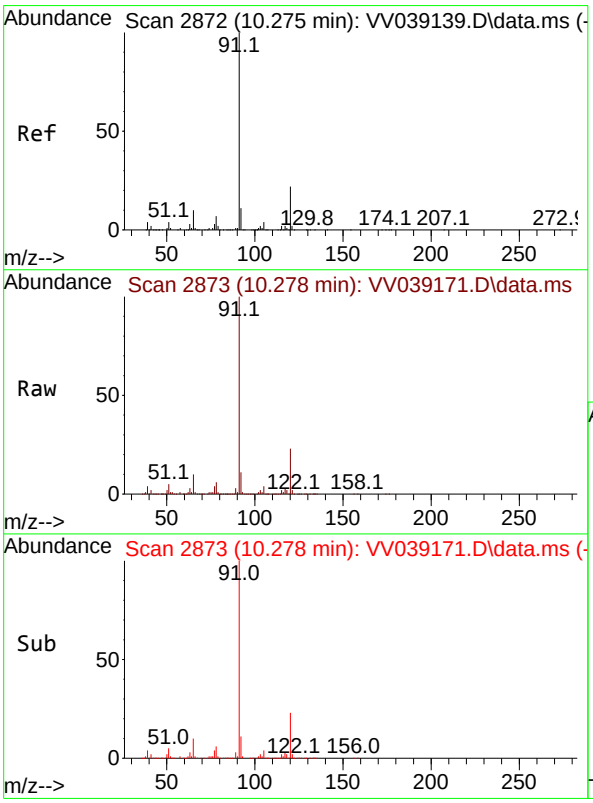

#77
Bromobenzene
Concen: 20.272 ug/l
RT: 10.143 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion:156 Resp: 194148

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 162.2 | 83.4 | 250.1 |
| 158 | 96.4 | 48.8 | 146.4 |

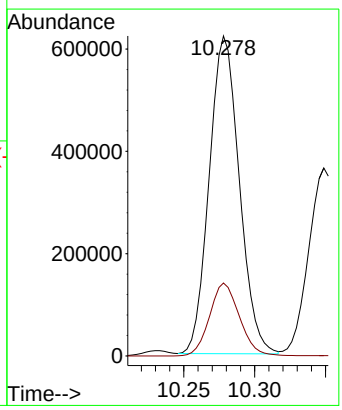


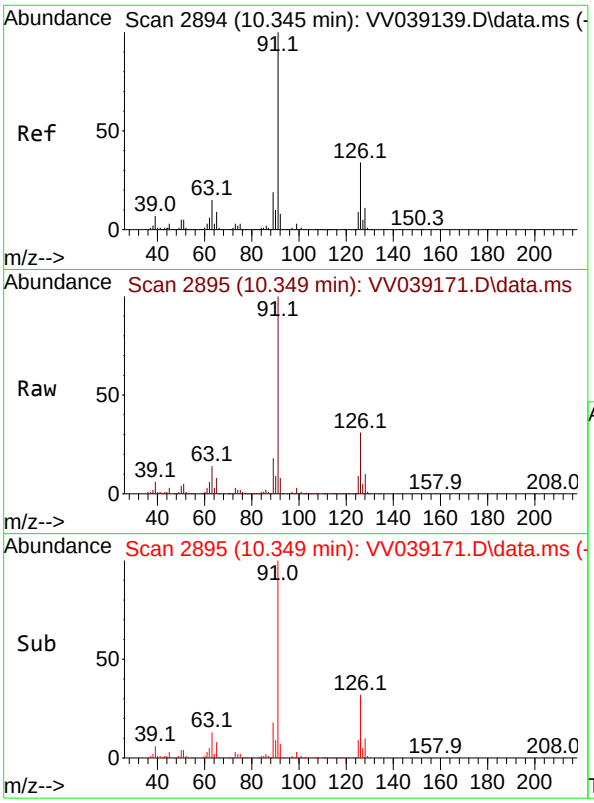




#78
n-propylbenzene
Concen: 20.420 ug/l
RT: 10.278 min Scan# 2873
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 91 Resp: 917928

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.9 | 11.1 | 33.3 |



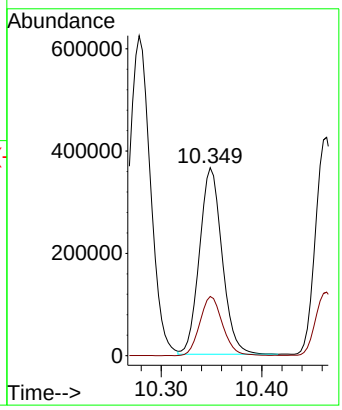


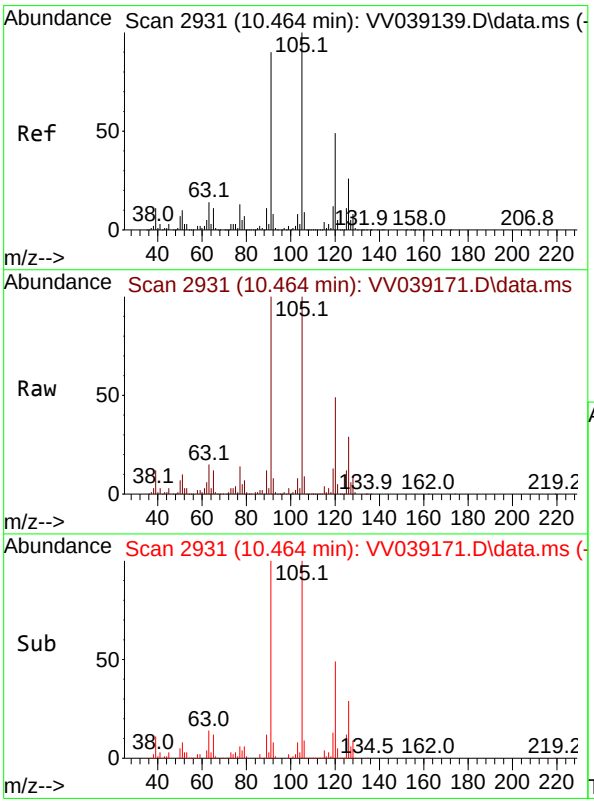

#79
2-Chlorotoluene
Concen: 21.187 ug/l
RT: 10.349 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion: 91 Resp: 569887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.9 | 16.7 | 50.0 |

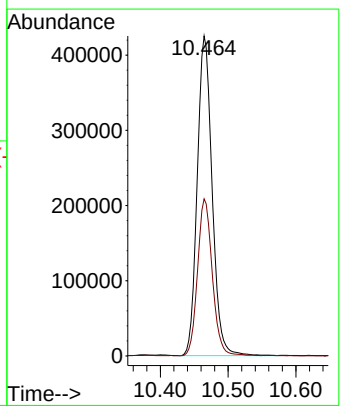


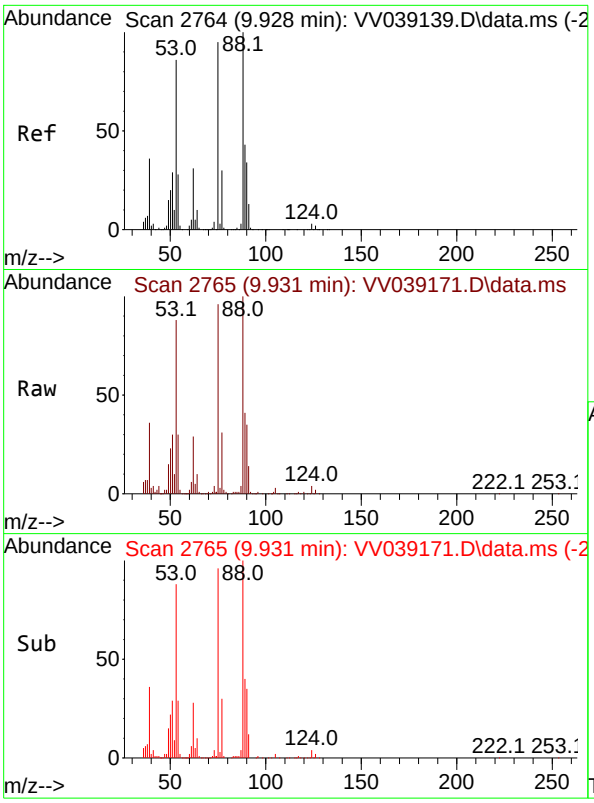




#80
1,3,5-Trimethylbenzene
Concen: 21.165 ug/l
RT: 10.464 min Scan# 2931
Delta R.T. -0.000 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion:105 Resp: 649406

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.5 | 24.3 | 72.8 |



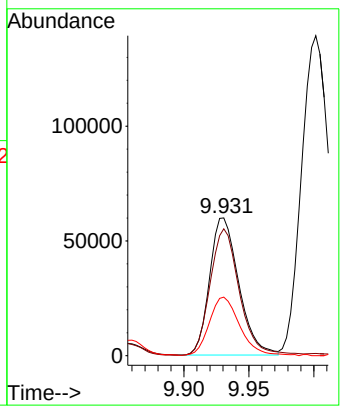


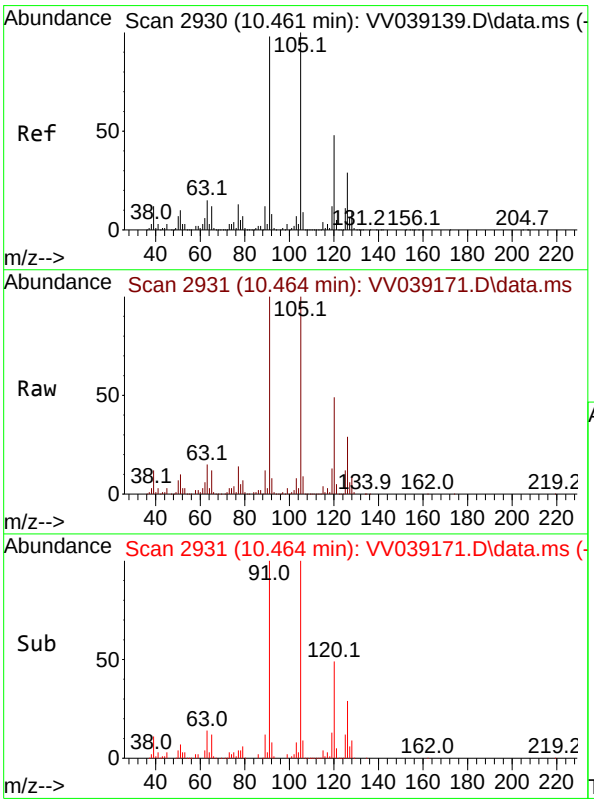

#81
trans-1,4-Dichloro-2-butene
Concen: 19.398 ug/l
RT: 9.931 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion: 75 Resp: 93631

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 92.0 | 72.5 | 108.7 |
| 89 | 44.7 | 37.2 | 55.8 |

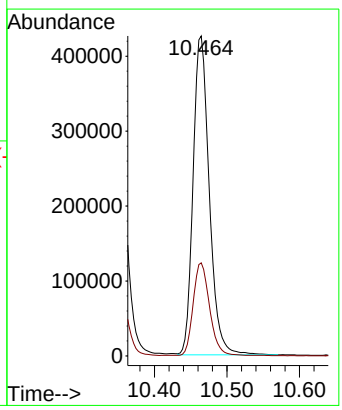


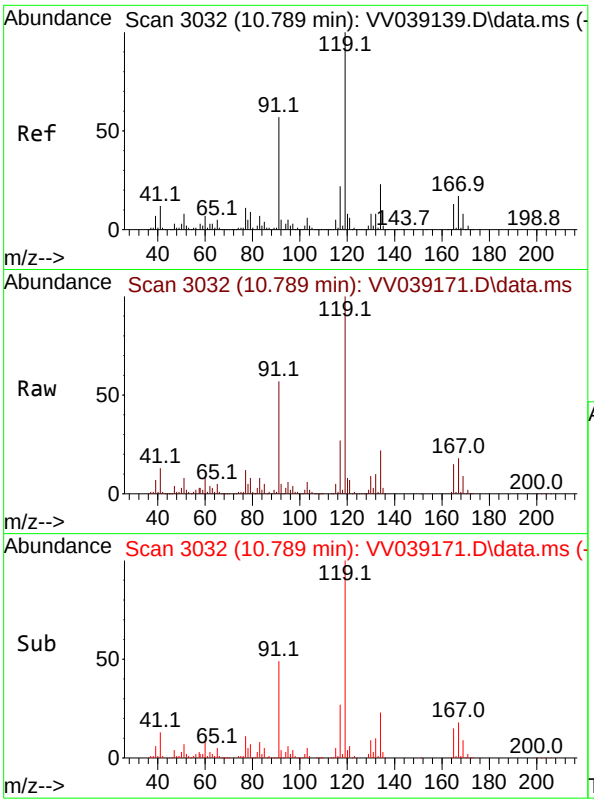




#82
4-Chlorotoluene
Concen: 21.124 ug/l
RT: 10.464 min Scan# 2931
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 91 Resp: 658860

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 29.2 | 14.5 | 43.6 |



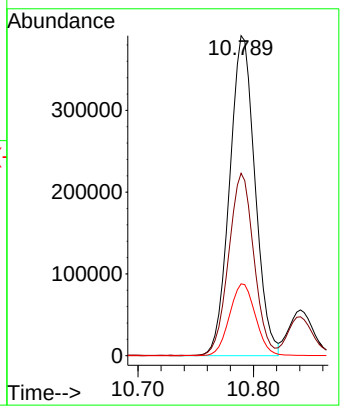


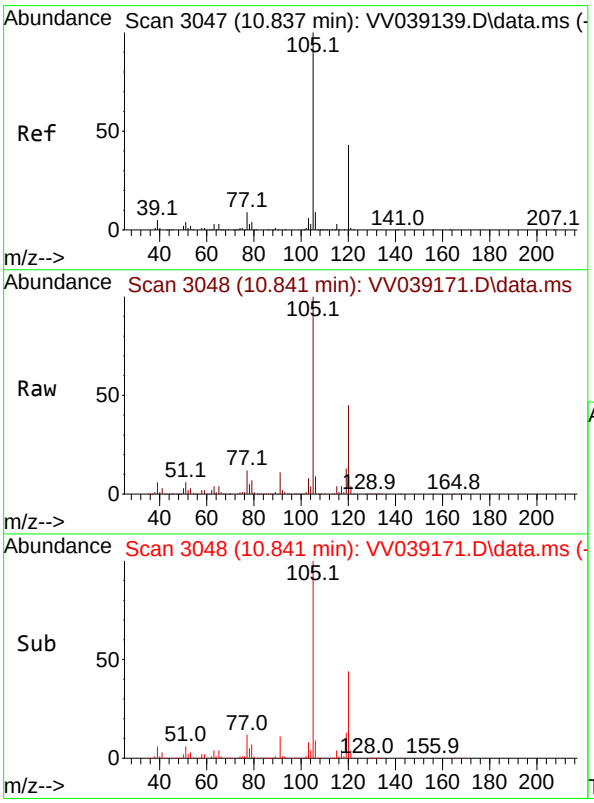

#83
tert-Butylbenzene
Concen: 19.587 ug/l
RT: 10.789 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion:119 Resp: 599275

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 56.4 | 28.5 | 85.6 |
| 134 | 23.0 | 11.5 | 34.4 |

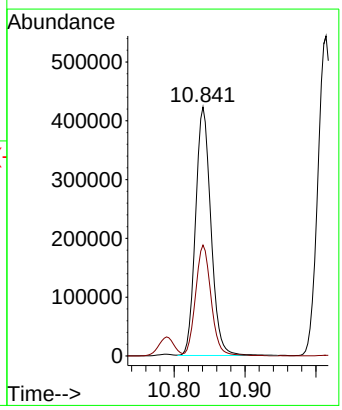


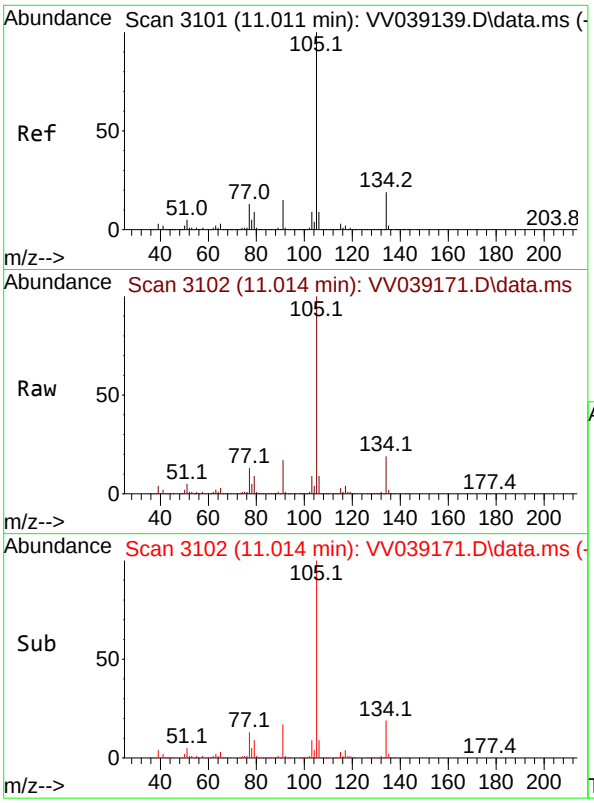




#84
1,2,4-Trimethylbenzene
Concen: 21.301 ug/l
RT: 10.841 min Scan# 3048
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion:105 Resp: 634517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.0 | 22.4 | 67.2 |



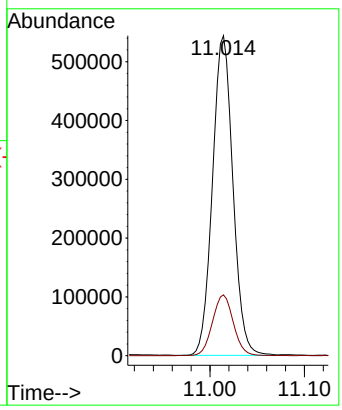


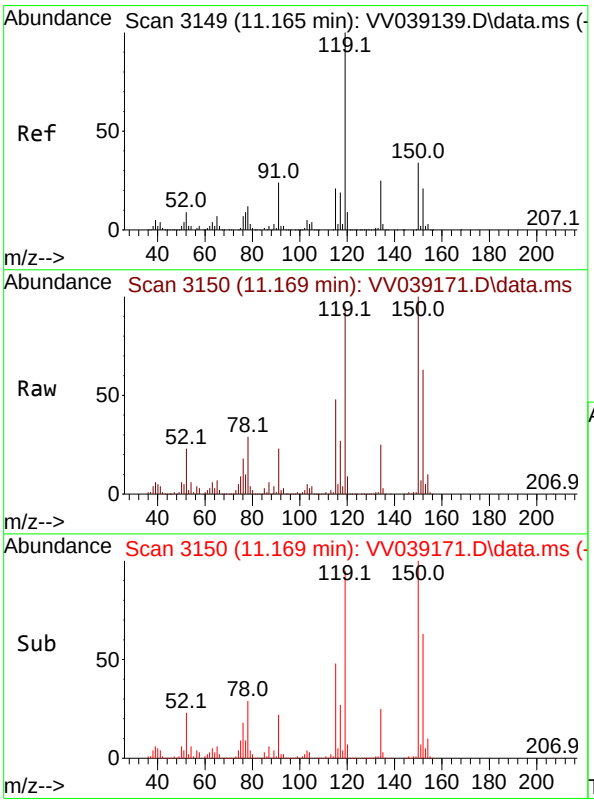

#85
sec-Butylbenzene
Concen: 20.078 ug/l
RT: 11.014 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion:105 Resp: 814764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.5 | 9.6 | 28.8 |

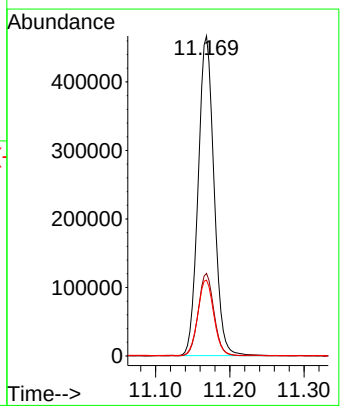


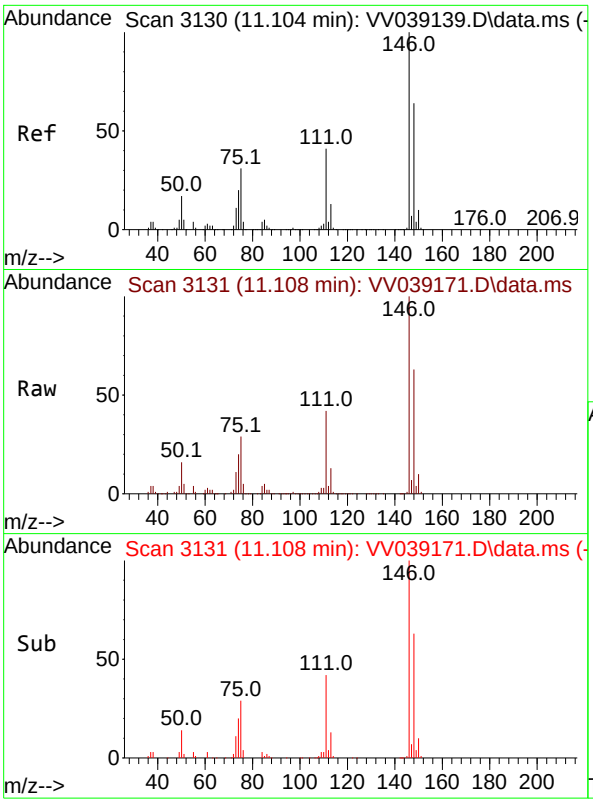




#86
p-Isopropyltoluene
Concen: 20.505 ug/l
RT: 11.169 min Scan# 3150
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion:119 Resp: 692579

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.6 | 12.7 | 38.0 |
| 91 | 23.8 | 12.0 | 36.1 |



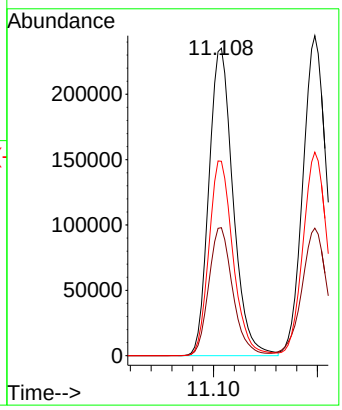


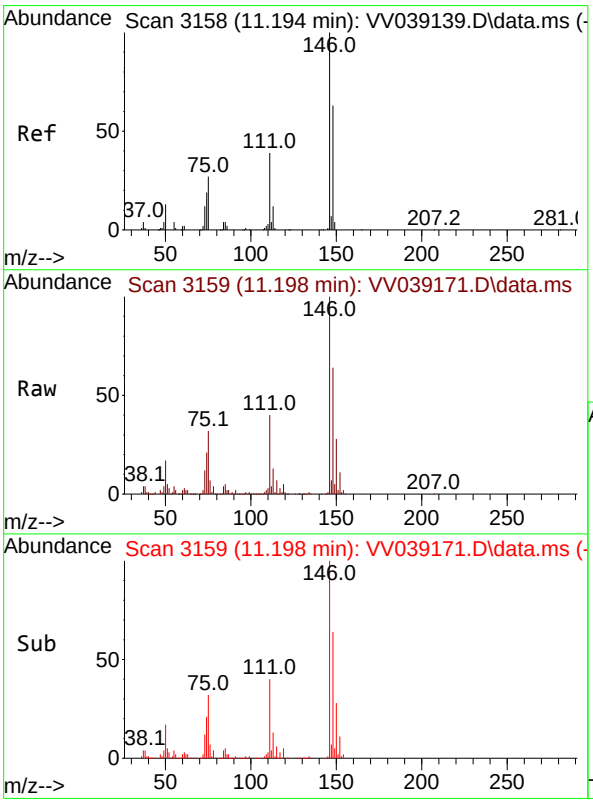

#87
1,3-Dichlorobenzene
Concen: 19.629 ug/l
RT: 11.108 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion:146 Resp: 380476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.3 | 20.9 | 62.8 |
| 148 | 63.4 | 31.8 | 95.3 |

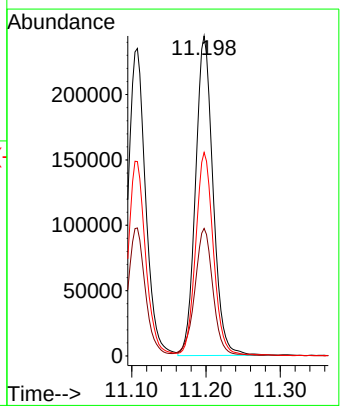


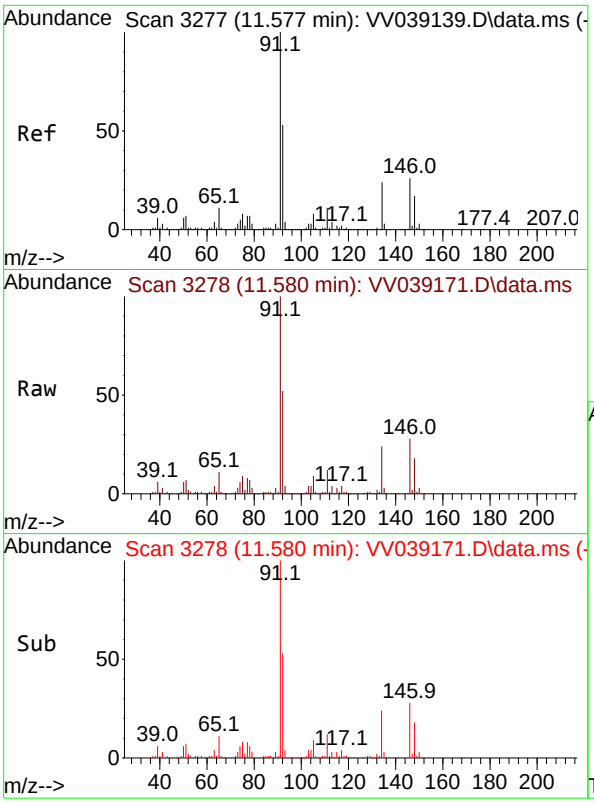




#88
1,4-Dichlorobenzene
Concen: 18.854 ug/l
RT: 11.198 min Scan# 3159
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion:146 Resp: 400938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.4 | 20.3 | 60.8 |
| 148 | 63.3 | 31.4 | 94.2 |



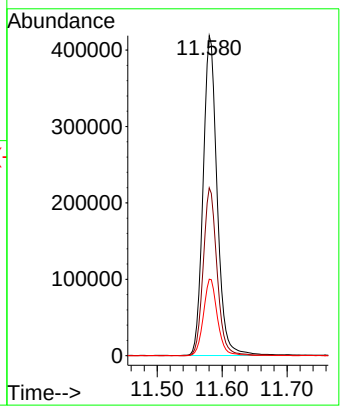


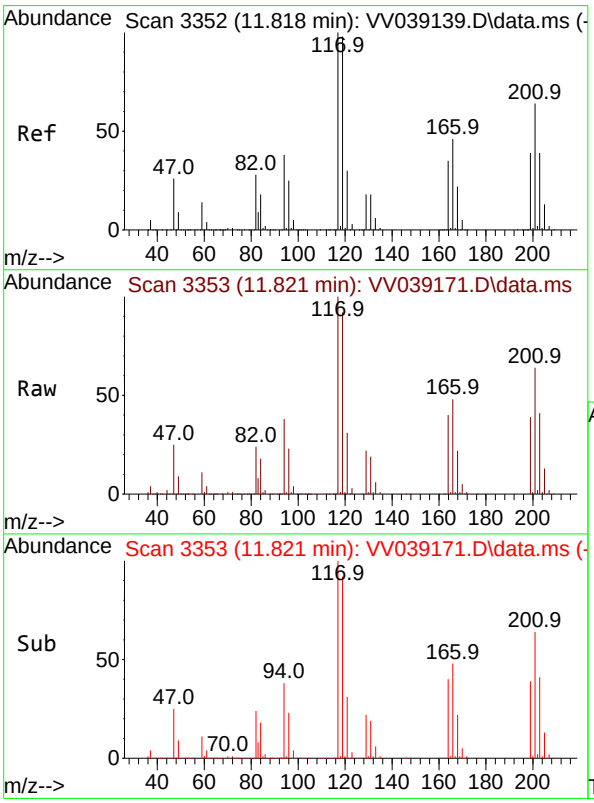

#89
n-Butylbenzene
Concen: 19.528 ug/l
RT: 11.580 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion: 91 Resp: 629906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 51.6 | 26.6 | 79.8 |
| 134 | 23.9 | 12.1 | 36.3 |

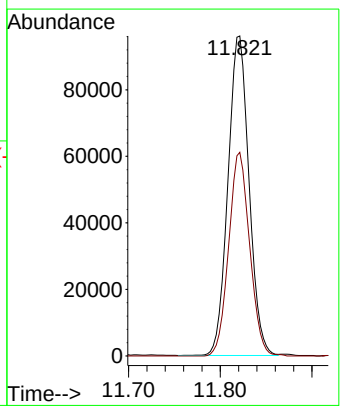


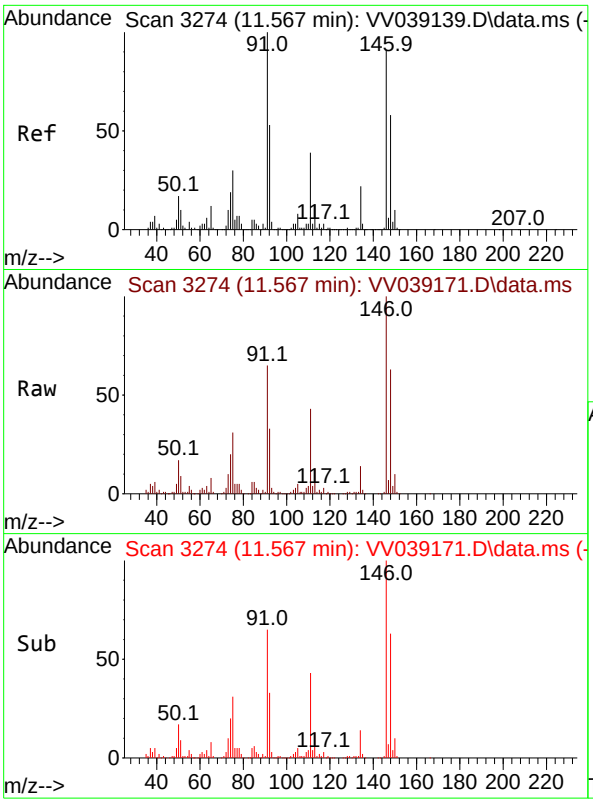




#90
Hexachloroethane
Concen: 18.396 ug/l
RT: 11.821 min Scan# 3353
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion:117 Resp: 153004

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 63.4 | 32.3 | 96.8 |



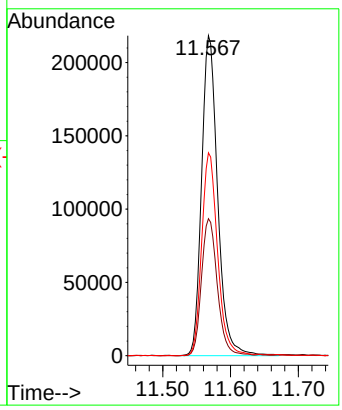


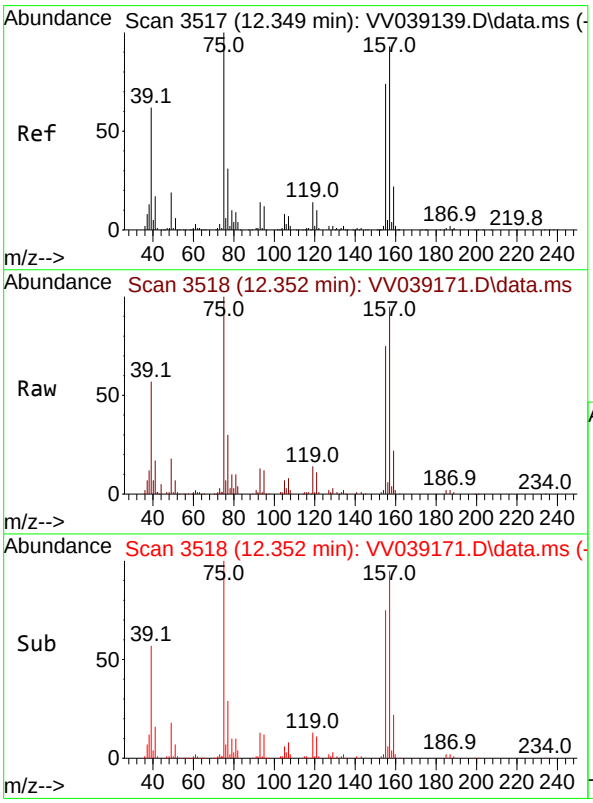

#91
1,2-Dichlorobenzene
Concen: 19.846 ug/l
RT: 11.567 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion:146 Resp: 359391

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.2 | 21.5 | 64.5 |
| 148 | 62.9 | 31.9 | 95.7 |

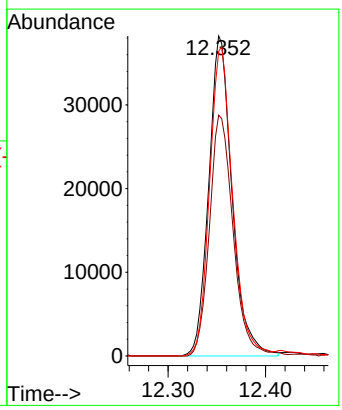


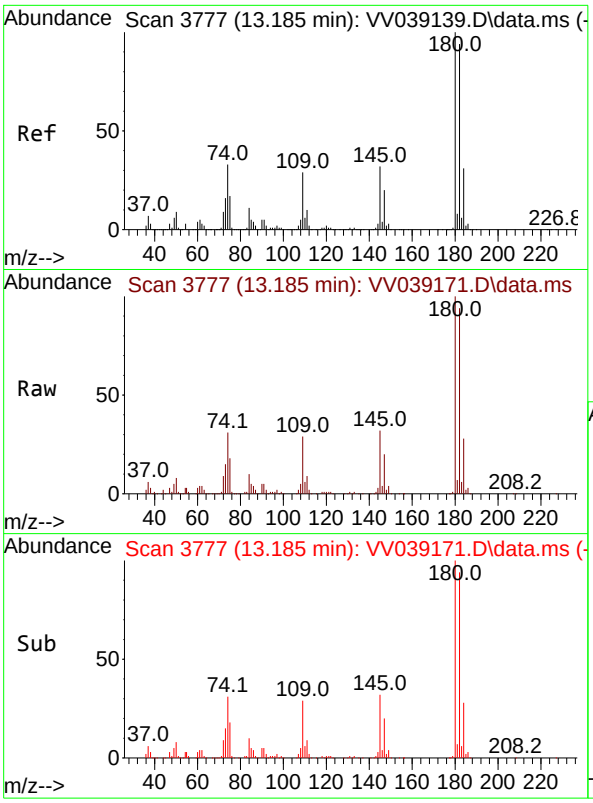




#92
1,2-Dibromo-3-Chloropropane
Concen: 22.105 ug/l
RT: 12.352 min Scan# 3518
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion: 75 Resp: 63577

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 76.5 | 38.6 | 115.8 |
| 157 | 95.7 | 49.5 | 148.3 |



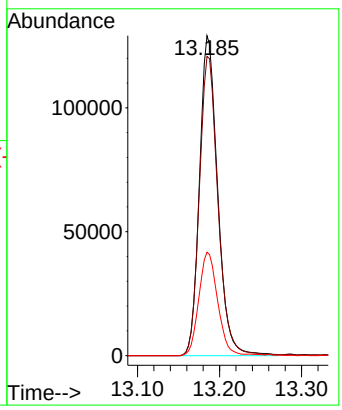


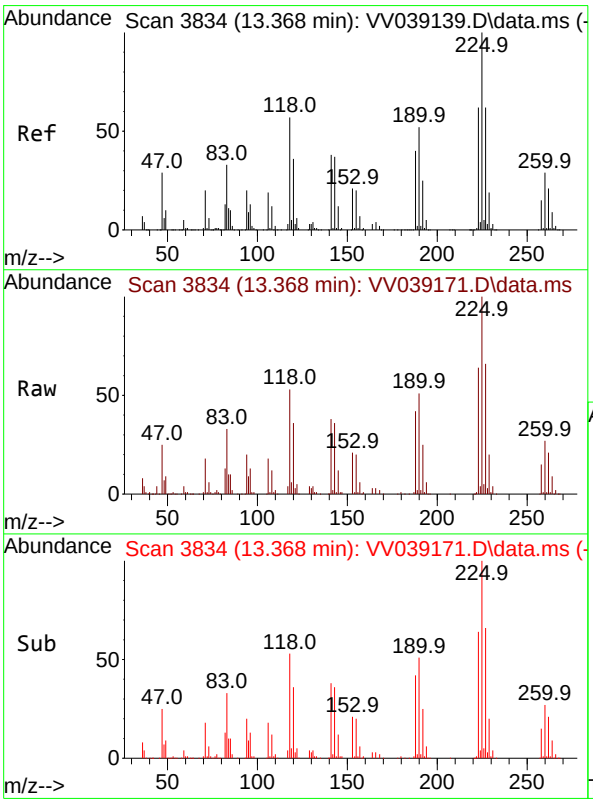

#93
1,2,4-Trichlorobenzene
Concen: 19.155 ug/l
RT: 13.185 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion:180 Resp: 198844

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.6 | 47.1 | 141.4 |
| 145 | 33.6 | 16.3 | 48.8 |

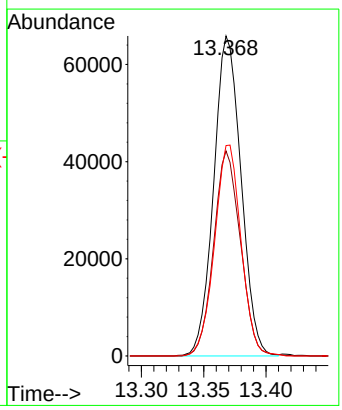


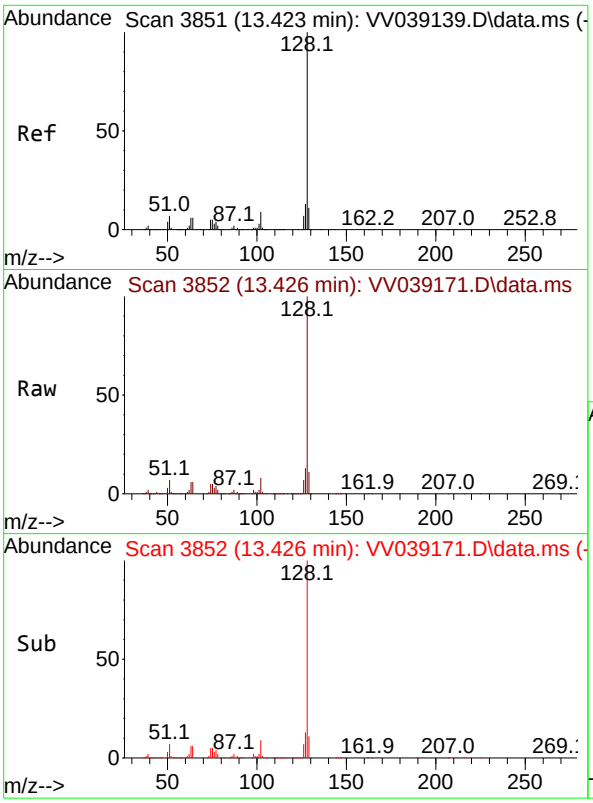




#94
Hexachlorobutadiene
Concen: 18.672 ug/l
RT: 13.368 min Scan# 3834
Delta R.T. -0.000 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion:225 Resp: 100713

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.7 | 31.6 | 94.7 |
| 227 | 64.0 | 31.8 | 95.4 |



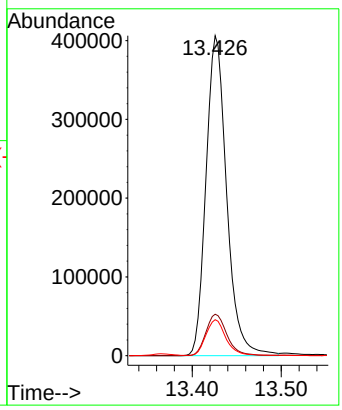


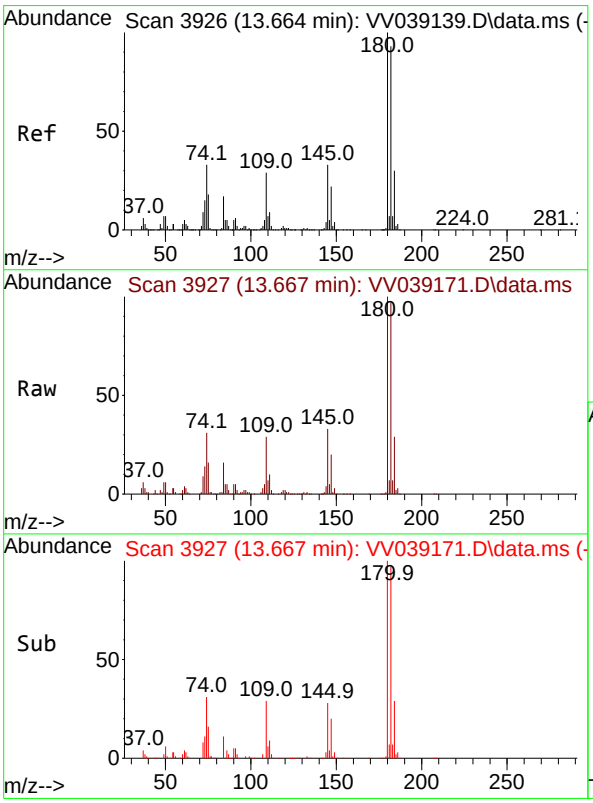

#95
Naphthalene
Concen: 19.499 ug/l
RT: 13.426 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0925WBS01

Tgt Ion:128 Resp: 654241

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.3 | 10.3 | 15.5 |
| 129 | 10.8 | 8.6 | 13.0 |

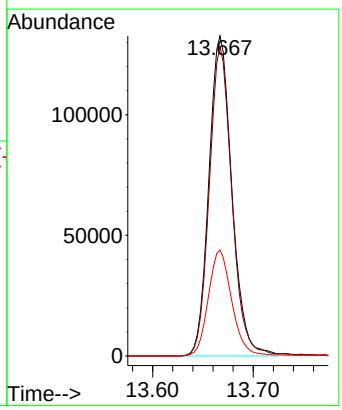



#96
1,2,3-Trichlorobenzene
Concen: 19.856 ug/l
RT: 13.667 min Scan# 3927
Delta R.T. 0.003 min
Lab File: VV039171.D
Acq: 25 Sep 2025 11:24

Tgt Ion:180 Resp: 210809

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.3 | 46.9 | 140.8 |
| 145 | 34.0 | 17.0 | 51.0 |



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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | |
| Project: | REAC Commodore | Date Received: | |
| Client Sample ID: | VV0926WBS01 | SDG No.: | Q3195 |
| Lab Sample ID: | VV0926WBS01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039201.D | 1 | 09/26/25 10:49 | VV092625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 17.8 | | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 17.6 | | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 18.7 | | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 18.5 | | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 19.3 | | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 19.0 | | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 18.8 | | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 19.2 | | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 86.4 | | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 17.9 | | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 19.2 | | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 19.9 | | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 19.9 | | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 19.2 | | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 18.5 | | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 16.7 | | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 90.9 | | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 18.0 | | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 18.7 | | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 19.1 | | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 18.4 | | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 17.8 | | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 17.0 | | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 19.0 | | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 18.5 | | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 20.1 | | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 19.7 | | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 18.9 | | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 100 | | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 20.3 | | 0.14 | 1.00 | ug/L |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | |
| Project: | REAC Commodore | Date Received: | |
| Client Sample ID: | VV0926WBS01 | SDG No.: | Q3195 |
| Lab Sample ID: | VV0926WBS01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039201.D | 1 | 09/26/25 10:49 | VV092625 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 20.1 | | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 20.7 | | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 19.3 | | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 92.5 | | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 19.5 | | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 20.2 | | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 19.5 | | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 19.3 | | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 19.4 | | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 41.8 | | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 20.2 | | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 18.8 | | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 20.4 | | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 19.0 | | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 18.1 | | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 19.2 | | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 18.3 | | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 18.9 | | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 21.5 | | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 18.3 | | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 18.4 | | 0.20 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 46.9 | | 74 - 125 | 94% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 52.3 | | 75 - 124 | 105% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.2 | | 86 - 113 | 100% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 55.4 | | 77 - 121 | 111% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 545000 | 4.6 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 872000 | 5.532 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 835000 | 8.776 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 491000 | 11.172 | | | |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | |
| Project: | REAC Commodore | Date Received: | |
| Client Sample ID: | VV0926WBS01 | SDG No.: | Q3195 |
| Lab Sample ID: | VV0926WBS01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039201.D | 1 | 09/26/25 10:49 | VV092625 |

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039201.D
Acq On : 26 Sep 2025 10:49
Operator : SY/MD
Sample : VV0926WBS01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Quant Time: Sep 27 02:50:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.600 | 168 | 545170 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.532 | 114 | 871681 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.776 | 117 | 834845 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.172 | 152 | 490803 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.941 | 65 | 370387 | 46.942 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 93.880% | | | |
| 35) Dibromofluoromethane | 4.500 | 113 | 366158 | 52.251 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 104.500% | | | |
| 50) Toluene-d8 | 7.236 | 98 | 1033075 | 50.194 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 100.380% | | | |
| 62) 4-Bromofluorobenzene | 10.002 | 95 | 469175 | 55.374 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 110.740% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.121 | 85 | 154039 | 17.849 | ug/l | 98 |
| 3) Chloromethane | 1.227 | 50 | 163364 | 17.633 | ug/l | 100 |
| 4) Vinyl Chloride | 1.294 | 62 | 185615 | 18.714 | ug/l | 99 |
| 5) Bromomethane | 1.497 | 94 | 115593 | 18.487 | ug/l | 100 |
| 6) Chloroethane | 1.561 | 64 | 119943 | 19.255 | ug/l | 100 |
| 7) Trichlorofluoromethane | 1.725 | 101 | 273170 | 19.023 | ug/l | 98 |
| 8) Diethyl Ether | 1.918 | 74 | 99752 | 18.712 | ug/l | 95 |
| 9) 1,1,2-Trichlorotrifluo... | 2.082 | 101 | 160752 | 18.814 | ug/l | 97 |
| 10) Methyl Iodide | 2.198 | 142 | 144299 | 17.735 | ug/l | 99 |
| 11) Tert butyl alcohol | 2.568 | 59 | 169988 | 101.934 | ug/l | 98 |
| 12) 1,1-Dichloroethene | 2.082 | 96 | 158225 | 19.249 | ug/l | 92 |
| 13) Acrolein | 2.008 | 56 | 32871 | 113.596 | ug/l | 93 |
| 14) Allyl chloride | 2.356 | 41 | 272293 | 18.545 | ug/l | 94 |
| 15) Acrylonitrile | 2.674 | 53 | 500998 | 93.717 | ug/l | 99 |
| 16) Acetone | 2.121 | 43 | 453436 | 86.377 | ug/l | 97 |
| 17) Carbon Disulfide | 2.253 | 76 | 451210 | 17.949 | ug/l | 100 |
| 18) Methyl Acetate | 2.378 | 43 | 232213 | 19.863 | ug/l | 96 |
| 19) Methyl tert-butyl Ether | 2.712 | 73 | 503956 | 19.240 | ug/l | 99 |
| 20) Methylene Chloride | 2.455 | 84 | 182887 | 19.906 | ug/l | 93 |
| 21) trans-1,2-Dichloroethene | 2.703 | 96 | 167785 | 19.174 | ug/l | 97 |
| 22) Diisopropyl ether | 3.217 | 45 | 504159 | 17.947 | ug/l | 92 |
| 23) Vinyl Acetate | 3.188 | 43 | 2213428 | 90.069 | ug/l | 98 |
| 24) 1,1-Dichloroethane | 3.118 | 63 | 317281 | 18.469 | ug/l | 100 |
| 25) 2-Butanone | 3.870 | 43 | 574606 | 90.944 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 3.809 | 77 | 251937 | 16.540 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 3.818 | 96 | 180565 | 18.710 | ug/l | 98 |
| 28) Bromochloromethane | 4.146 | 49 | 145186 | 19.144 | ug/l | 89 |
| 29) Tetrahydrofuran | 4.240 | 42 | 369264 | 93.372 | ug/l | 97 |
| 30) Chloroform | 4.278 | 83 | 329719 | 18.380 | ug/l | 100 |
| 31) Cyclohexane | 4.584 | 56 | 235441 | 16.730 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 4.510 | 97 | 277050 | 17.839 | ug/l | 97 |
| 36) 1,1-Dichloropropene | 4.744 | 75 | 199480 | 18.828 | ug/l | 99 |
| 37) Ethyl Acetate | 3.982 | 43 | 227906 | 17.728 | ug/l | 98 |
| 38) Carbon Tetrachloride | 4.732 | 117 | 233151 | 18.006 | ug/l | 98 |
| 39) Methylcyclohexane | 6.047 | 83 | 217201 | 16.976 | ug/l | 98 |
| 40) Benzene | 5.008 | 78 | 654407 | 18.968 | ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039201.D
Acq On : 26 Sep 2025 10:49
Operator : SY/MD
Sample : VV0926WBS01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Quant Time: Sep 27 02:50:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.163 | 41 | 96114 | 17.814 | ug/l | 93 |
| 42) 1,2-Dichloroethane | 5.040 | 62 | 223503 | 18.489 | ug/l | 98 |
| 43) Isopropyl Acetate | 5.195 | 43 | 327971 | 18.710 | ug/l | 98 |
| 44) Trichloroethene | 5.831 | 130 | 160144 | 20.116 | ug/l | 97 |
| 45) 1,2-Dichloropropane | 6.092 | 63 | 168622 | 19.664 | ug/l | 98 |
| 46) Dibromomethane | 6.227 | 93 | 126156 | 19.221 | ug/l | 97 |
| 47) Bromodichloromethane | 6.426 | 83 | 256722 | 18.920 | ug/l | 99 |
| 48) Methyl methacrylate | 6.301 | 41 | 142959 | 17.992 | ug/l | 96 |
| 49) 1,4-Dioxane | 6.297 | 88 | 51154 | 398.926 | ug/l | 96 |
| 51) 4-Methyl-2-Pentanone | 7.150 | 43 | 1165241 | 101.045 | ug/l | 98 |
| 52) Toluene | 7.307 | 92 | 405246 | 20.259 | ug/l | 98 |
| 53) t-1,3-Dichloropropene | 7.577 | 75 | 237200 | 20.059 | ug/l | 98 |
| 54) cis-1,3-Dichloropropene | 6.950 | 75 | 269902 | 20.676 | ug/l | 95 |
| 55) 1,1,2-Trichloroethane | 7.760 | 97 | 173521 | 19.346 | ug/l | 98 |
| 56) Ethyl methacrylate | 7.719 | 69 | 205595 | 19.302 | ug/l | 96 |
| 57) 1,3-Dichloropropane | 7.934 | 76 | 270929 | 19.140 | ug/l | 99 |
| 58) 2-Chloroethyl Vinyl ether | 6.812 | 63 | 497770 | 89.200 | ug/l | 100 |
| 59) 2-Hexanone | 8.066 | 43 | 847553 | 92.530 | ug/l | 99 |
| 60) Dibromochloromethane | 8.169 | 129 | 199559 | 19.526 | ug/l | 98 |
| 61) 1,2-Dibromoethane | 8.275 | 107 | 185266 | 20.197 | ug/l | 98 |
| 64) Tetrachloroethene | 7.895 | 164 | 136377 | 19.503 | ug/l | 98 |
| 65) Chlorobenzene | 8.805 | 112 | 448775 | 19.299 | ug/l | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 8.899 | 131 | 161669 | 19.241 | ug/l | 99 |
| 67) Ethyl Benzene | 8.937 | 91 | 683210 | 19.409 | ug/l | 99 |
| 68) m/p-Xylenes | 9.063 | 106 | 568444 | 41.841 | ug/l | 98 |
| 69) o-Xylene | 9.468 | 106 | 243305 | 20.226 | ug/l | 97 |
| 70) Styrene | 9.487 | 104 | 454259 | 18.755 | ug/l | 99 |
| 71) Bromoform | 9.654 | 173 | 133666 | 20.366 | ug/l | 99 |
| 73) Isopropylbenzene | 9.857 | 105 | 676001 | 18.990 | ug/l | 99 |
| 74) N-amyl acetate | 9.725 | 43 | 273330 | 19.249 | ug/l | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 10.165 | 83 | 283007 | 18.144 | ug/l | 99 |
| 76) 1,2,3-Trichloropropane | 10.198 | 75 | 205329 | 18.374 | ug/l | 99 |
| 77) Bromobenzene | 10.140 | 156 | 182007 | 19.707 | ug/l | 96 |
| 78) n-propylbenzene | 10.278 | 91 | 822195 | 18.966 | ug/l | 98 |
| 79) 2-Chlorotoluene | 10.349 | 91 | 515642 | 19.879 | ug/l | 100 |
| 80) 1,3,5-Trimethylbenzene | 10.464 | 105 | 577612 | 19.521 | ug/l | 99 |
| 81) trans-1,4-Dichloro-2-b... | 9.931 | 75 | 86829 | 18.654 | ug/l | 99 |
| 82) 4-Chlorotoluene | 10.464 | 91 | 607661 | 20.203 | ug/l | 100 |
| 83) tert-Butylbenzene | 10.789 | 119 | 532209 | 18.038 | ug/l | 98 |
| 84) 1,2,4-Trimethylbenzene | 10.841 | 105 | 559808 | 19.488 | ug/l | 99 |
| 85) sec-Butylbenzene | 11.011 | 105 | 691659 | 17.674 | ug/l | 100 |
| 86) p-Isopropyltoluene | 11.169 | 119 | 589760 | 18.107 | ug/l | 100 |
| 87) 1,3-Dichlorobenzene | 11.108 | 146 | 358060 | 19.156 | ug/l | 99 |
| 88) 1,4-Dichlorobenzene | 11.198 | 146 | 375372 | 18.305 | ug/l | 98 |
| 89) n-Butylbenzene | 11.580 | 91 | 539925 | 17.357 | ug/l | 99 |
| 90) Hexachloroethane | 11.818 | 117 | 129925 | 16.198 | ug/l | 99 |
| 91) 1,2-Dichlorobenzene | 11.567 | 146 | 329507 | 18.868 | ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.352 | 75 | 59548 | 21.458 | ug/l | 97 |
| 93) 1,2,4-Trichlorobenzene | 13.188 | 180 | 183040 | 18.284 | ug/l | 99 |
| 94) Hexachlorobutadiene | 13.371 | 225 | 79764 | 15.334 | ug/l | 98 |
| 95) Naphthalene | 13.426 | 128 | 602556 | 18.623 | ug/l | 100 |
| 96) 1,2,3-Trichlorobenzene | 13.667 | 180 | 188633 | 18.424 | ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039201.D
Acq On : 26 Sep 2025 10:49
Operator : SY/MD
Sample : VV0926WBS01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Quant Time: Sep 27 02:50:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

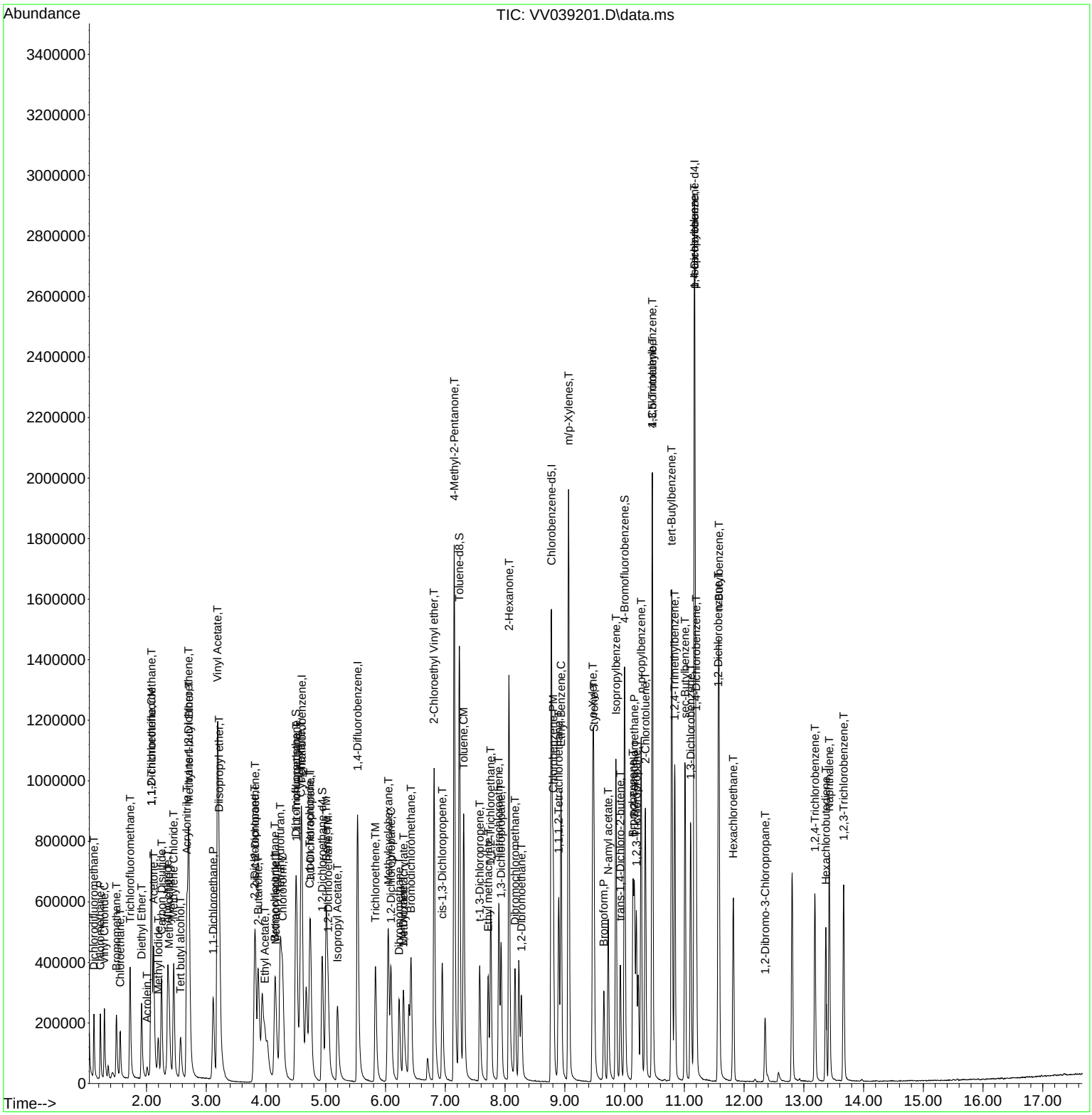
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

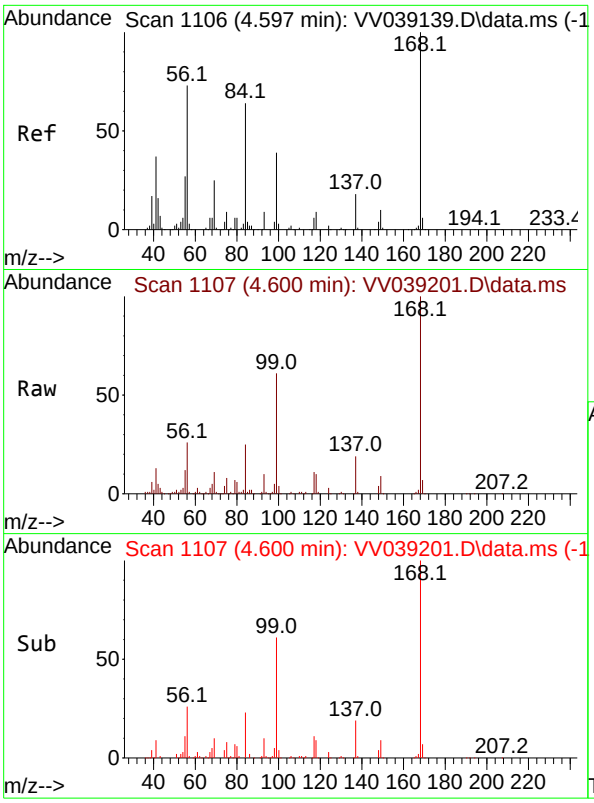
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092625\
Data File : VV039201.D
Acq On : 26 Sep 2025 10:49
Operator : SY/MD
Sample : VV0926WBS01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Quant Time: Sep 27 02:50:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



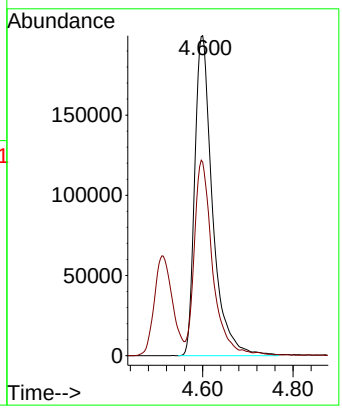


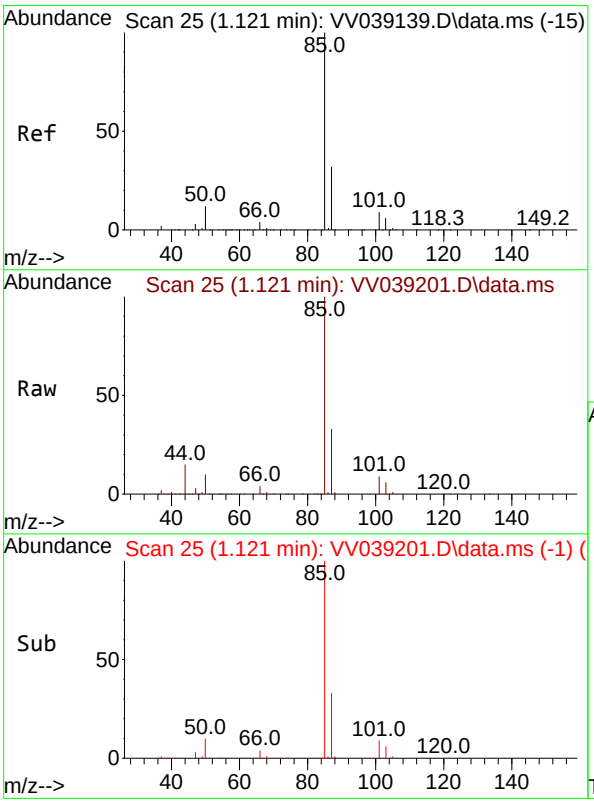

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion:168 Resp: 545170

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 60.1 | 49.6 | 74.4 |

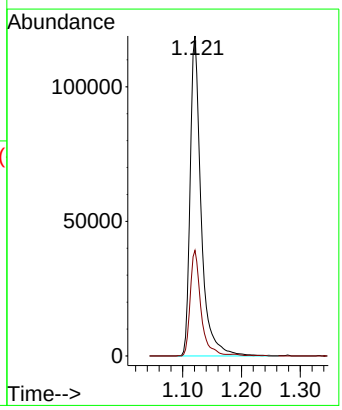


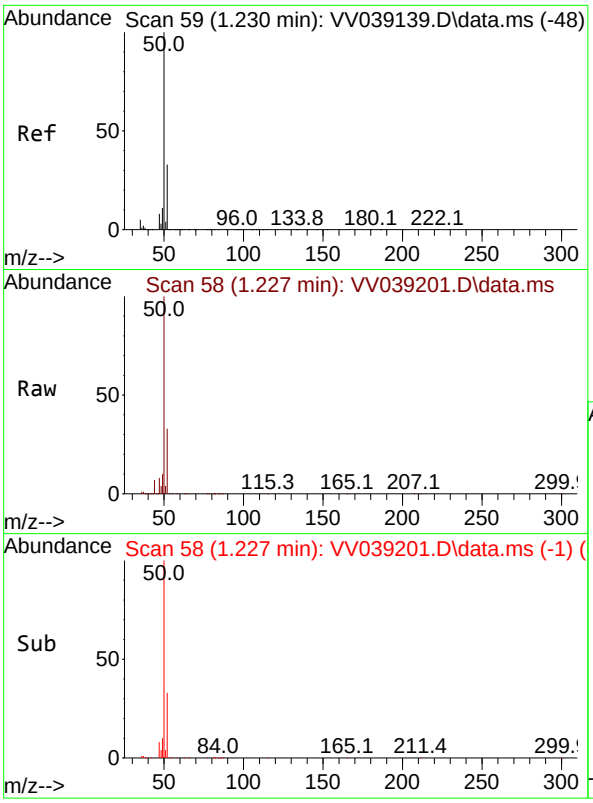




#2
Dichlorodifluoromethane
Concen: 17.849 ug/l
RT: 1.121 min Scan# 25
Delta R.T. 0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 85 Resp: 154039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.0 | 16.0 | 47.9 |



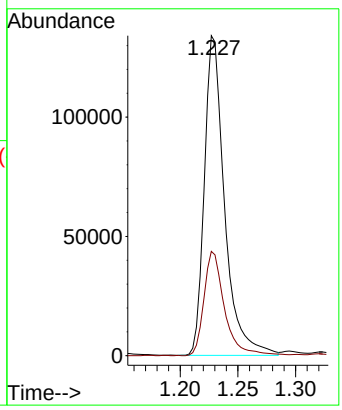


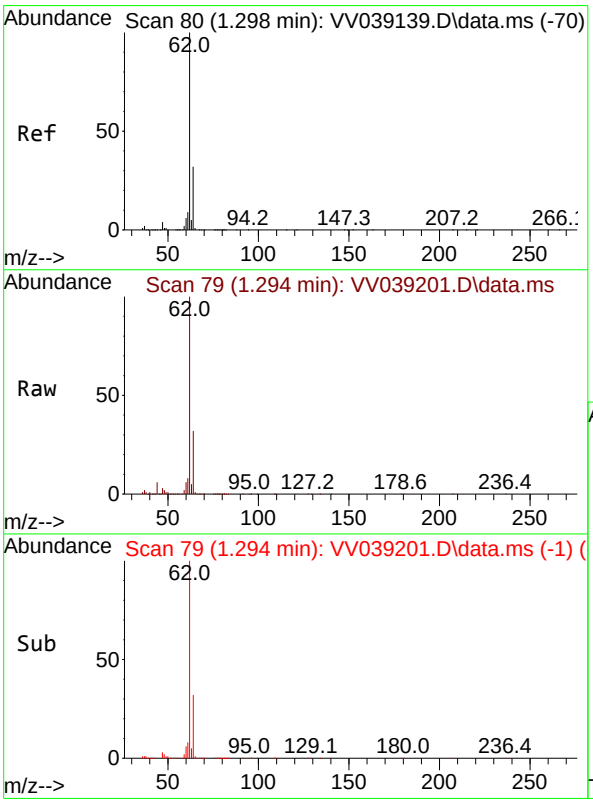

#3
Chloromethane
Concen: 17.633 ug/l
RT: 1.227 min Scan# 5
Delta R.T. -0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion: 50 Resp: 163364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.5 | 26.0 | 39.0 |

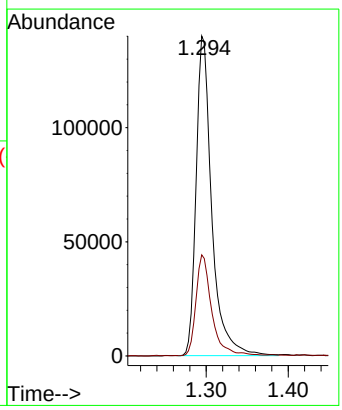


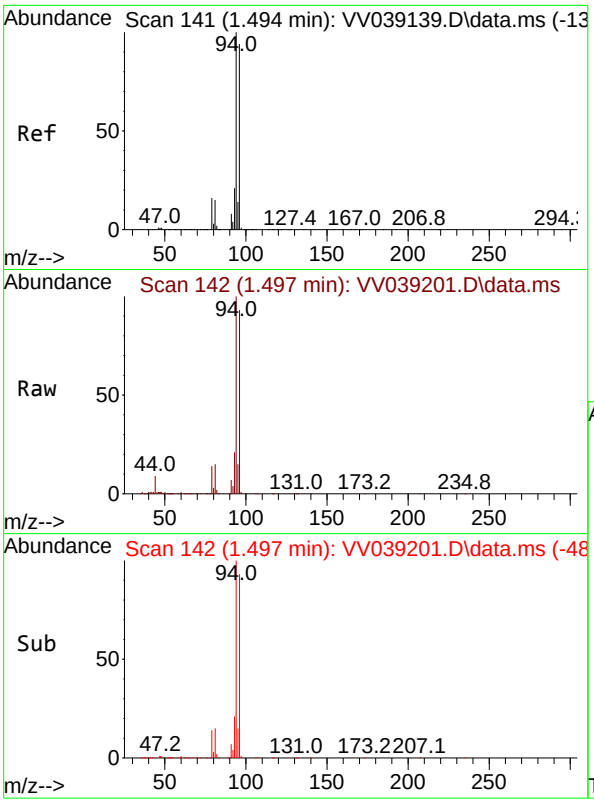




#4
Vinyl Chloride
Concen: 18.714 ug/l
RT: 1.294 min Scan# 79
Delta R.T. -0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 62 Resp: 185615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.5 | 25.6 | 38.4 |



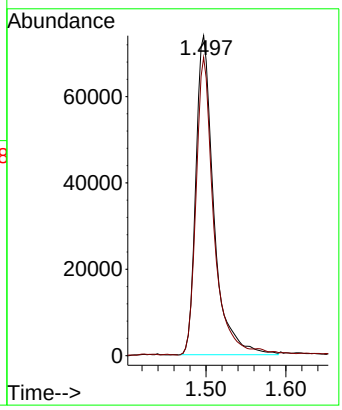


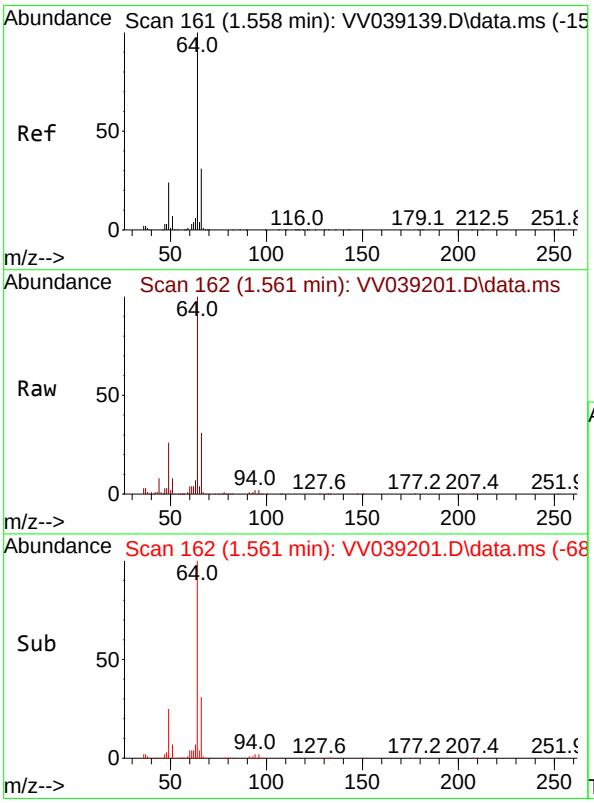

#5
Bromomethane
Concen: 18.487 ug/l
RT: 1.497 min Scan# 14
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion: 94 Resp: 115593

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 93.3 | 74.9 | 112.3 |

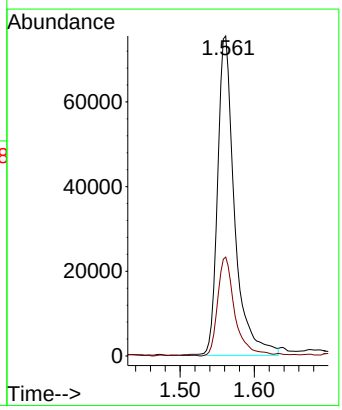


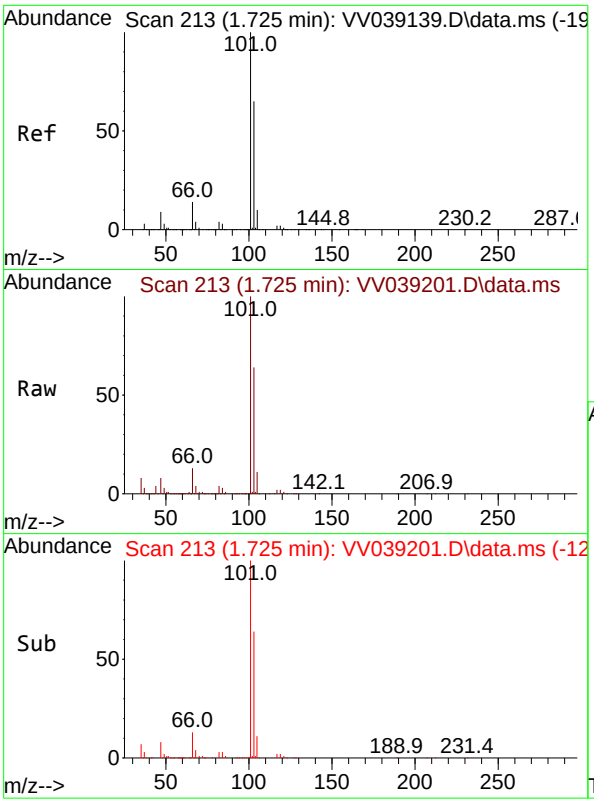




#6
Chloroethane
Concen: 19.255 ug/l
RT: 1.561 min Scan# 162
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 64 Resp: 119943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.7 | 24.6 | 36.8 |



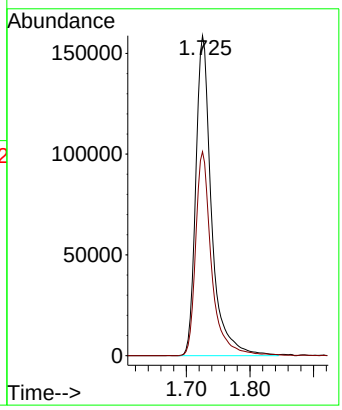


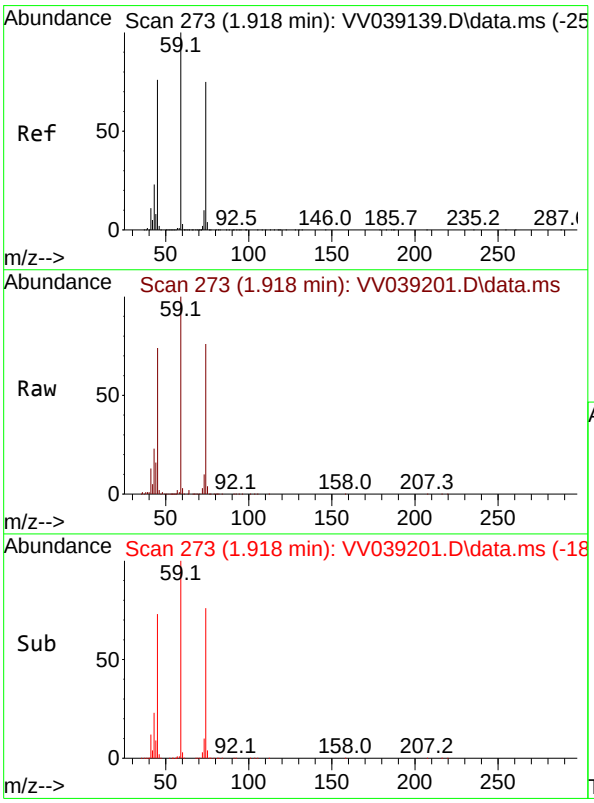

#7
Trichlorofluoromethane
Concen: 19.023 ug/l
RT: 1.725 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion:101 Resp: 273170

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.8 | 52.0 | 78.0 |

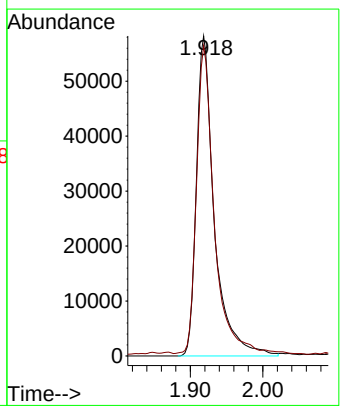


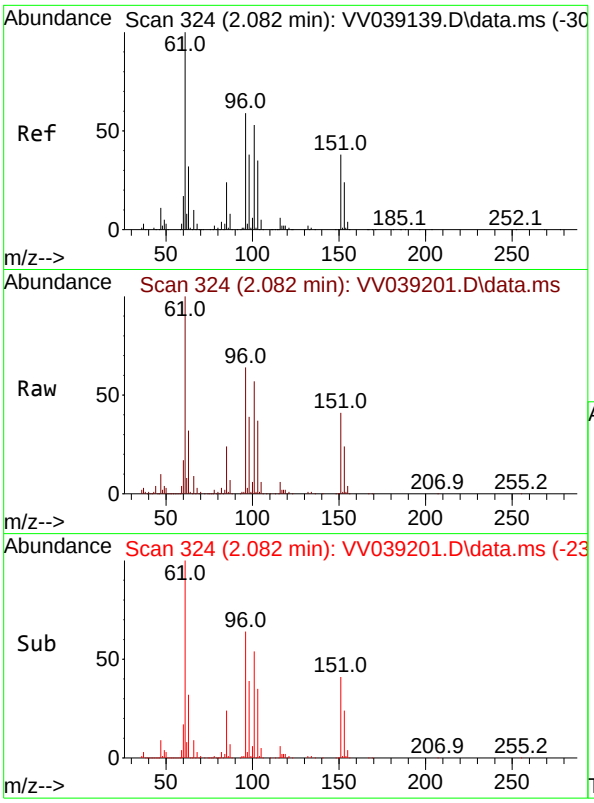




#8
Diethyl Ether
Concen: 18.712 ug/l
RT: 1.918 min Scan# 273
Delta R.T. 0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 74 Resp: 99752

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 93.9 | 49.6 | 148.8 |



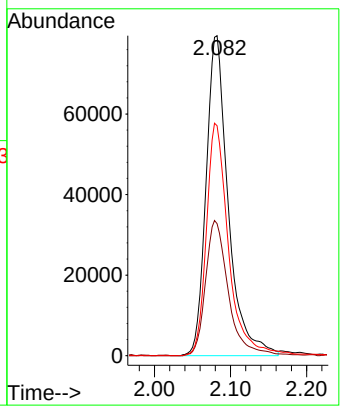


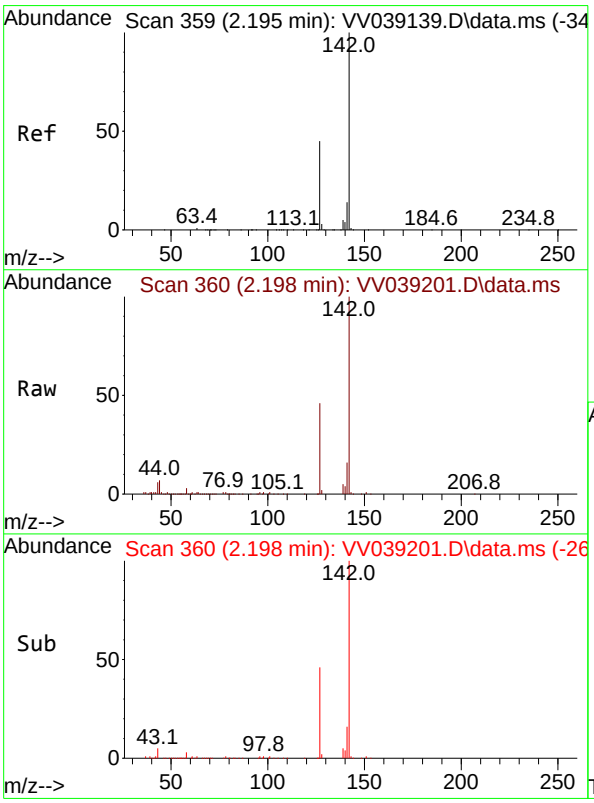

#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.814 ug/l
RT: 2.082 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion:101 Resp: 160752

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 43.7 | 36.2 | 54.2 |
| 151 | 72.7 | 56.3 | 84.5 |

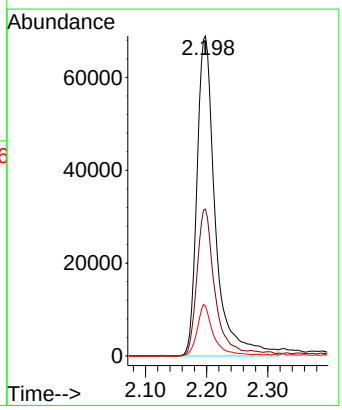


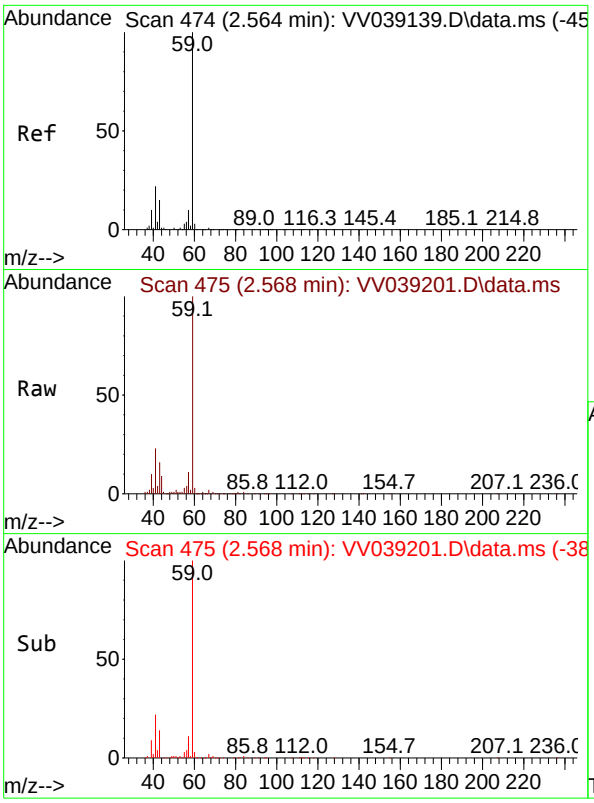




#10
Methyl Iodide
Concen: 17.735 ug/l
RT: 2.198 min Scan# 360
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion:142 Resp: 144299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 44.2 | 36.3 | 54.5 |
| 141 | 14.2 | 11.2 | 16.8 |



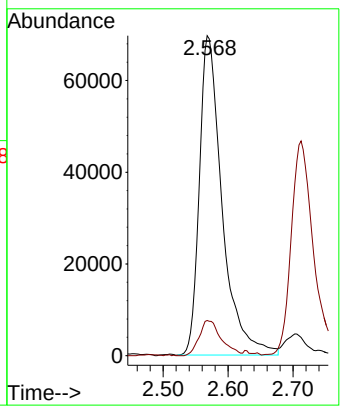


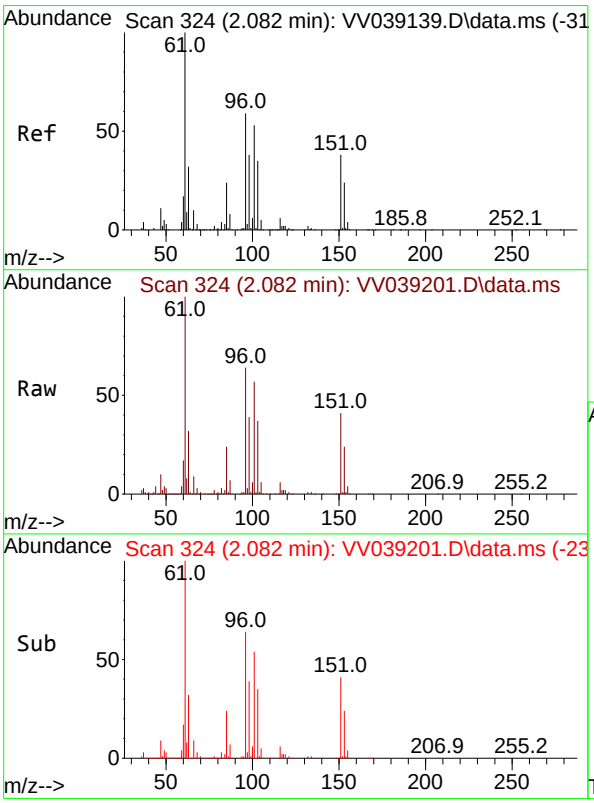

#11
Tert butyl alcohol
Concen: 101.934 ug/l
RT: 2.568 min Scan# 4
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion: 59 Resp: 169988

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.7 | 7.8 | 11.8 |

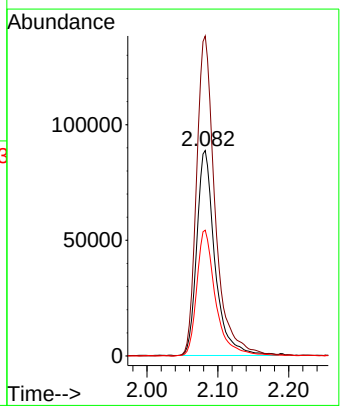


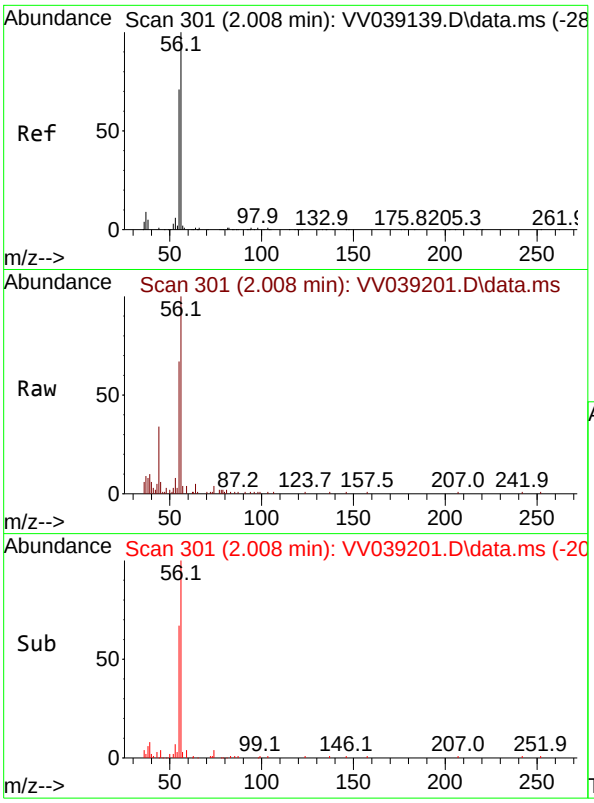




#12
1,1-Dichloroethene
Concen: 19.249 ug/l
RT: 2.082 min Scan# 324
Delta R.T. 0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 96 Resp: 158225

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 155.8 | 136.0 | 204.0 |
| 98 | 61.1 | 51.0 | 76.6 |



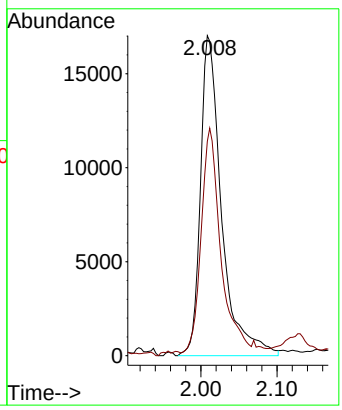


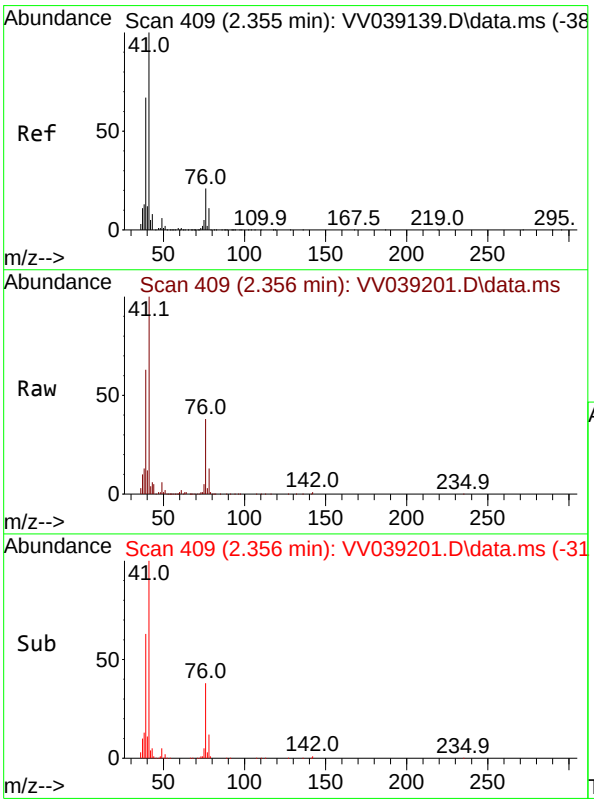

#13
Acrolein
Concen: 113.596 ug/l
RT: 2.008 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion: 56 Resp: 32871

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 64.6 | 56.2 | 84.4 |

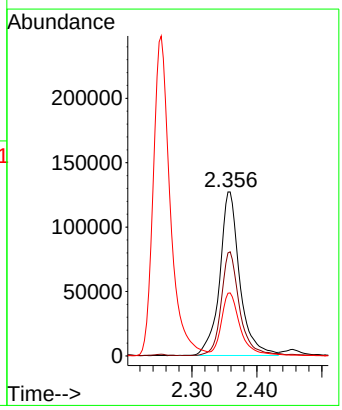


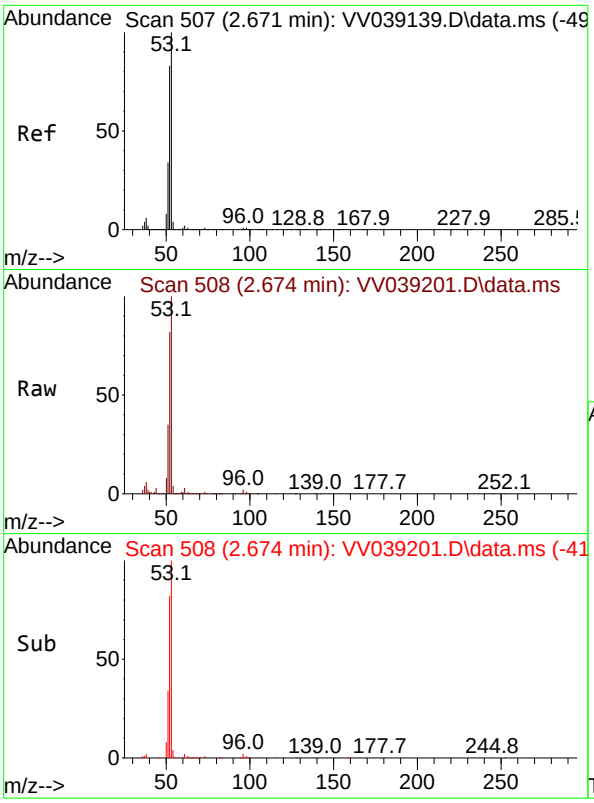




#14
Allyl chloride
Concen: 18.545 ug/l
RT: 2.356 min Scan# 409
Delta R.T. 0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 41 Resp: 272293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 58.1 | 51.0 | 76.6 |
| 76 | 36.7 | 28.2 | 42.4 |



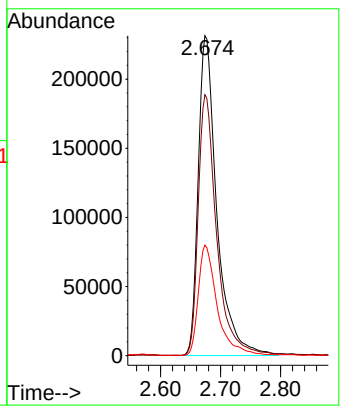


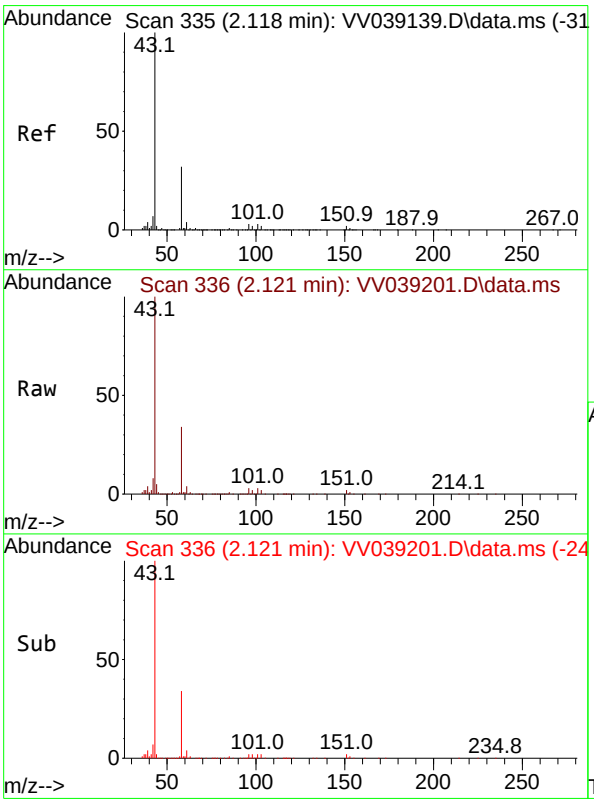

#15
Acrylonitrile
Concen: 93.717 ug/l
RT: 2.674 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion: 53 Resp: 500998

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.0 | 66.1 | 99.1 |
| 51 | 35.1 | 28.5 | 42.7 |

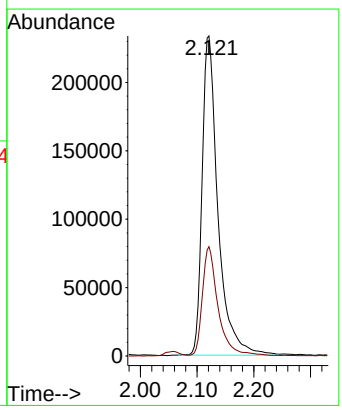


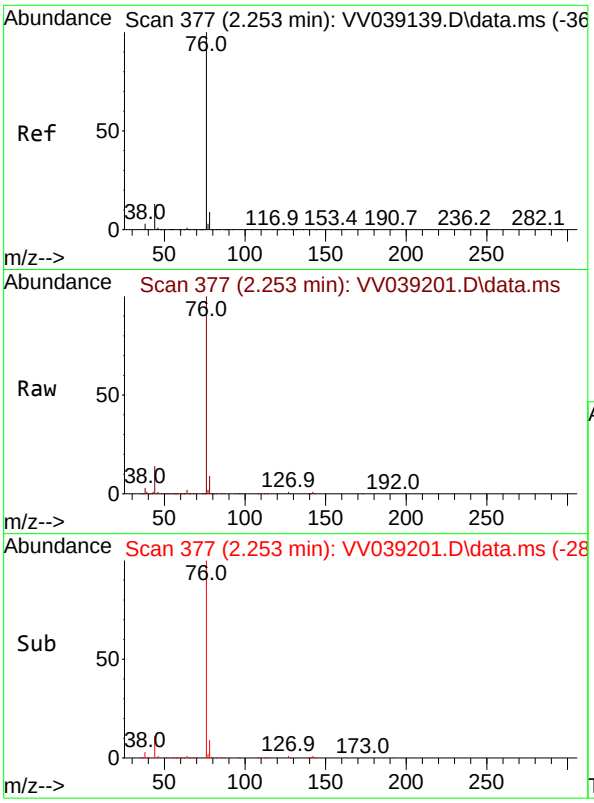




#16
Acetone
Concen: 86.377 ug/l
RT: 2.121 min Scan# 336
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 43 Resp: 453436

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 34.0 | 25.8 | 38.6 |



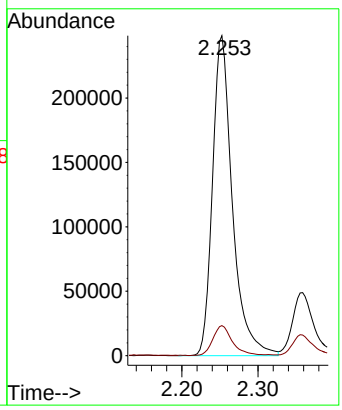


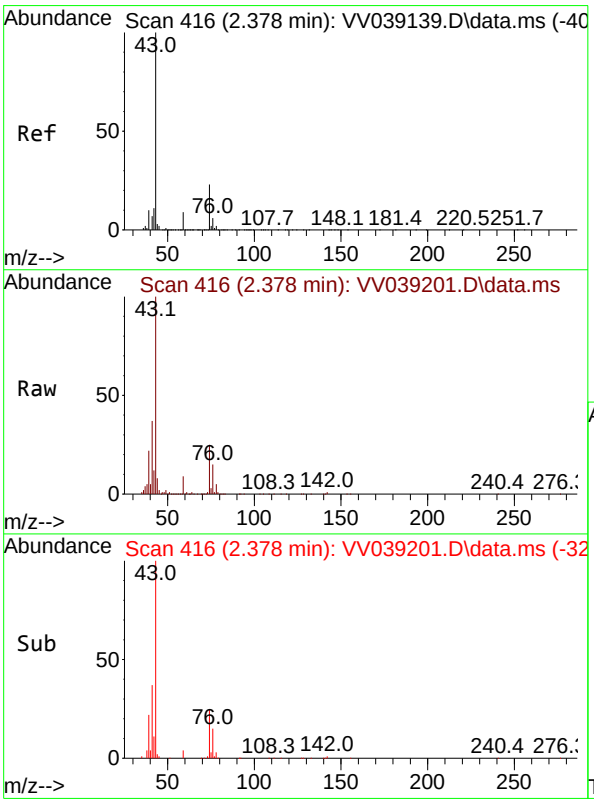

#17
Carbon Disulfide
Concen: 17.949 ug/l
RT: 2.253 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion: 76 Resp: 451210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.3 | 7.4 | 11.0 |

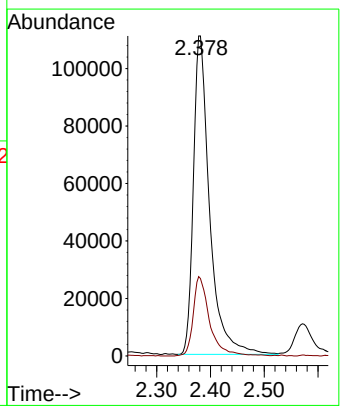


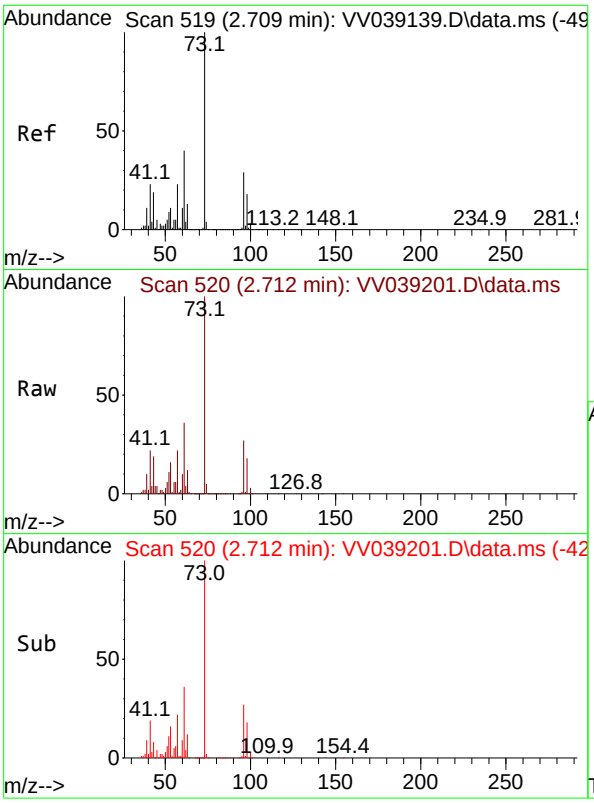




#18
Methyl Acetate
Concen: 19.863 ug/l
RT: 2.378 min Scan# 416
Delta R.T. 0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 43 Resp: 232213

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 25.2 | 18.6 | 27.8 |



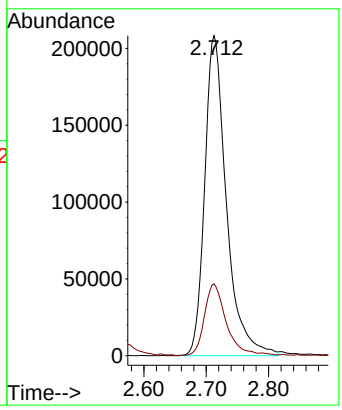


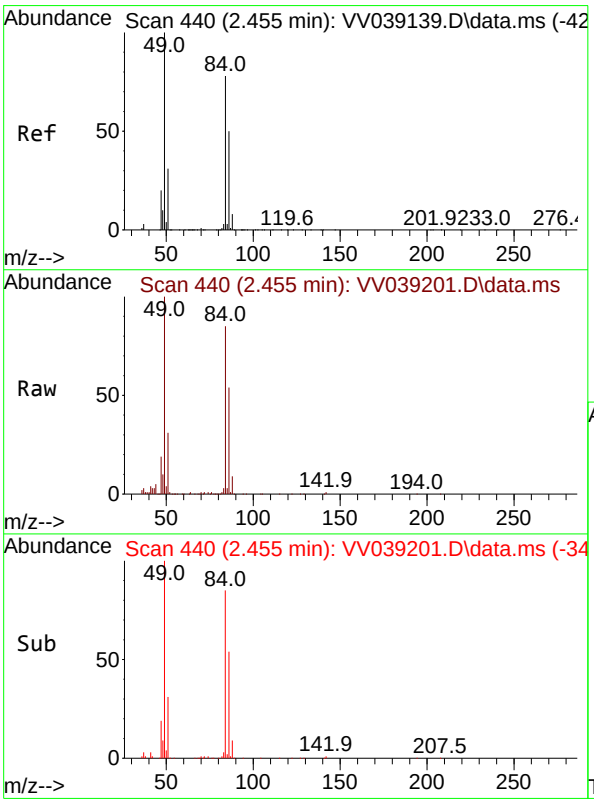

#19
Methyl tert-butyl Ether
Concen: 19.240 ug/l
RT: 2.712 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion: 73 Resp: 503956

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.4 | 18.2 | 27.4 |

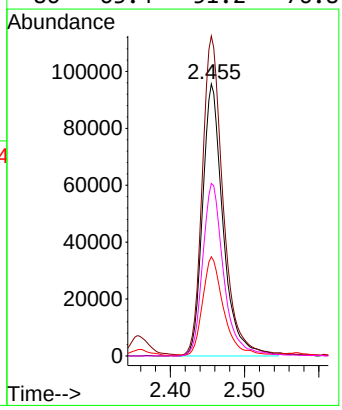


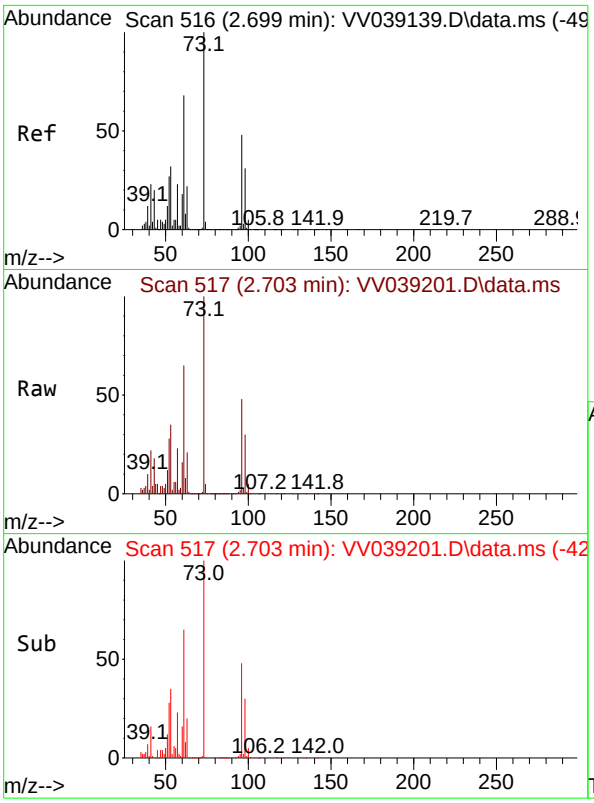




#20
Methylene Chloride
Concen: 19.906 ug/l
RT: 2.455 min Scan# 440
Delta R.T. 0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 84 Resp: 182887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 117.2 | 102.8 | 154.2 |
| 51 | 36.2 | 31.9 | 47.9 |
| 86 | 63.4 | 51.2 | 76.8 |



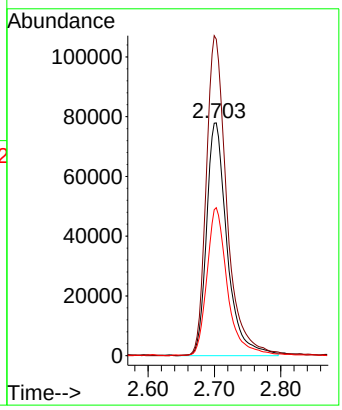


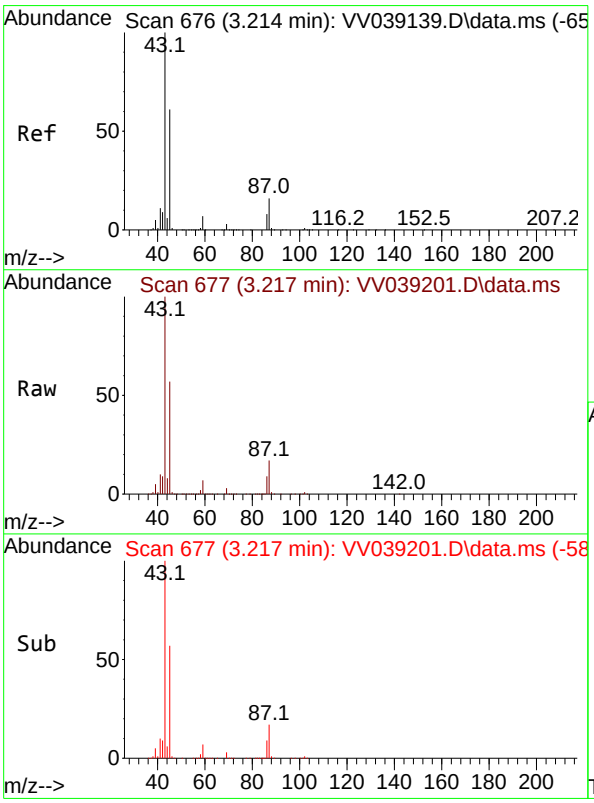

#21
trans-1,2-Dichloroethene
Concen: 19.174 ug/l
RT: 2.703 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion: 96 Resp: 167785

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 136.0 | 112.8 | 169.2 |
| 98 | 63.3 | 51.1 | 76.7 |

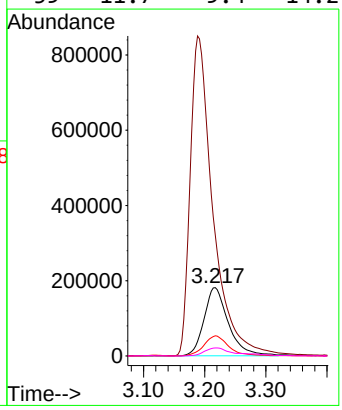


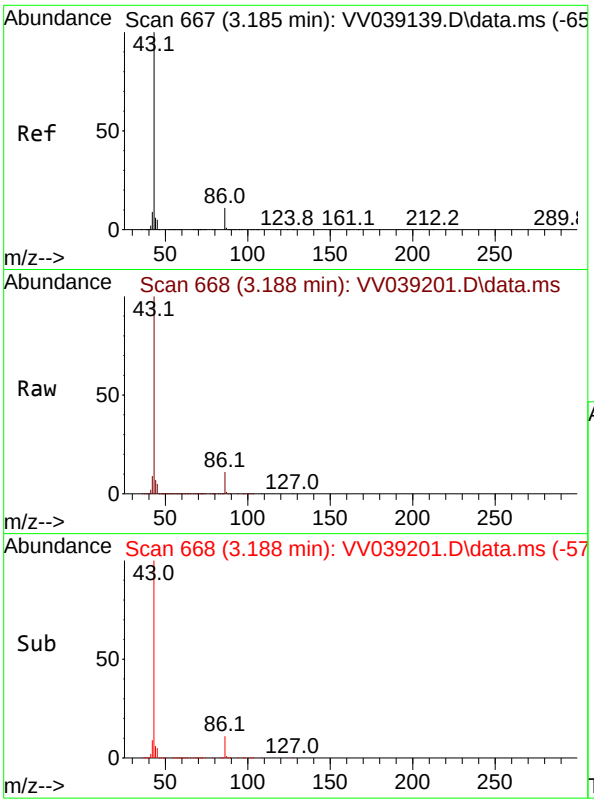




#22
Diisopropyl ether
Concen: 17.947 ug/l
RT: 3.217 min Scan# 677
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 45 Resp: 504159

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 174.8 | 130.9 | 196.3 |
| 87 | 29.3 | 21.1 | 31.7 |
| 59 | 11.7 | 9.4 | 14.2 |



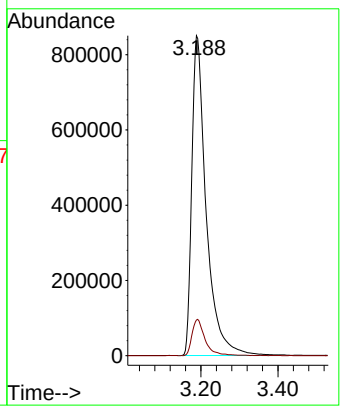


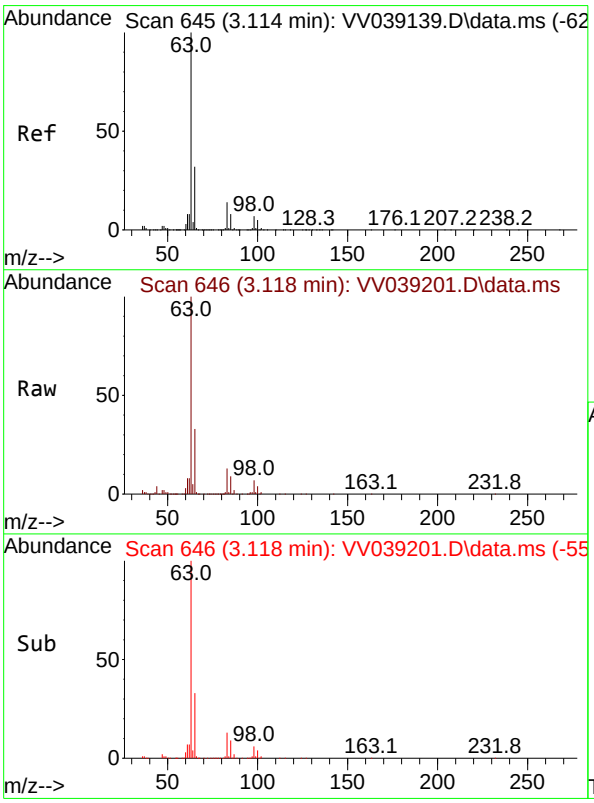

#23
Vinyl Acetate
Concen: 90.069 ug/l
RT: 3.188 min Scan# 6
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion: 43 Resp: 2213428

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.1 | 8.4 | 12.6 |

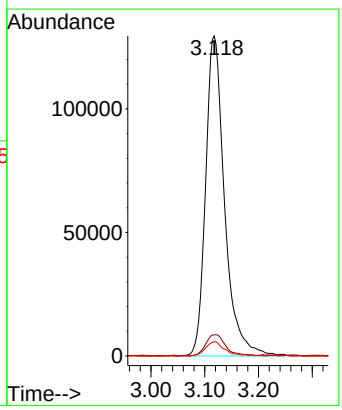


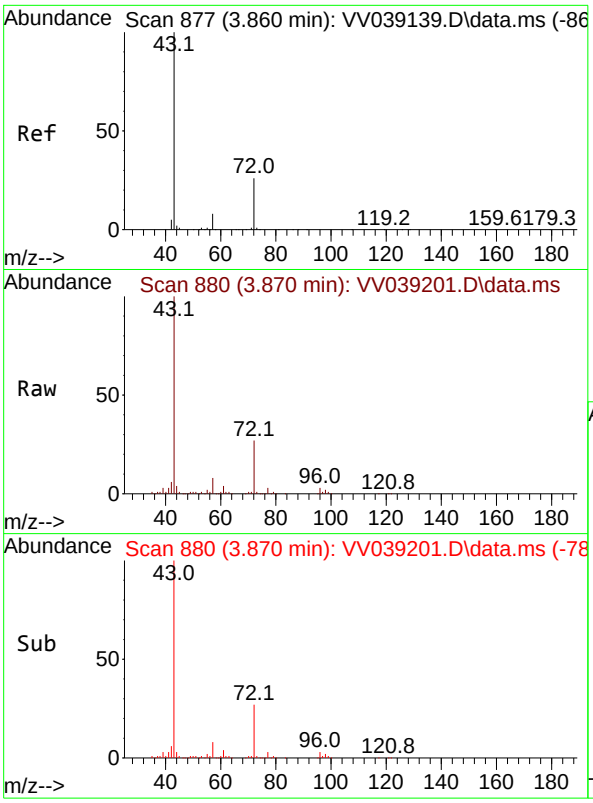




#24
1,1-Dichloroethane
Concen: 18.469 ug/l
RT: 3.118 min Scan# 646
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 63 Resp: 317281

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.6 | 3.4 | 10.2 |
| 100 | 4.4 | 2.2 | 6.6 |



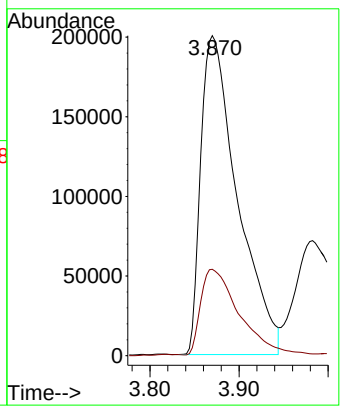


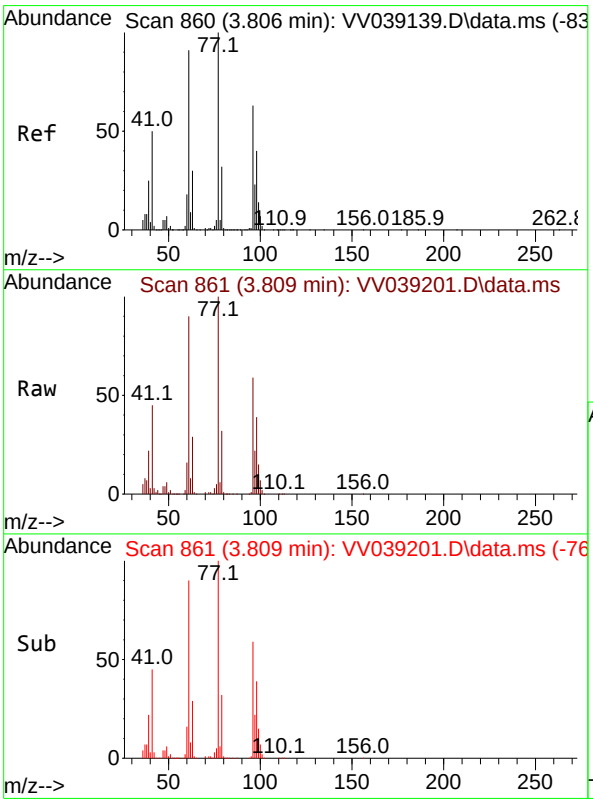

#25
2-Butanone
Concen: 90.944 ug/l
RT: 3.870 min Scan# 8
Delta R.T. 0.010 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion: 43 Resp: 574606

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 26.7 | 21.0 | 31.6 |

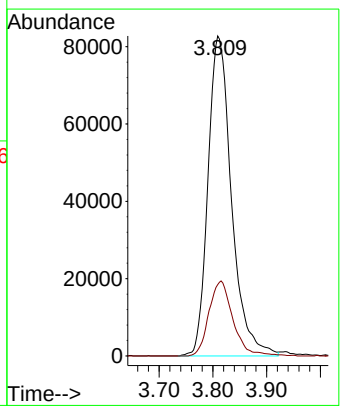


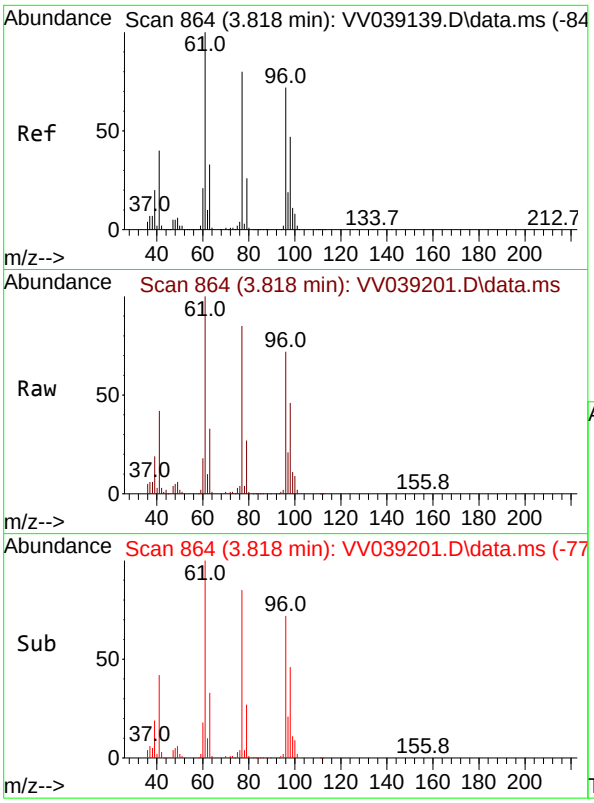




#26
2,2-Dichloropropane
Concen: 16.540 ug/l
RT: 3.809 min Scan# 861
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 77 Resp: 251937

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.9 | 11.6 | 34.7 |



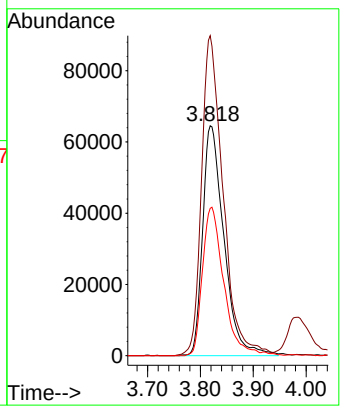


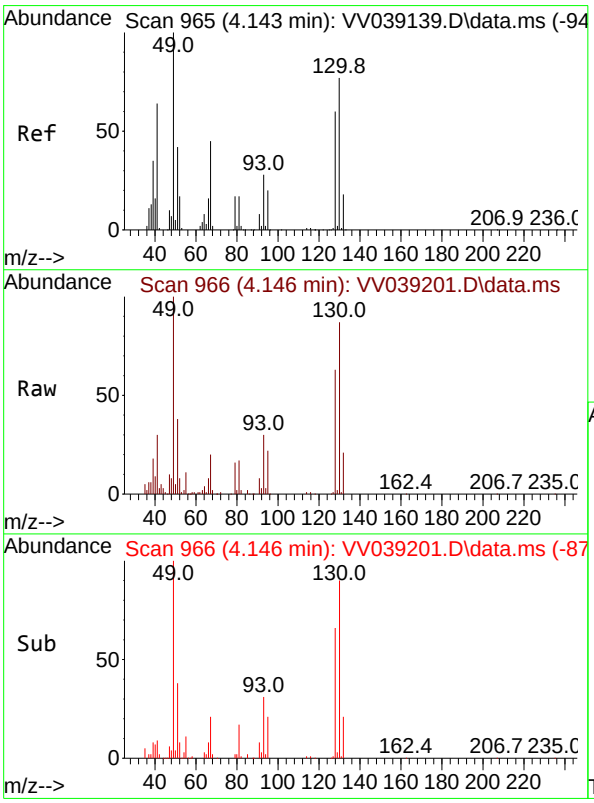

#27
cis-1,2-Dichloroethene
Concen: 18.710 ug/l
RT: 3.818 min Scan# 8
Delta R.T. 0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion: 96 Resp: 180565

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 140.9 | 0.0 | 286.4 |
| 98 | 64.0 | 0.0 | 126.6 |

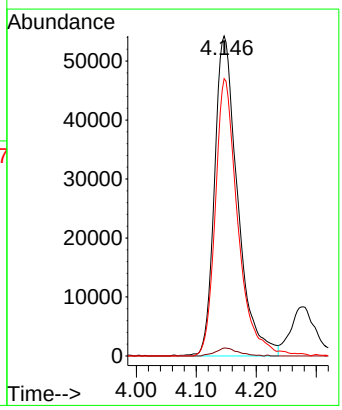


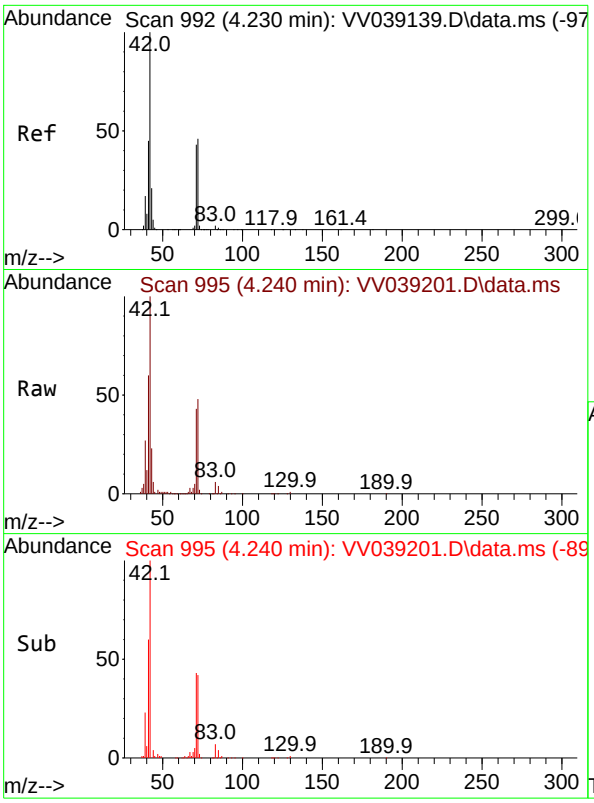




#28
Bromochloromethane
Concen: 19.144 ug/l
RT: 4.146 min Scan# 966
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 49 Resp: 145186

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.4 | 0.0 | 4.2 |
| 130 | 84.7 | 60.2 | 90.2 |



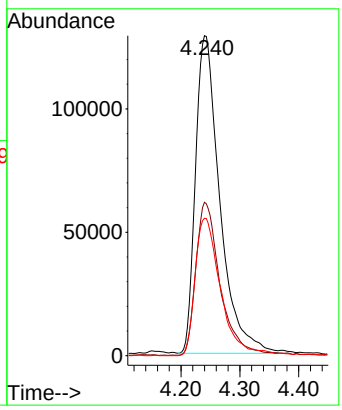


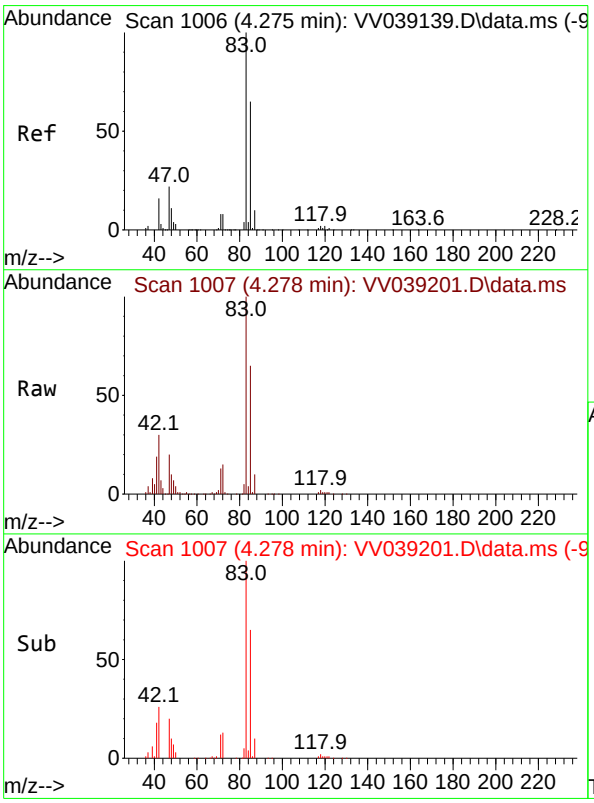

#29
Tetrahydrofuran
Concen: 93.372 ug/l
RT: 4.240 min Scan# 9
Delta R.T. 0.010 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion: 42 Resp: 369264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 48.1 | 36.3 | 54.5 |
| 71 | 44.6 | 34.3 | 51.5 |

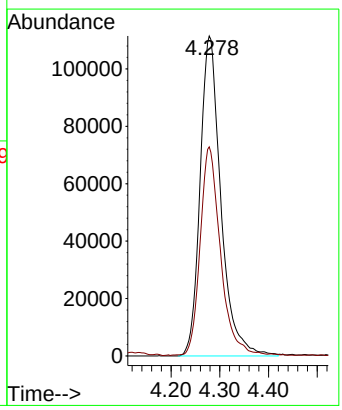


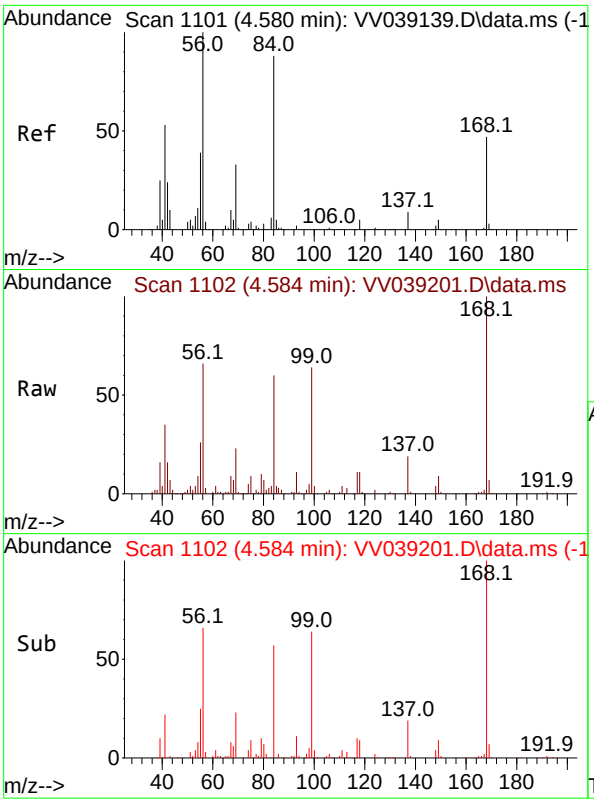




#30
Chloroform
Concen: 18.380 ug/l
RT: 4.278 min Scan# 1007
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 83 Resp: 329719

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.0 | 52.1 | 78.1 |



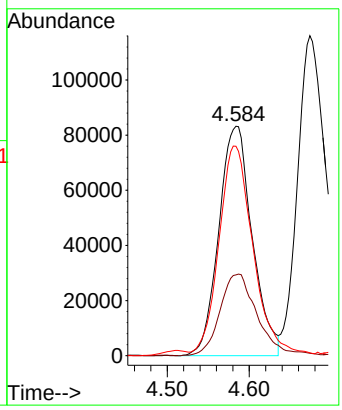


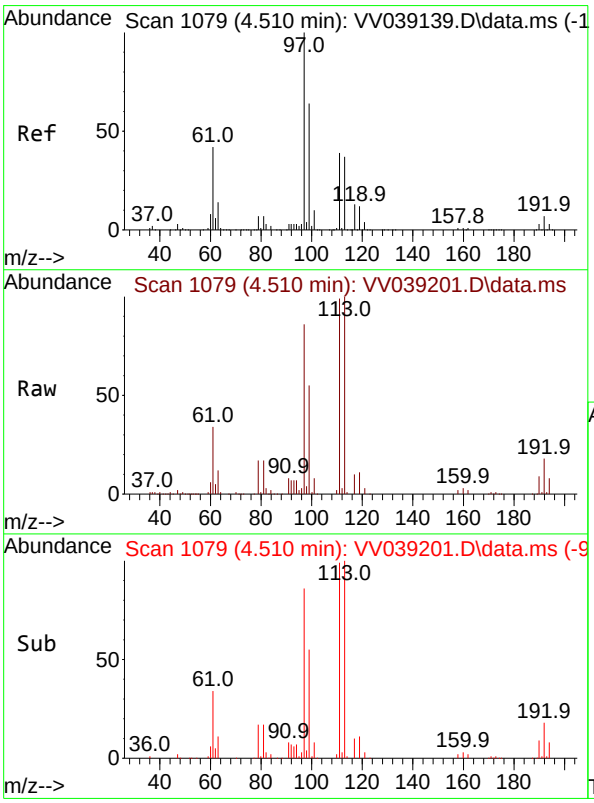

#31
Cyclohexane
Concen: 16.730 ug/l
RT: 4.584 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion: 56 Resp: 235441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 35.2 | 26.2 | 39.2 |
| 84 | 89.0 | 70.3 | 105.5 |

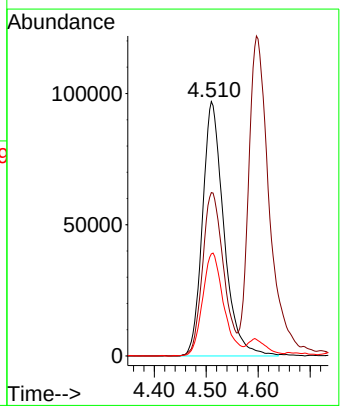


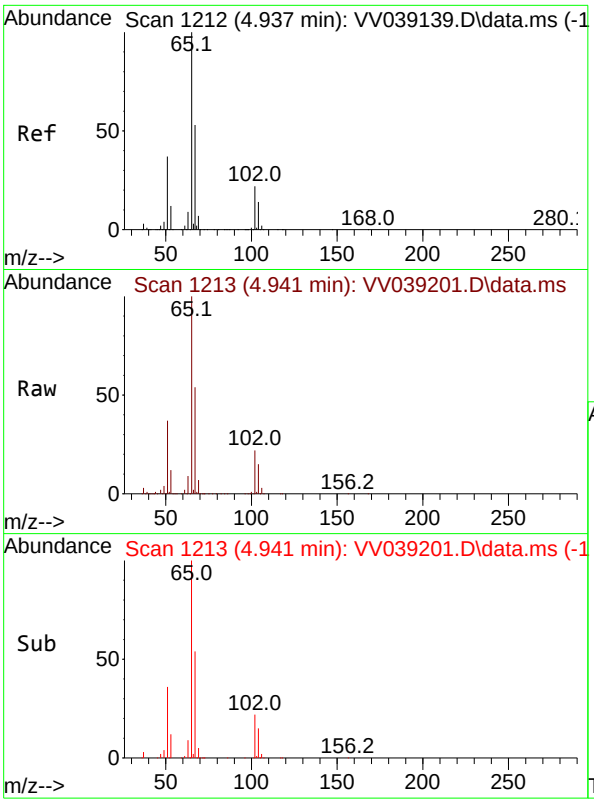




#32
1,1,1-Trichloroethane
Concen: 17.839 ug/l
RT: 4.510 min Scan# 1079
Delta R.T. 0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 97 Resp: 277050

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 62.7 | 49.6 | 74.4 |
| 61 | 39.8 | 34.5 | 51.7 |



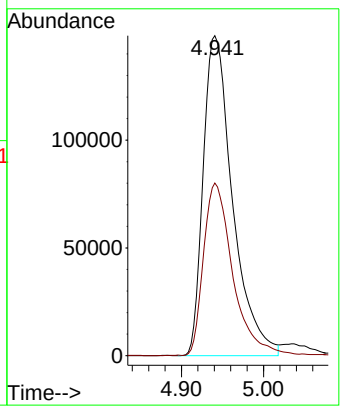


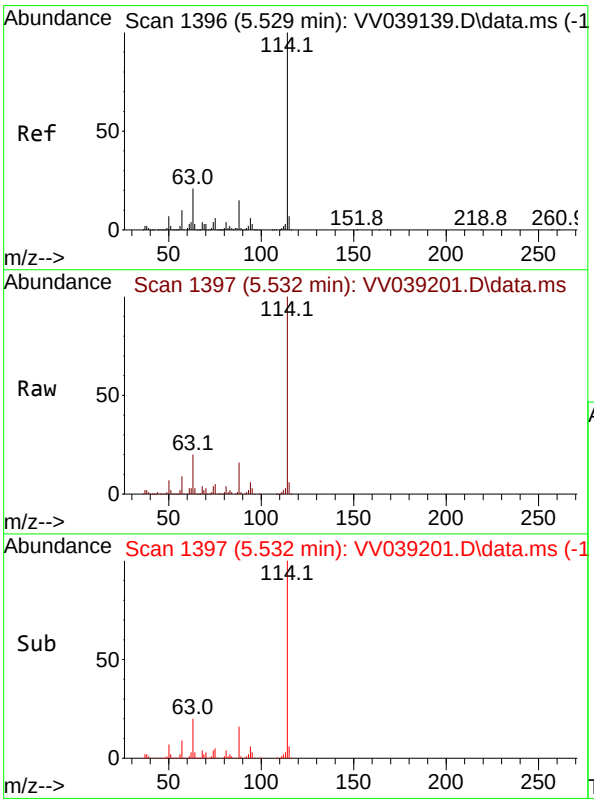

#33
1,2-Dichloroethane-d4
Concen: 46.942 ug/l
RT: 4.941 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion: 65 Resp: 370387

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.5 | 0.0 | 107.0 |

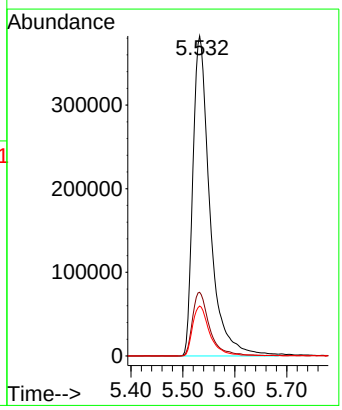


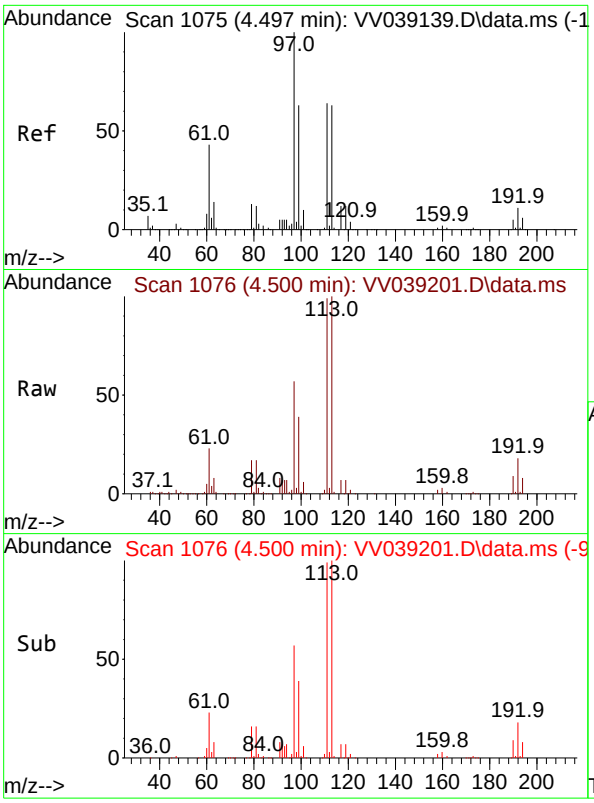




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 1397
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion:114 Resp: 871681

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.9 | 0.0 | 42.6 |
| 88 | 15.6 | 0.0 | 30.8 |



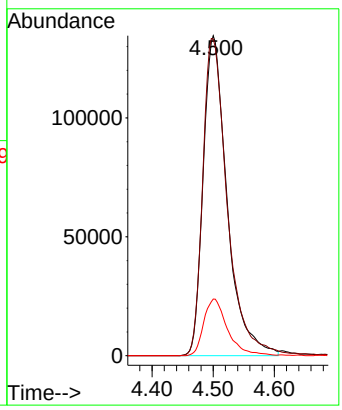


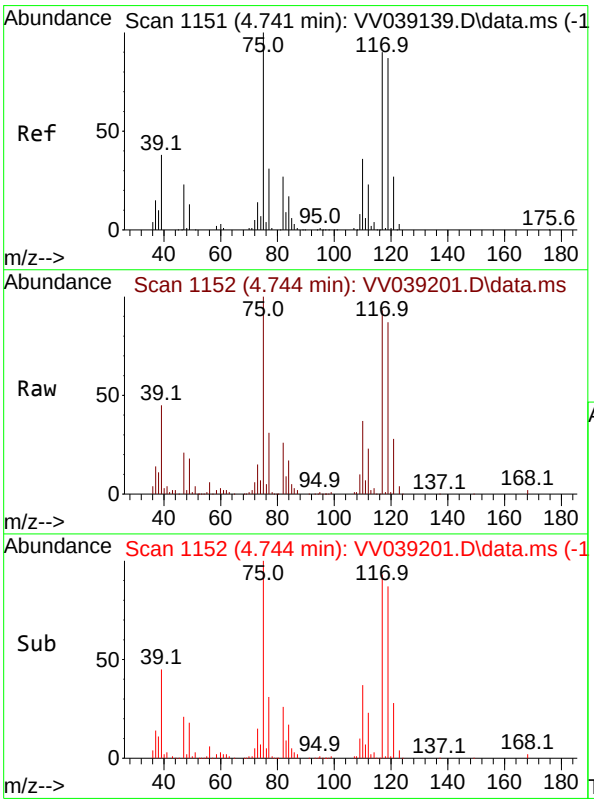

#35
Dibromofluoromethane
Concen: 52.251 ug/l
RT: 4.500 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion:113 Resp: 366158

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.4 | 82.4 | 123.6 |
| 192 | 17.6 | 13.8 | 20.8 |

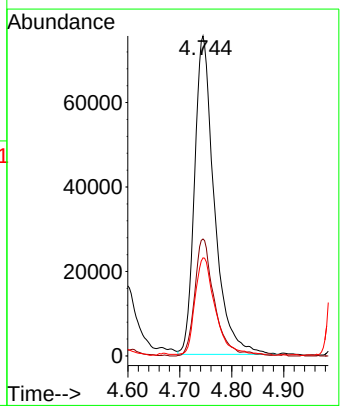


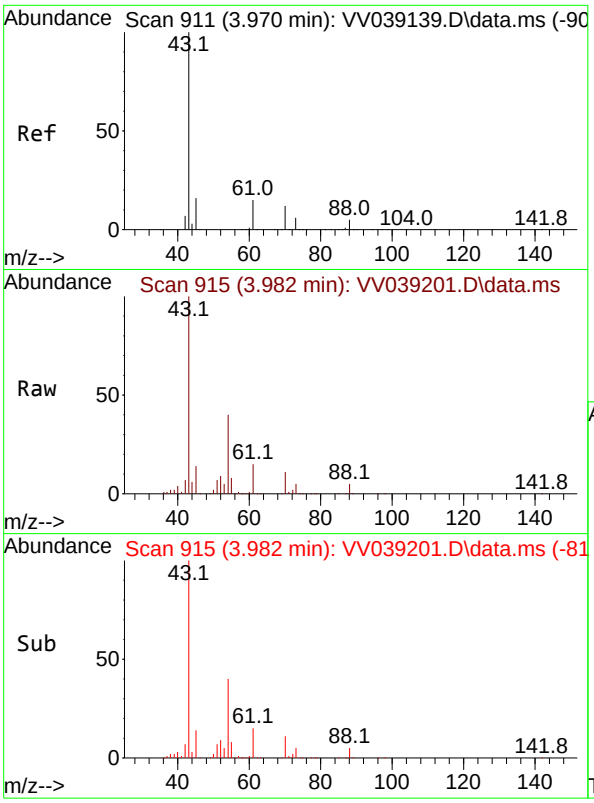




#36
1,1-Dichloropropene
Concen: 18.828 ug/l
RT: 4.744 min Scan# 1152
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 75 Resp: 199480

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.7 | 18.1 | 54.1 |
| 77 | 30.4 | 24.8 | 37.2 |



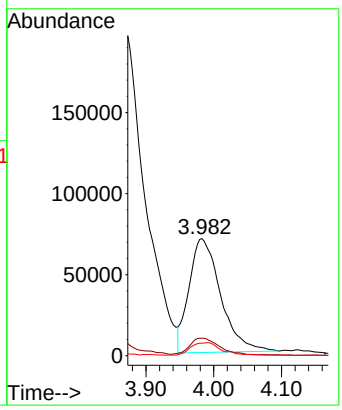


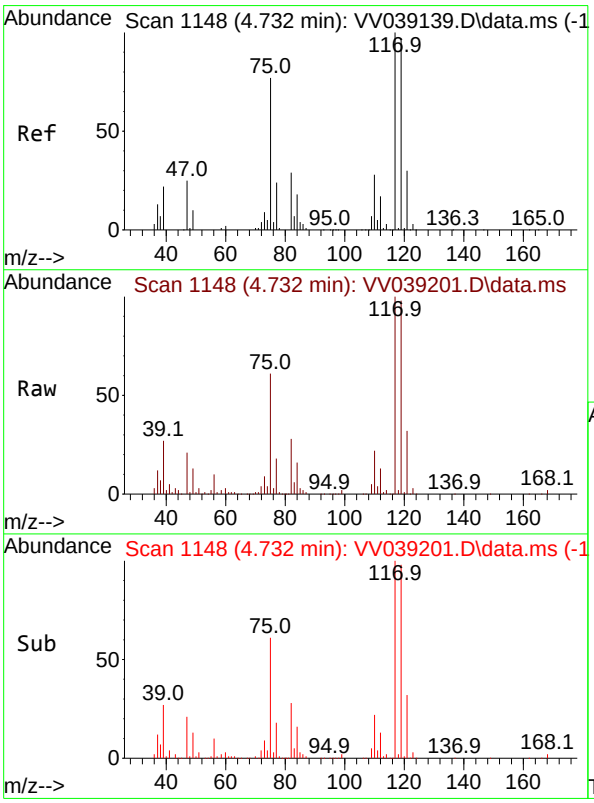

#37
Ethyl Acetate
Concen: 17.728 ug/l
RT: 3.982 min Scan# 91
Delta R.T. 0.012 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion: 43 Resp: 227906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.8 | 10.3 | 15.5 |
| 70 | 10.8 | 8.0 | 12.0 |

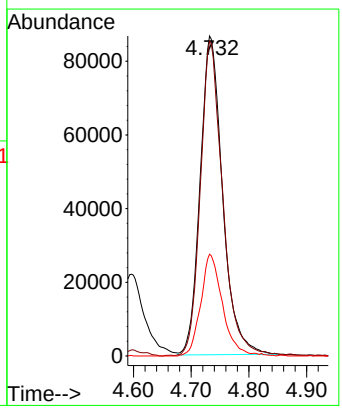


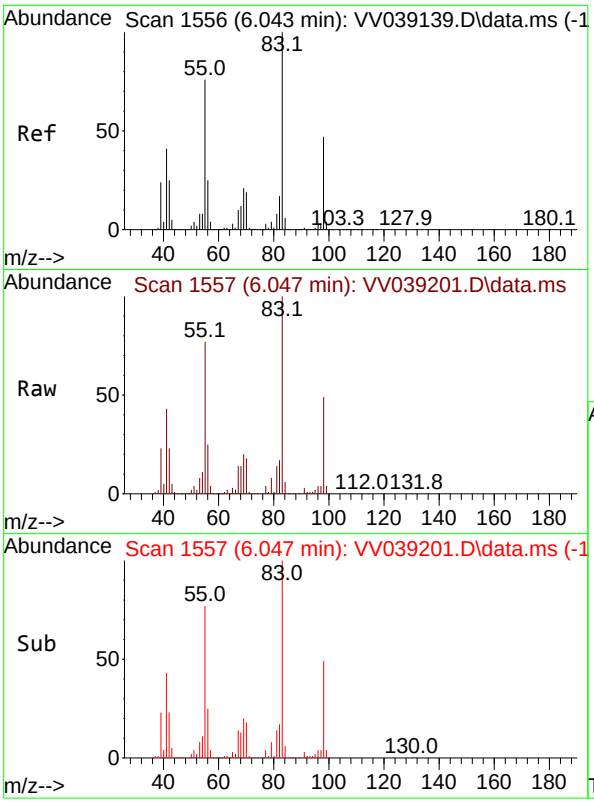




#38
Carbon Tetrachloride
Concen: 18.006 ug/l
RT: 4.732 min Scan# 1148
Delta R.T. -0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion:117 Resp: 233151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 98.5 | 77.2 | 115.8 |
| 121 | 32.0 | 24.2 | 36.2 |



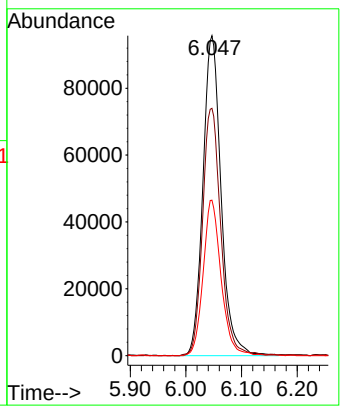


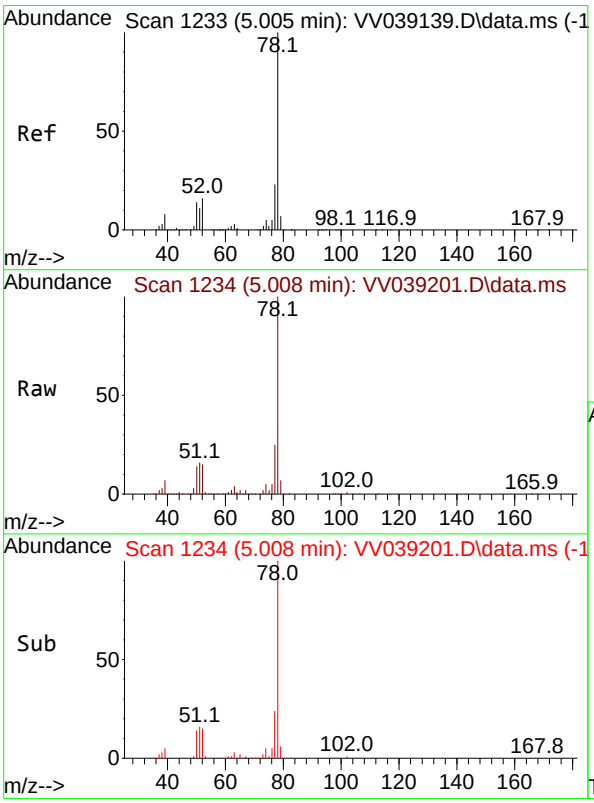

#39
Methylcyclohexane
Concen: 16.976 ug/l
RT: 6.047 min Scan# 1
Delta R.T. 0.004 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion: 83 Resp: 217201

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 77.3 | 60.5 | 90.7 |
| 98 | 48.6 | 37.8 | 56.6 |

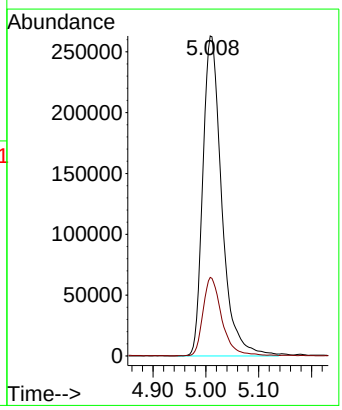


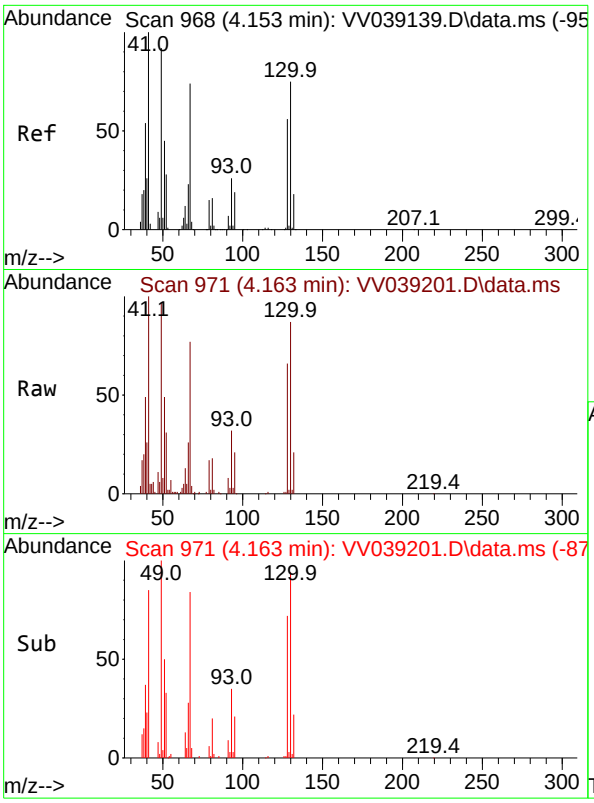




#40
Benzene
Concen: 18.968 ug/l
RT: 5.008 min Scan# 1234
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 78 Resp: 654407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.5 | 18.7 | 28.1 |



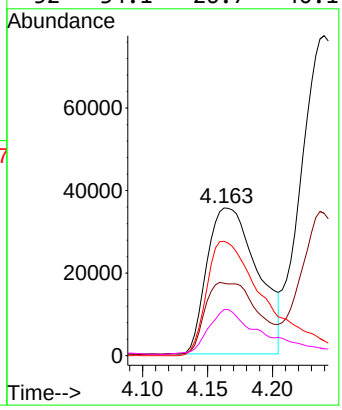


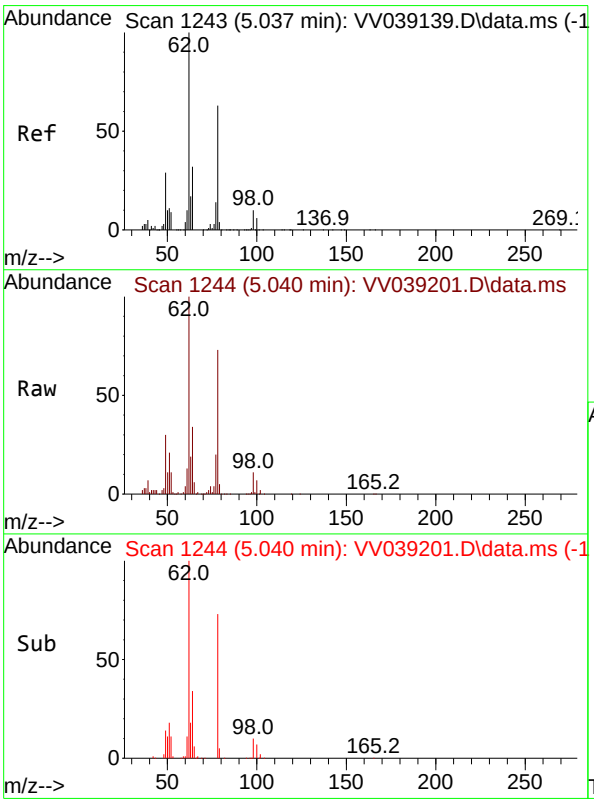

#41
Methacrylonitrile
Concen: 17.814 ug/l
RT: 4.163 min Scan# 9
Delta R.T. 0.010 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion: 41 Resp: 96114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 51.5 | 42.2 | 63.2 |
| 67 | 96.6 | 67.9 | 101.9 |
| 52 | 34.1 | 26.7 | 40.1 |

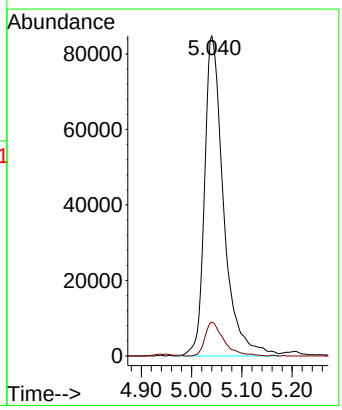


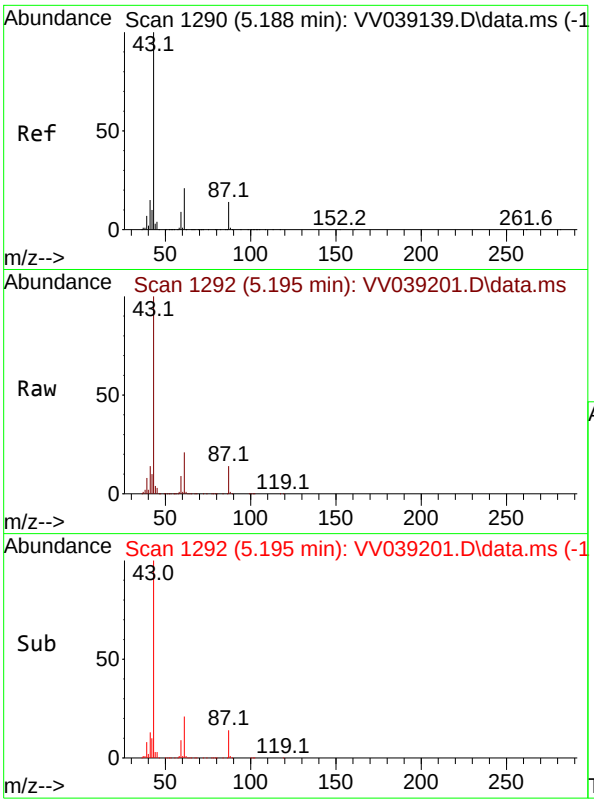




#42
1,2-Dichloroethane
Concen: 18.489 ug/l
RT: 5.040 min Scan# 1244
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 62 Resp: 223503

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.4 | 0.0 | 19.2 |



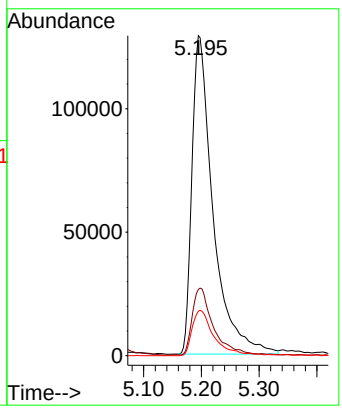


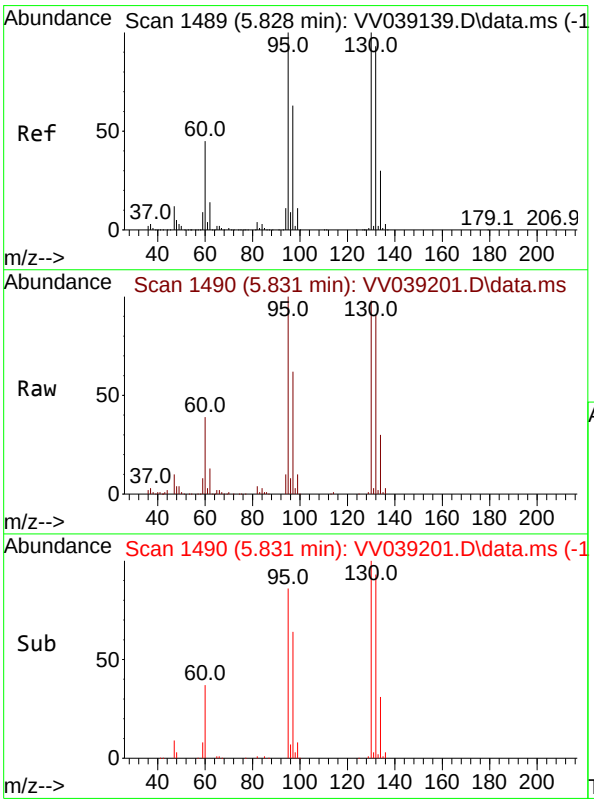

#43
Isopropyl Acetate
Concen: 18.710 ug/l
RT: 5.195 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion: 43 Resp: 327971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 20.5 | 15.9 | 23.9 |
| 87 | 14.8 | 11.0 | 16.6 |

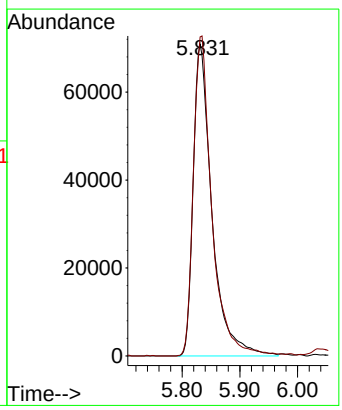


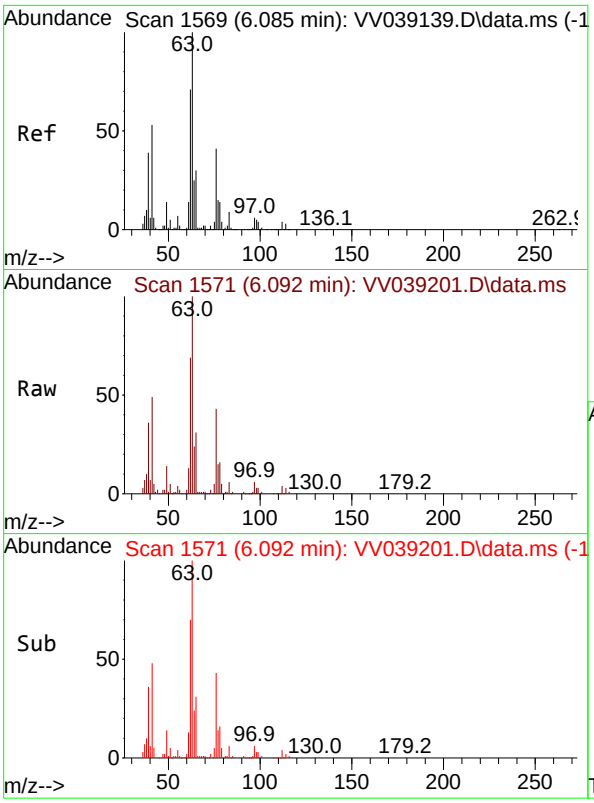




#44
Trichloroethene
Concen: 20.116 ug/l
RT: 5.831 min Scan# 1490
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion:130 Resp: 160144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 102.2 | 0.0 | 199.2 |



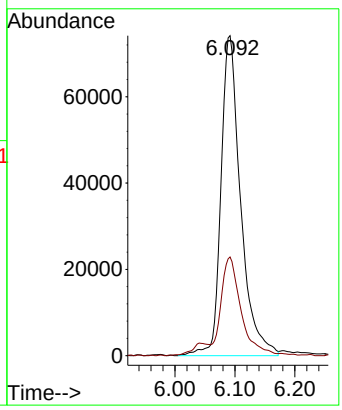


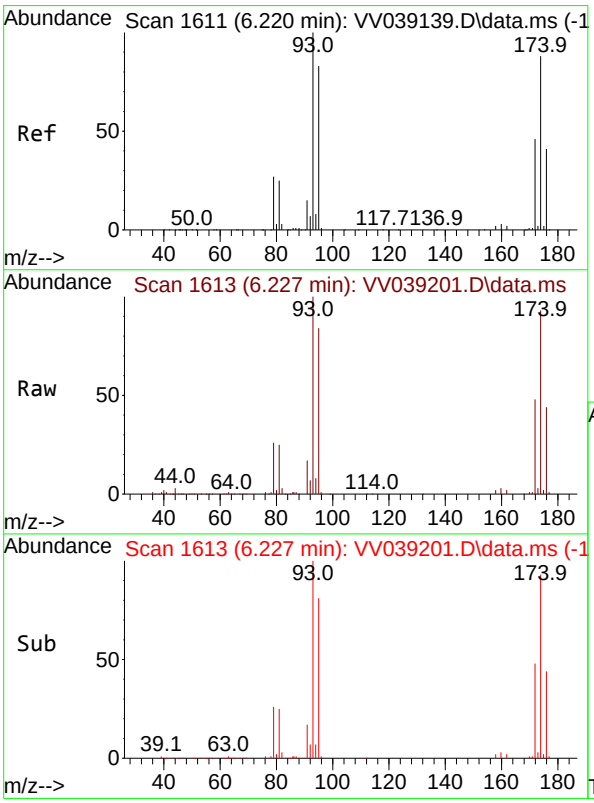

#45
1,2-Dichloropropane
Concen: 19.664 ug/l
RT: 6.092 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion: 63 Resp: 168622

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.6 | 23.7 | 35.5 |

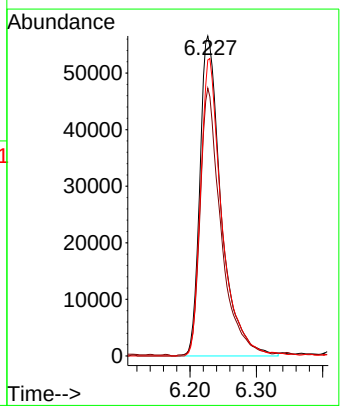


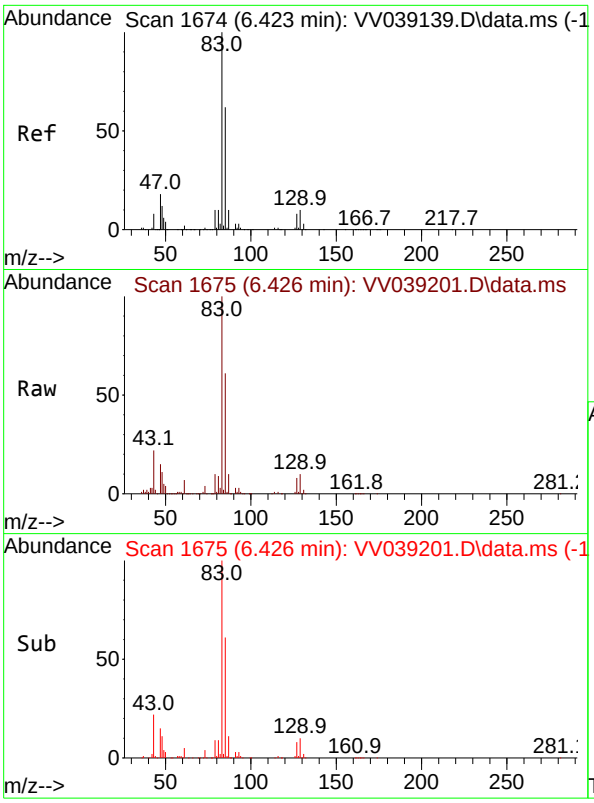




#46
Dibromomethane
Concen: 19.221 ug/l
RT: 6.227 min Scan# 1613
Delta R.T. 0.006 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 93 Resp: 126156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 81.9 | 65.5 | 98.3 |
| 174 | 92.1 | 69.0 | 103.4 |



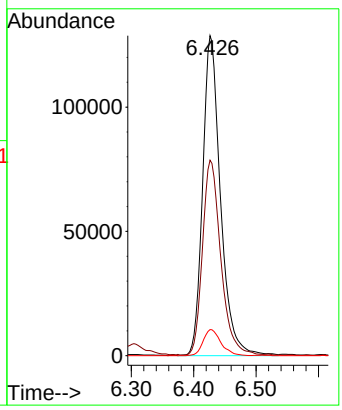


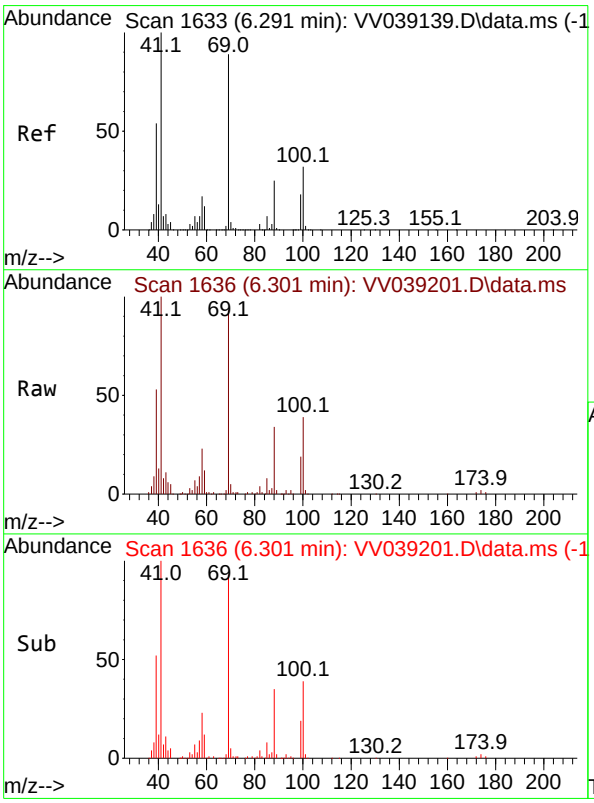

#47
Bromodichloromethane
Concen: 18.920 ug/l
RT: 6.426 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion: 83 Resp: 256722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 60.8 | 49.7 | 74.5 |
| 127 | 8.2 | 6.6 | 9.8 |

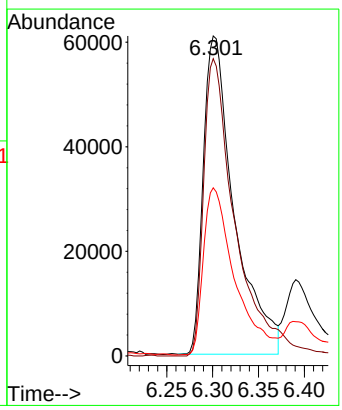


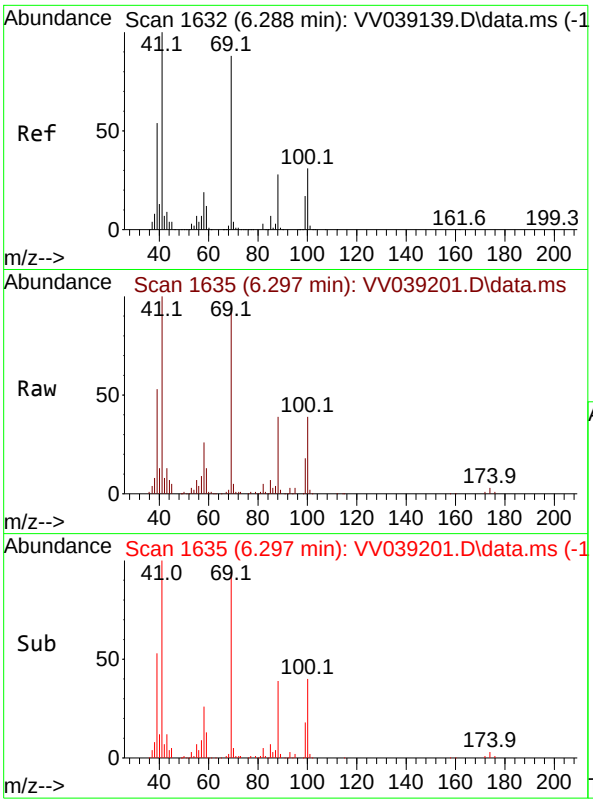




#48
Methyl methacrylate
Concen: 17.992 ug/l
RT: 6.301 min Scan# 1636
Delta R.T. 0.010 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 41 Resp: 142959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 96.3 | 72.4 | 108.6 |
| 39 | 53.5 | 42.5 | 63.7 |



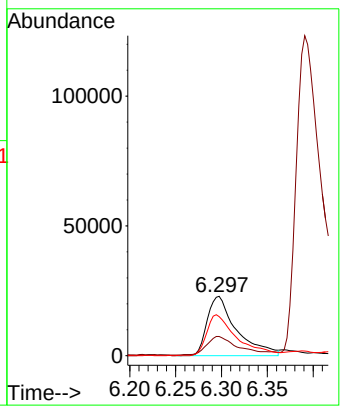


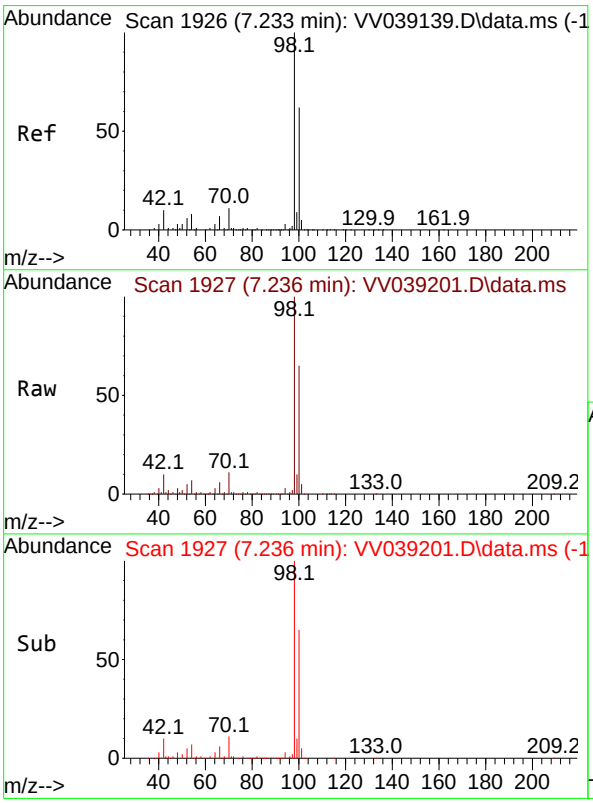

#49
1,4-Dioxane
Concen: 398.926 ug/l
RT: 6.297 min Scan# 1
Delta R.T. 0.010 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion: 88 Resp: 51154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 34.4 | 25.1 | 37.7 |
| 58 | 70.2 | 53.6 | 80.4 |

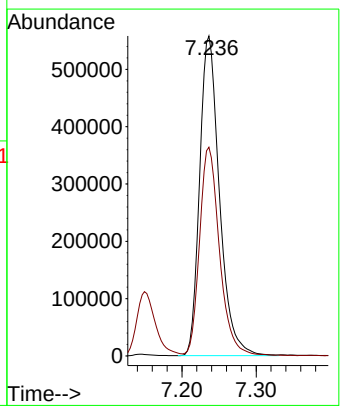


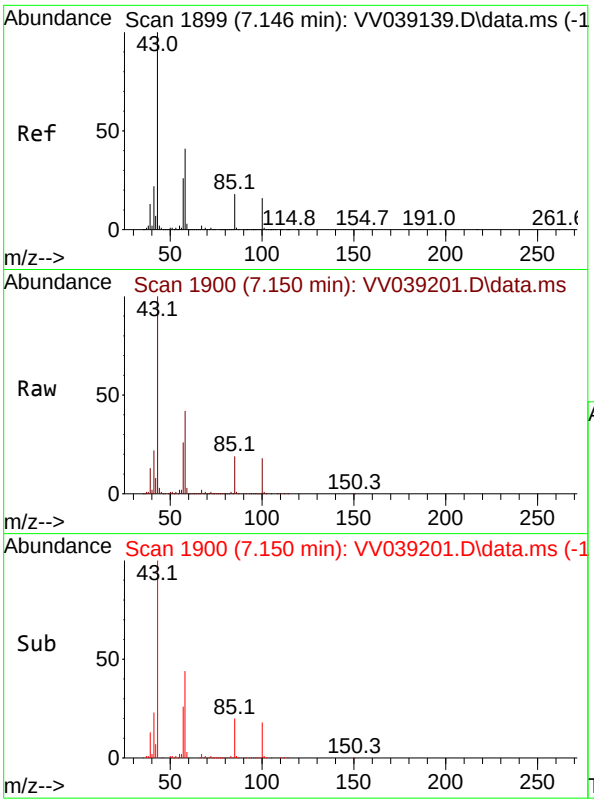




#50
Toluene-d8
Concen: 50.194 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 98 Resp: 1033075

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.4 | 52.2 | 78.2 |



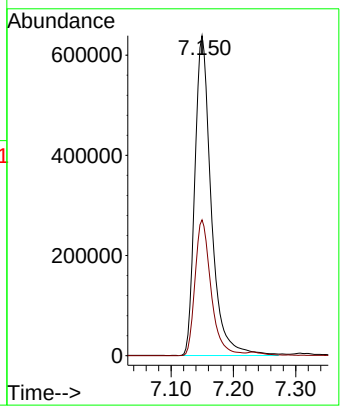


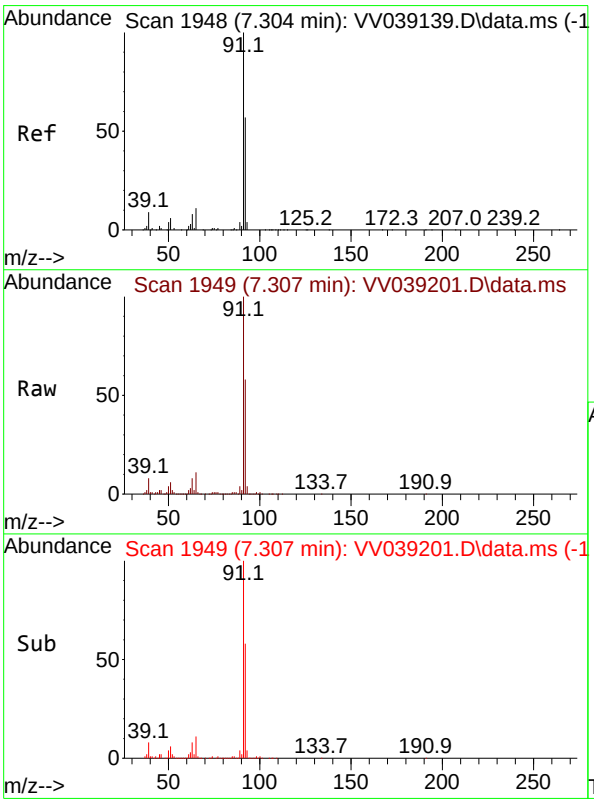

#51
4-Methyl-2-Pentanone
Concen: 101.045 ug/l
RT: 7.150 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion: 43 Resp: 1165241

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 41.5 | 32.3 | 48.5 |

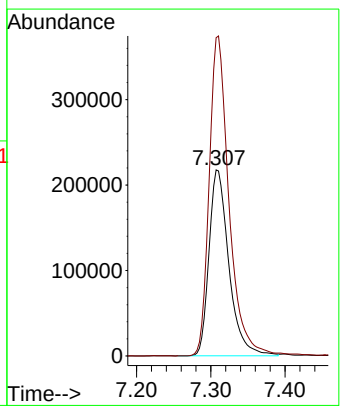


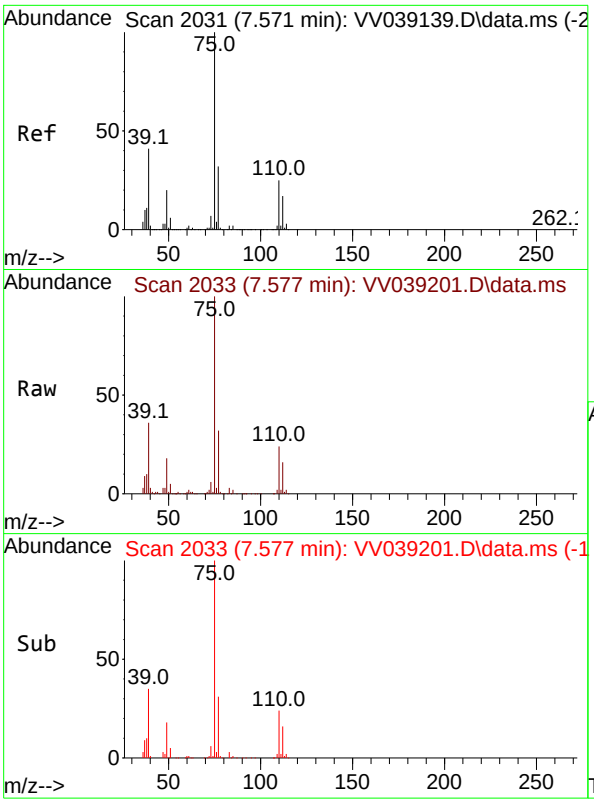




#52
Toluene
Concen: 20.259 ug/l
RT: 7.307 min Scan# 1949
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 92 Resp: 405246

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 171.9 | 139.2 | 208.8 |



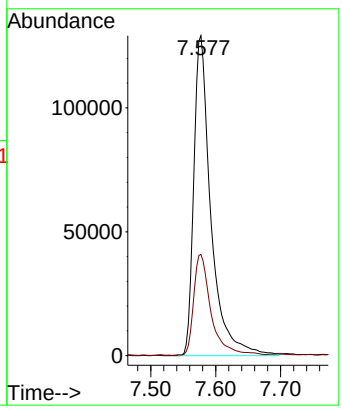


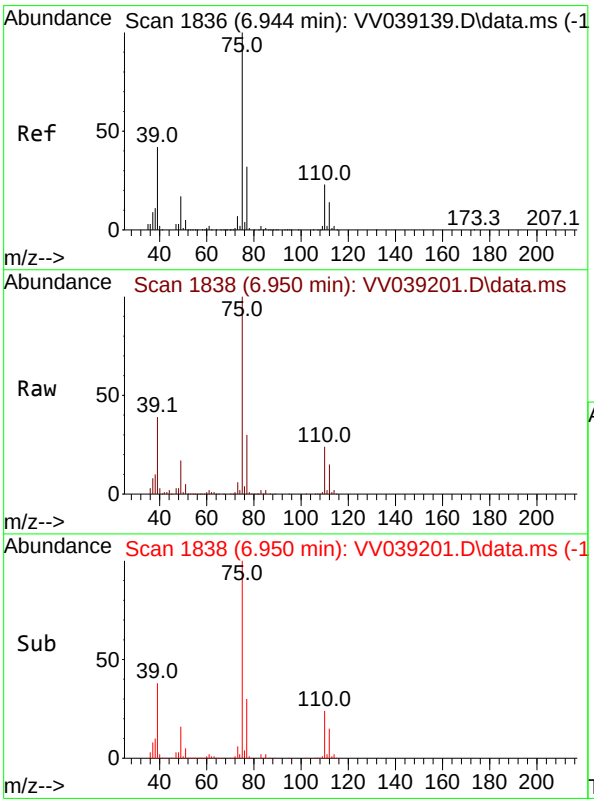

#53
t-1,3-Dichloropropene
Concen: 20.059 ug/l
RT: 7.577 min Scan# 2
Delta R.T. 0.006 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion: 75 Resp: 237200

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.4 | 25.9 | 38.9 |

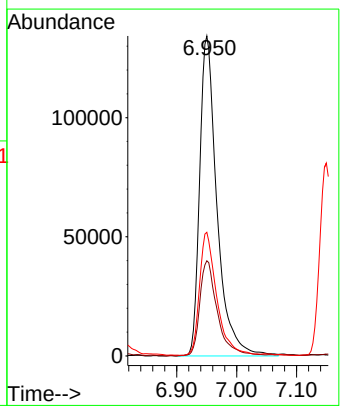


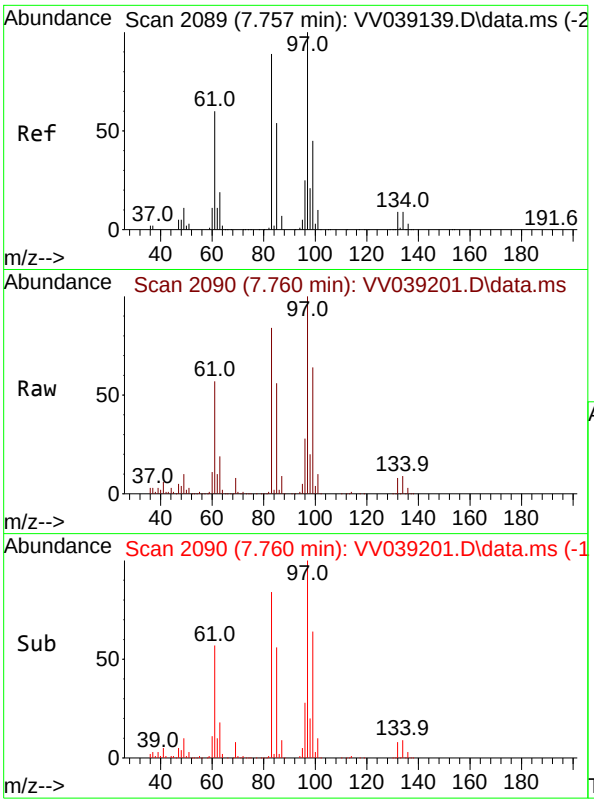




#54
cis-1,3-Dichloropropene
Concen: 20.676 ug/l
RT: 6.950 min Scan# 1838
Delta R.T. 0.006 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 75 Resp: 269902

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 29.7 | 25.5 | 38.3 |
| 39 | 38.4 | 33.8 | 50.6 |



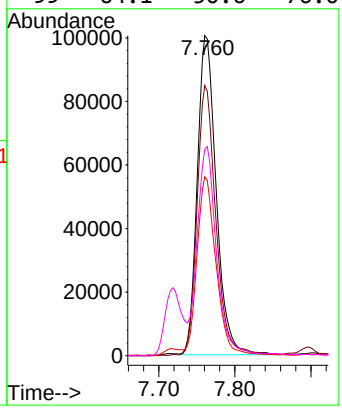


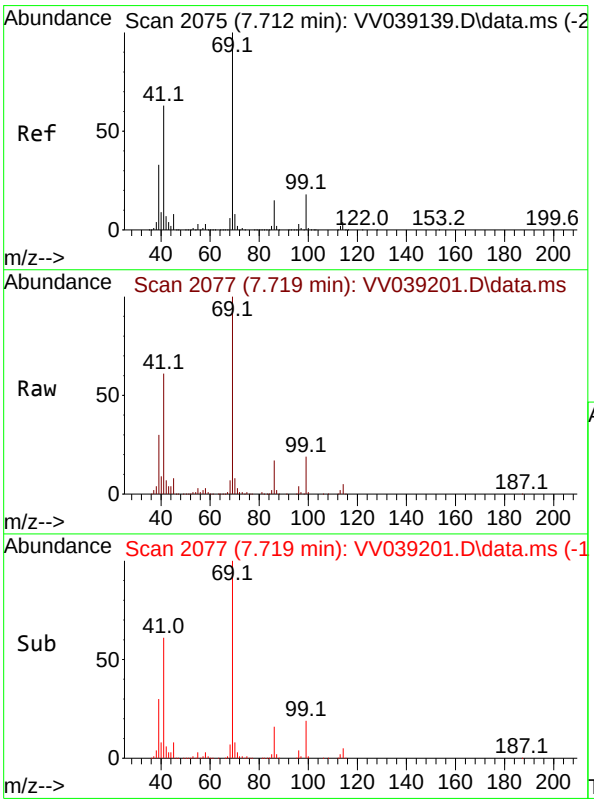

#55
1,1,2-Trichloroethane
Concen: 19.346 ug/l
RT: 7.760 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion: 97 Resp: 173521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 84.4 | 71.1 | 106.7 |
| 85 | 55.6 | 44.6 | 67.0 |
| 99 | 64.1 | 50.6 | 76.0 |

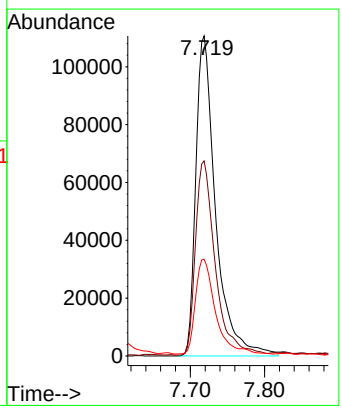


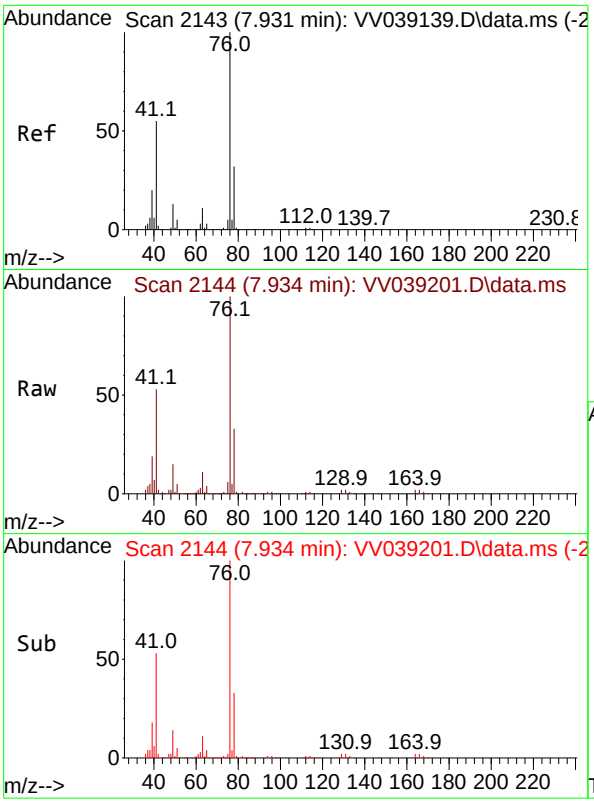




#56
Ethyl methacrylate
Concen: 19.302 ug/l
RT: 7.719 min Scan# 2077
Delta R.T. 0.007 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 69 Resp: 205595

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 60.5 | 50.7 | 76.1 |
| 39 | 29.6 | 26.0 | 39.0 |



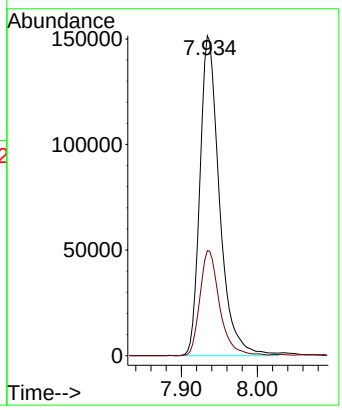


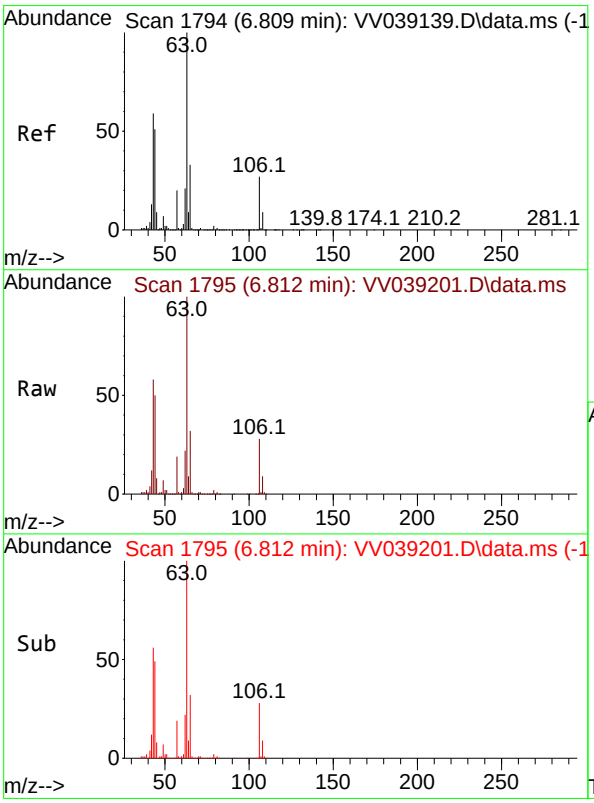

#57
1,3-Dichloropropane
Concen: 19.140 ug/l
RT: 7.934 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion: 76 Resp: 270929

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 33.2 | 26.1 | 39.1 |

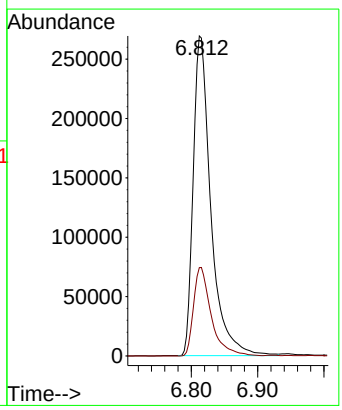


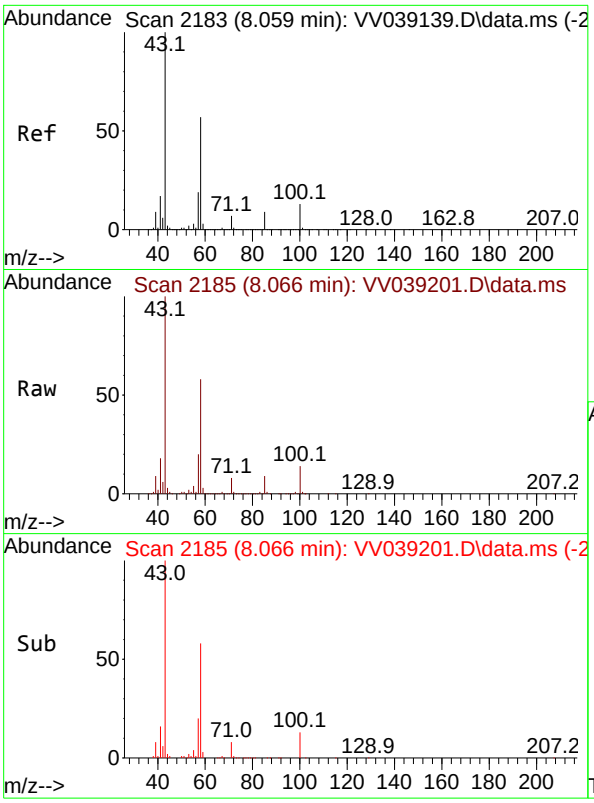




#58
2-Chloroethyl Vinyl ether
Concen: 89.200 ug/l
RT: 6.812 min Scan# 1795
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 63 Resp: 497770

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 27.8 | 22.1 | 33.1 |



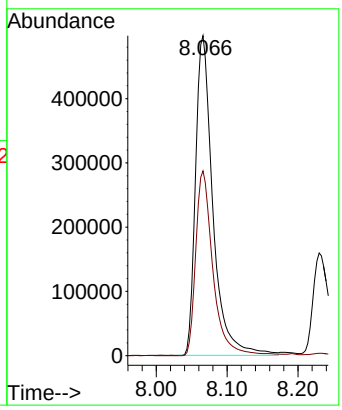


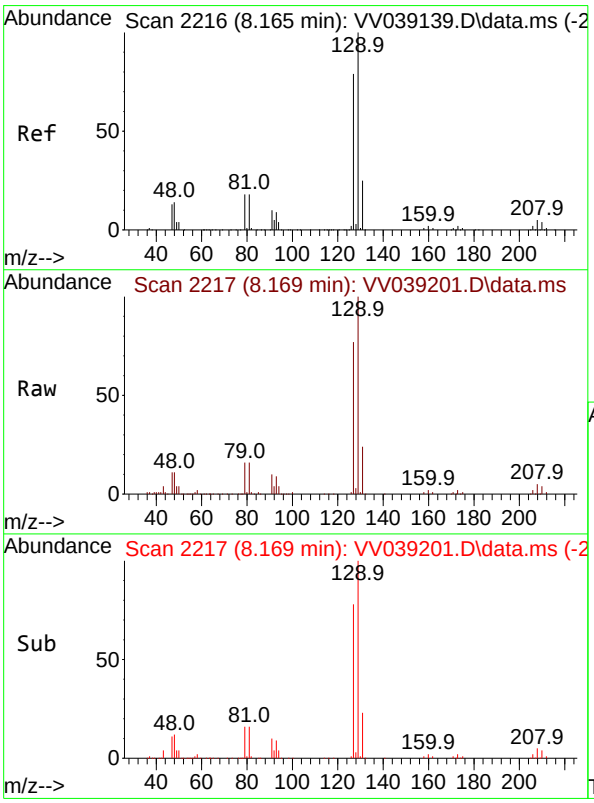

#59
2-Hexanone
Concen: 92.530 ug/l
RT: 8.066 min Scan# 2
Delta R.T. 0.007 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion: 43 Resp: 847553

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 57.5 | 28.3 | 85.0 |

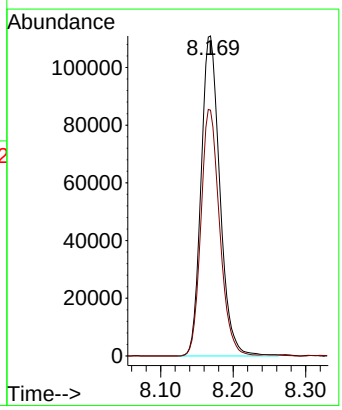


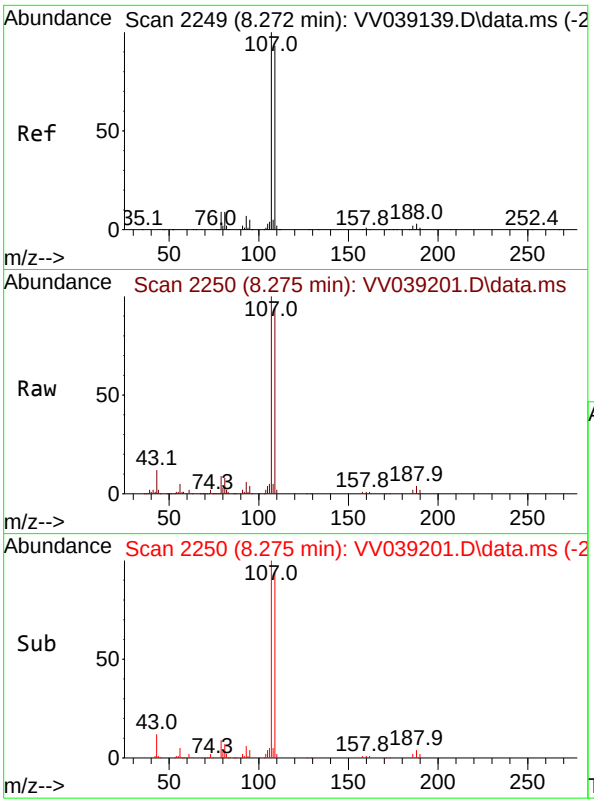




#60
Dibromochloromethane
Concen: 19.526 ug/l
RT: 8.169 min Scan# 2217
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion:129 Resp: 199559

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 76.7 | 39.3 | 117.9 |



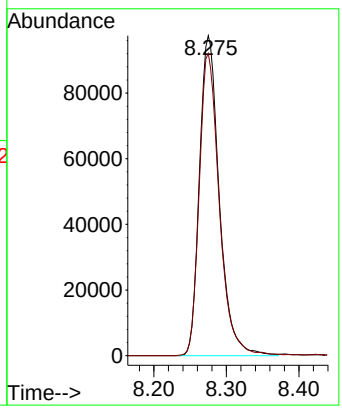


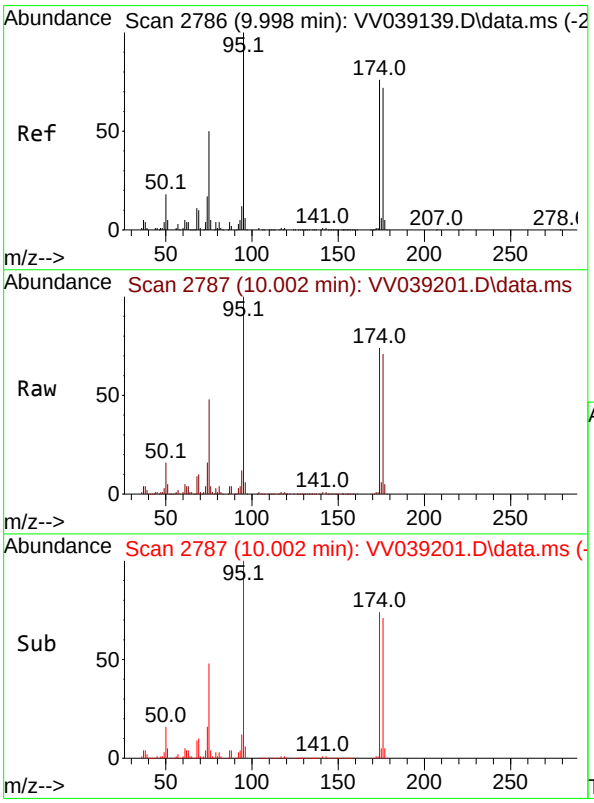

#61
1,2-Dibromoethane
Concen: 20.197 ug/l
RT: 8.275 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion:107 Resp: 185266

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 95.5 | 74.6 | 112.0 |

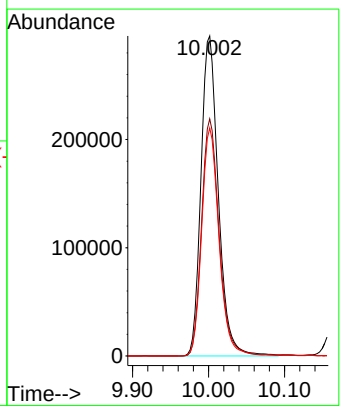


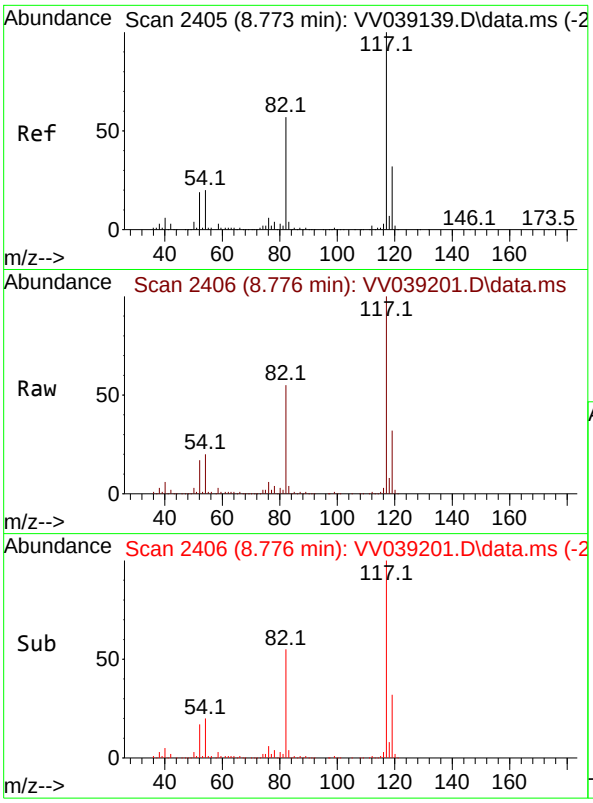




#62
4-Bromofluorobenzene
Concen: 55.374 ug/l
RT: 10.002 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 95 Resp: 469175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 75.2 | 0.0 | 150.4 |
| 176 | 71.3 | 0.0 | 144.2 |



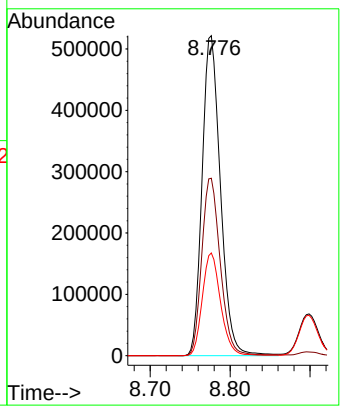


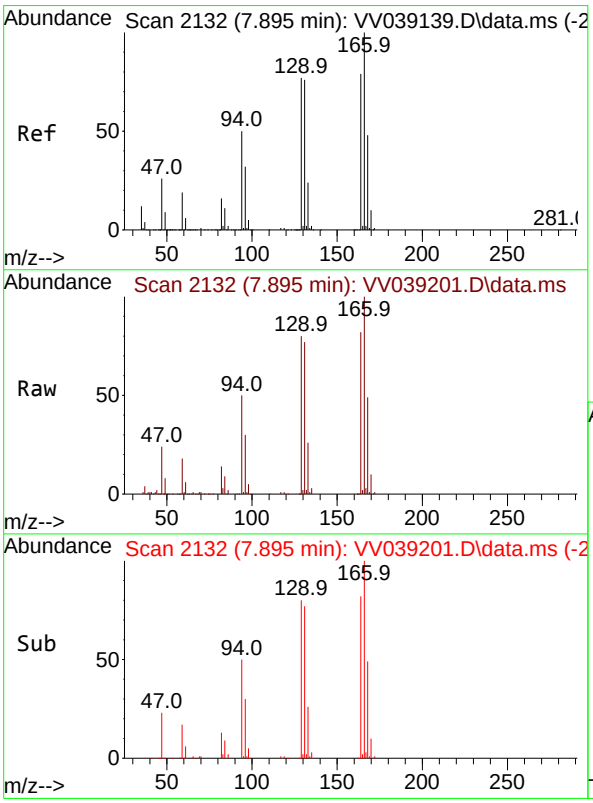

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion:117 Resp: 834845

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 55.5 | 45.4 | 68.2 |
| 119 | 32.1 | 25.6 | 38.4 |

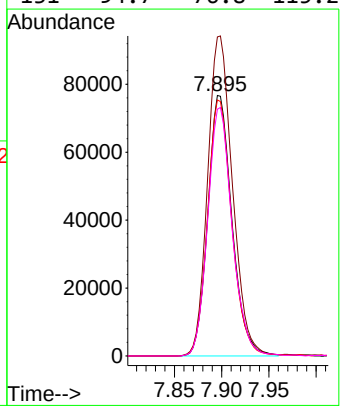


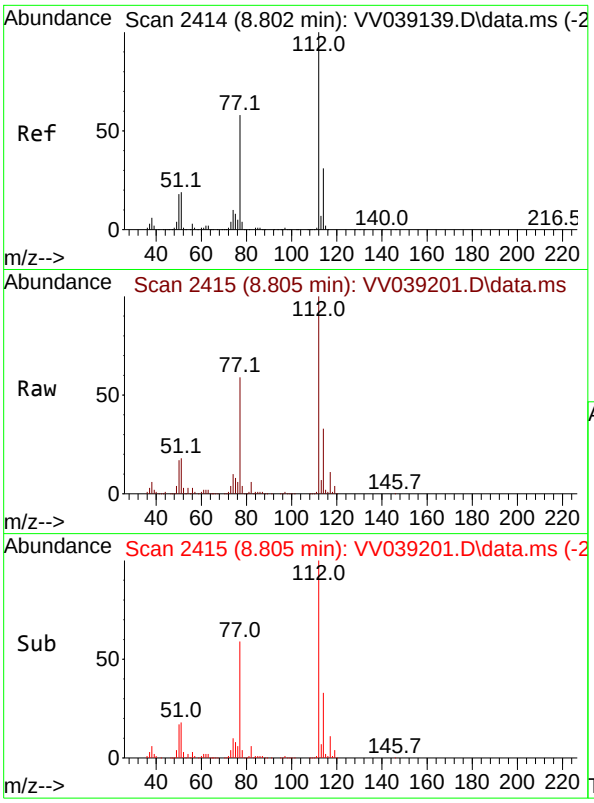




#64
Tetrachloroethene
Concen: 19.503 ug/l
RT: 7.895 min Scan# 2132
Delta R.T. 0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion:164 Resp: 136377

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 122.5 | 101.6 | 152.4 |
| 129 | 98.2 | 78.5 | 117.7 |
| 131 | 94.7 | 76.8 | 115.2 |



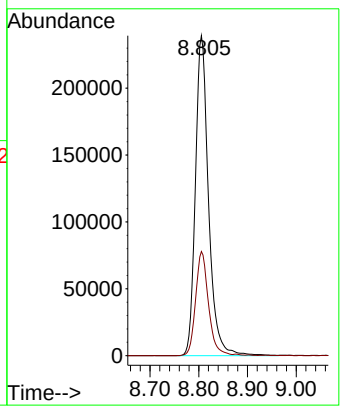


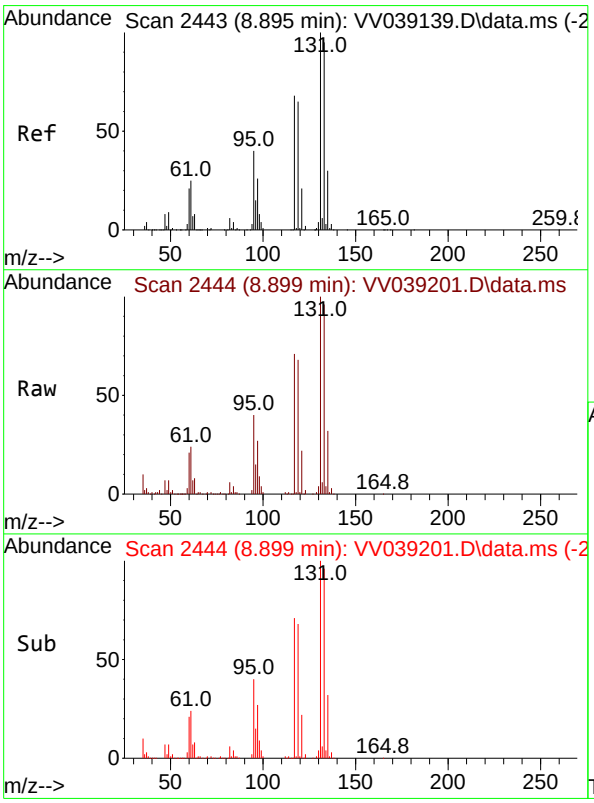

#65
Chlorobenzene
Concen: 19.299 ug/l
RT: 8.805 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion:112 Resp: 448775

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.5 | 24.6 | 37.0 |

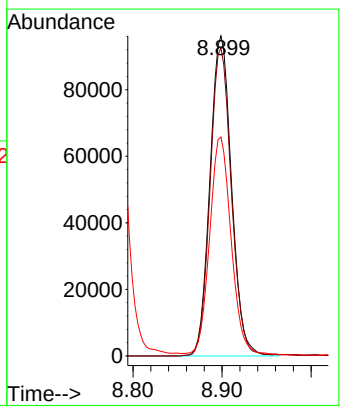


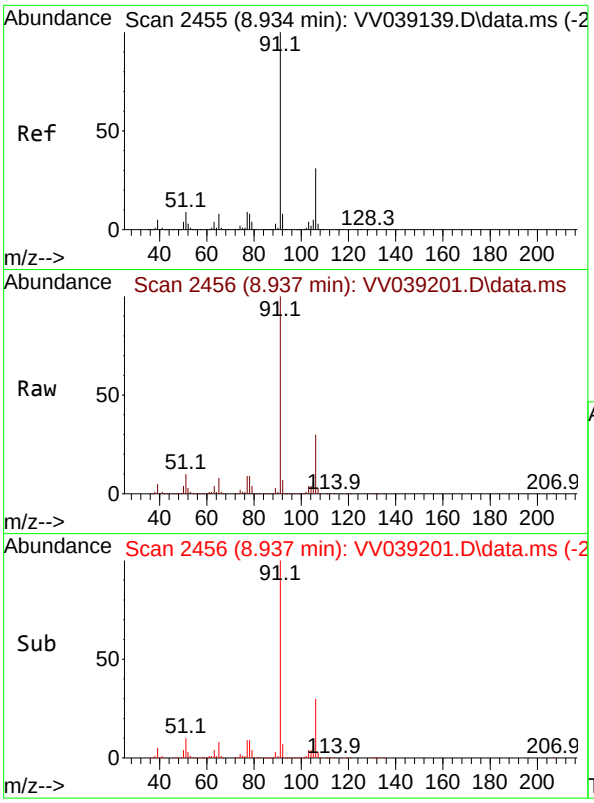




#66
1,1,1,2-Tetrachloroethane
Concen: 19.241 ug/l
RT: 8.899 min Scan# 2444
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion:131 Resp: 161669

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.1 | 47.3 | 141.8 |
| 119 | 68.1 | 33.3 | 99.8 |



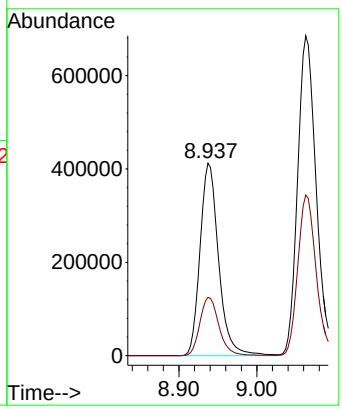


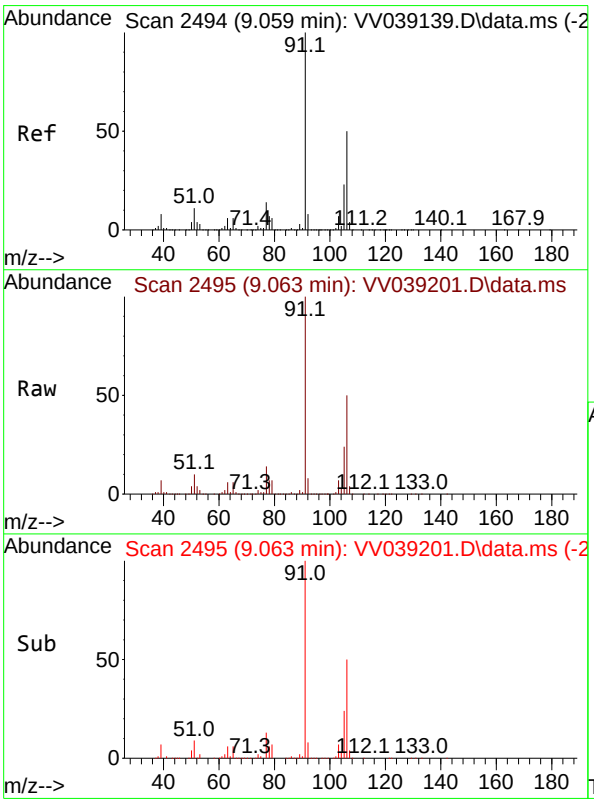

#67
Ethyl Benzene
Concen: 19.409 ug/l
RT: 8.937 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion: 91 Resp: 683210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.3 | 24.6 | 37.0 |

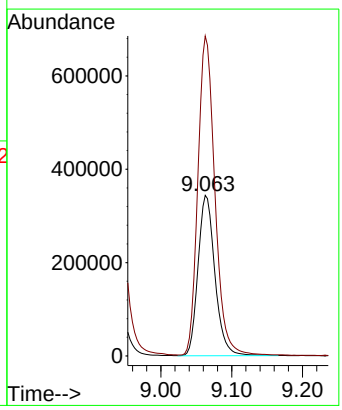


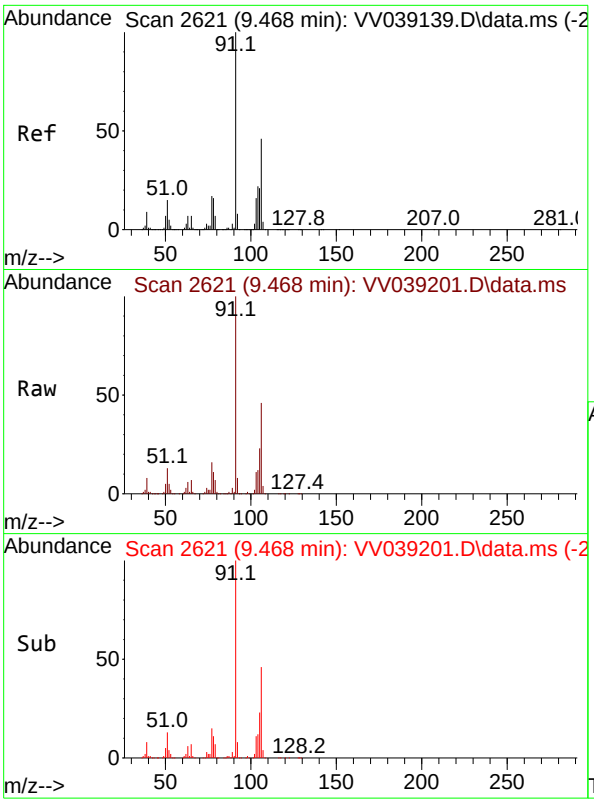




#68
m/p-Xylenes
Concen: 41.841 ug/l
RT: 9.063 min Scan# 2495
Delta R.T. 0.004 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion:106 Resp: 568444

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 200.0 | 162.5 | 243.7 |



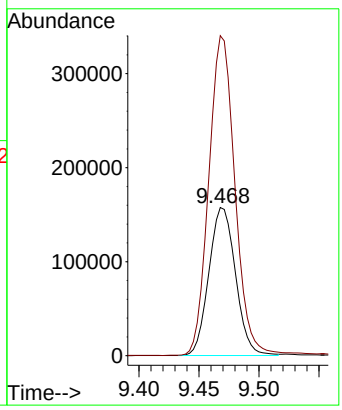


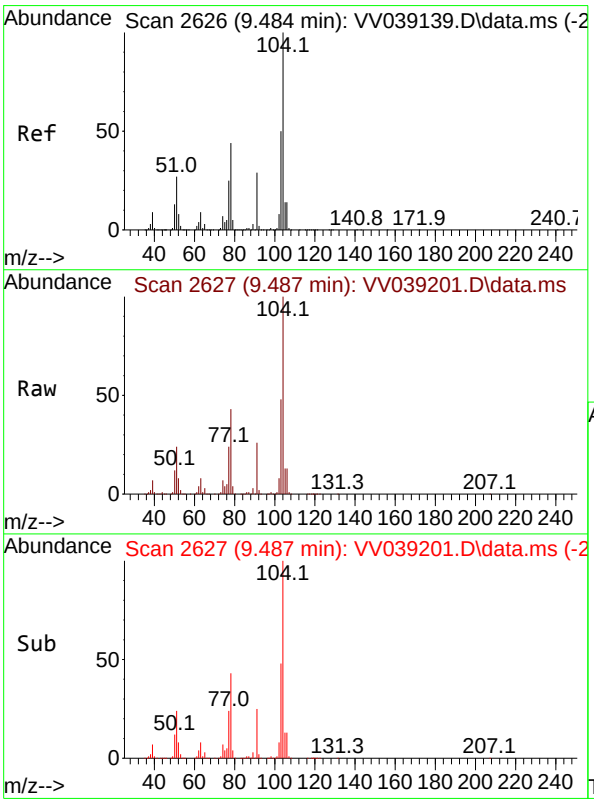

#69
o-Xylene
Concen: 20.226 ug/l
RT: 9.468 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion:106 Resp: 243305

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 213.6 | 109.1 | 327.3 |

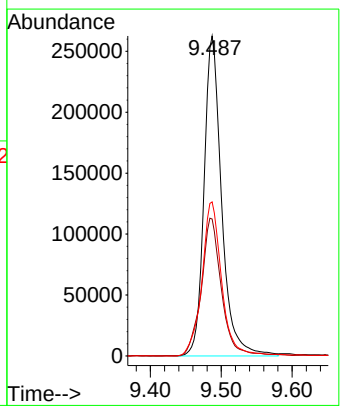


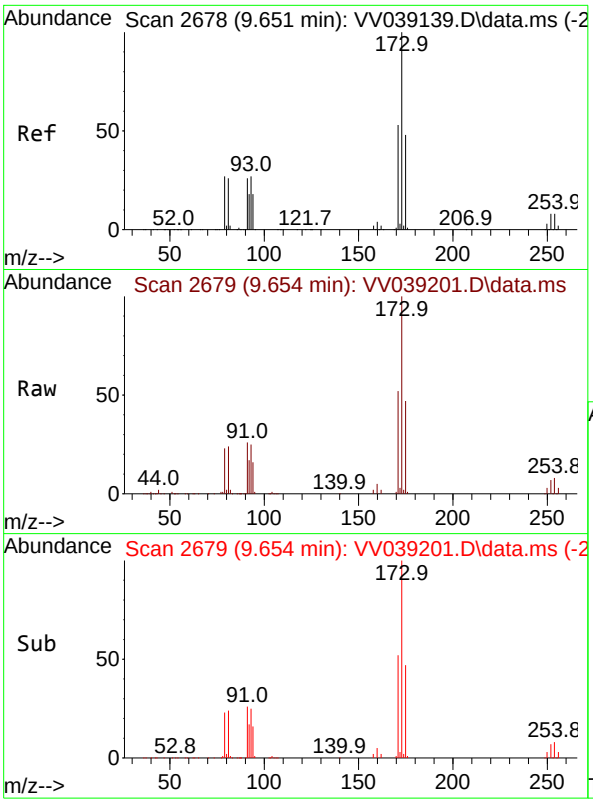




#70
Styrene
Concen: 18.755 ug/l
RT: 9.487 min Scan# 2627
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion:104 Resp: 454259

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 49.1 | 39.8 | 59.6 |
| 103 | 53.8 | 43.4 | 65.2 |



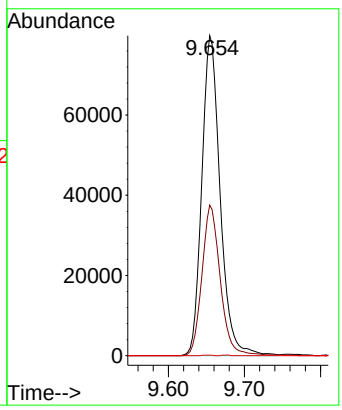


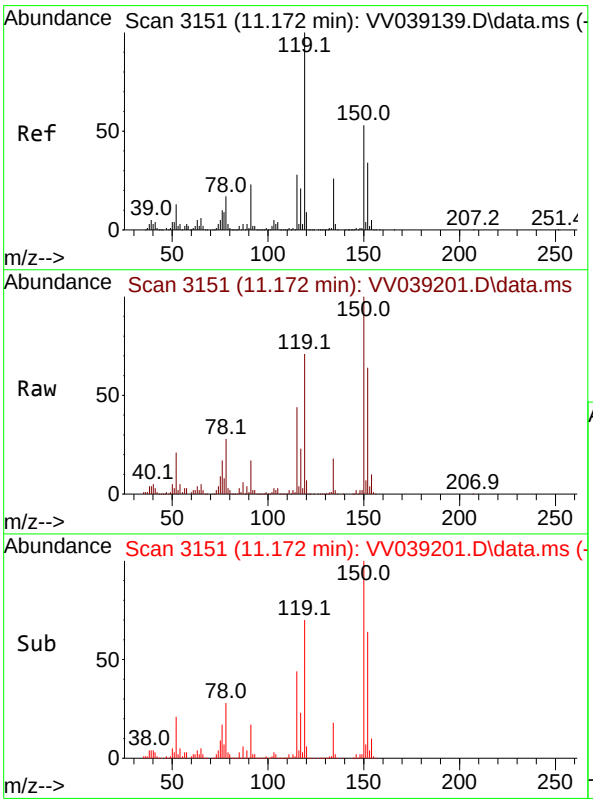

#71
Bromoform
Concen: 20.366 ug/l
RT: 9.654 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion:173 Resp: 133666

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.1 | 23.9 | 71.7 |
| 254 | 0.1 | 0.1 | 0.1 |

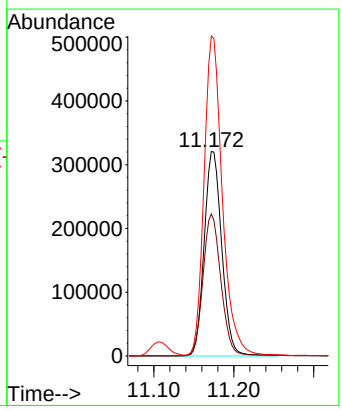


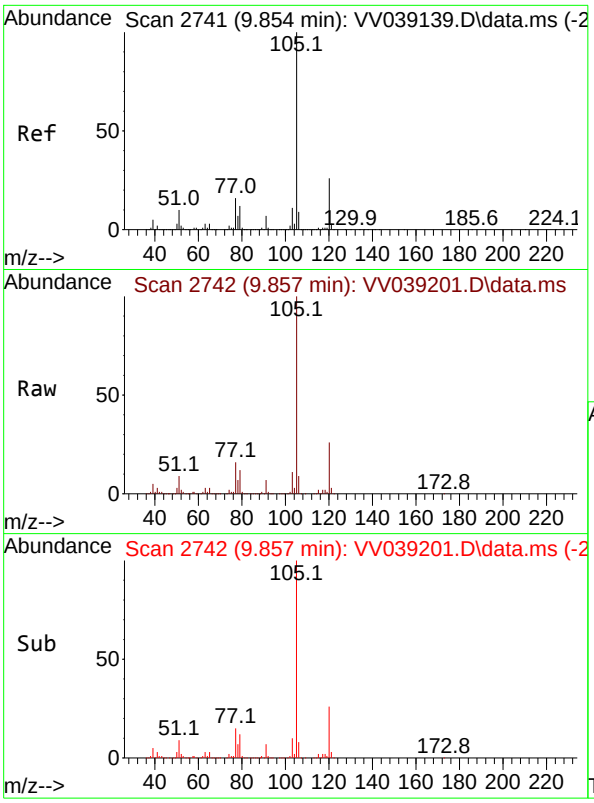




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion:152 Resp: 490803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 70.8 | 44.8 | 134.4 |
| 150 | 163.1 | 0.0 | 353.8 |



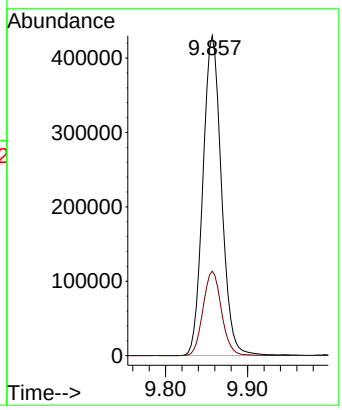


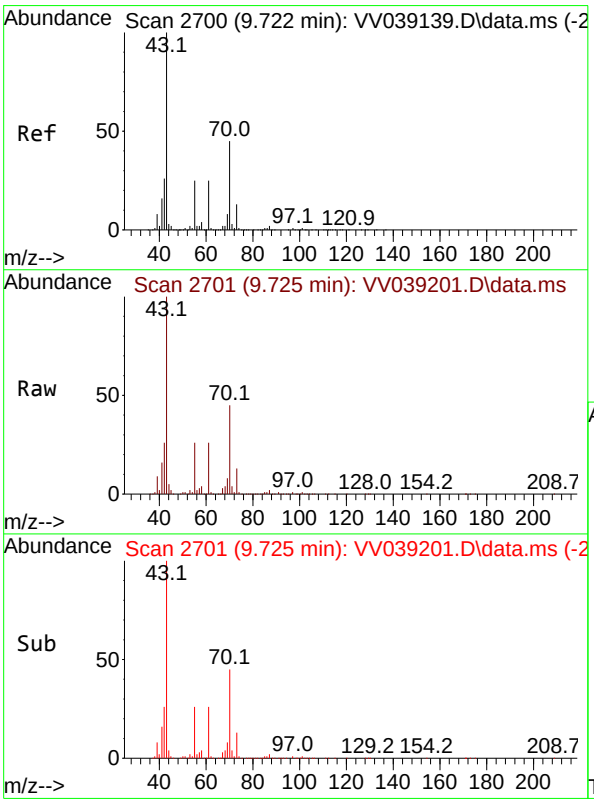

#73
Isopropylbenzene
Concen: 18.990 ug/l
RT: 9.857 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion:105 Resp: 676001

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.4 | 13.1 | 39.1 |

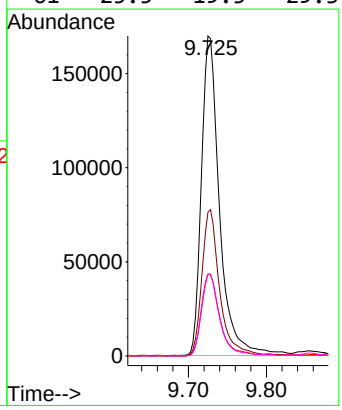


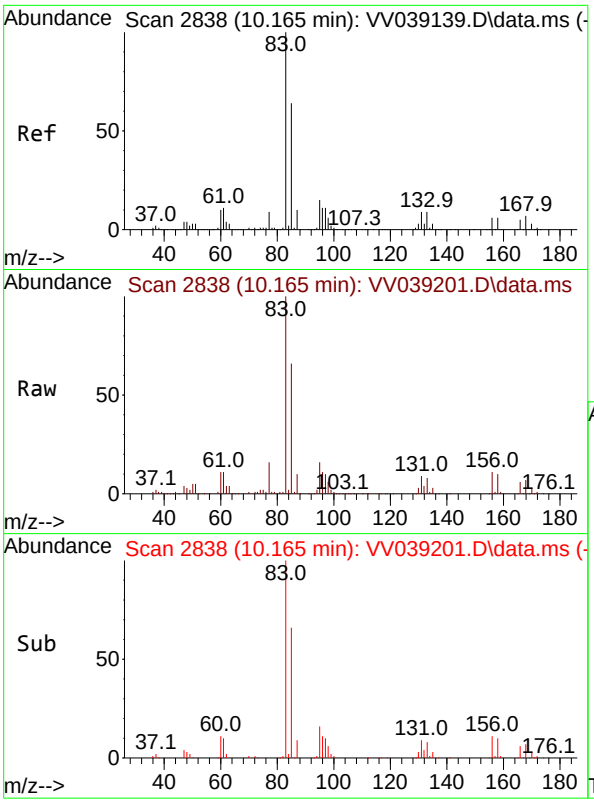




#74
N-amyl acetate
Concen: 19.249 ug/l
RT: 9.725 min Scan# 2701
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 43 Resp: 273330

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 45.0 | 35.4 | 53.0 |
| 55 | 26.4 | 20.6 | 30.8 |
| 61 | 25.5 | 19.5 | 29.3 |



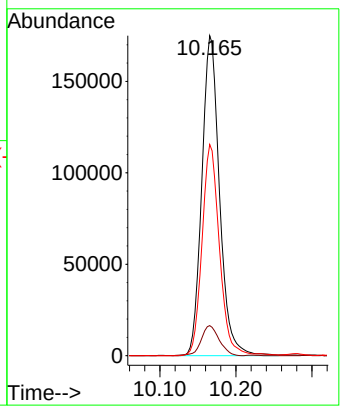


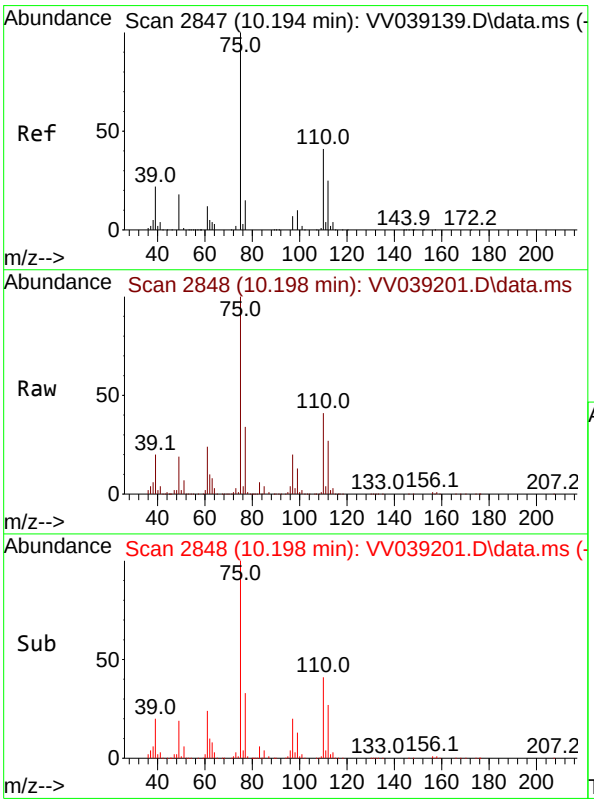

#75
1,1,2,2-Tetrachloroethane
Concen: 18.144 ug/l
RT: 10.165 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion: 83 Resp: 283007

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.6 | 4.5 | 13.7 |
| 85 | 64.5 | 31.9 | 95.9 |

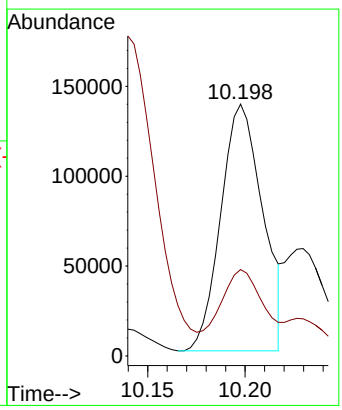


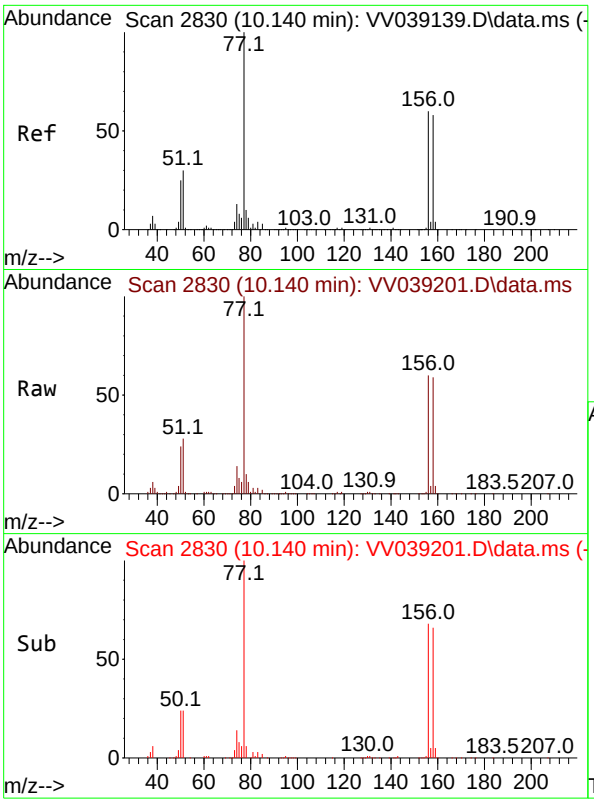




#76
1,2,3-Trichloropropane
Concen: 18.374 ug/l
RT: 10.198 min Scan# 2848
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 75 Resp: 205329

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 23.0 | 11.3 | 33.8 |



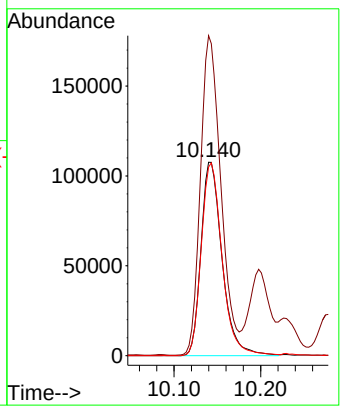


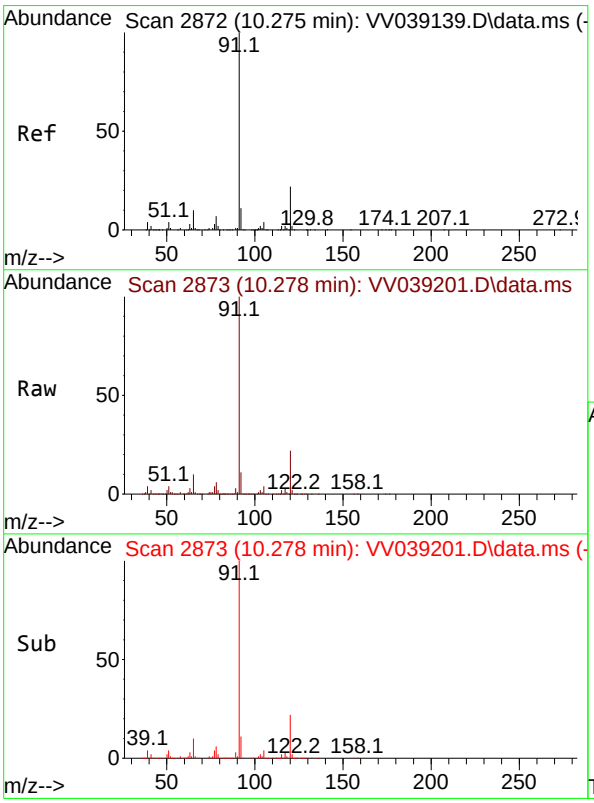

#77
Bromobenzene
Concen: 19.707 ug/l
RT: 10.140 min Scan# 2
Delta R.T. 0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion:156 Resp: 182007

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 159.8 | 83.4 | 250.1 |
| 158 | 98.8 | 48.8 | 146.4 |

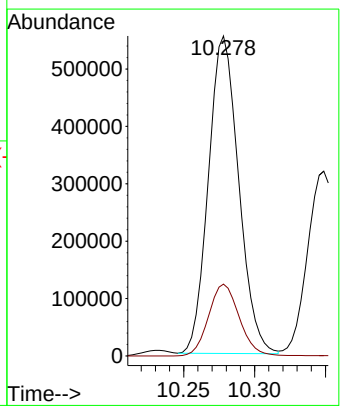


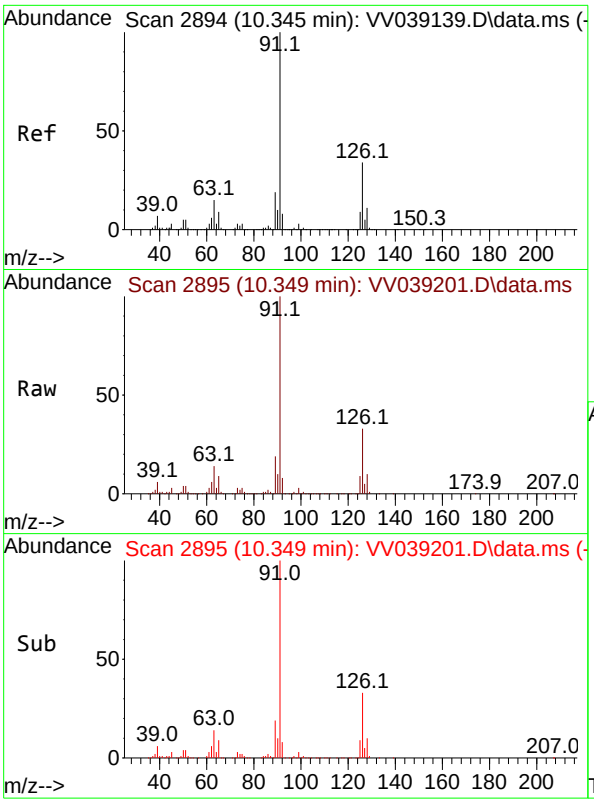




#78
n-propylbenzene
Concen: 18.966 ug/l
RT: 10.278 min Scan# 2873
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 91 Resp: 822195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 23.0 | 11.1 | 33.3 |



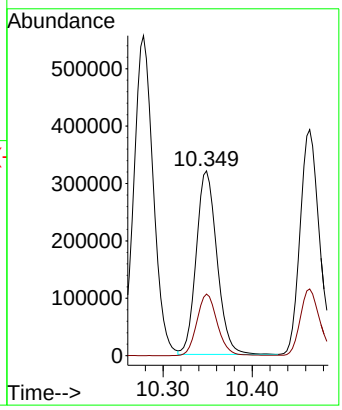


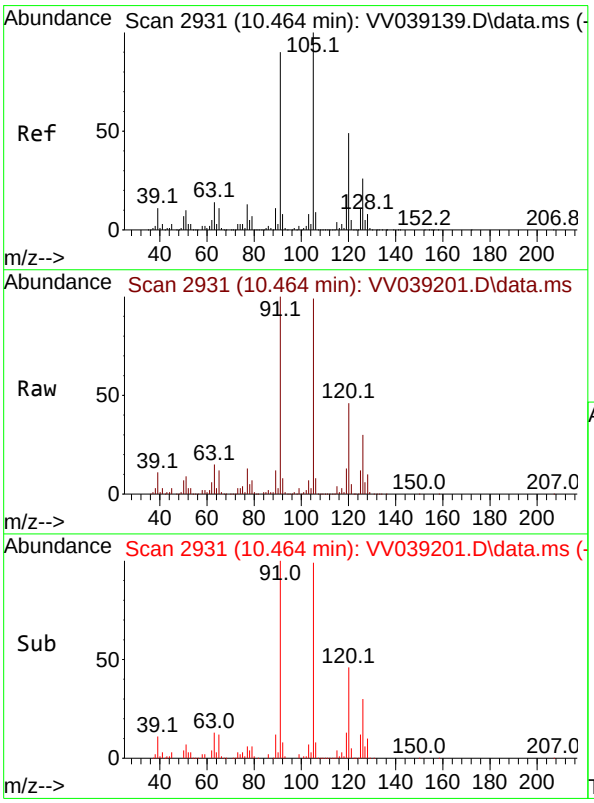

#79
2-Chlorotoluene
Concen: 19.879 ug/l
RT: 10.349 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion: 91 Resp: 515642

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.5 | 16.7 | 50.0 |

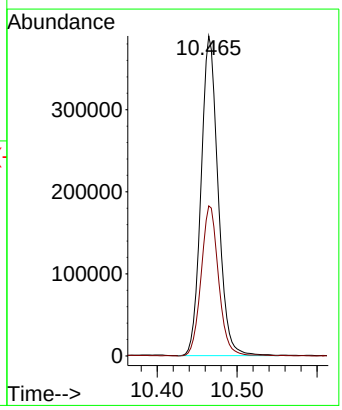


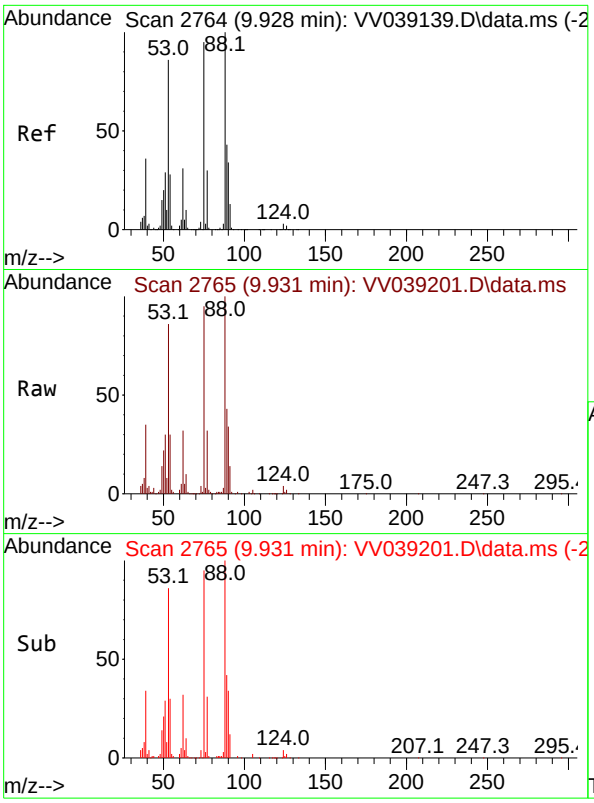




#80
1,3,5-Trimethylbenzene
Concen: 19.521 ug/l
RT: 10.464 min Scan# 2931
Delta R.T. 0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion:105 Resp: 577612

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.2 | 24.3 | 72.8 |



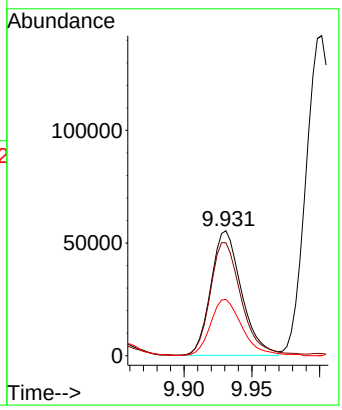


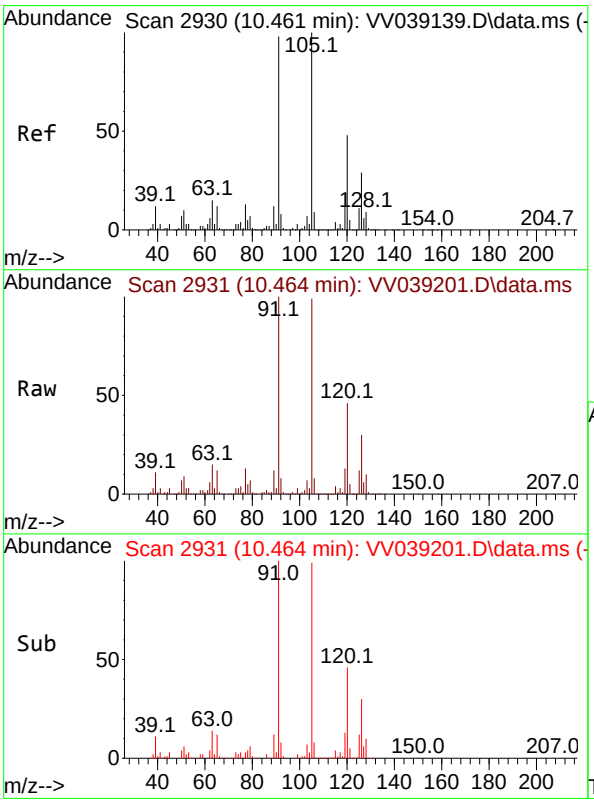

#81
trans-1,4-Dichloro-2-butene
Concen: 18.654 ug/l
RT: 9.931 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion: 75 Resp: 86829

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 91.7 | 72.5 | 108.7 |
| 89 | 47.1 | 37.2 | 55.8 |

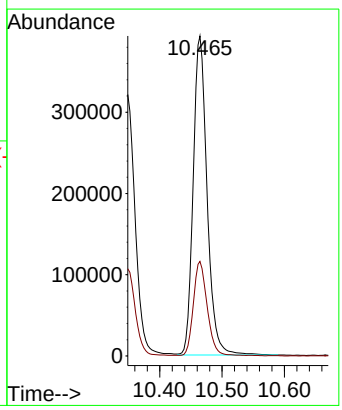


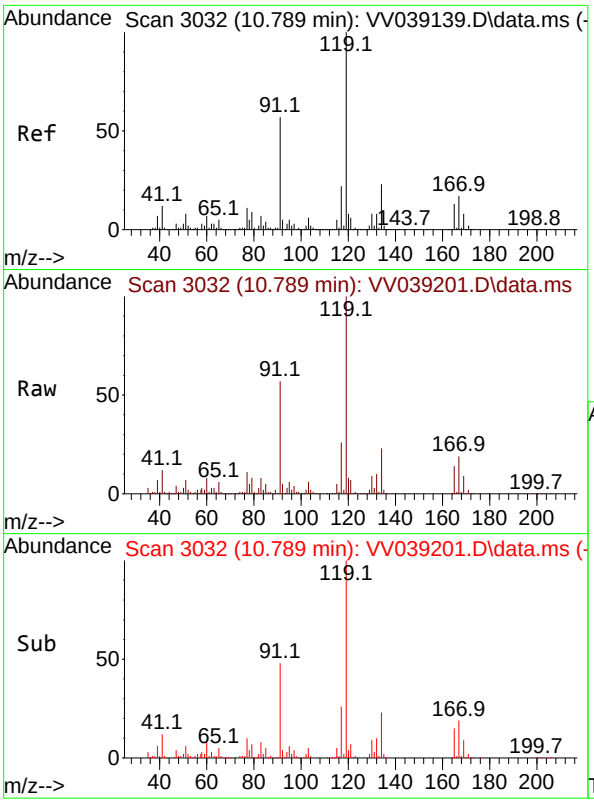




#82
4-Chlorotoluene
Concen: 20.203 ug/l
RT: 10.464 min Scan# 2931
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 91 Resp: 607661

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 29.2 | 14.5 | 43.6 |



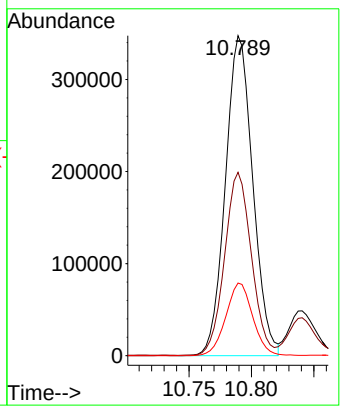


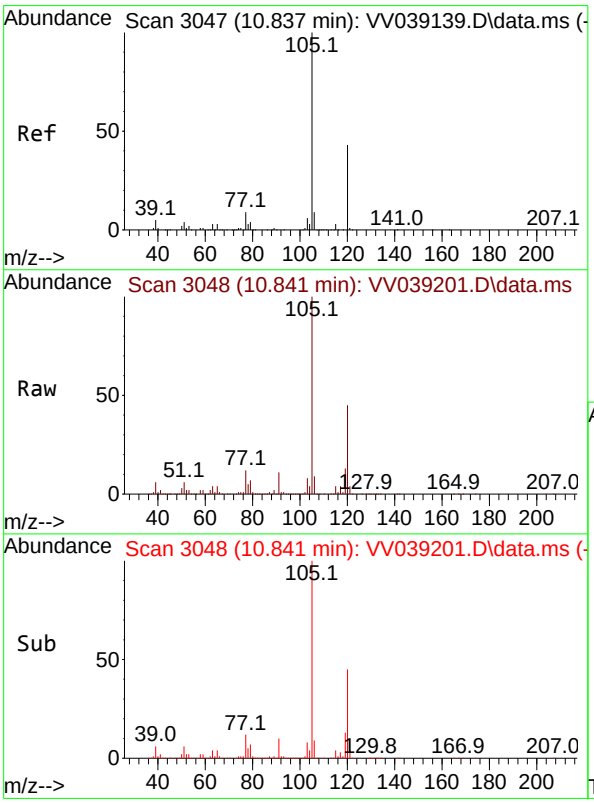

#83
tert-Butylbenzene
Concen: 18.038 ug/l
RT: 10.789 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion:119 Resp: 532209

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 55.8 | 28.5 | 85.6 |
| 134 | 22.4 | 11.5 | 34.4 |

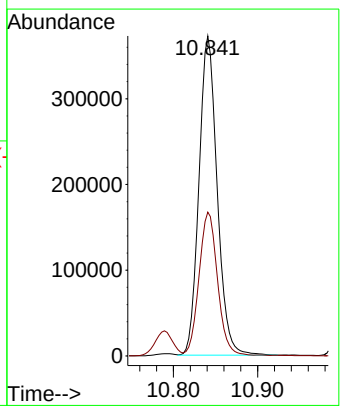


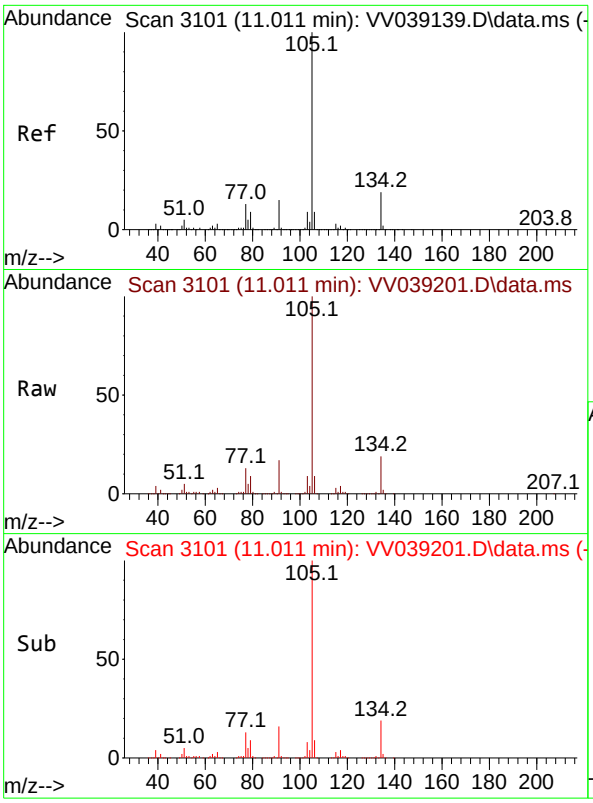




#84
1,2,4-Trimethylbenzene
Concen: 19.488 ug/l
RT: 10.841 min Scan# 3048
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion:105 Resp: 559808

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.4 | 22.4 | 67.2 |



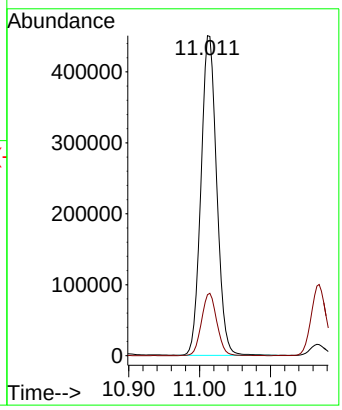


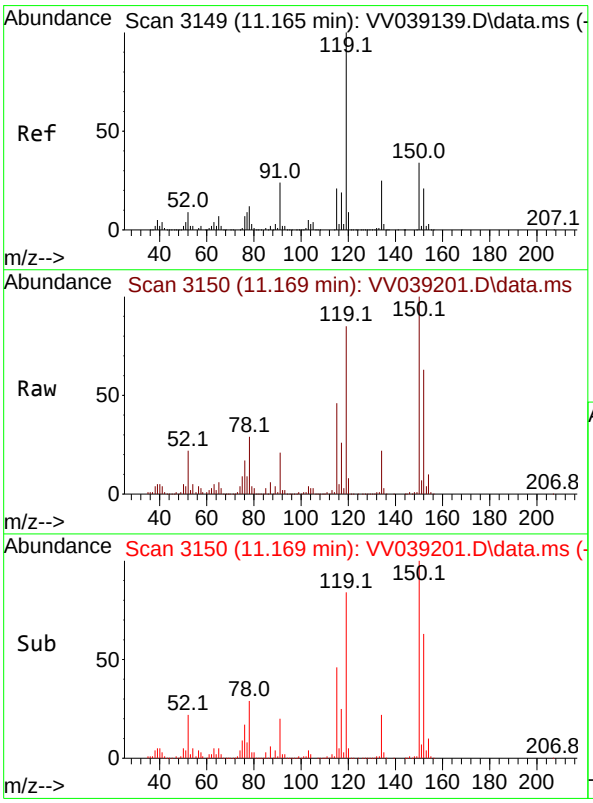

#85
sec-Butylbenzene
Concen: 17.674 ug/l
RT: 11.011 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion:105 Resp: 691659

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.2 | 9.6 | 28.8 |

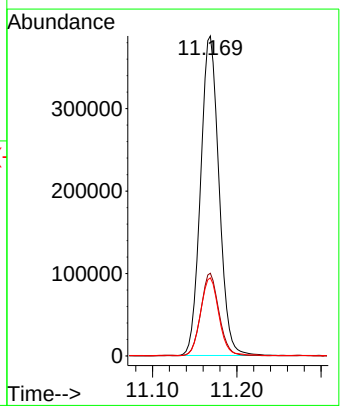


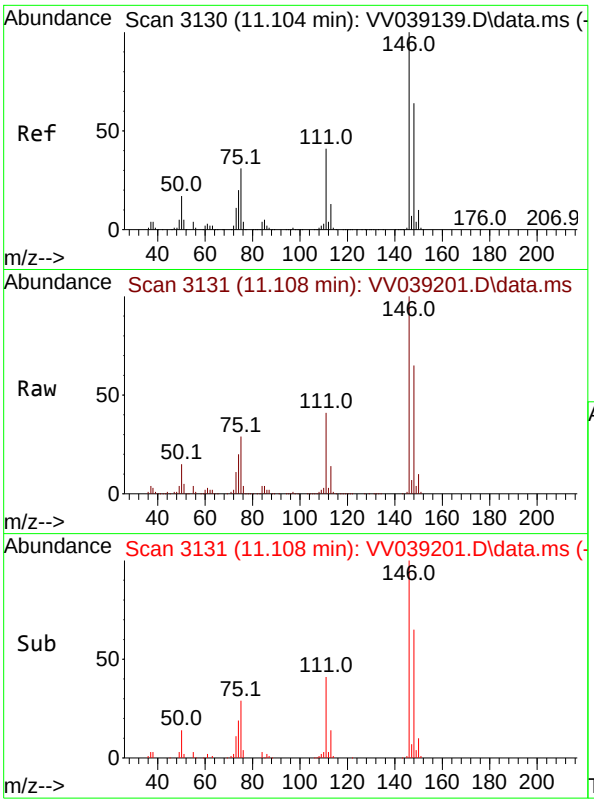




#86
p-Isopropyltoluene
Concen: 18.107 ug/l
RT: 11.169 min Scan# 3150
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion:119 Resp: 589760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.5 | 12.7 | 38.0 |
| 91 | 24.2 | 12.0 | 36.1 |



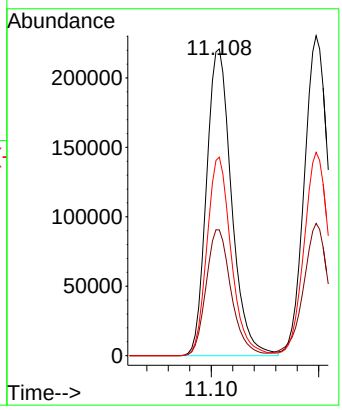


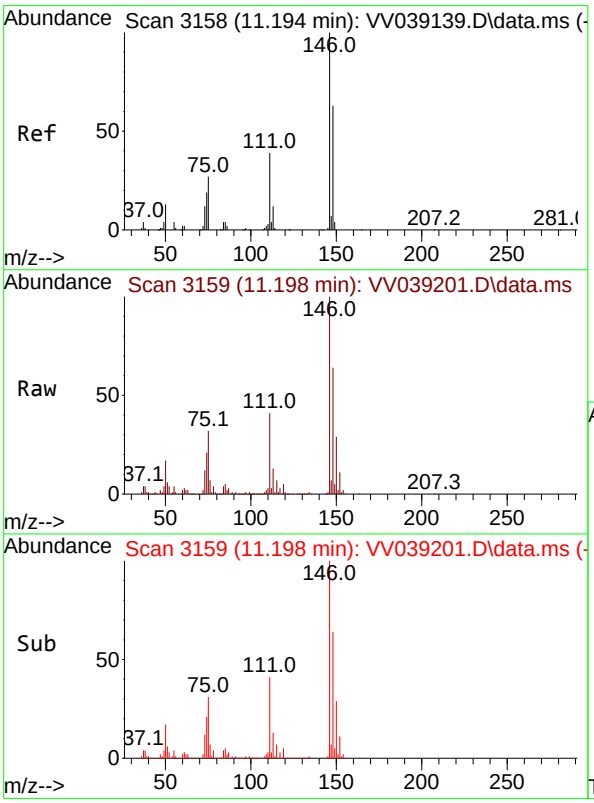

#87
1,3-Dichlorobenzene
Concen: 19.156 ug/l
RT: 11.108 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion:146 Resp: 358060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.1 | 20.9 | 62.8 |
| 148 | 62.8 | 31.8 | 95.3 |

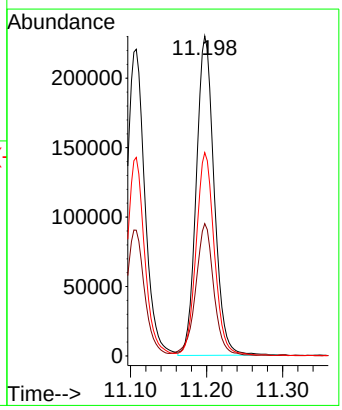


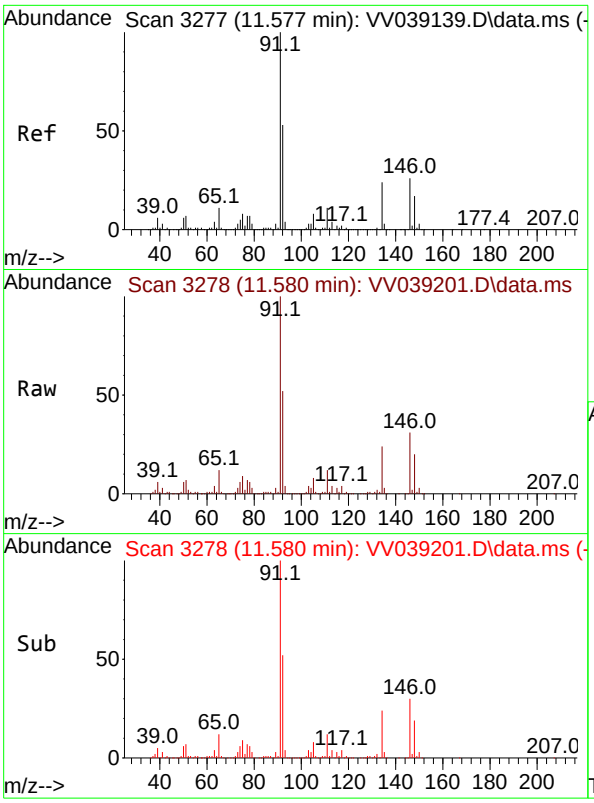




#88
1,4-Dichlorobenzene
Concen: 18.305 ug/l
RT: 11.198 min Scan# 3159
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion:146 Resp: 375372

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.8 | 20.3 | 60.8 |
| 148 | 64.3 | 31.4 | 94.2 |



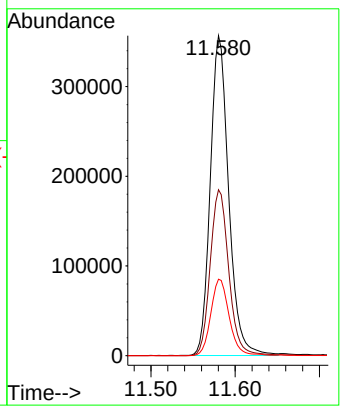


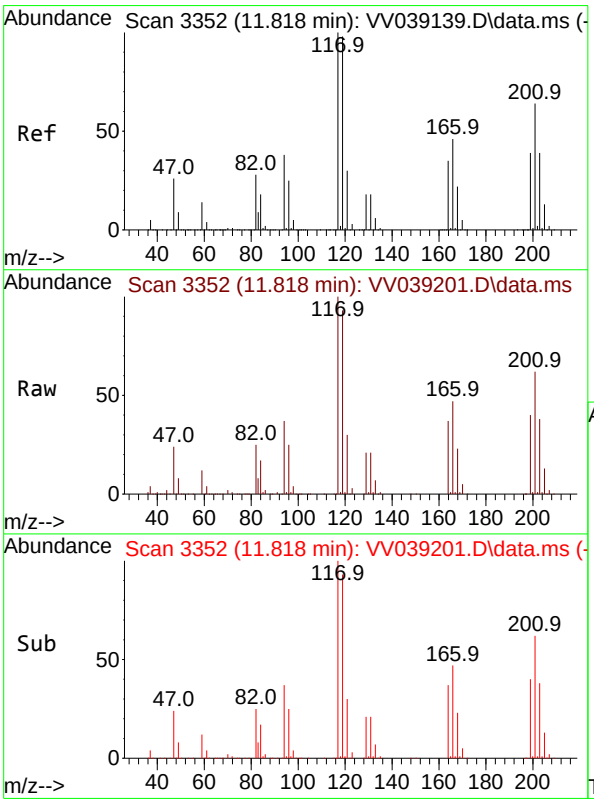

#89
n-Butylbenzene
Concen: 17.357 ug/l
RT: 11.580 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion: 91 Resp: 539925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.7 | 26.6 | 79.8 |
| 134 | 24.0 | 12.1 | 36.3 |

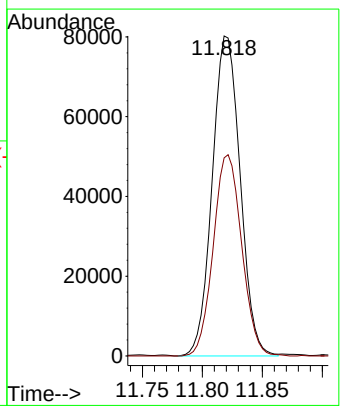


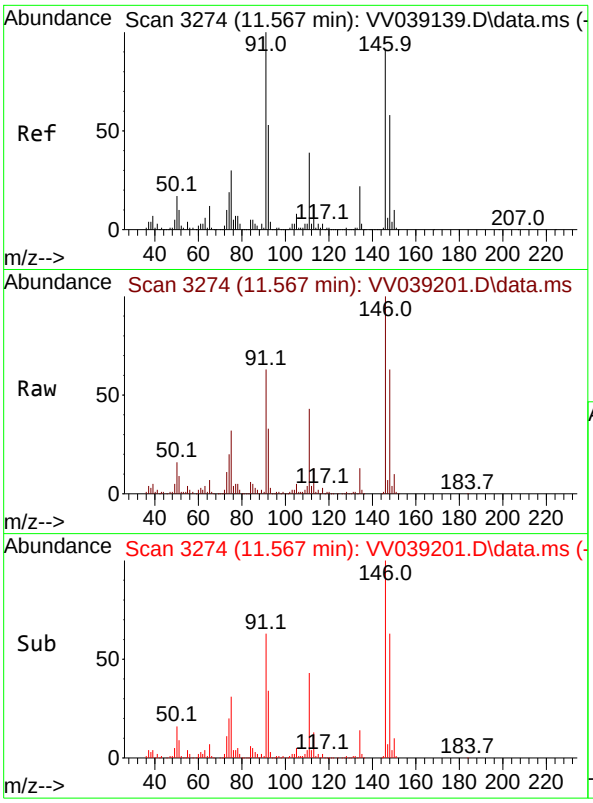




#90
Hexachloroethane
Concen: 16.198 ug/l
RT: 11.818 min Scan# 3352
Delta R.T. 0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion:117 Resp: 129925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 63.9 | 32.3 | 96.8 |



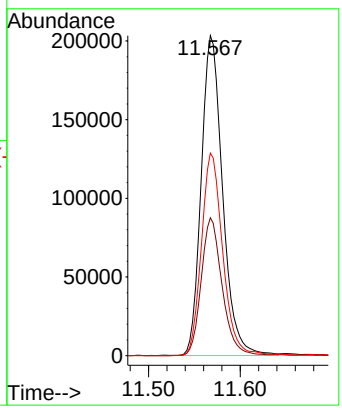


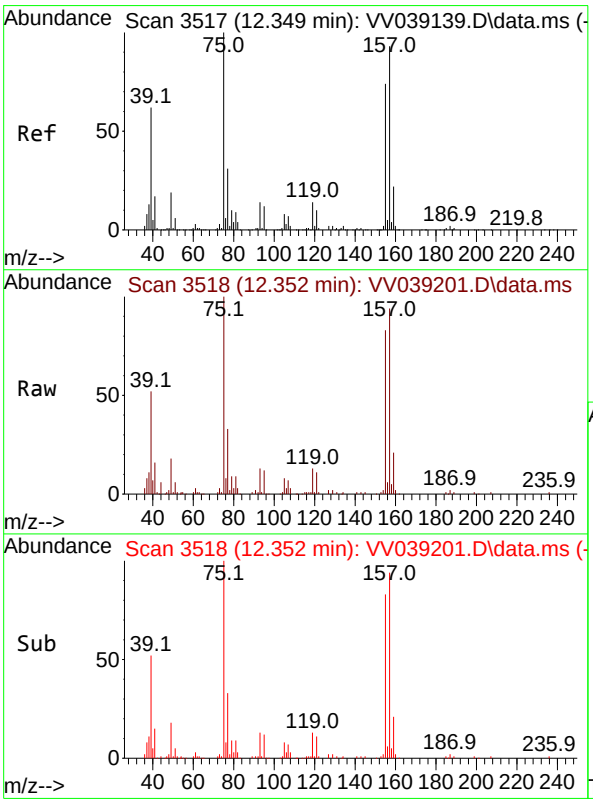

#91
1,2-Dichlorobenzene
Concen: 18.868 ug/l
RT: 11.567 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion:146 Resp: 329507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.1 | 21.5 | 64.5 |
| 148 | 63.6 | 31.9 | 95.7 |

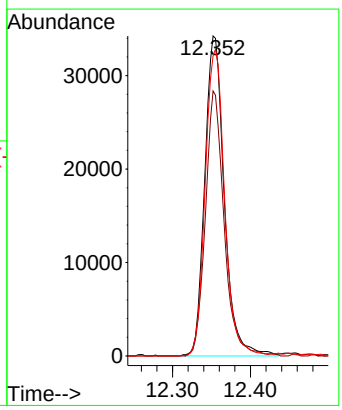


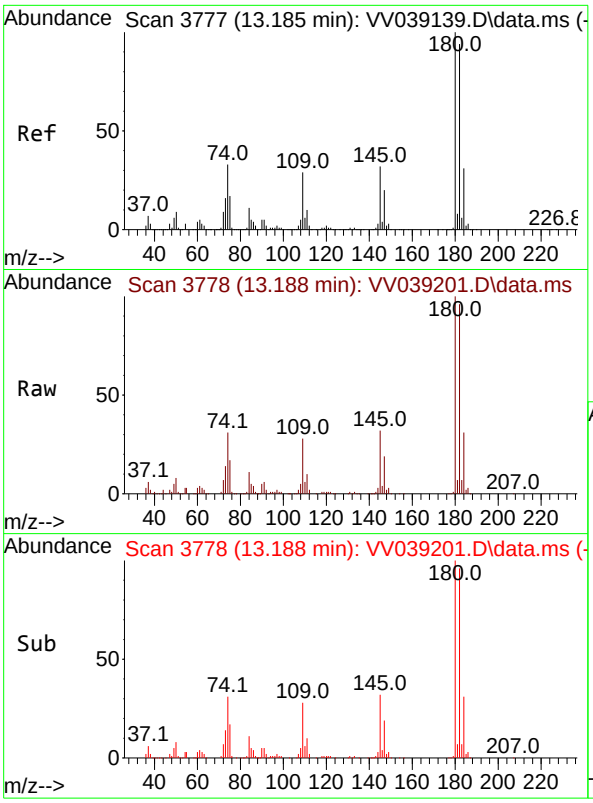




#92
1,2-Dibromo-3-Chloropropane
Concen: 21.458 ug/l
RT: 12.352 min Scan# 3518
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion: 75 Resp: 59548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 79.7 | 38.6 | 115.8 |
| 157 | 95.4 | 49.5 | 148.3 |



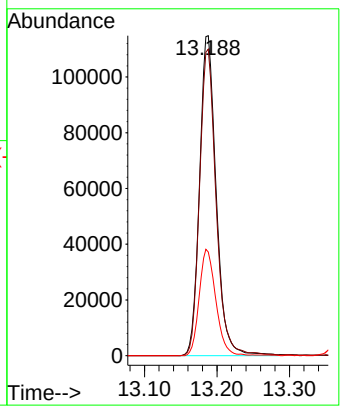


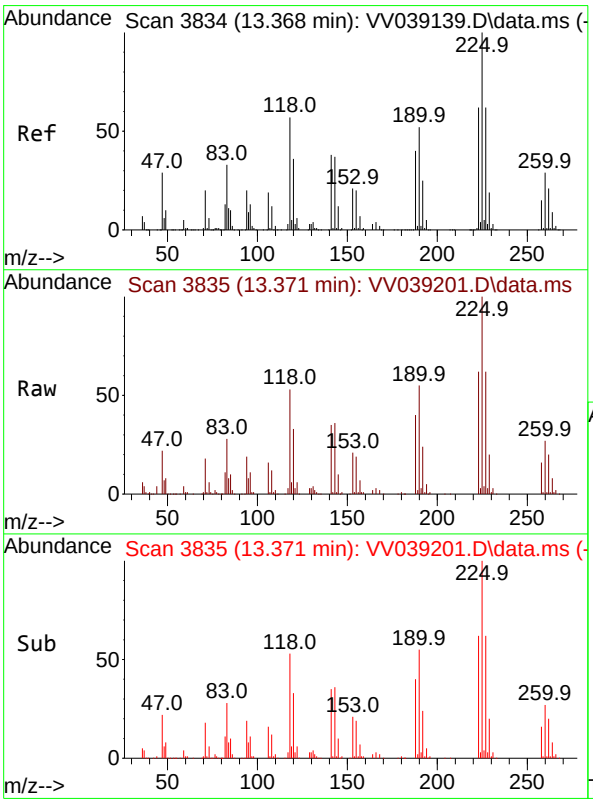

#93
1,2,4-Trichlorobenzene
Concen: 18.284 ug/l
RT: 13.188 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion:180 Resp: 183040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.4 | 47.1 | 141.4 |
| 145 | 33.2 | 16.3 | 48.8 |

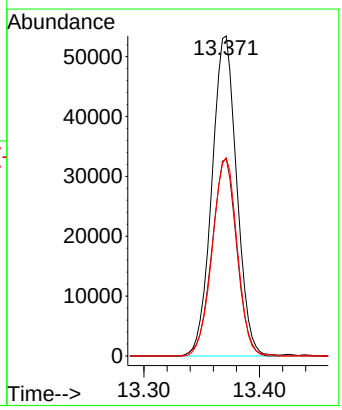


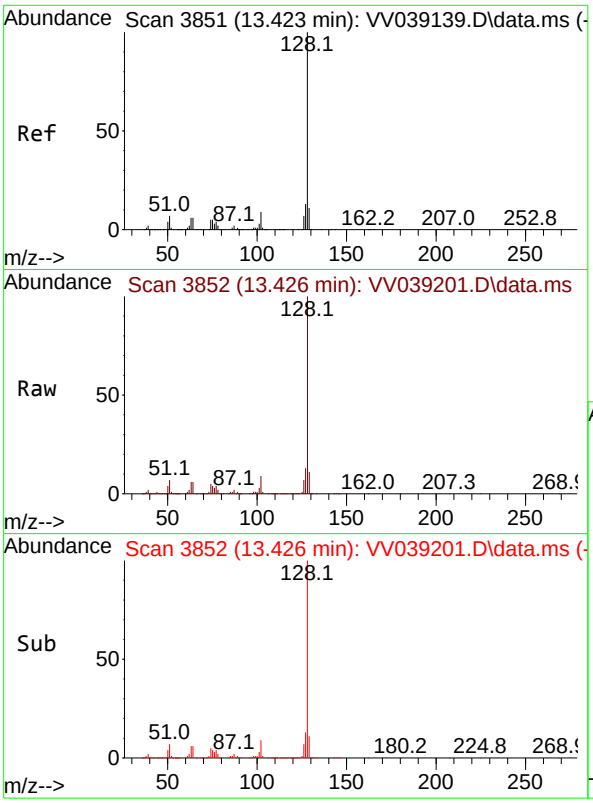




#94
Hexachlorobutadiene
Concen: 15.334 ug/l
RT: 13.371 min Scan# 3835
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion:225 Resp: 79764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 61.8 | 31.6 | 94.7 |
| 227 | 62.1 | 31.8 | 95.4 |



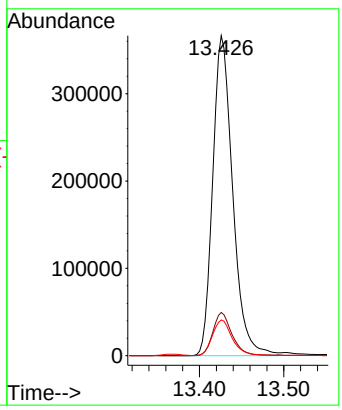


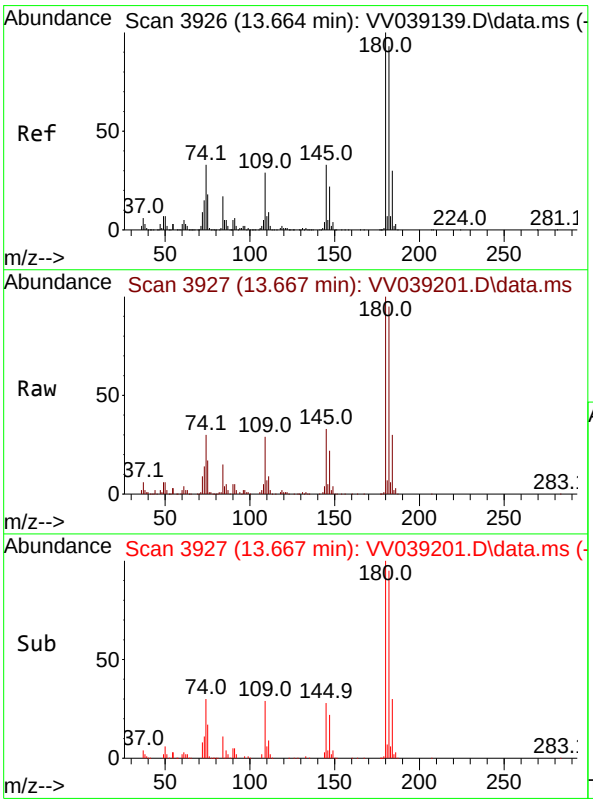

#95
Naphthalene
Concen: 18.623 ug/l
RT: 13.426 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0926WBS01

Tgt Ion:128 Resp: 602556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.0 | 10.3 | 15.5 |
| 129 | 11.0 | 8.6 | 13.0 |

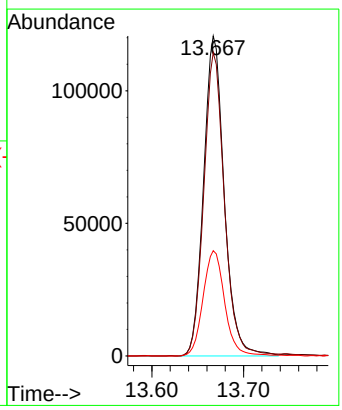



#96
1,2,3-Trichlorobenzene
Concen: 18.424 ug/l
RT: 13.667 min Scan# 3927
Delta R.T. 0.003 min
Lab File: VV039201.D
Acq: 26 Sep 2025 10:49

Tgt Ion:180 Resp: 188633

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.9 | 46.9 | 140.8 |
| 145 | 34.5 | 17.0 | 51.0 |



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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | |
| Project: | REAC Commodore | Date Received: | |
| Client Sample ID: | VV0929WBS01 | SDG No.: | Q3195 |
| Lab Sample ID: | VV0929WBS01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039224.D | 1 | 09/29/25 12:23 | VV092925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 18.5 | | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 18.5 | | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 18.5 | | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 19.4 | | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 19.3 | | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 19.9 | | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 19.7 | | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 19.9 | | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 84.9 | | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 17.5 | | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 20.6 | | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 23.1 | | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 20.5 | | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 19.8 | | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 19.1 | | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 16.8 | | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 98.5 | | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 20.7 | | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 19.5 | | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 20.5 | | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 19.3 | | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 19.2 | | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 17.7 | | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 20.6 | | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 20.5 | | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 22.1 | | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 20.4 | | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 20.8 | | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 120 | | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 22.1 | | 0.14 | 1.00 | ug/L |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | |
| Project: | REAC Commodore | Date Received: | |
| Client Sample ID: | VV0929WBS01 | SDG No.: | Q3195 |
| Lab Sample ID: | VV0929WBS01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039224.D | 1 | 09/29/25 12:23 | VV092925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 21.3 | | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 21.6 | | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 22.1 | | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 110 | | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 22.0 | | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 22.1 | | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 22.0 | | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 20.6 | | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 20.7 | | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 44.5 | | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 21.5 | | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 20.4 | | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 23.6 | | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 19.4 | | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 18.9 | | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 20.2 | | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 19.6 | | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 19.7 | | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 22.3 | | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 20.0 | | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 20.6 | | 0.20 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 42.8 | | 74 - 125 | 86% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.2 | | 75 - 124 | 100% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 47.1 | | 86 - 113 | 94% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 52.7 | | 77 - 121 | 105% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 516000 | 4.6 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 793000 | 5.535 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 779000 | 8.776 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 484000 | 11.172 | | | |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | |
| Project: | REAC Commodore | Date Received: | |
| Client Sample ID: | VV0929WBS01 | SDG No.: | Q3195 |
| Lab Sample ID: | VV0929WBS01 | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039224.D | 1 | 09/29/25 12:23 | VV092925 |

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039224.D
Acq On : 29 Sep 2025 12:23
Operator : SY/MD
Sample : VV0929WBS01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Quant Time: Sep 30 01:23:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.600 | 168 | 516454 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.535 | 114 | 792956 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.776 | 117 | 778611 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.172 | 152 | 484149 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.944 | 65 | 319747 | 42.778 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 85.560% | | | |
| 35) Dibromofluoromethane | 4.500 | 113 | 320211 | 50.231 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 100.460% | | | |
| 50) Toluene-d8 | 7.236 | 98 | 881306 | 47.072 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 94.140% | | | |
| 62) 4-Bromofluorobenzene | 10.001 | 95 | 406193 | 52.700 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 105.400% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.121 | 85 | 150870 | 18.454 | ug/l | 99 |
| 3) Chloromethane | 1.230 | 50 | 161989 | 18.457 | ug/l | 100 |
| 4) Vinyl Chloride | 1.298 | 62 | 173604 | 18.477 | ug/l | 98 |
| 5) Bromomethane | 1.497 | 94 | 114704 | 19.365 | ug/l | 96 |
| 6) Chloroethane | 1.561 | 64 | 113620 | 19.254 | ug/l | 96 |
| 7) Trichlorofluoromethane | 1.725 | 101 | 270079 | 19.854 | ug/l | 99 |
| 8) Diethyl Ether | 1.921 | 74 | 99694 | 19.741 | ug/l | 94 |
| 9) 1,1,2-Trichlorotrifluo... | 2.082 | 101 | 159720 | 19.733 | ug/l | 96 |
| 10) Methyl Iodide | 2.198 | 142 | 148763 | 19.300 | ug/l | 99 |
| 11) Tert butyl alcohol | 2.574 | 59 | 186819 | 118.256 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 2.082 | 96 | 155340 | 19.949 | ug/l | 91 |
| 13) Acrolein | 2.011 | 56 | 32072 | 116.997 | ug/l | 97 |
| 14) Allyl chloride | 2.359 | 41 | 256953 | 18.473 | ug/l | 98 |
| 15) Acrylonitrile | 2.677 | 53 | 515622 | 101.816 | ug/l | 99 |
| 16) Acetone | 2.121 | 43 | 422540 | 84.862 | ug/l | 99 |
| 17) Carbon Disulfide | 2.252 | 76 | 417256 | 17.521 | ug/l | 99 |
| 18) Methyl Acetate | 2.384 | 43 | 255620 | 23.081 | ug/l | 96 |
| 19) Methyl tert-butyl Ether | 2.715 | 73 | 511335 | 20.608 | ug/l | 98 |
| 20) Methylene Chloride | 2.458 | 84 | 178236 | 20.544 | ug/l | 93 |
| 21) trans-1,2-Dichloroethene | 2.703 | 96 | 163972 | 19.780 | ug/l | 96 |
| 22) Diisopropyl ether | 3.220 | 45 | 505903 | 19.010 | ug/l | 97 |
| 23) Vinyl Acetate | 3.191 | 43 | 2180218 | 93.651 | ug/l | 98 |
| 24) 1,1-Dichloroethane | 3.117 | 63 | 310829 | 19.099 | ug/l | 98 |
| 25) 2-Butanone | 3.873 | 43 | 589737 | 98.528 | ug/l | 97 |
| 26) 2,2-Dichloropropane | 3.812 | 77 | 239643 | 16.607 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 3.822 | 96 | 178123 | 19.483 | ug/l | 97 |
| 28) Bromochloromethane | 4.150 | 49 | 147124 | 20.478 | ug/l | 90 |
| 29) Tetrahydrofuran | 4.246 | 42 | 387946 | 103.551 | ug/l | 97 |
| 30) Chloroform | 4.281 | 83 | 328585 | 19.335 | ug/l | 99 |
| 31) Cyclohexane | 4.584 | 56 | 223750 | 16.783 | ug/l | 95 |
| 32) 1,1,1-Trichloroethane | 4.513 | 97 | 282636 | 19.211 | ug/l | 97 |
| 36) 1,1-Dichloropropene | 4.744 | 75 | 194860 | 20.218 | ug/l | 97 |
| 37) Ethyl Acetate | 3.986 | 43 | 236815 | 20.249 | ug/l | 98 |
| 38) Carbon Tetrachloride | 4.738 | 117 | 243896 | 20.706 | ug/l | 97 |
| 39) Methylcyclohexane | 6.047 | 83 | 205429 | 17.650 | ug/l | 93 |
| 40) Benzene | 5.011 | 78 | 647129 | 20.619 | ug/l | 97 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039224.D
Acq On : 29 Sep 2025 12:23
Operator : SY/MD
Sample : VV0929WBS01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Quant Time: Sep 30 01:23:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.169 | 41 | 96963 | 19.547 | ug/l | | 94 |
| 42) 1,2-Dichloroethane | 5.043 | 62 | 225943 | 20.546 | ug/l | | 99 |
| 43) Isopropyl Acetate | 5.201 | 43 | 331062 | 20.762 | ug/l | | 99 |
| 44) Trichloroethene | 5.834 | 130 | 160027 | 22.097 | ug/l | | 96 |
| 45) 1,2-Dichloropropane | 6.092 | 63 | 159034 | 20.387 | ug/l | | 93 |
| 46) Dibromomethane | 6.230 | 93 | 128007 | 21.439 | ug/l | | 93 |
| 47) Bromodichloromethane | 6.429 | 83 | 256635 | 20.791 | ug/l | | 97 |
| 48) Methyl methacrylate | 6.304 | 41 | 143594 | 19.866 | ug/l | | 96 |
| 49) 1,4-Dioxane | 6.297 | 88 | 52495 | 450.027 | ug/l | | 97 |
| 51) 4-Methyl-2-Pentanone | 7.149 | 43 | 1213345 | 115.662 | ug/l | | 99 |
| 52) Toluene | 7.310 | 92 | 402833 | 22.137 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 7.577 | 75 | 229437 | 21.329 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 6.950 | 75 | 256128 | 21.568 | ug/l | | 97 |
| 55) 1,1,2-Trichloroethane | 7.764 | 97 | 180352 | 22.104 | ug/l | | 98 |
| 56) Ethyl methacrylate | 7.718 | 69 | 206033 | 21.263 | ug/l | | 95 |
| 57) 1,3-Dichloropropane | 7.937 | 76 | 274579 | 21.324 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 6.815 | 63 | 458913 | 90.272 | ug/l | | 97 |
| 59) 2-Hexanone | 8.066 | 43 | 888978 | 106.332 | ug/l | | 99 |
| 60) Dibromochloromethane | 8.169 | 129 | 204739 | 22.022 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 8.275 | 107 | 184314 | 22.089 | ug/l | | 97 |
| 64) Tetrachloroethene | 7.899 | 164 | 143400 | 21.989 | ug/l | | 97 |
| 65) Chlorobenzene | 8.805 | 112 | 447060 | 20.614 | ug/l | | 96 |
| 66) 1,1,1,2-Tetrachloroethane | 8.899 | 131 | 171881 | 21.934 | ug/l | | 99 |
| 67) Ethyl Benzene | 8.937 | 91 | 679904 | 20.710 | ug/l | | 99 |
| 68) m/p-Xylenes | 9.066 | 106 | 563248 | 44.453 | ug/l | | 100 |
| 69) o-Xylene | 9.471 | 106 | 240935 | 21.475 | ug/l | | 99 |
| 70) Styrene | 9.487 | 104 | 463036 | 20.357 | ug/l | | 99 |
| 71) Bromoform | 9.654 | 173 | 144577 | 23.619 | ug/l | # | 100 |
| 73) Isopropylbenzene | 9.857 | 105 | 681756 | 19.415 | ug/l | | 99 |
| 74) N-amyl acetate | 9.725 | 43 | 277055 | 19.780 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 10.165 | 83 | 290305 | 18.868 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 10.198 | 75 | 219845 | 19.944 | ug/l | | 96 |
| 77) Bromobenzene | 10.143 | 156 | 189322 | 20.780 | ug/l | | 94 |
| 78) n-propylbenzene | 10.278 | 91 | 836516 | 19.562 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 10.349 | 91 | 522912 | 20.436 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 10.464 | 105 | 595449 | 20.401 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 9.931 | 75 | 90895 | 19.795 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 10.464 | 91 | 609979 | 20.558 | ug/l | | 98 |
| 83) tert-Butylbenzene | 10.789 | 119 | 546815 | 18.788 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 10.841 | 105 | 579472 | 20.450 | ug/l | | 98 |
| 85) sec-Butylbenzene | 11.014 | 105 | 713481 | 18.482 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 11.169 | 119 | 612533 | 19.064 | ug/l | | 98 |
| 87) 1,3-Dichlorobenzene | 11.107 | 146 | 373130 | 20.236 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 11.197 | 146 | 395788 | 19.565 | ug/l | | 98 |
| 89) n-Butylbenzene | 11.580 | 91 | 560984 | 18.282 | ug/l | | 99 |
| 90) Hexachloroethane | 11.821 | 117 | 135620 | 17.141 | ug/l | | 94 |
| 91) 1,2-Dichlorobenzene | 11.567 | 146 | 340057 | 19.740 | ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.352 | 75 | 60941 | 22.277 | ug/l | | 94 |
| 93) 1,2,4-Trichlorobenzene | 13.188 | 180 | 197145 | 19.964 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 13.368 | 225 | 91322 | 17.798 | ug/l | | 98 |
| 95) Naphthalene | 13.426 | 128 | 638517 | 20.005 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 13.667 | 180 | 208339 | 20.628 | ug/l | | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039224.D
Acq On : 29 Sep 2025 12:23
Operator : SY/MD
Sample : VV0929WBS01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Quant Time: Sep 30 01:23:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

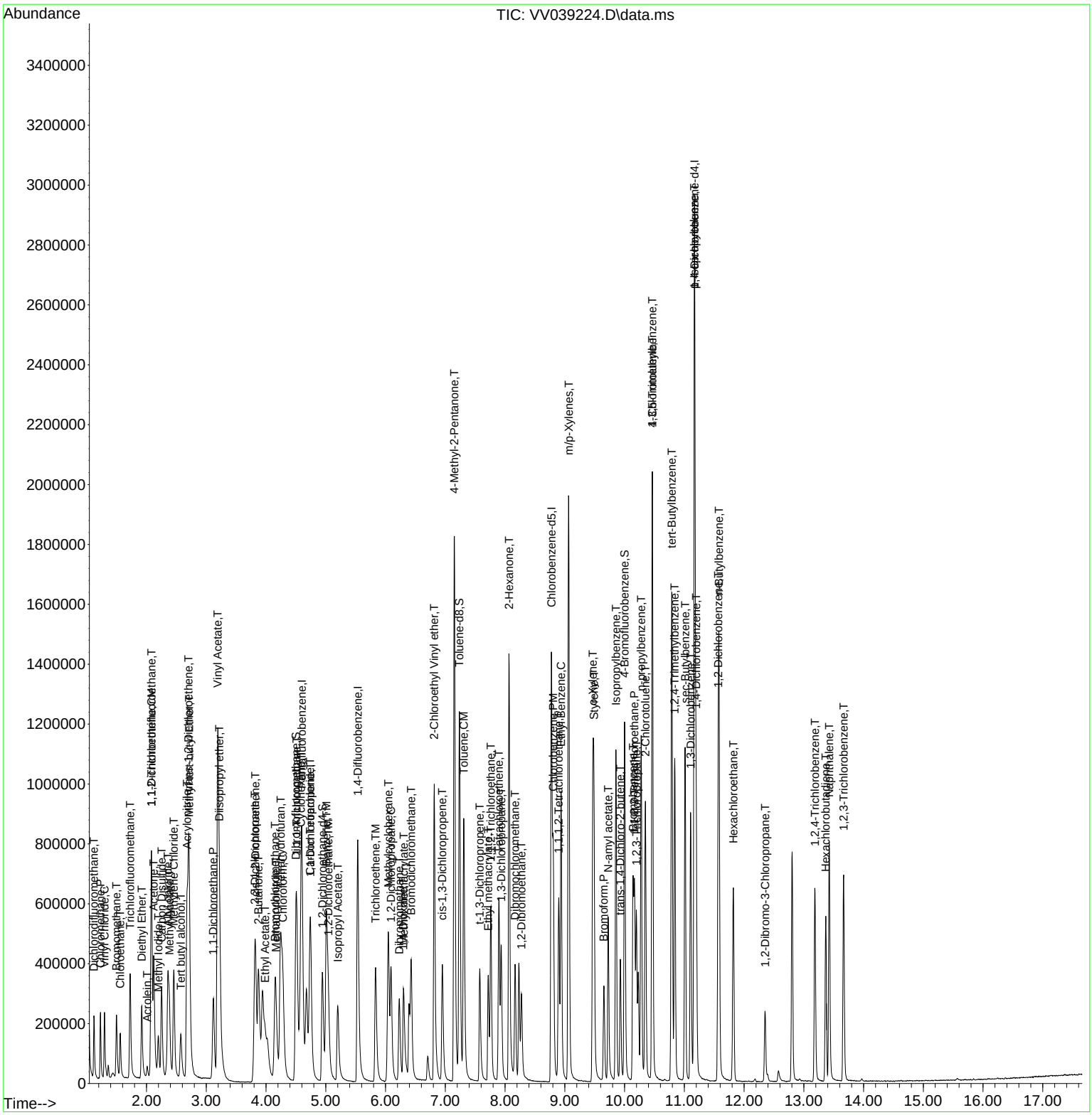
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

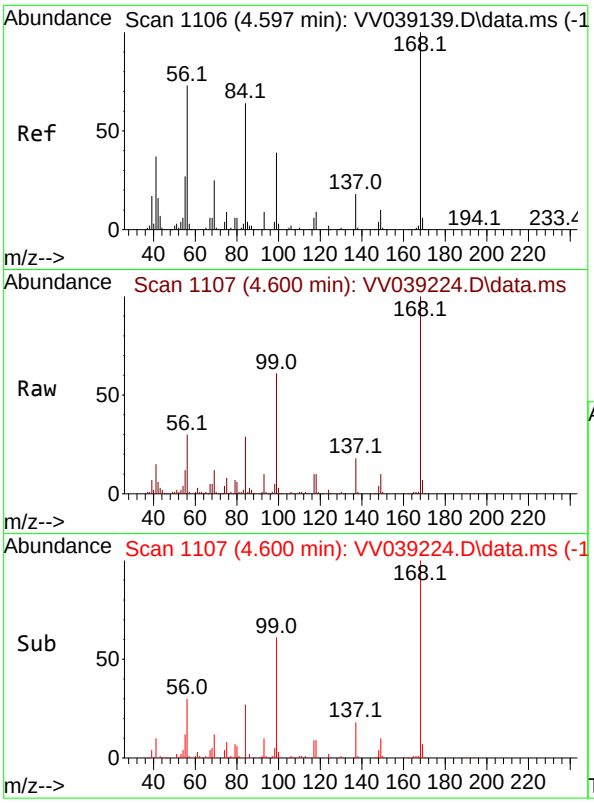
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039224.D
Acq On : 29 Sep 2025 12:23
Operator : SY/MD
Sample : VV0929WBS01
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Quant Time: Sep 30 01:23:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



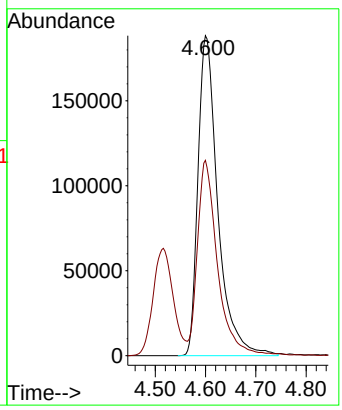


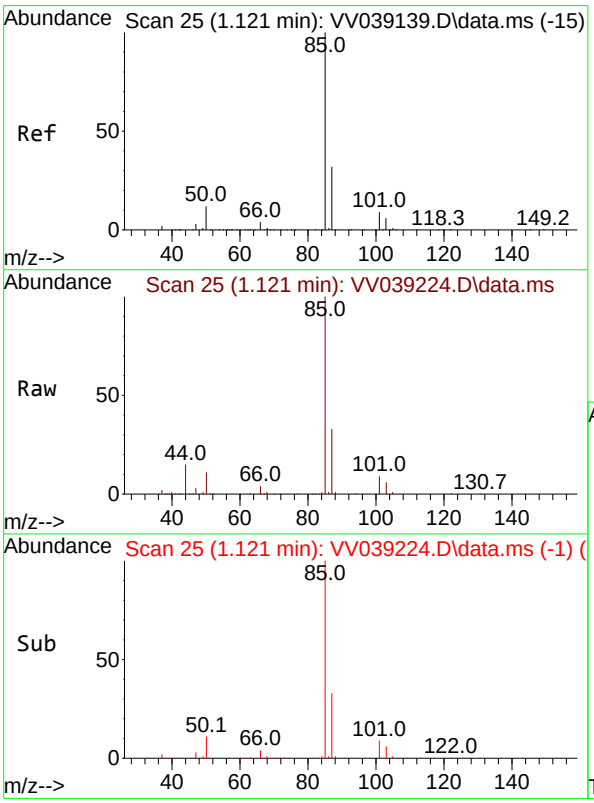

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion:168 Resp: 516454

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 60.4 | 49.6 | 74.4 |

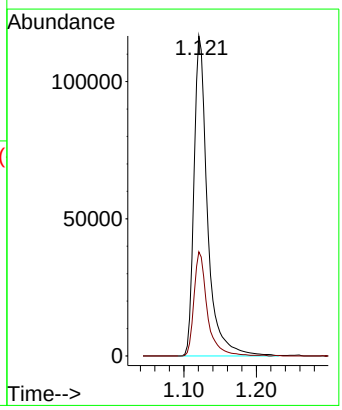


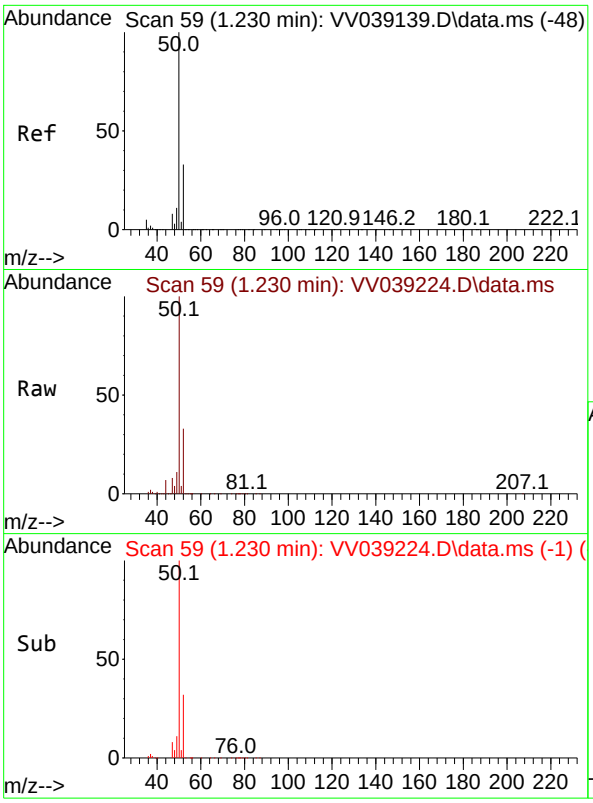




#2
Dichlorodifluoromethane
Concen: 18.454 ug/l
RT: 1.121 min Scan# 25
Delta R.T. -0.000 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 85 Resp: 150870

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.5 | 16.0 | 47.9 |



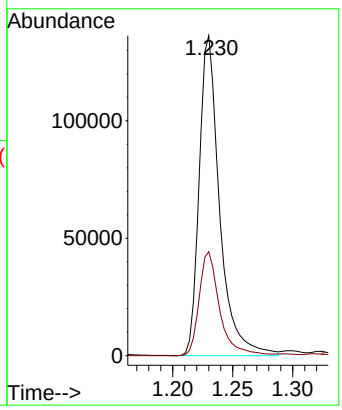


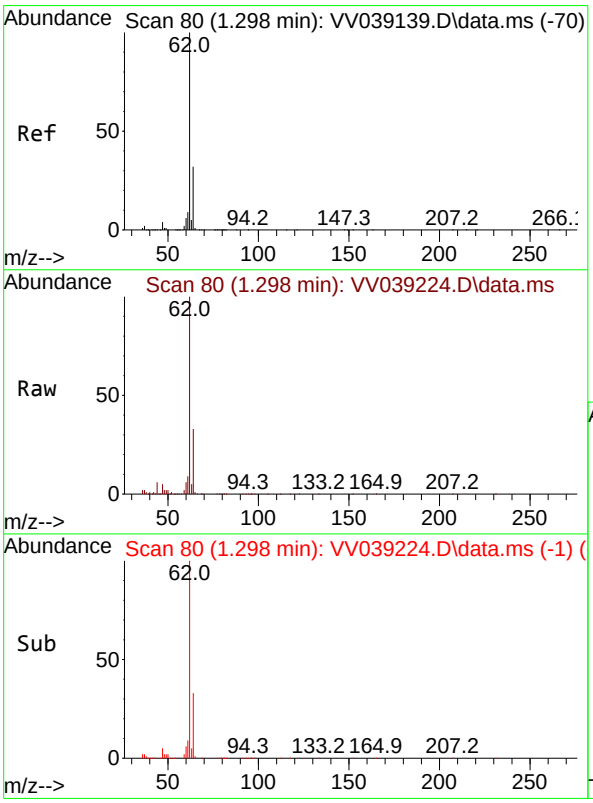

#3
Chloromethane
Concen: 18.457 ug/l
RT: 1.230 min Scan# 5
Delta R.T. -0.000 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion: 50 Resp: 161989

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.5 | 26.0 | 39.0 |

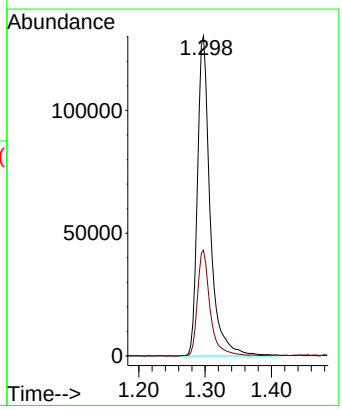


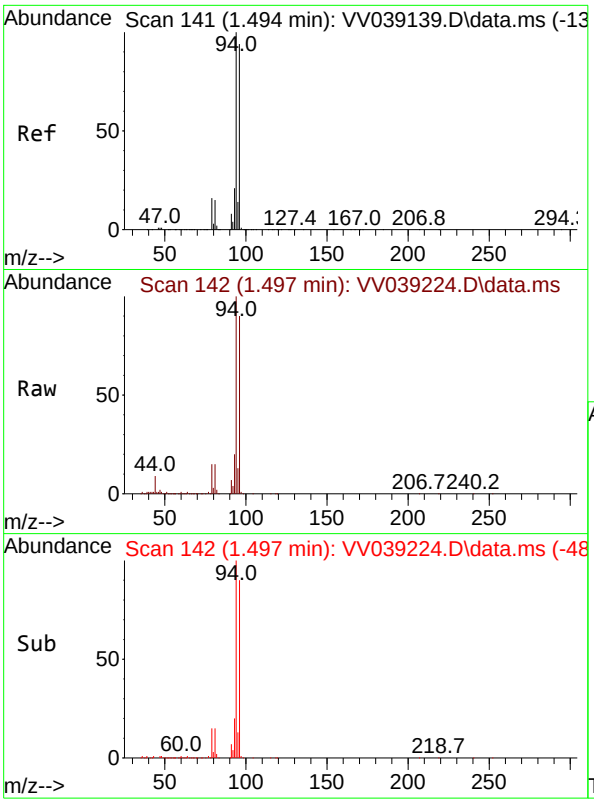




#4
Vinyl Chloride
Concen: 18.477 ug/l
RT: 1.298 min Scan# 80
Delta R.T. -0.000 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 62 Resp: 173604

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 33.1 | 25.6 | 38.4 |



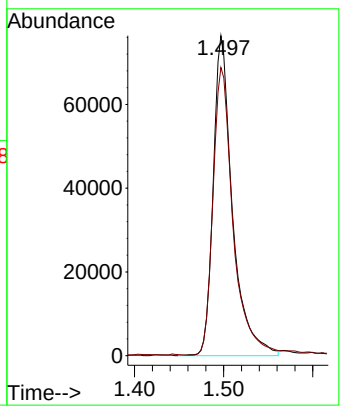


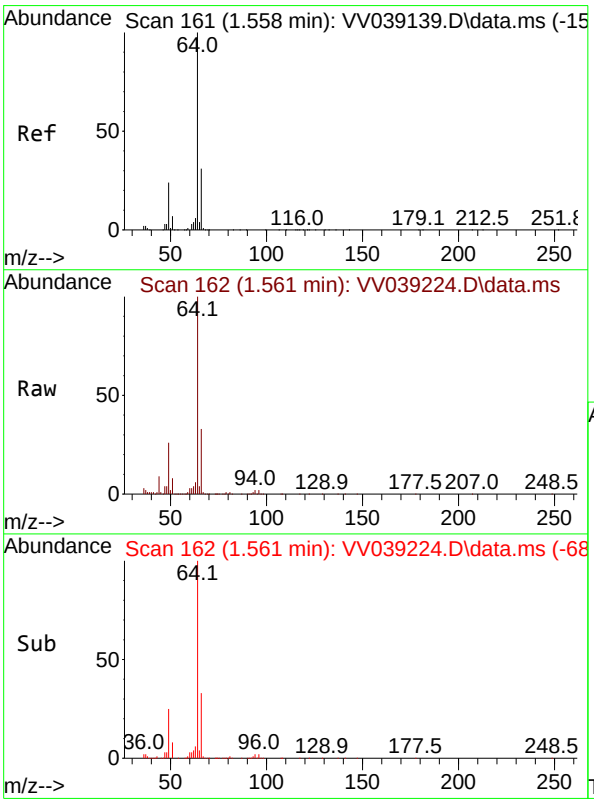

#5
Bromomethane
Concen: 19.365 ug/l
RT: 1.497 min Scan# 14
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion: 94 Resp: 114704

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 89.7 | 74.9 | 112.3 |

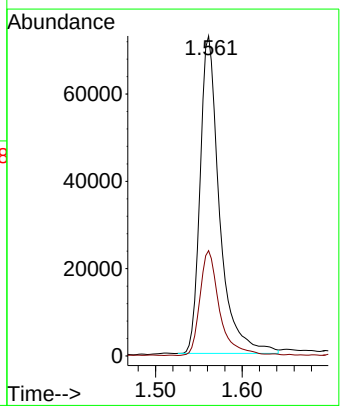


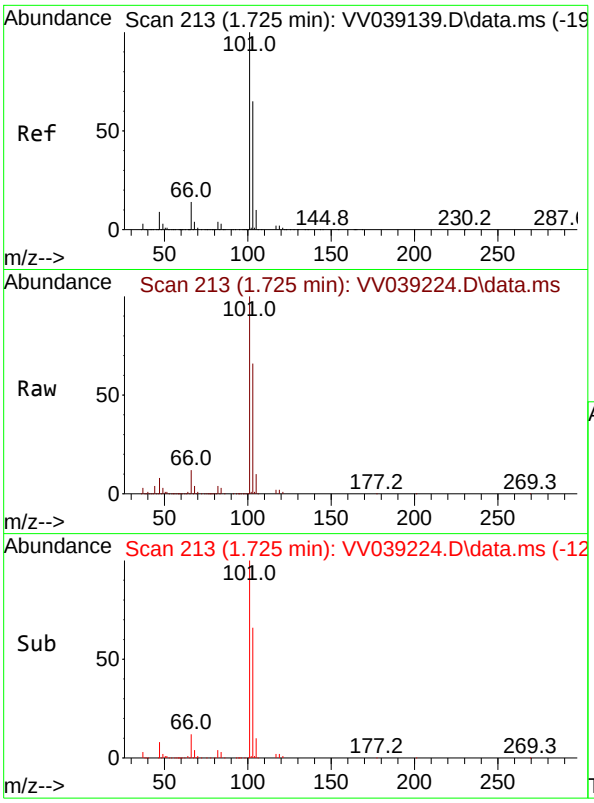




#6
Chloroethane
Concen: 19.254 ug/l
RT: 1.561 min Scan# 162
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 64 Resp: 113620

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 33.0 | 24.6 | 36.8 |



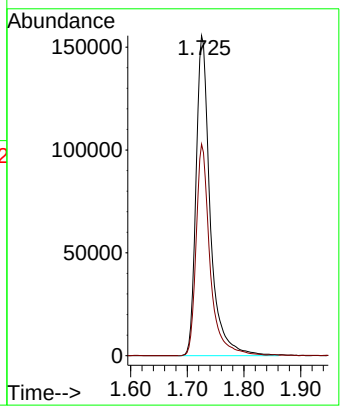


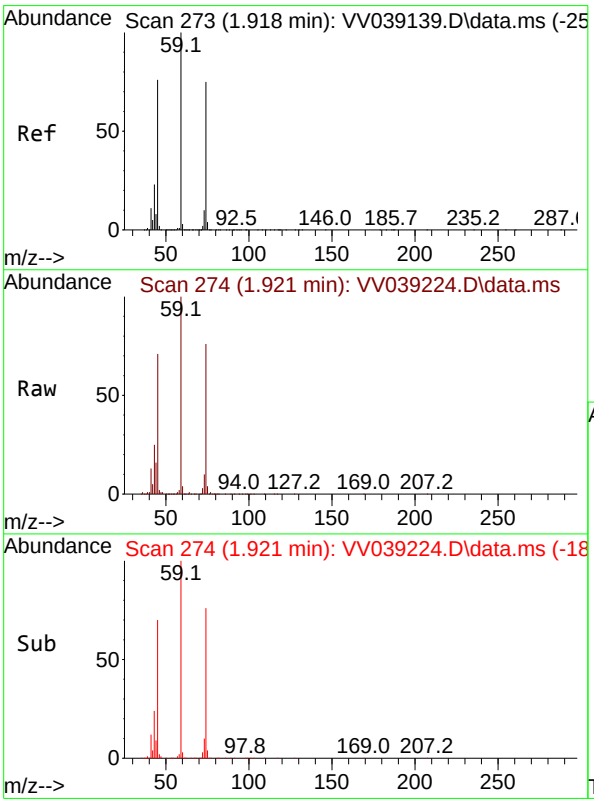

#7
Trichlorofluoromethane
Concen: 19.854 ug/l
RT: 1.725 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion:101 Resp: 270079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 66.1 | 52.0 | 78.0 |

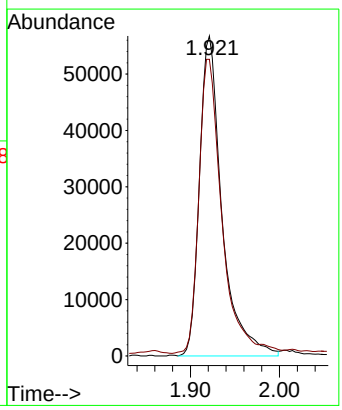


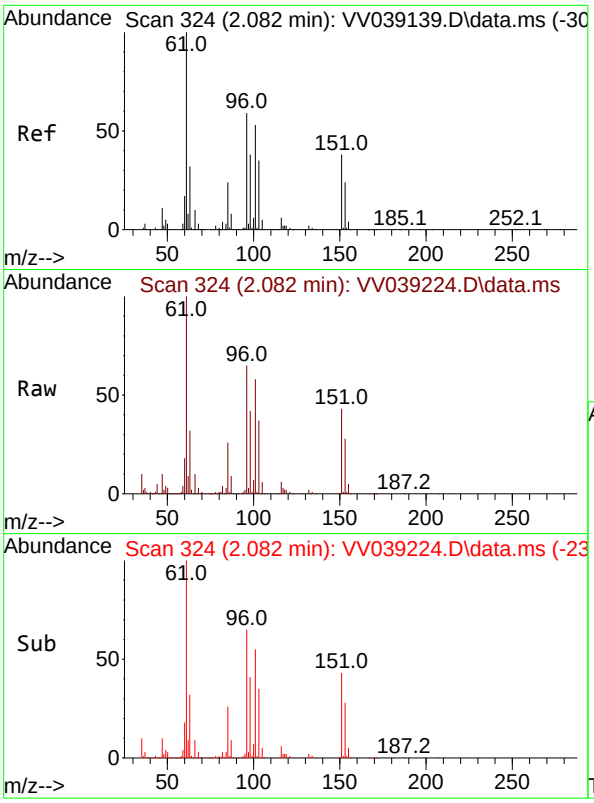




#8
Diethyl Ether
Concen: 19.741 ug/l
RT: 1.921 min Scan# 274
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 74 Resp: 99694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 93.4 | 49.6 | 148.8 |



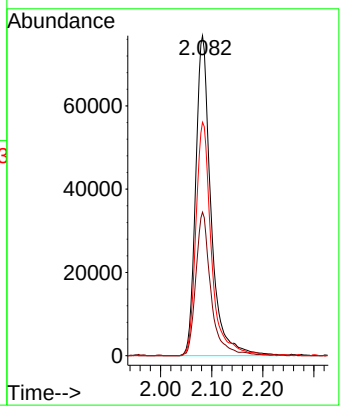


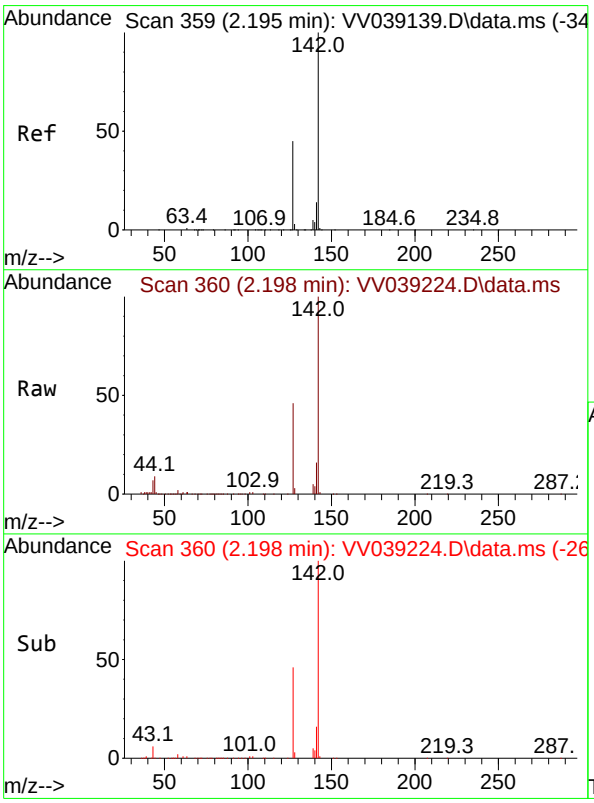

#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.733 ug/l
RT: 2.082 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion:101 Resp: 159720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 43.6 | 36.2 | 54.2 |
| 151 | 74.2 | 56.3 | 84.5 |

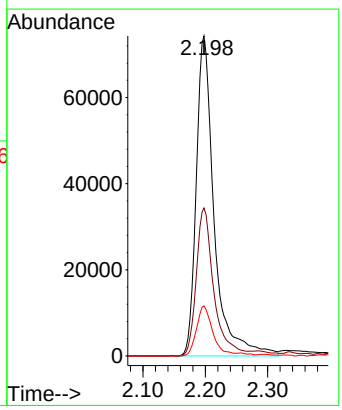


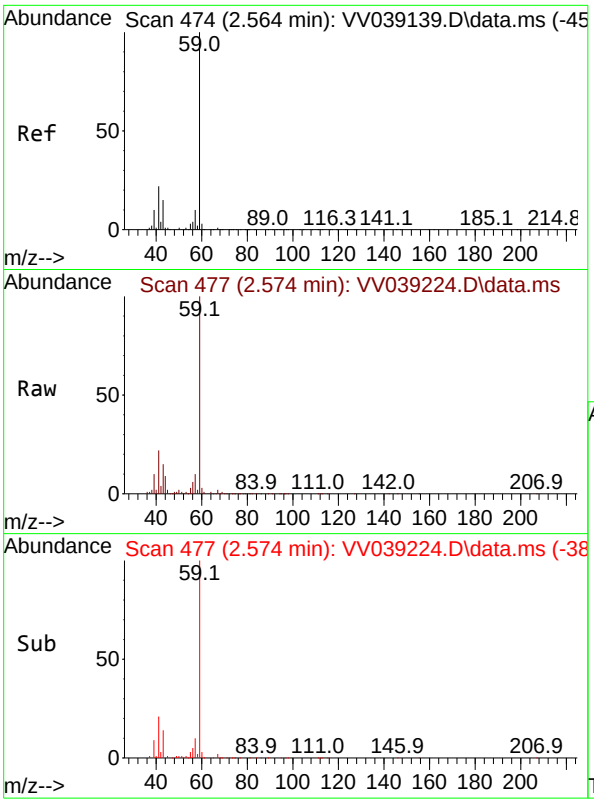




#10
Methyl Iodide
Concen: 19.300 ug/l
RT: 2.198 min Scan# 360
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion:142 Resp: 148763

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 45.0 | 36.3 | 54.5 |
| 141 | 14.2 | 11.2 | 16.8 |



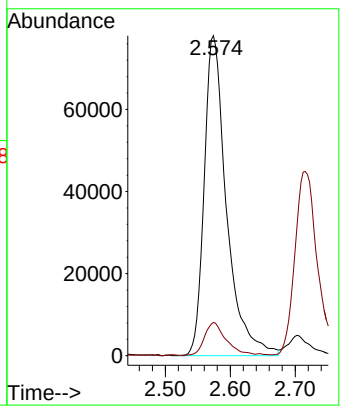


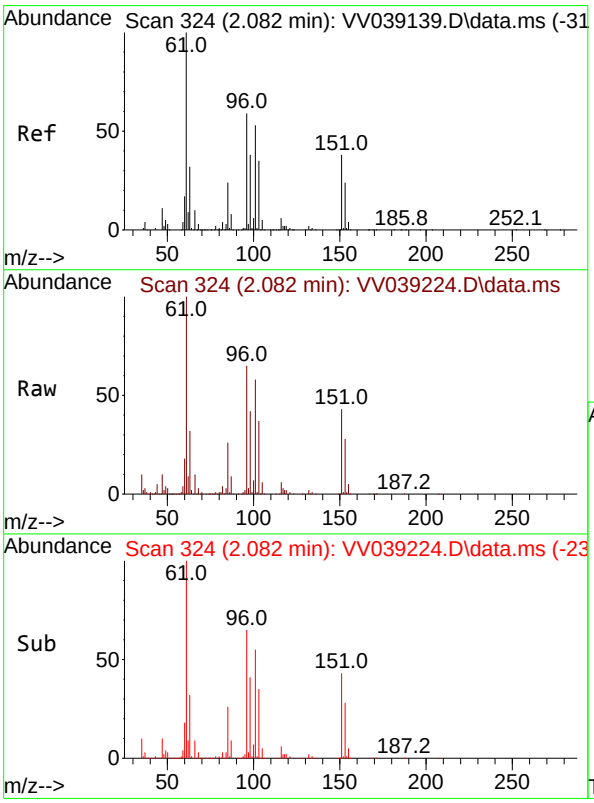

#11
Tert butyl alcohol
Concen: 118.256 ug/l
RT: 2.574 min Scan# 4
Delta R.T. 0.010 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion: 59 Resp: 186819

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.2 | 7.8 | 11.8 |

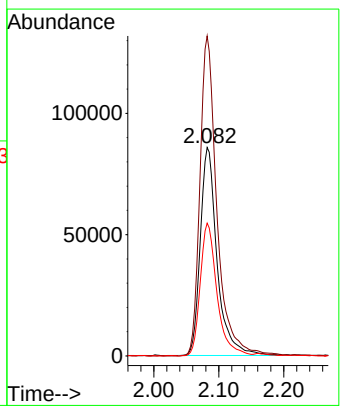


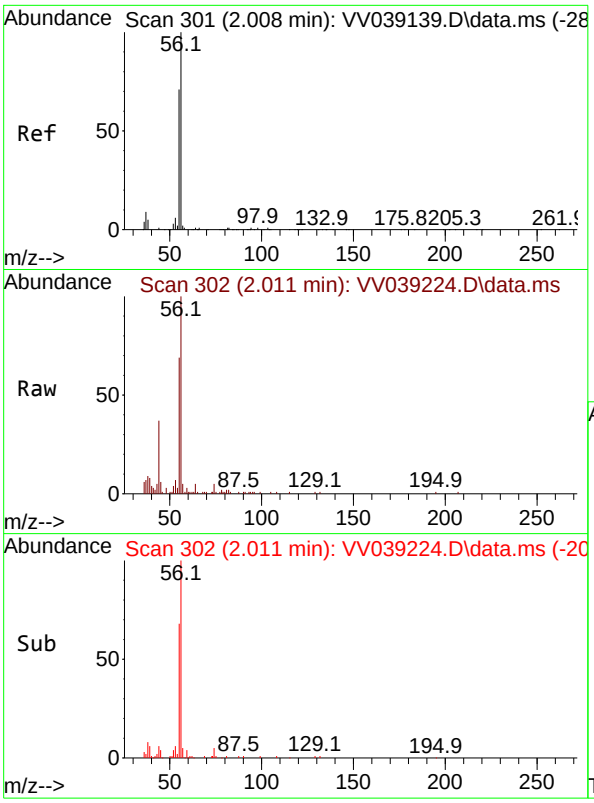




#12
1,1-Dichloroethene
Concen: 19.949 ug/l
RT: 2.082 min Scan# 324
Delta R.T. -0.000 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 96 Resp: 155340

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 153.8 | 136.0 | 204.0 |
| 98 | 63.9 | 51.0 | 76.6 |



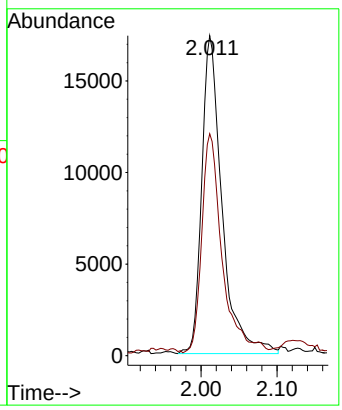


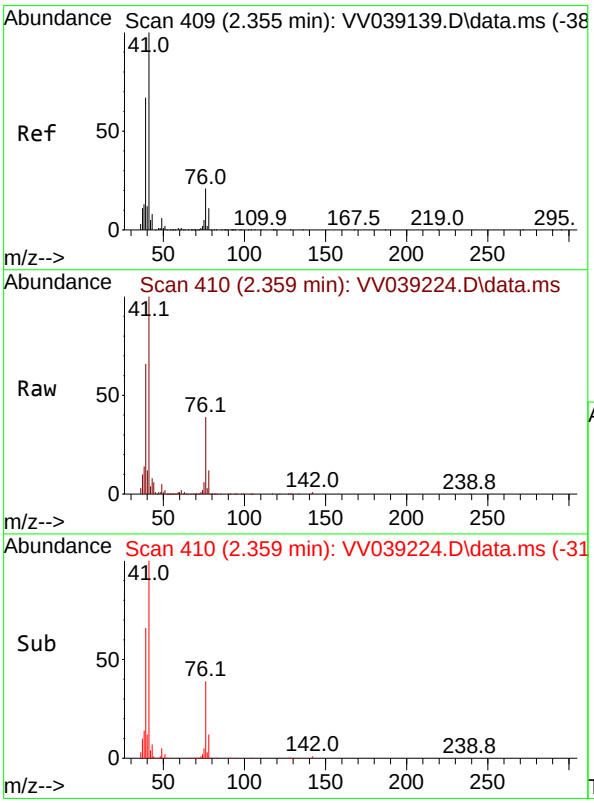

#13
Acrolein
Concen: 116.997 ug/l
RT: 2.011 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion: 56 Resp: 32072

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 67.5 | 56.2 | 84.4 |

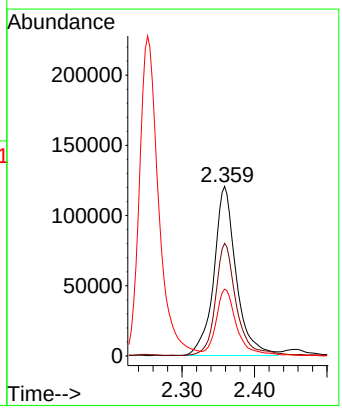


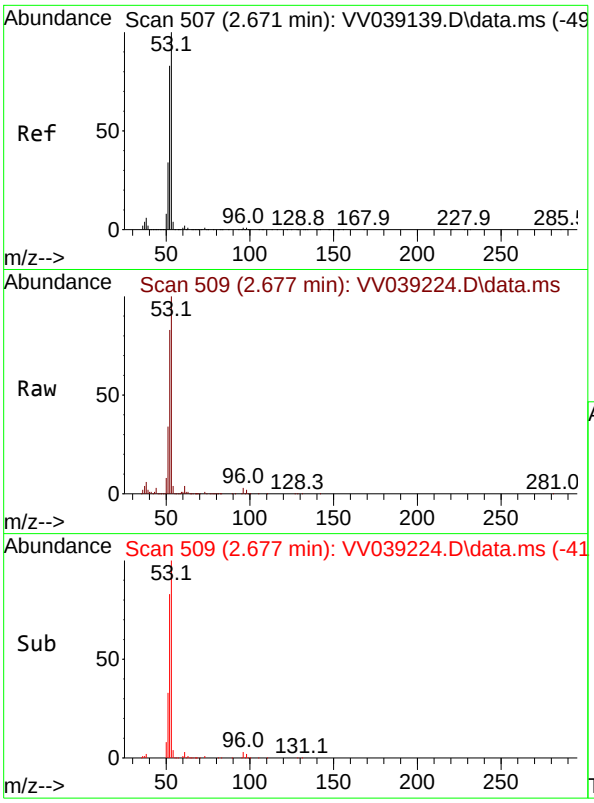




#14
Allyl chloride
Concen: 18.473 ug/l
RT: 2.359 min Scan# 410
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 41 Resp: 256953

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 61.9 | 51.0 | 76.6 |
| 76 | 36.4 | 28.2 | 42.4 |



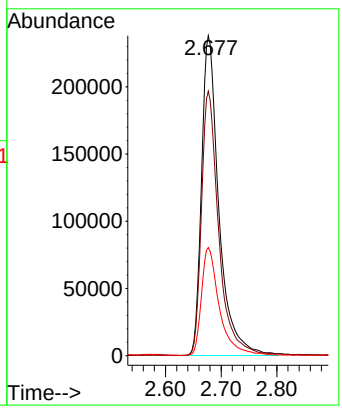


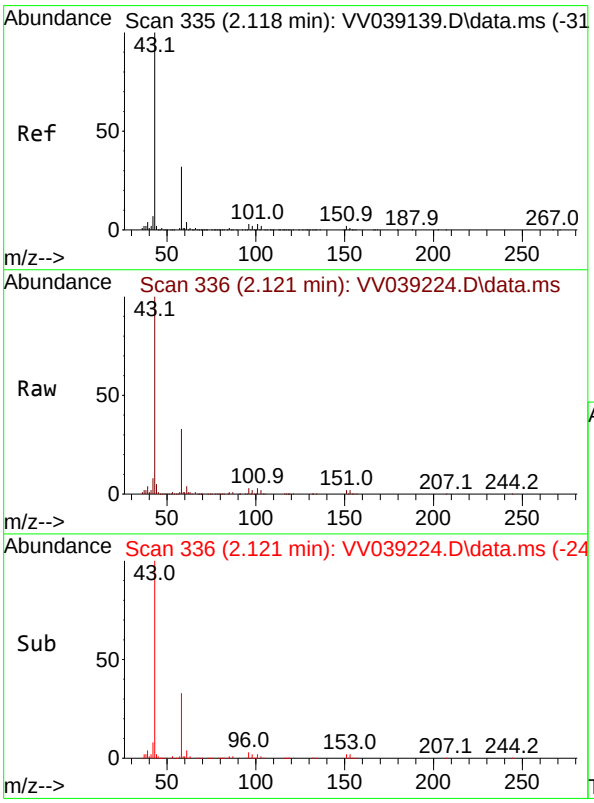

#15
Acrylonitrile
Concen: 101.816 ug/l
RT: 2.677 min Scan# 5
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion: 53 Resp: 515622

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.9 | 66.1 | 99.1 |
| 51 | 34.9 | 28.5 | 42.7 |

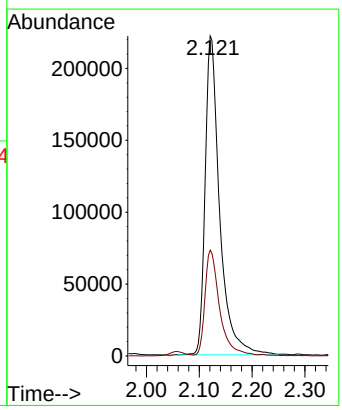


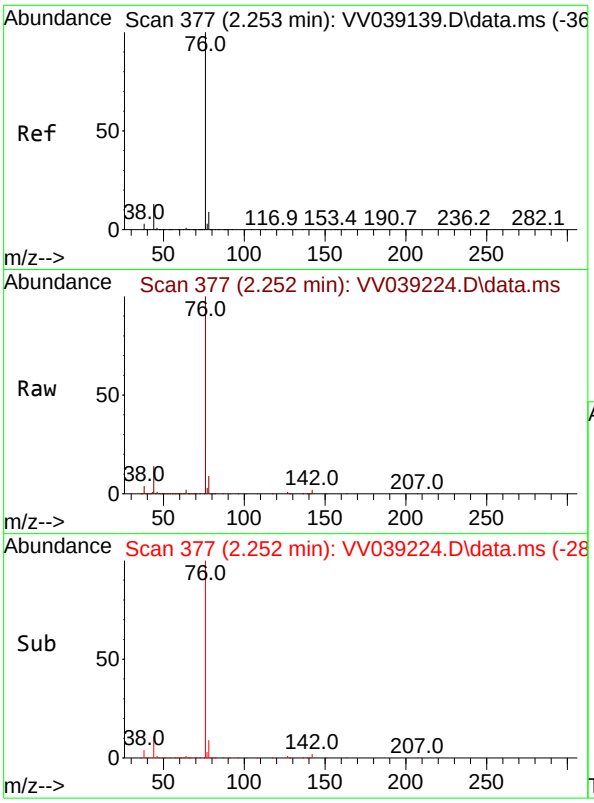




#16
Acetone
Concen: 84.862 ug/l
RT: 2.121 min Scan# 336
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 43 Resp: 422540

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.0 | 25.8 | 38.6 |



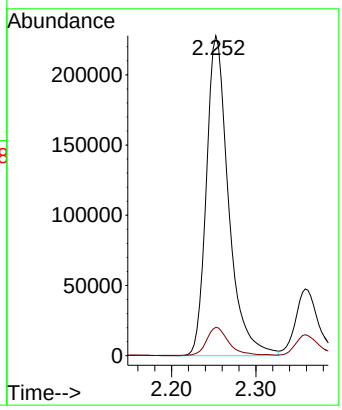


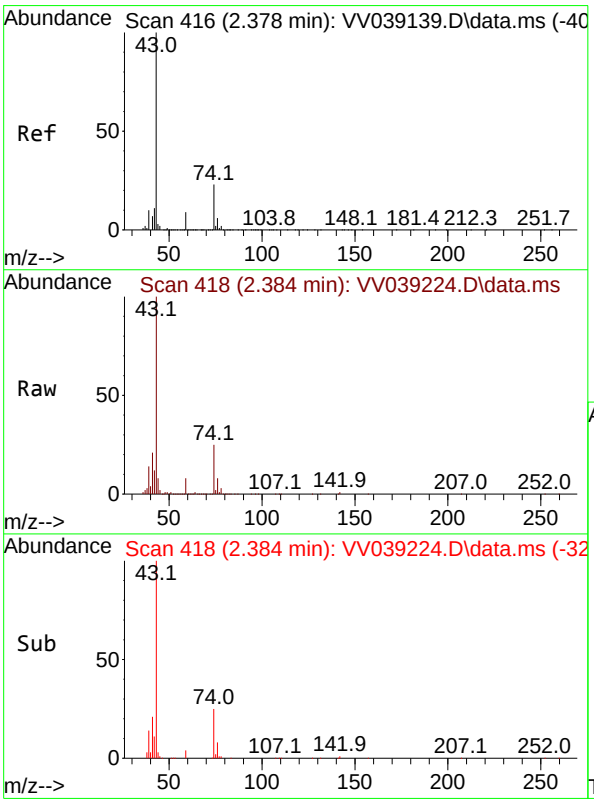

#17
Carbon Disulfide
Concen: 17.521 ug/l
RT: 2.252 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion: 76 Resp: 417256

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.8 | 7.4 | 11.0 |

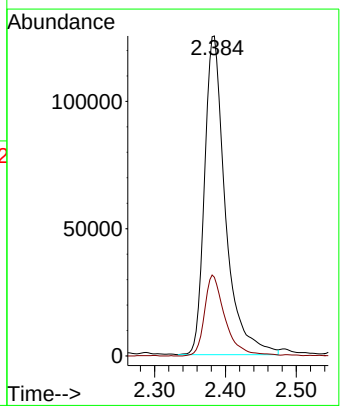


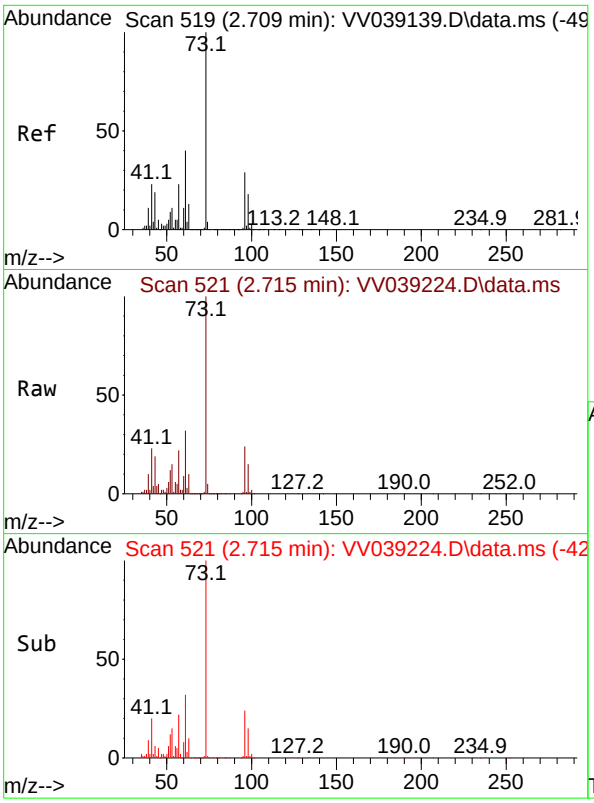




#18
Methyl Acetate
Concen: 23.081 ug/l
RT: 2.384 min Scan# 418
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 43 Resp: 255620

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 25.2 | 18.6 | 27.8 |



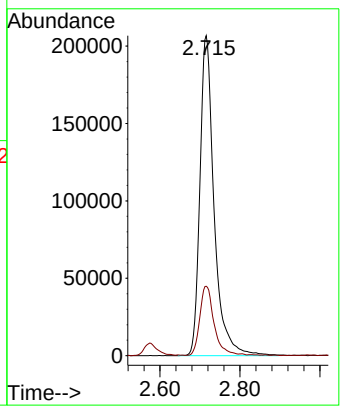


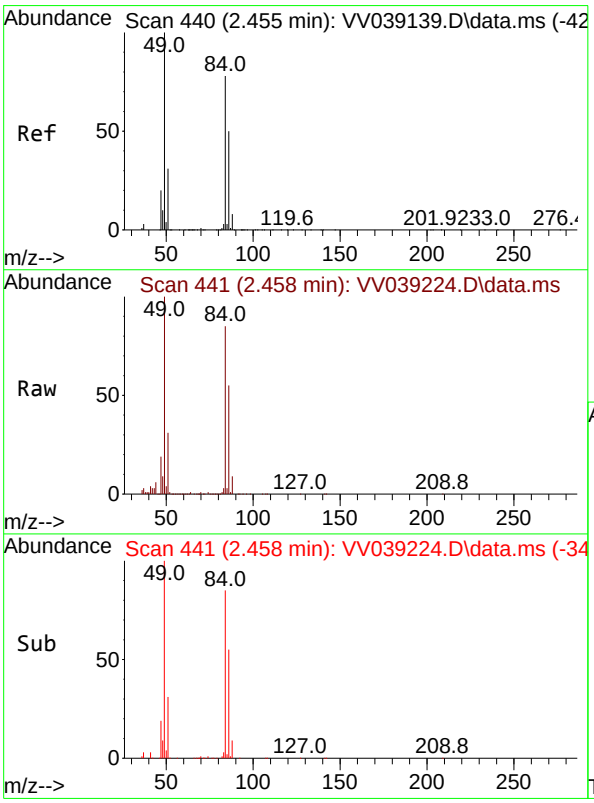

#19
Methyl tert-butyl Ether
Concen: 20.608 ug/l
RT: 2.715 min Scan# 5
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion: 73 Resp: 511335

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.6 | 18.2 | 27.4 |

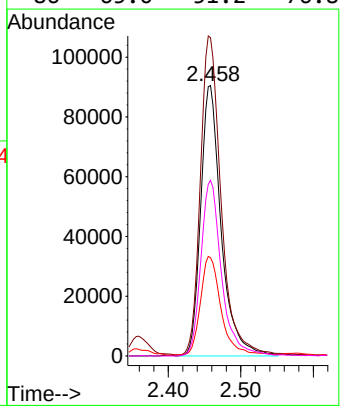


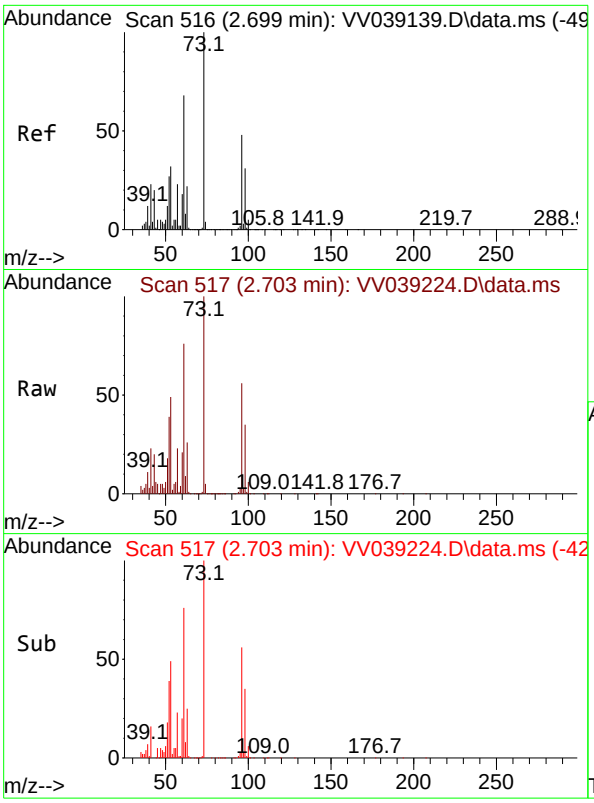




#20
Methylene Chloride
Concen: 20.544 ug/l
RT: 2.458 min Scan# 441
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 84 Resp: 178236

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 117.3 | 102.8 | 154.2 |
| 51 | 35.9 | 31.9 | 47.9 |
| 86 | 65.0 | 51.2 | 76.8 |



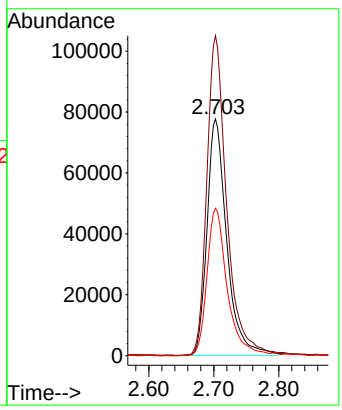


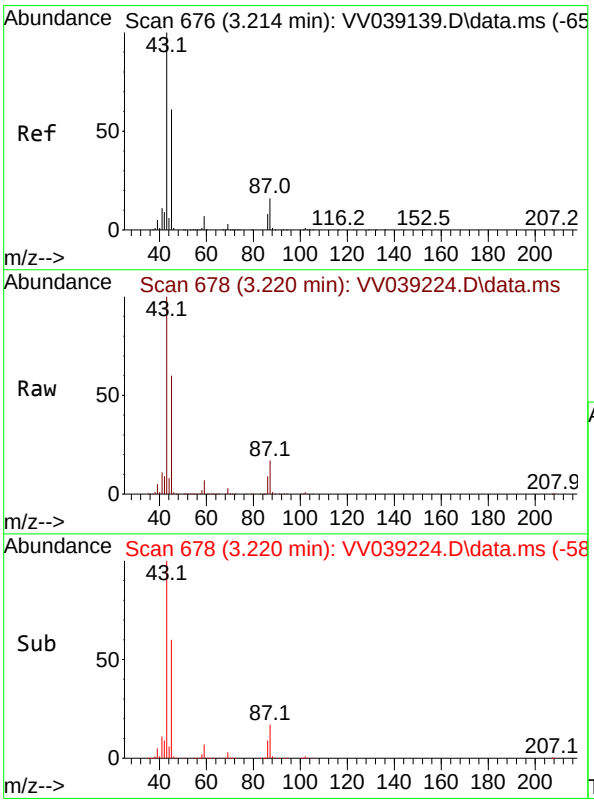

#21
trans-1,2-Dichloroethene
Concen: 19.780 ug/l
RT: 2.703 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion: 96 Resp: 163972

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 135.4 | 112.8 | 169.2 |
| 98 | 62.4 | 51.1 | 76.7 |

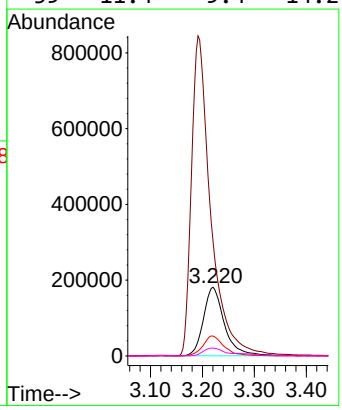


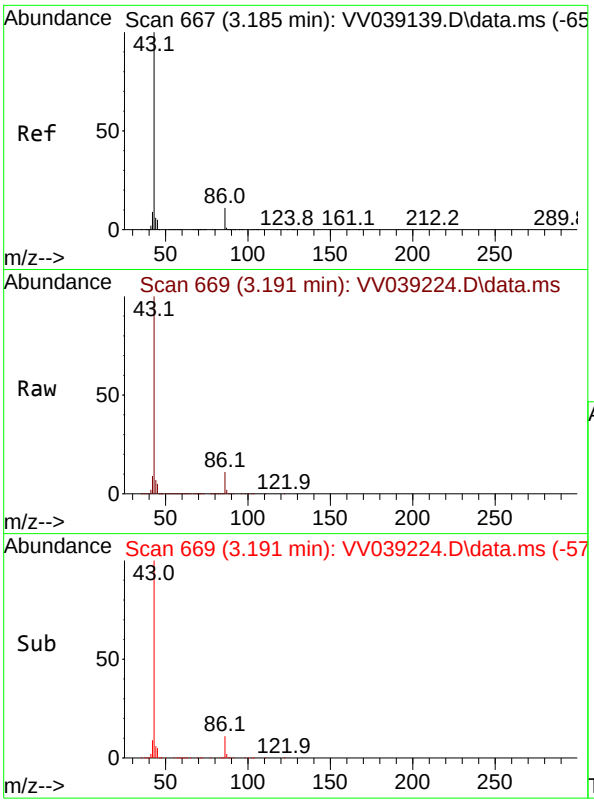




#22
Diisopropyl ether
Concen: 19.010 ug/l
RT: 3.220 min Scan# 678
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 45 Resp: 505903

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 166.8 | 130.9 | 196.3 |
| 87 | 28.7 | 21.1 | 31.7 |
| 59 | 11.4 | 9.4 | 14.2 |



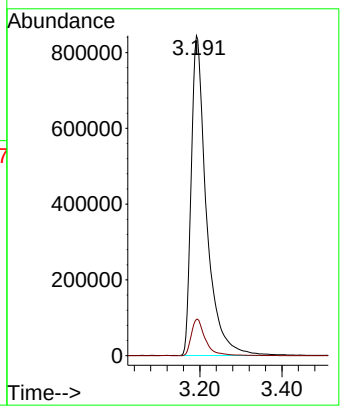


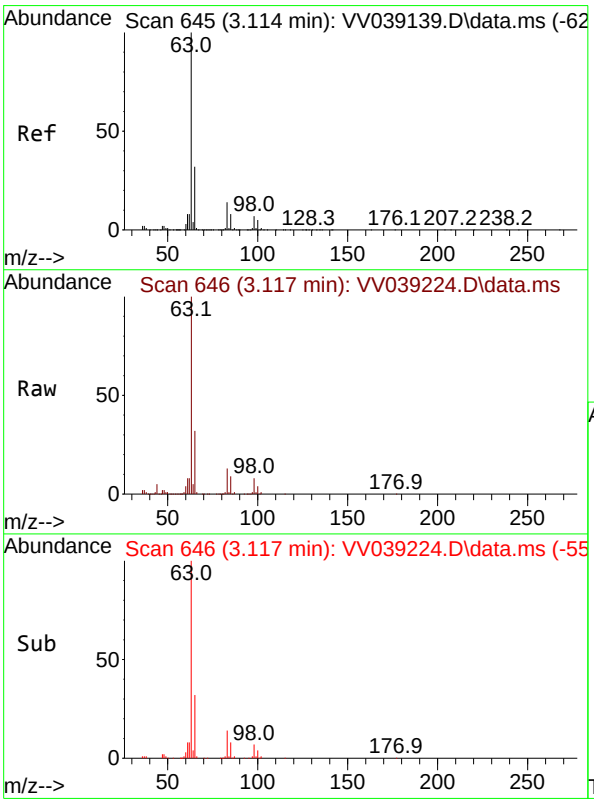

#23
Vinyl Acetate
Concen: 93.651 ug/l
RT: 3.191 min Scan# 6
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion: 43 Resp: 2180218

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.3 | 8.4 | 12.6 |

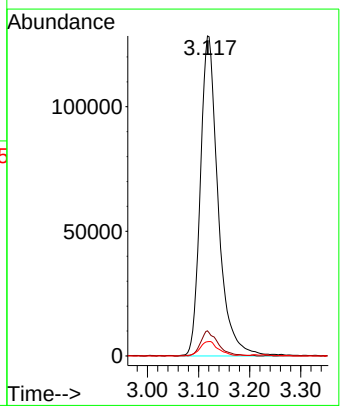


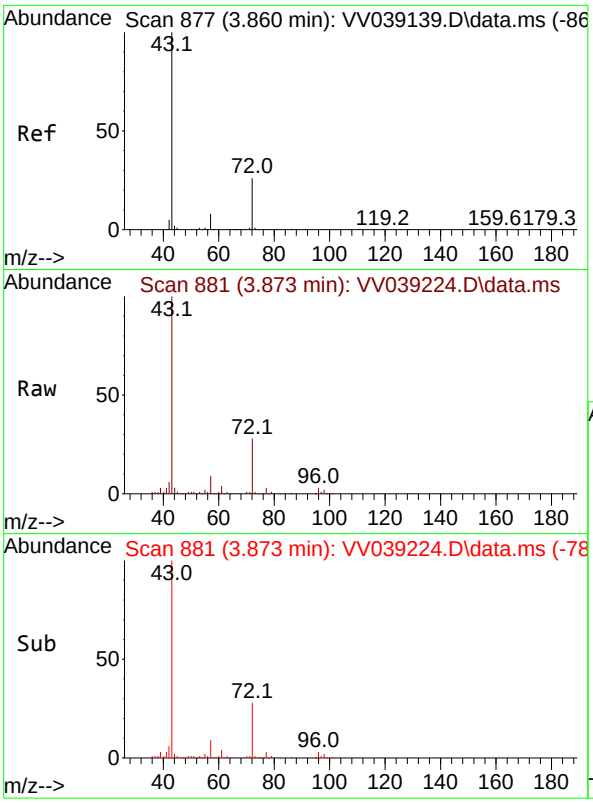




#24
1,1-Dichloroethane
Concen: 19.099 ug/l
RT: 3.117 min Scan# 646
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 63 Resp: 310829

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.8 | 3.4 | 10.2 |
| 100 | 4.4 | 2.2 | 6.6 |



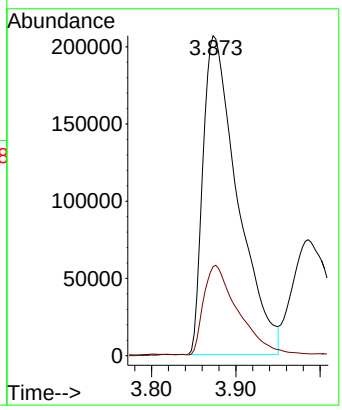


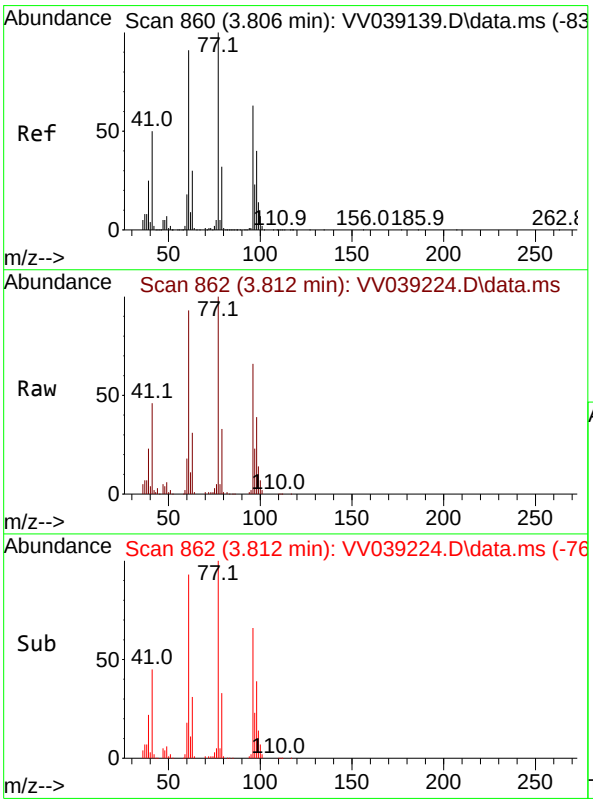

#25
2-Butanone
Concen: 98.528 ug/l
RT: 3.873 min Scan# 8
Delta R.T. 0.013 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion: 43 Resp: 589737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 27.6 | 21.0 | 31.6 |

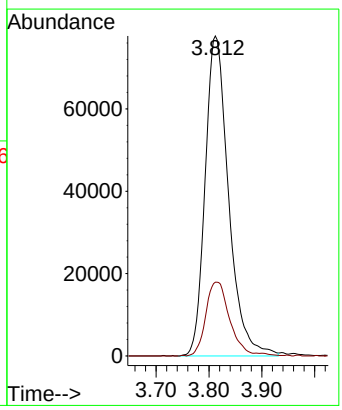


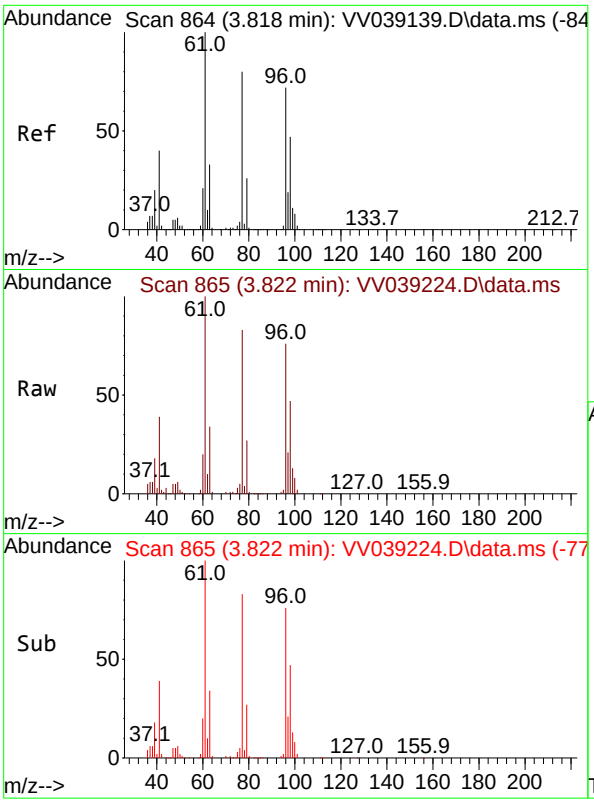




#26
2,2-Dichloropropane
Concen: 16.607 ug/l
RT: 3.812 min Scan# 862
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 77 Resp: 239643

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.2 | 11.6 | 34.7 |



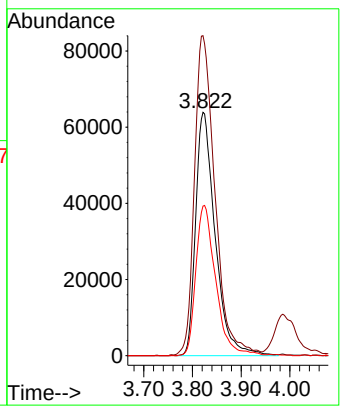


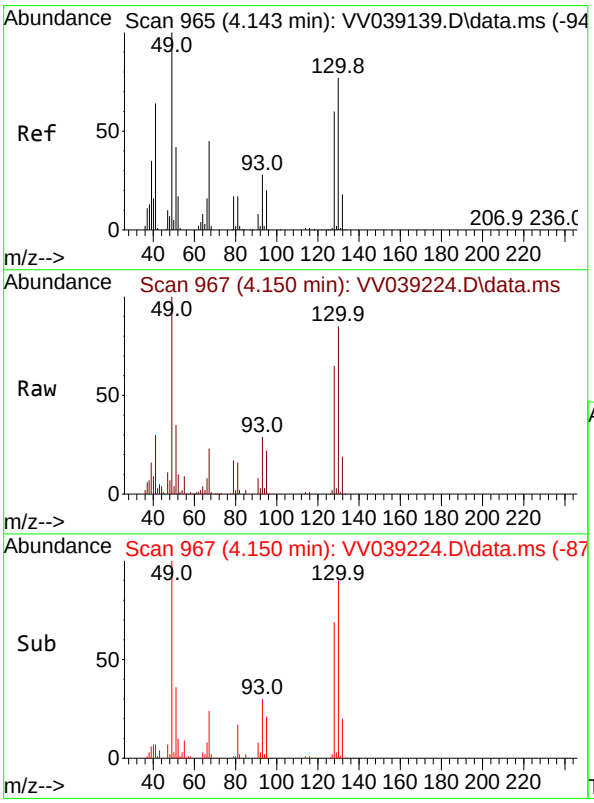

#27
cis-1,2-Dichloroethene
Concen: 19.483 ug/l
RT: 3.822 min Scan# 8
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion: 96 Resp: 178123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 138.4 | 0.0 | 286.4 |
| 98 | 62.7 | 0.0 | 126.6 |

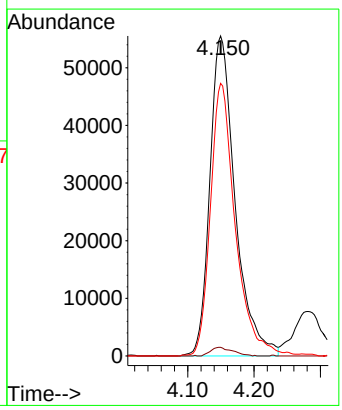


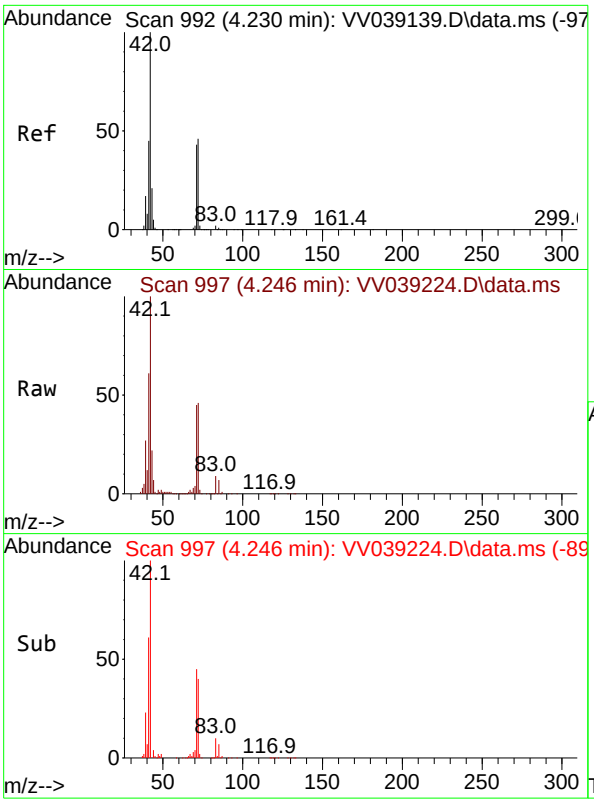




#28
Bromochloromethane
Concen: 20.478 ug/l
RT: 4.150 min Scan# 967
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 49 Resp: 147124

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.4 | 0.0 | 4.2 |
| 130 | 83.6 | 60.2 | 90.2 |



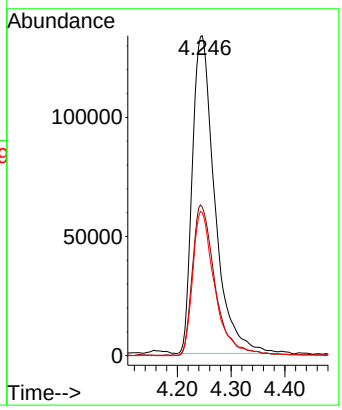


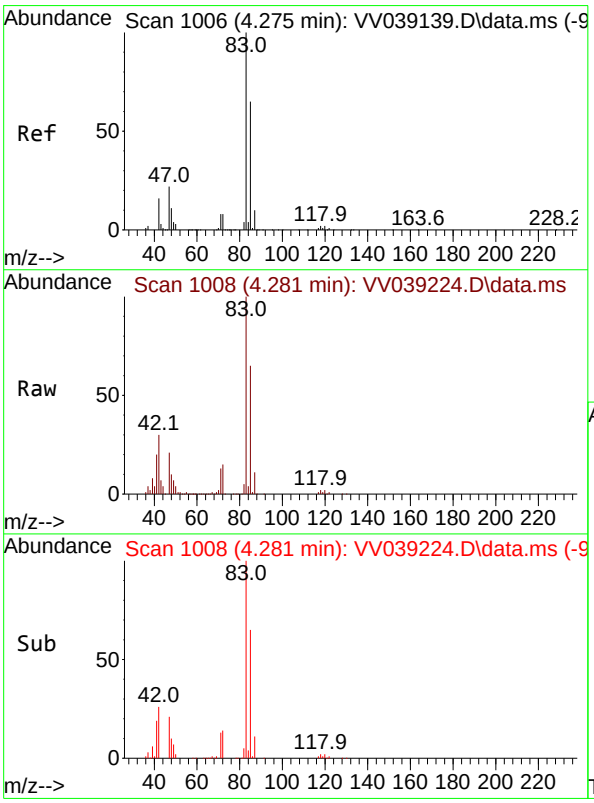

#29
Tetrahydrofuran
Concen: 103.551 ug/l
RT: 4.246 min Scan# 9
Delta R.T. 0.016 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion: 42 Resp: 387946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 47.3 | 36.3 | 54.5 |
| 71 | 45.1 | 34.3 | 51.5 |

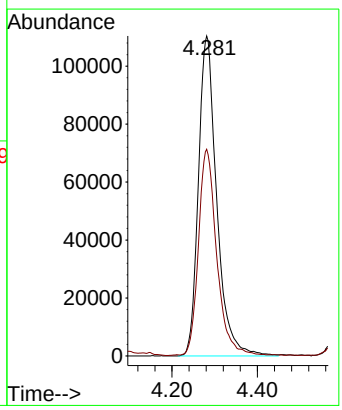


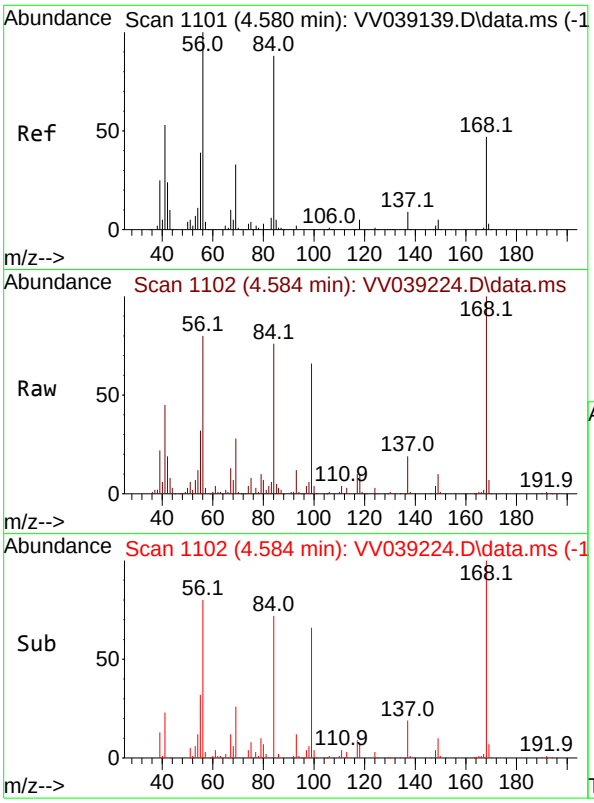




#30
Chloroform
Concen: 19.335 ug/l
RT: 4.281 min Scan# 1008
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 83 Resp: 328585

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.3 | 52.1 | 78.1 |



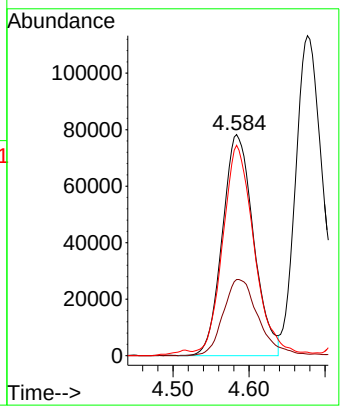


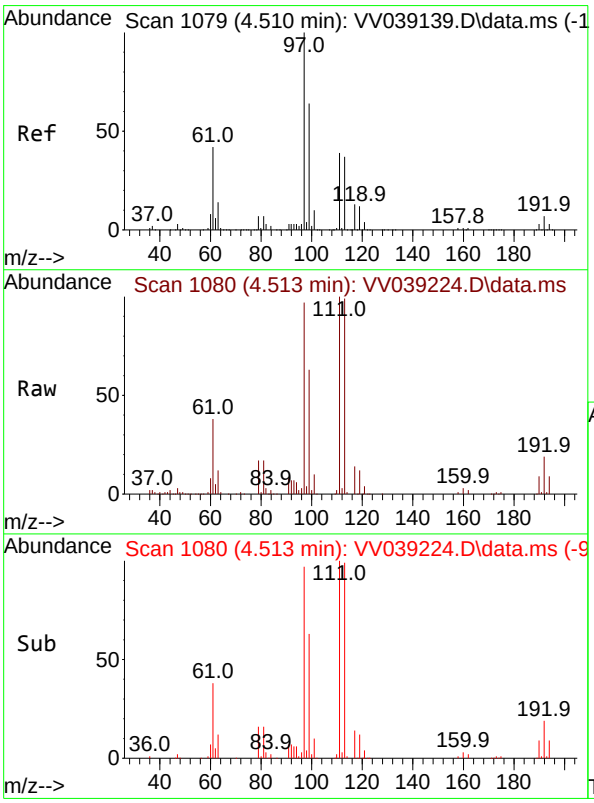

#31
Cyclohexane
Concen: 16.783 ug/l
RT: 4.584 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion: 56 Resp: 223750

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 34.4 | 26.2 | 39.2 |
| 84 | 93.5 | 70.3 | 105.5 |

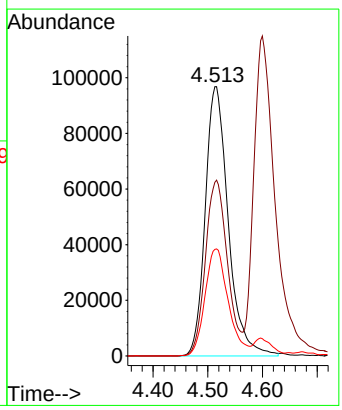


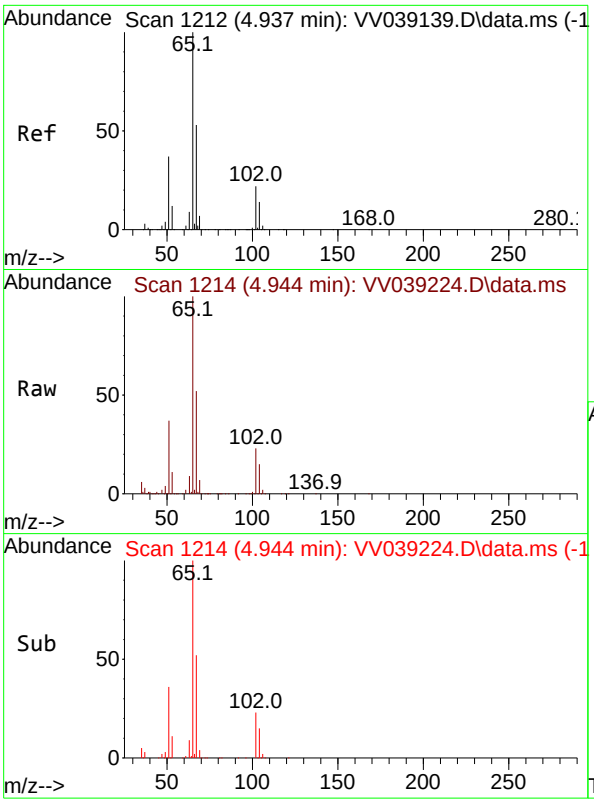




#32
1,1,1-Trichloroethane
Concen: 19.211 ug/l
RT: 4.513 min Scan# 1080
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 97 Resp: 282636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 62.7 | 49.6 | 74.4 |
| 61 | 40.0 | 34.5 | 51.7 |



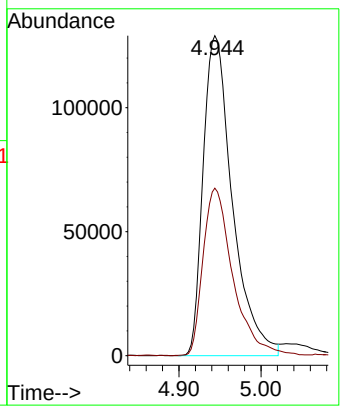


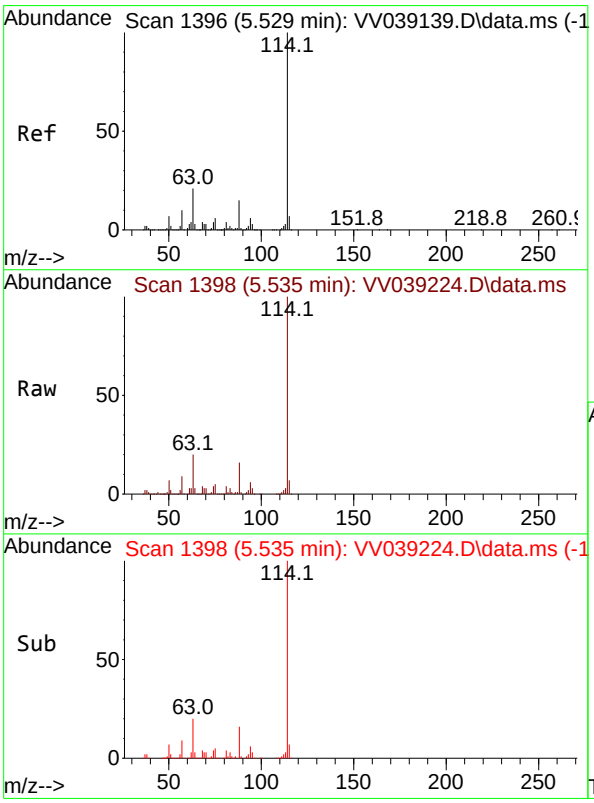

#33
1,2-Dichloroethane-d4
Concen: 42.778 ug/l
RT: 4.944 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion: 65 Resp: 319747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.6 | 0.0 | 107.0 |

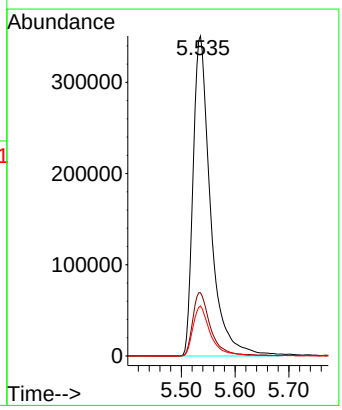


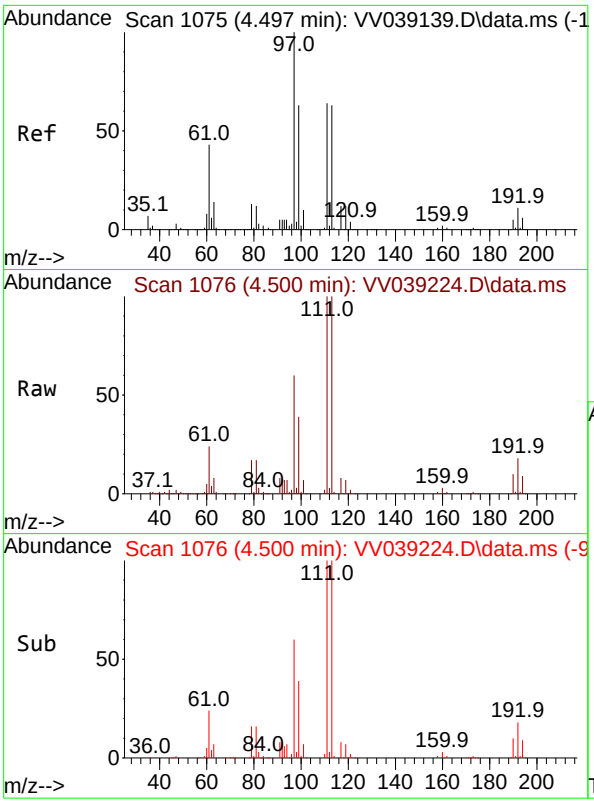




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.535 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion:114 Resp: 792956

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.7 | 0.0 | 42.6 |
| 88 | 15.6 | 0.0 | 30.8 |



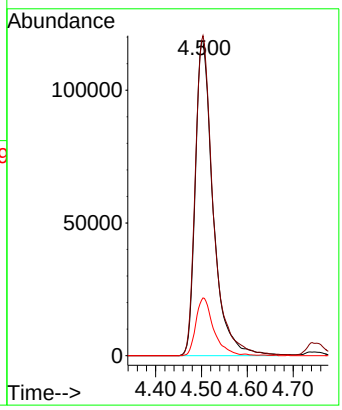


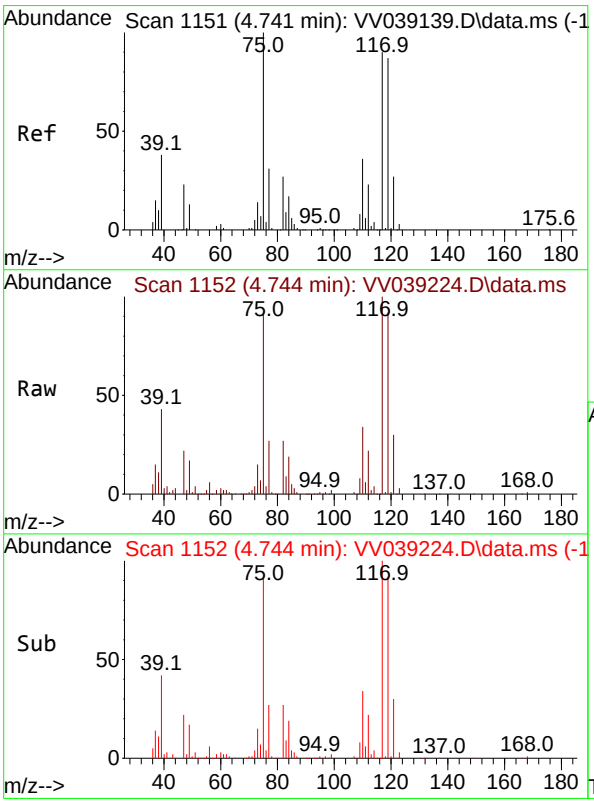

#35
Dibromofluoromethane
Concen: 50.231 ug/l
RT: 4.500 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion:113 Resp: 320211

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.1 | 82.4 | 123.6 |
| 192 | 18.2 | 13.8 | 20.8 |

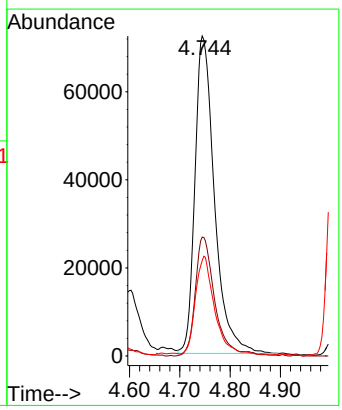


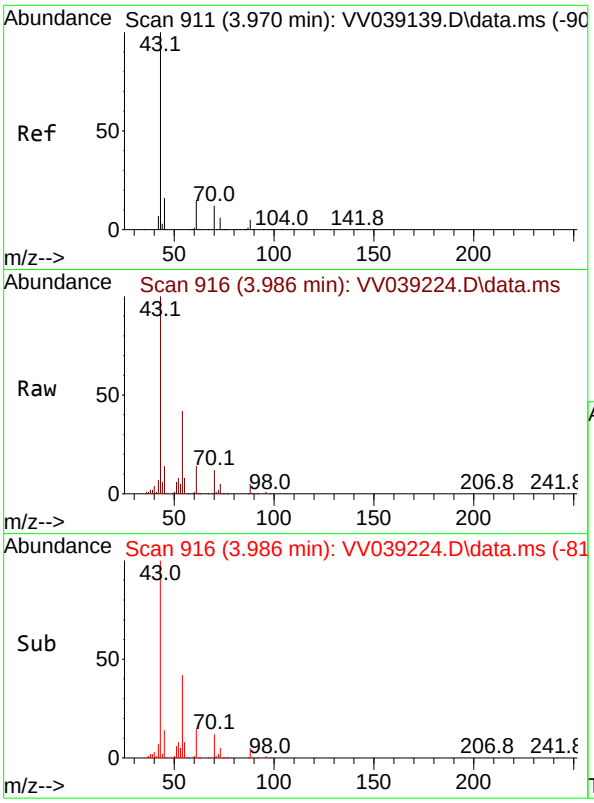




#36
1,1-Dichloropropene
Concen: 20.218 ug/l
RT: 4.744 min Scan# 1152
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 75 Resp: 194860

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 37.7 | 18.1 | 54.1 |
| 77 | 29.2 | 24.8 | 37.2 |



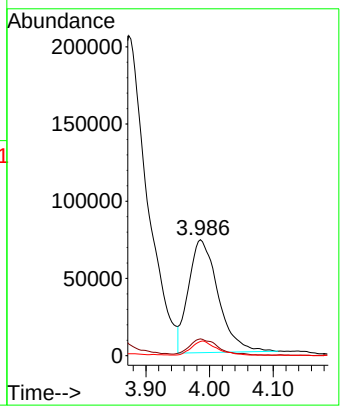


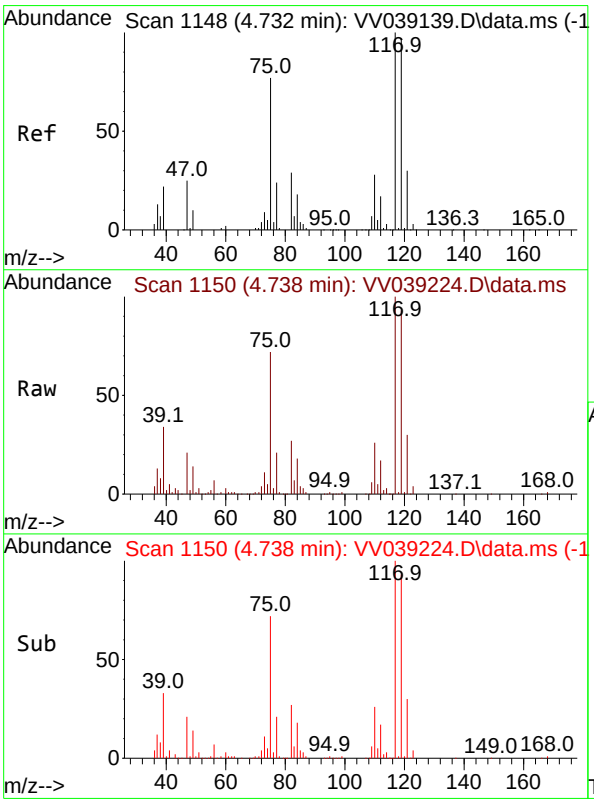

#37
Ethyl Acetate
Concen: 20.249 ug/l
RT: 3.986 min Scan# 91
Delta R.T. 0.016 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion: 43 Resp: 236815

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 11.9 | 10.3 | 15.5 |
| 70 | 10.3 | 8.0 | 12.0 |

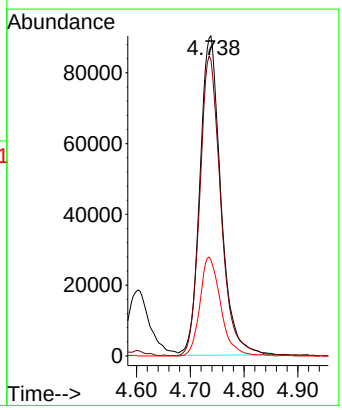


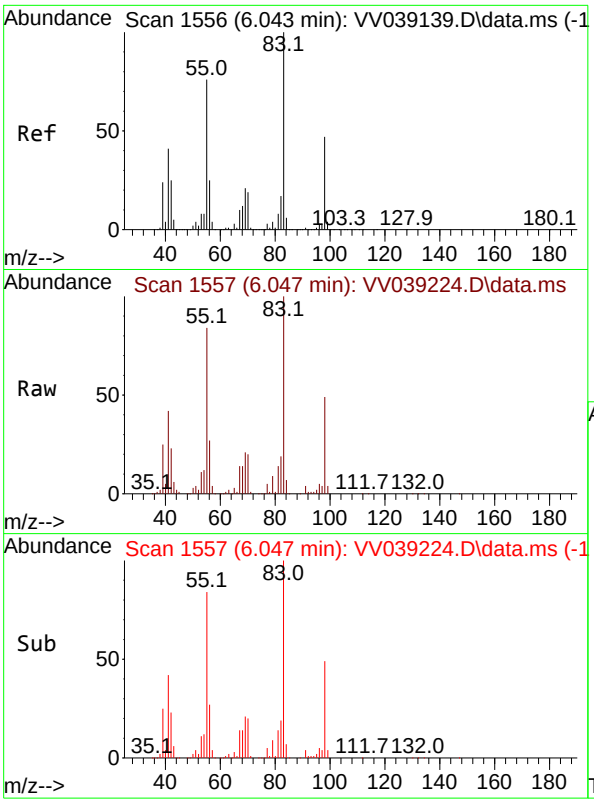




#38
Carbon Tetrachloride
Concen: 20.706 ug/l
RT: 4.738 min Scan# 1150
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion:117 Resp: 243896

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 92.9 | 77.2 | 115.8 |
| 121 | 30.2 | 24.2 | 36.2 |



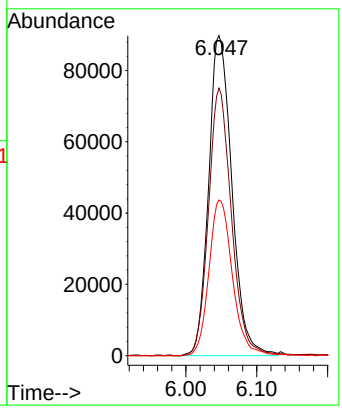


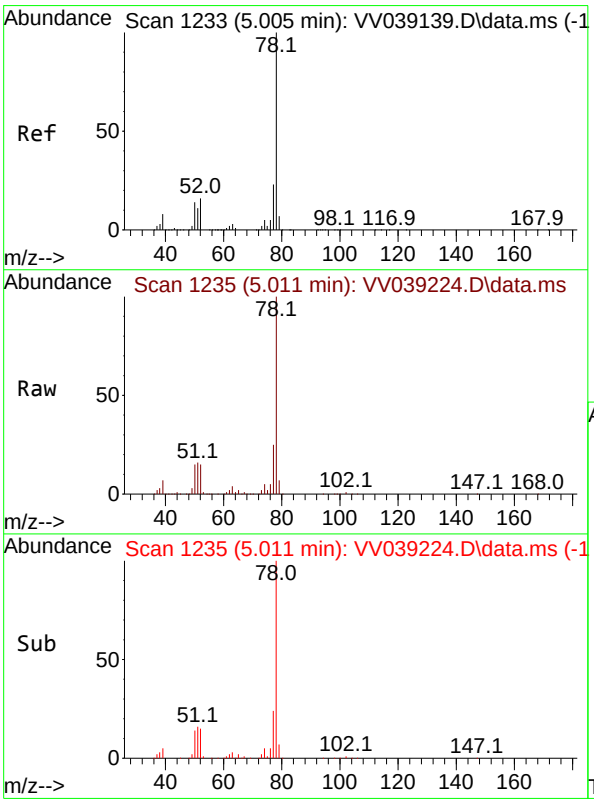

#39
Methylcyclohexane
Concen: 17.650 ug/l
RT: 6.047 min Scan# 1
Delta R.T. 0.004 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion: 83 Resp: 205429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 83.6 | 60.5 | 90.7 |
| 98 | 48.7 | 37.8 | 56.6 |

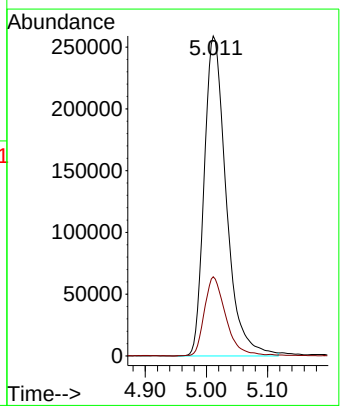


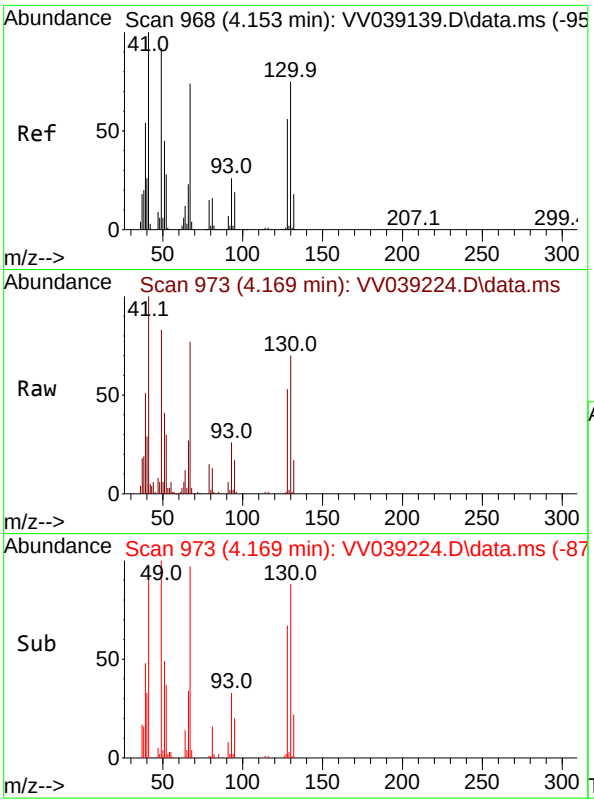




#40
Benzene
Concen: 20.619 ug/l
RT: 5.011 min Scan# 1235
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 78 Resp: 647129

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.7 | 18.7 | 28.1 |



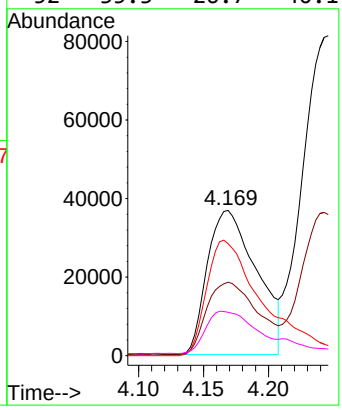


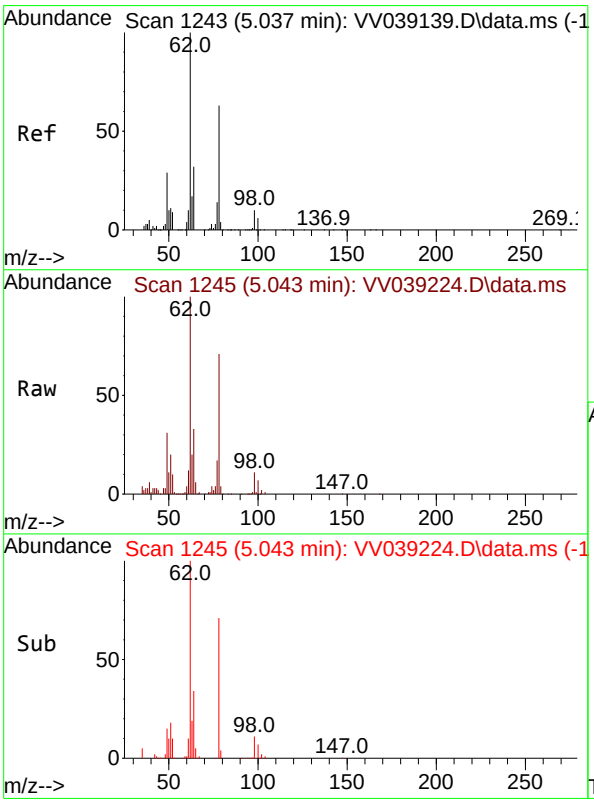

#41
Methacrylonitrile
Concen: 19.547 ug/l
RT: 4.169 min Scan# 9
Delta R.T. 0.016 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion: 41 Resp: 96963

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 52.1 | 42.2 | 63.2 |
| 67 | 93.5 | 67.9 | 101.9 |
| 52 | 35.3 | 26.7 | 40.1 |

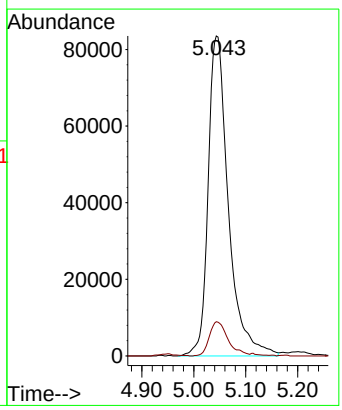


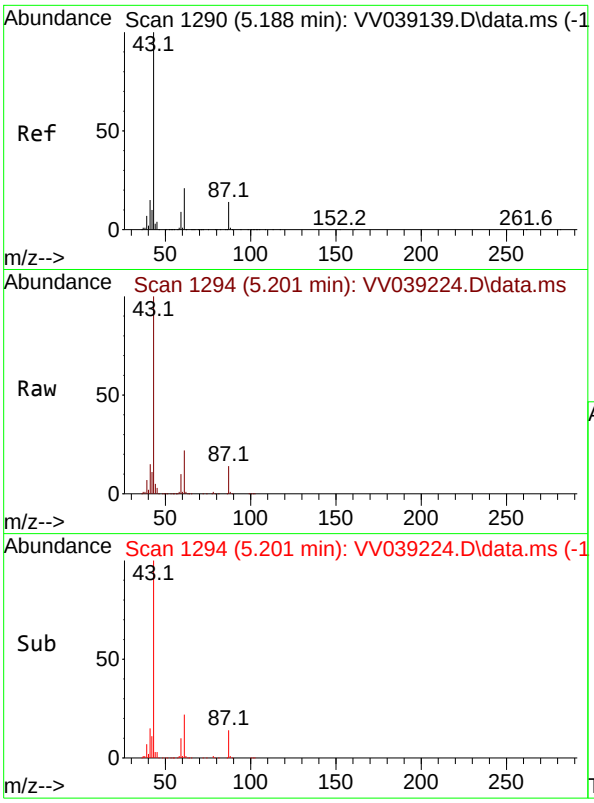




#42
1,2-Dichloroethane
Concen: 20.546 ug/l
RT: 5.043 min Scan# 1245
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 62 Resp: 225943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.9 | 0.0 | 19.2 |



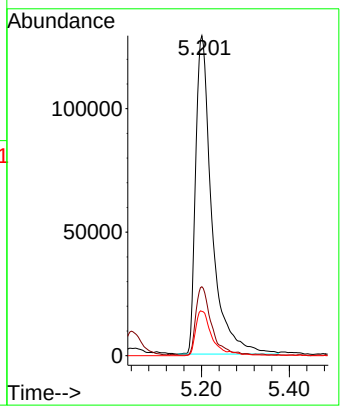


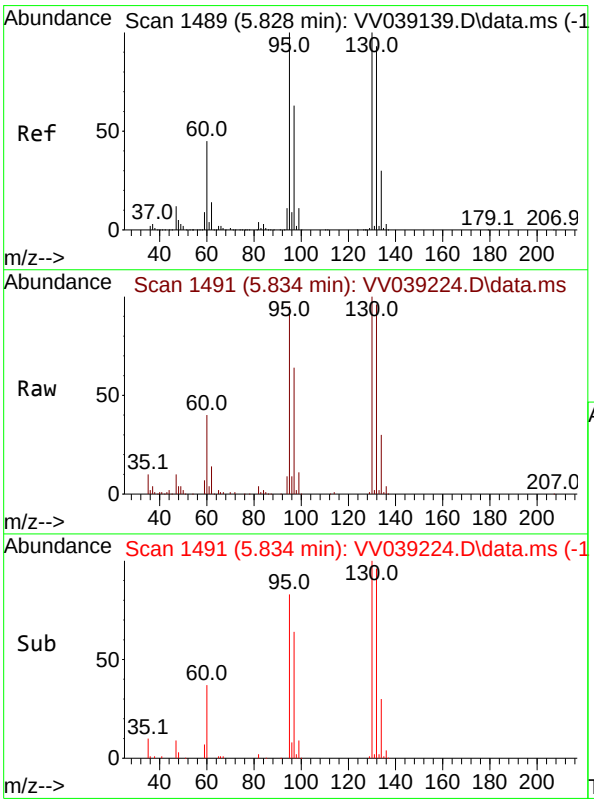

#43
Isopropyl Acetate
Concen: 20.762 ug/l
RT: 5.201 min Scan# 1
Delta R.T. 0.013 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion: 43 Resp: 331062

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 20.0 | 15.9 | 23.9 |
| 87 | 13.3 | 11.0 | 16.6 |

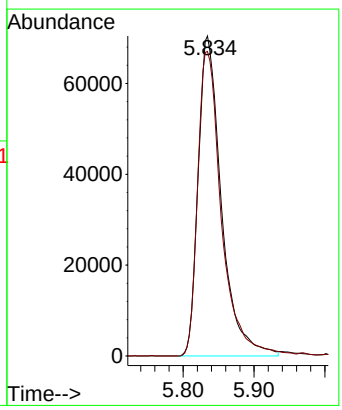


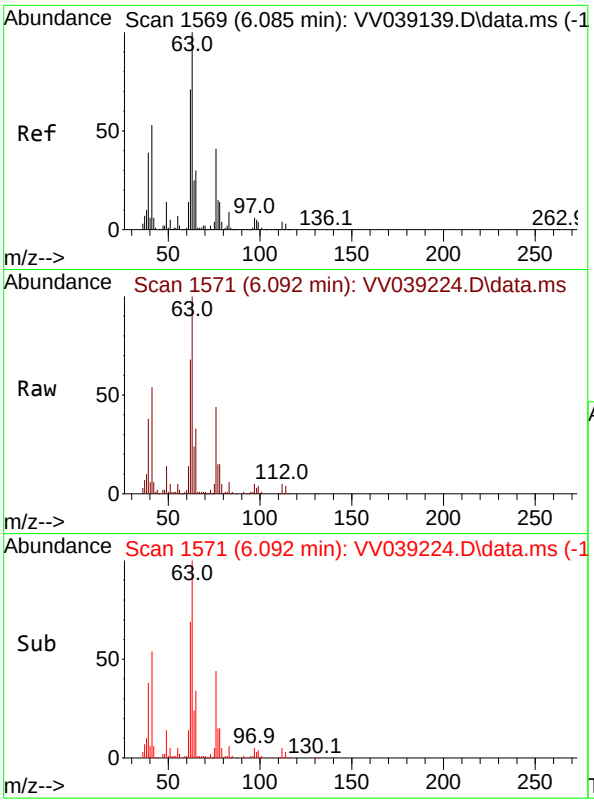




#44
Trichloroethene
Concen: 22.097 ug/l
RT: 5.834 min Scan# 1491
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion:130 Resp: 160027

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 95.2 | 0.0 | 199.2 |



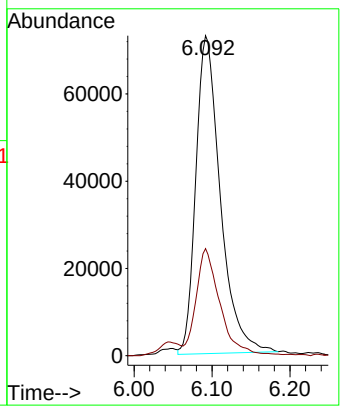


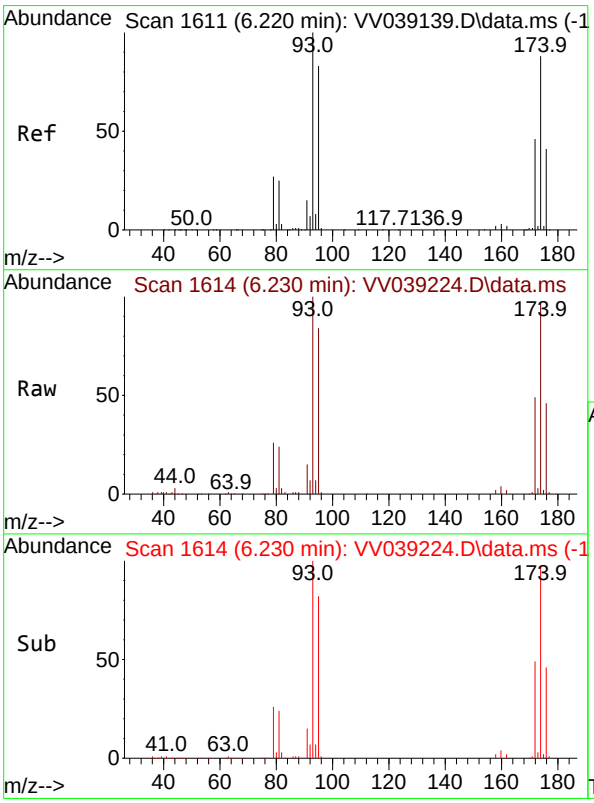

#45
1,2-Dichloropropane
Concen: 20.387 ug/l
RT: 6.092 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion: 63 Resp: 159034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 33.4 | 23.7 | 35.5 |

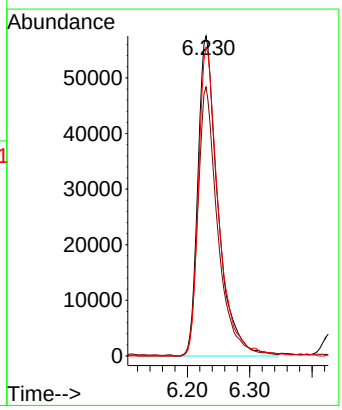


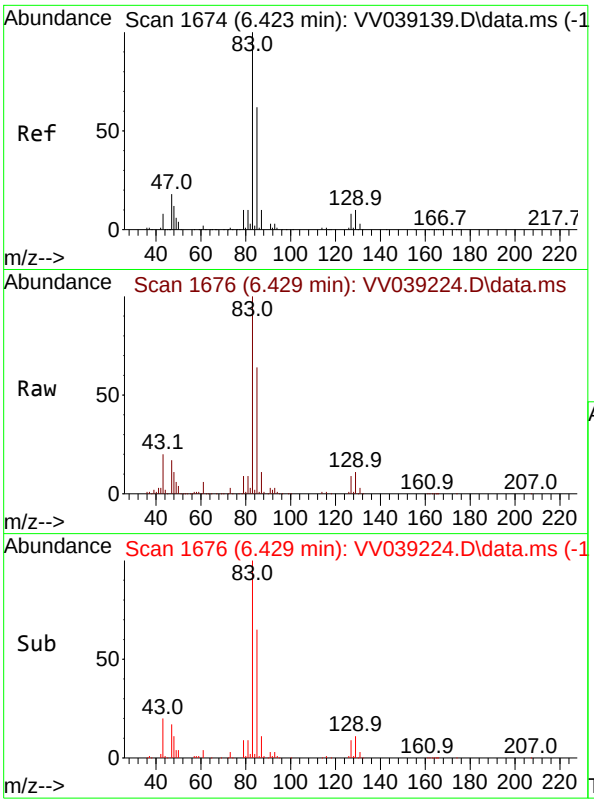




#46
Dibromomethane
Concen: 21.439 ug/l
RT: 6.230 min Scan# 1614
Delta R.T. 0.010 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 93 Resp: 128007

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 83.2 | 65.5 | 98.3 |
| 174 | 96.7 | 69.0 | 103.4 |



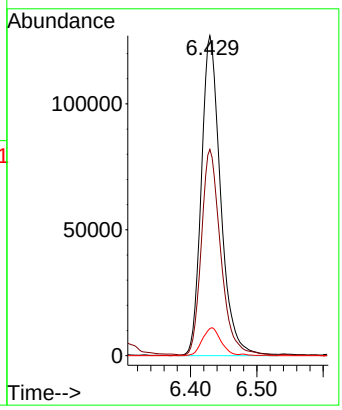


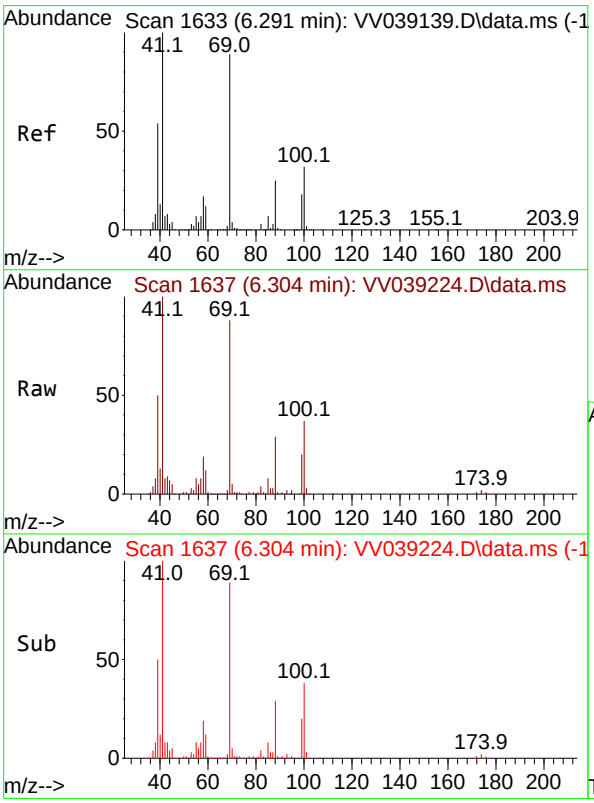

#47
Bromodichloromethane
Concen: 20.791 ug/l
RT: 6.429 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion: 83 Resp: 256635

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.3 | 49.7 | 74.5 |
| 127 | 8.5 | 6.6 | 9.8 |

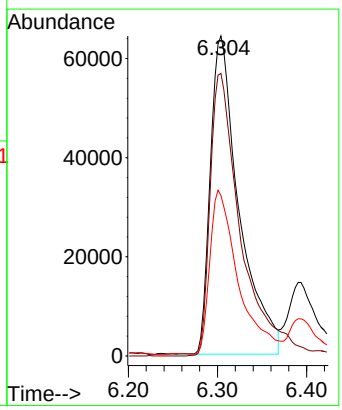


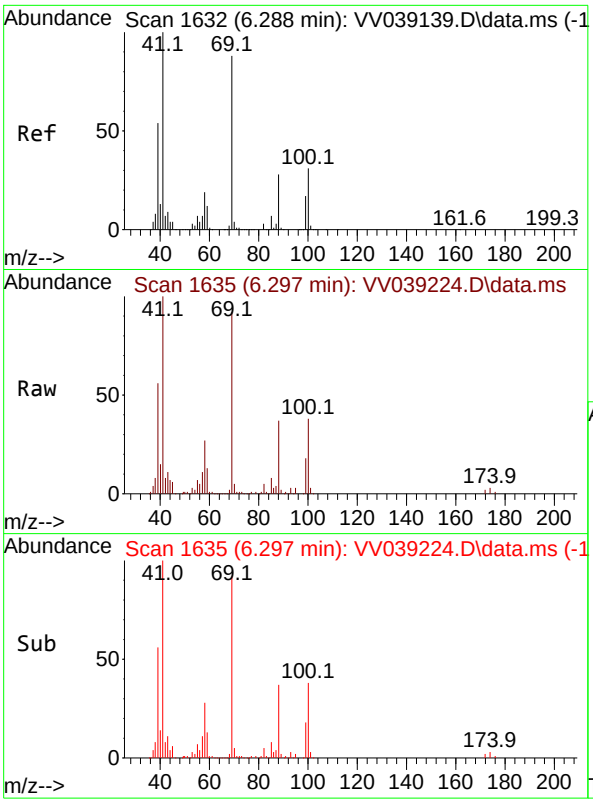




#48
Methyl methacrylate
Concen: 19.866 ug/l
RT: 6.304 min Scan# 1637
Delta R.T. 0.013 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 41 Resp: 143594

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 94.5 | 72.4 | 108.6 |
| 39 | 50.9 | 42.5 | 63.7 |



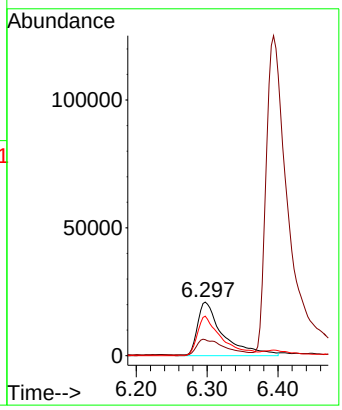


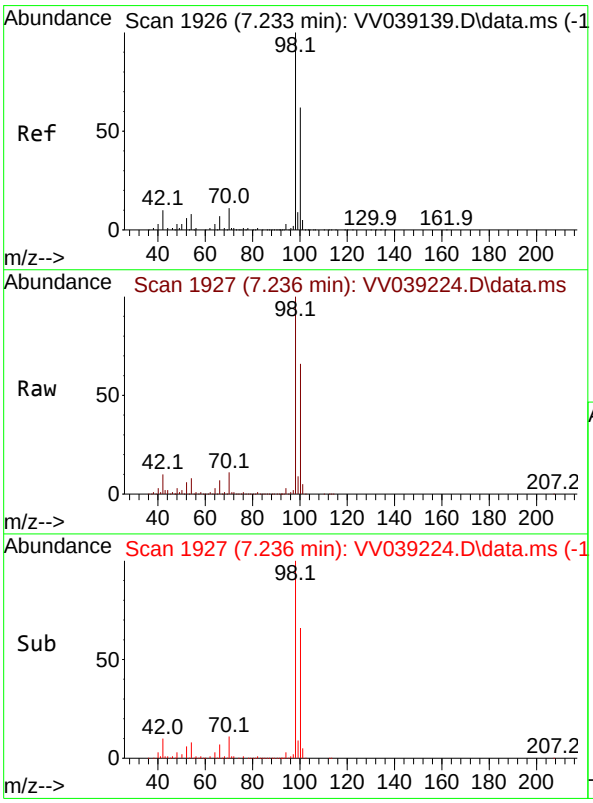

#49
1,4-Dioxane
Concen: 450.027 ug/l
RT: 6.297 min Scan# 1
Delta R.T. 0.010 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion: 88 Resp: 52495

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 32.2 | 25.1 | 37.7 |
| 58 | 69.8 | 53.6 | 80.4 |

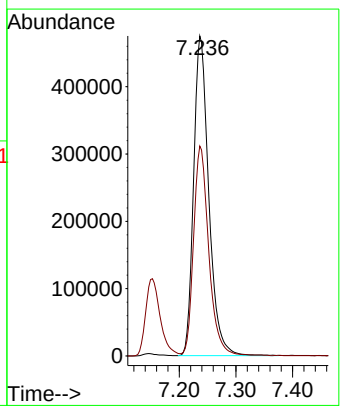


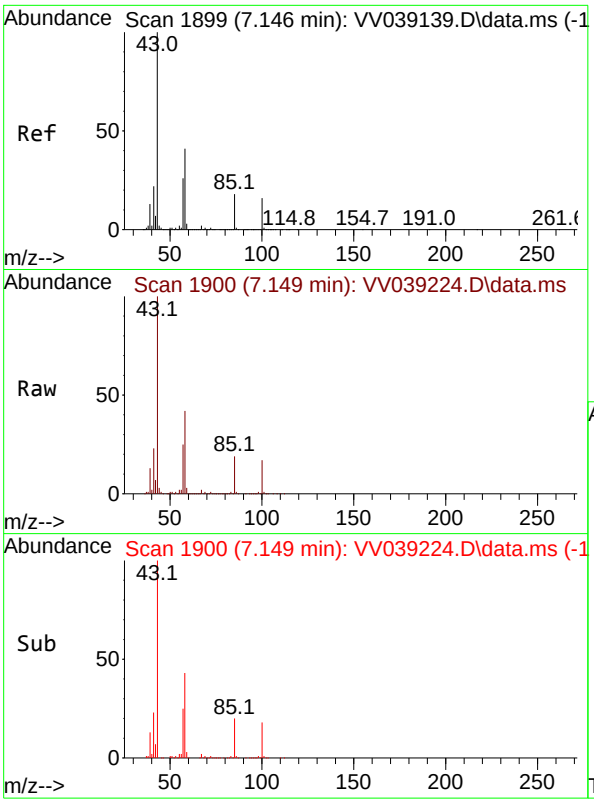




#50
Toluene-d8
Concen: 47.072 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 98 Resp: 881306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.9 | 52.2 | 78.2 |



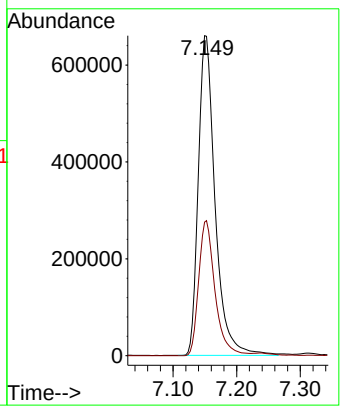


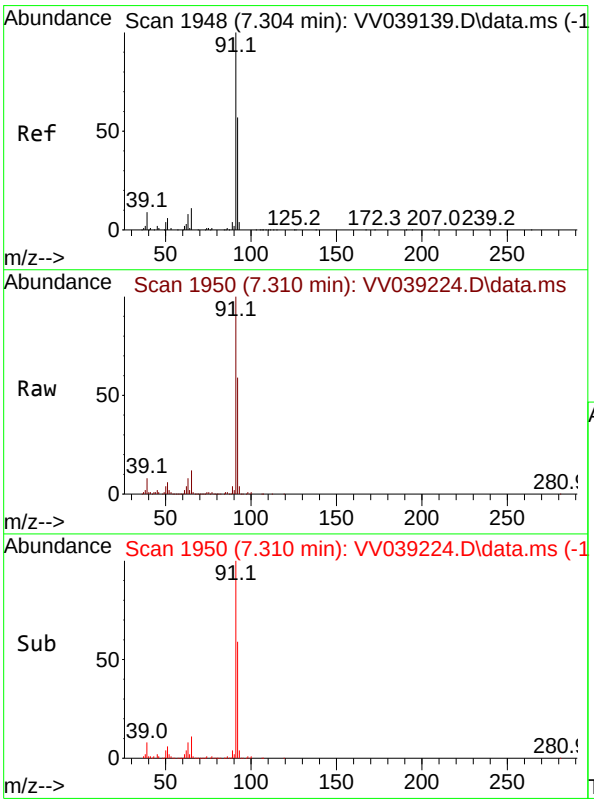

#51
4-Methyl-2-Pentanone
Concen: 115.662 ug/l
RT: 7.149 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion: 43 Resp: 1213345

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 41.1 | 32.3 | 48.5 |

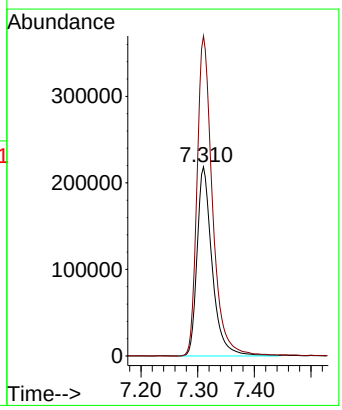


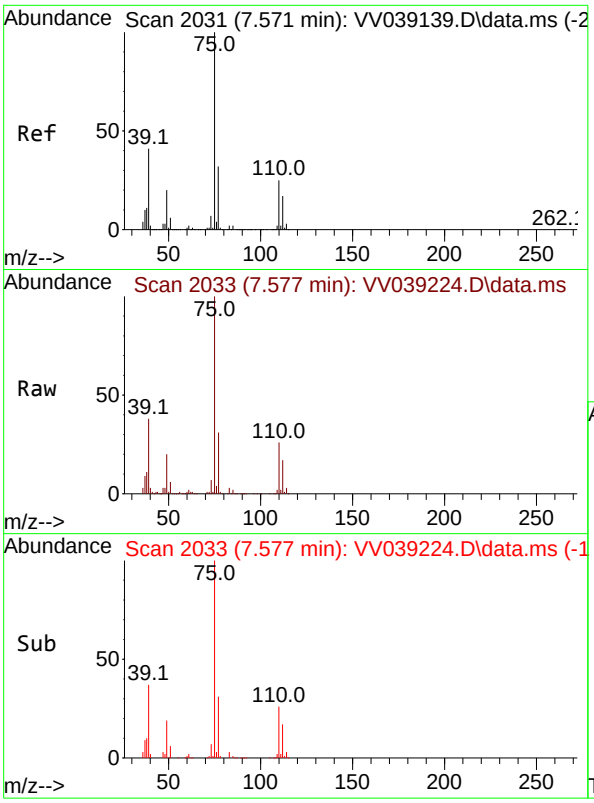




#52
Toluene
Concen: 22.137 ug/l
RT: 7.310 min Scan# 1950
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 92 Resp: 402833

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 172.8 | 139.2 | 208.8 |



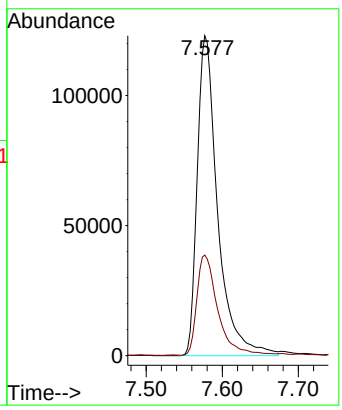


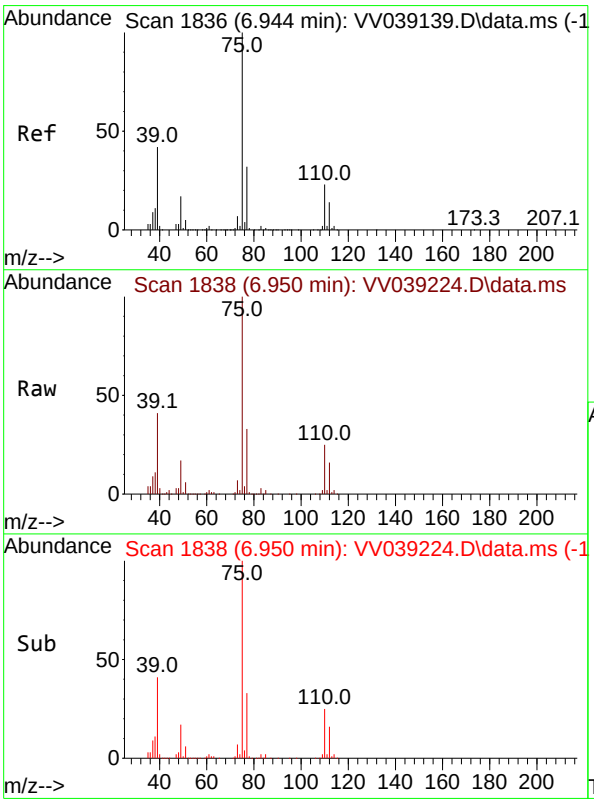

#53
t-1,3-Dichloropropene
Concen: 21.329 ug/l
RT: 7.577 min Scan# 2
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion: 75 Resp: 229437

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.3 | 25.9 | 38.9 |

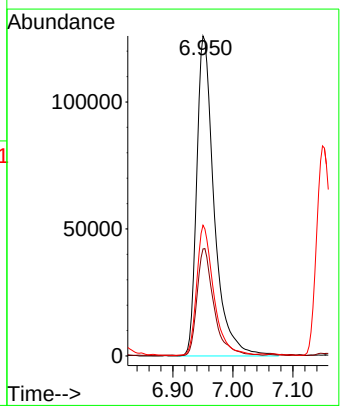


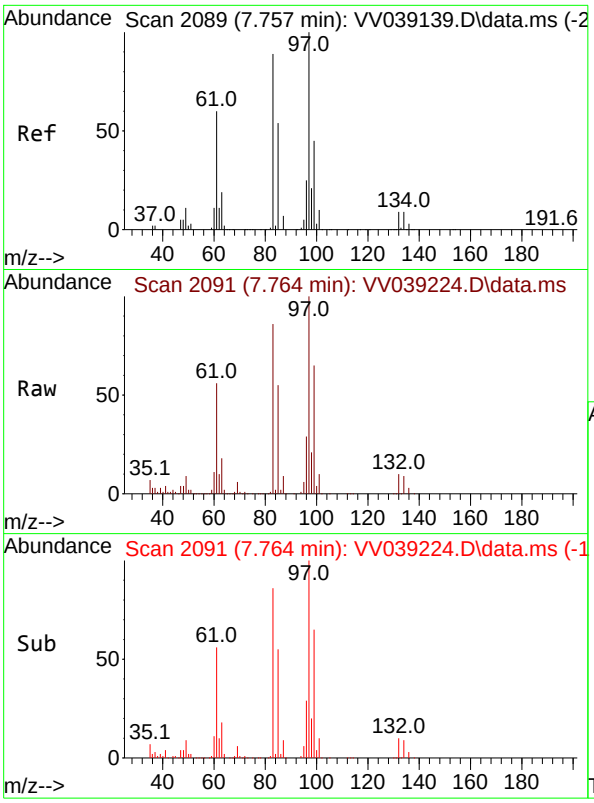




#54
cis-1,3-Dichloropropene
Concen: 21.568 ug/l
RT: 6.950 min Scan# 1838
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 75 Resp: 256128

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 33.4 | 25.5 | 38.3 |
| 39 | 40.6 | 33.8 | 50.6 |



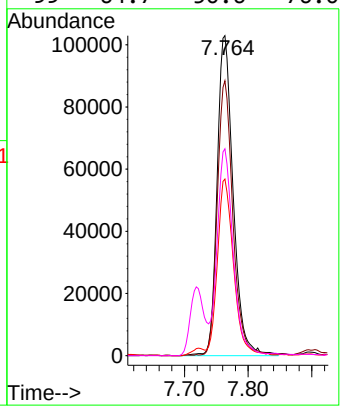


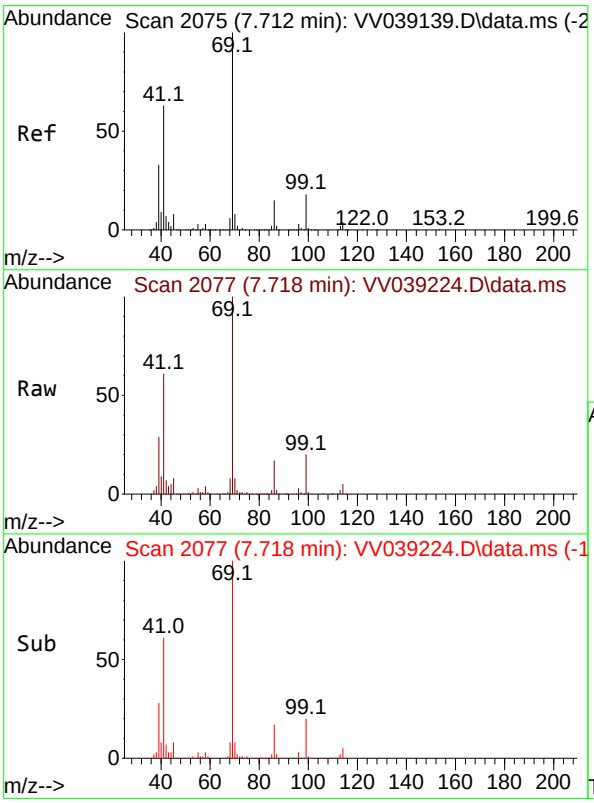

#55
1,1,2-Trichloroethane
Concen: 22.104 ug/l
RT: 7.764 min Scan# 2
Delta R.T. 0.007 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion: 97 Resp: 180352

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 85.9 | 71.1 | 106.7 |
| 85 | 55.2 | 44.6 | 67.0 |
| 99 | 64.7 | 50.6 | 76.0 |

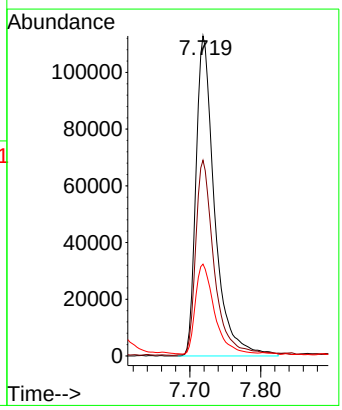


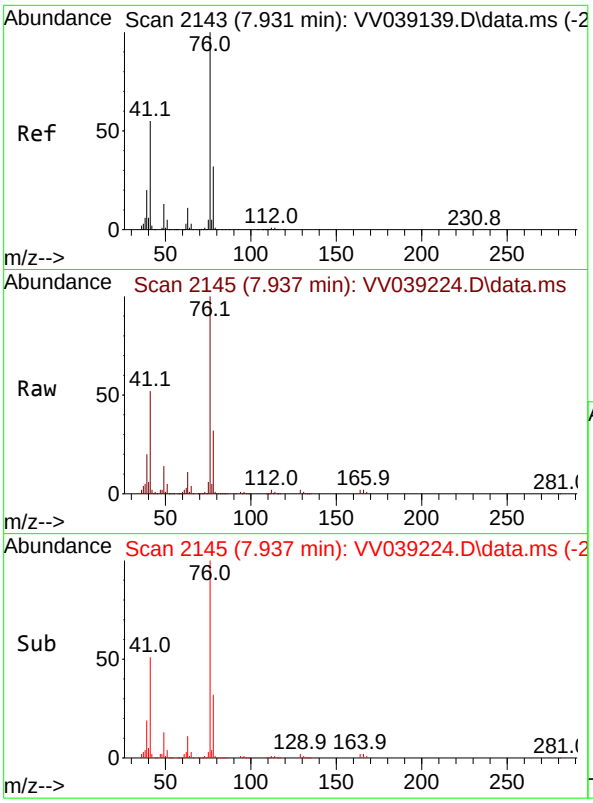




#56
Ethyl methacrylate
Concen: 21.263 ug/l
RT: 7.718 min Scan# 2077
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 69 Resp: 206033

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 60.6 | 50.7 | 76.1 |
| 39 | 28.5 | 26.0 | 39.0 |



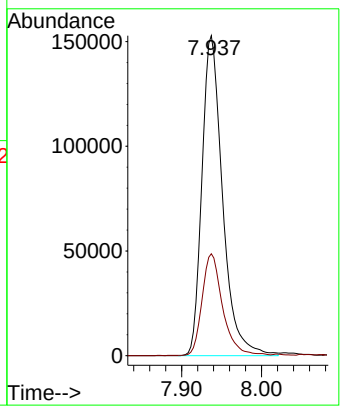


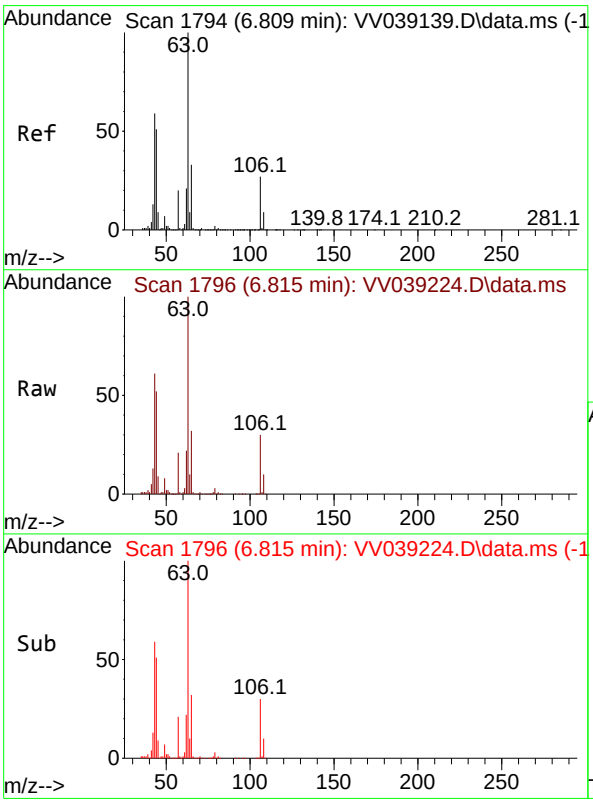

#57
1,3-Dichloropropane
Concen: 21.324 ug/l
RT: 7.937 min Scan# 21
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion: 76 Resp: 274579

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 31.9 | 26.1 | 39.1 |

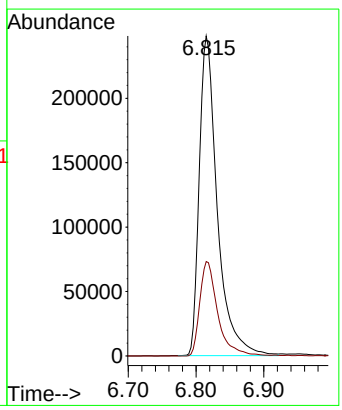


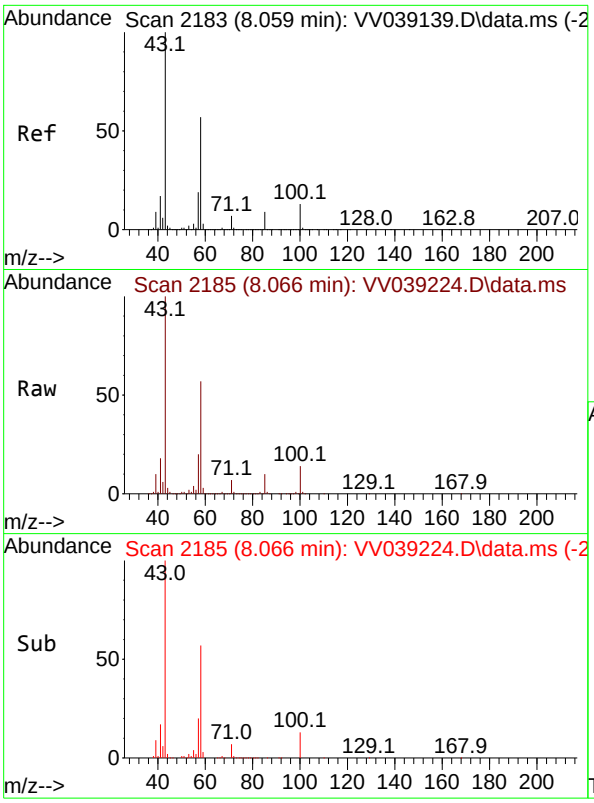




#58
2-Chloroethyl Vinyl ether
Concen: 90.272 ug/l
RT: 6.815 min Scan# 1796
Delta R.T. 0.006 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 63 Resp: 458913

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 29.3 | 22.1 | 33.1 |



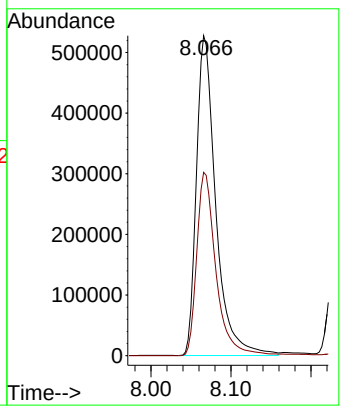


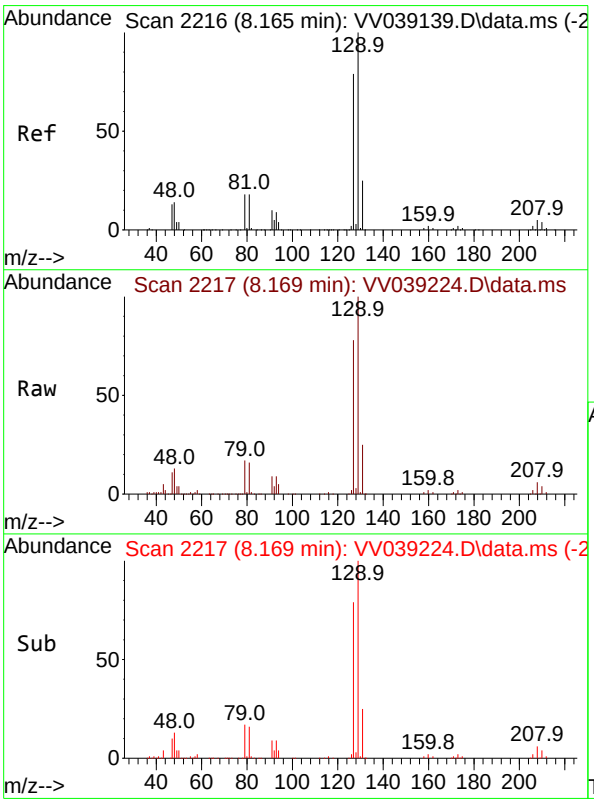

#59
2-Hexanone
Concen: 106.332 ug/l
RT: 8.066 min Scan# 21
Delta R.T. 0.007 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion: 43 Resp: 888978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 57.6 | 28.3 | 85.0 |

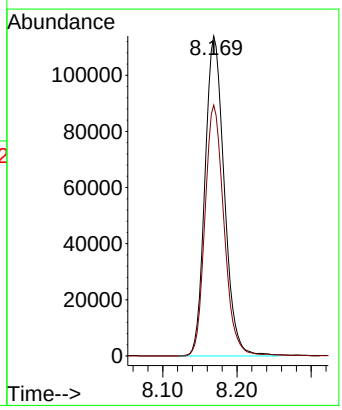


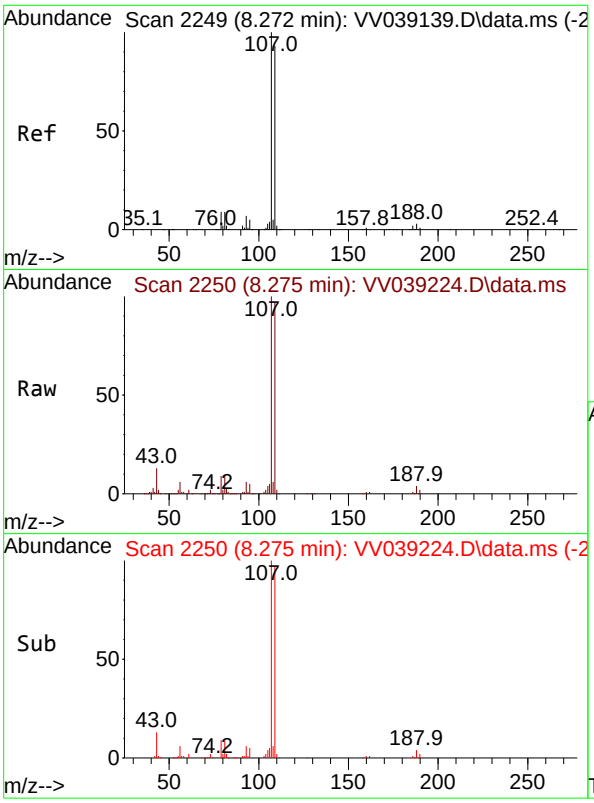




#60
Dibromochloromethane
Concen: 22.022 ug/l
RT: 8.169 min Scan# 2217
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion:129 Resp: 204739

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.4 | 39.3 | 117.9 |



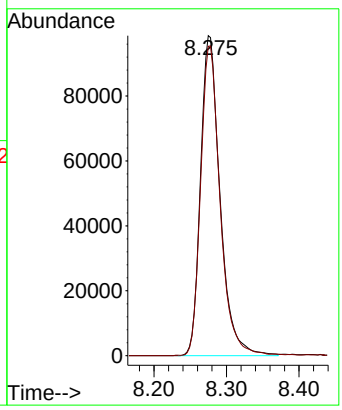


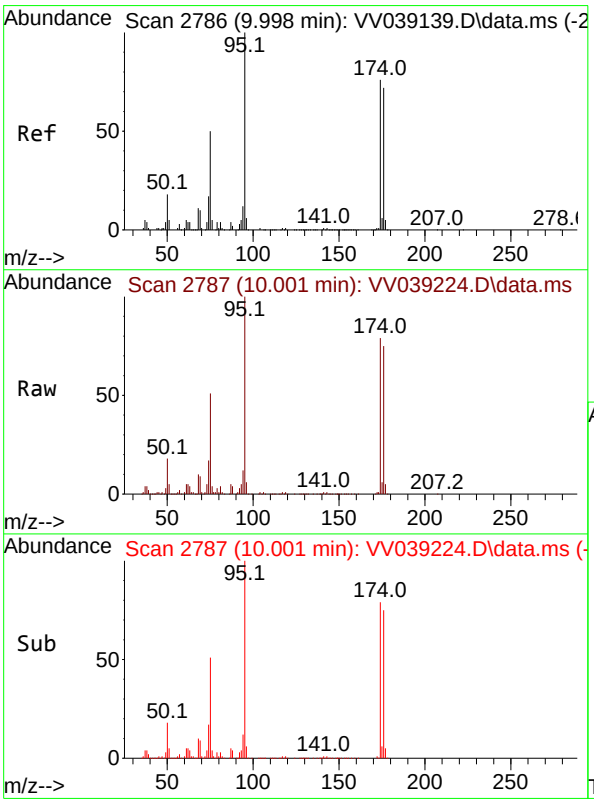

#61
1,2-Dibromoethane
Concen: 22.089 ug/l
RT: 8.275 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion:107 Resp: 184314

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 96.5 | 74.6 | 112.0 |

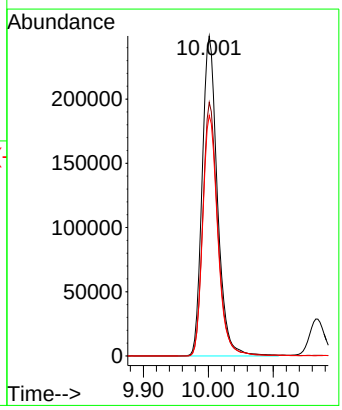


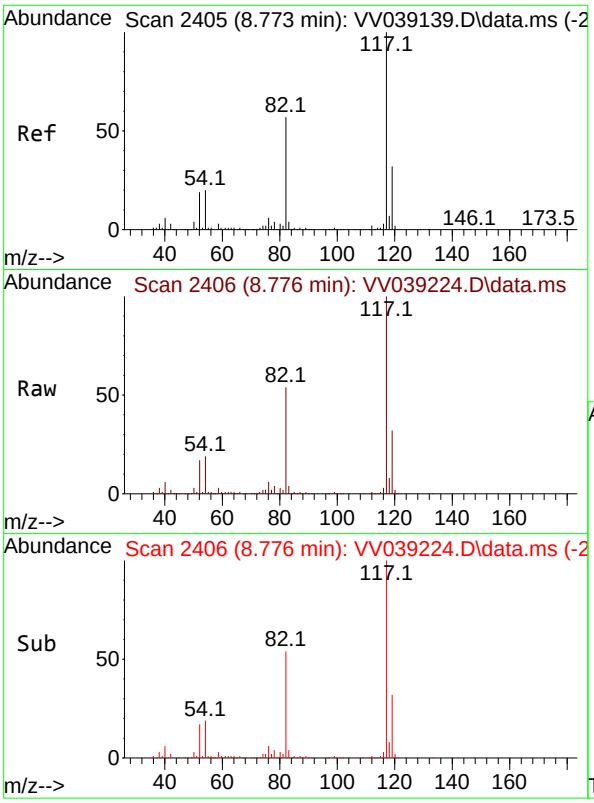




#62
4-Bromofluorobenzene
Concen: 52.700 ug/l
RT: 10.001 min Scan# 2787
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 95 Resp: 406193

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 77.9 | 0.0 | 150.4 |
| 176 | 74.4 | 0.0 | 144.2 |



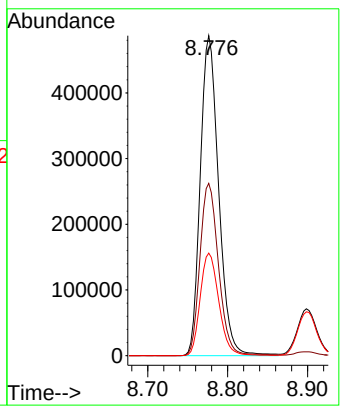


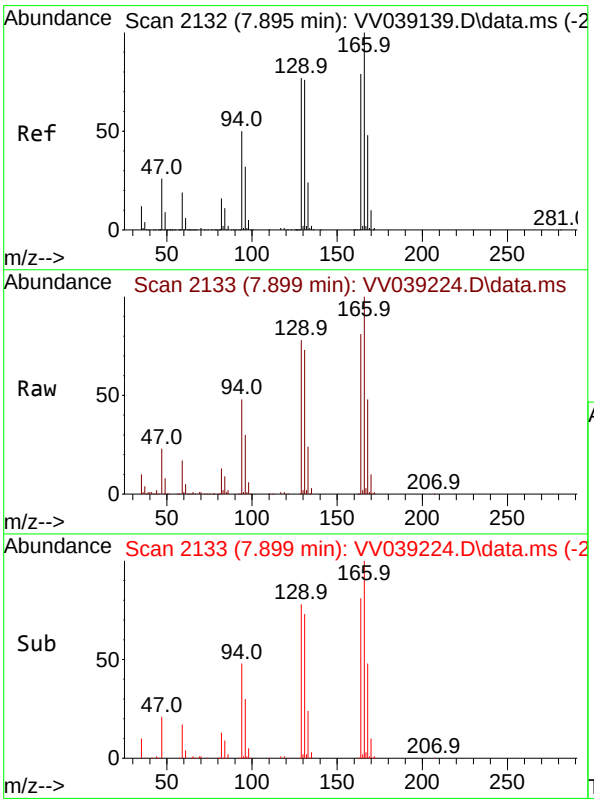

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion:117 Resp: 778611

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 53.8 | 45.4 | 68.2 |
| 119 | 32.1 | 25.6 | 38.4 |

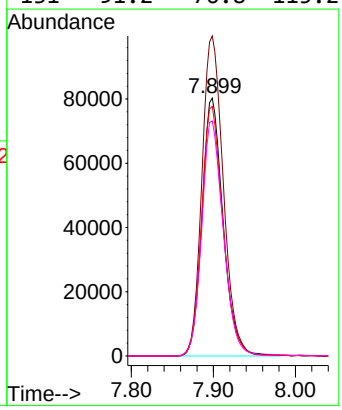


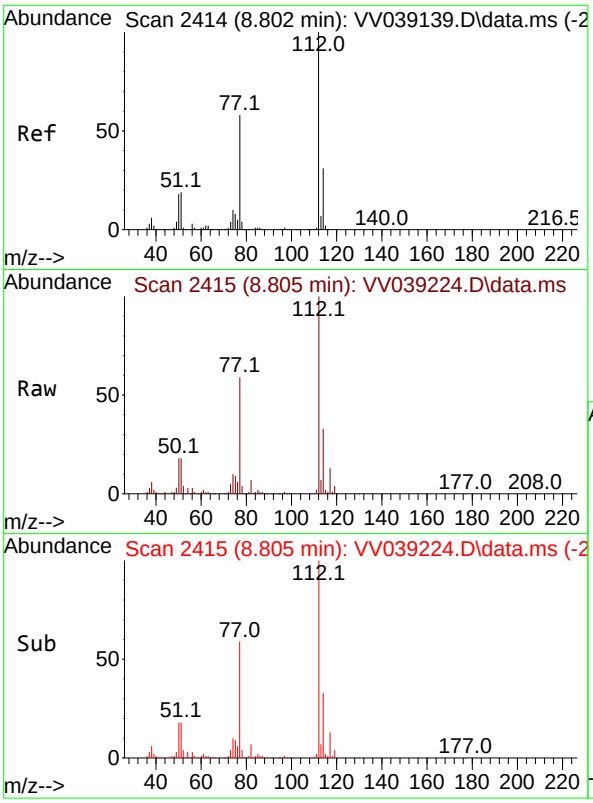




#64
Tetrachloroethene
Concen: 21.989 ug/l
RT: 7.899 min Scan# 2133
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion:164 Resp: 143400

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 124.1 | 101.6 | 152.4 |
| 129 | 96.9 | 78.5 | 117.7 |
| 131 | 91.2 | 76.8 | 115.2 |



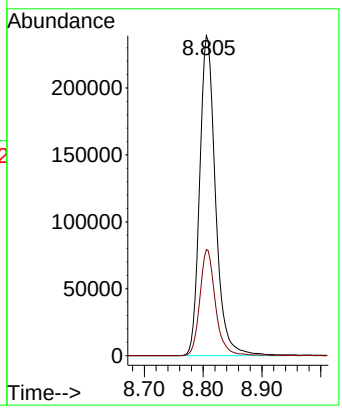


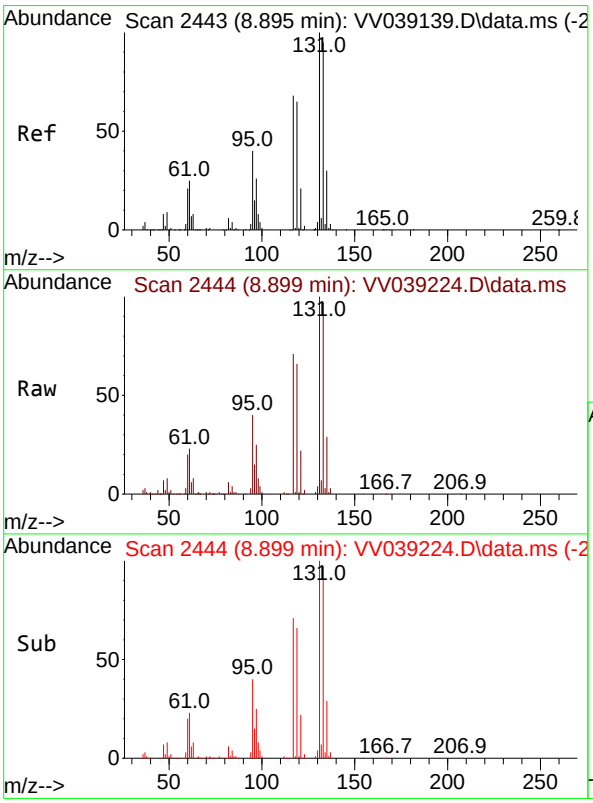

#65
Chlorobenzene
Concen: 20.614 ug/l
RT: 8.805 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion:112 Resp: 447060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 33.2 | 24.6 | 37.0 |

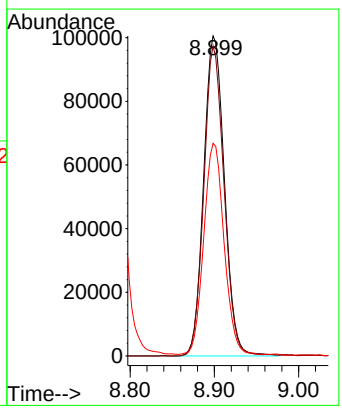


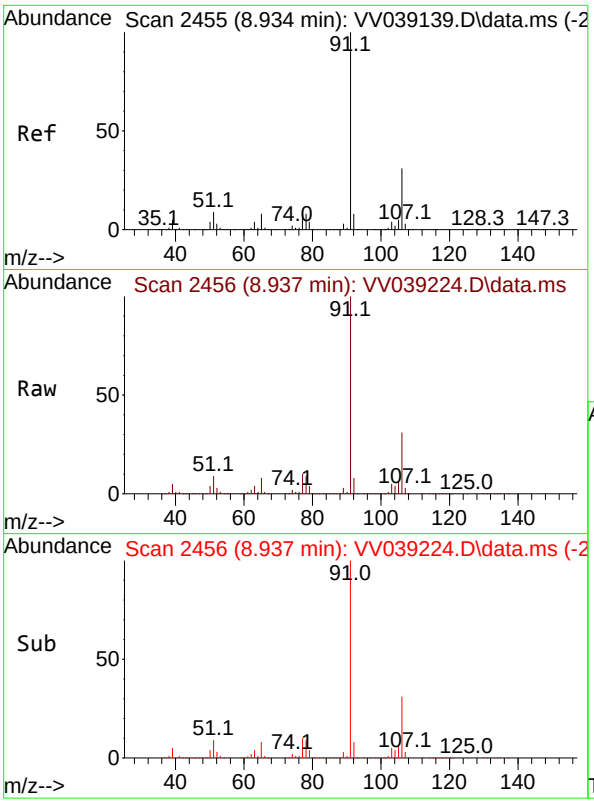




#66
1,1,1,2-Tetrachloroethane
Concen: 21.934 ug/l
RT: 8.899 min Scan# 2444
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion:131 Resp: 171881

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.3 | 47.3 | 141.8 |
| 119 | 65.1 | 33.3 | 99.8 |



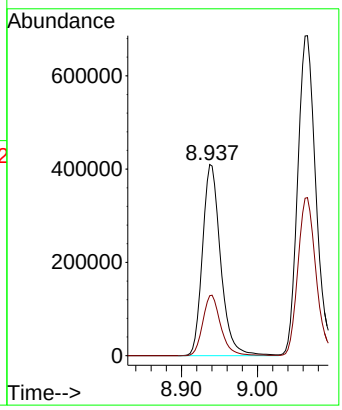


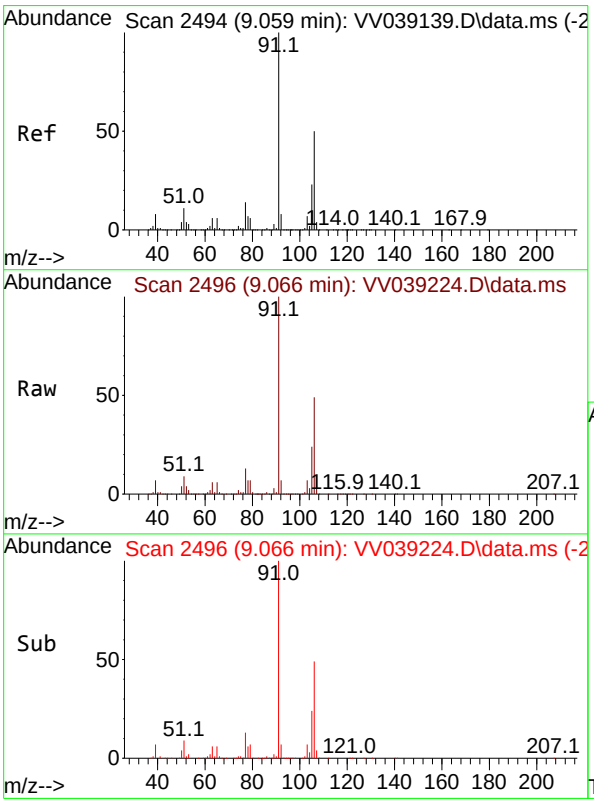

#67
Ethyl Benzene
Concen: 20.710 ug/l
RT: 8.937 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion: 91 Resp: 679904

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.4 | 24.6 | 37.0 |

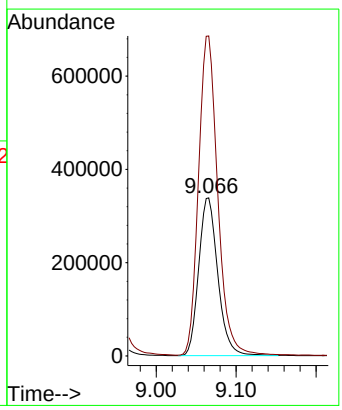


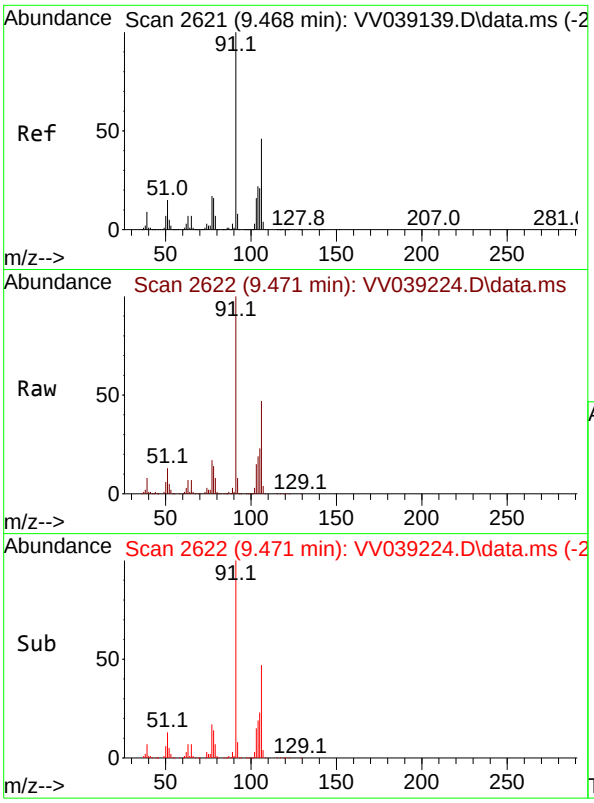




#68
m/p-Xylenes
Concen: 44.453 ug/l
RT: 9.066 min Scan# 2496
Delta R.T. 0.007 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion:106 Resp: 563248

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 203.7 | 162.5 | 243.7 |



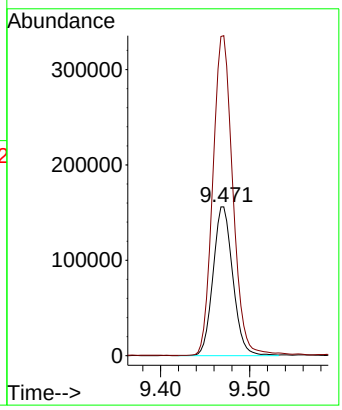


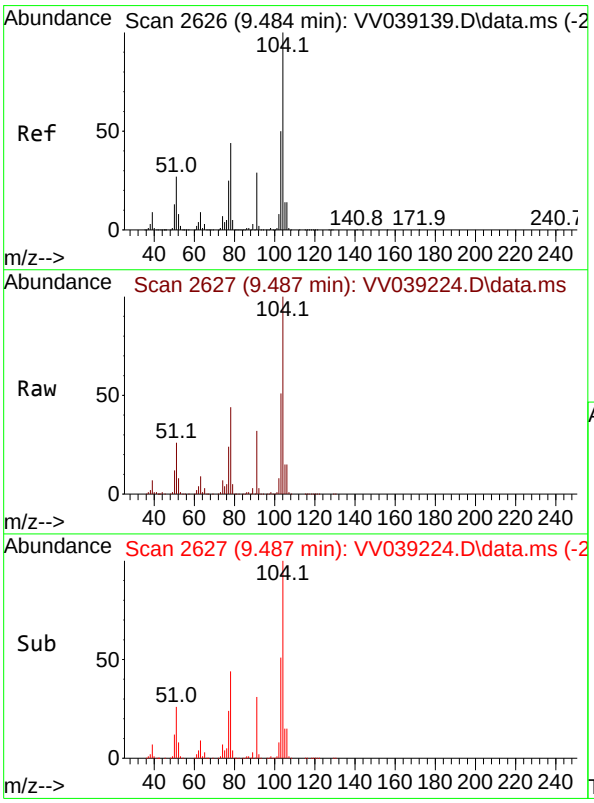

#69
o-Xylene
Concen: 21.475 ug/l
RT: 9.471 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion:106 Resp: 240935

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 217.1 | 109.1 | 327.3 |

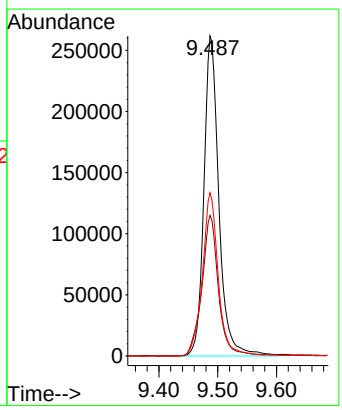


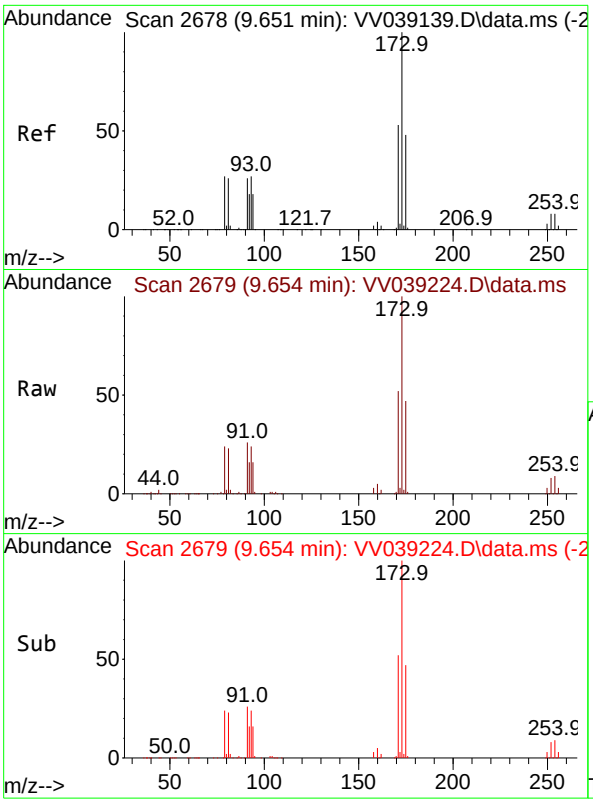




#70
Styrene
Concen: 20.357 ug/l
RT: 9.487 min Scan# 2627
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion:104 Resp: 463036

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 48.5 | 39.8 | 59.6 |
| 103 | 54.0 | 43.4 | 65.2 |



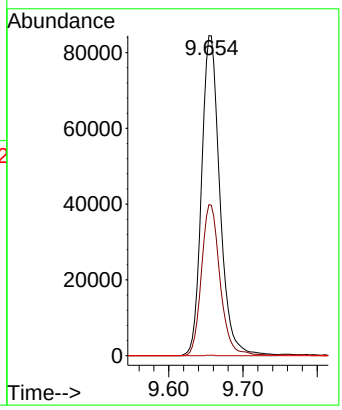


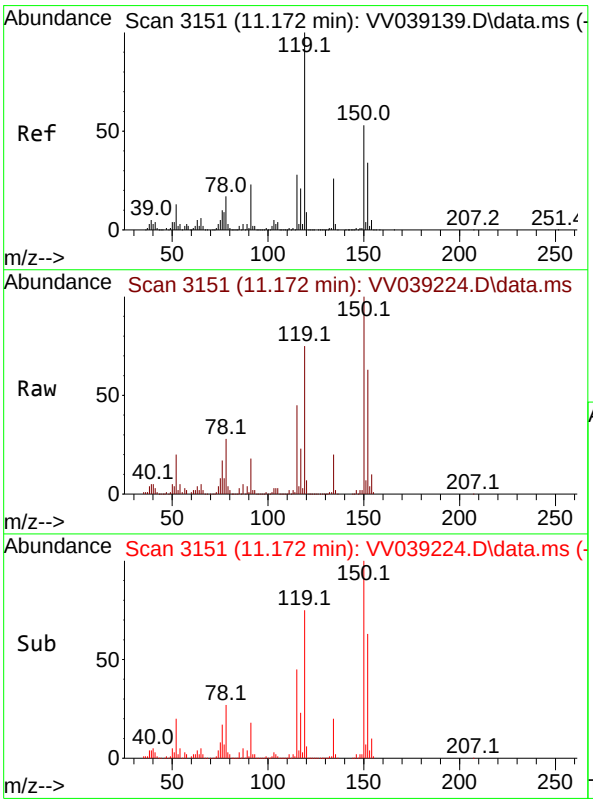

#71
Bromoform
Concen: 23.619 ug/l
RT: 9.654 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion:173 Resp: 144577

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.0 | 23.9 | 71.7 |
| 254 | 0.1 | 0.1 | 0.1# |

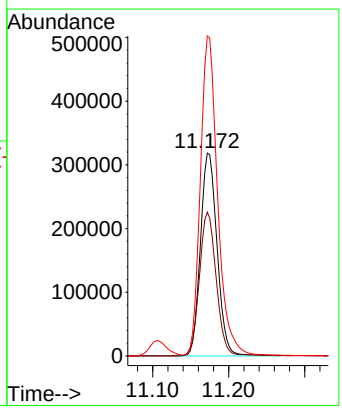


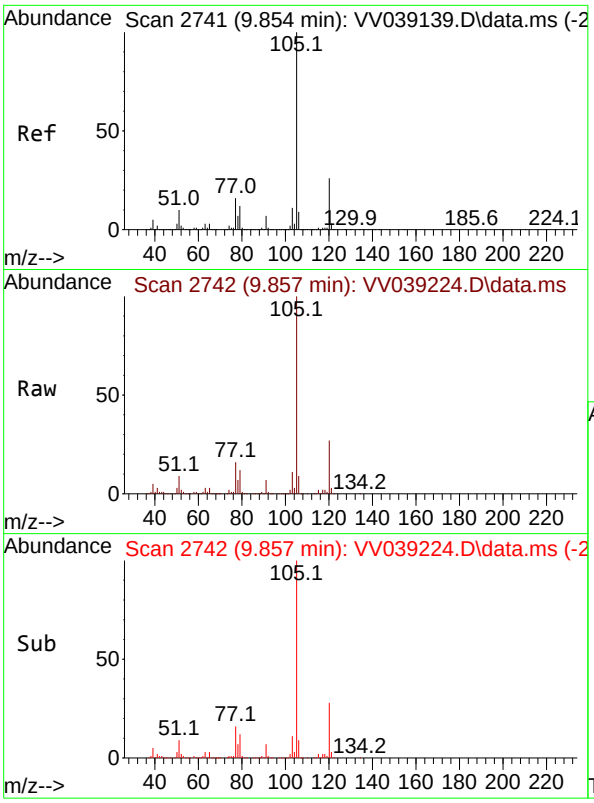




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. -0.000 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion:152 Resp: 484149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 70.6 | 44.8 | 134.4 |
| 150 | 163.6 | 0.0 | 353.8 |



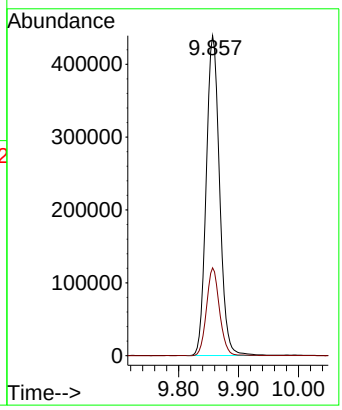


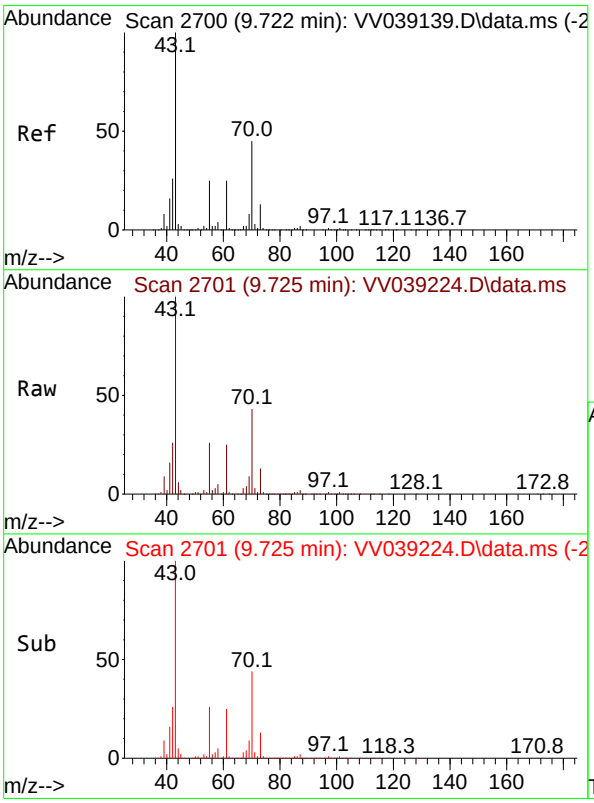

#73
Isopropylbenzene
Concen: 19.415 ug/l
RT: 9.857 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion:105 Resp: 681756

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.8 | 13.1 | 39.1 |

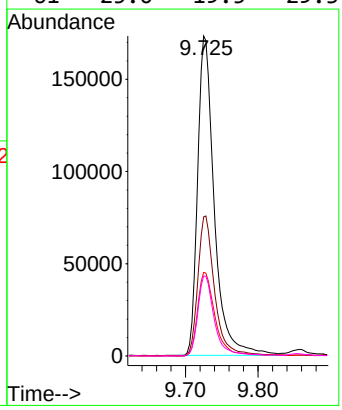


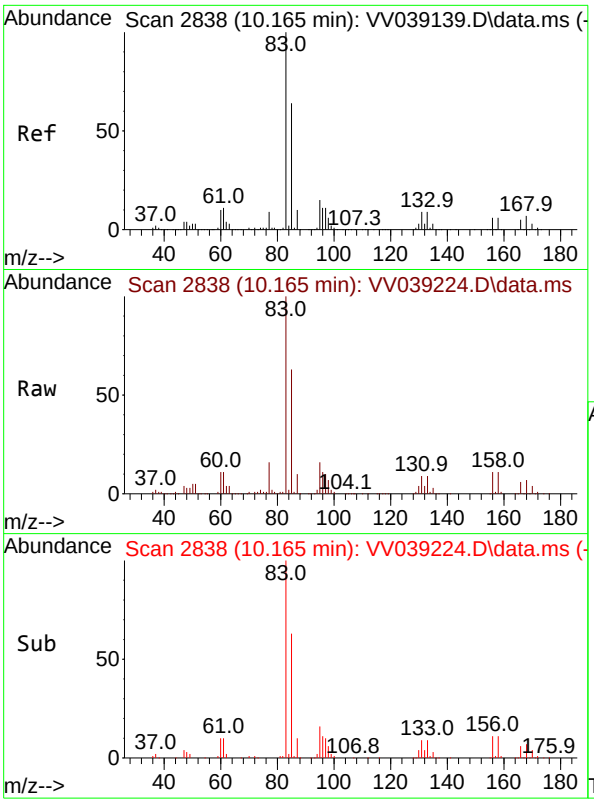




#74
N-amyl acetate
Concen: 19.780 ug/l
RT: 9.725 min Scan# 2701
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 43 Resp: 277055

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 44.3 | 35.4 | 53.0 |
| 55 | 27.3 | 20.6 | 30.8 |
| 61 | 25.0 | 19.5 | 29.3 |



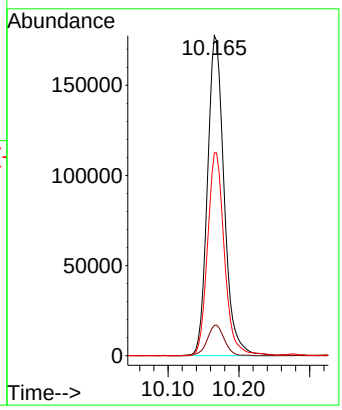


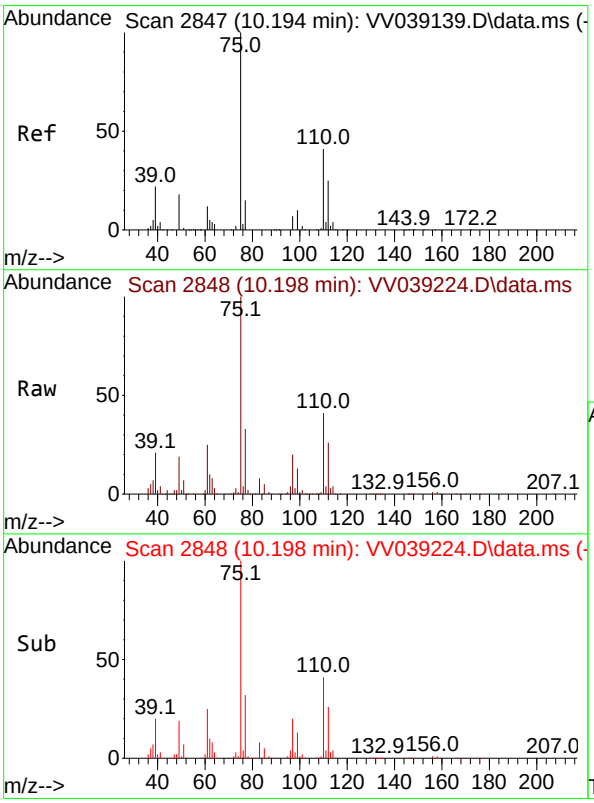

#75
1,1,2,2-Tetrachloroethane
Concen: 18.868 ug/l
RT: 10.165 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion: 83 Resp: 290305

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.8 | 4.5 | 13.7 |
| 85 | 64.0 | 31.9 | 95.9 |

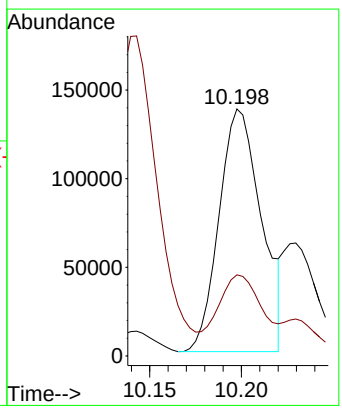


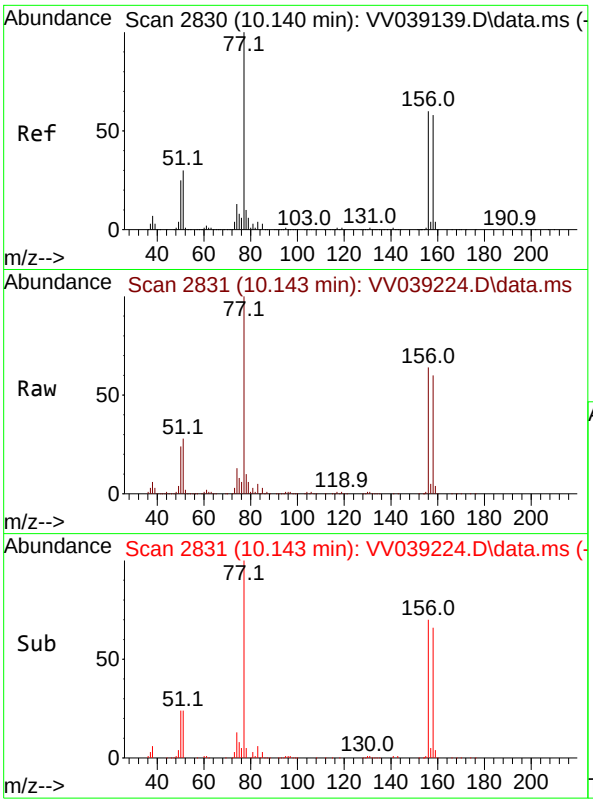




#76
1,2,3-Trichloropropane
Concen: 19.944 ug/l
RT: 10.198 min Scan# 2848
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 75 Resp: 219845

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 20.5 | 11.3 | 33.8 |



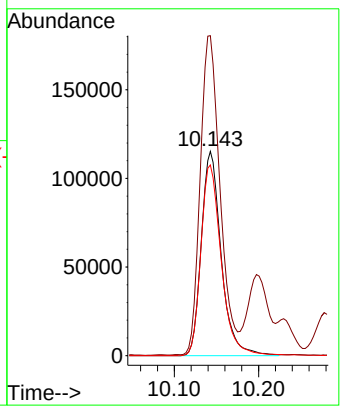


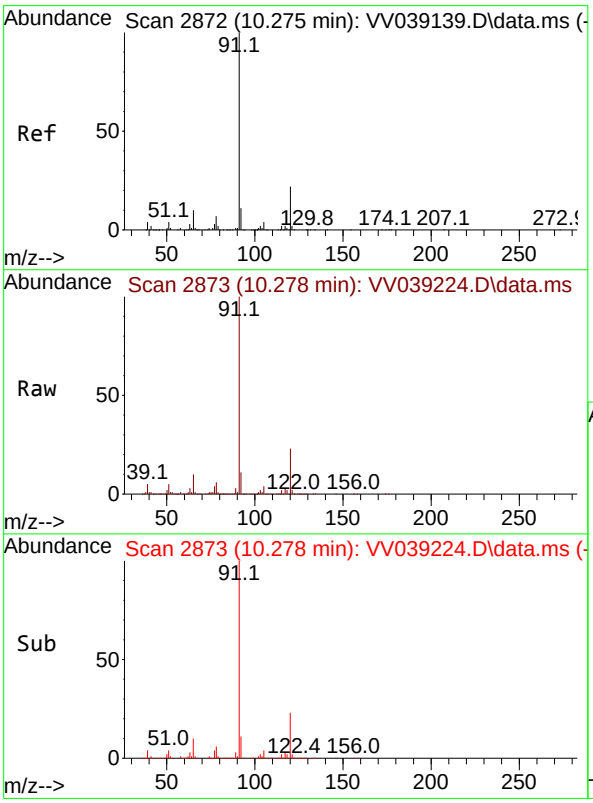

#77
Bromobenzene
Concen: 20.780 ug/l
RT: 10.143 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion:156 Resp: 189322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 155.3 | 83.4 | 250.1 |
| 158 | 95.8 | 48.8 | 146.4 |

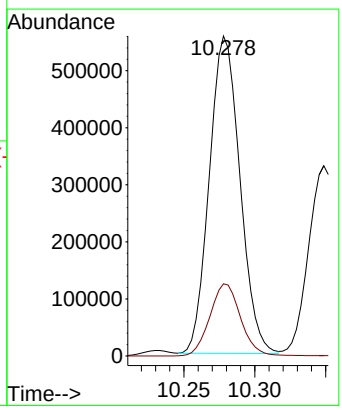


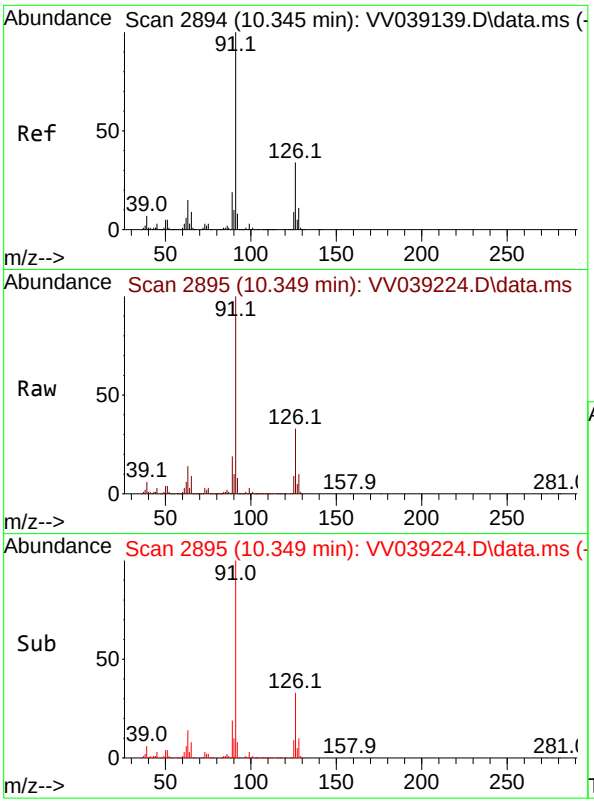




#78
n-propylbenzene
Concen: 19.562 ug/l
RT: 10.278 min Scan# 2873
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 91 Resp: 836516

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.8 | 11.1 | 33.3 |



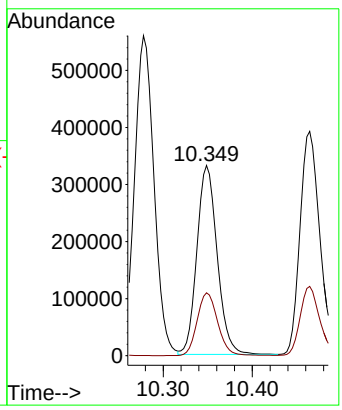


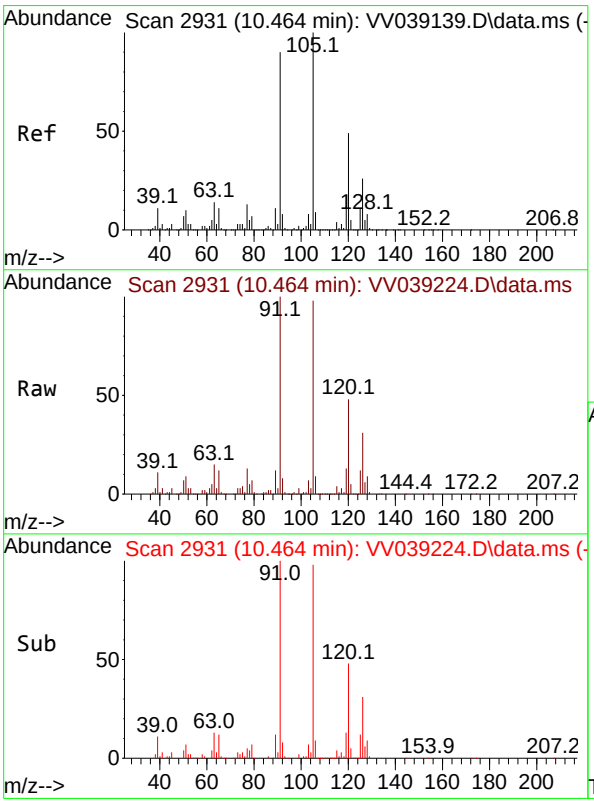

#79
2-Chlorotoluene
Concen: 20.436 ug/l
RT: 10.349 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion: 91 Resp: 522912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.9 | 16.7 | 50.0 |

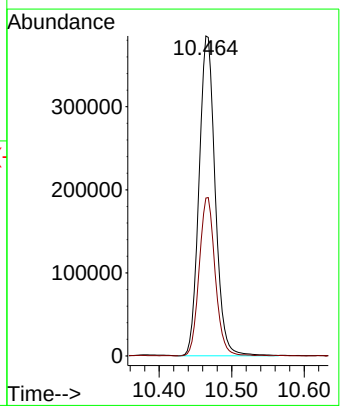


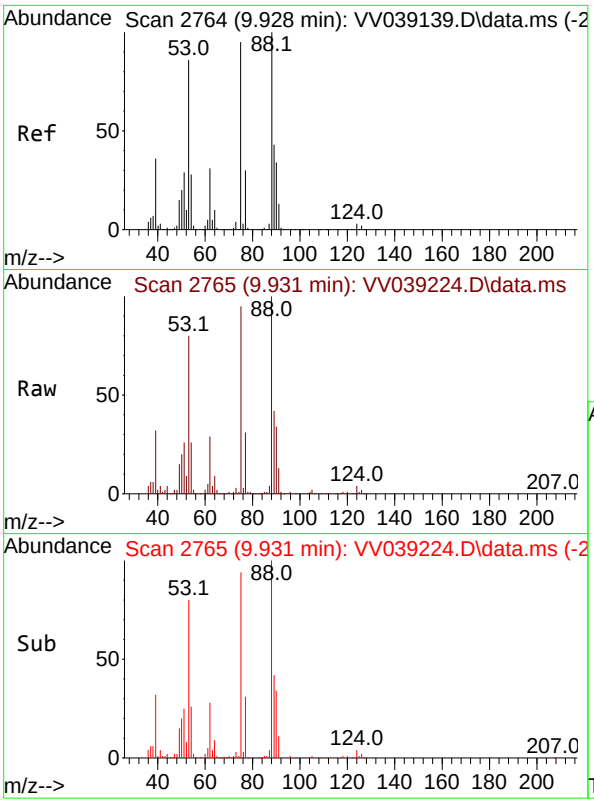




#80
1,3,5-Trimethylbenzene
Concen: 20.401 ug/l
RT: 10.464 min Scan# 2931
Delta R.T. -0.000 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion:105 Resp: 595449

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.0 | 24.3 | 72.8 |



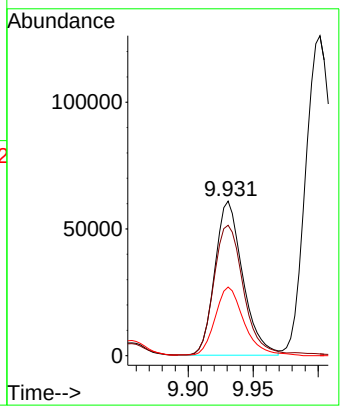


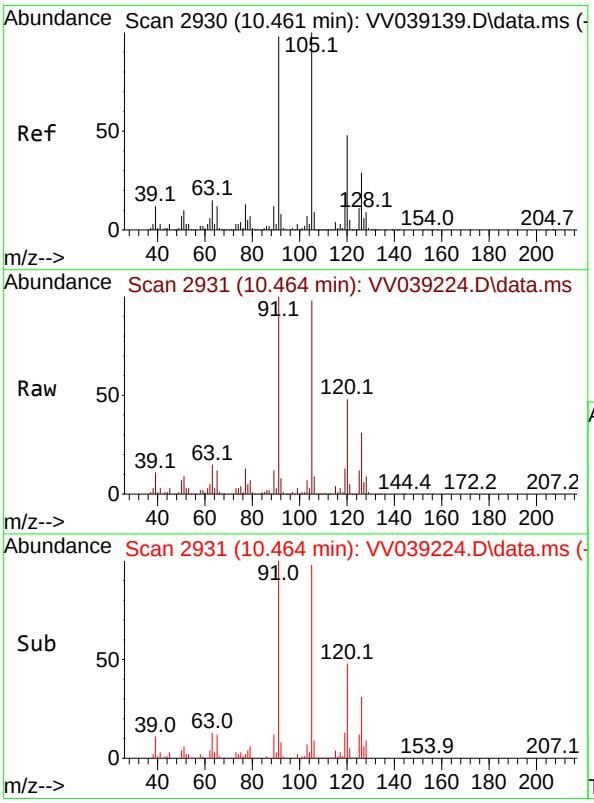

#81
trans-1,4-Dichloro-2-butene
Concen: 19.795 ug/l
RT: 9.931 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion: 75 Resp: 90895

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 88.2 | 72.5 | 108.7 |
| 89 | 46.5 | 37.2 | 55.8 |

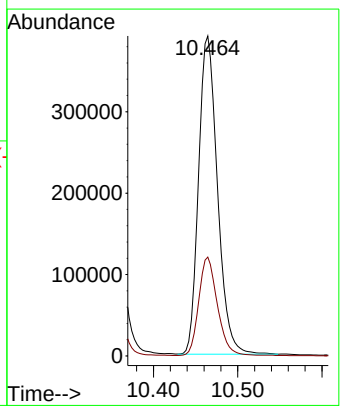


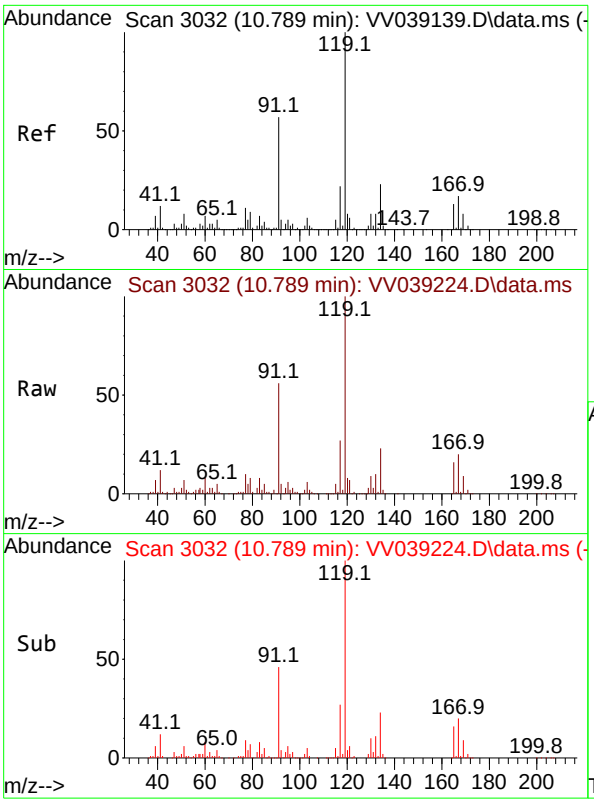




#82
4-Chlorotoluene
Concen: 20.558 ug/l
RT: 10.464 min Scan# 2931
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 91 Resp: 609979

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 30.4 | 14.5 | 43.6 |



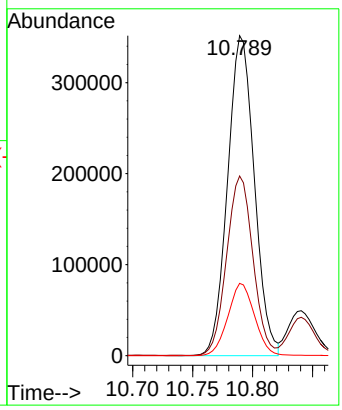


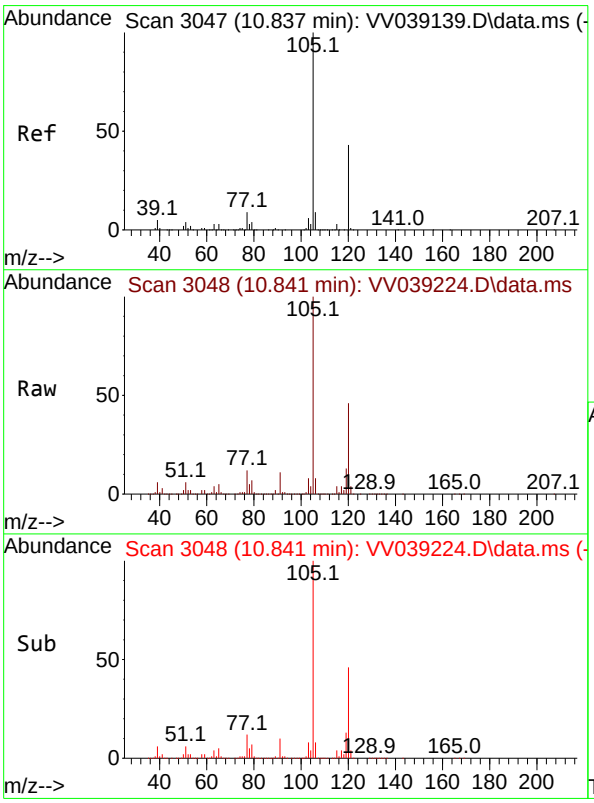

#83
tert-Butylbenzene
Concen: 18.788 ug/l
RT: 10.789 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion:119 Resp: 546815

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 55.0 | 28.5 | 85.6 |
| 134 | 22.7 | 11.5 | 34.4 |

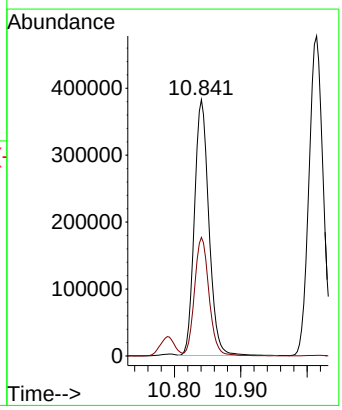


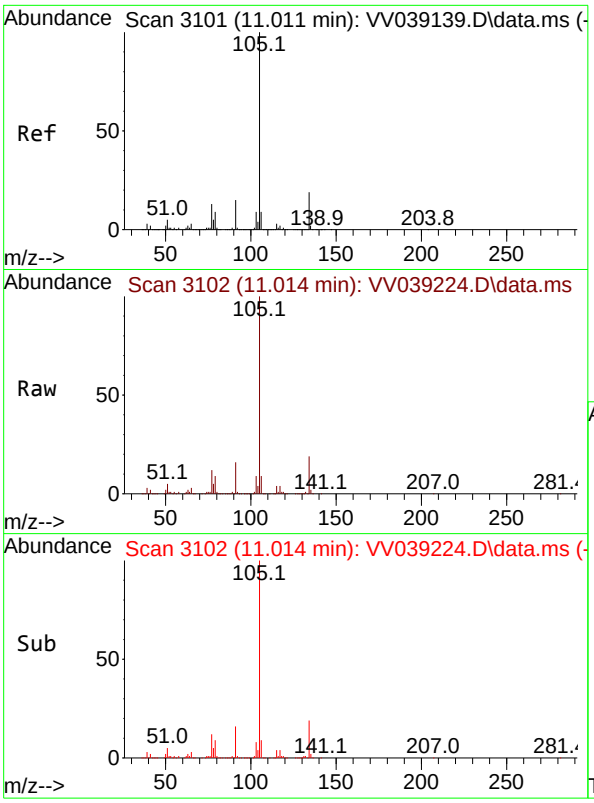




#84
1,2,4-Trimethylbenzene
Concen: 20.450 ug/l
RT: 10.841 min Scan# 3048
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion:105 Resp: 579472

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.8 | 22.4 | 67.2 |



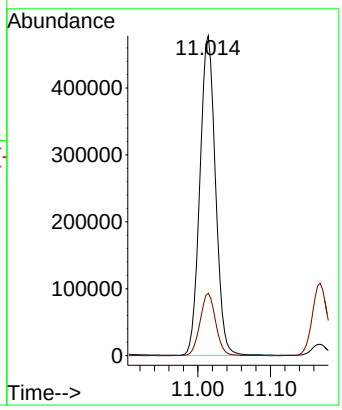


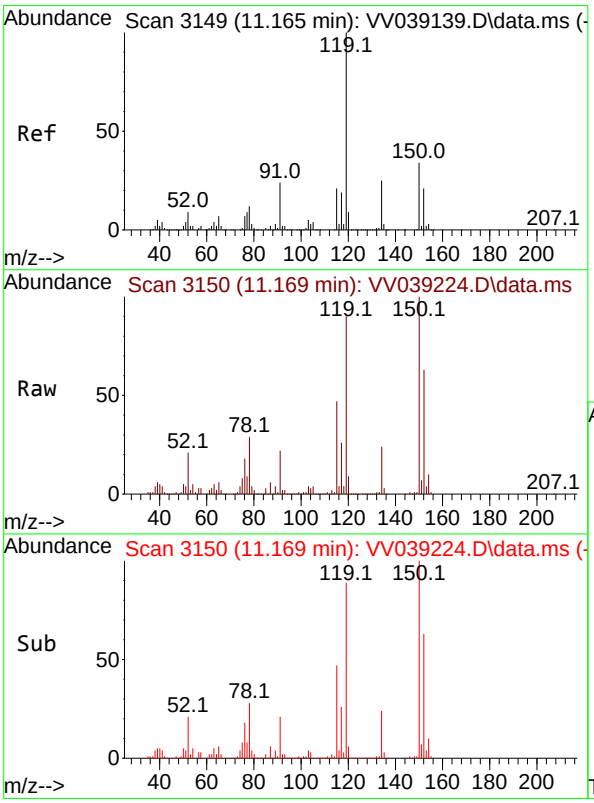

#85
sec-Butylbenzene
Concen: 18.482 ug/l
RT: 11.014 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion:105 Resp: 713481

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.7 | 9.6 | 28.8 |

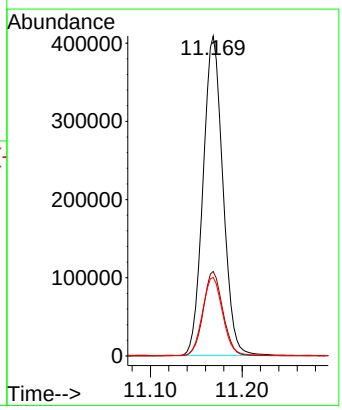


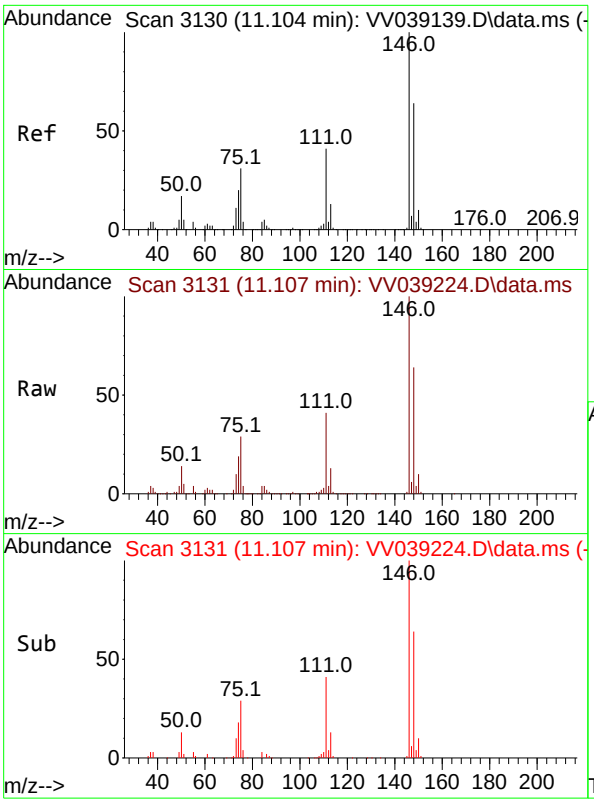




#86
p-Isopropyltoluene
Concen: 19.064 ug/l
RT: 11.169 min Scan# 3150
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion:119 Resp: 612533

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.4 | 12.7 | 38.0 |
| 91 | 24.9 | 12.0 | 36.1 |



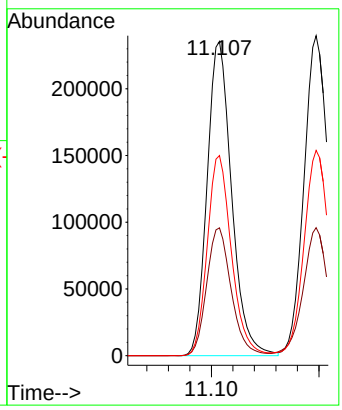


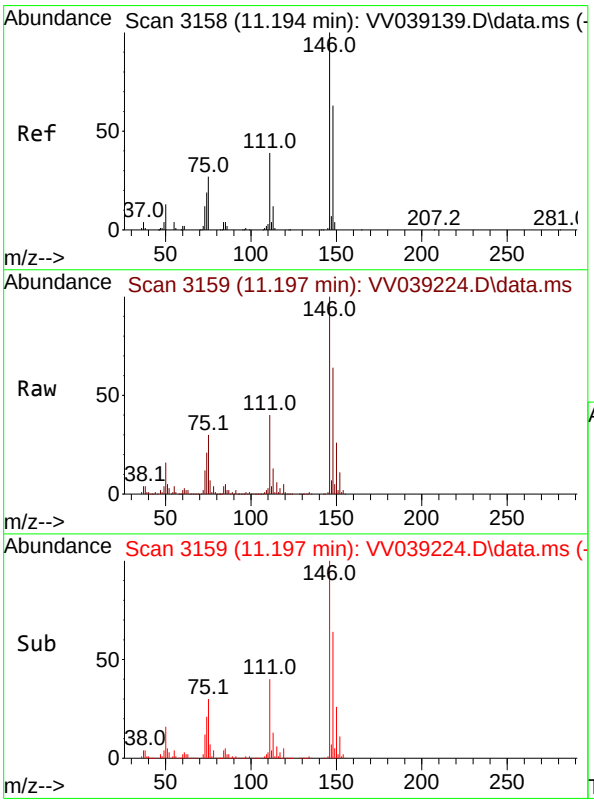

#87
1,3-Dichlorobenzene
Concen: 20.236 ug/l
RT: 11.107 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion:146 Resp: 373130

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.7 | 20.9 | 62.8 |
| 148 | 62.8 | 31.8 | 95.3 |

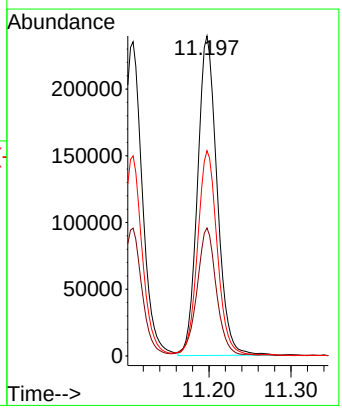


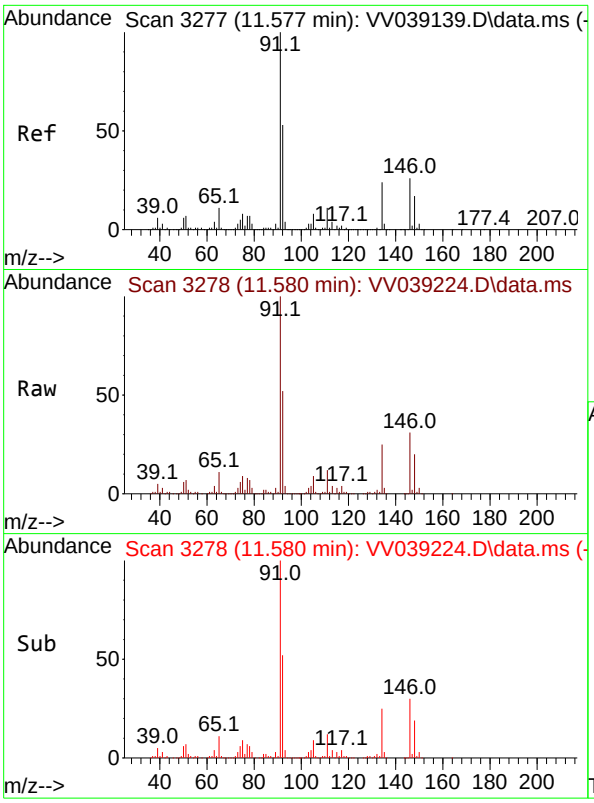




#88
1,4-Dichlorobenzene
Concen: 19.565 ug/l
RT: 11.197 min Scan# 3159
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion:146 Resp: 395788

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.6 | 20.3 | 60.8 |
| 148 | 65.1 | 31.4 | 94.2 |



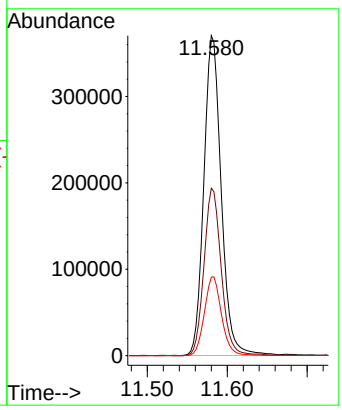


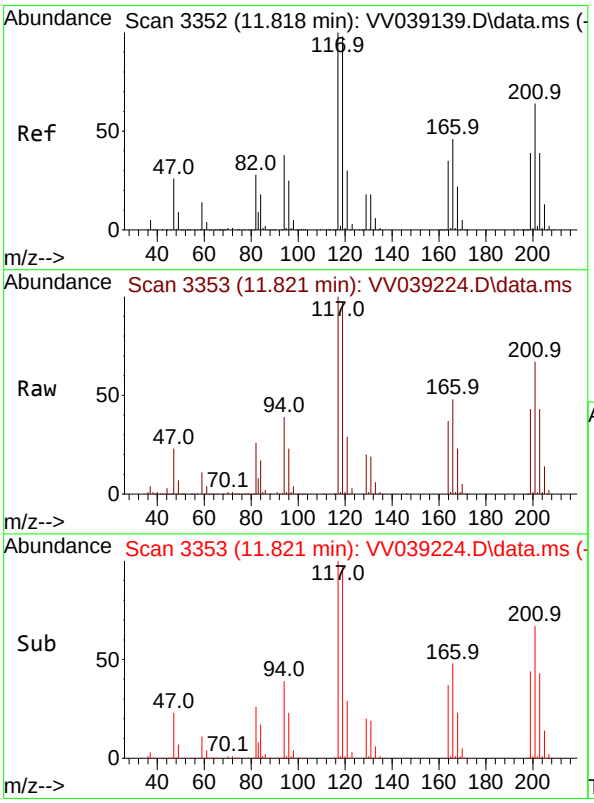

#89
n-Butylbenzene
Concen: 18.282 ug/l
RT: 11.580 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion: 91 Resp: 560984

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.2 | 26.6 | 79.8 |
| 134 | 24.4 | 12.1 | 36.3 |

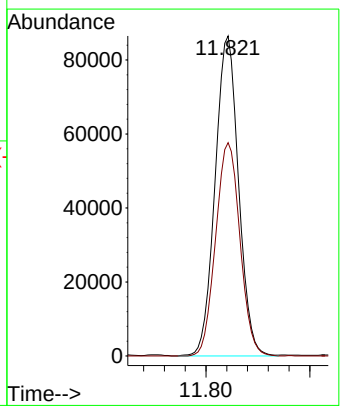


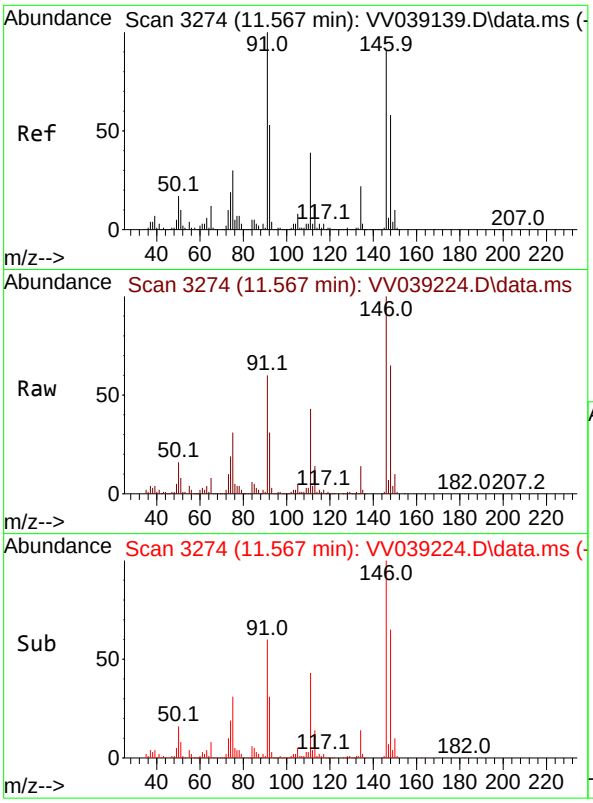




#90
Hexachloroethane
Concen: 17.141 ug/l
RT: 11.821 min Scan# 3353
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion:117 Resp: 135620

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 69.0 | 32.3 | 96.8 |



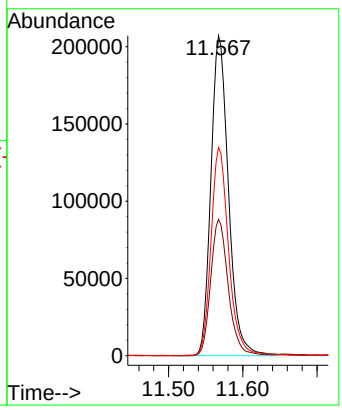


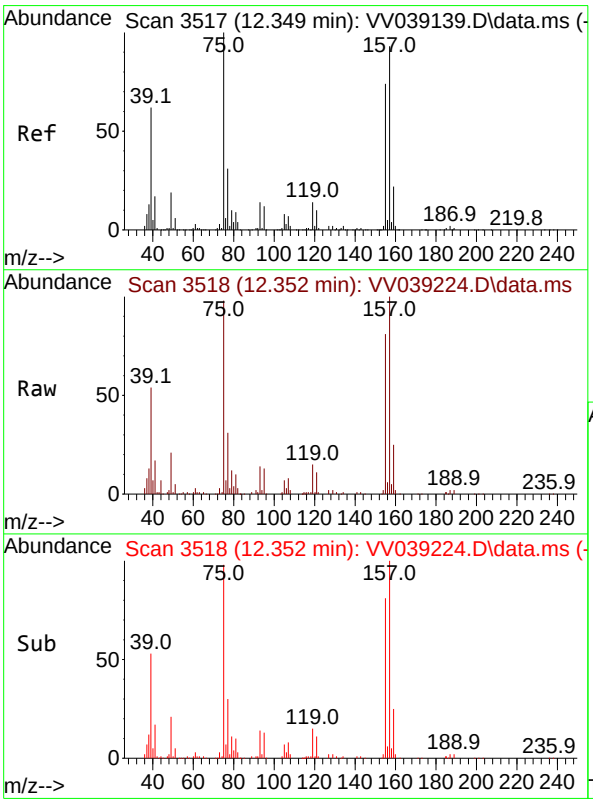

#91
1,2-Dichlorobenzene
Concen: 19.740 ug/l
RT: 11.567 min Scan# 3
Delta R.T. 0.000 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion:146 Resp: 340057

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.6 | 21.5 | 64.5 |
| 148 | 65.5 | 31.9 | 95.7 |

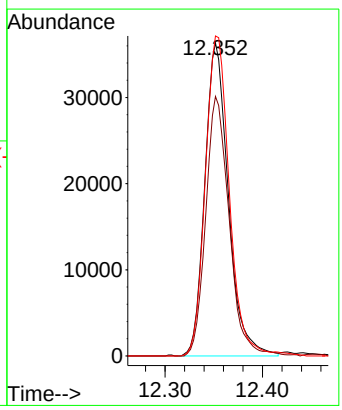


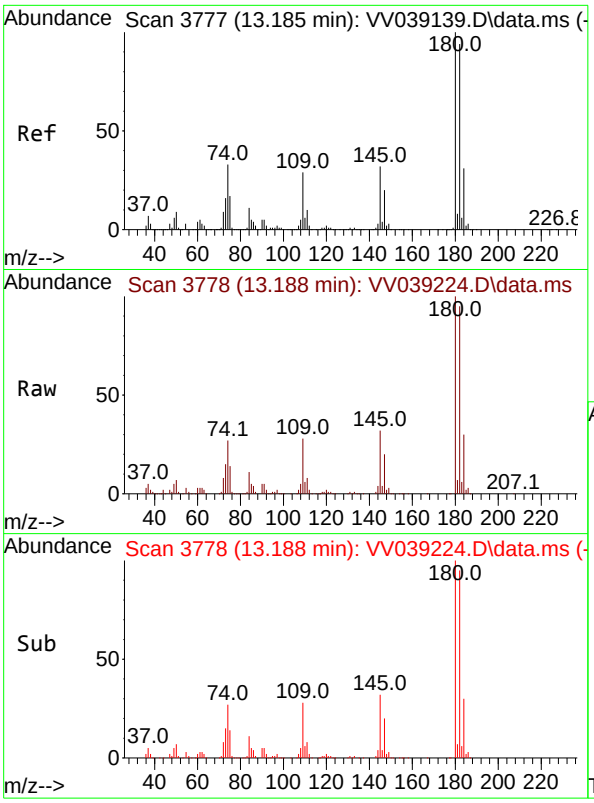




#92
1,2-Dibromo-3-Chloropropane
Concen: 22.277 ug/l
RT: 12.352 min Scan# 3518
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion: 75 Resp: 60941

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 82.4 | 38.6 | 115.8 |
| 157 | 104.8 | 49.5 | 148.3 |



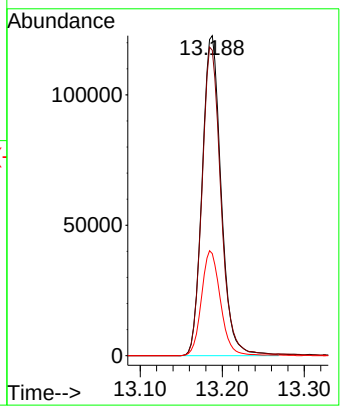


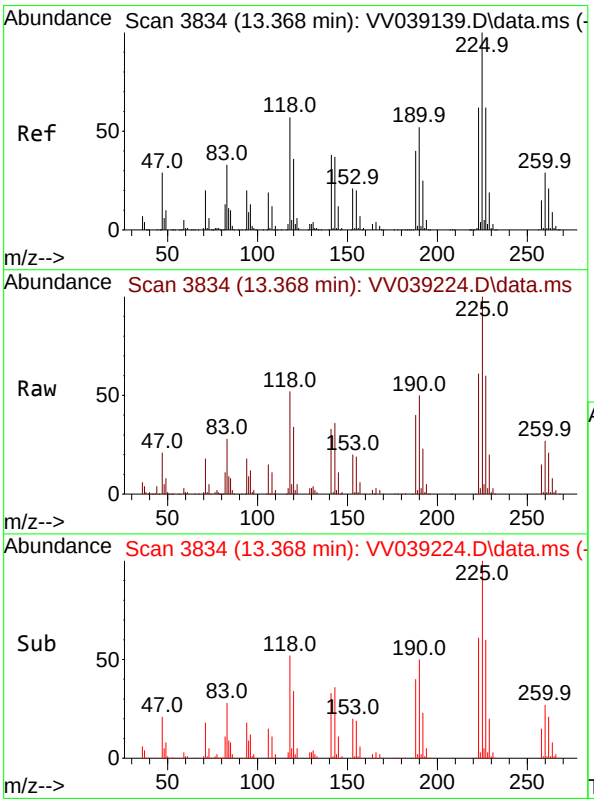

#93
1,2,4-Trichlorobenzene
Concen: 19.964 ug/l
RT: 13.188 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion:180 Resp: 197145

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.3 | 47.1 | 141.4 |
| 145 | 33.0 | 16.3 | 48.8 |

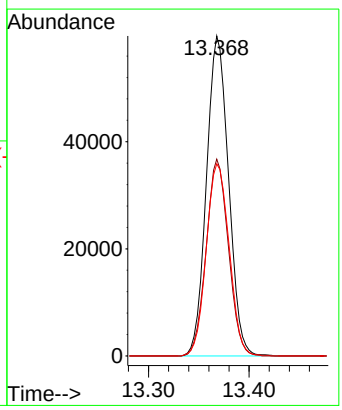


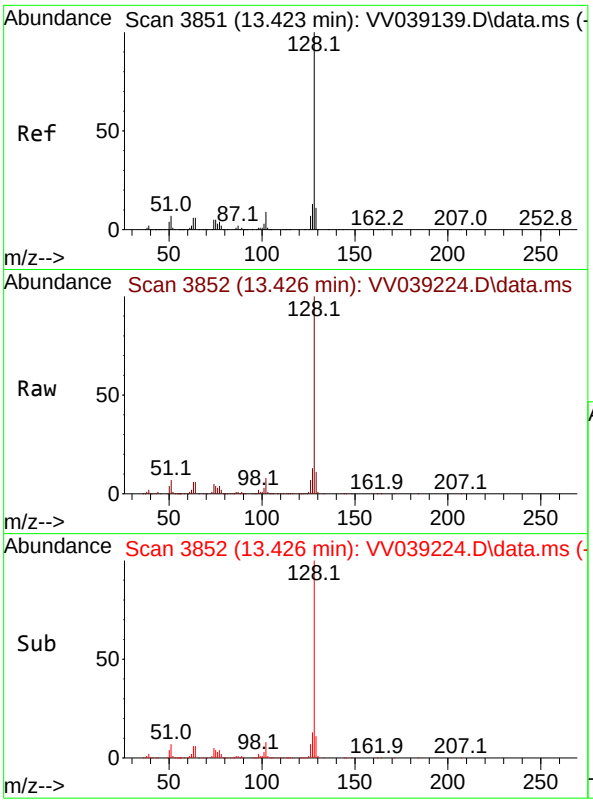




#94
Hexachlorobutadiene
Concen: 17.798 ug/l
RT: 13.368 min Scan# 3834
Delta R.T. -0.000 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion:225 Resp: 91322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 61.9 | 31.6 | 94.7 |
| 227 | 62.1 | 31.8 | 95.4 |



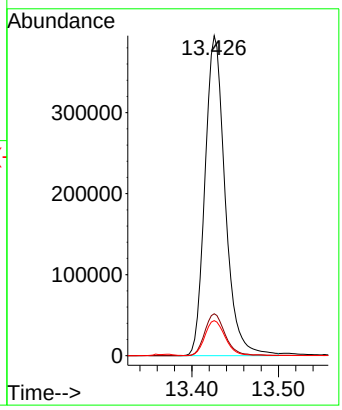


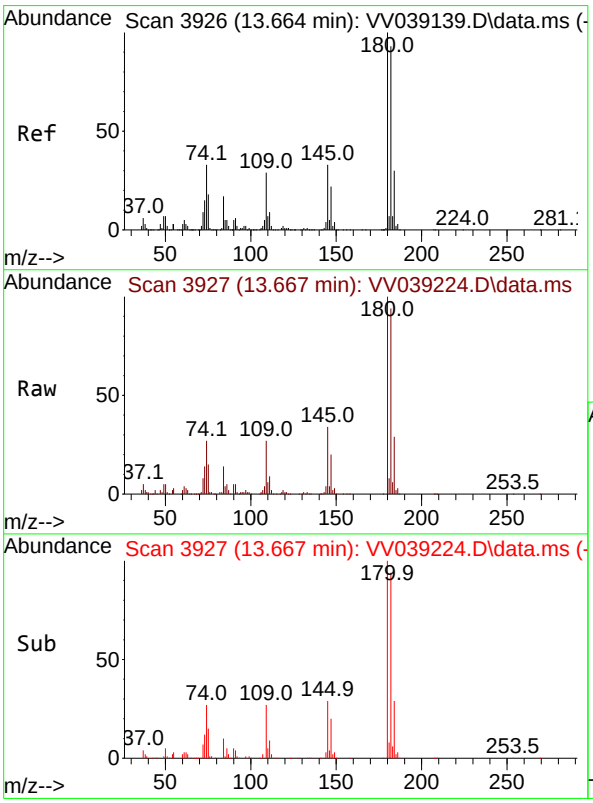

#95
Naphthalene
Concen: 20.005 ug/l
RT: 13.426 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

**Instrument :**
MSVOA_V
**ClientSampleId :**
VV0929WBS01

Tgt Ion:128 Resp: 638517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.4 | 10.3 | 15.5 |
| 129 | 10.9 | 8.6 | 13.0 |

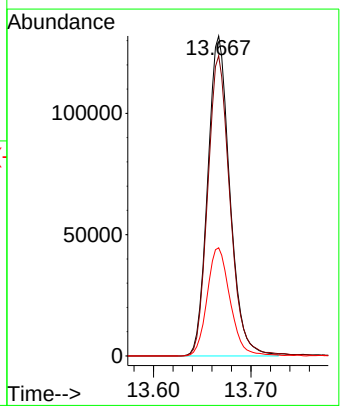



#96
1,2,3-Trichlorobenzene
Concen: 20.628 ug/l
RT: 13.667 min Scan# 3927
Delta R.T. 0.003 min
Lab File: VV039224.D
Acq: 29 Sep 2025 12:23

Tgt Ion:180 Resp: 208339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.7 | 46.9 | 140.8 |
| 145 | 35.1 | 17.0 | 51.0 |



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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/17/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-33D-091725MS | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-20MS | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039237.D | 1 | 09/29/25 17:15 | VV092925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 49.4 | | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 43.1 | | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 45.0 | | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 44.9 | | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 49.0 | | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 47.9 | | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 49.5 | | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 48.7 | | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 200 | | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 42.1 | | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 49.8 | | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 52.5 | | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 54.1 | | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 48.3 | | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 46.1 | | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 40.7 | | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 240 | | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 52.3 | | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 50.1 | | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 47.9 | | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 46.4 | | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 46.6 | | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 49.1 | | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 53.2 | | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 51.6 | | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 63.2 | | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 55.8 | | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 53.4 | | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 300 | | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 58.6 | | 0.14 | 1.00 | ug/L |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/17/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-33D-091725MS | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-20MS | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039237.D | 1 | 09/29/25 17:15 | VV092925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 57.0 | | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 51.7 | | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 55.7 | | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 280 | | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 57.6 | | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 58.7 | | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 55.4 | | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 53.6 | | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 58.4 | | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 120 | | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 62.1 | | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 55.9 | | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 60.7 | | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 52.4 | | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 46.5 | | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 51.3 | | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 49.3 | | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 50.9 | | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 53.6 | | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 52.8 | | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 53.4 | | 0.20 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 41.7 | | 74 - 125 | 83% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 51.7 | | 75 - 124 | 103% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 49.3 | | 86 - 113 | 99% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 57.1 | | 77 - 121 | 114% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 494000 | 4.6 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 723000 | 5.532 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 718000 | 8.776 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 464000 | 11.172 | | | |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/17/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-33D-091725MS | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-20MS | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039237.D | 1 | 09/29/25 17:15 | VV092925 |

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039237.D
Acq On : 29 Sep 2025 17:15
Operator : SY/MD
Sample : Q3195-20MS
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Quant Time: Sep 30 01:29:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.600 | 168 | 494074 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.532 | 114 | 722914 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.776 | 117 | 717971 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.172 | 152 | 463779 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.944 | 65 | 298046 | 41.681 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | | Recovery = 83.360% | | |
| 35) Dibromofluoromethane | 4.500 | 113 | 300465 | 51.701 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | | Recovery = 103.400% | | |
| 50) Toluene-d8 | 7.236 | 98 | 841006 | 49.271 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | | Recovery = 98.540% | | |
| 62) 4-Bromofluorobenzene | 10.001 | 95 | 400996 | 57.067 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | | Recovery = 114.140%# | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.121 | 85 | 386406 | 49.405 | ug/l | 97 |
| 3) Chloromethane | 1.227 | 50 | 362092 | 43.126 | ug/l | 98 |
| 4) Vinyl Chloride | 1.294 | 62 | 404425 | 44.993 | ug/l | 100 |
| 5) Bromomethane | 1.494 | 94 | 254510 | 44.915 | ug/l | 98 |
| 6) Chloroethane | 1.558 | 64 | 259641 | 48.990 | ug/l | 96 |
| 7) Trichlorofluoromethane | 1.725 | 101 | 623183 | 47.886 | ug/l | 99 |
| 8) Diethyl Ether | 1.918 | 74 | 236336 | 48.918 | ug/l | 91 |
| 9) 1,1,2-Trichlorotrifluo... | 2.079 | 101 | 383628 | 49.543 | ug/l | 97 |
| 10) Methyl Iodide | 2.195 | 142 | 398316 | 54.016 | ug/l | 99 |
| 11) Tert butyl alcohol | 2.571 | 59 | 419483 | 277.559 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 2.082 | 96 | 362747 | 48.695 | ug/l | 91 |
| 13) Acrolein | 2.011 | 56 | 54873 | 209.242 | ug/l | 93 |
| 14) Allyl chloride | 2.355 | 41 | 606456 | 45.576 | ug/l | 96 |
| 15) Acrylonitrile | 2.674 | 53 | 1178223 | 243.193 | ug/l | 99 |
| 16) Acetone | 2.117 | 43 | 904116 | 201.215 | ug/l | 97 |
| 17) Carbon Disulfide | 2.253 | 76 | 959826 | 42.130 | ug/l | 99 |
| 18) Methyl Acetate | 2.378 | 43 | 556007 | 52.479 | ug/l | 96 |
| 19) Methyl tert-butyl Ether | 2.712 | 73 | 1182602 | 49.820 | ug/l | 100 |
| 20) Methylene Chloride | 2.455 | 84 | 415757 | 54.112 | ug/l | 94 |
| 21) trans-1,2-Dichloroethene | 2.699 | 96 | 383354 | 48.340 | ug/l | 96 |
| 22) Diisopropyl ether | 3.217 | 45 | 1178542 | 46.291 | ug/l | 98 |
| 23) Vinyl Acetate | 3.188 | 43 | 5180952 | 232.628 | ug/l | 97 |
| 24) 1,1-Dichloroethane | 3.117 | 63 | 718406 | 46.143 | ug/l | 98 |
| 25) 2-Butanone | 3.867 | 43 | 1387581 | 242.327 | ug/l | 98 |
| 26) 2,2-Dichloropropane | 3.812 | 77 | 552601 | 40.030 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 3.818 | 96 | 438015 | 50.080 | ug/l | 94 |
| 28) Bromochloromethane | 4.146 | 49 | 328927 | 47.856 | ug/l | 87 |
| 29) Tetrahydrofuran | 4.236 | 42 | 930513 | 259.623 | ug/l | 96 |
| 30) Chloroform | 4.278 | 83 | 754498 | 46.409 | ug/l | 98 |
| 31) Cyclohexane | 4.584 | 56 | 519580 | 40.739 | ug/l | 97 |
| 32) 1,1,1-Trichloroethane | 4.513 | 97 | 656518 | 46.645 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 4.744 | 75 | 455596 | 51.851 | ug/l | 98 |
| 37) Ethyl Acetate | 3.979 | 43 | 533392 | 50.028 | ug/l | 98 |
| 38) Carbon Tetrachloride | 4.735 | 117 | 561360 | 52.275 | ug/l | 99 |
| 39) Methylcyclohexane | 6.047 | 83 | 521023 | 49.102 | ug/l | 96 |
| 40) Benzene | 5.008 | 78 | 1522784 | 53.221 | ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039237.D
Acq On : 29 Sep 2025 17:15
Operator : SY/MD
Sample : Q3195-20MS
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Quant Time: Sep 30 01:29:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.159 | 41 | 251054 | 52.000 | ug/l | | 95 |
| 42) 1,2-Dichloroethane | 5.040 | 62 | 516822 | 51.551 | ug/l | | 98 |
| 43) Isopropyl Acetate | 5.195 | 43 | 803487 | 55.271 | ug/l | | 98 |
| 44) Trichloroethene | 5.831 | 130 | 417556 | 63.243 | ug/l | | 99 |
| 45) 1,2-Dichloropropane | 6.088 | 63 | 396539 | 55.758 | ug/l | | 98 |
| 46) Dibromomethane | 6.223 | 93 | 300681 | 55.239 | ug/l | | 93 |
| 47) Bromodichloromethane | 6.426 | 83 | 600401 | 53.355 | ug/l | | 98 |
| 48) Methyl methacrylate | 6.294 | 41 | 389168 | 59.056 | ug/l | | 96 |
| 49) 1,4-Dioxane | 6.291 | 88 | 134567 | 1265.383 | ug/l | | 97 |
| 51) 4-Methyl-2-Pentanone | 7.149 | 43 | 2899248 | 303.149 | ug/l | | 97 |
| 52) Toluene | 7.307 | 92 | 971887 | 58.584 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 7.574 | 75 | 559095 | 57.011 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 6.947 | 75 | 559990 | 51.725 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 7.760 | 97 | 414549 | 55.730 | ug/l | | 97 |
| 56) Ethyl methacrylate | 7.715 | 69 | 562462 | 63.672 | ug/l | | 95 |
| 57) 1,3-Dichloropropane | 7.934 | 76 | 653401 | 55.659 | ug/l | | 99 |
| 59) 2-Hexanone | 8.063 | 43 | 2190138 | 283.389 | ug/l | | 98 |
| 60) Dibromochloromethane | 8.169 | 129 | 487809 | 57.553 | ug/l | | 98 |
| 61) 1,2-Dibromoethane | 8.272 | 107 | 446765 | 58.729 | ug/l | | 100 |
| 64) Tetrachloroethene | 7.895 | 164 | 333065 | 55.385 | ug/l | | 98 |
| 65) Chlorobenzene | 8.805 | 112 | 1072211 | 53.614 | ug/l | | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 8.899 | 131 | 401399 | 55.549 | ug/l | | 99 |
| 67) Ethyl Benzene | 8.937 | 91 | 1767918 | 58.400 | ug/l | | 99 |
| 68) m/p-Xylenes | 9.063 | 106 | 1454532 | 124.490 | ug/l | | 98 |
| 69) o-Xylene | 9.468 | 106 | 642334 | 62.089 | ug/l | | 97 |
| 70) Styrene | 9.484 | 104 | 1227294 | 55.861 | ug/l | | 99 |
| 71) Bromoform | 9.654 | 173 | 342488 | 60.678 | ug/l | # | 98 |
| 73) Isopropylbenzene | 9.857 | 105 | 1762396 | 52.393 | ug/l | | 100 |
| 74) N-amyl acetate | 9.725 | 43 | 731113 | 54.489 | ug/l | | 97 |
| 75) 1,1,2,2-Tetrachloroethane | 10.165 | 83 | 685568 | 46.515 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 10.198 | 75 | 515358 | 48.805 | ug/l | | 99 |
| 77) Bromobenzene | 10.140 | 156 | 449861 | 51.546 | ug/l | | 97 |
| 78) n-propylbenzene | 10.278 | 91 | 2135598 | 52.135 | ug/l | | 98 |
| 79) 2-Chlorotoluene | 10.349 | 91 | 1296224 | 52.883 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 10.464 | 105 | 1521131 | 54.405 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 9.927 | 75 | 224319 | 50.999 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 10.461 | 91 | 1550297 | 54.545 | ug/l | | 98 |
| 83) tert-Butylbenzene | 10.789 | 119 | 1432871 | 51.394 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 10.837 | 105 | 1522222 | 56.079 | ug/l | | 99 |
| 85) sec-Butylbenzene | 11.011 | 105 | 1837748 | 49.697 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 11.165 | 119 | 1565969 | 50.879 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 11.104 | 146 | 906378 | 51.316 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 11.198 | 146 | 954552 | 49.260 | ug/l | | 99 |
| 89) n-Butylbenzene | 11.580 | 91 | 1461115 | 49.707 | ug/l | | 99 |
| 90) Hexachloroethane | 11.821 | 117 | 325035 | 42.885 | ug/l | | 95 |
| 91) 1,2-Dichlorobenzene | 11.567 | 146 | 839410 | 50.867 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.349 | 75 | 142548 | 53.576 | ug/l | | 92 |
| 93) 1,2,4-Trichlorobenzene | 13.185 | 180 | 499193 | 52.772 | ug/l | | 100 |
| 94) Hexachlorobutadiene | 13.368 | 225 | 200469 | 40.785 | ug/l | | 100 |
| 95) Naphthalene | 13.422 | 128 | 1820572 | 59.545 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 13.667 | 180 | 516977 | 53.435 | ug/l | | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039237.D
Acq On : 29 Sep 2025 17:15
Operator : SY/MD
Sample : Q3195-20MS
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Quant Time: Sep 30 01:29:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

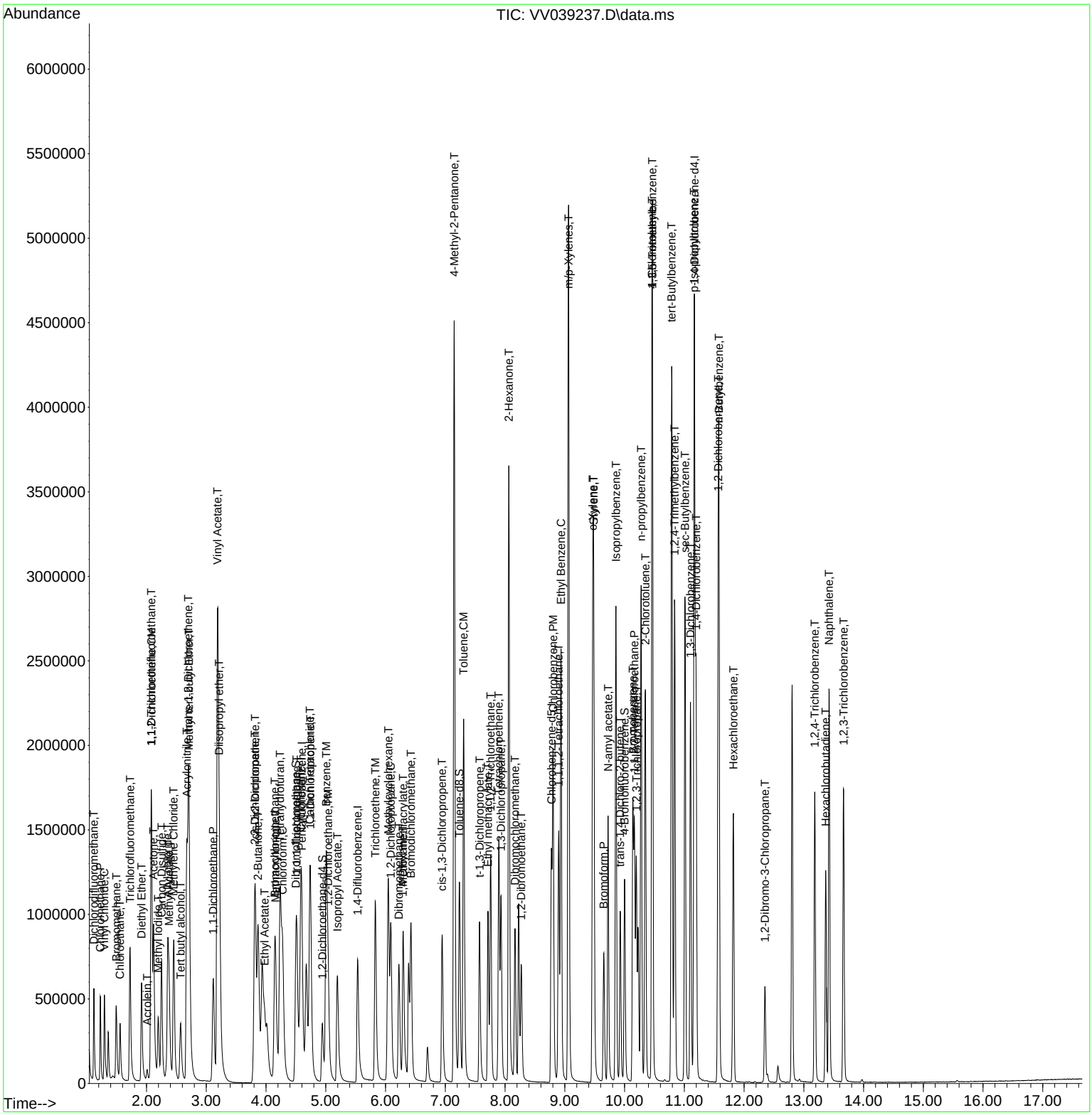
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

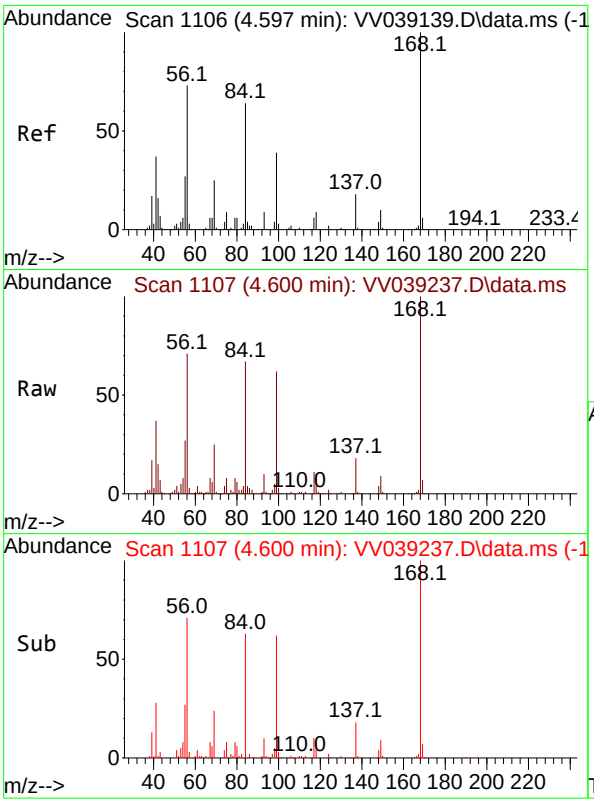
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039237.D
Acq On : 29 Sep 2025 17:15
Operator : SY/MD
Sample : Q3195-20MS
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Quant Time: Sep 30 01:29:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



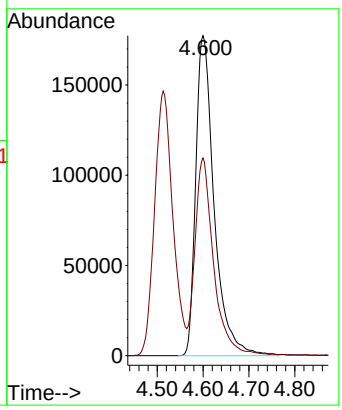


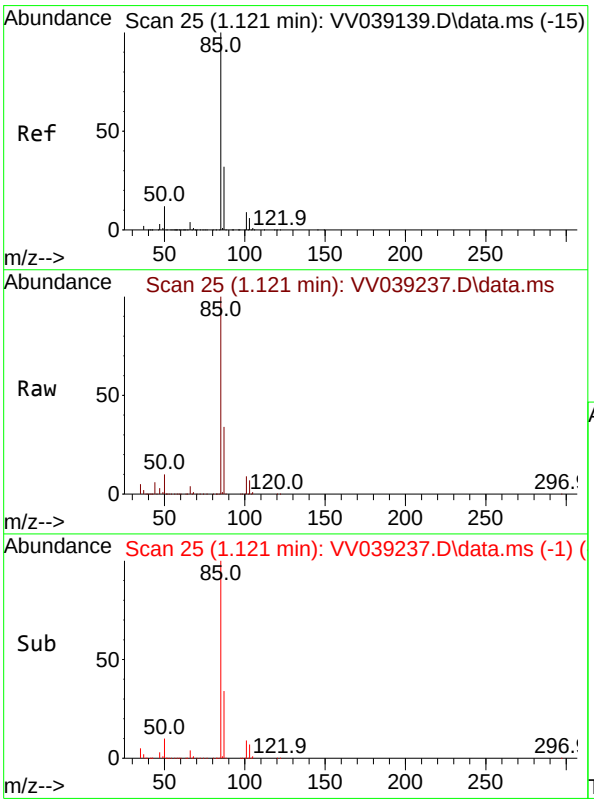

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion:168 Resp: 494074

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 61.4 | 49.6 | 74.4 |

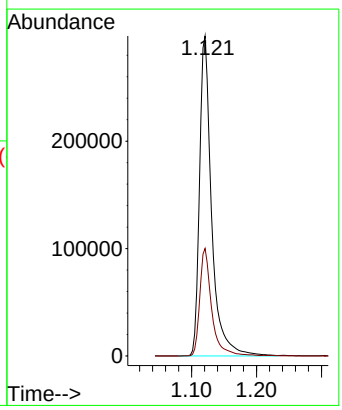


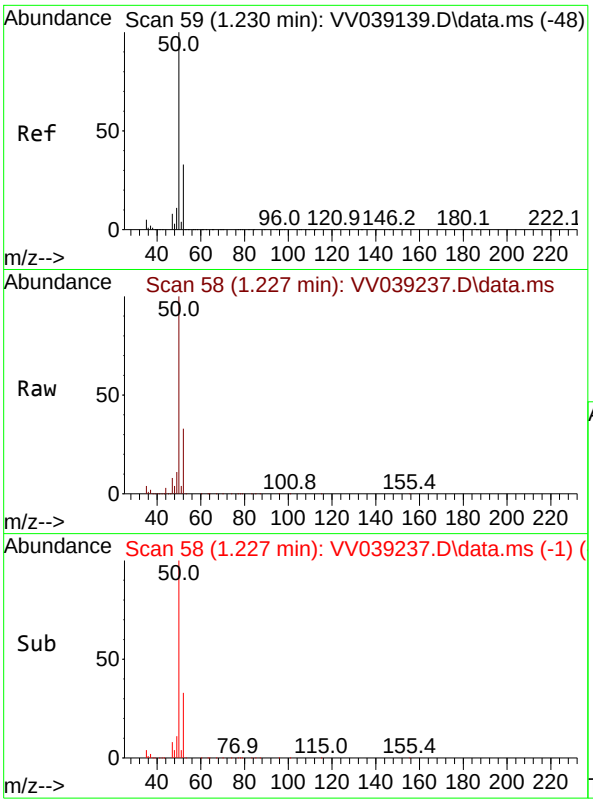




#2
Dichlorodifluoromethane
Concen: 49.405 ug/l
RT: 1.121 min Scan# 25
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 85 Resp: 386406

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.6 | 16.0 | 47.9 |



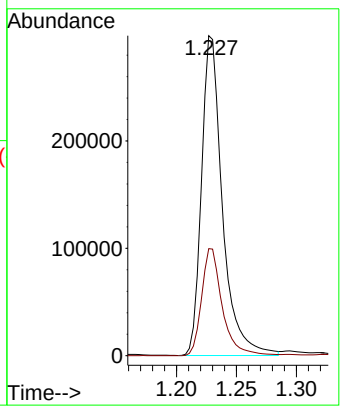


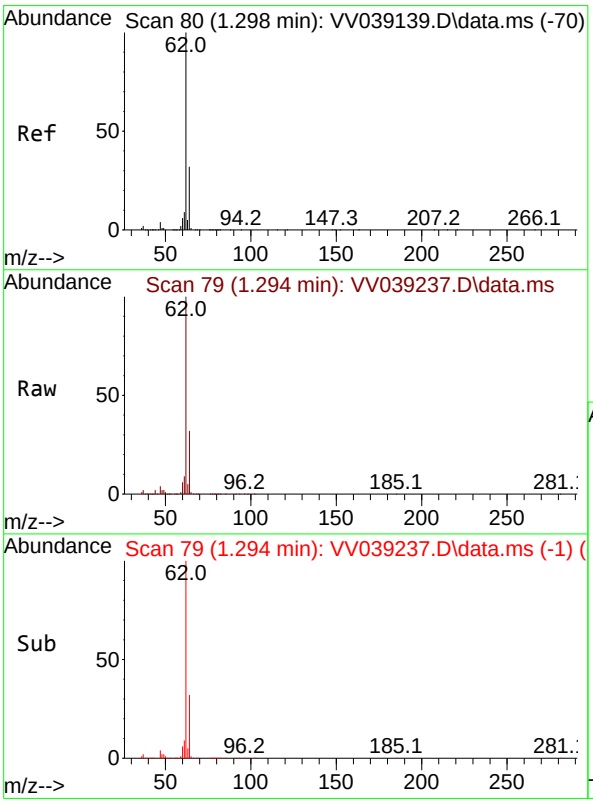

#3
Chloromethane
Concen: 43.126 ug/l
RT: 1.227 min Scan# 5
Delta R.T. -0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion: 50 Resp: 362092

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.5 | 26.0 | 39.0 |

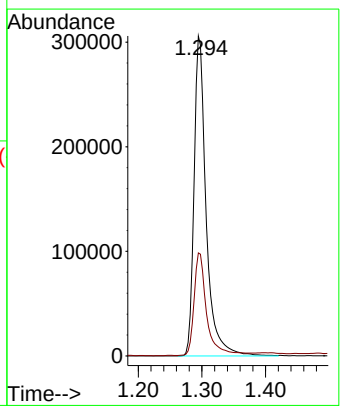


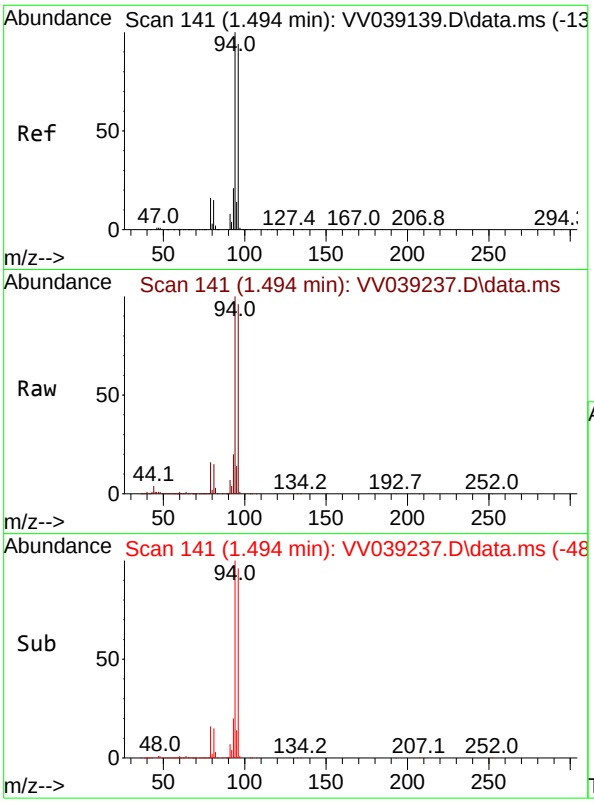




#4
Vinyl Chloride
Concen: 44.993 ug/l
RT: 1.294 min Scan# 79
Delta R.T. -0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 62 Resp: 404425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.1 | 25.6 | 38.4 |



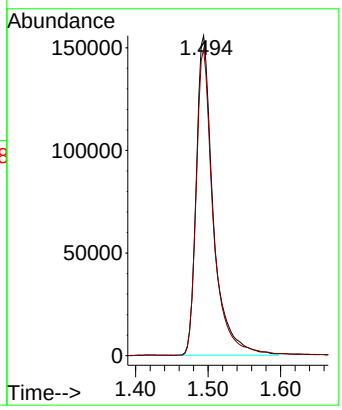


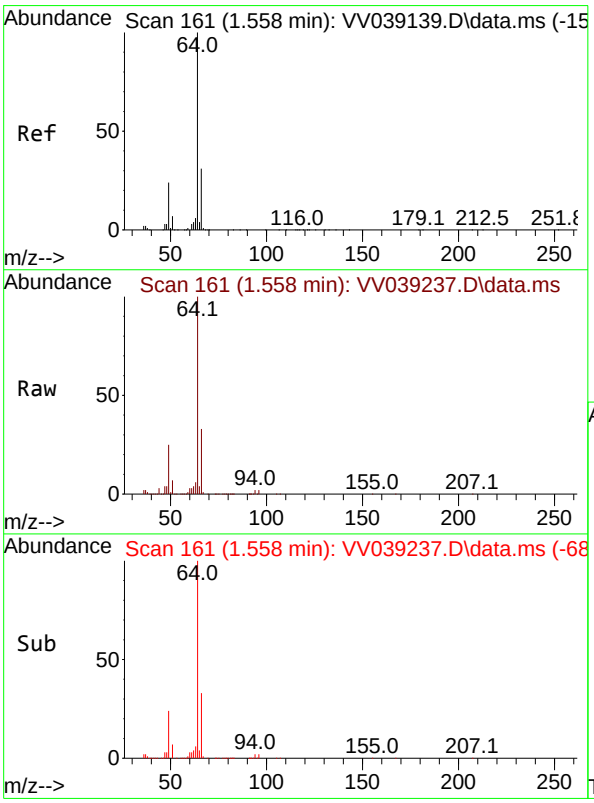

#5
Bromomethane
Concen: 44.915 ug/l
RT: 1.494 min Scan# 14
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion: 94 Resp: 254510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 95.8 | 74.9 | 112.3 |

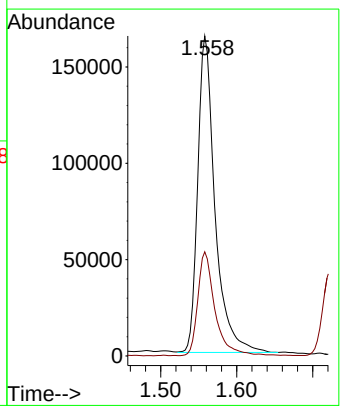


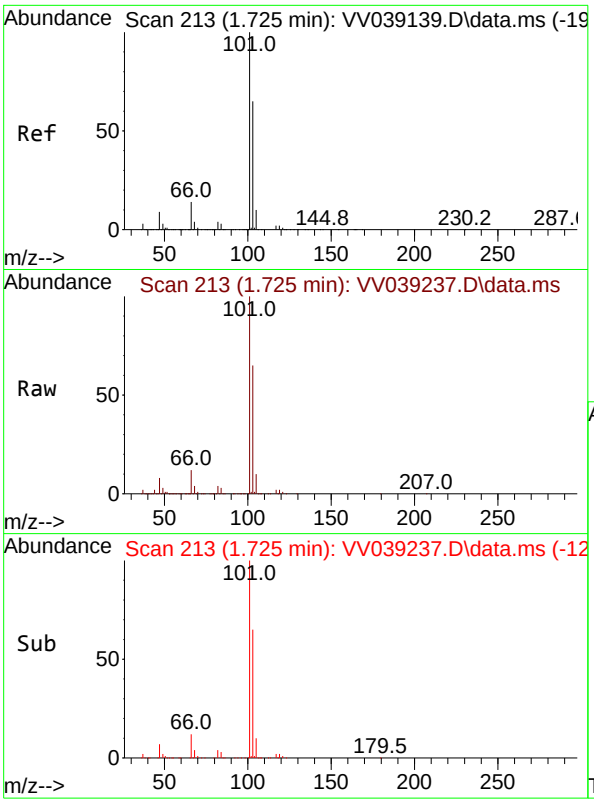




#6
Chloroethane
Concen: 48.990 ug/l
RT: 1.558 min Scan# 161
Delta R.T. 0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 64 Resp: 259641

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.8 | 24.6 | 36.8 |



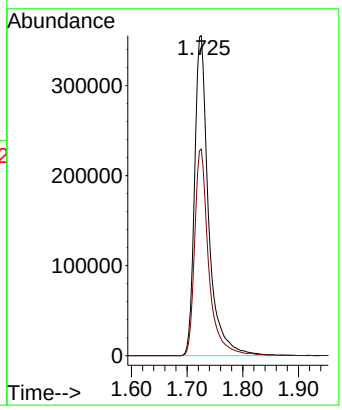


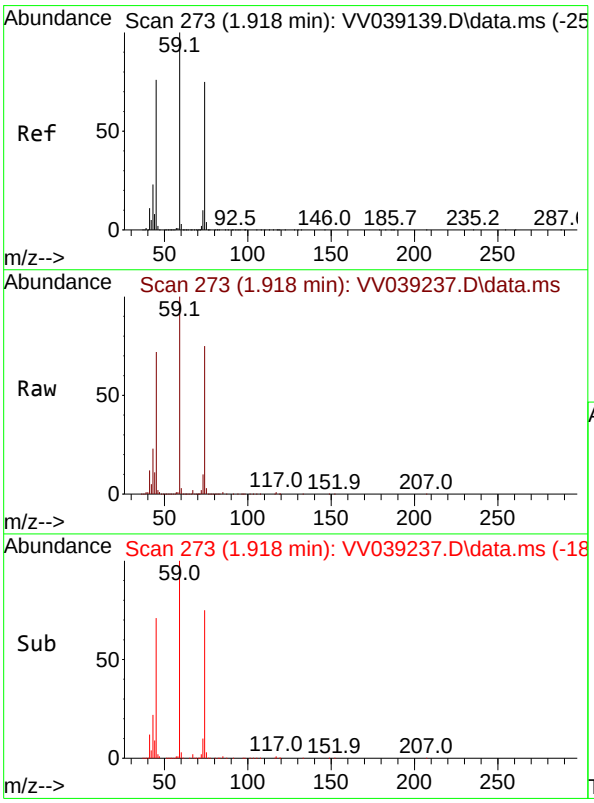

#7
Trichlorofluoromethane
Concen: 47.886 ug/l
RT: 1.725 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion:101 Resp: 623183

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.6 | 52.0 | 78.0 |

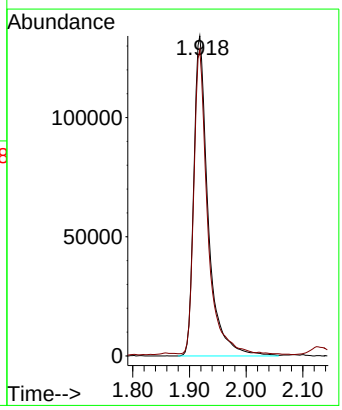


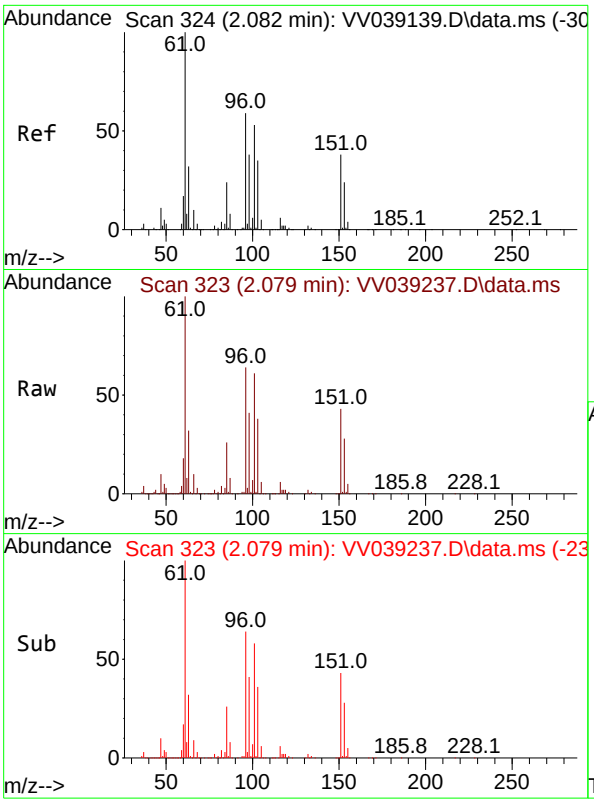




#8
Diethyl Ether
Concen: 48.918 ug/l
RT: 1.918 min Scan# 273
Delta R.T. 0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 74 Resp: 236336

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 90.6 | 49.6 | 148.8 |



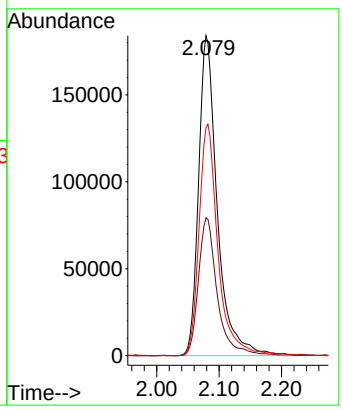


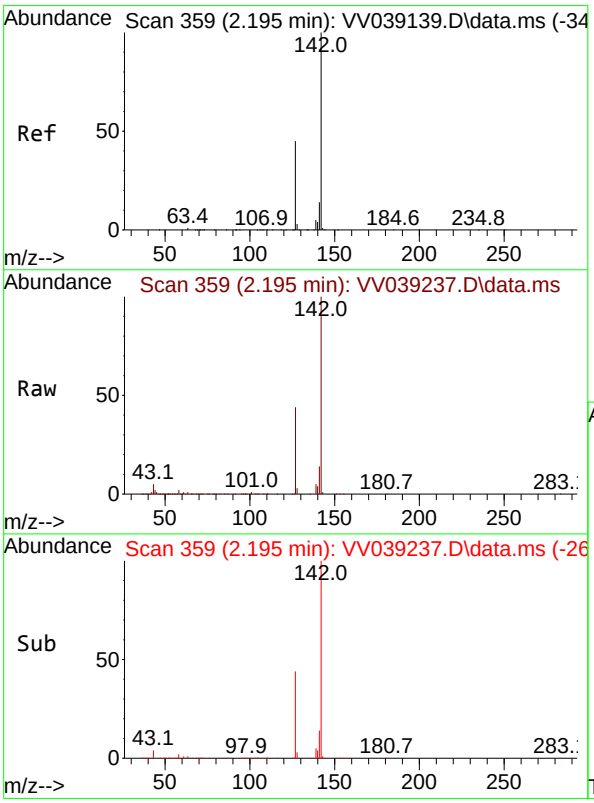

#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.543 ug/l
RT: 2.079 min Scan# 3
Delta R.T. -0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion:101 Resp: 383628

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 43.6 | 36.2 | 54.2 |
| 151 | 73.1 | 56.3 | 84.5 |

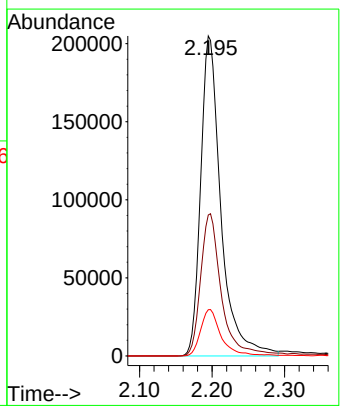


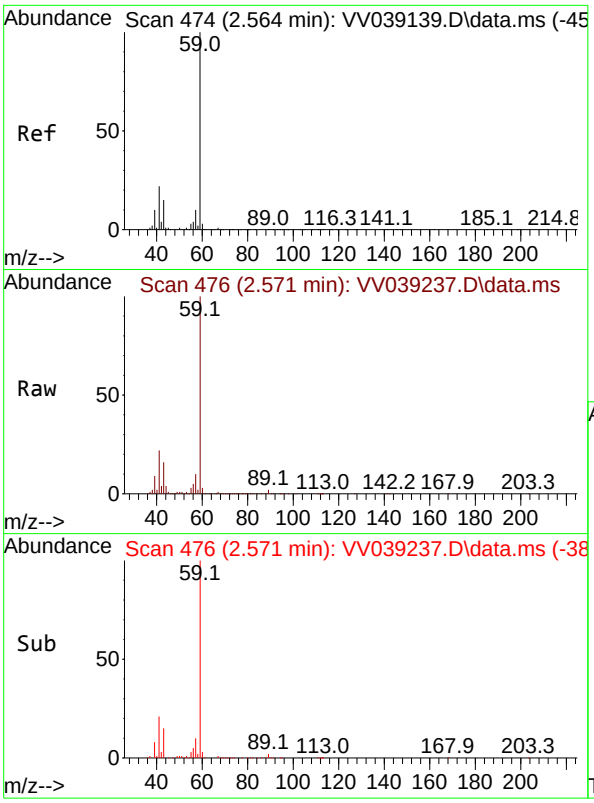




#10
Methyl Iodide
Concen: 54.016 ug/l
RT: 2.195 min Scan# 359
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion:142 Resp: 398316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 45.7 | 36.3 | 54.5 |
| 141 | 14.6 | 11.2 | 16.8 |



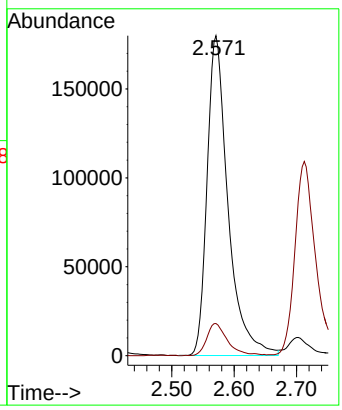


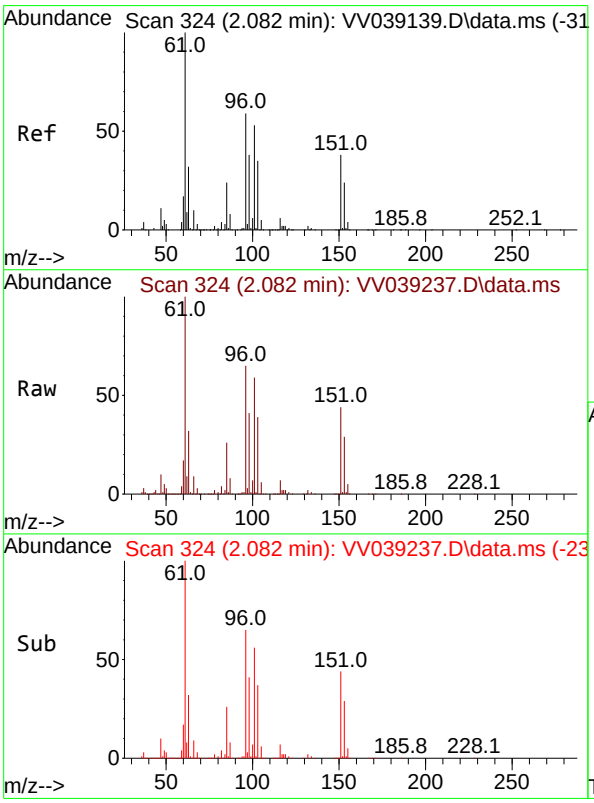

#11
Tert butyl alcohol
Concen: 277.559 ug/l
RT: 2.571 min Scan# 4
Delta R.T. 0.006 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion: 59 Resp: 419483

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 9.6 | 7.8 | 11.8 |

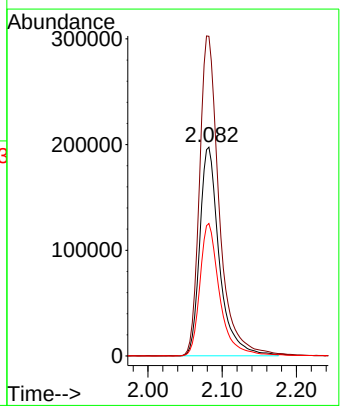


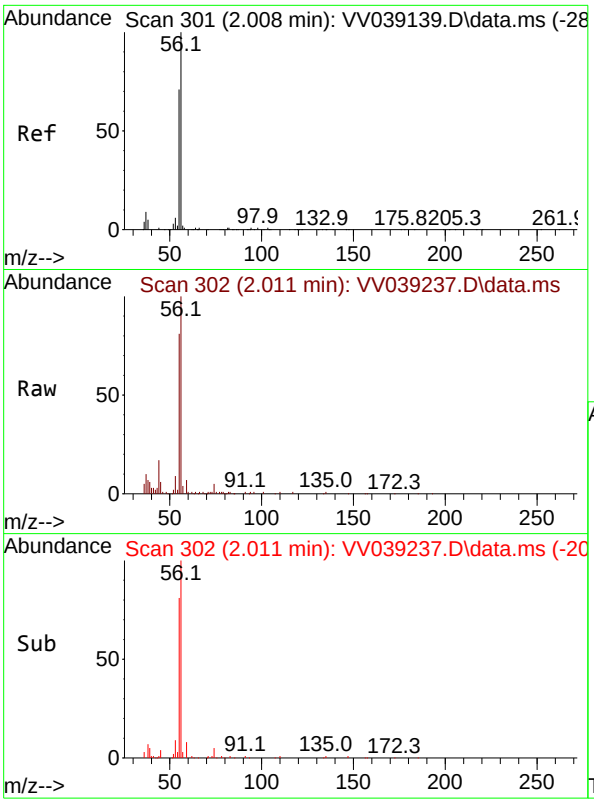




#12
1,1-Dichloroethene
Concen: 48.695 ug/l
RT: 2.082 min Scan# 324
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 96 Resp: 362747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 153.2 | 136.0 | 204.0 |
| 98 | 63.4 | 51.0 | 76.6 |



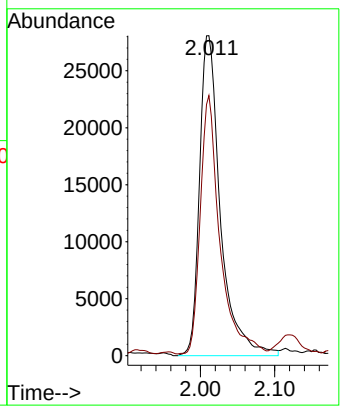


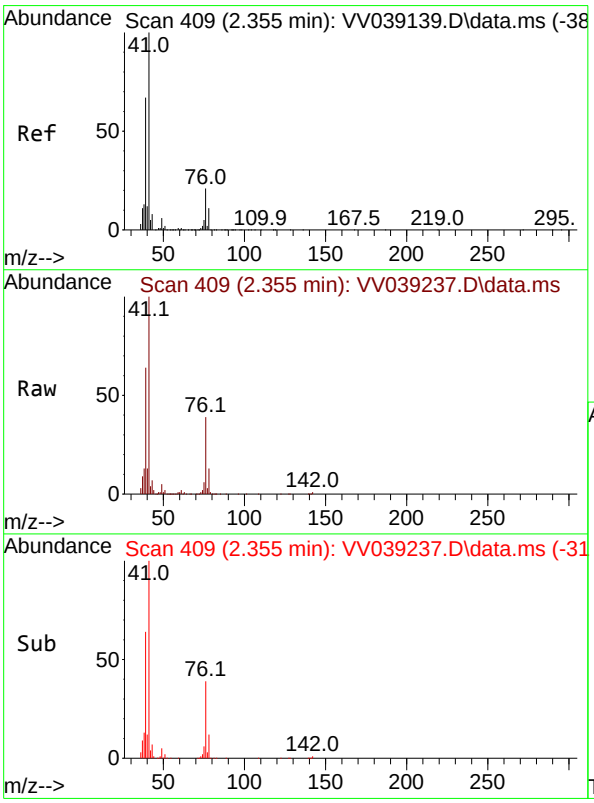

#13
Acrolein
Concen: 209.242 ug/l
RT: 2.011 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion: 56 Resp: 54873

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 75.7 | 56.2 | 84.4 |

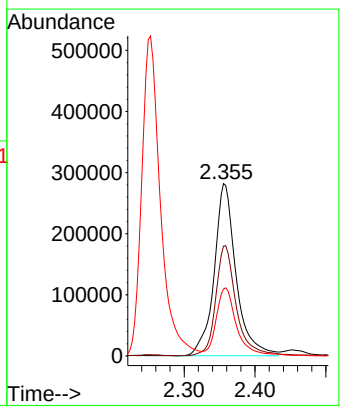


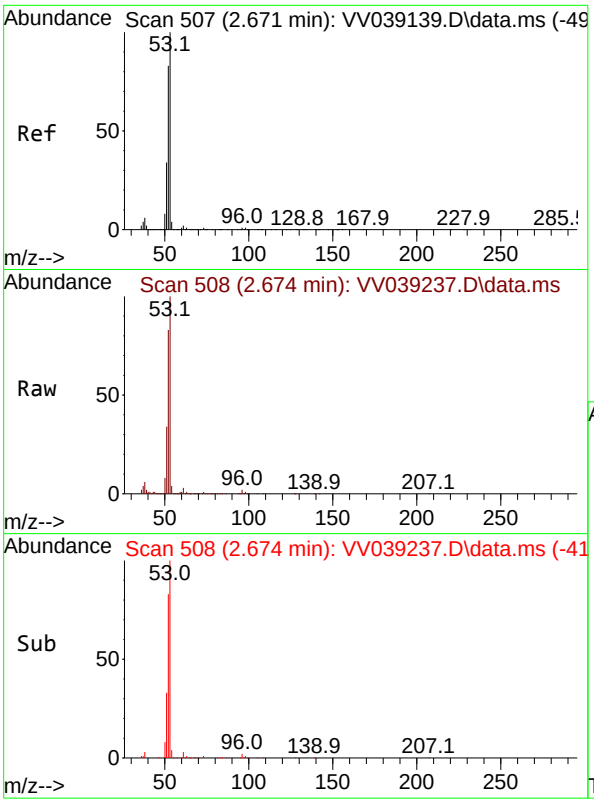




#14
Allyl chloride
Concen: 45.576 ug/l
RT: 2.355 min Scan# 409
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 41 Resp: 606456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 60.4 | 51.0 | 76.6 |
| 76 | 36.9 | 28.2 | 42.4 |



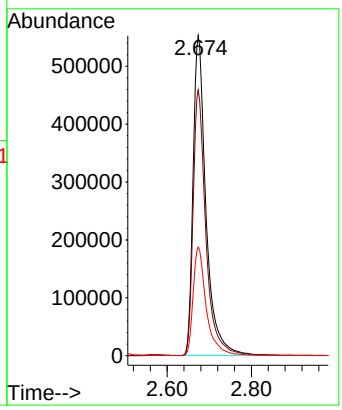


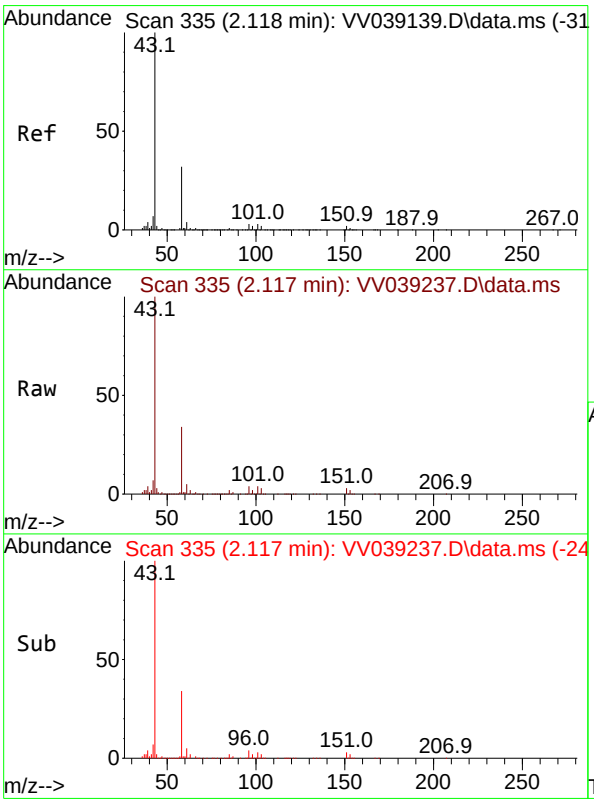

#15
Acrylonitrile
Concen: 243.193 ug/l
RT: 2.674 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion: 53 Resp: 1178223

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.2 | 66.1 | 99.1 |
| 51 | 34.6 | 28.5 | 42.7 |

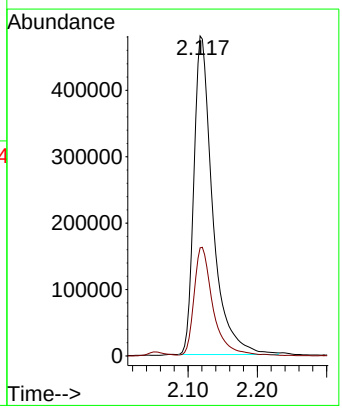


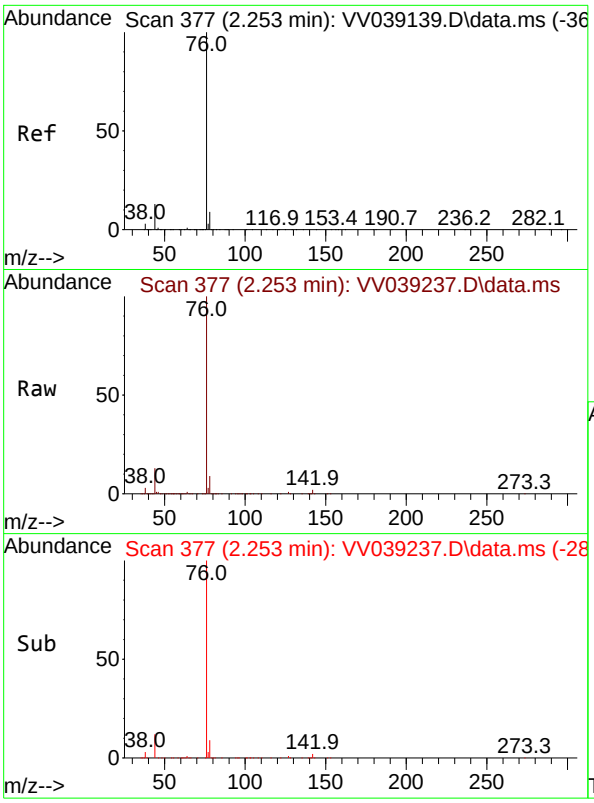




#16
Acetone
Concen: 201.215 ug/l
RT: 2.117 min Scan# 335
Delta R.T. -0.001 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 43 Resp: 904116

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.7 | 25.8 | 38.6 |



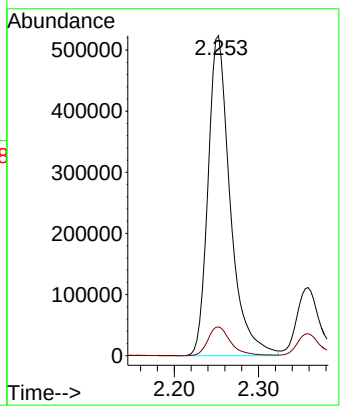


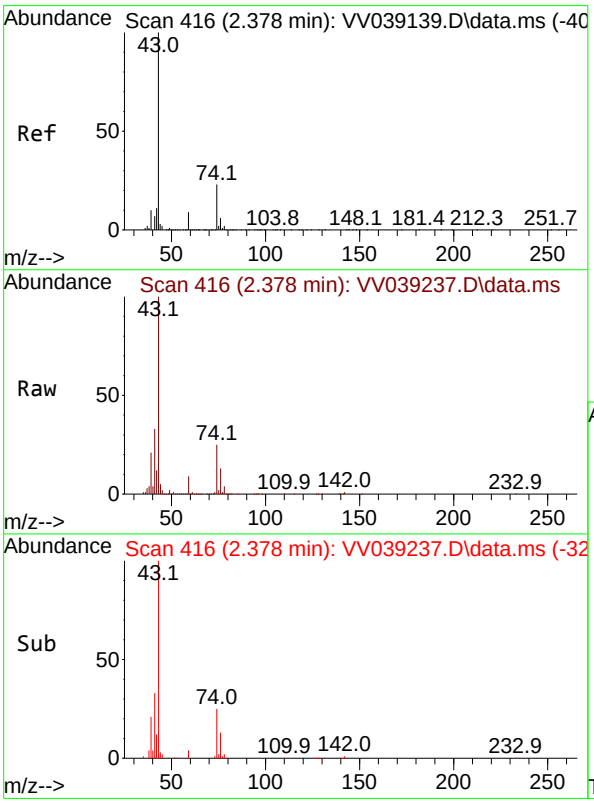

#17
Carbon Disulfide
Concen: 42.130 ug/l
RT: 2.253 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion: 76 Resp: 959826

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.0 | 7.4 | 11.0 |

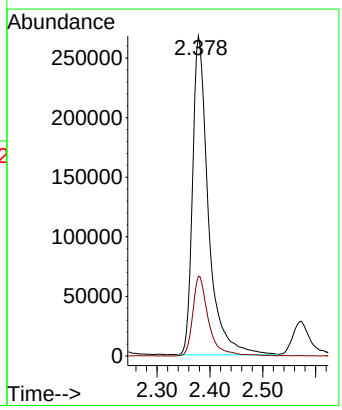


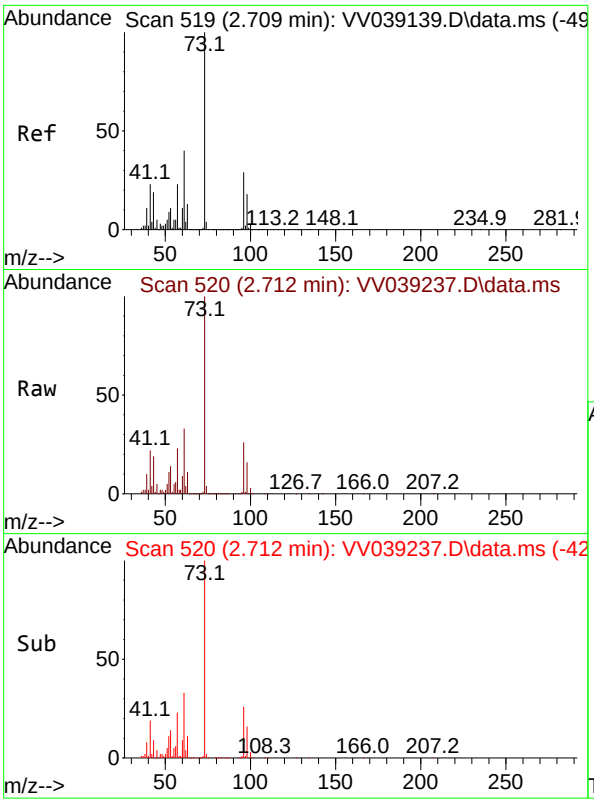




#18
Methyl Acetate
Concen: 52.479 ug/l
RT: 2.378 min Scan# 416
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 43 Resp: 556007

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 25.1 | 18.6 | 27.8 |



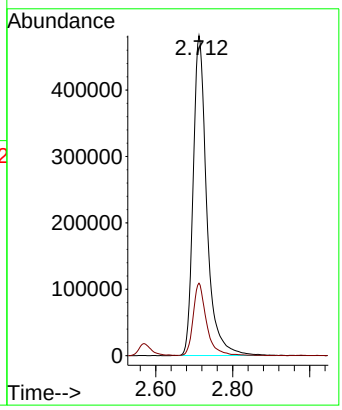


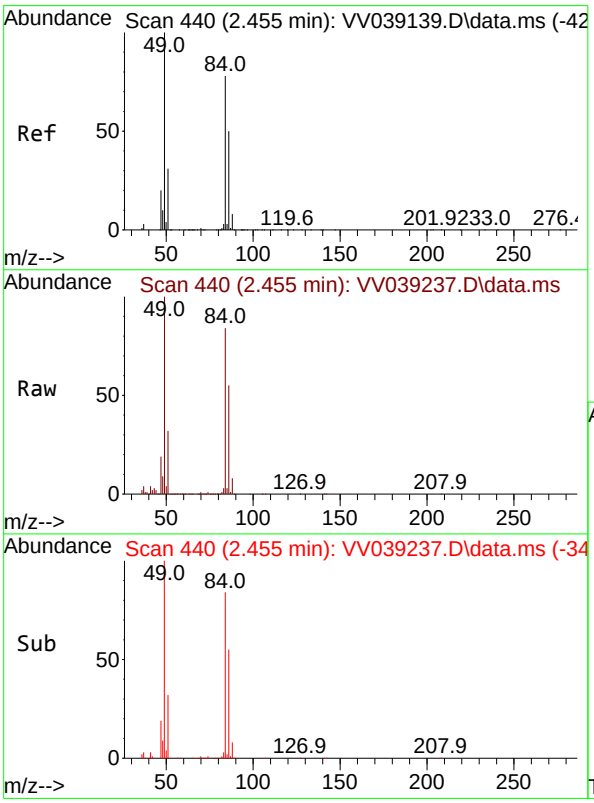

#19
Methyl tert-butyl Ether
Concen: 49.820 ug/l
RT: 2.712 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion: 73 Resp: 1182602

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.6 | 18.2 | 27.4 |

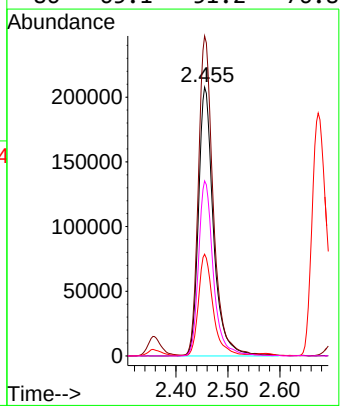


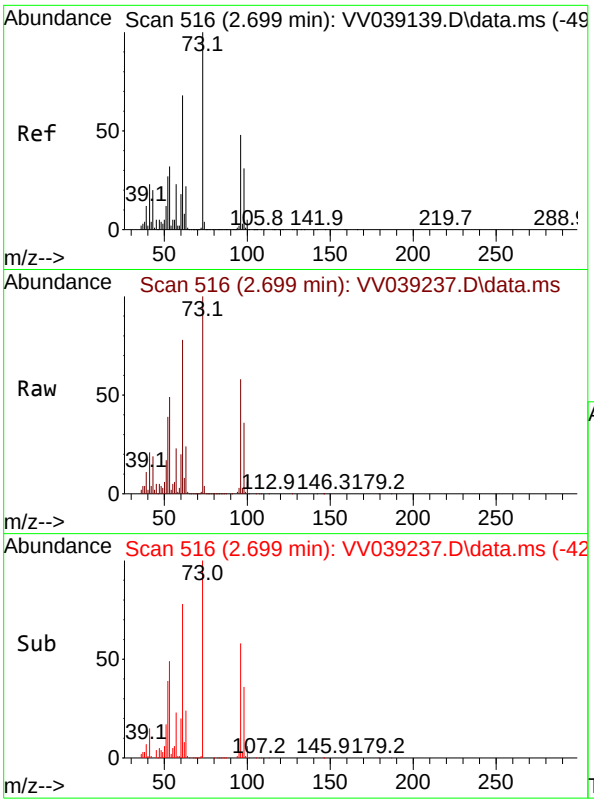




#20
Methylene Chloride
Concen: 54.112 ug/l
RT: 2.455 min Scan# 440
Delta R.T. 0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 84 Resp: 415757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 118.7 | 102.8 | 154.2 |
| 51 | 37.6 | 31.9 | 47.9 |
| 86 | 65.1 | 51.2 | 76.8 |



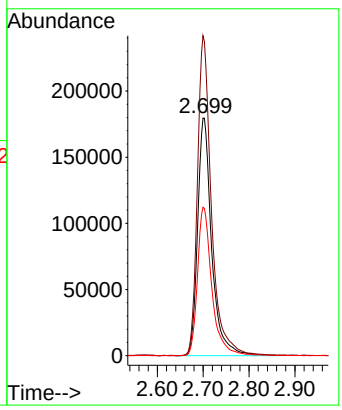


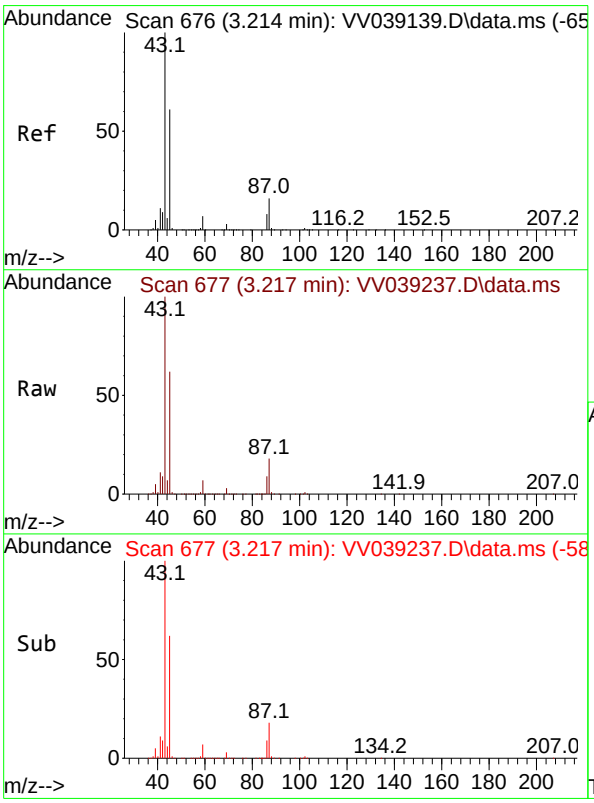

#21
trans-1,2-Dichloroethene
Concen: 48.340 ug/l
RT: 2.699 min Scan# 5
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion: 96 Resp: 383354

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 134.7 | 112.8 | 169.2 |
| 98 | 62.5 | 51.1 | 76.7 |

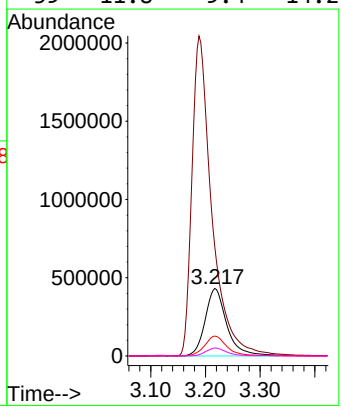


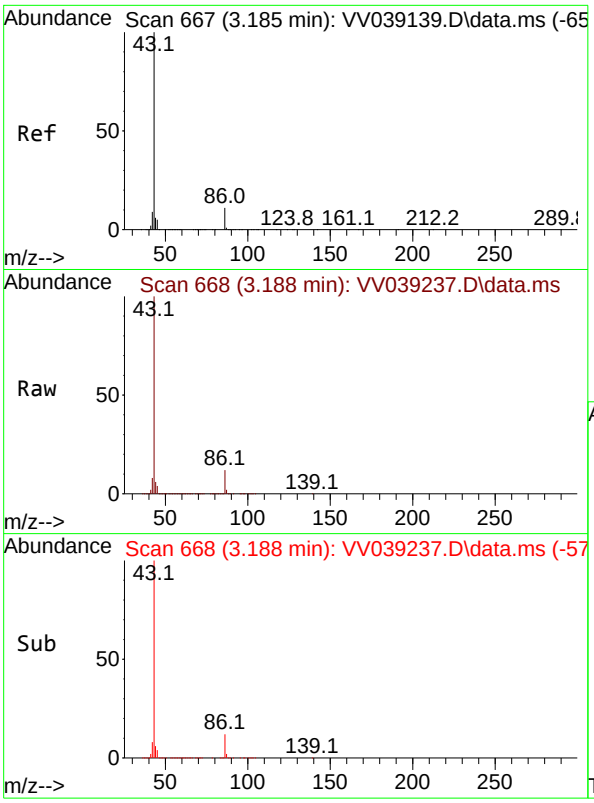




#22
Diisopropyl ether
Concen: 46.291 ug/l
RT: 3.217 min Scan# 677
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 45 Resp: 1178542

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 161.0 | 130.9 | 196.3 |
| 87 | 29.4 | 21.1 | 31.7 |
| 59 | 11.8 | 9.4 | 14.2 |



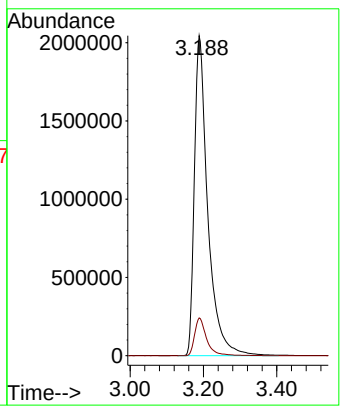


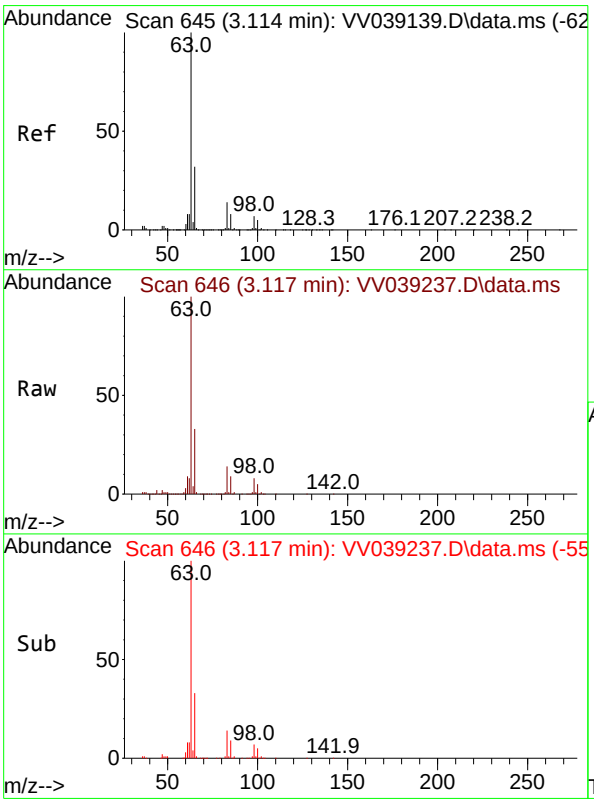

#23
Vinyl Acetate
Concen: 232.628 ug/l
RT: 3.188 min Scan# 6
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion: 43 Resp: 5180952

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.8 | 8.4 | 12.6 |

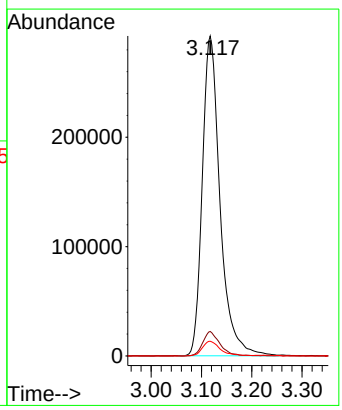


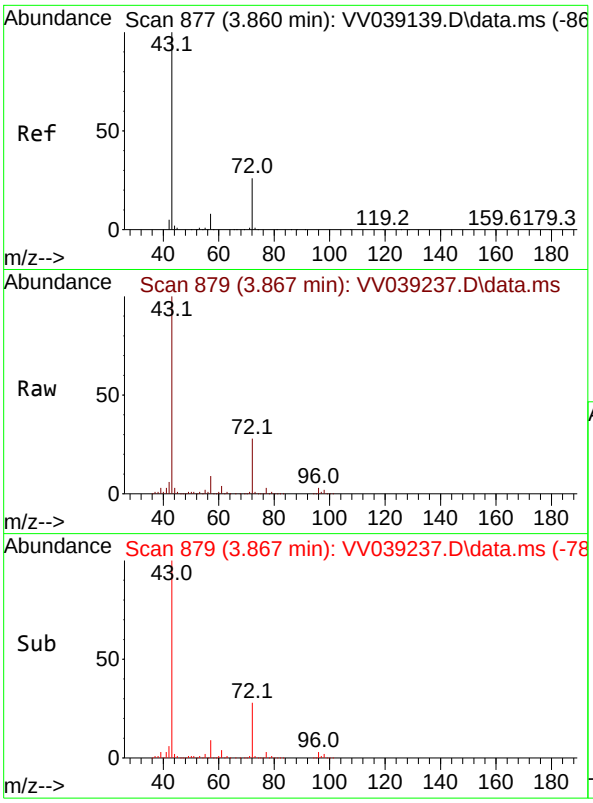




#24
1,1-Dichloroethane
Concen: 46.143 ug/l
RT: 3.117 min Scan# 646
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 63 Resp: 718406

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.6 | 3.4 | 10.2 |
| 100 | 4.6 | 2.2 | 6.6 |



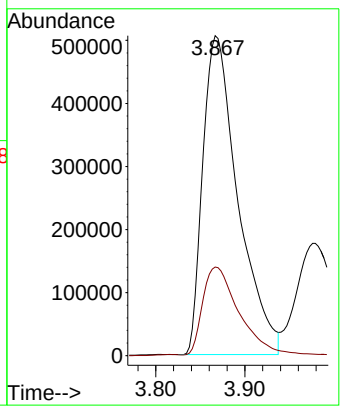


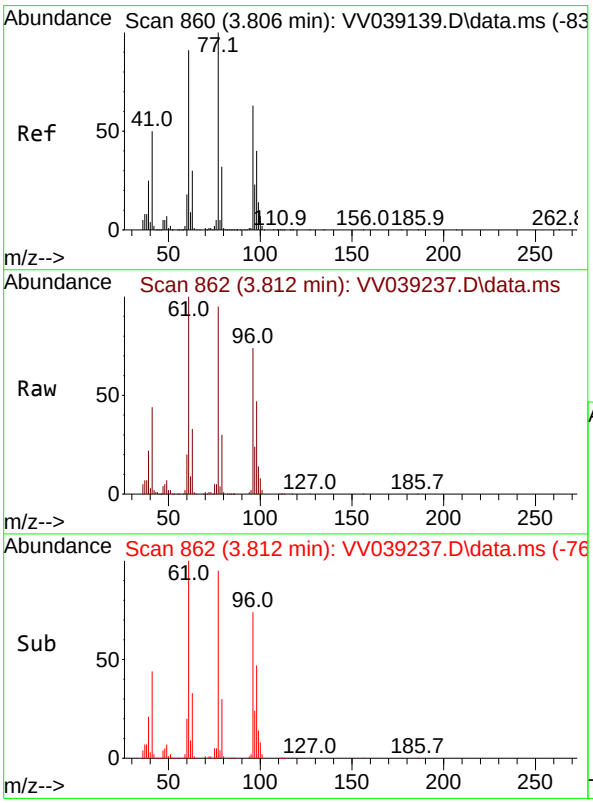

#25
2-Butanone
Concen: 242.327 ug/l
RT: 3.867 min Scan# 8
Delta R.T. 0.006 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion: 43 Resp: 1387581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 27.5 | 21.0 | 31.6 |

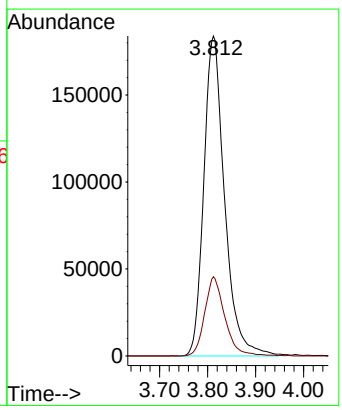


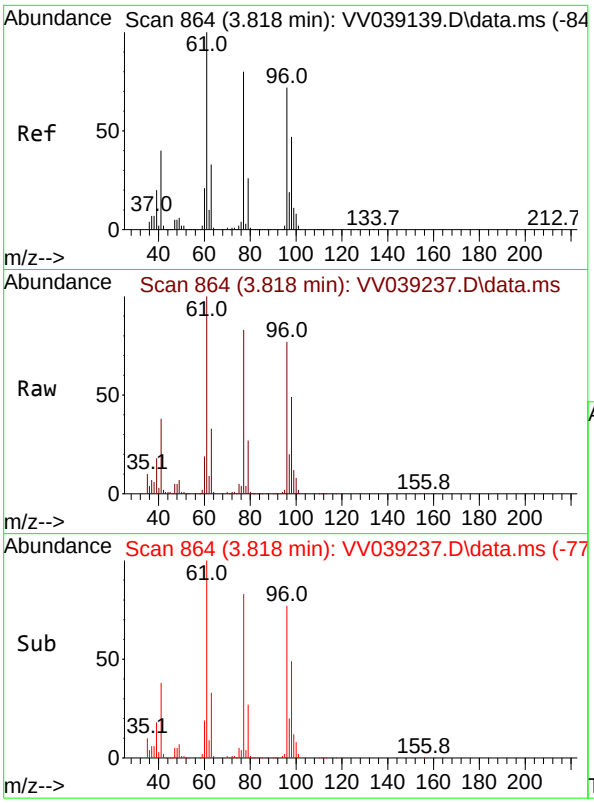




#26
2,2-Dichloropropane
Concen: 40.030 ug/l
RT: 3.812 min Scan# 862
Delta R.T. 0.006 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 77 Resp: 552601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 24.0 | 11.6 | 34.7 |



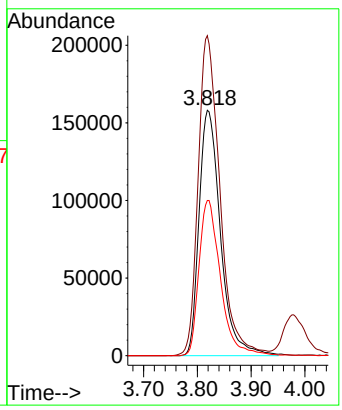


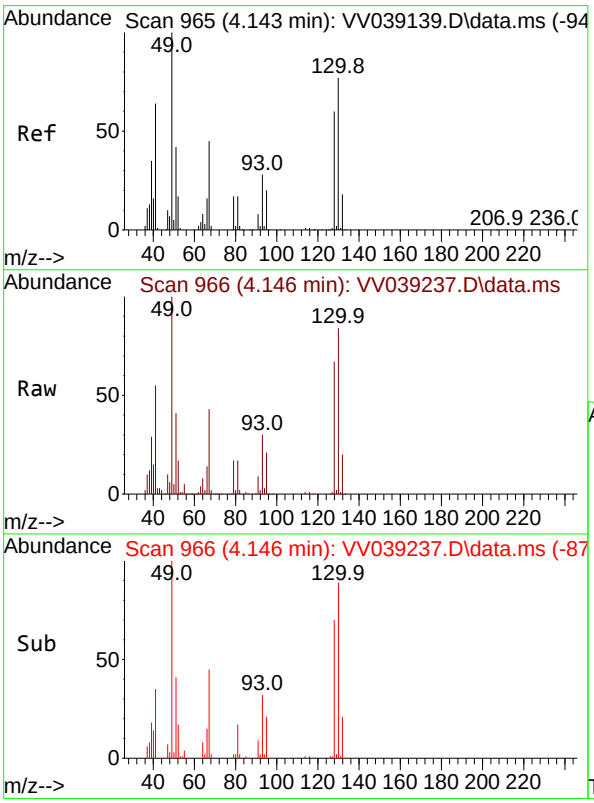

#27
cis-1,2-Dichloroethene
Concen: 50.080 ug/l
RT: 3.818 min Scan# 8
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion: 96 Resp: 438015

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 132.8 | 0.0 | 286.4 |
| 98 | 63.4 | 0.0 | 126.6 |

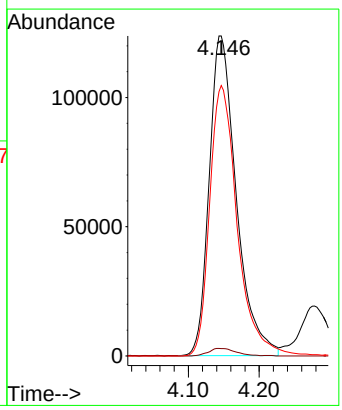


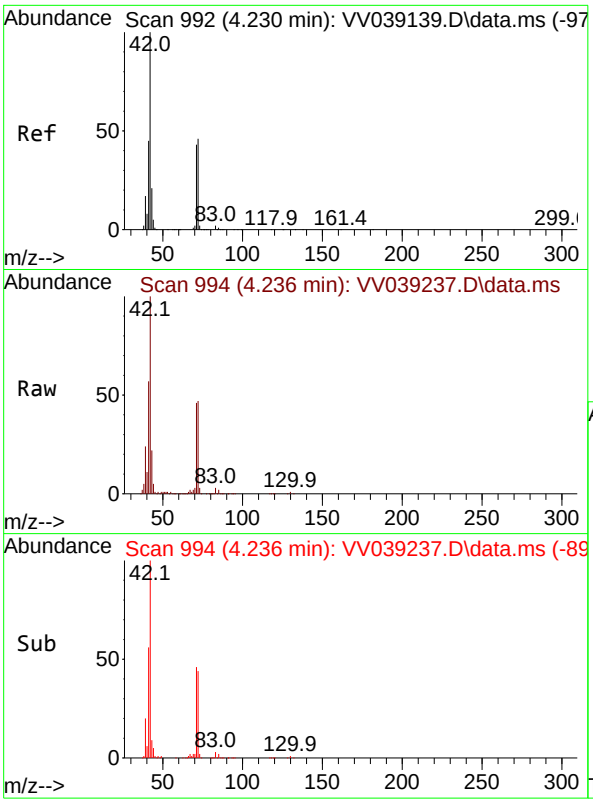




#28
Bromochloromethane
Concen: 47.856 ug/l
RT: 4.146 min Scan# 966
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 49 Resp: 328927

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.4 | 0.0 | 4.2 |
| 130 | 86.3 | 60.2 | 90.2 |



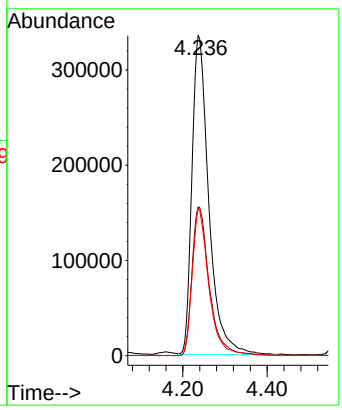


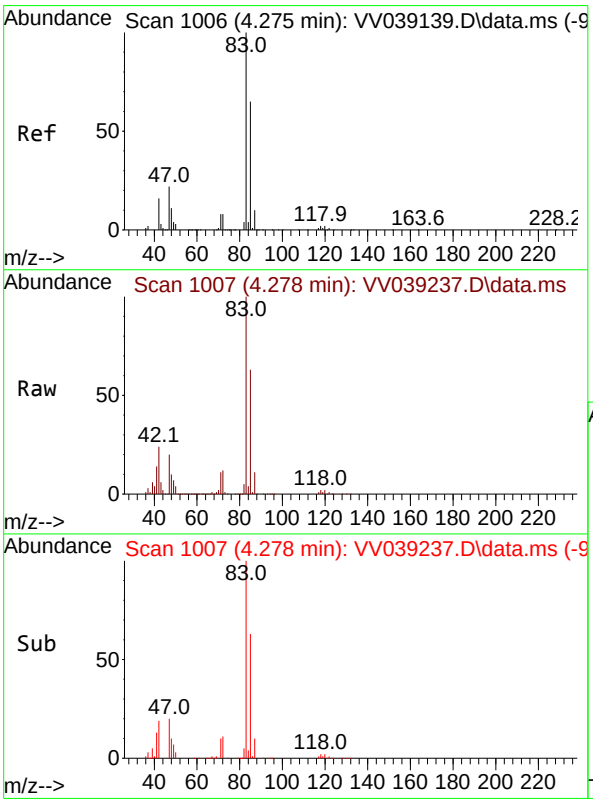

#29
Tetrahydrofuran
Concen: 259.623 ug/l
RT: 4.236 min Scan# 9
Delta R.T. 0.006 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion: 42 Resp: 930513

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 47.7 | 36.3 | 54.5 |
| 71 | 45.4 | 34.3 | 51.5 |

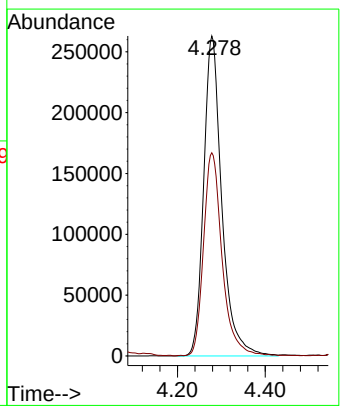


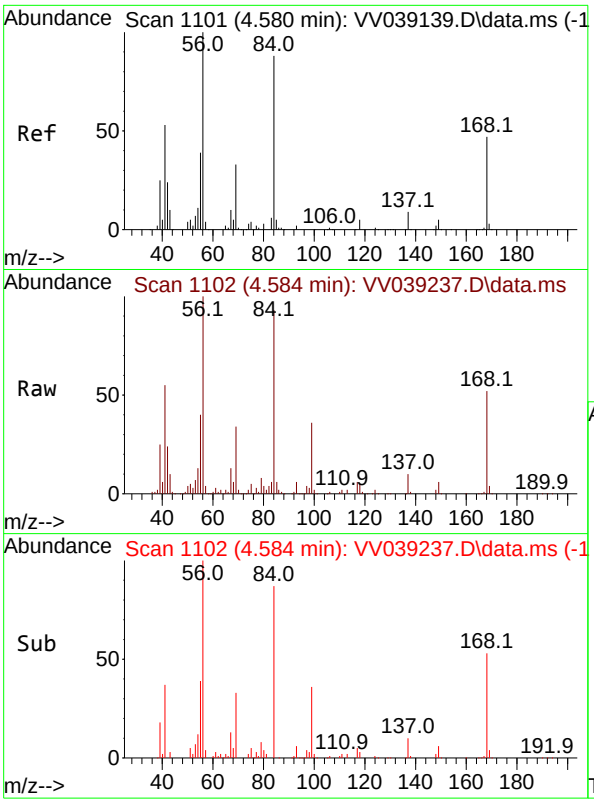




#30
Chloroform
Concen: 46.409 ug/l
RT: 4.278 min Scan# 1007
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 83 Resp: 754498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.3 | 52.1 | 78.1 |



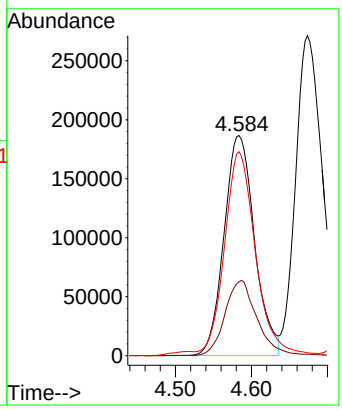


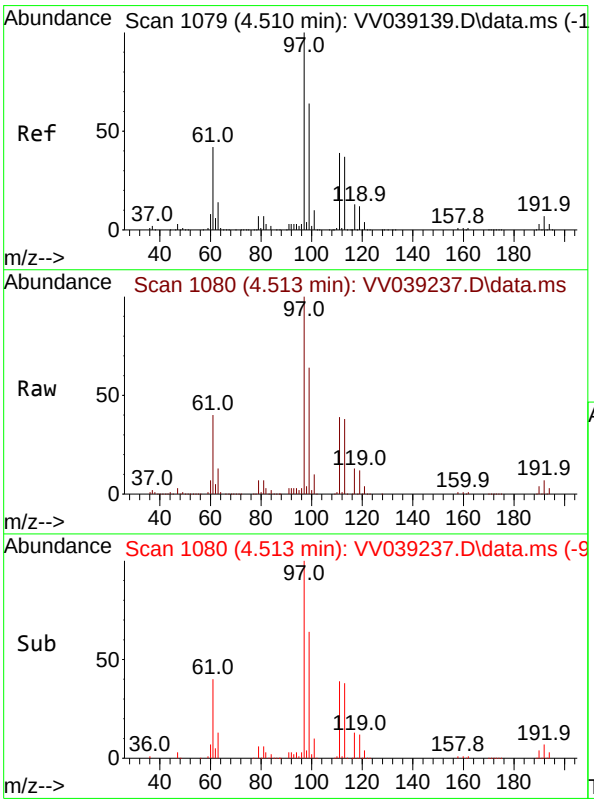

#31
Cyclohexane
Concen: 40.739 ug/l
RT: 4.584 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion: 56 Resp: 519580

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 33.5 | 26.2 | 39.2 |
| 84 | 91.2 | 70.3 | 105.5 |

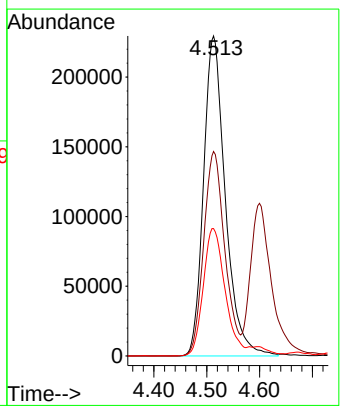


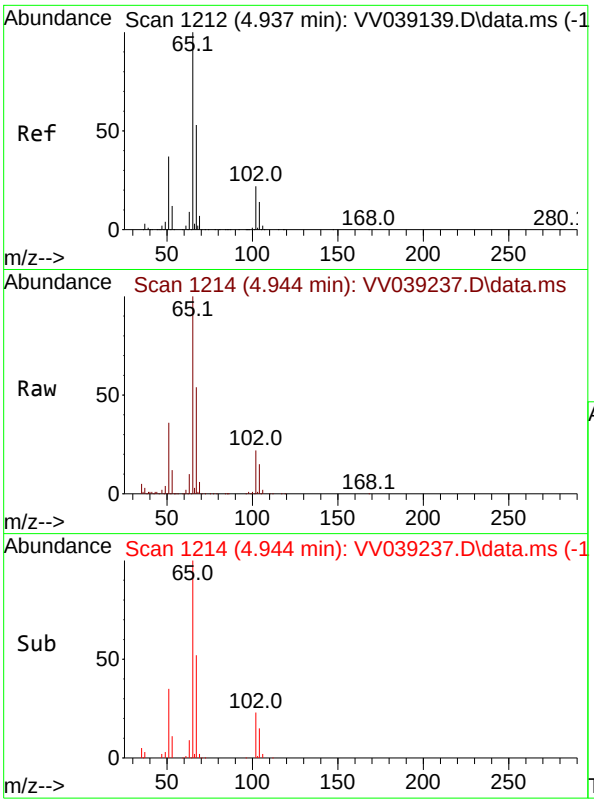




#32
1,1,1-Trichloroethane
Concen: 46.645 ug/l
RT: 4.513 min Scan# 1080
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 97 Resp: 656518

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 62.0 | 49.6 | 74.4 |
| 61 | 39.7 | 34.5 | 51.7 |



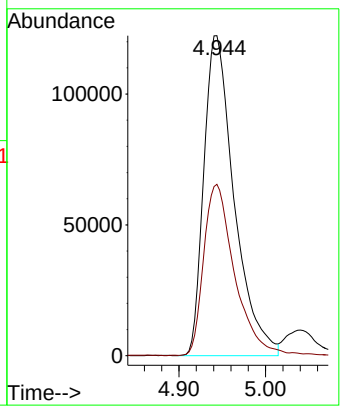


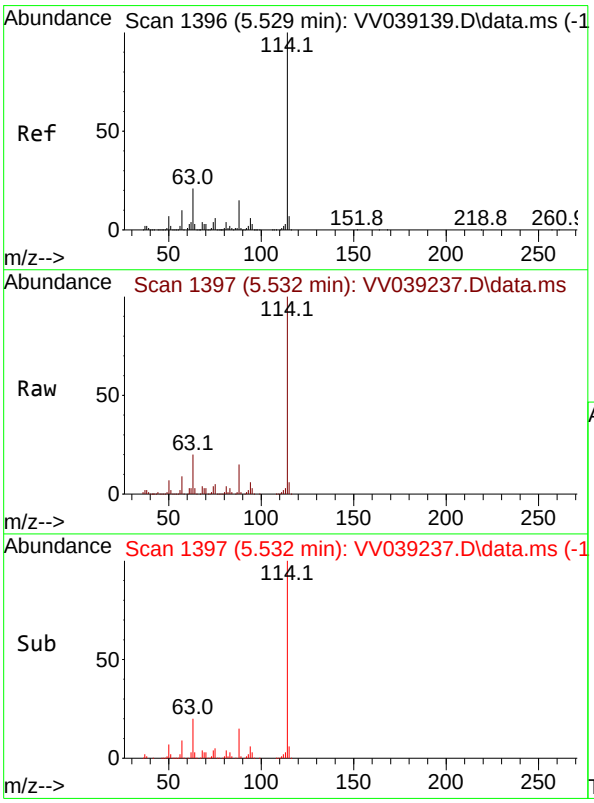

#33
1,2-Dichloroethane-d4
Concen: 41.681 ug/l
RT: 4.944 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion: 65 Resp: 298046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 54.4 | 0.0 | 107.0 |

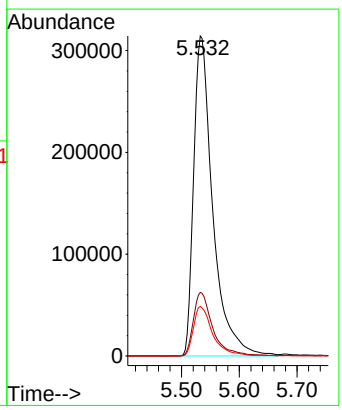


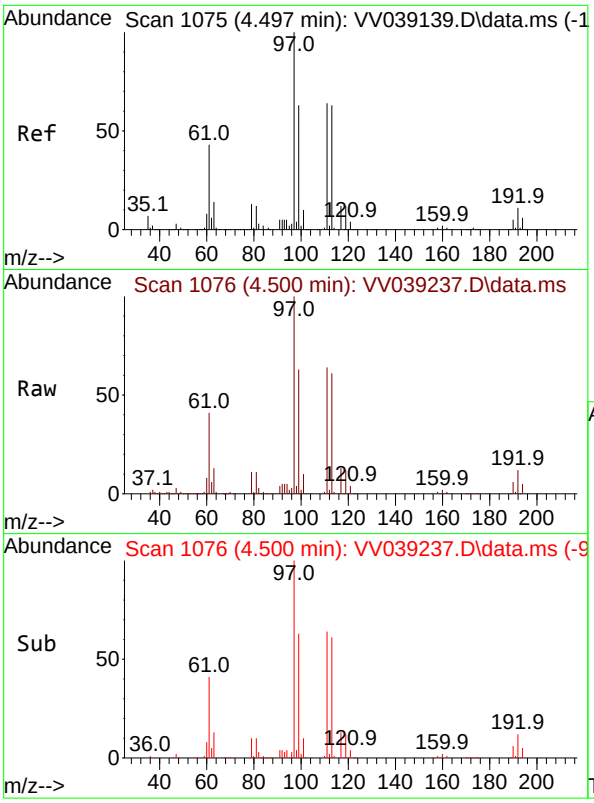




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 1397
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion:114 Resp: 722914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.9 | 0.0 | 42.6 |
| 88 | 15.5 | 0.0 | 30.8 |



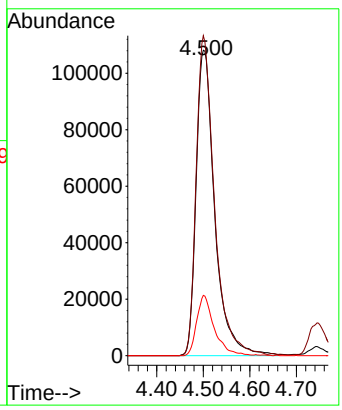


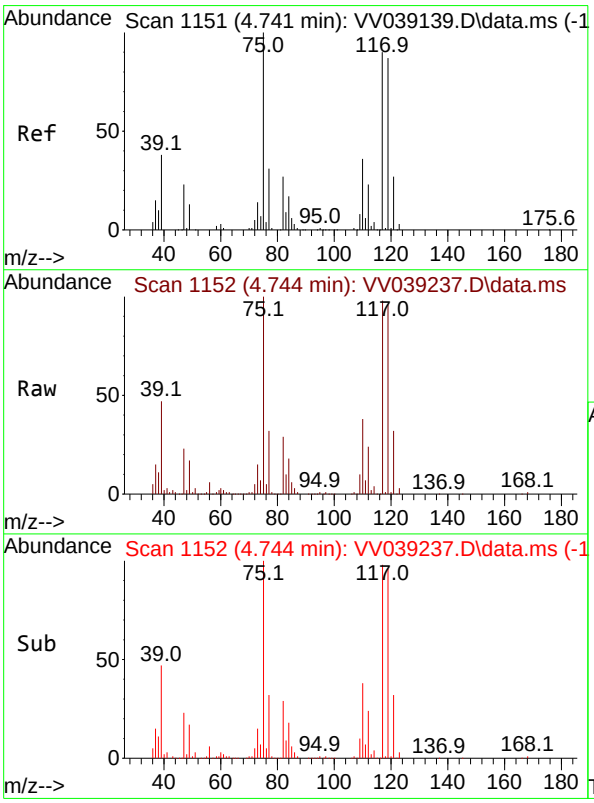

#35
Dibromofluoromethane
Concen: 51.701 ug/l
RT: 4.500 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion:113 Resp: 300465

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.8 | 82.4 | 123.6 |
| 192 | 18.7 | 13.8 | 20.8 |

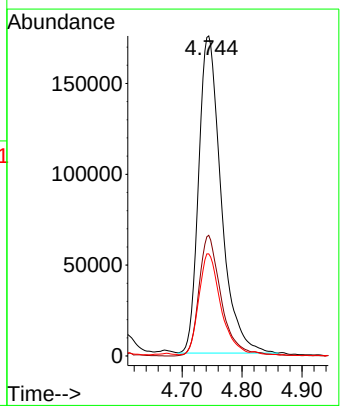


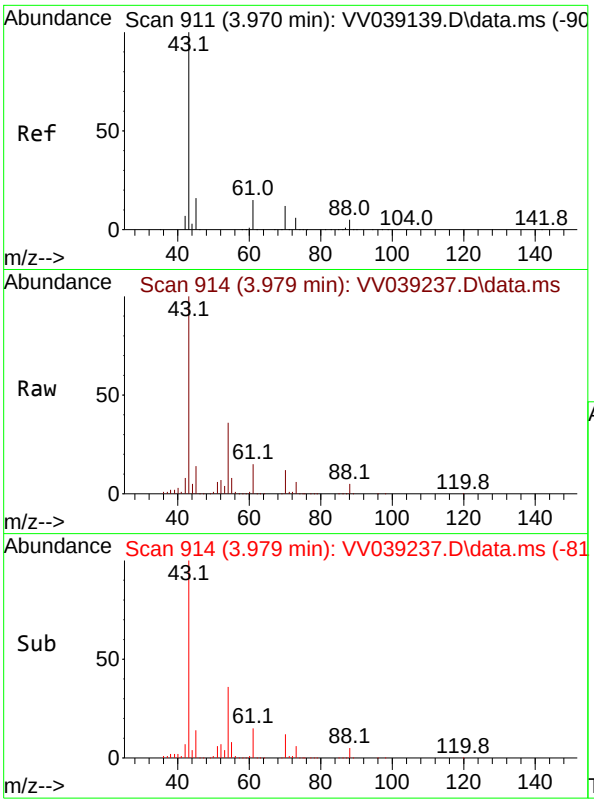




#36
1,1-Dichloropropene
Concen: 51.851 ug/l
RT: 4.744 min Scan# 1152
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 75 Resp: 455596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 38.0 | 18.1 | 54.1 |
| 77 | 30.7 | 24.8 | 37.2 |



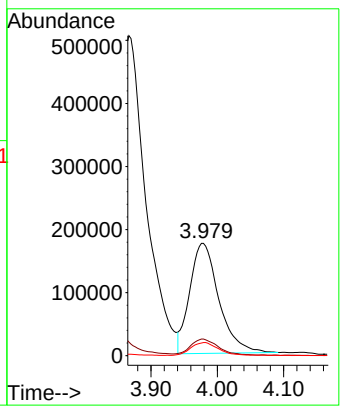


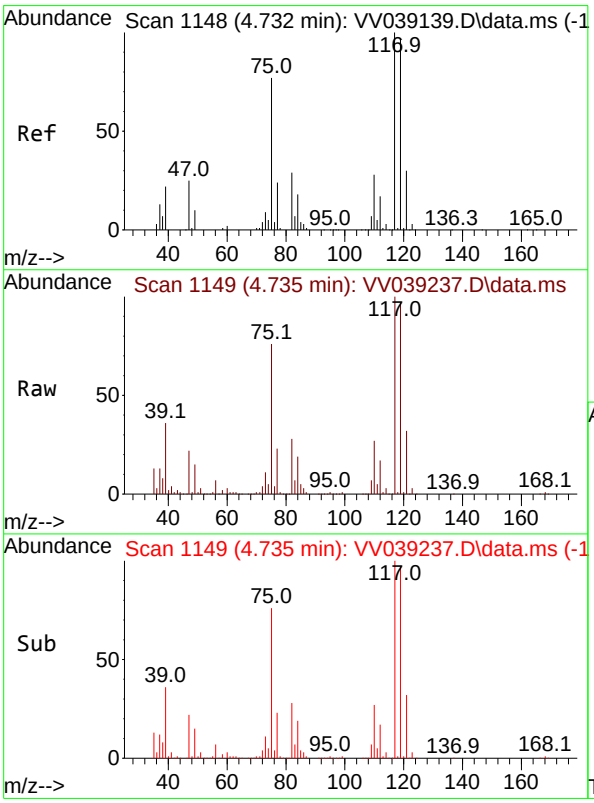

#37
Ethyl Acetate
Concen: 50.028 ug/l
RT: 3.979 min Scan# 91
Delta R.T. 0.009 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion: 43 Resp: 533392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.9 | 10.3 | 15.5 |
| 70 | 10.9 | 8.0 | 12.0 |

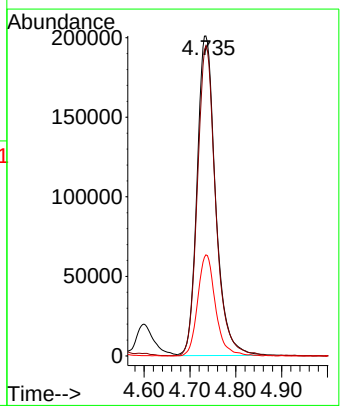


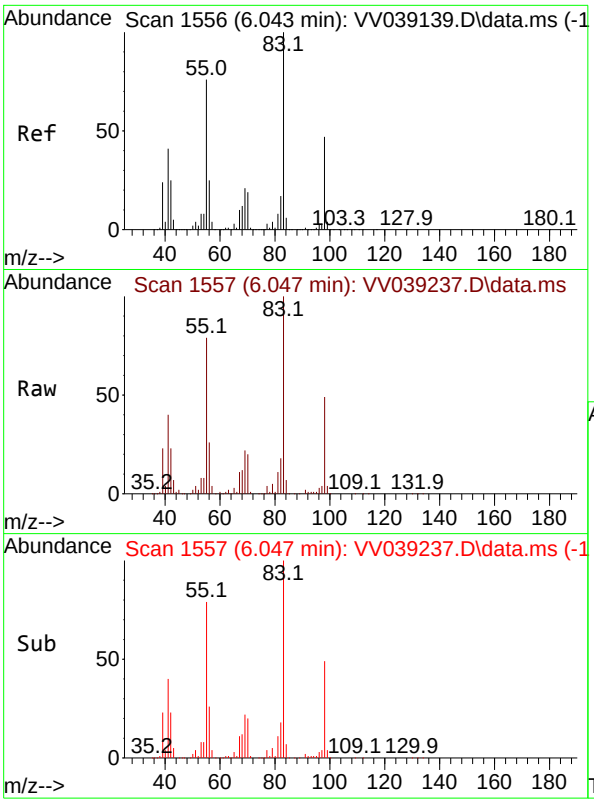




#38
Carbon Tetrachloride
Concen: 52.275 ug/l
RT: 4.735 min Scan# 1149
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion:117 Resp: 561360

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 96.9 | 77.2 | 115.8 |
| 121 | 31.7 | 24.2 | 36.2 |



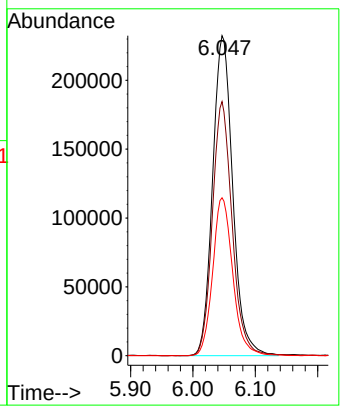


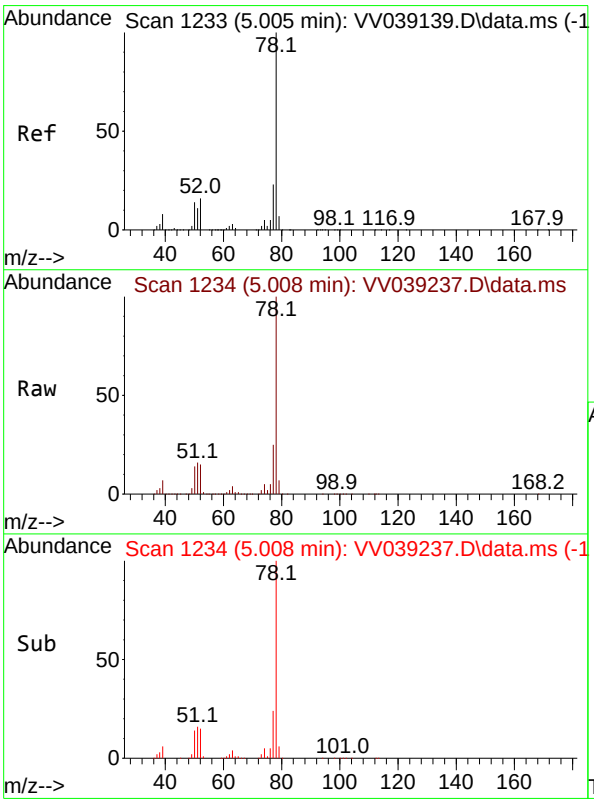

#39
Methylcyclohexane
Concen: 49.102 ug/l
RT: 6.047 min Scan# 1
Delta R.T. 0.004 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion: 83 Resp: 521023

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 79.4 | 60.5 | 90.7 |
| 98 | 49.3 | 37.8 | 56.6 |

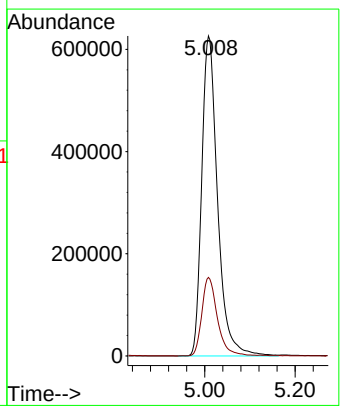


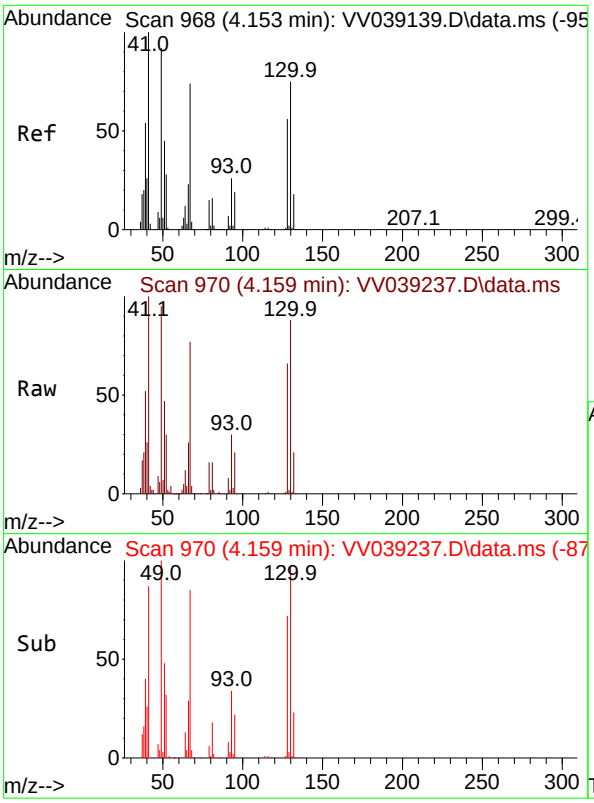




#40
Benzene
Concen: 53.221 ug/l
RT: 5.008 min Scan# 1234
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 78 Resp: 1522784

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.5 | 18.7 | 28.1 |



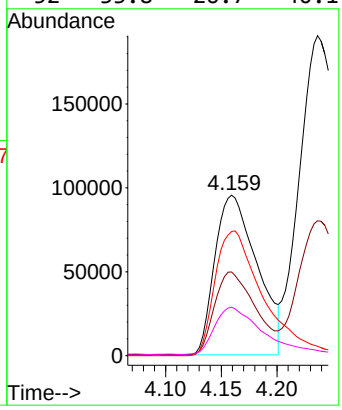


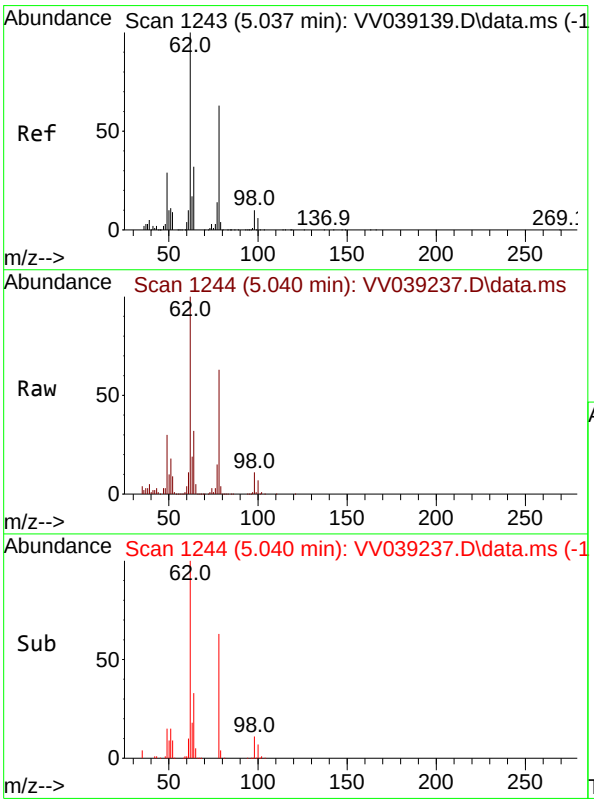

#41
Methacrylonitrile
Concen: 52.000 ug/l
RT: 4.159 min Scan# 9
Delta R.T. 0.006 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion: 41 Resp: 251054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 50.9 | 42.2 | 63.2 |
| 67 | 92.1 | 67.9 | 101.9 |
| 52 | 33.8 | 26.7 | 40.1 |

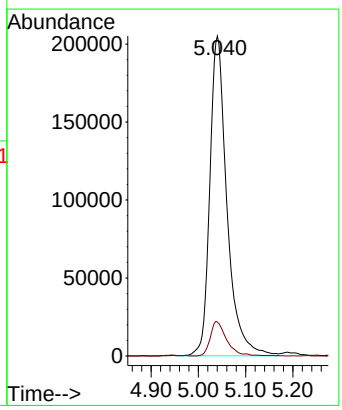


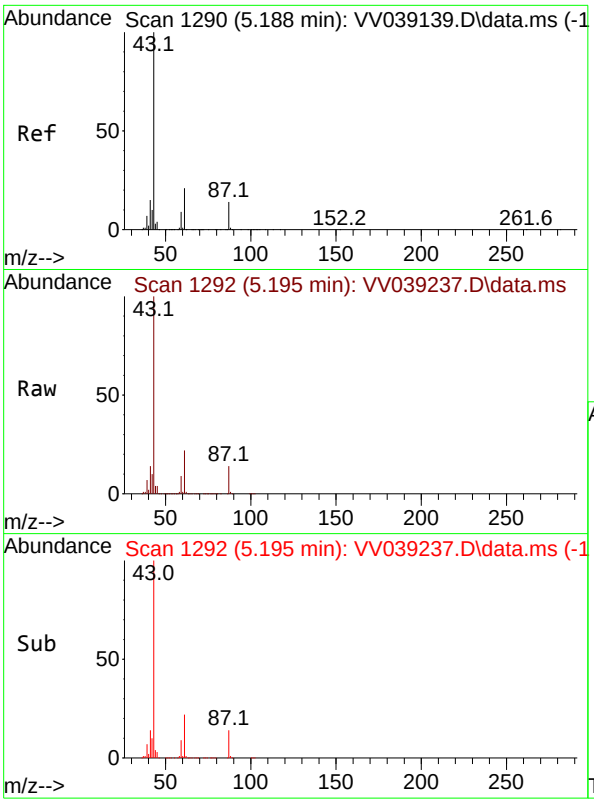




#42
1,2-Dichloroethane
Concen: 51.551 ug/l
RT: 5.040 min Scan# 1244
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 62 Resp: 516822

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.2 | 0.0 | 19.2 |



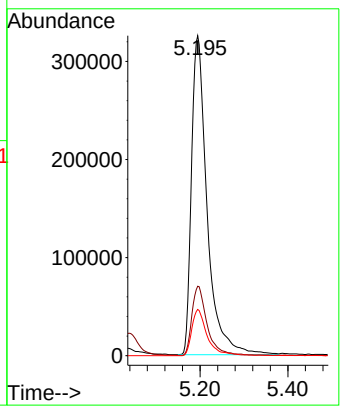


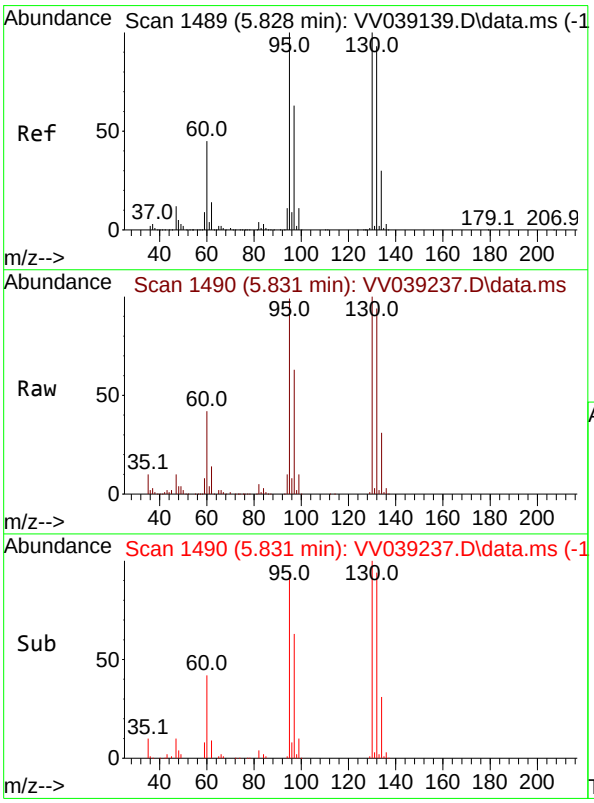

#43
Isopropyl Acetate
Concen: 55.271 ug/l
RT: 5.195 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion: 43 Resp: 803487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 21.0 | 15.9 | 23.9 |
| 87 | 14.1 | 11.0 | 16.6 |

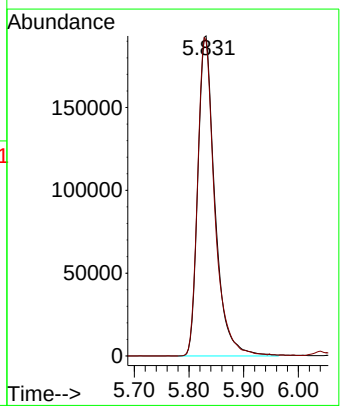


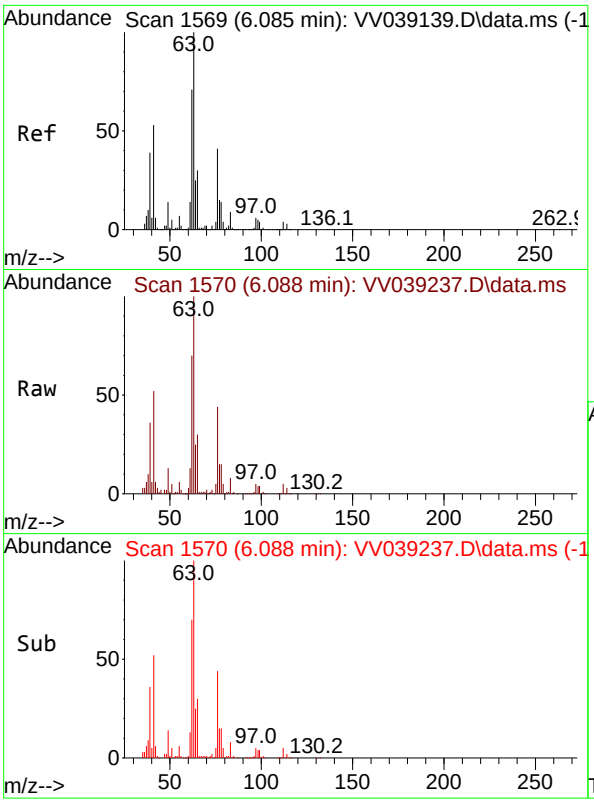




#44
Trichloroethene
Concen: 63.243 ug/l
RT: 5.831 min Scan# 1490
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion:130 Resp: 417556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 98.7 | 0.0 | 199.2 |



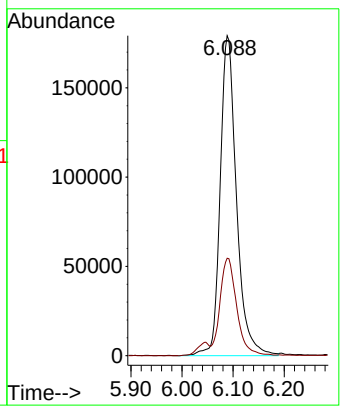


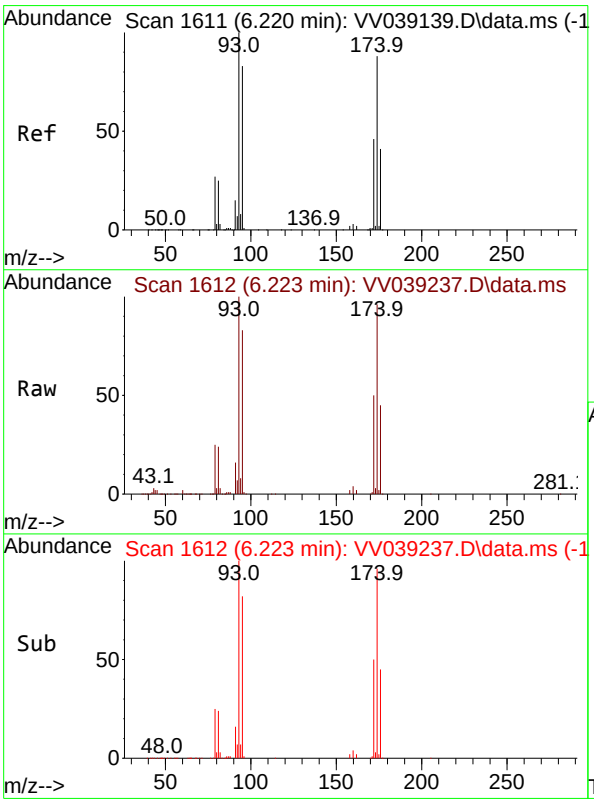

#45
1,2-Dichloropropane
Concen: 55.758 ug/l
RT: 6.088 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion: 63 Resp: 396539

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.4 | 23.7 | 35.5 |

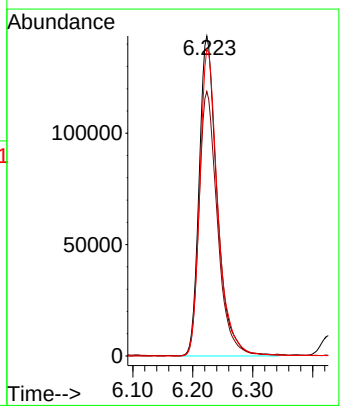


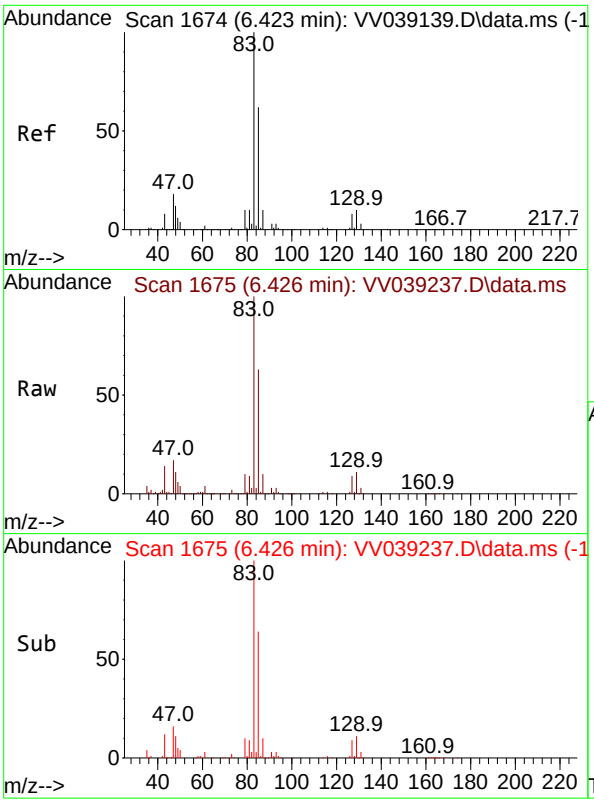




#46
Dibromomethane
Concen: 55.239 ug/l
RT: 6.223 min Scan# 1612
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 93 Resp: 300681

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 83.9 | 65.5 | 98.3 |
| 174 | 96.2 | 69.0 | 103.4 |



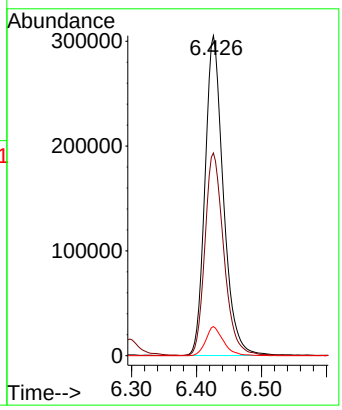


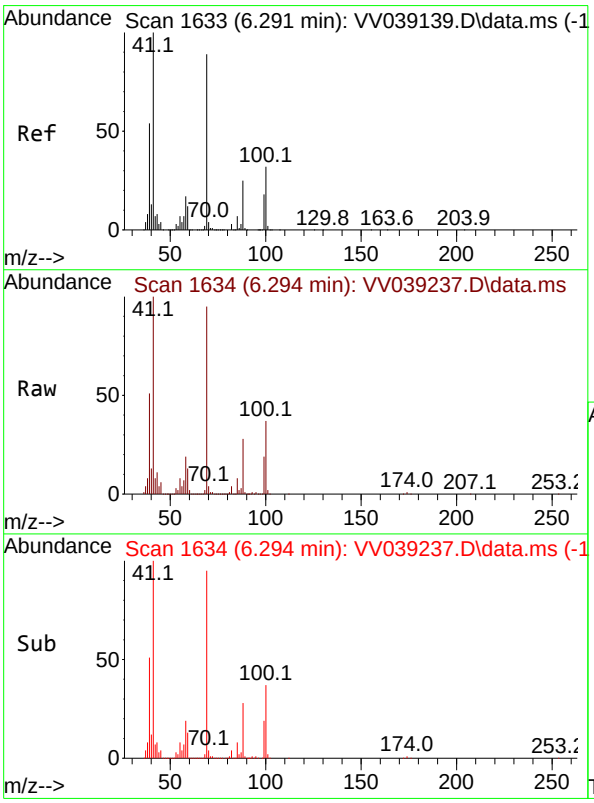

#47
Bromodichloromethane
Concen: 53.355 ug/l
RT: 6.426 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion: 83 Resp: 600401

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.2 | 49.7 | 74.5 |
| 127 | 9.1 | 6.6 | 9.8 |

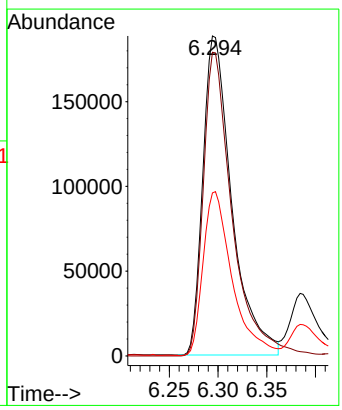


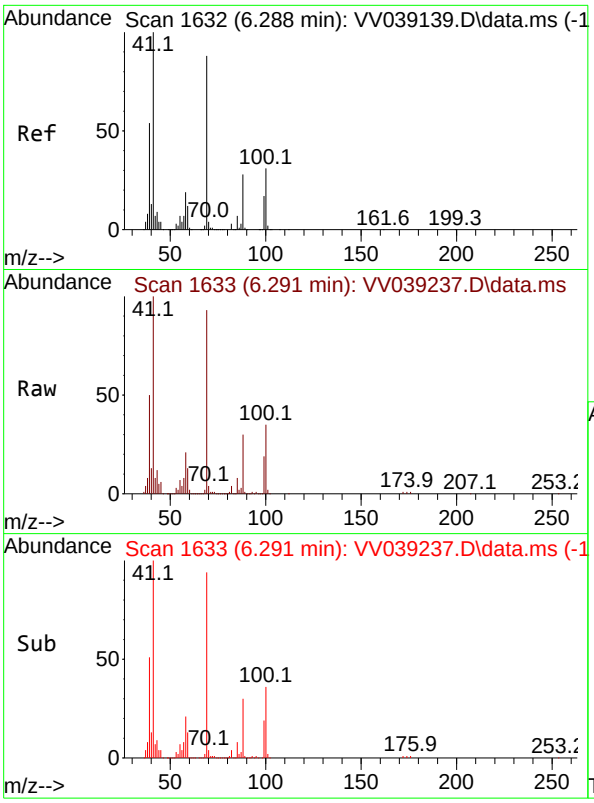




#48
Methyl methacrylate
Concen: 59.056 ug/l
RT: 6.294 min Scan# 1634
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 41 Resp: 389168

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 95.3 | 72.4 | 108.6 |
| 39 | 51.3 | 42.5 | 63.7 |



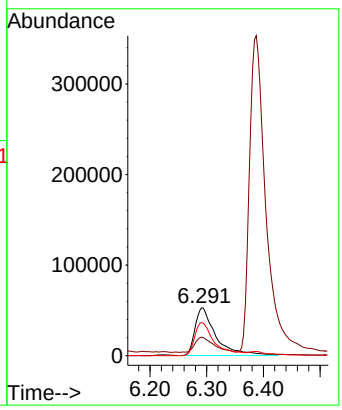


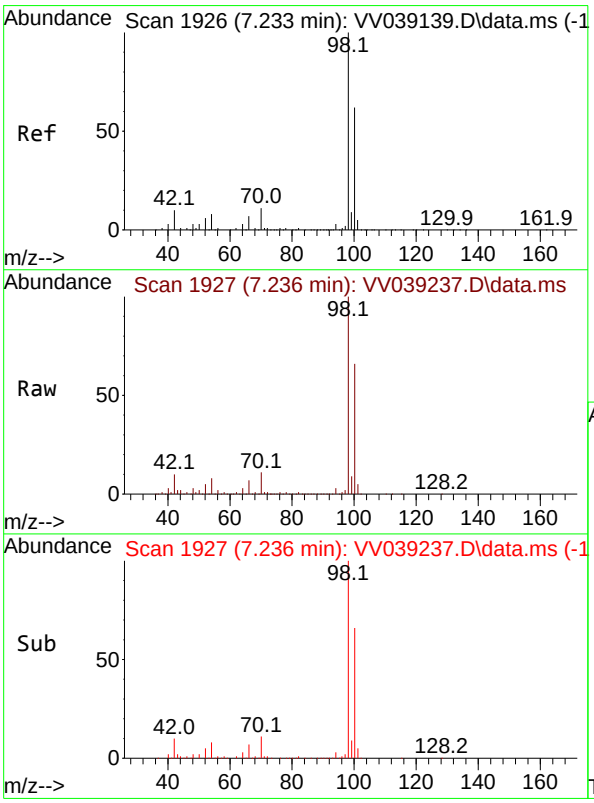

#49
1,4-Dioxane
Concen: 1265.383 ug/l
RT: 6.291 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion: 88 Resp: 134567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 27.3 | 25.1 | 37.7 |
| 58 | 66.1 | 53.6 | 80.4 |

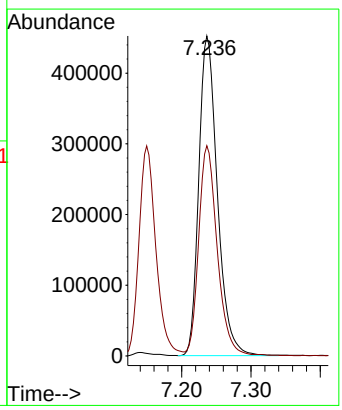


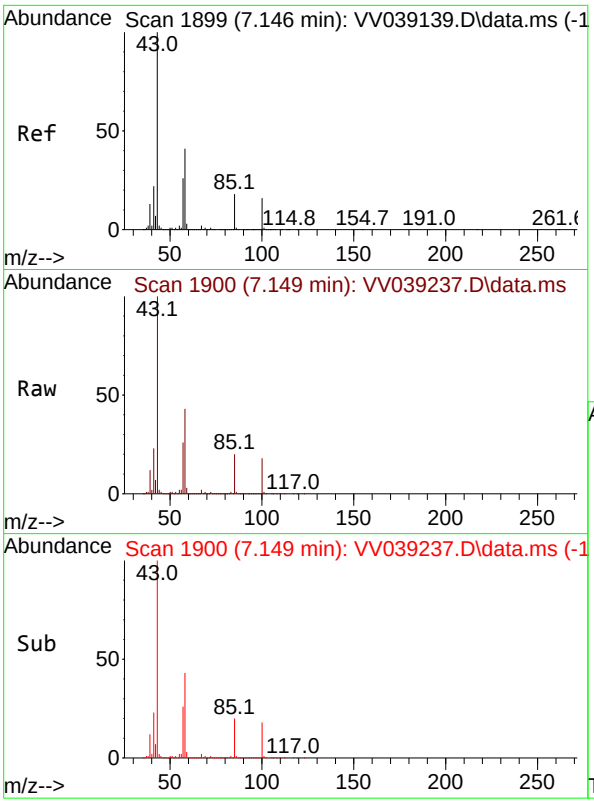




#50
Toluene-d8
Concen: 49.271 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 98 Resp: 841006

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.7 | 52.2 | 78.2 |



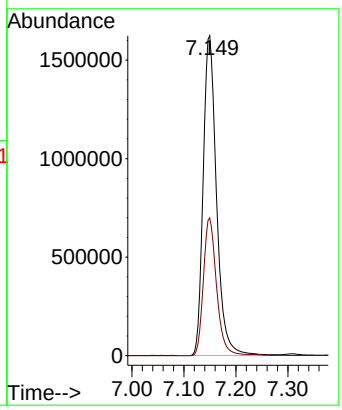


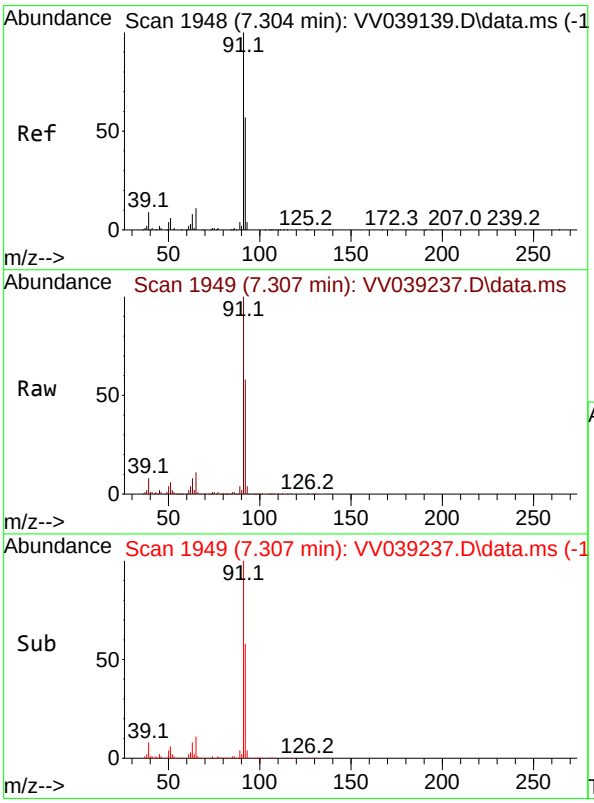

#51
4-Methyl-2-Pentanone
Concen: 303.149 ug/l
RT: 7.149 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion: 43 Resp: 2899248

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 42.3 | 32.3 | 48.5 |

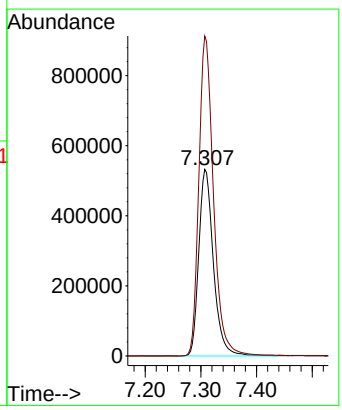


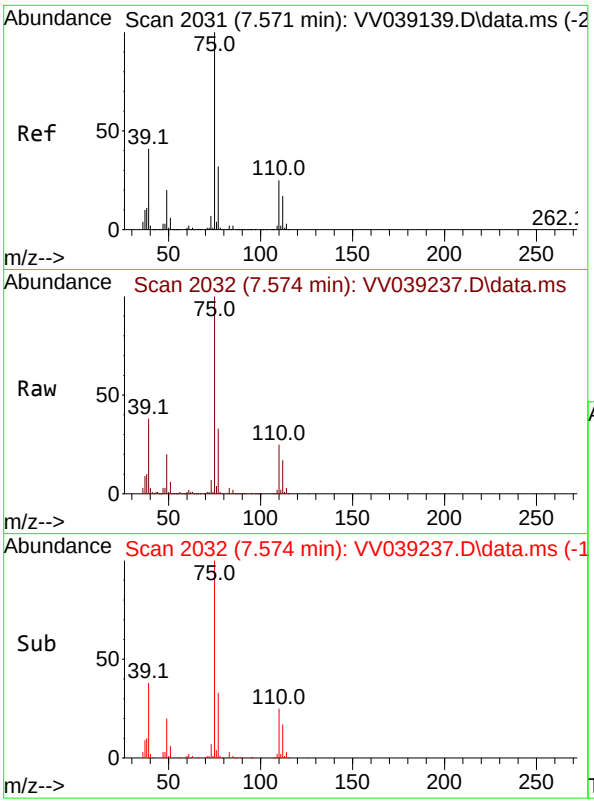




#52
Toluene
Concen: 58.584 ug/l
RT: 7.307 min Scan# 1949
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 92 Resp: 971887

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 171.7 | 139.2 | 208.8 |



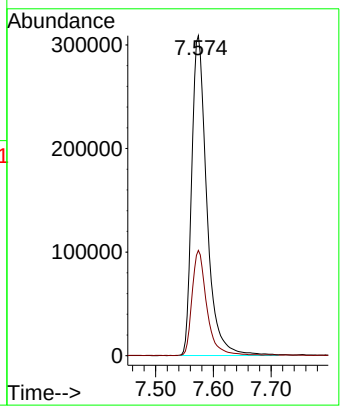


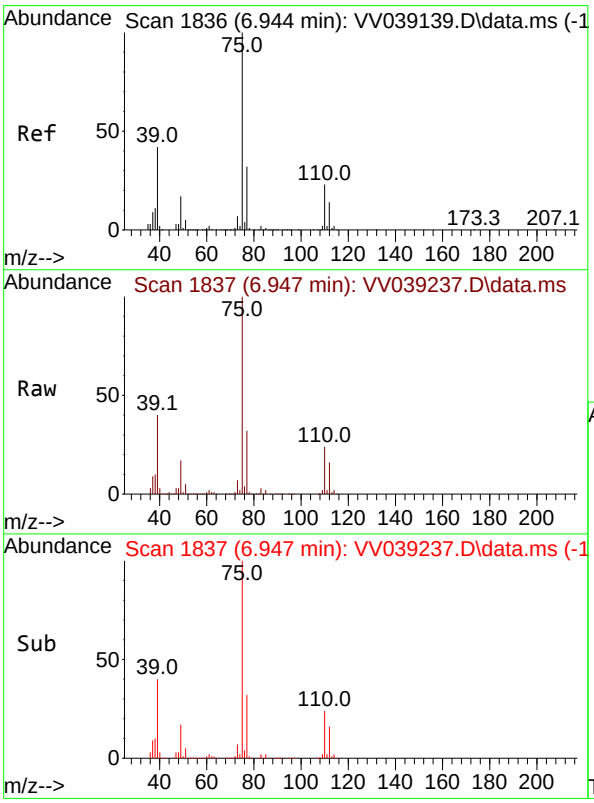

#53
t-1,3-Dichloropropene
Concen: 57.011 ug/l
RT: 7.574 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion: 75 Resp: 559095

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.8 | 25.9 | 38.9 |

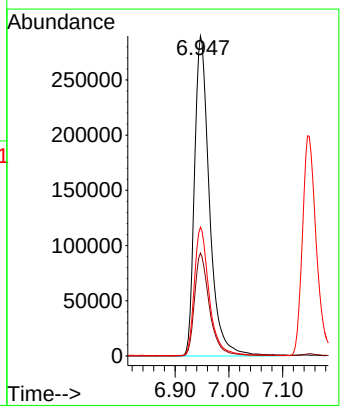


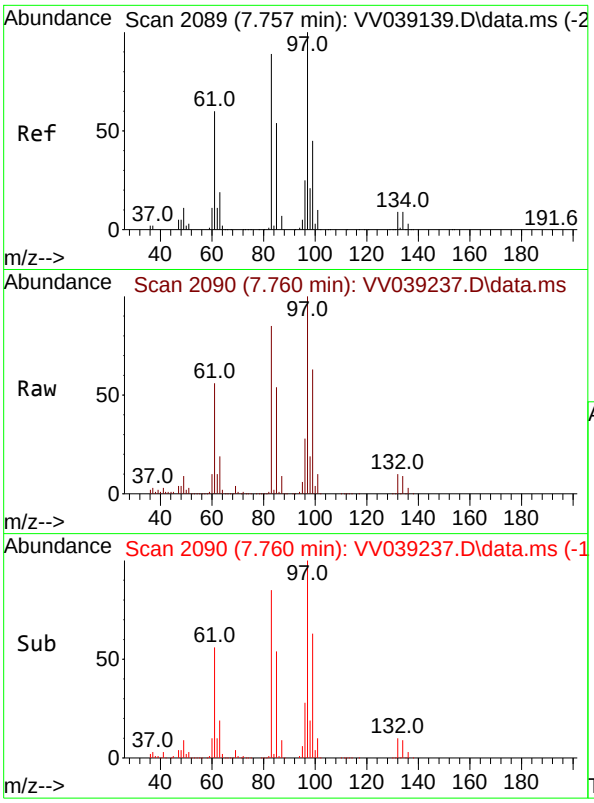




#54
cis-1,3-Dichloropropene
Concen: 51.725 ug/l
RT: 6.947 min Scan# 1837
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 75 Resp: 559990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.1 | 25.5 | 38.3 |
| 39 | 40.1 | 33.8 | 50.6 |



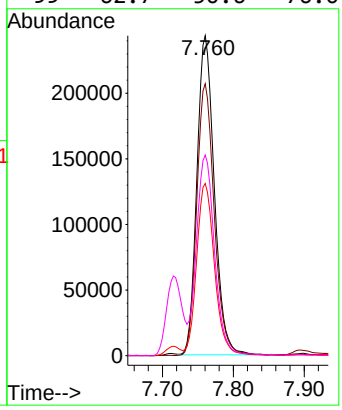


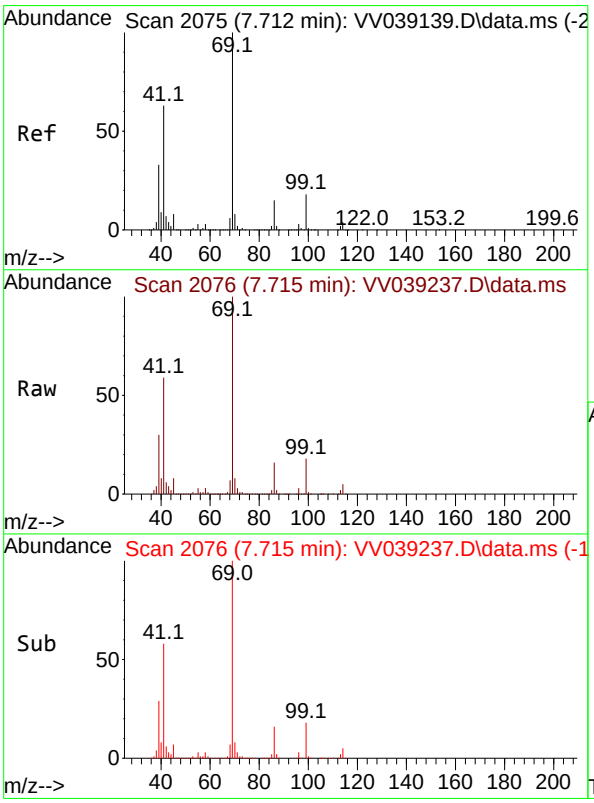

#55
1,1,2-Trichloroethane
Concen: 55.730 ug/l
RT: 7.760 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion: 97 Resp: 414549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 85.1 | 71.1 | 106.7 |
| 85 | 53.8 | 44.6 | 67.0 |
| 99 | 62.7 | 50.6 | 76.0 |

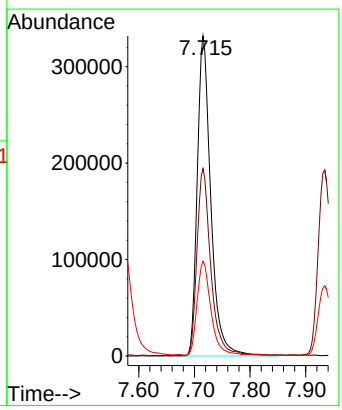


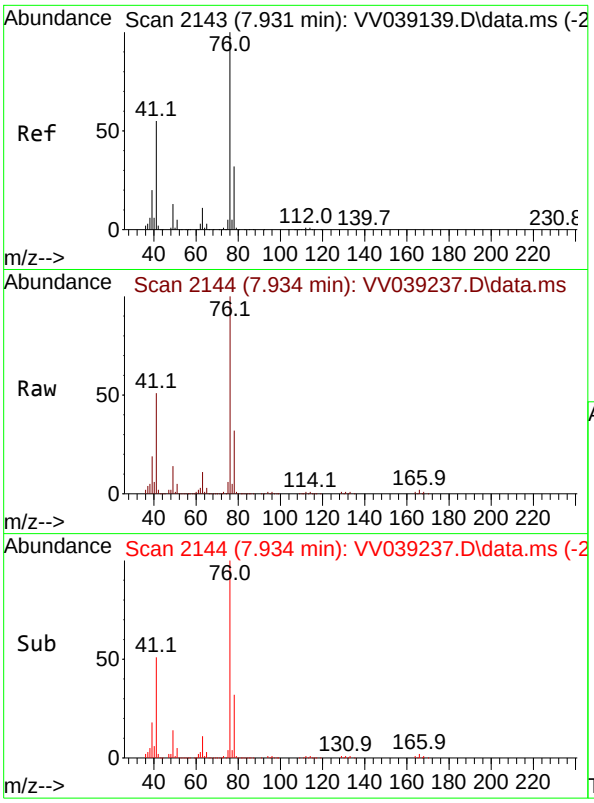




#56
Ethyl methacrylate
Concen: 63.672 ug/l
RT: 7.715 min Scan# 2076
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 69 Resp: 562462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 59.5 | 50.7 | 76.1 |
| 39 | 29.6 | 26.0 | 39.0 |



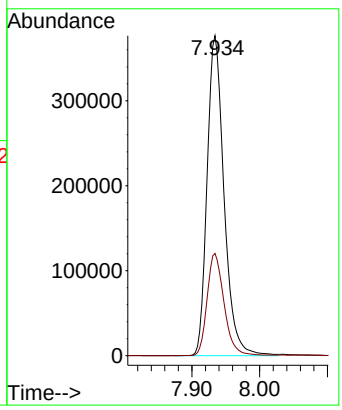


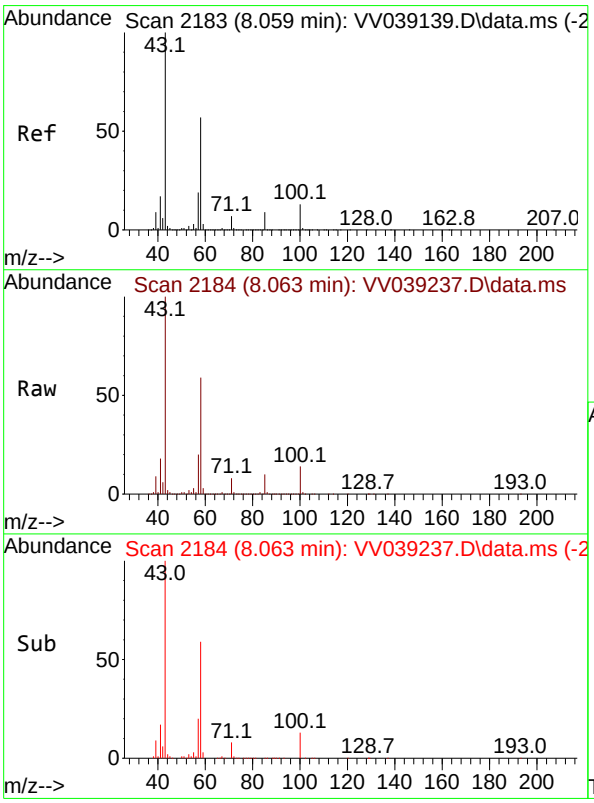

#57
1,3-Dichloropropane
Concen: 55.659 ug/l
RT: 7.934 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion: 76 Resp: 653401

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 31.9 | 26.1 | 39.1 |

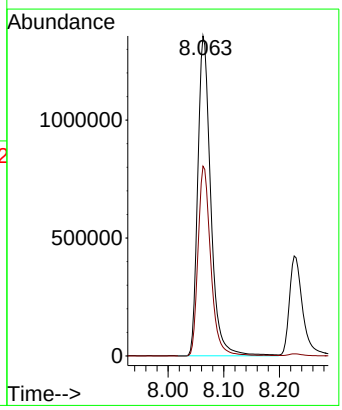


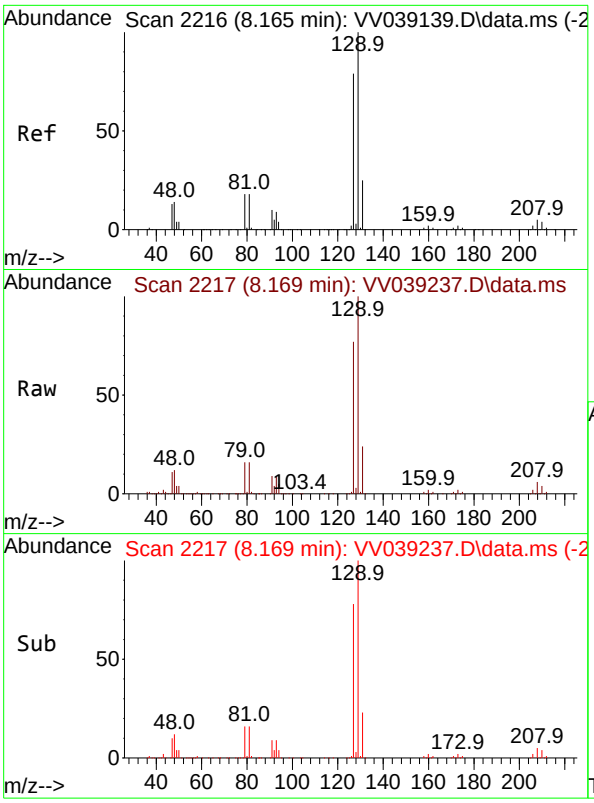




#59
2-Hexanone
Concen: 283.389 ug/l
RT: 8.063 min Scan# 2184
Delta R.T. 0.004 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 43 Resp: 2190138

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 58.4 | 28.3 | 85.0 |



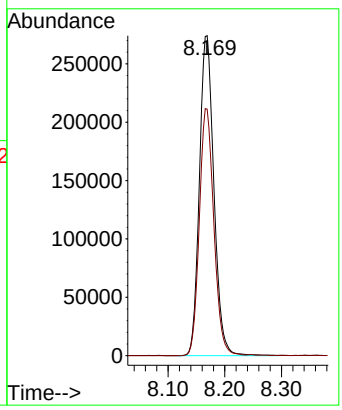


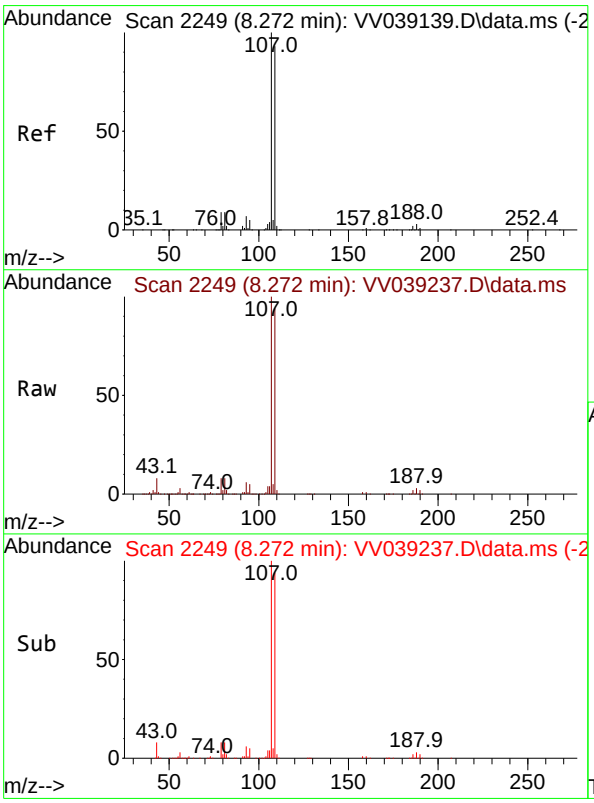

#60
Dibromochloromethane
Concen: 57.553 ug/l
RT: 8.169 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion:129 Resp: 487809

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.3 | 39.3 | 117.9 |

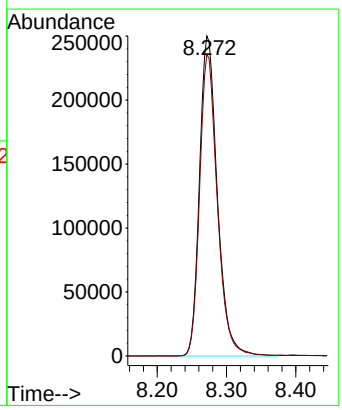


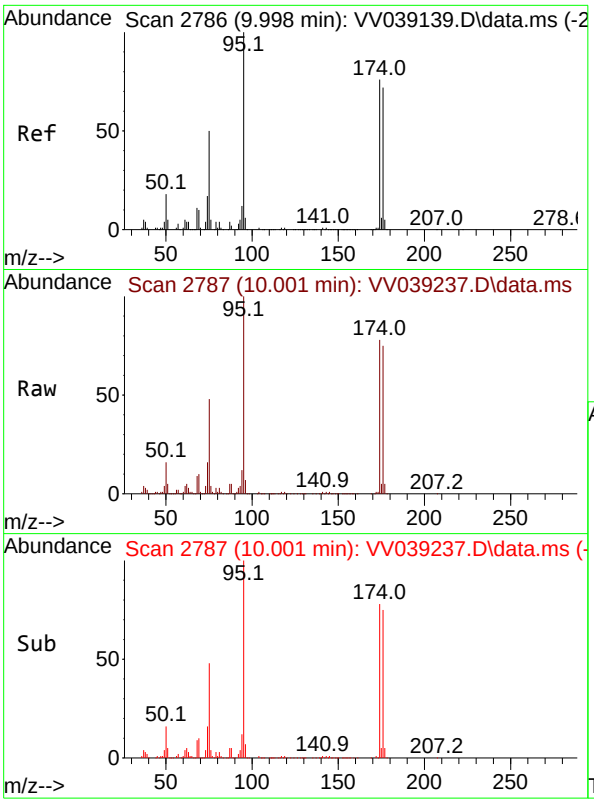




#61
1,2-Dibromoethane
Concen: 58.729 ug/l
RT: 8.272 min Scan# 2249
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion:107 Resp: 446765

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.4 | 74.6 | 112.0 |



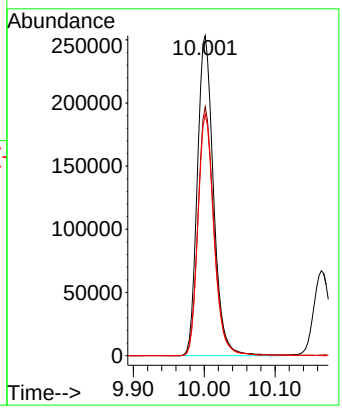


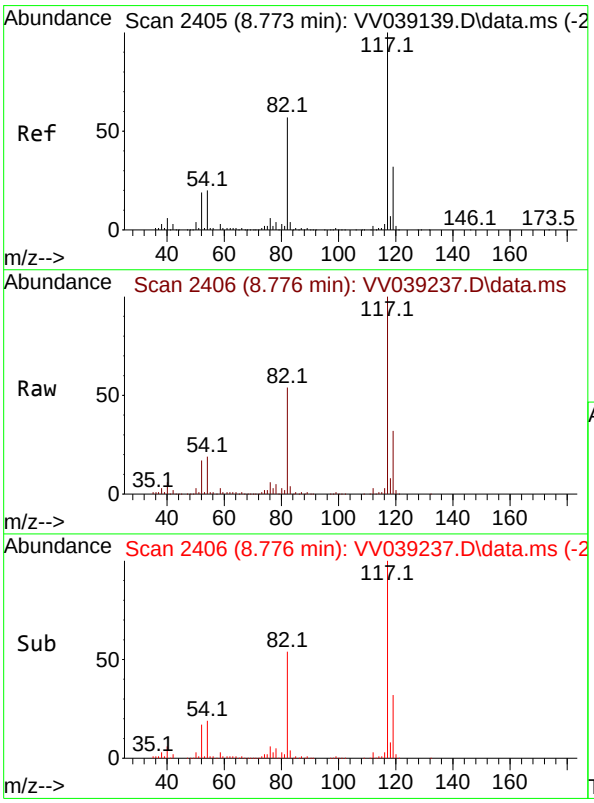

#62
4-Bromofluorobenzene
Concen: 57.067 ug/l
RT: 10.001 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion: 95 Resp: 400996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 77.2 | 0.0 | 150.4 |
| 176 | 74.4 | 0.0 | 144.2 |

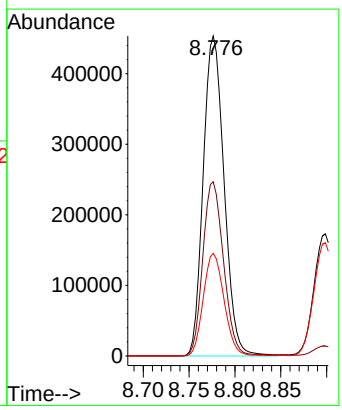


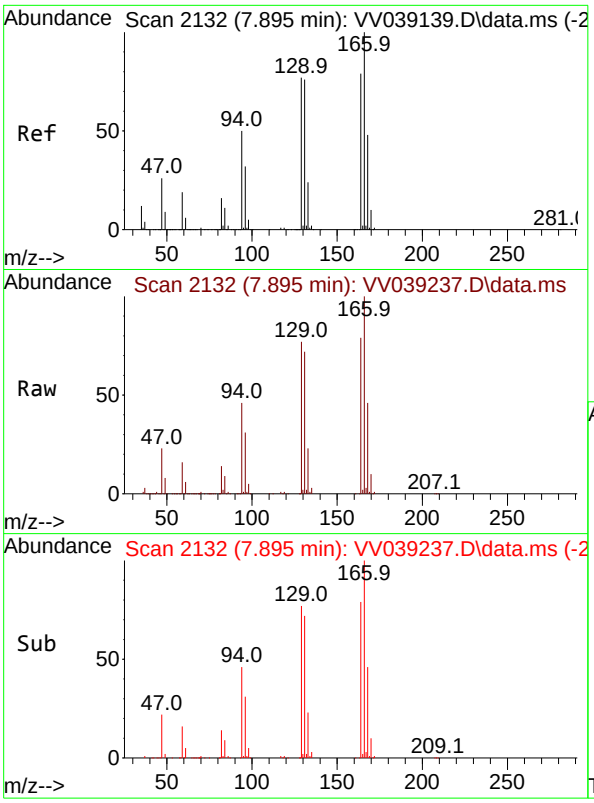




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion:117 Resp: 717971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.4 | 45.4 | 68.2 |
| 119 | 32.1 | 25.6 | 38.4 |



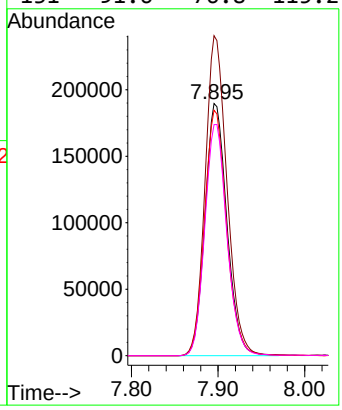


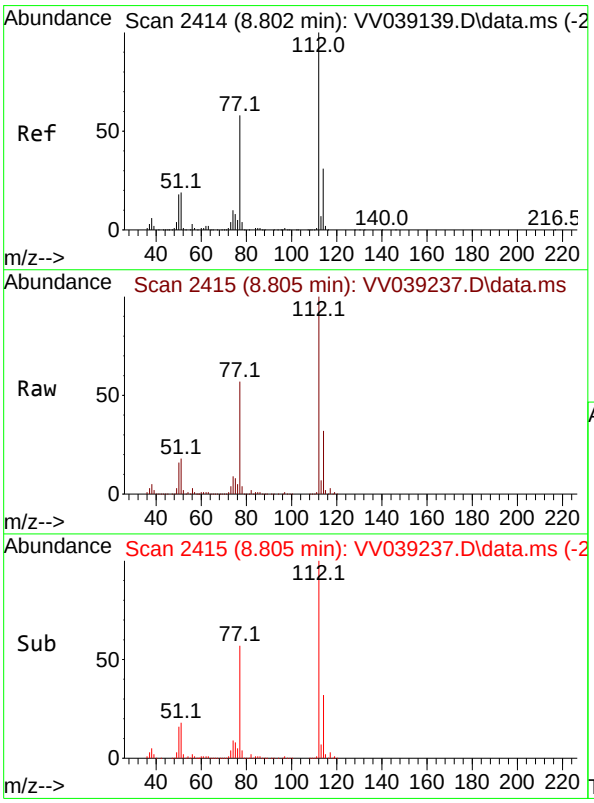

#64
Tetrachloroethene
Concen: 55.385 ug/l
RT: 7.895 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion:164 Resp: 333065

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 126.9 | 101.6 | 152.4 |
| 129 | 97.4 | 78.5 | 117.7 |
| 131 | 91.6 | 76.8 | 115.2 |

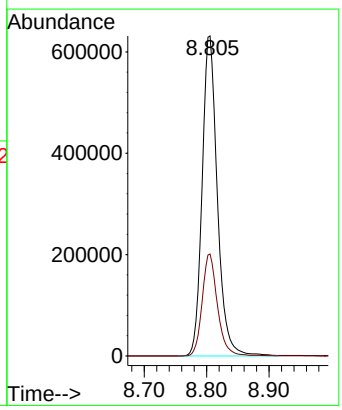


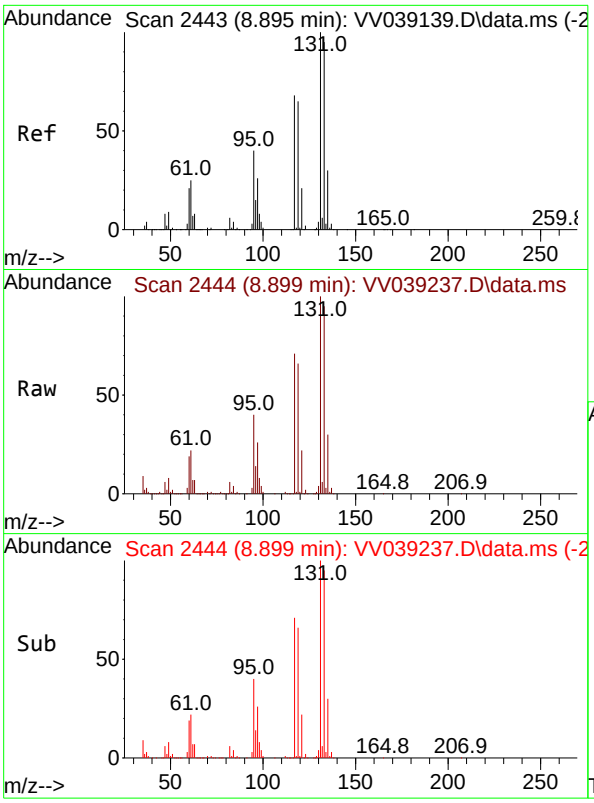




#65
Chlorobenzene
Concen: 53.614 ug/l
RT: 8.805 min Scan# 2415
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion:112 Resp: 1072211

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.9 | 24.6 | 37.0 |



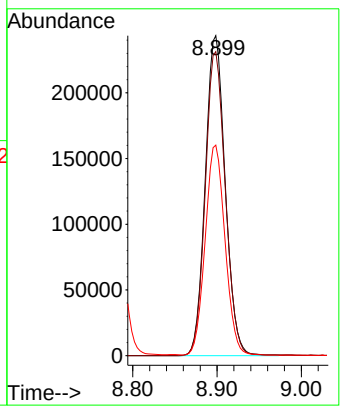


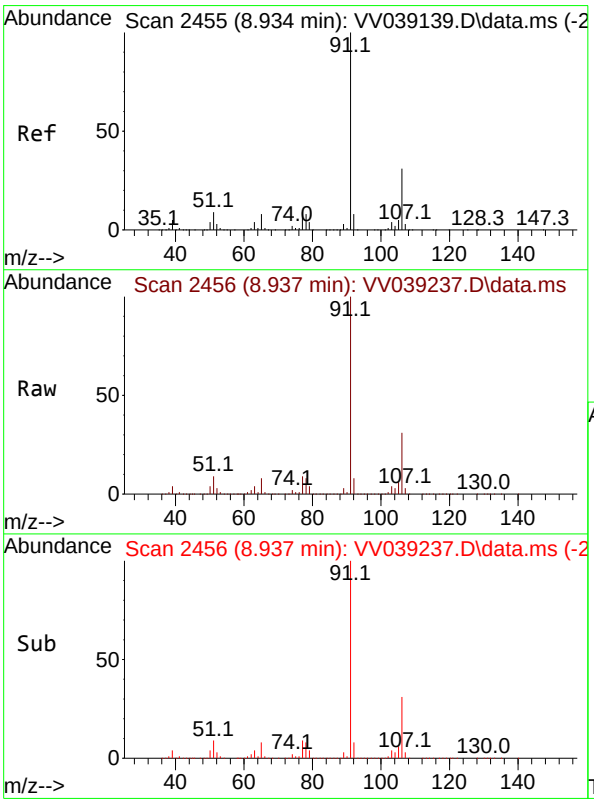

#66
1,1,1,2-Tetrachloroethane
Concen: 55.549 ug/l
RT: 8.899 min Scan# 24
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion:131 Resp: 401399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.4 | 47.3 | 141.8 |
| 119 | 65.4 | 33.3 | 99.8 |

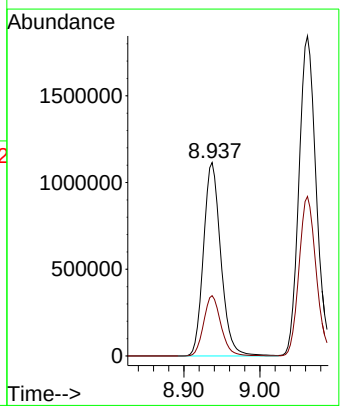


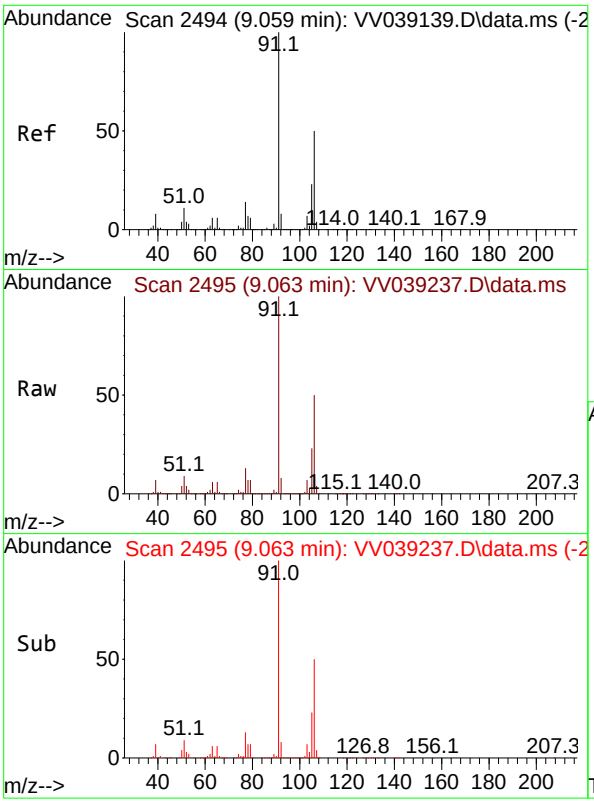




#67
Ethyl Benzene
Concen: 58.400 ug/l
RT: 8.937 min Scan# 2456
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 91 Resp: 1767918

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.2 | 24.6 | 37.0 |



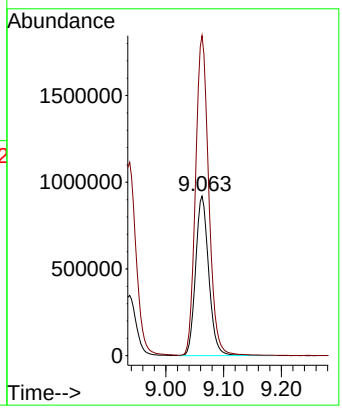


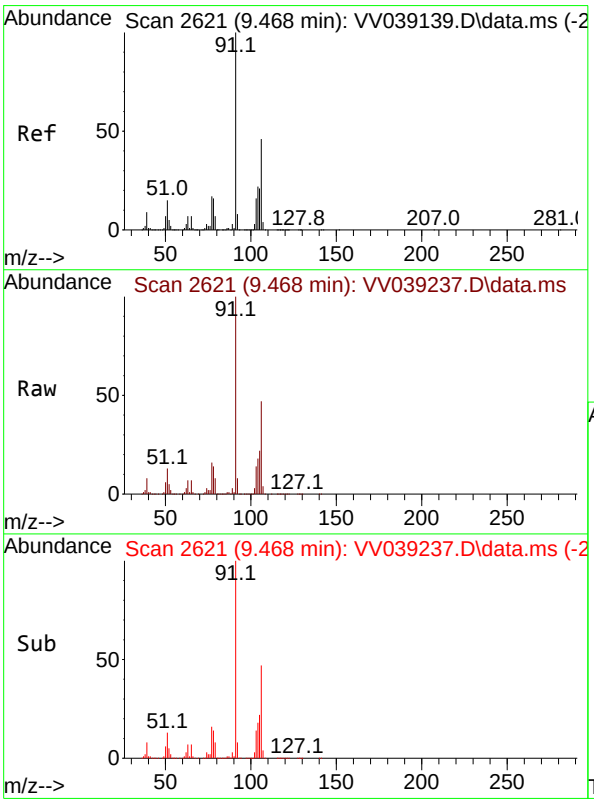

#68
m/p-Xylenes
Concen: 124.490 ug/l
RT: 9.063 min Scan# 24
Delta R.T. 0.004 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion:106 Resp: 1454532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 200.6 | 162.5 | 243.7 |

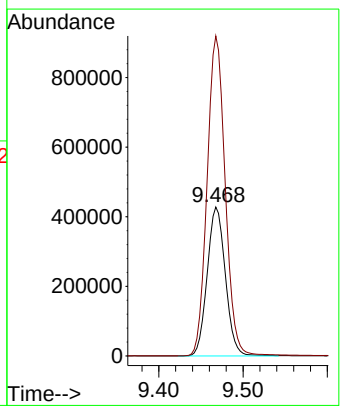


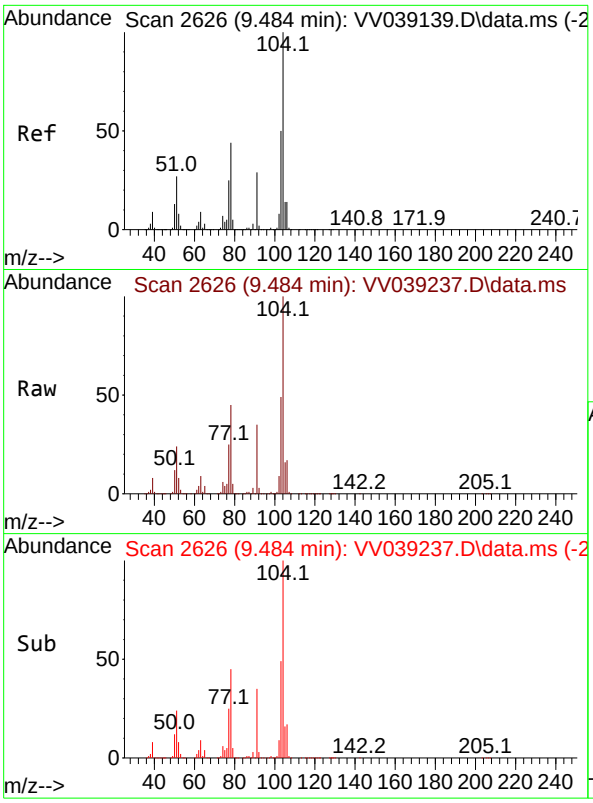




#69
o-Xylene
Concen: 62.089 ug/l
RT: 9.468 min Scan# 2621
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion:106 Resp: 642334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 214.1 | 109.1 | 327.3 |



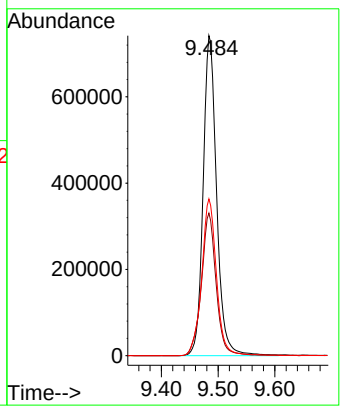


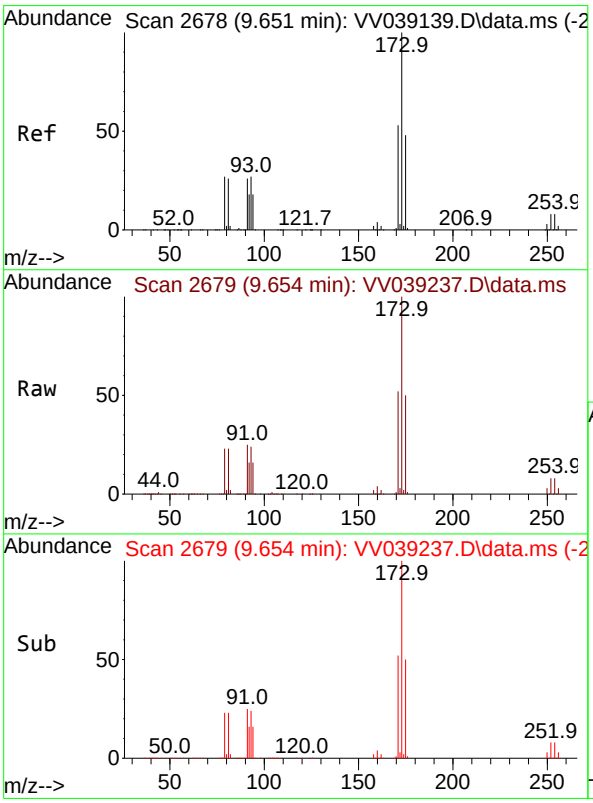

#70
Styrene
Concen: 55.861 ug/l
RT: 9.484 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion:104 Resp: 1227294

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 48.7 | 39.8 | 59.6 |
| 103 | 53.4 | 43.4 | 65.2 |

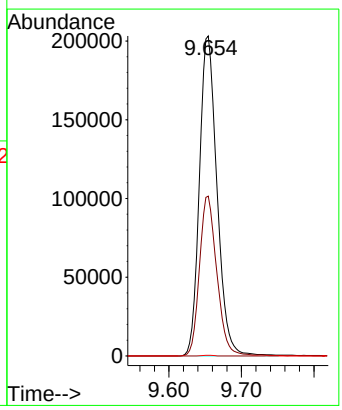


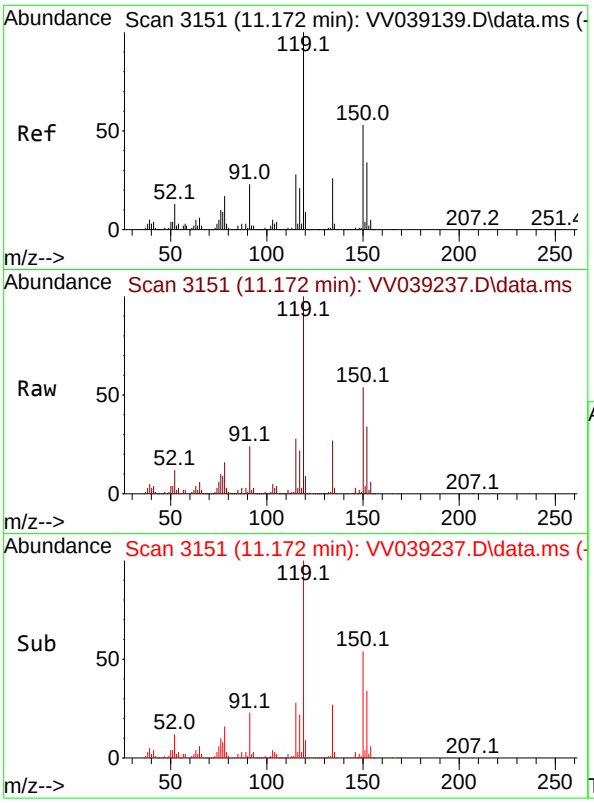




#71
Bromoform
Concen: 60.678 ug/l
RT: 9.654 min Scan# 2679
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion:173 Resp: 342488

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.1 | 23.9 | 71.7 |
| 254 | 0.1 | 0.1 | 0.1# |



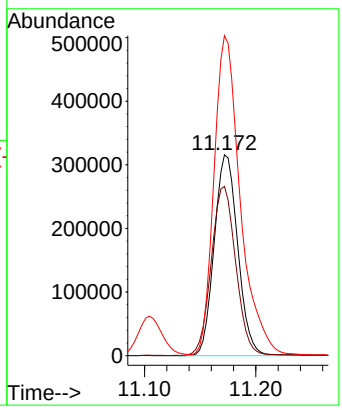


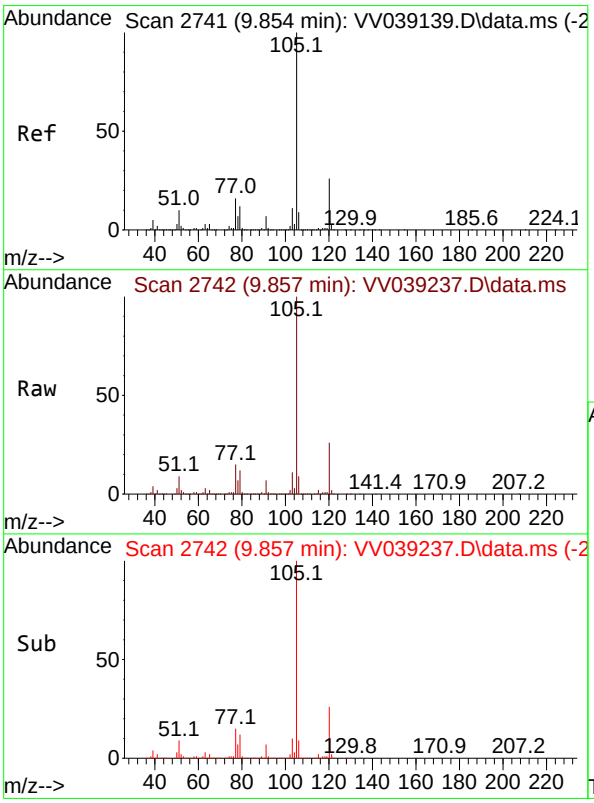

#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion:152 Resp: 463779

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 87.6 | 44.8 | 134.4 |
| 150 | 178.9 | 0.0 | 353.8 |

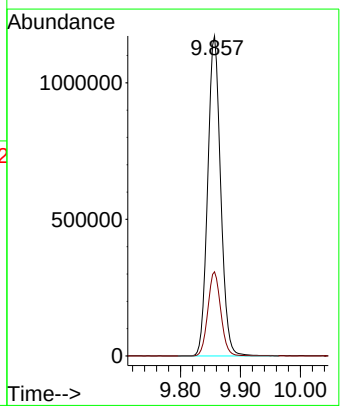


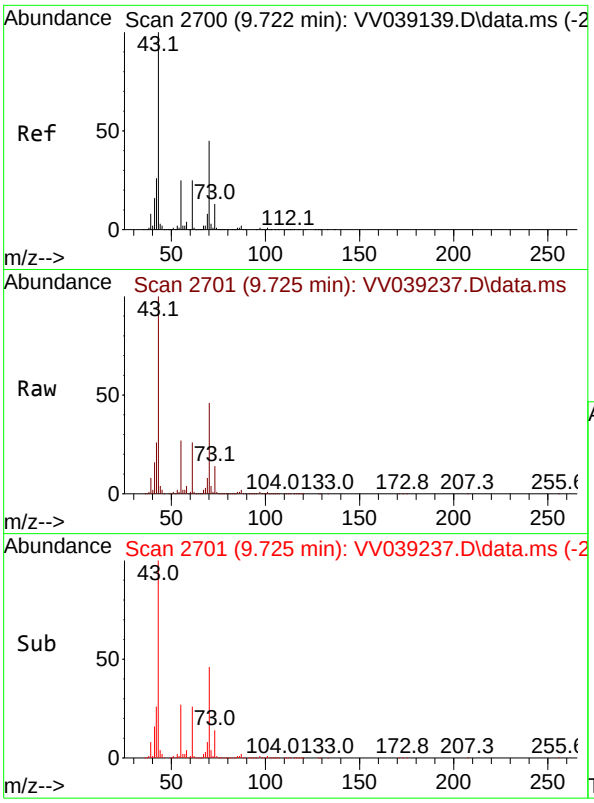




#73
Isopropylbenzene
Concen: 52.393 ug/l
RT: 9.857 min Scan# 2742
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion:105 Resp: 1762396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.3 | 13.1 | 39.1 |



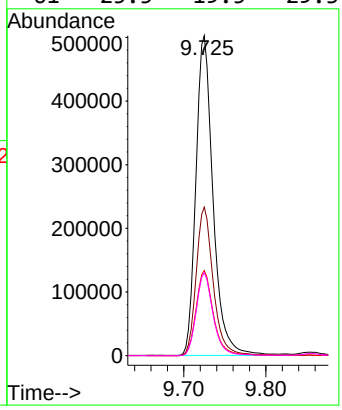


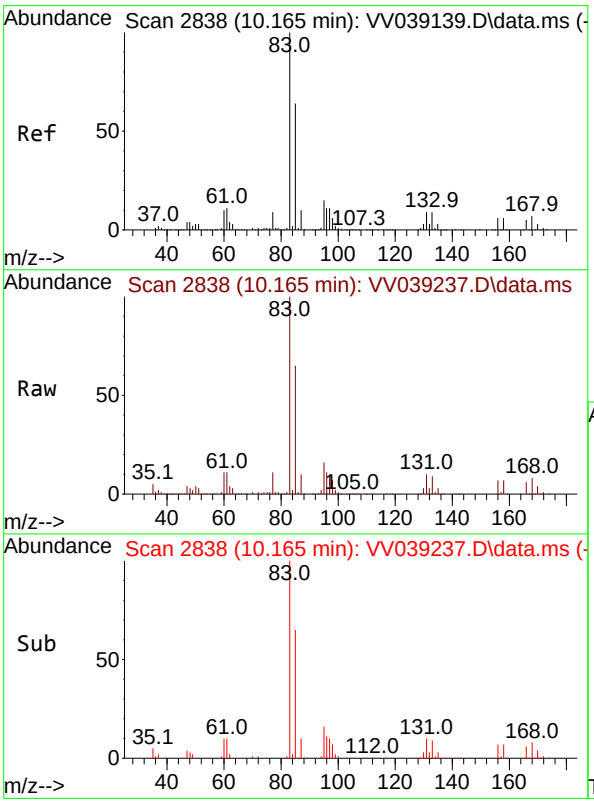

#74
N-amyl acetate
Concen: 54.489 ug/l
RT: 9.725 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion: 43 Resp: 731113

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 46.3 | 35.4 | 53.0 |
| 55 | 27.0 | 20.6 | 30.8 |
| 61 | 25.5 | 19.5 | 29.3 |

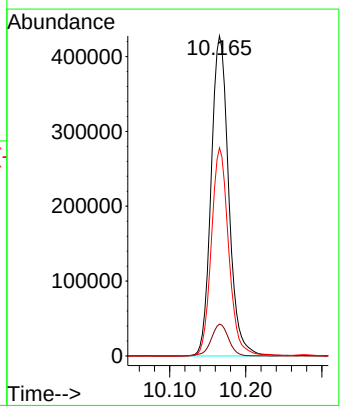


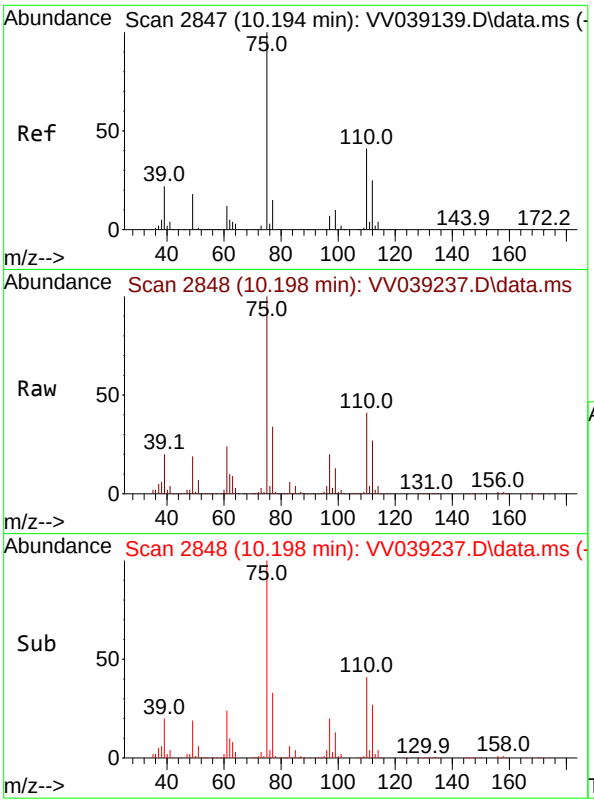




#75
1,1,2,2-Tetrachloroethane
Concen: 46.515 ug/l
RT: 10.165 min Scan# 2838
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 83 Resp: 685568

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.9 | 4.5 | 13.7 |
| 85 | 64.3 | 31.9 | 95.9 |



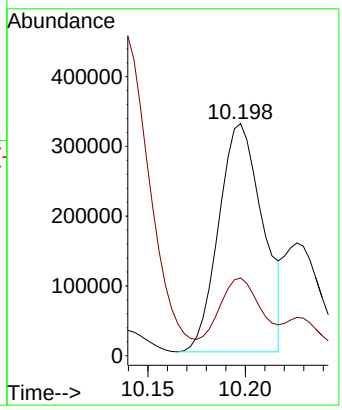


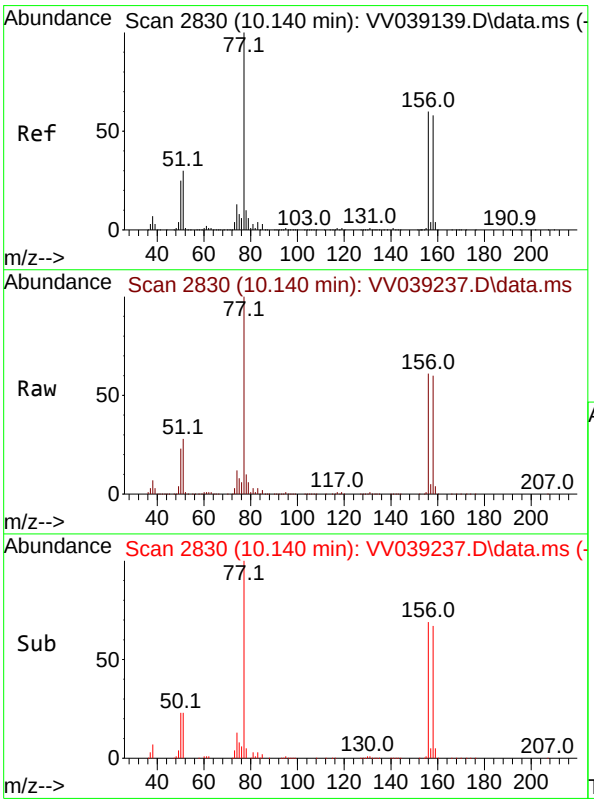

#76
1,2,3-Trichloropropane
Concen: 48.805 ug/l
RT: 10.198 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion: 75 Resp: 515358

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 23.1 | 11.3 | 33.8 |

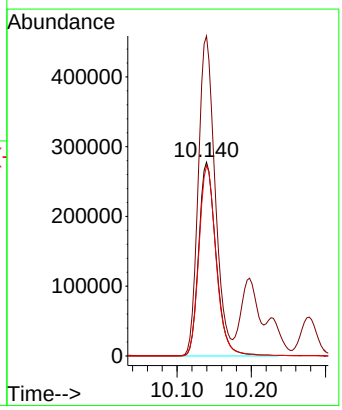


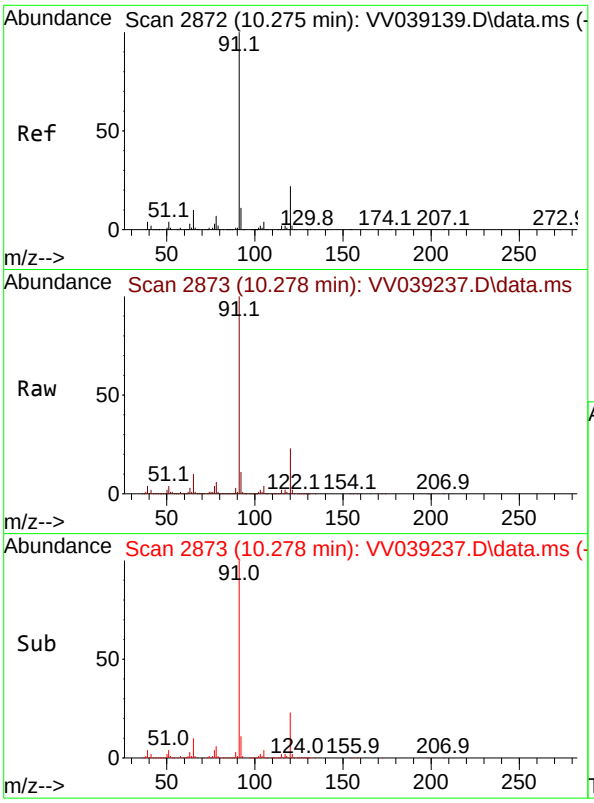




#77
Bromobenzene
Concen: 51.546 ug/l
RT: 10.140 min Scan# 2830
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion:156 Resp: 449861

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 160.3 | 83.4 | 250.1 |
| 158 | 98.1 | 48.8 | 146.4 |



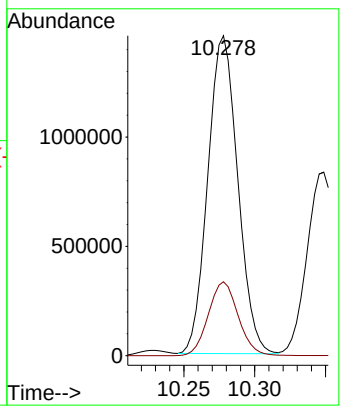


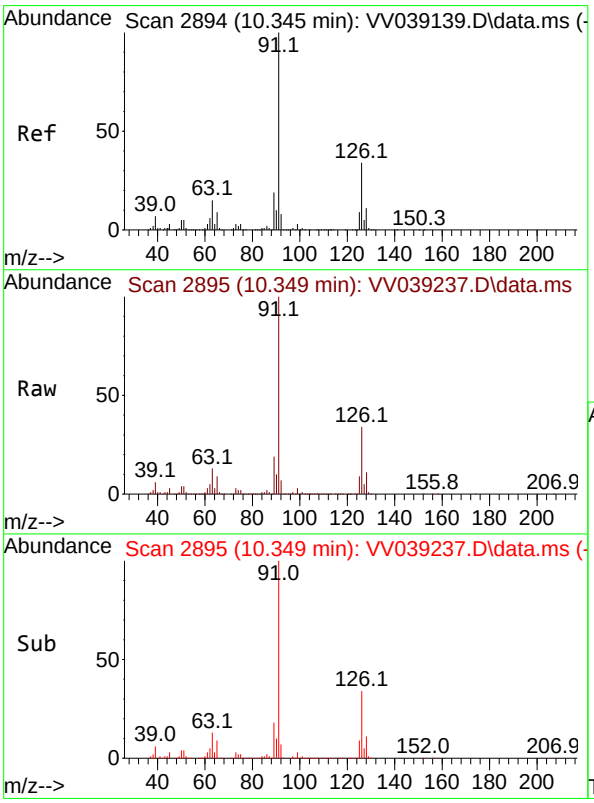

#78
n-propylbenzene
Concen: 52.135 ug/l
RT: 10.278 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion: 91 Resp: 2135598

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 23.2 | 11.1 | 33.3 |

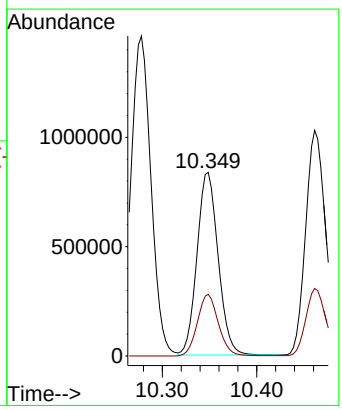


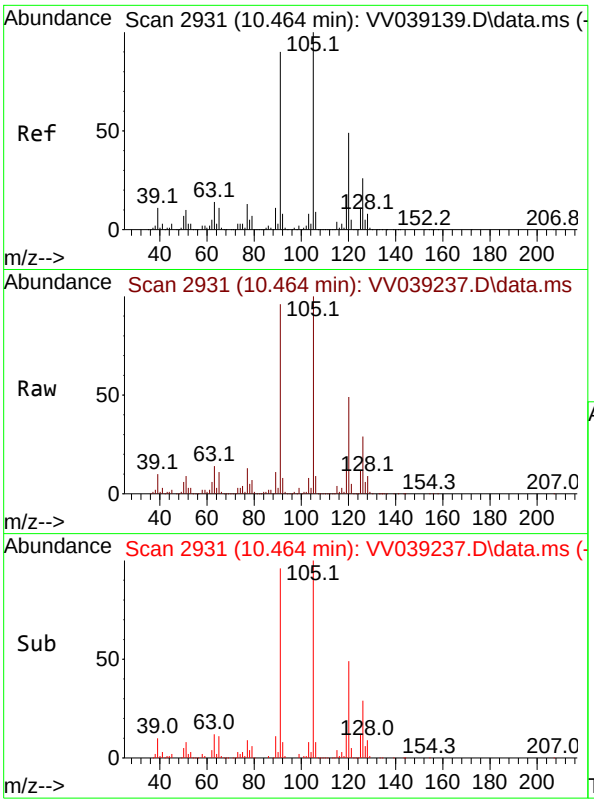




#79
2-Chlorotoluene
Concen: 52.883 ug/l
RT: 10.349 min Scan# 2895
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 91 Resp: 1296224

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.4 | 16.7 | 50.0 |



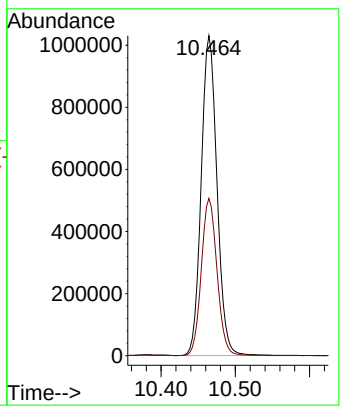


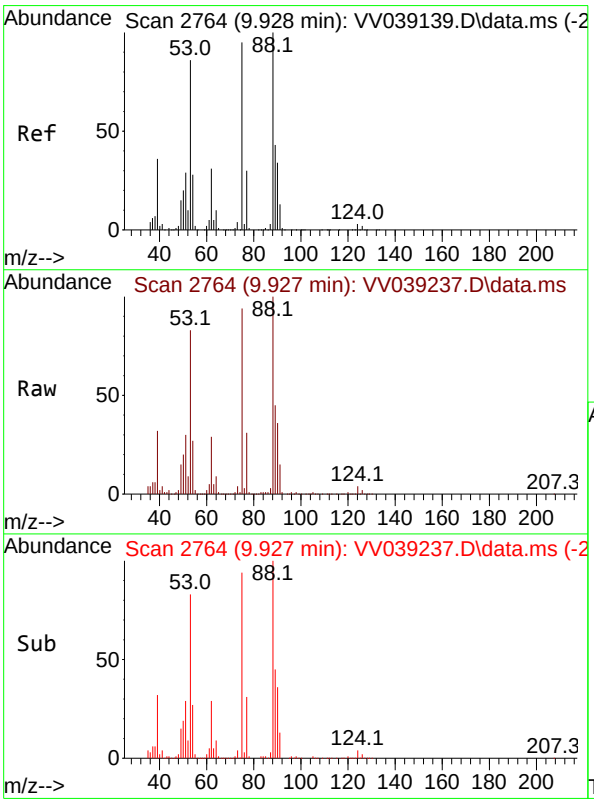

#80
1,3,5-Trimethylbenzene
Concen: 54.405 ug/l
RT: 10.464 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion:105 Resp: 1521131

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.8 | 24.3 | 72.8 |

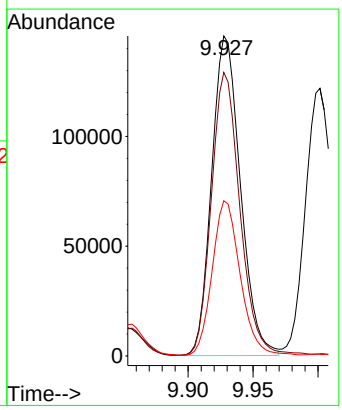


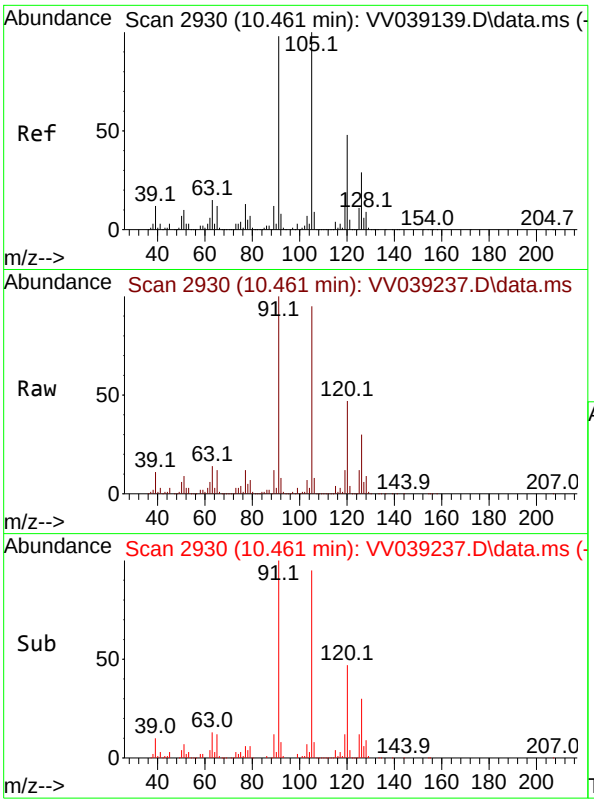




#81
trans-1,4-Dichloro-2-butene
Concen: 50.999 ug/l
RT: 9.927 min Scan# 2764
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 75 Resp: 224319

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 87.9 | 72.5 | 108.7 |
| 89 | 47.0 | 37.2 | 55.8 |



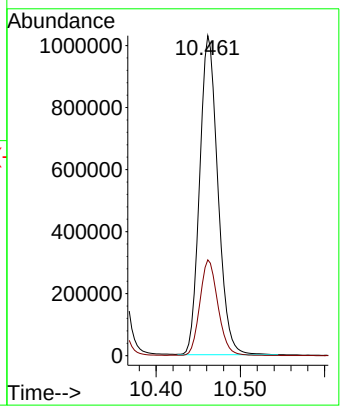


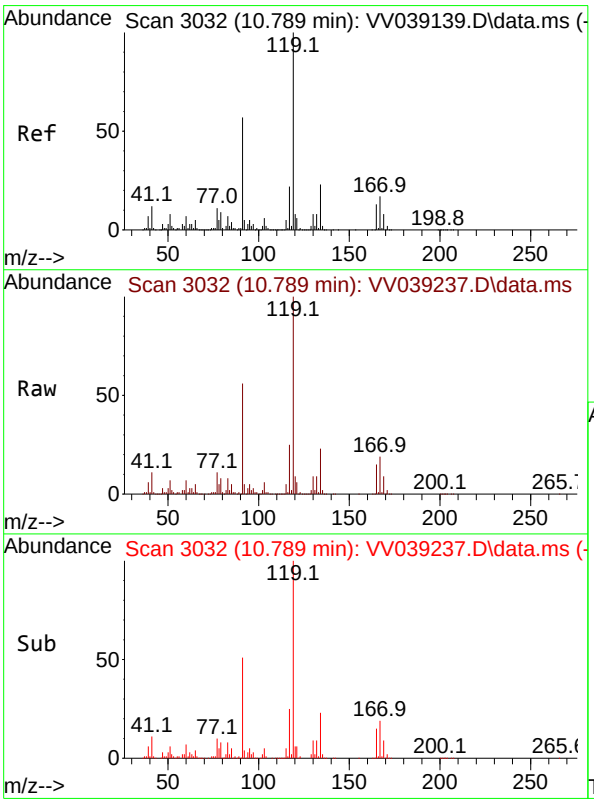

#82
4-Chlorotoluene
Concen: 54.545 ug/l
RT: 10.461 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion: 91 Resp: 1550297

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 30.0 | 14.5 | 43.6 |

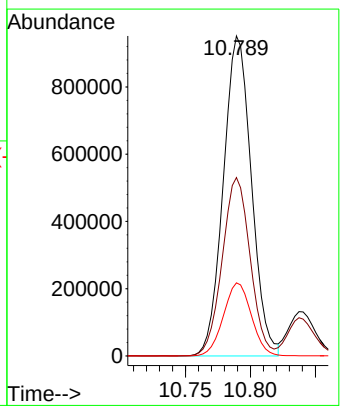


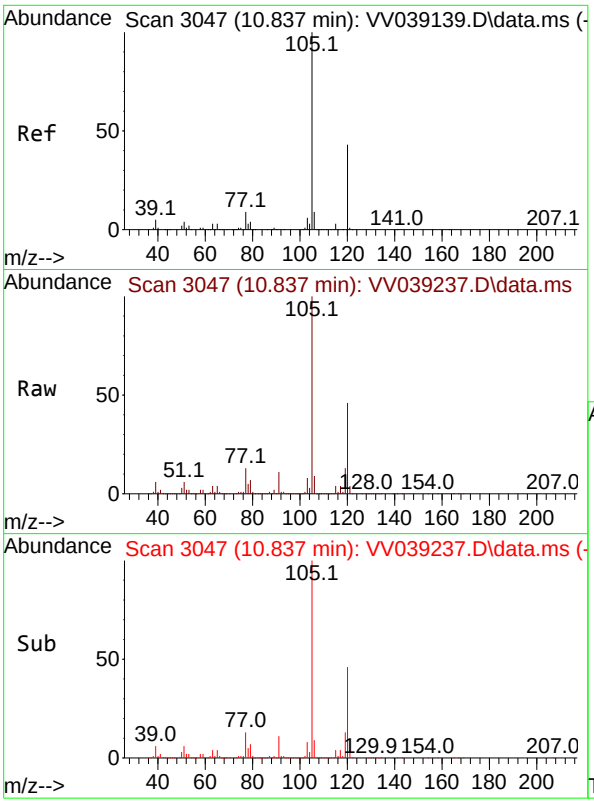




#83
tert-Butylbenzene
Concen: 51.394 ug/l
RT: 10.789 min Scan# 3032
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion:119 Resp: 1432871

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 55.3 | 28.5 | 85.6 |
| 134 | 22.8 | 11.5 | 34.4 |



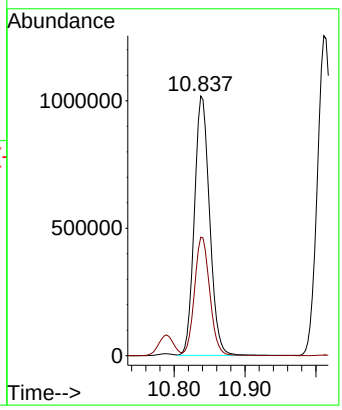


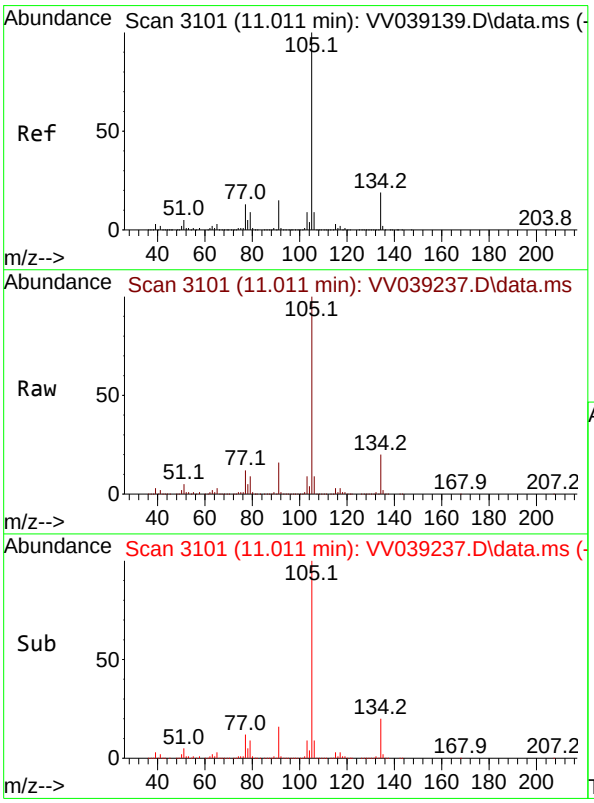

#84
1,2,4-Trimethylbenzene
Concen: 56.079 ug/l
RT: 10.837 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion:105 Resp: 1522222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.6 | 22.4 | 67.2 |

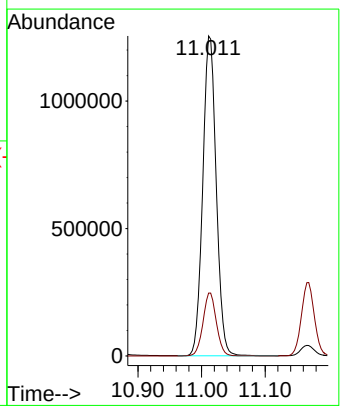


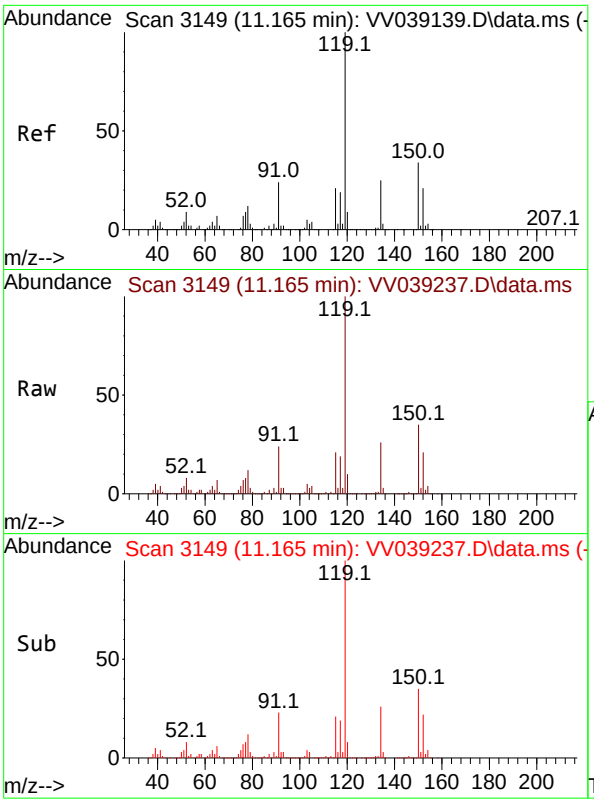




#85
sec-Butylbenzene
Concen: 49.697 ug/l
RT: 11.011 min Scan# 3101
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion:105 Resp: 1837748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.7 | 9.6 | 28.8 |



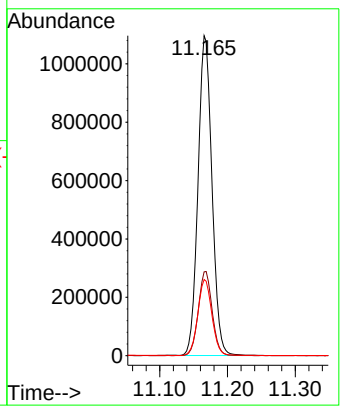


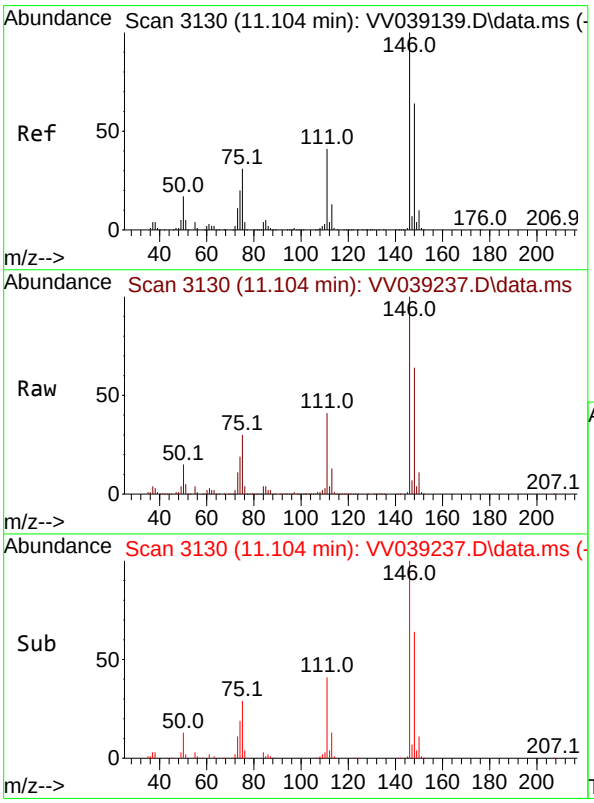

#86
p-Isopropyltoluene
Concen: 50.879 ug/l
RT: 11.165 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion:119 Resp: 1565969

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.1 | 12.7 | 38.0 |
| 91 | 24.0 | 12.0 | 36.1 |

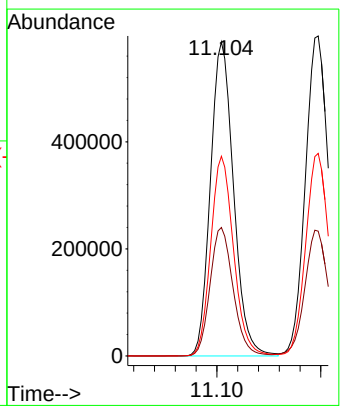


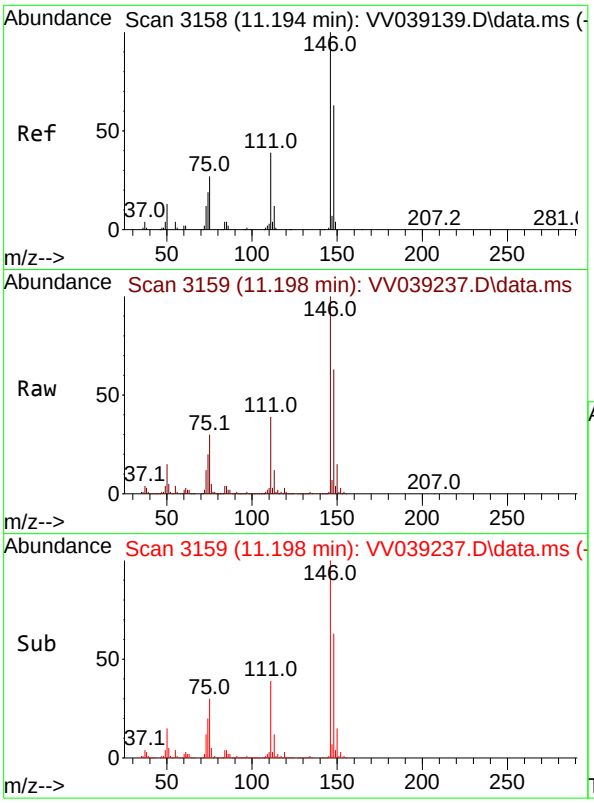




#87
1,3-Dichlorobenzene
Concen: 51.316 ug/l
RT: 11.104 min Scan# 3130
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion:146 Resp: 906378

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.6 | 20.9 | 62.8 |
| 148 | 62.9 | 31.8 | 95.3 |



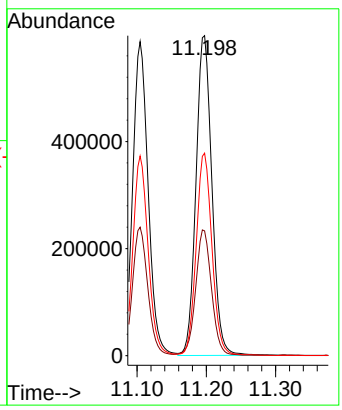


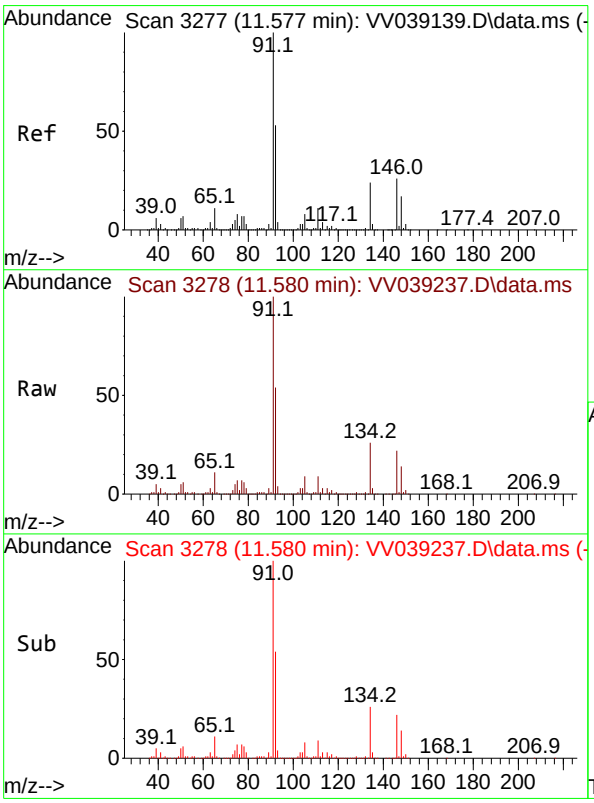

#88
1,4-Dichlorobenzene
Concen: 49.260 ug/l
RT: 11.198 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion:146 Resp: 954552

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.1 | 20.3 | 60.8 |
| 148 | 62.9 | 31.4 | 94.2 |

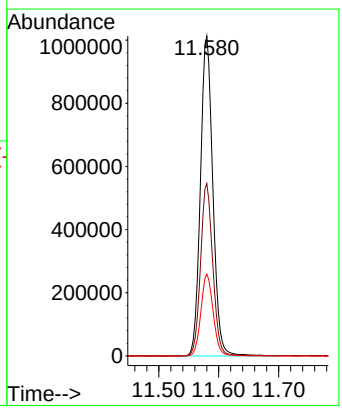


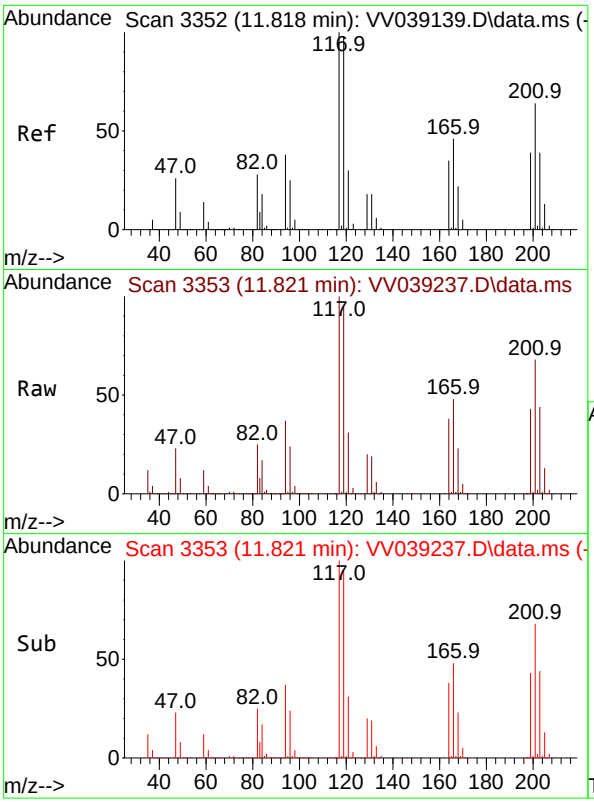




#89
n-Butylbenzene
Concen: 49.707 ug/l
RT: 11.580 min Scan# 3278
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion: 91 Resp: 1461115

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.0 | 26.6 | 79.8 |
| 134 | 25.3 | 12.1 | 36.3 |



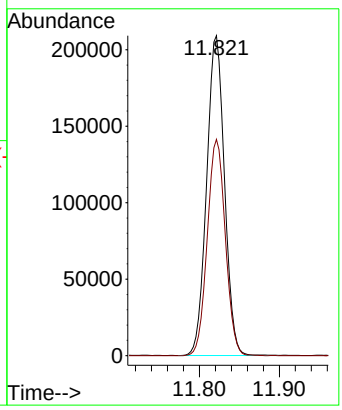


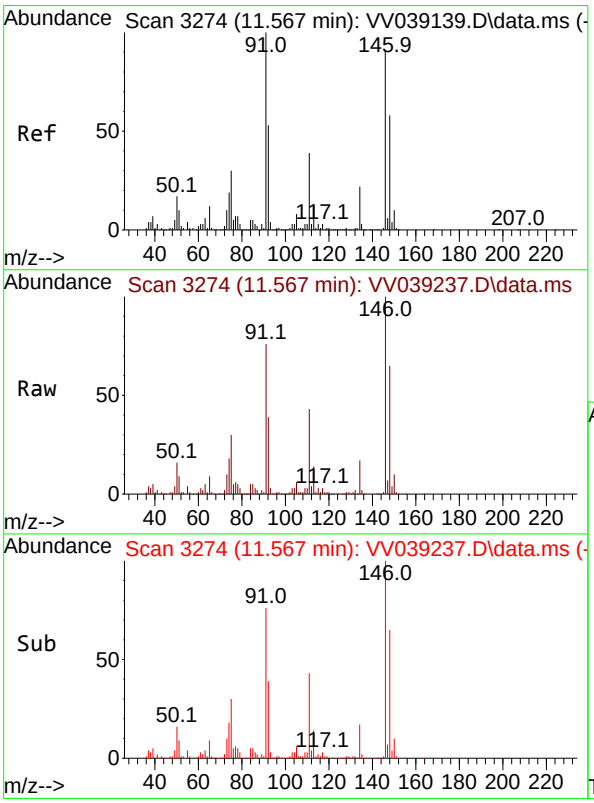

#90
Hexachloroethane
Concen: 42.885 ug/l
RT: 11.821 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion:117 Resp: 325035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 68.3 | 32.3 | 96.8 |

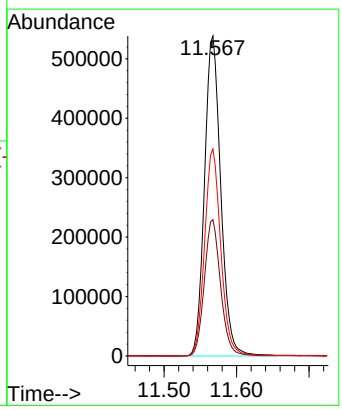


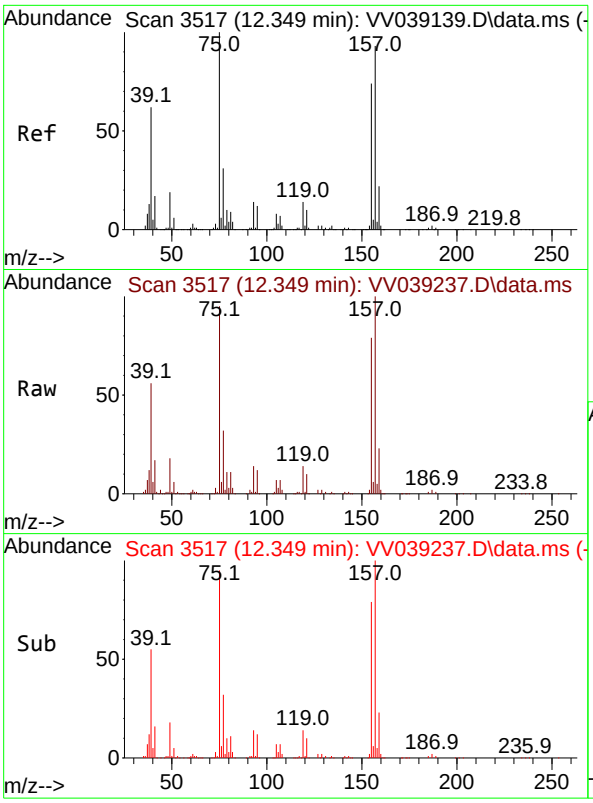




#91
1,2-Dichlorobenzene
Concen: 50.867 ug/l
RT: 11.567 min Scan# 3274
Delta R.T. 0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion:146 Resp: 839410

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.5 | 21.5 | 64.5 |
| 148 | 64.4 | 31.9 | 95.7 |



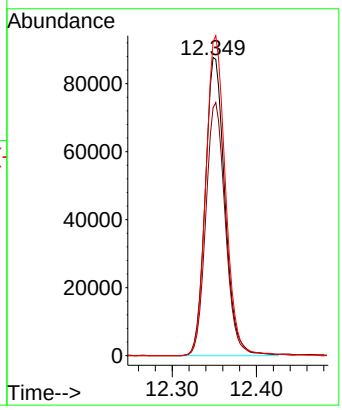


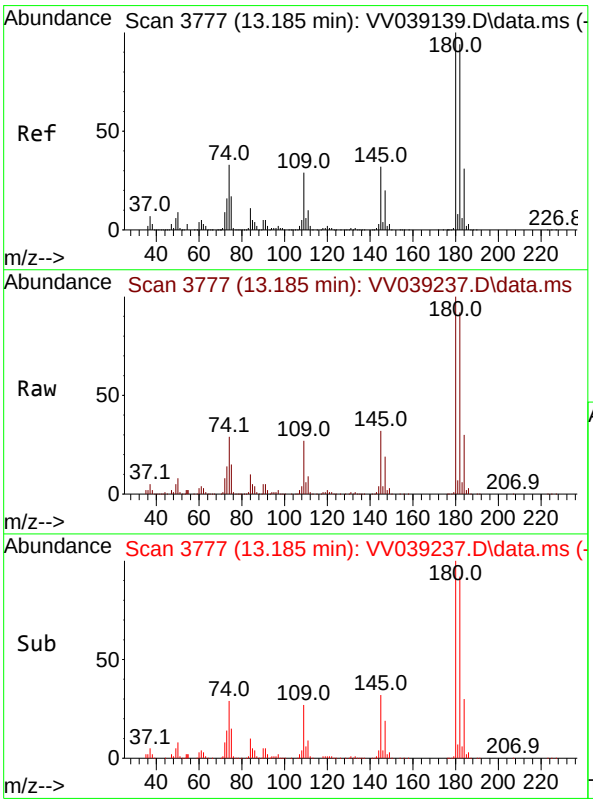

#92
1,2-Dibromo-3-Chloropropane
Concen: 53.576 ug/l
RT: 12.349 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion: 75 Resp: 142548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 84.4 | 38.6 | 115.8 |
| 157 | 107.2 | 49.5 | 148.3 |

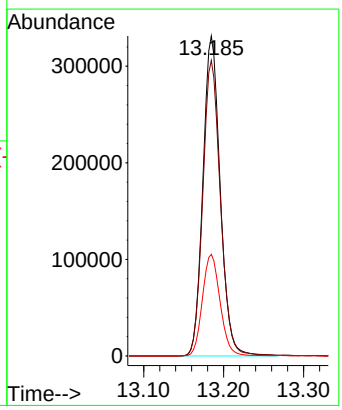


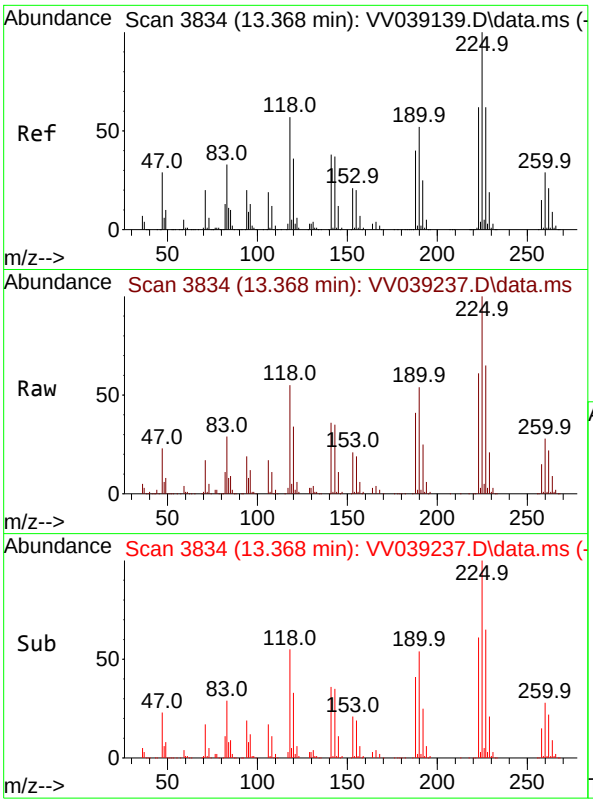




#93
1,2,4-Trichlorobenzene
Concen: 52.772 ug/l
RT: 13.185 min Scan# 3777
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion:180 Resp: 499193

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.3 | 47.1 | 141.4 |
| 145 | 32.5 | 16.3 | 48.8 |



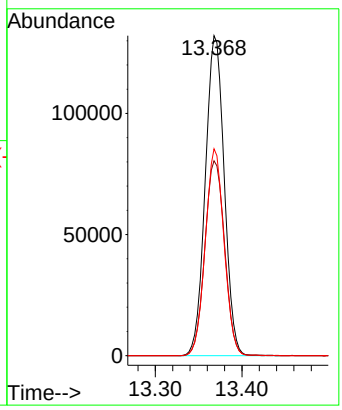


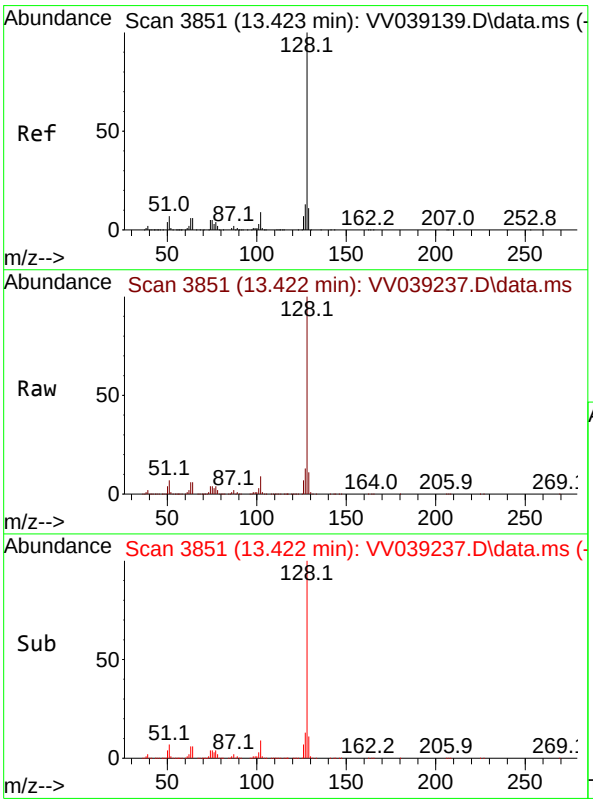

#94
Hexachlorobutadiene
Concen: 40.785 ug/l
RT: 13.368 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion:225 Resp: 200469

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.3 | 31.6 | 94.7 |
| 227 | 63.9 | 31.8 | 95.4 |

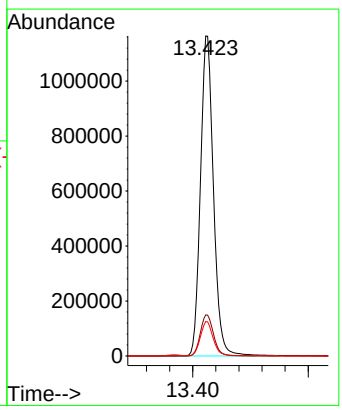


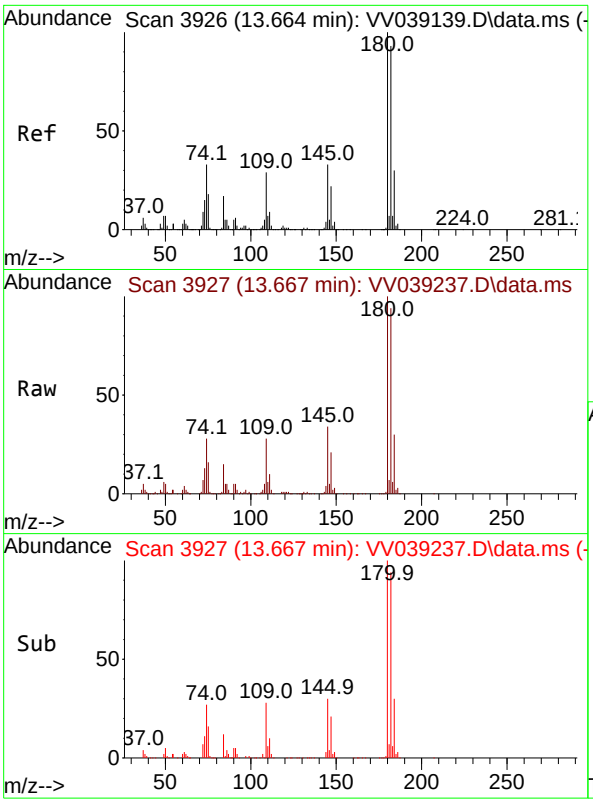




#95
Naphthalene
Concen: 59.545 ug/l
RT: 13.422 min Scan# 3851
Delta R.T. -0.001 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

Tgt Ion:128 Resp: 1820572

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.1 | 10.3 | 15.5 |
| 129 | 10.5 | 8.6 | 13.0 |



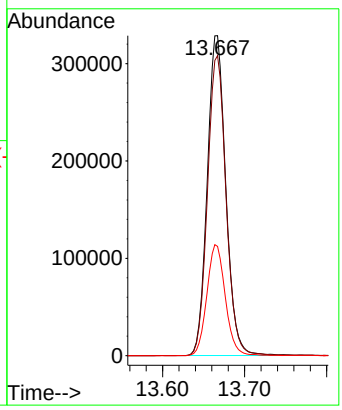



#96
1,2,3-Trichlorobenzene
Concen: 53.435 ug/l
RT: 13.667 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039237.D
Acq: 29 Sep 2025 17:15

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MS

Tgt Ion:180 Resp: 516977

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.0 | 46.9 | 140.8 |
| 145 | 34.6 | 17.0 | 51.0 |



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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/17/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-33D-091725MSD | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-21MSD | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039238.D | 1 | 09/29/25 17:38 | VV092925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | |
| 75-71-8 | Dichlorodifluoromethane | 47.8 | | 0.22 | 1.00 | ug/L |
| 74-87-3 | Chloromethane | 40.7 | | 0.32 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 43.1 | | 0.26 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 44.7 | | 1.40 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 46.0 | | 0.47 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 44.9 | | 0.33 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 47.3 | | 0.25 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 45.7 | | 0.23 | 1.00 | ug/L |
| 67-64-1 | Acetone | 190 | | 1.50 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 39.6 | | 0.21 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 47.3 | | 0.16 | 1.00 | ug/L |
| 79-20-9 | Methyl Acetate | 47.9 | | 0.27 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 50.1 | | 0.28 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 45.7 | | 0.23 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 43.2 | | 0.23 | 1.00 | ug/L |
| 110-82-7 | Cyclohexane | 38.8 | | 1.50 | 5.00 | ug/L |
| 78-93-3 | 2-Butanone | 220 | | 0.98 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 47.4 | | 0.25 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 47.9 | | 0.19 | 1.00 | ug/L |
| 74-97-5 | Bromochloromethane | 45.1 | | 0.22 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 43.0 | | 0.25 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 43.6 | | 0.20 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 45.7 | | 0.16 | 1.00 | ug/L |
| 71-43-2 | Benzene | 49.1 | | 0.15 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 47.1 | | 0.22 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 58.2 | | 0.090 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 50.6 | | 0.20 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 48.4 | | 0.22 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 270 | | 0.68 | 5.00 | ug/L |
| 108-88-3 | Toluene | 53.7 | | 0.14 | 1.00 | ug/L |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/17/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-33D-091725MSD | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-21MSD | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039238.D | 1 | 09/29/25 17:38 | VV092925 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|
| 10061-02-6 | t-1,3-Dichloropropene | 53.0 | | 0.17 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 48.2 | | 0.16 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 51.5 | | 0.21 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 250 | | 0.89 | 5.00 | ug/L |
| 124-48-1 | Dibromochloromethane | 52.6 | | 0.18 | 1.00 | ug/L |
| 106-93-4 | 1,2-Dibromoethane | 53.1 | | 0.15 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 51.7 | | 0.23 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 50.3 | | 0.12 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 55.1 | | 0.13 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 120 | | 0.24 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 58.2 | | 0.12 | 1.00 | ug/L |
| 100-42-5 | Styrene | 52.1 | | 0.15 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 57.1 | | 0.19 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 49.8 | | 0.12 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 43.4 | | 0.26 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 48.3 | | 0.16 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 45.8 | | 0.19 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 48.3 | | 0.16 | 1.00 | ug/L |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 50.9 | | 0.53 | 1.00 | ug/L |
| 120-82-1 | 1,2,4-Trichlorobenzene | 50.0 | | 0.20 | 1.00 | ug/L |
| 87-61-6 | 1,2,3-Trichlorobenzene | 50.7 | | 0.20 | 1.00 | ug/L |
| **SURROGATES** | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 43.2 | | 74 - 125 | 86% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 51.2 | | 75 - 124 | 102% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 48.8 | | 86 - 113 | 98% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 56.8 | | 77 - 121 | 114% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | |
| 363-72-4 | Pentafluorobenzene | 541000 | 4.6 | | | |
| 540-36-3 | 1,4-Difluorobenzene | 802000 | 5.532 | | | |
| 3114-55-4 | Chlorobenzene-d5 | 776000 | 8.776 | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 497000 | 11.172 | | | |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | TechLaw Consultants, Inc | Date Collected: | 09/17/25 |
| Project: | REAC Commodore | Date Received: | 09/25/25 |
| Client Sample ID: | MW-33D-091725MSD | SDG No.: | Q3195 |
| Lab Sample ID: | Q3195-21MSD | Matrix: | Water |
| Analytical Method: | 8260D | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOC-TCLVOA-10 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Date Analyzed | Prep Batch ID |
|---|---|---|---|
| VV039238.D | 1 | 09/29/25 17:38 | VV092925 |

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

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039238.D
Acq On : 29 Sep 2025 17:38
Operator : SY/MD
Sample : Q3195-21MSD
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Quant Time: Sep 30 01:30:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 4.600 | 168 | 540727 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 5.532 | 114 | 801849 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 8.776 | 117 | 776445 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 11.172 | 152 | 497049 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 4.941 | 65 | 338268 | 43.224 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 81 - 118 | | Recovery = 86.440% | | | |
| 35) Dibromofluoromethane | 4.500 | 113 | 330222 | 51.227 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 80 - 119 | | Recovery = 102.460% | | | |
| 50) Toluene-d8 | 7.236 | 98 | 924513 | 48.832 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 89 - 112 | | Recovery = 97.660% | | | |
| 62) 4-Bromofluorobenzene | 10.001 | 95 | 442703 | 56.800 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 85 - 114 | | Recovery = 113.600% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.121 | 85 | 409233 | 47.809 | ug/l | 99 |
| 3) Chloromethane | 1.227 | 50 | 374091 | 40.711 | ug/l | 99 |
| 4) Vinyl Chloride | 1.294 | 62 | 424340 | 43.135 | ug/l | 100 |
| 5) Bromomethane | 1.494 | 94 | 277351 | 44.723 | ug/l | 100 |
| 6) Chloroethane | 1.558 | 64 | 268225 | 46.029 | ug/l | 100 |
| 7) Trichlorofluoromethane | 1.725 | 101 | 640051 | 44.938 | ug/l | 100 |
| 8) Diethyl Ether | 1.918 | 74 | 245588 | 46.448 | ug/l | 93 |
| 9) 1,1,2-Trichlorotrifluo... | 2.079 | 101 | 400444 | 47.252 | ug/l | 97 |
| 10) Methyl Iodide | 2.195 | 142 | 450189 | 55.784 | ug/l | 99 |
| 11) Tert butyl alcohol | 2.571 | 59 | 421033 | 254.549 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 2.082 | 96 | 372736 | 45.719 | ug/l | 92 |
| 13) Acrolein | 2.008 | 56 | 51851 | 180.660 | ug/l | 93 |
| 14) Allyl chloride | 2.355 | 41 | 622696 | 42.759 | ug/l | 97 |
| 15) Acrylonitrile | 2.674 | 53 | 1186396 | 223.752 | ug/l | 98 |
| 16) Acetone | 2.117 | 43 | 924673 | 187.048 | ug/l | 96 |
| 17) Carbon Disulfide | 2.253 | 76 | 988393 | 39.641 | ug/l | 99 |
| 18) Methyl Acetate | 2.378 | 43 | 554871 | 47.853 | ug/l | 96 |
| 19) Methyl tert-butyl Ether | 2.712 | 73 | 1228842 | 47.301 | ug/l | 98 |
| 20) Methylene Chloride | 2.455 | 84 | 423573 | 50.097 | ug/l | 93 |
| 21) trans-1,2-Dichloroethene | 2.699 | 96 | 396720 | 45.709 | ug/l | 96 |
| 22) Diisopropyl ether | 3.217 | 45 | 1219843 | 43.780 | ug/l | 98 |
| 23) Vinyl Acetate | 3.188 | 43 | 5263028 | 215.924 | ug/l | 97 |
| 24) 1,1-Dichloroethane | 3.117 | 63 | 736796 | 43.241 | ug/l | 98 |
| 25) 2-Butanone | 3.867 | 43 | 1389008 | 221.647 | ug/l | 97 |
| 26) 2,2-Dichloropropane | 3.809 | 77 | 563462 | 37.295 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 3.818 | 96 | 458098 | 47.857 | ug/l | 95 |
| 28) Bromochloromethane | 4.146 | 49 | 339370 | 45.116 | ug/l | 90 |
| 29) Tetrahydrofuran | 4.240 | 42 | 926118 | 236.103 | ug/l | 96 |
| 30) Chloroform | 4.278 | 83 | 764253 | 42.953 | ug/l | 100 |
| 31) Cyclohexane | 4.584 | 56 | 541266 | 38.778 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 4.513 | 97 | 670890 | 43.554 | ug/l | 97 |
| 36) 1,1-Dichloropropene | 4.741 | 75 | 477402 | 48.984 | ug/l | 98 |
| 37) Ethyl Acetate | 3.976 | 43 | 541921 | 45.824 | ug/l | 96 |
| 38) Carbon Tetrachloride | 4.735 | 117 | 564742 | 47.413 | ug/l | 98 |
| 39) Methylcyclohexane | 6.047 | 83 | 537787 | 45.693 | ug/l | 97 |
| 40) Benzene | 5.008 | 78 | 1558660 | 49.112 | ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039238.D
Acq On : 29 Sep 2025 17:38
Operator : SY/MD
Sample : Q3195-21MSD
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Quant Time: Sep 30 01:30:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.159 | 41 | 254239 | 47.642 | ug/l | 96 |
| 42) 1,2-Dichloroethane | 5.040 | 62 | 524185 | 47.139 | ug/l | 98 |
| 43) Isopropyl Acetate | 5.195 | 43 | 801758 | 49.723 | ug/l | 96 |
| 44) Trichloroethene | 5.831 | 130 | 426325 | 58.214 | ug/l | 100 |
| 45) 1,2-Dichloropropane | 6.088 | 63 | 398845 | 50.561 | ug/l | 97 |
| 46) Dibromomethane | 6.223 | 93 | 306161 | 50.709 | ug/l | 96 |
| 47) Bromodichloromethane | 6.426 | 83 | 604268 | 48.412 | ug/l | 98 |
| 48) Methyl methacrylate | 6.297 | 41 | 387316 | 52.989 | ug/l | 96 |
| 49) 1,4-Dioxane | 6.291 | 88 | 136656 | 1158.527 | ug/l | 99 |
| 51) 4-Methyl-2-Pentanone | 7.149 | 43 | 2894765 | 272.884 | ug/l | 98 |
| 52) Toluene | 7.307 | 92 | 987839 | 53.684 | ug/l | 98 |
| 53) t-1,3-Dichloropropene | 7.574 | 75 | 576616 | 53.009 | ug/l | 99 |
| 54) cis-1,3-Dichloropropene | 6.947 | 75 | 578415 | 48.168 | ug/l | 98 |
| 55) 1,1,2-Trichloroethane | 7.760 | 97 | 424550 | 51.456 | ug/l | 97 |
| 56) Ethyl methacrylate | 7.715 | 69 | 582543 | 59.454 | ug/l | 94 |
| 57) 1,3-Dichloropropane | 7.934 | 76 | 665587 | 51.116 | ug/l | 99 |
| 59) 2-Hexanone | 8.063 | 43 | 2155011 | 251.657 | ug/l | 97 |
| 60) Dibromochloromethane | 8.169 | 129 | 494699 | 52.620 | ug/l | 98 |
| 61) 1,2-Dibromoethane | 8.272 | 107 | 448069 | 53.102 | ug/l | 99 |
| 64) Tetrachloroethene | 7.895 | 164 | 336355 | 51.720 | ug/l | 98 |
| 65) Chlorobenzene | 8.805 | 112 | 1088354 | 50.323 | ug/l | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 8.895 | 131 | 408617 | 52.289 | ug/l | 99 |
| 67) Ethyl Benzene | 8.937 | 91 | 1804937 | 55.133 | ug/l | 100 |
| 68) m/p-Xylenes | 9.063 | 106 | 1480331 | 117.156 | ug/l | 99 |
| 69) o-Xylene | 9.468 | 106 | 651457 | 58.228 | ug/l | 99 |
| 70) Styrene | 9.484 | 104 | 1236246 | 52.111 | ug/l | 99 |
| 71) Bromoform | 9.654 | 173 | 348675 | 57.122 | ug/l | 100 |
| 73) Isopropylbenzene | 9.857 | 105 | 1794634 | 49.780 | ug/l | 100 |
| 74) N-amyl acetate | 9.725 | 43 | 730955 | 50.831 | ug/l | 96 |
| 75) 1,1,2,2-Tetrachloroethane | 10.165 | 83 | 685760 | 43.414 | ug/l | 99 |
| 76) 1,2,3-Trichloropropane | 10.198 | 75 | 513184 | 45.346 | ug/l | 98 |
| 77) Bromobenzene | 10.140 | 156 | 458429 | 49.012 | ug/l | 96 |
| 78) n-propylbenzene | 10.278 | 91 | 2161429 | 49.233 | ug/l | 98 |
| 79) 2-Chlorotoluene | 10.349 | 91 | 1313750 | 50.010 | ug/l | 100 |
| 80) 1,3,5-Trimethylbenzene | 10.464 | 105 | 1550730 | 51.751 | ug/l | 99 |
| 81) trans-1,4-Dichloro-2-b... | 9.927 | 75 | 224474 | 47.618 | ug/l | 98 |
| 82) 4-Chlorotoluene | 10.461 | 91 | 1565365 | 51.389 | ug/l | 99 |
| 83) tert-Butylbenzene | 10.789 | 119 | 1467159 | 49.102 | ug/l | 98 |
| 84) 1,2,4-Trimethylbenzene | 10.837 | 105 | 1534040 | 52.732 | ug/l | 98 |
| 85) sec-Butylbenzene | 11.011 | 105 | 1857611 | 46.872 | ug/l | 99 |
| 86) p-Isopropyltoluene | 11.165 | 119 | 1582644 | 47.979 | ug/l | 99 |
| 87) 1,3-Dichlorobenzene | 11.104 | 146 | 913700 | 48.268 | ug/l | 100 |
| 88) 1,4-Dichlorobenzene | 11.194 | 146 | 951037 | 45.793 | ug/l | 99 |
| 89) n-Butylbenzene | 11.580 | 91 | 1481352 | 47.022 | ug/l | 99 |
| 90) Hexachloroethane | 11.821 | 117 | 329035 | 40.507 | ug/l | 96 |
| 91) 1,2-Dichlorobenzene | 11.567 | 146 | 854599 | 48.321 | ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.349 | 75 | 144885 | 50.939 | ug/l | 94 |
| 93) 1,2,4-Trichlorobenzene | 13.185 | 180 | 507400 | 50.049 | ug/l | 100 |
| 94) Hexachlorobutadiene | 13.368 | 225 | 205155 | 38.945 | ug/l | 99 |
| 95) Naphthalene | 13.422 | 128 | 1837825 | 56.086 | ug/l | 100 |
| 96) 1,2,3-Trichlorobenzene | 13.664 | 180 | 525316 | 50.663 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039238.D
Acq On : 29 Sep 2025 17:38
Operator : SY/MD
Sample : Q3195-21MSD
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Quant Time: Sep 30 01:30:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration

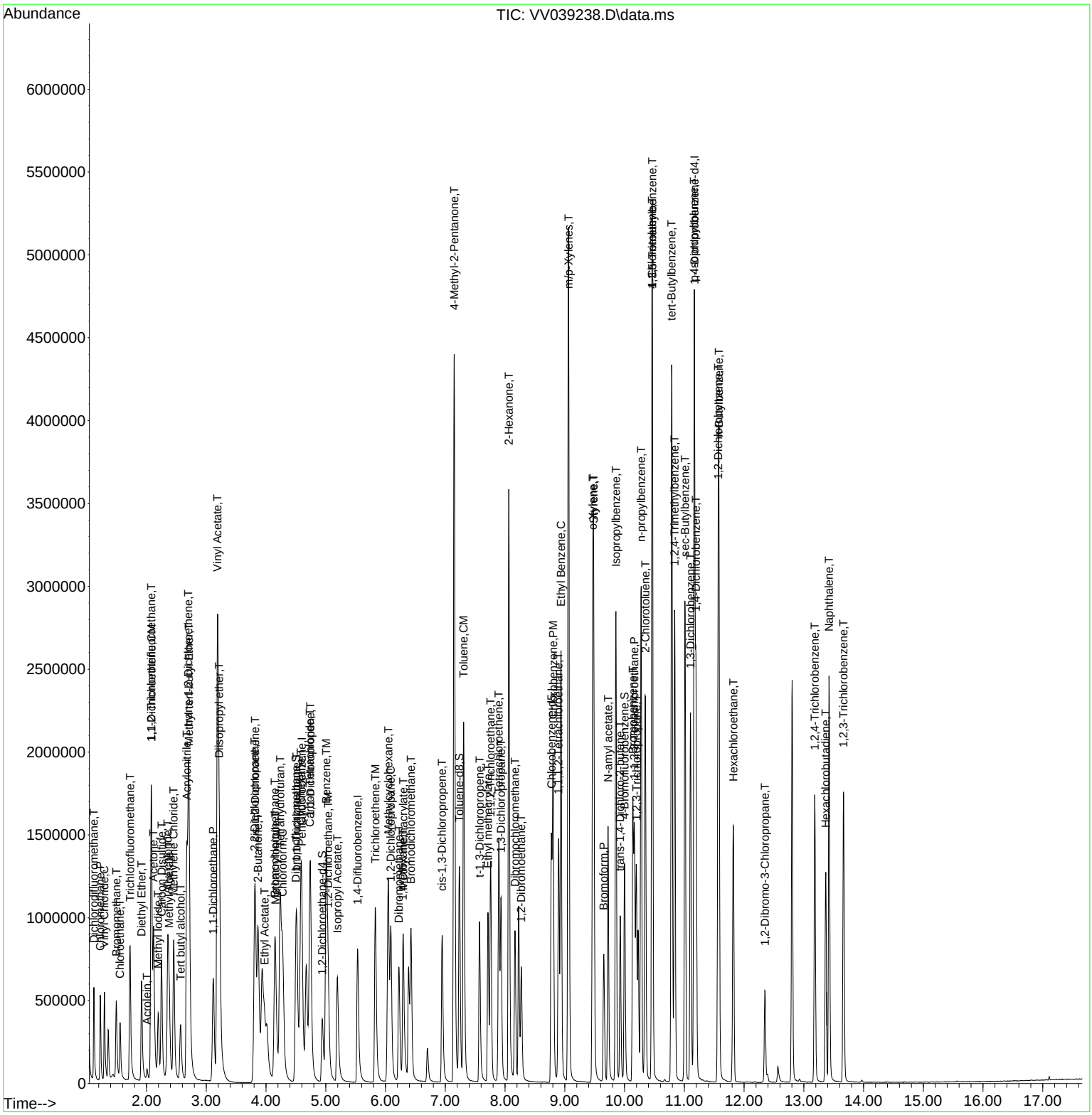
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

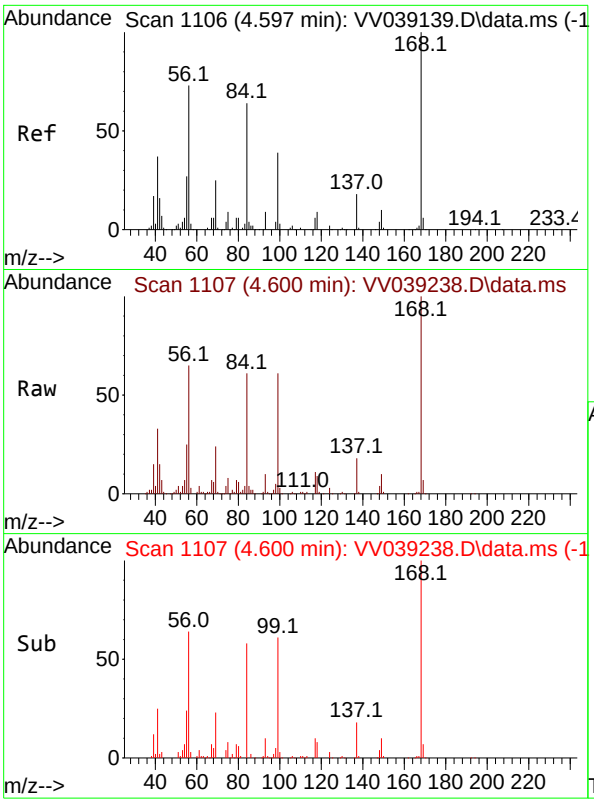
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092925\
Data File : VV039238.D
Acq On : 29 Sep 2025 17:38
Operator : SY/MD
Sample : Q3195-21MSD
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 19 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Quant Time: Sep 30 01:30:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 08:08:08 2025
Response via : Initial Calibration



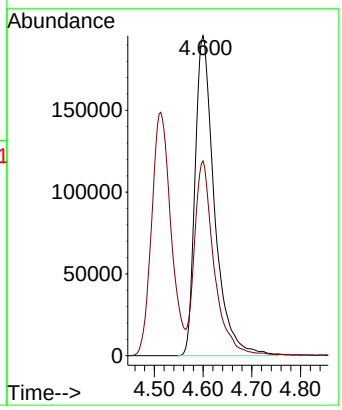


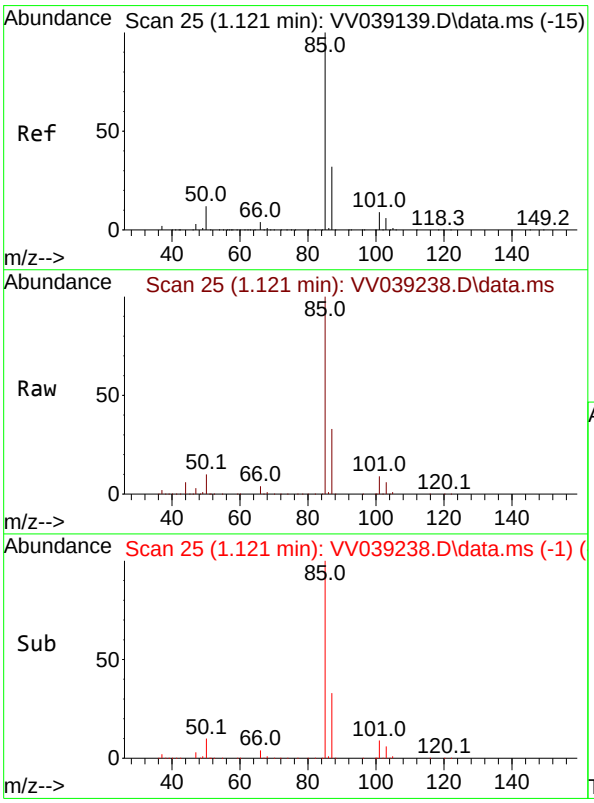

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 4.600 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion:168 Resp: 540727

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 60.3 | 49.6 | 74.4 |

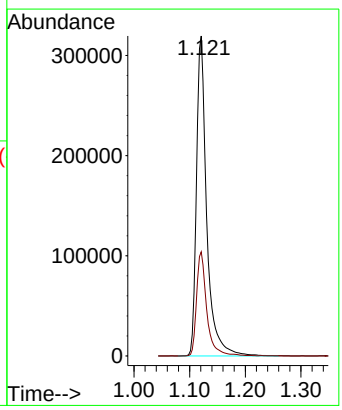


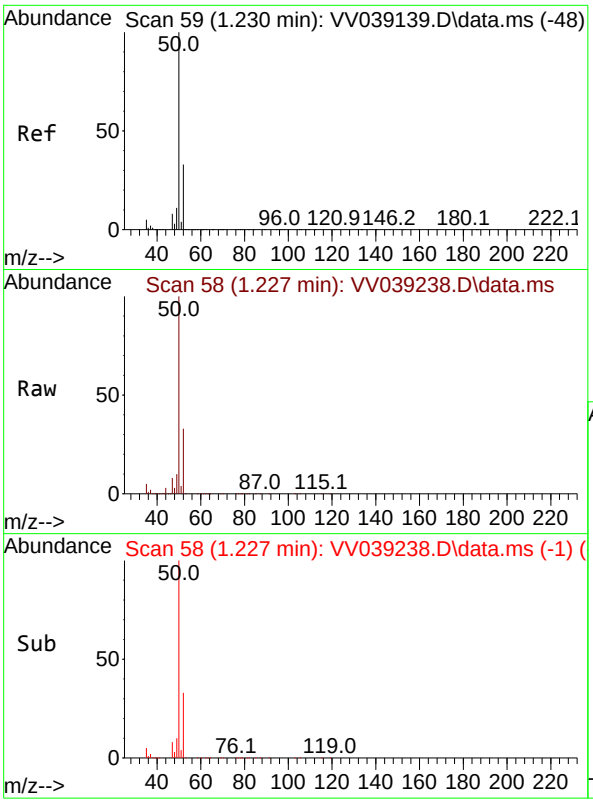




#2
Dichlorodifluoromethane
Concen: 47.809 ug/l
RT: 1.121 min Scan# 25
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 85 Resp: 409233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.5 | 16.0 | 47.9 |



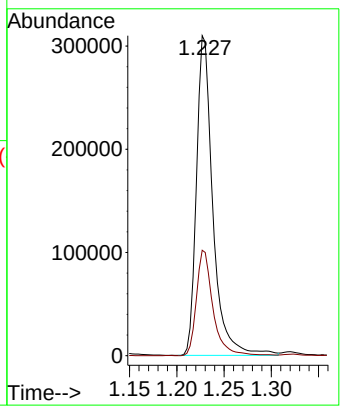


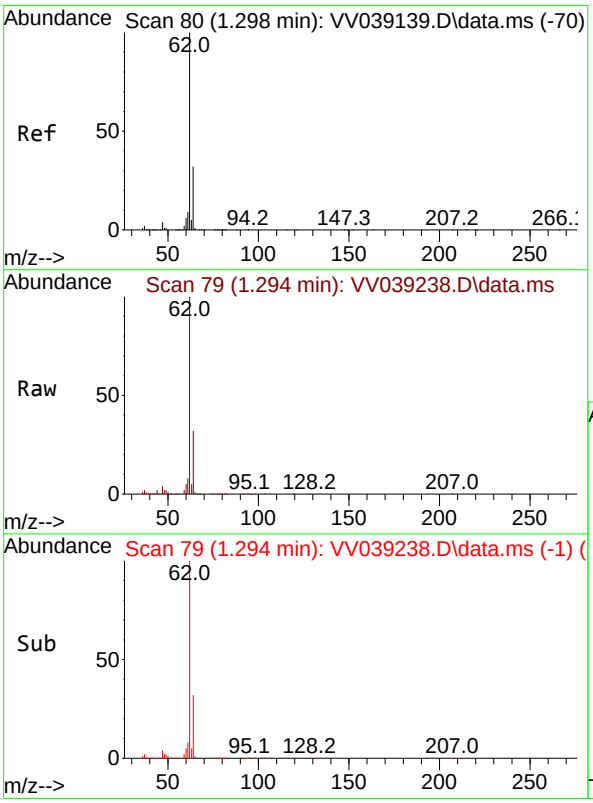

#3
Chloromethane
Concen: 40.711 ug/l
RT: 1.227 min Scan# 5
Delta R.T. -0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion: 50 Resp: 374091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.0 | 26.0 | 39.0 |

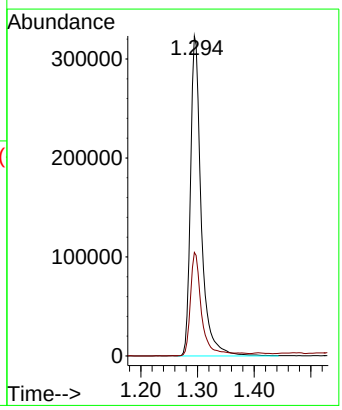


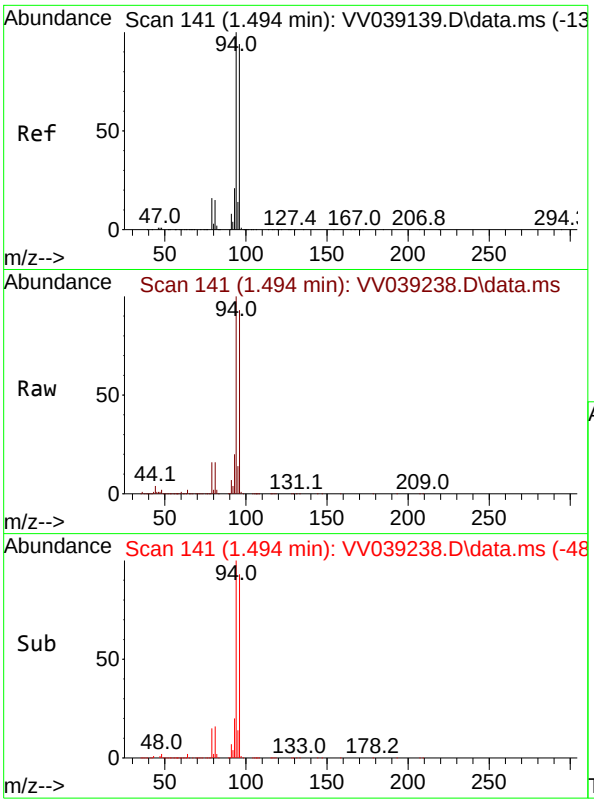




#4
Vinyl Chloride
Concen: 43.135 ug/l
RT: 1.294 min Scan# 79
Delta R.T. -0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 62 Resp: 424340

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.2 | 25.6 | 38.4 |



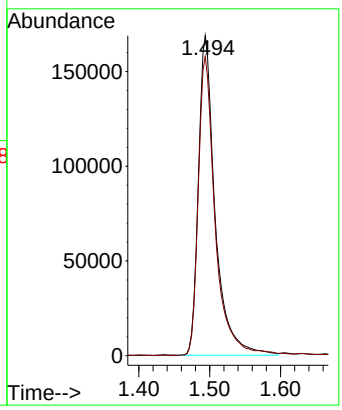


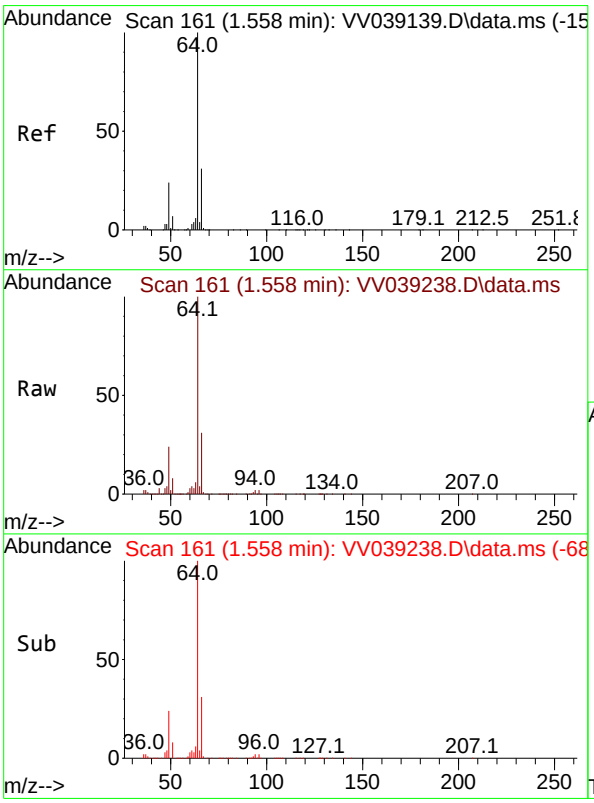

#5
Bromomethane
Concen: 44.723 ug/l
RT: 1.494 min Scan# 14
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion: 94 Resp: 277351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 93.5 | 74.9 | 112.3 |

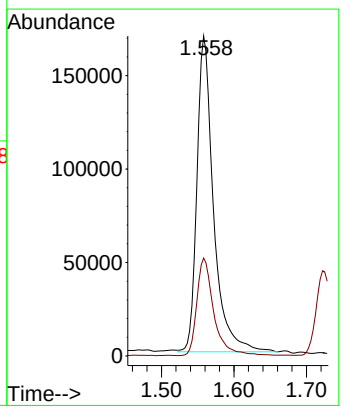


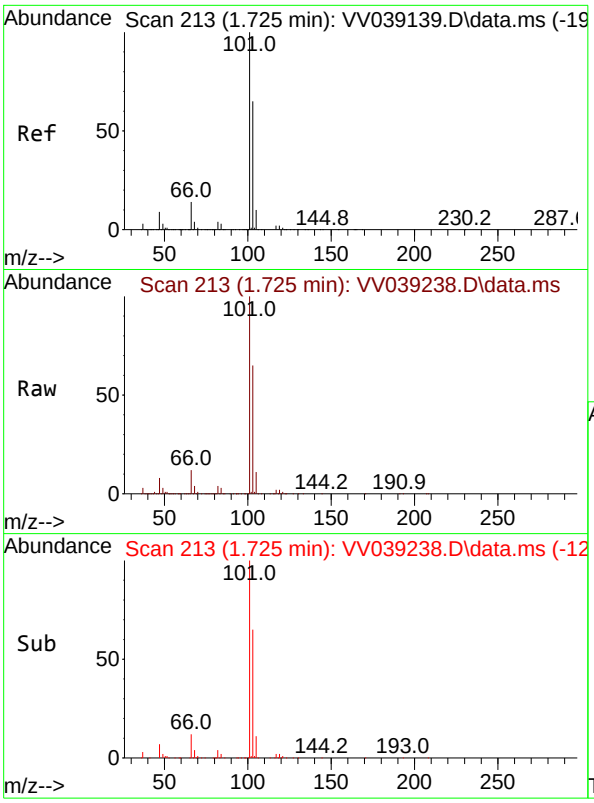




#6
Chloroethane
Concen: 46.029 ug/l
RT: 1.558 min Scan# 161
Delta R.T. 0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 64 Resp: 268225

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.9 | 24.6 | 36.8 |



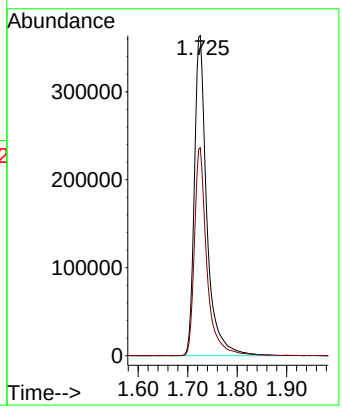


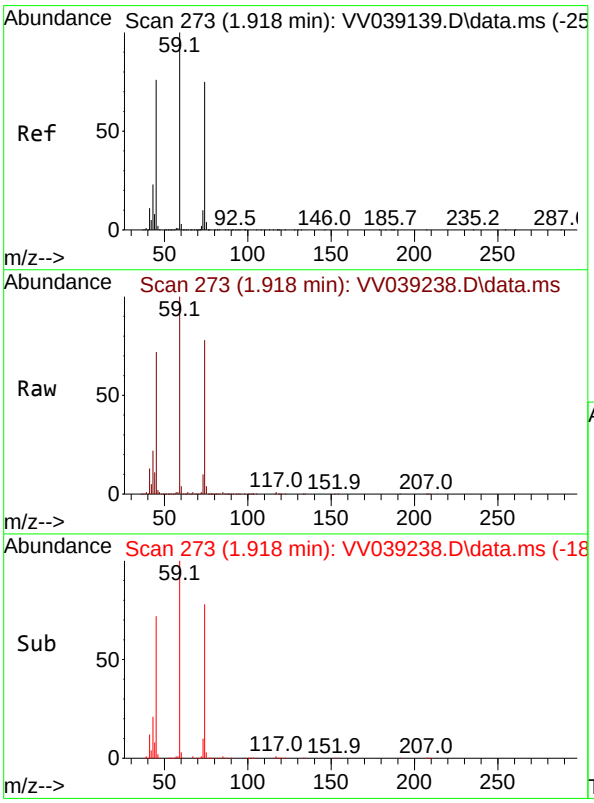

#7
Trichlorofluoromethane
Concen: 44.938 ug/l
RT: 1.725 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion:101 Resp: 640051

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.0 | 52.0 | 78.0 |

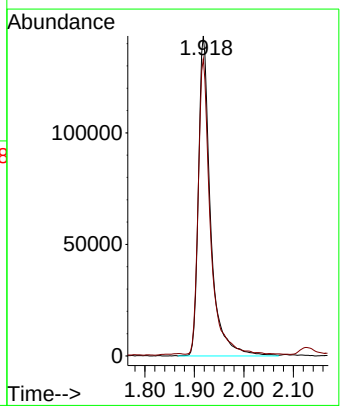


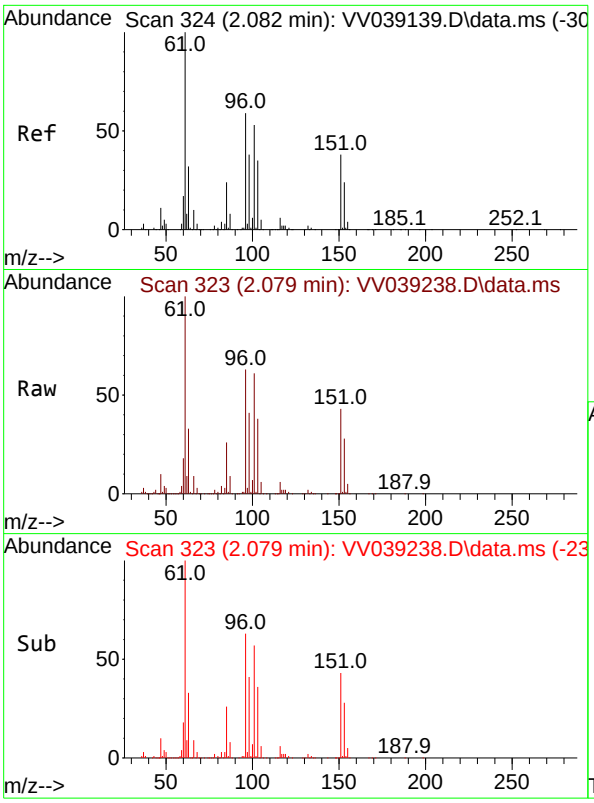




#8
Diethyl Ether
Concen: 46.448 ug/l
RT: 1.918 min Scan# 273
Delta R.T. 0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 74 Resp: 245588

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 91.9 | 49.6 | 148.8 |



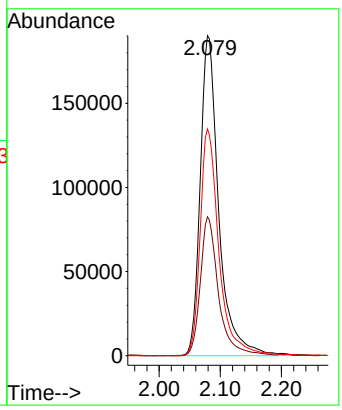


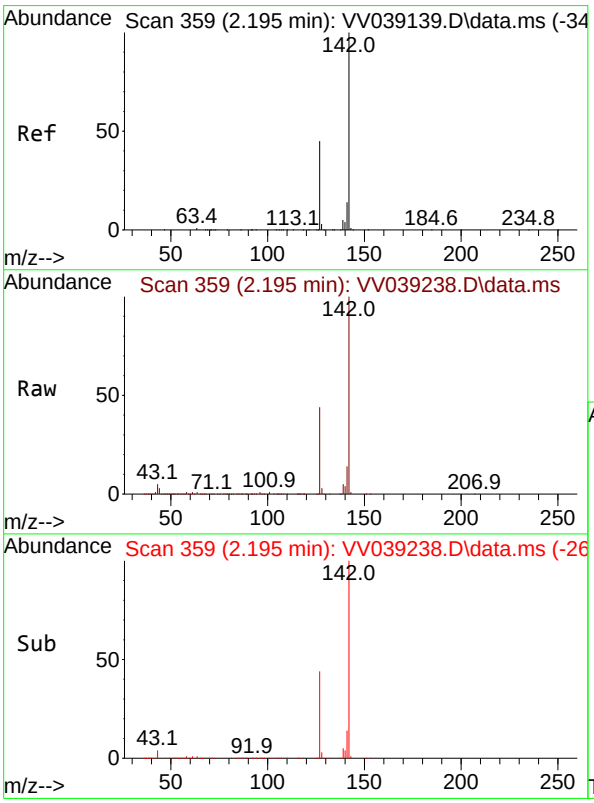

#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.252 ug/l
RT: 2.079 min Scan# 3
Delta R.T. -0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion:101 Resp: 400444

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 42.6 | 36.2 | 54.2 |
| 151 | 72.0 | 56.3 | 84.5 |

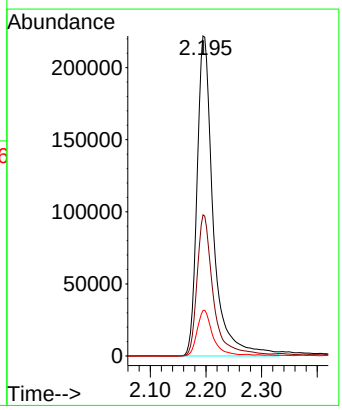


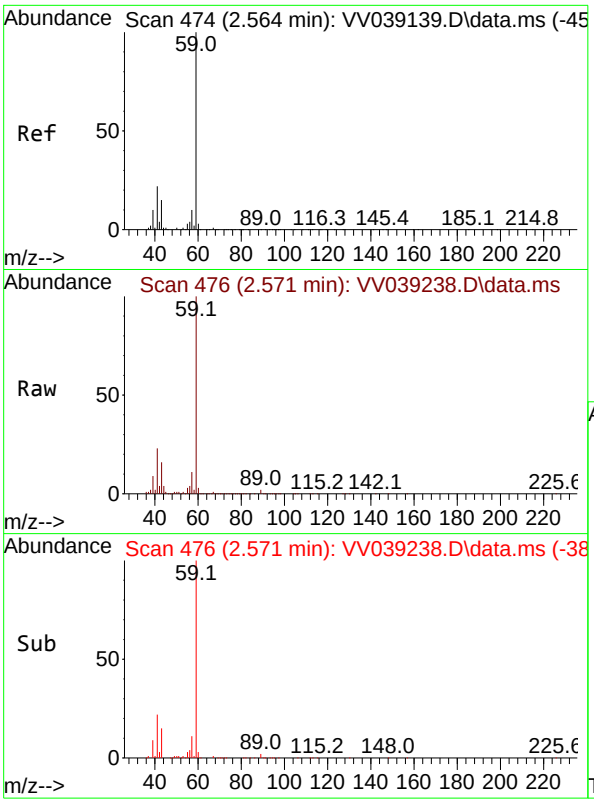




#10
Methyl Iodide
Concen: 55.784 ug/l
RT: 2.195 min Scan# 359
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion:142 Resp: 450189

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 44.3 | 36.3 | 54.5 |
| 141 | 13.7 | 11.2 | 16.8 |



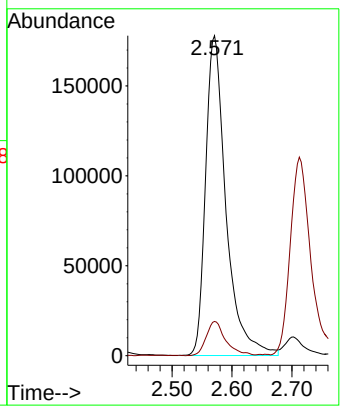


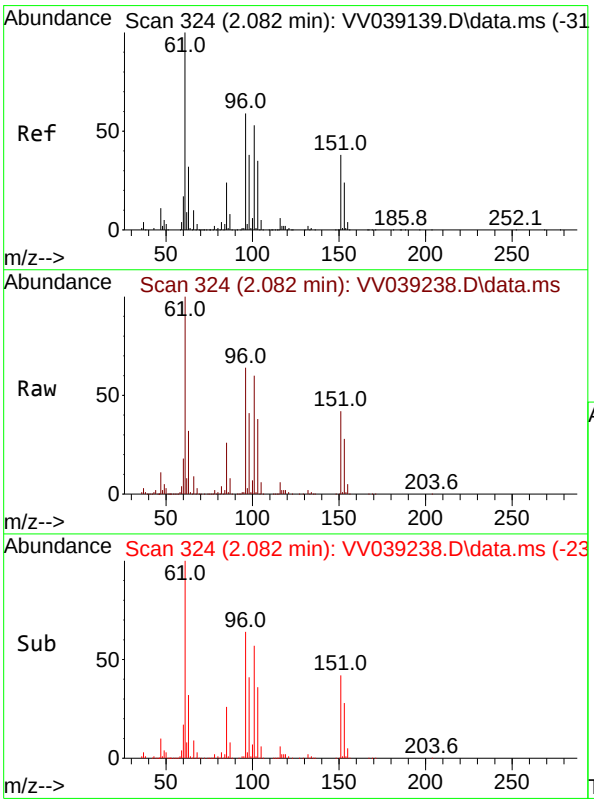

#11
Tert butyl alcohol
Concen: 254.549 ug/l
RT: 2.571 min Scan# 4
Delta R.T. 0.006 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion: 59 Resp: 421033

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.3 | 7.8 | 11.8 |

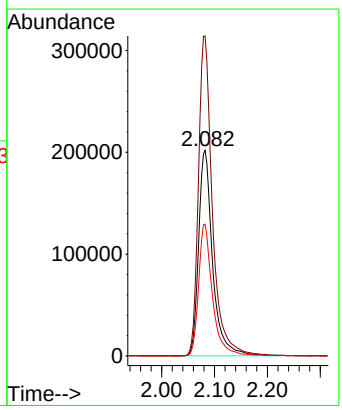


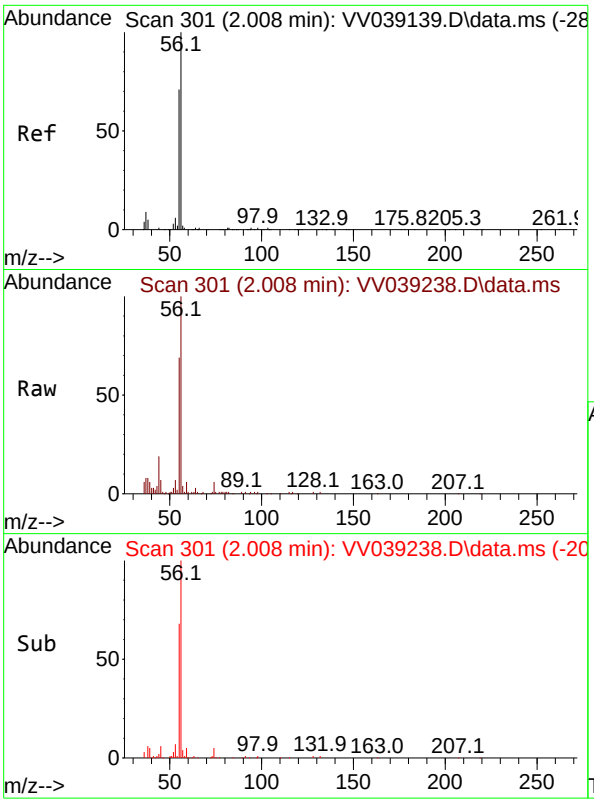




#12
1,1-Dichloroethene
Concen: 45.719 ug/l
RT: 2.082 min Scan# 324
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 96 Resp: 372736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 155.8 | 136.0 | 204.0 |
| 98 | 64.1 | 51.0 | 76.6 |



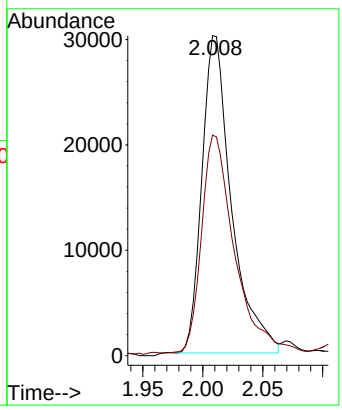


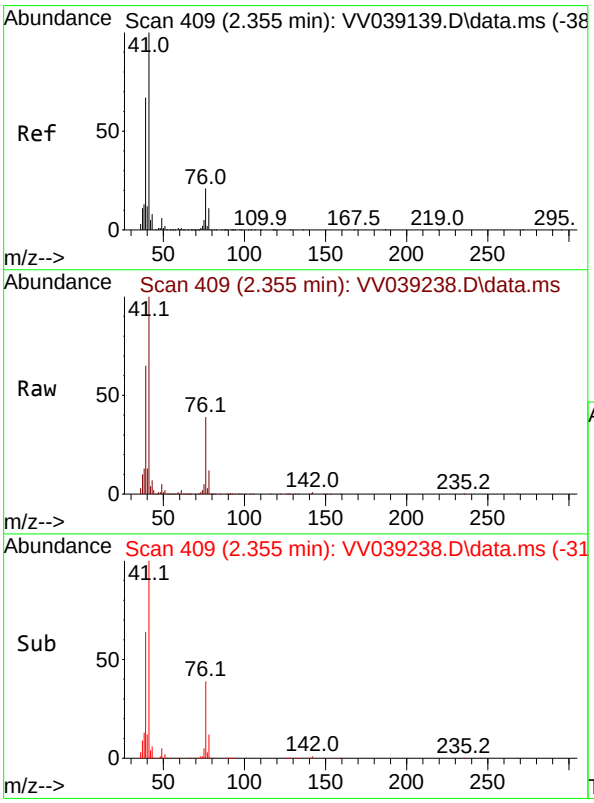

#13
Acrolein
Concen: 180.660 ug/l
RT: 2.008 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion: 56 Resp: 51851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 76.3 | 56.2 | 84.4 |

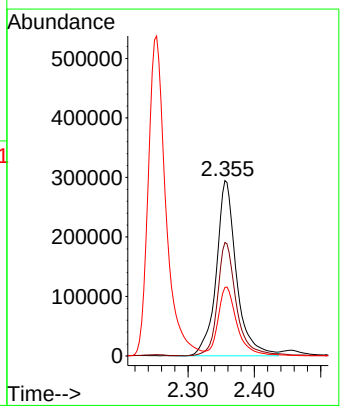


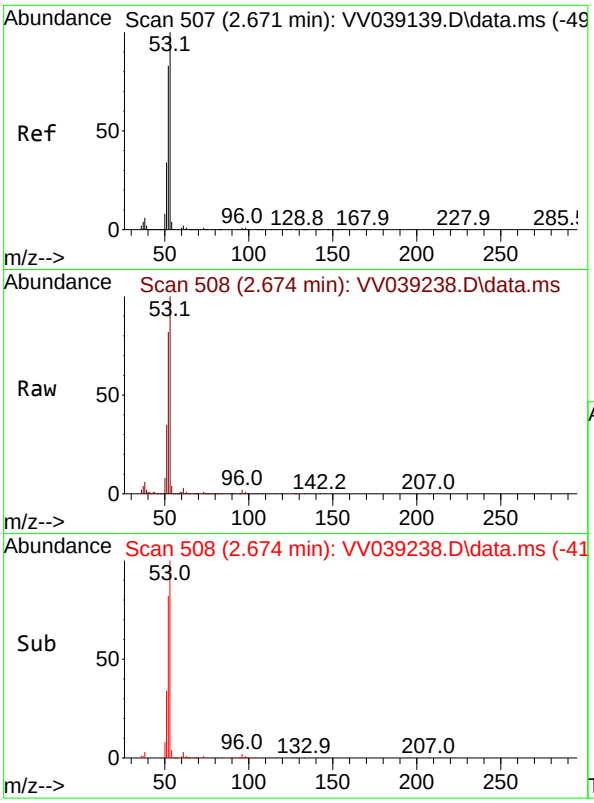




#14
Allyl chloride
Concen: 42.759 ug/l
RT: 2.355 min Scan# 409
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 41 Resp: 622696

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 60.8 | 51.0 | 76.6 |
| 76 | 37.0 | 28.2 | 42.4 |



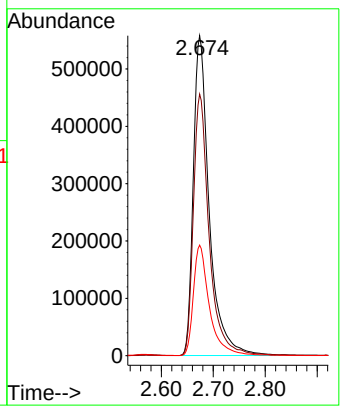


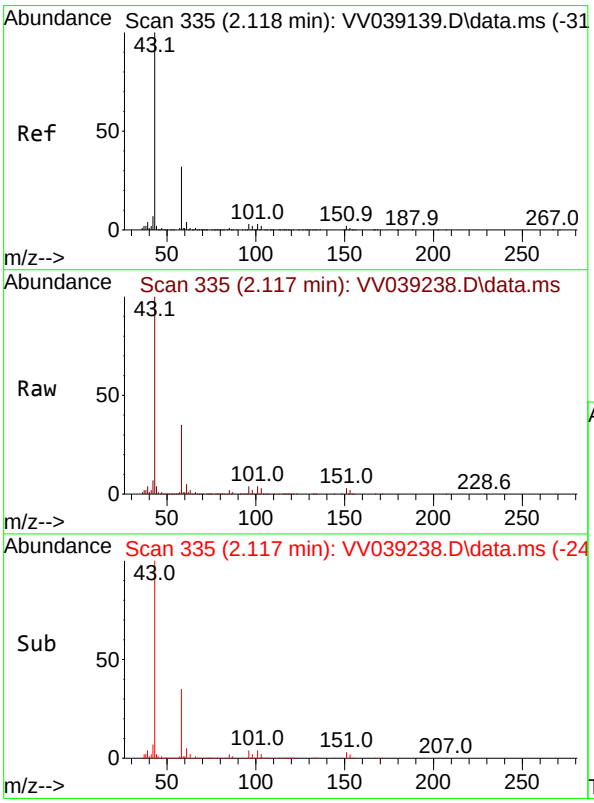

#15
Acrylonitrile
Concen: 223.752 ug/l
RT: 2.674 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion: 53 Resp: 1186396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 80.9 | 66.1 | 99.1 |
| 51 | 34.8 | 28.5 | 42.7 |

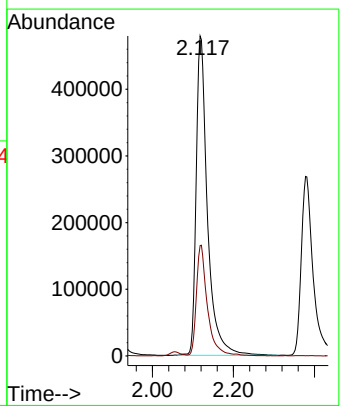


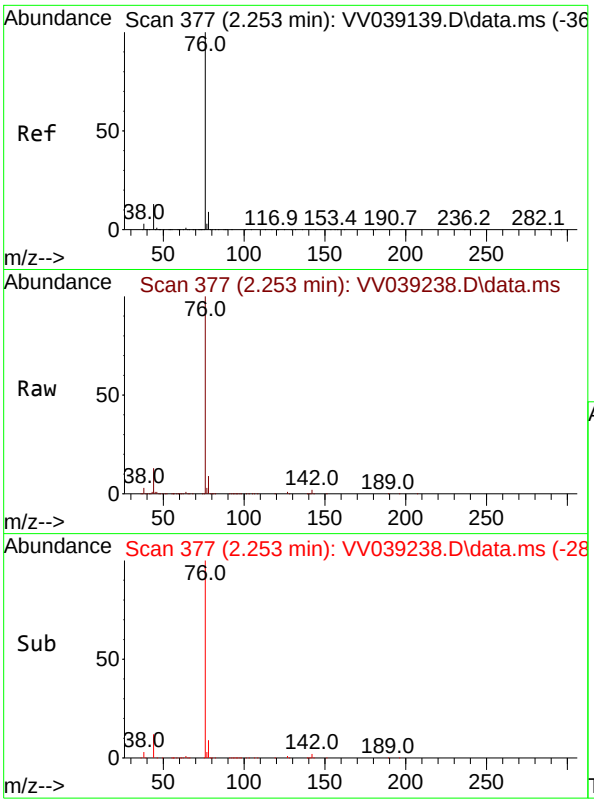




#16
Acetone
Concen: 187.048 ug/l
RT: 2.117 min Scan# 335
Delta R.T. -0.001 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 43 Resp: 924673

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 34.5 | 25.8 | 38.6 |



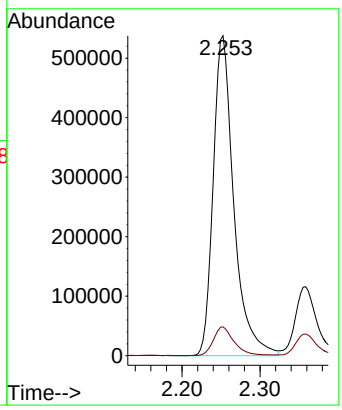


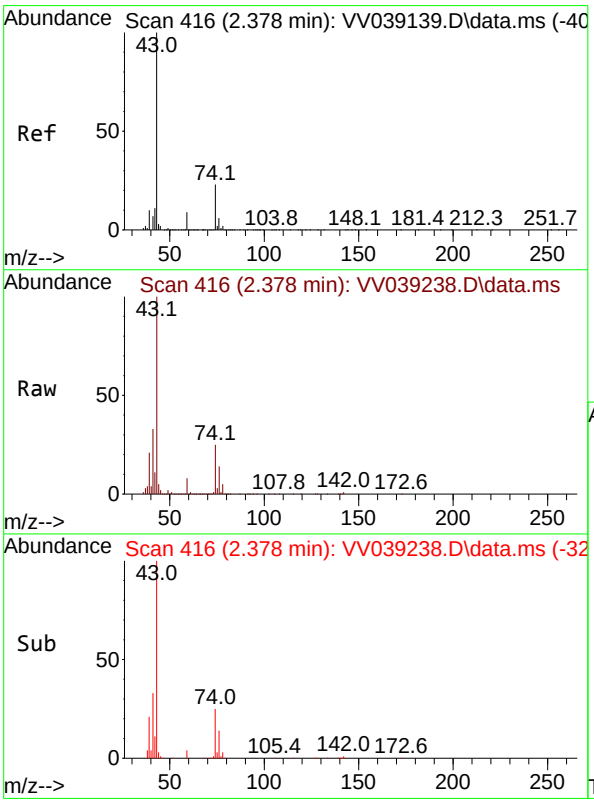

#17
Carbon Disulfide
Concen: 39.641 ug/l
RT: 2.253 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion: 76 Resp: 988393

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.0 | 7.4 | 11.0 |

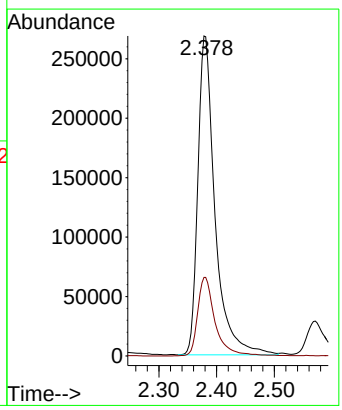


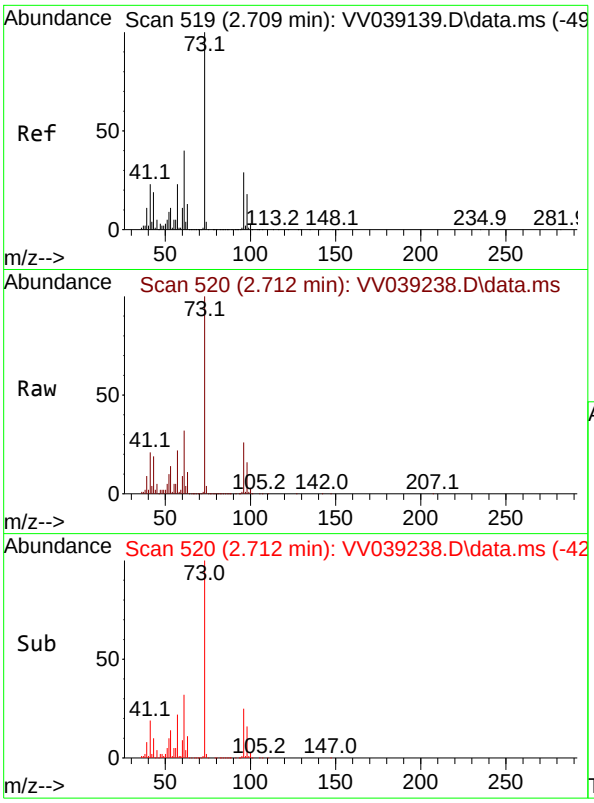




#18
Methyl Acetate
Concen: 47.853 ug/l
RT: 2.378 min Scan# 416
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 43 Resp: 554871

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 25.0 | 18.6 | 27.8 |



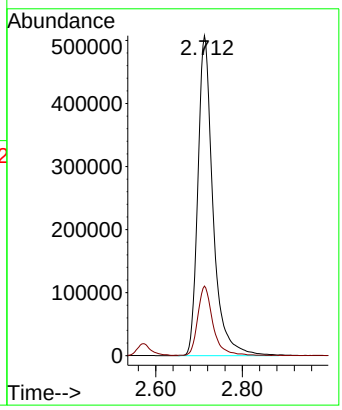


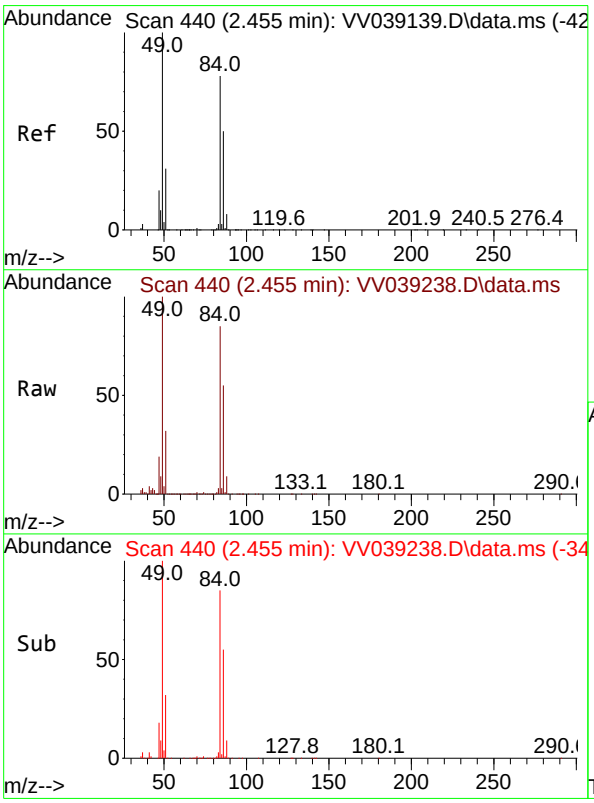

#19
Methyl tert-butyl Ether
Concen: 47.301 ug/l
RT: 2.712 min Scan# 5
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion: 73 Resp: 1228842

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.7 | 18.2 | 27.4 |

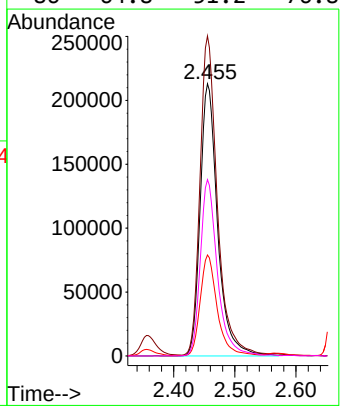


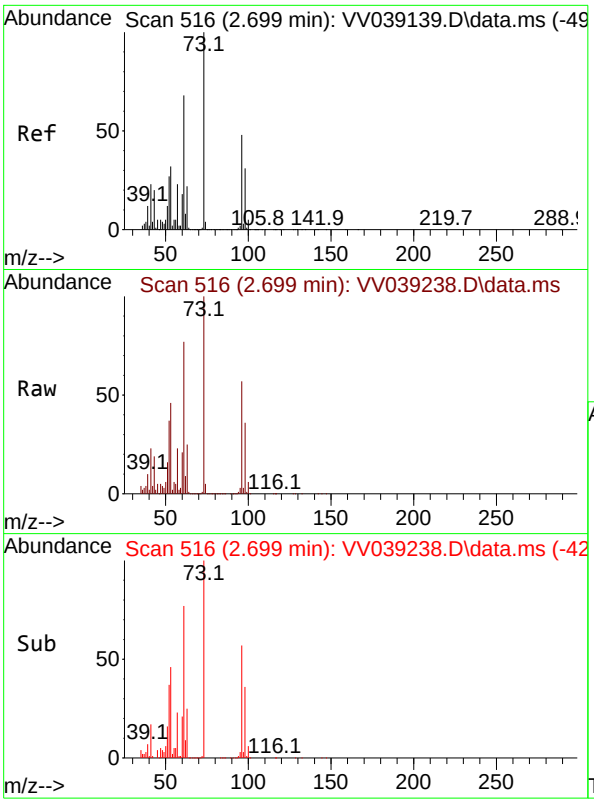




#20
Methylene Chloride
Concen: 50.097 ug/l
RT: 2.455 min Scan# 440
Delta R.T. 0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 84 Resp: 423573

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 117.2 | 102.8 | 154.2 |
| 51 | 36.9 | 31.9 | 47.9 |
| 86 | 64.8 | 51.2 | 76.8 |



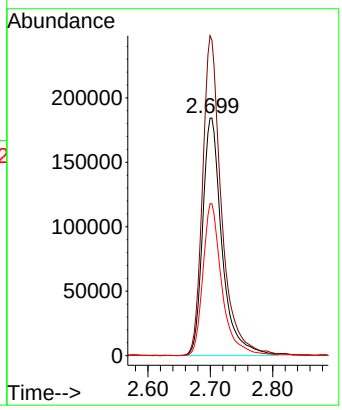


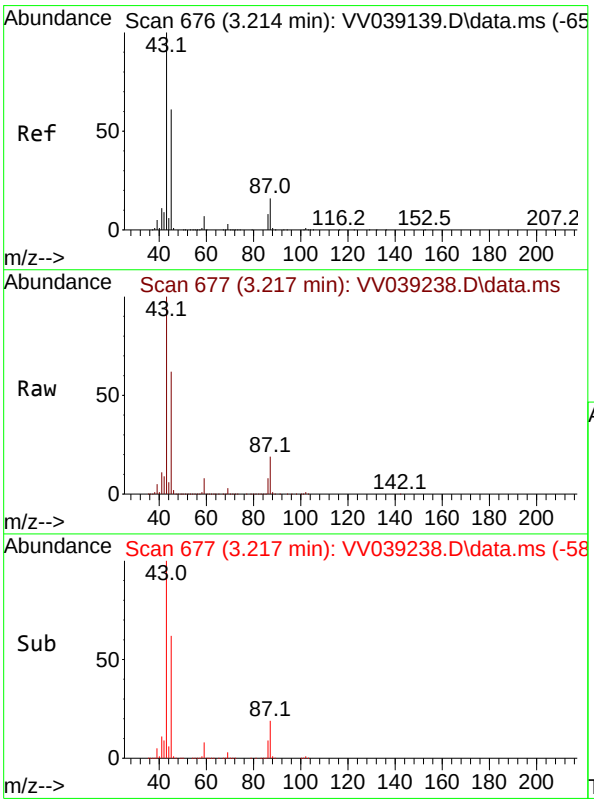

#21
trans-1,2-Dichloroethene
Concen: 45.709 ug/l
RT: 2.699 min Scan# 5
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion: 96 Resp: 396720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 134.7 | 112.8 | 169.2 |
| 98 | 64.0 | 51.1 | 76.7 |

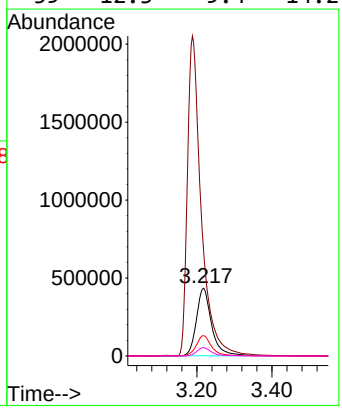


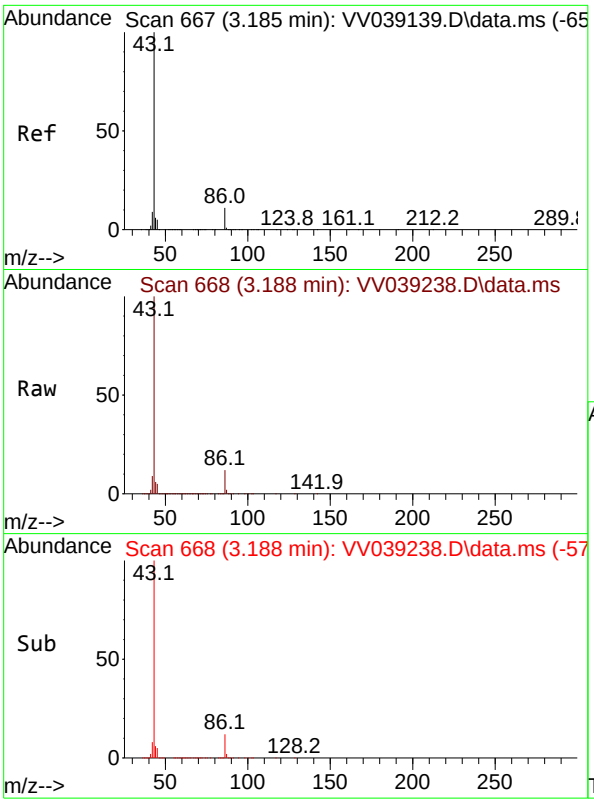




#22
Diisopropyl ether
Concen: 43.780 ug/l
RT: 3.217 min Scan# 677
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 45 Resp: 1219843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 161.3 | 130.9 | 196.3 |
| 87 | 30.0 | 21.1 | 31.7 |
| 59 | 12.3 | 9.4 | 14.2 |



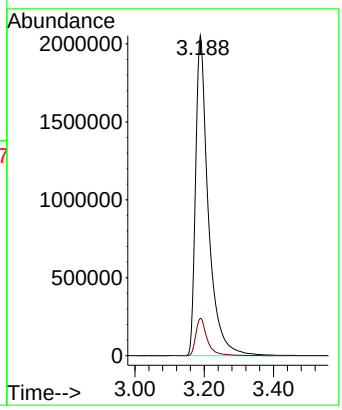


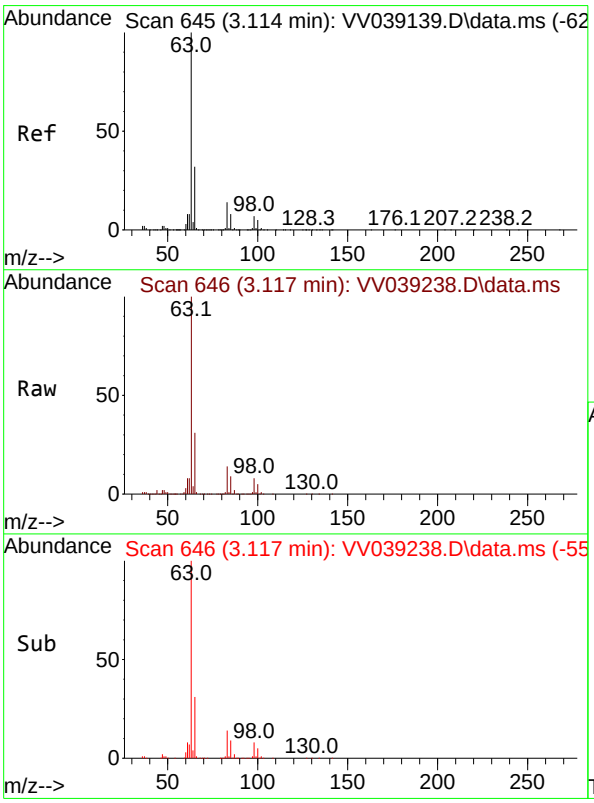

#23
Vinyl Acetate
Concen: 215.924 ug/l
RT: 3.188 min Scan# 6
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion: 43 Resp: 5263028

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.7 | 8.4 | 12.6 |

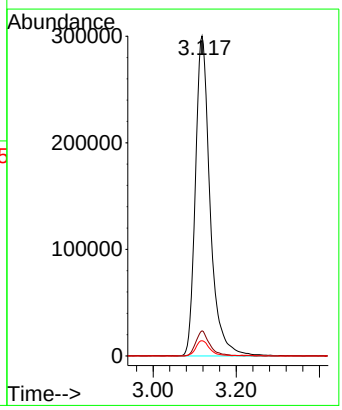


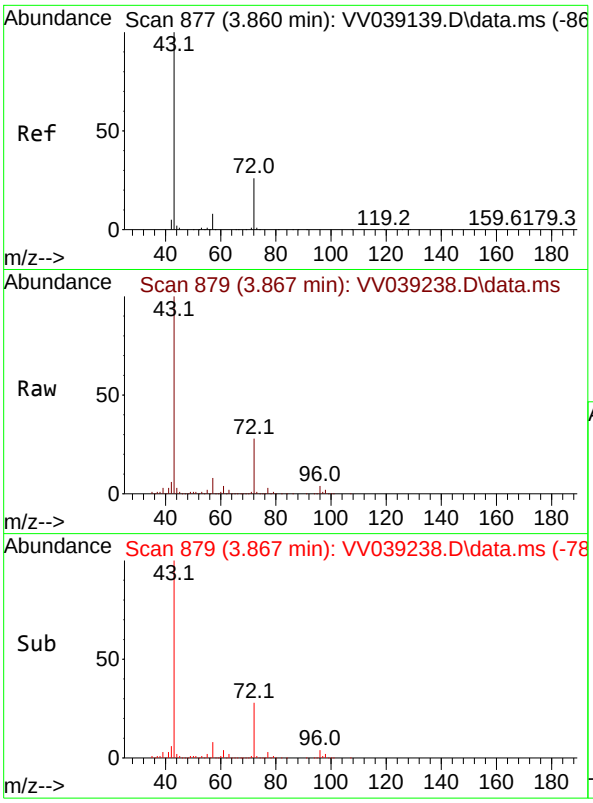




#24
1,1-Dichloroethane
Concen: 43.241 ug/l
RT: 3.117 min Scan# 646
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 63 Resp: 736796

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.9 | 3.4 | 10.2 |
| 100 | 4.7 | 2.2 | 6.6 |



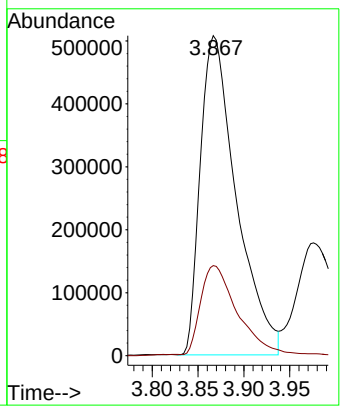


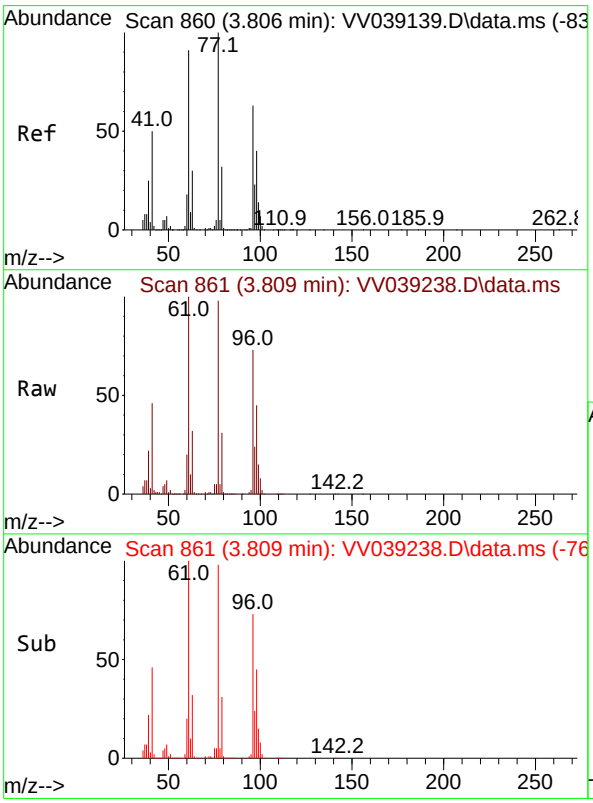

#25
2-Butanone
Concen: 221.647 ug/l
RT: 3.867 min Scan# 8
Delta R.T. 0.006 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion: 43 Resp: 1389008

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 27.8 | 21.0 | 31.6 |

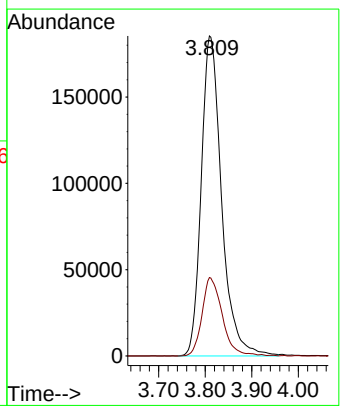


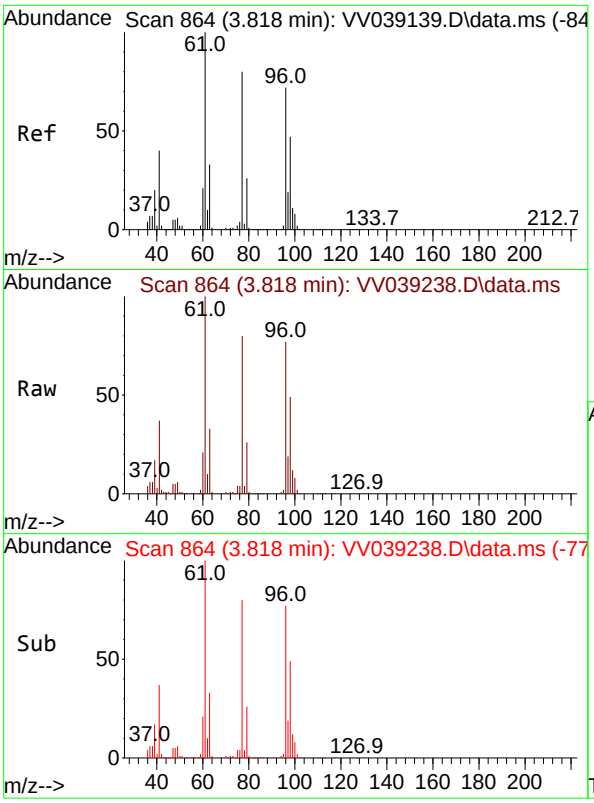




#26
2,2-Dichloropropane
Concen: 37.295 ug/l
RT: 3.809 min Scan# 861
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 77 Resp: 563462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 24.2 | 11.6 | 34.7 |



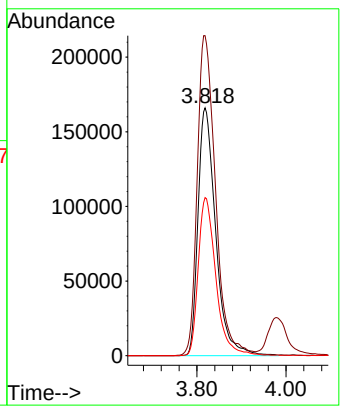


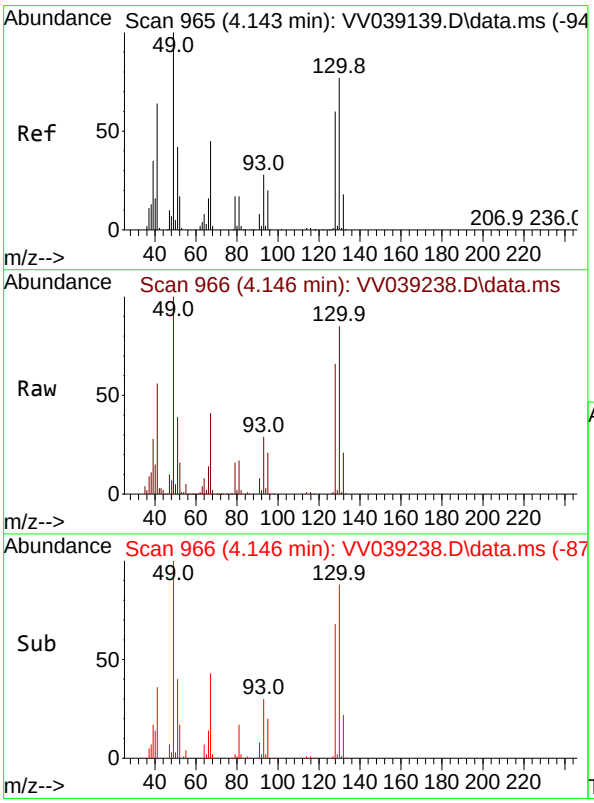

#27
cis-1,2-Dichloroethene
Concen: 47.857 ug/l
RT: 3.818 min Scan# 8
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion: 96 Resp: 458098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 133.6 | 0.0 | 286.4 |
| 98 | 63.6 | 0.0 | 126.6 |

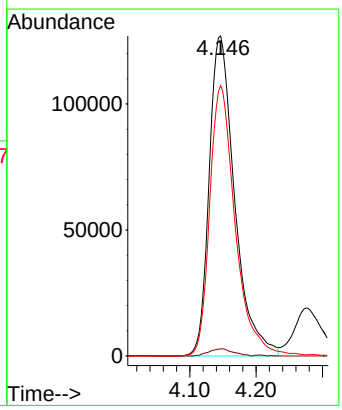


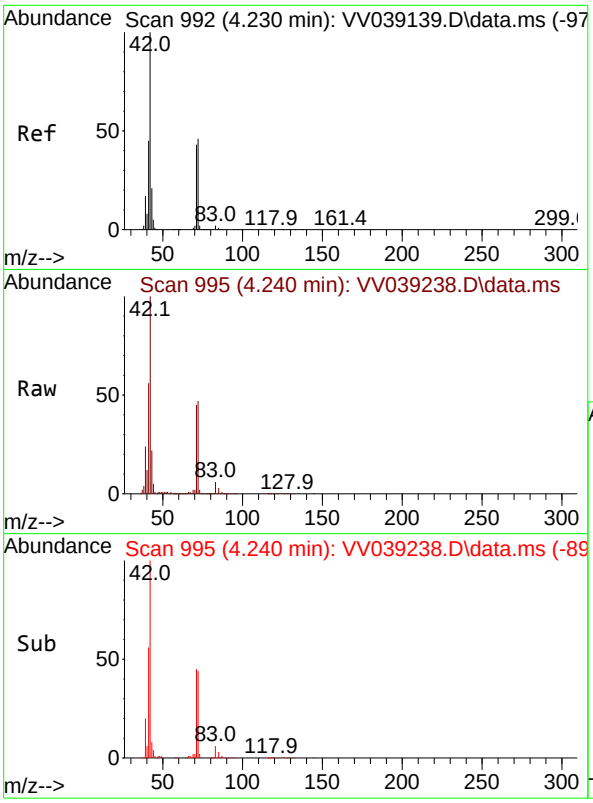




#28
Bromochloromethane
Concen: 45.116 ug/l
RT: 4.146 min Scan# 966
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 49 Resp: 339370

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.1 | 0.0 | 4.2 |
| 130 | 84.3 | 60.2 | 90.2 |



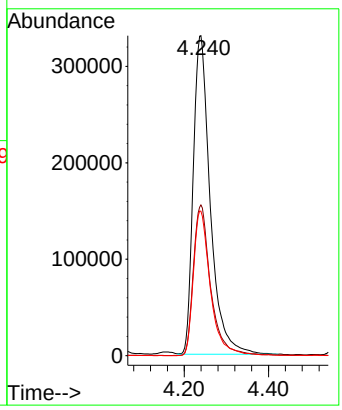


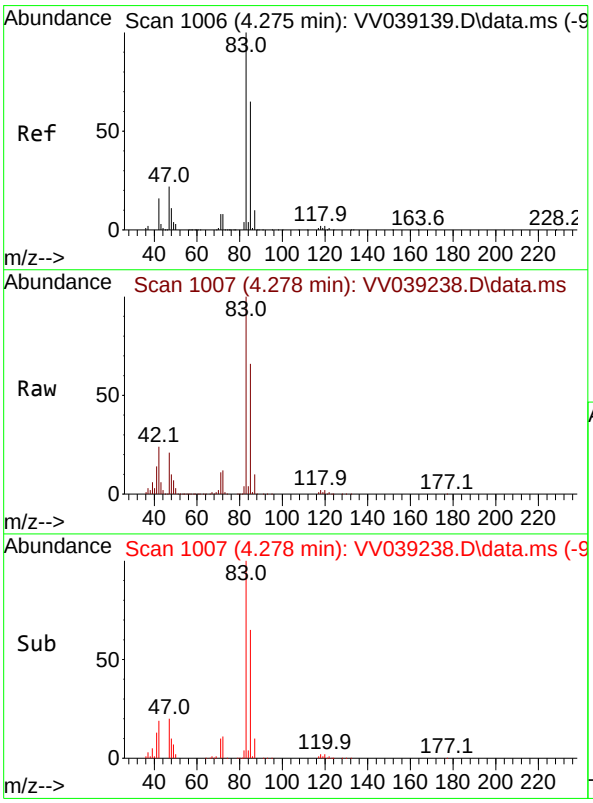

#29
Tetrahydrofuran
Concen: 236.103 ug/l
RT: 4.240 min Scan# 9
Delta R.T. 0.010 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion: 42 Resp: 926118

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 47.9 | 36.3 | 54.5 |
| 71 | 45.0 | 34.3 | 51.5 |

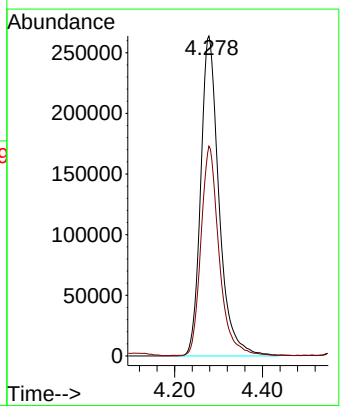


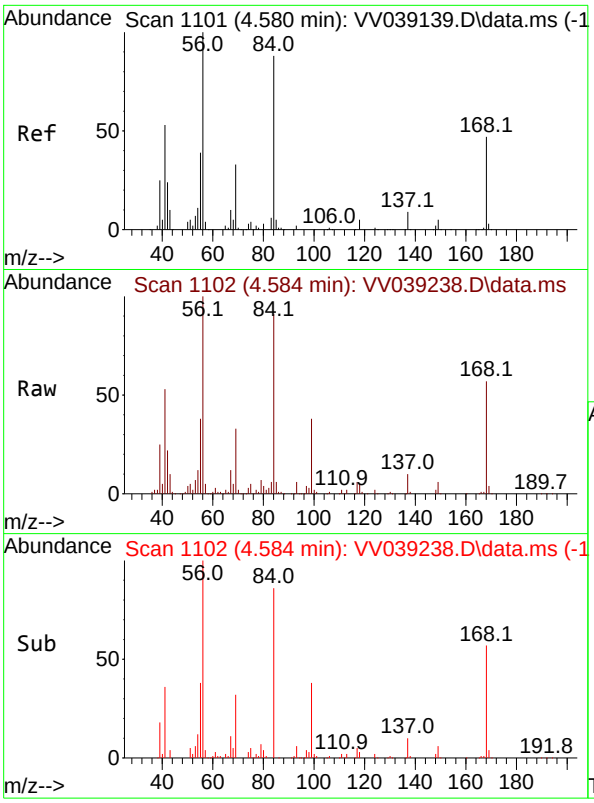




#30
Chloroform
Concen: 42.953 ug/l
RT: 4.278 min Scan# 1007
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 83 Resp: 764253

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.4 | 52.1 | 78.1 |



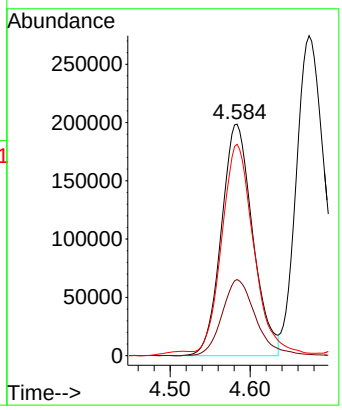


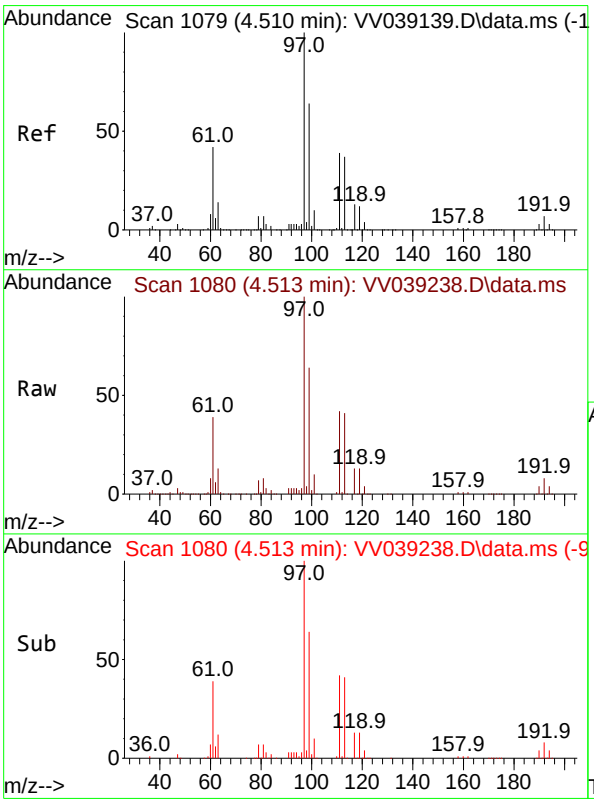

#31
Cyclohexane
Concen: 38.778 ug/l
RT: 4.584 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion: 56 Resp: 541266

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 32.9 | 26.2 | 39.2 |
| 84 | 89.5 | 70.3 | 105.5 |

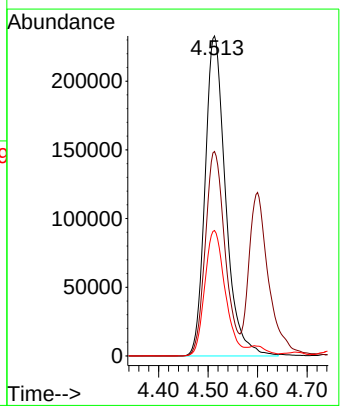


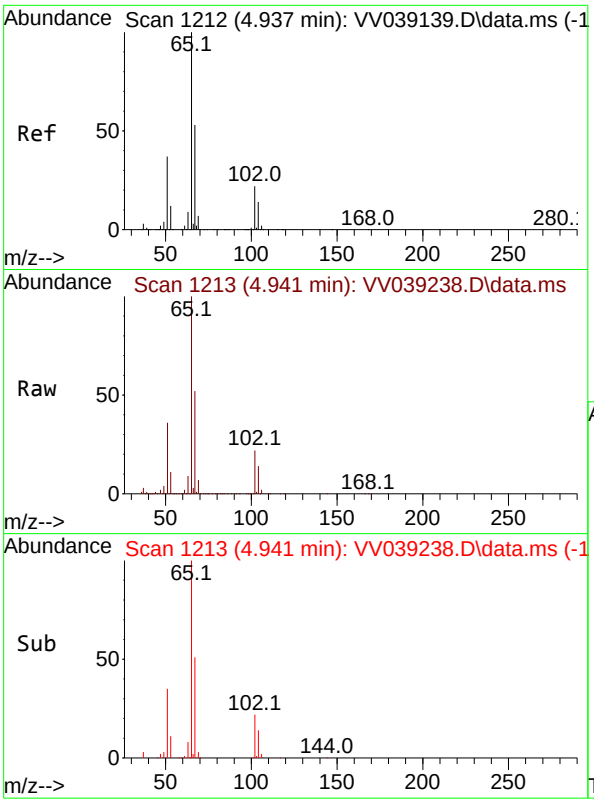




#32
1,1,1-Trichloroethane
Concen: 43.554 ug/l
RT: 4.513 min Scan# 1080
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 97 Resp: 670890

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 61.3 | 49.6 | 74.4 |
| 61 | 39.2 | 34.5 | 51.7 |



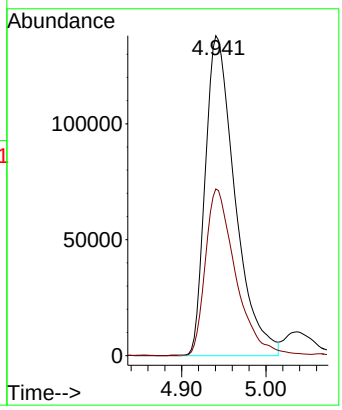


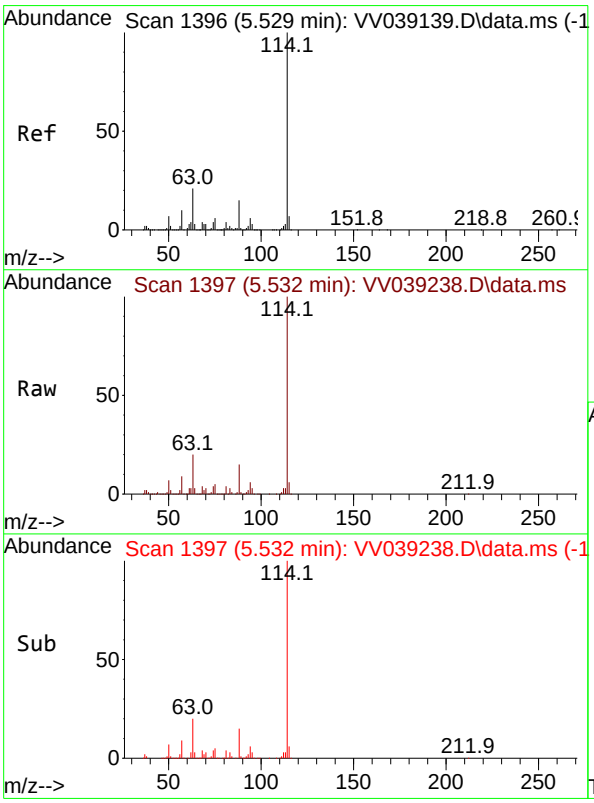

#33
1,2-Dichloroethane-d4
Concen: 43.224 ug/l
RT: 4.941 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion: 65 Resp: 338268

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.5 | 0.0 | 107.0 |

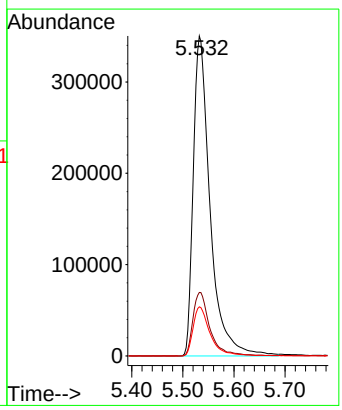


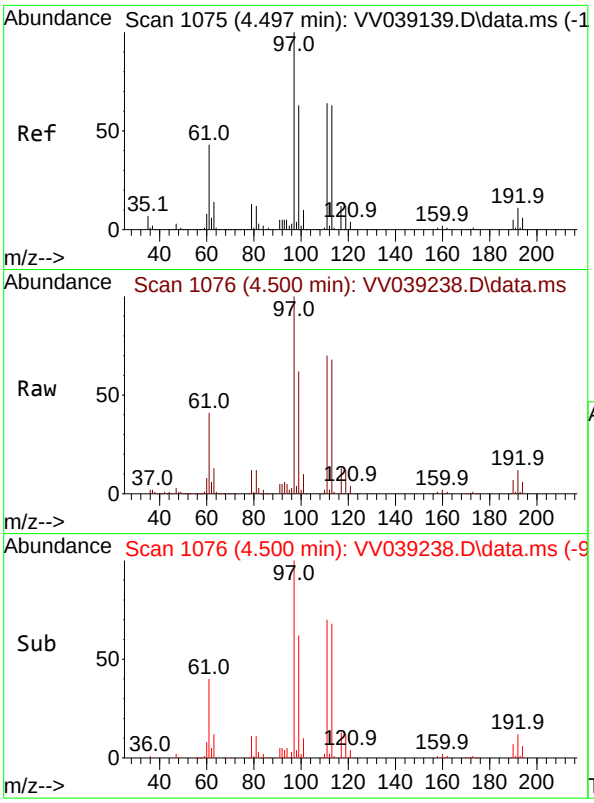




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.532 min Scan# 1397
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion:114 Resp: 801849

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.9 | 0.0 | 42.6 |
| 88 | 15.4 | 0.0 | 30.8 |



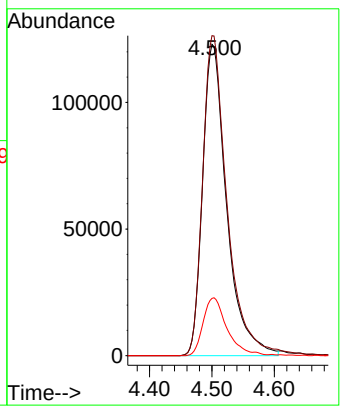


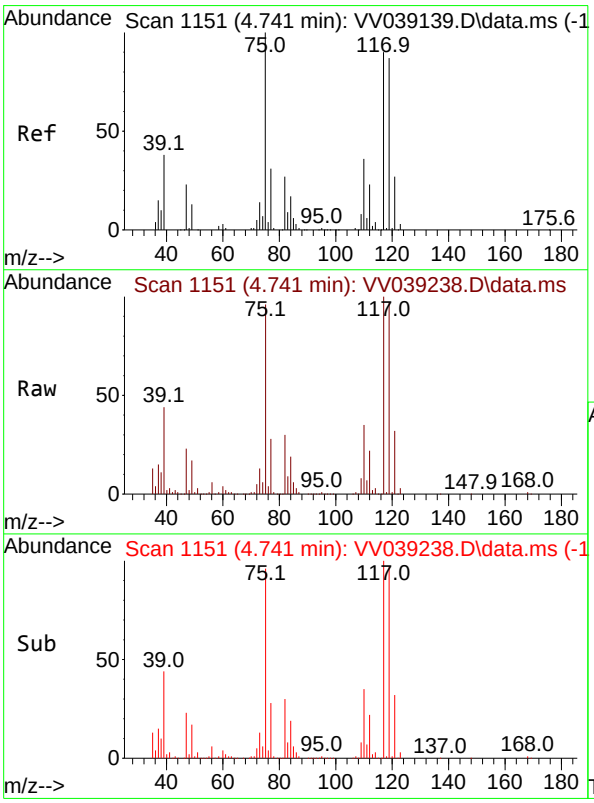

#35
Dibromofluoromethane
Concen: 51.227 ug/l
RT: 4.500 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion:113 Resp: 330222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 104.6 | 82.4 | 123.6 |
| 192 | 18.5 | 13.8 | 20.8 |

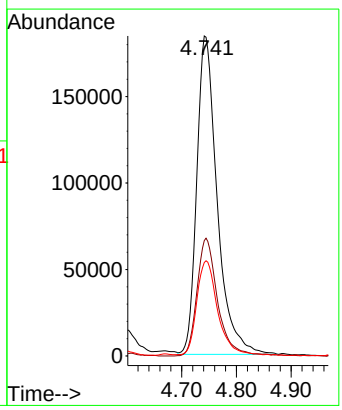


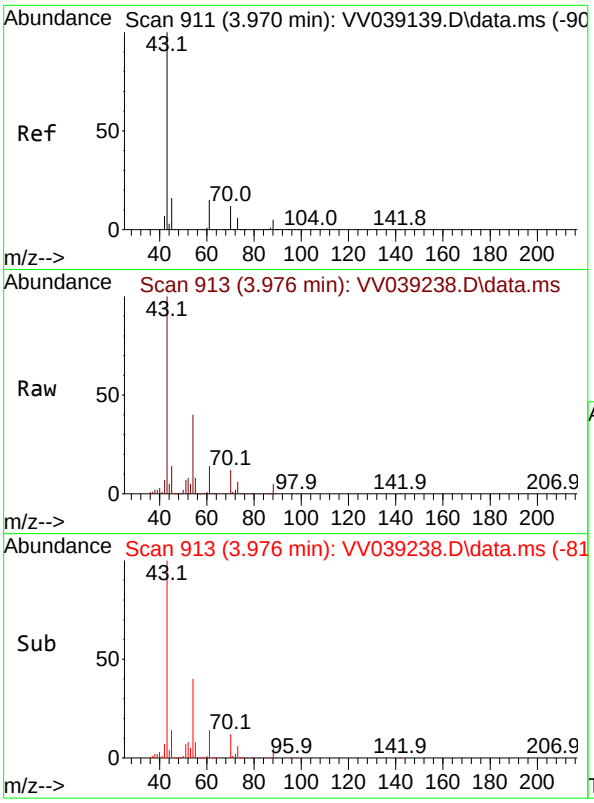




#36
1,1-Dichloropropene
Concen: 48.984 ug/l
RT: 4.741 min Scan# 1151
Delta R.T. 0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 75 Resp: 477402

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 37.1 | 18.1 | 54.1 |
| 77 | 29.7 | 24.8 | 37.2 |



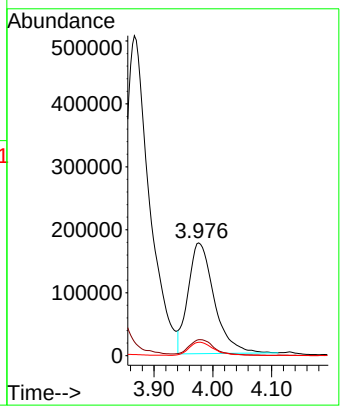


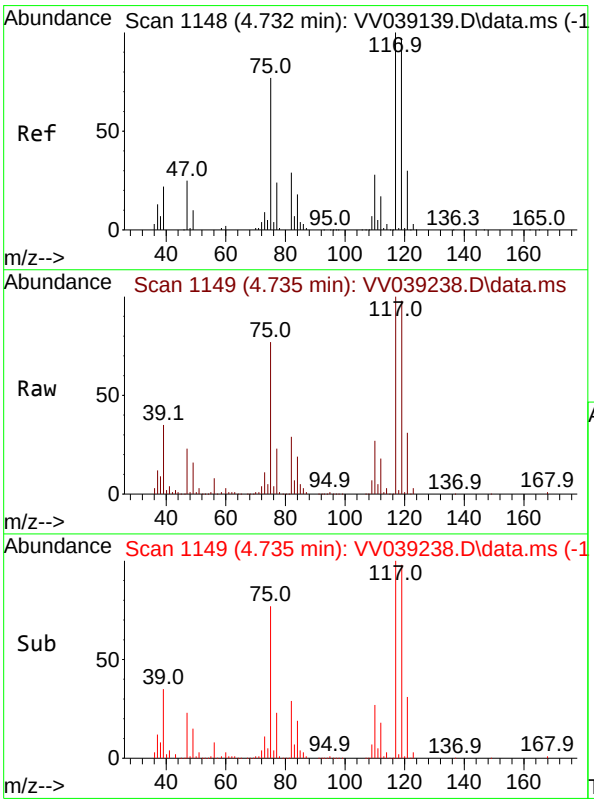

#37
Ethyl Acetate
Concen: 45.824 ug/l
RT: 3.976 min Scan# 91
Delta R.T. 0.006 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion: 43 Resp: 541921

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.4 | 10.3 | 15.5 |
| 70 | 11.5 | 8.0 | 12.0 |

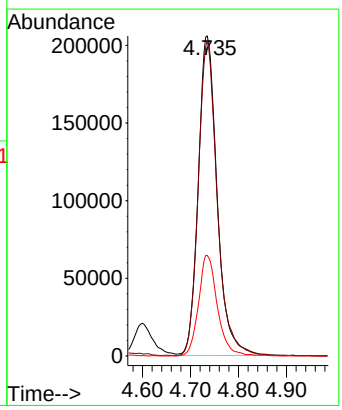


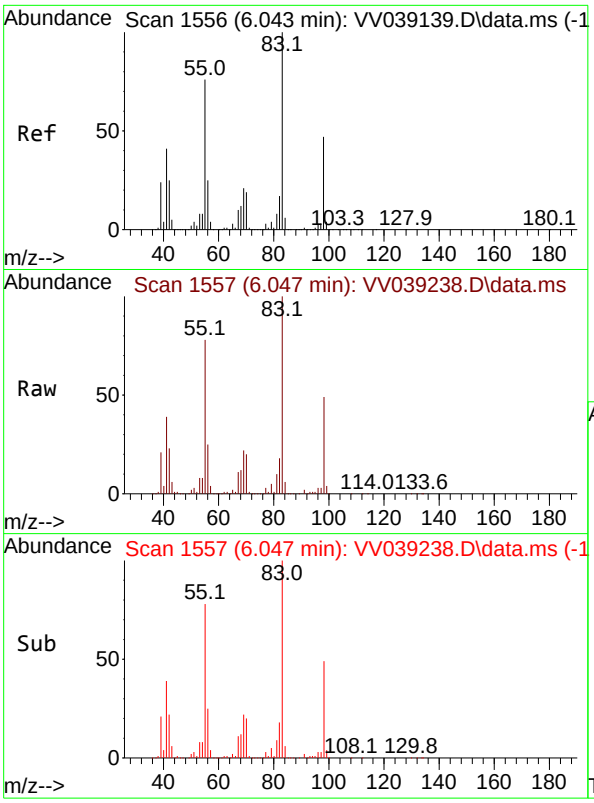




#38
Carbon Tetrachloride
Concen: 47.413 ug/l
RT: 4.735 min Scan# 1149
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion:117 Resp: 564742

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 98.4 | 77.2 | 115.8 |
| 121 | 31.5 | 24.2 | 36.2 |



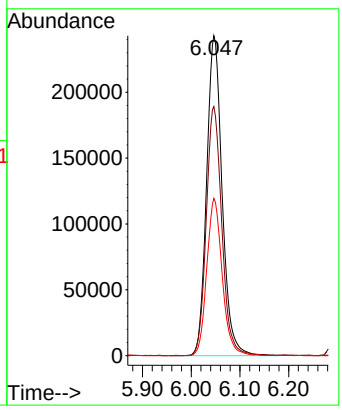


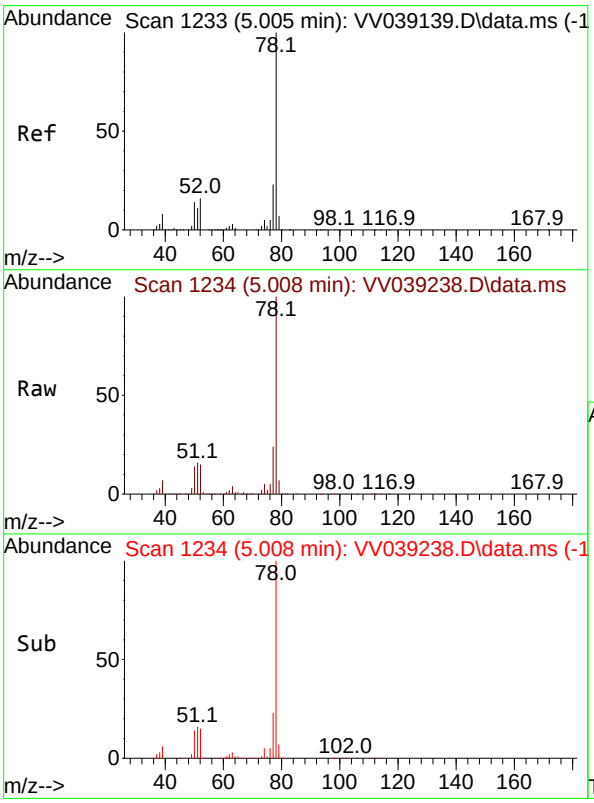

#39
Methylcyclohexane
Concen: 45.693 ug/l
RT: 6.047 min Scan# 1
Delta R.T. 0.004 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion: 83 Resp: 537787

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 77.8 | 60.5 | 90.7 |
| 98 | 49.2 | 37.8 | 56.6 |

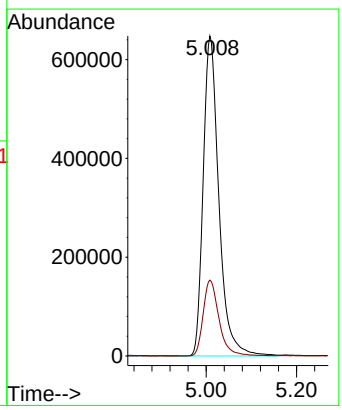


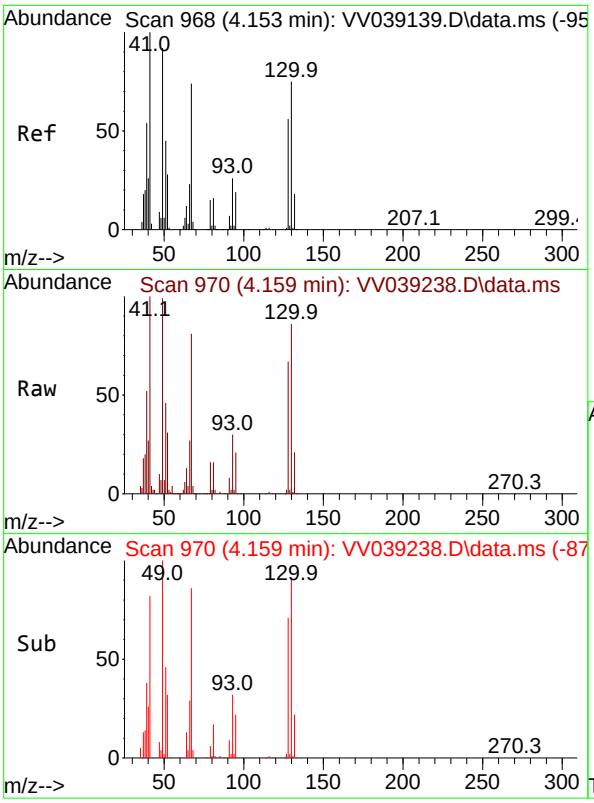




#40
Benzene
Concen: 49.112 ug/l
RT: 5.008 min Scan# 1234
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 78 Resp: 1558660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.7 | 18.7 | 28.1 |



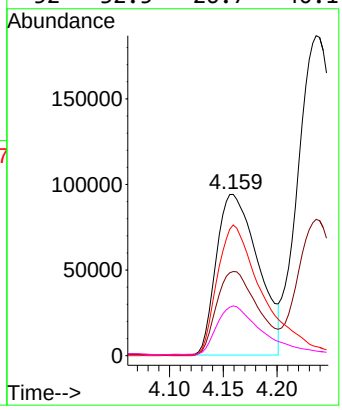


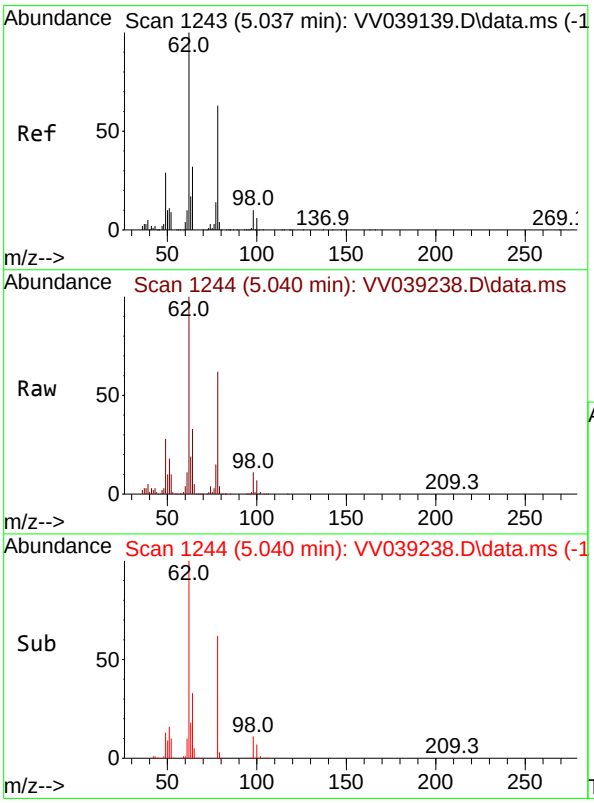

#41
Methacrylonitrile
Concen: 47.642 ug/l
RT: 4.159 min Scan# 9
Delta R.T. 0.006 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion: 41 Resp: 254239

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 51.6 | 42.2 | 63.2 |
| 67 | 90.9 | 67.9 | 101.9 |
| 52 | 32.5 | 26.7 | 40.1 |

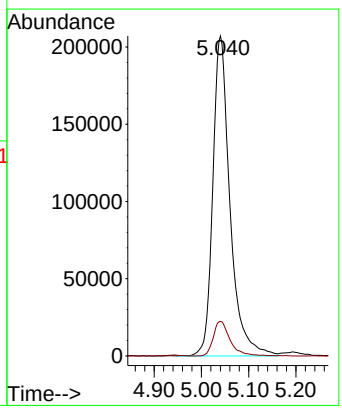


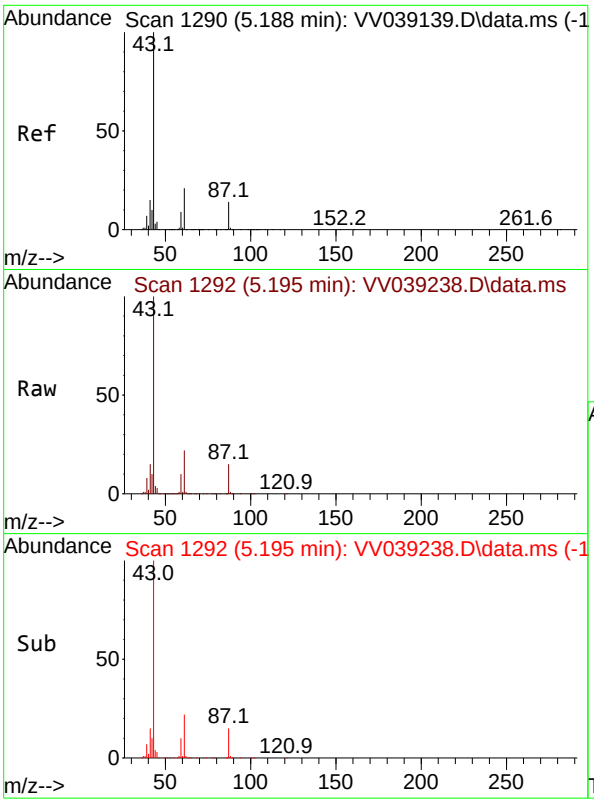




#42
1,2-Dichloroethane
Concen: 47.139 ug/l
RT: 5.040 min Scan# 1244
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 62 Resp: 524185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.5 | 0.0 | 19.2 |



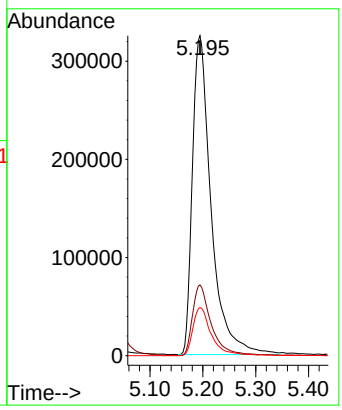


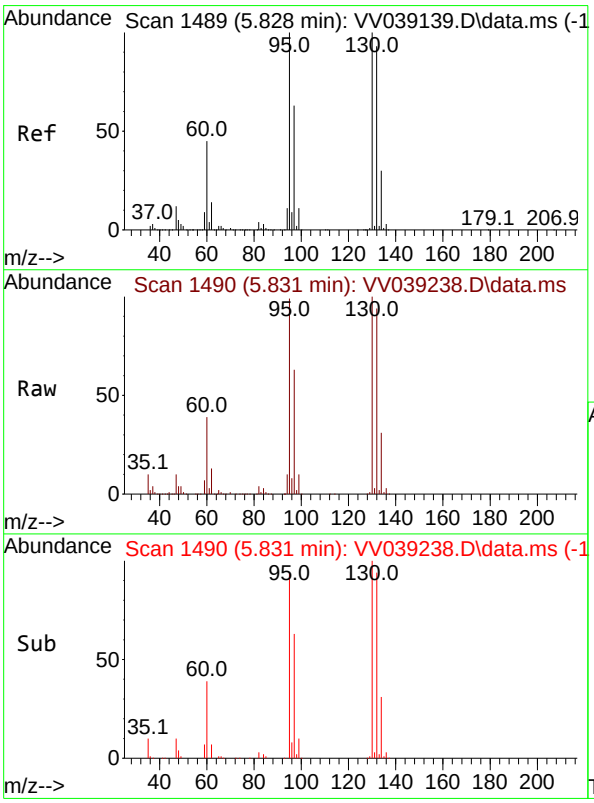

#43
Isopropyl Acetate
Concen: 49.723 ug/l
RT: 5.195 min Scan# 1
Delta R.T. 0.006 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion: 43 Resp: 801758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 21.9 | 15.9 | 23.9 |
| 87 | 14.8 | 11.0 | 16.6 |

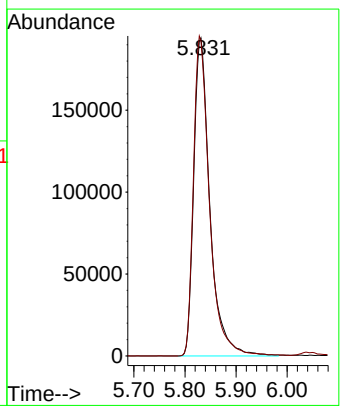


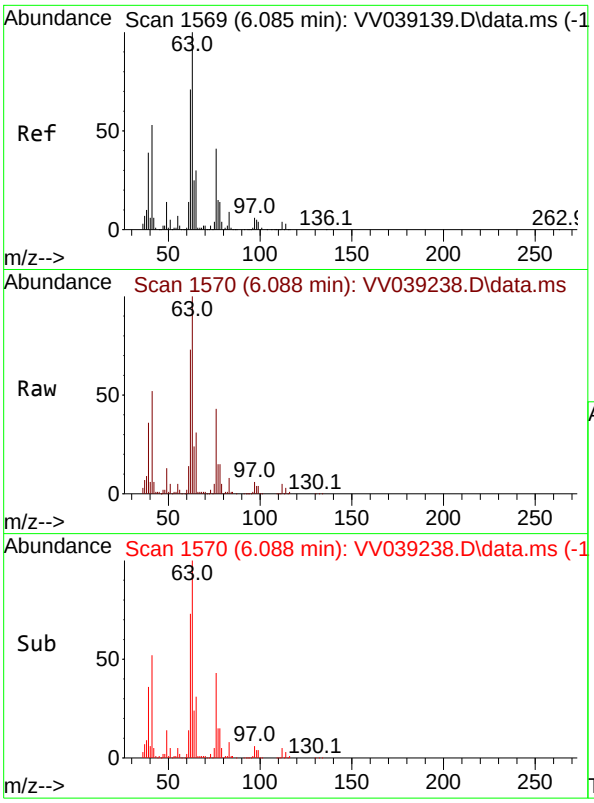




#44
Trichloroethene
Concen: 58.214 ug/l
RT: 5.831 min Scan# 1490
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion:130 Resp: 426325

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 99.1 | 0.0 | 199.2 |



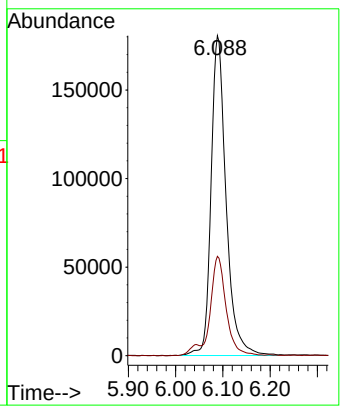


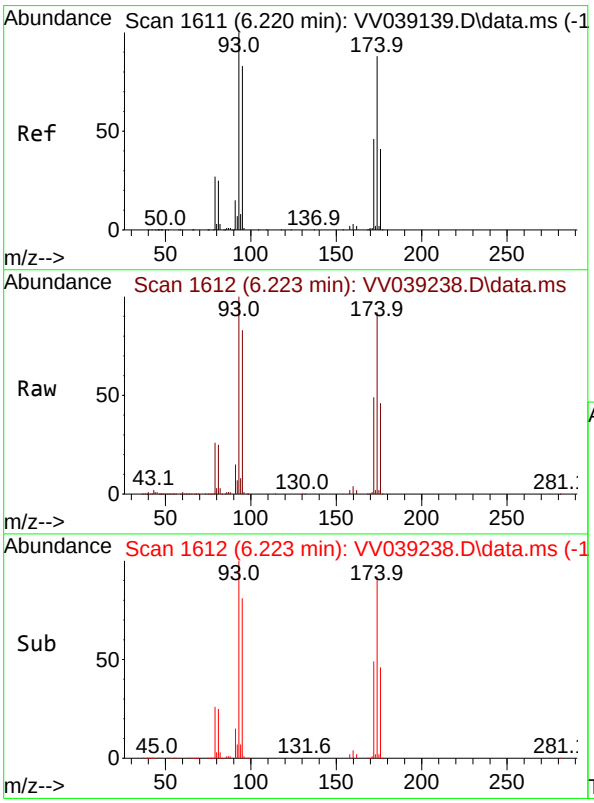

#45
1,2-Dichloropropane
Concen: 50.561 ug/l
RT: 6.088 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion: 63 Resp: 398845

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.0 | 23.7 | 35.5 |

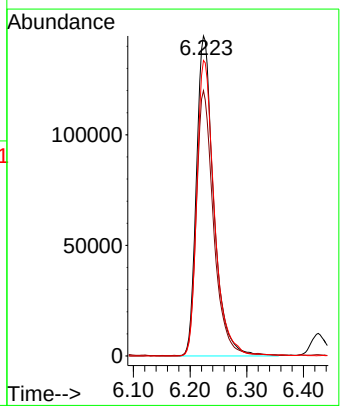


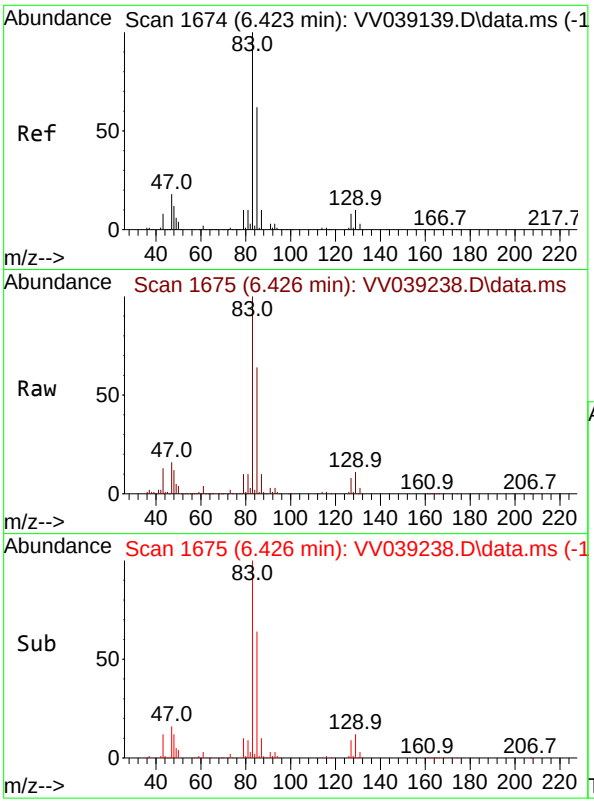




#46
Dibromomethane
Concen: 50.709 ug/l
RT: 6.223 min Scan# 1612
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 93 Resp: 306161

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 81.7 | 65.5 | 98.3 |
| 174 | 93.5 | 69.0 | 103.4 |



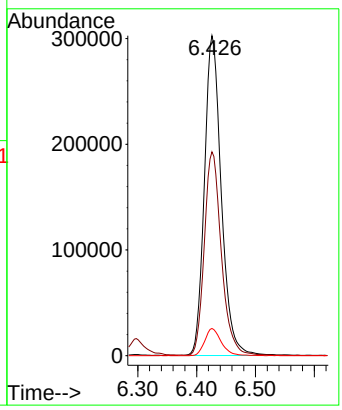


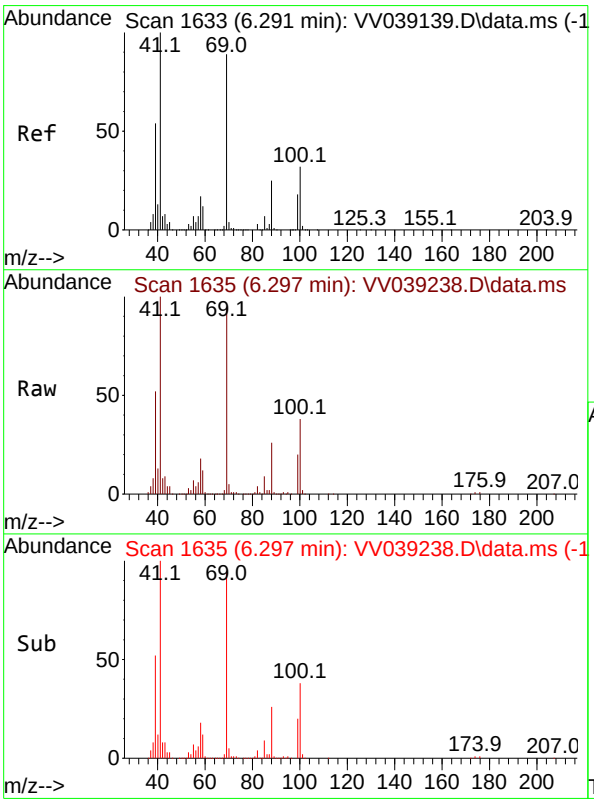

#47
Bromodichloromethane
Concen: 48.412 ug/l
RT: 6.426 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion: 83 Resp: 604268

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.6 | 49.7 | 74.5 |
| 127 | 8.5 | 6.6 | 9.8 |

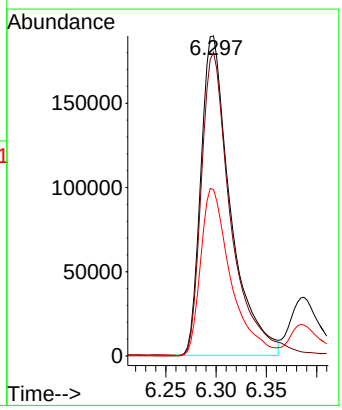


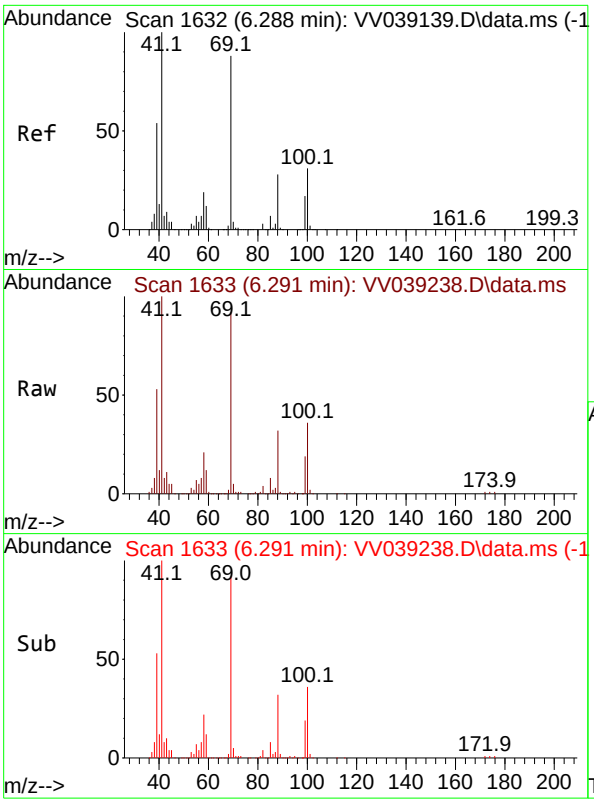




#48
Methyl methacrylate
Concen: 52.989 ug/l
RT: 6.297 min Scan# 1635
Delta R.T. 0.006 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 41 Resp: 387316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 96.6 | 72.4 | 108.6 |
| 39 | 52.9 | 42.5 | 63.7 |



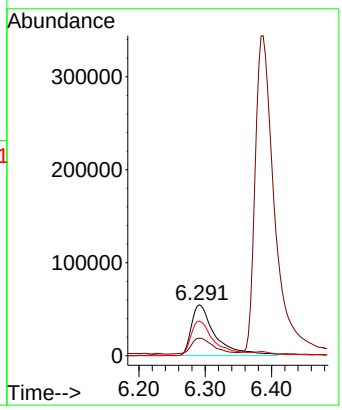


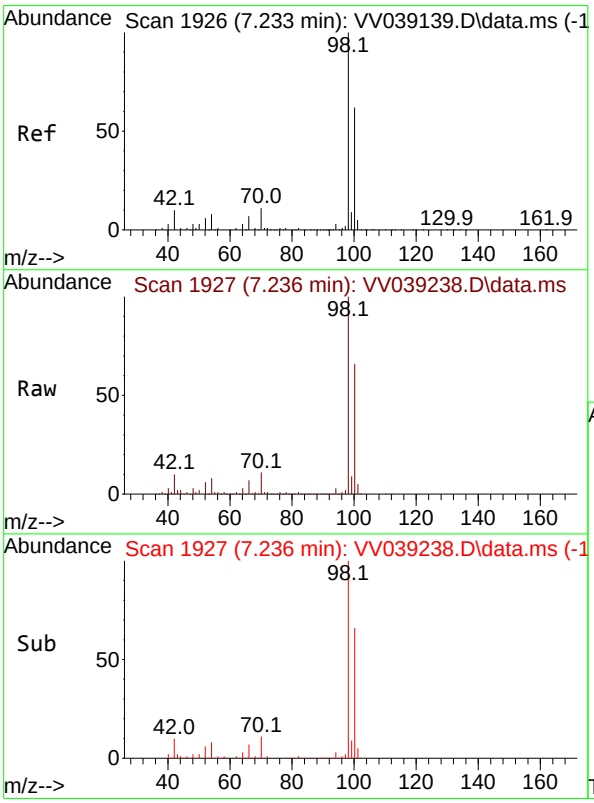

#49
1,4-Dioxane
Concen: 1158.527 ug/l
RT: 6.291 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion: 88 Resp: 136656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 29.9 | 25.1 | 37.7 |
| 58 | 66.5 | 53.6 | 80.4 |

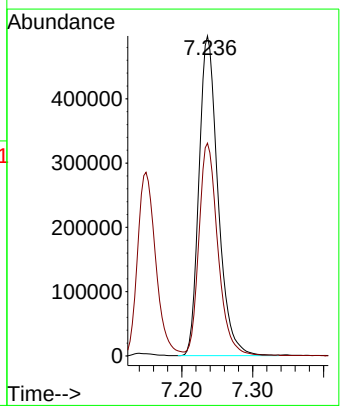


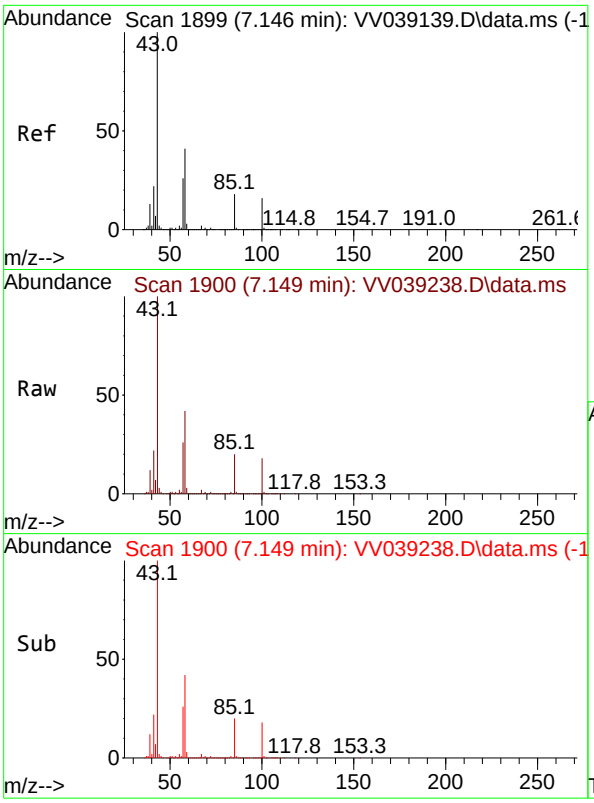




#50
Toluene-d8
Concen: 48.832 ug/l
RT: 7.236 min Scan# 1927
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 98 Resp: 924513

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.9 | 52.2 | 78.2 |



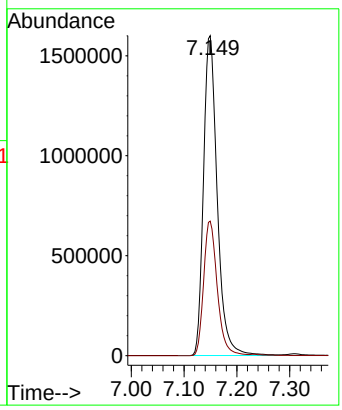


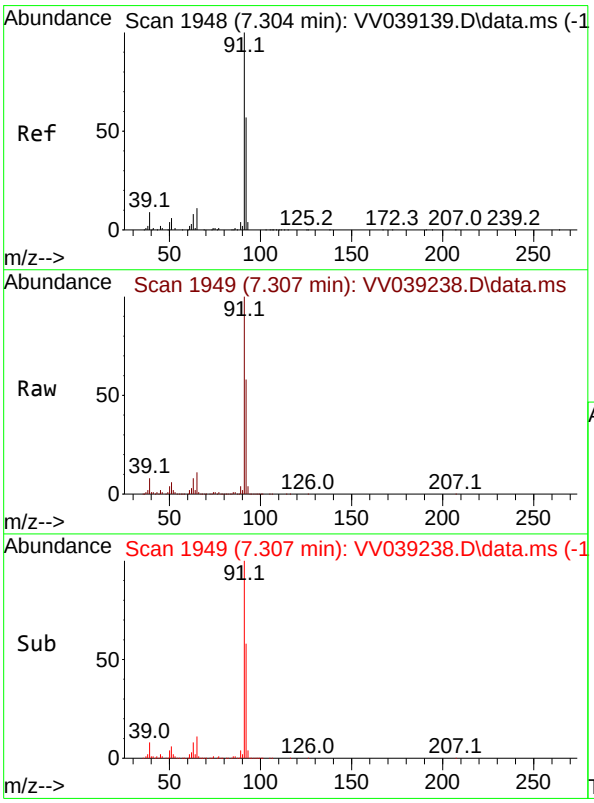

#51
4-Methyl-2-Pentanone
Concen: 272.884 ug/l
RT: 7.149 min Scan# 1
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion: 43 Resp: 2894765

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 41.8 | 32.3 | 48.5 |

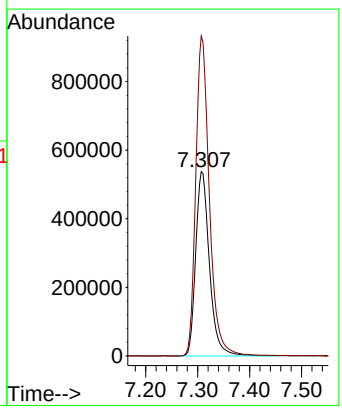


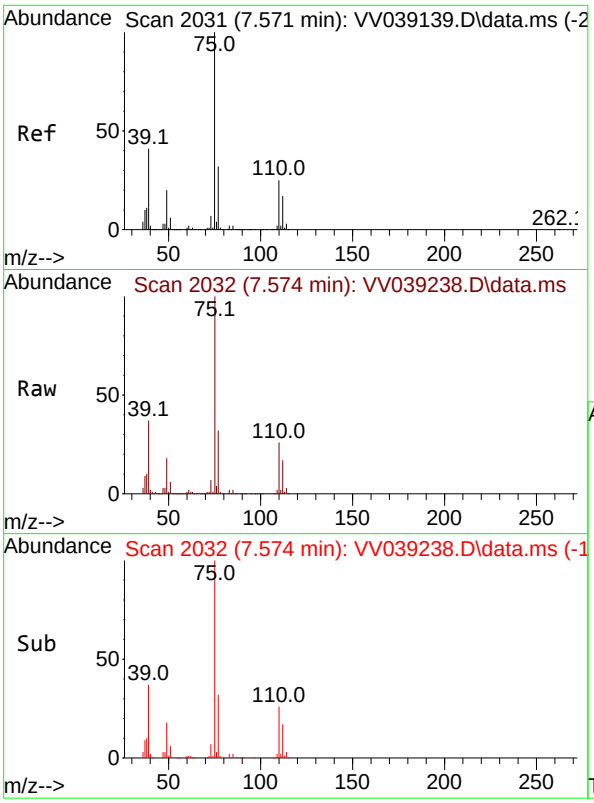




#52
Toluene
Concen: 53.684 ug/l
RT: 7.307 min Scan# 1949
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 92 Resp: 987839

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 171.6 | 139.2 | 208.8 |



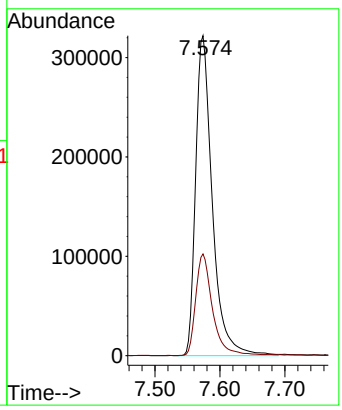


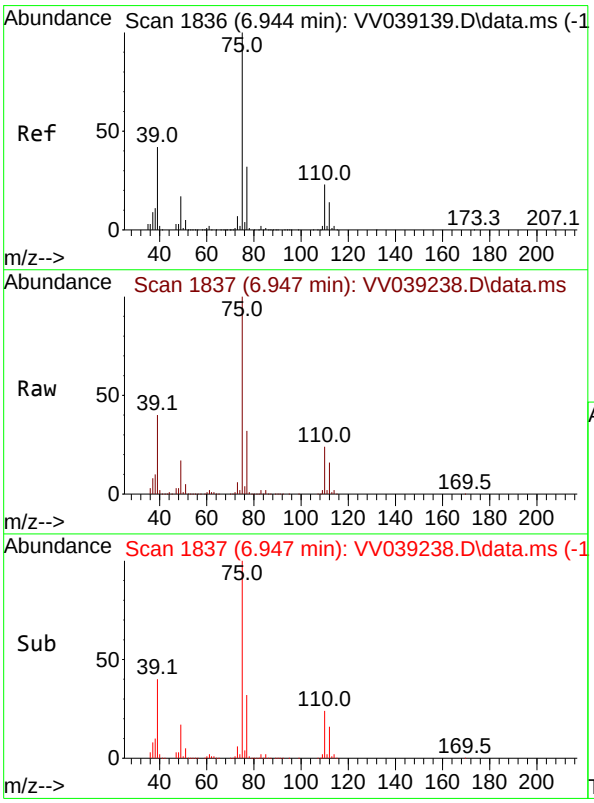

#53
t-1,3-Dichloropropene
Concen: 53.009 ug/l
RT: 7.574 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion: 75 Resp: 576616

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.7 | 25.9 | 38.9 |

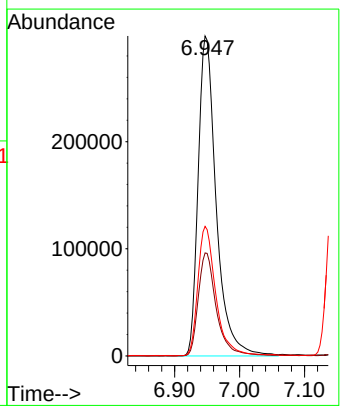


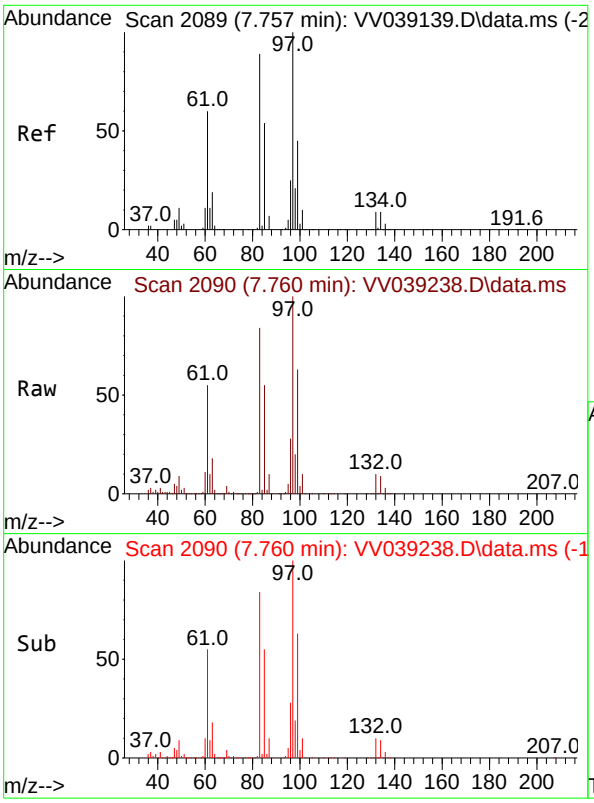




#54
cis-1,3-Dichloropropene
Concen: 48.168 ug/l
RT: 6.947 min Scan# 1837
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 75 Resp: 578415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.1 | 25.5 | 38.3 |
| 39 | 40.4 | 33.8 | 50.6 |



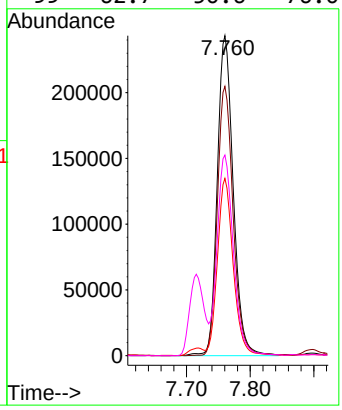


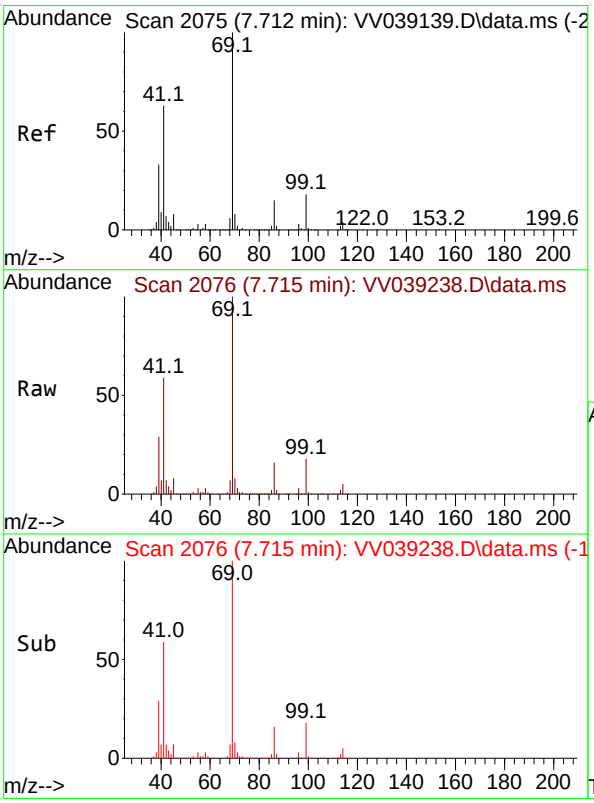

#55
1,1,2-Trichloroethane
Concen: 51.456 ug/l
RT: 7.760 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion: 97 Resp: 424550

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 84.1 | 71.1 | 106.7 |
| 85 | 55.3 | 44.6 | 67.0 |
| 99 | 62.7 | 50.6 | 76.0 |

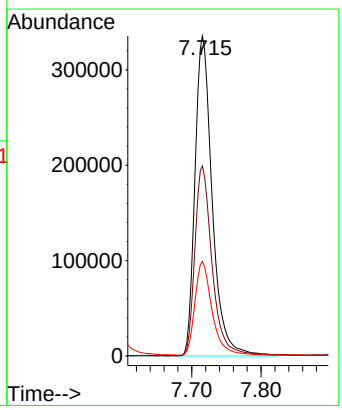


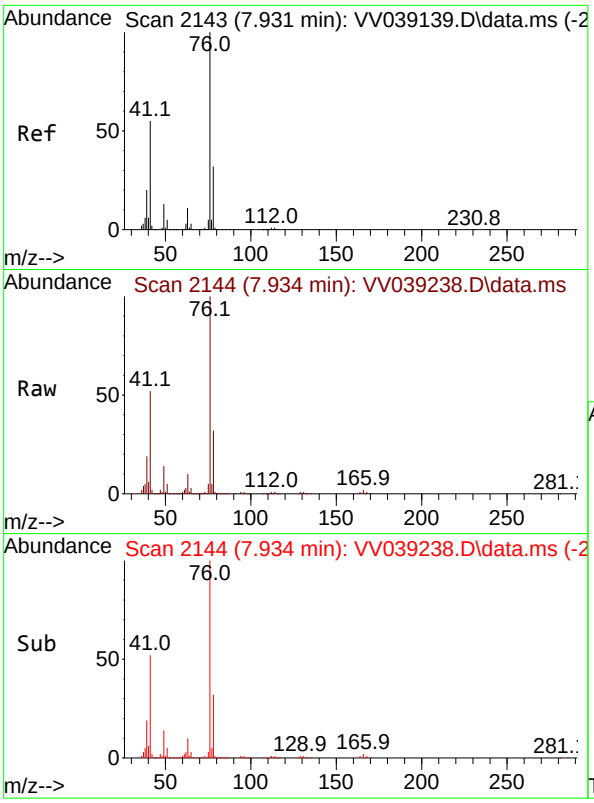




#56
Ethyl methacrylate
Concen: 59.454 ug/l
RT: 7.715 min Scan# 2076
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 69 Resp: 582543

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 58.9 | 50.7 | 76.1 |
| 39 | 29.0 | 26.0 | 39.0 |



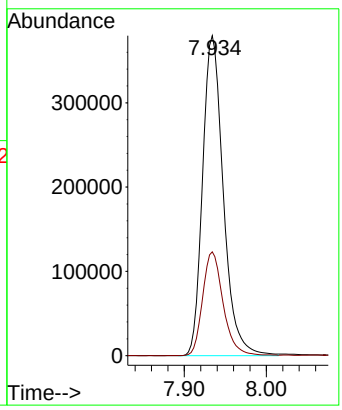


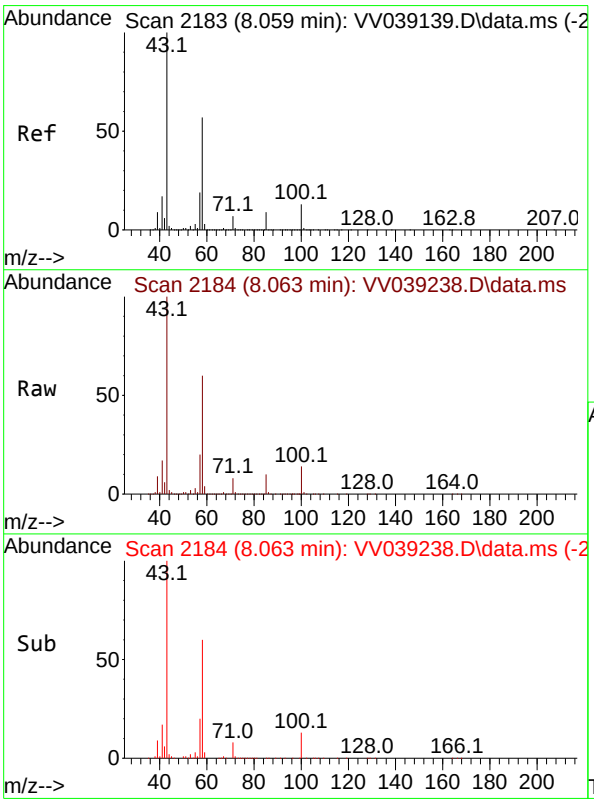

#57
1,3-Dichloropropane
Concen: 51.116 ug/l
RT: 7.934 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion: 76 Resp: 665587

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.1 | 26.1 | 39.1 |

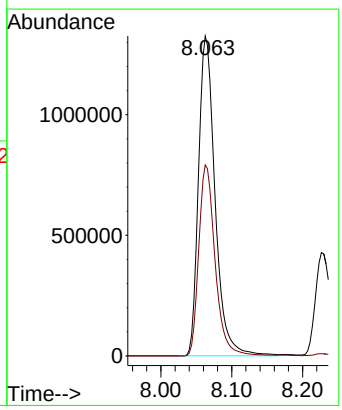


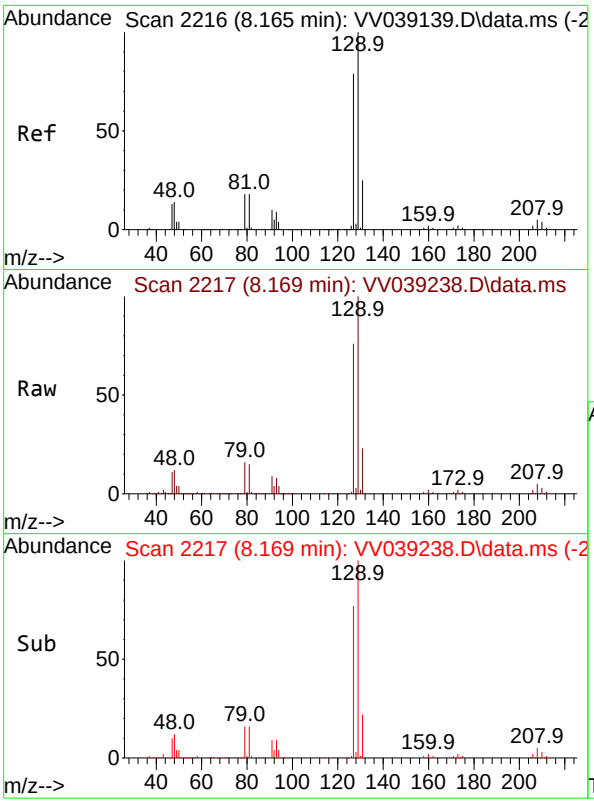




#59
2-Hexanone
Concen: 251.657 ug/l
RT: 8.063 min Scan# 2184
Delta R.T. 0.004 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 43 Resp: 2155011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 59.3 | 28.3 | 85.0 |



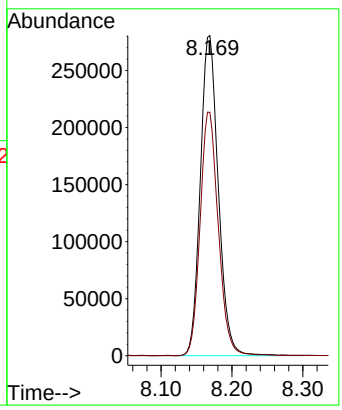


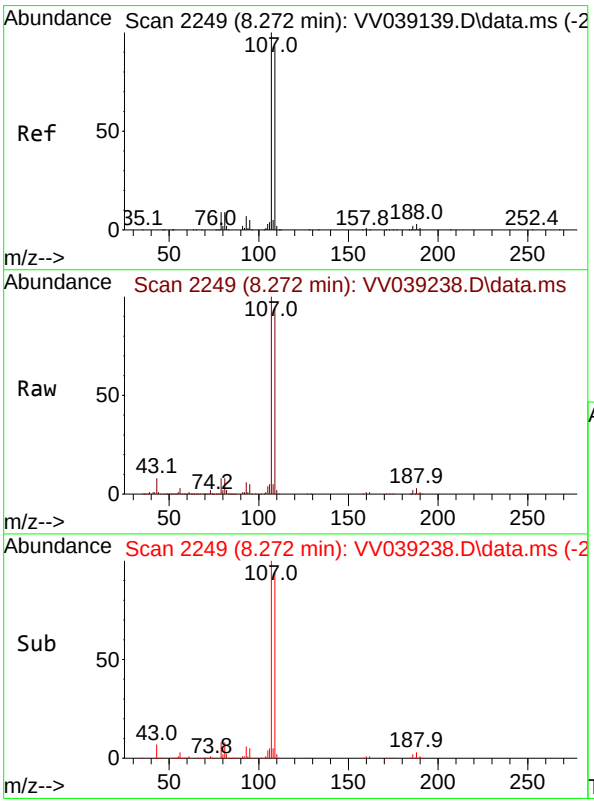

#60
Dibromochloromethane
Concen: 52.620 ug/l
RT: 8.169 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion:129 Resp: 494699

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 76.7 | 39.3 | 117.9 |

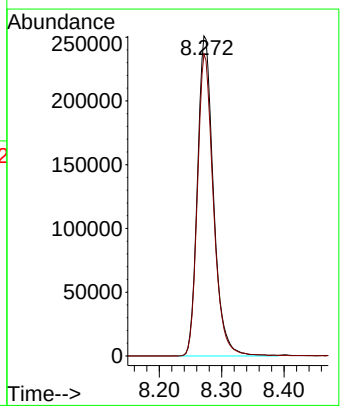


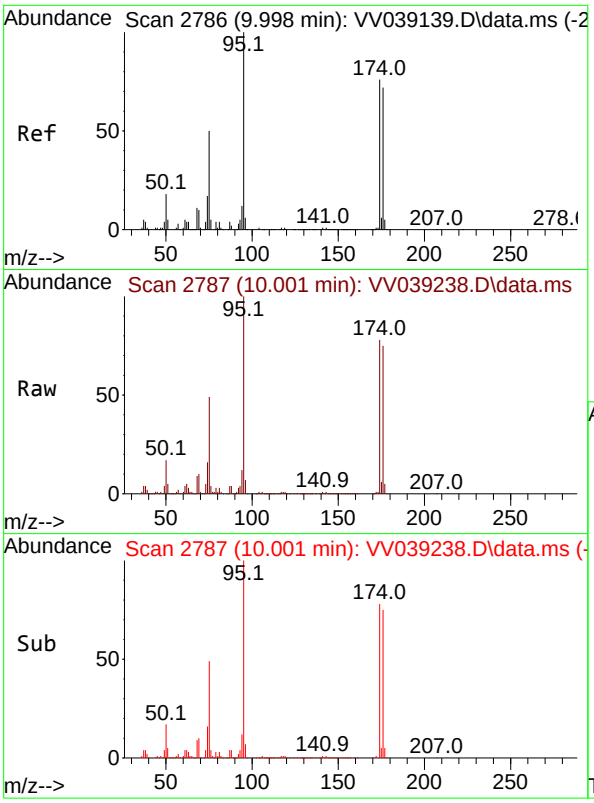




#61
1,2-Dibromoethane
Concen: 53.102 ug/l
RT: 8.272 min Scan# 2249
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion:107 Resp: 448069

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.1 | 74.6 | 112.0 |



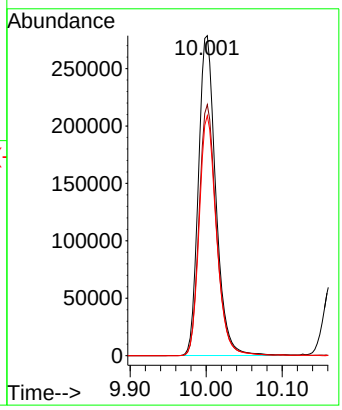


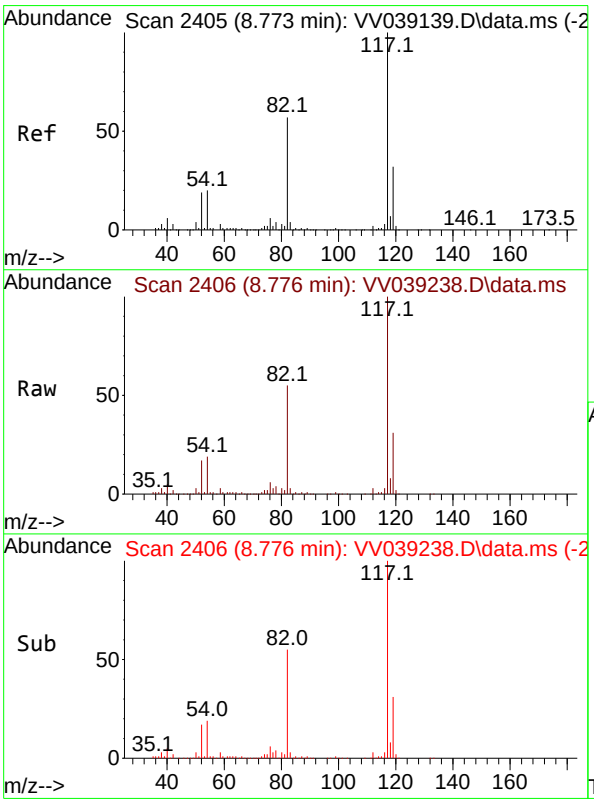

#62
4-Bromofluorobenzene
Concen: 56.800 ug/l
RT: 10.001 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion: 95 Resp: 442703

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 78.4 | 0.0 | 150.4 |
| 176 | 74.7 | 0.0 | 144.2 |

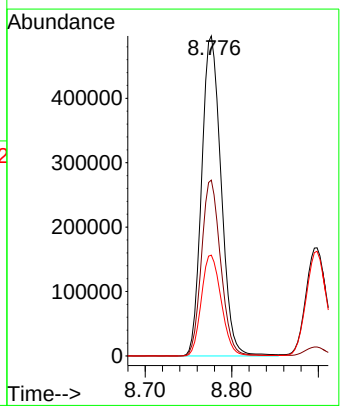


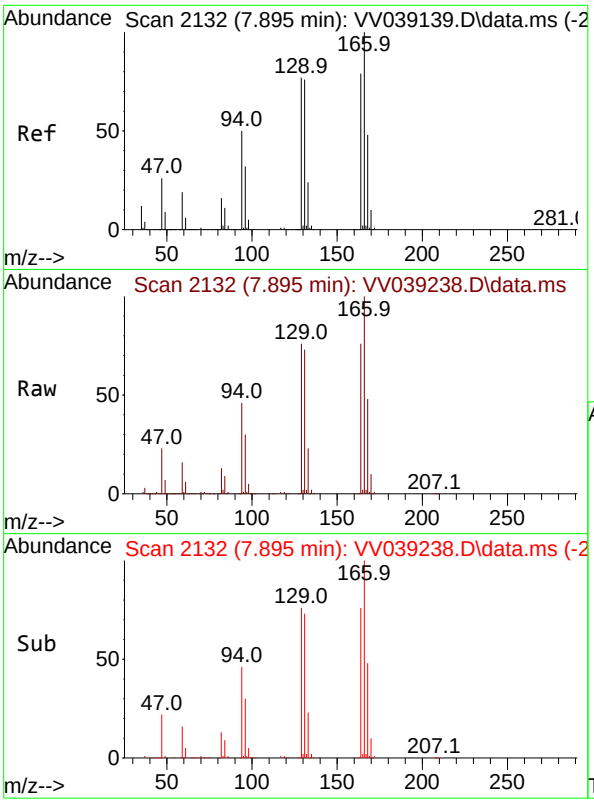




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.776 min Scan# 2406
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion:117 Resp: 776445

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 55.0 | 45.4 | 68.2 |
| 119 | 31.5 | 25.6 | 38.4 |



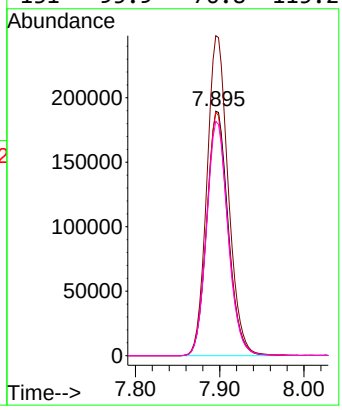


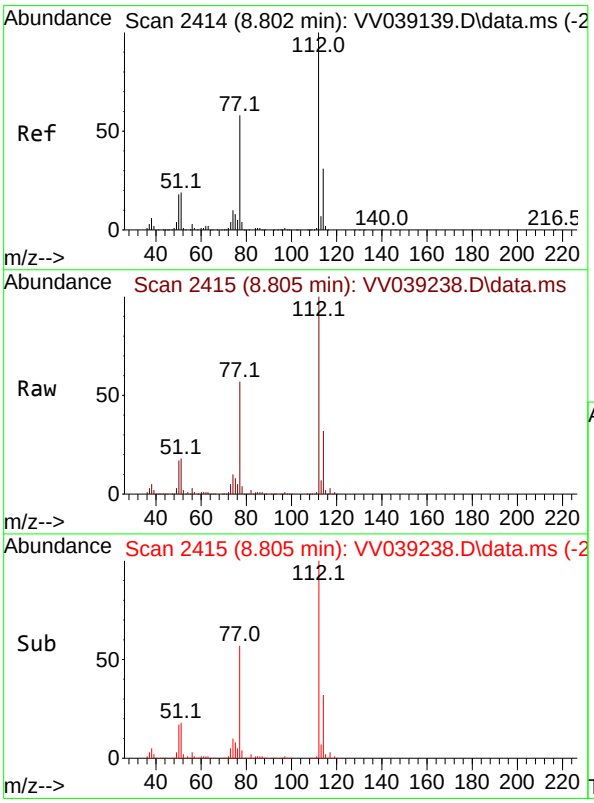

#64
Tetrachloroethene
Concen: 51.720 ug/l
RT: 7.895 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion:164 Resp: 336355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 130.9 | 101.6 | 152.4 |
| 129 | 99.6 | 78.5 | 117.7 |
| 131 | 95.9 | 76.8 | 115.2 |

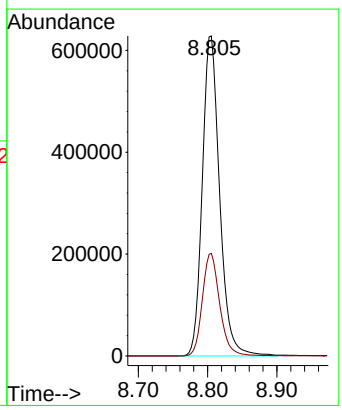


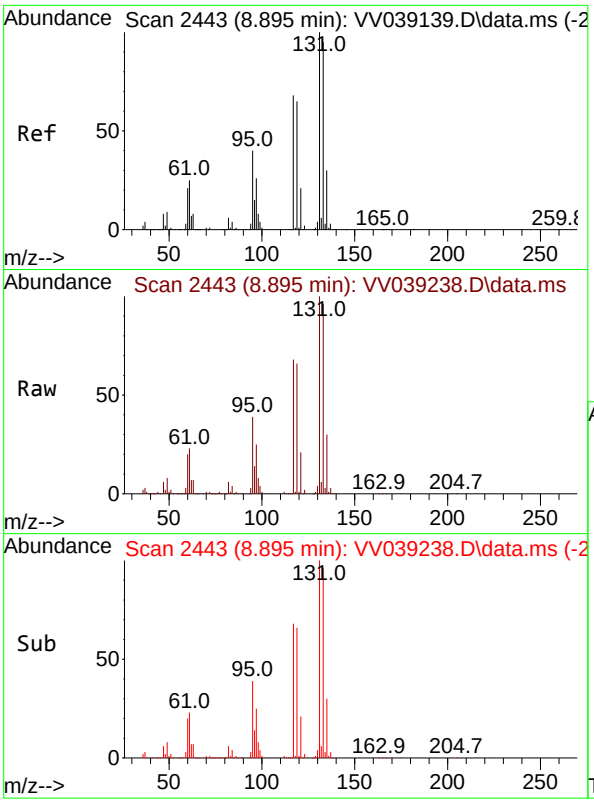




#65
Chlorobenzene
Concen: 50.323 ug/l
RT: 8.805 min Scan# 2415
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion:112 Resp: 1088354

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.0 | 24.6 | 37.0 |



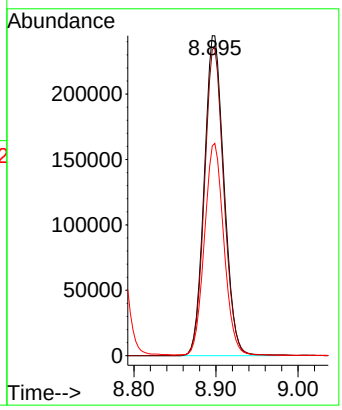


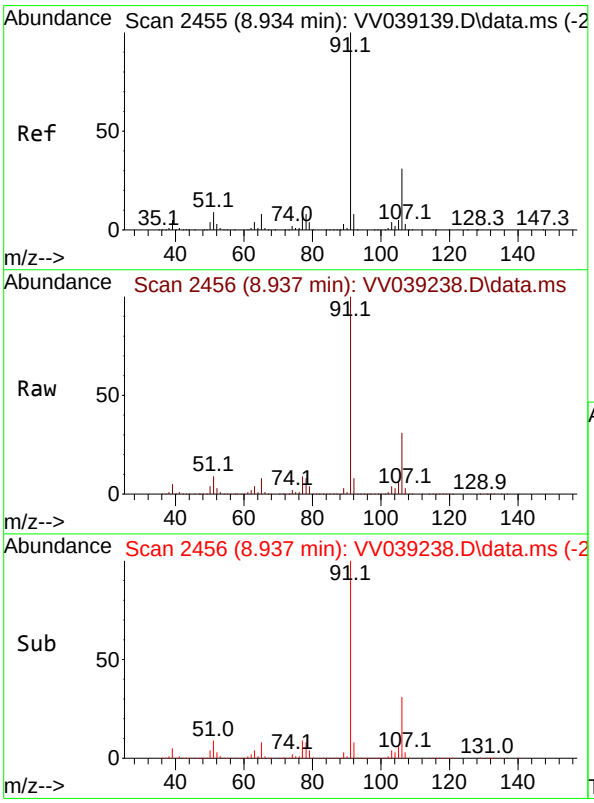

#66
1,1,1,2-Tetrachloroethane
Concen: 52.289 ug/l
RT: 8.895 min Scan# 24
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion:131 Resp: 408617

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.9 | 47.3 | 141.8 |
| 119 | 65.0 | 33.3 | 99.8 |

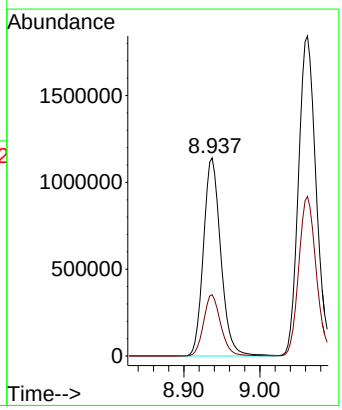


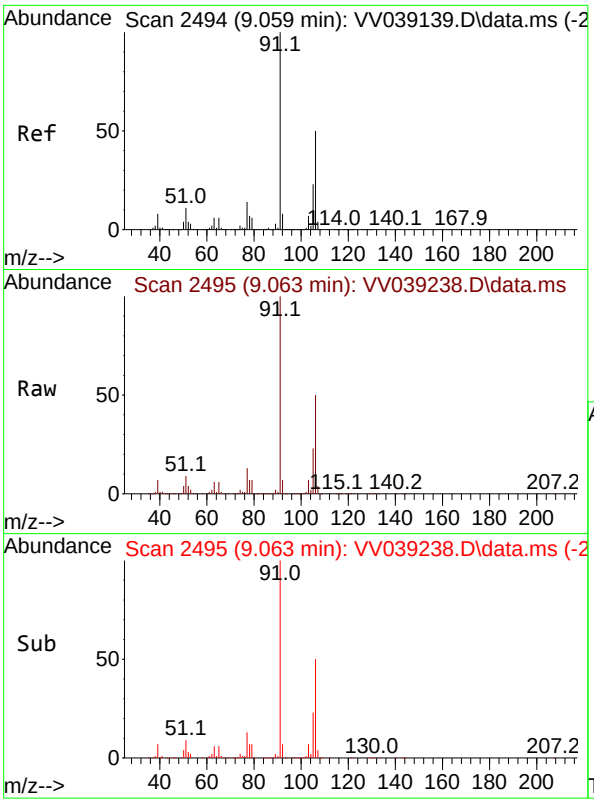




#67
Ethyl Benzene
Concen: 55.133 ug/l
RT: 8.937 min Scan# 2456
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 91 Resp: 1804937

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.0 | 24.6 | 37.0 |



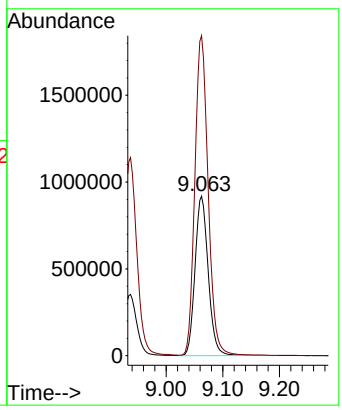


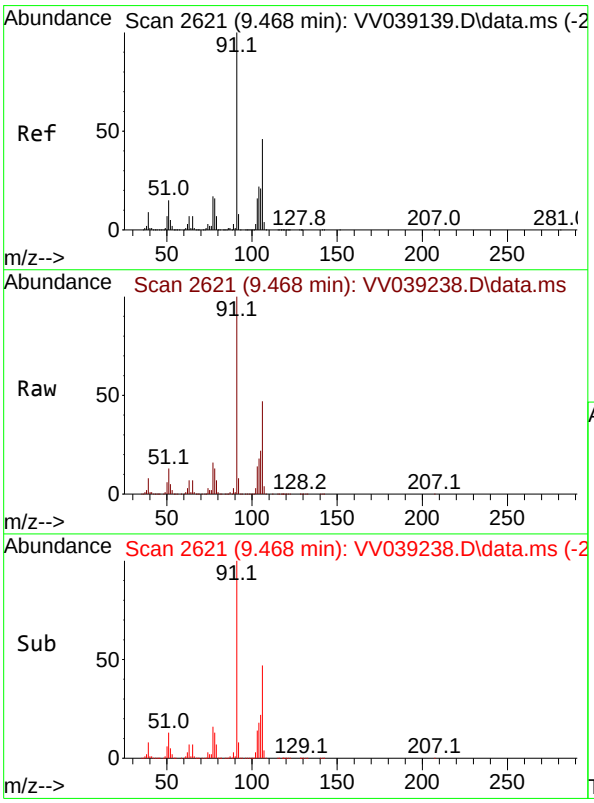

#68
m/p-Xylenes
Concen: 117.156 ug/l
RT: 9.063 min Scan# 24
Delta R.T. 0.004 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion:106 Resp: 1480331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 202.1 | 162.5 | 243.7 |

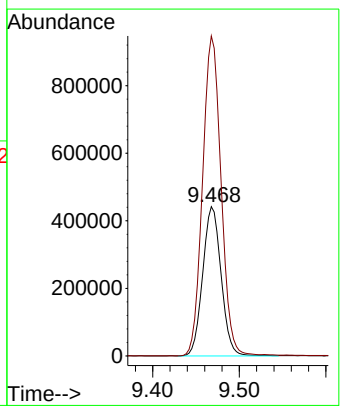


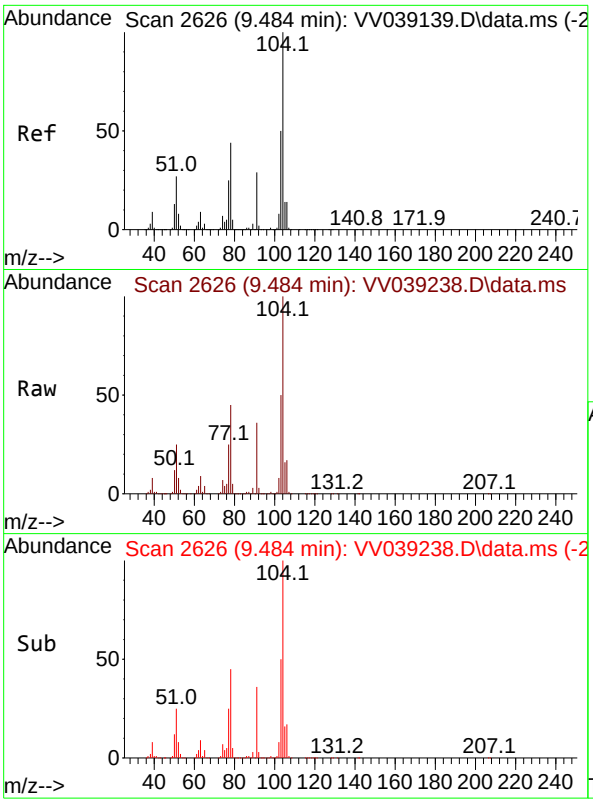




#69
o-Xylene
Concen: 58.228 ug/l
RT: 9.468 min Scan# 2621
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion:106 Resp: 651457

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 215.9 | 109.1 | 327.3 |



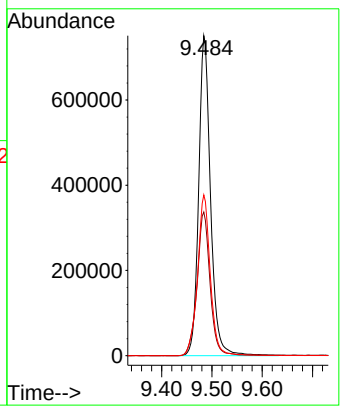


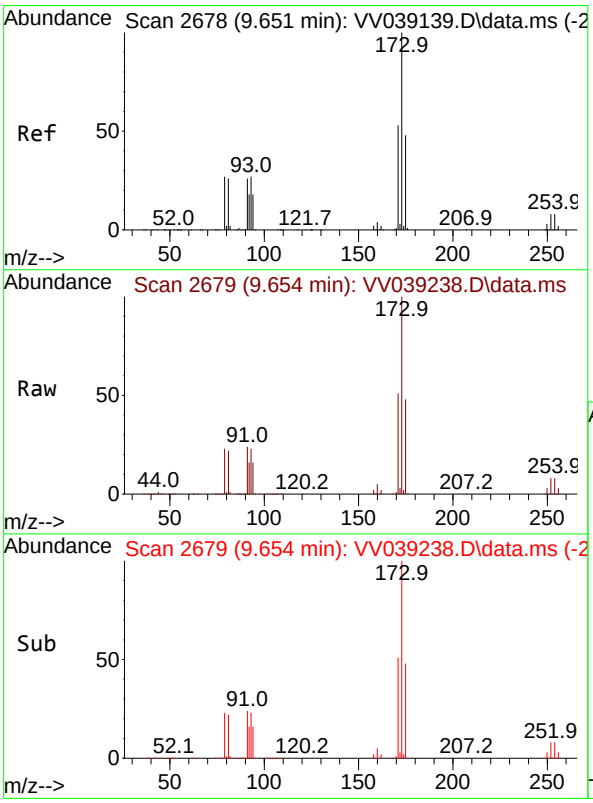

#70
Styrene
Concen: 52.111 ug/l
RT: 9.484 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion:104 Resp: 1236246

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 48.7 | 39.8 | 59.6 |
| 103 | 54.1 | 43.4 | 65.2 |

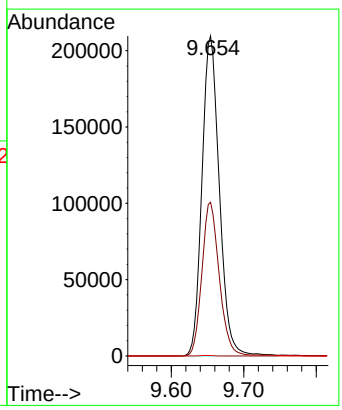


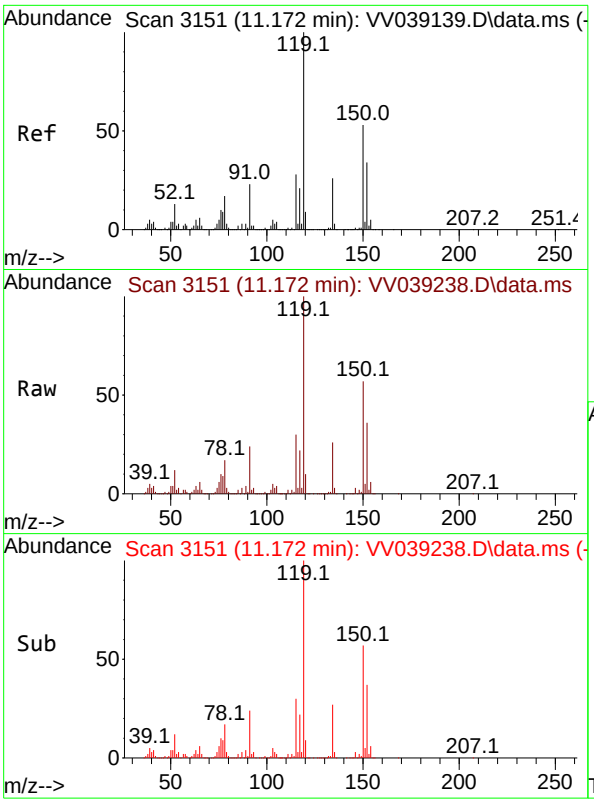




#71
Bromoform
Concen: 57.122 ug/l
RT: 9.654 min Scan# 2679
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion:173 Resp: 348675

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.8 | 23.9 | 71.7 |
| 254 | 0.1 | 0.1 | 0.1 |



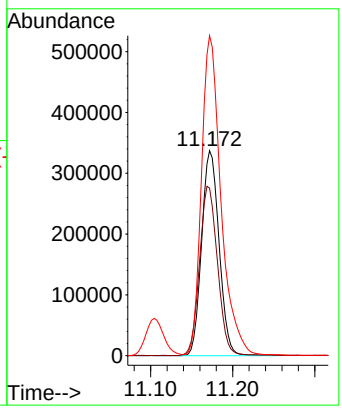


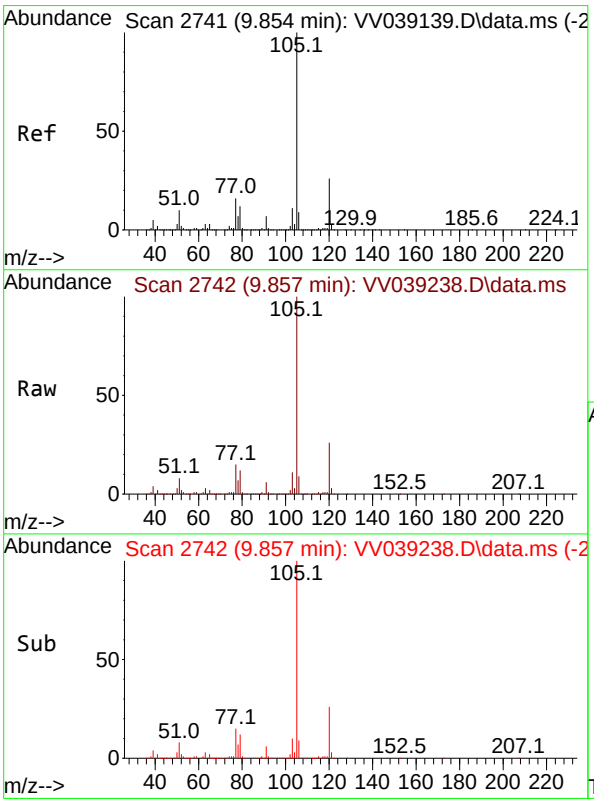

#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion:152 Resp: 497049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 85.1 | 44.8 | 134.4 |
| 150 | 174.8 | 0.0 | 353.8 |

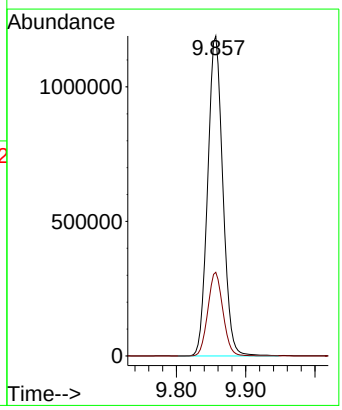


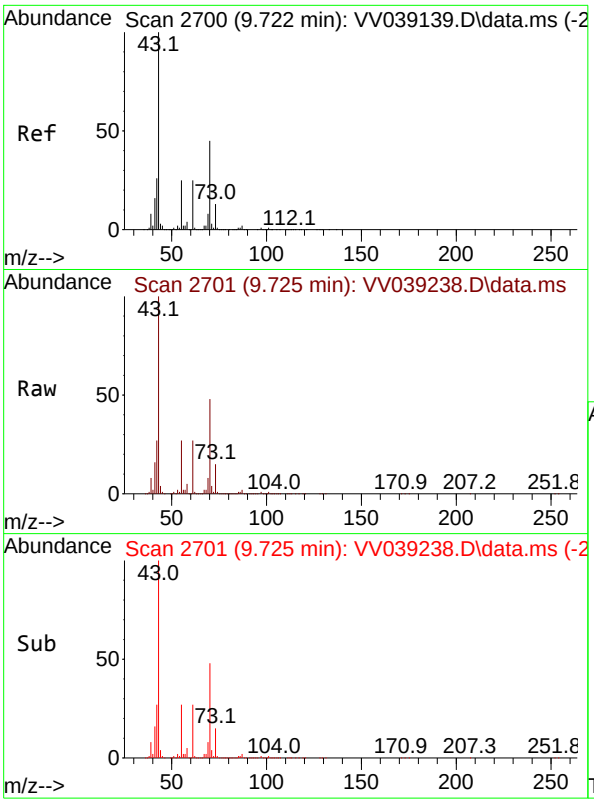




#73
Isopropylbenzene
Concen: 49.780 ug/l
RT: 9.857 min Scan# 2742
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion:105 Resp: 1794634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.1 | 13.1 | 39.1 |



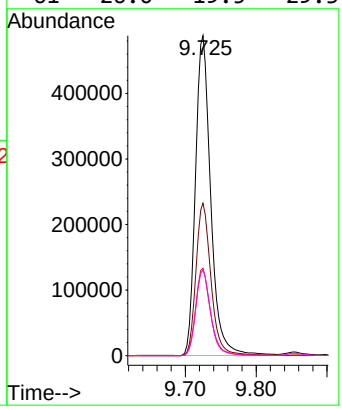


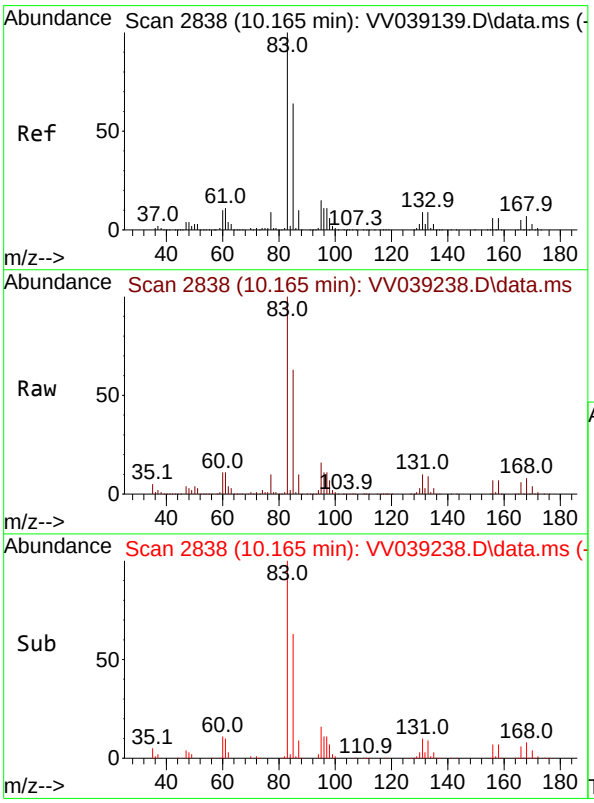

#74
N-amyl acetate
Concen: 50.831 ug/l
RT: 9.725 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion: 43 Resp: 730955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 47.2 | 35.4 | 53.0 |
| 55 | 27.0 | 20.6 | 30.8 |
| 61 | 26.0 | 19.5 | 29.3 |

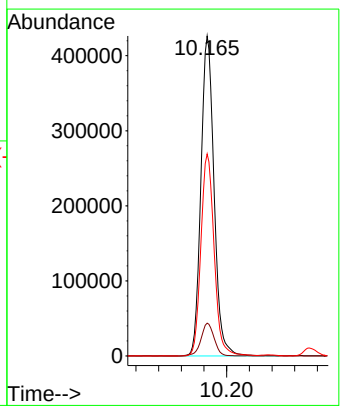


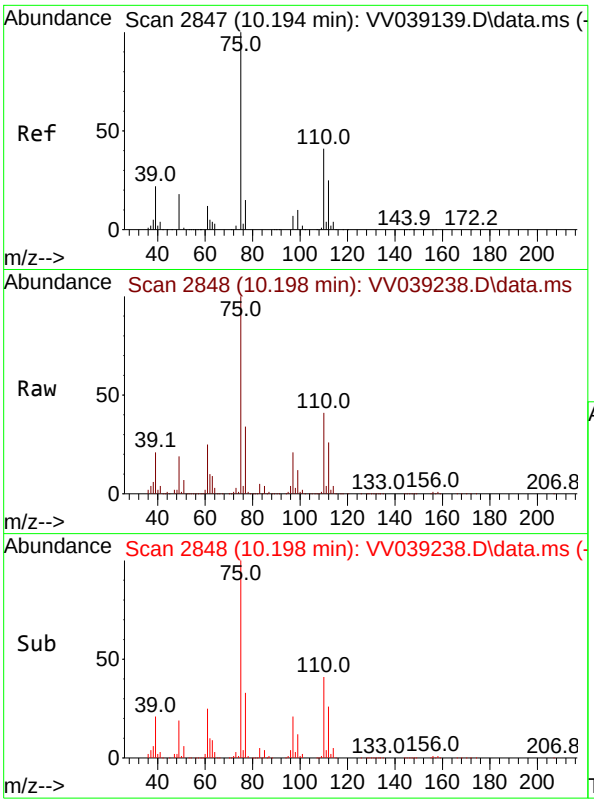




#75
1,1,2,2-Tetrachloroethane
Concen: 43.414 ug/l
RT: 10.165 min Scan# 2838
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 83 Resp: 685760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.3 | 4.5 | 13.7 |
| 85 | 63.8 | 31.9 | 95.9 |



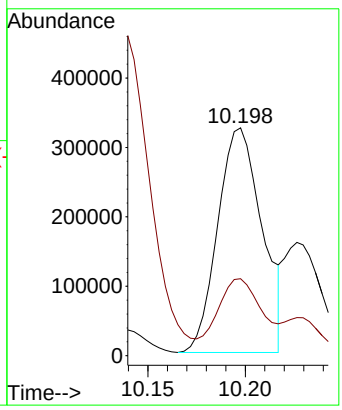


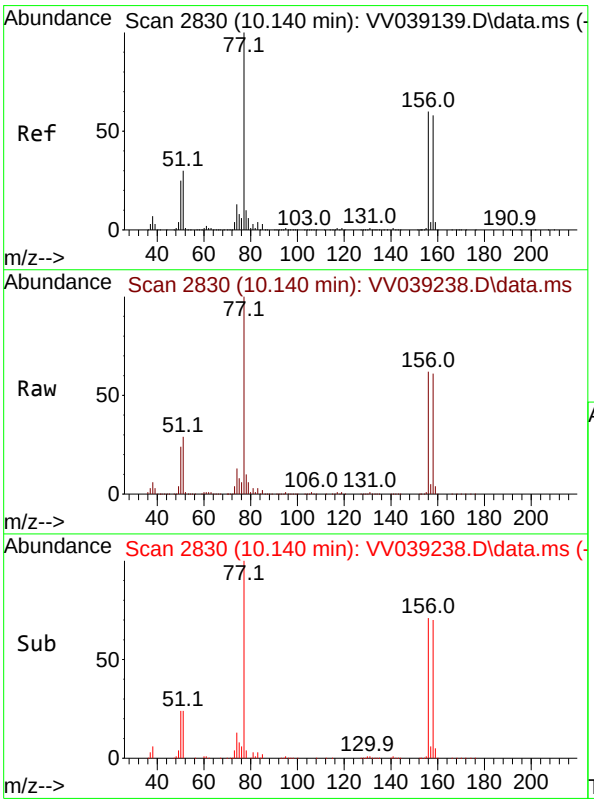

#76
1,2,3-Trichloropropane
Concen: 45.346 ug/l
RT: 10.198 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion: 75 Resp: 513184

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 23.3 | 11.3 | 33.8 |

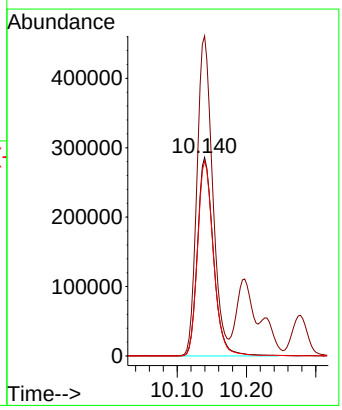


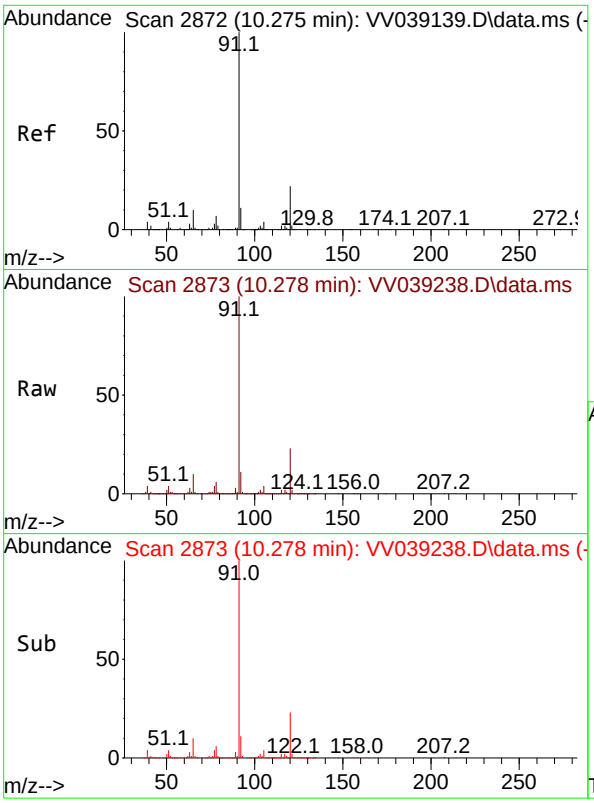




#77
Bromobenzene
Concen: 49.012 ug/l
RT: 10.140 min Scan# 2830
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion:156 Resp: 458429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 157.7 | 83.4 | 250.1 |
| 158 | 97.5 | 48.8 | 146.4 |



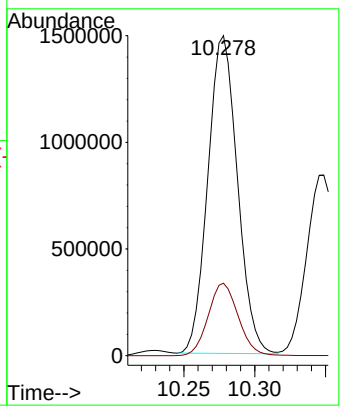


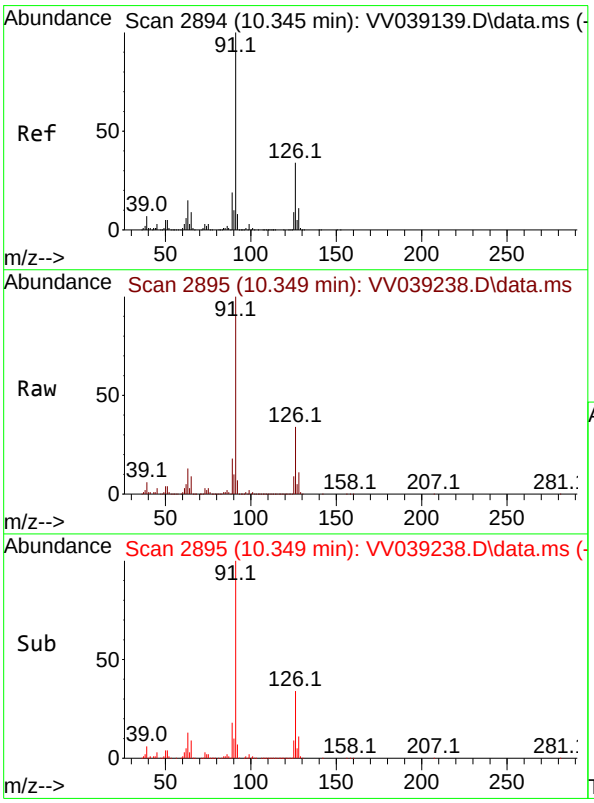

#78
n-propylbenzene
Concen: 49.233 ug/l
RT: 10.278 min Scan# 2
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion: 91 Resp: 2161429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 23.2 | 11.1 | 33.3 |

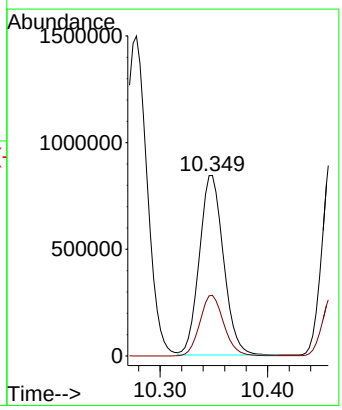


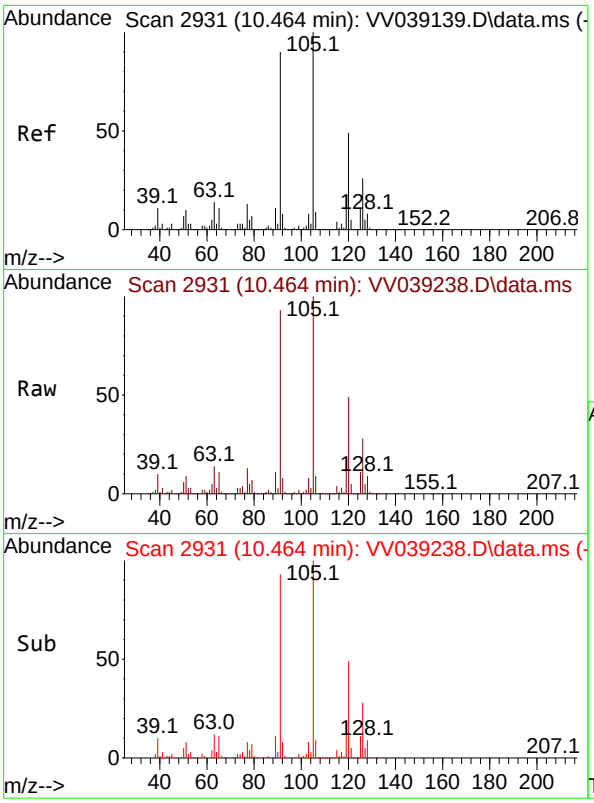




#79
2-Chlorotoluene
Concen: 50.010 ug/l
RT: 10.349 min Scan# 2895
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 91 Resp: 1313750

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.5 | 16.7 | 50.0 |



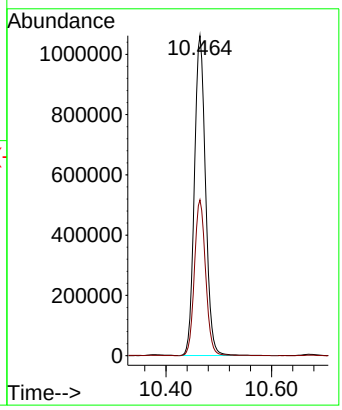


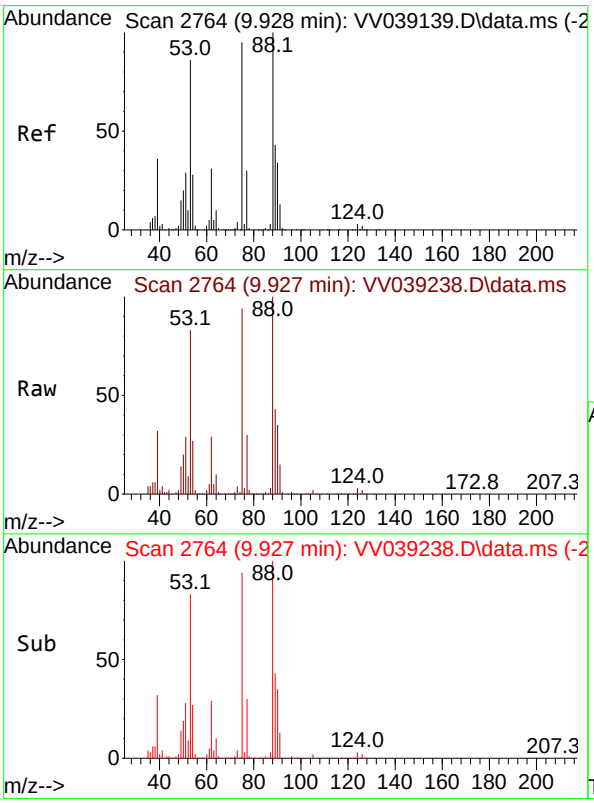

#80
1,3,5-Trimethylbenzene
Concen: 51.751 ug/l
RT: 10.464 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion:105 Resp: 1550730

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.8 | 24.3 | 72.8 |

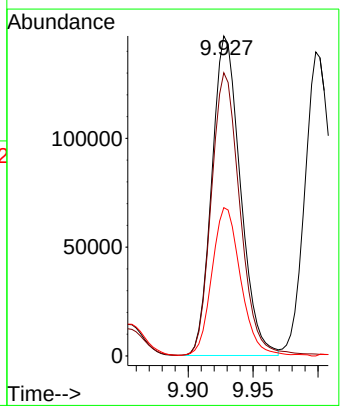


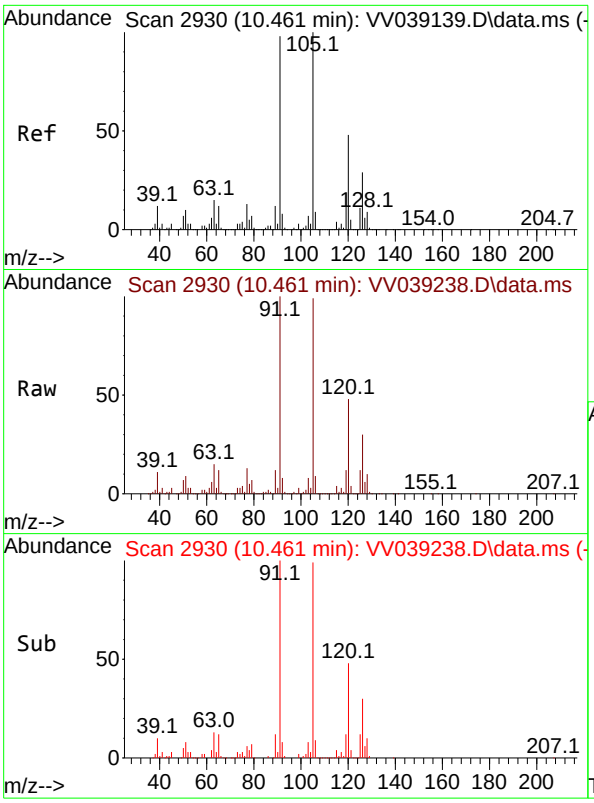




#81
trans-1,4-Dichloro-2-butene
Concen: 47.618 ug/l
RT: 9.927 min Scan# 2764
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 75 Resp: 224474

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 88.3 | 72.5 | 108.7 |
| 89 | 47.1 | 37.2 | 55.8 |



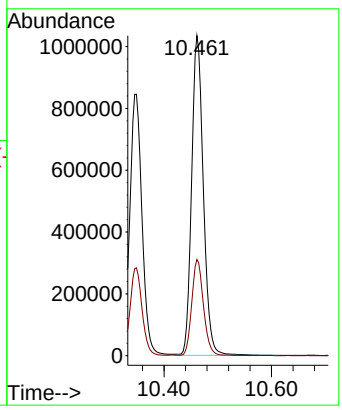


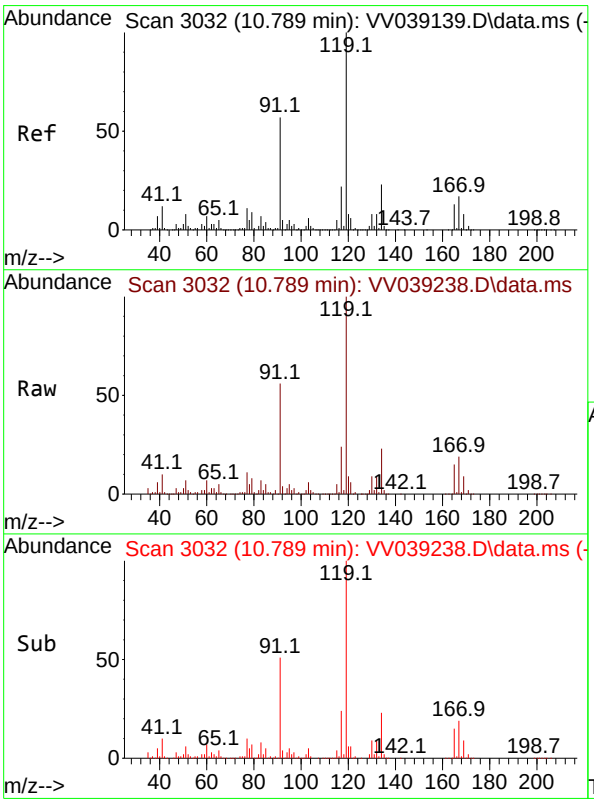

#82
4-Chlorotoluene
Concen: 51.389 ug/l
RT: 10.461 min Scan# 2
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion: 91 Resp: 1565365

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 29.8 | 14.5 | 43.6 |

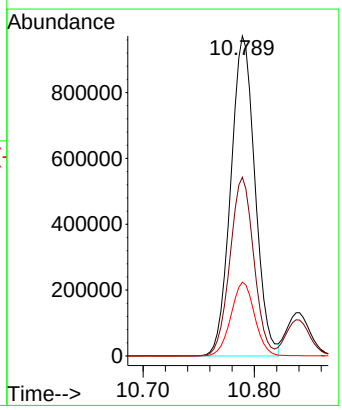


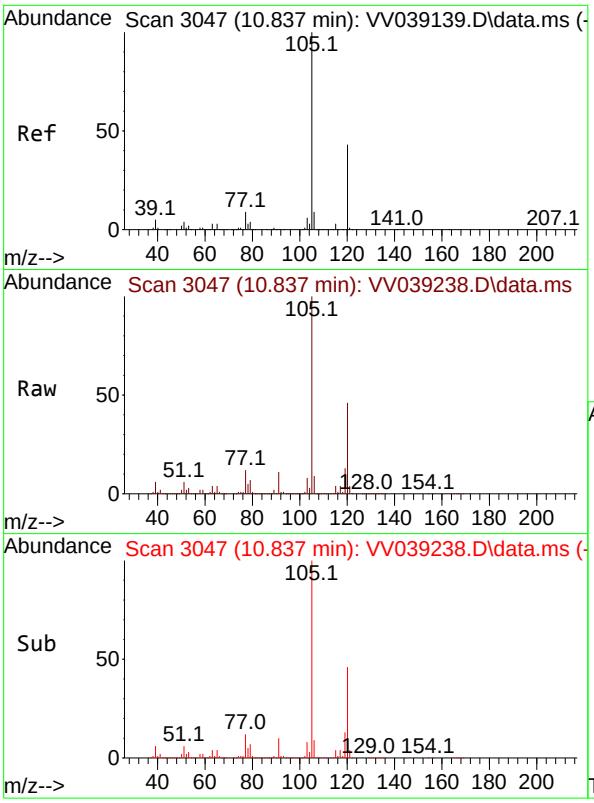




#83
tert-Butylbenzene
Concen: 49.102 ug/l
RT: 10.789 min Scan# 3032
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion:119 Resp: 1467159

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 55.1 | 28.5 | 85.6 |
| 134 | 22.7 | 11.5 | 34.4 |



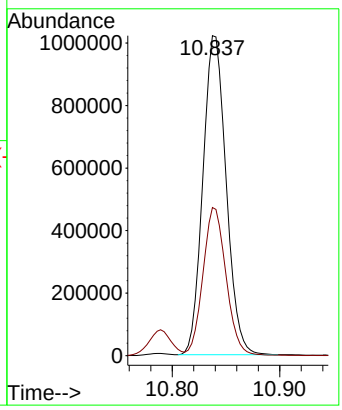


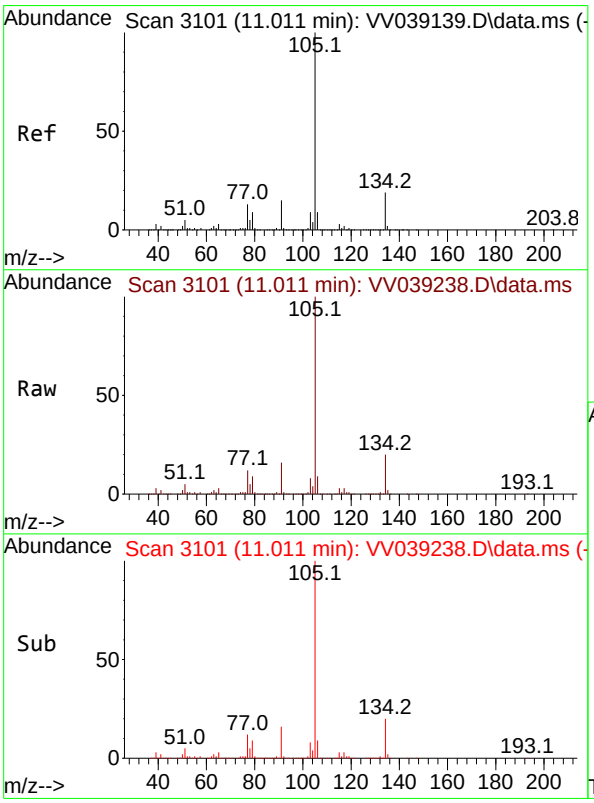

#84
1,2,4-Trimethylbenzene
Concen: 52.732 ug/l
RT: 10.837 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion:105 Resp: 1534040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.1 | 22.4 | 67.2 |

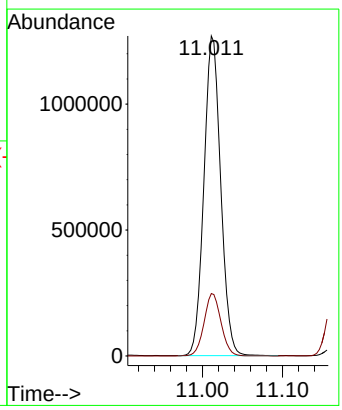


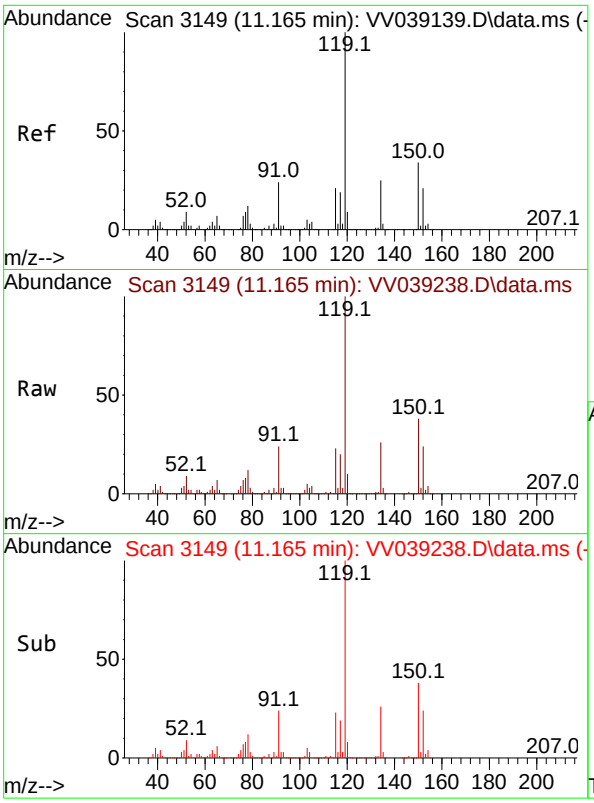




#85
sec-Butylbenzene
Concen: 46.872 ug/l
RT: 11.011 min Scan# 3101
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion:105 Resp: 1857611

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.7 | 9.6 | 28.8 |



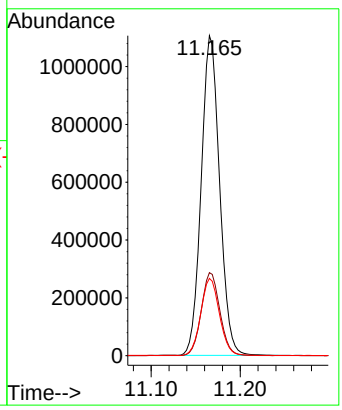


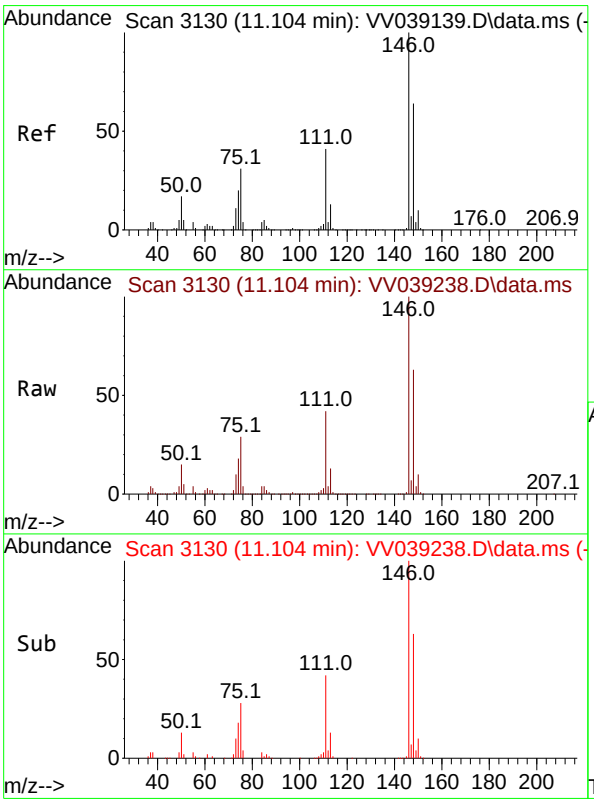

#86
p-Isopropyltoluene
Concen: 47.979 ug/l
RT: 11.165 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion:119 Resp: 1582644

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.1 | 12.7 | 38.0 |
| 91 | 24.5 | 12.0 | 36.1 |

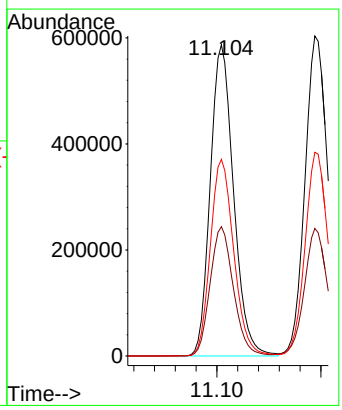


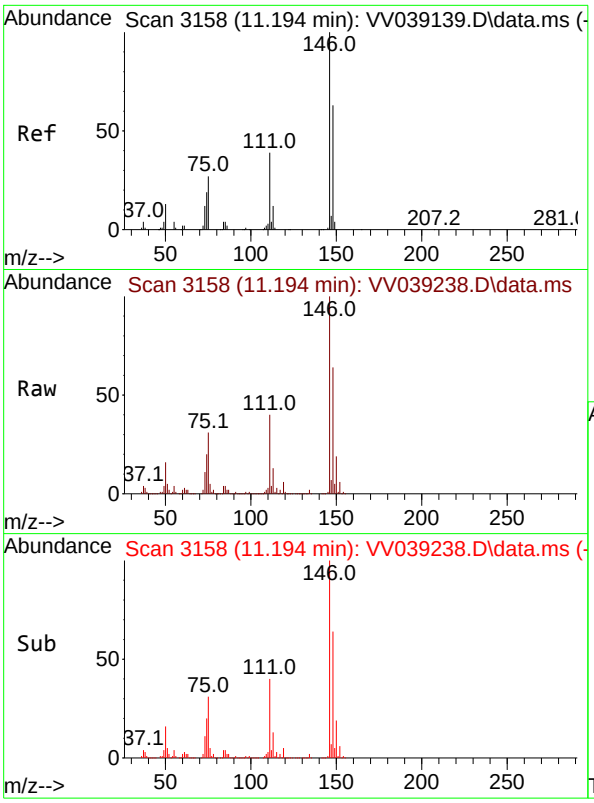




#87
1,3-Dichlorobenzene
Concen: 48.268 ug/l
RT: 11.104 min Scan# 3130
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion:146 Resp: 913700

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.3 | 20.9 | 62.8 |
| 148 | 63.6 | 31.8 | 95.3 |



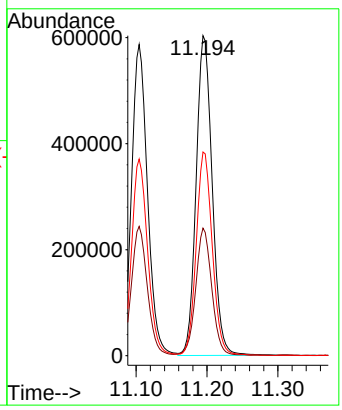


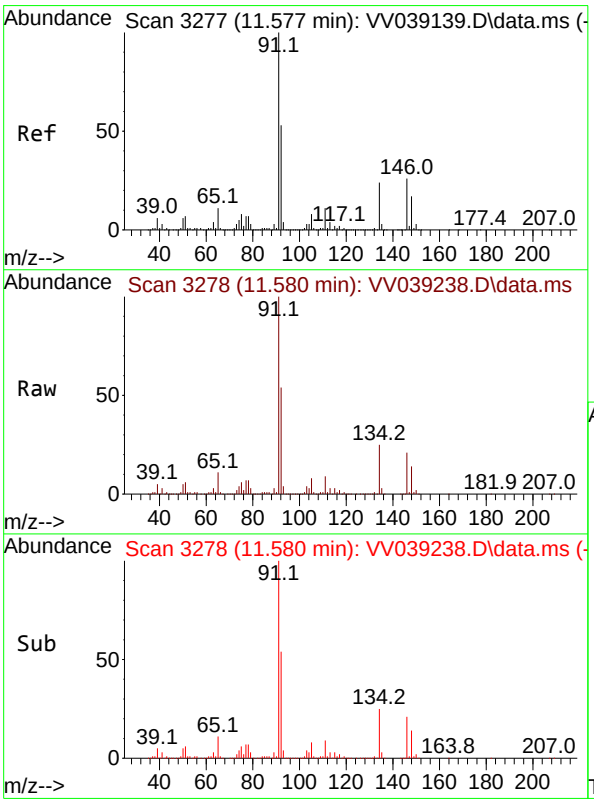

#88
1,4-Dichlorobenzene
Concen: 45.793 ug/l
RT: 11.194 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion:146 Resp: 951037

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.5 | 20.3 | 60.8 |
| 148 | 63.7 | 31.4 | 94.2 |

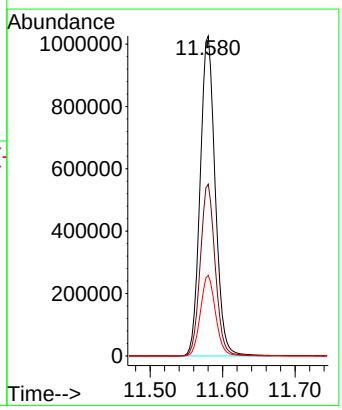


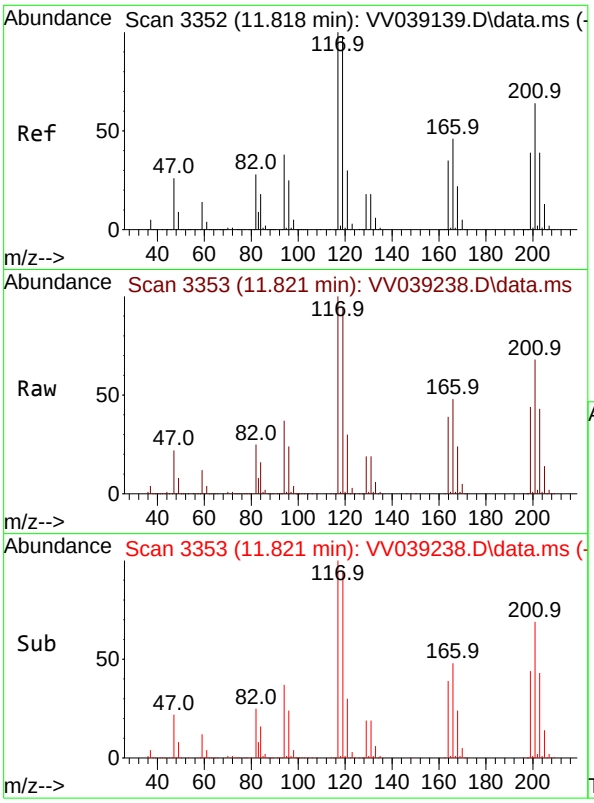




#89
n-Butylbenzene
Concen: 47.022 ug/l
RT: 11.580 min Scan# 3278
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion: 91 Resp: 1481352

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.3 | 26.6 | 79.8 |
| 134 | 25.3 | 12.1 | 36.3 |



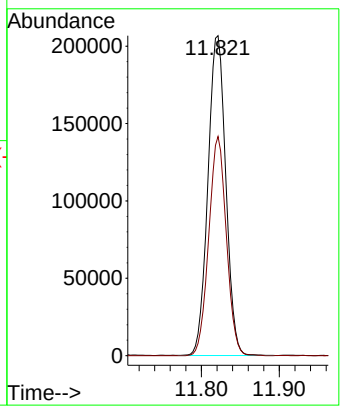


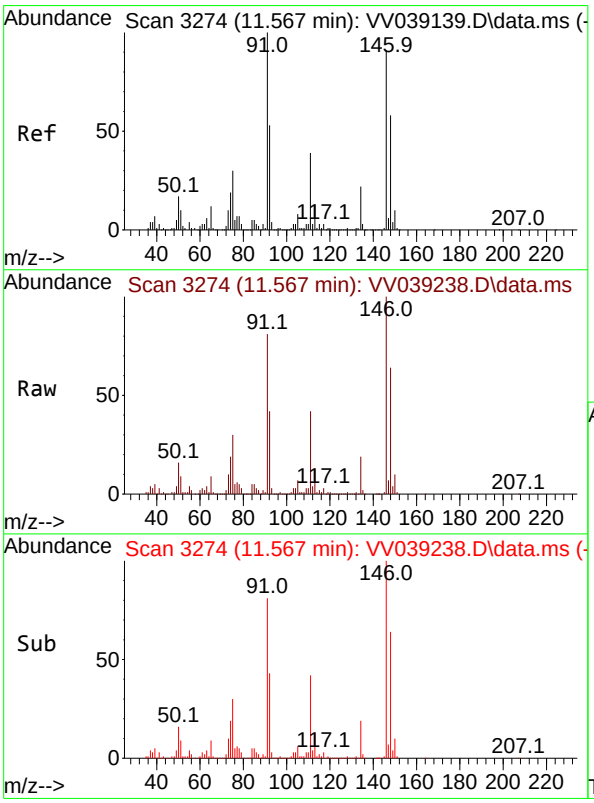

#90
Hexachloroethane
Concen: 40.507 ug/l
RT: 11.821 min Scan# 3
Delta R.T. 0.003 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion:117 Resp: 329035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 67.4 | 32.3 | 96.8 |

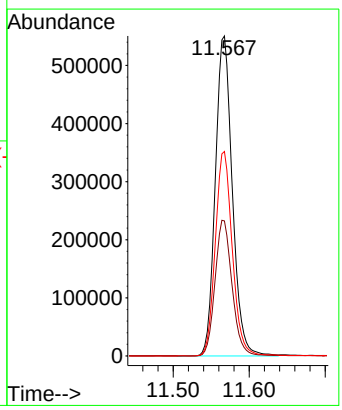


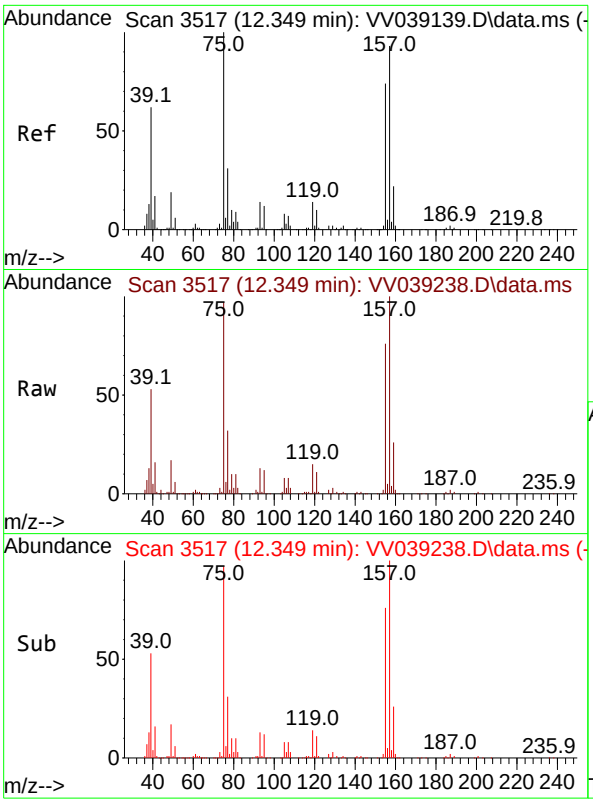




#91
1,2-Dichlorobenzene
Concen: 48.321 ug/l
RT: 11.567 min Scan# 3274
Delta R.T. 0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion:146 Resp: 854599

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.6 | 21.5 | 64.5 |
| 148 | 64.2 | 31.9 | 95.7 |



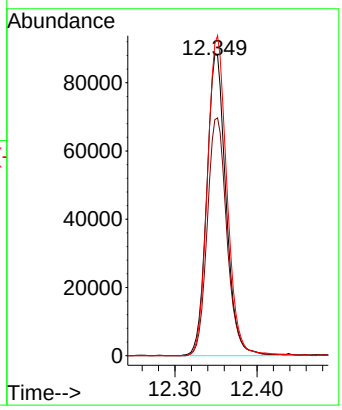


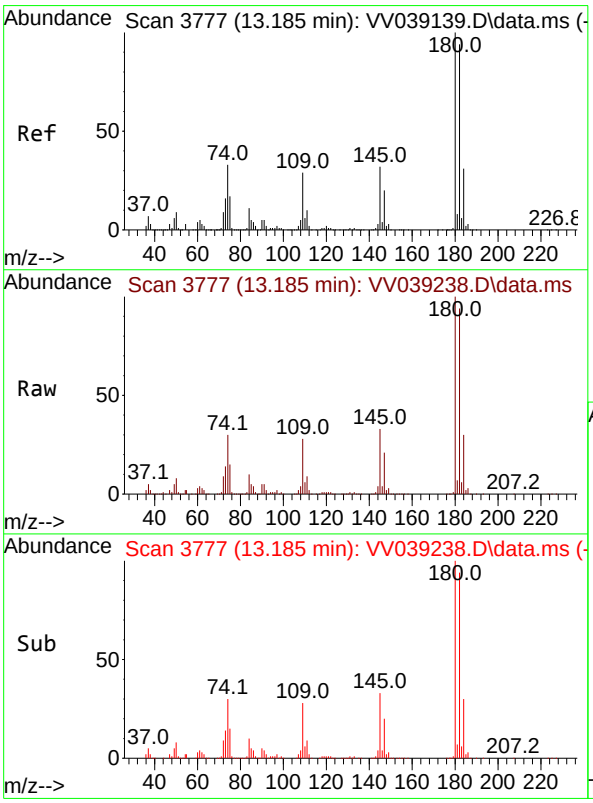

#92
1,2-Dibromo-3-Chloropropane
Concen: 50.939 ug/l
RT: 12.349 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion: 75 Resp: 144885

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 80.1 | 38.6 | 115.8 |
| 157 | 107.2 | 49.5 | 148.3 |

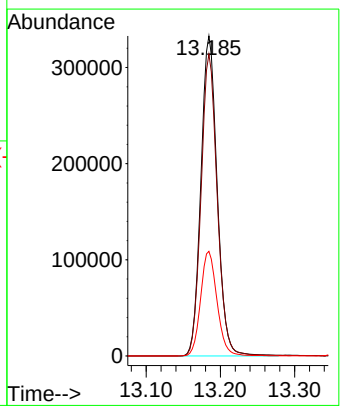


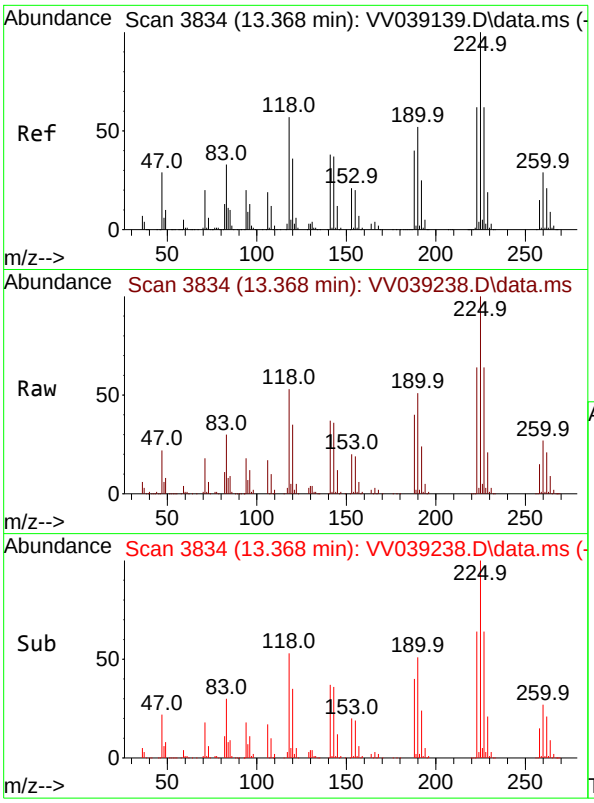




#93
1,2,4-Trichlorobenzene
Concen: 50.049 ug/l
RT: 13.185 min Scan# 3777
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion:180 Resp: 507400

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.0 | 47.1 | 141.4 |
| 145 | 33.0 | 16.3 | 48.8 |



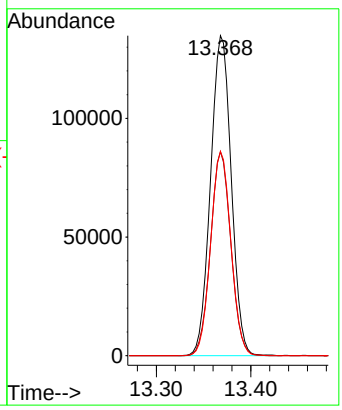


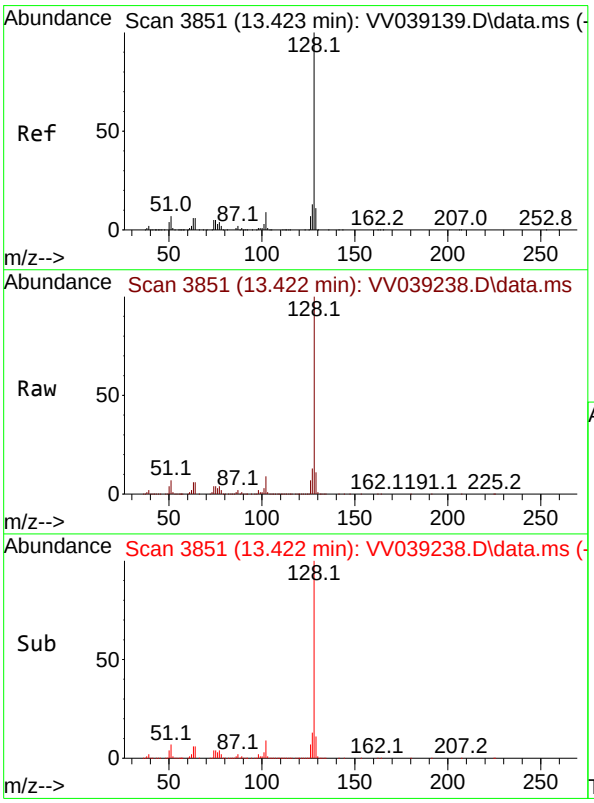

#94
Hexachlorobutadiene
Concen: 38.945 ug/l
RT: 13.368 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion:225 Resp: 205155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.4 | 31.6 | 94.7 |
| 227 | 62.4 | 31.8 | 95.4 |

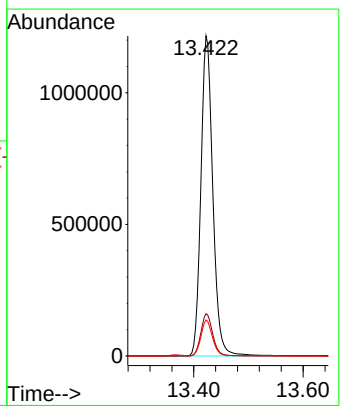


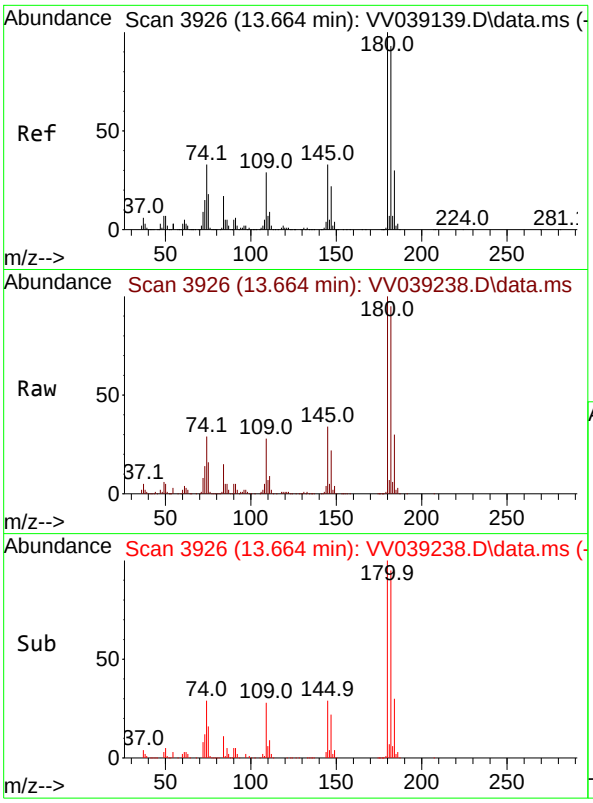




#95
Naphthalene
Concen: 56.086 ug/l
RT: 13.422 min Scan# 3851
Delta R.T. -0.001 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

Tgt Ion:128 Resp: 1837825

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.1 | 10.3 | 15.5 |
| 129 | 10.8 | 8.6 | 13.0 |



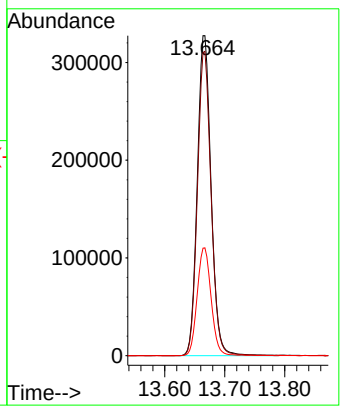



#96
1,2,3-Trichlorobenzene
Concen: 50.663 ug/l
RT: 13.664 min Scan# 3
Delta R.T. -0.000 min
Lab File: VV039238.D
Acq: 29 Sep 2025 17:38

**Instrument :**
MSVOA_V
**ClientSampleId :**
MW-33D-091725MSD

Tgt Ion:180 Resp: 525316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.9 | 46.9 | 140.8 |
| 145 | 34.0 | 17.0 | 51.0 |



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

# Manual Integration Report

| Sequence: | VV092225 | Instrument | MSVOA_v |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICC005 | VV039142.D | 1,2,3-Trichloropropane | MMDadoda | 9/26/2025 1:38:50 AM | SAM | 9/26/2025 1:57:11 AM | Peak Integrated by Software |
| VSTDICC001 | VV039143.D | 1,1-Dichloropropene | MMDadoda | 9/26/2025 1:38:52 AM | SAM | 9/26/2025 1:57:13 AM | Peak Integrated by Software |
| VSTDICC001 | VV039143.D | 1,4-Dichlorobenzene | MMDadoda | 9/26/2025 1:38:52 AM | SAM | 9/26/2025 1:57:13 AM | Peak Integrated by Software |
| VSTDICC001 | VV039143.D | 1,4-Dioxane | MMDadoda | 9/26/2025 1:38:52 AM | SAM | 9/26/2025 1:57:13 AM | Peak Integrated by Software |
| VSTDICC001 | VV039143.D | 2,2-Dichloropropane | MMDadoda | 9/26/2025 1:38:52 AM | SAM | 9/26/2025 1:57:13 AM | Peak Integrated by Software |
| VSTDICC001 | VV039143.D | 2-Butanone | MMDadoda | 9/26/2025 1:38:52 AM | SAM | 9/26/2025 1:57:13 AM | Peak Integrated by Software |
| VSTDICC001 | VV039143.D | Carbon Tetrachloride | MMDadoda | 9/26/2025 1:38:52 AM | SAM | 9/26/2025 1:57:13 AM | Peak Integrated by Software |
| VSTDICC001 | VV039143.D | Ethyl Acetate | MMDadoda | 9/26/2025 1:38:52 AM | SAM | 9/26/2025 1:57:13 AM | Peak Integrated by Software |
| VSTDICC001 | VV039143.D | Ethyl methacrylate | MMDadoda | 9/26/2025 1:38:52 AM | SAM | 9/26/2025 1:57:13 AM | Peak Integrated by Software |
| VSTDICC001 | VV039143.D | Isopropyl Acetate | MMDadoda | 9/26/2025 1:38:52 AM | SAM | 9/26/2025 1:57:13 AM | Peak Integrated by Software |
| VSTDICC001 | VV039143.D | Methacrylonitrile | MMDadoda | 9/26/2025 1:38:52 AM | SAM | 9/26/2025 1:57:13 AM | Peak Integrated by Software |
| VSTDICC001 | VV039143.D | Methyl methacrylate | MMDadoda | 9/26/2025 1:38:52 AM | SAM | 9/26/2025 1:57:13 AM | Peak Integrated by Software |
| VSTDICC001 | VV039143.D | Naphthalene | MMDadoda | 9/26/2025 1:38:52 AM | SAM | 9/26/2025 1:57:13 AM | Peak Integrated by Software |

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

# Manual Integration Report

| Sequence: | VV092225 | Instrument | MSVOA_v |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICV050 | VV039144.D | 1,2,3-Trichloropropane | MMDadoda | 9/26/2025 1:38:55 AM | SAM | 9/26/2025 1:57:15 AM | Peak Integrated by Software |

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

# Manual Integration Report

| Sequence: | VV092525 | Instrument | MSVOA_v |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|

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

# Manual Integration Report

| Sequence: | VV092625 | Instrument | MSVOA_v |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| Q3195-06 | VV039209.D | cis-1,2-Dichloroethene | MMDadoda | 9/29/2025 7:36:31 AM | SAM | 9/29/2025 7:38:38 AM | Peak Integrated by Software |
| Q3195-15 | VV039214.D | 1,4-Dioxane | mmdadoda | 10/28/2025 2:07:24 AM | mohammad | 10/28/2025 2:20:10 AM | Peak Integrated by Software |

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

# Manual Integration Report

| Sequence: | VV092925 | Instrument | MSVOA_v |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| Q3195-18 | VV039227.D | Trichloroethene | MMDadoda | 10/3/2025 2:25:02 AM | SAM | 10/3/2025 2:34:47 AM | Peak Integrated by Software |

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

**Instrument ID: MSVOA_V**

## Daily Analysis Runlog For Sequence/QCBatch ID # VV092225

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 9/26/2025 1:39:32 AM | | | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 9/26/2025 1:56:56 AM | | | | |
| SubDirectory | VV092225 | HP Acquire Method | MSVOA_V | HP Processing Method | 82v092225w.m | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP135580 |
| Initial Calibration Stds | VP135581,VP135582,VP135583,VP135584,VP135585,VP135586 |
| CCC | |
| Internal Standard/PEM | VP133935 |
| ICV/I.BLK | VP135587 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VV039134.D | 22 Sep 2025 10:15 | SY/MD | Ok |
| 2 | VSTDICC001 | VV039135.D | 22 Sep 2025 10:59 | SY/MD | Not Ok |
| 3 | VSTDICC005 | VV039136.D | 22 Sep 2025 11:30 | SY/MD | Not Ok |
| 4 | VSTDICC010 | VV039137.D | 22 Sep 2025 12:26 | SY/MD | Ok |
| 5 | VSTDICC020 | VV039138.D | 22 Sep 2025 12:48 | SY/MD | Ok |
| 6 | VSTDICCC050 | VV039139.D | 22 Sep 2025 13:26 | SY/MD | Ok |
| 7 | VSTDICC100 | VV039140.D | 22 Sep 2025 13:49 | SY/MD | Ok |
| 8 | VIBLK | VV039141.D | 22 Sep 2025 14:21 | SY/MD | Ok |
| 9 | VSTDICC005 | VV039142.D | 22 Sep 2025 15:37 | SY/MD | Ok,M |
| 10 | VSTDICC001 | VV039143.D | 22 Sep 2025 16:35 | SY/MD | Ok,M |
| 11 | VSTDICV050 | VV039144.D | 22 Sep 2025 16:58 | SY/MD | Ok,M |

M : Manual Integration

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

**Instrument ID: MSVOA_V**

## Daily Analysis Runlog For Sequence/QCBatch ID # VV092525

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 9/29/2025 12:56:22 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 9/29/2025 1:08:36 AM | | |
| SubDirectory | VV092525 | HP Acquire Method | 8260_V | HP Processing Method | 82v092225w.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP135649 |
| Initial Calibration Stds | |
| CCC | VP135650,VP135651 |
| Internal Standard/PEM | VP133935 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VV039167.D | 25 Sep 2025 09:14 | SY/MD | Ok |
| 2 | VSTDCCC050 | VV039168.D | 25 Sep 2025 09:59 | SY/MD | Ok |
| 3 | VV0925MBL01 | VV039169.D | 25 Sep 2025 10:31 | SY/MD | Ok |
| 4 | VV0925WBL01 | VV039170.D | 25 Sep 2025 11:01 | SY/MD | Ok |
| 5 | VV0925WBS01 | VV039171.D | 25 Sep 2025 11:24 | SY/MD | Ok |
| 6 | VV0925WBSD01 | VV039172.D | 25 Sep 2025 11:48 | SY/MD | Ok |
| 7 | Q3164-02 | VV039173.D | 25 Sep 2025 12:10 | SY/MD | Ok |
| 8 | Q3175-01DL | VV039174.D | 25 Sep 2025 12:33 | SY/MD | Dilution |
| 9 | Q3175-02DL | VV039175.D | 25 Sep 2025 12:55 | SY/MD | Ok,M |
| 10 | VIBLK | VV039176.D | 25 Sep 2025 13:18 | SY/MD | Ok,M |
| 11 | Q3168-05 | VV039177.D | 25 Sep 2025 13:40 | SY/MD | ReRun |
| 12 | Q3168-06 | VV039178.D | 25 Sep 2025 14:03 | SY/MD | ReRun |
| 13 | Q3175-01DL2 | VV039179.D | 25 Sep 2025 14:25 | SY/MD | Ok,M |
| 14 | Q3172-02DL | VV039180.D | 25 Sep 2025 14:48 | SY/MD | Ok |
| 15 | VIBLK | VV039181.D | 25 Sep 2025 15:10 | SY/MD | Ok |
| 16 | Q3172-01DL | VV039182.D | 25 Sep 2025 15:33 | SY/MD | Ok |
| 17 | Q3168-05RE | VV039183.D | 25 Sep 2025 15:55 | SY/MD | Confirms |
| 18 | Q3168-06RE | VV039184.D | 25 Sep 2025 16:18 | SY/MD | Confirms |
| 19 | Q3172-03 | VV039185.D | 25 Sep 2025 16:40 | SY/MD | Ok |
| 20 | Q3195-22 | VV039186.D | 25 Sep 2025 17:03 | SY/MD | Ok |
| 21 | Q3195-23 | VV039187.D | 25 Sep 2025 17:25 | SY/MD | Ok |

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

**Instrument ID: MSVOA_V**

## Daily Analysis Runlog For Sequence/QCBatch ID # VV092525

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 9/29/2025 12:56:22 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 9/29/2025 1:08:36 AM | | |
| SubDirectory | VV092525 | HP Acquire Method | 8260_V | HP Processing Method | 82v092225w.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP135649 |
| Initial Calibration Stds | |
| CCC | VP135650,VP135651 |
| Internal Standard/PEM | VP133935 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | Q3195-24 | VV039188.D | 25 Sep 2025 17:47 | SY/MD | ReRun |
| 23 | Q3195-25 | VV039189.D | 25 Sep 2025 18:10 | SY/MD | Ok |
| 24 | Q3195-26 | VV039190.D | 25 Sep 2025 18:32 | SY/MD | Ok |
| 25 | Q3195-27 | VV039191.D | 25 Sep 2025 18:55 | SY/MD | Ok |
| 26 | Q3195-02 | VV039192.D | 25 Sep 2025 19:17 | SY/MD | Ok |
| 27 | Q3195-09 | VV039193.D | 25 Sep 2025 19:40 | SY/MD | Ok |
| 28 | Q3195-10 | VV039194.D | 25 Sep 2025 20:02 | SY/MD | Ok |
| 29 | Q3195-11 | VV039195.D | 25 Sep 2025 20:25 | SY/MD | Ok |
| 30 | VSTDCCC050 | VV039196.D | 25 Sep 2025 20:47 | SY/MD | Ok |

M : Manual Integration

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

**Instrument ID: MSVOA_V**

## Daily Analysis Runlog For Sequence/QCBatch ID # VV092625

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 9/29/2025 7:35:37 AM | | | | |
| Supervise By | mohammad ahmed | Supervise On | 10/28/2025 2:13:37 AM | | | | |
| SubDirectory | VV092625 | HP Acquire Method | MSVOA_V | | HP Processing Method | 82v09225w.m | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP135673 |
| Initial Calibration Stds | |
| CCC | VP135680,VP135681 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VV039197.D | 26 Sep 2025 08:14 | SY/MD | Ok |
| 2 | VSTDCCC050 | VV039198.D | 26 Sep 2025 09:20 | SY/MD | Ok |
| 3 | VV0926MBL01 | VV039199.D | 26 Sep 2025 10:00 | SY/MD | Ok |
| 4 | VV0926WBL01 | VV039200.D | 26 Sep 2025 10:23 | SY/MD | Ok |
| 5 | VV0926WBS01 | VV039201.D | 26 Sep 2025 10:49 | SY/MD | Ok |
| 6 | VV0926WBSD01 | VV039202.D | 26 Sep 2025 11:13 | SY/MD | Ok |
| 7 | Q3195-24 | VV039203.D | 26 Sep 2025 11:36 | SY/MD | Ok |
| 8 | Q3195-12 | VV039204.D | 26 Sep 2025 11:58 | SY/MD | Ok |
| 9 | Q3195-04 | VV039205.D | 26 Sep 2025 12:21 | SY/MD | Ok |
| 10 | Q3195-01 | VV039206.D | 26 Sep 2025 12:43 | SY/MD | Ok |
| 11 | Q3195-03 | VV039207.D | 26 Sep 2025 13:06 | SY/MD | Ok |
| 12 | Q3195-05 | VV039208.D | 26 Sep 2025 13:28 | SY/MD | Ok |
| 13 | Q3195-06 | VV039209.D | 26 Sep 2025 13:51 | SY/MD | Ok,M |
| 14 | Q3195-07 | VV039210.D | 26 Sep 2025 14:13 | SY/MD | ReRun |
| 15 | Q3195-08 | VV039211.D | 26 Sep 2025 14:36 | SY/MD | Ok |
| 16 | Q3195-13 | VV039212.D | 26 Sep 2025 14:58 | SY/MD | Ok |
| 17 | Q3195-14 | VV039213.D | 26 Sep 2025 15:20 | SY/MD | Ok |
| 18 | Q3195-15 | VV039214.D | 26 Sep 2025 15:43 | SY/MD | Dilution |
| 19 | Q3195-16 | VV039215.D | 26 Sep 2025 16:05 | SY/MD | Dilution |
| 20 | Q3195-17 | VV039216.D | 26 Sep 2025 16:28 | SY/MD | Dilution |
| 21 | Q3195-18 | VV039217.D | 26 Sep 2025 16:50 | SY/MD | ReRun |

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

**Instrument ID: MSVOA_V**

## Daily Analysis Runlog For Sequence/QCBatch ID # VV092625

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 9/29/2025 7:35:37 AM | | | | |
| Supervise By | mohammad ahmed | Supervise On | 10/28/2025 2:13:37 AM | | | | |
| SubDirectory | VV092625 | HP Acquire Method | MSVOA_V | HP Processing Method | 82v09225w.m | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP135673 |
| Initial Calibration Stds | |
| CCC | VP135680,VP135681 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | Q3195-19 | VV039218.D | 26 Sep 2025 17:13 | SY/MD | Not Ok |
| 23 | VSTDCCC050 | VV039219.D | 26 Sep 2025 17:35 | SY/MD | Ok |

M : Manual Integration

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

**Instrument ID: MSVOA_V**

## Daily Analysis Runlog For Sequence/QCBatch ID # VV092925

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 10/3/2025 2:25:04 AM | | | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 10/3/2025 2:34:55 AM | | | | |
| SubDirectory | VV092925 | HP Acquire Method | MSVOA_V | HP Processing Method | 82v092225w.m | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP135688 |
| Initial Calibration Stds | |
| CCC | VP135689,VP135690 |
| Internal Standard/PEM | VP133935 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VV039220.D | 29 Sep 2025 09:48 | SY/MD | Ok |
| 2 | VSTDCCC050 | VV039221.D | 29 Sep 2025 11:11 | SY/MD | Ok |
| 3 | VV0929MBL01 | VV039222.D | 29 Sep 2025 11:38 | SY/MD | Ok |
| 4 | VV0929WBL01 | VV039223.D | 29 Sep 2025 12:00 | SY/MD | Ok |
| 5 | VV0929WBS01 | VV039224.D | 29 Sep 2025 12:23 | SY/MD | Ok |
| 6 | VV0929WBSD01 | VV039225.D | 29 Sep 2025 12:45 | SY/MD | Ok |
| 7 | Q3195-15DL | VV039226.D | 29 Sep 2025 13:08 | SY/MD | Ok |
| 8 | Q3195-18 | VV039227.D | 29 Sep 2025 13:31 | SY/MD | Ok,M |
| 9 | Q3195-19 | VV039228.D | 29 Sep 2025 13:53 | SY/MD | Ok |
| 10 | Q3195-07 | VV039229.D | 29 Sep 2025 14:16 | SY/MD | Ok |
| 11 | Q3195-16DL | VV039230.D | 29 Sep 2025 14:38 | SY/MD | Ok |
| 12 | Q3195-17DL | VV039231.D | 29 Sep 2025 15:01 | SY/MD | Ok |
| 13 | PB169894TB | VV039232.D | 29 Sep 2025 15:23 | SY/MD | Ok |
| 14 | Q3231-04 | VV039233.D | 29 Sep 2025 15:45 | SY/MD | ReRun |
| 15 | Q3231-08 | VV039234.D | 29 Sep 2025 16:08 | SY/MD | Ok |
| 16 | Q3231-12 | VV039235.D | 29 Sep 2025 16:30 | SY/MD | Ok |
| 17 | Q3231-16 | VV039236.D | 29 Sep 2025 16:53 | SY/MD | Ok |
| 18 | Q3195-20MS | VV039237.D | 29 Sep 2025 17:15 | SY/MD | Ok |
| 19 | Q3195-21MSD | VV039238.D | 29 Sep 2025 17:38 | SY/MD | Ok |
| 20 | VIBLK | VV039239.D | 29 Sep 2025 18:00 | SY/MD | Ok |
| 21 | VSTDCCC050 | VV039240.D | 29 Sep 2025 18:23 | SY/MD | Ok |

M : Manual Integration

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

**Instrument ID:** MSVOA_V

## Daily Analysis Runlog For Sequence/QCBatch ID # VV092225

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 9/26/2025 1:39:32 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 9/26/2025 1:56:56 AM | | |
| SubDirectory | VV092225 | HP Acquire Method | MSVOA_V | HP Processing Method | 82v092225w.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP135580 |
| Initial Calibration Stds | VP135581,VP135582,VP135583,VP135584,VP135585,VP135586 |
| CCC | |
| Internal Standard/PEM | VP133935 |
| ICV/I.BLK | VP135587 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VV039134.D | 22 Sep 2025 10:15 | | SY/MD | Ok |
| 2 | VSTDICC001 | VSTDICC001 | VV039135.D | 22 Sep 2025 10:59 | Not use | SY/MD | Not Ok |
| 3 | VSTDICC005 | VSTDICC005 | VV039136.D | 22 Sep 2025 11:30 | Not use | SY/MD | Not Ok |
| 4 | VSTDICC010 | VSTDICC010 | VV039137.D | 22 Sep 2025 12:26 | | SY/MD | Ok |
| 5 | VSTDICC020 | VSTDICC020 | VV039138.D | 22 Sep 2025 12:48 | QR- 06,16,20,70,92 | SY/MD | Ok |
| 6 | VSTDICCC050 | VSTDICCC050 | VV039139.D | 22 Sep 2025 13:26 | LR- 41,58,59 | SY/MD | Ok |
| 7 | VSTDICC100 | VSTDICC100 | VV039140.D | 22 Sep 2025 13:49 | | SY/MD | Ok |
| 8 | VIBLK | VIBLK | VV039141.D | 22 Sep 2025 14:21 | | SY/MD | Ok |
| 9 | VSTDICC005 | VSTDICC005 | VV039142.D | 22 Sep 2025 15:37 | | SY/MD | Ok,M |
| 10 | VSTDICC001 | VSTDICC001 | VV039143.D | 22 Sep 2025 16:35 | | SY/MD | Ok,M |
| 11 | VSTDICV050 | ICVVV092225 | VV039144.D | 22 Sep 2025 16:58 | Goof for Non-DOD | SY/MD | Ok,M |

M : Manual Integration

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

**Instrument ID:** MSVOA_V

## Daily Analysis Runlog For Sequence/QCBatch ID # VV092525

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 9/29/2025 12:56:22 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 9/29/2025 1:08:36 AM | | |
| SubDirectory | VV092525 | HP Acquire Method | 8260_V | HP Processing Method | 82v092225w.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP135649 |
| Initial Calibration Stds | |
| CCC | VP135650,VP135651 |
| Internal Standard/PEM | VP133935 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VV039167.D | 25 Sep 2025 09:14 | | SY/MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VV039168.D | 25 Sep 2025 09:59 | pH#lot#v14222 | SY/MD | Ok |
| 3 | VV0925MBL01 | VV0925MBL01 | VV039169.D | 25 Sep 2025 10:31 | | SY/MD | Ok |
| 4 | VV0925WBL01 | VV0925WBL01 | VV039170.D | 25 Sep 2025 11:01 | | SY/MD | Ok |
| 5 | VV0925WBS01 | VV0925WBS01 | VV039171.D | 25 Sep 2025 11:24 | | SY/MD | Ok |
| 6 | VV0925WBSD01 | VV0925WBSD01 | VV039172.D | 25 Sep 2025 11:48 | | SY/MD | Ok |
| 7 | Q3164-02 | DA-2 | VV039173.D | 25 Sep 2025 12:10 | pH<2.0 B | SY/MD | Ok |
| 8 | Q3175-01DL | MW2DL | VV039174.D | 25 Sep 2025 12:33 | Need 100X | SY/MD | Dilution |
| 9 | Q3175-02DL | MW4DL | VV039175.D | 25 Sep 2025 12:55 | | SY/MD | Ok,M |
| 10 | VIBLK | VIBLK | VV039176.D | 25 Sep 2025 13:18 | | SY/MD | Ok,M |
| 11 | Q3168-05 | TOTES COMP#1 | VV039177.D | 25 Sep 2025 13:40 | pH<2.0 A, Surrogate fail | SY/MD | ReRun |
| 12 | Q3168-06 | TOTES COMP#2 | VV039178.D | 25 Sep 2025 14:03 | pH<2.0 A, Surrogate fail | SY/MD | ReRun |
| 13 | Q3175-01DL2 | MW2DL2 | VV039179.D | 25 Sep 2025 14:25 | | SY/MD | Ok,M |
| 14 | Q3172-02DL | FW6DDL | VV039180.D | 25 Sep 2025 14:48 | | SY/MD | Ok |
| 15 | VIBLK | VIBLK | VV039181.D | 25 Sep 2025 15:10 | | SY/MD | Ok |
| 16 | Q3172-01DL | FW7DDL | VV039182.D | 25 Sep 2025 15:33 | Surrogate fail | SY/MD | Ok |
| 17 | Q3168-05RE | TOTES COMP#1RE | VV039183.D | 25 Sep 2025 15:55 | pH<2.0 B,Surrogate fail | SY/MD | Confirms |
| 18 | Q3168-06RE | TOTES COMP#2RE | VV039184.D | 25 Sep 2025 16:18 | pH<2.0 B,Surrogate fail | SY/MD | Confirms |

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

**Instrument ID:** MSVOA_V

## Daily Analysis Runlog For Sequence/QCBatch ID # VV092525

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 9/29/2025 12:56:22 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 9/29/2025 1:08:36 AM | | |
| SubDirectory | VV092525 | HP Acquire Method | 8260_V | HP Processing Method | 82v092225w.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP135649 |
| Initial Calibration Stds | |
| CCC | VP135650,VP135651 |
| Internal Standard/PEM | VP133935 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q3172-03 | GB3W | VV039185.D | 25 Sep 2025 16:40 | pH<2.0 A | SY/MD | Ok |
| 20 | Q3195-22 | RW-1-092425 | VV039186.D | 25 Sep 2025 17:03 | pH<2.0 A | SY/MD | Ok |
| 21 | Q3195-23 | EB-01-091925 | VV039187.D | 25 Sep 2025 17:25 | pH<2.0 A ,EB | SY/MD | Ok |
| 22 | Q3195-24 | EB-02-092225 | VV039188.D | 25 Sep 2025 17:47 | pH<2.0 A ,Internal Standard Fail | SY/MD | ReRun |
| 23 | Q3195-25 | FB-01-091925 | VV039189.D | 25 Sep 2025 18:10 | pH<2.0 A ,FB | SY/MD | Ok |
| 24 | Q3195-26 | FB-02-092225 | VV039190.D | 25 Sep 2025 18:32 | pH<2.0 A FB | SY/MD | Ok |
| 25 | Q3195-27 | TB-01-091525 | VV039191.D | 25 Sep 2025 18:55 | pH<2.0 A,TB | SY/MD | Ok |
| 26 | Q3195-02 | MW-1-091725 | VV039192.D | 25 Sep 2025 19:17 | pH<2.0 A | SY/MD | Ok |
| 27 | Q3195-09 | MW-22-091825 | VV039193.D | 25 Sep 2025 19:40 | pH<2.0 A | SY/MD | Ok |
| 28 | Q3195-10 | MW-23-092325 | VV039194.D | 25 Sep 2025 20:02 | pH<2.0 A | SY/MD | Ok |
| 29 | Q3195-11 | MW-24-091925 | VV039195.D | 25 Sep 2025 20:25 | pH<2.0 A | SY/MD | Ok |
| 30 | VSTDCCC050 | VSTDCCC050EC | VV039196.D | 25 Sep 2025 20:47 | | SY/MD | Ok |

M : Manual Integration

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

**Instrument ID:** MSVOA_V

## Daily Analysis Runlog For Sequence/QCBatch ID # VV092625

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 9/29/2025 7:35:37 AM | | |
| Supervise By | mohammad ahmed | Supervise On | 10/28/2025 2:13:37 AM | | |
| SubDirectory | VV092625 | HP Acquire Method | MSVOA_V | HP Processing Method | 82v09225w.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP135673 |
| Initial Calibration Stds | |
| CCC | VP135680,VP135681 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VV039197.D | 26 Sep 2025 08:14 | | SY/MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VV039198.D | 26 Sep 2025 09:20 | pH#lot#v14222 | SY/MD | Ok |
| 3 | VV0926MBL01 | VV0926MBL01 | VV039199.D | 26 Sep 2025 10:00 | | SY/MD | Ok |
| 4 | VV0926WBL01 | VV0926WBL01 | VV039200.D | 26 Sep 2025 10:23 | | SY/MD | Ok |
| 5 | VV0926WBS01 | VV0926WBS01 | VV039201.D | 26 Sep 2025 10:49 | | SY/MD | Ok |
| 6 | VV0926WBSD01 | VV0926WBSD01 | VV039202.D | 26 Sep 2025 11:13 | | SY/MD | Ok |
| 7 | Q3195-24 | EB-02-092225 | VV039203.D | 26 Sep 2025 11:36 | pH<2.0 B,EB | SY/MD | Ok |
| 8 | Q3195-12 | MW-26-091925 | VV039204.D | 26 Sep 2025 11:58 | pH<2.0 A | SY/MD | Ok |
| 9 | Q3195-04 | MW-4-091625 | VV039205.D | 26 Sep 2025 12:21 | pH<2.0 A | SY/MD | Ok |
| 10 | Q3195-01 | MOS-18-092225 | VV039206.D | 26 Sep 2025 12:43 | pH<2.0 A | SY/MD | Ok |
| 11 | Q3195-03 | MW-3-091525 | VV039207.D | 26 Sep 2025 13:06 | pH<2.0 A | SY/MD | Ok |
| 12 | Q3195-05 | MW-6-091625 | VV039208.D | 26 Sep 2025 13:28 | pH<2.0 A | SY/MD | Ok |
| 13 | Q3195-06 | MW-19D-092225 | VV039209.D | 26 Sep 2025 13:51 | pH<2.0 A | SY/MD | Ok,M |
| 14 | Q3195-07 | MW-19M-092325 | VV039210.D | 26 Sep 2025 14:13 | pH<2.0 A ,Surrogate Fail | SY/MD | ReRun |
| 15 | Q3195-08 | MW-21M-091925 | VV039211.D | 26 Sep 2025 14:36 | pH<2.0 A | SY/MD | Ok |
| 16 | Q3195-13 | MW-26-091925-FD | VV039212.D | 26 Sep 2025 14:58 | pH<2.0 A | SY/MD | Ok |
| 17 | Q3195-14 | MW-29-092325 | VV039213.D | 26 Sep 2025 15:20 | pH<2.0 A | SY/MD | Ok |
| 18 | Q3195-15 | MW-31S-091825 | VV039214.D | 26 Sep 2025 15:43 | pH<2.0 A ,Need 5X | SY/MD | Dilution |

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

**Instrument ID:** MSVOA_V

## Daily Analysis Runlog For Sequence/QCBatch ID # VV092625

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 9/29/2025 7:35:37 AM | | |
| Supervise By | mohammad ahmed | Supervise On | 10/28/2025 2:13:37 AM | | |
| SubDirectory | VV092625 | HP Acquire Method | MSVOA_V | HP Processing Method | 82v09225w.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP135673 |
| Initial Calibration Stds | |
| CCC | VP135680,VP135681 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q3195-16 | MW-31D-091825 | VV039215.D | 26 Sep 2025 16:05 | pH<2.0 A ,Need 40X | SY/MD | Dilution |
| 20 | Q3195-17 | MW-31D-091825-FD | VV039216.D | 26 Sep 2025 16:28 | pH<2.0 A ,Need 50X | SY/MD | Dilution |
| 21 | Q3195-18 | MW-32S-091725 | VV039217.D | 26 Sep 2025 16:50 | pH<2.0 A ,E flag of previous sample | SY/MD | ReRun |
| 22 | Q3195-19 | MW-33D-091725 | VV039218.D | 26 Sep 2025 17:13 | pH<2.0 A ,Surrogate Fail;Confirm concentration | SY/MD | Not Ok |
| 23 | VSTDCCC050 | VSTDCCC050EC | VV039219.D | 26 Sep 2025 17:35 | | SY/MD | Ok |

M : Manual Integration

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

**Instrument ID:** MSVOA_V

## Daily Analysis Runlog For Sequence/QCBatch ID # VV092925

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 10/3/2025 2:25:04 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 10/3/2025 2:34:55 AM | | |
| SubDirectory | VV092925 | HP Acquire Method | MSVOA_V | HP Processing Method | 82v092225w.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP135688 |
| Initial Calibration Stds | |
| CCC | VP135689,VP135690 |
| Internal Standard/PEM | VP133935 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VV039220.D | 29 Sep 2025 09:48 | | SY/MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VV039221.D | 29 Sep 2025 11:11 | pH#lot#v14222 | SY/MD | Ok |
| 3 | VV0929MBL01 | VV0929MBL01 | VV039222.D | 29 Sep 2025 11:38 | | SY/MD | Ok |
| 4 | VV0929WBL01 | VV0929WBL01 | VV039223.D | 29 Sep 2025 12:00 | | SY/MD | Ok |
| 5 | VV0929WBS01 | VV0929WBS01 | VV039224.D | 29 Sep 2025 12:23 | | SY/MD | Ok |
| 6 | VV0929WBSD01 | VV0929WBSD01 | VV039225.D | 29 Sep 2025 12:45 | | SY/MD | Ok |
| 7 | Q3195-15DL | MW-31S-091825DL | VV039226.D | 29 Sep 2025 13:08 | | SY/MD | Ok |
| 8 | Q3195-18 | MW-32S-091725 | VV039227.D | 29 Sep 2025 13:31 | pH<2.0 B | SY/MD | Ok,M |
| 9 | Q3195-19 | MW-33D-091725 | VV039228.D | 29 Sep 2025 13:53 | pH<2.0 B | SY/MD | Ok |
| 10 | Q3195-07 | MW-19M-092325 | VV039229.D | 29 Sep 2025 14:16 | pH<2.0 B | SY/MD | Ok |
| 11 | Q3195-16DL | MW-31D-091825DL | VV039230.D | 29 Sep 2025 14:38 | | SY/MD | Ok |
| 12 | Q3195-17DL | MW-31D-091825-FDDL | VV039231.D | 29 Sep 2025 15:01 | | SY/MD | Ok |
| 13 | PB169894TB | PB169894TB | VV039232.D | 29 Sep 2025 15:23 | | SY/MD | Ok |
| 14 | Q3231-04 | WC-1 | VV039233.D | 29 Sep 2025 15:45 | pH<6.0 A Surrogate Fail | SY/MD | ReRun |
| 15 | Q3231-08 | WC-2 | VV039234.D | 29 Sep 2025 16:08 | pH<6.0 A | SY/MD | Ok |
| 16 | Q3231-12 | WC-3 | VV039235.D | 29 Sep 2025 16:30 | pH<6.0 A | SY/MD | Ok |
| 17 | Q3231-16 | WC-4 | VV039236.D | 29 Sep 2025 16:53 | pH<6.0 A | SY/MD | Ok |
| 18 | Q3195-20MS | MW-33D-091725MS | VV039237.D | 29 Sep 2025 17:15 | pH<6.0 B | SY/MD | Ok |

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

**Instrument ID:** MSVOA_V

## Daily Analysis Runlog For Sequence/QCBatch ID # VV092925

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 10/3/2025 2:25:04 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 10/3/2025 2:34:55 AM | | |
| SubDirectory | VV092925 | HP Acquire Method | MSVOA_V | HP Processing Method | 82v092225w.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP135688 |
| Initial Calibration Stds | |
| CCC | VP135689,VP135690 |
| Internal Standard/PEM | VP133935 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q3195-21MSD | MW-33D-091725MSD | VV039238.D | 29 Sep 2025 17:38 | pH<6.0 B | SY/MD | Ok |
| 20 | VIBLK | VIBLK | VV039239.D | 29 Sep 2025 18:00 | | SY/MD | Ok |
| 21 | VSTDCCC050 | VSTDCCC050EC | VV039240.D | 29 Sep 2025 18:23 | | SY/MD | Ok |

M : Manual Integration

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

# Prep Standard - Chemical Standard Summary

**Order ID :** Q3195

**Test :** VOC-TCLVOA-10

**Prepbatch ID :**

**Sequence ID/Qc Batch ID:** VV092525,VV092625,VV092925,

**Standard ID :**
VP133935,VP133953,VP134142,VP134149,VP134933,VP135480,VP135552,VP135649,VP135650,VP135651,VP135673,VP135680,VP135681,VP135688,VP135689,VP135690,

**Chemical ID :**
V13391,V14200,V14204,V14205,V14290,V14509,V14510,V14531,V14532,V14625,V14626,V14636,V14637,V14638,V14639,V14668,V14671,V14673,V14675,V14727,V14728,V14803,V14815,V14844,V14906,V14921,V14928,V14929,V14951,V14952,V15066,V15067,V15068,W3112,

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

# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 247 | 8260 Internal Standard, 250PPM | VP133935 | 05/16/2025 | 11/12/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 05/21/2025 |

**FROM** 0.25000ml of V14290 + 24.75000ml of V14921 = Final Quantity: 25.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 218 | BFB, 25PPM | VP133953 | 05/19/2025 | 11/09/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 05/21/2025 |

**FROM** 0.25000ml of V13391 + 24.75000ml of V14626 = Final Quantity: 25.000 ml

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

# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 719 | 8260 Working STD (BCM)-First source, 400PPM | VP134142 | 06/06/2025 | 12/06/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 06/10/2025 |

**FROM** 1.00000ml of V14668 + 1.00000ml of V14671 + 1.00000ml of V14673 + 1.00000ml of V14675 + 16.00000ml of V14929 = Final Quantity: 20.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1810 | 8260 Working Std(2-CVE)-800ppm | VP134149 | 06/06/2025 | 12/06/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 06/10/2025 |

**FROM** 1.00000ml of V14636 + 1.00000ml of V14637 + 1.00000ml of V14638 + 1.00000ml of V14639 + 46.00000ml of V14929 = Final Quantity: 50.000 ml

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

# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 617 | 8260 Surrogate, 400PPM | VP134933 | 07/29/2025 | 01/29/2026 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 08/19/2025 |

**FROM** 0.40000ml of V14906 + 24.60000ml of V14625 = Final Quantity: 25.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 51 | 8260 Working STD (Acrolein) -first source, 800PPM | VP135480 | 09/16/2025 | 10/15/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 09/19/2025 |

**FROM** 1.00000ml of V15066 + 1.50000ml of V15067 + 1.50000ml of V15068 + 21.00000ml of V14625 = Final Quantity: 25.000 ml

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

# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 257 | 8260 Calibration Working STD Mix-First source, 160PPM | VP135552 | 09/22/2025 | 11/03/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 09/26/2025 |

**FROM** 0.40000ml of V14844 + 1.00000ml of V14200 + 1.00000ml of V14509 + 1.00000ml of V14510 + 1.00000ml of V14531 + 1.00000ml of V14532 + 1.00000ml of V14727 + 1.00000ml of V14728 + 1.00000ml of V14803 + 1.00000ml of V14815 + 1.00000ml of V14951 + 1.00000ml of V14952 + 1.50000ml of V14204 + 1.50000ml of V14205 + 10.60000ml of V14928 = Final Quantity: 25.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 589 | BFB TUNE CHECK | VP135649 | 09/25/2025 | 09/26/2025 | Mahesh Dadoda | None | None | John Carlone 10/02/2025 |

**FROM** 39.98400ml of W3112 + 0.01600ml of VP133953 = Final Quantity: 40.000 ml

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

# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 620 | 50 PPB CCC, 8260-Water | VP135650 | 09/25/2025 | 09/26/2025 | Mahesh Dadoda | None | None | John Carlone 10/02/2025 |

**FROM** 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP133935 + 0.01250ml of VP134149 + 0.01250ml of VP135480 + 0.01250ml of VP135552 = Final Quantity: 40.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 620 | 50 PPB CCC, 8260-Water | VP135651 | 09/25/2025 | 09/26/2025 | Mahesh Dadoda | None | None | John Carlone 10/02/2025 |

**FROM** 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP133935 + 0.01250ml of VP134149 + 0.01250ml of VP135480 + 0.01250ml of VP135552 = Final Quantity: 40.000 ml

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

# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 589 | BFB TUNE CHECK | VP135673 | 09/26/2025 | 09/27/2025 | Mahesh Dadoda | None | None | John Carlone 10/02/2025 |

**FROM** 39.98400ml of W3112 + 0.01600ml of VP133953 = Final Quantity: 40.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 620 | 50 PPB CCC, 8260-Water | VP135680 | 09/26/2025 | 09/27/2025 | Mahesh Dadoda | None | None | John Carlone 10/02/2025 |

**FROM** 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP133935 + 0.01250ml of VP134149 + 0.01250ml of VP135480 + 0.01250ml of VP135552 = Final Quantity: 40.000 ml

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

# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 620 | 50 PPB CCC, 8260-Water | VP135681 | 09/26/2025 | 09/27/2025 | Mahesh Dadoda | None | None | John Carlone 10/02/2025 |

**FROM** 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP133935 + 0.01250ml of VP134149 + 0.01250ml of VP135480 + 0.01250ml of VP135552 = Final Quantity: 40.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 589 | BFB TUNE CHECK | VP135688 | 09/29/2025 | 09/30/2025 | Mahesh Dadoda | None | None | John Carlone 10/02/2025 |

**FROM** 39.98400ml of W3112 + 0.01600ml of VP133953 = Final Quantity: 40.000 ml

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

# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 620 | 50 PPB CCC, 8260-Water | VP135689 | 09/29/2025 | 09/30/2025 | Mahesh Dadoda | None | None | John Carlone 10/02/2025 |

**FROM** 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP133935 + 0.01250ml of VP134149 + 0.01250ml of VP135480 + 0.01250ml of VP135552 = Final Quantity: 40.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 620 | 50 PPB CCC, 8260-Water | VP135690 | 09/29/2025 | 09/30/2025 | Mahesh Dadoda | None | None | John Carlone 10/02/2025 |

**FROM** 39.94450ml of W3112 + 0.00500ml of VP134142 + 0.00500ml of VP134933 + 0.00800ml of VP133935 + 0.01250ml of VP134149 + 0.01250ml of VP135480 + 0.01250ml of VP135552 = Final Quantity: 40.000 ml

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

# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30067 / BFB tuneing solution | A0191805 | 11/22/2025 | 11/22/2024 / SAM | 01/13/2023 / SAM | V13391 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml | A0200785 | 03/22/2026 | 09/22/2025 / sam | 02/28/2024 / SAM | V14200 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml | A0200785 | 03/22/2026 | 09/22/2025 / sam | 02/28/2024 / SAM | V14204 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml | A0200785 | 03/22/2026 | 09/22/2025 / sam | 02/28/2024 / SAM | V14205 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555581 / Custom Standard, 8260 Internal Std [CS 5179-1] | A0210184 | 12/12/2025 | 12/12/2024 / SAM | 04/15/2024 / SAM | V14290 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 95317 / Universal VOA Mega Mix (Min order = 5) | 021624 | 03/22/2026 | 09/22/2025 / sam | 09/17/2024 / SAM | V14509 |

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

# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 95317 / Universal VOA Mega Mix (Min order = 5) | 021624 | 03/22/2026 | 09/22/2025 / sam | 09/17/2024 / SAM | V14510 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 95319 / Revised Additions Mix (Min = 5) | 091724 | 03/22/2026 | 09/22/2025 / sam | 09/18/2024 / SAM | V14531 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 95319 / Revised Additions Mix (Min = 5) | 091724 | 03/22/2026 | 09/22/2025 / sam | 09/18/2024 / SAM | V14532 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA9077-02 / Methanol, Purge/Trap (cs=6x1L) | 23I0762004 | 01/29/2026 | 07/29/2025 / SAM | 11/26/2024 / SAM | V14625 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA9077-02 / Methanol, Purge/Trap (cs=6x1L) | 23I0762004 | 11/09/2025 | 05/09/2025 / SAM | 11/26/2024 / SAM | V14626 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | / 2-Chloroethyl vinyl ether | 120524 | 12/06/2025 | 06/06/2025 / SAM | 12/06/2024 / SAM | V14636 |

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

# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | / 2-Chloroethyl vinyl ether | 120524 | 12/06/2025 | 06/06/2025 / SAM | 12/06/2024 / SAM | V14637 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | / 2-Chloroethyl vinyl ether | 120524 | 12/06/2025 | 06/06/2025 / SAM | 12/06/2024 / SAM | V14638 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | / 2-Chloroethyl vinyl ether | 120524 | 12/06/2025 | 06/06/2025 / SAM | 12/06/2024 / SAM | V14639 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul | A0214960 | 12/06/2025 | 06/06/2025 / SAM | 12/09/2024 / SAM | V14668 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul | A0214960 | 12/06/2025 | 06/06/2025 / SAM | 12/09/2024 / SAM | V14671 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul | A0214960 | 12/06/2025 | 06/06/2025 / SAM | 12/09/2024 / SAM | V14673 |

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

# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul | A0214960 | 12/06/2025 | 06/06/2025 / SAM | 12/09/2024 / SAM | V14675 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml | A0216826 | 03/22/2026 | 09/22/2025 / sam | 12/17/2024 / SAM | V14727 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml | A0216826 | 03/22/2026 | 09/22/2025 / sam | 12/17/2024 / SAM | V14728 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS | A0220471 | 03/22/2026 | 09/22/2025 / sam | 01/08/2025 / SAM | V14803 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS | A0220471 | 03/22/2026 | 09/22/2025 / sam | 01/08/2025 / SAM | V14815 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM | A0217535 | 03/22/2026 | 09/22/2025 / sam | 01/21/2025 / SAM | V14844 |

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

# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2] | A0223904 | 07/29/2026 | 07/29/2025 / SAM | 03/24/2025 / SAM | V14906 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA9077-02 / Methanol, Purge/Trap (cs=6x1L) | 24G0262002 | 11/12/2025 | 05/12/2025 / SAM | 05/09/2025 / SAM | V14921 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA9077-02 / Methanol, Purge/Trap (cs=6x1L) | 24G0262002 | 03/22/2026 | 09/22/2025 / sam | 05/09/2025 / SAM | V14928 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA9077-02 / Methanol, Purge/Trap (cs=6x1L) | 24G0262002 | 12/06/2025 | 06/06/2025 / SAM | 05/09/2025 / SAM | V14929 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL | A0222076 | 03/22/2026 | 09/22/2025 / sam | 05/19/2025 / SAM | V14951 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL | A0222076 | 03/22/2026 | 09/22/2025 / sam | 05/19/2025 / SAM | V14952 |

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

# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 091525 | 10/15/2025 | 09/16/2025 / sam | 09/16/2025 / sam | V15066 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 091525 | 10/15/2025 | 09/16/2025 / sam | 09/16/2025 / sam | V15067 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 091525 | 10/15/2025 | 09/16/2025 / sam | 09/16/2025 / sam | V15068 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | DIW / DI Water | Daily Lab-Certified | 07/03/2029 | 07/03/2024 / Iwona | 07/03/2024 / Iwona | W3112 |

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 2310762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($CH_3OH$) (by GC, corrected for water) | ≥ 99.9 % | 100.0 % |
| Residue after Evaporation | ≤ 1.0 ppm | 0.5 ppm |
| Titrable Acid (µeq/g) | ≤ 0.3 | 0.2 |
| Titrable Base (µeq/g) | ≤ 0.10 | 0.01 |
| Water (by KF, coulometric) | ≤ 0.08 % | < 0.01 % |
| Volatile Organic Trace Analysis – Below EPA 8260B CRQL | Conforms | Conforms |

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 2310762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($CH_3OH$) (by GC, corrected for water) | ≥ 99.9 % | 100.0 % |
| Residue after Evaporation | ≤ 1.0 ppm | 0.5 ppm |
| Titrable Acid (µeq/g) | ≤ 0.3 | 0.2 |
| Titrable Base (µeq/g) | ≤ 0.10 | 0.01 |
| Water (by KF, coulometric) | ≤ 0.08 % | < 0.01 % |
| Volatile Organic Trace Analysis – Below EPA 8260B CRQL | Conforms | Conforms |

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

**Certified Reference Material CRM**

Rec 09/17/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Lot#
Methanol EG359-USQ12

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

5E-05 Balance Uncertainty

Formulated By: Prashant Chauhan 021624 DATE

Reviewed By: Pedro L. Rentas 021624 DATE

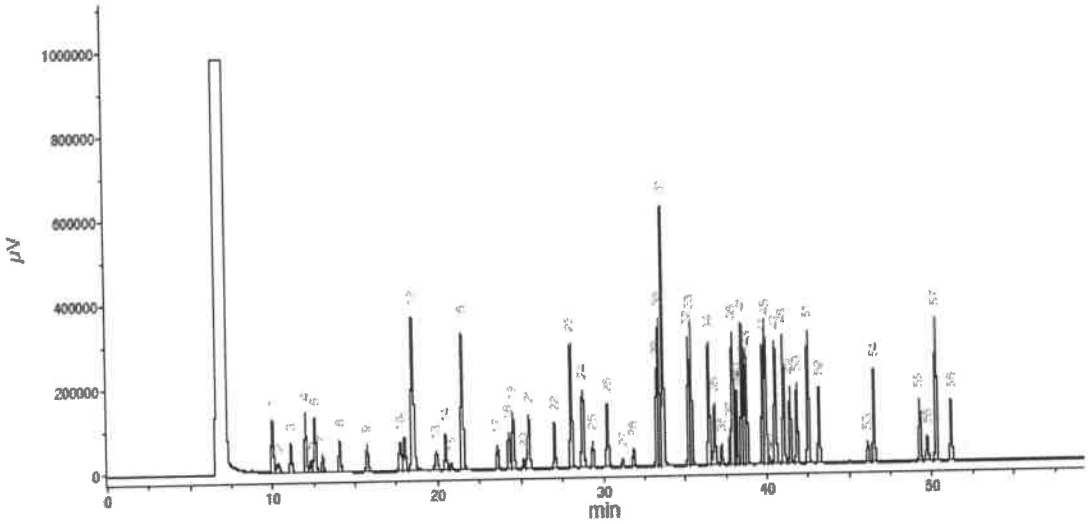
| | Compound | (RM#) Part Number | Lot Number | Dil. Factor | Initial Vol. (mL) | Initial Conc.(ug/mL) | Nominal Conc (µg/mL) | Purity (%) | Purity Uncertainty | Uncertainty Pipette (mL) | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | Acetonitrile | (0324) | 021644 | NA | NA | NA | 2000 | 99.99 | 0.2 | NA | 0.20007 | 0.20020 | 2001.3 | 8.1 | 75-05-8 | 40 ppm (70mg/m3/8H) | orl-rat 2460mg/kg |
| 2. | Allyl chloride (3-Chloropropene) | (0325) | 102396 | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20221 | 2001.4 | 8.2 | 107-05-1 | 1 ppm (3mg/m3/8H) | orl-rat 700mg/kg |
| 3. | Carbon disulphide | (0060) | MKCR6561 | NA | NA | NA | 2000 | 99.99 | 0.2 | NA | 0.20007 | 0.20023 | 2001.6 | 8.1 | 75-15-0 | 4 ppm (12mg/m3) (skin) | orl-rat 1200mg/kg |
| 4. | cis-1,4-Dichloro-2-butene | (1196) | 14718EF | NA | NA | NA | 2000 | 95 | 0.2 | NA | 0.21058 | 0.21069 | 2001.1 | 8.5 | 1476-11-5 | N/A | N/A |
| 5. | trans-1,4-Dichloro-2-butene | (0466) | MKBP6041V | NA | NA | NA | 2000 | 96.5 | 0.2 | NA | 0.20731 | 0.20748 | 2001.7 | 8.4 | 110-57-6 | N/A | N/A |
| 6. | Diethyl ether | (0153) | IK18CAS0000 | NA | NA | NA | 2000 | 99.9 | 0.2 | NA | 0.20025 | 0.20040 | 2001.5 | 8.1 | 60-29-7 | N/A | N/A |
| 7. | Ethyl methacrylate | (0381) | 06128PX | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20230 | 2002.3 | 8.2 | 97-63-2 | N/A | orl-rat 14800mg/kg |
| 8. | Iodomethane | (0489) | SHBF8718V | NA | NA | NA | 2000 | 99.5 | 0.2 | NA | 0.20106 | 0.20121 | 2001.5 | 8.2 | 74-88-4 | 5 ppm(28mg/m3/8H)(skin) | orl-rat 76mg/kg |
| 9. | 2-Methyl-1-propanol | (0445) | 15241EB | NA | NA | NA | 2000 | 99.5 | 0.2 | NA | 0.20106 | 0.20120 | 2001.4 | 8.1 | 78-83-1 | 50 ppm (150mg/m3/8H) | orl-rat 2460mg/kg |
| 10. | Methacrylonitrile | (0442) | 00427ET | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20221 | 2001.4 | 8.2 | 126-98-7 | 1 ppm (3mg/m3/8H)(skin) | orl-rat 120mg/kg |
| 11. | Methyl acrylate | (1075) | SHBK0679 | NA | NA | NA | 2000 | 99.9 | 0.2 | NA | 0.20025 | 0.20040 | 2001.5 | 8.1 | 96-33-3 | 10 ppm(35mg/m3/8H)(skin) | orl-rat 277mg/kg |
| 12. | Methyl methacrylate | (0404) | MKBW6137V | NA | NA | NA | 2000 | 99.9 | 0.2 | NA | 0.20025 | 0.20041 | 2001.6 | 8.1 | 80-62-6 | 100 ppm (410mg/m3/8H) | orl-rat 7872mg/kg |
| 13. | Nitrobenzene | (0228) | 01213TV | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20220 | 2001.3 | 8.2 | 98-95-3 | 1 ppm (5mg/m3/8H)(skin) | orl-rat 780mg/kg |
| 14. | 2-Nitropropane | (0461) | 14002JX | NA | NA | NA | 2000 | 97.3 | 0.2 | NA | 0.20560 | 0.20577 | 2001.6 | 8.3 | 79-46-9 | 10 ppm (35mg/m3/8H) | orl-rat 720mg/kg |
| 15. | Pentachloroethane | (0450) | HGA01 | NA | NA | NA | 2000 | 98 | 0.2 | NA | 0.20413 | 0.20430 | 2001.6 | 8.3 | 76-01-7 | N/A | N/A |
| 16. | 1,1,2-Trichlorotrifluoroethane | (0474) | 18930 | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20225 | 2001.8 | 8.2 | 76-13-1 | 1000 ppm (7600mg/m3/8H) | orl-rat 43g/kg |
| 17. | Bromodichloromethane | 35171 | 101623 | 0.05 | 5.00 | 40001.7 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 75-27-4 | N/A | orl-rat 916mg/kg |
| 18. | Dibromochloromethane | 35171 | 101623 | 0.05 | 5.00 | 40002.1 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 124-48-1 | N/A | orl-rat 848mg/kg |
| 19. | cis-1,2-Dichloroethene | 35171 | 101623 | 0.05 | 5.00 | 40003.1 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 156-59-2 | N/A | N/A |
| 20. | trans-1,2-Dichloroethene | 35171 | 101623 | 0.05 | 5.00 | 40002.4 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 156-60-5 | N/A | orl-rat 1235mg/kg |
| 21. | Methylene chloride | 35171 | 101623 | 0.05 | 5.00 | 40002.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 75-09-2 | 500 ppm | orl-rat 820mg/kg |
| 22. | 1,1-Dichloroethene | 32251 | 102023 | 0.10 | 10.00 | 20001.6 | 2000 | NA | NA | 0.042 | NA | NA | 1999.7 | 20.4 | 75-35-4 | 1 ppm (4mg/m3/8H) | orl-rat 200mg/kg |
| 23. | Bromoform | 95321 | 020724 | 0.10 | 10.00 | 20003.2 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 75-25-2 | 0.5 ppm (5mg/m3) (skin) | orl-rat 933mg/kg |
| 24. | Carbon tetrachloride | 95321 | 020724 | 0.10 | 10.00 | 20003.4 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.4 | 56-23-5 | 2 ppm (12.6mg/m3/8H) | orl-rat 2350mg/kg |
| 25. | Chloroform | 95321 | 020724 | 0.10 | 10.00 | 20024.0 | 2000 | NA | NA | 0.042 | NA | NA | 2001.9 | 20.5 | 67-66-3 | 50 ppm (240mg/m3) (CL) | orl-rat 908mg/kg |
| 26. | Dibromomethane | 95321 | 020724 | 0.10 | 10.00 | 20002.9 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 74-95-3 | N/A | orl-rat 108mg/kg |
| 27. | 1,1-Dichloroethane | 95321 | 020724 | 0.10 | 10.00 | 20003.4 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 75-34-3 | 100 ppm | orl-rat 725mg/kg |
| 28. | 2,2-Dichloropropane | 95321 | 020724 | 0.10 | 10.00 | 20003.4 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.4 | 594-20-7 | N/A | N/A |
| 29. | Tetrachloroethene | 95321 | 020724 | 0.10 | 10.00 | 20201.1 | 2000 | NA | NA | 0.042 | NA | NA | 2019.6 | 20.8 | 127-18-4 | 25 ppm (170mg/m3/8H)(final) | orl-rat 2629mg/kg |
| 30. | 1,1,1-Trichloroethane | 95321 | 020724 | 0.10 | 10.00 | 20003.0 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 71-55-6 | 350 ppm (1900mg/m3/8H) | orl-rat 10300mg/kg |
| 31. | 1,2-Dibromo-3-chloropropane | 35161 | 112322 | 0.05 | 5.00 | 40016.5 | 2000 | NA | NA | 0.017 | NA | NA | 2000.3 | 22.9 | 96-12-8 | 0.001 ppm | orl-rat 170mg/kg |
| 32. | 1,2-Dibromoethane | 35161 | 112322 | 0.05 | 5.00 | 40024.8 | 2000 | NA | NA | 0.017 | NA | NA | 2000.7 | 22.9 | 106-93-4 | 20 ppm (8H) | orl-rat 108mg/kg |
| 33. | 1,2-Dichloroethane | 35161 | 112322 | 0.05 | 5.00 | 40018.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.4 | 22.9 | 107-06-2 | 50 ppm (8H) | orl-rat 670mg/kg |
| 34. | 1,2-Dichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40051.0 | 2000 | NA | NA | 0.017 | NA | NA | 2002.0 | 22.9 | 78-87-5 | 75 ppm (350mg/m3/8H) | orl-rat 1947mg/kg |
| 35. | 1,3-Dichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40005.9 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 142-28-9 | N/A | unr-mus 3600mg/kg |
| 36. | 1,1-Dichloropropene | 35161 | 112322 | 0.05 | 5.00 | 40012.1 | 2000 | NA | NA | 0.017 | NA | NA | 2000.1 | 29.7 | 563-58-6 | N/A | N/A |
| 37. | cis-1,3-Dichloropropene | 35161 | 112322 | 0.05 | 5.00 | 40010.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.0 | 23.0 | 10061-01-5 | N/A | N/A |
| 38. | trans-1,3-Dichloropropene | 35161 | 112322 | 0.05 | 5.00 | 40017.6 | 2000 | NA | NA | 0.017 | NA | NA | 2000.4 | 23.0 | 10061-02-6 | N/A | N/A |
| 39. | Hexachloro-1,3-butadiene | 35161 | 112322 | 0.05 | 5.00 | 40021.9 | 2000 | NA | NA | 0.017 | NA | NA | 2000.6 | 29.7 | 87-68-3 | 0.02 ppm (0.24mg/m3/8H) | orl-rat 82mg/kg |
| 40. | 1,1,1,2-Tetrachloroethane | 35161 | 112322 | 0.05 | 5.00 | 40011.9 | 2000 | NA | NA | 0.017 | NA | NA | 2000.1 | 22.9 | 630-20-6 | N/A | orl-rat 670mg/kg |
| 41. | 1,1,2,2-Tetrachloroethane | 35161 | 112322 | 0.05 | 5.00 | 40007.5 | 2000 | NA | NA | 0.017 | NA | NA | 1999.9 | 22.9 | 79-34-5 | 5 ppm (35mg/m3/8H)(skin) | orl-rat 800mg/kg |
| 42. | 1,1,2-Trichloroethane | 35161 | 112322 | 0.05 | 5.00 | 40006.6 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 23.0 | 79-00-5 | 10 ppm (45mg/m3/8H)(skin) | orl-rat 836mg/kg |
| 43. | Trichloroethene | 35161 | 112322 | 0.05 | 5.00 | 40029.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.9 | 22.9 | 79-01-6 | 50 ppm (270mg/m3/8H) | orl-mus 2402mg/kg |
| 44. | 1,2,3-Trichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40007.5 | 2000 | NA | NA | 0.017 | NA | NA | 1999.9 | 22.9 | 96-18-4 | 10 ppm (60mg/m3/8H) | orl-rat 149.6mg/kg |
| 45. | Benzene | 35162 | 050823 | 0.05 | 5.00 | 40005.0 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 71-43-2 | 1 ppm | orl-rat 4894mg/kg |
| 46. | Bromobenzene | 35162 | 050823 | 0.05 | 5.00 | 40006.9 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-86-1 | N/A | orl-rat 2699mg/kg |
| 47. | n-Butyl benzene | 35162 | 050823 | 0.05 | 5.00 | 40003.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 104-51-8 | N/A | N/A |
| 48. | Ethyl benzene | 35162 | 050823 | 0.05 | 5.00 | 40004.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 100-41-4 | 100 ppm (435mg/m3/8H) | orl-rat >2000mg/kg |
| 49. | p-Isopropyl toluene | 35162 | 050823 | 0.05 | 5.00 | 40005.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 99-87-6 | N/A | orl-rat 4750mg/kg |
| 50. | Naphthalene | 35162 | 050823 | 0.05 | 5.00 | 40006.2 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 91-20-3 | 10 ppm (50mg/m3/8H) | orl-rat 490mg/kg |
| 51. | Styrene | 35162 | 050823 | 0.05 | 5.00 | 40004.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 100-42-5 | 100 ppm | orl-rat 5000mg/kg |
| 52. | Toluene | 35162 | 050823 | 0.05 | 5.00 | 40006.2 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-88-3 | 200 ppm | orl-rat 5000mg/kg |
| 53. | 1,2,3-Trichlorobenzene | 35162 | 050823 | 0.05 | 5.00 | 40003.1 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 87-61-6 | N/A | ipr-mus 1390mg/kg |
| 54. | 1,2,4-Trichlorobenzene | 35162 | 050823 | 0.05 | 5.00 | 40006.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 120-82-1 | 5 ppm (CL) (40mg/m3) | orl-rat 756mg/kg |
| 55. | 1,2,4-Trimethylbenzene | 35162 | 050823 | 0.05 | 5.00 | 40001.6 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 95-63-6 | N/A | orl-rat 5g/kg |
| 56. | 1,3,5-Trimethylbenzene | 35162 | 050823 | 0.05 | 5.00 | 40006.7 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-67-8 | N/A | orl-rat 5000mg/kg |
| 57. | m-Xylene | 35162 | 050823 | 0.05 | 5.00 | 40005.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-38-3 | 100 ppm (435mg/m3/8H) | orl-rat 5g/kg |
| 58. | tert-Butyl benzene | 35163 | 101923 | 0.05 | 5.00 | 40001.2 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 98-06-6 | N/A | N/A |
| 59. | sec-Butyl benzene | 35163 | 101923 | 0.05 | 5.00 | 40002.4 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 135-98-8 | N/A | orl-rat 2240mg/kg |
| 60. | Chlorobenzene | 35163 | 101923 | 0.05 | 5.00 | 40003.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 108-90-7 | 75 ppm (350mg/m3/8H) | orl-rat 2290mg/kg |
| 61. | 2-Chlorotoluene | 35163 | 101923 | 0.05 | 5.00 | 40000.3 | 2000 | NA | NA | 0.017 | NA | NA | 1999.5 | 22.9 | 95-49-8 | 50 ppm (250mg/m3/8H) | orl-rat 3900mg/kg |
| 62. | 4-Chlorotoluene | 35163 | 101923 | 0.05 | 5.00 | 40003.3 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 106-43-4 | N/A | orl-rat 2100mg/kg |
| 63. | 1,2-Dichlorobenzene | 35163 | 101923 | 0.05 | 5.00 | 40003.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 95-50-1 | 50 ppm (300mg/m3) (CL) | orl-rat 500mg/kg |
| 64. | 1,3-Dichlorobenzene | 35163 | 101923 | 0.05 | 5.00 | 40001.7 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 541-73-1 | N/A | ipr-mus 1062mg/kg |
| 65. | 1,4-Dichlorobenzene | 35163 | 101923 | 0.05 | 5.00 | 40001.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 106-46-7 | 75 ppm (450mg/m3/8H) | orl-rat 500mg/kg |
| 66. | Isopropylbenzene | 35163 | 101923 | 0.05 | 5.00 | 40000.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.5 | 22.9 | 98-82-8 | 50 ppm (245mg/m3/8H) | orl-rat 1400mg/kg |
| 67. | n-Propylbenzene | 35163 | 101923 | 0.05 | 5.00 | 40003.4 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 23.0 | 103-65-1 | N/A | orl-rat 8040mg/kg |
| 68. | o-Xylene | 35163 | 101923 | 0.05 | 5.00 | 40040.8 | 2000 | NA | NA | 0.017 | NA | NA | 2001.5 | 23.0 | 95-47-6 | 100 ppm (435mg/m3/8H) | ipr-mus 1364mg/kg |
| 69. | p-Xylene | 35163 | 101923 | 0.05 | 5.00 | 40000.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.5 | 22.9 | 106-42-3 | 100 ppm (435mg/m3/8H) | orl-rat 5g/kg |

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

## Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

**Comments**
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3




| Peak # | Name | FID RT (min.) |
|---|---|---|
| 1 | Ether | 0.97 |
| 2 | 1,1,2-Trichloro-1,2,3-trifluoroethane | 10.33 |
| 3 | 1,1-Dichloroethene | 11.10 |
| 4 | Acetonitrile | 12.00 |
| 5 | Iodomethane | 12.31 |
| 6 | Allyl chloride | 12.56 |
| 7 | Carbon disulfide/Methylene chloride | 13.04 |
| 8 | trans-1,2-Dichloroethene | 14.07 |
| 9 | 1,1-Dichloroethane | 15.74 |
| 10 | 2,2-Dichloropropane | 17.74 |
| 11 | cis-1,2-Dichloroethene | 18.00 |
| 12 | Methacrylonitrile/Methyl acrylate/Chloroform | 18.49 |
| 13 | Isobutanol/1,1,1-Trichloroethane | 18.91 |
| 14 | 1,1-Dichloropropene | 19.46 |
| 15 | Carbon tetrachloride | 20.79 |
| 16 | Benzene/1,2-Dichloroethane | 21.48 |
| 17 | Trichloroethene | 23.86 |
| 18 | 1,2-Dichloropropane | 24.26 |
| 19 | Methyl methacrylate | 24.62 |
| 20 | Bromodichloromethane | 25.13 |
| 21 | Dibromomethane/2-Nitropropane | 25.46 |
| 22 | cis-1,3-Dichloropropene | 27.02 |
| 23 | Toluene | 28.09 |
| 24 | Ethyl methacrylate/trans-1,3-Dichloropropene | 28.73 |
| 25 | 1,1,2-Trichloroethane | 29.34 |
| 26 | Tetrachloroethene/1,3-Dichloropropane | 30.34 |
| 27 | Dibromochloromethane | 31.16 |
| 28 | 1,2-Dibromoethane | 31.84 |
| 29 | Chlorobenzene | 33.26 |
| 30 | Ethylbenzene/1,1,1,2-Tetrachloroethane | 33.40 |
| 31 | m-Xylene/p-Xylene | 33.85 |
| 32 | o-Xylene | 35.33 |
| 33 | Styrene | 35.50 |
| 34 | Isopropylbenzene/Bromoform | 35.48 |
| 35 | cis-1,4-Dichloro-2-butene | 36.80 |
| 36 | 1,1,2,2-Tetrachloroethane | 37.23 |
| 37 | 1,2,3-Trichloropropane | 37.77 |
| 38 | n-Propylbenzene | 37.92 |
| 39 | trans-1,4-Dichloro-2-butene | 38.05 |
| 40 | Bromobenzene | 38.14 |
| 41 | 1,3,5-Trimethylbenzene | 38.50 |
| 42 | 2-Chlorotoluene | 38.62 |
| 43 | 4-Chlorotoluene | 38.77 |
| 44 | tert-Butylbenzene | 39.76 |
| 45 | 1,2,4-Trimethylbenzene | 39.91 |
| 46 | Pentachloroethane | 40.17 |
| 47 | sec-Butylbenzene | 40.52 |
| 48 | p-Isopropyltoluene | 41.02 |
| 49 | 1,3-Dichlorobenzene | 41.42 |
| 50 | 1,4-Dichlorobenzene | 41.63 |
| 51 | n-Butylbenzene | 42.02 |
| 52 | 1,2-Dichlorobenzene | 42.18 |
| 53 | 1,2-Dibromo-3-chloropropane | 46.12 |
| 54 | Nitrobenzene | 46.58 |
| 55 | 1,2,4-Trichlorobenzene | 49.26 |
| 56 | Hexachlorobutadiene | 49.72 |
| 57 | Naphthalene | 50.46 |
| 58 | 1,2,3-Trichlorobenzene | 51.16 |

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

**Safety Data Sheet (SDS)** GHS/OSHA Compliant

## Section I Product and Company Identification

**IDENTITY** **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

| | | | |
|---|---|---|---|
| Manufacturer's Name | ABSOLUTE STANDARDS INC | Emergency Telephone USA & CANADA | **1-800-535-5053** |
| Address | 44 Rossotto Dr. Hamden CT, 06514 | Emergency Telephone International | **1-352-323-3500** |
| | | Date Prepared/Revised | January 1, 2024 |

## Section II - Hazards Identification

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

| | | | |
|---|---|---|---|
| **H225** | **Highly Flammable Liquid and Vapor** | **H301, 311, 331** | **Toxic if swallowed, skin contact, inhaled** |
| **H370** | **Cause damage to organs** | **H351** | **Suspected of causing cancer** |
| **P271** | **Use in ventilated area** | **P280** | **Use gloves, eye protection/face sheild** |
| **P302,332** | **If on skin, wash with soap and water** | **P305,351,338** | **If in eyes, remove contacts, rinse with water** |



**Signal Word: DANGER**

## Section III - Composition

| Components (Specific Chemical Identity; Common Name(s)) | | | |
|---|---|---|---|
| Methanol | METHYL ALCOHOL | CAS#: 67-56-1 | % (optional) > 97 |

**See Certified Weight Report For Other Analytes Present At Trace Quantities.**

**INTENDED USE: REFERENCE MATERIAL**

## Section IV. FIRST AID MEASURES

| | |
|---|---|
| **General advice** | Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area. |
| **If inhaled** | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **In case of skin contact** | Wash with soap and water. Consult a physician. |
| **In case of eye contact** | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| **If swallowed** | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

## Section V. FIREFIGHTING MEASURES

| | |
|---|---|
| **Flammability** | Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking. |
| **Suitable extinguishing media** | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| **Protective equipment for fire** | Wear self contained breathing apparatus for fire fighting if necessary. |

## Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

## Section VII. HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. |
| Storage Conditions | Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

## Section IX - Physical/Chemical Characteristics

| | | | |
|---|---|---|---|
| Boiling Point | 65°C | Specific Gravity (H2O = 1) | 0.79 |
| Vapor Pressure (mm Hg) | 96 | Melting Point | -98°C |
| Vapor Density (AIR = 1) | 1.11 | Evaporation rate (Butyl Acetate = 1) | 4.6 |

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

## Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

## Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

## Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

| | |
|---|---|
| LC50 | 15,400 mg/l - 96 h |
| EC50 | 24,500.00 mg/l - 48 h |
| EC100 | 10,000.00 mg/l - 24 h |

## Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

## Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

## Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

**Certified Reference Material CRM**

Rec 09/17/24

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021624
Description: Universal VOA Megamix
69 components
Expiration Date: 021627
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

Solvent(s): Lot#
Methanol EG359-USQ12

Weight(s) shown below were combined and diluted to (mL): 100.0 | 5E-05 Balance Uncertainty | 0.021 Flask Uncertainty

Formulated By: Prashant Chauhan 021624 DATE

Reviewed By: Pedro L. Rentas 021624 DATE

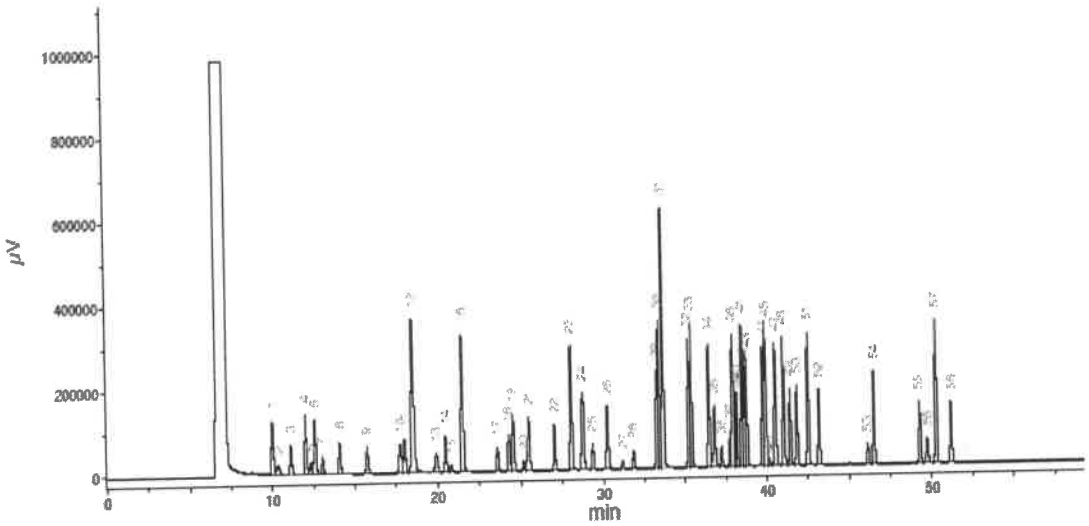
| Compound | (RM#) Part Number | Lot Number | Dil. Factor | Initial Vol. (mL) | Initial Conc.(ug/mL) | Nominal Conc (µg/mL) | Purity (%) | Purity Uncertainty | Uncertainty Pipette (mL) | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Acetonitrile | (0324) | 021644 | NA | NA | NA | 2000 | 99.99 | 0.2 | NA | 0.20007 | 0.20020 | 2001.3 | 8.1 | 75-05-8 | 40 ppm (70mg/m3/8H) | orl-rat 2460mg/kg |
| 2. Allyl chloride (3-Chloropropene) | (0325) | 102396 | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20221 | 2001.4 | 8.2 | 107-05-1 | 1 ppm (3mg/m3/8H) | orl-rat 700mg/kg |
| 3. Carbon disulphide | (0060) | MKCR6561 | NA | NA | NA | 2000 | 99.99 | 0.2 | NA | 0.20007 | 0.20023 | 2001.6 | 8.1 | 75-15-0 | 4 ppm (12mg/m3) (skin) | orl-rat 1200mg/kg |
| 4. cis-1,4-Dichloro-2-butene | (1196) | 14718EF | NA | NA | NA | 2000 | 95 | 0.2 | NA | 0.21058 | 0.21069 | 2001.1 | 8.5 | 1476-11-5 | N/A | N/A |
| 5. trans-1,4-Dichloro-2-butene | (0466) | MKBP6041V | NA | NA | NA | 2000 | 96.5 | 0.2 | NA | 0.20731 | 0.20748 | 2001.7 | 8.4 | 110-57-6 | N/A | N/A |
| 6. Diethyl ether | (0153) | IK18CAS0000 | NA | NA | NA | 2000 | 99.9 | 0.2 | NA | 0.20025 | 0.20040 | 2001.5 | 8.1 | 60-29-7 | N/A | N/A |
| 7. Ethyl methacrylate | (0381) | 06128PX | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20230 | 2002.3 | 8.2 | 97-63-2 | N/A | orl-rat 14800mg/kg |
| 8. Iodomethane | (0489) | SHBF8718V | NA | NA | NA | 2000 | 99.5 | 0.2 | NA | 0.20106 | 0.20121 | 2001.5 | 8.2 | 74-88-4 | 5 ppm(28mg/m3/8H)(skin) | orl-rat 76mg/kg |
| 9. 2-Methyl-1-propanol | (0445) | 15241EB | NA | NA | NA | 2000 | 99.5 | 0.2 | NA | 0.20106 | 0.20120 | 2001.4 | 8.1 | 78-83-1 | 50 ppm (150mg/m3/8H) | orl-rat 2460mg/kg |
| 10. Methacrylonitrile | (0442) | 00427ET | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20221 | 2001.4 | 8.2 | 126-98-7 | 1 ppm (3mg/m3/8H)(skin) | orl-rat 120mg/kg |
| 11. Methyl acrylate | (1075) | SHBK0679 | NA | NA | NA | 2000 | 99.9 | 0.2 | NA | 0.20025 | 0.20040 | 2001.5 | 8.1 | 96-33-3 | 10 ppm(35mg/m3/8H)(skin) | orl-rat 277mg/kg |
| 12. Methyl methacrylate | (0404) | MKBW5137V | NA | NA | NA | 2000 | 99.9 | 0.2 | NA | 0.20025 | 0.20041 | 2001.6 | 8.1 | 80-62-6 | 100 ppm (410mg/m3/8H) | orl-rat 7872mg/kg |
| 13. Nitrobenzene | (0228) | 01213TV | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20220 | 2001.3 | 8.2 | 98-95-3 | 1 ppm (5mg/m3/8H)(skin) | orl-rat 780mg/kg |
| 14. 2-Nitropropane | (0461) | 14002JX | NA | NA | NA | 2000 | 97.3 | 0.2 | NA | 0.20560 | 0.20577 | 2001.6 | 8.3 | 79-46-9 | 10 ppm (35mg/m3/8H) | orl-rat 720mg/kg |
| 15. Pentachloroethane | (0450) | HGA01 | NA | NA | NA | 2000 | 98 | 0.2 | NA | 0.20413 | 0.20430 | 2001.6 | 8.3 | 76-01-7 | N/A | N/A |
| 16. 1,1,2-Trichlorotrifluoroethane | (0474) | 18930 | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20225 | 2001.8 | 8.2 | 76-13-1 | 1000 ppm (7600mg/m3/8H) | orl-rat 43g/kg |
| 17. Bromodichloromethane | 35171 | 101623 | 0.05 | 5.00 | 40001.7 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 75-27-4 | N/A | orl-rat 916mg/kg |
| 18. Dibromochloromethane | 35171 | 101623 | 0.05 | 5.00 | 40002.1 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 124-48-1 | N/A | orl-rat 848mg/kg |
| 19. cis-1,2-Dichloroethene | 35171 | 101623 | 0.05 | 5.00 | 40003.1 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 156-59-2 | N/A | N/A |
| 20. trans-1,2-Dichloroethene | 35171 | 101623 | 0.05 | 5.00 | 40002.4 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 156-60-5 | N/A | orl-rat 1235mg/kg |
| 21. Methylene chloride | 35171 | 101623 | 0.05 | 5.00 | 40002.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 75-09-2 | 500 ppm | orl-rat 820mg/kg |
| 22. 1,1-Dichloroethene | 32251 | 102023 | 0.10 | 10.00 | 20001.6 | 2000 | NA | NA | 0.042 | NA | NA | 1999.7 | 20.4 | 75-35-4 | 1 ppm (4mg/m3/8H) | orl-rat 200mg/kg |
| 23. Bromoform | 95321 | 020724 | 0.10 | 10.00 | 20003.2 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 75-25-2 | 0.5 ppm (5mg/m3) (skin) | orl-rat 933mg/kg |
| 24. Carbon tetrachloride | 95321 | 020724 | 0.10 | 10.00 | 20003.4 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.4 | 56-23-5 | 2 ppm (12.6mg/m3/8H) | orl-rat 2350mg/kg |
| 25. Chloroform | 95321 | 020724 | 0.10 | 10.00 | 20024.0 | 2000 | NA | NA | 0.042 | NA | NA | 2001.9 | 20.5 | 67-66-3 | 50 ppm (240mg/m3) (CL) | orl-rat 908mg/kg |
| 26. Dibromomethane | 95321 | 020724 | 0.10 | 10.00 | 20002.9 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 74-95-3 | N/A | orl-rat 108mg/kg |
| 27. 1,1-Dichloroethane | 95321 | 020724 | 0.10 | 10.00 | 20003.4 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 75-34-3 | 100 ppm | orl-rat 725mg/kg |
| 28. 2,2-Dichloropropane | 95321 | 020724 | 0.10 | 10.00 | 20003.4 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.4 | 594-20-7 | N/A | N/A |
| 29. Tetrachloroethene | 95321 | 020724 | 0.10 | 10.00 | 20201.1 | 2000 | NA | NA | 0.042 | NA | NA | 2019.6 | 20.8 | 127-18-4 | 25 ppm (170mg/m3/8H)(final) | orl-rat 2629mg/kg |
| 30. 1,1,1-Trichloroethane | 95321 | 020724 | 0.10 | 10.00 | 20003.0 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 71-55-6 | 350 ppm (1900mg/m3/8H) | orl-rat 10300mg/kg |
| 31. 1,2-Dibromo-3-chloropropane | 35161 | 112322 | 0.05 | 5.00 | 40016.5 | 2000 | NA | NA | 0.017 | NA | NA | 2000.3 | 22.9 | 96-12-8 | 0.001 ppm | orl-rat 170mg/kg |
| 32. 1,2-Dibromoethane | 35161 | 112322 | 0.05 | 5.00 | 40024.8 | 2000 | NA | NA | 0.017 | NA | NA | 2000.7 | 22.9 | 106-93-4 | 20 ppm (8H) | orl-rat 108mg/kg |
| 33. 1,2-Dichloroethane | 35161 | 112322 | 0.05 | 5.00 | 40018.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.4 | 22.9 | 107-06-2 | 50 ppm (8H) | orl-rat 670mg/kg |
| 34. 1,2-Dichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40051.0 | 2000 | NA | NA | 0.017 | NA | NA | 2002.0 | 22.9 | 78-87-5 | 75 ppm (350mg/m3/8H) | orl-rat 1947mg/kg |
| 35. 1,3-Dichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40005.9 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 142-28-9 | N/A | unr-mus 3600mg/kg |
| 36. 1,1-Dichloropropene | 35161 | 112322 | 0.05 | 5.00 | 40012.1 | 2000 | NA | NA | 0.017 | NA | NA | 2000.1 | 29.7 | 563-58-6 | N/A | N/A |
| 37. cis-1,3-Dichloropropene | 35161 | 112322 | 0.05 | 5.00 | 40010.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.0 | 23.0 | 10061-01-5 | N/A | N/A |
| 38. trans-1,3-Dichloropropene | 35161 | 112322 | 0.05 | 5.00 | 40017.6 | 2000 | NA | NA | 0.017 | NA | NA | 2000.4 | 23.0 | 10061-02-6 | N/A | N/A |
| 39. Hexachloro-1,3-butadiene | 35161 | 112322 | 0.05 | 5.00 | 40021.9 | 2000 | NA | NA | 0.017 | NA | NA | 2000.6 | 29.7 | 87-68-3 | 0.02 ppm (0.24mg/m3/8H) | orl-rat 82mg/kg |
| 40. 1,1,1,2-Tetrachloroethane | 35161 | 112322 | 0.05 | 5.00 | 40011.9 | 2000 | NA | NA | 0.017 | NA | NA | 2000.1 | 22.9 | 630-20-6 | N/A | orl-rat 670mg/kg |
| 41. 1,1,2,2-Tetrachloroethane | 35161 | 112322 | 0.05 | 5.00 | 40007.5 | 2000 | NA | NA | 0.017 | NA | NA | 1999.9 | 22.9 | 79-34-5 | 5 ppm (35mg/m3/8H)(skin) | orl-rat 800mg/kg |
| 42. 1,1,2-Trichloroethane | 35161 | 112322 | 0.05 | 5.00 | 40006.6 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 23.0 | 79-00-5 | 10 ppm (45mg/m3/8H)(skin) | orl-rat 836mg/kg |
| 43. Trichloroethene | 35161 | 112322 | 0.05 | 5.00 | 40029.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.9 | 22.9 | 79-01-6 | 50 ppm (270mg/m3/8H) | orl-mus 2402mg/kg |
| 44. 1,2,3-Trichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40007.5 | 2000 | NA | NA | 0.017 | NA | NA | 1999.9 | 22.9 | 96-18-4 | 10 ppm (60mg/m3/8H) | orl-rat 149.6mg/kg |
| 45. Benzene | 35162 | 050823 | 0.05 | 5.00 | 40005.0 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 71-43-2 | 1 ppm | orl-rat 4894mg/kg |
| 46. Bromobenzene | 35162 | 050823 | 0.05 | 5.00 | 40006.9 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-86-1 | N/A | orl-rat 2699mg/kg |
| 47. n-Butyl benzene | 35162 | 050823 | 0.05 | 5.00 | 40003.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 104-51-8 | N/A | N/A |
| 48. Ethyl benzene | 35162 | 050823 | 0.05 | 5.00 | 40004.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 100-41-4 | 100 ppm (435mg/m3/8H) | orl-rat >2000mg/kg |
| 49. p-Isopropyl toluene | 35162 | 050823 | 0.05 | 5.00 | 40005.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 99-87-6 | N/A | orl-rat 4750mg/kg |
| 50. Naphthalene | 35162 | 050823 | 0.05 | 5.00 | 40006.2 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 91-20-3 | 10 ppm (50mg/m3/8H) | orl-rat 490mg/kg |
| 51. Styrene | 35162 | 050823 | 0.05 | 5.00 | 40004.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 100-42-5 | 100 ppm | orl-rat 5000mg/kg |
| 52. Toluene | 35162 | 050823 | 0.05 | 5.00 | 40006.2 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-88-3 | 200 ppm | orl-rat 5000mg/kg |
| 53. 1,2,3-Trichlorobenzene | 35162 | 050823 | 0.05 | 5.00 | 40003.1 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 87-61-6 | N/A | ipr-mus 1390mg/kg |
| 54. 1,2,4-Trichlorobenzene | 35162 | 050823 | 0.05 | 5.00 | 40006.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 120-82-1 | 5 ppm (CL) (40mg/m3) | orl-rat 756mg/kg |
| 55. 1,2,4-Trimethylbenzene | 35162 | 050823 | 0.05 | 5.00 | 40001.6 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 95-63-6 | N/A | orl-rat 5g/kg |
| 56. 1,3,5-Trimethylbenzene | 35162 | 050823 | 0.05 | 5.00 | 40006.7 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-67-8 | N/A | orl-rat 5000mg/kg |
| 57. m-Xylene | 35162 | 050823 | 0.05 | 5.00 | 40005.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-38-3 | 100 ppm (435mg/m3/8H) | orl-rat 5g/kg |
| 58. tert-Butyl benzene | 35163 | 101923 | 0.05 | 5.00 | 40001.2 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 98-06-6 | N/A | N/A |
| 59. sec-Butyl benzene | 35163 | 101923 | 0.05 | 5.00 | 40002.4 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 135-98-8 | N/A | orl-rat 2240mg/kg |
| 60. Chlorobenzene | 35163 | 101923 | 0.05 | 5.00 | 40003.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 108-90-7 | 75 ppm (350mg/m3/8H) | orl-rat 2290mg/kg |
| 61. 2-Chlorotoluene | 35163 | 101923 | 0.05 | 5.00 | 40000.3 | 2000 | NA | NA | 0.017 | NA | NA | 1999.5 | 22.9 | 95-49-8 | 50 ppm (250mg/m3/8H) | orl-rat 3900mg/kg |
| 62. 4-Chlorotoluene | 35163 | 101923 | 0.05 | 5.00 | 40003.3 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 106-43-4 | N/A | orl-rat 2100mg/kg |
| 63. 1,2-Dichlorobenzene | 35163 | 101923 | 0.05 | 5.00 | 40003.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 95-50-1 | 50 ppm (300mg/m3) (CL) | orl-rat 500mg/kg |
| 64. 1,3-Dichlorobenzene | 35163 | 101923 | 0.05 | 5.00 | 40001.7 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 541-73-1 | N/A | ipr-mus 1062mg/kg |
| 65. 1,4-Dichlorobenzene | 35163 | 101923 | 0.05 | 5.00 | 40001.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 106-46-7 | 75 ppm (450mg/m3/8H) | orl-rat 500mg/kg |
| 66. Isopropylbenzene | 35163 | 101923 | 0.05 | 5.00 | 40000.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.5 | 22.9 | 98-82-8 | 50 ppm (245mg/m3/8H) | orl-rat 1400mg/kg |
| 67. n-Propylbenzene | 35163 | 101923 | 0.05 | 5.00 | 40003.4 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 23.0 | 103-65-1 | N/A | orl-rat 8040mg/kg |
| 68. o-Xylene | 35163 | 101923 | 0.05 | 5.00 | 40040.8 | 2000 | NA | NA | 0.017 | NA | NA | 2001.5 | 23.0 | 95-47-6 | 100 ppm (435mg/m3/8H) | ipr-mus 1364mg/kg |
| 69. p-Xylene | 35163 | 101923 | 0.05 | 5.00 | 40000.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.5 | 22.9 | 106-42-3 | 100 ppm (435mg/m3/8H) | orl-rat 5g/kg |

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

## Run 16, "P95317 L021624 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

**Comments**
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3




| Peak # | Name | FID RT (min.) |
|---|---|---|
| 1 | Ether | 6.97 |
| 2 | 1,1,2-Trichloro-1,2,3-trifluoroethane | 10.33 |
| 3 | 1,1-Dichloroethene | 11.10 |
| 4 | Acetonitrile | 12.00 |
| 5 | Iodomethane | 12.31 |
| 6 | Allyl chloride | 12.56 |
| 7 | Carbon disulfide/Methylene chloride | 13.04 |
| 8 | trans-1,2-Dichloroethene | 14.07 |
| 9 | 1,1-Dichloroethane | 15.74 |
| 10 | 2,2-Dichloropropane | 17.74 |
| 11 | cis-1,2-Dichloroethene | 18.00 |
| 12 | Methacrylonitrile/Methyl acrylate/Chloroform | 18.49 |
| 13 | Isobutanol/1,1,1-Trichloroethane | 18.91 |
| 14 | 1,1-Dichloropropene | 19.46 |
| 15 | Carbon tetrachloride | 20.79 |
| 16 | Benzene/1,2-Dichloroethane | 21.48 |
| 17 | Trichloroethene | 23.86 |
| 18 | 1,2-Dichloropropane | 24.26 |
| 19 | Methyl methacrylate | 24.62 |
| 20 | Bromodichloromethane | 25.13 |
| 21 | Dibromomethane/2-Nitropropane | 25.46 |
| 22 | cis-1,3-Dichloropropene | 27.02 |
| 23 | Toluene | 28.09 |
| 24 | Ethyl methacrylate/trans-1,3-Dichloropropene | 28.73 |
| 25 | 1,1,2-Trichloroethane | 29.34 |
| 26 | Tetrachloroethene/1,3-Dichloropropane | 30.34 |
| 27 | Dibromochloromethane | 31.16 |
| 28 | 1,2-Dibromoethane | 31.84 |
| 29 | Chlorobenzene | 33.26 |
| 30 | Ethylbenzene/1,1,1,2-Tetrachloroethane | 33.40 |
| 31 | m-Xylene/p-Xylene | 33.85 |
| 32 | o-Xylene | 35.33 |
| 33 | Styrene | 35.39 |
| 34 | Isopropylbenzene/Bromoform | 35.48 |
| 35 | cis-1,4-Dichloro-2-butene | 36.80 |
| 36 | 1,1,2,2-Tetrachloroethane | 37.23 |
| 37 | 1,2,3-Trichloropropane | 37.77 |
| 38 | n-Propylbenzene | 37.92 |
| 39 | trans-1,4-Dichloro-2-butene | 38.05 |
| 40 | Bromobenzene | 38.14 |
| 41 | 1,3,5-Trimethylbenzene | 38.50 |
| 42 | 2-Chlorotoluene | 38.62 |
| 43 | 4-Chlorotoluene | 38.77 |
| 44 | tert-Butylbenzene | 39.76 |
| 45 | 1,2,4-Trimethylbenzene | 39.91 |
| 46 | Pentachloroethane | 40.17 |
| 47 | sec-Butylbenzene | 40.52 |
| 48 | p-Isopropyltoluene | 41.02 |
| 49 | 1,3-Dichlorobenzene | 41.12 |
| 50 | 1,4-Dichlorobenzene | 41.33 |
| 51 | n-Butylbenzene | 42.32 |
| 52 | 1,2-Dichlorobenzene | 42.18 |
| 53 | 1,2-Dibromo-3-chloropropane | 46.12 |
| 54 | Nitrobenzene | 46.58 |
| 55 | 1,2,4-Trichlorobenzene | 48.26 |
| 56 | Hexachlorobutadiene | 48.72 |
| 57 | Naphthalene | 50.26 |
| 58 | 1,2,3-Trichlorobenzene | 51.16 |

**Absolute Standards Inc.**

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

**Safety Data Sheet (SDS)** GHS/OSHA Compliant

## Section I Product and Company Identification

**IDENTITY** **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

| | | | |
|---|---|---|---|
| Manufacturer's Name | ABSOLUTE STANDARDS INC | Emergency Telephone USA & CANADA | **1-800-535-5053** |
| Address | 44 Rossotto Dr. Hamden CT, 06514 | Emergency Telephone International | **1-352-323-3500** |
| | | Date Prepared/Revised | January 1, 2024 |

## Section II - Hazards Identification

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

| | | | |
|---|---|---|---|
| **H225** | **Highly Flammable Liquid and Vapor** | **H301, 311, 331** | **Toxic if swallowed, skin contact, inhaled** |
| **H370** | **Cause damage to organs** | **H351** | **Suspected of causing cancer** |
| **P271** | **Use in ventilated area** | **P280** | **Use gloves, eye protection/face sheild** |
| **P302,332** | **If on skin, wash with soap and water** | **P305,351,338** | **If in eyes, remove contacts, rinse with water** |



**Signal Word: DANGER**

## Section III - Composition

| Components (Specific Chemical Identity; Common Name(s)) | | | |
|---|---|---|---|
| Methanol | METHYL ALCOHOL | CAS#: 67-56-1 | % (optional) > 97 |

**See Certified Weight Report For Other Analytes Present At Trace Quantities.**

**INTENDED USE: REFERENCE MATERIAL**

## Section IV. FIRST AID MEASURES

| | |
|---|---|
| **General advice** | Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area. |
| **If inhaled** | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **In case of skin contact** | Wash with soap and water. Consult a physician. |
| **In case of eye contact** | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| **If swallowed** | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

## Section V. FIREFIGHTING MEASURES

| | |
|---|---|
| **Flammability** | Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking. |
| **Suitable extinguishing media** | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| **Protective equipment for fire** | Wear self contained breathing apparatus for fire fighting if necessary. |

## Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

## Section VII. HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. |
| Storage Conditions | Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

## Section IX - Physical/Chemical Characteristics

**Absolute Standards Inc.**

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

| | | | |
|---|---|---|---|
| Boiling Point | 65°C | Specific Gravity (H2O = 1) | 0.79 |
| Vapor Pressure (mm Hg) | 96 | Melting Point | -98°C |
| Vapor Density (AIR = 1) | 1.11 | Evaporation rate (Butyl Acetate = 1) | 4.6 |

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

## Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — Vapours may form explosive mixture with air.
Conditions to avoid — Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid — Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

## Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

## Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

| | |
|---|---|
| LC50 | 15,400 mg/l - 96 h |
| EC50 | 24,500.00 mg/l - 48 h |
| EC100 | 10,000.00 mg/l - 24 h |

## Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

## Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

## Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

***Certified Reference Material CRM***

Rec 09/16/24 2 Vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Numb
https://Absolutestandards.co...

## CERTIFIED WEIGHT REPORT

**Part Number:** 91980
Lot Number: 091424
Description: Acrolein

Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

**Solvent(s):** **Lot#**
Water 072324Q

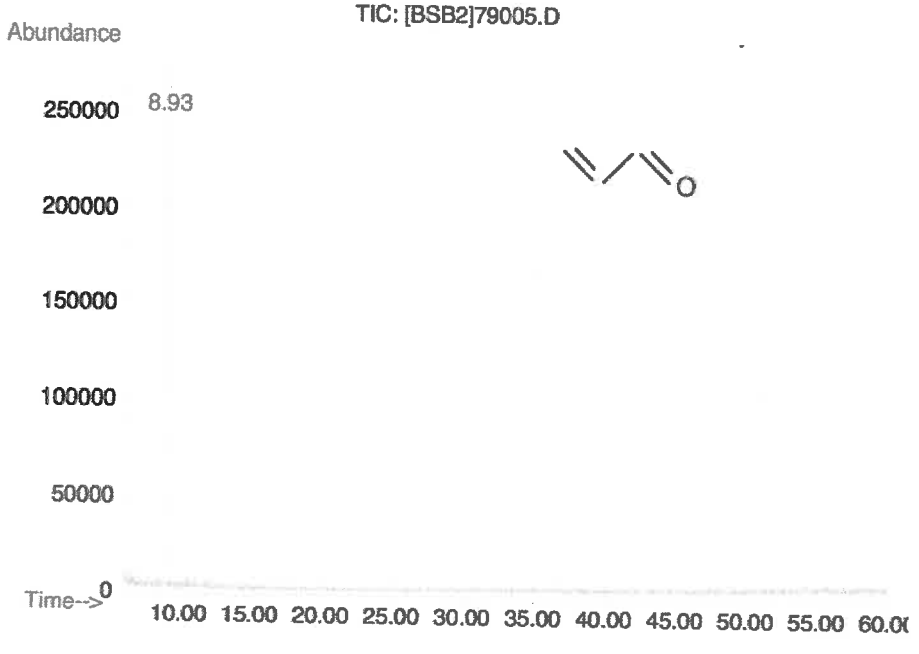
Weight(s) shown below were combined and diluted to (mL): 10.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

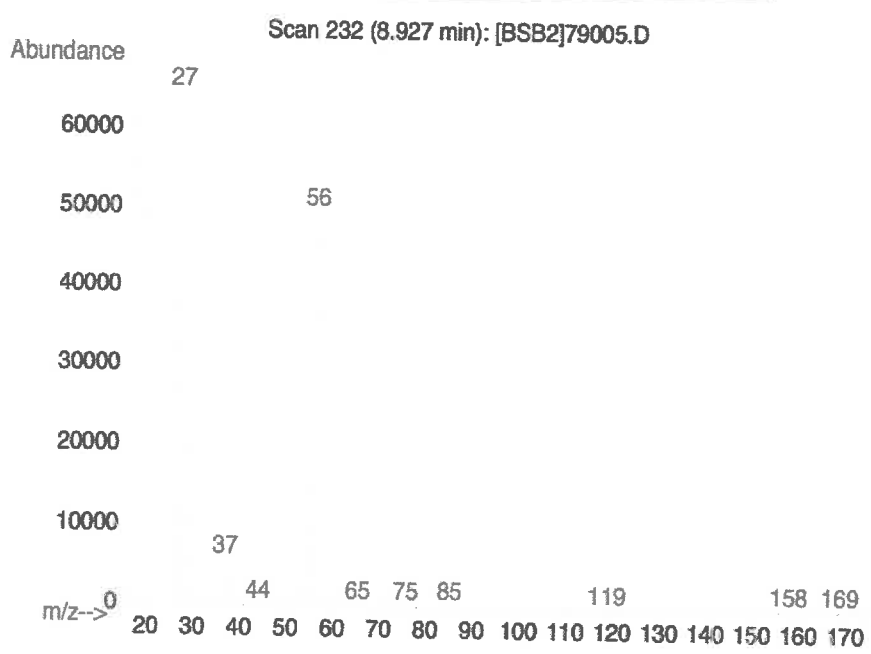
Justin Dippold 091424
Formulated By: Justin Dippold DATE

Pedro Rentas 091424
Reviewed By: Pedro L. Rentas DATE

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Acrolein | 5 | 103755V10F | 5000 | 97 | 0.5 | 0.05166 | 0.05175 | 5008.9 | 52.5 | 107-02-8 | 0.1 ppm | orl-rat 46mg/kg |

**Method:** GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C ( Time 2 = 8.75 min.). Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.




- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

**Certified Reference Material CRM**

Rec 09/16/24 2 Vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

## CERTIFIED WEIGHT REPORT

**Part Number:** 91980
**Lot Number:** 091424
**Description:** Acrolein

**Solvent(s):** Water **Lot#** 072324Q

Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

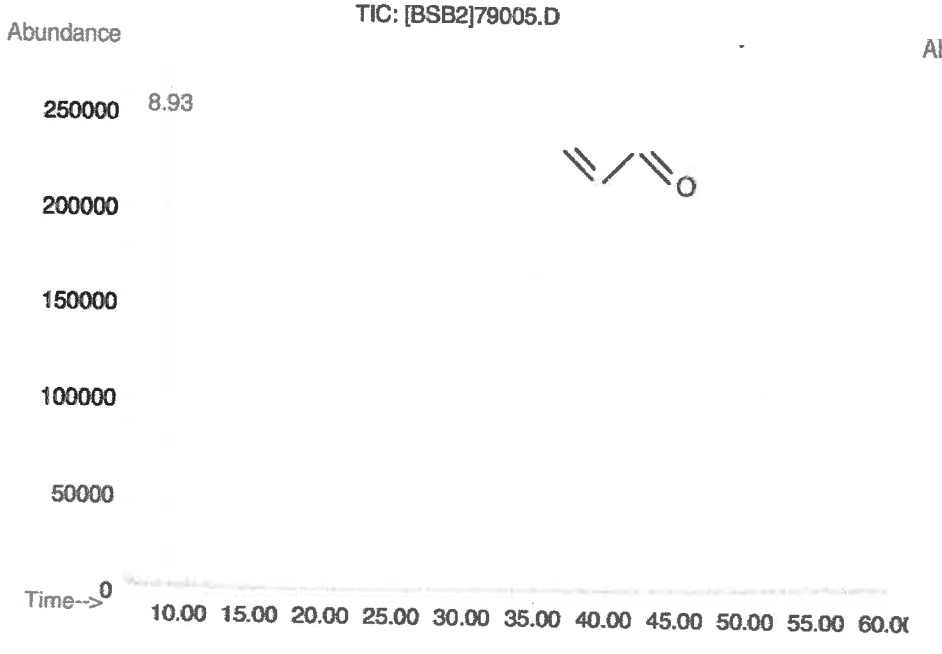
Weight(s) shown below were combined and diluted to (mL): 10.0 | 5E-05 Balance Uncertainty | 0.001 Flask Uncertainty

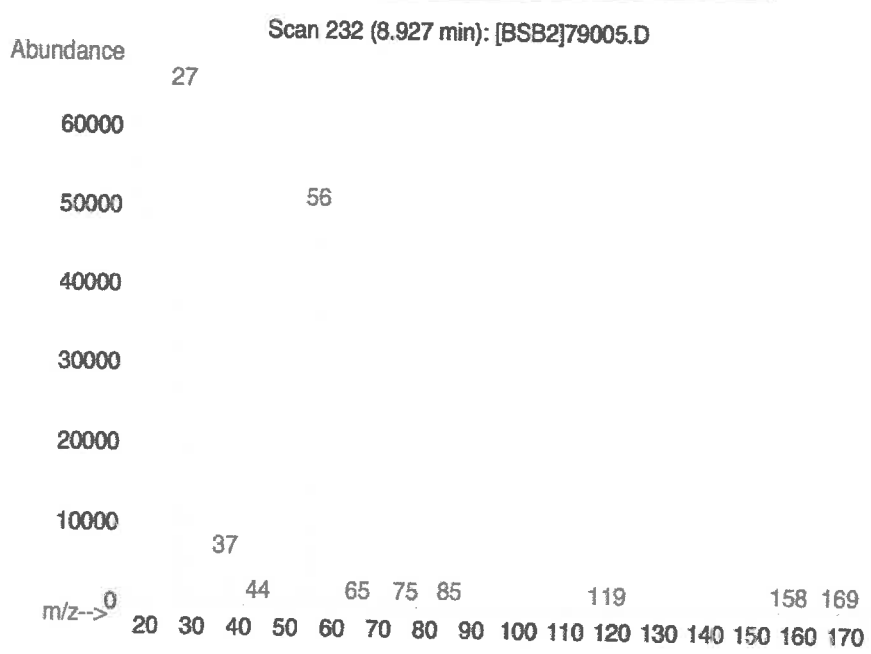
Justin Dippold 091424
Formulated By: Justin Dippold DATE

Pedro Rentas 091424
Reviewed By: Pedro L. Rentas DATE

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Acrolein | 5 | 103755V10F | 5000 | 97 | 0.5 | 0.05166 | 0.05175 | 5008.9 | 52.5 | 107-02-8 | 0.1 ppm | orl-rat 46mg/kg |

**Method:** GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C ( Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.




- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

***Certified Reference Material CRM***

Rec 12/6/24
20 vial
V14630 to
V14649

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

## CERTIFIED WEIGHT REPORT

**Part Number:** 95318
**Lot Number:** 120524
**Description:** 2-Chloroethyl vinyl ether

**Expiration Date:** 120527
**Recommended Storage:** Refrigerate (4 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test ID#:** 6UTB

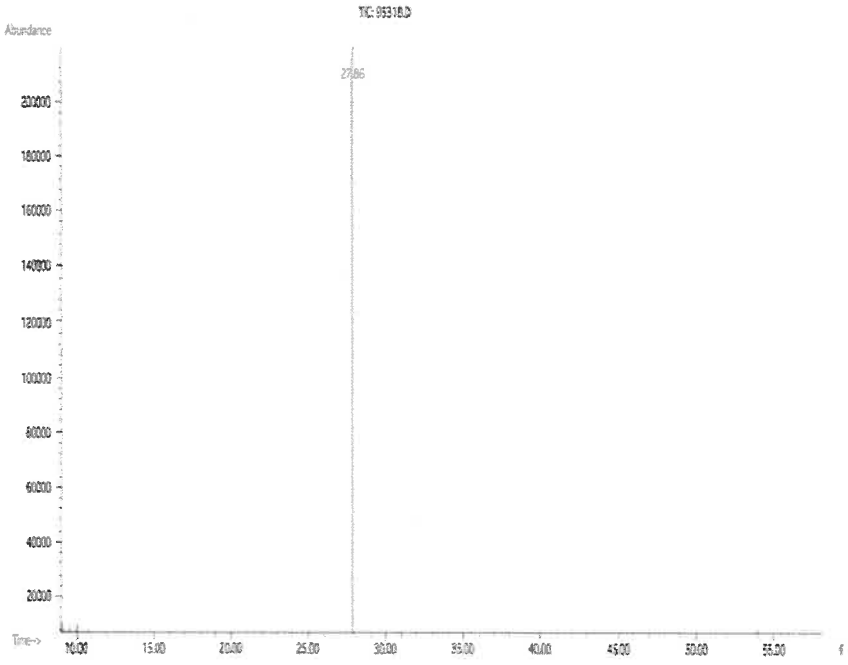
**Solvent(s):** Methanol **Lot#** EJ143-US

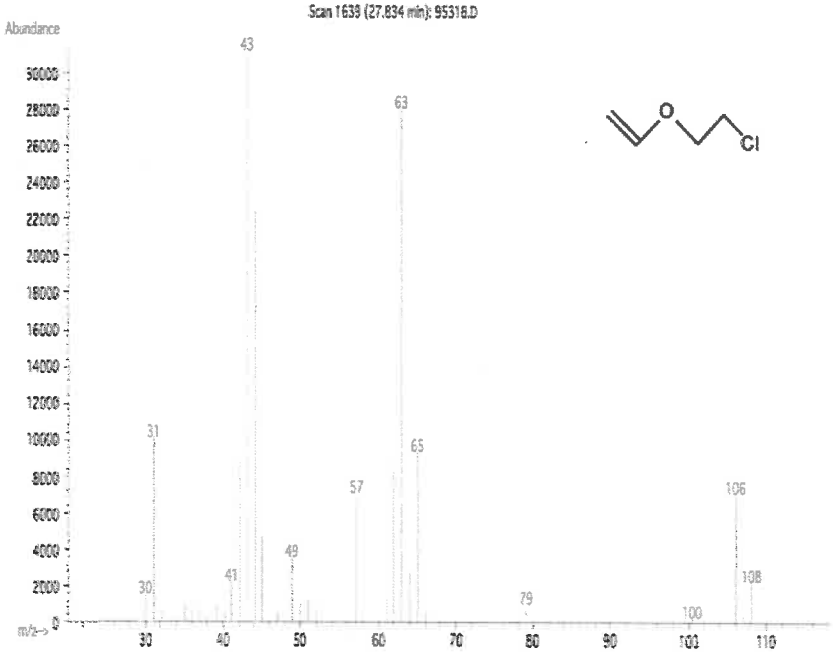
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

| | | |
|---|---|---|
| Prashant Chauhan | | 120524 |
| Formulated By: | Prashant Chauhan | DATE |
| Pedro Rentas | | 120524 |
| Reviewed By: | Pedro L. Rentas | DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight (g) | Actual Weight (g) | Actual Conc(µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. 2-Chloroethyl vinyl ether | 74 | MKCD0033 | 10000 | 99 | 0.2 | 0.50536 | 0.50550 | 10002.9 | 40.5 | 110-75-8 | N/A | ori-rat 250mg/kg |

**Method:** GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.







- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

**Safety Data Sheet (SDS)** GHS/OSHA Compliant

## Section I Product and Company Identification

**IDENTITY** **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

| | | | |
|---|---|---|---|
| Manufacturer's Name | ABSOLUTE STANDARDS INC | Emergency Telephone USA & CANADA | **1-800-535-5053** |
| Address | 44 Rossotto Dr.<br>Hamden CT, 06514 | Emergency Telephone International<br>Date Prepared/Revised | **1-352-323-3500**<br>January 1, 2024 |

## Section II - Hazards Identification

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

| | | | |
|---|---|---|---|
| **H225** | **Highly Flammable Liquid and Vapor** | **H301, 311, 331** | **Toxic if swallowed, skin contact, inhaled** |
| **H370** | **Cause damage to organs** | **H351** | **Suspected of causing cancer** |
| **P271** | **Use in ventilated area** | **P280** | **Use gloves, eye protection/face sheild** |
| **P302,332** | **If on skin, wash with soap and water** | **P305,351,338** | **If in eyes, remove contacts, rinse with water** |



**Signal Word: DANGER**

## Section III - Composition

| Components (Specific Chemical Identity; Common Name(s)) | | | % (optional) |
|---|---|---|---|
| Methanol | METHYL ALCOHOL | CAS#: 67-56-1 | > 97 |

**See Certified Weight Report For Other Analytes Present At Trace Quantities.**

**INTENDED USE: REFERENCE MATERIAL**

## Section IV. FIRST AID MEASURES

| | |
|---|---|
| **General advice** | Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area. |
| **If inhaled** | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **In case of skin contact** | Wash with soap and water. Consult a physician. |
| **In case of eye contact** | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| **If swallowed** | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

## Section V. FIREFIGHTING MEASURES

| | |
|---|---|
| **Flammability** | Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking. |
| **Suitable extinguishing media** | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| **Protective equipment for fire** | Wear self contained breathing apparatus for fire fighting if necessary. |

## Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

## Section VII. HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.<br>Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. |
| Storage Conditions | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

## Section IX - Physical/Chemical Characteristics

| | | | |
|---|---|---|---|
| Boiling Point | 65°C | Specific Gravity (H2O = 1) | 0.79 |
| Vapor Pressure (mm Hg) | 96 | Melting Point | -98°C |
| Vapor Density (AIR = 1) | 1.11 | Evaporation rate (Butyl Acetate = 1) | 4.6 |

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

## Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — Vapours may form explosive mixture with air.
Conditions to avoid — Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid — Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

## Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

## Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

| | |
|---|---|
| LC50 | 15,400 mg/l - 96 h |
| EC50 | 24,500.00 mg/l - 48 h |
| EC100 | 10,000.00 mg/l - 24 h |

## Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

## Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

## Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

***Certified Reference Material CRM***

Rec 12/6/24
20 vial
V14630 to
V14649

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

## CERTIFIED WEIGHT REPORT

**Part Number:** 95318
**Lot Number:** 120524
**Description:** 2-Chloroethyl vinyl ether

**Expiration Date:** 120527
**Recommended Storage:** Refrigerate (4 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test ID#:** 6UTB

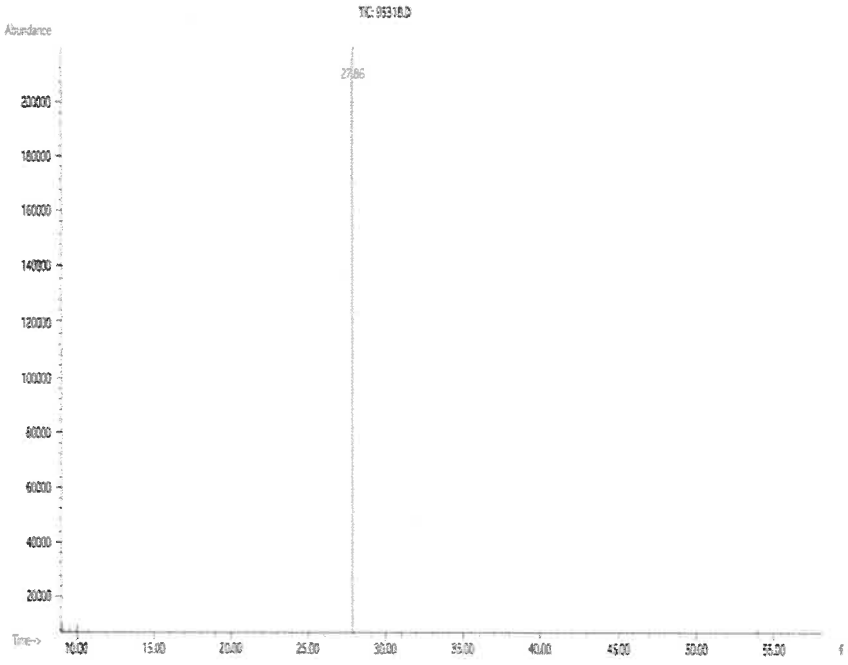
**Solvent(s):** Methanol **Lot#** EJ143-US

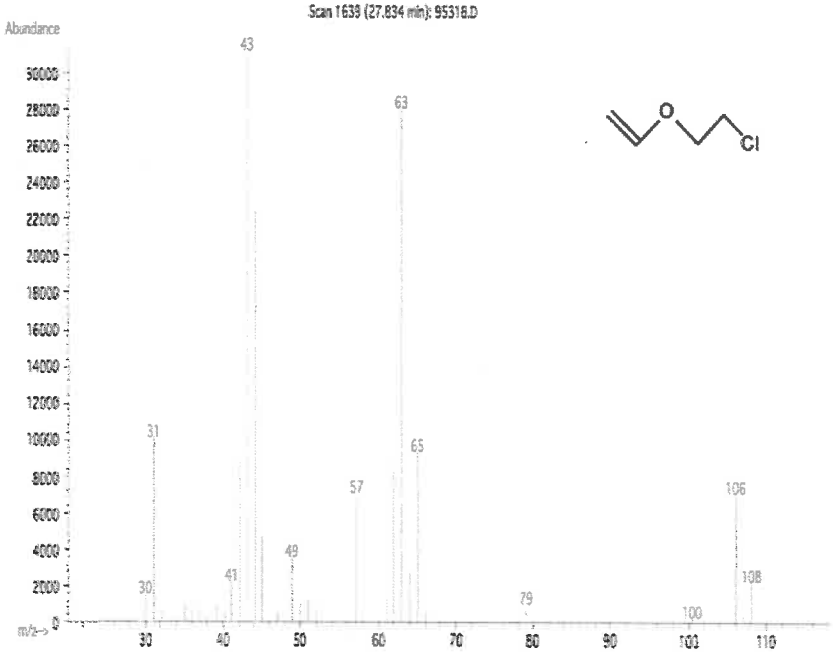
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

| | | |
|---|---|---|
| Prashant Chauhan | 120524 | |
| Formulated By: | Prashant Chauhan | DATE |
| Pedro Rentas | 120524 | |
| Reviewed By: | Pedro L. Rentas | DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight (g) | Actual Weight (g) | Actual Conc(µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. 2-Chloroethyl vinyl ether | 74 | MKCD0033 | 10000 | 99 | 0.2 | 0.50536 | 0.50550 | 10002.9 | 40.5 | 110-75-8 | N/A | ori-rat 250mg/kg |

**Method:** GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.







- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

**Safety Data Sheet (SDS)** GHS/OSHA Compliant

## Section I Product and Company Identification

**IDENTITY** **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

| | | | |
|---|---|---|---|
| Manufacturer's Name | ABSOLUTE STANDARDS INC | Emergency Telephone USA & CANADA | **1-800-535-5053** |
| Address | 44 Rossotto Dr.<br>Hamden CT, 06514 | Emergency Telephone International<br>Date Prepared/Revised | **1-352-323-3500**<br>January 1, 2024 |

## Section II - Hazards Identification

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

| | | | |
|---|---|---|---|
| **H225** | **Highly Flammable Liquid and Vapor** | **H301, 311, 331** | **Toxic if swallowed, skin contact, inhaled** |
| **H370** | **Cause damage to organs** | **H351** | **Suspected of causing cancer** |
| **P271** | **Use in ventilated area** | **P280** | **Use gloves, eye protection/face sheild** |
| **P302,332** | **If on skin, wash with soap and water** | **P305,351,338** | **If in eyes, remove contacts, rinse with water** |



**Signal Word: DANGER**

## Section III - Composition

| Components (Specific Chemical Identity; Common Name(s)) | | | % (optional) |
|---|---|---|---|
| Methanol | METHYL ALCOHOL | CAS#: 67-56-1 | > 97 |

**See Certified Weight Report For Other Analytes Present At Trace Quantities.**

**INTENDED USE: REFERENCE MATERIAL**

## Section IV. FIRST AID MEASURES

| | |
|---|---|
| **General advice** | Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area. |
| **If inhaled** | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **In case of skin contact** | Wash with soap and water. Consult a physician. |
| **In case of eye contact** | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| **If swallowed** | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

## Section V. FIREFIGHTING MEASURES

| | |
|---|---|
| **Flammability** | Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking. |
| **Suitable extinguishing media** | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| **Protective equipment for fire** | Wear self contained breathing apparatus for fire fighting if necessary. |

## Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

## Section VII. HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.<br>Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. |
| Storage Conditions | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

## Section IX - Physical/Chemical Characteristics

| | | | |
|---|---|---|---|
| Boiling Point | 65°C | Specific Gravity (H2O = 1) | 0.79 |
| Vapor Pressure (mm Hg) | 96 | Melting Point | -98°C |
| Vapor Density (AIR = 1) | 1.11 | Evaporation rate (Butyl Acetate = 1) | 4.6 |

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

## Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — Vapours may form explosive mixture with air.
Conditions to avoid — Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid — Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

## Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

## Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

| | |
|---|---|
| LC50 | 15,400 mg/l - 96 h |
| EC50 | 24,500.00 mg/l - 48 h |
| EC100 | 10,000.00 mg/l - 24 h |

## Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

## Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

## Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

**Certified Reference Material CRM**

Rec 12/6/24
20 vial
V14630 to
V14649

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

## CERTIFIED WEIGHT REPORT

**Part Number:** 95318
**Lot Number:** 120524
**Description:** 2-Chloroethyl vinyl ether

**Expiration Date:** 120527
**Recommended Storage:** Refrigerate (4 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test ID#:** 6UTB

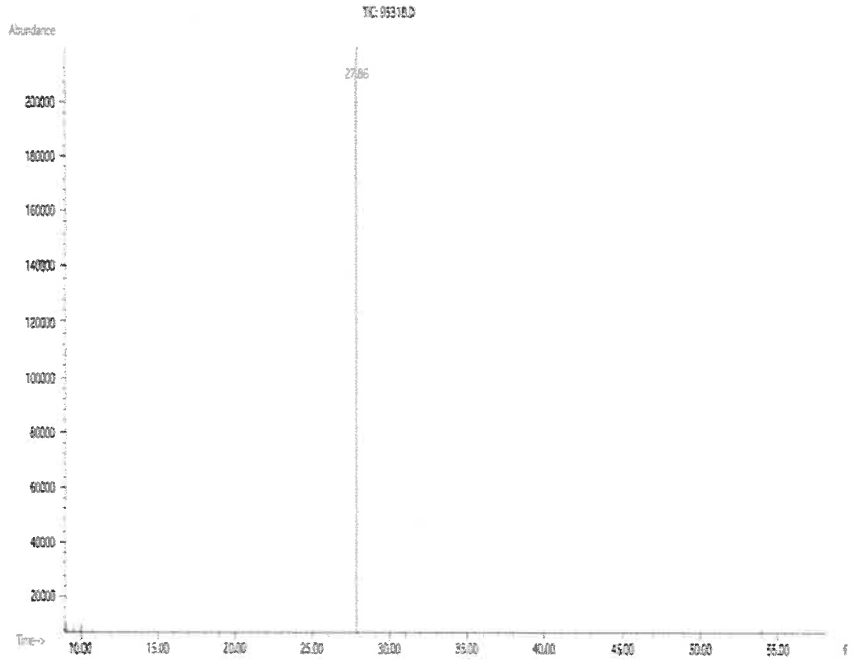
**Solvent(s):** Methanol **Lot#** EJ143-US

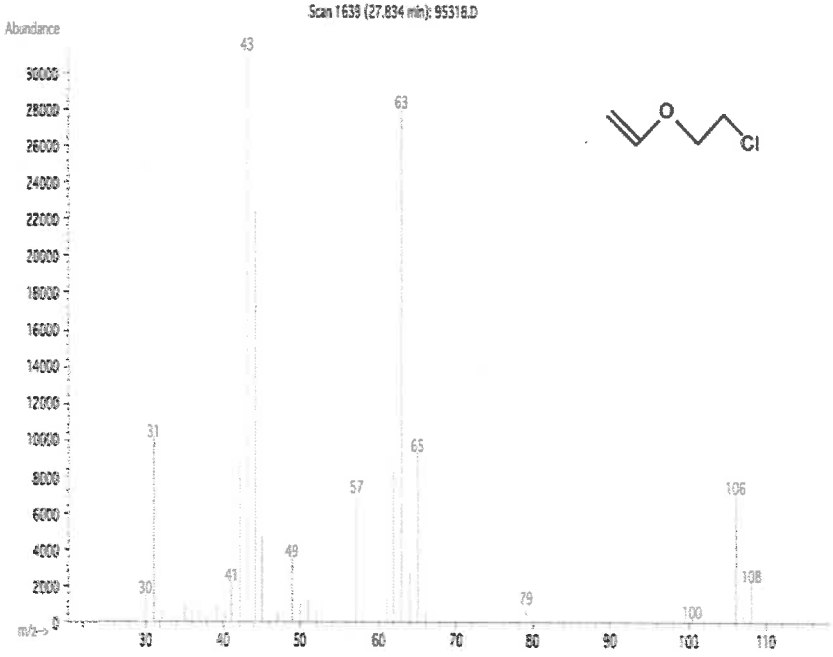
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

| | |
|---|---|
| Prashant Chauhan | 120524 |
| Formulated By: Prashant Chauhan | DATE |
| Pedro Rentas | 120524 |
| Reviewed By: Pedro L. Rentas | DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight (g) | Actual Weight (g) | Actual Conc(µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. 2-Chloroethyl vinyl ether | 74 | MKCD0033 | 10000 | 99 | 0.2 | 0.50536 | 0.50550 | 10002.9 | 40.5 | 110-75-8 | N/A | ori-rat 250mg/kg |

**Method:** GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.







- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

**Safety Data Sheet (SDS)** GHS/OSHA Compliant

## Section I Product and Company Identification

**IDENTITY** **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

| | | | |
|---|---|---|---|
| Manufacturer's Name | ABSOLUTE STANDARDS INC | Emergency Telephone USA & CANADA | **1-800-535-5053** |
| Address | 44 Rossotto Dr.<br>Hamden CT, 06514 | Emergency Telephone International<br>Date Prepared/Revised | **1-352-323-3500**<br>January 1, 2024 |

## Section II - Hazards Identification

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

| | | | |
|---|---|---|---|
| **H225** | **Highly Flammable Liquid and Vapor** | **H301, 311, 331** | **Toxic if swallowed, skin contact, inhaled** |
| **H370** | **Cause damage to organs** | **H351** | **Suspected of causing cancer** |
| **P271** | **Use in ventilated area** | **P280** | **Use gloves, eye protection/face sheild** |
| **P302,332** | **If on skin, wash with soap and water** | **P305,351,338** | **If in eyes, remove contacts, rinse with water** |



**Signal Word: DANGER**

## Section III - Composition

| Components (Specific Chemical Identity; Common Name(s)) | | | % (optional) |
|---|---|---|---|
| Methanol | METHYL ALCOHOL | CAS#: 67-56-1 | > 97 |

**See Certified Weight Report For Other Analytes Present At Trace Quantities.**

**INTENDED USE: REFERENCE MATERIAL**

## Section IV. FIRST AID MEASURES

| | |
|---|---|
| **General advice** | Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area. |
| **If inhaled** | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **In case of skin contact** | Wash with soap and water. Consult a physician. |
| **In case of eye contact** | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| **If swallowed** | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

## Section V. FIREFIGHTING MEASURES

| | |
|---|---|
| **Flammability** | Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking. |
| **Suitable extinguishing media** | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| **Protective equipment for fire** | Wear self contained breathing apparatus for fire fighting if necessary. |

## Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

## Section VII. HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.<br>Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. |
| Storage Conditions | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

## Section IX - Physical/Chemical Characteristics

| | | | |
|---|---|---|---|
| Boiling Point | 65°C | Specific Gravity (H2O = 1) | 0.79 |
| Vapor Pressure (mm Hg) | 96 | Melting Point | -98°C |
| Vapor Density (AIR = 1) | 1.11 | Evaporation rate (Butyl Acetate = 1) | 4.6 |

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

## Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — Vapours may form explosive mixture with air.
Conditions to avoid — Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid — Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

## Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

## Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

| | |
|---|---|
| LC50 | 15,400 mg/l - 96 h |
| EC50 | 24,500.00 mg/l - 48 h |
| EC100 | 10,000.00 mg/l - 24 h |

## Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

## Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

## Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

***Certified Reference Material CRM***

Rec 12/6/24
20 vial
V14630 to
V14649

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

## CERTIFIED WEIGHT REPORT

**Part Number:** 95318
**Lot Number:** 120524
**Description:** 2-Chloroethyl vinyl ether

**Expiration Date:** 120527
**Recommended Storage:** Refrigerate (4 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test ID#:** 6UTB

**Solvent(s):** Methanol **Lot#** EJ143-US

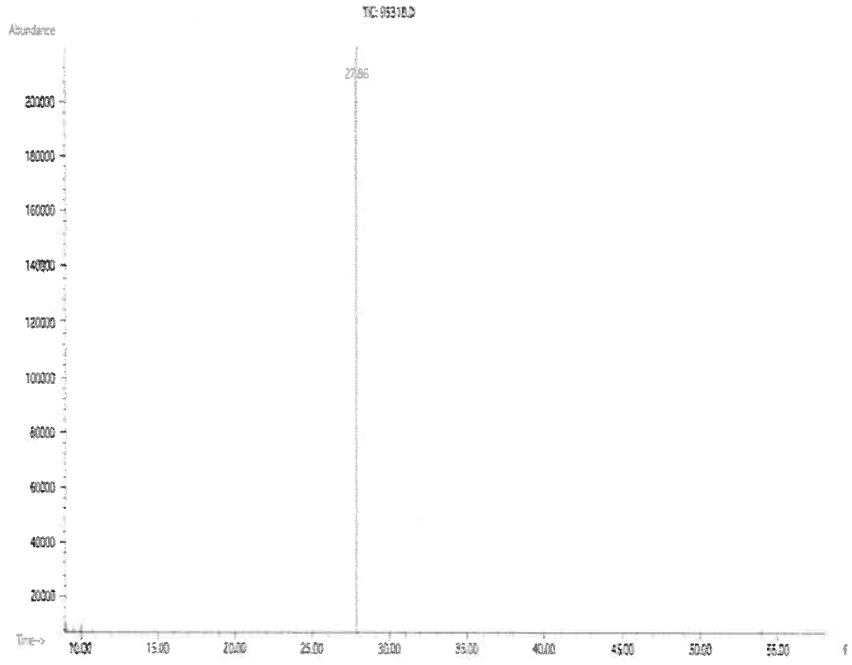
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

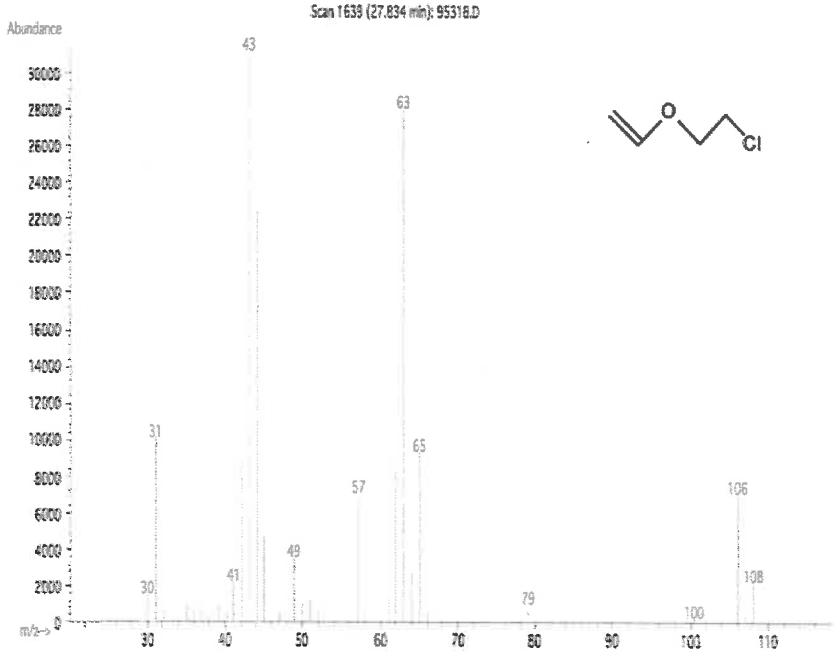
Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE

Pedro Rentas 120524
Reviewed By: Pedro L. Rentas DATE

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight (g) | Actual Weight (g) | Actual Conc(µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. 2-Chloroethyl vinyl ether | 74 | MKCD0033 | 10000 | 99 | 0.2 | 0.50536 | 0.50550 | 10002.9 | 40.5 | 110-75-8 | N/A | ori-rat 250mg/kg |

**Method:** GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.







- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

**Safety Data Sheet (SDS)** GHS/OSHA Compliant

## Section I Product and Company Identification

**IDENTITY** **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

| | | | |
|---|---|---|---|
| Manufacturer's Name | ABSOLUTE STANDARDS INC | Emergency Telephone USA & CANADA | **1-800-535-5053** |
| Address | 44 Rossotto Dr.<br>Hamden CT, 06514 | Emergency Telephone International<br>Date Prepared/Revised | **1-352-323-3500**<br>January 1, 2024 |

## Section II - Hazards Identification

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

| | | | |
|---|---|---|---|
| **H225** | **Highly Flammable Liquid and Vapor** | **H301, 311, 331** | **Toxic if swallowed, skin contact, inhaled** |
| **H370** | **Cause damage to organs** | **H351** | **Suspected of causing cancer** |
| **P271** | **Use in ventilated area** | **P280** | **Use gloves, eye protection/face sheild** |
| **P302,332** | **If on skin, wash with soap and water** | **P305,351,338** | **If in eyes, remove contacts, rinse with water** |



**Signal Word: DANGER**

## Section III - Composition

| Components (Specific Chemical Identity; Common Name(s)) | | | % (optional) |
|---|---|---|---|
| Methanol | METHYL ALCOHOL | CAS#: 67-56-1 | > 97 |

**See Certified Weight Report For Other Analytes Present At Trace Quantities.**

**INTENDED USE: REFERENCE MATERIAL**

## Section IV. FIRST AID MEASURES

| | |
|---|---|
| **General advice** | Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area. |
| **If inhaled** | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **In case of skin contact** | Wash with soap and water. Consult a physician. |
| **In case of eye contact** | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| **If swallowed** | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

## Section V. FIREFIGHTING MEASURES

| | |
|---|---|
| **Flammability** | Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking. |
| **Suitable extinguishing media** | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| **Protective equipment for fire** | Wear self contained breathing apparatus for fire fighting if necessary. |

## Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

## Section VII. HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.<br>Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. |
| Storage Conditions | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

## Section IX - Physical/Chemical Characteristics

| | | | |
|---|---|---|---|
| Boiling Point | 65°C | Specific Gravity (H2O = 1) | 0.79 |
| Vapor Pressure (mm Hg) | 96 | Melting Point | -98°C |
| Vapor Density (AIR = 1) | 1.11 | Evaporation rate (Butyl Acetate = 1) | 4.6 |

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

## Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — Vapours may form explosive mixture with air.
Conditions to avoid — Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid — Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

## Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

## Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

| | |
|---|---|
| LC50 | 15,400 mg/l - 96 h |
| EC50 | 24,500.00 mg/l - 48 h |
| EC100 | 10,000.00 mg/l - 24 h |

## Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

## Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

## Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30067 **Lot No.:** A0191805

**Description :** 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2027 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1-Bromo-4-fluorobenzene (BFB) | 460-00-4 | 184975 | 99% | 2,483.9 µg/mL | +/- 139.5488 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

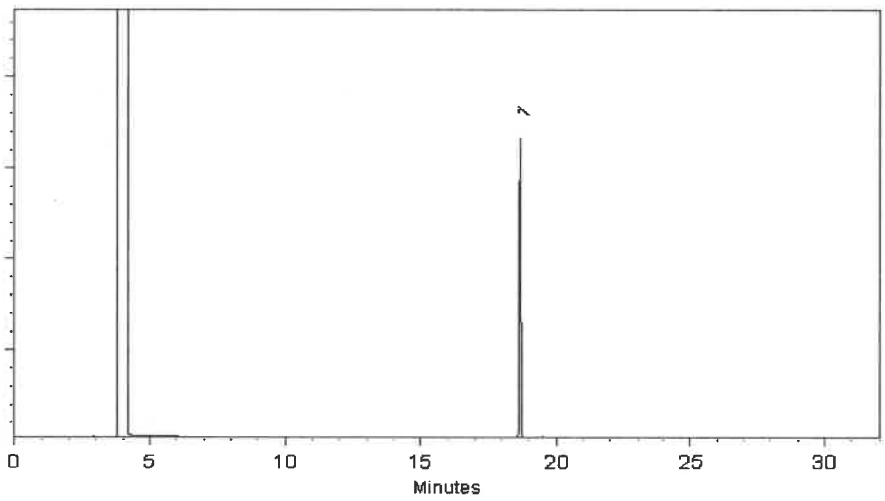
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Alicia Leathers - Operation Technician I

**Date Mixed:** 17-Nov-2022 **Balance Serial #** B251644995

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 21-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30006 **Lot No.:** A0200785

**Description :** VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2026 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Acetone | 67-64-1 | SHBP8774 | 99% | 5,018.5 µg/mL | +/- 173.4162 |
| 2 | 2-Butanone (MEK) | 78-93-3 | SHBL5543 | 99% | 5,016.0 µg/mL | +/- 173.3298 |
| 3 | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | SHBP4724 | 99% | 5,010.7 µg/mL | +/- 173.1455 |
| 4 | 2-Hexanone | 591-78-6 | MKCQ6663 | 99% | 5,015.0 µg/mL | +/- 173.2952 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol/Water (90:10)
**CAS #** 67-56-1/7732-18-5
**Purity** 99%

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

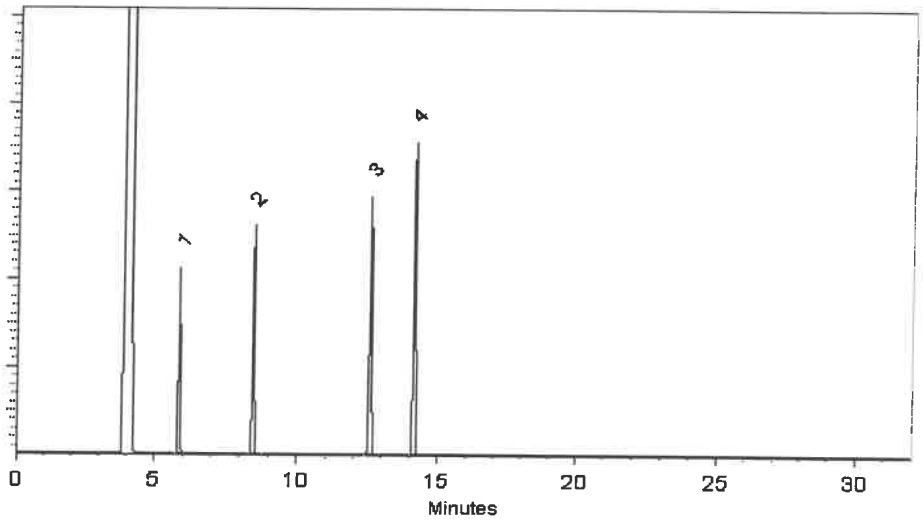
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I

**Date Mixed:** 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC

**Date Passed:** 16-Aug-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30006 **Lot No.:** A0200785

**Description :** VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2026 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Acetone | 67-64-1 | SHBP8774 | 99% | 5,018.5 µg/mL | +/- 173.4162 |
| 2 | 2-Butanone (MEK) | 78-93-3 | SHBL5543 | 99% | 5,016.0 µg/mL | +/- 173.3298 |
| 3 | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | SHBP4724 | 99% | 5,010.7 µg/mL | +/- 173.1455 |
| 4 | 2-Hexanone | 591-78-6 | MKCQ6663 | 99% | 5,015.0 µg/mL | +/- 173.2952 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol/Water (90:10)

**CAS #** 67-56-1/7732-18-5

**Purity** 99%

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

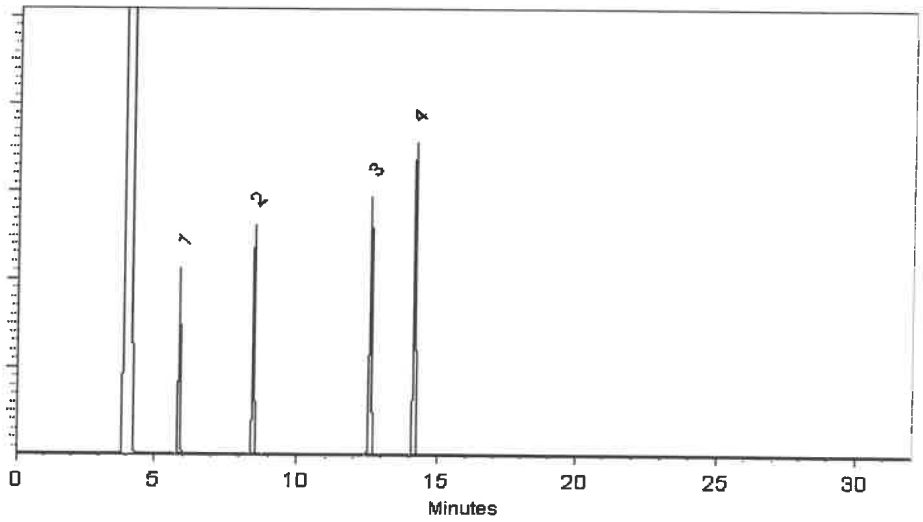
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I

**Date Mixed:** 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC

**Date Passed:** 16-Aug-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30006 **Lot No.:** A0200785

**Description :** VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2026 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Acetone | 67-64-1 | SHBP8774 | 99% | 5,018.5 µg/mL | +/- 173.4162 |
| 2 | 2-Butanone (MEK) | 78-93-3 | SHBL5543 | 99% | 5,016.0 µg/mL | +/- 173.3298 |
| 3 | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | SHBP4724 | 99% | 5,010.7 µg/mL | +/- 173.1455 |
| 4 | 2-Hexanone | 591-78-6 | MKCQ6663 | 99% | 5,015.0 µg/mL | +/- 173.2952 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol/Water (90:10)
**CAS #** 67-56-1/7732-18-5
**Purity** 99%

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

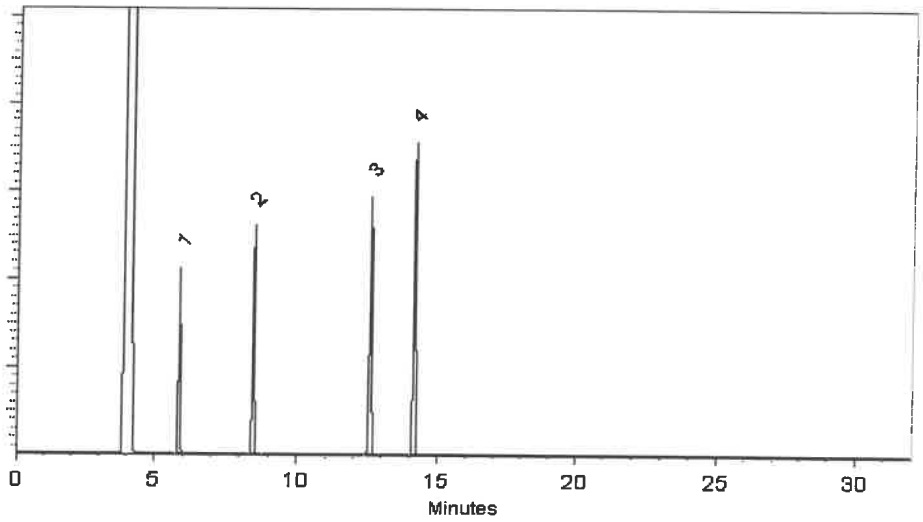
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I **Date Mixed:** 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC **Date Passed:** 16-Aug-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

## CERTIFIED REFERENCE MATERIAL

ilac-MRA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

# Certificate of Analysis

***gravimetric***

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555581 **Lot No.:** A0210184

**Description :** Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** April 30, 2027 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,4-Dichlorobenzene-d4 | 3855-82-1 | PR-30447 | 99% | 25,212.0 µg/mL | +/- 1,427.8857 |
| 2 | 1,4-Difluorobenzene | 540-36-3 | MKCS8657 | 99% | 25,220.0 µg/mL | +/- 1,428.3388 |
| 3 | Chlorobenzene-d5 | 3114-55-4 | PR-31132 | 99% | 25,116.0 µg/mL | +/- 1,422.4487 |
| 4 | Pentafluorobenzene | 363-72-4 | MKCR9383 | 99% | 25,180.0 µg/mL | +/- 1,426.0734 |

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

John Friedline - Operations Technician I

**Date Mixed:** 11-Apr-2024 **Balance:** 1127510105

REVIEWED

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

10 vial.

# CERTIFIED REFERENCE MATERIAL

Rec: 12/09/24

# Certificate of Analysis

***chromatographic plus***

V14667
V14676

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30225 **Lot No.:** A0214960

**Description :** Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** August 31, 2029 **Storage:** 0°C or colder

**Ship:** Ambient

**CERTIFIED VALUES**

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Bromochloromethane | 74-97-5 | SYN240416CTH | 99% | 2,012.0 µg/mL | +/- 113.0519 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

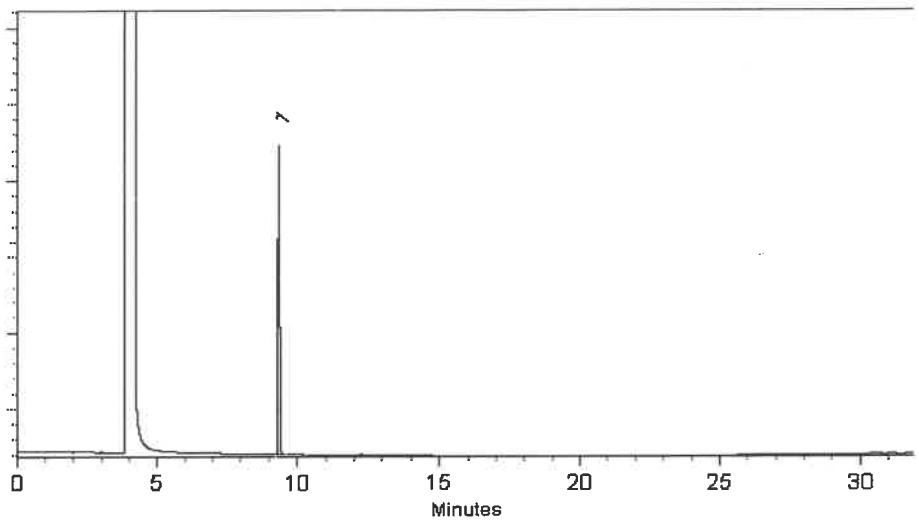
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

**Date Mixed:** 08-Aug-2024 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 14-Aug-2024

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

*k* is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

10 vial.

# CERTIFIED REFERENCE MATERIAL

Rec: 12/09/24

# Certificate of Analysis

***chromatographic plus***

V14667
V14676

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30225 **Lot No.:** A0214960

**Description :** Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** August 31, 2029 **Storage:** 0°C or colder

**Ship:** Ambient

**CERTIFIED VALUES**

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Bromochloromethane | 74-97-5 | SYN240416CTH | 99% | 2,012.0 µg/mL | +/- 113.0519 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

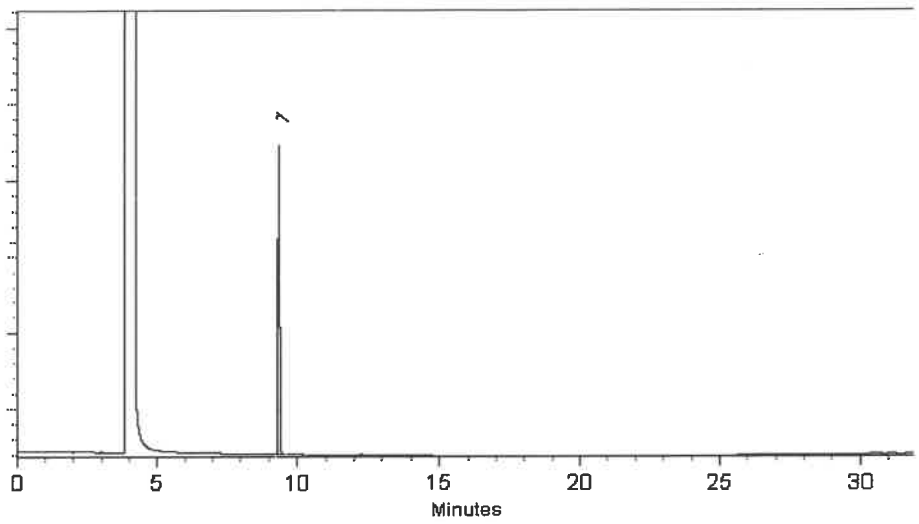
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I  **Date Mixed:** 08-Aug-2024  **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC  **Date Passed:** 14-Aug-2024

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

10 vial.

# CERTIFIED REFERENCE MATERIAL

Rec: 12/09/24

# Certificate of Analysis

***chromatographic plus***

V14667
V14676

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30225 **Lot No.:** A0214960

**Description :** Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** August 31, 2029 **Storage:** 0°C or colder

**Ship:** Ambient

**CERTIFIED VALUES**

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Bromochloromethane | 74-97-5 | SYN240416CTH | 99% | 2,012.0 µg/mL | +/- 113.0519 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

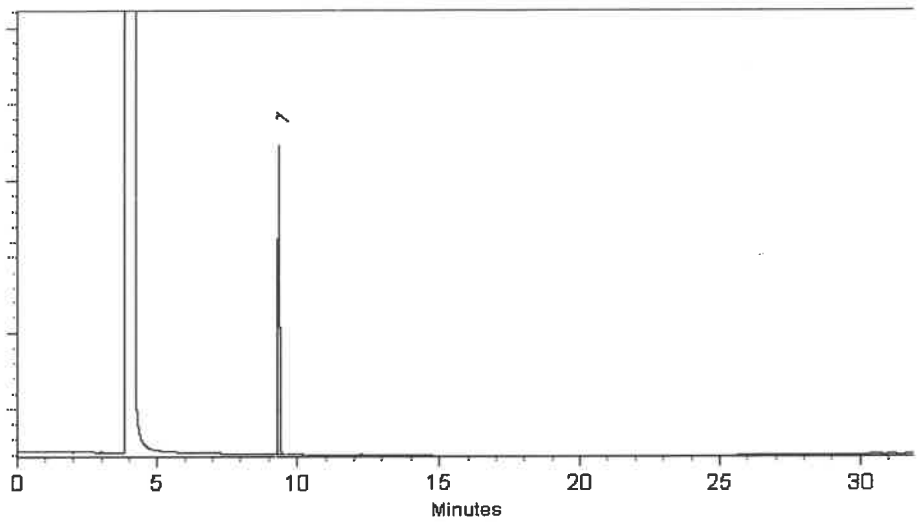
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

**Date Mixed:** 08-Aug-2024 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 14-Aug-2024

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

10 vial.

# CERTIFIED REFERENCE MATERIAL

Rec: 12/09/24

# Certificate of Analysis

***chromatographic plus***

V14667 to
V14676

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30225 **Lot No.:** A0214960

**Description :** Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** August 31, 2029 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Bromochloromethane | 74-97-5 | SYN240416CTH | 99% | 2,012.0 µg/mL | +/- 113.0519 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

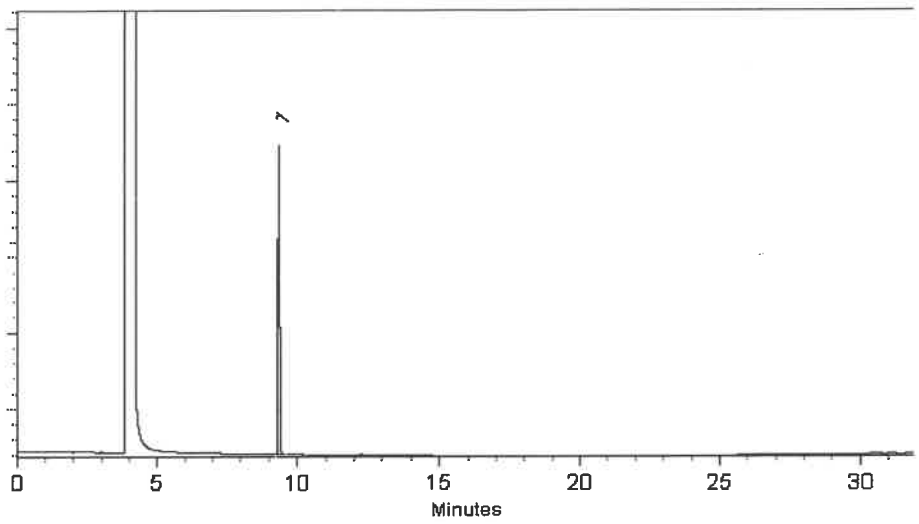
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Stacey Wanner - Operations Technician I

**Date Mixed:** 08-Aug-2024 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 14-Aug-2024

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

*k* is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 Vial

# Certificate of Analysis

***chromatographic plus***

V14727 to
V14756

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30042 **Lot No.:** A0216826

**Description :** 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** May 31, 2031 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Dichlorodifluoromethane (CFC-12) | 75-71-8 | 00022922 | 99% | 2,000.9 µg/mL | +/- 112.4144 |
| 2 | Chloromethane (methyl chloride) | 74-87-3 | 00022694 | 99% | 2,000.7 µg/mL | +/- 112.3998 |
| 3 | Vinyl chloride | 75-01-4 | 00015559 | 99% | 2,000.3 µg/mL | +/- 112.3779 |
| 4 | Bromomethane (methyl bromide) | 74-83-9 | 00017022 | 99% | 2,001.8 µg/mL | +/- 112.4650 |
| 5 | Chloroethane (ethyl chloride) | 75-00-3 | 107-401039114-1 | 99% | 2,000.1 µg/mL | +/- 112.3700 |
| 6 | Trichlorofluoromethane (CFC-11) | 75-69-4 | MKCJ8658 | 99% | 2,000.7 µg/mL | +/- 112.3992 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

# Quality Confirmation Test

**Column:**
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

**Carrier Gas:**
helium-constant flow 2.0 mL/min.

**Temp. Program:**
40°C (hold 6 min.) to 100°C
@ 6°C/min.

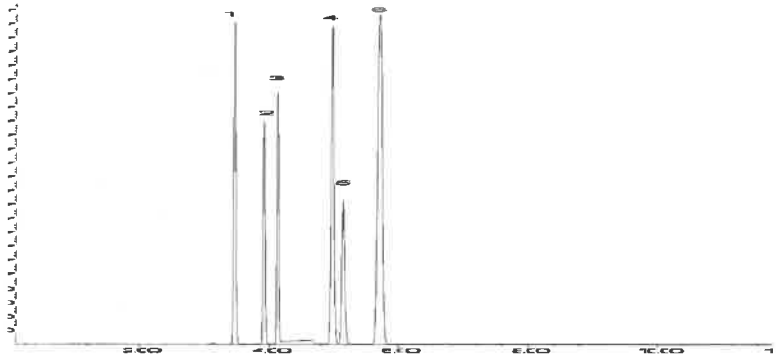
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
MSD

**Split Vent:**
Split ratio 10:1

**Inj. Vol**
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

**Date Mixed:** 23-Sep-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 04-Oct-2024

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Rec 12/17/24

CERTIFIED REFERENCE MATERIAL

30 Vial

# Certificate of Analysis

***chromatographic plus***

V14727 to
V14756

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30042 **Lot No.:** A0216826

**Description :** 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** May 31, 2031 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Dichlorodifluoromethane (CFC-12) | 75-71-8 | 00022922 | 99% | 2,000.9 µg/mL | +/- 112.4144 |
| 2 | Chloromethane (methyl chloride) | 74-87-3 | 00022694 | 99% | 2,000.7 µg/mL | +/- 112.3998 |
| 3 | Vinyl chloride | 75-01-4 | 00015559 | 99% | 2,000.3 µg/mL | +/- 112.3779 |
| 4 | Bromomethane (methyl bromide) | 74-83-9 | 00017022 | 99% | 2,001.8 µg/mL | +/- 112.4650 |
| 5 | Chloroethane (ethyl chloride) | 75-00-3 | 107-401039114-1 | 99% | 2,000.1 µg/mL | +/- 112.3700 |
| 6 | Trichlorofluoromethane (CFC-11) | 75-69-4 | MKCJ8658 | 99% | 2,000.7 µg/mL | +/- 112.3992 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

# Quality Confirmation Test

**Column:**
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

**Carrier Gas:**
helium-constant flow 2.0 mL/min.

**Temp. Program:**
40°C (hold 6 min.) to 100°C
@ 6°C/min.

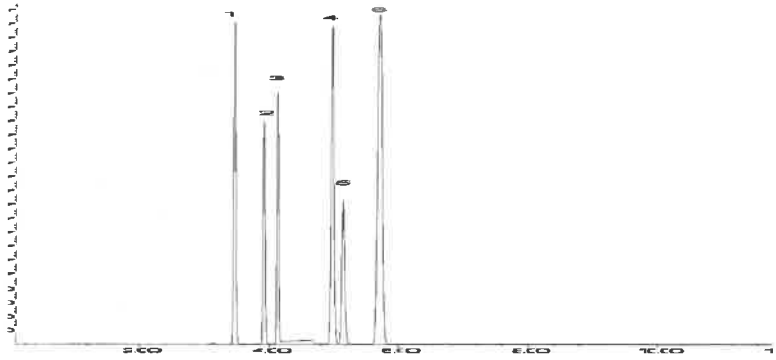
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
MSD

**Split Vent:**
Split ratio 10:1

**Inj. Vol**
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

**Date Mixed:** 23-Sep-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 04-Oct-2024

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

# Certificate of Analysis

***chromatographic plus***

J14842 to 14846

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30470 **Lot No.:** A0217535

**Description :** tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** October 31, 2027 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | tert-Butanol (TBA) | 75-65-0 | SHBQ8002-1 | 99% | 50,007.5 µg/mL | +/- 717.6137 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

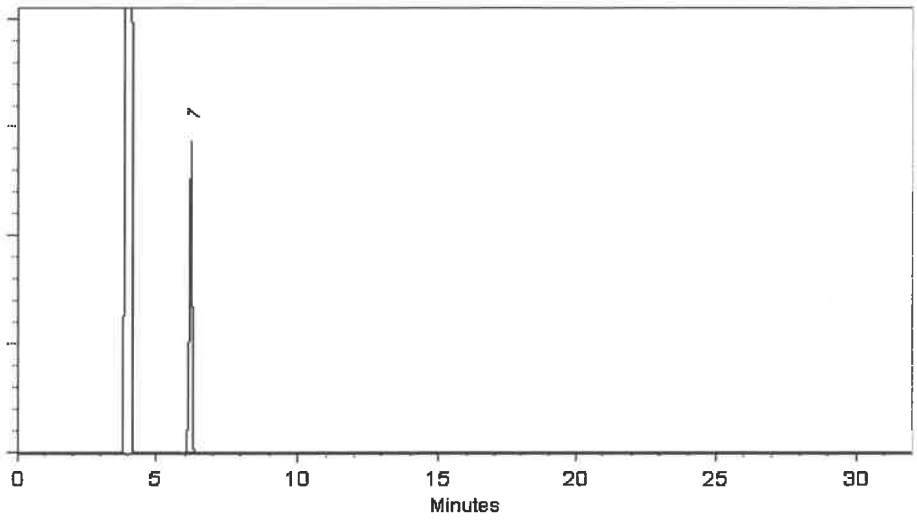
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Aaron Enyart - Operations Tech I

**Date Mixed:** 07-Oct-2024 **Balance Serial #** B251644995

Brittany Federinko - Operations Tech I

**Date Passed:** 09-Oct-2024

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Vinyl Rec 01/08/21

CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic*

V14803 - V14822

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555408-SL **Lot No.:** A0220471

**Description :** Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** June 30, 2026 **Storage:** -20°C or colder

**Handling:** This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Vinyl acetate | 108-05-4 | RD240423RSR | 99% | 8,066.0 µg/mL | +/- 278.7979 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

**Tech Tips:**

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

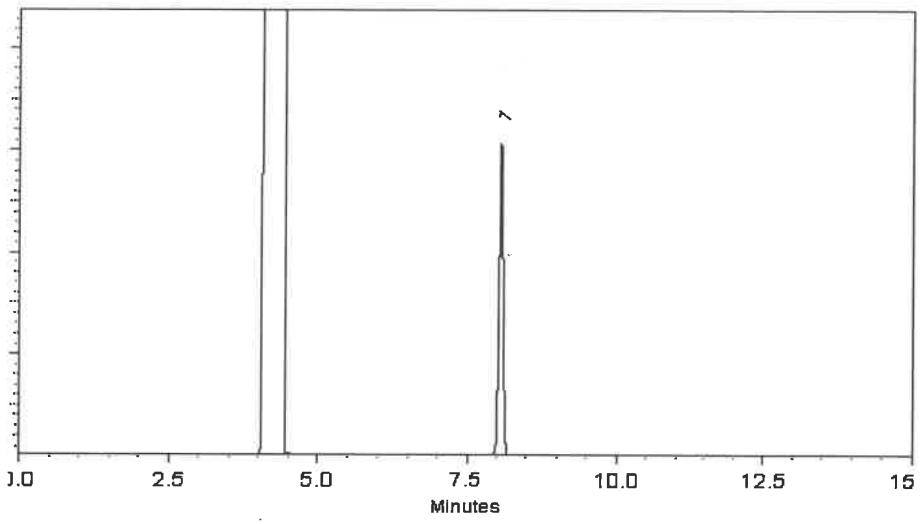
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

**Date Mixed:** 24-Dec-2024 **Balance Serial #** 1127510105

Dillan Murphy - Operations Technician I

**Date Passed:** 02-Jan-2025

REVIEWED

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Vinyl Rec 01/08/21

CERTIFIED REFERENCE MATERIAL

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

# Certificate of Analysis

*chromatographic*

V14803 - V14822

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555408-SL **Lot No.:** A0220471

**Description :** Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** June 30, 2026 **Storage:** -20°C or colder

**Handling:** This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Vinyl acetate | 108-05-4 | RD240423RSR | 99% | 8,066.0 µg/mL | +/- 278.7979 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

**Tech Tips:**

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

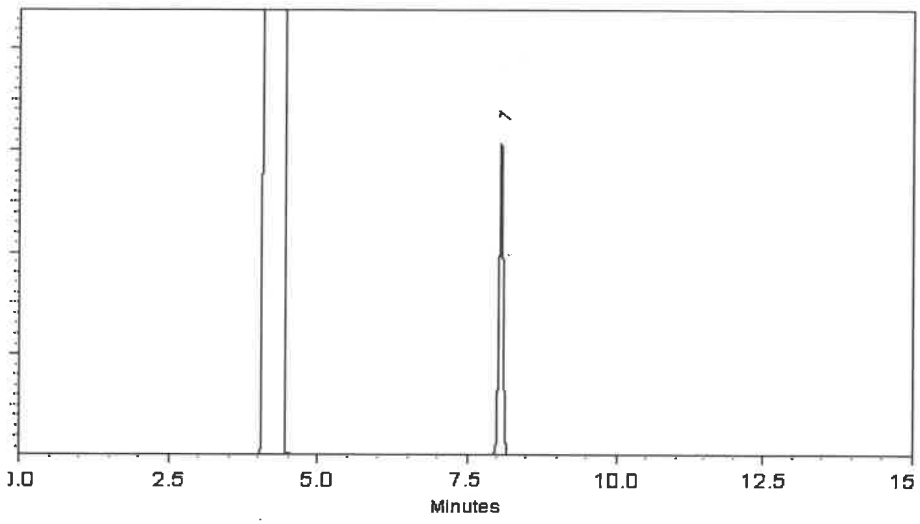
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

**Date Mixed:** 24-Dec-2024 **Balance Serial #** 1127510105

Dillan Murphy - Operations Technician I

**Date Passed:** 02-Jan-2025

REVIEWED

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

10 vial

# CERTIFIED REFERENCE MATERIAL

Rec 03/31/25

# Certificate of Analysis

***gravimetric***

V14904 to V14913

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555582 **Lot No.:** A0223904

**Description :** Custom 8260A/B Surrogate Mix

Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** March 31, 2028 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,2-Dichloroethane-d4 | 17060-07-0 | PR-33313 | 99% | 25,108.0 µg/mL | +/- 1,421.9957 |
| 2 | 1-Bromo-4-fluorobenzene (BFB) | 460-00-4 | 0000268853 | 99% | 25,108.0 µg/mL | +/- 1,421.9957 |
| 3 | Dibromofluoromethane | 1868-53-7 | VENKAT02 | 99% | 25,232.0 µg/mL | +/- 1,429.0184 |
| 4 | Toluene-d8 | 2037-26-5 | PR-34141 | 99% | 25,156.0 µg/mL | +/- 1,424.7141 |

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

Brittany Federinko - Operations Tech I

**Date Mixed:** 27-Mar-2025 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

# General Certified Reference Material Notes

## Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

## Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

## Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

## Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

## Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rec 05/09/25

avantor™ | J.T.Baker®

V14921 to
V14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($CH_3OH$) (by GC, corrected for water) | ≥ 99.9 % | 100.0 % |
| Residue after Evaporation | ≤ 1.0 ppm | 0.3 ppm |
| Titrable Acid (µeq/g) | ≤ 0.3 | 0.3 |
| Titrable Base (µeq/g) | ≤ 0.10 | 0.03 |
| Water (by KF, coulometric) | ≤ 0.08 % | < 0.01 % |
| Volatile Organic Trace Analysis - Below EPA 8260B CRQL | Conforms | Conforms |

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rec 05/09/25

avantor™ | J.T.Baker®

V14921 to
V14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($CH_3OH$) (by GC, corrected for water) | ≥ 99.9 % | 100.0 % |
| Residue after Evaporation | ≤ 1.0 ppm | 0.3 ppm |
| Titrable Acid (µeq/g) | ≤ 0.3 | 0.3 |
| Titrable Base (µeq/g) | ≤ 0.10 | 0.03 |
| Water (by KF, coulometric) | ≤ 0.08 % | < 0.01 % |
| Volatile Organic Trace Analysis – Below EPA 8260B CRQL | Conforms | Conforms |

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rec 05/09/25

avantor™ | J.T.Baker®

V14921 to
V14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($CH_3OH$) (by GC, corrected for water) | ≥ 99.9 % | 100.0 % |
| Residue after Evaporation | ≤ 1.0 ppm | 0.3 ppm |
| Titrable Acid (µeq/g) | ≤ 0.3 | 0.3 |
| Titrable Base (µeq/g) | ≤ 0.10 | 0.03 |
| Water (by KF, coulometric) | ≤ 0.08 % | < 0.01 % |
| Volatile Organic Trace Analysis – Below EPA 8260B CRQL | Conforms | Conforms |

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

Lee 05119125

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL
20 Vial

# Certificate of Analysis

*chromatographic plus*

J14951 to J14970

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30489 **Lot No.:** A0222076

**Description :** 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** August 31, 2026 **Storage:** -20°C or colder

**Handling:** This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Methyl acetate | 79-20-9 | SHBR1889 | 99% | 2,004.0 µg/mL | +/- 69.2674 |
| 2 | Vinyl acetate | 108-05-4 | RD240423RSR | 99% | 2,010.0 µg/mL | +/- 69.4748 |
| 3 | Ethyl acetate | 141-78-6 | SHBS3323 | 99% | 2,019.3 µg/mL | +/- 69.7974 |
| 4 | Isopropyl acetate | 108-21-4 | BCCG7069 | 99% | 2,008.0 µg/mL | +/- 69.4057 |
| 5 | Propyl acetate | 109-60-4 | P8XLN | 99% | 2,008.0 µg/mL | +/- 69.4057 |
| 6 | Butyl acetate | 123-86-4 | SHBR2024 | 99% | 2,008.0 µg/mL | +/- 69.4057 |
| 7 | Amyl acetate | 628-63-7 | BCBT7442 | 99% | 2,006.7 µg/mL | +/- 69.3596 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

**Tech Tips:**

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

Lee 05119125

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL
20 Vial

# Certificate of Analysis

***chromatographic plus***

VJ14951 to VJ14970

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30489 **Lot No.:** A0222076

**Description :** 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** August 31, 2026 **Storage:** -20°C or colder

**Handling:** This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Methyl acetate | 79-20-9 | SHBR1889 | 99% | 2,004.0 µg/mL | +/- 69.2674 |
| 2 | Vinyl acetate | 108-05-4 | RD240423RSR | 99% | 2,010.0 µg/mL | +/- 69.4748 |
| 3 | Ethyl acetate | 141-78-6 | SHBS3323 | 99% | 2,019.3 µg/mL | +/- 69.7974 |
| 4 | Isopropyl acetate | 108-21-4 | BCCG7069 | 99% | 2,008.0 µg/mL | +/- 69.4057 |
| 5 | Propyl acetate | 109-60-4 | P8XLN | 99% | 2,008.0 µg/mL | +/- 69.4057 |
| 6 | Butyl acetate | 123-86-4 | SHBR2024 | 99% | 2,008.0 µg/mL | +/- 69.4057 |
| 7 | Amyl acetate | 628-63-7 | BCBT7442 | 99% | 2,006.7 µg/mL | +/- 69.3596 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

**Tech Tips:**

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

Rec 09/16/25 5 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

**Part Number:** 91980
**Lot Number:** 091525
**Description:** Acrolein

**Solvent(s):** Water **Lot#** 041725Q

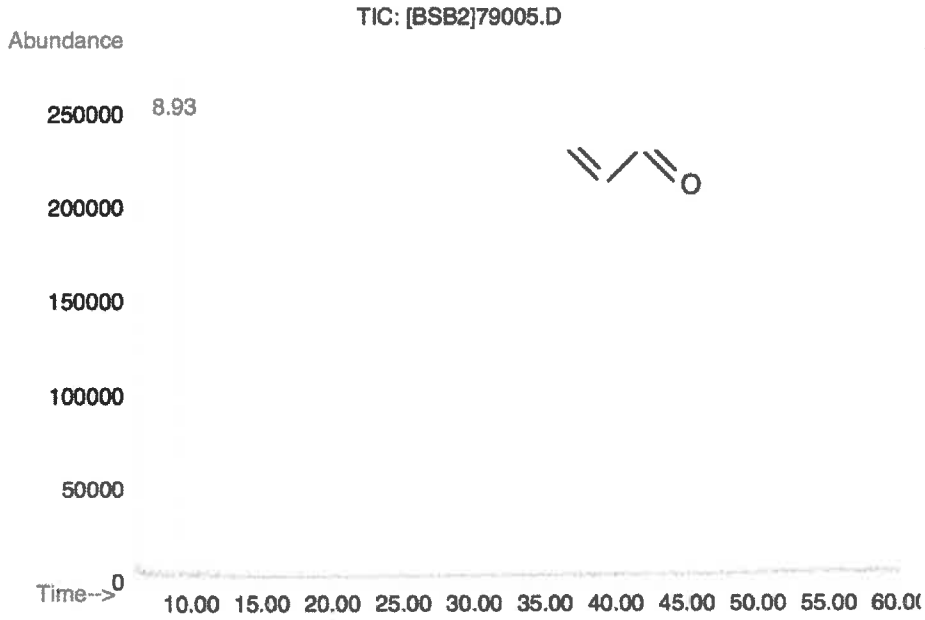
V15064 to V15068

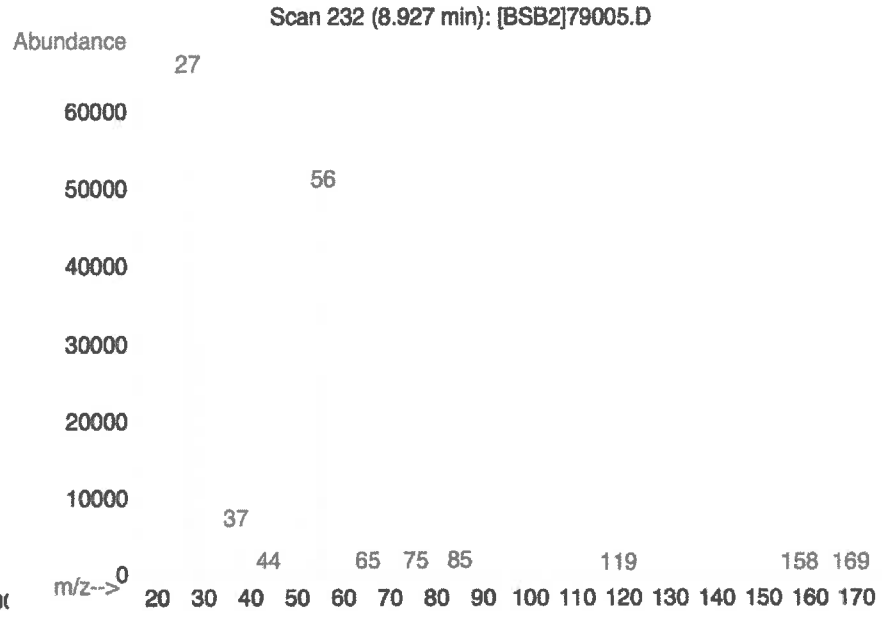
Expiration Date: 101525
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB 5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

| Formulated By: | Anthony Mahoney | 091525 DATE |
|---|---|---|
| Reviewed By: | Pedro L. Rentas | 091525 DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Acrolein | 5 | 103755V10F | 5000 | 97 | 0.5 | 0.05166 | 0.05176 | 5009.9 | 52.6 | 107-02-8 | 0.1 ppm | orl-rat 46mg/kg |

**Method:** GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C ( Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.




- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Rev 1.0, 2/25/2025

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

Rec 09/16/25 5 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

**Part Number:** 91980
**Lot Number:** 091525
**Description:** Acrolein

**Solvent(s):** Water **Lot#** 041725Q

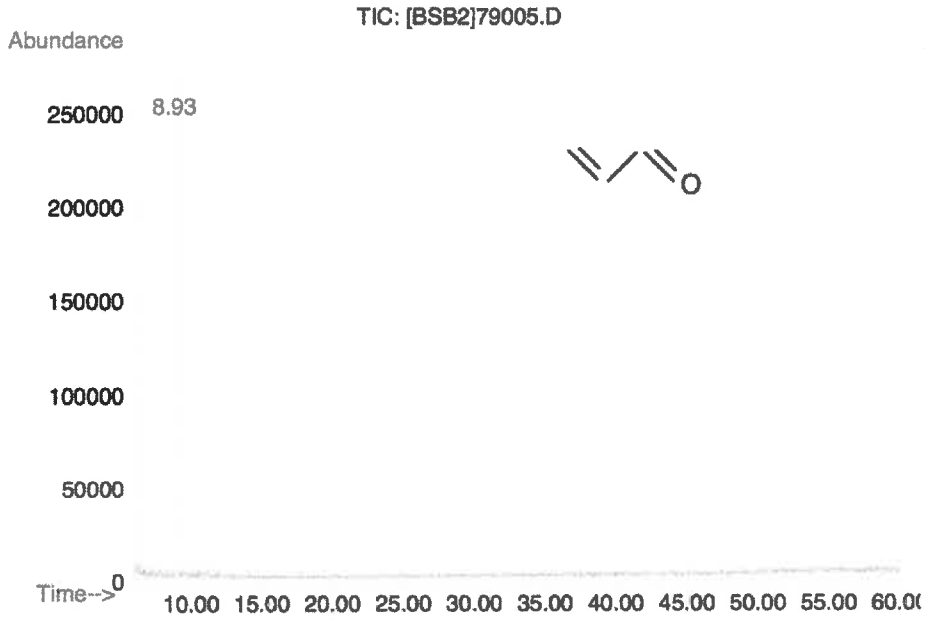
V15064 to V15068

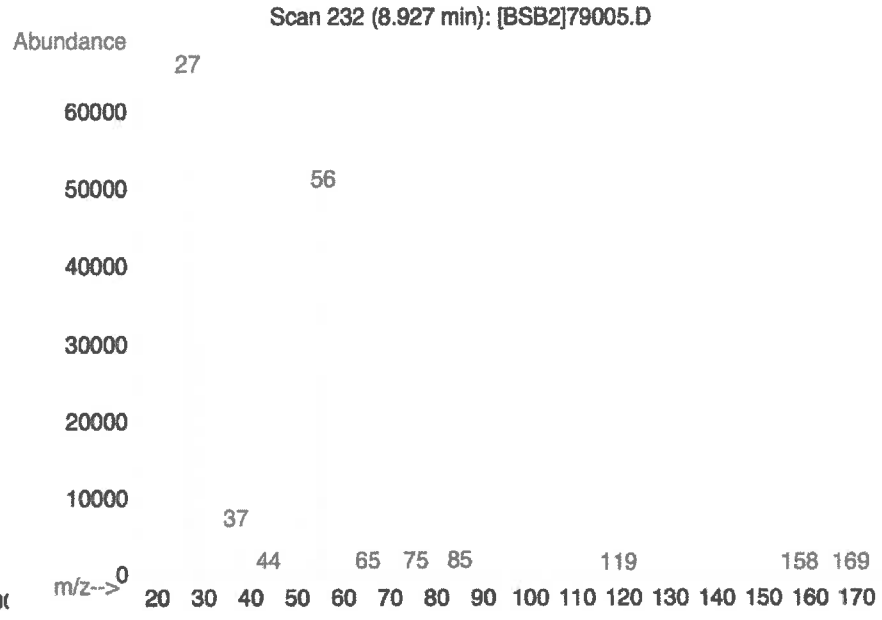
Expiration Date: 101525
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB 5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

| | |
|---|---|
| | 091525 |
| Formulated By: Anthony Mahoney | DATE |
| | 091525 |
| Reviewed By: Pedro L. Rentas | DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Acrolein | 5 | 103755V10F | 5000 | 97 | 0.5 | 0.05166 | 0.05176 | 5009.9 | 52.6 | 107-02-8 | 0.1 ppm | orl-rat 46mg/kg |

**Method:** GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C ( Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.




- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Rev 1.0, 2/25/2025

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

Rec 09/16/25 5 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

**Part Number:** 91980
**Lot Number:** 091525
**Description:** Acrolein

**Solvent(s):** Water **Lot#** 041725Q

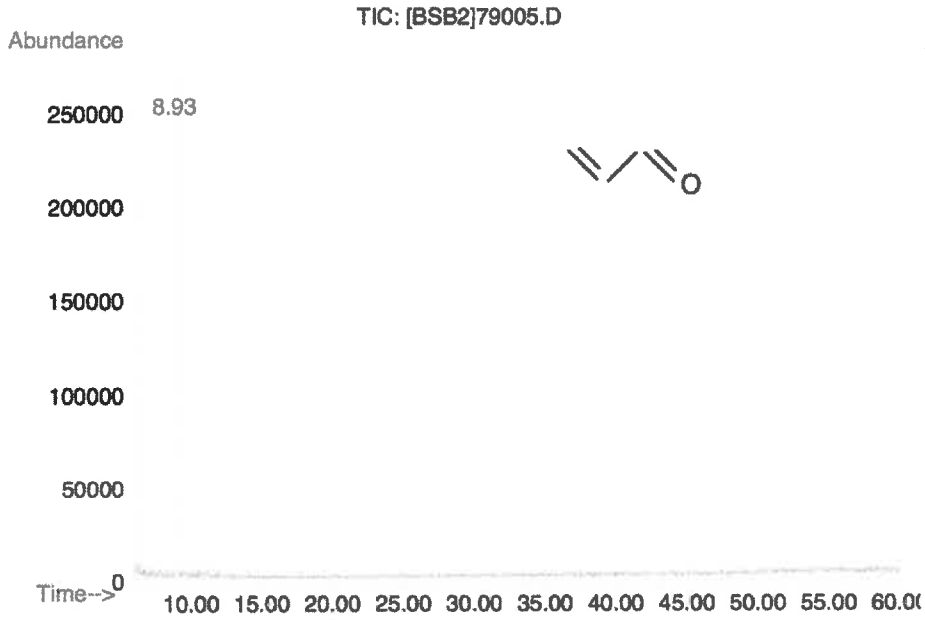
V15064 to V15068

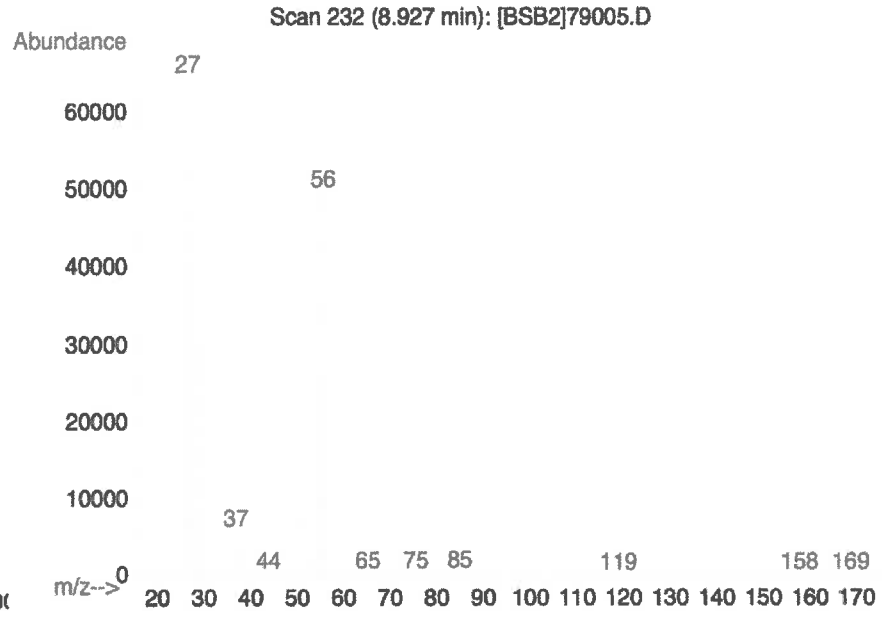
Expiration Date: 101525
Recommended Storage: Refrigerate (2°C to 8°C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB 5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

| | |
|---|---|
| | 091525 |
| Formulated By: Anthony Mahoney | DATE |
| | 091525 |
| Reviewed By: Pedro L. Rentas | DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Acrolein | 5 | 103755V10F | 5000 | 97 | 0.5 | 0.05166 | 0.05176 | 5009.9 | 52.6 | 107-02-8 | 0.1 ppm | orl-rat 46mg/kg |

**Method:** GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C ( Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately Long term storage is not recommended. Please contact our technical department if further information is required.




- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Rev 1.0, 2/25/2025

# SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 788-9222
www.chemtech.net

**CHAIN OF CUSTODY RECORD**

**Alliance Project Number:** Q 3195

**COC Number:** 01

| CLIENT INFORMATION | PROJECT INFORMATION | BILLING INFORMATION |
|---|---|---|
| COMPANY: TechLaw Consultants, Inc. | PROJECT NAME: REAC Commodore | BILL TO: See Contract for Billing Information |
| ADDRESS: 14840 Conference Center Drive | PROJECT #: 83150-F0066 LOCATION: Audubon, PA | ADDRESS: |
| CITY: Chantily STATE: VA ZIP: 20151 | PROJECT MANAGER: Jon Dziekan / Alex Kantner | CITY: STATE: ZIP: |
| ATTENTION: Jon Dziekan / Alex Kantner | E-MAIL: jonathan.dziekan@techlawconsultants.com | ATTENTION: PHONE: |
| PHONE: 571-538-2270 FAX: | PHONE: 571-538-2270 FAX: | |

**DATA TURNAROUND INFORMATION**

FAX:_____ DAYS*
HARD COPY:_____DAYS*
EDD_____DAYS*
* TO BE APPROVED BY ALLIANCE
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

**DATA DELIVERABLE INFORMATION**

- ☑ RESULTS ONLY
- ☐ RESULTS + QC
- ☐ New Jersey REDUCED
- ☐ New Jersey CLP
- ☑ USEPA CLP
- ☐ New York State ASP "B"
- ☐ New York State ASP "A"
- ☐ Other_____
- ☐ EDD Format_____

**ANALYSIS**

| 8260D | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

| CHEMTECH SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # of Bottles | PRESERVATIVES A | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | MOS-18-092225 | GW | | X | 9/22/2025 | 12:08 | 2 | 2 | | | | | | | | | | |
| 2. | MW-1-091725 | GW | | X | 9/17/2025 | 16:00 | 2 | 2 | | | | | | | | | | |
| 3. | MW-3-091525 | GW | | X | 9/15/2025 | 17:40 | 2 | 2 | | | | | | | | | | |
| 4. | MW-4-091625 | GW | | X | 9/16/2025 | 12:20 | 2 | 2 | | | | | | | | | | |
| 5. | MW-6-091625 | GW | | X | 9/16/2025 | 13:35 | 2 | 2 | | | | | | | | | | |
| 6. | MW-19D-092225 | GW | | X | 9/22/2025 | 17:05 | 2 | 2 | | | | | | | | | | |
| 7. | MW-19M-092325 | GW | | X | 9/23/2025 | 9:32 | 2 | 2 | | | | | | | | | | |
| 8. | MW-21M-091925 | GW | | X | 9/19/2025 | 16:25 | 2 | 2 | | | | | | | | | | |
| 9. | MW-22-091825 | GW | | X | 9/18/2025 | 18:30 | 2 | 2 | | | | | | | | | | |
| 10. | MW-23-092325 | GW | | X | 9/23/2025 | 13:25 | 2 | 2 | | | | | | | | | | |
| 11. | MW-24-091925 | GW | | X | 9/19/2025 | 16:10 | 2 | 2 | | | | | | | | | | |
| 12. | MW-26-091925 | GW | | X | 9/19/2025 | 11:18 | 2 | 2 | | | | | | | | | | |

<-- Specify Preservatives
A-HCl B-HNO3
C-H2SO4 D-NaOH
E-ICE F-Other

**SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSSESSION INCLUDING COURIER DELIVERY**

| RELINQUISHED BY SAMPLER | DATE/TIME | RECEIVED BY |
|---|---|---|
| 1. | 9/24/25 1700 | 1. |
| RELINQUISHED BY | DATE/TIME | RECEIVED BY |
| 2. | 9/25/25 945 | 2. |
| RELINQUISHED BY | DATE/TIME | RECEIVED FOR LAB BY |
| 3. | | 3. |

**Conditions of bottles or coolers at receipt:** ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 2.1 °C
MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Ice in Cooler? Yes
**Comments:**
IR Gun #1

Page 1 of 3

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☑ Overnight
ALLIANCE: ☐ Picked Up ☐ Overnight

**Shipment Complete** ☐ YES ☐ NO

WHITE - ALLIANCE COPYFOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 788-9222
www.chemtech.net

**CHAIN OF CUSTODY RECORD**

Alliance Project Number: Q3195

COC Number: 08

| CLIENT INFORMATION | PROJECT INFORMATION | BILLING INFORMATION |
|---|---|---|
| COMPANY: TechLaw Consultants, Inc. | PROJECT NAME: REAC Commodore | BILL TO: See Contract for Billing information |
| ADDRESS: 14840 Conference Center Drive | PROJECT #: 83150-F0066 LOCATION: Audubon, PA | ADDRESS: |
| CITY: Chantily STATE: VA ZIP: 20151 | PROJECT MANAGER: Jon Dziekan / Alex Kantner | CITY: STATE: ZIP: |
| ATTENTION: Jon Dziekan / Alex Kantner | E-MAIL: jonathan.dziekan@techlawconsultants.com | ATTENTION: PHONE: |
| PHONE: 571-538-2270 FAX: | PHONE: 571-538-2270 FAX: | |

**DATA TURNAROUND INFORMATION**

FAX:_____ DAYS*
HARD COPY:_____ DAYS*
EDD_____ DAYS*
* TO BE APPROVED BY ALLIANCE
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

**DATA DELIVERABLE INFORMATION**

- ☑ RESULTS ONLY
- ☐ RESULTS + QC
- ☐ New Jersey REDUCED
- ☐ New Jersey CLP
- ☑ USEPA CLP
- ☐ New York State ASP "B"
- ☐ New York State ASP "A"
- ☐ Other_____
- ☐ EDD Format_____

**ANALYSIS**

| | 8260D | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

| CHEMTECH SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # of Bottles | PRESERVATIVES A | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | MW-26-091925-FD | GW | | X | 9/19/2025 | 11:18 | 2 | 2 | | | | | | | | | | |
| 2. | MW-29-092325 | GW | | X | 9/23/2025 | 16:45 | 2 | 2 | | | | | | | | | | |
| 3. | MW-31S-091825 | GW | | X | 9/18/2025 | 14:20 | 2 | 2 | | | | | | | | | | |
| 4. | MW-31D-091825 | GW | | X | 9/18/2025 | 13:50 | 2 | 2 | | | | | | | | | | |
| 5. | MW-31D-091825-FD | GW | | X | 9/18/2025 | 13:50 | 2 | 2 | | | | | | | | | | |
| 6. | MW-32S-091725 | GW | | X | 9/17/2025 | 11:30 | 2 | 2 | | | | | | | | | | |
| 7. | MW-33D-091725 | GW | | X | 9/17/2025 | 9:30 | 2 | 2 | | | | | | | | | | |
| 8. | MW-33D-091725-MS | GW | | X | 9/17/2025 | 9:30 | 2 | 2 | | | | | | | | | | |
| 9. | MW-33D-091725-MSD | GW | | X | 9/17/2025 | 9:30 | 2 | 2 | | | | | | | | | | |
| 10. | RW-1-092425 | GW | | X | 9/24/2025 | 8:15 | 2 | 2 | | | | | | | | | | |
| 11. | EB-01-091925 | Equip Blank | | X | 9/19/2025 | 16:30 | 2 | 2 | | | | | | | | | | |
| 12. | EB-02-092225 | Equip Blank | | X | 9/22/2025 | 17:20 | 2 | 2 | | | | | | | | | | |

<-- Specify Preservatives
A-HCl B-HNO3
C-H2SO4 D-NaOH
E-ICE F-Other

**SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSSESSION INCLUDING COURIER DELIVERY**

| | RELINQUISHED BY SAMPLER | DATE/TIME | RECEIVED BY |
|---|---|---|---|
| 1. | | 9/25/25 1703 | 1. |
| 2. | RELINQUISHED BY | DATE/TIME 9/25/25 945 | RECEIVED BY 2. |
| 3. | RELINQUISHED BY | DATE/TIME | RECEIVED FOR LAB BY 3. |

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 2.1 °C
MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Ice in Cooler?: YES
Comments:

IR Gun # 1

Page 2 of 3

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☑ Overnight
ALLIANCE: ☐ Picked Up ☐ Overnight

Shipment Complete ☐ YES ☐ NO

WHITE - ALLIANCE COPYFOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 788-9222
www.chemtech.net

# CHAIN OF CUSTODY RECORD

Alliance Project Number: Q3195

COC Number: 03

## CLIENT INFORMATION

COMPANY: TechLaw Consultants, Inc.
ADDRESS: 14840 Conference Center Drive
CITY: Chantily STATE: VA ZIP: 20151
ATTENTION: Jon Dziekan / Alex Kantner
PHONE: 571-538-2270 FAX:

## PROJECT INFORMATION

PROJECT NAME: REAC Commodore
PROJECT #: 83150-F0066 LOCATION: Audubon, PA
PROJECT MANAGER: Jon Dziekan / Alex Kantner
E-MAIL: jonathan.dziekan@techlawconsultants.com
PHONE: 571-538-2270 FAX:

## BILLING INFORMATION

BILL TO: See Contract for Billing Information
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

## DATA TURNAROUND INFORMATION

FAX:_____ DAYS*
HARD COPY:_____DAYS*
EDD_____DAYS*
* TO BE APPROVED BY ALLIANCE
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

## DATA DELIVERABLE INFORMATION

☑ RESULTS ONLY ☑ USEPA CLP
☐ RESULTS + QC ☐ New York State ASP "B"
☐ New Jersey REDUCED ☐ New York State ASP "A"
☐ New Jersey CLP ☐ Other_____
☐ EDD Format_____

## ANALYSIS

| | 8260D | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

| CHEMTECH SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # of Bottles | PRESERVATIVES A | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | FB-01-091925 | Field Blank | | X | 9/19/2025 | 16:45 | 2 | 2 | | | | | | | | | | |
| 2. | FB-02-092225 | Field Blank | | X | 9/22/2025 | 17:10 | 2 | 2 | | | | | | | | | | |
| 3. | TB-01-091525 | Trip Blank | | X | 9/15/2025 | 14:50 | 2 | 2 | | | | | | | | | | |
| 4. | | | | | | | | | | | | | | | | | | |
| 5. | | | | | | | | | | | | | | | | | | |
| 6. | | | | | | | | | | | | | | | | | | |
| 7. | | | | | | | | | | | | | | | | | | |
| 8. | | | | | | | | | | | | | | | | | | |
| 9. | | | | | | | | | | | | | | | | | | |
| 10. | | | | | | | | | | | | | | | | | | |
| 11. | | | | | | | | | | | | | | | | | | |
| 12. | | | | | | | | | | | | | | | | | | |

<-- Specify Preservatives
A-HCl B-HNO3
C-H2SO4 D-NaOH
E-ICE F-Other

## SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSSESSION INCLUDING COURIER DELIVERY

| | RELINQUISHED BY SAMPLER | DATE/TIME | RECEIVED BY |
|---|---|---|---|
| 1. | | 9/24/25 1700 | 1. |
| 2. | RELINQUISHED BY | DATE/TIME 9/25/25 945 | RECEIVED BY 2. |
| 3. | RELINQUISHED BY | DATE/TIME | RECEIVED FOR LAB BY 3. |

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 2.1°C
MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Ice in Cooler?: YES
Comments:

IR Gun #1

Page 3 of 3

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☑ Overnight
ALLIANCE: ☐ Picked Up ☐ Overnight

Shipment Complete ☐ YES ☐ NO

WHITE - ALLIANCE COPYFOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

**From:** Burden, Jim <Jim.Burden@TechLawInc.com>
**Sent:** Thursday, October 30, 2025 11:33 AM
**To:** Jordan Hedvat <jordan.hedvat@alliancetg.com>
**Cc:** Dziekan, Jonathan <jonathan.dziekan@techlawconsultants.com>; Mazzuca, Carolyn <Carolyn.Mazzuca@TechLawInc.com>
**Subject:** Commodore - Level 4 package needed

EXTERNAL EMAIL - This email was sent by a person from outside your organization. Exercise caut... opening attachments or taking further action, before validating its authenticity.

Secured by Check Point

Jordan

Per our conversation, TechLaw needs the Level 4 report to complete validation fore this project and complete our client dleiverables.  Thank you for checking on it for me and please let me know if you need any further information.

Thanks,

Jim Burden

TechLaw Consultants, Inc.

571-202-1422 (work cell)

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

# Laboratory Certification

| Certified By | License No. |
|---|---|
| Connecticut | PH-0830 |
| DOD ELAP (ANAB) | L2219 |
| Maine | 2024021 |
| Maryland | 296 |
| New Hampshire | 255425 |
| New Jersey | 20012 |
| New York | 11376 |
| Pennsylvania | 68-00548 |
| Soil Permit | 525-24-234-08441 |
| Texas | TX-C25-00189 |
| Virginia | 460312 |

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

# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** Q3195 TECH05
**Client Name :** TechLaw Consultants, Inc
**Client Contact :** Jonathan Dziekan
**Invoice Name :** TechLaw Consultants, Inc
**Invoice Contact :** Jonathan Dziekan

**Order Date :** 9/25/2025 10:11:00 AM
**Project Name :** REAC Commodore
**Receive DateTime :** 9/25/2025 9:45:00 AM
**Purchase Order :**

**Project Mgr :** Deepak
**Report Type :** Level 2
**EDD Type :** Equis Region2(MEDD)
**Hard Copy Date :**
**Date Signoff :** 9/25/2025 11:57:46 AM

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|
| Q3195-01 | MOS-18-092225 | Water | 09/22/2025 | 12:08 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | | 10 Bus. Days |
| Q3195-02 | MW-1-091725 | Water | 09/17/2025 | 16:00 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | | 10 Bus. Days |
| Q3195-03 | MW-3-091525 | Water | 09/15/2025 | 17:40 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | | 10 Bus. Days |
| Q3195-04 | MW-4-091625 | Water | 09/16/2025 | 12:20 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | | 10 Bus. Days |
| Q3195-05 | MW-6-091625 | Water | 09/16/2025 | 13:35 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | | 10 Bus. Days |
| Q3195-06 | MW-19D-092225 | Water | 09/22/2025 | 17:05 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | | 10 Bus. Days |
| Q3195-07 | MW-19M-092325 | Water | 09/23/2025 | 09:32 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | | 10 Bus. Days |
| Q3195-08 | MW-21M-091925 | Water | 09/19/2025 | 16:25 | | | | | |

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

# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** Q3195 TECH05
**Client Name :** TechLaw Consultants, Inc
**Client Contact :** Jonathan Dziekan
**Invoice Name :** TechLaw Consultants, Inc
**Invoice Contact :** Jonathan Dziekan

**Order Date :** 9/25/2025 10:11:00 AM
**Project Name :** REAC Commodore
**Receive DateTime :** 9/25/2025 9:45:00 AM
**Purchase Order :**

**Project Mgr :** Deepak
**Report Type :** Level 2
**EDD Type :** Equis Region2(MEDD)
**Hard Copy Date :**
**Date Signoff :** 9/25/2025 11:57:46 AM

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | VOC-TCLVOA-10 | | 8260-Low | 10 Bus. Days | |
| Q3195-09 | MW-22-091825 | Water | 09/18/2025 | 18:30 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | 10 Bus. Days | |
| Q3195-10 | MW-23-092325 | Water | 09/23/2025 | 13:25 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | 10 Bus. Days | |
| Q3195-11 | MW-24-091925 | Water | 09/19/2025 | 16:10 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | 10 Bus. Days | |
| Q3195-12 | MW-26-091925 | Water | 09/19/2025 | 11:18 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | 10 Bus. Days | |
| Q3195-13 | MW-26-091925-FD | Water | 09/19/2025 | 11:18 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | 10 Bus. Days | |
| Q3195-14 | MW-29-092325 | Water | 09/23/2025 | 16:45 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | 10 Bus. Days | |
| Q3195-15 | MW-31S-091825 | Water | 09/18/2025 | 14:20 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | 10 Bus. Days | |

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

# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** Q3195 TECH05
**Client Name :** TechLaw Consultants, Inc
**Client Contact :** Jonathan Dziekan
**Invoice Name :** TechLaw Consultants, Inc
**Invoice Contact :** Jonathan Dziekan

**Order Date :** 9/25/2025 10:11:00 AM
**Project Name :** REAC Commodore
**Receive DateTime :** 9/25/2025 9:45:00 AM
**Purchase Order :**

**Project Mgr :** Deepak
**Report Type :** Level 2
**EDD Type :** Equis Region2(MEDD)
**Hard Copy Date :**
**Date Signoff :** 9/25/2025 11:57:46 AM

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|
| Q3195-16 | MW-31D-091825 | Water | 09/18/2025 | 13:50 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | 10 Bus. Days | |
| Q3195-17 | MW-31D-091825-FD | Water | 09/18/2025 | 13:50 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | 10 Bus. Days | |
| Q3195-18 | MW-32S-091725 | Water | 09/17/2025 | 11:30 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | 10 Bus. Days | |
| Q3195-19 | MW-33D-091725 | Water | 09/17/2025 | 09:30 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | 10 Bus. Days | |
| Q3195-20 | Q3195-19MS | Water | 09/17/2025 | 09:30 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | 10 Bus. Days | |
| Q3195-21 | Q3195-19MSD | Water | 09/17/2025 | 09:30 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | 10 Bus. Days | |
| Q3195-22 | RW-1-092425 | Water | 09/24/2025 | 08:15 | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | 10 Bus. Days | |
| Q3195-23 | EB-01-091925 | Water | 09/19/2025 | 16:30 | | | | | |

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

# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** Q3195 TECH05
**Client Name :** TechLaw Consultants, Inc
**Client Contact :** Jonathan Dziekan
**Invoice Name :** TechLaw Consultants, Inc
**Invoice Contact :** Jonathan Dziekan

**Order Date :** 9/25/2025 10:11:00 AM
**Project Name :** REAC Commodore
**Receive DateTime :** 9/25/2025 9:45:00 AM
**Purchase Order :**

**Project Mgr :**
**Report Type :** Level 2
**EDD Type :** Equis Region2(MEDD)
**Hard Copy Date :**
**Date Signoff :**

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | VOC-TCLVOA-10 | | 8260-Low | 10 Bus. Days | | |
| Q3195-24 | ~~EB-02-09225~~ EB-02-092225 | Water | 09/22/2025 | 17:20 | | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | 10 Bus. Days | | |
| Q3195-25 | FB-01-091925 | Water | 09/19/2025 | 16:45 | | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | 10 Bus. Days | | |
| Q3195-26 | FB-02-092225 | Water | 09/22/2025 | 17:10 | | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | 10 Bus. Days | | |
| Q3195-27 | TB-01-091525 | Water | 09/15/2025 | 14:50 | | | | | | |
| | | | | | VOC-TCLVOA-10 | | 8260-Low | 10 Bus. Days | | |

**Relinguished By :**
**Date / Time :** 9/25/25 1135

**Received By :**
**Date / Time :** 09/25/25 11:35 AM

**Storage Area :** **VOA Refridgerator Room**